Pantheon Report

Data path: GCE London Ethernet (remote) → GCE Sydney Ethernet (local).
Repeated the test of 16 congestion control schemes 10 times.
Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).
NTP offsets were measured against time.google.com and have been applied to correct the timestamps in logs.

Git summary:
branch: master @ 227fdf9a3757f17b88537cceed5743a33037a3d2
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436bbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4a9d58d38dc4dfe0edcbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55f8c872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb2fd974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3ceff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3b8b2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ c838669682f0c19f6baf92afc9a596a406d48c1f
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9d3e4735770d143a1fa2851
test from GCE London to GCE Sydney, 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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</thead>
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<tr>
<td></td>
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<td>flow 1</td>
<td>flow 2</td>
<td>flow 3</td>
</tr>
<tr>
<td>TCP BBR</td>
<td>10</td>
<td>75.71</td>
<td>74.05</td>
<td>66.44</td>
</tr>
<tr>
<td>Copa</td>
<td>10</td>
<td>159.72</td>
<td>120.21</td>
<td>98.42</td>
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<tr>
<td>TCP Cubic</td>
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<td>62.28</td>
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<td>636.29</td>
<td>619.50</td>
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<td>4.79</td>
<td>2.67</td>
<td>1.28</td>
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<tr>
<td>LEDBAT</td>
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<td>150.08</td>
<td>140.18</td>
<td>140.16</td>
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<td>PCC-Allegro</td>
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<td>479.86</td>
<td>100.73</td>
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<td>PCC-Expr</td>
<td>10</td>
<td>298.97</td>
<td>172.46</td>
<td>63.07</td>
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<td>QUIC Cubic</td>
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<td>58.09</td>
<td>54.20</td>
<td>35.79</td>
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<td>SCReAM</td>
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<td>0.22</td>
<td>0.22</td>
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<tr>
<td>Sprout</td>
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<td>0.16</td>
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<td>TaoVA-100x</td>
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<td>83.28</td>
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<td>34.37</td>
<td>53.60</td>
<td>33.63</td>
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<tr>
<td>Verus</td>
<td>10</td>
<td>166.07</td>
<td>88.53</td>
<td>72.69</td>
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<tr>
<td>PCC-Vivace</td>
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<td>302.51</td>
<td>219.40</td>
<td>120.26</td>
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<tr>
<td>WebRTC media</td>
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<td>1.80</td>
<td>1.10</td>
<td>0.37</td>
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</table>
Run 1: Statistics of TCP BBR

Start at: 2018-06-06 17:46:58
End at: 2018-06-06 17:47:28
Local clock offset: 0.439 ms
Remote clock offset: 0.261 ms

# Below is generated by plot.py at 2018-06-06 21:55:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 153.00 Mbit/s
95th percentile per-packet one-way delay: 137.428 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 79.99 Mbit/s
95th percentile per-packet one-way delay: 136.643 ms
Loss rate: 0.87%
-- Flow 2:
Average throughput: 76.24 Mbit/s
95th percentile per-packet one-way delay: 137.487 ms
Loss rate: 1.39%
-- Flow 3:
Average throughput: 69.21 Mbit/s
95th percentile per-packet one-way delay: 138.491 ms
Loss rate: 3.54%
Run 1: Report of TCP BBR — Data Link
Run 2: Statistics of TCP BBR

Start at: 2018-06-06 18:11:58
End at: 2018-06-06 18:12:28
Local clock offset: -0.033 ms
Remote clock offset: -0.318 ms

# Below is generated by plot.py at 2018-06-06 21:55:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 141.87 Mbit/s
95th percentile per-packet one-way delay: 135.914 ms
Loss rate: 1.52%
-- Flow 1:
Average throughput: 73.80 Mbit/s
95th percentile per-packet one-way delay: 135.961 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 70.72 Mbit/s
95th percentile per-packet one-way delay: 135.150 ms
Loss rate: 1.51%
-- Flow 3:
Average throughput: 64.84 Mbit/s
95th percentile per-packet one-way delay: 135.193 ms
Loss rate: 3.33%
Run 2: Report of TCP BBR — Data Link

[Graph showing throughput and packet loss over time for different flows with annotations for mean throughput and 95th percentile delay.]
Run 3: Statistics of TCP BBR

Start at: 2018-06-06 18:36:41
End at: 2018-06-06 18:37:11
Local clock offset: -0.425 ms
Remote clock offset: -0.053 ms

# Below is generated by plot.py at 2018-06-06 21:55:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 149.99 Mbit/s
95th percentile per-packet one-way delay: 135.615 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 80.95 Mbit/s
95th percentile per-packet one-way delay: 135.635 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 70.25 Mbit/s
95th percentile per-packet one-way delay: 135.567 ms
Loss rate: 1.53%
-- Flow 3:
Average throughput: 69.12 Mbit/s
95th percentile per-packet one-way delay: 135.611 ms
Loss rate: 3.54%
Run 3: Report of TCP BBR — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 80.94 Mbps)
Flow 1 egress (mean 80.95 Mbps)
Flow 2 ingress (mean 70.37 Mbps)
Flow 2 egress (mean 70.25 Mbps)
Flow 3 ingress (mean 69.65 Mbps)
Flow 3 egress (mean 69.12 Mbps)

Per-packet one-way delay (ms)

Flow 1 (95th percentile 135.63 ms)
Flow 2 (95th percentile 135.57 ms)
Flow 3 (95th percentile 135.61 ms)
Run 4: Statistics of TCP BBR

Start at: 2018-06-06 19:01:43
End at: 2018-06-06 19:02:13
Local clock offset: -0.106 ms
Remote clock offset: -0.628 ms

# Below is generated by plot.py at 2018-06-06 21:55:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 148.14 Mbit/s
95th percentile per-packet one-way delay: 136.925 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 76.21 Mbit/s
95th percentile per-packet one-way delay: 136.825 ms
Loss rate: 0.94%
-- Flow 2:
Average throughput: 76.34 Mbit/s
95th percentile per-packet one-way delay: 136.991 ms
Loss rate: 1.57%
-- Flow 3:
Average throughput: 65.66 Mbit/s
95th percentile per-packet one-way delay: 136.963 ms
Loss rate: 3.32%
Run 4: Report of TCP BBR — Data Link

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

- Flow 1 ingress (mean 76.22 Mbit/s)
- Flow 1 egress (mean 76.21 Mbit/s)
- Flow 2 ingress (mean 76.43 Mbit/s)
- Flow 2 egress (mean 76.34 Mbit/s)
- Flow 3 ingress (mean 66.06 Mbit/s)
- Flow 3 egress (mean 65.66 Mbit/s)

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

- Flow 1 (95th percentile 136.82 ms)
- Flow 2 (95th percentile 136.99 ms)
- Flow 3 (95th percentile 136.96 ms)
Run 5: Statistics of TCP BBR

Start at: 2018-06-06 19:26:45
End at: 2018-06-06 19:27:15
Local clock offset: ~0.719 ms
Remote clock offset: 0.354 ms

# Below is generated by plot.py at 2018-06-06 21:55:01
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 145.36 Mbit/s
  95th percentile per-packet one-way delay: 136.204 ms
  Loss rate: 1.54%
  -- Flow 1:
  Average throughput: 73.53 Mbit/s
  95th percentile per-packet one-way delay: 136.077 ms
  Loss rate: 0.98%
  -- Flow 2:
  Average throughput: 74.47 Mbit/s
  95th percentile per-packet one-way delay: 136.253 ms
  Loss rate: 1.45%
  -- Flow 3:
  Average throughput: 69.23 Mbit/s
  95th percentile per-packet one-way delay: 136.431 ms
  Loss rate: 3.54%
Run 5: Report of TCP BBR — Data Link

![Throughput Graph](image1)

- Flow 1 ingress (mean 73.58 Mbit/s)
- Flow 1 egress (mean 73.53 Mbit/s)
- Flow 2 ingress (mean 74.53 Mbit/s)
- Flow 2 egress (mean 74.47 Mbit/s)
- Flow 3 ingress (mean 69.77 Mbit/s)
- Flow 3 egress (mean 69.23 Mbit/s)

![Packet Delay Graph](image2)

- Flow 1 (95th percentile 136.08 ms)
- Flow 2 (95th percentile 136.25 ms)
- Flow 3 (95th percentile 136.43 ms)
Run 6: Statistics of TCP BBR

Start at: 2018-06-06 19:51:56
End at: 2018-06-06 19:52:26
Local clock offset: -0.674 ms
Remote clock offset: 0.054 ms

# Below is generated by plot.py at 2018-06-06 21:55:01
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 146.43 Mbit/s
  95th percentile per-packet one-way delay: 136.615 ms
  Loss rate: 1.52%
-- Flow 1:
  Average throughput: 76.71 Mbit/s
  95th percentile per-packet one-way delay: 136.661 ms
  Loss rate: 0.93%
-- Flow 2:
  Average throughput: 71.29 Mbit/s
  95th percentile per-packet one-way delay: 136.187 ms
  Loss rate: 1.50%
-- Flow 3:
  Average throughput: 69.28 Mbit/s
  95th percentile per-packet one-way delay: 136.335 ms
  Loss rate: 3.54%
Run 6: Report of TCP BBR — Data Link
Run 7: Statistics of TCP BBR

Start at: 2018-06-06 20:16:56
End at: 2018-06-06 20:17:26
Local clock offset: -0.884 ms
Remote clock offset: 0.118 ms

# Below is generated by plot.py at 2018-06-06 21:55:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 145.34 Mbit/s
95th percentile per-packet one-way delay: 135.925 ms
Loss rate: 1.47%
-- Flow 1:
Average throughput: 74.29 Mbit/s
95th percentile per-packet one-way delay: 135.858 ms
Loss rate: 0.96%
-- Flow 2:
Average throughput: 75.53 Mbit/s
95th percentile per-packet one-way delay: 135.994 ms
Loss rate: 1.41%
-- Flow 3:
Average throughput: 64.22 Mbit/s
95th percentile per-packet one-way delay: 135.865 ms
Loss rate: 3.37%
Run 7: Report of TCP BBR — Data Link

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

Legend:
- **Blue dashed line** with 'Flow 1 ingress (mean 74.33 Mbit/s)'
- **Blue solid line** with 'Flow 1 egress (mean 74.29 Mbit/s)'
- **Green dashed line** with 'Flow 2 ingress (mean 75.57 Mbit/s)'
- **Green solid line** with 'Flow 2 egress (mean 75.53 Mbit/s)'
- **Red dashed line** with 'Flow 3 ingress (mean 64.62 Mbit/s)'
- **Red solid line** with 'Flow 3 egress (mean 64.22 Mbit/s)'

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

Legend:
- **Blue circle** with 'Flow 1 (95th percentile 135.96 ms)'
- **Green circle** with 'Flow 2 (95th percentile 135.99 ms)'
- **Red circle** with 'Flow 3 (95th percentile 135.87 ms)'

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Run 8: Statistics of TCP BBR

Start at: 2018-06-06 20:41:49
End at: 2018-06-06 20:42:19
Local clock offset: 0.558 ms
Remote clock offset: 0.334 ms

# Below is generated by plot.py at 2018-06-06 21:55:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 144.23 Mbit/s
95th percentile per-packet one-way delay: 135.695 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 73.60 Mbit/s
95th percentile per-packet one-way delay: 135.664 ms
Loss rate: 0.96%
-- Flow 2:
Average throughput: 74.93 Mbit/s
95th percentile per-packet one-way delay: 135.724 ms
Loss rate: 1.48%
-- Flow 3:
Average throughput: 64.24 Mbit/s
95th percentile per-packet one-way delay: 135.717 ms
Loss rate: 3.30%
Run 8: Report of TCP BBR — Data Link
Run 9: Statistics of TCP BBR

Start at: 2018-06-06 21:06:57
End at: 2018-06-06 21:07:27
Local clock offset: 0.229 ms
Remote clock offset: 0.343 ms

# Below is generated by plot.py at 2018-06-06 21:56:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 145.69 Mbit/s
95th percentile per-packet one-way delay: 136.020 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 74.82 Mbit/s
95th percentile per-packet one-way delay: 135.942 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 75.62 Mbit/s
95th percentile per-packet one-way delay: 136.079 ms
Loss rate: 1.39%
-- Flow 3:
Average throughput: 64.41 Mbit/s
95th percentile per-packet one-way delay: 136.057 ms
Loss rate: 3.29%
Run 9: Report of TCP BBR — Data Link

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

- Flow 1 ingress (mean 74.19 Mbit/s)
- Flow 1 egress (mean 74.82 Mbit/s)
- Flow 2 ingress (mean 75.64 Mbit/s)
- Flow 2 egress (mean 75.62 Mbit/s)
- Flow 3 ingress (mean 64.78 Mbit/s)
- Flow 3 egress (mean 64.41 Mbit/s)
Run 10: Statistics of TCP BBR

Start at: 2018-06-06 21:31:37
End at: 2018-06-06 21:32:07
Local clock offset: -0.225 ms
Remote clock offset: 0.324 ms

# Below is generated by plot.py at 2018-06-06 21:56:53
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 143.94 Mbit/s
  95th percentile per-packet one-way delay: 135.570 ms
  Loss rate: 1.48%
-- Flow 1:
  Average throughput: 73.21 Mbit/s
  95th percentile per-packet one-way delay: 135.481 ms
  Loss rate: 0.98%
-- Flow 2:
  Average throughput: 75.08 Mbit/s
  95th percentile per-packet one-way delay: 135.629 ms
  Loss rate: 1.43%
-- Flow 3:
  Average throughput: 64.21 Mbit/s
  95th percentile per-packet one-way delay: 135.615 ms
  Loss rate: 3.31%
Run 10: Report of TCP BBR — Data Link
Run 1: Statistics of Copa

Start at: 2018-06-06 17:48:22
End at: 2018-06-06 17:48:52
Local clock offset: 0.397 ms
Remote clock offset: -0.493 ms

# Below is generated by plot.py at 2018-06-06 22:03:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 278.17 Mbit/s
95th percentile per-packet one-way delay: 142.425 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 159.56 Mbit/s
95th percentile per-packet one-way delay: 147.743 ms
Loss rate: 1.02%
-- Flow 2:
Average throughput: 121.68 Mbit/s
95th percentile per-packet one-way delay: 137.885 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 116.24 Mbit/s
95th percentile per-packet one-way delay: 140.644 ms
Loss rate: 4.45%
Run 1: Report of Copa — Data Link

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

- **Flow 1 ingress (mean 159.75 Mbit/s)**
- **Flow 1 egress (mean 159.56 Mbit/s)**
- **Flow 2 ingress (mean 121.26 Mbit/s)**
- **Flow 2 egress (mean 121.68 Mbit/s)**
- **Flow 3 ingress (mean 118.32 Mbit/s)**
- **Flow 3 egress (mean 116.24 Mbit/s)**

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

- **Flow 1 (95th percentile 147.74 ms)**
- **Flow 2 (95th percentile 137.88 ms)**
- **Flow 3 (95th percentile 140.64 ms)**
Run 2: Statistics of Copa

Start at: 2018-06-06 18:13:22
End at: 2018-06-06 18:13:52
Local clock offset: 0.159 ms
Remote clock offset: 0.073 ms

# Below is generated by plot.py at 2018-06-06 22:03:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 285.39 Mbit/s
95th percentile per-packet one-way delay: 159.442 ms
Loss rate: 1.59%
-- Flow 1:
Average throughput: 184.98 Mbit/s
95th percentile per-packet one-way delay: 166.426 ms
Loss rate: 1.95%
-- Flow 2:
Average throughput: 109.01 Mbit/s
95th percentile per-packet one-way delay: 159.948 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 87.08 Mbit/s
95th percentile per-packet one-way delay: 143.543 ms
Loss rate: 2.40%
Run 2: Report of Copa — Data Link
Run 3: Statistics of Copa

Start at: 2018-06-06 18:38:05
End at: 2018-06-06 18:38:35
Local clock offset: -0.573 ms
Remote clock offset: -0.484 ms

# Below is generated by plot.py at 2018-06-06 22:03:27
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 224.06 Mbit/s
  95th percentile per-packet one-way delay: 141.997 ms
  Loss rate: 0.66%
-- Flow 1:
  Average throughput: 117.76 Mbit/s
  95th percentile per-packet one-way delay: 141.669 ms
  Loss rate: 0.73%
-- Flow 2:
  Average throughput: 81.23 Mbit/s
  95th percentile per-packet one-way delay: 137.641 ms
  Loss rate: 1.13%
-- Flow 3:
  Average throughput: 180.56 Mbit/s
  95th percentile per-packet one-way delay: 147.179 ms
  Loss rate: 0.00%
Run 3: Report of Copa — Data Link
Run 4: Statistics of Copa

Start at: 2018-06-06 19:03:08
End at: 2018-06-06 19:03:38
Local clock offset: -0.419 ms
Remote clock offset: -0.244 ms

# Below is generated by plot.py at 2018-06-06 22:03:27
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 268.69 Mbit/s
  95th percentile per-packet one-way delay: 145.405 ms
  Loss rate: 1.37%
-- Flow 1:
  Average throughput: 172.58 Mbit/s
  95th percentile per-packet one-way delay: 143.904 ms
  Loss rate: 1.08%
-- Flow 2:
  Average throughput: 125.58 Mbit/s
  95th percentile per-packet one-way delay: 145.145 ms
  Loss rate: 0.63%
-- Flow 3:
  Average throughput: 40.10 Mbit/s
  95th percentile per-packet one-way delay: 171.584 ms
  Loss rate: 9.30%
Run 4: Report of Copa — Data Link
Run 5: Statistics of Copa

Start at: 2018-06-06 19:28:10
End at: 2018-06-06 19:28:40
Local clock offset: -0.804 ms
Remote clock offset: 0.399 ms

# Below is generated by plot.py at 2018-06-06 22:03:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 234.41 Mbit/s
95th percentile per-packet one-way delay: 143.844 ms
Loss rate: 1.67%
-- Flow 1:
Average throughput: 149.49 Mbit/s
95th percentile per-packet one-way delay: 144.774 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 66.96 Mbit/s
95th percentile per-packet one-way delay: 136.496 ms
Loss rate: 2.62%
-- Flow 3:
Average throughput: 124.45 Mbit/s
95th percentile per-packet one-way delay: 144.687 ms
Loss rate: 4.71%
Run 5: Report of Copa — Data Link

![Run 5: Report of Copa — Data Link](image)

- Flow 1 ingress (mean 148.92 Mbit/s)  
- Flow 1 egress (mean 149.49 Mbit/s)  
- Flow 2 ingress (mean 67.63 Mbit/s)  
- Flow 2 egress (mean 66.96 Mbit/s)  
- Flow 3 ingress (mean 127.04 Mbit/s)  
- Flow 3 egress (mean 124.45 Mbit/s)

![Run 5: Report of Copa — Data Link](image)

- Flow 1 (95th percentile 144.77 ms)  
- Flow 2 (95th percentile 136.50 ms)  
- Flow 3 (95th percentile 144.69 ms)
Run 6: Statistics of Copa

Start at: 2018-06-06 19:53:20
End at: 2018-06-06 19:53:50
Local clock offset: -0.807 ms
Remote clock offset: 0.088 ms

# Below is generated by plot.py at 2018-06-06 22:03:27
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 278.32 Mbit/s
  95th percentile per-packet one-way delay: 157.473 ms
  Loss rate: 0.89%
-- Flow 1:
  Average throughput: 166.23 Mbit/s
  95th percentile per-packet one-way delay: 156.781 ms
  Loss rate: 0.47%
-- Flow 2:
  Average throughput: 110.46 Mbit/s
  95th percentile per-packet one-way delay: 150.413 ms
  Loss rate: 0.69%
-- Flow 3:
  Average throughput: 119.67 Mbit/s
  95th percentile per-packet one-way delay: 178.516 ms
  Loss rate: 2.99%
Run 6: Report of Copa — Data Link

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

- Flow 1 ingress (mean 165.50 Mbit/s)
- Flow 1 egress (mean 166.23 Mbit/s)
- Flow 2 ingress (mean 109.72 Mbit/s)
- Flow 2 egress (mean 110.46 Mbit/s)
- Flow 3 ingress (mean 121.89 Mbit/s)
- Flow 3 egress (mean 119.67 Mbit/s)
Run 7: Statistics of Copa

Start at: 2018-06-06 20:18:20
End at: 2018-06-06 20:18:50
Local clock offset: -0.619 ms
Remote clock offset: 0.455 ms

# Below is generated by plot.py at 2018-06-06 22:07:10
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 306.37 Mbit/s
  95th percentile per-packet one-way delay: 195.586 ms
  Loss rate: 0.88%
-- Flow 1:
  Average throughput: 201.34 Mbit/s
  95th percentile per-packet one-way delay: 200.638 ms
  Loss rate: 0.17%
-- Flow 2:
  Average throughput: 115.18 Mbit/s
  95th percentile per-packet one-way delay: 151.012 ms
  Loss rate: 1.13%
-- Flow 3:
  Average throughput: 87.92 Mbit/s
  95th percentile per-packet one-way delay: 162.922 ms
  Loss rate: 4.99%
Run 7: Report of Copa — Data Link

![Graph showing network performance metrics over time]

**Throughput (Mbps)**

- Flow 1 ingress (mean 199.85 Mbps)
- Flow 1 egress (mean 201.34 Mbps)
- Flow 2 ingress (mean 114.91 Mbps)
- Flow 2 egress (mean 115.18 Mbps)
- Flow 3 ingress (mean 90.09 Mbps)
- Flow 3 egress (mean 87.92 Mbps)

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

- Flow 1 (95th percentile 200.64 ms)
- Flow 2 (95th percentile 151.01 ms)
- Flow 3 (95th percentile 162.92 ms)
Run 8: Statistics of Copa

Start at: 2018-06-06 20:43:13
End at: 2018-06-06 20:43:43
Local clock offset: 0.62 ms
Remote clock offset: 0.337 ms

# Below is generated by plot.py at 2018-06-06 22:07:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 311.23 Mbit/s
95th percentile per-packet one-way delay: 151.285 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 162.66 Mbit/s
95th percentile per-packet one-way delay: 144.738 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 190.28 Mbit/s
95th percentile per-packet one-way delay: 158.656 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 68.77 Mbit/s
95th percentile per-packet one-way delay: 147.081 ms
Loss rate: 4.72%
Run 8: Report of Copa — Data Link

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

- Flow 1 ingress (mean 162.27 Mbit/s)
- Flow 1 egress (mean 162.66 Mbit/s)
- Flow 2 ingress (mean 189.50 Mbit/s)
- Flow 2 egress (mean 190.28 Mbit/s)
- Flow 3 ingress (mean 70.23 Mbit/s)
- Flow 3 egress (mean 68.77 Mbit/s)

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

- Flow 1 (95th percentile 144.74 ms)
- Flow 2 (95th percentile 158.66 ms)
- Flow 3 (95th percentile 147.08 ms)
Run 9: Statistics of Copa

Start at: 2018-06-06 21:08:21
End at: 2018-06-06 21:08:51
Local clock offset: -0.054 ms
Remote clock offset: -0.059 ms

# Below is generated by plot.py at 2018-06-06 22:08:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 213.39 Mbit/s
95th percentile per-packet one-way delay: 145.067 ms
Loss rate: 1.60%
-- Flow 1:
Average throughput: 98.79 Mbit/s
95th percentile per-packet one-way delay: 142.321 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 154.87 Mbit/s
95th percentile per-packet one-way delay: 144.754 ms
Loss rate: 1.77%
-- Flow 3:
Average throughput: 36.53 Mbit/s
95th percentile per-packet one-way delay: 156.855 ms
Loss rate: 7.38%
Run 9: Report of Copa — Data Link
Run 10: Statistics of Copa

Start at: 2018-06-06 21:33:01
End at: 2018-06-06 21:33:31
Local clock offset: -0.216 ms
Remote clock offset: -0.021 ms

# Below is generated by plot.py at 2018-06-06 22:11:57
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 307.87 Mbit/s
  95th percentile per-packet one-way delay: 150.846 ms
  Loss rate: 0.41%
-- Flow 1:
  Average throughput: 183.79 Mbit/s
  95th percentile per-packet one-way delay: 150.248 ms
  Loss rate: 0.17%
-- Flow 2:
  Average throughput: 126.89 Mbit/s
  95th percentile per-packet one-way delay: 146.145 ms
  Loss rate: 0.37%
-- Flow 3:
  Average throughput: 122.84 Mbit/s
  95th percentile per-packet one-way delay: 155.803 ms
  Loss rate: 1.62%
Run 10: Report of Copa — Data Link
Run 1: Statistics of TCP Cubic

Start at: 2018-06-06 17:38:27
End at: 2018-06-06 17:38:57
Local clock offset: 0.524 ms
Remote clock offset: 0.418 ms

# Below is generated by plot.py at 2018-06-06 22:11:57
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 100.69 Mbit/s
  95th percentile per-packet one-way delay: 139.446 ms
  Loss rate: 1.76%
-- Flow 1:
  Average throughput: 59.64 Mbit/s
  95th percentile per-packet one-way delay: 139.893 ms
  Loss rate: 1.35%
-- Flow 2:
  Average throughput: 44.84 Mbit/s
  95th percentile per-packet one-way delay: 137.281 ms
  Loss rate: 1.84%
-- Flow 3:
  Average throughput: 35.67 Mbit/s
  95th percentile per-packet one-way delay: 140.009 ms
  Loss rate: 3.58%
Run 1: Report of TCP Cubic — Data Link

![Graph 1: Throughput vs Time]

- Flow 1 ingress (mean 59.91 Mbit/s)
- Flow 1 egress (mean 59.64 Mbit/s)
- Flow 2 ingress (mean 45.06 Mbit/s)
- Flow 2 egress (mean 44.81 Mbit/s)
- Flow 3 ingress (mean 35.99 Mbit/s)
- Flow 3 egress (mean 35.67 Mbit/s)

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

- Flow 1 (95th percentile 139.99 ms)
- Flow 2 (95th percentile 137.28 ms)
- Flow 3 (95th percentile 140.01 ms)
Run 2: Statistics of TCP Cubic

Start at: 2018-06-06 18:03:12
End at: 2018-06-06 18:03:42
Local clock offset: 0.324 ms
Remote clock offset: -0.245 ms

# Below is generated by plot.py at 2018-06-06 22:11:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 125.16 Mbit/s
95th percentile per-packet one-way delay: 142.712 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 84.65 Mbit/s
95th percentile per-packet one-way delay: 143.311 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 44.35 Mbit/s
95th percentile per-packet one-way delay: 141.555 ms
Loss rate: 1.84%
-- Flow 3:
Average throughput: 35.63 Mbit/s
95th percentile per-packet one-way delay: 139.671 ms
Loss rate: 3.43%
Run 2: Report of TCP Cubic — Data Link

![Throughput vs Time Graph](image1)

- Flow 1 ingress (mean 84.72 Mbit/s)
- Flow 1 egress (mean 84.65 Mbit/s)
- Flow 2 ingress (mean 44.57 Mbit/s)
- Flow 2 egress (mean 44.35 Mbit/s)
- Flow 3 ingress (mean 35.88 Mbit/s)
- Flow 3 egress (mean 35.63 Mbit/s)

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

- Flow 1 (95th percentile 143.31 ms)
- Flow 2 (95th percentile 141.56 ms)
- Flow 3 (95th percentile 139.67 ms)
Run 3: Statistics of TCP Cubic

Start at: 2018-06-06 18:28:12
End at: 2018-06-06 18:28:42
Local clock offset: -0.095 ms
Remote clock offset: -0.047 ms

# Below is generated by plot.py at 2018-06-06 22:11:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.16 Mbit/s
95th percentile per-packet one-way delay: 140.228 ms
Loss rate: 1.92%
-- Flow 1:
Average throughput: 54.27 Mbit/s
95th percentile per-packet one-way delay: 140.654 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 16.35 Mbit/s
95th percentile per-packet one-way delay: 139.725 ms
Loss rate: 6.27%
-- Flow 3:
Average throughput: 40.02 Mbit/s
95th percentile per-packet one-way delay: 139.244 ms
Loss rate: 3.69%
Run 3: Report of TCP Cubic — Data Link

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

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

Legend:
- Flow 1 ingress (mean 54.13 Mbit/s)
- Flow 1 egress (mean 54.27 Mbit/s)
- Flow 2 ingress (mean 17.20 Mbit/s)
- Flow 2 egress (mean 16.35 Mbit/s)
- Flow 3 ingress (mean 40.41 Mbit/s)
- Flow 3 egress (mean 40.02 Mbit/s)

Legend:
- Flow 1 (95th percentile 140.65 ms)
- Flow 2 (95th percentile 139.72 ms)
- Flow 3 (95th percentile 139.24 ms)
Run 4: Statistics of TCP Cubic

Start at: 2018-06-06 18:52:52
End at: 2018-06-06 18:53:22
Local clock offset: -0.381 ms
Remote clock offset: -0.57 ms

# Below is generated by plot.py at 2018-06-06 22:11:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 103.32 Mbit/s
95th percentile per-packet one-way delay: 141.588 ms
Loss rate: 1.81%
-- Flow 1:
Average throughput: 54.75 Mbit/s
95th percentile per-packet one-way delay: 141.533 ms
Loss rate: 1.40%
-- Flow 2:
Average throughput: 52.75 Mbit/s
95th percentile per-packet one-way delay: 139.435 ms
Loss rate: 1.72%
-- Flow 3:
Average throughput: 41.64 Mbit/s
95th percentile per-packet one-way delay: 144.471 ms
Loss rate: 3.70%
Run 4: Report of TCP Cubic — Data Link

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

Flow 1 ingress (mean 55.45 Mbit/s) — Flow 1 egress (mean 54.75 Mbit/s)
Flow 2 ingress (mean 52.84 Mbit/s) — Flow 2 egress (mean 52.75 Mbit/s)
Flow 3 ingress (mean 42.05 Mbit/s) — Flow 3 egress (mean 41.64 Mbit/s)

![Graph showing the same data with a different focus on per-packet one-way delay.]
Run 5: Statistics of TCP Cubic

Start at: 2018-06-06 19:17:40
End at: 2018-06-06 19:18:10
Local clock offset: -0.59 ms
Remote clock offset: -0.141 ms

# Below is generated by plot.py at 2018-06-06 22:11:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.09 Mbit/s
95th percentile per-packet one-way delay: 138.790 ms
Loss rate: 1.81%
-- Flow 1:
Average throughput: 53.39 Mbit/s
95th percentile per-packet one-way delay: 138.034 ms
Loss rate: 1.38%
-- Flow 2:
Average throughput: 41.75 Mbit/s
95th percentile per-packet one-way delay: 139.497 ms
Loss rate: 1.68%
-- Flow 3:
Average throughput: 33.87 Mbit/s
95th percentile per-packet one-way delay: 141.126 ms
Loss rate: 4.16%
Run 5: Report of TCP Cubic — Data Link
Run 6: Statistics of TCP Cubic

Start at: 2018-06-06 19:42:56
End at: 2018-06-06 19:43:26
Local clock offset: -0.722 ms
Remote clock offset: 0.117 ms

# Below is generated by plot.py at 2018-06-06 22:11:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 118.69 Mbit/s
95th percentile per-packet one-way delay: 143.754 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 69.12 Mbit/s
95th percentile per-packet one-way delay: 142.997 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 39.25 Mbit/s
95th percentile per-packet one-way delay: 142.777 ms
Loss rate: 1.60%
-- Flow 3:
Average throughput: 72.38 Mbit/s
95th percentile per-packet one-way delay: 145.028 ms
Loss rate: 3.63%
Run 6: Report of TCP Cubic — Data Link

![Graph showing throughput and per-packet one-way delay over time for three flows, with flow details and mean throughputs provided.](image-url)

- Flow 1 ingress (mean 68.94 Mbit/s)
- Flow 1 egress (mean 69.12 Mbit/s)
- Flow 2 ingress (mean 39.34 Mbit/s)
- Flow 2 egress (mean 39.25 Mbit/s)
- Flow 3 ingress (mean 73.06 Mbit/s)
- Flow 3 egress (mean 72.38 Mbit/s)

![Graph showing per-packet one-way delay over time for three flows, with flow details and 95th percentiles provided.](image-url)

- Flow 1 (95th percentile 143.00 ms)
- Flow 2 (95th percentile 142.78 ms)
- Flow 3 (95th percentile 145.03 ms)
Run 7: Statistics of TCP Cubic

Start at: 2018-06-06 20:08:05
End at: 2018-06-06 20:08:35
Local clock offset: -0.904 ms
Remote clock offset: 0.109 ms

# Below is generated by plot.py at 2018-06-06 22:11:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 129.67 Mbit/s
95th percentile per-packet one-way delay: 142.336 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 84.65 Mbit/s
95th percentile per-packet one-way delay: 142.523 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 50.45 Mbit/s
95th percentile per-packet one-way delay: 140.932 ms
Loss rate: 1.77%
-- Flow 3:
Average throughput: 35.67 Mbit/s
95th percentile per-packet one-way delay: 140.984 ms
Loss rate: 3.58%
Run 7: Report of TCP Cubic — Data Link

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

Start at: 2018-06-06 20:32:57
End at: 2018-06-06 20:33:27
Local clock offset: 0.121 ms
Remote clock offset: -0.012 ms

# Below is generated by plot.py at 2018-06-06 22:11:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.36 Mbit/s
95th percentile per-packet one-way delay: 140.191 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 49.36 Mbit/s
95th percentile per-packet one-way delay: 140.363 ms
Loss rate: 0.91%
-- Flow 2:
Average throughput: 40.93 Mbit/s
95th percentile per-packet one-way delay: 139.730 ms
Loss rate: 1.76%
-- Flow 3:
Average throughput: 33.46 Mbit/s
95th percentile per-packet one-way delay: 140.335 ms
Loss rate: 3.34%
Run 8: Report of TCP Cubic — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 49.36 Mbps)
  - Flow 1 egress (mean 49.36 Mbps)
  - Flow 2 ingress (mean 41.10 Mbps)
  - Flow 2 egress (mean 40.93 Mbps)
  - Flow 3 ingress (mean 33.72 Mbps)
  - Flow 3 egress (mean 33.46 Mbps)

- **Per-packet one-way delay (ms):**
  - Flow 1 (95th percentile 140.36 ms)
  - Flow 2 (95th percentile 139.73 ms)
  - Flow 3 (95th percentile 140.34 ms)
Run 9: Statistics of TCP Cubic

Start at: 2018-06-06 20:58:09
End at: 2018-06-06 20:58:39
Local clock offset: 0.474 ms
Remote clock offset: -0.037 ms

# Below is generated by plot.py at 2018-06-06 22:11:57
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 93.59 Mbit/s
  95th percentile per-packet one-way delay: 140.743 ms
  Loss rate: 1.76%
-- Flow 1:
  Average throughput: 52.98 Mbit/s
  95th percentile per-packet one-way delay: 140.993 ms
  Loss rate: 1.43%
-- Flow 2:
  Average throughput: 43.72 Mbit/s
  95th percentile per-packet one-way delay: 139.701 ms
  Loss rate: 1.67%
-- Flow 3:
  Average throughput: 35.90 Mbit/s
  95th percentile per-packet one-way delay: 141.194 ms
  Loss rate: 3.48%
Run 9: Report of TCP Cubic — Data Link
Run 10: Statistics of TCP Cubic

Start at: 2018-06-06 21:23:08
End at: 2018-06-06 21:23:38
Local clock offset: 0.138 ms
Remote clock offset: -0.017 ms

# Below is generated by plot.py at 2018-06-06 22:11:57
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 110.08 Mbit/s
  95th percentile per-packet one-way delay: 142.695 ms
  Loss rate: 1.89%
-- Flow 1:
  Average throughput: 60.01 Mbit/s
  95th percentile per-packet one-way delay: 141.461 ms
  Loss rate: 1.33%
-- Flow 2:
  Average throughput: 40.56 Mbit/s
  95th percentile per-packet one-way delay: 141.302 ms
  Loss rate: 1.77%
-- Flow 3:
  Average throughput: 72.08 Mbit/s
  95th percentile per-packet one-way delay: 144.200 ms
  Loss rate: 3.46%
Run 10: Report of TCP Cubic — Data Link

![Graph of Throughput (Mbps)]

- Flow 1 ingress (mean 60.27 Mbps)
- Flow 1 egress (mean 60.01 Mbps)
- Flow 2 ingress (mean 40.74 Mbps)
- Flow 2 egress (mean 40.56 Mbps)
- Flow 3 ingress (mean 72.64 Mbps)
- Flow 3 egress (mean 72.08 Mbps)

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

- Flow 1 (95th percentile 141.46 ms)
- Flow 2 (95th percentile 141.30 ms)
- Flow 3 (95th percentile 144.20 ms)
Run 1: Statistics of FillP

Start at: 2018-06-06 17:31:37  
End at: 2018-06-06 17:32:07  
Local clock offset: 0.104 ms  
Remote clock offset: -0.124 ms

# Below is generated by plot.py at 2018-06-06 22:33:41
# Datalink statistics
-- Total of 3 flows: 
  Average throughput: 1258.19 Mbit/s 
  95th percentile per-packet one-way delay: 298.020 ms 
  Loss rate: 4.42% 
-- Flow 1: 
  Average throughput: 663.17 Mbit/s 
  95th percentile per-packet one-way delay: 215.086 ms 
  Loss rate: 4.79% 
-- Flow 2: 
  Average throughput: 653.85 Mbit/s 
  95th percentile per-packet one-way delay: 332.515 ms 
  Loss rate: 3.65% 
-- Flow 3: 
  Average throughput: 499.72 Mbit/s 
  95th percentile per-packet one-way delay: 203.084 ms 
  Loss rate: 4.95%
Run 1: Report of FillP — Data Link

---

First graph:
- **Throughput (Mbps/s)** vs **Time (s)**
- Lines represent:
  - Flow 1 ingress (mean 689.91 Mbps/s)
  - Flow 1 egress (mean 663.17 Mbps/s)
  - Flow 2 ingress (mean 669.32 Mbps/s)
  - Flow 2 egress (mean 653.85 Mbps/s)
  - Flow 3 ingress (mean 511.29 Mbps/s)
  - Flow 3 egress (mean 499.72 Mbps/s)

Second graph:
- **Packet one-way delay (ms)** vs **Time (s)**
- Lines represent:
  - Flow 1 (95th percentile 215.09 ms)
  - Flow 2 (95th percentile 332.51 ms)
  - Flow 3 (95th percentile 203.08 ms)
Run 2: Statistics of FillP

Start at: 2018-06-06 17:56:19
End at: 2018-06-06 17:56:49
Local clock offset: 0.421 ms
Remote clock offset: -0.2 ms

# Below is generated by plot.py at 2018-06-06 22:33:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1268.57 Mbit/s
95th percentile per-packet one-way delay: 207.823 ms
Loss rate: 3.29%
-- Flow 1:
Average throughput: 709.43 Mbit/s
95th percentile per-packet one-way delay: 201.406 ms
Loss rate: 2.86%
-- Flow 2:
Average throughput: 598.70 Mbit/s
95th percentile per-packet one-way delay: 218.639 ms
Loss rate: 3.85%
-- Flow 3:
Average throughput: 498.89 Mbit/s
95th percentile per-packet one-way delay: 205.520 ms
Loss rate: 3.74%
Run 2: Report of FillP — Data Link

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

- **Flow 1 Ingress** (mean 723.69 Mbps/s)
- **Flow 1 Egress** (mean 709.43 Mbps/s)
- **Flow 2 Ingress** (mean 614.28 Mbps/s)
- **Flow 2 Egress** (mean 598.70 Mbps/s)
- **Flow 3 Ingress** (mean 503.59 Mbps/s)
- **Flow 3 Egress** (mean 498.89 Mbps/s)

![Graph 2: Per-packet Delay vs Time (ms)]

- **Flow 1 (95th percentile 201.41 ms)**
- **Flow 2 (95th percentile 218.64 ms)**
- **Flow 3 (95th percentile 205.52 ms)**

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Run 3: Statistics of FillP

Start at: 2018-06-06 18:21:23
End at: 2018-06-06 18:21:53
Local clock offset: -0.32 ms
Remote clock offset: 0.032 ms

# Below is generated by plot.py at 2018-06-06 22:33:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1244.58 Mbit/s
95th percentile per-packet one-way delay: 251.648 ms
Loss rate: 3.54%
-- Flow 1:
Average throughput: 703.52 Mbit/s
95th percentile per-packet one-way delay: 239.025 ms
Loss rate: 4.56%
-- Flow 2:
Average throughput: 645.21 Mbit/s
95th percentile per-packet one-way delay: 240.689 ms
Loss rate: 2.04%
-- Flow 3:
Average throughput: 350.28 Mbit/s
95th percentile per-packet one-way delay: 264.280 ms
Loss rate: 2.67%
Run 3: Report of FillP — Data Link

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

- Flow 1 ingress (mean 730.37 Mbit/s)
- Flow 1 egress (mean 703.52 Mbit/s)
- Flow 2 ingress (mean 649.73 Mbit/s)
- Flow 2 egress (mean 645.23 Mbit/s)
- Flow 3 ingress (mean 350.08 Mbit/s)
- Flow 3 egress (mean 350.28 Mbit/s)
Run 4: Statistics of FillP

Start at: 2018-06-06 18:46:02
End at: 2018-06-06 18:46:32
Local clock offset: -0.341 ms
Remote clock offset: -0.465 ms

# Below is generated by plot.py at 2018-06-06 22:34:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1245.87 Mbit/s
95th percentile per-packet one-way delay: 213.210 ms
Loss rate: 2.41%
-- Flow 1:
Average throughput: 686.38 Mbit/s
95th percentile per-packet one-way delay: 218.745 ms
Loss rate: 2.76%
-- Flow 2:
Average throughput: 604.85 Mbit/s
95th percentile per-packet one-way delay: 208.260 ms
Loss rate: 1.31%
-- Flow 3:
Average throughput: 487.40 Mbit/s
95th percentile per-packet one-way delay: 174.669 ms
Loss rate: 3.59%
Run 4: Report of FillP — Data Link

[Graph showing throughput and packet delay over time for different flows.
Flow 1: Ingress (mean 699.99 Mb/s), Egress (mean 686.38 Mb/s).
Flow 2: Ingress (mean 604.49 Mb/s), Egress (mean 604.85 Mb/s).
Flow 3: Ingress (mean 491.70 Mb/s), Egress (mean 487.40 Mb/s).
Packet delay in ms for each flow, with 95th percentile values.
]
Run 5: Statistics of FillP

Start at: 2018-06-06 19:11:10
End at: 2018-06-06 19:11:40
Local clock offset: -0.554 ms
Remote clock offset: -0.092 ms

# Below is generated by plot.py at 2018-06-06 22:34:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 890.64 Mbit/s
95th percentile per-packet one-way delay: 290.719 ms
Loss rate: 2.95%
-- Flow 1:
Average throughput: 164.31 Mbit/s
95th percentile per-packet one-way delay: 348.775 ms
Loss rate: 2.30%
-- Flow 2:
Average throughput: 782.29 Mbit/s
95th percentile per-packet one-way delay: 212.687 ms
Loss rate: 2.94%
-- Flow 3:
Average throughput: 640.47 Mbit/s
95th percentile per-packet one-way delay: 200.317 ms
Loss rate: 3.46%
Run 5: Report of FillP — Data Link

**Throughput (Mbps)**

- Flow 1 ingress (mean 166.45 Mbps)
- Flow 1 egress (mean 164.31 Mbps)
- Flow 2 ingress (mean 794.93 Mbps)
- Flow 2 egress (mean 782.29 Mbps)
- Flow 3 ingress (mean 645.71 Mbps)
- Flow 3 egress (mean 640.47 Mbps)

**Packet delay (ms)**

- Flow 1 (95th percentile 348.77 ms)
- Flow 2 (95th percentile 212.69 ms)
- Flow 3 (95th percentile 200.32 ms)
Run 6: Report of FillP — Data Link

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

**Legend for Graphs:**
- Flow 1 Ingress (mean 726.35 Mbit/s)
- Flow 1 Egress (mean 719.35 Mbit/s)
- Flow 2 Ingress (mean 570.30 Mbit/s)
- Flow 2 Egress (mean 545.99 Mbit/s)
- Flow 3 Ingress (mean 453.16 Mbit/s)
- Flow 3 Egress (mean 448.37 Mbit/s)
Run 7: Statistics of FillP

Start at: 2018-06-06 20:01:21
End at: 2018-06-06 20:01:51
Local clock offset: -0.877 ms
Remote clock offset: 0.062 ms

# Below is generated by plot.py at 2018-06-06 22:34:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1222.37 Mbit/s
95th percentile per-packet one-way delay: 230.473 ms
Loss rate: 3.92%
-- Flow 1:
Average throughput: 675.86 Mbit/s
95th percentile per-packet one-way delay: 240.084 ms
Loss rate: 2.62%
-- Flow 2:
Average throughput: 583.25 Mbit/s
95th percentile per-packet one-way delay: 220.035 ms
Loss rate: 6.09%
-- Flow 3:
Average throughput: 493.23 Mbit/s
95th percentile per-packet one-way delay: 189.893 ms
Loss rate: 3.93%
Run 7: Report of FillP — Data Link

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

**Throughput (Mbps)**
- Flow 1 ingress (mean 687.83 Mbps)
- Flow 1 egress (mean 675.86 Mbps)
- Flow 2 ingress (mean 612.61 Mbps)
- Flow 2 egress (mean 583.25 Mbps)
- Flow 3 ingress (mean 499.34 Mbps)
- Flow 3 egress (mean 493.23 Mbps)

**Packet Delay (ms)**
- Flow 1 (95th percentile 240.08 ms)
- Flow 2 (95th percentile 220.03 ms)
- Flow 3 (95th percentile 189.89 ms)
Run 8: Statistics of FillP

Start at: 2018-06-06 20:26:20
End at: 2018-06-06 20:26:50
Local clock offset: 0.263 ms
Remote clock offset: 0.003 ms

# Below is generated by plot.py at 2018-06-06 22:39:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1228.43 Mbit/s
95th percentile per-packet one-way delay: 213.576 ms
Loss rate: 3.78%
-- Flow 1:
Average throughput: 664.98 Mbit/s
95th percentile per-packet one-way delay: 214.338 ms
Loss rate: 3.80%
-- Flow 2:
Average throughput: 604.41 Mbit/s
95th percentile per-packet one-way delay: 216.211 ms
Loss rate: 3.42%
-- Flow 3:
Average throughput: 501.27 Mbit/s
95th percentile per-packet one-way delay: 192.607 ms
Loss rate: 4.57%
Run 8: Report of FillP — Data Link

Throughput (Mbps):

0 5 10 15 20 25 30

Time (s)

Flow 1 Ingress (mean 684.83 Mbps/s)  Flow 1 Egress (mean 664.26 Mbps/s)
Flow 2 Ingress (mean 617.05 Mbps/s)  Flow 2 Egress (mean 604.43 Mbps/s)
Flow 3 Ingress (mean 510.80 Mbps/s)  Flow 3 Egress (mean 501.27 Mbps/s)

Packet one-way delay (ms):

0 5 10 15 20 25 30

Time (s)

Flow 1 (95th percentile 214.34 ms)  Flow 2 (95th percentile 216.21 ms)  Flow 3 (95th percentile 192.61 ms)
Run 9: Statistics of FillP

Start at: 2018-06-06 20:51:16
End at: 2018-06-06 20:51:46
Local clock offset: 0.67 ms
Remote clock offset: -0.04 ms

# Below is generated by plot.py at 2018-06-06 22:56:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1228.86 Mbit/s
95th percentile per-packet one-way delay: 222.554 ms
Loss rate: 5.02%
-- Flow 1:
Average throughput: 677.14 Mbit/s
95th percentile per-packet one-way delay: 218.760 ms
Loss rate: 4.44%
-- Flow 2:
Average throughput: 592.45 Mbit/s
95th percentile per-packet one-way delay: 235.043 ms
Loss rate: 7.02%
-- Flow 3:
Average throughput: 489.48 Mbit/s
95th percentile per-packet one-way delay: 163.077 ms
Loss rate: 2.32%
Run 9: Report of FillP — Data Link

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**Throughput (Mbps)**

- **Flow 1 Ingress**: mean 702.21 Mbps
- **Flow 1 Egress**: mean 677.14 Mbps
- **Flow 2 Ingress**: mean 628.46 Mbps
- **Flow 2 Egress**: mean 592.45 Mbps
- **Flow 3 Ingress**: mean 487.37 Mbps
- **Flow 3 Egress**: mean 489.48 Mbps

---

**Delay (ms)**

- **Flow 1**: 95th percentile 218.76 ms
- **Flow 2**: 95th percentile 235.04 ms
- **Flow 3**: 95th percentile 163.08 ms

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Run 10: Statistics of FillP

Start at: 2018-06-06 21:16:18
End at: 2018-06-06 21:16:48
Local clock offset: -0.004 ms
Remote clock offset: -0.01 ms

# Below is generated by plot.py at 2018-06-06 23:01:39
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 1244.38 Mbit/s
  95th percentile per-packet one-way delay: 204.266 ms
  Loss rate: 2.89%
-- Flow 1:
  Average throughput: 698.76 Mbit/s
  95th percentile per-packet one-way delay: 208.672 ms
  Loss rate: 3.55%
-- Flow 2:
  Average throughput: 584.02 Mbit/s
  95th percentile per-packet one-way delay: 162.223 ms
  Loss rate: 1.60%
-- Flow 3:
  Average throughput: 488.74 Mbit/s
  95th percentile per-packet one-way delay: 164.162 ms
  Loss rate: 3.07%
Run 10: Report of FillIP — Data Link

![Graph showing throughput and packet delay over time for different flows.](image-url)
Run 1: Statistics of Indigo

Start at: 2018-06-06 17:43:41
End at: 2018-06-06 17:44:11
Local clock offset: 0.428 ms
Remote clock offset: 0.32 ms

# Below is generated by plot.py at 2018-06-06 23:01:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 249.06 Mbit/s
95th percentile per-packet one-way delay: 137.279 ms
Loss rate: 1.57%
-- Flow 1:
Average throughput: 130.37 Mbit/s
95th percentile per-packet one-way delay: 137.079 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 120.71 Mbit/s
95th percentile per-packet one-way delay: 137.154 ms
Loss rate: 1.55%
-- Flow 3:
Average throughput: 110.74 Mbit/s
95th percentile per-packet one-way delay: 137.971 ms
Loss rate: 3.70%
Run 1: Report of Indigo — Data Link
Run 2: Statistics of Indigo

Start at: 2018-06-06 18:08:38
End at: 2018-06-06 18:09:08
Local clock offset: -0.041 ms
Remote clock offset: 0.08 ms

# Below is generated by plot.py at 2018-06-06 23:01:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 312.08 Mbit/s
95th percentile per-packet one-way delay: 136.709 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 179.13 Mbit/s
95th percentile per-packet one-way delay: 136.300 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 127.09 Mbit/s
95th percentile per-packet one-way delay: 136.986 ms
Loss rate: 1.52%
-- Flow 3:
Average throughput: 151.80 Mbit/s
95th percentile per-packet one-way delay: 138.148 ms
Loss rate: 3.43%
Run 2: Report of Indigo — Data Link

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

![Graph 2: Per-packet one-way delay vs Time](image)
Run 3: Statistics of Indigo

Start at: 2018-06-06 18:33:21
End at: 2018-06-06 18:33:51
Local clock offset: -0.075 ms
Remote clock offset: -0.416 ms

# Below is generated by plot.py at 2018-06-06 23:01:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 283.43 Mbit/s
95th percentile per-packet one-way delay: 138.050 ms
Loss rate: 1.50%

-- Flow 1:
Average throughput: 132.15 Mbit/s
95th percentile per-packet one-way delay: 137.623 ms
Loss rate: 0.98%

-- Flow 2:
Average throughput: 175.83 Mbit/s
95th percentile per-packet one-way delay: 138.829 ms
Loss rate: 1.43%

-- Flow 3:
Average throughput: 108.66 Mbit/s
95th percentile per-packet one-way delay: 138.048 ms
Loss rate: 3.61%
Run 3: Report of Indigo — Data Link
Run 4: Statistics of Indigo

Start at: 2018-06-06 18:58:23
End at: 2018-06-06 18:58:53
Local clock offset: -0.43 ms
Remote clock offset: -0.57 ms

# Below is generated by plot.py at 2018-06-06 23:01:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 310.36 Mbit/s
95th percentile per-packet one-way delay: 139.578 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 178.34 Mbit/s
95th percentile per-packet one-way delay: 137.901 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 124.69 Mbit/s
95th percentile per-packet one-way delay: 142.845 ms
Loss rate: 1.56%
-- Flow 3:
Average throughput: 154.11 Mbit/s
95th percentile per-packet one-way delay: 139.957 ms
Loss rate: 3.26%
Run 4: Report of Indigo — Data Link

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

Flow 1 ingress (mean 178.41 Mbps)  
Flow 1 egress (mean 178.34 Mbps)  
Flow 2 ingress (mean 124.92 Mbps)  
Flow 2 egress (mean 124.69 Mbps)  
Flow 3 ingress (mean 154.85 Mbps)  
Flow 3 egress (mean 154.11 Mbps)

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

Flow 1 (95th percentile 137.90 ms)  
Flow 2 (95th percentile 142.84 ms)  
Flow 3 (95th percentile 139.96 ms)
Run 5: Statistics of Indigo

Start at: 2018-06-06 19:23:24
End at: 2018-06-06 19:23:54
Local clock offset: -0.599 ms
Remote clock offset: -0.078 ms

# Below is generated by plot.py at 2018-06-06 23:01:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 316.83 Mbit/s
95th percentile per-packet one-way delay: 138.766 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 168.17 Mbit/s
95th percentile per-packet one-way delay: 138.128 ms
Loss rate: 0.81%
-- Flow 2:
Average throughput: 172.48 Mbit/s
95th percentile per-packet one-way delay: 139.890 ms
Loss rate: 1.34%
-- Flow 3:
Average throughput: 108.44 Mbit/s
95th percentile per-packet one-way delay: 138.311 ms
Loss rate: 3.67%
Run 5: Report of Indigo — Data Link

![Graph 1: Throughput vs Time][1]

![Graph 2: Packet Delay vs Time][2]

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[1]: https://example.com/graph1.png
[2]: https://example.com/graph2.png
Run 6: Statistics of Indigo

Start at: 2018-06-06 19:48:38
End at: 2018-06-06 19:49:08
Local clock offset: -0.782 ms
Remote clock offset: 0.065 ms

# Below is generated by plot.py at 2018-06-06 23:01:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 265.57 Mbit/s
95th percentile per-packet one-way delay: 139.727 ms
Loss rate: 1.62%
-- Flow 1:
Average throughput: 132.24 Mbit/s
95th percentile per-packet one-way delay: 138.987 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 126.61 Mbit/s
95th percentile per-packet one-way delay: 140.007 ms
Loss rate: 1.54%
-- Flow 3:
Average throughput: 155.07 Mbit/s
95th percentile per-packet one-way delay: 141.349 ms
Loss rate: 3.40%
Run 6: Report of Indigo — Data Link
Run 7: Statistics of Indigo

Start at: 2018-06-06 20:13:42
End at: 2018-06-06 20:14:12
Local clock offset: -0.746 ms
Remote clock offset: 0.465 ms

# Below is generated by plot.py at 2018-06-06 23:01:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 270.28 Mbit/s
95th percentile per-packet one-way delay: 137.410 ms
Loss rate: 1.60%
-- Flow 1:
Average throughput: 136.05 Mbit/s
95th percentile per-packet one-way delay: 137.157 ms
Loss rate: 0.95%
-- Flow 2:
Average throughput: 129.24 Mbit/s
95th percentile per-packet one-way delay: 136.962 ms
Loss rate: 1.55%
-- Flow 3:
Average throughput: 152.10 Mbit/s
95th percentile per-packet one-way delay: 150.728 ms
Loss rate: 3.44%
Run 7: Report of Indigo — Data Link
Run 8: Statistics of Indigo

Start at: 2018-06-06 20:38:26
End at: 2018-06-06 20:38:56
Local clock offset: 0.531 ms
Remote clock offset: -0.067 ms

# Below is generated by plot.py at 2018-06-06 23:01:39
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 340.83 Mbit/s
  95th percentile per-packet one-way delay: 138.662 ms
  Loss rate: 1.40%
-- Flow 1:
  Average throughput: 178.52 Mbit/s
  95th percentile per-packet one-way delay: 137.549 ms
  Loss rate: 0.89%
-- Flow 2:
  Average throughput: 171.26 Mbit/s
  95th percentile per-packet one-way delay: 139.485 ms
  Loss rate: 1.35%
-- Flow 3:
  Average throughput: 152.11 Mbit/s
  95th percentile per-packet one-way delay: 144.547 ms
  Loss rate: 3.35%
Run 8: Report of Indigo — Data Link
Run 9: Statistics of Indigo

Start at: 2018-06-06 21:03:39
End at: 2018-06-06 21:04:09
Local clock offset: 0.24 ms
Remote clock offset: -0.04 ms

# Below is generated by plot.py at 2018-06-06 23:01:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 266.55 Mbit/s
95th percentile per-packet one-way delay: 137.420 ms
Loss rate: 1.58%
-- Flow 1:
Average throughput: 133.56 Mbit/s
95th percentile per-packet one-way delay: 136.995 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 126.96 Mbit/s
95th percentile per-packet one-way delay: 137.320 ms
Loss rate: 1.53%
-- Flow 3:
Average throughput: 152.29 Mbit/s
95th percentile per-packet one-way delay: 140.901 ms
Loss rate: 3.29%
Run 9: Report of Indigo — Data Link
Run 10: Statistics of Indigo

Start at: 2018-06-06 21:28:19
End at: 2018-06-06 21:28:49
Local clock offset: -0.222 ms
Remote clock offset: -0.074 ms

# Below is generated by plot.py at 2018-06-06 23:01:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 266.07 Mbit/s
95th percentile per-packet one-way delay: 136.881 ms
Loss rate: 1.61%
-- Flow 1:
Average throughput: 132.27 Mbit/s
95th percentile per-packet one-way delay: 136.564 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 126.88 Mbit/s
95th percentile per-packet one-way delay: 136.988 ms
Loss rate: 1.53%
-- Flow 3:
Average throughput: 156.23 Mbit/s
95th percentile per-packet one-way delay: 138.102 ms
Loss rate: 3.39%
Run 10: Report of Indigo — Data Link
Run 1: Statistics of LEDBAT

Start at: 2018-06-06 17:51:30
End at: 2018-06-06 17:52:00
Local clock offset: 0.4 ms
Remote clock offset: 0.251 ms

# Below is generated by plot.py at 2018-06-06 23:01:39
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 7.32 Mbit/s
  95th percentile per-packet one-way delay: 136.695 ms
  Loss rate: 2.35%
-- Flow 1:
  Average throughput: 4.75 Mbit/s
  95th percentile per-packet one-way delay: 136.702 ms
  Loss rate: 1.83%
-- Flow 2:
  Average throughput: 3.19 Mbit/s
  95th percentile per-packet one-way delay: 136.673 ms
  Loss rate: 2.74%
-- Flow 3:
  Average throughput: 1.48 Mbit/s
  95th percentile per-packet one-way delay: 138.228 ms
  Loss rate: 5.55%
Run 1: Report of LEDBAT — Data Link

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

Legend:
- Flow 1 ingress (mean 4.79 Mbit/s)
- Flow 1 egress (mean 4.75 Mbit/s)
- Flow 2 ingress (mean 3.24 Mbit/s)
- Flow 2 egress (mean 3.19 Mbit/s)
- Flow 3 ingress (mean 1.53 Mbit/s)
- Flow 3 egress (mean 1.46 Mbit/s)

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

Legend:
- Flow 1 (95th percentile 136.70 ms)
- Flow 2 (95th percentile 136.67 ms)
- Flow 3 (95th percentile 138.23 ms)
Run 2: Statistics of LEDBAT

Start at: 2018-06-06 18:16:31
End at: 2018-06-06 18:17:01
Local clock offset: -0.062 ms
Remote clock offset: -0.36 ms

# Below is generated by plot.py at 2018-06-06 23:01:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.46 Mbit/s
95th percentile per-packet one-way delay: 136.181 ms
Loss rate: 2.33%
-- Flow 1:
Average throughput: 4.87 Mbit/s
95th percentile per-packet one-way delay: 136.229 ms
Loss rate: 1.81%
-- Flow 2:
Average throughput: 3.20 Mbit/s
95th percentile per-packet one-way delay: 135.923 ms
Loss rate: 2.73%
-- Flow 3:
Average throughput: 1.49 Mbit/s
95th percentile per-packet one-way delay: 135.828 ms
Loss rate: 5.63%
Run 2: Report of LEDBAT — Data Link

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**Diagram 1:**

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 4.91 Mbps)
  - Flow 1 egress (mean 4.87 Mbps)
  - Flow 2 ingress (mean 3.24 Mbps)
  - Flow 2 egress (mean 3.20 Mbps)
  - Flow 3 ingress (mean 1.53 Mbps)
  - Flow 3 egress (mean 1.49 Mbps)

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

---

**Diagram 2:**

- **Per-packet one-way delay (ms):**
  - Flow 1 (95th percentile 136.23 ms)
  - Flow 2 (95th percentile 135.92 ms)
  - Flow 3 (95th percentile 135.83 ms)

- **Time (s):**
  - 0, 5, 10, 15, 20, 25, 30
Run 3: Statistics of LEDBAT

Start at: 2018-06-06 18:41:07
End at: 2018-06-06 18:41:37
Local clock offset: -0.289 ms
Remote clock offset: -0.109 ms

# Below is generated by plot.py at 2018-06-06 23:01:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.99 Mbit/s
95th percentile per-packet one-way delay: 136.128 ms
Loss rate: 2.19%
-- Flow 1:
Average throughput: 4.82 Mbit/s
95th percentile per-packet one-way delay: 136.168 ms
Loss rate: 1.82%
-- Flow 2:
Average throughput: 1.66 Mbit/s
95th percentile per-packet one-way delay: 135.932 ms
Loss rate: 3.68%
-- Flow 3:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 135.997 ms
Loss rate: 3.55%
Run 3: Report of LEDBAT — Data Link

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

- **Flow 1** ingress (mean 4.87 Mbps)
- **Flow 1** egress (mean 4.82 Mbps)
- **Flow 2** ingress (mean 1.70 Mbps)
- **Flow 2** egress (mean 1.66 Mbps)
- **Flow 3** ingress (mean 0.23 Mbps)
- **Flow 3** egress (mean 0.23 Mbps)

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

- Flow 1 (95th percentile 136.17 ms)
- Flow 2 (95th percentile 135.93 ms)
- Flow 3 (95th percentile 136.00 ms)
Run 4: Statistics of LEDBAT

Start at: 2018-06-06 19:06:14
End at: 2018-06-06 19:06:44
Local clock offset: -0.4 ms
Remote clock offset: -0.267 ms

# Below is generated by plot.py at 2018-06-06 23:01:39
# Datalink statistics
-- Total of 3 flows:
95th percentile per-packet one-way delay: 136.942 ms
Loss rate: 2.33%
-- Flow 1:
Average throughput: 4.85 Mbit/s
95th percentile per-packet one-way delay: 136.932 ms
Loss rate: 1.82%
-- Flow 2:
Average throughput: 3.18 Mbit/s
95th percentile per-packet one-way delay: 137.005 ms
Loss rate: 2.74%
-- Flow 3:
Average throughput: 1.53 Mbit/s
95th percentile per-packet one-way delay: 136.506 ms
Loss rate: 5.55%
Run 4: Report of LEDBAT — Data Link

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

- Flow 1 ingress (mean 4.89 Mbit/s)
- Flow 1 egress (mean 4.85 Mbit/s)
- Flow 2 ingress (mean 3.22 Mbit/s)
- Flow 2 egress (mean 3.18 Mbit/s)
- Flow 3 ingress (mean 1.57 Mbit/s)
- Flow 3 egress (mean 1.53 Mbit/s)

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

- Flow 1 (95th percentile 136.93 ms)
- Flow 2 (95th percentile 137.00 ms)
- Flow 3 (95th percentile 136.51 ms)
Run 5: Statistics of LEDBAT

Start at: 2018-06-06 19:31:12
End at: 2018-06-06 19:31:42
Local clock offset: -0.697 ms
Remote clock offset: 0.043 ms

# Below is generated by plot.py at 2018-06-06 23:01:39
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 7.46 Mbit/s
  95th percentile per-packet one-way delay: 137.044 ms
  Loss rate: 2.34%
-- Flow 1:
  Average throughput: 4.86 Mbit/s
  95th percentile per-packet one-way delay: 137.046 ms
  Loss rate: 1.82%
-- Flow 2:
  Average throughput: 3.18 Mbit/s
  95th percentile per-packet one-way delay: 137.084 ms
  Loss rate: 2.74%
-- Flow 3:
  Average throughput: 1.53 Mbit/s
  95th percentile per-packet one-way delay: 136.715 ms
  Loss rate: 5.56%
Run 5: Report of LEDBAT — Data Link
Run 6: Statistics of LEDBAT

Start at: 2018-06-06 19:56:27
End at: 2018-06-06 19:56:57
Local clock offset: -0.704 ms
Remote clock offset: 0.061 ms

# Below is generated by plot.py at 2018-06-06 23:01:39
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 7.46 Mbit/s
  95th percentile per-packet one-way delay: 137.211 ms
  Loss rate: 2.33%
-- Flow 1:
  Average throughput: 4.86 Mbit/s
  95th percentile per-packet one-way delay: 137.260 ms
  Loss rate: 1.82%
-- Flow 2:
  Average throughput: 3.19 Mbit/s
  95th percentile per-packet one-way delay: 137.113 ms
  Loss rate: 2.74%
-- Flow 3:
  Average throughput: 1.52 Mbit/s
  95th percentile per-packet one-way delay: 136.998 ms
  Loss rate: 5.56%
Run 6: Report of LEDBAT — Data Link

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

- Flow 1 ingress (mean 4.90 Mbit/s)
- Flow 1 egress (mean 4.86 Mbit/s)
- Flow 2 ingress (mean 3.24 Mbit/s)
- Flow 2 egress (mean 3.19 Mbit/s)
- Flow 3 ingress (mean 1.57 Mbit/s)
- Flow 3 egress (mean 1.32 Mbit/s)]
Run 7: Statistics of LEDBAT

Start at: 2018-06-06 20:21:30
End at: 2018-06-06 20:22:00
Local clock offset: -0.212 ms
Remote clock offset: 0.044 ms

# Below is generated by plot.py at 2018-06-06 23:01:39
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 5.51 Mbit/s
  95th percentile per-packet one-way delay: 136.873 ms
  Loss rate: 2.16%
-- Flow 1:
  Average throughput: 4.86 Mbit/s
  95th percentile per-packet one-way delay: 136.892 ms
  Loss rate: 1.82%
-- Flow 2:
  Average throughput: 0.24 Mbit/s
  95th percentile per-packet one-way delay: 136.595 ms
  Loss rate: 1.62%
-- Flow 3:
  Average throughput: 1.53 Mbit/s
  95th percentile per-packet one-way delay: 136.454 ms
  Loss rate: 5.54%
Run 7: Report of LEDBAT — Data Link

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

- **Flow 1 ingress** (mean 4.90 Mbps/s)
- **Flow 1 egress** (mean 4.86 Mbps/s)
- **Flow 2 ingress** (mean 0.25 Mbps/s)
- **Flow 2 egress** (mean 0.24 Mbps/s)
- **Flow 3 ingress** (mean 1.56 Mbps/s)
- **Flow 3 egress** (mean 1.53 Mbps/s)

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

- **Flow 1** (95th percentile 136.89 ms)
- **Flow 2** (95th percentile 136.59 ms)
- **Flow 3** (95th percentile 136.45 ms)
Run 8: Statistics of LEDBAT

Start at: 2018-06-06 20:46:25
End at: 2018-06-06 20:46:55
Local clock offset: 0.773 ms
Remote clock offset: -0.076 ms

# Below is generated by plot.py at 2018-06-06 23:01:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.83 Mbit/s
95th percentile per-packet one-way delay: 136.310 ms
Loss rate: 2.46%
-- Flow 1:
Average throughput: 4.23 Mbit/s
95th percentile per-packet one-way delay: 136.412 ms
Loss rate: 1.95%
-- Flow 2:
Average throughput: 3.19 Mbit/s
95th percentile per-packet one-way delay: 136.086 ms
Loss rate: 2.74%
-- Flow 3:
Average throughput: 1.53 Mbit/s
95th percentile per-packet one-way delay: 135.781 ms
Loss rate: 5.56%
Run 8: Report of LEDBAT — Data Link
Run 9: Statistics of LEDBAT

Start at: 2018-06-06 21:11:24
End at: 2018-06-06 21:11:54
Local clock offset: -0.352 ms
Remote clock offset: 0.34 ms

# Below is generated by plot.py at 2018-06-06 23:01:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.65 Mbit/s
95th percentile per-packet one-way delay: 134.962 ms
Loss rate: 2.27%
-- Flow 1:
Average throughput: 4.88 Mbit/s
95th percentile per-packet one-way delay: 134.994 ms
Loss rate: 1.82%
-- Flow 2:
Average throughput: 2.45 Mbit/s
95th percentile per-packet one-way delay: 134.890 ms
Loss rate: 3.09%
-- Flow 3:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 135.182 ms
Loss rate: 7.58%
Run 9: Report of LEDBAT — Data Link
Run 10: Statistics of LEDBAT

Start at: 2018-06-06 21:36:11
End at: 2018-06-06 21:36:41
Local clock offset: -0.159 ms
Remote clock offset: 0.329 ms

# Below is generated by plot.py at 2018-06-06 23:01:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.47 Mbit/s
95th percentile per-packet one-way delay: 136.293 ms
Loss rate: 2.34%
-- Flow 1:
Average throughput: 4.87 Mbit/s
95th percentile per-packet one-way delay: 136.388 ms
Loss rate: 1.82%
-- Flow 2:
Average throughput: 3.20 Mbit/s
95th percentile per-packet one-way delay: 136.078 ms
Loss rate: 2.73%
-- Flow 3:
Average throughput: 1.53 Mbit/s
95th percentile per-packet one-way delay: 136.128 ms
Loss rate: 5.54%
Run 1: Statistics of PCC-Allegro

Start at: 2018-06-06 17:45:17
End at: 2018-06-06 17:45:47
Local clock offset: 0.569 ms
Remote clock offset: -0.088 ms

# Below is generated by plot.py at 2018-06-06 23:01:39
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 581.57 Mbit/s
  95th percentile per-packet one-way delay: 246.271 ms
  Loss rate: 3.21%
-- Flow 1:
  Average throughput: 502.69 Mbit/s
  95th percentile per-packet one-way delay: 246.468 ms
  Loss rate: 3.19%
-- Flow 2:
  Average throughput: 117.05 Mbit/s
  95th percentile per-packet one-way delay: 245.158 ms
  Loss rate: 3.38%
-- Flow 3:
  Average throughput: 4.56 Mbit/s
  95th percentile per-packet one-way delay: 229.983 ms
  Loss rate: 3.35%
Run 1: Report of PCC-Allegro — Data Link

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

Detailed explanations of throughput and packet delay trends for each flow are provided in the report.
Run 2: Statistics of PCC-Allegro

Start at: 2018-06-06 18:10:19
End at: 2018-06-06 18:10:49
Local clock offset: -0.111 ms
Remote clock offset: -0.315 ms

# Below is generated by plot.py at 2018-06-06 23:01:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 554.04 Mbit/s
95th percentile per-packet one-way delay: 246.940 ms
Loss rate: 2.54%
-- Flow 1:
Average throughput: 471.29 Mbit/s
95th percentile per-packet one-way delay: 246.808 ms
Loss rate: 2.43%
-- Flow 2:
Average throughput: 123.91 Mbit/s
95th percentile per-packet one-way delay: 247.327 ms
Loss rate: 3.15%
-- Flow 3:
Average throughput: 2.49 Mbit/s
95th percentile per-packet one-way delay: 247.648 ms
Loss rate: 3.45%
Run 2: Report of PCC-Allegro — Data Link

[Graph showing throughput and packet delay over time for different flows with specified mean throughputs and 95th percentile delays.]
Run 3: Statistics of PCC-Allegro

Start at: 2018-06-06 18:35:00
End at: 2018-06-06 18:35:30
Local clock offset: -0.188 ms
Remote clock offset: -0.104 ms

# Below is generated by plot.py at 2018-06-06 23:01:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 565.46 Mbit/s
95th percentile per-packet one-way delay: 249.199 ms
Loss rate: 4.83%
-- Flow 1:
Average throughput: 523.52 Mbit/s
95th percentile per-packet one-way delay: 249.261 ms
Loss rate: 4.88%
-- Flow 2:
Average throughput: 62.31 Mbit/s
95th percentile per-packet one-way delay: 248.662 ms
Loss rate: 4.25%
-- Flow 3:
Average throughput: 2.22 Mbit/s
95th percentile per-packet one-way delay: 250.402 ms
Loss rate: 7.95%
Run 3: Report of PCC-Allegro — Data Link

[Graph showing throughput and packet loss over time]
Run 4: Statistics of PCC-Allegro

Start at: 2018-06-06 19:00:03  
End at: 2018-06-06 19:00:33  
Local clock offset: -0.039 ms  
Remote clock offset: -0.575 ms

# Below is generated by plot.py at 2018-06-06 23:01:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 557.00 Mbit/s  
95th percentile per-packet one-way delay: 248.953 ms  
Loss rate: 2.48%
-- Flow 1:
Average throughput: 466.18 Mbit/s  
95th percentile per-packet one-way delay: 249.192 ms  
Loss rate: 2.36%
-- Flow 2:
Average throughput: 129.19 Mbit/s  
95th percentile per-packet one-way delay: 248.047 ms  
Loss rate: 3.08%
-- Flow 3:
Average throughput: 16.56 Mbit/s  
95th percentile per-packet one-way delay: 248.557 ms  
Loss rate: 2.91%
Run 4: Report of PCC-Allegro — Data Link
Run 5: Statistics of PCC-Allegro

Start at: 2018-06-06 19:25:05
End at: 2018-06-06 19:25:35
Local clock offset: -0.485 ms
Remote clock offset: -0.052 ms

# Below is generated by plot.py at 2018-06-06 23:01:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 562.05 Mbit/s
95th percentile per-packet one-way delay: 247.368 ms
Loss rate: 2.93%
-- Flow 1:
Average throughput: 459.39 Mbit/s
95th percentile per-packet one-way delay: 247.377 ms
Loss rate: 2.76%
-- Flow 2:
Average throughput: 124.51 Mbit/s
95th percentile per-packet one-way delay: 247.672 ms
Loss rate: 3.53%
-- Flow 3:
Average throughput: 63.15 Mbit/s
95th percentile per-packet one-way delay: 241.745 ms
Loss rate: 4.19%
Run 5: Report of PCC-Allegro — Data Link
Run 6: Statistics of PCC-Allegro

Start at: 2018-06-06 19:50:15
End at: 2018-06-06 19:50:45
Local clock offset: -0.712 ms
Remote clock offset: 0.068 ms

# Below is generated by plot.py at 2018-06-06 23:01:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 578.46 Mbit/s
95th percentile per-packet one-way delay: 240.276 ms
Loss rate: 2.19%
-- Flow 1:
Average throughput: 528.08 Mbit/s
95th percentile per-packet one-way delay: 240.567 ms
Loss rate: 2.20%
-- Flow 2:
Average throughput: 68.17 Mbit/s
95th percentile per-packet one-way delay: 236.578 ms
Loss rate: 1.88%
-- Flow 3:
Average throughput: 16.54 Mbit/s
95th percentile per-packet one-way delay: 238.896 ms
Loss rate: 3.49%
Run 6: Report of PCC-Allegro — Data Link

![Graph 1](image1.png)

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

Start at: 2018-06-06 20:15:20
End at: 2018-06-06 20:15:50
Local clock offset: -0.385 ms
Remote clock offset: 0.048 ms

# Below is generated by plot.py at 2018-06-06 23:01:40
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 462.37 Mbit/s
  95th percentile per-packet one-way delay: 250.930 ms
  Loss rate: 4.07%
-- Flow 1:
  Average throughput: 341.19 Mbit/s
  95th percentile per-packet one-way delay: 251.305 ms
  Loss rate: 3.71%
-- Flow 2:
  Average throughput: 70.53 Mbit/s
  95th percentile per-packet one-way delay: 250.564 ms
  Loss rate: 3.60%
-- Flow 3:
  Average throughput: 230.46 Mbit/s
  95th percentile per-packet one-way delay: 226.363 ms
  Loss rate: 5.94%
Run 7: Report of PCC-Allegro — Data Link

![Graph 1](image1.png)

![Graph 2](image2.png)
Run 8: Statistics of PCC-Allegro

Start at: 2018-06-06 20:40:09  
End at: 2018-06-06 20:40:39  
Local clock offset: 0.486 ms  
Remote clock offset: -0.042 ms

# Below is generated by plot.py at 2018-06-06 23:03:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 569.67 Mbit/s
95th percentile per-packet one-way delay: 223.290 ms
Loss rate: 2.05%
-- Flow 1:
Average throughput: 520.41 Mbit/s
95th percentile per-packet one-way delay: 223.325 ms
Loss rate: 2.08%
-- Flow 2:
Average throughput: 66.16 Mbit/s
95th percentile per-packet one-way delay: 223.720 ms
Loss rate: 1.61%
-- Flow 3:
Average throughput: 16.96 Mbit/s
95th percentile per-packet one-way delay: 217.160 ms
Loss rate: 2.70%
Run 8: Report of PCC-Allegro — Data Link

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

*Flow 1 Ingress (mean 526.66 Mbit/s)*
*Flow 1 Egress (mean 520.41 Mbit/s)*
*Flow 2 Ingress (mean 66.31 Mbit/s)*
*Flow 2 Egress (mean 66.16 Mbit/s)*
*Flow 3 Ingress (mean 16.95 Mbit/s)*
*Flow 3 Egress (mean 16.96 Mbit/s)*

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

*Flow 1 (95th percentile 223.32 ms)*
*Flow 2 (95th percentile 223.72 ms)*
*Flow 3 (95th percentile 217.16 ms)*
Run 9: Statistics of PCC-Allegro

Start at: 2018-06-06 21:05:16
End at: 2018-06-06 21:05:46
Local clock offset: 0.034 ms
Remote clock offset: 0.005 ms

# Below is generated by plot.py at 2018-06-06 23:05:24
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 581.98 Mbit/s
  95th percentile per-packet one-way delay: 248.709 ms
  Loss rate: 3.90%
-- Flow 1:
  Average throughput: 497.79 Mbit/s
  95th percentile per-packet one-way delay: 249.581 ms
  Loss rate: 3.77%
-- Flow 2:
  Average throughput: 119.43 Mbit/s
  95th percentile per-packet one-way delay: 243.668 ms
  Loss rate: 4.54%
-- Flow 3:
  Average throughput: 16.11 Mbit/s
  95th percentile per-packet one-way delay: 243.500 ms
  Loss rate: 6.29%
Run 9: Report of PCC-Allegro — Data Link

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

![Graph 2: Packet delay (ms)](image)
Run 10: Statistics of PCC-Allegro

Start at: 2018-06-06 21:29:56
End at: 2018-06-06 21:30:26
Local clock offset: -0.086 ms
Remote clock offset: -0.038 ms

# Below is generated by plot.py at 2018-06-06 23:05:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 576.65 Mbit/s
95th percentile per-packet one-way delay: 244.866 ms
Loss rate: 2.99%
-- Flow 1:
Average throughput: 488.05 Mbit/s
95th percentile per-packet one-way delay: 244.898 ms
Loss rate: 2.93%
-- Flow 2:
Average throughput: 126.03 Mbit/s
95th percentile per-packet one-way delay: 244.756 ms
Loss rate: 3.22%
-- Flow 3:
Average throughput: 16.35 Mbit/s
95th percentile per-packet one-way delay: 245.076 ms
Loss rate: 4.95%
Run 10: Report of PCC-Allegro — Data Link

![Throughput Graph]

- Flow 1 Ingress (mean 496.17 Mbit/s)
- Flow 1 Egress (mean 488.05 Mbit/s)
- Flow 2 Ingress (mean 128.44 Mbit/s)
- Flow 2 Egress (mean 128.03 Mbit/s)
- Flow 3 Ingress (mean 16.58 Mbit/s)
- Flow 3 Egress (mean 16.35 Mbit/s)

![Delay Graph]

- Flow 1 (95th percentile 244.90 ms)
- Flow 2 (95th percentile 244.76 ms)
- Flow 3 (95th percentile 245.08 ms)
Run 1: Statistics of PCC-Expr

Start at: 2018-06-06 17:29:37
End at: 2018-06-06 17:30:07
Local clock offset: 0.411 ms
Remote clock offset: 0.351 ms

# Below is generated by plot.py at 2018-06-06 23:09:25
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 403.81 Mbit/s
  95th percentile per-packet one-way delay: 324.614 ms
  Loss rate: 7.59%
-- Flow 1:
  Average throughput: 273.62 Mbit/s
  95th percentile per-packet one-way delay: 328.762 ms
  Loss rate: 10.16%
-- Flow 2:
  Average throughput: 175.11 Mbit/s
  95th percentile per-packet one-way delay: 137.026 ms
  Loss rate: 1.46%
-- Flow 3:
  Average throughput: 44.31 Mbit/s
  95th percentile per-packet one-way delay: 136.635 ms
  Loss rate: 3.20%
Run 1: Report of PCC-Expr — Data Link

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

- Flow 1 ingress (mean 301.83 Mbps)
- Flow 1 egress (mean 273.62 Mbps)
- Flow 2 ingress (mean 175.29 Mbps)
- Flow 2 egress (mean 175.11 Mbps)
- Flow 3 ingress (mean 44.52 Mbps)
- Flow 3 egress (mean 44.31 Mbps)

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

- Flow 1 (95th percentile 328.76 ms)
- Flow 2 (95th percentile 137.03 ms)
- Flow 3 (95th percentile 136.63 ms)
Run 2: Statistics of PCC-Expr

Start at: 2018-06-06 17:54:17
End at: 2018-06-06 17:54:47
Local clock offset: 0.704 ms
Remote clock offset: 0.156 ms

# Below is generated by plot.py at 2018-06-06 23:11:20
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 463.84 Mbit/s
  95th percentile per-packet one-way delay: 262.327 ms
  Loss rate: 3.83%
-- Flow 1:
  Average throughput: 324.83 Mbit/s
  95th percentile per-packet one-way delay: 267.550 ms
  Loss rate: 4.66%
-- Flow 2:
  Average throughput: 169.95 Mbit/s
  95th percentile per-packet one-way delay: 174.760 ms
  Loss rate: 1.50%
-- Flow 3:
  Average throughput: 81.72 Mbit/s
  95th percentile per-packet one-way delay: 185.790 ms
  Loss rate: 3.27%
Run 2: Report of PCC-Expr — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 337.59 Mbit/s)  Flow 1 egress (mean 324.83 Mbit/s)
Flow 2 ingress (mean 170.17 Mbit/s)  Flow 2 egress (mean 169.95 Mbit/s)
Flow 3 ingress (mean 82.16 Mbit/s)  Flow 3 egress (mean 81.72 Mbit/s)

Per packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 267.55 ms)  Flow 2 (95th percentile 174.76 ms)  Flow 3 (95th percentile 185.79 ms)
Run 3: Statistics of PCC-Expr

Start at: 2018-06-06 18:19:21
End at: 2018-06-06 18:19:51
Local clock offset: -0.106 ms
Remote clock offset: -0.327 ms

# Below is generated by plot.py at 2018-06-06 23:11:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 445.45 Mbit/s
95th percentile per-packet one-way delay: 308.797 ms
Loss rate: 6.50%
-- Flow 1:
Average throughput: 300.44 Mbit/s
95th percentile per-packet one-way delay: 313.468 ms
Loss rate: 8.54%
-- Flow 2:
Average throughput: 178.90 Mbit/s
95th percentile per-packet one-way delay: 188.211 ms
Loss rate: 1.75%
-- Flow 3:
Average throughput: 82.03 Mbit/s
95th percentile per-packet one-way delay: 192.635 ms
Loss rate: 3.01%
Run 3: Report of PCC-Expr — Data Link
Run 4: Statistics of PCC-Expr

Start at: 2018-06-06 18:43:59
End at: 2018-06-06 18:44:29
Local clock offset: -0.442 ms
Remote clock offset: -0.518 ms

# Below is generated by plot.py at 2018-06-06 23:17:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 447.13 Mbit/s
95th percentile per-packet one-way delay: 267.611 ms
Loss rate: 4.41%
-- Flow 1:
Average throughput: 319.36 Mbit/s
95th percentile per-packet one-way delay: 273.257 ms
Loss rate: 5.45%
-- Flow 2:
Average throughput: 171.20 Mbit/s
95th percentile per-packet one-way delay: 149.073 ms
Loss rate: 1.50%
-- Flow 3:
Average throughput: 44.68 Mbit/s
95th percentile per-packet one-way delay: 137.029 ms
Loss rate: 3.33%
Run 4: Report of PCC-Expr — Data Link
Run 5: Statistics of PCC-Expr

Start at: 2018-06-06 19:09:10
End at: 2018-06-06 19:09:40
Local clock offset: -0.207 ms
Remote clock offset: -0.559 ms

# Below is generated by plot.py at 2018-06-06 23:18:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 447.57 Mbit/s
95th percentile per-packet one-way delay: 308.361 ms
Loss rate: 7.85%
-- Flow 1:
Average throughput: 317.89 Mbit/s
95th percentile per-packet one-way delay: 316.871 ms
Loss rate: 9.91%
-- Flow 2:
Average throughput: 174.27 Mbit/s
95th percentile per-packet one-way delay: 177.395 ms
Loss rate: 2.15%
-- Flow 3:
Average throughput: 44.03 Mbit/s
95th percentile per-packet one-way delay: 199.826 ms
Loss rate: 4.29%
Run 5: Report of PCC-Expr — Data Link

Graph 1: Throughput (Mbit/s)
- Flow 1 ingress (mean 349.63 Mbit/s)
- Flow 1 egress (mean 317.89 Mbit/s)
- Flow 2 ingress (mean 175.64 Mbit/s)
- Flow 2 egress (mean 174.27 Mbit/s)
- Flow 3 ingress (mean 44.73 Mbit/s)
- Flow 3 egress (mean 44.03 Mbit/s)

Graph 2: Per-packet one-way delay (ms)
- Flow 1 (95th percentile 316.87 ms)
- Flow 2 (95th percentile 177.40 ms)
- Flow 3 (95th percentile 199.83 ms)
Run 6: Statistics of PCC-Expr

Start at: 2018-06-06 19:34:06
End at: 2018-06-06 19:34:36
Local clock offset: -0.802 ms
Remote clock offset: 0.411 ms

# Below is generated by plot.py at 2018-06-06 23:18:59
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 423.31 Mbit/s
  95th percentile per-packet one-way delay: 285.470 ms
  Loss rate: 4.20%
-- Flow 1:
  Average throughput: 280.90 Mbit/s
  95th percentile per-packet one-way delay: 294.265 ms
  Loss rate: 5.28%
-- Flow 2:
  Average throughput: 175.50 Mbit/s
  95th percentile per-packet one-way delay: 183.346 ms
  Loss rate: 1.58%
-- Flow 3:
  Average throughput: 82.18 Mbit/s
  95th percentile per-packet one-way delay: 137.209 ms
  Loss rate: 3.70%
Run 6: Report of PCC-Expr — Data Link
Run 7: Statistics of PCC-Expr

Start at: 2018-06-06 19:59:20
End at: 2018-06-06 19:59:50
Local clock offset: -0.917 ms
Remote clock offset: 0.42 ms

# Below is generated by plot.py at 2018-06-06 23:20:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 415.24 Mbit/s
95th percentile per-packet one-way delay: 219.743 ms
Loss rate: 2.11%
-- Flow 1:
Average throughput: 274.18 Mbit/s
95th percentile per-packet one-way delay: 240.037 ms
Loss rate: 2.24%
-- Flow 2:
Average throughput: 173.13 Mbit/s
95th percentile per-packet one-way delay: 137.666 ms
Loss rate: 1.51%
-- Flow 3:
Average throughput: 81.66 Mbit/s
95th percentile per-packet one-way delay: 137.633 ms
Loss rate: 3.40%
Run 7: Report of PCC-Expr — Data Link

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

- **Flow 1 ingress** (mean 277.89 Mbps)
- **Flow 1 egress** (mean 274.18 Mbps)
- **Flow 2 ingress** (mean 173.37 Mbps)
- **Flow 2 egress** (mean 173.13 Mbps)
- **Flow 3 ingress** (mean 82.19 Mbps)
- **Flow 3 egress** (mean 81.66 Mbps)

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

- **Flow 1** (95th percentile 240.04 ms)
- **Flow 2** (95th percentile 137.67 ms)
- **Flow 3** (95th percentile 137.63 ms)
Run 8: Statistics of PCC-Expr

Start at: 2018-06-06 20:24:18
End at: 2018-06-06 20:24:48
Local clock offset: 0.101 ms
Remote clock offset: 0.371 ms

# Below is generated by plot.py at 2018-06-06 23:22:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 450.40 Mbit/s
95th percentile per-packet one-way delay: 226.072 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 311.41 Mbit/s
95th percentile per-packet one-way delay: 247.499 ms
Loss rate: 1.21%
-- Flow 2:
Average throughput: 170.46 Mbit/s
95th percentile per-packet one-way delay: 139.217 ms
Loss rate: 1.55%
-- Flow 3:
Average throughput: 80.77 Mbit/s
95th percentile per-packet one-way delay: 150.398 ms
Loss rate: 3.37%
Run 9: Statistics of PCC-Expr

Start at: 2018-06-06 20:49:16
End at: 2018-06-06 20:49:46
Local clock offset: 0.431 ms
Remote clock offset: -0.095 ms

# Below is generated by plot.py at 2018-06-06 23:26:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 443.17 Mbit/s
95th percentile per-packet one-way delay: 275.025 ms
Loss rate: 3.22%
-- Flow 1:
Average throughput: 303.14 Mbit/s
95th percentile per-packet one-way delay: 279.271 ms
Loss rate: 3.82%
-- Flow 2:
Average throughput: 171.08 Mbit/s
95th percentile per-packet one-way delay: 157.864 ms
Loss rate: 1.56%
-- Flow 3:
Average throughput: 82.68 Mbit/s
95th percentile per-packet one-way delay: 153.912 ms
Loss rate: 3.27%
Run 9: Report of PCC-Expr — Data Link
Run 10: Statistics of PCC-Expr

Start at: 2018-06-06 21:14:21
End at: 2018-06-06 21:14:51
Local clock offset: 0.138 ms
Remote clock offset: 0.343 ms

# Below is generated by plot.py at 2018-06-06 23:26:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 395.23 Mbit/s
95th percentile per-packet one-way delay: 360.159 ms
Loss rate: 5.21%
-- Flow 1:
Average throughput: 283.91 Mbit/s
95th percentile per-packet one-way delay: 375.687 ms
Loss rate: 5.98%
-- Flow 2:
Average throughput: 165.02 Mbit/s
95th percentile per-packet one-way delay: 250.264 ms
Loss rate: 3.17%
-- Flow 3:
Average throughput: 6.62 Mbit/s
95th percentile per-packet one-way delay: 249.995 ms
Loss rate: 3.34%
Run 10: Report of PCC-Expr — Data Link
Run 1: Statistics of QUIC Cubic

Start at: 2018-06-06 17:50:08
End at: 2018-06-06 17:50:38
Local clock offset: 0.575 ms
Remote clock offset: -0.138 ms

# Below is generated by plot.py at 2018-06-06 23:26:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 113.65 Mbit/s
95th percentile per-packet one-way delay: 136.168 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 60.25 Mbit/s
95th percentile per-packet one-way delay: 135.167 ms
Loss rate: 1.39%
-- Flow 2:
Average throughput: 61.45 Mbit/s
95th percentile per-packet one-way delay: 134.820 ms
Loss rate: 0.32%
-- Flow 3:
Average throughput: 35.50 Mbit/s
95th percentile per-packet one-way delay: 136.254 ms
Loss rate: 5.60%
Run 1: Report of QUIC Cubic — Data Link
Run 2: Statistics of QUIC Cubic

Start at: 2018-06-06 18:15:08
End at: 2018-06-06 18:15:38
Local clock offset: -0.241 ms
Remote clock offset: -0.344 ms

# Below is generated by plot.py at 2018-06-06 23:26:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 110.66 Mbit/s
95th percentile per-packet one-way delay: 136.509 ms
Loss rate: 1.89%
-- Flow 1:
Average throughput: 63.10 Mbit/s
95th percentile per-packet one-way delay: 136.539 ms
Loss rate: 1.20%
-- Flow 2:
Average throughput: 52.01 Mbit/s
95th percentile per-packet one-way delay: 135.786 ms
Loss rate: 1.99%
-- Flow 3:
Average throughput: 40.47 Mbit/s
95th percentile per-packet one-way delay: 135.085 ms
Loss rate: 4.80%
Run 2: Report of QUIC Cubic — Data Link
Run 3: Statistics of QUIC Cubic

Start at: 2018-06-06 18:39:45
End at: 2018-06-06 18:40:15
Local clock offset: -0.396 ms
Remote clock offset: -0.473 ms

# Below is generated by plot.py at 2018-06-06 23:26:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 106.59 Mbit/s
95th percentile per-packet one-way delay: 136.266 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 54.95 Mbit/s
95th percentile per-packet one-way delay: 136.270 ms
Loss rate: 1.28%
-- Flow 2:
Average throughput: 61.34 Mbit/s
95th percentile per-packet one-way delay: 135.210 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 34.42 Mbit/s
95th percentile per-packet one-way delay: 136.353 ms
Loss rate: 0.64%
Run 3: Report of QUIC Cubic — Data Link

![Graph 1: Throughput (Mbps)]

- Blue dashed line: Flow 1 ingress (mean 55.15 Mbps)
- Blue solid line: Flow 1 egress (mean 54.95 Mbps)
- Green dashed line: Flow 2 ingress (mean 60.73 Mbps)
- Green solid line: Flow 2 egress (mean 61.34 Mbps)
- Red dashed line: Flow 3 ingress (mean 33.34 Mbps)
- Red solid line: Flow 3 egress (mean 34.42 Mbps)

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

- Blue dots: Flow 1 (95th percentile 136.27 ms)
- Green dots: Flow 2 (95th percentile 135.21 ms)
- Red dots: Flow 3 (95th percentile 136.35 ms)
Run 4: Statistics of QUIC Cubic

Start at: 2018-06-06 19:04:52
End at: 2018-06-06 19:05:22
Local clock offset: -0.559 ms
Remote clock offset: -0.264 ms

# Below is generated by plot.py at 2018-06-06 23:26:43
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 105.88 Mbit/s
  95th percentile per-packet one-way delay: 136.114 ms
  Loss rate: 1.68%
-- Flow 1:
  Average throughput: 60.40 Mbit/s
  95th percentile per-packet one-way delay: 136.141 ms
  Loss rate: 1.15%
-- Flow 2:
  Average throughput: 52.73 Mbit/s
  95th percentile per-packet one-way delay: 135.066 ms
  Loss rate: 2.02%
-- Flow 3:
  Average throughput: 32.78 Mbit/s
  95th percentile per-packet one-way delay: 135.591 ms
  Loss rate: 3.51%
Run 4: Report of QUIC Cubic — Data Link
Run 5: Statistics of QUIC Cubic

Start at: 2018-06-06 19:29:50
End at: 2018-06-06 19:30:20
Local clock offset: -0.665 ms
Remote clock offset: 0.02 ms

# Below is generated by plot.py at 2018-06-06 23:26:43
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 98.92 Mbit/s
  95th percentile per-packet one-way delay: 136.386 ms
  Loss rate: 1.39%
-- Flow 1:
  Average throughput: 55.07 Mbit/s
  95th percentile per-packet one-way delay: 136.393 ms
  Loss rate: 1.25%
-- Flow 2:
  Average throughput: 49.56 Mbit/s
  95th percentile per-packet one-way delay: 135.040 ms
  Loss rate: 2.07%
-- Flow 3:
  Average throughput: 34.04 Mbit/s
  95th percentile per-packet one-way delay: 136.436 ms
  Loss rate: 0.00%
Run 5: Report of QUIC Cubic — Data Link

[Graph showing data link throughput for different flows with time on the x-axis and throughput (Mbps) on the y-axis.]

[Graph showing per-packet round trip time for different flows with time on the x-axis and RTT (ms) on the y-axis.]
Run 6: Statistics of QUIC Cubic

Start at: 2018-06-06 19:55:05
End at: 2018-06-06 19:55:35
Local clock offset: -1.108 ms
Remote clock offset: 0.049 ms

# Below is generated by plot.py at 2018-06-06 23:26:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.14 Mbit/s
95th percentile per-packet one-way delay: 136.373 ms
Loss rate: 2.15%
-- Flow 1:
Average throughput: 51.97 Mbit/s
95th percentile per-packet one-way delay: 136.003 ms
Loss rate: 1.34%
-- Flow 2:
Average throughput: 49.59 Mbit/s
95th percentile per-packet one-way delay: 136.456 ms
Loss rate: 2.10%
-- Flow 3:
Average throughput: 37.93 Mbit/s
95th percentile per-packet one-way delay: 135.568 ms
Loss rate: 5.56%
Run 7: Statistics of QUIC Cubic

Start at: 2018-06-06 20:20:08
End at: 2018-06-06 20:20:38
Local clock offset: -0.519 ms
Remote clock offset: 0.394 ms

# Below is generated by plot.py at 2018-06-06 23:26:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 101.91 Mbit/s
95th percentile per-packet one-way delay: 135.438 ms
Loss rate: 2.04%
-- Flow 1:
Average throughput: 58.02 Mbit/s
95th percentile per-packet one-way delay: 135.447 ms
Loss rate: 1.09%
-- Flow 2:
Average throughput: 47.98 Mbit/s
95th percentile per-packet one-way delay: 135.264 ms
Loss rate: 2.13%
-- Flow 3:
Average throughput: 37.42 Mbit/s
95th percentile per-packet one-way delay: 135.477 ms
Loss rate: 6.15%
Run 7: Report of QUIC Cubic — Data Link

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

- **Flow 1 ingress (mean 58.13 Mbit/s)**
- **Flow 1 egress (mean 58.02 Mbit/s)**
- **Flow 2 ingress (mean 48.36 Mbit/s)**
- **Flow 2 egress (mean 47.95 Mbit/s)**
- **Flow 3 ingress (mean 36.78 Mbit/s)**
- **Flow 3 egress (mean 37.42 Mbit/s)**

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

- **Flow 1 (95th percentile 135.45 ms)**
- **Flow 2 (95th percentile 135.26 ms)**
- **Flow 3 (95th percentile 135.48 ms)**
Run 8: Statistics of QUIC Cubic

Start at: 2018-06-06 20:45:02
End at: 2018-06-06 20:45:32
Local clock offset: 0.635 ms
Remote clock offset: 0.311 ms

# Below is generated by plot.py at 2018-06-06 23:26:44
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 110.41 Mbit/s
  95th percentile per-packet one-way delay: 136.184 ms
  Loss rate: 1.46%
-- Flow 1:
  Average throughput: 61.70 Mbit/s
  95th percentile per-packet one-way delay: 135.649 ms
  Loss rate: 0.99%
-- Flow 2:
  Average throughput: 57.95 Mbit/s
  95th percentile per-packet one-way delay: 136.237 ms
  Loss rate: 1.79%
-- Flow 3:
  Average throughput: 31.91 Mbit/s
  95th percentile per-packet one-way delay: 135.673 ms
  Loss rate: 3.03%
Run 8: Report of QUIC Cubic — Data Link

![Graph showing throughput and packet round trip time with various flow patterns over time.](image)

Legend:
- Blue dashed line: Flow 1 ingress (mean 61.75 Mbit/s)
- Blue solid line: Flow 1 egress (mean 61.70 Mbit/s)
- Green dashed line: Flow 2 ingress (mean 58.20 Mbit/s)
- Green solid line: Flow 2 egress (mean 57.95 Mbit/s)
- Red dashed line: Flow 3 ingress (mean 32.00 Mbit/s)
- Red solid line: Flow 3 egress (mean 31.91 Mbit/s)
Run 9: Statistics of QUIC Cubic

Start at: 2018-06-06 21:10:01
End at: 2018-06-06 21:10:31
Local clock offset: 0.103 ms
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2018-06-06 23:26:44
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 112.47 Mbit/s
  95th percentile per-packet one-way delay: 136.040 ms
  Loss rate: 1.88%
-- Flow 1:
  Average throughput: 60.46 Mbit/s
  95th percentile per-packet one-way delay: 136.026 ms
  Loss rate: 1.32%
-- Flow 2:
  Average throughput: 59.41 Mbit/s
  95th percentile per-packet one-way delay: 135.906 ms
  Loss rate: 1.69%
-- Flow 3:
  Average throughput: 39.13 Mbit/s
  95th percentile per-packet one-way delay: 136.119 ms
  Loss rate: 4.98%
Run 9: Report of QUIC Cubic — Data Link

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

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 60.71 Mbps)
Flow 1 egress (mean 60.46 Mbps)
Flow 2 ingress (mean 59.60 Mbps)
Flow 2 egress (mean 59.41 Mbps)
Flow 3 ingress (mean 40.66 Mbps)
Flow 3 egress (mean 39.13 Mbps)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 136.03 ms)
Flow 2 (95th percentile 135.91 ms)
Flow 3 (95th percentile 136.12 ms)
Run 10: Statistics of QUIC Cubic

Start at: 2018-06-06 21:34:49
End at: 2018-06-06 21:35:19
Local clock offset: -0.361 ms
Remote clock offset: -0.095 ms

# Below is generated by plot.py at 2018-06-06 23:26:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 99.24 Mbit/s
95th percentile per-packet one-way delay: 136.407 ms
Loss rate: 1.47%
-- Flow 1:
Average throughput: 54.99 Mbit/s
95th percentile per-packet one-way delay: 136.435 ms
Loss rate: 1.29%
-- Flow 2:
Average throughput: 50.02 Mbit/s
95th percentile per-packet one-way delay: 135.577 ms
Loss rate: 2.05%
-- Flow 3:
Average throughput: 34.25 Mbit/s
95th percentile per-packet one-way delay: 135.498 ms
Loss rate: 0.63%
Run 10: Report of QUIC Cubic — Data Link
Run 1: Statistics of SCReAM

Start at: 2018-06-06 17:39:48
End at: 2018-06-06 17:40:18
Local clock offset: 0.026 ms
Remote clock offset: 0.003 ms

# Below is generated by plot.py at 2018-06-06 23:26:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 136.325 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.465 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.334 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.385 ms
Loss rate: 2.59%
Run 1: Report of SCReAM — Data Link

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

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

Start at: 2018-06-06 18:04:35
End at: 2018-06-06 18:05:05
Local clock offset: 0.29 ms
Remote clock offset: -0.259 ms

# Below is generated by plot.py at 2018-06-06 23:26:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 136.091 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.147 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.124 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.695 ms
Loss rate: 2.59%
Run 2: Report of SCReAM — Data Link

[Graph showing throughput and per-packet one-way delay]
Run 3: Statistics of SCReAM

Start at: 2018-06-06 18:29:33
End at: 2018-06-06 18:30:03
Local clock offset: -0.004 ms
Remote clock offset: -0.416 ms

# Below is generated by plot.py at 2018-06-06 23:26:44
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.44 Mbit/s
  95th percentile per-packet one-way delay: 136.089 ms
  Loss rate: 1.36%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 135.152 ms
  Loss rate: 0.89%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 136.083 ms
  Loss rate: 1.43%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 136.149 ms
  Loss rate: 2.59%
Run 3: Report of SCReAM — Data Link
Run 4: Statistics of SCReAM

Start at: 2018-06-06 18:54:14
End at: 2018-06-06 18:54:44
Local clock offset: -0.229 ms
Remote clock offset: -0.565 ms

# Below is generated by plot.py at 2018-06-06 23:26:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 136.635 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.646 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.711 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.197 ms
Loss rate: 2.59%
Run 4: Report of SCReAM — Data Link
Run 5: Statistics of SCReAM

Start at: 2018-06-06 19:19:01
End at: 2018-06-06 19:19:31
Local clock offset: -0.75 ms
Remote clock offset: 0.26 ms

# Below is generated by plot.py at 2018-06-06 23:26:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 135.947 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.940 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.964 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 134.935 ms
Loss rate: 2.59%
Run 5: Report of SCReAM — Data Link

Throughput (Mbps)

Time (s)

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

Per-connection one-way delay (ms)

Time (s)

Flow 1 (95th percentile 135.94 ms)
Flow 2 (95th percentile 135.96 ms)
Flow 3 (95th percentile 134.94 ms)
Run 6: Statistics of SCReAM

Start at: 2018-06-06 19:44:19
End at: 2018-06-06 19:44:49
Local clock offset: -0.833 ms
Remote clock offset: 0.105 ms

# Below is generated by plot.py at 2018-06-06 23:26:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 136.480 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.500 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.384 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.726 ms
Loss rate: 2.59%
Run 6: Report of SCReAM — Data Link
Run 7: Statistics of SCReAM

Start at: 2018-06-06 20:09:29
End at: 2018-06-06 20:09:59
Local clock offset: -1.171 ms
Remote clock offset: 0.075 ms

# Below is generated by plot.py at 2018-06-06 23:26:44
# Datalink statistics
-- Total of 3 flows:
   Average throughput: 0.44 Mbit/s
   95th percentile per-packet one-way delay: 135.844 ms
   Loss rate: 1.36%
-- Flow 1:
   Average throughput: 0.22 Mbit/s
   95th percentile per-packet one-way delay: 135.859 ms
   Loss rate: 0.89%
-- Flow 2:
   Average throughput: 0.22 Mbit/s
   95th percentile per-packet one-way delay: 135.620 ms
   Loss rate: 1.43%
-- Flow 3:
   Average throughput: 0.22 Mbit/s
   95th percentile per-packet one-way delay: 135.865 ms
   Loss rate: 2.59%
Run 7: Report of SCReAM — Data Link
Run 8: Statistics of SCReAM

Start at: 2018-06-06 20:34:18
End at: 2018-06-06 20:34:48
Local clock offset: 0.546 ms
Remote clock offset: -0.064 ms

# Below is generated by plot.py at 2018-06-06 23:26:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 136.317 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.220 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.345 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.343 ms
Loss rate: 2.59%
Run 8: Report of SCReAM — Data Link

Throughput (Mbps)

Time (s)

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

Perceived one-way delay (ms)

Time (s)

Flow 1 (95th percentile 136.22 ms)  Flow 2 (95th percentile 136.34 ms)  Flow 3 (95th percentile 136.34 ms)
Run 9: Statistics of SCReAM

Start at: 2018-06-06 20:59:30
End at: 2018-06-06 21:00:00
Local clock offset: 0.247 ms
Remote clock offset: 0.336 ms

# Below is generated by plot.py at 2018-06-06 23:26:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 136.431 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.273 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.640 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.503 ms
Loss rate: 2.59%
Run 9: Report of SCReAM — Data Link

Throughput (Mb/s)

Time (s)

Flow 1 ingress (mean 0.22 Mb/s) — Flow 1 egress (mean 0.22 Mb/s)
Flow 2 ingress (mean 0.22 Mb/s) — Flow 2 egress (mean 0.22 Mb/s)
Flow 3 ingress (mean 0.22 Mb/s) — Flow 3 egress (mean 0.22 Mb/s)

Round-trip one-way delay (ms)

Time (s)

Flow 1 (95th percentile 135.27 ms) — Flow 2 (95th percentile 135.64 ms) — Flow 3 (95th percentile 136.50 ms)
Run 10: Statistics of SCReAM

Start at: 2018-06-06 21:24:30
End at: 2018-06-06 21:25:00
Local clock offset: -0.101 ms
Remote clock offset: -0.05 ms

# Below is generated by plot.py at 2018-06-06 23:26:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 136.621 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.407 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.653 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.661 ms
Loss rate: 2.59%
Run 10: Report of SCReAM — Data Link

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

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

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

Flow 1 (95th percentile 135.41 ms) - Flow 2 (95th percentile 136.65 ms) - Flow 3 (95th percentile 135.66 ms)
Run 1: Statistics of Sprout

Start at: 2018-06-06 17:41:04
End at: 2018-06-06 17:41:34
Local clock offset: 0.426 ms
Remote clock offset: 0.005 ms

# Below is generated by plot.py at 2018-06-06 23:26:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 136.459 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 136.488 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 136.346 ms
Loss rate: 1.34%
-- Flow 3:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 136.415 ms
Loss rate: 1.53%
Run 1: Report of Sprout — Data Link

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

- **Flow 1 ingress (mean 0.17 Mbit/s)**
- **Flow 1 egress (mean 0.17 Mbit/s)**
- **Flow 2 ingress (mean 0.14 Mbit/s)**
- **Flow 2 egress (mean 0.14 Mbit/s)**
- **Flow 3 ingress (mean 0.16 Mbit/s)**
- **Flow 3 egress (mean 0.17 Mbit/s)**

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

- **Flow 1 (95th percentile 136.49 ms)**
- **Flow 2 (95th percentile 136.35 ms)**
- **Flow 3 (95th percentile 136.41 ms)**
Run 2: Statistics of Sprout

Start at: 2018-06-06 18:05:50
End at: 2018-06-06 18:06:20
Local clock offset: 0.022 ms
Remote clock offset: -0.294 ms

# Below is generated by plot.py at 2018-06-06 23:26:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 136.534 ms
Loss rate: 0.73%

-- Flow 1:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 136.555 ms
Loss rate: 0.59%

-- Flow 2:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 135.811 ms
Loss rate: 1.12%

-- Flow 3:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 135.915 ms
Loss rate: 0.52%
Run 2: Report of Sprout — Data Link

[Graph showing throughput over time with different colored lines for different flows.]

[Graph showing per-packet one-way delay with different colored dots for different flows.]

Flow 1 (95th percentile 136.56 ms)  Flow 2 (95th percentile 135.81 ms)  Flow 3 (95th percentile 135.91 ms)
Run 3: Statistics of Sprout

Start at: 2018-06-06 18:30:48
End at: 2018-06-06 18:31:18
Local clock offset: -0.47 ms
Remote clock offset: -0.046 ms

# Below is generated by plot.py at 2018-06-06 23:26:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 135.796 ms
Loss rate: 1.92%
-- Flow 1:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 135.314 ms
Loss rate: 0.81%
-- Flow 2:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 135.829 ms
Loss rate: 3.46%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 135.421 ms
Loss rate: 1.73%
Run 3: Report of Sprout — Data Link
Run 4: Statistics of Sprout

Start at: 2018-06-06 18:55:29
End at: 2018-06-06 18:55:59
Local clock offset: -0.416 ms
Remote clock offset: -0.572 ms

# Below is generated by plot.py at 2018-06-06 23:26:44
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.34 Mbit/s
  95th percentile per-packet one-way delay: 136.385 ms
  Loss rate: 1.28%
-- Flow 1:
  Average throughput: 0.15 Mbit/s
  95th percentile per-packet one-way delay: 136.407 ms
  Loss rate: 0.62%
-- Flow 2:
  Average throughput: 0.15 Mbit/s
  95th percentile per-packet one-way delay: 136.105 ms
  Loss rate: 1.54%
-- Flow 3:
  Average throughput: 0.30 Mbit/s
  95th percentile per-packet one-way delay: 136.082 ms
  Loss rate: 2.02%
Run 4: Report of Sprout — Data Link

![Graph 1](image1.png)

![Graph 2](image2.png)
Run 5: Statistics of Sprout

Start at: 2018-06-06 19:20:16
End at: 2018-06-06 19:20:46
Local clock offset: -0.967 ms
Remote clock offset: 0.254 ms

# Below is generated by plot.py at 2018-06-06 23:26:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 135.924 ms
Loss rate: 1.81%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 135.577 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 135.969 ms
Loss rate: 1.35%
-- Flow 3:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 135.901 ms
Loss rate: 4.68%
Run 5: Report of Sprout — Data Link
Run 6: Statistics of Sprout

Start at: 2018-06-06 19:45:34
End at: 2018-06-06 19:46:04
Local clock offset: -0.607 ms
Remote clock offset: 0.05 ms

# Below is generated by plot.py at 2018-06-06 23:26:44
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.30 Mbit/s
  95th percentile per-packet one-way delay: 136.202 ms
  Loss rate: 0.97%
-- Flow 1:
  Average throughput: 0.15 Mbit/s
  95th percentile per-packet one-way delay: 136.097 ms
  Loss rate: 0.53%
-- Flow 2:
  Average throughput: 0.15 Mbit/s
  95th percentile per-packet one-way delay: 136.238 ms
  Loss rate: 1.61%
-- Flow 3:
  Average throughput: 0.16 Mbit/s
  95th percentile per-packet one-way delay: 136.149 ms
  Loss rate: 1.04%
Run 6: Report of Sprout — Data Link
Run 7: Statistics of Sprout

Start at: 2018-06-06 20:10:44
End at: 2018-06-06 20:11:14
Local clock offset: -0.704 ms
Remote clock offset: 0.092 ms

# Below is generated by plot.py at 2018-06-06 23:26:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 136.227 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 136.211 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 136.192 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 136.297 ms
Loss rate: 2.69%
Run 7: Report of Sprout — Data Link

- Throughput (Mbps)
  - Flow 1 ingress (mean 0.17 Mbit/s)
  - Flow 1 egress (mean 0.17 Mbit/s)
  - Flow 2 ingress (mean 0.17 Mbit/s)
  - Flow 2 egress (mean 0.17 Mbit/s)
  - Flow 3 ingress (mean 0.18 Mbit/s)
  - Flow 3 egress (mean 0.18 Mbit/s)

- End-to-end one-way delay (ms)
  - Flow 1 (95th percentile 136.21 ms)
  - Flow 2 (95th percentile 136.19 ms)
  - Flow 3 (95th percentile 136.30 ms)
Run 8: Statistics of Sprout

Start at: 2018-06-06 20:35:33
End at: 2018-06-06 20:36:03
Local clock offset: 0.385 ms
Remote clock offset: 0.359 ms

# Below is generated by plot.py at 2018-06-06 23:26:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 135.607 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 135.596 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 135.530 ms
Loss rate: 1.34%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.690 ms
Loss rate: 1.13%
Run 8: Report of Sprout — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 0.16 Mbit/s)
Flow 1 egress (mean 0.16 Mbit/s)
Flow 2 ingress (mean 0.18 Mbit/s)
Flow 2 egress (mean 0.18 Mbit/s)
Flow 3 ingress (mean 0.22 Mbit/s)
Flow 3 egress (mean 0.22 Mbit/s)

Round-trip one-way delay (ms)

Time (s)

Flow 1 (95th percentile 135.60 ms)
Flow 2 (95th percentile 135.53 ms)
Flow 3 (95th percentile 135.69 ms)
Run 9: Statistics of Sprout

Start at: 2018-06-06 21:00:45
End at: 2018-06-06 21:01:15
Local clock offset: 0.587 ms
Remote clock offset: 0.362 ms

# Below is generated by plot.py at 2018-06-06 23:26:44
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.38 Mbit/s
  95th percentile per-packet one-way delay: 136.093 ms
  Loss rate: 1.35%
-- Flow 1:
  Average throughput: 0.16 Mbit/s
  95th percentile per-packet one-way delay: 136.053 ms
  Loss rate: 1.93%
-- Flow 2:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 136.124 ms
  Loss rate: 1.15%
-- Flow 3:
  Average throughput: 0.25 Mbit/s
  95th percentile per-packet one-way delay: 135.999 ms
  Loss rate: 0.51%
Run 9: Report of Sprout — Data Link
Run 10: Statistics of Sprout

Start at: 2018-06-06 21:25:45
End at: 2018-06-06 21:26:15
Local clock offset: 0.418 ms
Remote clock offset: 0.321 ms

# Below is generated by plot.py at 2018-06-06 23:26:44
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.34 Mbit/s
  95th percentile per-packet one-way delay: 136.171 ms
  Loss rate: 1.12%
-- Flow 1:
  Average throughput: 0.17 Mbit/s
  95th percentile per-packet one-way delay: 136.130 ms
  Loss rate: 0.87%
-- Flow 2:
  Average throughput: 0.17 Mbit/s
  95th percentile per-packet one-way delay: 136.146 ms
  Loss rate: 1.10%
-- Flow 3:
  Average throughput: 0.20 Mbit/s
  95th percentile per-packet one-way delay: 136.239 ms
  Loss rate: 1.84%
Run 10: Report of Sprout — Data Link
Run 1: Statistics of TaoVA-100x

Start at: 2018-06-06 17:42:19
End at: 2018-06-06 17:42:49
Local clock offset: 0.39 ms
Remote clock offset: 0.341 ms

# Below is generated by plot.py at 2018-06-06 23:26:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 65.13 Mbit/s
95th percentile per-packet one-way delay: 135.892 ms
Loss rate: 3.44%
-- Flow 1:
Average throughput: 13.10 Mbit/s
95th percentile per-packet one-way delay: 135.860 ms
Loss rate: 0.93%
-- Flow 2:
Average throughput: 13.19 Mbit/s
95th percentile per-packet one-way delay: 135.893 ms
Loss rate: 1.38%
-- Flow 3:
Average throughput: 132.75 Mbit/s
95th percentile per-packet one-way delay: 135.901 ms
Loss rate: 4.57%
Run 1: Report of TaoVA-100x — Data Link

![Graph 1](image1.png)

![Graph 2](image2.png)
Run 2: Statistics of TaoVA-100x

Start at: 2018-06-06 18:07:05
End at: 2018-06-06 18:07:36
Local clock offset: 0.023 ms
Remote clock offset: -0.3 ms

# Below is generated by plot.py at 2018-06-06 23:26:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 153.87 Mbit/s
95th percentile per-packet one-way delay: 135.907 ms
Loss rate: 1.47%
-- Flow 1:
Average throughput: 13.37 Mbit/s
95th percentile per-packet one-way delay: 135.831 ms
Loss rate: 0.93%
-- Flow 2:
Average throughput: 205.61 Mbit/s
95th percentile per-packet one-way delay: 135.905 ms
Loss rate: 1.48%
-- Flow 3:
Average throughput: 12.71 Mbit/s
95th percentile per-packet one-way delay: 136.107 ms
Loss rate: 2.91%
Run 2: Report of TaoVA-100x — Data Link

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

![Graph showing per-packet one-way delay over time for different flows.](image2)
Run 3: Statistics of TaoVA-100x

Start at: 2018-06-06 18:32:03
End at: 2018-06-06 18:32:33
Local clock offset: -0.423 ms
Remote clock offset: -0.435 ms

# Below is generated by plot.py at 2018-06-06 23:26:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 26.32 Mbit/s
95th percentile per-packet one-way delay: 136.332 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 13.34 Mbit/s
95th percentile per-packet one-way delay: 136.372 ms
Loss rate: 0.92%
-- Flow 2:
Average throughput: 13.27 Mbit/s
95th percentile per-packet one-way delay: 135.659 ms
Loss rate: 1.38%
-- Flow 3:
Average throughput: 12.83 Mbit/s
95th percentile per-packet one-way delay: 135.646 ms
Loss rate: 2.84%
Run 3: Report of TaoVA-100x — Data Link

![Graph of Throughput](image1)

![Graph of Latency](image2)

Legend:
- Flow 1 ingress (mean 13.34 Mbit/s)
- Flow 1 egress (mean 13.34 Mbit/s)
- Flow 2 ingress (mean 13.27 Mbit/s)
- Flow 2 egress (mean 13.27 Mbit/s)
- Flow 3 ingress (mean 12.85 Mbit/s)
- Flow 3 egress (mean 12.63 Mbit/s)

Legend for Latency:
- Flow 1 (95th percentile 136.37 ms)
- Flow 2 (95th percentile 135.66 ms)
- Flow 3 (95th percentile 135.65 ms)
Run 4: Statistics of TaoVA-100x

Start at: 2018-06-06 18:56:44
End at: 2018-06-06 18:57:14
Local clock offset: -0.393 ms
Remote clock offset: -0.206 ms

# Below is generated by plot.py at 2018-06-06 23:30:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 218.74 Mbit/s
95th percentile per-packet one-way delay: 135.632 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 205.85 Mbit/s
95th percentile per-packet one-way delay: 135.608 ms
Loss rate: 1.03%
-- Flow 2:
Average throughput: 13.23 Mbit/s
95th percentile per-packet one-way delay: 135.936 ms
Loss rate: 1.41%
-- Flow 3:
Average throughput: 12.62 Mbit/s
95th percentile per-packet one-way delay: 135.849 ms
Loss rate: 2.77%
Run 4: Report of TaoVA-100x — Data Link

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

- Flow 1 ingress (mean 206.10 Mb/s)
- Flow 1 egress (mean 205.85 Mb/s)
- Flow 2 ingress (mean 13.24 Mb/s)
- Flow 2 egress (mean 13.23 Mb/s)
- Flow 3 ingress (mean 12.62 Mb/s)
- Flow 3 egress (mean 12.62 Mb/s)

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

- Flow 1 (95th percentile 135.61 ms)
- Flow 2 (95th percentile 135.94 ms)
- Flow 3 (95th percentile 135.85 ms)
Run 5: Statistics of TaoVA-100x

Start at: 2018-06-06 19:21:31
End at: 2018-06-06 19:22:01
Local clock offset: -0.728 ms
Remote clock offset: -0.08 ms

# Below is generated by plot.py at 2018-06-06 23:34:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 337.66 Mbit/s
95th percentile per-packet one-way delay: 136.732 ms
Loss rate: 1.24%
-- Flow 1:
Average throughput: 207.68 Mbit/s
95th percentile per-packet one-way delay: 136.437 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 189.73 Mbit/s
95th percentile per-packet one-way delay: 137.104 ms
Loss rate: 1.62%
-- Flow 3:
Average throughput: 12.75 Mbit/s
95th percentile per-packet one-way delay: 137.063 ms
Loss rate: 2.91%
Run 5: Report of TaoVA-100x — Data Link
Run 6: Statistics of TaoVA-100x

Start at: 2018-06-06 19:46:49
End at: 2018-06-06 19:47:19
Local clock offset: -0.726 ms
Remote clock offset: 0.085 ms

# Below is generated by plot.py at 2018-06-06 23:34:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 298.94 Mbit/s
95th percentile per-packet one-way delay: 139.736 ms
Loss rate: 1.31%
-- Flow 1:
Average throughput: 157.64 Mbit/s
95th percentile per-packet one-way delay: 138.728 ms
Loss rate: 1.31%
-- Flow 2:
Average throughput: 164.44 Mbit/s
95th percentile per-packet one-way delay: 138.526 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 100.07 Mbit/s
95th percentile per-packet one-way delay: 145.946 ms
Loss rate: 3.15%
Run 6: Report of TaoVA-100x — Data Link

![Graph of throughput over time with labels for flow ingress and egress speeds for Flow 1, 2, and 3.]

![Graph of per-packet one-way delay over time with markers for 95th percentile values for Flow 1, 2, and 3.]
Run 7: Statistics of TaoVA-100x

Start at: 2018-06-06 20:11:59
End at: 2018-06-06 20:12:29
Local clock offset: -0.675 ms
Remote clock offset: 0.475 ms

# Below is generated by plot.py at 2018-06-06 23:34:23
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 260.46 Mbit/s
  95th percentile per-packet one-way delay: 136.053 ms
  Loss rate: 1.66%
-- Flow 1:
  Average throughput: 197.01 Mbit/s
  95th percentile per-packet one-way delay: 135.944 ms
  Loss rate: 1.03%
-- Flow 2:
  Average throughput: 13.01 Mbit/s
  95th percentile per-packet one-way delay: 136.568 ms
  Loss rate: 1.30%
-- Flow 3:
  Average throughput: 168.16 Mbit/s
  95th percentile per-packet one-way delay: 137.338 ms
  Loss rate: 3.92%
Run 7: Report of TaoVA-100x — Data Link
Run 8: Statistics of TaoVA-100x

Start at: 2018-06-06 20:36:48
End at: 2018-06-06 20:37:18
Local clock offset: 0.718 ms
Remote clock offset: -0.067 ms

# Below is generated by plot.py at 2018-06-06 23:34:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 198.96 Mbit/s
95th percentile per-packet one-way delay: 136.853 ms
Loss rate: 2.07%
-- Flow 1:
Average throughput: 13.23 Mbit/s
95th percentile per-packet one-way delay: 136.502 ms
Loss rate: 0.91%
-- Flow 2:
Average throughput: 193.93 Mbit/s
95th percentile per-packet one-way delay: 136.639 ms
Loss rate: 1.58%
-- Flow 3:
Average throughput: 175.18 Mbit/s
95th percentile per-packet one-way delay: 137.321 ms
Loss rate: 3.42%
Run 8: Report of TaoVA-100x — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 13.23 Mbit/s)
Flow 1 egress (mean 13.23 Mbit/s)
Flow 2 ingress (mean 194.37 Mbit/s)
Flow 2 egress (mean 193.93 Mbit/s)
Flow 3 ingress (mean 176.43 Mbit/s)
Flow 3 egress (mean 175.18 Mbit/s)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 136.50 ms)
Flow 2 (95th percentile 136.64 ms)
Flow 3 (95th percentile 137.32 ms)
Run 9: Statistics of TaoVA-100x

Start at: 2018-06-06 21:02:00
End at: 2018-06-06 21:02:30
Local clock offset: 0.602 ms
Remote clock offset: -0.023 ms

# Below is generated by plot.py at 2018-06-06 23:34:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 215.72 Mbit/s
95th percentile per-packet one-way delay: 136.496 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 202.87 Mbit/s
95th percentile per-packet one-way delay: 136.498 ms
Loss rate: 1.05%
-- Flow 2:
Average throughput: 13.12 Mbit/s
95th percentile per-packet one-way delay: 136.487 ms
Loss rate: 1.38%
-- Flow 3:
Average throughput: 12.73 Mbit/s
95th percentile per-packet one-way delay: 136.371 ms
Loss rate: 2.93%
Run 9: Report of TaoVA-100x — Data Link

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

Legend:
- Blue dashed line: Flow 1 ingress (mean 203.16 Mbit/s)
- Blue solid line: Flow 1 egress (mean 202.87 Mbit/s)
- Green dashed line: Flow 2 ingress (mean 13.13 Mbit/s)
- Green solid line: Flow 2 egress (mean 13.12 Mbit/s)
- Red dashed line: Flow 3 ingress (mean 12.76 Mbit/s)
- Red solid line: Flow 3 egress (mean 12.73 Mbit/s)
Run 10: Statistics of TaoVA-100x

Start at: 2018-06-06 21:27:00
End at: 2018-06-06 21:27:30
Local clock offset: -0.252 ms
Remote clock offset: -0.049 ms

# Below is generated by plot.py at 2018-06-06 23:34:23
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 26.37 Mbit/s
  95th percentile per-packet one-way delay: 135.765 ms
  Loss rate: 1.40%
-- Flow 1:
  Average throughput: 13.34 Mbit/s
  95th percentile per-packet one-way delay: 135.722 ms
  Loss rate: 0.93%
-- Flow 2:
  Average throughput: 13.28 Mbit/s
  95th percentile per-packet one-way delay: 135.808 ms
  Loss rate: 1.40%
-- Flow 3:
  Average throughput: 12.94 Mbit/s
  95th percentile per-packet one-way delay: 135.742 ms
  Loss rate: 2.83%
Run 10: Report of TaoVA-100x — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 13.35 Mbps)
- Flow 1 egress (mean 13.34 Mbps)
- Flow 2 ingress (mean 13.29 Mbps)
- Flow 2 egress (mean 13.28 Mbps)
- Flow 3 ingress (mean 12.95 Mbps)
- Flow 3 egress (mean 12.94 Mbps)

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

- Flow 1 (95th percentile 135.72 ms)
- Flow 2 (95th percentile 135.81 ms)
- Flow 3 (95th percentile 135.74 ms)
Run 1: Statistics of TCP Vegas

Start at: 2018-06-06 17:35:51
End at: 2018-06-06 17:36:21
Local clock offset: 0.386 ms
Remote clock offset: 0.105 ms

# Below is generated by plot.py at 2018-06-06 23:34:23
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 69.99 Mbit/s
  95th percentile per-packet one-way delay: 138.632 ms
  Loss rate: 1.70%
-- Flow 1:
  Average throughput: 18.42 Mbit/s
  95th percentile per-packet one-way delay: 137.514 ms
  Loss rate: 1.06%
-- Flow 2:
  Average throughput: 59.86 Mbit/s
  95th percentile per-packet one-way delay: 138.105 ms
  Loss rate: 1.50%
-- Flow 3:
  Average throughput: 36.66 Mbit/s
  95th percentile per-packet one-way delay: 142.120 ms
  Loss rate: 3.30%
Run 1: Report of TCP Vegas — Data Link
Run 2: Statistics of TCP Vegas

Start at: 2018-06-06 18:00:37
End at: 2018-06-06 18:01:07
Local clock offset: 0.463 ms
Remote clock offset: -0.22 ms

# Below is generated by plot.py at 2018-06-06 23:34:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 68.65 Mbit/s
95th percentile per-packet one-way delay: 137.034 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 33.12 Mbit/s
95th percentile per-packet one-way delay: 137.026 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 40.60 Mbit/s
95th percentile per-packet one-way delay: 136.981 ms
Loss rate: 1.51%
-- Flow 3:
Average throughput: 26.41 Mbit/s
95th percentile per-packet one-way delay: 137.569 ms
Loss rate: 3.34%
Run 3: Statistics of TCP Vegas

Start at: 2018-06-06 18:25:36
End at: 2018-06-06 18:26:06
Local clock offset: -0.555 ms
Remote clock offset: -0.0 ms

# Below is generated by plot.py at 2018-06-06 23:34:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.34 Mbit/s
95th percentile per-packet one-way delay: 137.163 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 29.97 Mbit/s
95th percentile per-packet one-way delay: 138.590 ms
Loss rate: 0.94%
-- Flow 2:
Average throughput: 62.43 Mbit/s
95th percentile per-packet one-way delay: 136.479 ms
Loss rate: 1.53%
-- Flow 3:
Average throughput: 21.51 Mbit/s
95th percentile per-packet one-way delay: 140.599 ms
Loss rate: 2.95%
Run 3: Report of TCP Vegas — Data Link

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

- Flow 1 ingress (mean 29.98 Mbps)
- Flow 1 egress (mean 29.97 Mbps)
- Flow 2 ingress (mean 62.54 Mbps)
- Flow 2 egress (mean 62.43 Mbps)
- Flow 3 ingress (mean 21.56 Mbps)
- Flow 3 egress (mean 21.51 Mbps)

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

- Flow 1 (95th percentile 138.59 ms)
- Flow 2 (95th percentile 136.48 ms)
- Flow 3 (95th percentile 140.60 ms)
Run 4: Statistics of TCP Vegas

Start at: 2018-06-06 18:50:16
End at: 2018-06-06 18:50:46
Local clock offset: -0.24 ms
Remote clock offset: -0.165 ms

# Below is generated by plot.py at 2018-06-06 23:34:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.73 Mbit/s
95th percentile per-packet one-way delay: 137.934 ms
Loss rate: 1.34%
-- Flow 1:
Average throughput: 46.09 Mbit/s
95th percentile per-packet one-way delay: 137.551 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 37.32 Mbit/s
95th percentile per-packet one-way delay: 138.611 ms
Loss rate: 1.51%
-- Flow 3:
Average throughput: 24.26 Mbit/s
95th percentile per-packet one-way delay: 137.736 ms
Loss rate: 2.95%
Run 4: Report of TCP Vegas — Data Link
Run 5: Statistics of TCP Vegas

Start at: 2018-06-06 19:15:03
End at: 2018-06-06 19:15:33
Local clock offset: -0.465 ms
Remote clock offset: 0.134 ms

# Below is generated by plot.py at 2018-06-06 23:34:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.18 Mbit/s
95th percentile per-packet one-way delay: 140.732 ms
Loss rate: 1.74%
-- Flow 1:
Average throughput: 45.53 Mbit/s
95th percentile per-packet one-way delay: 137.064 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 27.87 Mbit/s
95th percentile per-packet one-way delay: 139.114 ms
Loss rate: 1.47%
-- Flow 3:
Average throughput: 71.74 Mbit/s
95th percentile per-packet one-way delay: 142.158 ms
Loss rate: 3.39%
Run 5: Report of TCP Vegas — Data Link
Run 6: Statistics of TCP Vegas

Start at: 2018-06-06 19:40:19
End at: 2018-06-06 19:40:49
Local clock offset: -0.926 ms
Remote clock offset: 0.069 ms

# Below is generated by plot.py at 2018-06-06 23:34:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.63 Mbit/s
95th percentile per-packet one-way delay: 142.112 ms
Loss rate: 1.60%
-- Flow 1:
Average throughput: 31.07 Mbit/s
95th percentile per-packet one-way delay: 140.500 ms
Loss rate: 0.95%
-- Flow 2:
Average throughput: 81.45 Mbit/s
95th percentile per-packet one-way delay: 142.624 ms
Loss rate: 1.54%
-- Flow 3:
Average throughput: 39.59 Mbit/s
95th percentile per-packet one-way delay: 140.777 ms
Loss rate: 3.37%
Run 6: Report of TCP Vegas — Data Link

![Graph showing throughput and latency over time for three flows with different ingress and egress rates and latency percentiles.]

- Flow 1 (ingress mean 31.08 Mbit/s, egress mean 31.07 Mbit/s)
- Flow 2 (ingress mean 31.60 Mbit/s, egress mean 31.15 Mbit/s)
- Flow 3 (ingress mean 39.65 Mbit/s, egress mean 39.59 Mbit/s)

- Latency percentiles: Flow 1 (95th percentile 140.50 ms), Flow 2 (95th percentile 142.62 ms), Flow 3 (95th percentile 140.78 ms)
Run 7: Statistics of TCP Vegas

Start at: 2018-06-06 20:05:30
End at: 2018-06-06 20:06:00
Local clock offset: -0.811 ms
Remote clock offset: 0.051 ms

# Below is generated by plot.py at 2018-06-06 23:34:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 61.68 Mbit/s
95th percentile per-packet one-way delay: 137.334 ms
Loss rate: 1.72%
-- Flow 1:
Average throughput: 21.58 Mbit/s
95th percentile per-packet one-way delay: 137.393 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 40.54 Mbit/s
95th percentile per-packet one-way delay: 137.149 ms
Loss rate: 1.46%
-- Flow 3:
Average throughput: 40.63 Mbit/s
95th percentile per-packet one-way delay: 137.798 ms
Loss rate: 3.40%
Run 7: Report of TCP Vegas — Data Link

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

- Flow 1 ingress (mean 21.60 Mbps)
- Flow 1 egress (mean 21.58 Mbps)
- Flow 2 ingress (mean 40.57 Mbps)
- Flow 2 egress (mean 40.54 Mbps)
- Flow 3 ingress (mean 40.91 Mbps)
- Flow 3 egress (mean 40.63 Mbps)

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

- Flow 1 (95th percentile 137.39 ms)
- Flow 2 (95th percentile 137.15 ms)
- Flow 3 (95th percentile 137.80 ms)
Run 8: Statistics of TCP Vegas

Start at: 2018-06-06 20:30:20
End at: 2018-06-06 20:30:50
Local clock offset: 0.283 ms
Remote clock offset: -0.001 ms

# Below is generated by plot.py at 2018-06-06 23:34:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.79 Mbit/s
95th percentile per-packet one-way delay: 142.862 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 36.32 Mbit/s
95th percentile per-packet one-way delay: 139.833 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 80.73 Mbit/s
95th percentile per-packet one-way delay: 143.323 ms
Loss rate: 1.54%
-- Flow 3:
Average throughput: 23.02 Mbit/s
95th percentile per-packet one-way delay: 138.997 ms
Loss rate: 2.92%
Run 8: Report of TCP Vegas — Data Link
Run 9: Statistics of TCP Vegas

End at: 2018-06-06 20:56:01
Local clock offset: 0.725 ms
Remote clock offset: -0.032 ms

# Below is generated by plot.py at 2018-06-06 23:34:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.98 Mbit/s
95th percentile per-packet one-way delay: 142.793 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 35.96 Mbit/s
95th percentile per-packet one-way delay: 140.338 ms
Loss rate: 0.94%
-- Flow 2:
Average throughput: 80.31 Mbit/s
95th percentile per-packet one-way delay: 143.359 ms
Loss rate: 1.54%
-- Flow 3:
Average throughput: 23.97 Mbit/s
95th percentile per-packet one-way delay: 137.290 ms
Loss rate: 3.25%
Run 9: Report of TCP Vegas — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 35.97 Mbps)
Flow 2 ingress (mean 80.47 Mbps)
Flow 3 ingress (mean 24.10 Mbps)
Flow 1 egress (mean 35.96 Mbps)
Flow 2 egress (mean 80.31 Mbps)
Flow 3 egress (mean 23.97 Mbps)

One-way delay (ms)

Time (s)

Flow 1 (95th percentile 140.34 ms)
Flow 2 (95th percentile 143.36 ms)
Flow 3 (95th percentile 137.29 ms)
Run 10: Statistics of TCP Vegas

Start at: 2018-06-06 21:20:33
End at: 2018-06-06 21:21:03
Local clock offset: -0.134 ms
Remote clock offset: -0.02 ms

# Below is generated by plot.py at 2018-06-06 23:34:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 71.43 Mbit/s
95th percentile per-packet one-way delay: 137.719 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 45.67 Mbit/s
95th percentile per-packet one-way delay: 138.132 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 24.91 Mbit/s
95th percentile per-packet one-way delay: 137.040 ms
Loss rate: 1.41%
-- Flow 3:
Average throughput: 28.47 Mbit/s
95th percentile per-packet one-way delay: 137.942 ms
Loss rate: 3.18%
Run 10: Report of TCP Vegas — Data Link

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

**Throughput** (Mbps/s)

- **Flow 1 ingress** (mean 45.71 Mbps/s)
- **Flow 1 egress** (mean 45.67 Mbps/s)
- **Flow 2 ingress** (mean 24.93 Mbps/s)
- **Flow 2 egress** (mean 24.91 Mbps/s)
- **Flow 3 ingress** (mean 28.60 Mbps/s)
- **Flow 3 egress** (mean 26.47 Mbps/s)

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

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

- **Flow 1** (95th percentile 138.13 ms)
- **Flow 2** (95th percentile 137.04 ms)
- **Flow 3** (95th percentile 137.94 ms)
Run 1: Statistics of Verus

Start at: 2018-06-06 17:52:46
End at: 2018-06-06 17:53:16
Local clock offset: 0.514 ms
Remote clock offset: -0.159 ms

# Below is generated by plot.py at 2018-06-06 23:35:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 188.06 Mbit/s
95th percentile per-packet one-way delay: 246.945 ms
Loss rate: 2.41%
-- Flow 1:
Average throughput: 83.18 Mbit/s
95th percentile per-packet one-way delay: 179.805 ms
Loss rate: 1.99%
-- Flow 2:
Average throughput: 88.16 Mbit/s
95th percentile per-packet one-way delay: 217.517 ms
Loss rate: 2.55%
-- Flow 3:
Average throughput: 143.68 Mbit/s
95th percentile per-packet one-way delay: 333.657 ms
Loss rate: 2.96%
Run 1: Report of Verus — Data Link
Run 2: Statistics of Verus

Start at: 2018-06-06 18:17:47
End at: 2018-06-06 18:18:17
Local clock offset: 0.017 ms
Remote clock offset: -0.346 ms

# Below is generated by plot.py at 2018-06-06 23:36:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 224.91 Mbit/s
95th percentile per-packet one-way delay: 334.353 ms
Loss rate: 6.44%
-- Flow 1:
Average throughput: 196.50 Mbit/s
95th percentile per-packet one-way delay: 336.359 ms
Loss rate: 7.01%
-- Flow 2:
Average throughput: 27.46 Mbit/s
95th percentile per-packet one-way delay: 233.147 ms
Loss rate: 1.67%
-- Flow 3:
Average throughput: 35.66 Mbit/s
95th percentile per-packet one-way delay: 243.009 ms
Loss rate: 3.89%
Run 2: Report of Verus — Data Link

![Graph of Throughput and Packet Delay](image-url)
Run 3: Statistics of Verus

Start at: 2018-06-06 18:42:23
End at: 2018-06-06 18:42:53
Local clock offset: -0.363 ms
Remote clock offset: -0.487 ms

# Below is generated by plot.py at 2018-06-06 23:37:12
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 243.84 Mbit/s
  95th percentile per-packet one-way delay: 246.899 ms
  Loss rate: 1.87%
 -- Flow 1:
  Average throughput: 153.19 Mbit/s
  95th percentile per-packet one-way delay: 248.553 ms
  Loss rate: 1.74%
 -- Flow 2:
  Average throughput: 106.74 Mbit/s
  95th percentile per-packet one-way delay: 204.709 ms
  Loss rate: 0.85%
 -- Flow 3:
  Average throughput: 64.78 Mbit/s
  95th percentile per-packet one-way delay: 276.522 ms
  Loss rate: 6.09%
Run 3: Report of Verus — Data Link

![Diagram of network throughput and packet delay over time for different flows.]
Run 4: Statistics of Verus

Start at: 2018-06-06 19:07:31
End at: 2018-06-06 19:08:01
Local clock offset: -0.423 ms
Remote clock offset: -0.624 ms

# Below is generated by plot.py at 2018-06-06 23:38:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 297.18 Mbit/s
95th percentile per-packet one-way delay: 230.825 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 186.27 Mbit/s
95th percentile per-packet one-way delay: 184.299 ms
Loss rate: 0.88%
-- Flow 2:
Average throughput: 95.22 Mbit/s
95th percentile per-packet one-way delay: 224.016 ms
Loss rate: 2.22%
-- Flow 3:
Average throughput: 150.04 Mbit/s
95th percentile per-packet one-way delay: 317.731 ms
Loss rate: 1.15%
Run 4: Report of Verus — Data Link

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

- Flow 1 ingress (mean 186.92 Mbit/s)
- Flow 1 egress (mean 186.27 Mbit/s)
- Flow 2 ingress (mean 95.71 Mbit/s)
- Flow 2 egress (mean 95.22 Mbit/s)
- Flow 3 ingress (mean 147.56 Mbit/s)
- Flow 3 egress (mean 150.04 Mbit/s)

- Flow 1 (95th percentile 184.30 ms)
- Flow 2 (95th percentile 224.02 ms)
- Flow 3 (95th percentile 317.73 ms)
Run 5: Statistics of Verus

Start at: 2018-06-06 19:32:28
End at: 2018-06-06 19:32:59
Local clock offset: -0.84 ms
Remote clock offset: 0.061 ms

# Below is generated by plot.py at 2018-06-06 23:38:28
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 267.33 Mbit/s
  95th percentile per-packet one-way delay: 188.887 ms
  Loss rate: 1.86%
-- Flow 1:
  Average throughput: 193.85 Mbit/s
  95th percentile per-packet one-way delay: 184.519 ms
  Loss rate: 0.87%
-- Flow 2:
  Average throughput: 88.23 Mbit/s
  95th percentile per-packet one-way delay: 312.423 ms
  Loss rate: 5.25%
-- Flow 3:
  Average throughput: 48.23 Mbit/s
  95th percentile per-packet one-way delay: 153.269 ms
  Loss rate: 0.90%
Run 5: Report of Verus — Data Link

![Graph of throughput over time with labels for different flows and their mean throughputs.]

![Graph of per-packet one-way delay over time with labels for different flows and their 95th percentile delays.]

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Run 6: Statistics of Verus

Start at: 2018-06-06 19:57:43
End at: 2018-06-06 19:58:13
Local clock offset: -0.571 ms
Remote clock offset: 0.042 ms

# Below is generated by plot.py at 2018-06-06 23:38:28
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 276.78 Mbit/s
  95th percentile per-packet one-way delay: 175.618 ms
  Loss rate: 1.01%
-- Flow 1:
  Average throughput: 231.11 Mbit/s
  95th percentile per-packet one-way delay: 177.908 ms
  Loss rate: 0.84%
-- Flow 2:
  Average throughput: 49.00 Mbit/s
  95th percentile per-packet one-way delay: 162.542 ms
  Loss rate: 0.13%
-- Flow 3:
  Average throughput: 40.63 Mbit/s
  95th percentile per-packet one-way delay: 171.119 ms
  Loss rate: 5.97%
Run 6: Report of Verus — Data Link
Run 7: Statistics of Verus

Start at: 2018-06-06 20:22:46
End at: 2018-06-06 20:23:16
Local clock offset: -0.453 ms
Remote clock offset: 0.388 ms

# Below is generated by plot.py at 2018-06-06 23:38:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 190.90 Mbit/s
95th percentile per-packet one-way delay: 232.605 ms
Loss rate: 2.32%
-- Flow 1:
Average throughput: 92.44 Mbit/s
95th percentile per-packet one-way delay: 162.463 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 101.24 Mbit/s
95th percentile per-packet one-way delay: 279.181 ms
Loss rate: 2.01%
-- Flow 3:
Average throughput: 99.31 Mbit/s
95th percentile per-packet one-way delay: 143.266 ms
Loss rate: 8.06%
Run 7: Report of Verus — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 91.90 Mbps)
  - Flow 1 egress (mean 92.44 Mbps)
  - Flow 2 ingress (mean 101.90 Mbps)
  - Flow 2 egress (mean 101.24 Mbps)
  - Flow 3 ingress (mean 105.07 Mbps)
  - Flow 3 egress (mean 99.31 Mbps)

- **Packet Delay (ms):**
  - Flow 1 (95th percentile 162.46 ms)
  - Flow 2 (95th percentile 279.18 ms)
  - Flow 3 (95th percentile 143.27 ms)
Run 8: Statistics of Verus

Start at: 2018-06-06 20:47:41
End at: 2018-06-06 20:48:11
Local clock offset: 0.652 ms
Remote clock offset: 0.316 ms

# Below is generated by plot.py at 2018-06-06 23:38:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 225.96 Mbit/s
95th percentile per-packet one-way delay: 219.858 ms
Loss rate: 2.84%
-- Flow 1:
Average throughput: 114.93 Mbit/s
95th percentile per-packet one-way delay: 177.587 ms
Loss rate: 5.22%
-- Flow 2:
Average throughput: 149.05 Mbit/s
95th percentile per-packet one-way delay: 254.013 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 38.52 Mbit/s
95th percentile per-packet one-way delay: 144.900 ms
Loss rate: 2.15%
Run 8: Report of Verus — Data Link

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

Legend:
- Flow 1 ingress (mean 120.17 Mbit/s)
- Flow 1 egress (mean 114.93 Mbit/s)
- Flow 2 ingress (mean 147.02 Mbit/s)
- Flow 2 egress (mean 149.05 Mbit/s)
- Flow 3 ingress (mean 38.26 Mbit/s)
- Flow 3 egress (mean 38.52 Mbit/s)

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

Legend:
- Flow 1 (95th percentile 177.59 ms)
- Flow 2 (95th percentile 254.01 ms)
- Flow 3 (95th percentile 144.90 ms)
Run 9: Statistics of Verus

Start at: 2018-06-06 21:12:40
End at: 2018-06-06 21:13:10
Local clock offset: 0.204 ms
Remote clock offset: -0.05 ms

# Below is generated by plot.py at 2018-06-06 23:41:09
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 325.54 Mbit/s
  95th percentile per-packet one-way delay: 205.772 ms
  Loss rate: 1.11%
-- Flow 1:
  Average throughput: 216.73 Mbit/s
  95th percentile per-packet one-way delay: 209.818 ms
  Loss rate: 0.99%
-- Flow 2:
  Average throughput: 127.45 Mbit/s
  95th percentile per-packet one-way delay: 180.173 ms
  Loss rate: 0.03%
-- Flow 3:
  Average throughput: 78.44 Mbit/s
  95th percentile per-packet one-way delay: 225.044 ms
  Loss rate: 5.37%
Run 9: Report of Verus — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 216.04 Mbps)
  - Flow 1 egress (mean 216.73 Mbps)
  - Flow 2 ingress (mean 125.74 Mbps)
  - Flow 2 egress (mean 127.45 Mbps)
  - Flow 3 ingress (mean 80.62 Mbps)
  - Flow 3 egress (mean 78.44 Mbps)

- **Per-packet one-way delay (ms):**
  - Flow 1 (95th percentile 209.82 ms)
  - Flow 2 (95th percentile 180.17 ms)
  - Flow 3 (95th percentile 225.04 ms)
Run 10: Statistics of Verus

Start at: 2018-06-06 21:37:28
End at: 2018-06-06 21:37:58
Local clock offset: -0.308 ms
Remote clock offset: -0.072 ms

# Below is generated by plot.py at 2018-06-06 23:41:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 236.25 Mbit/s
95th percentile per-packet one-way delay: 171.851 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 192.49 Mbit/s
95th percentile per-packet one-way delay: 172.135 ms
Loss rate: 1.47%
-- Flow 2:
Average throughput: 52.71 Mbit/s
95th percentile per-packet one-way delay: 173.632 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 27.61 Mbit/s
95th percentile per-packet one-way delay: 145.868 ms
Loss rate: 3.05%
Run 10: Report of Verus — Data Link

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

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 193.60 Mbps)
Flow 1 egress (mean 192.49 Mbps)
Flow 2 ingress (mean 51.99 Mbps)
Flow 2 egress (mean 52.71 Mbps)
Flow 3 ingress (mean 27.68 Mbps)
Flow 3 egress (mean 27.61 Mbps)

Delay (ms)

Time (s)

Flow 1 (95th percentile 172.13 ms)
Flow 2 (95th percentile 173.63 ms)
Flow 3 (95th percentile 145.87 ms)
Run 1: Statistics of PCC-Vivace

Start at: 2018-06-06 17:33:54
End at: 2018-06-06 17:34:24
Local clock offset: 0.479 ms
Remote clock offset: 0.54 ms

# Below is generated by plot.py at 2018-06-06 23:45:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 499.25 Mbit/s
95th percentile per-packet one-way delay: 144.679 ms
Loss rate: 2.04%
-- Flow 1:
Average throughput: 307.49 Mbit/s
95th percentile per-packet one-way delay: 159.951 ms
Loss rate: 1.65%
-- Flow 2:
Average throughput: 235.34 Mbit/s
95th percentile per-packet one-way delay: 138.605 ms
Loss rate: 1.82%
-- Flow 3:
Average throughput: 111.12 Mbit/s
95th percentile per-packet one-way delay: 160.290 ms
Loss rate: 6.09%
Run 1: Report of PCC-Vivace — Data Link

[Graph 1: Throughput vs Time]

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

Flow 1 ingress (mean 309.82 Mbit/s)  Flow 1 egress (mean 307.49 Mbit/s)
Flow 2 ingress (mean 236.40 Mbit/s)  Flow 2 egress (mean 235.34 Mbit/s)
Flow 3 ingress (mean 115.64 Mbit/s)  Flow 3 egress (mean 111.12 Mbit/s)
Run 2: Statistics of PCC-Vivace

Start at: 2018-06-06 17:58:37
End at: 2018-06-06 17:59:07
Local clock offset: 0.512 ms
Remote clock offset: 0.185 ms

# Below is generated by plot.py at 2018-06-06 23:46:39
# Datalink statistics
-- Total of 3 flows:
   Average throughput: 533.51 Mbit/s
   95th percentile per-packet one-way delay: 150.288 ms
   Loss rate: 1.54%
   -- Flow 1:
      Average throughput: 324.19 Mbit/s
      95th percentile per-packet one-way delay: 141.730 ms
      Loss rate: 0.94%
   -- Flow 2:
      Average throughput: 257.10 Mbit/s
      95th percentile per-packet one-way delay: 207.584 ms
      Loss rate: 1.96%
   -- Flow 3:
      Average throughput: 120.76 Mbit/s
      95th percentile per-packet one-way delay: 208.503 ms
      Loss rate: 4.58%
Run 2: Report of PCC-Vivace — Data Link

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

- **Flow 1 ingress (mean 324.30 Mbit/s)**
- **Flow 1 egress (mean 324.19 Mbit/s)**
- **Flow 2 ingress (mean 258.65 Mbit/s)**
- **Flow 2 egress (mean 257.10 Mbit/s)**
- **Flow 3 ingress (mean 123.07 Mbit/s)**
- **Flow 3 egress (mean 120.76 Mbit/s)**

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

- **Flow 1 (95th percentile 141.73 ms)**
- **Flow 2 (95th percentile 207.58 ms)**
- **Flow 3 (95th percentile 208.50 ms)**

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Run 3: Statistics of PCC-Vivace

Start at: 2018-06-06 18:23:40
End at: 2018-06-06 18:24:10
Local clock offset: -0.418 ms
Remote clock offset: -0.393 ms

# Below is generated by plot.py at 2018-06-06 23:47:14
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 502.95 Mbit/s
  95th percentile per-packet one-way delay: 190.571 ms
  Loss rate: 1.38%
-- Flow 1:
  Average throughput: 322.78 Mbit/s
  95th percentile per-packet one-way delay: 177.656 ms
  Loss rate: 0.50%
-- Flow 2:
  Average throughput: 185.29 Mbit/s
  95th percentile per-packet one-way delay: 137.146 ms
  Loss rate: 2.22%
-- Flow 3:
  Average throughput: 177.64 Mbit/s
  95th percentile per-packet one-way delay: 222.954 ms
  Loss rate: 4.39%
Run 3: Report of PCC-Vivace — Data Link

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

- Flow 1 ingress (mean 321.84 Mbps)
- Flow 1 egress (mean 322.78 Mbps)
- Flow 2 ingress (mean 186.91 Mbps)
- Flow 2 egress (mean 185.29 Mbps)
- Flow 3 ingress (mean 190.68 Mbps)
- Flow 3 egress (mean 177.64 Mbps)

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

- Flow 1 (95th percentile 177.66 ms)
- Flow 2 (95th percentile 137.15 ms)
- Flow 3 (95th percentile 222.95 ms)
Run 4: Statistics of PCC-Vivace

Start at: 2018-06-06 18:48:18
End at: 2018-06-06 18:48:48
Local clock offset: -0.401 ms
Remote clock offset: -0.554 ms

# Below is generated by plot.py at 2018-06-06 23:47:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 513.47 Mbit/s
95th percentile per-packet one-way delay: 157.739 ms
Loss rate: 2.05%
-- Flow 1:
Average throughput: 286.29 Mbit/s
95th percentile per-packet one-way delay: 186.359 ms
Loss rate: 1.59%
-- Flow 2:
Average throughput: 279.72 Mbit/s
95th percentile per-packet one-way delay: 144.302 ms
Loss rate: 1.75%
-- Flow 3:
Average throughput: 129.76 Mbit/s
95th percentile per-packet one-way delay: 142.598 ms
Loss rate: 6.30%
Run 4: Report of PCC-Vivace — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 288.28 Mbps)
  - Flow 1 egress (mean 286.29 Mbps)
  - Flow 2 ingress (mean 280.79 Mbps)
  - Flow 2 egress (mean 279.72 Mbps)
  - Flow 3 ingress (mean 134.61 Mbps)
  - Flow 3 egress (mean 129.76 Mbps)

- **Per-packet one-way delay (ms):**
  - Flow 1 (95th percentile 186.36 ms)
  - Flow 2 (95th percentile 144.30 ms)
  - Flow 3 (95th percentile 142.60 ms)
Run 5: Statistics of PCC-Vivace

Start at: 2018-06-06 19:13:10
End at: 2018-06-06 19:13:40
Local clock offset: -0.57 ms
Remote clock offset: 0.067 ms

# Below is generated by plot.py at 2018-06-06 23:47:50
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 464.04 Mbit/s
  95th percentile per-packet one-way delay: 143.357 ms
  Loss rate: 1.50%
-- Flow 1:
  Average throughput: 314.75 Mbit/s
  95th percentile per-packet one-way delay: 147.222 ms
  Loss rate: 1.12%
-- Flow 2:
  Average throughput: 194.78 Mbit/s
  95th percentile per-packet one-way delay: 137.223 ms
  Loss rate: 1.97%
-- Flow 3:
  Average throughput: 62.82 Mbit/s
  95th percentile per-packet one-way delay: 135.729 ms
  Loss rate: 4.38%
Run 5: Report of PCC-Vivace — Data Link
Run 6: Statistics of PCC-Vivace

Start at: 2018-06-06 19:38:22
End at: 2018-06-06 19:38:52
Local clock offset: ~0.547 ms
Remote clock offset: 0.059 ms

# Below is generated by plot.py at 2018-06-06 23:47:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 502.14 Mbit/s
95th percentile per-packet one-way delay: 211.733 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 337.81 Mbit/s
95th percentile per-packet one-way delay: 228.840 ms
Loss rate: 1.58%
-- Flow 2:
Average throughput: 167.99 Mbit/s
95th percentile per-packet one-way delay: 136.996 ms
Loss rate: 1.79%
-- Flow 3:
Average throughput: 167.29 Mbit/s
95th percentile per-packet one-way delay: 220.772 ms
Loss rate: 0.24%
Run 6: Report of PCC-Vivace — Data Link

- **Flow 1 ingress (mean 340.10 Mbit/s)**
- **Flow 1 egress (mean 337.81 Mbit/s)**
- **Flow 2 ingress (mean 168.70 Mbit/s)**
- **Flow 2 egress (mean 167.99 Mbit/s)**
- **Flow 3 ingress (mean 161.64 Mbit/s)**
- **Flow 3 egress (mean 167.29 Mbit/s)**

- **Flow 1 (95th percentile 228.84 ms)**
- **Flow 2 (95th percentile 137.00 ms)**
- **Flow 3 (95th percentile 220.77 ms)**
Run 7: Statistics of PCC-Vivace

Start at: 2018-06-06 20:03:37
End at: 2018-06-06 20:04:07
Local clock offset: -0.826 ms
Remote clock offset: 0.054 ms

# Below is generated by plot.py at 2018-06-06 23:48:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 459.96 Mbit/s
95th percentile per-packet one-way delay: 146.540 ms
Loss rate: 1.62%
-- Flow 1:
Average throughput: 312.67 Mbit/s
95th percentile per-packet one-way delay: 174.233 ms
Loss rate: 1.16%
-- Flow 2:
Average throughput: 162.53 Mbit/s
95th percentile per-packet one-way delay: 137.355 ms
Loss rate: 1.66%
-- Flow 3:
Average throughput: 122.58 Mbit/s
95th percentile per-packet one-way delay: 142.003 ms
Loss rate: 4.98%
Run 8: Statistics of PCC-Vivace

Start at: 2018-06-06 20:28:35
End at: 2018-06-06 20:29:05
Local clock offset: 0.142 ms
Remote clock offset: -0.032 ms

# Below is generated by plot.py at 2018-06-06 23:48:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 340.76 Mbit/s
95th percentile per-packet one-way delay: 136.470 ms
Loss rate: 1.56%
-- Flow 1:
Average throughput: 195.32 Mbit/s
95th percentile per-packet one-way delay: 136.448 ms
Loss rate: 1.09%
-- Flow 2:
Average throughput: 186.72 Mbit/s
95th percentile per-packet one-way delay: 136.489 ms
Loss rate: 1.80%
-- Flow 3:
Average throughput: 67.37 Mbit/s
95th percentile per-packet one-way delay: 136.504 ms
Loss rate: 4.26%
Run 8: Report of PCC-Vivace — Data Link

![Graph showing data link performance metrics]

**Throughput (Mbps)**

- Flow 1 ingress (mean 195.68 Mbps)
- Flow 1 egress (mean 195.32 Mbps)
- Flow 2 ingress (mean 187.46 Mbps)
- Flow 2 egress (mean 186.72 Mbps)
- Flow 3 ingress (mean 69.42 Mbps)
- Flow 3 egress (mean 67.37 Mbps)

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

- Flow 1 (95th percentile 136.45 ms)
- Flow 2 (95th percentile 136.49 ms)
- Flow 3 (95th percentile 136.50 ms)
Run 9: Statistics of PCC-Vivace

Start at: 2018-06-06 20:53:33
End at: 2018-06-06 20:54:03
Local clock offset: 0.568 ms
Remote clock offset: 0.311 ms

# Below is generated by plot.py at 2018-06-06 23:49:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 532.55 Mbit/s
95th percentile per-packet one-way delay: 168.874 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 322.10 Mbit/s
95th percentile per-packet one-way delay: 192.220 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 260.49 Mbit/s
95th percentile per-packet one-way delay: 147.228 ms
Loss rate: 1.17%
-- Flow 3:
Average throughput: 117.54 Mbit/s
95th percentile per-packet one-way delay: 138.392 ms
Loss rate: 5.33%
Run 9: Report of PCC-Vivace — Data Link

Throughput (Mb/s)

Time (s)

Flow 1 ingress (mean 322.77 Mb/s)  Flow 1 egress (mean 322.10 Mb/s)
Flow 2 ingress (mean 259.96 Mb/s)  Flow 2 egress (mean 260.49 Mb/s)
Flow 3 ingress (mean 120.74 Mb/s)  Flow 3 egress (mean 117.54 Mb/s)

Packet delivery delay (ms)

Time (s)

Flow 1 (95th percentile 192.22 ms)  Flow 2 (95th percentile 147.23 ms)  Flow 3 (95th percentile 138.39 ms)
Run 10: Statistics of PCC-Vivace

Start at: 2018-06-06 21:18:34
End at: 2018-06-06 21:19:04
Local clock offset: 0.174 ms
Remote clock offset: 0.325 ms

# Below is generated by plot.py at 2018-06-06 23:49:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 517.15 Mbit/s
95th percentile per-packet one-way delay: 175.283 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 301.67 Mbit/s
95th percentile per-packet one-way delay: 145.008 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 264.00 Mbit/s
95th percentile per-packet one-way delay: 219.174 ms
Loss rate: 2.04%
-- Flow 3:
Average throughput: 125.69 Mbit/s
95th percentile per-packet one-way delay: 136.971 ms
Loss rate: 4.52%
Run 10: Report of PCC-Vivace — Data Link
Run 1: Statistics of WebRTC media

Start at: 2018-06-06 17:37:11
End at: 2018-06-06 17:37:41
Local clock offset: 0.598 ms
Remote clock offset: 0.436 ms

# Below is generated by plot.py at 2018-06-06 23:49:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.00 Mbit/s
95th percentile per-packet one-way delay: 136.159 ms
Loss rate: 1.98%
-- Flow 1:
Average throughput: 1.53 Mbit/s
95th percentile per-packet one-way delay: 135.743 ms
Loss rate: 1.42%
-- Flow 2:
Average throughput: 1.11 Mbit/s
95th percentile per-packet one-way delay: 135.777 ms
Loss rate: 1.97%
-- Flow 3:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 136.283 ms
Loss rate: 4.25%
Run 1: Report of WebRTC media — Data Link

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

Throughput (Mb/s) vs. Time (s)
- Flow 1 ingress (mean 1.54 Mb/s)
- Flow 1 egress (mean 1.53 Mb/s)
- Flow 2 ingress (mean 1.13 Mb/s)
- Flow 2 egress (mean 1.11 Mb/s)
- Flow 3 ingress (mean 0.40 Mb/s)
- Flow 3 egress (mean 0.38 Mb/s)

Packet delay (ms) vs. Time (s)
- Flow 1 (95th percentile 135.74 ms)
- Flow 2 (95th percentile 135.78 ms)
- Flow 3 (95th percentile 136.28 ms)
Run 2: Statistics of WebRTC media

Start at: 2018-06-06 18:01:57
End at: 2018-06-06 18:02:27
Local clock offset: 0.218 ms
Remote clock offset: -0.214 ms

# Below is generated by plot.py at 2018-06-06 23:49:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.30 Mbit/s
95th percentile per-packet one-way delay: 136.707 ms
Loss rate: 2.30%
-- Flow 1:
Average throughput: 1.85 Mbit/s
95th percentile per-packet one-way delay: 136.704 ms
Loss rate: 1.82%
-- Flow 2:
Average throughput: 1.10 Mbit/s
95th percentile per-packet one-way delay: 135.897 ms
Loss rate: 2.26%
-- Flow 3:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 136.770 ms
Loss rate: 4.78%
Run 2: Report of WebRTC media — Data Link

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

![Graph of Per-packet one way delay (ms) over time](image2)
Run 3: Statistics of WebRTC media

Start at: 2018-06-06 18:26:56
End at: 2018-06-06 18:27:26
Local clock offset: -0.062 ms
Remote clock offset: -0.372 ms

# Below is generated by plot.py at 2018-06-06 23:49:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.28 Mbit/s
95th percentile per-packet one-way delay: 136.495 ms
Loss rate: 1.86%
-- Flow 1:
Average throughput: 1.83 Mbit/s
95th percentile per-packet one-way delay: 136.108 ms
Loss rate: 1.42%
-- Flow 2:
Average throughput: 1.11 Mbit/s
95th percentile per-packet one-way delay: 135.246 ms
Loss rate: 1.69%
-- Flow 3:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 136.602 ms
Loss rate: 4.51%
Run 3: Report of WebRTC media — Data Link
Run 4: Statistics of WebRTC media

Start at: 2018-06-06 18:51:36
End at: 2018-06-06 18:52:06
Local clock offset: -0.449 ms
Remote clock offset: -0.197 ms

# Below is generated by plot.py at 2018-06-06 23:49:32
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 3.31 Mbit/s
  95th percentile per-packet one-way delay: 136.285 ms
  Loss rate: 2.26%
-- Flow 1:
  Average throughput: 1.85 Mbit/s
  95th percentile per-packet one-way delay: 135.777 ms
  Loss rate: 1.97%
-- Flow 2:
  Average throughput: 1.11 Mbit/s
  95th percentile per-packet one-way delay: 136.327 ms
  Loss rate: 1.63%
-- Flow 3:
  Average throughput: 0.39 Mbit/s
  95th percentile per-packet one-way delay: 135.609 ms
  Loss rate: 5.46%
Run 4: Report of WebRTC media — Data Link
Run 5: Statistics of WebRTC media

Start at: 2018-06-06 19:16:24
End at: 2018-06-06 19:16:54
Local clock offset: -0.808 ms
Remote clock offset: -0.232 ms

# Below is generated by plot.py at 2018-06-06 23:49:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.28 Mbit/s
95th percentile per-packet one-way delay: 136.420 ms
Loss rate: 2.03%
-- Flow 1:
Average throughput: 1.83 Mbit/s
95th percentile per-packet one-way delay: 134.688 ms
Loss rate: 1.80%
-- Flow 2:
Average throughput: 1.11 Mbit/s
95th percentile per-packet one-way delay: 136.312 ms
Loss rate: 1.86%
-- Flow 3:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 136.518 ms
Loss rate: 3.67%
Run 5: Report of WebRTC media — Data Link

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

Start at: 2018-06-06 19:41:40
End at: 2018-06-06 19:42:10
Local clock offset: -0.744 ms
Remote clock offset: 0.497 ms

# Below is generated by plot.py at 2018-06-06 23:49:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.26 Mbit/s
95th percentile per-packet one-way delay: 136.083 ms
Loss rate: 1.79%
-- Flow 1:
Average throughput: 1.82 Mbit/s
95th percentile per-packet one-way delay: 135.247 ms
Loss rate: 1.25%
-- Flow 2:
Average throughput: 1.10 Mbit/s
95th percentile per-packet one-way delay: 136.131 ms
Loss rate: 1.80%
-- Flow 3:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 135.693 ms
Loss rate: 4.37%
Run 6: Report of WebRTC media — Data Link

![Graph](attachment:graph.png)

- Flow 1 ingress (mean 1.83 Mbit/s)
- Flow 1 egress (mean 1.62 Mbit/s)
- Flow 2 ingress (mean 1.11 Mbit/s)
- Flow 2 egress (mean 1.10 Mbit/s)
- Flow 3 ingress (mean 0.39 Mbit/s)
- Flow 3 egress (mean 0.37 Mbit/s)

![Graph](attachment:graph2.png)

- Flow 1 (95th percentile 135.25 ms)
- Flow 2 (95th percentile 136.13 ms)
- Flow 3 (95th percentile 115.69 ms)
Run 7: Statistics of WebRTC media

Start at: 2018-06-06 20:06:50
End at: 2018-06-06 20:07:20
Local clock offset: -0.838 ms
Remote clock offset: 0.481 ms

# Below is generated by plot.py at 2018-06-06 23:49:32
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 3.29 Mbit/s
  95th percentile per-packet one-way delay: 135.999 ms
  Loss rate: 1.73%
-- Flow 1:
  Average throughput: 1.84 Mbit/s
  95th percentile per-packet one-way delay: 135.821 ms
  Loss rate: 1.36%
-- Flow 2:
  Average throughput: 1.10 Mbit/s
  95th percentile per-packet one-way delay: 136.034 ms
  Loss rate: 2.00%
-- Flow 3:
  Average throughput: 0.38 Mbit/s
  95th percentile per-packet one-way delay: 135.758 ms
  Loss rate: 2.73%
Run 7: Report of WebRTC media — Data Link
Run 8: Statistics of WebRTC media

Start at: 2018-06-06 20:31:41
End at: 2018-06-06 20:32:11
Local clock offset: -0.023 ms
Remote clock offset: -0.049 ms

# Below is generated by plot.py at 2018-06-06 23:49:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.29 Mbit/s
95th percentile per-packet one-way delay: 135.835 ms
Loss rate: 1.90%
-- Flow 1:
Average throughput: 1.83 Mbit/s
95th percentile per-packet one-way delay: 135.855 ms
Loss rate: 1.53%
-- Flow 2:
Average throughput: 1.11 Mbit/s
95th percentile per-packet one-way delay: 135.566 ms
Loss rate: 1.72%
-- Flow 3:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 135.679 ms
Loss rate: 4.24%
Run 9: Statistics of WebRTC media

Start at: 2018-06-06 20:56:53
End at: 2018-06-06 20:57:23
Local clock offset: 0.589 ms
Remote clock offset: -0.049 ms

# Below is generated by plot.py at 2018-06-06 23:49:32
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 3.26 Mbit/s
  95th percentile per-packet one-way delay: 136.410 ms
  Loss rate: 2.09%
-- Flow 1:
  Average throughput: 1.84 Mbit/s
  95th percentile per-packet one-way delay: 136.419 ms
  Loss rate: 1.60%
-- Flow 2:
  Average throughput: 1.09 Mbit/s
  95th percentile per-packet one-way delay: 136.394 ms
  Loss rate: 1.95%
-- Flow 3:
  Average throughput: 0.35 Mbit/s
  95th percentile per-packet one-way delay: 136.323 ms
  Loss rate: 5.07%
Run 9: Report of WebRTC media — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 1.06 Mbit/s)
- Flow 1 egress (mean 1.64 Mbit/s)
- Flow 2 ingress (mean 1.10 Mbit/s)
- Flow 2 egress (mean 1.09 Mbit/s)
- Flow 3 ingress (mean 0.37 Mbit/s)
- Flow 3 egress (mean 0.35 Mbit/s)

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

- Flow 1 (95th percentile 136.42 ms)
- Flow 2 (95th percentile 136.39 ms)
- Flow 3 (95th percentile 136.32 ms)
Run 10: Statistics of WebRTC media

Start at: 2018-06-06 21:21:52
Local clock offset: -0.011 ms
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2018-06-06 23:49:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.25 Mbit/s
95th percentile per-packet one-way delay: 136.667 ms
Loss rate: 1.53%
-- Flow 1:
Average throughput: 1.82 Mbit/s
95th percentile per-packet one-way delay: 136.284 ms
Loss rate: 1.32%
-- Flow 2:
Average throughput: 1.09 Mbit/s
95th percentile per-packet one-way delay: 136.714 ms
Loss rate: 1.63%
-- Flow 3:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 136.098 ms
Loss rate: 2.25%
Run 10: Report of WebRTC media — Data Link

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**Throughput (Mbps)**

- Flow 1 ingress (mean 1.83 Mbps)
- Flow 1 egress (mean 1.82 Mbps)
- Flow 2 ingress (mean 1.10 Mbps)
- Flow 2 egress (mean 1.09 Mbps)
- Flow 3 ingress (mean 0.37 Mbps)
- Flow 3 egress (mean 0.37 Mbps)

**Jitter (ms)**

- Flow 1 (95th percentile 136.28 ms)
- Flow 2 (95th percentile 136.71 ms)
- Flow 3 (95th percentile 136.10 ms)