Repeated the test of 17 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). Tested BBR with qdisc of Fair Queuing (fq), and other schemes with the default Linux qdisc (pfifo_fast).
test from GCE Sydney Ethernet to GCE Tokyo Ethernet, 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>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>flow 1</td>
<td>flow 2</td>
<td>flow 3</td>
</tr>
<tr>
<td>TCP BBR</td>
<td>10</td>
<td>214.19</td>
<td>207.48</td>
<td>201.03</td>
</tr>
<tr>
<td>TCP Cubic</td>
<td>10</td>
<td>174.39</td>
<td>160.98</td>
<td>143.04</td>
</tr>
<tr>
<td>LEDBAT</td>
<td>10</td>
<td>32.89</td>
<td>21.68</td>
<td>10.65</td>
</tr>
<tr>
<td>PCC</td>
<td>10</td>
<td>483.56</td>
<td>110.61</td>
<td>47.55</td>
</tr>
<tr>
<td>QUIC Cubic</td>
<td>10</td>
<td>45.15</td>
<td>36.39</td>
<td>17.78</td>
</tr>
<tr>
<td>SCReAM</td>
<td>10</td>
<td>0.21</td>
<td>0.21</td>
<td>0.22</td>
</tr>
<tr>
<td>WebRTC media</td>
<td>10</td>
<td>2.29</td>
<td>1.46</td>
<td>0.64</td>
</tr>
<tr>
<td>Sprout</td>
<td>10</td>
<td>7.85</td>
<td>7.79</td>
<td>7.51</td>
</tr>
<tr>
<td>TaoVA-100x</td>
<td>10</td>
<td>95.51</td>
<td>107.40</td>
<td>120.69</td>
</tr>
<tr>
<td>TCP Vegas</td>
<td>10</td>
<td>136.62</td>
<td>111.29</td>
<td>73.27</td>
</tr>
<tr>
<td>Verus</td>
<td>10</td>
<td>195.02</td>
<td>170.64</td>
<td>129.30</td>
</tr>
<tr>
<td>Copa</td>
<td>10</td>
<td>83.17</td>
<td>73.72</td>
<td>63.06</td>
</tr>
<tr>
<td>FillIP</td>
<td>10</td>
<td>716.20</td>
<td>663.74</td>
<td>582.31</td>
</tr>
<tr>
<td>Indigo-1-32</td>
<td>10</td>
<td>206.82</td>
<td>198.92</td>
<td>161.90</td>
</tr>
<tr>
<td>Vivace-latency</td>
<td>10</td>
<td>257.86</td>
<td>225.67</td>
<td>118.33</td>
</tr>
<tr>
<td>Vivace-loss</td>
<td>10</td>
<td>301.16</td>
<td>279.82</td>
<td>180.18</td>
</tr>
<tr>
<td>Vivace-LTE</td>
<td>10</td>
<td>309.83</td>
<td>264.14</td>
<td>178.14</td>
</tr>
</tbody>
</table>
Run 1: Statistics of TCP BBR

Start at: 2018-03-07 06:06:04
End at: 2018-03-07 06:06:34

# Below is generated by plot.py at 2018-03-07 11:26:02
# Datalink statistics
-- Total of 3 flows:
   Average throughput: 417.71 Mbit/s
   95th percentile per-packet one-way delay: 64.225 ms
   Loss rate: 0.01%
-- Flow 1:
   Average throughput: 211.60 Mbit/s
   95th percentile per-packet one-way delay: 63.569 ms
   Loss rate: 0.01%
-- Flow 2:
   Average throughput: 208.33 Mbit/s
   95th percentile per-packet one-way delay: 64.559 ms
   Loss rate: 0.00%
-- Flow 3:
   Average throughput: 203.01 Mbit/s
   95th percentile per-packet one-way delay: 64.740 ms
   Loss rate: 0.02%
Run 1: Report of TCP BBR — Data Link

**Throughput (Mbps):**
- Flow 1 ingress (mean 211.62 Mbps)
- Flow 1 egress (mean 211.60 Mbps)
- Flow 2 ingress (mean 208.34 Mbps)
- Flow 2 egress (mean 208.33 Mbps)
- Flow 3 ingress (mean 203.06 Mbps)
- Flow 3 egress (mean 203.01 Mbps)

**Per-packet one-way delay (ms):**
- Flow 1 (95th percentile 63.57 ms)
- Flow 2 (95th percentile 64.56 ms)
- Flow 3 (95th percentile 64.74 ms)
Run 2: Statistics of TCP BBR

Start at: 2018-03-07 06:23:30
End at: 2018-03-07 06:24:00

# Below is generated by plot.py at 2018-03-07 11:26:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 416.08 Mbit/s
95th percentile per-packet one-way delay: 62.341 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 213.55 Mbit/s
95th percentile per-packet one-way delay: 61.605 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 204.38 Mbit/s
95th percentile per-packet one-way delay: 62.349 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 200.71 Mbit/s
95th percentile per-packet one-way delay: 63.600 ms
Loss rate: 0.02%
Run 2: Report of TCP BBR — Data Link

![Graph of Throughput and Packet Loss](image1)

- **Throughput Graph**: Shows the throughput over time for different flows. The y-axis represents the throughput in Mbit/s, and the x-axis represents time in seconds. The graph includes a legend identifying the throughput for different flows (Flow 1 ingress, Flow 1 egress, Flow 2 ingress, Flow 2 egress, Flow 3 ingress, and Flow 3 egress).

- **Packet Loss Graph**: Shows the packet loss over time for different flows. The y-axis represents the packet loss in percentage, and the x-axis represents time in seconds. The graph includes a legend identifying the packet loss for different flows (Flow 1 95th percentile, Flow 2 95th percentile, Flow 3 95th percentile).

---

**Legend**

- Flow 1 ingress (mean 213.60 Mbit/s)
- Flow 1 egress (mean 213.55 Mbit/s)
- Flow 2 ingress (mean 204.42 Mbit/s)
- Flow 2 egress (mean 204.38 Mbit/s)
- Flow 3 ingress (mean 200.76 Mbit/s)
- Flow 3 egress (mean 200.71 Mbit/s)

---

**Legend**

- Flow 1 (95th percentile 61.60 ms)
- Flow 2 (95th percentile 62.35 ms)
- Flow 3 (95th percentile 63.60 ms)
Run 3: Statistics of TCP BBR

Start at: 2018-03-07 06:40:52
End at: 2018-03-07 06:41:22

# Below is generated by plot.py at 2018-03-07 11:26:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 414.79 Mbit/s
95th percentile per-packet one-way delay: 62.879 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 211.06 Mbit/s
95th percentile per-packet one-way delay: 61.690 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 207.60 Mbit/s
95th percentile per-packet one-way delay: 63.292 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 198.20 Mbit/s
95th percentile per-packet one-way delay: 64.494 ms
Loss rate: 0.15%
Run 3: Report of TCP BBR — Data Link
Run 4: Statistics of TCP BBR

Start at: 2018-03-07 06:58:16
End at: 2018-03-07 06:58:46

# Below is generated by plot.py at 2018-03-07 11:26:11
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 425.15 Mbit/s
  95th percentile per-packet one-way delay: 63.178 ms
  Loss rate: 0.02%
-- Flow 1:
  Average throughput: 220.01 Mbit/s
  95th percentile per-packet one-way delay: 62.230 ms
  Loss rate: 0.02%
-- Flow 2:
  Average throughput: 206.03 Mbit/s
  95th percentile per-packet one-way delay: 63.130 ms
  Loss rate: 0.03%
-- Flow 3:
  Average throughput: 204.67 Mbit/s
  95th percentile per-packet one-way delay: 64.670 ms
  Loss rate: 0.05%
Run 5: Statistics of TCP BBR

Start at: 2018-03-07 07:15:42
End at: 2018-03-07 07:16:12

# Below is generated by plot.py at 2018-03-07 11:26:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 418.42 Mbit/s
95th percentile per-packet one-way delay: 61.589 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 215.44 Mbit/s
95th percentile per-packet one-way delay: 60.721 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 214.00 Mbit/s
95th percentile per-packet one-way delay: 61.454 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 182.40 Mbit/s
95th percentile per-packet one-way delay: 64.358 ms
Loss rate: 0.03%
Run 5: Report of TCP BBR — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 215.48 Mbps)
  - Flow 1 egress (mean 215.44 Mbps)
  - Flow 2 ingress (mean 214.02 Mbps)
  - Flow 2 egress (mean 214.00 Mbps)
  - Flow 3 ingress (mean 182.47 Mbps)
  - Flow 3 egress (mean 182.49 Mbps)

- **Per-packet one-way delay (ms):**
  - Flow 1 (95th percentile 60.72 ms)
  - Flow 2 (95th percentile 61.45 ms)
  - Flow 3 (95th percentile 64.36 ms)
Run 6: Statistics of TCP BBR

Start at: 2018-03-07 07:33:17
End at: 2018-03-07 07:33:47

# Below is generated by plot.py at 2018-03-07 11:26:11
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 421.25 Mbit/s
  95th percentile per-packet one-way delay: 63.388 ms
  Loss rate: 0.01%
-- Flow 1:
  Average throughput: 216.20 Mbit/s
  95th percentile per-packet one-way delay: 61.905 ms
  Loss rate: 0.01%
-- Flow 2:
  Average throughput: 206.12 Mbit/s
  95th percentile per-packet one-way delay: 64.274 ms
  Loss rate: 0.01%
-- Flow 3:
  Average throughput: 204.76 Mbit/s
  95th percentile per-packet one-way delay: 64.817 ms
  Loss rate: 0.03%
Run 6: Report of TCP BBR — Data Link

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

- Flow 1 ingress (mean 216.20 Mbit/s)
- Flow 1 egress (mean 216.20 Mbit/s)
- Flow 2 ingress (mean 206.11 Mbit/s)
- Flow 2 egress (mean 206.12 Mbit/s)
- Flow 3 ingress (mean 204.82 Mbit/s)
- Flow 3 egress (mean 204.76 Mbit/s)
Run 7: Statistics of TCP BBR

Start at: 2018-03-07 07:50:40
End at: 2018-03-07 07:51:10

# Below is generated by plot.py at 2018-03-07 11:26:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 424.07 Mbit/s
95th percentile per-packet one-way delay: 64.281 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 220.06 Mbit/s
95th percentile per-packet one-way delay: 62.897 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 205.90 Mbit/s
95th percentile per-packet one-way delay: 64.856 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 201.64 Mbit/s
95th percentile per-packet one-way delay: 65.768 ms
Loss rate: 0.00%
Run 8: Statistics of TCP BBR

Start at: 2018-03-07 08:08:21
End at: 2018-03-07 08:08:51

# Below is generated by plot.py at 2018-03-07 11:26:11
# Datalink statistics
-- Total of 3 flows:
   Average throughput: 413.49 Mbit/s
   95th percentile per-packet one-way delay: 65.046 ms
   Loss rate: 0.00%
-- Flow 1:
   Average throughput: 208.56 Mbit/s
   95th percentile per-packet one-way delay: 63.913 ms
   Loss rate: 0.00%
-- Flow 2:
   Average throughput: 205.51 Mbit/s
   95th percentile per-packet one-way delay: 65.805 ms
   Loss rate: 0.00%
-- Flow 3:
   Average throughput: 205.50 Mbit/s
   95th percentile per-packet one-way delay: 65.976 ms
   Loss rate: 0.00%
Run 8: Report of TCP BBR — Data Link

![Graph 1: Throughput vs Time]

- **Flow 1 ingress**: (mean 208.56 Mbit/s)
- **Flow 1 egress**: (mean 208.56 Mbit/s)
- **Flow 2 ingress**: (mean 205.54 Mbit/s)
- **Flow 2 egress**: (mean 205.51 Mbit/s)
- **Flow 3 ingress**: (mean 205.19 Mbit/s)
- **Flow 3 egress**: (mean 205.50 Mbit/s)

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

- **Flow 1 (95th percentile 63.91 ms)**
- **Flow 2 (95th percentile 65.81 ms)**
- **Flow 3 (95th percentile 65.98 ms)**
Run 9: Statistics of TCP BBR

Start at: 2018-03-07 08:25:50
End at: 2018-03-07 08:26:20

# Below is generated by plot.py at 2018-03-07 11:32:28
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 418.93 Mbit/s
  95th percentile per-packet one-way delay: 64.867 ms
  Loss rate: 0.01%
-- Flow 1:
  Average throughput: 215.77 Mbit/s
  95th percentile per-packet one-way delay: 63.698 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 204.58 Mbit/s
  95th percentile per-packet one-way delay: 65.395 ms
  Loss rate: 0.01%
-- Flow 3:
  Average throughput: 201.80 Mbit/s
  95th percentile per-packet one-way delay: 65.427 ms
  Loss rate: 0.02%
Run 9: Report of TCP BBR — Data Link

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

**Throughput (Mbps)**
- Flow 1 Ingress (mean 215.80 Mbps)
- Flow 1 Egress (mean 215.77 Mbps)
- Flow 2 Ingress (mean 204.61 Mbps)
- Flow 2 Egress (mean 204.58 Mbps)
- Flow 3 Ingress (mean 201.92 Mbps)
- Flow 3 Egress (mean 201.80 Mbps)

**Per-packet one-way delay (ms)**
- Flow 1 (95th percentile 63.70 ms)
- Flow 2 (95th percentile 65.39 ms)
- Flow 3 (95th percentile 65.43 ms)
Run 10: Statistics of TCP BBR

Start at: 2018-03-07 08:42:57
End at: 2018-03-07 08:43:27

# Below is generated by plot.py at 2018-03-07 11:32:31
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 419.87 Mbit/s
  95th percentile per-packet one-way delay: 62.717 ms
  Loss rate: 0.01%
-- Flow 1:
  Average throughput: 209.61 Mbit/s
  95th percentile per-packet one-way delay: 61.688 ms
  Loss rate: 0.01%
-- Flow 2:
  Average throughput: 212.38 Mbit/s
  95th percentile per-packet one-way delay: 62.337 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 207.63 Mbit/s
  95th percentile per-packet one-way delay: 64.502 ms
  Loss rate: 0.01%
Run 10: Report of TCP BBR — Data Link

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

- **Throughput (Mbps)**
  - Time (s): 0, 5, 10, 15, 20, 25, 30
  - Flow 1 ingress (mean 209.64 Mbps)
  - Flow 1 egress (mean 209.61 Mbps)
  - Flow 2 ingress (mean 212.35 Mbps)
  - Flow 2 egress (mean 212.38 Mbps)
  - Flow 3 ingress (mean 207.63 Mbps)
  - Flow 3 egress (mean 207.63 Mbps)

- **Per packet one way delay (ms)**
  - Time (s): 0, 5, 10, 15, 20, 25, 30
  - Flow 1 (95th percentile 61.69 ms)
  - Flow 2 (95th percentile 62.34 ms)
  - Flow 3 (95th percentile 64.50 ms)
Run 1: Statistics of TCP Cubic

Start at: 2018-03-07 06:12:50
End at: 2018-03-07 06:13:20

# Below is generated by plot.py at 2018-03-07 11:32:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 316.84 Mbit/s
95th percentile per-packet one-way delay: 62.533 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 144.60 Mbit/s
95th percentile per-packet one-way delay: 60.534 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 201.09 Mbit/s
95th percentile per-packet one-way delay: 67.056 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 115.80 Mbit/s
95th percentile per-packet one-way delay: 60.174 ms
Loss rate: 0.02%
Run 1: Report of TCP Cubic — Data Link
Run 2: Statistics of TCP Cubic

Start at: 2018-03-07 06:30:18
End at: 2018-03-07 06:30:48

# Below is generated by plot.py at 2018-03-07 11:32:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 377.64 Mbit/s
95th percentile per-packet one-way delay: 63.043 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 219.41 Mbit/s
95th percentile per-packet one-way delay: 62.716 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 131.63 Mbit/s
95th percentile per-packet one-way delay: 58.678 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 212.96 Mbit/s
95th percentile per-packet one-way delay: 65.699 ms
Loss rate: 0.00%
Run 3: Statistics of TCP Cubic

Start at: 2018-03-07 06:47:38
End at: 2018-03-07 06:48:08

# Below is generated by plot.py at 2018-03-07 11:32:31
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 296.44 Mbit/s
  95th percentile per-packet one-way delay: 61.854 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 175.17 Mbit/s
  95th percentile per-packet one-way delay: 61.252 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 179.77 Mbit/s
  95th percentile per-packet one-way delay: 62.877 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 5.19 Mbit/s
  95th percentile per-packet one-way delay: 54.254 ms
  Loss rate: 0.14%
Run 3: Report of TCP Cubic — Data Link

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

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

Legend:
- Flow 1 ingress (mean 175.22 Mbps)
- Flow 1 egress (mean 175.17 Mbps)
- Flow 2 ingress (mean 179.75 Mbps)
- Flow 2 egress (mean 179.77 Mbps)
- Flow 3 ingress (mean 5.19 Mbps)
- Flow 3 egress (mean 5.19 Mbps)

Legend for delay:
- Flow 1 (95th percentile 61.25 ms)
- Flow 2 (95th percentile 62.88 ms)
- Flow 3 (95th percentile 54.25 ms)
Run 4: Statistics of TCP Cubic

Start at: 2018-03-07 07:05:00
End at: 2018-03-07 07:05:30

# Below is generated by plot.py at 2018-03-07 11:32:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 392.21 Mbit/s
95th percentile per-packet one-way delay: 63.858 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 217.45 Mbit/s
95th percentile per-packet one-way delay: 63.417 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 208.07 Mbit/s
95th percentile per-packet one-way delay: 64.937 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 109.25 Mbit/s
95th percentile per-packet one-way delay: 60.664 ms
Loss rate: 0.00%
Run 4: Report of TCP Cubic — Data Link
Run 5: Statistics of TCP Cubic

Start at: 2018-03-07 07:22:33
End at: 2018-03-07 07:23:03

# Below is generated by plot.py at 2018-03-07 11:32:31
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 316.33 Mbit/s
  95th percentile per-packet one-way delay: 61.343 ms
  Loss rate: 0.08%
-- Flow 1:
  Average throughput: 172.32 Mbit/s
  95th percentile per-packet one-way delay: 62.672 ms
  Loss rate: 0.09%
-- Flow 2:
  Average throughput: 111.30 Mbit/s
  95th percentile per-packet one-way delay: 58.765 ms
  Loss rate: 0.08%
-- Flow 3:
  Average throughput: 210.61 Mbit/s
  95th percentile per-packet one-way delay: 59.093 ms
  Loss rate: 0.05%
Run 5: Report of TCP Cubic — Data Link
Run 6: Statistics of TCP Cubic

Start at: 2018-03-07 07:40:03
End at: 2018-03-07 07:40:33

# Below is generated by plot.py at 2018-03-07 11:32:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 324.44 Mbit/s
95th percentile per-packet one-way delay: 61.623 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 178.42 Mbit/s
95th percentile per-packet one-way delay: 61.707 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 152.96 Mbit/s
95th percentile per-packet one-way delay: 62.029 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 133.32 Mbit/s
95th percentile per-packet one-way delay: 57.233 ms
Loss rate: 0.00%
Run 6: Report of TCP Cubic — Data Link
Run 7: Statistics of TCP Cubic

Start at: 2018-03-07 07:57:26
End at: 2018-03-07 07:57:56

# Below is generated by plot.py at 2018-03-07 11:35:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 328.09 Mbit/s
95th percentile per-packet one-way delay: 60.161 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 190.44 Mbit/s
95th percentile per-packet one-way delay: 60.849 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 138.81 Mbit/s
95th percentile per-packet one-way delay: 59.414 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 136.64 Mbit/s
95th percentile per-packet one-way delay: 54.836 ms
Loss rate: 0.01%
Run 7: Report of TCP Cubic — Data Link

![Graph showing throughput and packet delay over time for different flows.](image-url)
Run 8: Statistics of TCP Cubic

Start at: 2018-03-07 08:15:09
End at: 2018-03-07 08:15:39

# Below is generated by plot.py at 2018-03-07 11:35:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 275.46 Mbit/s
95th percentile per-packet one-way delay: 61.992 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 114.80 Mbit/s
95th percentile per-packet one-way delay: 57.633 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 189.10 Mbit/s
95th percentile per-packet one-way delay: 64.691 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 104.81 Mbit/s
95th percentile per-packet one-way delay: 59.884 ms
Loss rate: 0.00%
Run 9: Statistics of TCP Cubic

Start at: 2018-03-07 08:32:36
End at: 2018-03-07 08:33:06

# Below is generated by plot.py at 2018-03-07 11:35:55
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 303.86 Mbit/s
  95th percentile per-packet one-way delay: 62.286 ms
  Loss rate: 0.04%
-- Flow 1:
  Average throughput: 130.47 Mbit/s
  95th percentile per-packet one-way delay: 59.088 ms
  Loss rate: 0.02%
-- Flow 2:
  Average throughput: 152.72 Mbit/s
  95th percentile per-packet one-way delay: 62.932 ms
  Loss rate: 0.07%
-- Flow 3:
  Average throughput: 216.15 Mbit/s
  95th percentile per-packet one-way delay: 64.776 ms
  Loss rate: 0.03%
Run 10: Statistics of TCP Cubic

Start at: 2018-03-07 08:49:48
End at: 2018-03-07 08:50:18

# Below is generated by plot.py at 2018-03-07 11:36:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 358.49 Mbit/s
95th percentile per-packet one-way delay: 63.053 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 200.85 Mbit/s
95th percentile per-packet one-way delay: 63.093 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 144.33 Mbit/s
95th percentile per-packet one-way delay: 58.568 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 185.71 Mbit/s
95th percentile per-packet one-way delay: 65.788 ms
Loss rate: 0.00%
Run 10: Report of TCP Cubic — Data Link

![Graphs showing throughput and per packet one-way delay over time for Flow 1, Flow 2, and Flow 3.]

Throughput: Flow 1 ingress (mean 200.85 Mbit/s), Flow 1 egress (mean 200.85 Mbit/s), Flow 2 ingress (mean 144.33 Mbit/s), Flow 2 egress (mean 144.33 Mbit/s), Flow 3 ingress (mean 185.71 Mbit/s), Flow 3 egress (mean 185.71 Mbit/s).

Per packet one-way delay: Flow 1 (95th percentile 63.09 ms), Flow 2 (95th percentile 58.57 ms), Flow 3 (95th percentile 65.79 ms).
Run 1: Statistics of LEDBAT

Start at: 2018-03-07 06:18:41
End at: 2018-03-07 06:19:11

# Below is generated by plot.py at 2018-03-07 11:36:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 47.33 Mbit/s
95th percentile per-packet one-way delay: 52.906 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 32.01 Mbit/s
95th percentile per-packet one-way delay: 53.121 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 18.35 Mbit/s
95th percentile per-packet one-way delay: 52.562 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 9.56 Mbit/s
95th percentile per-packet one-way delay: 51.788 ms
Loss rate: 0.00%
Run 1: Report of LEDBAT — Data Link
Run 2: Statistics of LEDBAT

Start at: 2018-03-07 06:36:13
End at: 2018-03-07 06:36:43

# Below is generated by plot.py at 2018-03-07 11:36:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 51.66 Mbit/s
95th percentile per-packet one-way delay: 53.112 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 32.97 Mbit/s
95th percentile per-packet one-way delay: 53.364 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 22.70 Mbit/s
95th percentile per-packet one-way delay: 52.814 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 10.93 Mbit/s
95th percentile per-packet one-way delay: 52.248 ms
Loss rate: 0.00%
Run 2: Report of LEDBAT — Data Link
Run 3: Statistics of LEDBAT

Start at: 2018-03-07 06:53:21
End at: 2018-03-07 06:53:52

# Below is generated by plot.py at 2018-03-07 11:36:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 51.08 Mbit/s
95th percentile per-packet one-way delay: 52.385 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 33.24 Mbit/s
95th percentile per-packet one-way delay: 52.629 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 21.69 Mbit/s
95th percentile per-packet one-way delay: 52.171 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 10.27 Mbit/s
95th percentile per-packet one-way delay: 51.769 ms
Loss rate: 0.00%
Run 3: Report of LEDBAT — Data Link
Run 4: Statistics of LEDBAT

Start at: 2018-03-07 07:10:52
End at: 2018-03-07 07:11:22

# Below is generated by plot.py at 2018-03-07 11:36:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 52.11 Mbit/s
95th percentile per-packet one-way delay: 52.914 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 34.01 Mbit/s
95th percentile per-packet one-way delay: 53.137 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 21.94 Mbit/s
95th percentile per-packet one-way delay: 52.727 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 10.55 Mbit/s
95th percentile per-packet one-way delay: 52.511 ms
Loss rate: 0.00%
Run 4: Report of LEDBAT — Data Link

The diagrams show the performance of three flows over time. The top graph displays the throughput (in Mbps) over time, with lines indicating different flows. The bottom graph shows the per-packet one-way delay (in ms) over time, with different colors representing each flow.

Key:
- Flow 1 ingress (mean 34.01 Mbps)
- Flow 1 egress (mean 34.01 Mbps)
- Flow 2 ingress (mean 21.94 Mbps)
- Flow 2 egress (mean 21.94 Mbps)
- Flow 3 ingress (mean 10.55 Mbps)
- Flow 3 egress (mean 10.55 Mbps)

Flow 1 (95th percentile 53.14 ms)
Flow 2 (95th percentile 52.73 ms)
Flow 3 (95th percentile 52.51 ms)
Run 5: Statistics of LEDBAT

Start at: 2018-03-07 07:28:18
End at: 2018-03-07 07:28:48

# Below is generated by plot.py at 2018-03-07 11:36:50
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 51.51 Mbit/s
  95th percentile per-packet one-way delay: 53.150 ms
  Loss rate: 0.00%
  Flow 1:
  Average throughput: 33.05 Mbit/s
  95th percentile per-packet one-way delay: 53.430 ms
  Loss rate: 0.00%
  Flow 2:
  Average throughput: 22.14 Mbit/s
  95th percentile per-packet one-way delay: 52.677 ms
  Loss rate: 0.00%
  Flow 3:
  Average throughput: 11.32 Mbit/s
  95th percentile per-packet one-way delay: 52.175 ms
  Loss rate: 0.00%
Run 5: Report of LEDBAT — Data Link

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

- Flow 1 ingress (mean 33.05 Mbit/s)
- Flow 1 egress (mean 33.05 Mbit/s)
- Flow 2 ingress (mean 22.14 Mbit/s)
- Flow 2 egress (mean 22.14 Mbit/s)
- Flow 3 ingress (mean 11.32 Mbit/s)
- Flow 3 egress (mean 11.32 Mbit/s)

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

- Flow 1 (95th percentile 53.43 ms)
- Flow 2 (95th percentile 52.68 ms)
- Flow 3 (95th percentile 52.17 ms)
Run 6: Statistics of LEDBAT

Start at: 2018-03-07 07:45:46
End at: 2018-03-07 07:46:16

# Below is generated by plot.py at 2018-03-07 11:36:50
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 51.02 Mbit/s
  95th percentile per.packet one-way delay: 52.942 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 32.26 Mbit/s
  95th percentile per.packet one-way delay: 53.065 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 22.70 Mbit/s
  95th percentile per.packet one-way delay: 52.611 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 11.26 Mbit/s
  95th percentile per.packet one-way delay: 52.312 ms
  Loss rate: 0.00%
Run 6: Report of LEDBAT — Data Link

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

- Flow 1 ingress (mean 32.26 Mbps)
- Flow 1 egress (mean 32.26 Mbps)
- Flow 2 ingress (mean 22.70 Mbps)
- Flow 2 egress (mean 22.70 Mbps)
- Flow 3 ingress (mean 11.25 Mbps)
- Flow 3 egress (mean 11.26 Mbps)

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

- Flow 1 (95th percentile 53.06 ms)
- Flow 2 (95th percentile 52.61 ms)
- Flow 3 (95th percentile 52.31 ms)
Run 7: Statistics of LEDBAT

Start at: 2018-03-07 08:03:22
End at: 2018-03-07 08:03:52

# Below is generated by plot.py at 2018-03-07 11:36:50
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 51.18 Mbit/s
  95th percentile per-packet one-way delay: 52.605 ms
  Loss rate: 0.03%
-- Flow 1:
  Average throughput: 32.66 Mbit/s
  95th percentile per-packet one-way delay: 52.739 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 22.17 Mbit/s
  95th percentile per-packet one-way delay: 52.418 ms
  Loss rate: 0.09%
-- Flow 3:
  Average throughput: 11.45 Mbit/s
  95th percentile per-packet one-way delay: 52.115 ms
  Loss rate: 0.00%
Run 7: Report of LEDBAT — Data Link

![Graph of throughput and per-packet one-way delay over time for different flows, each with their respective mean and 95th percentile values.]

- Flow 1 ingress (mean 32.66 Mbit/s)
- Flow 1 egress (mean 32.66 Mbit/s)
- Flow 2 ingress (mean 22.19 Mbit/s)
- Flow 2 egress (mean 22.37 Mbit/s)
- Flow 3 ingress (mean 11.45 Mbit/s)
- Flow 3 egress (mean 11.45 Mbit/s)
Run 8: Statistics of LEDBAT

Start at: 2018-03-07 08:21:05  
End at: 2018-03-07 08:21:35

# Below is generated by plot.py at 2018-03-07 11:36:50  
# Datalink statistics

-- Total of 3 flows:  
Average throughput: 49.58 Mbit/s  
95th percentile per-packet one-way delay: 52.805 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 32.28 Mbit/s  
95th percentile per-packet one-way delay: 52.975 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 20.71 Mbit/s  
95th percentile per-packet one-way delay: 52.469 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 10.85 Mbit/s  
95th percentile per-packet one-way delay: 51.864 ms  
Loss rate: 0.00%
Run 9: Statistics of LEDBAT

Start at: 2018-03-07 08:38:14
End at: 2018-03-07 08:38:44

# Below is generated by plot.py at 2018-03-07 11:36:50
# Datalink statistics
-- Total of 3 flows:
   Average throughput: 50.88 Mbit/s
   95th percentile per-packet one-way delay: 52.609 ms
   Loss rate: 0.00%
   -- Flow 1:
   Average throughput: 32.98 Mbit/s
   95th percentile per-packet one-way delay: 52.852 ms
   Loss rate: 0.00%
   -- Flow 2:
   Average throughput: 21.74 Mbit/s
   95th percentile per-packet one-way delay: 52.271 ms
   Loss rate: 0.00%
   -- Flow 3:
   Average throughput: 10.52 Mbit/s
   95th percentile per-packet one-way delay: 51.600 ms
   Loss rate: 0.00%
Run 9: Report of LEDBAT — Data Link

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

- Flow 1 ingress (mean 32.97 Mbit/s)
- Flow 1 egress (mean 32.98 Mbit/s)
- Flow 2 ingress (mean 21.74 Mbit/s)
- Flow 2 egress (mean 21.74 Mbit/s)
- Flow 3 ingress (mean 10.52 Mbit/s)
- Flow 3 egress (mean 10.52 Mbit/s)

![Graph showing packet loss over time](image-url)

- Flow 1 (95th percentile 52.85 ms)
- Flow 2 (95th percentile 52.27 ms)
- Flow 3 (95th percentile 51.60 ms)
Run 10: Statistics of LEDBAT

Start at: 2018-03-07 08:55:30
End at: 2018-03-07 08:56:00

# Below is generated by plot.py at 2018-03-07 11:36:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 51.73 Mbit/s
95th percentile per-packet one-way delay: 52.792 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 33.46 Mbit/s
95th percentile per-packet one-way delay: 53.265 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 22.63 Mbit/s
95th percentile per-packet one-way delay: 52.449 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 9.75 Mbit/s
95th percentile per-packet one-way delay: 51.817 ms
Loss rate: 0.00%
Run 1: Statistics of PCC

Start at: 2018-03-07 06:17:41
End at: 2018-03-07 06:18:11

# Below is generated by plot.py at 2018-03-07 11:43:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 584.51 Mbit/s
95th percentile per-packet one-way delay: 208.398 ms
Loss rate: 1.89%
-- Flow 1:
Average throughput: 540.70 Mbit/s
95th percentile per-packet one-way delay: 211.000 ms
Loss rate: 1.91%
-- Flow 2:
Average throughput: 63.39 Mbit/s
95th percentile per-packet one-way delay: 168.692 ms
Loss rate: 1.61%
-- Flow 3:
Average throughput: 5.22 Mbit/s
95th percentile per-packet one-way delay: 131.746 ms
Loss rate: 0.00%
Run 1: Report of PCC — Data Link

![Throughput Graph]

![Delay Graph]

- Flow 1 ingress (mean 551.26 Mbit/s)
- Flow 1 egress (mean 540.70 Mbit/s)
- Flow 2 ingress (mean 64.42 Mbit/s)
- Flow 2 egress (mean 63.39 Mbit/s)
- Flow 3 ingress (mean 5.22 Mbit/s)
- Flow 3 egress (mean 5.22 Mbit/s)

- Flow 1 (95th percentile 211.00 ms)
- Flow 2 (95th percentile 168.69 ms)
- Flow 3 (95th percentile 131.75 ms)
Run 2: Statistics of PCC

Start at: 2018-03-07 06:35:14
End at: 2018-03-07 06:35:44

# Below is generated by plot.py at 2018-03-07 11:43:32
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 559.84 Mbit/s
  95th percentile per-packet one-way delay: 235.063 ms
  Loss rate: 5.69%
-- Flow 1:
  Average throughput: 489.17 Mbit/s
  95th percentile per-packet one-way delay: 238.707 ms
  Loss rate: 5.93%
-- Flow 2:
  Average throughput: 78.11 Mbit/s
  95th percentile per-packet one-way delay: 167.992 ms
  Loss rate: 3.26%
-- Flow 3:
  Average throughput: 56.85 Mbit/s
  95th percentile per-packet one-way delay: 168.635 ms
  Loss rate: 6.16%
Run 2: Report of PCC — Data Link

Graph 1: Throughput (Mbps)
- Flow 1 ingress (mean 520.02 Mbps)
- Flow 1 egress (mean 489.17 Mbps)
- Flow 2 ingress (mean 60.75 Mbps)
- Flow 2 egress (mean 78.11 Mbps)
- Flow 3 ingress (mean 60.59 Mbps)
- Flow 3 egress (mean 56.85 Mbps)

Graph 2: Per-packet one-way delay (ms)
- Flow 1 (95th percentile 238.71 ms)
- Flow 2 (95th percentile 167.99 ms)
- Flow 3 (95th percentile 168.63 ms)
Run 3: Statistics of PCC

Start at: 2018-03-07 06:52:21
End at: 2018-03-07 06:52:51

# Below is generated by plot.py at 2018-03-07 11:43:32
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 576.57 Mbit/s
  95th percentile per-packet one-way delay: 222.042 ms
  Loss rate: 5.06%
-- Flow 1:
  Average throughput: 485.41 Mbit/s
  95th percentile per-packet one-way delay: 230.981 ms
  Loss rate: 5.37%
-- Flow 2:
  Average throughput: 107.82 Mbit/s
  95th percentile per-packet one-way delay: 166.412 ms
  Loss rate: 2.97%
-- Flow 3:
  Average throughput: 59.27 Mbit/s
  95th percentile per-packet one-way delay: 167.162 ms
  Loss rate: 4.80%
Run 3: Report of PCC — Data Link
Run 4: Statistics of PCC

Start at: 2018-03-07 07:09:53
End at: 2018-03-07 07:10:23

# Below is generated by plot.py at 2018-03-07 11:43:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 572.34 Mbit/s
95th percentile per-packet one-way delay: 258.578 ms
Loss rate: 3.48%
-- Flow 1:
Average throughput: 469.54 Mbit/s
95th percentile per-packet one-way delay: 262.226 ms
Loss rate: 3.79%
-- Flow 2:
Average throughput: 124.38 Mbit/s
95th percentile per-packet one-way delay: 164.654 ms
Loss rate: 1.77%
-- Flow 3:
Average throughput: 61.02 Mbit/s
95th percentile per-packet one-way delay: 165.264 ms
Loss rate: 3.15%
Run 5: Statistics of PCC

Start at: 2018-03-07 07:27:19
End at: 2018-03-07 07:27:49

# Below is generated by plot.py at 2018-03-07 11:44:32
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 573.62 Mbit/s
  95th percentile per-packet one-way delay: 195.076 ms
  Loss rate: 2.68%
-- Flow 1:
  Average throughput: 470.62 Mbit/s
  95th percentile per-packet one-way delay: 201.222 ms
  Loss rate: 2.64%
-- Flow 2:
  Average throughput: 124.88 Mbit/s
  95th percentile per-packet one-way delay: 168.814 ms
  Loss rate: 2.63%
-- Flow 3:
  Average throughput: 60.96 Mbit/s
  95th percentile per-packet one-way delay: 169.858 ms
  Loss rate: 3.91%
Run 5: Report of PCC — Data Link

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

Start at: 2018-03-07 07:44:47
End at: 2018-03-07 07:45:17

# Below is generated by plot.py at 2018-03-07 11:45:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 572.64 Mbit/s
95th percentile per-packet one-way delay: 212.820 ms
Loss rate: 2.15%
-- Flow 1:
Average throughput: 468.68 Mbit/s
95th percentile per-packet one-way delay: 228.166 ms
Loss rate: 2.49%
-- Flow 2:
Average throughput: 125.35 Mbit/s
95th percentile per-packet one-way delay: 167.040 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 62.46 Mbit/s
95th percentile per-packet one-way delay: 168.350 ms
Loss rate: 1.04%
Run 6: Report of PCC — Data Link

The graphs show the throughput and per-packet one-way delay over time for three flows. The throughput graphs display the mean values for each flow, while the per-packet delay graphs show the 95th percentile values.
Run 7: Statistics of PCC

Start at: 2018-03-07 08:02:22
End at: 2018-03-07 08:02:52

# Below is generated by plot.py at 2018-03-07 11:45:11
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 565.14 Mbit/s
  95th percentile per-packet one-way delay: 169.199 ms
  Loss rate: 0.99%
-- Flow 1:
  Average throughput: 494.19 Mbit/s
  95th percentile per-packet one-way delay: 173.881 ms
  Loss rate: 1.13%
-- Flow 2:
  Average throughput: 74.81 Mbit/s
  95th percentile per-packet one-way delay: 152.452 ms
  Loss rate: 0.02%
-- Flow 3:
  Average throughput: 64.36 Mbit/s
  95th percentile per-packet one-way delay: 159.013 ms
  Loss rate: 0.02%
Run 7: Report of PCC — Data Link
Run 8: Statistics of PCC

Start at: 2018-03-07 08:20:05
End at: 2018-03-07 08:20:35

# Below is generated by plot.py at 2018-03-07 11:47:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 573.81 Mbit/s
95th percentile per-packet one-way delay: 149.049 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 454.12 Mbit/s
95th percentile per-packet one-way delay: 158.647 ms
Loss rate: 1.07%
-- Flow 2:
Average throughput: 164.06 Mbit/s
95th percentile per-packet one-way delay: 122.270 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 32.47 Mbit/s
95th percentile per-packet one-way delay: 121.741 ms
Loss rate: 0.05%
Run 8: Report of PCC — Data Link

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

- Flow 1 ingress (mean 459.02 Mbps)
- Flow 1 egress (mean 454.12 Mbps)
- Flow 2 ingress (mean 164.10 Mbps)
- Flow 2 egress (mean 164.06 Mbps)
- Flow 3 ingress (mean 22.49 Mbps)
- Flow 3 egress (mean 32.47 Mbps)

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

- Flow 1 (95th percentile 158.65 ms)
- Flow 2 (95th percentile 122.27 ms)
- Flow 3 (95th percentile 121.74 ms)
Run 9: Statistics of PCC

Start at: 2018-03-07 08:37:14
End at: 2018-03-07 08:37:44

# Below is generated by plot.py at 2018-03-07 11:52:56
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 563.32 Mbit/s
  95th percentile per-packet one-way delay: 216.649 ms
  Loss rate: 2.14%
-- Flow 1:
  Average throughput: 458.83 Mbit/s
  95th percentile per-packet one-way delay: 227.165 ms
  Loss rate: 2.59%
-- Flow 2:
  Average throughput: 122.45 Mbit/s
  95th percentile per-packet one-way delay: 161.831 ms
  Loss rate: 0.19%
-- Flow 3:
  Average throughput: 70.26 Mbit/s
  95th percentile per-packet one-way delay: 79.346 ms
  Loss rate: 0.01%
Run 9: Report of PCC — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 470.99 Mbps)
  - Flow 1 egress (mean 458.83 Mbps)
  - Flow 2 ingress (mean 122.69 Mbps)
  - Flow 2 egress (mean 122.45 Mbps)
  - Flow 3 ingress (mean 70.27 Mbps)
  - Flow 3 egress (mean 70.26 Mbps)

- **Per-packet one-way delay (ms):**
  - Flow 1 (95th percentile 227.16 ms)
  - Flow 2 (95th percentile 161.83 ms)
  - Flow 3 (95th percentile 79.35 ms)
Run 10: Statistics of PCC

Start at: 2018-03-07 08:54:29
End at: 2018-03-07 08:54:59

# Below is generated by plot.py at 2018-03-07 11:53:36
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 585.59 Mbit/s
  95th percentile per-packet one-way delay: 213.257 ms
  Loss rate: 2.81%
-- Flow 1:
  Average throughput: 504.38 Mbit/s
  95th percentile per-packet one-way delay: 215.606 ms
  Loss rate: 2.79%
-- Flow 2:
  Average throughput: 120.84 Mbit/s
  95th percentile per-packet one-way delay: 165.767 ms
  Loss rate: 2.98%
-- Flow 3:
  Average throughput: 2.67 Mbit/s
  95th percentile per-packet one-way delay: 156.115 ms
  Loss rate: 0.05%
Run 10: Report of PCC — Data Link

![Graph showing throughput and per-packet delay over time with labels for different flows.](image)
Run 1: Statistics of QUIC Cubic

Start at: 2018-03-07 06:15:18
End at: 2018-03-07 06:15:48

# Below is generated by plot.py at 2018-03-07 11:53:36
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 37.63 Mbit/s
  95th percentile per-packet one-way delay: 53.164 ms
  Loss rate: 0.00%
 -- Flow 1:
  Average throughput: 0.06 Mbit/s
  95th percentile per-packet one-way delay: 50.247 ms
  Loss rate: 0.00%
 -- Flow 2:
  Average throughput: 44.98 Mbit/s
  95th percentile per-packet one-way delay: 53.178 ms
  Loss rate: 0.00%
 -- Flow 3:
  Average throughput: 23.86 Mbit/s
  95th percentile per-packet one-way delay: 50.023 ms
  Loss rate: 0.00%
Run 1: Report of QUIC Cubic — Data Link
Run 2: Statistics of QUIC Cubic

Start at: 2018-03-07 06:32:46
End at: 2018-03-07 06:33:16

# Below is generated by plot.py at 2018-03-07 11:53:36
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 74.43 Mbit/s
  95th percentile per-packet one-way delay: 53.806 ms
  Loss rate: 0.01%
-- Flow 1:
  Average throughput: 45.62 Mbit/s
  95th percentile per-packet one-way delay: 53.840 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 35.75 Mbit/s
  95th percentile per-packet one-way delay: 53.377 ms
  Loss rate: 0.02%
-- Flow 3:
  Average throughput: 15.85 Mbit/s
  95th percentile per-packet one-way delay: 50.552 ms
  Loss rate: 0.00%
Run 2: Report of QUIC Cubic — Data Link
Run 3: Statistics of QUIC Cubic

Start at: 2018-03-07 06:50:05
End at: 2018-03-07 06:50:35

# Below is generated by plot.py at 2018-03-07 11:53:36
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 85.91 Mbit/s
  95th percentile per-packet one-way delay: 53.483 ms
  Loss rate: 0.01%
-- Flow 1:
  Average throughput: 53.03 Mbit/s
  95th percentile per-packet one-way delay: 53.353 ms
  Loss rate: 0.01%
-- Flow 2:
  Average throughput: 41.64 Mbit/s
  95th percentile per-packet one-way delay: 50.743 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 16.15 Mbit/s
  95th percentile per-packet one-way delay: 53.653 ms
  Loss rate: 0.00%
Run 3: Report of QUIC Cubic — Data Link
Run 4: Statistics of QUIC Cubic

Start at: 2018-03-07 07:07:32
End at: 2018-03-07 07:08:02

# Below is generated by plot.py at 2018-03-07 11:53:36
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 82.74 Mbit/s
  95th percentile per-packet one-way delay: 53.597 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 52.78 Mbit/s
  95th percentile per-packet one-way delay: 53.573 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 35.09 Mbit/s
  95th percentile per-packet one-way delay: 50.337 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 20.48 Mbit/s
  95th percentile per-packet one-way delay: 53.842 ms
  Loss rate: 0.00%
Run 4: Report of QUIC Cubic — Data Link
Run 5: Statistics of QUIC Cubic

Start at: 2018-03-07 07:24:58
End at: 2018-03-07 07:25:28

# Below is generated by plot.py at 2018-03-07 11:53:36
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 75.15 Mbit/s
  95th percentile per-packet one-way delay: 53.359 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 44.22 Mbit/s
  95th percentile per-packet one-way delay: 53.332 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 37.02 Mbit/s
  95th percentile per-packet one-way delay: 53.356 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 19.47 Mbit/s
  95th percentile per-packet one-way delay: 53.450 ms
  Loss rate: 0.00%
Run 5: Report of QUIC Cubic — Data Link

![Graph showing throughput and per-packet round-trip delay over time for different flows.](image-url)
Run 6: Statistics of QUIC Cubic

Start at: 2018-03-07 07:42:30
End at: 2018-03-07 07:43:00

# Below is generated by plot.py at 2018-03-07 11:53:36
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 73.64 Mbit/s
  95th percentile per-packet one-way delay: 53.737 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 45.15 Mbit/s
  95th percentile per-packet one-way delay: 53.764 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 34.21 Mbit/s
  95th percentile per-packet one-way delay: 53.591 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 17.76 Mbit/s
  95th percentile per-packet one-way delay: 50.506 ms
  Loss rate: 0.00%
Run 6: Report of QUIC Cubic — Data Link

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

![Graph 2: Per-packet one-way delay (ms)](image2)
Run 7: Statistics of QUIC Cubic

Start at: 2018-03-07 07:59:55
End at: 2018-03-07 08:00:25

# Below is generated by plot.py at 2018-03-07 11:53:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.16 Mbit/s
95th percentile per-packet one-way delay: 50.811 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 63.47 Mbit/s
95th percentile per-packet one-way delay: 50.792 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 27.47 Mbit/s
95th percentile per-packet one-way delay: 50.800 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 16.70 Mbit/s
95th percentile per-packet one-way delay: 53.599 ms
Loss rate: 0.00%
Run 7: Report of QUIC Cubic — Data Link
Run 8: Statistics of QUIC Cubic

Start at: 2018-03-07 08:17:34
End at: 2018-03-07 08:18:04

# Below is generated by plot.py at 2018-03-07 11:53:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.82 Mbit/s
95th percentile per-packet one-way delay: 53.138 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 46.88 Mbit/s
95th percentile per-packet one-way delay: 53.116 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 41.92 Mbit/s
95th percentile per-packet one-way delay: 53.187 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 15.64 Mbit/s
95th percentile per-packet one-way delay: 50.501 ms
Loss rate: 0.00%
Run 8: Report of QUIC Cubic — Data Link
Run 9: Statistics of QUIC Cubic

Start at: 2018-03-07 08:35:02
End at: 2018-03-07 08:35:32

# Below is generated by plot.py at 2018-03-07 11:53:36
# Datalink statistics

-- Total of 3 flows:
Average throughput: 74.65 Mbit/s
95th percentile per-packet one-way delay: 53.814 ms
Loss rate: 0.00%

-- Flow 1:
Average throughput: 46.27 Mbit/s
95th percentile per-packet one-way delay: 53.852 ms
Loss rate: 0.00%

-- Flow 2:
Average throughput: 35.01 Mbit/s
95th percentile per-packet one-way delay: 53.286 ms
Loss rate: 0.00%

-- Flow 3:
Average throughput: 15.94 Mbit/s
95th percentile per-packet one-way delay: 51.056 ms
Loss rate: 0.00%
Run 9: Report of QUIC Cubic — Data Link

![Graphs showing throughput and per-packet one-way delay over time]
Run 10: Statistics of QUIC Cubic

Start at: 2018-03-07 08:52:14
End at: 2018-03-07 08:52:44

# Below is generated by plot.py at 2018-03-07 11:53:36
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 79.59 Mbit/s
  95th percentile per-packet one-way delay: 53.577 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 53.99 Mbit/s
  95th percentile per-packet one-way delay: 53.610 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 30.78 Mbit/s
  95th percentile per-packet one-way delay: 50.813 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 15.94 Mbit/s
  95th percentile per-packet one-way delay: 50.485 ms
  Loss rate: 0.00%
Run 10: Report of QUIC Cubic — Data Link

[Bar chart and line chart images showing throughput and per-packet one-way delay for different flows with specified mean and 95th percentile values]
Run 1: Statistics of SCReAM

Start at: 2018-03-07 06:09:13
End at: 2018-03-07 06:09:43

# Below is generated by plot.py at 2018-03-07 11:53:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.597 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.603 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.603 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.455 ms
Loss rate: 0.00%
Run 1: Report of SCReAM — Data Link
Run 2: Statistics of SCReAM

Start at: 2018-03-07 06:26:39
End at: 2018-03-07 06:27:09

# Below is generated by plot.py at 2018-03-07 11:53:36
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 53.986 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 54.013 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 50.377 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 50.360 ms
  Loss rate: 0.00%
Run 3: Statistics of SCReAM

Start at: 2018-03-07 06:43:58
End at: 2018-03-07 06:44:28

# Below is generated by plot.py at 2018-03-07 11:53:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.779 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.596 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.552 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.851 ms
Loss rate: 0.00%
Run 3: Report of SCReAM — Data Link

Graph 1: Throughput (Mbps)
- Flow 1 ingress (mean 0.21 Mbps)
- Flow 1 egress (mean 0.21 Mbps)
- Flow 2 ingress (mean 0.22 Mbps)
- Flow 2 egress (mean 0.22 Mbps)
- Flow 3 ingress (mean 0.22 Mbps)
- Flow 3 egress (mean 0.22 Mbps)

Graph 2: Per-packet end-to-end delay (ms)
- Flow 1 (95th percentile 50.60 ms)
- Flow 2 (95th percentile 53.55 ms)
- Flow 3 (95th percentile 53.85 ms)
Run 4: Statistics of SCReAM

Start at: 2018-03-07 07:01:25
End at: 2018-03-07 07:01:55

# Below is generated by plot.py at 2018-03-07 11:53:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.908 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.928 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.284 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.356 ms
Loss rate: 0.00%
Run 4: Report of SCReAM — Data Link

![Graph showing throughput and packet delay](image-url)
Run 5: Statistics of SCReAM

Start at: 2018-03-07 07:18:52
End at: 2018-03-07 07:19:22

# Below is generated by plot.py at 2018-03-07 11:53:36
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 53.641 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 53.687 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 53.547 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 50.423 ms
  Loss rate: 0.00%
Run 5: Report of SCReAM — Data Link
Run 6: Statistics of SCReAM

Start at: 2018-03-07 07:36:23
End at: 2018-03-07 07:36:53

# Below is generated by plot.py at 2018-03-07 11:53:36
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 54.064 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 53.877 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 54.099 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 53.864 ms
  Loss rate: 0.00%
Run 6: Report of SCReAM — Data Link
Run 7: Statistics of SCReAM

Start at: 2018-03-07 07:53:46
End at: 2018-03-07 07:54:16

# Below is generated by plot.py at 2018-03-07 11:53:36
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 50.868 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 50.888 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 50.773 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 50.602 ms
  Loss rate: 0.00%
Run 7: Report of SCReAM — Data Link
Run 8: Statistics of SCReAM

Start at: 2018-03-07 08:11:28
End at: 2018-03-07 08:11:58

# Below is generated by plot.py at 2018-03-07 11:53:36
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 53.554 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 50.834 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 53.515 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 53.633 ms
  Loss rate: 0.00%
Run 8: Report of SCReAM — Data Link

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

- **Flow 1**: Ingress (mean 0.22 Mbit/s), Egress (mean 0.22 Mbit/s)
- **Flow 2**: Ingress (mean 0.21 Mbit/s), Egress (mean 0.21 Mbit/s)
- **Flow 3**: Ingress (mean 0.22 Mbit/s), Egress (mean 0.22 Mbit/s)

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

- **Flow 1**: 95th percentile 50.83 ms
- **Flow 2**: 95th percentile 53.52 ms
- **Flow 3**: 95th percentile 53.63 ms
Run 9: Statistics of SCReAM

Start at: 2018-03-07 08:28:55
End at: 2018-03-07 08:29:25

# Below is generated by plot.py at 2018-03-07 11:53:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.332 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.352 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.445 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.317 ms
Loss rate: 0.00%
Run 9: Report of SCReAM — Data Link

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

- Flow 1 ingress (mean 0.22 Mbit/s)
- Flow 1 egress (mean 0.22 Mbit/s)
- Flow 2 ingress (mean 0.21 Mbit/s)
- Flow 2 egress (mean 0.21 Mbit/s)
- Flow 3 ingress (mean 0.22 Mbit/s)
- Flow 3 egress (mean 0.22 Mbit/s)
Run 10: Statistics of SCReAM

Start at: 2018-03-07 08:46:03
End at: 2018-03-07 08:46:33

# Below is generated by plot.py at 2018-03-07 11:53:36
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 53.578 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 53.598 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 50.662 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 53.525 ms
  Loss rate: 0.00%
Run 10: Report of SCReAM — Data Link

---

**Throughput (Mb/s)**

- Flow 1 ingress (mean 0.21 Mb/s)
- Flow 1 egress (mean 0.21 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)

---

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

- Flow 1 (95th percentile 53.60 ms)
- Flow 2 (95th percentile 50.66 ms)
- Flow 3 (95th percentile 53.52 ms)
Run 1: Statistics of WebRTC media

Start at: 2018-03-07 06:03:09
End at: 2018-03-07 06:03:39

# Below is generated by plot.py at 2018-03-07 11:53:36
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 4.37 Mbit/s
  95th percentile per-packet one-way delay: 53.508 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 2.29 Mbit/s
  95th percentile per-packet one-way delay: 53.543 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 1.46 Mbit/s
  95th percentile per-packet one-way delay: 53.283 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.64 Mbit/s
  95th percentile per-packet one-way delay: 50.529 ms
  Loss rate: 0.00%
Run 1: Report of WebRTC media — Data Link

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

- Flow 1 ingress (mean 2.29 Mbit/s)
- Flow 1 egress (mean 2.29 Mbit/s)
- Flow 2 ingress (mean 1.46 Mbit/s)
- Flow 2 egress (mean 1.46 Mbit/s)
- Flow 3 ingress (mean 0.64 Mbit/s)
- Flow 3 egress (mean 0.64 Mbit/s)
Run 2: Statistics of WebRTC media

Start at: 2018-03-07 06:20:40
End at: 2018-03-07 06:21:10

# Below is generated by plot.py at 2018-03-07 11:53:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.38 Mbit/s
95th percentile per-packet one-way delay: 53.096 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 50.311 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.47 Mbit/s
95th percentile per-packet one-way delay: 50.596 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.64 Mbit/s
95th percentile per-packet one-way delay: 53.250 ms
Loss rate: 0.00%
Run 2: Report of WebRTC media — Data Link

![Graph 1: Throughput over time for different flows]

- **Flow 1 ingress (mean 2.29 Mbit/s)**
- **Flow 1 egress (mean 2.29 Mbit/s)**
- **Flow 2 ingress (mean 1.47 Mbit/s)**
- **Flow 2 egress (mean 1.47 Mbit/s)**
- **Flow 3 ingress (mean 0.64 Mbit/s)**
- **Flow 3 egress (mean 0.64 Mbit/s)**

![Graph 2: Per-packet one-way delay over time for different flows]

- **Flow 1 (95th percentile 50.31 ms)**
- **Flow 2 (95th percentile 50.60 ms)**
- **Flow 3 (95th percentile 51.25 ms)**
Run 3: Statistics of WebRTC media

Start at: 2018-03-07 06:38:04
End at: 2018-03-07 06:38:34

# Below is generated by plot.py at 2018-03-07 11:53:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.36 Mbit/s
95th percentile per-packet one-way delay: 51.007 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 51.037 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 1.46 Mbit/s
95th percentile per-packet one-way delay: 50.375 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.64 Mbit/s
95th percentile per-packet one-way delay: 50.647 ms
Loss rate: 0.00%
Run 3: Report of WebRTC media — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 2.28 Mbps)
  - Flow 1 egress (mean 2.28 Mbps)
  - Flow 2 ingress (mean 1.46 Mbps)
  - Flow 2 egress (mean 1.46 Mbps)
  - Flow 3 ingress (mean 0.64 Mbps)
  - Flow 3 egress (mean 0.64 Mbps)

- **Per-packet one-way delay (ms):**
  - Flow 1 (95th percentile 51.04 ms)
  - Flow 2 (95th percentile 50.38 ms)
  - Flow 3 (95th percentile 50.65 ms)
Run 4: Statistics of WebRTC media

Start at: 2018-03-07 06:55:20
End at: 2018-03-07 06:55:50

# Below is generated by plot.py at 2018-03-07 11:53:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.36 Mbit/s
95th percentile per-packet one-way delay: 53.547 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 53.583 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.46 Mbit/s
95th percentile per-packet one-way delay: 50.271 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 0.64 Mbit/s
95th percentile per-packet one-way delay: 53.464 ms
Loss rate: 0.00%
Run 4: Report of WebRTC media — Data Link
Run 5: Statistics of WebRTC media

Start at: 2018-03-07 07:12:51
End at: 2018-03-07 07:13:21

# Below is generated by plot.py at 2018-03-07 11:53:36
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 4.36 Mbit/s
  95th percentile per-packet one-way delay: 53.596 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 2.29 Mbit/s
  95th percentile per-packet one-way delay: 50.800 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 1.45 Mbit/s
  95th percentile per-packet one-way delay: 53.665 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.64 Mbit/s
  95th percentile per-packet one-way delay: 50.560 ms
  Loss rate: 0.00%
Run 5: Report of WebRTC media — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 2.29 Mbps)
  - Flow 1 egress (mean 2.29 Mbps)
  - Flow 2 ingress (mean 1.45 Mbps)
  - Flow 2 egress (mean 1.45 Mbps)
  - Flow 3 ingress (mean 0.64 Mbps)
  - Flow 3 egress (mean 0.64 Mbps)

- **Packet loss (ms):**
  - Flow 1 (95th percentile 50.80 ms)
  - Flow 2 (95th percentile 53.66 ms)
  - Flow 3 (95th percentile 50.56 ms)
Run 6: Statistics of WebRTC media

Start at: 2018-03-07 07:30:19
End at: 2018-03-07 07:30:49

# Below is generated by plot.py at 2018-03-07 11:53:36
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 4.37 Mbit/s
  95th percentile per-packet one-way delay: 53.435 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 2.28 Mbit/s
  95th percentile per-packet one-way delay: 50.658 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 1.46 Mbit/s
  95th percentile per-packet one-way delay: 53.468 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.64 Mbit/s
  95th percentile per-packet one-way delay: 53.488 ms
  Loss rate: 0.00%
Run 6: Report of WebRTC media — Data Link

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

Legend:
- Flow 1 ingress (mean 2.28 Mbit/s)
- Flow 1 egress (mean 2.28 Mbit/s)
- Flow 2 ingress (mean 1.46 Mbit/s)
- Flow 2 egress (mean 1.46 Mbit/s)
- Flow 3 ingress (mean 0.64 Mbit/s)
- Flow 3 egress (mean 0.64 Mbit/s)

Per packet one-way delay [ms]:
- Flow 1 (95th percentile 50.66 ms)
- Flow 2 (95th percentile 53.47 ms)
- Flow 3 (95th percentile 53.49 ms)
Run 7: Statistics of WebRTC media

Start at: 2018-03-07 07:47:48
End at: 2018-03-07 07:48:18

# Below is generated by plot.py at 2018-03-07 11:53:36
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 4.35 Mbit/s
  95th percentile per-packet one-way delay: 54.063 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 2.27 Mbit/s
  95th percentile per-packet one-way delay: 53.938 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 1.46 Mbit/s
  95th percentile per-packet one-way delay: 54.107 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.63 Mbit/s
  95th percentile per-packet one-way delay: 54.104 ms
  Loss rate: 0.00%
Run 7: Report of WebRTC media — Data Link

Graph 1: Throughput (Mbps) over time.

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

Legend for Graphs:
- Flow 1 ingress (mean 2.27 Mbps)
- Flow 1 egress (mean 2.27 Mbps)
- Flow 2 ingress (mean 1.46 Mbps)
- Flow 2 egress (mean 1.46 Mbps)
- Flow 3 ingress (mean 0.63 Mbps)
- Flow 3 egress (mean 0.63 Mbps)
Run 8: Statistics of WebRTC media

Start at: 2018-03-07 08:05:25
End at: 2018-03-07 08:05:55

# Below is generated by plot.py at 2018-03-07 11:53:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.37 Mbit/s
95th percentile per-packet one-way delay: 53.898 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 53.928 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.46 Mbit/s
95th percentile per-packet one-way delay: 50.820 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 0.63 Mbit/s
95th percentile per-packet one-way delay: 53.849 ms
Loss rate: 0.01%
Run 8: Report of WebRTC media — Data Link

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

Start at: 2018-03-07 08:23:03
End at: 2018-03-07 08:23:33

# Below is generated by plot.py at 2018-03-07 11:53:36
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 4.37 Mbit/s
  95th percentile per-packet one-way delay: 53.214 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 2.28 Mbit/s
  95th percentile per-packet one-way delay: 50.482 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 1.46 Mbit/s
  95th percentile per-packet one-way delay: 50.821 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.64 Mbit/s
  95th percentile per-packet one-way delay: 53.328 ms
  Loss rate: 0.00%
Run 9: Report of WebRTC media — Data Link

![Graph of WebRTC media data link](image)

**Throughput (Mbps)**

- Flow 1 ingress (mean 2.28 Mbps)
- Flow 1 egress (mean 2.28 Mbps)
- Flow 2 ingress (mean 1.46 Mbps)
- Flow 2 egress (mean 1.46 Mbps)
- Flow 3 ingress (mean 0.64 Mbps)
- Flow 3 egress (mean 0.64 Mbps)

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

- Flow 1 (95th percentile 50.48 ms)
- Flow 2 (95th percentile 50.82 ms)
- Flow 3 (95th percentile 53.33 ms)
Run 10: Statistics of WebRTC media

Start at: 2018-03-07 08:40:14
End at: 2018-03-07 08:40:44

# Below is generated by plot.py at 2018-03-07 11:53:37
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 4.38 Mbit/s
  95th percentile per-packet one-way delay: 53.996 ms
  Loss rate: 0.01%
-- Flow 1:
  Average throughput: 2.30 Mbit/s
  95th percentile per-packet one-way delay: 50.586 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 1.46 Mbit/s
  95th percentile per-packet one-way delay: 54.066 ms
  Loss rate: 0.02%
-- Flow 3:
  Average throughput: 0.63 Mbit/s
  95th percentile per-packet one-way delay: 53.387 ms
  Loss rate: 0.01%
Run 10: Report of WebRTC media — Data Link

Throughput (Mbit/s)

0.0 0.5 1.0 1.5 2.0 2.5 3.0

Time (s)

Flow 1 ingress (mean 2.30 Mbit/s)  Flow 1 egress (mean 2.30 Mbit/s)
Flow 2 ingress (mean 1.46 Mbit/s)  Flow 2 egress (mean 1.46 Mbit/s)
Flow 3 ingress (mean 0.63 Mbit/s)  Flow 3 egress (mean 0.63 Mbit/s)

Per-packet one-way delay (ms)

50 51 52 53 54 55 56

Time (s)

Flow 1 (99th percentile 50.59 ms)  Flow 2 (99th percentile 54.07 ms)  Flow 3 (99th percentile 53.39 ms)
Run 1: Statistics of Sprout

Start at: 2018-03-07 06:17:01
End at: 2018-03-07 06:17:31

# Below is generated by plot.py at 2018-03-07 11:53:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.44 Mbit/s
95th percentile per-packet one-way delay: 51.775 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.83 Mbit/s
95th percentile per-packet one-way delay: 51.715 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.72 Mbit/s
95th percentile per-packet one-way delay: 51.920 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.51 Mbit/s
95th percentile per-packet one-way delay: 51.579 ms
Loss rate: 0.00%
Run 1: Report of Sprout — Data Link

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

- **Throughput (Mbps)** vs. **Time (s)**
  - Flow 1 ingress (mean 7.83 Mbps)
  - Flow 1 egress (mean 7.83 Mbps)
  - Flow 2 ingress (mean 7.72 Mbps)
  - Flow 2 egress (mean 7.72 Mbps)
  - Flow 3 ingress (mean 7.51 Mbps)
  - Flow 3 egress (mean 7.51 Mbps)

- **Per-packet one-way delay (ms)** vs. **Time (s)**
  - Flow 1 (95th percentile 51.72 ms)
  - Flow 2 (95th percentile 51.92 ms)
  - Flow 3 (95th percentile 51.58 ms)
Run 2: Statistics of Sprout

Start at: 2018-03-07 06:34:33
End at: 2018-03-07 06:35:03

# Below is generated by plot.py at 2018-03-07 11:53:37
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 15.54 Mbit/s
  95th percentile per-packet one-way delay: 51.654 ms
  Loss rate: 0.00%
  -- Flow 1:
    Average throughput: 7.88 Mbit/s
    95th percentile per-packet one-way delay: 51.798 ms
    Loss rate: 0.00%
  -- Flow 2:
    Average throughput: 7.76 Mbit/s
    95th percentile per-packet one-way delay: 51.487 ms
    Loss rate: 0.00%
  -- Flow 3:
    Average throughput: 7.59 Mbit/s
    95th percentile per-packet one-way delay: 51.762 ms
    Loss rate: 0.00%
Run 2: Report of Sprout — Data Link
Run 3: Statistics of Sprout

Start at: 2018-03-07 06:51:41
End at: 2018-03-07 06:52:11

# Below is generated by plot.py at 2018-03-07 11:53:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.55 Mbit/s
95th percentile per-packet one-way delay: 51.609 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.83 Mbit/s
95th percentile per-packet one-way delay: 51.583 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.86 Mbit/s
95th percentile per-packet one-way delay: 51.570 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.56 Mbit/s
95th percentile per-packet one-way delay: 51.818 ms
Loss rate: 0.00%
Run 3: Report of Sprout — Data Link
Run 4: Statistics of Sprout

Start at: 2018-03-07 07:09:13
End at: 2018-03-07 07:09:43

# Below is generated by plot.py at 2018-03-07 11:53:37
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 15.41 Mbit/s
  95th percentile per-packet one-way delay: 51.950 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 7.83 Mbit/s
  95th percentile per-packet one-way delay: 51.779 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 7.62 Mbit/s
  95th percentile per-packet one-way delay: 53.547 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 7.65 Mbit/s
  95th percentile per-packet one-way delay: 52.158 ms
  Loss rate: 0.00%
Run 4: Report of Sprout — Data Link

Graph 1: Throughput (Mbit/s) vs. Time (s)
- Flow 1 ingress (mean 7.83 Mbit/s)
- Flow 1 egress (mean 7.83 Mbit/s)
- Flow 2 ingress (mean 7.62 Mbit/s)
- Flow 2 egress (mean 7.62 Mbit/s)
- Flow 3 ingress (mean 7.65 Mbit/s)
- Flow 3 egress (mean 7.65 Mbit/s)

Graph 2: Per packet one way delay (ms) vs. Time (s)
- Flow 1 (95th percentile 51.78 ms)
- Flow 2 (95th percentile 53.55 ms)
- Flow 3 (95th percentile 52.16 ms)
Run 5: Statistics of Sprout

Start at: 2018-03-07 07:26:38
End at: 2018-03-07 07:27:08

# Below is generated by plot.py at 2018-03-07 11:53:37
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 15.62 Mbit/s
  95th percentile per-packet one-way delay: 52.041 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 7.92 Mbit/s
  95th percentile per-packet one-way delay: 51.982 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 7.80 Mbit/s
  95th percentile per-packet one-way delay: 52.285 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 7.58 Mbit/s
  95th percentile per-packet one-way delay: 52.060 ms
  Loss rate: 0.00%
Run 5: Report of Sprout — Data Link

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

Throughput (Mbit/s) vs. Time (s)
- Flow 1 ingress (mean 7.92 Mbit/s)
- Flow 1 egress (mean 7.92 Mbit/s)
- Flow 2 ingress (mean 7.80 Mbit/s)
- Flow 2 egress (mean 7.80 Mbit/s)
- Flow 3 ingress (mean 7.58 Mbit/s)
- Flow 3 egress (mean 7.58 Mbit/s)

Delay (ms) vs. Time (s)
- Flow 1 (95th percentile 51.98 ms)
- Flow 2 (95th percentile 52.28 ms)
- Flow 3 (95th percentile 52.06 ms)
Run 6: Statistics of Sprout

Start at: 2018-03-07 07:44:06
End at: 2018-03-07 07:44:36

# Below is generated by plot.py at 2018-03-07 11:53:37
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 15.43 Mbit/s
  95th percentile per-packet one-way delay: 52.014 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 7.77 Mbit/s
  95th percentile per-packet one-way delay: 51.796 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 7.87 Mbit/s
  95th percentile per-packet one-way delay: 52.244 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 7.40 Mbit/s
  95th percentile per-packet one-way delay: 53.638 ms
  Loss rate: 0.00%
Run 6: Report of Sprout — Data Link
Run 7: Statistics of Sprout

Start at: 2018-03-07 08:01:42
End at: 2018-03-07 08:02:12

# Below is generated by plot.py at 2018-03-07 11:53:37
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 15.39 Mbit/s
  95th percentile per-packet one-way delay: 51.498 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 7.76 Mbit/s
  95th percentile per-packet one-way delay: 51.417 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 7.91 Mbit/s
  95th percentile per-packet one-way delay: 51.577 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 7.20 Mbit/s
  95th percentile per-packet one-way delay: 52.107 ms
  Loss rate: 0.00%
Run 7: Report of Sprout — Data Link

[Graphs showing throughput and per packet one-way delay]
Run 8: Statistics of Sprout

Start at: 2018-03-07 08:19:25
End at: 2018-03-07 08:19:55

# Below is generated by plot.py at 2018-03-07 11:53:37
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 15.40 Mbit/s
  95th percentile per-packet one-way delay: 52.292 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 7.84 Mbit/s
  95th percentile per-packet one-way delay: 52.183 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 7.75 Mbit/s
  95th percentile per-packet one-way delay: 52.730 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 7.35 Mbit/s
  95th percentile per-packet one-way delay: 53.184 ms
  Loss rate: 0.00%
Run 9: Statistics of Sprout

Start at: 2018-03-07 08:36:34
End at: 2018-03-07 08:37:04

# Below is generated by plot.py at 2018-03-07 11:53:37
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 15.70 Mbit/s
  95th percentile per-packet one-way delay: 52.084 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 7.96 Mbit/s
  95th percentile per-packet one-way delay: 52.140 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 7.84 Mbit/s
  95th percentile per-packet one-way delay: 52.409 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 7.68 Mbit/s
  95th percentile per-packet one-way delay: 51.639 ms
  Loss rate: 0.00%
Run 9: Report of Sprout — Data Link

[Graphs showing throughput and per-packet one-way delay for Flows 1, 2, and 3]
Run 10: Statistics of Sprout

Start at: 2018-03-07 08:53:49
End at: 2018-03-07 08:54:19

# Below is generated by plot.py at 2018-03-07 11:53:37
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 15.57 Mbit/s
  95th percentile per-packet one-way delay: 51.505 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 7.89 Mbit/s
  95th percentile per-packet one-way delay: 51.514 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 7.80 Mbit/s
  95th percentile per-packet one-way delay: 51.429 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 7.59 Mbit/s
  95th percentile per-packet one-way delay: 53.466 ms
  Loss rate: 0.00%
Run 10: Report of Sprout — Data Link
Run 1: Statistics of TaoVA-100x

Start at: 2018-03-07 06:16:00
End at: 2018-03-07 06:16:30

# Below is generated by plot.py at 2018-03-07 11:55:37
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 258.96 Mbit/s
  95th percentile per-packet one-way delay: 59.160 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 188.81 Mbit/s
  95th percentile per-packet one-way delay: 61.210 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 66.90 Mbit/s
  95th percentile per-packet one-way delay: 53.358 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 77.21 Mbit/s
  95th percentile per-packet one-way delay: 54.039 ms
  Loss rate: 0.00%
Run 1: Report of TaoVA-100x — Data Link

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

- Flow 1 ingress (mean 188.83 Mbit/s)
- Flow 1 egress (mean 188.81 Mbit/s)
- Flow 2 ingress (mean 66.99 Mbit/s)
- Flow 2 egress (mean 66.90 Mbit/s)
- Flow 3 ingress (mean 77.20 Mbit/s)
- Flow 3 egress (mean 77.21 Mbit/s)

- Flow 1 95th percentile 61.21 ms
- Flow 2 95th percentile 53.36 ms
- Flow 3 95th percentile 54.04 ms
Run 2: Statistics of TaoVA-100x

Start at: 2018-03-07 06:33:29
End at: 2018-03-07 06:33:59

# Below is generated by plot.py at 2018-03-07 11:56:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 282.43 Mbit/s
95th percentile per-packet one-way delay: 64.118 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 144.93 Mbit/s
95th percentile per-packet one-way delay: 60.215 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 141.91 Mbit/s
95th percentile per-packet one-way delay: 61.258 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 130.17 Mbit/s
95th percentile per-packet one-way delay: 73.637 ms
Loss rate: 0.00%
Run 2: Report of TaoVA-100x — Data Link

![Throughput Graph]

![Delay Graph]

Legend:
- Blue dashed line: Flow 1 ingress (mean 145.11 Mbit/s)
- Blue solid line: Flow 1 egress (mean 144.93 Mbit/s)
- Green dashed line: Flow 2 ingress (mean 141.91 Mbit/s)
- Green solid line: Flow 2 egress (mean 141.91 Mbit/s)
- Grey dashed line: Flow 3 ingress (mean 130.19 Mbit/s)
- Grey solid line: Flow 3 egress (mean 130.17 Mbit/s)

Legend:
- Blue circle: Flow 1 (95th percentile 60.22 ms)
- Green circle: Flow 2 (95th percentile 61.26 ms)
- Red circle: Flow 3 (95th percentile 73.64 ms)
Run 3: Statistics of TaoVA-100x

Start at: 2018-03-07 06:50:49
End at: 2018-03-07 06:51:19

# Below is generated by plot.py at 2018-03-07 11:56:26
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 139.00 Mbit/s
  95th percentile per-packet one-way delay: 56.865 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 67.79 Mbit/s
  95th percentile per-packet one-way delay: 55.134 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 13.43 Mbit/s
  95th percentile per-packet one-way delay: 53.179 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 187.74 Mbit/s
  95th percentile per-packet one-way delay: 58.105 ms
  Loss rate: 0.00%
Run 3: Report of TaoVA-100x — Data Link

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

**Throughput (Mbps)**

<table>
<thead>
<tr>
<th>Flow 1 ingress (mean 67.79 Mbps)</th>
<th>Flow 1 egress (mean 67.79 Mbps)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow 2 ingress (mean 13.43 Mbps)</td>
<td>Flow 2 egress (mean 13.43 Mbps)</td>
</tr>
<tr>
<td>Flow 3 ingress (mean 187.79 Mbps)</td>
<td>Flow 3 egress (mean 187.74 Mbps)</td>
</tr>
</tbody>
</table>

**Round Trip Time (ms)**

| Flow 1 (95th percentile 55.13 ms) | Flow 2 (95th percentile 53.18 ms) | Flow 3 (95th percentile 58.10 ms) |

169
Run 4: Statistics of TaoVA-100x

Start at: 2018-03-07 07:08:16
End at: 2018-03-07 07:08:46

# Below is generated by plot.py at 2018-03-07 11:56:26
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 201.97 Mbit/s
  95th percentile per-packet one-way delay: 55.785 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 187.02 Mbit/s
  95th percentile per-packet one-way delay: 56.160 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 16.42 Mbit/s
  95th percentile per-packet one-way delay: 53.489 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 12.22 Mbit/s
  95th percentile per-packet one-way delay: 54.132 ms
  Loss rate: 0.00%
Run 5: Statistics of TaoVA-100x

Start at: 2018-03-07 07:25:41
End at: 2018-03-07 07:26:11

# Below is generated by plot.py at 2018-03-07 11:56:26
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 197.01 Mbit/s
  95th percentile per-packet one-way delay: 58.364 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 12.84 Mbit/s
  95th percentile per-packet one-way delay: 53.521 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 157.64 Mbit/s
  95th percentile per-packet one-way delay: 61.483 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 238.70 Mbit/s
  95th percentile per-packet one-way delay: 55.914 ms
  Loss rate: 0.00%
Run 5: Report of TaoVA-100x — Data Link

![Graph 1](image1.png)

- Flow 1 ingress (mean 12.84 Mbit/s)
- Flow 1 egress (mean 12.84 Mbit/s)
- Flow 2 ingress (mean 157.66 Mbit/s)
- Flow 2 egress (mean 157.66 Mbit/s)
- Flow 3 ingress (mean 238.69 Mbit/s)
- Flow 3 egress (mean 238.70 Mbit/s)

![Graph 2](image2.png)

- Flow 1 (95th percentile 53.52 ms)
- Flow 2 (95th percentile 61.48 ms)
- Flow 3 (95th percentile 55.91 ms)
Run 6: Statistics of TaoVA-100x

Start at: 2018-03-07 07:43:14
End at: 2018-03-07 07:43:44

# Below is generated by plot.py at 2018-03-07 11:56:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 151.38 Mbit/s
95th percentile per-packet one-way delay: 56.803 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 15.17 Mbit/s
95th percentile per-packet one-way delay: 54.378 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 96.81 Mbit/s
95th percentile per-packet one-way delay: 54.006 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 216.19 Mbit/s
95th percentile per-packet one-way delay: 61.817 ms
Loss rate: 0.00%
Run 6: Report of TaoVA-100x — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 15.17 Mbps)
Flow 1 egress (mean 15.17 Mbps)
Flow 2 ingress (mean 96.63 Mbps)
Flow 2 egress (mean 96.81 Mbps)
Flow 3 ingress (mean 216.19 Mbps)
Flow 3 egress (mean 216.19 Mbps)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 54.38 ms)
Flow 2 (95th percentile 54.01 ms)
Flow 3 (95th percentile 61.82 ms)
Run 7: Statistics of TaoVA-100x

Start at: 2018-03-07 08:00:39
End at: 2018-03-07 08:01:09

# Below is generated by plot.py at 2018-03-07 12:00:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 276.56 Mbit/s
95th percentile per-packet one-way delay: 62.811 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 150.20 Mbit/s
95th percentile per-packet one-way delay: 64.383 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 195.30 Mbit/s
95th percentile per-packet one-way delay: 61.501 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 12.95 Mbit/s
95th percentile per-packet one-way delay: 54.856 ms
Loss rate: 1.65%
Run 7: Report of TaoVA-100x — Data Link
Run 8: Statistics of TaoVA-100x

Start at: 2018-03-07 08:18:17
End at: 2018-03-07 08:18:47

# Below is generated by plot.py at 2018-03-07 12:02:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 325.40 Mbit/s
95th percentile per-packet one-way delay: 59.514 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 158.84 Mbit/s
95th percentile per-packet one-way delay: 59.529 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 206.68 Mbit/s
95th percentile per-packet one-way delay: 61.652 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 87.02 Mbit/s
95th percentile per-packet one-way delay: 53.827 ms
Loss rate: 0.00%
Run 8: Report of TaoVA-100x — Data Link

[Graphs showing throughput and per-packet one-way delay]
Run 9: Statistics of TaoVA-100x

Start at: 2018-03-07 08:35:46
End at: 2018-03-07 08:36:16

# Below is generated by plot.py at 2018-03-07 12:02:21
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 100.08 Mbit/s
  95th percentile per-packet one-way delay: 54.340 ms
  Loss rate: 0.00%
  -- Flow 1:
  Average throughput: 13.98 Mbit/s
  95th percentile per-packet one-way delay: 54.321 ms
  Loss rate: 0.00%
  -- Flow 2:
  Average throughput: 13.99 Mbit/s
  95th percentile per-packet one-way delay: 53.029 ms
  Loss rate: 0.00%
  -- Flow 3:
  Average throughput: 231.52 Mbit/s
  95th percentile per-packet one-way delay: 55.138 ms
  Loss rate: 0.00%
Run 10: Statistics of TaoVA-100x

Start at: 2018-03-07 08:52:58
End at: 2018-03-07 08:53:28

# Below is generated by plot.py at 2018-03-07 12:02:21
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 129.65 Mbit/s
  95th percentile per-packet one-way delay: 62.300 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 15.49 Mbit/s
  95th percentile per-packet one-way delay: 54.328 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 164.89 Mbit/s
  95th percentile per-packet one-way delay: 63.301 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 13.14 Mbit/s
  95th percentile per-packet one-way delay: 53.737 ms
  Loss rate: 0.00%
Run 1: Statistics of TCP Vegas

Start at: 2018-03-07 06:12:00
End at: 2018-03-07 06:12:30

# Below is generated by plot.py at 2018-03-07 12:02:21
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 199.77 Mbit/s
  95th percentile per-packet one-way delay: 58.301 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 97.89 Mbit/s
  95th percentile per-packet one-way delay: 54.864 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 116.18 Mbit/s
  95th percentile per-packet one-way delay: 61.051 ms
  Loss rate: 0.01%
-- Flow 3:
  Average throughput: 73.75 Mbit/s
  95th percentile per-packet one-way delay: 51.759 ms
  Loss rate: 0.00%
Run 1: Report of TCP Vegas — Data Link

Throughput (Mbps)

Time (s)

- Flow 1 ingress (mean 97.90 Mbps)
- Flow 2 ingress (mean 116.17 Mbps)
- Flow 3 ingress (mean 73.75 Mbps)
- Flow 1 egress (mean 97.89 Mbps)
- Flow 2 egress (mean 116.18 Mbps)
- Flow 3 egress (mean 73.75 Mbps)

Per packet one way delay (ms)

Time (s)

- Flow 1 (95th percentile 54.86 ms)
- Flow 2 (95th percentile 61.05 ms)
- Flow 3 (95th percentile 51.76 ms)
Run 2: Statistics of TCP Vegas

Start at: 2018-03-07 06:29:25
End at: 2018-03-07 06:29:55

# Below is generated by plot.py at 2018-03-07 12:02:21
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 249.63 Mbit/s
  95th percentile per-packet one-way delay: 60.686 ms
  Loss rate: 0.01%
-- Flow 1:
  Average throughput: 141.55 Mbit/s
  95th percentile per-packet one-way delay: 57.011 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 130.14 Mbit/s
  95th percentile per-packet one-way delay: 65.543 ms
  Loss rate: 0.01%
-- Flow 3:
  Average throughput: 64.80 Mbit/s
  95th percentile per-packet one-way delay: 53.868 ms
  Loss rate: 0.00%
Run 2: Report of TCP Vegas — Data Link

[Graph showing throughput and packet delivery time over time for different flows with specific mean throughputs and packet delay percentiles listed]

187
Run 3: Statistics of TCP Vegas

Start at: 2018-03-07 06:46:48
End at: 2018-03-07 06:47:18

# Below is generated by plot.py at 2018-03-07 12:02:21
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 208.33 Mbit/s
  95th percentile per-packet one-way delay: 61.602 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 186.35 Mbit/s
  95th percentile per-packet one-way delay: 61.996 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 11.10 Mbit/s
  95th percentile per-packet one-way delay: 54.294 ms
  Loss rate: 0.03%
-- Flow 3:
  Average throughput: 44.04 Mbit/s
  95th percentile per-packet one-way delay: 54.875 ms
  Loss rate: 0.00%
Run 3: Report of TCP Vegas — Data Link
Run 4: Statistics of TCP Vegas

Start at: 2018-03-07 07:04:12
End at: 2018-03-07 07:04:42

# Below is generated by plot.py at 2018-03-07 12:02:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 176.11 Mbit/s
95th percentile per-packet one-way delay: 52.060 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 83.68 Mbit/s
95th percentile per-packet one-way delay: 52.117 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 135.97 Mbit/s
95th percentile per-packet one-way delay: 52.045 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 5.81 Mbit/s
95th percentile per-packet one-way delay: 51.199 ms
Loss rate: 0.06%
Run 4: Report of TCP Vegas — Data Link

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

- **Flow 1**: Ingress (mean 83.67 Mbit/s), Egress (mean 83.68 Mbit/s)
- **Flow 2**: Ingress (mean 135.98 Mbit/s), Egress (mean 135.97 Mbit/s)
- **Flow 3**: Ingress (mean 5.81 Mbit/s), Egress (mean 5.81 Mbit/s)

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

- **Flow 1**: 95th percentile 52.12 ms
- **Flow 2**: 95th percentile 52.05 ms
- **Flow 3**: 95th percentile 51.20 ms
Run 5: Statistics of TCP Vegas

Start at: 2018-03-07 07:21:41
End at: 2018-03-07 07:22:11

# Below is generated by plot.py at 2018-03-07 12:02:22
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 262.46 Mbit/s
  95th percentile per-packet one-way delay: 59.884 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 216.16 Mbit/s
  95th percentile per-packet one-way delay: 60.270 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 66.71 Mbit/s
  95th percentile per-packet one-way delay: 55.523 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 5.68 Mbit/s
  95th percentile per-packet one-way delay: 53.631 ms
  Loss rate: 0.11%
Run 5: Report of TCP Vegas — Data Link

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

- **Flow 1 ingress (mean 216.13 Mbps)**
- **Flow 1 egress (mean 216.16 Mbps)**
- **Flow 2 ingress (mean 66.70 Mbps)**
- **Flow 2 egress (mean 66.71 Mbps)**
- **Flow 3 ingress (mean 5.69 Mbps)**
- **Flow 3 egress (mean 5.68 Mbps)**

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

- **Flow 1 (95th percentile 60.27 ms)**
- **Flow 2 (95th percentile 55.52 ms)**
- **Flow 3 (95th percentile 53.63 ms)**
Run 6: Statistics of TCP Vegas

Start at: 2018-03-07 07:39:09
End at: 2018-03-07 07:39:39

# Below is generated by plot.py at 2018-03-07 12:02:22
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 293.15 Mbit/s
  95th percentile per-packet one-way delay: 59.360 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 191.91 Mbit/s
  95th percentile per-packet one-way delay: 60.371 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 81.32 Mbit/s
  95th percentile per-packet one-way delay: 53.494 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 141.98 Mbit/s
  95th percentile per-packet one-way delay: 52.435 ms
  Loss rate: 0.00%
Run 6: Report of TCP Vegas — Data Link
Run 7: Statistics of TCP Vegas

Start at: 2018-03-07 07:56:35
End at: 2018-03-07 07:57:05

# Below is generated by plot.py at 2018-03-07 12:02:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 236.05 Mbit/s
95th percentile per-packet one-way delay: 59.965 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 86.07 Mbit/s
95th percentile per-packet one-way delay: 55.030 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 190.91 Mbit/s
95th percentile per-packet one-way delay: 61.456 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 69.08 Mbit/s
95th percentile per-packet one-way delay: 55.732 ms
Loss rate: 0.00%
Run 7: Report of TCP Vegas — Data Link

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

![Graph of Per-packet one-way delay vs Time](image2.png)
Run 8: Statistics of TCP Vegas

Start at: 2018-03-07 08:14:17
End at: 2018-03-07 08:14:47

# Below is generated by plot.py at 2018-03-07 12:02:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 231.24 Mbit/s
95th percentile per-packet one-way delay: 52.627 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 147.54 Mbit/s
95th percentile per-packet one-way delay: 52.708 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 87.49 Mbit/s
95th percentile per-packet one-way delay: 51.808 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 77.09 Mbit/s
95th percentile per-packet one-way delay: 54.586 ms
Loss rate: 0.00%
Run 8: Report of TCP Vegas — Data Link

![Throughput Graph]

- Flow 1 ingress (mean 147.52 Mbit/s)
- Flow 1 egress (mean 147.54 Mbit/s)
- Flow 2 ingress (mean 87.48 Mbit/s)
- Flow 2 egress (mean 87.49 Mbit/s)
- Flow 3 ingress (mean 76.88 Mbit/s)
- Flow 3 egress (mean 77.09 Mbit/s)

![Per-packet one-way delay Graph]

- Flow 1 (95th percentile 52.71 ms)
- Flow 2 (95th percentile 51.81 ms)
- Flow 3 (95th percentile 54.59 ms)
Run 9: Statistics of TCP Vegas

Start at: 2018-03-07 08:31:43
End at: 2018-03-07 08:32:13

# Below is generated by plot.py at 2018-03-07 12:03:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 265.31 Mbit/s
95th percentile per-packet one-way delay: 58.553 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 112.85 Mbit/s
95th percentile per-packet one-way delay: 55.671 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 145.94 Mbit/s
95th percentile per-packet one-way delay: 57.583 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 167.33 Mbit/s
95th percentile per-packet one-way delay: 62.543 ms
Loss rate: 0.06%
Run 9: Report of TCP Vegas — Data Link
Run 10: Statistics of TCP Vegas

Start at: 2018-03-07 08:48:57
End at: 2018-03-07 08:49:27

# Below is generated by plot.py at 2018-03-07 12:03:22
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 227.68 Mbit/s
  95th percentile per-packet one-way delay: 60.569 ms
  Loss rate: 0.01%
-- Flow 1:
  Average throughput: 102.22 Mbit/s
  95th percentile per-packet one-way delay: 56.509 ms
  Loss rate: 0.02%
-- Flow 2:
  Average throughput: 147.14 Mbit/s
  95th percentile per-packet one-way delay: 62.683 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 83.13 Mbit/s
  95th percentile per-packet one-way delay: 58.962 ms
  Loss rate: 0.03%
Run 10: Report of TCP Vegas — Data Link

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

Start at: 2018-03-07 06:03:48
End at: 2018-03-07 06:04:18

# Below is generated by plot.py at 2018-03-07 12:06:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 369.56 Mbit/s
95th percentile per-packet one-way delay: 146.353 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 211.69 Mbit/s
95th percentile per-packet one-way delay: 134.775 ms
Loss rate: 1.21%
-- Flow 2:
Average throughput: 168.51 Mbit/s
95th percentile per-packet one-way delay: 125.605 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 141.13 Mbit/s
95th percentile per-packet one-way delay: 217.509 ms
Loss rate: 0.75%
Run 1: Report of Verus — Data Link

![Graph showing throughput and delay over time for different flows with their respective means and 95th percentiles.](image-url)
Run 2: Statistics of Verus

Start at: 2018-03-07 06:21:19
End at: 2018-03-07 06:21:49

# Below is generated by plot.py at 2018-03-07 12:06:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 346.57 Mbit/s
95th percentile per-packet one-way delay: 151.845 ms
Loss rate: 0.98%
-- Flow 1:
  Average throughput: 183.19 Mbit/s
  95th percentile per-packet one-way delay: 147.063 ms
  Loss rate: 0.22%
-- Flow 2:
  Average throughput: 184.07 Mbit/s
  95th percentile per-packet one-way delay: 188.694 ms
  Loss rate: 2.40%
-- Flow 3:
  Average throughput: 124.29 Mbit/s
  95th percentile per-packet one-way delay: 146.255 ms
  Loss rate: 0.02%
Run 2: Report of Verus — Data Link

![Throughput and Delay Graphs](Image)

- **Throughput Graph**
  - Flow 1 ingress (mean 183.60 Mbit/s)
  - Flow 1 egress (mean 183.19 Mbit/s)
  - Flow 2 ingress (mean 188.63 Mbit/s)
  - Flow 2 egress (mean 184.07 Mbit/s)
  - Flow 3 ingress (mean 124.29 Mbit/s)
  - Flow 3 egress (mean 124.29 Mbit/s)

- **Per-packet one-way delay (ms) Graph**
  - Flow 1 (95th percentile 147.06 ms)
  - Flow 2 (95th percentile 188.69 ms)
  - Flow 3 (95th percentile 146.25 ms)
Run 3: Statistics of Verus

Start at: 2018-03-07 06:38:44
End at: 2018-03-07 06:39:14

# Below is generated by plot.py at 2018-03-07 12:06:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 326.48 Mbit/s
95th percentile per-packet one-way delay: 136.943 ms
Loss rate: 1.61%
-- Flow 1:
Average throughput: 190.89 Mbit/s
95th percentile per-packet one-way delay: 135.683 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 131.34 Mbit/s
95th percentile per-packet one-way delay: 123.784 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 147.14 Mbit/s
95th percentile per-packet one-way delay: 272.073 ms
Loss rate: 7.19%
Run 3: Report of Verus — Data Link
Run 4: Statistics of Verus

Start at: 2018-03-07 06:56:00
End at: 2018-03-07 06:56:30

# Below is generated by plot.py at 2018-03-07 12:07:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 357.04 Mbit/s
95th percentile per-packet one-way delay: 133.765 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 206.45 Mbit/s
95th percentile per-packet one-way delay: 148.520 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 174.40 Mbit/s
95th percentile per-packet one-way delay: 120.576 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 107.65 Mbit/s
95th percentile per-packet one-way delay: 125.999 ms
Loss rate: 0.00%
Run 4: Report of Verus — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 207.64 Mbit/s) — Flow 1 egress (mean 206.45 Mbit/s)
Flow 2 ingress (mean 174.40 Mbit/s) — Flow 2 egress (mean 174.40 Mbit/s)
Flow 3 ingress (mean 107.17 Mbit/s) — Flow 3 egress (mean 107.65 Mbit/s)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 148.52 ms) — Flow 2 (95th percentile 120.58 ms) — Flow 3 (95th percentile 126.00 ms)
Run 5: Statistics of Verus

Start at: 2018-03-07 07:13:31
End at: 2018-03-07 07:14:01

# Below is generated by plot.py at 2018-03-07 12:07:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 318.53 Mbit/s
95th percentile per-packet one-way delay: 168.298 ms
Loss rate: 2.23%
-- Flow 1:
Average throughput: 172.56 Mbit/s
95th percentile per-packet one-way delay: 192.922 ms
Loss rate: 2.92%
-- Flow 2:
Average throughput: 152.71 Mbit/s
95th percentile per-packet one-way delay: 115.861 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 135.33 Mbit/s
95th percentile per-packet one-way delay: 194.787 ms
Loss rate: 4.02%
Run 5: Report of Verus — Data Link

---

**Throughput (Mbps):**

- **Flow 1 ingress (mean 177.77 Mbps):**
- **Flow 1 egress (mean 172.56 Mbps):**
- **Flow 2 ingress (mean 153.06 Mbps):**
- **Flow 2 egress (mean 152.71 Mbps):**
- **Flow 3 ingress (mean 141.04 Mbps):**
- **Flow 3 egress (mean 135.33 Mbps):**

---

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

- **Flow 1 (95th percentile 192.92 ms):**
- **Flow 2 (95th percentile 115.86 ms):**
- **Flow 3 (95th percentile 194.79 ms):**

---

213
Run 6: Statistics of Verus

Start at: 2018-03-07 07:30:59
End at: 2018-03-07 07:31:29

# Below is generated by plot.py at 2018-03-07 12:08:47
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 401.85 Mbit/s
  95th percentile per-packet one-way delay: 135.615 ms
  Loss rate: 0.48%
-- Flow 1:
  Average throughput: 205.34 Mbit/s
  95th percentile per-packet one-way delay: 112.600 ms
  Loss rate: 0.18%
-- Flow 2:
  Average throughput: 211.72 Mbit/s
  95th percentile per-packet one-way delay: 132.702 ms
  Loss rate: 0.55%
-- Flow 3:
  Average throughput: 169.50 Mbit/s
  95th percentile per-packet one-way delay: 198.183 ms
  Loss rate: 1.42%
Run 6: Report of Verus — Data Link
Run 7: Statistics of Verus

Start at: 2018-03-07 07:48:27
End at: 2018-03-07 07:48:57

# Below is generated by plot.py at 2018-03-07 12:09:07
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 375.17 Mbit/s
  95th percentile per-packet one-way delay: 136.417 ms
  Loss rate: 0.20%
-- Flow 1:
  Average throughput: 216.50 Mbit/s
  95th percentile per-packet one-way delay: 132.360 ms
  Loss rate: 0.14%
-- Flow 2:
  Average throughput: 183.27 Mbit/s
  95th percentile per-packet one-way delay: 122.744 ms
  Loss rate: 0.18%
-- Flow 3:
  Average throughput: 112.28 Mbit/s
  95th percentile per-packet one-way delay: 187.663 ms
  Loss rate: 0.61%
Run 7: Report of Verus — Data Link
Run 8: Statistics of Verus

Start at: 2018-03-07 08:06:05
End at: 2018-03-07 08:06:35

# Below is generated by plot.py at 2018-03-07 12:09:47
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 380.31 Mbit/s
  95th percentile per-packet one-way delay: 136.291 ms
  Loss rate: 1.00%
-- Flow 1:
  Average throughput: 210.74 Mbit/s
  95th percentile per-packet one-way delay: 128.354 ms
  Loss rate: 1.17%
-- Flow 2:
  Average throughput: 183.83 Mbit/s
  95th percentile per-packet one-way delay: 164.743 ms
  Loss rate: 1.10%
-- Flow 3:
  Average throughput: 145.62 Mbit/s
  95th percentile per-packet one-way delay: 101.807 ms
  Loss rate: 0.00%
Run 8: Report of Verus — Data Link

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

- Flow 1 ingress (mean 213.27 Mbit/s)
- Flow 1 egress (mean 210.74 Mbit/s)
- Flow 2 ingress (mean 186.81 Mbit/s)
- Flow 2 egress (mean 183.83 Mbit/s)
- Flow 3 ingress (mean 145.73 Mbit/s)
- Flow 3 egress (mean 145.62 Mbit/s)
Run 9: Statistics of Verus

Start at: 2018-03-07 08:23:43
End at: 2018-03-07 08:24:13

# Below is generated by plot.py at 2018-03-07 12:11:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 313.07 Mbit/s
95th percentile per-packet one-way delay: 148.925 ms
Loss rate: 1.59%
-- Flow 1:
Average throughput: 181.03 Mbit/s
95th percentile per-packet one-way delay: 136.537 ms
Loss rate: 2.71%
-- Flow 2:
Average throughput: 156.86 Mbit/s
95th percentile per-packet one-way delay: 163.567 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 95.99 Mbit/s
95th percentile per-packet one-way delay: 110.070 ms
Loss rate: 0.00%
Run 9: Report of Verus — Data Link

![Graph showing network performance metrics over time]

- Flow 1 ingress (mean 186.09 Mbit/s)
- Flow 1 egress (mean 181.03 Mbit/s)
- Flow 2 ingress (mean 157.27 Mbit/s)
- Flow 2 egress (mean 156.86 Mbit/s)
- Flow 3 ingress (mean 86.21 Mbit/s)
- Flow 3 egress (mean 95.99 Mbit/s)

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

- Flow 1 (95th percentile 136.54 ms)
- Flow 2 (95th percentile 163.57 ms)
- Flow 3 (95th percentile 110.07 ms)
Run 10: Statistics of Verus

Start at: 2018-03-07 08:40:53
End at: 2018-03-07 08:41:23

# Below is generated by plot.py at 2018-03-07 12:11:38
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 311.74 Mbit/s
  95th percentile per-packet one-way delay: 186.665 ms
  Loss rate: 1.30%
-- Flow 1:
  Average throughput: 171.84 Mbit/s
  95th percentile per-packet one-way delay: 143.998 ms
  Loss rate: 1.03%
-- Flow 2:
  Average throughput: 159.70 Mbit/s
  95th percentile per-packet one-way delay: 177.787 ms
  Loss rate: 1.64%
-- Flow 3:
  Average throughput: 114.08 Mbit/s
  95th percentile per-packet one-way delay: 234.526 ms
  Loss rate: 1.56%
Run 10: Report of Verus — Data Link

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

- Flow 1 ingress (mean 173.79 Mb/s)
- Flow 1 egress (mean 171.84 Mb/s)
- Flow 2 ingress (mean 162.44 Mb/s)
- Flow 2 egress (mean 159.70 Mb/s)
- Flow 3 ingress (mean 104.37 Mb/s)
- Flow 3 egress (mean 114.08 Mb/s)

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

- Flow 1 (95th percentile 144.00 ms)
- Flow 2 (95th percentile 177.79 ms)
- Flow 3 (95th percentile 234.53 ms)
Run 1: Statistics of Copa

Start at: 2018-03-07 06:11:06  
End at: 2018-03-07 06:11:36  

# Below is generated by plot.py at 2018-03-07 12:11:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 156.93 Mbit/s  
95th percentile per-packet one-way delay: 53.639 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 84.61 Mbit/s  
95th percentile per-packet one-way delay: 50.460 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 63.95 Mbit/s  
95th percentile per-packet one-way delay: 53.830 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 89.56 Mbit/s  
95th percentile per-packet one-way delay: 50.455 ms  
Loss rate: 0.00%
Run 1: Report of Copa — Data Link

---

**Graph 1:**
- X-axis: Time (s)
- Y-axis: Throughput (Mbps)
- Lines indicate throughput over time for different flows.
- Legend:
  - Flow 1 ingress (mean 84.60 Mbps)
  - Flow 1 egress (mean 84.61 Mbps)
  - Flow 2 ingress (mean 63.94 Mbps)
  - Flow 2 egress (mean 63.95 Mbps)
  - Flow 3 ingress (mean 89.56 Mbps)
  - Flow 3 egress (mean 89.56 Mbps)

**Graph 2:**
- X-axis: Time (s)
- Y-axis: Per-packet one-way delay (ms)
- Lines indicate delay over time for different flows.
- Legend:
  - Flow 1 (95th percentile 50.46 ms)
  - Flow 2 (95th percentile 53.83 ms)
  - Flow 3 (95th percentile 50.45 ms)
Run 2: Statistics of Copa

Start at: 2018-03-07 06:28:32
End at: 2018-03-07 06:29:02

# Below is generated by plot.py at 2018-03-07 12:11:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 154.17 Mbit/s
95th percentile per-packet one-way delay: 53.338 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 69.56 Mbit/s
95th percentile per-packet one-way delay: 50.801 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 73.33 Mbit/s
95th percentile per-packet one-way delay: 53.466 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 107.86 Mbit/s
95th percentile per-packet one-way delay: 53.283 ms
Loss rate: 0.00%
Run 2: Report of Copa — Data Link
Run 3: Statistics of Copa

Start at: 2018-03-07 06:45:55
End at: 2018-03-07 06:46:25

# Below is generated by plot.py at 2018-03-07 12:12:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 148.56 Mbit/s
95th percentile per-packet one-way delay: 53.248 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 77.26 Mbit/s
95th percentile per-packet one-way delay: 53.112 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 81.59 Mbit/s
95th percentile per-packet one-way delay: 50.554 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 51.22 Mbit/s
95th percentile per-packet one-way delay: 53.638 ms
Loss rate: 0.00%
Run 3: Report of Copa — Data Link

[Graph showing throughput over time for different flows with varying mean speeds and delays for each flow.

Legend:
- Flow 1 ingress (mean 77.26 Mbit/s)
- Flow 1 egress (mean 77.26 Mbit/s)
- Flow 2 ingress (mean 81.59 Mbit/s)
- Flow 2 egress (mean 81.59 Mbit/s)
- Flow 3 ingress (mean 51.22 Mbit/s)
- Flow 3 egress (mean 51.22 Mbit/s)

Delay:
- Flow 1 (95th percentile 53.11 ms)
- Flow 2 (95th percentile 50.55 ms)
- Flow 3 (95th percentile 53.64 ms)
Run 4: Statistics of Copa

Start at: 2018-03-07 07:03:18
End at: 2018-03-07 07:03:48

# Below is generated by plot.py at 2018-03-07 12:13:35
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 151.44 Mbit/s
  95th percentile per-packet one-way delay: 53.312 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 86.24 Mbit/s
  95th percentile per-packet one-way delay: 50.747 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 78.51 Mbit/s
  95th percentile per-packet one-way delay: 53.357 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 39.06 Mbit/s
  95th percentile per-packet one-way delay: 53.937 ms
  Loss rate: 0.00%
Run 4: Report of Copa — Data Link

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

- Flow 1 ingress (mean 86.24 Mbit/s)
- Flow 1 egress (mean 86.24 Mbit/s)
- Flow 2 ingress (mean 78.50 Mbit/s)
- Flow 2 egress (mean 78.51 Mbit/s)
- Flow 3 ingress (mean 39.04 Mbit/s)
- Flow 3 egress (mean 39.06 Mbit/s)

![Graph showing packet round trip times for different flows.](image-url)
Run 5: Statistics of Copa

Start at: 2018-03-07 07:20:49
End at: 2018-03-07 07:21:19

# Below is generated by plot.py at 2018-03-07 12:13:35
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 140.43 Mbit/s
  95th percentile per-packet one-way delay: 53.541 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 72.84 Mbit/s
  95th percentile per-packet one-way delay: 53.473 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 65.37 Mbit/s
  95th percentile per-packet one-way delay: 53.652 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 72.67 Mbit/s
  95th percentile per-packet one-way delay: 53.477 ms
  Loss rate: 0.00%
Run 5: Report of Copa — Data Link

![Graph of data link throughput over time](chart1.png)

![Graph of per-packet one-way delay](chart2.png)
Run 6: Statistics of Copa

Start at: 2018-03-07 07:38:16
End at: 2018-03-07 07:38:46

# Below is generated by plot.py at 2018-03-07 12:14:34
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 148.31 Mbit/s
  95th percentile per-packet one-way delay: 53.676 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 91.62 Mbit/s
  95th percentile per-packet one-way delay: 53.671 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 58.23 Mbit/s
  95th percentile per-packet one-way delay: 53.687 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 53.96 Mbit/s
  95th percentile per-packet one-way delay: 53.672 ms
  Loss rate: 0.00%
Run 6: Report of Copa — Data Link

[Graphs showing throughput and packet delay over time for different flows, withlegend explaining the lines for each flow.]
Run 7: Statistics of Copa

Start at: 2018-03-07 07:55:40
End at: 2018-03-07 07:56:10

# Below is generated by plot.py at 2018-03-07 12:16:34
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 182.09 Mbit/s
  95th percentile per-packet one-way delay: 53.794 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 81.97 Mbit/s
  95th percentile per-packet one-way delay: 50.838 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 101.90 Mbit/s
  95th percentile per-packet one-way delay: 53.847 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 97.28 Mbit/s
  95th percentile per-packet one-way delay: 50.881 ms
  Loss rate: 0.00%
Run 7: Report of Copa — Data Link

![Graph of throughputs and packet one-way delays](image)

**Throughput Graph**:
- **Flow 1 ingress (mean 81.97 Mbit/s)**
- **Flow 1 egress (mean 81.97 Mbit/s)**
- **Flow 2 ingress (mean 101.90 Mbit/s)**
- **Flow 2 egress (mean 101.90 Mbit/s)**
- **Flow 3 ingress (mean 97.28 Mbit/s)**
- **Flow 3 egress (mean 97.28 Mbit/s)**

**Per packet one-way delay Graph**: (Legend)
- **Flow 1 (95th percentile 50.84 ms)**
- **Flow 2 (95th percentile 53.85 ms)**
- **Flow 3 (95th percentile 50.88 ms)**
Run 8: Statistics of Copa

Start at: 2018-03-07 08:13:27
End at: 2018-03-07 08:13:57

# Below is generated by plot.py at 2018-03-07 12:16:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 118.45 Mbit/s
95th percentile per-packet one-way delay: 53.754 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 72.28 Mbit/s
95th percentile per-packet one-way delay: 53.447 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 52.84 Mbit/s
95th percentile per-packet one-way delay: 53.805 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 33.13 Mbit/s
95th percentile per-packet one-way delay: 54.254 ms
Loss rate: 0.00%
Run 8: Report of Copa — Data Link

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

Legend:
- Flow 1 ingress (mean 72.28 Mbit/s)
- Flow 1 egress (mean 72.28 Mbit/s)
- Flow 2 ingress (mean 52.84 Mbit/s)
- Flow 2 egress (mean 52.84 Mbit/s)
- Flow 3 ingress (mean 33.11 Mbit/s)
- Flow 3 egress (mean 33.13 Mbit/s)

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

Legend:
- Flow 1 (95th percentile 53.45 ms)
- Flow 2 (95th percentile 53.80 ms)
- Flow 3 (95th percentile 54.25 ms)
Run 9: Statistics of Copa

Start at: 2018-03-07 08:30:50
End at: 2018-03-07 08:31:20

# Below is generated by plot.py at 2018-03-07 12:16:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 143.62 Mbit/s
95th percentile per-packet one-way delay: 53.380 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 78.07 Mbit/s
95th percentile per-packet one-way delay: 53.404 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 83.21 Mbit/s
95th percentile per-packet one-way delay: 50.763 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 30.57 Mbit/s
95th percentile per-packet one-way delay: 53.831 ms
Loss rate: 0.00%
Run 9: Report of Copa — Data Link

![Throughput Graph](Image)

Flow 1 ingress (mean 78.07 Mbit/s)  
Flow 1 egress (mean 78.07 Mbit/s)  
Flow 2 ingress (mean 83.21 Mbit/s)  
Flow 2 egress (mean 83.21 Mbit/s)  
Flow 3 ingress (mean 30.56 Mbit/s)  
Flow 3 egress (mean 30.57 Mbit/s)

![Packet Delay Graph](Image)

Flow 1 (95th percentile 53.40 ms)  
Flow 2 (95th percentile 50.76 ms)  
Flow 3 (95th percentile 53.83 ms)
Run 10: Statistics of Copa

Start at: 2018-03-07 08:48:03
End at: 2018-03-07 08:48:33

# Below is generated by plot.py at 2018-03-07 12:17:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 187.77 Mbit/s
95th percentile per-packet one-way delay: 53.626 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 117.30 Mbit/s
95th percentile per-packet one-way delay: 53.616 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 78.32 Mbit/s
95th percentile per-packet one-way delay: 55.085 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 55.24 Mbit/s
95th percentile per-packet one-way delay: 53.669 ms
Loss rate: 0.00%
Run 10: Report of Copa — Data Link

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

Legend:
- Blue dotted line: Flow 1 ingress (mean 117.31 Mbit/s)
- Blue solid line: Flow 1 egress (mean 117.30 Mbit/s)
- Green dashed line: Flow 2 ingress (mean 78.32 Mbit/s)
- Green solid line: Flow 2 egress (mean 78.32 Mbit/s)
- Red dotted line: Flow 3 ingress (mean 55.23 Mbit/s)
- Red solid line: Flow 3 egress (mean 55.24 Mbit/s)

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

Legend:
- Blue circle: Flow 1 (95th percentile 53.62 ms)
- Green circle: Flow 2 (95th percentile 55.09 ms)
- Red circle: Flow 3 (95th percentile 53.67 ms)
Run 1: Statistics of FillP

Start at: 2018-03-07 06:13:45
End at: 2018-03-07 06:14:15

# Below is generated by plot.py at 2018-03-07 12:37:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1463.47 Mbit/s
95th percentile per-packet one-way delay: 174.440 ms
Loss rate: 10.44%
-- Flow 1:
Average throughput: 790.81 Mbit/s
95th percentile per-packet one-way delay: 172.966 ms
Loss rate: 9.19%
-- Flow 2:
Average throughput: 740.12 Mbit/s
95th percentile per-packet one-way delay: 155.690 ms
Loss rate: 10.99%
-- Flow 3:
Average throughput: 549.70 Mbit/s
95th percentile per-packet one-way delay: 220.081 ms
Loss rate: 14.18%
Run 1: Report of FillP — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 870.74 Mbps)
  - Flow 1 egress (mean 790.81 Mbps)
  - Flow 2 ingress (mean 833.52 Mbps)
  - Flow 2 egress (mean 740.12 Mbps)
  - Flow 3 ingress (mean 640.37 Mbps)
  - Flow 3 egress (mean 549.70 Mbps)

- **Delay (ms):**
  - Flow 1 (95th percentile 172.97 ms)
  - Flow 2 (95th percentile 155.69 ms)
  - Flow 3 (95th percentile 220.08 ms)
Run 2: Statistics of FillP

Start at: 2018-03-07 06:31:16
End at: 2018-03-07 06:31:46

# Below is generated by plot.py at 2018-03-07 12:37:57
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 1321.09 Mbit/s
  95th percentile per-packet one-way delay: 210.142 ms
  Loss rate: 12.49%
-- Flow 1:
  Average throughput: 709.81 Mbit/s
  95th percentile per-packet one-way delay: 166.182 ms
  Loss rate: 12.10%
-- Flow 2:
  Average throughput: 558.99 Mbit/s
  95th percentile per-packet one-way delay: 236.926 ms
  Loss rate: 14.90%
-- Flow 3:
  Average throughput: 723.30 Mbit/s
  95th percentile per-packet one-way delay: 160.516 ms
  Loss rate: 9.71%
Run 2: Report of FillP — Data Link

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

Flow 1 Ingress (mean 807.53 Mbit/s) — Flow 1 Egress (mean 709.81 Mbit/s)
Flow 2 Ingress (mean 656.87 Mbit/s) — Flow 2 Egress (mean 558.99 Mbit/s)
Flow 3 Ingress (mean 801.27 Mbit/s) — Flow 3 Egress (mean 723.30 Mbit/s)
Run 3: Statistics of FillP

Start at: 2018-03-07 06:48:32
End at: 2018-03-07 06:49:02

# Below is generated by plot.py at 2018-03-07 12:39:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1438.72 Mbit/s
95th percentile per-packet one-way delay: 179.689 ms
Loss rate: 12.98%
-- Flow 1:
Average throughput: 712.76 Mbit/s
95th percentile per-packet one-way delay: 161.362 ms
Loss rate: 14.28%
-- Flow 2:
Average throughput: 756.79 Mbit/s
95th percentile per-packet one-way delay: 184.689 ms
Loss rate: 10.86%
-- Flow 3:
Average throughput: 671.26 Mbit/s
95th percentile per-packet one-way delay: 242.613 ms
Loss rate: 13.46%
Run 3: Report of FillP — Data Link

![Graph showing network performance metrics](image)

- Flow 1 Ingress (mean 831.48 Mbit/s)
- Flow 1 Egress (mean 712.76 Mbit/s)
- Flow 2 Ingress (mean 849.08 Mbit/s)
- Flow 2 Egress (mean 756.79 Mbit/s)
- Flow 3 Ingress (mean 775.53 Mbit/s)
- Flow 3 Egress (mean 671.26 Mbit/s)

![Graph showing packet delay](image)

- Flow 1 (95th percentile 161.36 ms)
- Flow 2 (95th percentile 184.69 ms)
- Flow 3 (95th percentile 242.61 ms)
Run 4: Statistics of FillP

Start at: 2018-03-07 07:06:00
End at: 2018-03-07 07:06:30

# Below is generated by plot.py at 2018-03-07 12:39:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1331.54 Mbit/s
95th percentile per-packet one-way delay: 289.831 ms
Loss rate: 14.75%
-- Flow 1:
Average throughput: 720.20 Mbit/s
95th percentile per-packet one-way delay: 172.323 ms
Loss rate: 13.66%
-- Flow 2:
Average throughput: 625.63 Mbit/s
95th percentile per-packet one-way delay: 319.174 ms
Loss rate: 16.39%
-- Flow 3:
Average throughput: 589.22 Mbit/s
95th percentile per-packet one-way delay: 304.641 ms
Loss rate: 15.12%
Run 4: Report of FillP — Data Link

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

- Flow 1 Ingress (mean 834.10 Mbit/s)
- Flow 1 Egress (mean 720.20 Mbit/s)
- Flow 2 Ingress (mean 748.32 Mbit/s)
- Flow 2 Egress (mean 625.63 Mbit/s)
- Flow 3 Ingress (mean 694.04 Mbit/s)
- Flow 3 Egress (mean 589.22 Mbit/s)

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

- Flow 1 (95th percentile 172.32 ms)
- Flow 2 (95th percentile 319.17 ms)
- Flow 3 (95th percentile 304.64 ms)
Run 5: Statistics of FillP

Start at: 2018-03-07 07:23:29
End at: 2018-03-07 07:23:59

# Below is generated by plot.py at 2018-03-07 12:39:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1274.75 Mbit/s
95th percentile per-packet one-way delay: 299.396 ms
Loss rate: 15.23%
-- Flow 1:
Average throughput: 643.31 Mbit/s
95th percentile per-packet one-way delay: 295.596 ms
Loss rate: 16.38%
-- Flow 2:
Average throughput: 682.76 Mbit/s
95th percentile per-packet one-way delay: 291.400 ms
Loss rate: 12.66%
-- Flow 3:
Average throughput: 534.52 Mbit/s
95th percentile per-packet one-way delay: 314.683 ms
Loss rate: 17.35%
Run 5: Report of FillP — Data Link
Run 6: Statistics of FillP

Start at: 2018-03-07 07:40:59
End at: 2018-03-07 07:41:29

# Below is generated by plot.py at 2018-03-07 12:41:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1399.29 Mbit/s
95th percentile per-packet one-way delay: 211.004 ms
Loss rate: 13.68%
-- Flow 1:
Average throughput: 785.90 Mbit/s
95th percentile per-packet one-way delay: 193.313 ms
Loss rate: 10.21%
-- Flow 2:
Average throughput: 645.50 Mbit/s
95th percentile per-packet one-way delay: 222.568 ms
Loss rate: 17.06%
-- Flow 3:
Average throughput: 555.36 Mbit/s
95th percentile per-packet one-way delay: 205.030 ms
Loss rate: 19.31%
Run 6: Report of FillP — Data Link

Throughput (Mb/s)

Time (s)

Flow 1 Ingress (mean 875.31 Mb/s)  Flow 1 Egress (mean 785.90 Mb/s)
Flow 2 Ingress (mean 778.18 Mb/s)  Flow 2 Egress (mean 645.50 Mb/s)
Flow 3 Ingress (mean 688.13 Mb/s)  Flow 3 Egress (mean 555.36 Mb/s)

Packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 193.31 ms)  Flow 2 (95th percentile 222.57 ms)  Flow 3 (95th percentile 205.03 ms)
Run 7: Statistics of FillP

Start at: 2018-03-07 07:58:22
End at: 2018-03-07 07:58:52

# Below is generated by plot.py at 2018-03-07 12:41:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1271.64 Mbit/s
95th percentile per-packet one-way delay: 311.803 ms
Loss rate: 14.05%
-- Flow 1:
Average throughput: 703.24 Mbit/s
95th percentile per-packet one-way delay: 308.202 ms
Loss rate: 10.43%
-- Flow 2:
Average throughput: 565.35 Mbit/s
95th percentile per-packet one-way delay: 322.020 ms
Loss rate: 17.85%
-- Flow 3:
Average throughput: 579.47 Mbit/s
95th percentile per-packet one-way delay: 185.289 ms
Loss rate: 18.70%
Run 7: Report of FillP — Data Link
Run 8: Statistics of FillP

Start at: 2018-03-07 08:16:02
End at: 2018-03-07 08:16:32

# Below is generated by plot.py at 2018-03-07 12:42:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1359.35 Mbit/s
95th percentile per-packet one-way delay: 277.013 ms
Loss rate: 12.73%
-- Flow 1:
Average throughput: 704.10 Mbit/s
95th percentile per-packet one-way delay: 168.731 ms
Loss rate: 13.25%
-- Flow 2:
Average throughput: 716.49 Mbit/s
95th percentile per-packet one-way delay: 294.656 ms
Loss rate: 11.12%
-- Flow 3:
Average throughput: 539.88 Mbit/s
95th percentile per-packet one-way delay: 317.450 ms
Loss rate: 14.82%
Run 8: Report of FillP — Data Link

[Graph showing throughput and per-packet size over time for different flows]

Flow 1 Ingress (mean 811.96 Mb/s) — Flow 1 Egress (mean 704.10 Mb/s)
Flow 2 Ingress (mean 806.13 Mb/s) — Flow 2 Egress (mean 716.49 Mb/s)
Flow 3 Ingress (mean 633.63 Mb/s) — Flow 3 Egress (mean 539.88 Mb/s)
Run 9: Statistics of FillP

Start at: 2018-03-07 08:33:31
End at: 2018-03-07 08:34:01

# Below is generated by plot.py at 2018-03-07 13:03:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1392.85 Mbit/s
95th percentile per-packet one-way delay: 170.442 ms
Loss rate: 14.07%
-- Flow 1:
Average throughput: 709.47 Mbit/s
95th percentile per-packet one-way delay: 160.309 ms
Loss rate: 14.14%
-- Flow 2:
Average throughput: 746.66 Mbit/s
95th percentile per-packet one-way delay: 161.462 ms
Loss rate: 11.92%
-- Flow 3:
Average throughput: 561.70 Mbit/s
95th percentile per-packet one-way delay: 194.976 ms
Loss rate: 19.06%
Run 9: Report of FillIP — Data Link

![Graph of Throughput (Mbps/s) over time with legend](image1)

![Graph of Per-packet one-way delay (ms) over time with legend](image2)

261
Run 10: Statistics of FillP

Start at: 2018-03-07 08:50:45
End at: 2018-03-07 08:51:15

# Below is generated by plot.py at 2018-03-07 13:03:10
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 1252.47 Mbit/s
  95th percentile per-packet one-way delay: 313.219 ms
  Loss rate: 15.85%
-- Flow 1:
  Average throughput: 682.35 Mbit/s
  95th percentile per-packet one-way delay: 176.897 ms
  Loss rate: 14.63%
-- Flow 2:
  Average throughput: 599.12 Mbit/s
  95th percentile per-packet one-way delay: 343.806 ms
  Loss rate: 16.59%
-- Flow 3:
  Average throughput: 518.66 Mbit/s
  95th percentile per-packet one-way delay: 353.702 ms
  Loss rate: 18.77%
Run 10: Report of FillP — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 799.27 Mbps)
- Flow 1 egress (mean 682.35 Mbps)
- Flow 2 ingress (mean 718.31 Mbps)
- Flow 2 egress (mean 599.12 Mbps)
- Flow 3 ingress (mean 638.36 Mbps)
- Flow 3 egress (mean 518.66 Mbps)

![Graph 2: Packet one way delay (ms)]

- Flow 1 (95th percentile 176.90 ms)
- Flow 2 (95th percentile 343.81 ms)
- Flow 3 (95th percentile 353.70 ms)
Run 1: Statistics of Indigo-1-32

Start at: 2018-03-07 06:08:07
End at: 2018-03-07 06:08:37

# Below is generated by plot.py at 2018-03-07 13:03:10
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 380.42 Mbit/s
  95th percentile per-packet one-way delay: 58.718 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 195.19 Mbit/s
  95th percentile per-packet one-way delay: 53.696 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 193.70 Mbit/s
  95th percentile per-packet one-way delay: 65.322 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 175.88 Mbit/s
  95th percentile per-packet one-way delay: 59.888 ms
  Loss rate: 0.00%
Run 1: Report of Indigo-1-32 — Data Link

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

- Flow 1 ingress (mean 195.21 Mbit/s)
- Flow 1 egress (mean 195.19 Mbit/s)
- Flow 2 ingress (mean 193.73 Mbit/s)
- Flow 2 egress (mean 193.70 Mbit/s)
- Flow 3 ingress (mean 175.77 Mbit/s)
- Flow 3 egress (mean 175.88 Mbit/s)
Run 2: Statistics of Indigo-1-32

Start at: 2018-03-07 06:25:30
End at: 2018-03-07 06:26:00

# Below is generated by plot.py at 2018-03-07 13:03:10
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 405.03 Mbit/s
  95th percentile per-packet one-way delay: 60.569 ms
  Loss rate: 0.01%
-- Flow 1:
  Average throughput: 214.09 Mbit/s
  95th percentile per-packet one-way delay: 62.625 ms
  Loss rate: 0.01%
-- Flow 2:
  Average throughput: 207.29 Mbit/s
  95th percentile per-packet one-way delay: 60.535 ms
  Loss rate: 0.02%
-- Flow 3:
  Average throughput: 166.22 Mbit/s
  95th percentile per-packet one-way delay: 54.360 ms
  Loss rate: 0.02%
Run 2: Report of Indigo-1-32 — Data Link
Run 3: Statistics of Indigo-1-32

Start at: 2018-03-07 06:42:53
End at: 2018-03-07 06:43:23

# Below is generated by plot.py at 2018-03-07 13:03:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 393.59 Mbit/s
95th percentile per-packet one-way delay: 58.806 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 216.77 Mbit/s
95th percentile per-packet one-way delay: 56.982 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 218.44 Mbit/s
95th percentile per-packet one-way delay: 62.153 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 100.51 Mbit/s
95th percentile per-packet one-way delay: 53.980 ms
Loss rate: 0.00%
Run 3: Report of Indigo-1-32 — Data Link

![Graph showing network performance metrics over time.](image-url)
Run 4: Statistics of Indigo-1-32

Start at: 2018-03-07 07:00:19
End at: 2018-03-07 07:00:49

# Below is generated by plot.py at 2018-03-07 13:03:10
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 386.02 Mbit/s
  95th percentile per-packet one-way delay: 57.279 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 208.51 Mbit/s
  95th percentile per-packet one-way delay: 56.542 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 188.01 Mbit/s
  95th percentile per-packet one-way delay: 58.324 ms
  Loss rate: 0.01%
-- Flow 3:
  Average throughput: 162.71 Mbit/s
  95th percentile per-packet one-way delay: 56.351 ms
  Loss rate: 0.00%
Run 4: Report of Indigo-1-32 — Data Link

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

**Throughput (Mbps)**
- Flow 1 ingress (mean 208.49 Mbps)
- Flow 1 egress (mean 208.51 Mbps)
- Flow 2 ingress (mean 188.04 Mbps)
- Flow 2 egress (mean 188.01 Mbps)
- Flow 3 ingress (mean 162.71 Mbps)
- Flow 3 egress (mean 162.71 Mbps)

**Per-packet one-way delay (ms)**
- Flow 1 (95th percentile 56.54 ms)
- Flow 2 (95th percentile 58.32 ms)
- Flow 3 (95th percentile 56.35 ms)
Run 5: Statistics of Indigo-1-32

Start at: 2018-03-07 07:17:46
End at: 2018-03-07 07:18:16

# Below is generated by plot.py at 2018-03-07 13:03:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 396.84 Mbit/s
95th percentile per-packet one-way delay: 64.790 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 211.18 Mbit/s
95th percentile per-packet one-way delay: 66.963 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 196.25 Mbit/s
95th percentile per-packet one-way delay: 60.633 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 173.94 Mbit/s
95th percentile per-packet one-way delay: 64.866 ms
Loss rate: 0.01%
Run 5: Report of Indigo-1-32 — Data Link

![Graph of Throughput vs Time](image1)

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 211.23 Mbps)
  - Flow 1 egress (mean 211.18 Mbps)
  - Flow 2 ingress (mean 196.25 Mbps)
  - Flow 2 egress (mean 196.25 Mbps)
  - Flow 3 ingress (mean 173.94 Mbps)
  - Flow 3 egress (mean 173.94 Mbps)

![Graph of Per-packet round-trip delay vs Time](image2)

- **Per-packet round-trip delay (ms):**
  - Flow 1 (95th percentile 66.96 ms)
  - Flow 2 (95th percentile 60.63 ms)
  - Flow 3 (95th percentile 64.87 ms)
Run 6: Statistics of Indigo-1-32

Start at: 2018-03-07 07:35:19
End at: 2018-03-07 07:35:49

# Below is generated by plot.py at 2018-03-07 13:03:10
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 389.15 Mbit/s
  95th percentile per-packet one-way delay: 57.792 ms
  Loss rate: 0.03%
-- Flow 1:
  Average throughput: 211.53 Mbit/s
  95th percentile per-packet one-way delay: 60.413 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 188.51 Mbit/s
  95th percentile per-packet one-way delay: 58.243 ms
  Loss rate: 0.10%
-- Flow 3:
  Average throughput: 162.25 Mbit/s
  95th percentile per-packet one-way delay: 52.974 ms
  Loss rate: 0.00%
Run 7: Statistics of Indigo-1-32

Start at: 2018-03-07 07:52:41
End at: 2018-03-07 07:53:11

# Below is generated by plot.py at 2018-03-07 13:03:10
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 411.19 Mbit/s
  95th percentile per-packet one-way delay: 67.615 ms
  Loss rate: 0.01%
-- Flow 1:
  Average throughput: 217.15 Mbit/s
  95th percentile per-packet one-way delay: 62.533 ms
  Loss rate: 0.01%
-- Flow 2:
  Average throughput: 212.58 Mbit/s
  95th percentile per-packet one-way delay: 74.496 ms
  Loss rate: 0.01%
-- Flow 3:
  Average throughput: 166.24 Mbit/s
  95th percentile per-packet one-way delay: 55.541 ms
  Loss rate: 0.03%
Run 8: Statistics of Indigo-1-32

Start at: 2018-03-07 08:10:23
End at: 2018-03-07 08:10:53

# Below is generated by plot.py at 2018-03-07 13:03:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 380.49 Mbit/s
95th percentile per-packet one-way delay: 61.603 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 203.38 Mbit/s
95th percentile per-packet one-way delay: 63.385 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 183.92 Mbit/s
95th percentile per-packet one-way delay: 61.399 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 171.57 Mbit/s
95th percentile per-packet one-way delay: 56.641 ms
Loss rate: 0.00%
Run 8: Report of Indigo-1-32 — Data Link

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

- Flow 1 ingress (mean 203.39 Mb/s)
- Flow 1 egress (mean 203.38 Mb/s)
- Flow 2 ingress (mean 183.91 Mb/s)
- Flow 2 egress (mean 183.92 Mb/s)
- Flow 3 ingress (mean 171.58 Mb/s)
- Flow 3 egress (mean 171.57 Mb/s)

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

- Flow 1 (95th percentile 63.38 ms)
- Flow 2 (95th percentile 61.40 ms)
- Flow 3 (95th percentile 56.64 ms)
Run 9: Statistics of Indigo-1-32

Start at: 2018-03-07 08:27:51
End at: 2018-03-07 08:28:21

# Below is generated by plot.py at 2018-03-07 13:03:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 375.62 Mbit/s
95th percentile per-packet one-way delay: 55.035 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 191.16 Mbit/s
95th percentile per-packet one-way delay: 54.395 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 196.13 Mbit/s
95th percentile per-packet one-way delay: 56.947 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 167.98 Mbit/s
95th percentile per-packet one-way delay: 53.095 ms
Loss rate: 0.01%
Run 9: Report of Indigo-1-32 — Data Link

![Graph showing throughput and per-packet one-way delay over time for different flows.]
Run 10: Statistics of Indigo-1-32

Start at: 2018-03-07 08:44:59
End at: 2018-03-07 08:45:29

# Below is generated by plot.py at 2018-03-07 13:03:10
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 389.84 Mbit/s
  95th percentile per-packet one-way delay: 60.066 ms
  Loss rate: 0.02%
-- Flow 1:
  Average throughput: 199.24 Mbit/s
  95th percentile per-packet one-way delay: 58.581 ms
  Loss rate: 0.02%
-- Flow 2:
  Average throughput: 204.37 Mbit/s
  95th percentile per-packet one-way delay: 66.557 ms
  Loss rate: 0.01%
-- Flow 3:
  Average throughput: 171.67 Mbit/s
  95th percentile per-packet one-way delay: 56.762 ms
  Loss rate: 0.04%
Run 10: Report of Indigo-1-32 — Data Link

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

**Throughput (Mbit/s)**
- Flow 1 ingress (mean 199.28 Mbit/s)
- Flow 1 egress (mean 199.24 Mbit/s)
- Flow 2 ingress (mean 204.40 Mbit/s)
- Flow 2 egress (mean 204.37 Mbit/s)
- Flow 3 ingress (mean 171.72 Mbit/s)
- Flow 3 egress (mean 171.67 Mbit/s)

**Per-packet one-way delay (ms)**
- Flow 1 (95th percentile 58.58 ms)
- Flow 2 (95th percentile 66.56 ms)
- Flow 3 (95th percentile 56.76 ms)
Run 1: Statistics of Vivace-latency

Start at: 2018-03-07 06:04:52
End at: 2018-03-07 06:05:22

# Below is generated by plot.py at 2018-03-07 13:03:10
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 486.66 Mbit/s
  95th percentile per-packet one-way delay: 156.136 ms
  Loss rate: 0.23%
-- Flow 1:
  Average throughput: 283.33 Mbit/s
  95th percentile per-packet one-way delay: 203.899 ms
  Loss rate: 0.39%
-- Flow 2:
  Average throughput: 230.52 Mbit/s
  95th percentile per-packet one-way delay: 66.490 ms
  Loss rate: 0.01%
-- Flow 3:
  Average throughput: 151.92 Mbit/s
  95th percentile per-packet one-way delay: 91.200 ms
  Loss rate: 0.00%
Run 1: Report of Vivace-latency — Data Link
Run 2: Statistics of Vivace-latency

Start at: 2018-03-07 06:22:22
End at: 2018-03-07 06:22:52

# Below is generated by plot.py at 2018-03-07 13:03:10
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 425.43 Mbit/s
  95th percentile per-packet one-way delay: 173.577 ms
  Loss rate: 0.05%
-- Flow 1:
  Average throughput: 249.44 Mbit/s
  95th percentile per-packet one-way delay: 172.341 ms
  Loss rate: 0.01%
-- Flow 2:
  Average throughput: 222.48 Mbit/s
  95th percentile per-packet one-way delay: 194.603 ms
  Loss rate: 0.14%
-- Flow 3:
  Average throughput: 85.31 Mbit/s
  95th percentile per-packet one-way delay: 51.475 ms
  Loss rate: 0.00%
Run 2: Report of Vivace-latency — Data Link

**Throughput (Mb/s)**

- **Flow 1 ingress** (mean 249.38 Mb/s)
- **Flow 1 egress** (mean 249.44 Mb/s)
- **Flow 2 ingress** (mean 222.79 Mb/s)
- **Flow 2 egress** (mean 222.48 Mb/s)
- **Flow 3 ingress** (mean 85.31 Mb/s)
- **Flow 3 egress** (mean 85.31 Mb/s)

**Round-trip one-way delay (ms)**

- **Flow 1** (95th percentile 172.34 ms)
- **Flow 2** (95th percentile 194.68 ms)
- **Flow 3** (95th percentile 51.48 ms)
Run 3: Statistics of Vivace-latency

Start at: 2018-03-07 06:39:45
End at: 2018-03-07 06:40:15

# Below is generated by plot.py at 2018-03-07 13:03:10
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 406.27 Mbit/s
  95th percentile per-packet one-way delay: 76.312 ms
  Loss rate: 0.01%
-- Flow 1:
  Average throughput: 246.29 Mbit/s
  95th percentile per-packet one-way delay: 79.228 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 220.84 Mbit/s
  95th percentile per-packet one-way delay: 69.020 ms
  Loss rate: 0.01%
-- Flow 3:
  Average throughput: 40.15 Mbit/s
  95th percentile per-packet one-way delay: 53.884 ms
  Loss rate: 0.03%
Run 3: Report of Vivace-latency — Data Link
Run 4: Statistics of Vivace-latency

Start at: 2018-03-07 06:57:03
End at: 2018-03-07 06:57:33

# Below is generated by plot.py at 2018-03-07 13:03:10
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 502.98 Mbit/s
  95th percentile per-packet one-way delay: 163.944 ms
  Loss rate: 0.04%
-- Flow 1:
  Average throughput: 295.88 Mbit/s
  95th percentile per-packet one-way delay: 178.020 ms
  Loss rate: 0.07%
-- Flow 2:
  Average throughput: 233.18 Mbit/s
  95th percentile per-packet one-way delay: 139.366 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 158.53 Mbit/s
  95th percentile per-packet one-way delay: 57.525 ms
  Loss rate: 0.03%
Run 5: Statistics of Vivace-latency

Start at: 2018-03-07 07:14:31  
End at: 2018-03-07 07:15:01  

# Below is generated by plot.py at 2018-03-07 13:03:10  
# Datalink statistics  
-- Total of 3 flows:  
  Average throughput: 471.11 Mbit/s  
  95th percentile per-packet one-way delay: 155.624 ms  
  Loss rate: 0.10%  
-- Flow 1:  
  Average throughput: 281.38 Mbit/s  
  95th percentile per-packet one-way delay: 132.833 ms  
  Loss rate: 0.00%  
-- Flow 2:  
  Average throughput: 252.63 Mbit/s  
  95th percentile per-packet one-way delay: 177.757 ms  
  Loss rate: 0.28%  
-- Flow 3:  
  Average throughput: 66.24 Mbit/s  
  95th percentile per-packet one-way delay: 51.326 ms  
  Loss rate: 0.00%
Run 5: Report of Vivace-latency — Data Link

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

- **Flow 1 ingress** (mean 281.38 Mbps)
- **Flow 1 egress** (mean 281.38 Mbps)
- **Flow 2 ingress** (mean 255.30 Mbps)
- **Flow 2 egress** (mean 252.63 Mbps)
- **Flow 3 ingress** (mean 66.24 Mbps)
- **Flow 3 egress** (mean 66.24 Mbps)
Run 6: Statistics of Vivace-latency

Start at: 2018-03-07 07:32:04
End at: 2018-03-07 07:32:34

# Below is generated by plot.py at 2018-03-07 13:03:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 487.45 Mbit/s
95th percentile per-packet one-way delay: 158.158 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 273.26 Mbit/s
95th percentile per-packet one-way delay: 191.256 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 241.09 Mbit/s
95th percentile per-packet one-way delay: 92.265 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 163.85 Mbit/s
95th percentile per-packet one-way delay: 88.307 ms
Loss rate: 0.00%
Run 7: Statistics of Vivace-latency

Start at: 2018-03-07 07:49:31
End at: 2018-03-07 07:50:01

# Below is generated by plot.py at 2018-03-07 13:04:01
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 439.72 Mbit/s
  95th percentile per-packet one-way delay: 147.768 ms
  Loss rate: 0.00%
  -- Flow 1:
  Average throughput: 240.24 Mbit/s
  95th percentile per-packet one-way delay: 68.883 ms
  Loss rate: 0.00%
  -- Flow 2:
  Average throughput: 256.01 Mbit/s
  95th percentile per-packet one-way delay: 192.240 ms
  Loss rate: 0.01%
  -- Flow 3:
  Average throughput: 89.18 Mbit/s
  95th percentile per-packet one-way delay: 54.342 ms
  Loss rate: 0.01%
Run 7: Report of Vivace-latency — Data Link
Run 8: Statistics of Vivace-latency

Start at: 2018-03-07 08:07:09
End at: 2018-03-07 08:07:39

# Below is generated by plot.py at 2018-03-07 13:04:40
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 477.73 Mbit/s
  95th percentile per-packet one-way delay: 73.474 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 281.15 Mbit/s
  95th percentile per-packet one-way delay: 71.749 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 218.60 Mbit/s
  95th percentile per-packet one-way delay: 80.598 ms
  Loss rate: 0.01%
-- Flow 3:
  Average throughput: 155.83 Mbit/s
  95th percentile per-packet one-way delay: 81.221 ms
  Loss rate: 0.00%
Run 8: Report of Vivace-latency — Data Link

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

- Flow 1 ingress (mean 281.15 Mbit/s)
- Flow 1 egress (mean 281.15 Mbit/s)
- Flow 2 ingress (mean 218.58 Mbit/s)
- Flow 2 egress (mean 218.06 Mbit/s)
- Flow 3 ingress (mean 155.83 Mbit/s)
- Flow 3 egress (mean 155.83 Mbit/s)

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

- Flow 1 (95th percentile 71.75 ms)
- Flow 2 (95th percentile 80.60 ms)
- Flow 3 (95th percentile 81.22 ms)
Run 9: Statistics of Vivace-latency

Start at: 2018-03-07 08:24:43
End at: 2018-03-07 08:25:13

# Below is generated by plot.py at 2018-03-07 13:04:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 405.74 Mbit/s
95th percentile per-packet one-way delay: 89.243 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 249.03 Mbit/s
95th percentile per-packet one-way delay: 98.845 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 144.49 Mbit/s
95th percentile per-packet one-way delay: 85.800 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 184.54 Mbit/s
95th percentile per-packet one-way delay: 78.220 ms
Loss rate: 1.20%
Run 9: Report of Vivace-latency — Data Link

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

Flow 1 ingress (mean 250.59 Mbit/s)
Flow 1 egress (mean 249.03 Mbit/s)
Flow 2 ingress (mean 144.47 Mbit/s)
Flow 2 egress (mean 144.49 Mbit/s)
Flow 3 ingress (mean 186.81 Mbit/s)
Flow 3 egress (mean 184.54 Mbit/s)

Flow 1 (95th percentile 98.84 ms)
Flow 2 (95th percentile 85.80 ms)
Flow 3 (95th percentile 78.22 ms)
Run 10: Statistics of Vivace-latency

Start at: 2018-03-07 08:41:53
End at: 2018-03-07 08:42:23

# Below is generated by plot.py at 2018-03-07 13:05:30
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 364.86 Mbit/s
  95th percentile per-packet one-way delay: 61.326 ms
  Loss rate: 0.02%
-- Flow 1:
  Average throughput: 178.55 Mbit/s
  95th percentile per-packet one-way delay: 67.630 ms
  Loss rate: 0.04%
-- Flow 2:
  Average throughput: 236.82 Mbit/s
  95th percentile per-packet one-way delay: 57.917 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 87.76 Mbit/s
  95th percentile per-packet one-way delay: 51.796 ms
  Loss rate: 0.00%
Run 10: Report of Vivace-latency — Data Link

**Throughput Chart**
- Flow 1 ingress (mean 178.63 Mbit/s)
- Flow 1 egress (mean 178.55 Mbit/s)
- Flow 2 ingress (mean 236.82 Mbit/s)
- Flow 2 egress (mean 236.82 Mbit/s)
- Flow 3 ingress (mean 87.76 Mbit/s)
- Flow 3 egress (mean 87.76 Mbit/s)

**Per-packet one-way delay Chart**
- Flow 1 (95th percentile 67.63 ms)
- Flow 2 (95th percentile 57.92 ms)
- Flow 3 (95th percentile 51.80 ms)
Run 1: Statistics of Vivace-loss

Start at: 2018-03-07 06:09:52
End at: 2018-03-07 06:10:22

# Below is generated by plot.py at 2018-03-07 13:08:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 509.10 Mbit/s
95th percentile per-packet one-way delay: 248.683 ms
Loss rate: 4.16%
-- Flow 1:
Average throughput: 265.19 Mbit/s
95th percentile per-packet one-way delay: 244.467 ms
Loss rate: 4.57%
-- Flow 2:
Average throughput: 278.01 Mbit/s
95th percentile per-packet one-way delay: 254.137 ms
Loss rate: 4.21%
-- Flow 3:
Average throughput: 179.94 Mbit/s
95th percentile per-packet one-way delay: 64.034 ms
Loss rate: 2.15%
Run 1: Report of Vivace-loss — Data Link
Run 2: Statistics of Vivace-loss

Start at: 2018-03-07 06:27:18
End at: 2018-03-07 06:27:48

# Below is generated by plot.py at 2018-03-07 13:09:13
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 525.64 Mbit/s
  95th percentile per-packet one-way delay: 245.191 ms
  Loss rate: 3.40%
-- Flow 1:
  Average throughput: 317.59 Mbit/s
  95th percentile per-packet one-way delay: 181.193 ms
  Loss rate: 0.84%
-- Flow 2:
  Average throughput: 225.54 Mbit/s
  95th percentile per-packet one-way delay: 273.737 ms
  Loss rate: 8.80%
-- Flow 3:
  Average throughput: 176.73 Mbit/s
  95th percentile per-packet one-way delay: 253.128 ms
  Loss rate: 2.25%
Run 2: Report of Vivace-loss — Data Link

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

Flow 1 ingress (mean 320.27 Mbit/s), Flow 1 egress (mean 317.59 Mbit/s), Flow 2 ingress (mean 247.33 Mbit/s), Flow 2 egress (mean 225.54 Mbit/s), Flow 3 ingress (mean 190.81 Mbit/s), Flow 3 egress (mean 176.73 Mbit/s)

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

Flow 1 (95th percentile 181.19 ms), Flow 2 (95th percentile 273.74 ms), Flow 3 (95th percentile 253.13 ms)
Run 3: Statistics of Vivace-loss

Start at: 2018-03-07 06:44:37
End at: 2018-03-07 06:45:07

# Below is generated by plot.py at 2018-03-07 13:11:14
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 571.51 Mbit/s
  95th percentile per-packet one-way delay: 260.456 ms
  Loss rate: 4.19%
-- Flow 1:
  Average throughput: 335.71 Mbit/s
  95th percentile per-packet one-way delay: 254.614 ms
  Loss rate: 3.02%
-- Flow 2:
  Average throughput: 238.80 Mbit/s
  95th percentile per-packet one-way delay: 207.881 ms
  Loss rate: 2.31%
-- Flow 3:
  Average throughput: 234.31 Mbit/s
  95th percentile per-packet one-way delay: 273.531 ms
  Loss rate: 12.25%
Run 3: Report of Vivace-loss — Data Link

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

Start at: 2018-03-07 07:02:05
End at: 2018-03-07 07:02:35

# Below is generated by plot.py at 2018-03-07 13:11:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 509.99 Mbit/s
95th percentile per-packet one-way delay: 291.831 ms
Loss rate: 7.69%
-- Flow 1:
Average throughput: 254.53 Mbit/s
95th percentile per-packet one-way delay: 285.419 ms
Loss rate: 8.01%
-- Flow 2:
Average throughput: 292.24 Mbit/s
95th percentile per-packet one-way delay: 304.258 ms
Loss rate: 9.46%
-- Flow 3:
Average throughput: 186.23 Mbit/s
95th percentile per-packet one-way delay: 207.932 ms
Loss rate: 0.06%
Run 4: Report of Vivace-loss — Data Link

Throughput (Mbit/s)

Time (s)

- Flow 1 ingress (mean 276.70 Mbit/s)
- Flow 1 egress (mean 254.53 Mbit/s)
- Flow 2 ingress (mean 322.73 Mbit/s)
- Flow 2 egress (mean 292.24 Mbit/s)
- Flow 3 ingress (mean 186.28 Mbit/s)
- Flow 3 egress (mean 186.23 Mbit/s)

End-to-end delay (ms)

Time (s)

- Flow 1 (95th percentile 285.42 ms)
- Flow 2 (95th percentile 304.26 ms)
- Flow 3 (95th percentile 207.93 ms)
Run 5: Statistics of Vivace-loss

Start at: 2018-03-07 07:19:31
End at: 2018-03-07 07:20:01

# Below is generated by plot.py at 2018-03-07 13:13:38
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 560.84 Mbit/s
  95th percentile per-packet one-way delay: 286.616 ms
  Loss rate: 7.37%
-- Flow 1:
  Average throughput: 335.68 Mbit/s
  95th percentile per-packet one-way delay: 255.940 ms
  Loss rate: 4.64%
-- Flow 2:
  Average throughput: 305.60 Mbit/s
  95th percentile per-packet one-way delay: 297.115 ms
  Loss rate: 8.43%
-- Flow 3:
  Average throughput: 67.89 Mbit/s
  95th percentile per-packet one-way delay: 339.812 ms
  Loss rate: 30.10%
Run 5: Report of Vivace-loss — Data Link
Run 6: Statistics of Vivace-loss

Start at: 2018-03-07 07:37:02
End at: 2018-03-07 07:37:32

# Below is generated by plot.py at 2018-03-07 13:13:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 505.67 Mbit/s
95th percentile per-packet one-way delay: 239.350 ms
Loss rate: 4.94%
-- Flow 1:
Average throughput: 312.42 Mbit/s
95th percentile per-packet one-way delay: 239.307 ms
Loss rate: 4.04%
-- Flow 2:
Average throughput: 233.32 Mbit/s
95th percentile per-packet one-way delay: 191.163 ms
Loss rate: 4.84%
-- Flow 3:
Average throughput: 115.87 Mbit/s
95th percentile per-packet one-way delay: 283.753 ms
Loss rate: 12.03%
Run 6: Report of Vivace-loss — Data Link

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

- **Flow 1: Ingress** (mean 325.55 Mbit/s) vs **Flow 1: Egress** (mean 312.42 Mbit/s)
- **Flow 2: Ingress** (mean 245.20 Mbit/s) vs **Flow 2: Egress** (mean 233.32 Mbit/s)
- **Flow 3: Ingress** (mean 131.72 Mbit/s) vs **Flow 3: Egress** (mean 115.87 Mbit/s)

- **Packet delay**
  - **Flow 1 (95th percentile 239.31 ms)**
  - **Flow 2 (95th percentile 191.16 ms)**
  - **Flow 3 (95th percentile 283.75 ms)**
Run 7: Statistics of Vivace-loss

Start at: 2018-03-07 07:54:26
End at: 2018-03-07 07:54:56

# Below is generated by plot.py at 2018-03-07 13:13:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 530.67 Mbit/s
95th percentile per-packet one-way delay: 255.952 ms
Loss rate: 4.54%
-- Flow 1:
Average throughput: 246.73 Mbit/s
95th percentile per-packet one-way delay: 240.932 ms
Loss rate: 4.29%
-- Flow 2:
Average throughput: 306.57 Mbit/s
95th percentile per-packet one-way delay: 226.983 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 243.55 Mbit/s
95th percentile per-packet one-way delay: 277.209 ms
Loss rate: 12.91%
Run 7: Report of Vivace-loss — Data Link

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

- **Throughput (Mb/s):**
  - Flow 1 ingress (mean 257.77 Mb/s)
  - Flow 1 egress (mean 246.73 Mb/s)
  - Flow 2 ingress (mean 310.02 Mb/s)
  - Flow 2 egress (mean 306.57 Mb/s)
  - Flow 3 ingress (mean 279.81 Mb/s)
  - Flow 3 egress (mean 243.55 Mb/s)

- **Packet one-way delay (ms):**
  - Flow 1 (95th percentile 240.93 ms)
  - Flow 2 (95th percentile 226.93 ms)
  - Flow 3 (95th percentile 277.21 ms)
Run 8: Statistics of Vivace-loss

Start at: 2018-03-07 08:12:08
End at: 2018-03-07 08:12:38

# Below is generated by plot.py at 2018-03-07 13:15:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 599.25 Mbit/s
95th percentile per-packet one-way delay: 275.336 ms
Loss rate: 6.68%
-- Flow 1:
Average throughput: 334.42 Mbit/s
95th percentile per-packet one-way delay: 252.714 ms
Loss rate: 5.11%
-- Flow 2:
Average throughput: 305.93 Mbit/s
95th percentile per-packet one-way delay: 293.965 ms
Loss rate: 8.91%
-- Flow 3:
Average throughput: 186.85 Mbit/s
95th percentile per-packet one-way delay: 238.925 ms
Loss rate: 7.57%
Run 8: Report of Vivace-loss — Data Link

![Throughput and Delay Graphs](image)

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 352.40 Mbps)
  - Flow 1 egress (mean 334.42 Mbps)
  - Flow 2 ingress (mean 335.83 Mbps)
  - Flow 2 egress (mean 305.93 Mbps)
  - Flow 3 ingress (mean 202.10 Mbps)
  - Flow 3 egress (mean 186.85 Mbps)

- **Per-packet one-way delay (ms):**
  - Flow 1 (95th percentile 252.71 ms)
  - Flow 2 (95th percentile 293.96 ms)
  - Flow 3 (95th percentile 238.93 ms)
Run 9: Statistics of Vivace-loss

Start at: 2018-03-07 08:29:34
End at: 2018-03-07 08:30:04

# Below is generated by plot.py at 2018-03-07 13:17:56
# Datalink statistics
-- Total of 3 flows:
   Average throughput: 557.20 Mbit/s
   95th percentile per-packet one-way delay: 229.511 ms
   Loss rate: 3.23%
-- Flow 1:
   Average throughput: 264.12 Mbit/s
   95th percentile per-packet one-way delay: 223.468 ms
   Loss rate: 1.75%
-- Flow 2:
   Average throughput: 347.35 Mbit/s
   95th percentile per-packet one-way delay: 239.624 ms
   Loss rate: 4.89%
-- Flow 3:
   Average throughput: 188.77 Mbit/s
   95th percentile per-packet one-way delay: 222.061 ms
   Loss rate: 3.20%
Run 9: Report of Vivace-loss — Data Link

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

For detailed analysis, please refer to the attached report.
Run 10: Statistics of Vivace-loss

Start at: 2018-03-07 08:46:43
End at: 2018-03-07 08:47:13

# Below is generated by plot.py at 2018-03-07 13:19:48
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 594.17 Mbit/s
  95th percentile per-packet one-way delay: 255.417 ms
  Loss rate: 5.06%
-- Flow 1:
  Average throughput: 345.20 Mbit/s
  95th percentile per-packet one-way delay: 230.249 ms
  Loss rate: 3.15%
-- Flow 2:
  Average throughput: 264.87 Mbit/s
  95th percentile per-packet one-way delay: 244.315 ms
  Loss rate: 3.17%
-- Flow 3:
  Average throughput: 221.64 Mbit/s
  95th percentile per-packet one-way delay: 284.432 ms
  Loss rate: 16.75%
Run 10: Report of Vivace-loss — Data Link

---

**Throughput (Mbps)**

- Flow 1 ingress (mean 356.44 Mbps)
- Flow 1 egress (mean 345.29 Mbps)
- Flow 2 ingress (mean 273.60 Mbps)
- Flow 2 egress (mean 264.87 Mbps)
- Flow 3 ingress (mean 266.22 Mbps)
- Flow 3 egress (mean 221.64 Mbps)

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

- Flow 1 (95th percentile 230.25 ms)
- Flow 2 (95th percentile 244.31 ms)
- Flow 3 (95th percentile 284.43 ms)
Run 1: Statistics of Vivace-LTE

Start at: 2018-03-07 06:19:23
End at: 2018-03-07 06:19:53

# Below is generated by plot.py at 2018-03-07 13:20:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 546.30 Mbit/s
95th percentile per-packet one-way delay: 203.174 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 282.33 Mbit/s
95th percentile per-packet one-way delay: 163.730 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 317.28 Mbit/s
95th percentile per-packet one-way delay: 220.950 ms
Loss rate: 1.73%
-- Flow 3:
Average throughput: 161.45 Mbit/s
95th percentile per-packet one-way delay: 133.454 ms
Loss rate: 0.02%
Run 1: Report of Vivace-LTE — Data Link

![Graph showing throughput and per-packet one-way delay](image-url)
Run 2: Statistics of Vivace-LTE

Start at: 2018-03-07 06:36:56
End at: 2018-03-07 06:37:26

# Below is generated by plot.py at 2018-03-07 13:20:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 415.38 Mbit/s
95th percentile per-packet one-way delay: 134.106 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 209.87 Mbit/s
95th percentile per-packet one-way delay: 204.227 ms
Loss rate: 1.52%
-- Flow 2:
Average throughput: 224.46 Mbit/s
95th percentile per-packet one-way delay: 71.749 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 171.18 Mbit/s
95th percentile per-packet one-way delay: 80.109 ms
Loss rate: 0.00%
Run 2: Report of Vivace-LTE — Data Link

---

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

- **Flow 1 ingress** (mean 213.14 Mbps)
- **Flow 1 egress** (mean 209.87 Mbps)
- **Flow 2 ingress** (mean 224.43 Mbps)
- **Flow 2 egress** (mean 224.46 Mbps)
- **Flow 3 ingress** (mean 171.17 Mbps)
- **Flow 3 egress** (mean 171.18 Mbps)

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

- **Flow 1** (95th percentile 204.23 ms)
- **Flow 2** (95th percentile 71.75 ms)
- **Flow 3** (95th percentile 80.11 ms)
Run 3: Statistics of Vivace-LTE

Start at: 2018-03-07 06:54:04
End at: 2018-03-07 06:54:34

# Below is generated by plot.py at 2018-03-07 13:22:24
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 544.66 Mbit/s
  95th percentile per-packet one-way delay: 180.668 ms
  Loss rate: 0.02%
-- Flow 1:
  Average throughput: 326.12 Mbit/s
  95th percentile per-packet one-way delay: 200.031 ms
  Loss rate: 0.03%
-- Flow 2:
  Average throughput: 246.18 Mbit/s
  95th percentile per-packet one-way delay: 75.354 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 166.73 Mbit/s
  95th percentile per-packet one-way delay: 109.346 ms
  Loss rate: 0.00%
Run 3: Report of Vivace-LTE — Data Link

---

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

- Flow 1 ingress (mean 326.22 Mbps)
- Flow 1 egress (mean 326.12 Mbps)
- Flow 2 ingress (mean 246.18 Mbps)
- Flow 2 egress (mean 246.18 Mbps)
- Flow 3 ingress (mean 166.71 Mbps)
- Flow 3 egress (mean 166.73 Mbps)

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

- Flow 1 (95th percentile 200.03 ms)
- Flow 2 (95th percentile 75.35 ms)
- Flow 3 (95th percentile 109.35 ms)
Run 4: Statistics of Vivace-LTE

Start at: 2018-03-07 07:11:35
End at: 2018-03-07 07:12:05

# Below is generated by plot.py at 2018-03-07 13:22:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 542.37 Mbit/s
95th percentile per-packet one-way delay: 257.344 ms
Loss rate: 1.70%
-- Flow 1:
Average throughput: 316.78 Mbit/s
95th percentile per-packet one-way delay: 205.406 ms
Loss rate: 1.31%
-- Flow 2:
Average throughput: 257.37 Mbit/s
95th percentile per-packet one-way delay: 263.851 ms
Loss rate: 2.94%
-- Flow 3:
Average throughput: 165.42 Mbit/s
95th percentile per-packet one-way delay: 96.498 ms
Loss rate: 0.00%
Run 4: Report of Vivace-LTE — Data Link
Run 5: Statistics of Vivace-LTE

Start at: 2018-03-07 07:29:01
End at: 2018-03-07 07:29:31

# Below is generated by plot.py at 2018-03-07 13:23:22
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 570.65 Mbit/s
  95th percentile per-packet one-way delay: 252.346 ms
  Loss rate: 2.21%
-- Flow 1:
  Average throughput: 286.75 Mbit/s
  95th percentile per-packet one-way delay: 235.859 ms
  Loss rate: 2.19%
-- Flow 2:
  Average throughput: 297.55 Mbit/s
  95th percentile per-packet one-way delay: 220.688 ms
  Loss rate: 1.01%
-- Flow 3:
  Average throughput: 263.06 Mbit/s
  95th percentile per-packet one-way delay: 289.806 ms
  Loss rate: 4.94%
Run 5: Report of Vivace-LTE — Data Link
Run 6: Statistics of Vivace-LTE

Start at: 2018-03-07 07:46:29
End at: 2018-03-07 07:46:59

# Below is generated by plot.py at 2018-03-07 13:25:15
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 576.38 Mbit/s
  95th percentile per-packet one-way delay: 270.939 ms
  Loss rate: 3.73%
-- Flow 1:
  Average throughput: 348.69 Mbit/s
  95th percentile per-packet one-way delay: 173.207 ms
  Loss rate: 0.59%
-- Flow 2:
  Average throughput: 257.38 Mbit/s
  95th percentile per-packet one-way delay: 281.475 ms
  Loss rate: 10.60%
-- Flow 3:
  Average throughput: 172.07 Mbit/s
  95th percentile per-packet one-way delay: 79.894 ms
  Loss rate: 0.00%
Run 6: Report of Vivace-LTE — Data Link

Graph 1: Throughput (Mbps)

Graph 2: End-to-end one-way delay (ms)

Legend:
- Flow 1 ingress (mean 350.73 Mbps)
- Flow 1 egress (mean 348.69 Mbps)
- Flow 2 ingress (mean 287.90 Mbps)
- Flow 2 egress (mean 257.38 Mbps)
- Flow 3 ingress (mean 172.00 Mbps)
- Flow 3 egress (mean 172.07 Mbps)

Legend:
- Flow 1 (95th percentile 173.21 ms)
- Flow 2 (95th percentile 281.48 ms)
- Flow 3 (95th percentile 79.89 ms)
Run 7: Statistics of Vivace-LTE

Start at: 2018-03-07 08:04:04
End at: 2018-03-07 08:04:34

# Below is generated by plot.py at 2018-03-07 13:26:20
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 619.56 Mbit/s
  95th percentile per-packet one-way delay: 255.561 ms
  Loss rate: 1.93%
-- Flow 1:
  Average throughput: 333.75 Mbit/s
  95th percentile per-packet one-way delay: 263.300 ms
  Loss rate: 2.38%
-- Flow 2:
  Average throughput: 350.26 Mbit/s
  95th percentile per-packet one-way delay: 238.566 ms
  Loss rate: 1.71%
-- Flow 3:
  Average throughput: 160.95 Mbit/s
  95th percentile per-packet one-way delay: 66.120 ms
  Loss rate: 0.00%
Run 7: Report of Vivace-LTE — Data Link
Run 8: Statistics of Vivace-LTE

Start at: 2018-03-07 08:21:48
End at: 2018-03-07 08:22:18

# Below is generated by plot.py at 2018-03-07 13:26:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 538.01 Mbit/s
95th percentile per-packet one-way delay: 229.212 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 321.21 Mbit/s
95th percentile per-packet one-way delay: 263.498 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 241.06 Mbit/s
95th percentile per-packet one-way delay: 128.424 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 171.78 Mbit/s
95th percentile per-packet one-way delay: 107.839 ms
Loss rate: 0.04%
Run 8: Report of Vivace-LTE — Data Link

Throughput (Mb/s)

Time (s)

- Flow 1 ingress (mean 323.42 Mb/s)
- Flow 1 egress (mean 321.21 Mb/s)
- Flow 2 ingress (mean 241.07 Mb/s)
- Flow 2 egress (mean 241.06 Mb/s)
- Flow 3 ingress (mean 171.77 Mb/s)
- Flow 3 egress (mean 171.78 Mb/s)

Per-packet one-way delay (ms)

Time (s)

- Flow 1 (95th percentile 263.50 ms)
- Flow 2 (95th percentile 128.42 ms)
- Flow 3 (95th percentile 107.84 ms)
Run 9: Statistics of Vivace-LTE

Start at: 2018-03-07 08:38:57  
End at: 2018-03-07 08:39:27

# Below is generated by plot.py at 2018-03-07 13:26:30  
# Datalink statistics
-- Total of 3 flows:
Average throughput: 550.90 Mbit/s  
95th percentile per-packet one-way delay: 214.969 ms  
Loss rate: 1.17%
-- Flow 1:
Average throughput: 328.52 Mbit/s  
95th percentile per-packet one-way delay: 217.401 ms  
Loss rate: 0.09%
-- Flow 2:
Average throughput: 246.63 Mbit/s  
95th percentile per-packet one-way delay: 211.136 ms  
Loss rate: 3.64%
-- Flow 3:
Average throughput: 179.54 Mbit/s  
95th percentile per-packet one-way delay: 85.357 ms  
Loss rate: 0.02%
Run 9: Report of Vivace-LTE — Data Link

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

- Flow 1 ingress (mean 328.44 Mbps) — Flow 1 egress (mean 328.52 Mbps)
- Flow 2 ingress (mean 235.67 Mbps) — Flow 2 egress (mean 246.63 Mbps)
- Flow 3 ingress (mean 179.81 Mbps) — Flow 3 egress (mean 179.54 Mbps)

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

- Flow 1 (95th percentile 217.40 ms)
- Flow 2 (95th percentile 211.14 ms)
- Flow 3 (95th percentile 85.36 ms)
Run 10: Statistics of Vivace-LTE

Start at: 2018-03-07 08:56:12
End at: 2018-03-07 08:56:42

# Below is generated by plot.py at 2018-03-07 13:26:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 535.06 Mbit/s
95th percentile per-packet one-way delay: 195.798 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 344.28 Mbit/s
95th percentile per-packet one-way delay: 204.006 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 203.26 Mbit/s
95th percentile per-packet one-way delay: 115.413 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 169.21 Mbit/s
95th percentile per-packet one-way delay: 98.636 ms
Loss rate: 0.00%
Run 10: Report of Vivace-LTE — Data Link

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