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).

NTP offsets were measured against nets.org.sg and have been applied to correct the timestamps in logs.

Git summary:
branch: master @ 70217998b3c9a7166a95460a70c0854d1326e100
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
M datagrump/sender.cc
third_party/fillp @ fb9c9ab842e5614ad52911a76fb9bd1c1b0dca86
third_party/genericCC @ 80b516c448f795fd6e9675f7177696c622f07da8
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0a9b
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38cd4f3af00ec9f90c77e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2af
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983d84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928ec4f10836681
M datagrump/sender.cc
third_party/libutp @ b3465b942e282f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861a659b9013db26744ccfc9f93
third_party/pcc @ 1afc9558fa0d66d18b623c091a5fe872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cfff2
third_party/scream @ c3370fd7bd17265a79aeb34e016ad2f3f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaebe3b267cdd681
third_party/sprout @ 6f2efe6e088d910669af023df3756ee2665089ce
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ a488197dd041ace68a42849b2540ad834825f42
test from AWS India 1 Ethernet to India Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)

95th percentile one-way delay (ms)
0
20
40
60
80
100

Average throughput (Mbit/s)

0
20
40
60
80
100

95th percentile one-way delay (ms)
-16
-8
0
8
16
32

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<thead>
<tr>
<th>scheme</th>
<th># runs</th>
<th>mean avg tput (Mbit/s)</th>
<th>mean 95th-%ile delay (ms)</th>
<th>mean loss rate (%)</th>
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<td>40.18</td>
<td>33.08</td>
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<td>28.40</td>
<td>25.03</td>
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<td>10</td>
<td>48.73</td>
<td>29.90</td>
<td>24.18</td>
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<td>Copa</td>
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<td>35.27</td>
<td>34.52</td>
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<td>47.39</td>
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<td>59.34</td>
<td>31.13</td>
<td>18.52</td>
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<td>Vivace-loss</td>
<td>10</td>
<td>55.49</td>
<td>30.81</td>
<td>25.05</td>
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<td>Vivace-LTE</td>
<td>10</td>
<td>58.57</td>
<td>29.52</td>
<td>23.05</td>
</tr>
</tbody>
</table>
Run 1: Statistics of TCP BBR

Start at: 2018-02-03 01:57:21
End at: 2018-02-03 01:57:51
Local clock offset: -3.844 ms
Remote clock offset: -19.326 ms

# Below is generated by plot.py at 2018-02-03 06:07:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.68 Mbit/s
95th percentile per-packet one-way delay: 28.490 ms
Loss rate: 2.14%
-- Flow 1:
Average throughput: 55.77 Mbit/s
95th percentile per-packet one-way delay: 27.436 ms
Loss rate: 1.75%
-- Flow 2:
Average throughput: 35.67 Mbit/s
95th percentile per-packet one-way delay: 28.973 ms
Loss rate: 2.48%
-- Flow 3:
Average throughput: 48.67 Mbit/s
95th percentile per-packet one-way delay: 29.456 ms
Loss rate: 2.96%
Run 1: Report of TCP BBR — Data Link
Run 2: Statistics of TCP BBR

Start at: 2018-02-03 02:19:19
End at: 2018-02-03 02:19:49
Local clock offset: 0.092 ms
Remote clock offset: -19.719 ms

# Below is generated by plot.py at 2018-02-03 06:07:46
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 95.14 Mbit/s
  95th percentile per-packet one-way delay: 24.717 ms
  Loss rate: 2.29%
-- Flow 1:
  Average throughput: 58.76 Mbit/s
  95th percentile per-packet one-way delay: 23.373 ms
  Loss rate: 2.54%
-- Flow 2:
  Average throughput: 40.00 Mbit/s
  95th percentile per-packet one-way delay: 26.817 ms
  Loss rate: 1.62%
-- Flow 3:
  Average throughput: 29.44 Mbit/s
  95th percentile per-packet one-way delay: 25.822 ms
  Loss rate: 2.62%
Run 2: Report of TCP BBR — Data Link

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

- **Flow 1 ingress (mean 60.30 Mbit/s)**
- **Flow 1 egress (mean 58.76 Mbit/s)**
- **Flow 2 ingress (mean 40.65 Mbit/s)**
- **Flow 2 egress (mean 60.00 Mbit/s)**
- **Flow 3 ingress (mean 30.13 Mbit/s)**
- **Flow 3 egress (mean 29.44 Mbit/s)**
Run 3: Statistics of TCP BBR

Start at: 2018-02-03 02:41:36
End at: 2018-02-03 02:42:06
Local clock offset: -3.359 ms
Remote clock offset: -19.814 ms

# Below is generated by plot.py at 2018-02-03 06:07:47
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 96.28 Mbit/s
  95th percentile per-packet one-way delay: 29.654 ms
  Loss rate: 2.12%
-- Flow 1:
  Average throughput: 59.33 Mbit/s
  95th percentile per-packet one-way delay: 28.137 ms
  Loss rate: 1.68%
-- Flow 2:
  Average throughput: 37.81 Mbit/s
  95th percentile per-packet one-way delay: 30.535 ms
  Loss rate: 2.56%
-- Flow 3:
  Average throughput: 35.54 Mbit/s
  95th percentile per-packet one-way delay: 30.671 ms
  Loss rate: 3.36%
Run 3: Report of TCP BBR — Data Link
Run 4: Statistics of TCP BBR

Start at: 2018-02-03 03:04:08
End at: 2018-02-03 03:04:38
Local clock offset: 0.941 ms
Remote clock offset: -21.682 ms

# Below is generated by plot.py at 2018-02-03 06:07:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.86 Mbit/s
95th percentile per-packet one-way delay: 21.324 ms
Loss rate: 2.55%
-- Flow 1:
Average throughput: 58.65 Mbit/s
95th percentile per-packet one-way delay: 19.808 ms
Loss rate: 1.99%
-- Flow 2:
Average throughput: 41.51 Mbit/s
95th percentile per-packet one-way delay: 22.251 ms
Loss rate: 3.29%
-- Flow 3:
Average throughput: 28.81 Mbit/s
95th percentile per-packet one-way delay: 22.731 ms
Loss rate: 3.78%
Run 4: Report of TCP BBR — Data Link

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

- Flow 1 ingress: mean 59.88 Mbit/s
- Flow 1 egress: mean 58.65 Mbit/s
- Flow 2 ingress: mean 42.99 Mbit/s
- Flow 2 egress: mean 41.51 Mbit/s
- Flow 3 ingress: mean 29.93 Mbit/s
- Flow 3 egress: mean 28.81 Mbit/s

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

- Flow 1 (95th percentile: 19.81 ms)
- Flow 2 (95th percentile: 22.25 ms)
- Flow 3 (95th percentile: 22.73 ms)
Run 5: Statistics of TCP BBR

Start at: 2018-02-03 03:26:50
End at: 2018-02-03 03:27:20
Local clock offset: 2.319 ms
Remote clock offset: -19.135 ms

# Below is generated by plot.py at 2018-02-03 06:07:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.88 Mbit/s
95th percentile per-packet one-way delay: 24.376 ms
Loss rate: 2.61%
-- Flow 1:
Average throughput: 55.82 Mbit/s
95th percentile per-packet one-way delay: 22.000 ms
Loss rate: 2.16%
-- Flow 2:
Average throughput: 38.27 Mbit/s
95th percentile per-packet one-way delay: 26.165 ms
Loss rate: 2.57%
-- Flow 3:
Average throughput: 43.92 Mbit/s
95th percentile per-packet one-way delay: 25.853 ms
Loss rate: 4.37%
Run 5: Report of TCP BBR — Data Link
Run 6: Statistics of TCP BBR

Start at: 2018-02-03 03:50:07
End at: 2018-02-03 03:50:37
Local clock offset: 0.986 ms
Remote clock offset: -21.144 ms

# Below is generated by plot.py at 2018-02-03 06:07:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.35 Mbit/s
95th percentile per-packet one-way delay: 21.451 ms
Loss rate: 3.40%
-- Flow 1:
Average throughput: 58.07 Mbit/s
95th percentile per-packet one-way delay: 20.371 ms
Loss rate: 3.02%
-- Flow 2:
Average throughput: 42.14 Mbit/s
95th percentile per-packet one-way delay: 22.195 ms
Loss rate: 3.68%
-- Flow 3:
Average throughput: 27.83 Mbit/s
95th percentile per-packet one-way delay: 22.608 ms
Loss rate: 4.89%
Run 6: Report of TCP BBR — Data Link

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

- **Flow 1**: Ingress (mean 59.94 Mbit/s) and Egress (mean 58.07 Mbit/s)
- **Flow 2**: Ingress (mean 43.83 Mbit/s) and Egress (mean 42.14 Mbit/s)
- **Flow 3**: Ingress (mean 29.25 Mbit/s) and Egress (mean 27.83 Mbit/s)
Run 7: Statistics of TCP BBR

Start at: 2018-02-03 04:12:57
End at: 2018-02-03 04:13:27
Local clock offset: -1.006 ms
Remote clock offset: -19.49 ms

# Below is generated by plot.py at 2018-02-03 06:07:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.56 Mbit/s
95th percentile per-packet one-way delay: 27.208 ms
Loss rate: 2.30%
-- Flow 1:
Average throughput: 64.24 Mbit/s
95th percentile per-packet one-way delay: 26.414 ms
Loss rate: 2.40%
-- Flow 2:
Average throughput: 31.00 Mbit/s
95th percentile per-packet one-way delay: 28.229 ms
Loss rate: 2.49%
-- Flow 3:
Average throughput: 32.29 Mbit/s
95th percentile per-packet one-way delay: 30.192 ms
Loss rate: 1.34%
Run 7: Report of TCP BBR — Data Link

- Throughput (Mbps)
  - Flow 1 ingress (mean 65.88 Mbps)
  - Flow 1 egress (mean 64.24 Mbps)
  - Flow 2 ingress (mean 31.82 Mbps)
  - Flow 2 egress (mean 31.00 Mbps)
  - Flow 3 ingress (mean 32.77 Mbps)
  - Flow 3 egress (mean 32.29 Mbps)

- Per packet one way delay (ms)
  - Flow 1 (95th percentile 26.41 ms)
  - Flow 2 (95th percentile 28.23 ms)
  - Flow 3 (95th percentile 30.19 ms)
Run 8: Statistics of TCP BBR

Start at: 2018-02-03 04:35:05
End at: 2018-02-03 04:35:35
Local clock offset: 0.662 ms
Remote clock offset: -19.317 ms

# Below is generated by plot.py at 2018-02-03 06:07:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.25 Mbit/s
95th percentile per-packet one-way delay: 32.363 ms
Loss rate: 2.66%
-- Flow 1:
Average throughput: 56.99 Mbit/s
95th percentile per-packet one-way delay: 29.216 ms
Loss rate: 1.80%
-- Flow 2:
Average throughput: 37.13 Mbit/s
95th percentile per-packet one-way delay: 33.177 ms
Loss rate: 3.82%
-- Flow 3:
Average throughput: 43.82 Mbit/s
95th percentile per-packet one-way delay: 34.459 ms
Loss rate: 4.02%
Run 9: Statistics of TCP BBR

Start at: 2018-02-03 04:57:31
End at: 2018-02-03 04:58:01
Local clock offset: 2.658 ms
Remote clock offset: -20.814 ms

# Below is generated by plot.py at 2018-02-03 06:09:02
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 95.25 Mbit/s
  95th percentile per-packet one-way delay: 24.965 ms
  Loss rate: 2.28%
-- Flow 1:
  Average throughput: 60.50 Mbit/s
  95th percentile per-packet one-way delay: 24.218 ms
  Loss rate: 1.95%
-- Flow 2:
  Average throughput: 37.28 Mbit/s
  95th percentile per-packet one-way delay: 25.365 ms
  Loss rate: 2.98%
-- Flow 3:
  Average throughput: 29.91 Mbit/s
  95th percentile per-packet one-way delay: 26.222 ms
  Loss rate: 2.58%
Run 9: Report of TCP BBR — Data Link

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

- Flow 1 ingress (mean 61.76 Mbit/s)
- Flow 1 egress (mean 60.50 Mbit/s)
- Flow 2 ingress (mean 38.47 Mbit/s)
- Flow 2 egress (mean 37.28 Mbit/s)
- Flow 3 ingress (mean 30.71 Mbit/s)
- Flow 3 egress (mean 29.91 Mbit/s)
Run 10: Statistics of TCP BBR

Start at: 2018-02-03 05:20:38  
End at: 2018-02-03 05:21:08  
Local clock offset: 0.723 ms  
Remote clock offset: -24.116 ms

# Below is generated by plot.py at 2018-02-03 06:09:04  
# Datalink statistics
-- Total of 3 flows:  
Average throughput: 96.12 Mbit/s  
95th percentile per-packet one-way delay: 28.764 ms  
Loss rate: 2.23%  
-- Flow 1:  
Average throughput: 53.00 Mbit/s  
95th percentile per-packet one-way delay: 27.101 ms  
Loss rate: 1.47%  
-- Flow 2:  
Average throughput: 41.09 Mbit/s  
95th percentile per-packet one-way delay: 29.087 ms  
Loss rate: 3.16%  
-- Flow 3:  
Average throughput: 47.33 Mbit/s  
95th percentile per-packet one-way delay: 30.143 ms  
Loss rate: 3.10%
Run 10: Report of TCP BBR — Data Link
Run 1: Statistics of TCP Cubic

Start at: 2018-02-03 01:48:45
End at: 2018-02-03 01:49:15
Local clock offset: -3.698 ms
Remote clock offset: -19.883 ms

# Below is generated by plot.py at 2018-02-03 06:09:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 65.67 Mbit/s
95th percentile per-packet one-way delay: 24.047 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 32.15 Mbit/s
95th percentile per-packet one-way delay: 23.356 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 37.36 Mbit/s
95th percentile per-packet one-way delay: 25.503 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 26.06 Mbit/s
95th percentile per-packet one-way delay: 10.754 ms
Loss rate: 0.10%
Run 1: Report of TCP Cubic — Data Link

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

- Flow 1 ingress (mean 32.23 Mbit/s)
- Flow 1 egress (mean 32.15 Mbit/s)
- Flow 2 ingress (mean 37.48 Mbit/s)
- Flow 2 egress (mean 37.36 Mbit/s)
- Flow 3 ingress (mean 26.09 Mbit/s)
- Flow 3 egress (mean 26.06 Mbit/s)

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

- Flow 1 (99th percentile 23.36 ms)
- Flow 2 (95th percentile 25.50 ms)
- Flow 3 (95th percentile 10.75 ms)
Run 2: Statistics of TCP Cubic

Start at: 2018-02-03 02:10:49
End at: 2018-02-03 02:11:19
Local clock offset: 0.25 ms
Remote clock offset: -22.097 ms

# Below is generated by plot.py at 2018-02-03 06:09:04
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 51.93 Mbit/s
  95th percentile per-packet one-way delay: 14.039 ms
  Loss rate: 0.48%
-- Flow 1:
  Average throughput: 28.01 Mbit/s
  95th percentile per-packet one-way delay: 15.277 ms
  Loss rate: 0.76%
-- Flow 2:
  Average throughput: 25.79 Mbit/s
  95th percentile per-packet one-way delay: 0.982 ms
  Loss rate: 0.12%
-- Flow 3:
  Average throughput: 20.36 Mbit/s
  95th percentile per-packet one-way delay: 17.167 ms
  Loss rate: 0.26%
Run 2: Report of TCP Cubic — Data Link
Run 3: Statistics of TCP Cubic

Start at: 2018-02-03 02:32:51
End at: 2018-02-03 02:33:21
Local clock offset: -1.987 ms
Remote clock offset: -19.486 ms

# Below is generated by plot.py at 2018-02-03 06:09:04
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 62.39 Mbit/s
  95th percentile per-packet one-way delay: 24.782 ms
  Loss rate: 0.65%
-- Flow 1:
  Average throughput: 30.36 Mbit/s
  95th percentile per-packet one-way delay: 22.753 ms
  Loss rate: 0.58%
-- Flow 2:
  Average throughput: 31.38 Mbit/s
  95th percentile per-packet one-way delay: 25.496 ms
  Loss rate: 0.56%
-- Flow 3:
  Average throughput: 33.54 Mbit/s
  95th percentile per-packet one-way delay: 28.157 ms
  Loss rate: 1.00%
Run 3: Report of TCP Cubic — Data Link

[Graphs showing throughput and per-packet one-way delay over time for different flows, each with different mean speeds and 95th percentile delays.]
Run 4: Statistics of TCP Cubic

Start at: 2018-02-03 02:55:20
End at: 2018-02-03 02:55:50
Local clock offset: 0.565 ms
Remote clock offset: -20.634 ms

# Below is generated by plot.py at 2018-02-03 06:09:04
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 66.89 Mbit/s
  95th percentile per-packet one-way delay: 20.865 ms
  Loss rate: 0.64%
-- Flow 1:
  Average throughput: 33.14 Mbit/s
  95th percentile per-packet one-way delay: 18.418 ms
  Loss rate: 0.56%
-- Flow 2:
  Average throughput: 29.79 Mbit/s
  95th percentile per-packet one-way delay: 21.195 ms
  Loss rate: 0.72%
-- Flow 3:
  Average throughput: 41.93 Mbit/s
  95th percentile per-packet one-way delay: 22.179 ms
  Loss rate: 0.70%
Run 4: Report of TCP Cubic — Data Link

![Graph showing throughput and per-packet one-way delay over time for different flows.](image-url)
Run 5: Statistics of TCP Cubic

Start at: 2018-02-03 03:17:50
End at: 2018-02-03 03:18:20
Local clock offset: -2.061 ms
Remote clock offset: -20.833 ms

# Below is generated by plot.py at 2018-02-03 06:09:04
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 59.76 Mbit/s
  95th percentile per-packet one-way delay: 22.897 ms
  Loss rate: 0.74%
-- Flow 1:
  Average throughput: 29.28 Mbit/s
  95th percentile per-packet one-way delay: 20.765 ms
  Loss rate: 0.57%
-- Flow 2:
  Average throughput: 28.57 Mbit/s
  95th percentile per-packet one-way delay: 24.181 ms
  Loss rate: 0.82%
-- Flow 3:
  Average throughput: 34.54 Mbit/s
  95th percentile per-packet one-way delay: 26.570 ms
  Loss rate: 1.02%
Run 5: Report of TCP Cubic — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 29.45 Mbps)
  - Flow 1 egress (mean 29.28 Mbps)
  - Flow 2 ingress (mean 28.83 Mbps)
  - Flow 2 egress (mean 28.57 Mbps)
  - Flow 3 ingress (mean 34.90 Mbps)
  - Flow 3 egress (mean 34.54 Mbps)

- **Packet delay (ms):**
  - Flow 1 (95th percentile 20.77 ms)
  - Flow 2 (95th percentile 24.18 ms)
  - Flow 3 (95th percentile 26.57 ms)
Run 6: Statistics of TCP Cubic

Start at: 2018-02-03 03:41:11
End at: 2018-02-03 03:41:41
Local clock offset: -0.677 ms
Remote clock offset: -19.966 ms

# Below is generated by plot.py at 2018-02-03 06:09:04
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 53.92 Mbit/s
  95th percentile per-packet one-way delay: 8.790 ms
  Loss rate: 0.33%
-- Flow 1:
  Average throughput: 30.44 Mbit/s
  95th percentile per-packet one-way delay: 18.358 ms
  Loss rate: 0.50%
-- Flow 2:
  Average throughput: 22.16 Mbit/s
  95th percentile per-packet one-way delay: -3.227 ms
  Loss rate: 0.11%
-- Flow 3:
  Average throughput: 26.31 Mbit/s
  95th percentile per-packet one-way delay: -0.539 ms
  Loss rate: 0.10%
Run 6: Report of TCP Cubic — Data Link

![Graph showing throughput and packet loss over time for different flows.](image-url)
Run 7: Statistics of TCP Cubic

Start at: 2018-02-03 04:04:13
End at: 2018-02-03 04:04:43
Local clock offset: 0.4 ms
Remote clock offset: -18.88 ms

# Below is generated by plot.py at 2018-02-03 06:09:22
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 64.46 Mbit/s
  95th percentile per-packet one-way delay: 20.934 ms
  Loss rate: 0.69%
-- Flow 1:
  Average throughput: 33.41 Mbit/s
  95th percentile per-packet one-way delay: 18.994 ms
  Loss rate: 0.52%
-- Flow 2:
  Average throughput: 30.56 Mbit/s
  95th percentile per-packet one-way delay: 21.347 ms
  Loss rate: 0.61%
-- Flow 3:
  Average throughput: 32.24 Mbit/s
  95th percentile per-packet one-way delay: 26.716 ms
  Loss rate: 1.33%
Run 7: Report of TCP Cubic — Data Link

![Graph showing throughput and round-trip time for different flows.]
Run 8: Statistics of TCP Cubic

Start at: 2018-02-03 04:26:37
End at: 2018-02-03 04:27:07
Local clock offset: 4.155 ms
Remote clock offset: -20.501 ms

# Below is generated by plot.py at 2018-02-03 06:09:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 63.67 Mbit/s
95th percentile per-packet one-way delay: 18.075 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 39.27 Mbit/s
95th percentile per-packet one-way delay: 17.975 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 19.20 Mbit/s
95th percentile per-packet one-way delay: 15.053 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 34.99 Mbit/s
95th percentile per-packet one-way delay: 21.718 ms
Loss rate: 1.09%
Run 8: Report of TCP Cubic — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 39.44 Mbps)
  - Flow 1 egress (mean 39.27 Mbps)
  - Flow 2 ingress (mean 19.26 Mbps)
  - Flow 2 egress (mean 19.20 Mbps)
  - Flow 3 ingress (mean 35.41 Mbps)
  - Flow 3 egress (mean 34.99 Mbps)

- **Per-packet one-way delay (ms):**
  - Flow 1 (95th percentile 17.98 ms)
  - Flow 2 (95th percentile 15.05 ms)
  - Flow 3 (95th percentile 21.72 ms)
Run 9: Statistics of TCP Cubic

Start at: 2018-02-03 04:48:40
End at: 2018-02-03 04:49:10
Local clock offset: 1.586 ms
Remote clock offset: -21.666 ms

# Below is generated by plot.py at 2018-02-03 06:09:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 63.89 Mbit/s
95th percentile per-packet one-way delay: 20.471 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 37.53 Mbit/s
95th percentile per-packet one-way delay: 18.936 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 29.61 Mbit/s
95th percentile per-packet one-way delay: 22.807 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 20.03 Mbit/s
95th percentile per-packet one-way delay: 28.701 ms
Loss rate: 2.01%
Run 9: Report of TCP Cubic — Data Link
Run 10: Statistics of TCP Cubic

Start at: 2018-02-03 05:11:53
End at: 2018-02-03 05:12:23
Local clock offset: -1.181 ms
Remote clock offset: -24.161 ms

# Below is generated by plot.py at 2018-02-03 06:09:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.62 Mbit/s
95th percentile per-packet one-way delay: 28.731 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 42.89 Mbit/s
95th percentile per-packet one-way delay: 27.136 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 34.24 Mbit/s
95th percentile per-packet one-way delay: 29.321 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 29.94 Mbit/s
95th percentile per-packet one-way delay: 31.454 ms
Loss rate: 0.25%
Run 10: Report of TCP Cubic — Data Link

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

Start at: 2018-02-03 01:58:38
End at: 2018-02-03 01:59:08
Local clock offset: -2.217 ms
Remote clock offset: -20.988 ms

# Below is generated by plot.py at 2018-02-03 06:09:50
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 76.02 Mbit/s
  95th percentile per-packet one-way delay: 18.063 ms
  Loss rate: 0.05%
-- Flow 1:
  Average throughput: 47.37 Mbit/s
  95th percentile per-packet one-way delay: 17.488 ms
  Loss rate: 0.04%
-- Flow 2:
  Average throughput: 27.54 Mbit/s
  95th percentile per-packet one-way delay: 18.858 ms
  Loss rate: 0.09%
-- Flow 3:
  Average throughput: 31.12 Mbit/s
  95th percentile per-packet one-way delay: 20.451 ms
  Loss rate: 0.05%
Run 1: Report of LEDBAT — Data Link
Run 2: Statistics of LEDBAT

Start at: 2018-02-03 02:20:34
End at: 2018-02-03 02:21:04
Local clock offset: -1.856 ms
Remote clock offset: -19.7 ms

# Below is generated by plot.py at 2018-02-03 06:09:50
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 72.12 Mbit/s
  95th percentile per-packet one-way delay: 19.173 ms
  Loss rate: 0.07%
-- Flow 1:
  Average throughput: 42.28 Mbit/s
  95th percentile per-packet one-way delay: 11.155 ms
  Loss rate: 0.05%
-- Flow 2:
  Average throughput: 33.60 Mbit/s
  95th percentile per-packet one-way delay: 21.036 ms
  Loss rate: 0.08%
-- Flow 3:
  Average throughput: 22.48 Mbit/s
  95th percentile per-packet one-way delay: 23.114 ms
  Loss rate: 0.14%
Run 2: Report of LEDBAT — Data Link

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

- Flow 1 ingress (mean 42.32 Mbit/s)
- Flow 1 egress (mean 42.28 Mbit/s)
- Flow 2 ingress (mean 33.65 Mbit/s)
- Flow 2 egress (mean 33.60 Mbit/s)
- Flow 3 ingress (mean 22.54 Mbit/s)
- Flow 3 egress (mean 22.48 Mbit/s)

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

- Flow 1 (99th percentile 11.15 ms)
- Flow 2 (99th percentile 21.04 ms)
- Flow 3 (99th percentile 23.11 ms)
Run 3: Statistics of LEDBAT

Start at: 2018-02-03 02:42:53
End at: 2018-02-03 02:43:23
Local clock offset: 0.459 ms
Remote clock offset: -21.455 ms

# Below is generated by plot.py at 2018-02-03 06:10:12
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 73.20 Mbit/s
  95th percentile per-packet one-way delay: 16.422 ms
  Loss rate: 0.06%
-- Flow 1:
  Average throughput: 40.91 Mbit/s
  95th percentile per-packet one-way delay: 15.838 ms
  Loss rate: 0.05%
-- Flow 2:
  Average throughput: 34.35 Mbit/s
  95th percentile per-packet one-way delay: 19.315 ms
  Loss rate: 0.05%
-- Flow 3:
  Average throughput: 28.36 Mbit/s
  95th percentile per-packet one-way delay: 5.509 ms
  Loss rate: 0.08%
Run 3: Report of LEDBAT — Data Link

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

- Flow 1 ingress (mean 40.94 Mbit/s)
- Flow 1 egress (mean 40.91 Mbit/s)
- Flow 2 ingress (mean 34.38 Mbit/s)
- Flow 2 egress (mean 34.35 Mbit/s)
- Flow 3 ingress (mean 26.39 Mbit/s)
- Flow 3 egress (mean 28.36 Mbit/s)
Run 4: Statistics of LEDBAT

Start at: 2018-02-03 03:05:27
End at: 2018-02-03 03:05:57
Local clock offset: 1.047 ms
Remote clock offset: -19.668 ms

# Below is generated by plot.py at 2018-02-03 06:10:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 57.75 Mbit/s
95th percentile per-packet one-way delay: 3.020 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 35.14 Mbit/s
95th percentile per-packet one-way delay: 1.247 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 23.69 Mbit/s
95th percentile per-packet one-way delay: 3.263 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 20.61 Mbit/s
95th percentile per-packet one-way delay: 5.919 ms
Loss rate: 0.18%
Run 4: Report of LEDBAT — Data Link
Run 5: Statistics of LEDBAT

Start at: 2018-02-03 03:28:16
End at: 2018-02-03 03:28:46
Local clock offset: -2.88 ms
Remote clock offset: -19.051 ms

# Below is generated by plot.py at 2018-02-03 06:10:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.20 Mbit/s
95th percentile per.packet one-way delay: 3.956 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 26.64 Mbit/s
95th percentile per.packet one-way delay: 2.523 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 22.01 Mbit/s
95th percentile per.packet one-way delay: 4.163 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 23.86 Mbit/s
95th percentile per.packet one-way delay: 6.675 ms
Loss rate: 0.24%
Run 5: Report of LEDBAT — Data Link
Run 6: Statistics of LEADBAT

Start at: 2018-02-03 03:51:28
End at: 2018-02-03 03:51:58
Local clock offset: -1.464 ms
Remote clock offset: -19.177 ms

# Below is generated by plot.py at 2018-02-03 06:10:22
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 60.82 Mbit/s
  95th percentile per-packet one-way delay: 12.702 ms
  Loss rate: 0.09%
-- Flow 1:
  Average throughput: 35.26 Mbit/s
  95th percentile per-packet one-way delay: 5.673 ms
  Loss rate: 0.07%
-- Flow 2:
  Average throughput: 25.10 Mbit/s
  95th percentile per-packet one-way delay: 15.380 ms
  Loss rate: 0.12%
-- Flow 3:
  Average throughput: 26.65 Mbit/s
  95th percentile per-packet one-way delay: 19.862 ms
  Loss rate: 0.09%
Run 6: Report of LEDBAT — Data Link
Run 7: Statistics of LEDBAT

Start at: 2018-02-03 04:14:18
End at: 2018-02-03 04:14:48
Local clock offset: 0.04 ms
Remote clock offset: -17.804 ms

# Below is generated by plot.py at 2018-02-03 06:10:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 58.41 Mbit/s
95th percentile per-packet one-way delay: 3.569 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 34.70 Mbit/s
95th percentile per-packet one-way delay: 2.156 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 26.11 Mbit/s
95th percentile per-packet one-way delay: 5.023 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 19.08 Mbit/s
95th percentile per-packet one-way delay: 5.031 ms
Loss rate: 0.22%
Run 7: Report of LEDBAT — Data Link
Run 8: Statistics of LEDBAT

Start at: 2018-02-03 04:36:20
End at: 2018-02-03 04:36:50
Local clock offset: 2.592 ms
Remote clock offset: -20.078 ms

# Below is generated by plot.py at 2018-02-03 06:10:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 68.56 Mbit/s
95th percentile per-packet one-way delay: 14.345 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 40.91 Mbit/s
95th percentile per-packet one-way delay: 11.851 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 28.20 Mbit/s
95th percentile per-packet one-way delay: 12.078 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 26.67 Mbit/s
95th percentile per-packet one-way delay: 22.126 ms
Loss rate: 0.08%
Run 8: Report of LEDBAT — Data Link

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

*Legend for throughput graphs:*
- Flow 1 ingress (mean 40.96 Mbit/s)
- Flow 1 egress (mean 40.91 Mbit/s)
- Flow 2 ingress (mean 28.26 Mbit/s)
- Flow 2 egress (mean 26.20 Mbit/s)
- Flow 3 ingress (mean 26.78 Mbit/s)
- Flow 3 egress (mean 26.67 Mbit/s)

*Legend for packet delay graph:*
- Flow 1 (95th percentile 11.85 ms)
- Flow 2 (95th percentile 12.08 ms)
- Flow 3 (95th percentile 22.13 ms)
Run 9: Statistics of LEDBAT

Start at: 2018-02-03 04:58:50
End at: 2018-02-03 04:59:20
Local clock offset: 2.085 ms
Remote clock offset: -20.745 ms

# Below is generated by plot.py at 2018-02-03 06:10:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.99 Mbit/s
95th percentile per-packet one-way delay: 5.527 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 42.74 Mbit/s
95th percentile per-packet one-way delay: 4.343 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 23.81 Mbit/s
95th percentile per-packet one-way delay: 6.097 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 25.30 Mbit/s
95th percentile per-packet one-way delay: 11.421 ms
Loss rate: 0.09%
Run 9: Report of LEDBAT — Data Link

![Graph showing throughput and per-packet one-way delay over time for different flows. The legend indicates the throughput and delay metrics for each flow.](image-url)
Run 10: Statistics of LEDBAT

Start at: 2018-02-03 05:21:50
End at: 2018-02-03 05:22:20
Local clock offset: 0.959 ms
Remote clock offset: -23.62 ms

# Below is generated by plot.py at 2018-02-03 06:10:55
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 76.36 Mbit/s
  95th percentile per-packet one-way delay: 25.788 ms
  Loss rate: 0.08%
-- Flow 1:
  Average throughput: 50.31 Mbit/s
  95th percentile per-packet one-way delay: 25.213 ms
  Loss rate: 0.07%
-- Flow 2:
  Average throughput: 29.60 Mbit/s
  95th percentile per-packet one-way delay: 28.156 ms
  Loss rate: 0.07%
-- Flow 3:
  Average throughput: 19.08 Mbit/s
  95th percentile per-packet one-way delay: -0.316 ms
  Loss rate: 0.19%
Run 10: Report of LEDBAT — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 50.34 Mbps)
  - Flow 1 egress (mean 50.31 Mbps)
  - Flow 2 ingress (mean 29.63 Mbps)
  - Flow 2 egress (mean 29.60 Mbps)
  - Flow 3 ingress (mean 19.08 Mbps)
  - Flow 3 egress (mean 19.06 Mbps)

- **Packet delay (ms):**
  - Flow 1 (95th percentile 25.21 ms)
  - Flow 2 (95th percentile 28.16 ms)
  - Flow 3 (95th percentile -0.32 ms)
Run 1: Statistics of PCC

Start at: 2018-02-03 02:01:09
End at: 2018-02-03 02:01:39
Local clock offset: -4.205 ms
Remote clock offset: -19.076 ms

# Below is generated by plot.py at 2018-02-03 06:11:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.26 Mbit/s
95th percentile per-packet one-way delay: 11.533 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 82.25 Mbit/s
95th percentile per-packet one-way delay: 11.742 ms
Loss rate: 1.19%
-- Flow 2:
Average throughput: 9.38 Mbit/s
95th percentile per-packet one-way delay: 16.840 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 5.35 Mbit/s
95th percentile per-packet one-way delay: 4.371 ms
Loss rate: 0.20%
Run 1: Report of PCC — Data Link
Run 2: Statistics of PCC

Start at: 2018-02-03 02:23:05
End at: 2018-02-03 02:23:35
Local clock offset: -1.369 ms
Remote clock offset: -20.514 ms

# Below is generated by plot.py at 2018-02-03 06:11:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.00 Mbit/s
95th percentile per-packet one-way delay: -2.623 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 79.85 Mbit/s
95th percentile per-packet one-way delay: -2.569 ms
Loss rate: 1.14%
-- Flow 2:
Average throughput: 8.65 Mbit/s
95th percentile per-packet one-way delay: -3.102 ms
Loss rate: 1.21%
-- Flow 3:
Average throughput: 10.31 Mbit/s
95th percentile per-packet one-way delay: -3.475 ms
Loss rate: 1.16%
Run 2: Report of PCC — Data Link

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

- Flow 1 ingress (mean 80.79 Mbit/s)
- Flow 1 egress (mean 79.85 Mbit/s)
- Flow 2 ingress (mean 8.76 Mbit/s)
- Flow 2 egress (mean 8.65 Mbit/s)
- Flow 3 ingress (mean 10.43 Mbit/s)
- Flow 3 egress (mean 10.31 Mbit/s)

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

- Flow 1 (95th percentile -2.57 ms)
- Flow 2 (95th percentile -3.10 ms)
- Flow 3 (95th percentile -3.48 ms)
Run 3: Statistics of PCC

Start at: 2018-02-03 02:45:28
End at: 2018-02-03 02:45:58
Local clock offset: -3.306 ms
Remote clock offset: -19.315 ms

# Below is generated by plot.py at 2018-02-03 06:11:35
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 92.20 Mbit/s
  95th percentile per-packet one-way delay: 29.684 ms
  Loss rate: 1.79%

-- Flow 1:
  Average throughput: 80.97 Mbit/s
  95th percentile per-packet one-way delay: 29.959 ms
  Loss rate: 1.83%

-- Flow 2:
  Average throughput: 8.71 Mbit/s
  95th percentile per-packet one-way delay: 31.991 ms
  Loss rate: 1.30%

-- Flow 3:
  Average throughput: 16.49 Mbit/s
  95th percentile per-packet one-way delay: 23.163 ms
  Loss rate: 1.70%
Run 3: Report of PCC — Data Link

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

Legend:
- Flow 1 ingress (mean 82.51 Mbit/s)
- Flow 1 egress (mean 80.97 Mbit/s)
- Flow 2 ingress (mean 8.53 Mbit/s)
- Flow 2 egress (mean 8.71 Mbit/s)
- Flow 3 ingress (mean 16.77 Mbit/s)
- Flow 3 egress (mean 16.49 Mbit/s)
Run 4: Statistics of PCC

Start at: 2018-02-03 03:07:59
End at: 2018-02-03 03:08:29
Local clock offset: 0.784 ms
Remote clock offset: -19.486 ms

# Below is generated by plot.py at 2018-02-03 06:11:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.80 Mbit/s
95th percentile per-packet one-way delay: 21.213 ms
Loss rate: 2.37%
-- Flow 1:
Average throughput: 79.31 Mbit/s
95th percentile per-packet one-way delay: 20.844 ms
Loss rate: 2.40%
-- Flow 2:
Average throughput: 9.60 Mbit/s
95th percentile per-packet one-way delay: 23.017 ms
Loss rate: 2.07%
-- Flow 3:
Average throughput: 9.42 Mbit/s
95th percentile per-packet one-way delay: 23.551 ms
Loss rate: 2.15%
Run 4: Report of PCC — Data Link

![Graphs showing network performance metrics over time]
Run 5: Statistics of PCC

Start at: 2018-02-03 03:30:49
End at: 2018-02-03 03:31:19
Local clock offset: -0.246 ms
Remote clock offset: -20.677 ms

# Below is generated by plot.py at 2018-02-03 06:11:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.53 Mbit/s
95th percentile per-packet one-way delay: 9.335 ms
Loss rate: 2.12%
-- Flow 1:
Average throughput: 77.28 Mbit/s
95th percentile per-packet one-way delay: 9.254 ms
Loss rate: 2.07%
-- Flow 2:
Average throughput: 14.46 Mbit/s
95th percentile per-packet one-way delay: 15.130 ms
Loss rate: 2.74%
-- Flow 3:
Average throughput: 4.99 Mbit/s
95th percentile per-packet one-way delay: 4.378 ms
Loss rate: 0.59%
Run 5: Report of PCC — Data Link

- **Throughput (Mbps)**
  - Flow 1 ingress (mean 78.91 Mbps)
  - Flow 1 egress (mean 77.28 Mbps)
  - Flow 2 ingress (mean 14.87 Mbps)
  - Flow 2 egress (mean 14.66 Mbps)
  - Flow 3 ingress (mean 5.02 Mbps)
  - Flow 3 egress (mean 4.99 Mbps)

- **Per-packet one-way delay (ms)**
  - Flow 1 (95th percentile 9.25 ms)
  - Flow 2 (95th percentile 15.13 ms)
  - Flow 3 (95th percentile 4.38 ms)
Run 6: Statistics of PCC

Start at: 2018-02-03 03:54:07
End at: 2018-02-03 03:54:37
Local clock offset: -2.046 ms
Remote clock offset: -19.823 ms

# Below is generated by plot.py at 2018-02-03 06:12:08
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 90.75 Mbit/s
  95th percentile per-packet one-way delay: 4.736 ms
  Loss rate: 1.65%
-- Flow 1:
  Average throughput: 80.62 Mbit/s
  95th percentile per-packet one-way delay: 4.988 ms
  Loss rate: 1.72%
-- Flow 2:
  Average throughput: 12.91 Mbit/s
  95th percentile per-packet one-way delay: 0.938 ms
  Loss rate: 1.08%
-- Flow 3:
  Average throughput: 4.70 Mbit/s
  95th percentile per-packet one-way delay: 0.113 ms
  Loss rate: 0.99%
Run 6: Report of PCC — Data Link
Run 7: Statistics of PCC

Start at: 2018-02-03 04:16:52
End at: 2018-02-03 04:17:22
Local clock offset: 0.411 ms
Remote clock offset: -20.75 ms

# Below is generated by plot.py at 2018-02-03 06:12:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.08 Mbit/s
95th percentile per-packet one-way delay: -1.581 ms
Loss rate: 2.51%
-- Flow 1:
Average throughput: 68.01 Mbit/s
95th percentile per-packet one-way delay: -2.323 ms
Loss rate: 2.58%
-- Flow 2:
Average throughput: 18.46 Mbit/s
95th percentile per-packet one-way delay: 0.085 ms
Loss rate: 2.28%
-- Flow 3:
Average throughput: 8.47 Mbit/s
95th percentile per-packet one-way delay: 5.402 ms
Loss rate: 1.87%
Run 7: Report of PCC — Data Link

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

- Flow 1 ingress (mean 69.83 Mbit/s)
- Flow 1 egress (mean 68.01 Mbit/s)
- Flow 2 ingress (mean 18.90 Mbit/s)
- Flow 2 egress (mean 18.46 Mbit/s)
- Flow 3 ingress (mean 8.64 Mbit/s)
- Flow 3 egress (mean 8.47 Mbit/s)
Run 8: Statistics of PCC

Start at: 2018-02-03 04:38:54
End at: 2018-02-03 04:39:24
Local clock offset: 2.628 ms
Remote clock offset: -20.774 ms

# Below is generated by plot.py at 2018-02-03 06:12:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 62.83 Mbit/s
95th percentile per-packet one-way delay: 20.546 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 15.31 Mbit/s
95th percentile per-packet one-way delay: 13.747 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 68.03 Mbit/s
95th percentile per-packet one-way delay: 21.120 ms
Loss rate: 1.44%
-- Flow 3:
Average throughput: 6.89 Mbit/s
95th percentile per-packet one-way delay: 29.294 ms
Loss rate: 0.21%
Run 8: Report of PCC — Data Link
Run 9: Statistics of PCC

Start at: 2018-02-03 05:01:24
End at: 2018-02-03 05:01:54
Local clock offset: 0.968 ms
Remote clock offset: -22.88 ms

# Below is generated by plot.py at 2018-02-03 06:12:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.77 Mbit/s
95th percentile per-packet one-way delay: 17.434 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 78.14 Mbit/s
95th percentile per-packet one-way delay: 14.869 ms
Loss rate: 1.39%
-- Flow 2:
Average throughput: 10.74 Mbit/s
95th percentile per-packet one-way delay: 19.740 ms
Loss rate: 1.25%
-- Flow 3:
Average throughput: 13.62 Mbit/s
95th percentile per-packet one-way delay: 25.703 ms
Loss rate: 3.57%
Run 9: Report of PCC — Data Link
Run 10: Statistics of PCC

Start at: 2018-02-03 05:24:23
End at: 2018-02-03 05:24:53
Local clock offset: -1.263 ms
Remote clock offset: -24.252 ms

# Below is generated by plot.py at 2018-02-03 06:12:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 55.85 Mbit/s
95th percentile per-packet one-way delay: 5.426 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 5.75 Mbit/s
95th percentile per-packet one-way delay: 0.571 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 67.29 Mbit/s
95th percentile per-packet one-way delay: 5.296 ms
Loss rate: 1.16%
-- Flow 3:
Average throughput: 16.23 Mbit/s
95th percentile per-packet one-way delay: 19.423 ms
Loss rate: 0.80%
Run 10: Report of PCC — Data Link

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

- **Throughput Graph:**
  - Flow 1 ingress (mean 5.77 Mbit/s)
  - Flow 1 egress (mean 5.75 Mbit/s)
  - Flow 2 ingress (mean 68.08 Mbit/s)
  - Flow 2 egress (mean 67.29 Mbit/s)
  - Flow 3 ingress (mean 16.36 Mbit/s)
  - Flow 3 egress (mean 16.23 Mbit/s)

- **Packet Delay Graph:**
  - Flow 1 (95th percentile 0.57 ms)
  - Flow 2 (95th percentile 5.30 ms)
  - Flow 3 (95th percentile 19.42 ms)
Run 1: Statistics of QUIC Cubic

Start at: 2018-02-03 02:04:52
End at: 2018-02-03 02:05:22
Local clock offset: -2.402 ms
Remote clock offset: -19.278 ms

# Below is generated by plot.py at 2018-02-03 06:12:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 54.02 Mbit/s
95th percentile per-packet one-way delay: 10.925 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 28.65 Mbit/s
95th percentile per-packet one-way delay: 7.717 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 25.08 Mbit/s
95th percentile per-packet one-way delay: 1.691 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 26.45 Mbit/s
95th percentile per-packet one-way delay: 22.951 ms
Loss rate: 0.26%
Run 1: Report of QUIC Cubic — Data Link

![Graph of network throughput and per-packet one-way delay over time for three flows. The graph shows the variation in throughput and delay for each flow throughout the duration of the test.](image-url)
Run 2: Statistics of QUIC Cubic

Start at: 2018-02-03 02:26:48
End at: 2018-02-03 02:27:18
Local clock offset: 0.838 ms
Remote clock offset: -20.193 ms

# Below is generated by plot.py at 2018-02-03 06:12:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 63.46 Mbit/s
95th percentile per-packet one-way delay: 3.637 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 34.22 Mbit/s
95th percentile per-packet one-way delay: -0.371 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 32.18 Mbit/s
95th percentile per-packet one-way delay: 6.365 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 23.90 Mbit/s
95th percentile per-packet one-way delay: 6.070 ms
Loss rate: 0.19%
Run 2: Report of QUIC Cubic — Data Link
Run 3: Statistics of QUIC Cubic

Start at: 2018-02-03 02:49:05
End at: 2018-02-03 02:49:35
Local clock offset: 0.301 ms
Remote clock offset: -20.454 ms

# Below is generated by plot.py at 2018-02-03 06:13:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.32 Mbit/s
95th percentile per-packet one-way delay: 24.181 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 43.31 Mbit/s
95th percentile per-packet one-way delay: 24.634 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 42.11 Mbit/s
95th percentile per-packet one-way delay: 23.882 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 27.55 Mbit/s
95th percentile per-packet one-way delay: 15.942 ms
Loss rate: 0.08%
Run 3: Report of QUIC Cubic — Data Link

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

Legend:
- Flow 1 ingress (mean 43.51 Mbit/s)
- Flow 1 egress (mean 43.31 Mbit/s)
- Flow 2 ingress (mean 42.16 Mbit/s)
- Flow 2 egress (mean 42.11 Mbit/s)
- Flow 3 ingress (mean 27.36 Mbit/s)
- Flow 3 egress (mean 27.55 Mbit/s)
Run 4: Statistics of QUIC Cubic

Start at: 2018-02-03 03:11:42
End at: 2018-02-03 03:12:12
Local clock offset: 1.708 ms
Remote clock offset: -17.869 ms

# Below is generated by plot.py at 2018-02-03 06:13:12
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 61.86 Mbit/s
  95th percentile per-packet one-way delay: 5.398 ms
  Loss rate: 0.75%
-- Flow 1:
  Average throughput: 32.23 Mbit/s
  95th percentile per-packet one-way delay: 7.441 ms
  Loss rate: 0.77%
-- Flow 2:
  Average throughput: 28.61 Mbit/s
  95th percentile per-packet one-way delay: 2.401 ms
  Loss rate: 1.01%
-- Flow 3:
  Average throughput: 32.37 Mbit/s
  95th percentile per-packet one-way delay: 6.236 ms
  Loss rate: 0.18%
Run 4: Report of QUIC Cubic — Data Link

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

![Graph 2: Per packet one-way delay vs. Time](image2)
Run 5: Statistics of QUIC Cubic

Start at: 2018-02-03 03:34:56
End at: 2018-02-03 03:35:26
Local clock offset: -0.326 ms
Remote clock offset: -20.711 ms

# Below is generated by plot.py at 2018-02-03 06:13:12
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 57.45 Mbit/s
  95th percentile per-packet one-way delay: 22.212 ms
  Loss rate: 0.44%
-- Flow 1:
  Average throughput: 30.89 Mbit/s
  95th percentile per-packet one-way delay: 8.781 ms
  Loss rate: 0.33%
-- Flow 2:
  Average throughput: 28.64 Mbit/s
  95th percentile per-packet one-way delay: 26.439 ms
  Loss rate: 0.56%
-- Flow 3:
  Average throughput: 22.93 Mbit/s
  95th percentile per-packet one-way delay: 9.177 ms
  Loss rate: 0.58%
Run 5: Report of QUIC Cubic — Data Link
Run 6: Statistics of QUIC Cubic

Start at: 2018-02-03 03:58:05
End at: 2018-02-03 03:58:35
Local clock offset: 0.495 ms
Remote clock offset: -19.852 ms

# Below is generated by plot.py at 2018-02-03 06:13:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 62.04 Mbit/s
95th percentile per-packet one-way delay: 24.845 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 32.91 Mbit/s
95th percentile per-packet one-way delay: 16.841 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 29.27 Mbit/s
95th percentile per-packet one-way delay: 18.133 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 29.58 Mbit/s
95th percentile per-packet one-way delay: 29.290 ms
Loss rate: 1.17%
Run 6: Report of QUIC Cubic — Data Link

![Graph showing network throughput and per-packet one-way delay over time for three flows with distinct lines and markers indicating mean throughputs.](image)
Run 7: Statistics of QUIC Cubic

Start at: 2018-02-03 04:20:32
End at: 2018-02-03 04:21:02
Local clock offset: 4.429 ms
Remote clock offset: -19.039 ms

# Below is generated by plot.py at 2018-02-03 06:13:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 69.81 Mbit/s
95th percentile per-packet one-way delay: 20.441 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 39.99 Mbit/s
95th percentile per-packet one-way delay: 18.089 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 30.34 Mbit/s
95th percentile per-packet one-way delay: 21.034 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 29.39 Mbit/s
95th percentile per-packet one-way delay: 23.180 ms
Loss rate: 0.28%
Run 7: Report of QUIC Cubic — Data Link

![Graph showing throughput and per-packet one-way delay over time for different flows with mean throughputs labeled (Flow 1 ingress: 40.03 Mbit/s, Flow 2 ingress: 30.40 Mbit/s, Flow 3 ingress: 29.47 Mbit/s, Flow 1 egress: 39.99 Mbit/s, Flow 2 egress: 30.34 Mbit/s, Flow 3 egress: 29.39 Mbit/s).]
Run 8: Statistics of QUIC Cubic

Start at: 2018-02-03 04:42:36
End at: 2018-02-03 04:43:06
Local clock offset: 1.459 ms
Remote clock offset: -20.969 ms

# Below is generated by plot.py at 2018-02-03 06:13:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 72.46 Mbit/s
95th percentile per-packet one-way delay: 13.022 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 42.69 Mbit/s
95th percentile per-packet one-way delay: 11.238 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 31.76 Mbit/s
95th percentile per-packet one-way delay: 13.328 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 26.55 Mbit/s
95th percentile per-packet one-way delay: 14.833 ms
Loss rate: 0.16%
Run 8: Report of QUIC Cubic — Data Link
Run 9: Statistics of QUIC Cubic

Start at: 2018-02-03 05:05:18
End at: 2018-02-03 05:05:48
Local clock offset: 2.153 ms
Remote clock offset: -25.004 ms

# Below is generated by plot.py at 2018-02-03 06:14:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 69.26 Mbit/s
95th percentile per-packet one-way delay: 5.531 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 40.05 Mbit/s
95th percentile per-packet one-way delay: -3.684 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 30.98 Mbit/s
95th percentile per-packet one-way delay: 25.763 ms
Loss rate: 1.93%
-- Flow 3:
Average throughput: 26.27 Mbit/s
95th percentile per-packet one-way delay: -0.679 ms
Loss rate: 0.22%
Run 9: Report of QUIC Cubic — Data Link

![Graph showing throughput over time for different flows with corresponding mean transmission rates.]
Run 10: Statistics of QUIC Cubic

Start at: 2018-02-03 05:28:04
End at: 2018-02-03 05:28:34
Local clock offset: -2.569 ms
Remote clock offset: -23.666 ms

# Below is generated by plot.py at 2018-02-03 06:14:13
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 77.07 Mbit/s
  95th percentile per-packet one-way delay: 10.231 ms
  Loss rate: 0.78%
-- Flow 1:
  Average throughput: 47.35 Mbit/s
  95th percentile per-packet one-way delay: 6.495 ms
  Loss rate: 0.75%
-- Flow 2:
  Average throughput: 30.35 Mbit/s
  95th percentile per-packet one-way delay: 15.706 ms
  Loss rate: 1.14%
-- Flow 3:
  Average throughput: 29.14 Mbit/s
  95th percentile per-packet one-way delay: 8.660 ms
  Loss rate: 0.17%
Run 10: Report of QUIC Cubic — Data Link
Run 1: Statistics of SCReAM

Start at: 2018-02-03 01:47:40
End at: 2018-02-03 01:48:10
Local clock offset: -4.433 ms
Remote clock offset: -20.163 ms

# Below is generated by plot.py at 2018-02-03 06:14:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: -3.451 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -3.454 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -3.496 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: -3.424 ms
Loss rate: 0.00%
Run 1: Report of SCReAM — Data Link

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

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

Start at: 2018-02-03 02:09:44
End at: 2018-02-03 02:10:14
Local clock offset: -0.689 ms
Remote clock offset: -21.394 ms

# Below is generated by plot.py at 2018-02-03 06:14:13
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: -6.932 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: -6.927 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: -6.951 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: -6.904 ms
  Loss rate: 0.00%
Run 2: Report of SCReAM — Data Link
Run 3: Statistics of SCReAM

Start at: 2018-02-03 02:31:45
End at: 2018-02-03 02:32:15
Local clock offset: -2.75 ms
Remote clock offset: -18.991 ms

# Below is generated by plot.py at 2018-02-03 06:14:13
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: -1.980 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: -1.984 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: -1.979 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: -1.970 ms
  Loss rate: 0.00%
Run 4: Statistics of SCReAM

Start at: 2018-02-03 02:54:14
End at: 2018-02-03 02:54:44
Local clock offset: -0.309 ms
Remote clock offset: -20.1 ms

# Below is generated by plot.py at 2018-02-03 06:14:13
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: -5.406 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: -5.425 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: -5.395 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: -5.381 ms
  Loss rate: 0.00%
Run 4: Report of SCReAM — Data Link

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

- Throughput (Mbps)
- Time (s)

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

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

Legend:
- Flow 1 (95th percentile - 5.42 ms)
- Flow 2 (95th percentile - 5.39 ms)
- Flow 3 (95th percentile - 5.38 ms)
Run 5: Statistics of SCReAM

Start at: 2018-02-03 03:16:44
End at: 2018-02-03 03:17:14
Local clock offset: 1.803 ms
Remote clock offset: -20.404 ms

# Below is generated by plot.py at 2018-02-03 06:14:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: -7.998 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -8.007 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -7.994 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: -7.975 ms
Loss rate: 0.00%
Run 6: Statistics of SCReAM

Start at: 2018-02-03 03:40:06
End at: 2018-02-03 03:40:36
Local clock offset: -1.47 ms
Remote clock offset: -21.708 ms

# Below is generated by plot.py at 2018-02-03 06:14:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: -5.575 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -5.584 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -5.547 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: -5.595 ms
Loss rate: 0.00%
Run 6: Report of SCReAM — Data Link

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

![Graph 2: Packet Loss vs Time](image2)
Run 7: Statistics of SCReAM

Start at: 2018-02-03 04:03:07
End at: 2018-02-03 04:03:37
Local clock offset: 2.959 ms
Remote clock offset: -20.14 ms

# Below is generated by plot.py at 2018-02-03 06:14:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: -8.973 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -8.999 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -8.976 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: -8.893 ms
Loss rate: 0.00%
Run 7: Report of SCReAM — Data Link
Run 8: Statistics of SCReAM

Start at: 2018-02-03 04:25:31  
End at: 2018-02-03 04:26:01  
Local clock offset: 3.484 ms  
Remote clock offset: -19.191 ms

# Below is generated by plot.py at 2018-02-03 06:14:13  
# Datalink statistics
   -- Total of 3 flows:
     Average throughput: 0.43 Mbit/s  
     95th percentile per-packet one-way delay: -0.097 ms  
     Loss rate: 0.00%
   -- Flow 1:
     Average throughput: 0.21 Mbit/s  
     95th percentile per-packet one-way delay: -0.782 ms  
     Loss rate: 0.00%
   -- Flow 2:
     Average throughput: 0.21 Mbit/s  
     95th percentile per-packet one-way delay: 0.005 ms  
     Loss rate: 0.00%
   -- Flow 3:
     Average throughput: 0.22 Mbit/s  
     95th percentile per-packet one-way delay: -0.052 ms  
     Loss rate: 0.00%
Run 8: Report of SCReAM — Data Link
Run 9: Statistics of SCReAM

Start at: 2018-02-03 04:47:34
End at: 2018-02-03 04:48:04
Local clock offset: 2.442 ms
Remote clock offset: -19.907 ms

# Below is generated by plot.py at 2018-02-03 06:14:13
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.42 Mbit/s
  95th percentile per-packet one-way delay: -0.813 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: -0.059 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: -1.743 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: -2.970 ms
  Loss rate: 0.00%
Run 9: Report of SCReAM — Data Link

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

Start at: 2018-02-03 05:10:47
End at: 2018-02-03 05:11:17
Local clock offset: 3.11 ms
Remote clock offset: -22.195 ms

# Below is generated by plot.py at 2018-02-03 06:14:13
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 1.987 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 1.472 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 2.747 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 0.671 ms
  Loss rate: 0.00%
Run 10: Report of SCReAM — Data Link

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

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

Start at: 2018-02-03 02:07:22
End at: 2018-02-03 02:07:52
Local clock offset: -2.49 ms
Remote clock offset: -18.722 ms

# Below is generated by plot.py at 2018-02-03 06:14:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.50 Mbit/s
95th percentile per-packet one-way delay: -1.282 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: -1.416 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.50 Mbit/s
95th percentile per-packet one-way delay: -1.209 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.65 Mbit/s
95th percentile per-packet one-way delay: -1.135 ms
Loss rate: 0.00%
Run 1: Report of WebRTC media — Data Link
Run 2: Statistics of WebRTC media

Start at: 2018-02-03 02:29:18
End at: 2018-02-03 02:29:48
Local clock offset: -3.067 ms
Remote clock offset: -20.242 ms

# Below is generated by plot.py at 2018-02-03 06:14:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.49 Mbit/s
95th percentile per-packet one-way delay: -1.735 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: -2.092 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.51 Mbit/s
95th percentile per-packet one-way delay: -1.542 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.64 Mbit/s
95th percentile per-packet one-way delay: -1.306 ms
Loss rate: 0.00%
Run 2: Report of WebRTC media — Data Link

![Graph showing throughput and per-packet one-way delay over time for different flows with specified mean bitrates and 95th percentile delays.](image)

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Run 3: Statistics of WebRTC media

Start at: 2018-02-03 02:51:48
End at: 2018-02-03 02:52:18
Local clock offset: 2.371 ms
Remote clock offset: -19.342 ms

# Below is generated by plot.py at 2018-02-03 06:14:13
# Datalink statistics
-- Total of 3 flows:
   Average throughput: 4.71 Mbit/s
   95th percentile per-packet one-way delay: -6.157 ms
   Loss rate: 0.01%
-- Flow 1:
   Average throughput: 2.59 Mbit/s
   95th percentile per-packet one-way delay: -6.470 ms
   Loss rate: 0.01%
-- Flow 2:
   Average throughput: 1.50 Mbit/s
   95th percentile per-packet one-way delay: -6.164 ms
   Loss rate: 0.00%
-- Flow 3:
   Average throughput: 0.65 Mbit/s
   95th percentile per-packet one-way delay: -5.540 ms
   Loss rate: 0.00%
Run 3: Report of WebRTC media — Data Link
Run 4: Statistics of WebRTC media

Start at: 2018-02-03 03:14:18
End at: 2018-02-03 03:14:48
Local clock offset: -2.753 ms
Remote clock offset: -19.708 ms

# Below is generated by plot.py at 2018-02-03 06:14:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.48 Mbit/s
95th percentile per-packet one-way delay: -1.709 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: -2.017 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.50 Mbit/s
95th percentile per-packet one-way delay: -1.561 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.65 Mbit/s
95th percentile per-packet one-way delay: -1.159 ms
Loss rate: 0.00%
Run 4: Report of WebRTC media — Data Link

Graph 1: Throughput (Mbps) vs. Time (s)

- Flow 1 ingress (mean 2.34 Mbps)
- Flow 1 egress (mean 2.34 Mbps)
- Flow 2 ingress (mean 1.50 Mbps)
- Flow 2 egress (mean 1.50 Mbps)
- Flow 3 ingress (mean 0.65 Mbps)
- Flow 3 egress (mean 0.65 Mbps)

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

- Flow 1 (95th percentile -2.02 ms)
- Flow 2 (95th percentile -1.56 ms)
- Flow 3 (95th percentile -1.16 ms)
Run 5: Statistics of WebRTC media

Start at: 2018-02-03 03:37:43
End at: 2018-02-03 03:38:13
Local clock offset: -0.589 ms
Remote clock offset: -20.211 ms

# Below is generated by plot.py at 2018-02-03 06:14:13
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 4.47 Mbit/s
  95th percentile per-packet one-way delay: -3.984 ms
  Loss rate: 0.00%
  -- Flow 1:
  Average throughput: 2.34 Mbit/s
  95th percentile per-packet one-way delay: -4.254 ms
  Loss rate: 0.00%
  -- Flow 2:
  Average throughput: 1.50 Mbit/s
  95th percentile per-packet one-way delay: -3.927 ms
  Loss rate: 0.00%
  -- Flow 3:
  Average throughput: 0.64 Mbit/s
  95th percentile per-packet one-way delay: -3.381 ms
  Loss rate: 0.00%
Run 5: Report of WebRTC media — Data Link
Run 6: Statistics of WebRTC media

Start at: 2018-02-03 04:00:45
End at: 2018-02-03 04:01:15
Local clock offset: 1.26 ms
Remote clock offset: -19.227 ms

# Below is generated by plot.py at 2018-02-03 06:14:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.48 Mbit/s
95th percentile per-packet one-way delay: -5.170 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: -5.556 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.50 Mbit/s
95th percentile per-packet one-way delay: -5.140 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.65 Mbit/s
95th percentile per-packet one-way delay: -4.522 ms
Loss rate: 0.00%
Run 7: Statistics of WebRTC media

Start at: 2018-02-03 04:23:07
End at: 2018-02-03 04:23:37
Local clock offset: 1.661 ms
Remote clock offset: -20.555 ms

# Below is generated by plot.py at 2018-02-03 06:14:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.48 Mbit/s
95th percentile per-packet one-way delay: -5.848 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: -6.141 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.50 Mbit/s
95th percentile per-packet one-way delay: -5.744 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.64 Mbit/s
95th percentile per-packet one-way delay: -5.324 ms
Loss rate: 0.00%
Run 7: Report of WebRTC media — Data Link

[Graph showing throughput and packet delay over time for different flows]
Run 8: Statistics of WebRTC media

Start at: 2018-02-03 04:45:07
End at: 2018-02-03 04:45:37
Local clock offset: 2.477 ms
Remote clock offset: -21.067 ms

# Below is generated by plot.py at 2018-02-03 06:14:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.02 Mbit/s
95th percentile per-packet one-way delay: -0.548 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 2.62 Mbit/s
95th percentile per-packet one-way delay: -0.830 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 1.76 Mbit/s
95th percentile per-packet one-way delay: -0.329 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 0.64 Mbit/s
95th percentile per-packet one-way delay: -0.364 ms
Loss rate: 0.33%
Run 8: Report of WebRTC media — Data Link
Run 9: Statistics of WebRTC media

Start at: 2018-02-03 05:07:50  
End at: 2018-02-03 05:08:20  
Local clock offset: 0.8 ms  
Remote clock offset: -23.549 ms

# Below is generated by plot.py at 2018-02-03 06:14:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.47 Mbit/s  
95th percentile per-packet one-way delay: 4.285 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.35 Mbit/s  
95th percentile per-packet one-way delay: 4.266 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.49 Mbit/s  
95th percentile per-packet one-way delay: 4.137 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.64 Mbit/s  
95th percentile per-packet one-way delay: 4.601 ms  
Loss rate: 0.00%
Run 9: Report of WebRTC media — Data Link
Run 10: Statistics of WebRTC media

Start at: 2018-02-03 05:30:41
End at: 2018-02-03 05:31:11
Local clock offset: 0.034 ms
Remote clock offset: -24.49 ms

# Below is generated by plot.py at 2018-02-03 06:14:13
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 4.49 Mbit/s
  95th percentile per-packet one-way delay: 2.072 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 2.34 Mbit/s
  95th percentile per-packet one-way delay: 2.015 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 1.50 Mbit/s
  95th percentile per-packet one-way delay: 1.952 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.66 Mbit/s
  95th percentile per-packet one-way delay: 2.488 ms
  Loss rate: 0.00%
Run 10: Report of WebRTC media — Data Link
Run 1: Statistics of Sprout

Start at: 2018-02-03 01:49:57
End at: 2018-02-03 01:50:27
Local clock offset: -2.521 ms
Remote clock offset: -19.397 ms

# Below is generated by plot.py at 2018-02-03 06:14:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.13 Mbit/s
95th percentile per-packet one-way delay: 4.593 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 24.29 Mbit/s
95th percentile per-packet one-way delay: 4.604 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 24.09 Mbit/s
95th percentile per-packet one-way delay: 4.948 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 23.82 Mbit/s
95th percentile per-packet one-way delay: 3.355 ms
Loss rate: 0.81%
Run 1: Report of Sprout — Data Link

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**Top Diagram:**
- **Y-axis:** Throughput (Mbit/s)
- **X-axis:** Time (s)
- **Legend:**
  - Flow 1 ingress (mean 24.41 Mbit/s)
  - Flow 1 egress (mean 24.29 Mbit/s)
  - Flow 2 ingress (mean 24.25 Mbit/s)
  - Flow 2 egress (mean 24.09 Mbit/s)
  - Flow 3 ingress (mean 24.03 Mbit/s)
  - Flow 3 egress (mean 23.62 Mbit/s)

**Bottom Diagram:**
- **Y-axis:** Per packet one-way delay (ms)
- **X-axis:** Time (s)
- **Legend:**
  - Flow 1 (95th percentile 4.60 ms)
  - Flow 2 (95th percentile 4.95 ms)
  - Flow 3 (95th percentile 3.35 ms)
Run 2: Statistics of Sprout

Start at: 2018-02-03 02:12:01
End at: 2018-02-03 02:12:31
Local clock offset: -5.69 ms
Remote clock offset: -17.737 ms

# Below is generated by plot.py at 2018-02-03 06:14:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.13 Mbit/s
95th percentile per-packet one-way delay: 11.669 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 24.17 Mbit/s
95th percentile per-packet one-way delay: 10.503 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 24.10 Mbit/s
95th percentile per-packet one-way delay: 12.286 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 24.02 Mbit/s
95th percentile per-packet one-way delay: 12.146 ms
Loss rate: 0.26%
Run 2: Report of Sprout — Data Link

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

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

Start at: 2018-02-03 02:34:05
End at: 2018-02-03 02:34:35
Local clock offset: -0.237 ms
Remote clock offset: -19.51 ms

# Below is generated by plot.py at 2018-02-03 06:14:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.80 Mbit/s
95th percentile per-packet one-way delay: 3.300 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 24.54 Mbit/s
95th percentile per-packet one-way delay: 2.869 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 24.43 Mbit/s
95th percentile per-packet one-way delay: 3.853 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 24.27 Mbit/s
95th percentile per-packet one-way delay: 3.867 ms
Loss rate: 0.20%
Run 3: Report of Sprout — Data Link
Run 4: Statistics of Sprout

Start at: 2018-02-03 02:56:32
End at: 2018-02-03 02:57:02
Local clock offset: 0.015 ms
Remote clock offset: -19.104 ms

# Below is generated by plot.py at 2018-02-03 06:14:27
# Datalink statistics
-- Total of 3 flows:
 Average throughput: 48.66 Mbit/s
 95th percentile per-packet one-way delay: 3.166 ms
 Loss rate: 0.09%
-- Flow 1:
 Average throughput: 24.53 Mbit/s
 95th percentile per-packet one-way delay: 3.252 ms
 Loss rate: 0.06%
-- Flow 2:
 Average throughput: 24.39 Mbit/s
 95th percentile per-packet one-way delay: 3.137 ms
 Loss rate: 0.09%
-- Flow 3:
 Average throughput: 23.98 Mbit/s
 95th percentile per-packet one-way delay: 2.965 ms
 Loss rate: 0.18%
Run 4: Report of Sprout — Data Link
Run 5: Statistics of Sprout

Start at: 2018-02-03 03:19:04
End at: 2018-02-03 03:19:34
Local clock offset: 1.107 ms
Remote clock offset: -21.494 ms

# Below is generated by plot.py at 2018-02-03 06:14:32
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 48.36 Mbit/s
  95th percentile per-packet one-way delay: 1.079 ms
  Loss rate: 0.41%
-- Flow 1:
  Average throughput: 24.29 Mbit/s
  95th percentile per-packet one-way delay: 1.509 ms
  Loss rate: 0.37%
-- Flow 2:
  Average throughput: 24.27 Mbit/s
  95th percentile per-packet one-way delay: 0.555 ms
  Loss rate: 0.36%
-- Flow 3:
  Average throughput: 24.02 Mbit/s
  95th percentile per-packet one-way delay: 0.499 ms
  Loss rate: 0.64%
Run 5: Report of Sprout — Data Link

![Graph showing throughput and per-packet one-way delay](image-url)
Run 6: Statistics of Sprout

Start at: 2018-02-03 03:42:23
End at: 2018-02-03 03:42:53
Local clock offset: -1.443 ms
Remote clock offset: -20.226 ms

# Below is generated by plot.py at 2018-02-03 06:14:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.48 Mbit/s
95th percentile per-packet one-way delay: 5.471 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 24.36 Mbit/s
95th percentile per-packet one-way delay: 5.210 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 24.31 Mbit/s
95th percentile per-packet one-way delay: 5.580 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 24.08 Mbit/s
95th percentile per-packet one-way delay: 5.727 ms
Loss rate: 0.36%
Run 6: Report of Sprout — Data Link
Run 7: Statistics of Sprout

Start at: 2018-02-03 04:05:26
End at: 2018-02-03 04:05:56
Local clock offset: 3.353 ms
Remote clock offset: -19.966 ms

# Below is generated by plot.py at 2018-02-03 06:14:49
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 48.57 Mbit/s
  95th percentile per-packet one-way delay: 0.110 ms
  Loss rate: 0.12%
-- Flow 1:
  Average throughput: 24.49 Mbit/s
  95th percentile per-packet one-way delay: -0.937 ms
  Loss rate: 0.09%
-- Flow 2:
  Average throughput: 24.37 Mbit/s
  95th percentile per-packet one-way delay: -0.286 ms
  Loss rate: 0.12%
-- Flow 3:
  Average throughput: 23.84 Mbit/s
  95th percentile per-packet one-way delay: 1.988 ms
  Loss rate: 0.25%
Run 7: Report of Sprout — Data Link

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

- Flow 1 ingress (mean 24.51 Mbit/s)
- Flow 1 egress (mean 24.49 Mbit/s)
- Flow 2 ingress (mean 24.41 Mbit/s)
- Flow 2 egress (mean 24.37 Mbit/s)
- Flow 3 ingress (mean 23.90 Mbit/s)
- Flow 3 egress (mean 23.84 Mbit/s)
Run 8: Statistics of Sprout

Start at: 2018-02-03 04:27:47
End at: 2018-02-03 04:28:18
Local clock offset: 3.632 ms
Remote clock offset: -19.675 ms

# Below is generated by plot.py at 2018-02-03 06:14:58
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 48.55 Mbit/s
  95th percentile per-packet one-way delay: 1.043 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 24.40 Mbit/s
  95th percentile per-packet one-way delay: 0.844 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 24.40 Mbit/s
  95th percentile per-packet one-way delay: 1.385 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 23.98 Mbit/s
  95th percentile per-packet one-way delay: 0.724 ms
  Loss rate: 0.00%
Run 8: Report of Sprout — Data Link

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

- **Flow 1 ingress (mean 24.40 Mbps)**
- **Flow 1 egress (mean 24.40 Mbps)**
- **Flow 2 ingress (mean 24.41 Mbps)**
- **Flow 2 egress (mean 24.40 Mbps)**
- **Flow 3 ingress (mean 23.99 Mbps)**
- **Flow 3 egress (mean 23.98 Mbps)**

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

- **Flow 1 (95th percentile 0.84 ms)**
- **Flow 2 (95th percentile 1.39 ms)**
- **Flow 3 (95th percentile 0.72 ms)**

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Run 9: Statistics of Sprout

Start at: 2018-02-03 04:49:51
End at: 2018-02-03 04:50:21
Local clock offset: 2.113 ms
Remote clock offset: -20.642 ms

# Below is generated by plot.py at 2018-02-03 06:15:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.41 Mbit/s
95th percentile per-packet one-way delay: 2.326 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 24.42 Mbit/s
95th percentile per-packet one-way delay: 1.564 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 24.25 Mbit/s
95th percentile per-packet one-way delay: 2.518 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 23.81 Mbit/s
95th percentile per-packet one-way delay: 3.901 ms
Loss rate: 0.01%
Run 9: Report of Sprout — Data Link

![Graph showing network performance metrics for different flows over time. The graphs depict throughput and per-packet one-way delay for flows 1, 2, and 3.]

Legend:
- Flow 1 ingress (mean 24.43 Mbit/s)
- Flow 1 egress (mean 24.42 Mbit/s)
- Flow 2 ingress (mean 24.27 Mbit/s)
- Flow 2 egress (mean 24.25 Mbit/s)
- Flow 3 ingress (mean 23.82 Mbit/s)
- Flow 3 egress (mean 23.81 Mbit/s)

Legend for per-packet one-way delay:
- Flow 1 (95th percentile 1.56 ms)
- Flow 2 (95th percentile 2.52 ms)
- Flow 3 (95th percentile 3.90 ms)
Run 10: Statistics of Sprout

Start at: 2018-02-03 05:13:07
End at: 2018-02-03 05:13:37
Local clock offset: 1.91 ms
Remote clock offset: -24.586 ms

# Below is generated by plot.py at 2018-02-03 06:15:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.50 Mbit/s
95th percentile per-packet one-way delay: 1.910 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.42 Mbit/s
95th percentile per-packet one-way delay: 2.204 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.31 Mbit/s
95th percentile per-packet one-way delay: 1.841 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 23.97 Mbit/s
95th percentile per-packet one-way delay: 0.648 ms
Loss rate: 0.00%
Run 10: Report of Sprout — Data Link
Run 1: Statistics of TaoVA-100x

Start at: 2018-02-03 02:06:04
End at: 2018-02-03 02:06:34
Local clock offset: -0.518 ms
Remote clock offset: -20.656 ms

# Below is generated by plot.py at 2018-02-03 06:16:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.76 Mbit/s
95th percentile per-packet one-way delay: 26.097 ms
Loss rate: 8.47%
-- Flow 1:
Average throughput: 56.74 Mbit/s
95th percentile per-packet one-way delay: 23.508 ms
Loss rate: 5.48%
-- Flow 2:
Average throughput: 39.69 Mbit/s
95th percentile per-packet one-way delay: 26.902 ms
Loss rate: 9.51%
-- Flow 3:
Average throughput: 31.85 Mbit/s
95th percentile per-packet one-way delay: 29.450 ms
Loss rate: 19.79%
Run 1: Report of TaoVA-100x — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 60.07 Mbit/s)
Flow 1 egress (mean 56.74 Mbit/s)
Flow 2 ingress (mean 43.91 Mbit/s)
Flow 2 egress (mean 39.69 Mbit/s)
Flow 3 ingress (mean 39.74 Mbit/s)
Flow 3 egress (mean 31.05 Mbit/s)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 23.51 ms)
Flow 2 (95th percentile 26.90 ms)
Flow 3 (95th percentile 29.45 ms)
Run 2: Statistics of TaoVA-100x

Start at: 2018-02-03 02:27:58
End at: 2018-02-03 02:28:28
Local clock offset: 0.565 ms
Remote clock offset: -18.417 ms

# Below is generated by plot.py at 2018-02-03 06:16:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.75 Mbit/s
95th percentile per-packet one-way delay: 27.417 ms
Loss rate: 8.33%
-- Flow 1:
Average throughput: 56.70 Mbit/s
95th percentile per-packet one-way delay: 24.693 ms
Loss rate: 5.47%
-- Flow 2:
Average throughput: 39.82 Mbit/s
95th percentile per-packet one-way delay: 28.176 ms
Loss rate: 9.12%
-- Flow 3:
Average throughput: 31.70 Mbit/s
95th percentile per-packet one-way delay: 31.198 ms
Loss rate: 19.66%
Run 2: Report of TaoVA-100x — Data Link

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

*Legend for Graph 1:*
- Blue dashed line: Flow 1 ingress (mean 60.01 Mbit/s)
- Blue solid line: Flow 1 egress (mean 56.70 Mbit/s)
- Green dashed line: Flow 2 ingress (mean 43.87 Mbit/s)
- Green solid line: Flow 2 egress (mean 39.82 Mbit/s)
- Red dashed line: Flow 3 ingress (mean 39.52 Mbit/s)
- Red solid line: Flow 3 egress (mean 31.70 Mbit/s)

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

*Legend for Graph 2:*
- Blue dots: Flow 1 (95th percentile 24.69 ms)
- Green dots: Flow 2 (95th percentile 28.18 ms)
- Red dots: Flow 3 (95th percentile 31.20 ms)

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Run 3: Statistics of TaoVA-100x

Start at: 2018-02-03 02:50:19
End at: 2018-02-03 02:50:49
Local clock offset: -0.369 ms
Remote clock offset: -20.271 ms

# Below is generated by plot.py at 2018-02-03 06:16:55
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 93.33 Mbit/s
  95th percentile per-packet one-way delay: 22.481 ms
  Loss rate: 4.00%
-- Flow 1:
  Average throughput: 48.16 Mbit/s
  95th percentile per-packet one-way delay: 20.720 ms
  Loss rate: 3.58%
-- Flow 2:
  Average throughput: 45.40 Mbit/s
  95th percentile per-packet one-way delay: 24.525 ms
  Loss rate: 5.68%
-- Flow 3:
  Average throughput: 45.02 Mbit/s
  95th percentile per-packet one-way delay: 21.372 ms
  Loss rate: 1.82%
Run 3: Report of TaoVA-100x — Data Link

![Graph showing throughput and packet delay over time for different flows with specified mean throughputs and 95th percentile delays.]

Throughput (Mbps/s)
- Flow 1 ingress (mean 49.97 Mbps/s)
- Flow 1 egress (mean 48.16 Mbps/s)
- Flow 2 ingress (mean 48.15 Mbps/s)
- Flow 2 egress (mean 45.40 Mbps/s)
- Flow 3 ingress (mean 45.86 Mbps/s)
- Flow 3 egress (mean 45.02 Mbps/s)

Packet delay (ms)
- Flow 1 (95th percentile 20.72 ms)
- Flow 2 (95th percentile 24.52 ms)
- Flow 3 (95th percentile 21.37 ms)
Run 4: Statistics of TaoVA-100x

Start at: 2018-02-03 03:12:54
End at: 2018-02-03 03:13:24
Local clock offset: -0.619 ms
Remote clock offset: -21.11 ms

# Below is generated by plot.py at 2018-02-03 06:17:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.58 Mbit/s
95th percentile per-packet one-way delay: 25.845 ms
Loss rate: 9.17%
-- Flow 1:
Average throughput: 56.71 Mbit/s
95th percentile per-packet one-way delay: 22.737 ms
Loss rate: 6.23%
-- Flow 2:
Average throughput: 39.54 Mbit/s
95th percentile per-packet one-way delay: 26.668 ms
Loss rate: 10.33%
-- Flow 3:
Average throughput: 31.82 Mbit/s
95th percentile per-packet one-way delay: 29.568 ms
Loss rate: 20.05%
Run 4: Report of TaoVA-100x — Data Link
Run 5: Statistics of TaoVA-100x

Start at: 2018-02-03 03:36:09
End at: 2018-02-03 03:36:39
Local clock offset: -0.708 ms
Remote clock offset: -20.638 ms

# Below is generated by plot.py at 2018-02-03 06:17:21
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 93.89 Mbit/s
  95th percentile per-packet one-way delay: 27.350 ms
  Loss rate: 8.35%
-- Flow 1:
  Average throughput: 56.85 Mbit/s
  95th percentile per-packet one-way delay: 25.096 ms
  Loss rate: 5.46%
-- Flow 2:
  Average throughput: 39.77 Mbit/s
  95th percentile per-packet one-way delay: 28.075 ms
  Loss rate: 9.14%
-- Flow 3:
  Average throughput: 31.79 Mbit/s
  95th percentile per-packet one-way delay: 30.640 ms
  Loss rate: 19.78%
Run 5: Report of TaoVA-100x — Data Link
Run 6: Statistics of TaoVA-100x

Start at: 2018-02-03 03:59:18
End at: 2018-02-03 03:59:48
Local clock offset: -1.881 ms
Remote clock offset: -18.708 ms

# Below is generated by plot.py at 2018-02-03 06:17:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.73 Mbit/s
95th percentile per-packet one-way delay: 29.442 ms
Loss rate: 8.77%
-- Flow 1:
Average throughput: 56.83 Mbit/s
95th percentile per-packet one-way delay: 26.876 ms
Loss rate: 5.68%
-- Flow 2:
Average throughput: 39.53 Mbit/s
95th percentile per-packet one-way delay: 30.249 ms
Loss rate: 10.10%
-- Flow 3:
Average throughput: 31.78 Mbit/s
95th percentile per-packet one-way delay: 33.235 ms
Loss rate: 19.88%
Run 6: Report of TaoVA-100x — Data Link
Run 7: Statistics of TaoVA-100x

Start at: 2018-02-03 04:21:44
End at: 2018-02-03 04:22:14
Local clock offset: 1.105 ms
Remote clock offset: -19.251 ms

# Below is generated by plot.py at 2018-02-03 06:17:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.65 Mbit/s
95th percentile per-packet one-way delay: 27.709 ms
Loss rate: 8.03%
-- Flow 1:
Average throughput: 55.67 Mbit/s
95th percentile per-packet one-way delay: 25.373 ms
Loss rate: 4.77%
-- Flow 2:
Average throughput: 39.71 Mbit/s
95th percentile per-packet one-way delay: 28.483 ms
Loss rate: 9.23%
-- Flow 3:
Average throughput: 31.72 Mbit/s
95th percentile per-packet one-way delay: 30.702 ms
Loss rate: 19.90%
Run 7: Report of TaoVA-100x — Data Link
Run 8: Statistics of TaoVA-100x

Start at: 2018-02-03 04:43:48  
End at: 2018-02-03 04:44:18  
Local clock offset: 1.948 ms  
Remote clock offset: -19.382 ms

# Below is generated by plot.py at 2018-02-03 06:17:37

# Datalink statistics

-- Total of 3 flows:
Average throughput: 93.43 Mbit/s
95th percentile per-packet one-way delay: 27.608 ms
Loss rate: 8.58%

-- Flow 1:
Average throughput: 56.75 Mbit/s
95th percentile per-packet one-way delay: 24.101 ms
Loss rate: 5.18%

-- Flow 2:
Average throughput: 39.23 Mbit/s
95th percentile per-packet one-way delay: 28.499 ms
Loss rate: 10.40%

-- Flow 3:
Average throughput: 31.74 Mbit/s
95th percentile per-packet one-way delay: 31.273 ms
Loss rate: 20.04%
Run 8: Report of TaoVA-100x — Data Link

**Throughput (Mbps)**

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

**Delay (ms)**

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

Flow 1 ingress (mean 59.98 Mbps)  
Flow 2 ingress (mean 43.81 Mbps)  
Flow 3 ingress (mean 39.73 Mbps)  
Flow 1 egress (mean 56.75 Mbps)  
Flow 2 egress (mean 39.23 Mbps)  
Flow 3 egress (mean 31.74 Mbps)
Run 9: Statistics of TaoVA-100x

Start at: 2018-02-03 05:06:30
End at: 2018-02-03 05:07:00
Local clock offset: 1.973 ms
Remote clock offset: -22.206 ms

# Below is generated by plot.py at 2018-02-03 06:19:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.41 Mbit/s
95th percentile per-packet one-way delay: 27.764 ms
Loss rate: 8.16%
-- Flow 1:
Average throughput: 56.46 Mbit/s
95th percentile per-packet one-way delay: 23.935 ms
Loss rate: 4.96%
-- Flow 2:
Average throughput: 39.73 Mbit/s
95th percentile per-packet one-way delay: 28.675 ms
Loss rate: 9.32%
-- Flow 3:
Average throughput: 31.63 Mbit/s
95th percentile per-packet one-way delay: 31.449 ms
Loss rate: 20.09%
Run 9: Report of TaoVA-100x — Data Link

![Graph 1: Throughput Over Time]

- Flow 1 ingress (mean 59.40 Mbit/s)
- Flow 1 egress (mean 56.46 Mbit/s)
- Flow 2 ingress (mean 43.81 Mbit/s)
- Flow 2 egress (mean 39.73 Mbit/s)
- Flow 3 ingress (mean 39.55 Mbit/s)
- Flow 3 egress (mean 31.63 Mbit/s)

![Graph 2: Delay Over Time]

- Flow 1 (95th percentile 23.93 ms)
- Flow 2 (95th percentile 28.68 ms)
- Flow 3 (95th percentile 31.45 ms)
Run 10: Statistics of TaoVA-100x

Start at: 2018-02-03 05:29:25
End at: 2018-02-03 05:29:55
Local clock offset: 0.392 ms
Remote clock offset: -23.92 ms

# Below is generated by plot.py at 2018-02-03 06:19:32
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 92.35 Mbit/s
  95th percentile per-packet one-way delay: 28.722 ms
  Loss rate: 8.38%
-- Flow 1:
  Average throughput: 55.56 Mbit/s
  95th percentile per-packet one-way delay: 24.449 ms
  Loss rate: 5.00%
-- Flow 2:
  Average throughput: 39.41 Mbit/s
  95th percentile per-packet one-way delay: 29.564 ms
  Loss rate: 9.99%
-- Flow 3:
  Average throughput: 31.76 Mbit/s
  95th percentile per-packet one-way delay: 32.256 ms
  Loss rate: 19.84%
Run 10: Report of TaoVA-100x — Data Link

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

*Flow 1 ingress (mean 58.51 Mbps) - Flow 1 egress (mean 55.56 Mbps)*
*Flow 2 ingress (mean 43.82 Mbps) - Flow 2 egress (mean 39.41 Mbps)*
*Flow 3 ingress (mean 39.69 Mbps) - Flow 3 egress (mean 31.76 Mbps)*

![Graph 2: Round-trip delay (ms)](image2)

*Flow 1 (95th percentile 24.45 ms) - Flow 2 (95th percentile 29.56 ms) - Flow 3 (95th percentile 32.26 ms)*

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Run 1: Statistics of TCP Vegas

Start at: 2018-02-03 01:54:54
End at: 2018-02-03 01:55:24
Local clock offset: -2.028 ms
Remote clock offset: -18.761 ms

# Below is generated by plot.py at 2018-02-03 06:19:32
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 56.22 Mbit/s
  95th percentile per-packet one-way delay: 7.480 ms
  Loss rate: 0.38%
-- Flow 1:
  Average throughput: 31.78 Mbit/s
  95th percentile per-packet one-way delay: 7.651 ms
  Loss rate: 0.11%
-- Flow 2:
  Average throughput: 26.22 Mbit/s
  95th percentile per-packet one-way delay: 8.508 ms
  Loss rate: 0.98%
-- Flow 3:
  Average throughput: 21.06 Mbit/s
  95th percentile per-packet one-way delay: -2.706 ms
  Loss rate: 0.10%
Run 1: Report of TCP Vegas — Data Link
Run 2: Statistics of TCP Vegas

Start at: 2018-02-03 02:16:53
End at: 2018-02-03 02:17:23
Local clock offset: -0.043 ms
Remote clock offset: -19.474 ms

# Below is generated by plot.py at 2018-02-03 06:19:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 56.28 Mbit/s
95th percentile per-packet one-way delay: 6.595 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 31.11 Mbit/s
95th percentile per-packet one-way delay: 4.904 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 25.69 Mbit/s
95th percentile per-packet one-way delay: 8.505 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 24.32 Mbit/s
95th percentile per-packet one-way delay: 6.759 ms
Loss rate: 0.08%
Run 2: Report of TCP Vegas — Data Link

![Graph 1: Throughput (Mbps vs Time (s))](image1)
- Flow 1 ingress (mean 31.14 Mbps/s)
- Flow 1 egress (mean 31.11 Mbps/s)
- Flow 2 ingress (mean 25.70 Mbps/s)
- Flow 2 egress (mean 25.69 Mbps/s)
- Flow 3 ingress (mean 24.34 Mbps/s)
- Flow 3 egress (mean 24.32 Mbps/s)

![Graph 2: Per packet one way delay (ms) vs Time (s)](image2)
- Flow 1 (95th percentile 4.90 ms)
- Flow 2 (95th percentile 8.51 ms)
- Flow 3 (95th percentile 6.76 ms)
Run 3: Statistics of TCP Vegas

Start at: 2018-02-03 02:39:04  
End at: 2018-02-03 02:39:34  
Local clock offset: -0.179 ms  
Remote clock offset: -21.567 ms

# Below is generated by plot.py at 2018-02-03 06:19:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 68.69 Mbit/s  
95th percentile per-packet one-way delay: 14.277 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 35.94 Mbit/s  
95th percentile per-packet one-way delay: 9.476 ms  
Loss rate: 0.46%  
-- Flow 2:  
Average throughput: 36.91 Mbit/s  
95th percentile per-packet one-way delay: 16.753 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 24.63 Mbit/s  
95th percentile per-packet one-way delay: -5.389 ms  
Loss rate: 0.08%
Run 3: Report of TCP Vegas — Data Link

![Network Throughput Graph]

- Flow 1 ingress (mean 36.11 Mbit/s)
- Flow 1 egress (mean 35.94 Mbit/s)
- Flow 2 ingress (mean 36.92 Mbit/s)
- Flow 2 egress (mean 36.91 Mbit/s)
- Flow 3 ingress (mean 24.64 Mbit/s)
- Flow 3 egress (mean 24.63 Mbit/s)

![Packet Loss Graph]

- Flow 1 (95th percentile 9.48 ms)
- Flow 2 (95th percentile 16.75 ms)
- Flow 3 (95th percentile 5.39 ms)
Run 4: Statistics of TCP Vegas

Start at: 2018-02-03 03:01:36
End at: 2018-02-03 03:02:06
Local clock offset: 2.118 ms
Remote clock offset: -19.126 ms

# Below is generated by plot.py at 2018-02-03 06:19:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 67.65 Mbit/s
95th percentile per-packet one-way delay: 13.526 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 34.39 Mbit/s
95th percentile per-packet one-way delay: 7.530 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 36.39 Mbit/s
95th percentile per-packet one-way delay: 16.276 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 27.20 Mbit/s
95th percentile per-packet one-way delay: -5.928 ms
Loss rate: 0.06%
Run 4: Report of TCP Vegas — Data Link

[Graph showing throughput and per-packet one-way delay over time for different flows, each with specified mean throughput.]
Run 5: Statistics of TCP Vegas

Start at: 2018-02-03 03:24:18
End at: 2018-02-03 03:24:48
Local clock offset: -2.164 ms
Remote clock offset: -22.163 ms

# Below is generated by plot.py at 2018-02-03 06:19:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 41.46 Mbit/s
95th percentile per-packet one-way delay: 4.177 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 22.77 Mbit/s
95th percentile per-packet one-way delay: 5.298 ms
Loss rate: 0.82%
-- Flow 2:
Average throughput: 19.09 Mbit/s
95th percentile per-packet one-way delay: -4.588 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 18.04 Mbit/s
95th percentile per-packet one-way delay: 5.970 ms
Loss rate: 2.79%
Run 5: Report of TCP Vegas — Data Link

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

- Flow 1 ingress (mean 22.96 Mbps/s)
- Flow 1 egress (mean 22.77 Mbps/s)
- Flow 2 ingress (mean 19.13 Mbps/s)
- Flow 2 egress (mean 19.09 Mbps/s)
- Flow 3 ingress (mean 18.56 Mbps/s)
- Flow 3 egress (mean 16.04 Mbps/s)

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

- Flow 1 (95th percentile 5.30 ms)
- Flow 2 (95th percentile 4.59 ms)
- Flow 3 (95th percentile 5.97 ms)
Run 6: Statistics of TCP Vegas

Start at: 2018-02-03 03:47:35
End at: 2018-02-03 03:48:05
Local clock offset: -2.839 ms
Remote clock offset: -19.713 ms

# Below is generated by plot.py at 2018-02-03 06:19:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 58.84 Mbit/s
95th percentile per-packet one-way delay: 6.583 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 36.06 Mbit/s
95th percentile per-packet one-way delay: 6.413 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 22.82 Mbit/s
95th percentile per-packet one-way delay: 5.792 ms
Loss rate: 0.97%
-- Flow 3:
Average throughput: 22.90 Mbit/s
95th percentile per-packet one-way delay: 21.910 ms
Loss rate: 0.09%
Run 6: Report of TCP Vegas — Data Link
Run 7: Statistics of TCP Vegas

Start at: 2018-02-03 04:10:23
End at: 2018-02-03 04:10:53
Local clock offset: 3.367 ms
Remote clock offset: -19.322 ms

# Below is generated by plot.py at 2018-02-03 06:19:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 60.65 Mbit/s
95th percentile per-packet one-way delay: -1.860 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 34.91 Mbit/s
95th percentile per-packet one-way delay: -1.774 ms
Loss rate: 1.14%
-- Flow 2:
Average throughput: 25.14 Mbit/s
95th percentile per-packet one-way delay: -5.524 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 27.12 Mbit/s
95th percentile per-packet one-way delay: 16.581 ms
Loss rate: 0.07%
Run 7: Report of TCP Vegas — Data Link

Graph showing throughput and per-packet one-way delay over time.
Run 8: Statistics of TCP Vegas

Start at: 2018-02-03 04:32:42
End at: 2018-02-03 04:33:12
Local clock offset: 2.235 ms
Remote clock offset: -21.88 ms

# Below is generated by plot.py at 2018-02-03 06:19:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 72.26 Mbit/s
95th percentile per-packet one-way delay: 2.218 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 44.92 Mbit/s
95th percentile per-packet one-way delay: 2.315 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 30.23 Mbit/s
95th percentile per-packet one-way delay: 3.075 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 21.68 Mbit/s
95th percentile per-packet one-way delay: -4.598 ms
Loss rate: 0.01%
Run 8: Report of TCP Vegas — Data Link

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

- Flow 1 ingress (mean 44.91 Mbit/s)
- Flow 1 egress (mean 44.92 Mbit/s)
- Flow 2 ingress (mean 30.23 Mbit/s)
- Flow 2 egress (mean 30.23 Mbit/s)
- Flow 3 ingress (mean 21.68 Mbit/s)
- Flow 3 egress (mean 21.68 Mbit/s)

- Flow 1 (95th percentile 2.31 ms)
- Flow 2 (95th percentile 3.08 ms)
- Flow 3 (95th percentile -4.60 ms)
Run 9: Statistics of TCP Vegas

Start at: 2018-02-03 04:55:01
End at: 2018-02-03 04:55:31
Local clock offset: 0.354 ms
Remote clock offset: -19.041 ms

# Below is generated by plot.py at 2018-02-03 06:19:32
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 67.18 Mbit/s
  95th percentile per-packet one-way delay: 1.334 ms
  Loss rate: 0.84%
-- Flow 1:
  Average throughput: 38.41 Mbit/s
  95th percentile per-packet one-way delay: 1.315 ms
  Loss rate: 1.10%
-- Flow 2:
  Average throughput: 28.77 Mbit/s
  95th percentile per-packet one-way delay: 4.827 ms
  Loss rate: 0.74%
-- Flow 3:
  Average throughput: 29.02 Mbit/s
  95th percentile per-packet one-way delay: -0.046 ms
  Loss rate: 0.02%
Run 9: Report of TCP Vegas — Data Link

![Graph of Throughput and Delay]

**Throughput (Mbps):**
- Flow 1 ingress (mean 38.83 Mbps)
- Flow 1 egress (mean 38.41 Mbps)
- Flow 2 ingress (mean 28.98 Mbps)
- Flow 2 egress (mean 28.77 Mbps)
- Flow 3 ingress (mean 29.07 Mbps)
- Flow 3 egress (mean 29.02 Mbps)

**Delay (ms):**
- Flow 1 (95th percentile 1.31 ms)
- Flow 2 (95th percentile 4.83 ms)
- Flow 3 (95th percentile -0.05 ms)
Run 10: Statistics of TCP Vegas

Start at: 2018-02-03 05:18:07
End at: 2018-02-03 05:18:37
Local clock offset: 0.411 ms
Remote clock offset: -22.886 ms

# Below is generated by plot.py at 2018-02-03 06:19:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 70.77 Mbit/s
95th percentile per-packet one-way delay: -0.495 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 37.48 Mbit/s
95th percentile per-packet one-way delay: -0.488 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 32.78 Mbit/s
95th percentile per-packet one-way delay: -0.486 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 34.37 Mbit/s
95th percentile per-packet one-way delay: -0.690 ms
Loss rate: 0.01%
Run 10: Report of TCP Vegas — Data Link
Run 1: Statistics of Verus

Start at: 2018-02-03 02:03:38
End at: 2018-02-03 02:04:08
Local clock offset: -1.62 ms
Remote clock offset: -19.786 ms

# Below is generated by plot.py at 2018-02-03 06:19:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 73.53 Mbit/s
95th percentile per-packet one-way delay: 29.535 ms
Loss rate: 29.06%
-- Flow 1:
Average throughput: 50.46 Mbit/s
95th percentile per-packet one-way delay: 29.533 ms
Loss rate: 30.52%
-- Flow 2:
Average throughput: 26.13 Mbit/s
95th percentile per-packet one-way delay: 29.779 ms
Loss rate: 24.94%
-- Flow 3:
Average throughput: 20.28 Mbit/s
95th percentile per-packet one-way delay: 28.357 ms
Loss rate: 27.66%
Run 1: Report of Verus — Data Link
Run 2: Statistics of Verus

Start at: 2018-02-03 02:25:36
End at: 2018-02-03 02:26:06
Local clock offset: -2.692 ms
Remote clock offset: -18.507 ms

# Below is generated by plot.py at 2018-02-03 06:19:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.99 Mbit/s
95th percentile per-packet one-way delay: 31.829 ms
Loss rate: 21.73%
-- Flow 1:
Average throughput: 51.30 Mbit/s
95th percentile per-packet one-way delay: 30.727 ms
Loss rate: 19.11%
-- Flow 2:
Average throughput: 24.54 Mbit/s
95th percentile per-packet one-way delay: 33.021 ms
Loss rate: 22.59%
-- Flow 3:
Average throughput: 30.28 Mbit/s
95th percentile per-packet one-way delay: 33.673 ms
Loss rate: 31.97%
Run 2: Report of Verus — Data Link
Run 3: Statistics of Verus

Start at: 2018-02-03 02:47:53
End at: 2018-02-03 02:48:23
Local clock offset: 0.544 ms
Remote clock offset: -19.219 ms

# Below is generated by plot.py at 2018-02-03 06:20:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 73.56 Mbit/s
95th percentile per-packet one-way delay: 30.197 ms
Loss rate: 53.01%
-- Flow 1:
Average throughput: 44.23 Mbit/s
95th percentile per-packet one-way delay: 23.597 ms
Loss rate: 12.41%
-- Flow 2:
Average throughput: 25.14 Mbit/s
95th percentile per-packet one-way delay: 27.532 ms
Loss rate: 21.54%
-- Flow 3:
Average throughput: 44.01 Mbit/s
95th percentile per-packet one-way delay: 36.789 ms
Loss rate: 83.29%
Run 3: Report of Verus — Data Link
Run 4: Statistics of Verus

Start at: 2018-02-03 03:10:28
End at: 2018-02-03 03:10:58
Local clock offset: 1.168 ms
Remote clock offset: -19.645 ms

# Below is generated by plot.py at 2018-02-03 06:20:08
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 74.34 Mbit/s
  95th percentile per-packet one-way delay: 26.029 ms
  Loss rate: 15.90%
-- Flow 1:
  Average throughput: 46.29 Mbit/s
  95th percentile per-packet one-way delay: 23.927 ms
  Loss rate: 12.29%
-- Flow 2:
  Average throughput: 28.04 Mbit/s
  95th percentile per-packet one-way delay: 26.842 ms
  Loss rate: 18.69%
-- Flow 3:
  Average throughput: 28.69 Mbit/s
  95th percentile per-packet one-way delay: 29.198 ms
  Loss rate: 25.82%
Run 4: Report of Verus — Data Link

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

- Flow 1 ingress (mean 52.78 Mbit/s)
- Flow 1 egress (mean 46.29 Mbit/s)
- Flow 2 ingress (mean 34.46 Mbit/s)
- Flow 2 egress (mean 28.04 Mbit/s)
- Flow 3 ingress (mean 38.74 Mbit/s)
- Flow 3 egress (mean 28.69 Mbit/s)

- Flow 1 (95th percentile 23.93 ms)
- Flow 2 (95th percentile 26.84 ms)
- Flow 3 (95th percentile 29.20 ms)
Run 5: Statistics of Verus

Start at: 2018-02-03 03:33:41
End at: 2018-02-03 03:34:11
Local clock offset: -0.998 ms
Remote clock offset: -20.535 ms

# Below is generated by plot.py at 2018-02-03 06:20:18
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 76.37 Mbit/s
  95th percentile per-packet one-way delay: 27.097 ms
  Loss rate: 18.59%
-- Flow 1:
  Average throughput: 48.59 Mbit/s
  95th percentile per-packet one-way delay: 24.342 ms
  Loss rate: 10.80%
-- Flow 2:
  Average throughput: 30.87 Mbit/s
  95th percentile per-packet one-way delay: 30.029 ms
  Loss rate: 32.78%
-- Flow 3:
  Average throughput: 22.83 Mbit/s
  95th percentile per-packet one-way delay: 28.308 ms
  Loss rate: 17.55%
Run 5: Report of Verus — Data Link
Run 6: Statistics of Verus

Start at: 2018-02-03 03:56:46
End at: 2018-02-03 03:57:16
Local clock offset: -1.263 ms
Remote clock offset: -19.168 ms

# Below is generated by plot.py at 2018-02-03 06:20:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 70.39 Mbit/s
95th percentile per-packet one-way delay: 31.274 ms
Loss rate: 23.26%
-- Flow 1:
Average throughput: 45.70 Mbit/s
95th percentile per-packet one-way delay: 30.409 ms
Loss rate: 20.85%
-- Flow 2:
Average throughput: 26.48 Mbit/s
95th percentile per-packet one-way delay: 31.953 ms
Loss rate: 26.30%
-- Flow 3:
Average throughput: 25.80 Mbit/s
95th percentile per-packet one-way delay: 33.135 ms
Loss rate: 29.68%
Run 6: Report of Verus — Data Link

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

- **Flow 1 ingress (mean 57.80 Mbit/s)**
- **Flow 1 egress (mean 45.70 Mbit/s)**
- **Flow 2 ingress (mean 35.32 Mbit/s)**
- **Flow 2 egress (mean 26.48 Mbit/s)**
- **Flow 3 ingress (mean 32.95 Mbit/s)**
- **Flow 3 egress (mean 25.80 Mbit/s)**

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

- **Flow 1 (95th percentile 30.41 ms)**
- **Flow 2 (95th percentile 31.95 ms)**
- **Flow 3 (95th percentile 33.13 ms)**
Run 7: Statistics of Verus

Start at: 2018-02-03 04:19:19
End at: 2018-02-03 04:19:49
Local clock offset: 3.205 ms
Remote clock offset: -18.576 ms

# Below is generated by plot.py at 2018-02-03 06:20:45
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 76.71 Mbit/s
  95th percentile per-packet one-way delay: 25.861 ms
  Loss rate: 22.99%
-- Flow 1:
  Average throughput: 45.23 Mbit/s
  95th percentile per-packet one-way delay: 24.021 ms
  Loss rate: 13.21%
-- Flow 2:
  Average throughput: 39.22 Mbit/s
  95th percentile per-packet one-way delay: 27.188 ms
  Loss rate: 29.74%
-- Flow 3:
  Average throughput: 23.39 Mbit/s
  95th percentile per-packet one-way delay: 29.259 ms
  Loss rate: 42.22%
Run 7: Report of Verus — Data Link

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**Throughput (Mb/s)**

- Flow 1 ingress (mean 51.78 Mb/s)
- Flow 1 egress (mean 45.23 Mb/s)
- Flow 2 ingress (mean 55.58 Mb/s)
- Flow 2 egress (mean 39.22 Mb/s)
- Flow 3 ingress (mean 40.53 Mb/s)
- Flow 3 egress (mean 23.39 Mb/s)

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

- Flow 1 (95th percentile 24.02 ms)
- Flow 2 (95th percentile 27.19 ms)
- Flow 3 (95th percentile 29.26 ms)
Run 8: Statistics of Verus

Start at: 2018-02-03 04:41:21
End at: 2018-02-03 04:41:51
Local clock offset: 0.914 ms
Remote clock offset: -19.484 ms

# Below is generated by plot.py at 2018-02-03 06:20:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.00 Mbit/s
95th percentile per-packet one-way delay: 30.934 ms
Loss rate: 23.79%
-- Flow 1:
Average throughput: 45.25 Mbit/s
95th percentile per-packet one-way delay: 29.328 ms
Loss rate: 23.59%
-- Flow 2:
Average throughput: 39.49 Mbit/s
95th percentile per-packet one-way delay: 32.221 ms
Loss rate: 26.49%
-- Flow 3:
Average throughput: 22.69 Mbit/s
95th percentile per-packet one-way delay: 32.045 ms
Loss rate: 14.11%
Run 8: Report of Verus — Data Link

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

- Flow 1 ingress (mean 59.21 Mbit/s)
- Flow 1 egress (mean 45.25 Mbit/s)
- Flow 2 ingress (mean 53.67 Mbit/s)
- Flow 2 egress (mean 39.49 Mbit/s)
- Flow 3 ingress (mean 26.40 Mbit/s)
- Flow 3 egress (mean 22.69 Mbit/s)

![Graph showing per-packet one-way delay over time for flows 1, 2, and 3.]

- Flow 1 (95th percentile 29.33 ms)
- Flow 2 (95th percentile 32.22 ms)
- Flow 3 (95th percentile 32.05 ms)
Run 9: Statistics of Verus

Start at: 2018-02-03 05:04:00
End at: 2018-02-03 05:04:30
Local clock offset: 2.077 ms
Remote clock offset: -23.623 ms

# Below is generated by plot.py at 2018-02-03 06:20:56
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 76.66 Mbit/s
  95th percentile per-packet one-way delay: 28.911 ms
  Loss rate: 24.09%
  -- Flow 1:
    Average throughput: 52.01 Mbit/s
    95th percentile per-packet one-way delay: 29.044 ms
    Loss rate: 25.00%
  -- Flow 2:
    Average throughput: 30.14 Mbit/s
    95th percentile per-packet one-way delay: 28.261 ms
    Loss rate: 21.11%
  -- Flow 3:
    Average throughput: 14.03 Mbit/s
    95th percentile per-packet one-way delay: 30.197 ms
    Loss rate: 26.03%
Run 9: Report of Verus — Data Link

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

**Throughput (Mbps):**
- Flow 1 ingress (mean 69.36 Mbps)
- Flow 2 ingress (mean 38.25 Mbps)
- Flow 3 ingress (mean 16.97 Mbps)
- Flow 1 egress (mean 52.01 Mbps)
- Flow 2 egress (mean 30.14 Mbps)
- Flow 3 egress (mean 14.03 Mbps)

**Packet Delay (ms):**
- Flow 1 (95th percentile 29.04 ms)
- Flow 2 (95th percentile 28.26 ms)
- Flow 3 (95th percentile 30.20 ms)
Run 10: Statistics of Verus

Start at: 2018-02-03 05:26:50
End at: 2018-02-03 05:27:20
Local clock offset: -0.398 ms
Remote clock offset: -25.371 ms

# Below is generated by plot.py at 2018-02-03 06:20:57
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 80.22 Mbit/s
  95th percentile per-packet one-way delay: 30.077 ms
  Loss rate: 17.10%
-- Flow 1:
  Average throughput: 58.20 Mbit/s
  95th percentile per-packet one-way delay: 29.989 ms
  Loss rate: 16.28%
-- Flow 2:
  Average throughput: 28.92 Mbit/s
  95th percentile per-packet one-way delay: 30.436 ms
  Loss rate: 19.52%
-- Flow 3:
  Average throughput: 9.77 Mbit/s
  95th percentile per-packet one-way delay: 29.103 ms
  Loss rate: 17.16%
Run 10: Report of Verus — Data Link

[Graph showing throughput and packet delay over time for different flows, with labels and legends indicating mean throughput and 95th percentile delay.]
Run 1: Statistics of Copa

Start at: 2018-02-03 01:59:53
End at: 2018-02-03 02:00:23
Local clock offset: -2.566 ms
Remote clock offset: -18.813 ms

# Below is generated by plot.py at 2018-02-03 06:21:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 74.83 Mbit/s
95th percentile per-packet one-way delay: -2.554 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 38.66 Mbit/s
95th percentile per-packet one-way delay: -2.615 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 38.33 Mbit/s
95th percentile per-packet one-way delay: -2.539 ms
Loss rate: 0.97%
-- Flow 3:
Average throughput: 32.04 Mbit/s
95th percentile per-packet one-way delay: -2.368 ms
Loss rate: 0.92%
Run 1: Report of Copa — Data Link

[Graph showing throughput over time with different colored lines for Flow 1, Flow 2, and Flow 3, indicating mean throughput values of 38.90, 38.72, and 32.34 Mbps, respectively, and their ingress and egress data.]
Run 2: Statistics of Copa

Start at: 2018-02-03 02:21:47
End at: 2018-02-03 02:22:17
Local clock offset: -2.081 ms
Remote clock offset: -20.648 ms

# Below is generated by plot.py at 2018-02-03 06:22:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 73.17 Mbit/s
95th percentile per-packet one-way delay: -4.194 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 35.53 Mbit/s
95th percentile per-packet one-way delay: -4.205 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 39.14 Mbit/s
95th percentile per-packet one-way delay: -4.226 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 34.86 Mbit/s
95th percentile per-packet one-way delay: -4.130 ms
Loss rate: 0.15%
Run 2: Report of Copa — Data Link

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

- **Flow 1 ingress (mean 35.65 Mbps)**
- **Flow 1 egress (mean 35.53 Mbps)**
- **Flow 2 ingress (mean 39.37 Mbps)**
- **Flow 2 egress (mean 39.14 Mbps)**
- **Flow 3 ingress (mean 34.92 Mbps)**
- **Flow 3 egress (mean 34.86 Mbps)**

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

- **Flow 1 (95th percentile -4.21 ms)**
- **Flow 2 (95th percentile -4.23 ms)**
- **Flow 3 (95th percentile -4.13 ms)**
Run 3: Statistics of Copa

Start at: 2018-02-03 02:44:07
End at: 2018-02-03 02:44:37
Local clock offset: -2.185 ms
Remote clock offset: -20.301 ms

# Below is generated by plot.py at 2018-02-03 06:22:14
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 72.67 Mbit/s
  95th percentile per-packet one-way delay: -3.517 ms
  Loss rate: 1.42%
-- Flow 1:
  Average throughput: 38.31 Mbit/s
  95th percentile per-packet one-way delay: -3.594 ms
  Loss rate: 1.03%
-- Flow 2:
  Average throughput: 35.71 Mbit/s
  95th percentile per-packet one-way delay: -3.487 ms
  Loss rate: 1.54%
-- Flow 3:
  Average throughput: 31.80 Mbit/s
  95th percentile per-packet one-way delay: -3.418 ms
  Loss rate: 2.58%
Run 3: Report of Copa — Data Link

![Throughput Graph]

![Packet Delay Graph]
Run 4: Statistics of Copa

Start at: 2018-02-03 03:06:40
End at: 2018-02-03 03:07:10
Local clock offset: 0.064 ms
Remote clock offset: -20.489 ms

# Below is generated by plot.py at 2018-02-03 06:22:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 70.56 Mbit/s
95th percentile per-packet one-way delay: -6.259 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 35.58 Mbit/s
95th percentile per-packet one-way delay: -6.269 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 36.92 Mbit/s
95th percentile per-packet one-way delay: -6.253 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 31.29 Mbit/s
95th percentile per-packet one-way delay: -6.238 ms
Loss rate: 1.39%
Run 4: Report of Copa — Data Link
Run 5: Statistics of Copa

Start at: 2018-02-03 03:29:28  
End at: 2018-02-03 03:29:58  
Local clock offset: -1.408 ms  
Remote clock offset: -21.836 ms  

# Below is generated by plot.py at 2018-02-03 06:22:38  
# Datalink statistics  
-- Total of 3 flows:  
	Average throughput: 69.99 Mbit/s  
	95th percentile per-packet one-way delay: -5.806 ms  
	Loss rate: 1.74%  
-- Flow 1:  
	Average throughput: 36.10 Mbit/s  
	95th percentile per-packet one-way delay: -5.832 ms  
	Loss rate: 1.21%  
-- Flow 2:  
	Average throughput: 33.74 Mbit/s  
	95th percentile per-packet one-way delay: -5.813 ms  
	Loss rate: 1.92%  
-- Flow 3:  
	Average throughput: 34.41 Mbit/s  
	95th percentile per-packet one-way delay: -5.741 ms  
	Loss rate: 3.00%
Run 5: Report of Copa — Data Link

Throughput (Mbps) vs Time (s)

- Flow 1 Ingress (mean 36.54 Mbps)
- Flow 1 Egress (mean 36.10 Mbps)
- Flow 2 Ingress (mean 34.40 Mbps)
- Flow 2 Egress (mean 33.74 Mbps)
- Flow 3 Ingress (mean 35.47 Mbps)
- Flow 3 Egress (mean 34.41 Mbps)

Per-packet one-way delay (ms)

- Flow 1 (95th percentile -5.03 ms)
- Flow 2 (95th percentile -5.81 ms)
- Flow 3 (95th percentile -5.74 ms)
Run 6: Statistics of Copa

Start at: 2018-02-03 03:52:46
End at: 2018-02-03 03:53:16
Local clock offset: -0.157 ms
Remote clock offset: -20.185 ms

# Below is generated by plot.py at 2018-02-03 06:22:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 69.40 Mbit/s
95th percentile per-packet one-way delay: -5.431 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 35.45 Mbit/s
95th percentile per-packet one-way delay: -5.477 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 33.89 Mbit/s
95th percentile per-packet one-way delay: -5.436 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 34.30 Mbit/s
95th percentile per-packet one-way delay: -5.340 ms
Loss rate: 1.41%
Run 6: Report of Copa — Data Link
Run 7: Statistics of Copa

Start at: 2018-02-03 04:15:32
End at: 2018-02-03 04:16:02
Local clock offset: -1.722 ms
Remote clock offset: -19.923 ms

# Below is generated by plot.py at 2018-02-03 06:22:40
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 62.37 Mbit/s
  95th percentile per-packet one-way delay: -2.196 ms
  Loss rate: 1.14%
-- Flow 1:
  Average throughput: 31.60 Mbit/s
  95th percentile per-packet one-way delay: -1.887 ms
  Loss rate: 0.90%
-- Flow 2:
  Average throughput: 31.84 Mbit/s
  95th percentile per-packet one-way delay: -2.473 ms
  Loss rate: 1.34%
-- Flow 3:
  Average throughput: 28.82 Mbit/s
  95th percentile per-packet one-way delay: -2.192 ms
  Loss rate: 1.47%
Run 7: Report of Copa — Data Link
Run 8: Statistics of Copa

Start at: 2018-02-03 04:37:34
End at: 2018-02-03 04:38:05
Local clock offset: 0.747 ms
Remote clock offset: -20.345 ms

# Below is generated by plot.py at 2018-02-03 06:22:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 65.95 Mbit/s
95th percentile per-packet one-way delay: -3.575 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 34.07 Mbit/s
95th percentile per-packet one-way delay: -3.221 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 31.35 Mbit/s
95th percentile per-packet one-way delay: -3.941 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 33.15 Mbit/s
95th percentile per-packet one-way delay: -4.205 ms
Loss rate: 0.60%
Run 8: Report of Copa — Data Link

![Throughput Graph]

- Flow 1 ingress (mean 34.13 Mbit/s)
- Flow 1 egress (mean 34.07 Mbit/s)
- Flow 2 ingress (mean 31.43 Mbit/s)
- Flow 2 egress (mean 31.35 Mbit/s)
- Flow 3 ingress (mean 33.37 Mbit/s)
- Flow 3 egress (mean 33.15 Mbit/s)

![Packet Delay Graph]

- Flow 1 (95th percentile -3.22 ms)
- Flow 2 (95th percentile -3.94 ms)
- Flow 3 (95th percentile -4.21 ms)
Run 9: Statistics of Copa

Start at: 2018-02-03 05:00:04
End at: 2018-02-03 05:00:34
Local clock offset: 0.575 ms
Remote clock offset: -22.198 ms

# Below is generated by plot.py at 2018-02-03 06:23:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 60.40 Mbit/s
95th percentile per-packet one-way delay: -3.886 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 31.03 Mbit/s
95th percentile per-packet one-way delay: -3.719 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 29.65 Mbit/s
95th percentile per-packet one-way delay: -4.061 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 29.01 Mbit/s
95th percentile per-packet one-way delay: -3.852 ms
Loss rate: 0.47%
Run 9: Report of Copa — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 Ingress (mean 31.08 Mbps)
  - Flow 1 Egress (mean 31.03 Mbps)
  - Flow 2 Ingress (mean 29.72 Mbps)
  - Flow 2 Egress (mean 29.65 Mbps)
  - Flow 3 Ingress (mean 29.16 Mbps)
  - Flow 3 Egress (mean 29.01 Mbps)

- **Per-packet one-way delay (ms):**
  - Flow 1 (95th percentile -3.72 ms)
  - Flow 2 (95th percentile -4.06 ms)
  - Flow 3 (95th percentile -3.85 ms)
Run 10: Statistics of Copa

Start at: 2018-02-03 05:23:07
End at: 2018-02-03 05:23:37
Local clock offset: 0.855 ms
Remote clock offset: -23.03 ms

# Below is generated by plot.py at 2018-02-03 06:23:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 68.85 Mbit/s
95th percentile per-packet one-way delay: -3.829 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 36.41 Mbit/s
95th percentile per-packet one-way delay: -3.960 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 34.64 Mbit/s
95th percentile per-packet one-way delay: -3.926 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 28.23 Mbit/s
95th percentile per-packet one-way delay: -3.179 ms
Loss rate: 0.32%
Run 10: Report of Copa — Data Link
Run 1: Statistics of FillP

Start at: 2018-02-03 01:51:06
End at: 2018-02-03 01:51:36
Local clock offset: -4.546 ms
Remote clock offset: -18.893 ms

# Below is generated by plot.py at 2018-02-03 06:24:48
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 91.01 Mbit/s
  95th percentile per-packet one-way delay: 33.796 ms
  Loss rate: 20.55%
-- Flow 1:
  Average throughput: 52.08 Mbit/s
  95th percentile per-packet one-way delay: 31.967 ms
  Loss rate: 15.44%
-- Flow 2:
  Average throughput: 39.01 Mbit/s
  95th percentile per-packet one-way delay: 34.982 ms
  Loss rate: 26.09%
-- Flow 3:
  Average throughput: 39.15 Mbit/s
  95th percentile per-packet one-way delay: 35.278 ms
  Loss rate: 27.30%
Run 1: Report of FillP — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 61.59 Mbps)
  - Flow 1 egress (mean 52.08 Mbps)
  - Flow 2 ingress (mean 52.78 Mbps)
  - Flow 2 egress (mean 39.01 Mbps)
  - Flow 3 ingress (mean 53.82 Mbps)
  - Flow 3 egress (mean 39.15 Mbps)

- **Per-packet one-way delay (ms):**
  - Flow 1 (95th percentile 31.97 ms)
  - Flow 2 (95th percentile 34.98 ms)
  - Flow 3 (95th percentile 35.28 ms)
Run 2: Statistics of FillP

Start at: 2018-02-03 02:13:12
End at: 2018-02-03 02:13:42
Local clock offset: -3.53 ms
Remote clock offset: -20.734 ms

# Below is generated by plot.py at 2018-02-03 06:24:55
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 90.56 Mbit/s
  95th percentile per-packet one-way delay: 32.117 ms
  Loss rate: 18.50%
-- Flow 1:
  Average throughput: 55.93 Mbit/s
  95th percentile per-packet one-way delay: 30.798 ms
  Loss rate: 14.58%
-- Flow 2:
  Average throughput: 36.25 Mbit/s
  95th percentile per-packet one-way delay: 33.020 ms
  Loss rate: 21.35%
-- Flow 3:
  Average throughput: 31.70 Mbit/s
  95th percentile per-packet one-way delay: 33.619 ms
  Loss rate: 29.77%
Run 3: Statistics of FillP

Start at: 2018-02-03 02:35:14
End at: 2018-02-03 02:35:44
Local clock offset: -3.402 ms
Remote clock offset: -20.069 ms

# Below is generated by plot.py at 2018-02-03 06:25:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.34 Mbit/s
95th percentile per-packet one-way delay: 33.643 ms
Loss rate: 18.93%
-- Flow 1:
Average throughput: 50.13 Mbit/s
95th percentile per-packet one-way delay: 31.510 ms
Loss rate: 13.57%
-- Flow 2:
Average throughput: 39.04 Mbit/s
95th percentile per-packet one-way delay: 34.630 ms
Loss rate: 22.69%
-- Flow 3:
Average throughput: 45.95 Mbit/s
95th percentile per-packet one-way delay: 34.844 ms
Loss rate: 27.69%
Run 3: Report of FillP — Data Link

![Data Link Throughput Graph]

![Data Link Delay Graph]

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Run 4: Statistics of FillP

Start at: 2018-02-03 02:57:41
End at: 2018-02-03 02:58:11
Local clock offset: 3.212 ms
Remote clock offset: -19.142 ms

# Below is generated by plot.py at 2018-02-03 06:25:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.45 Mbit/s
95th percentile per-packet one-way delay: 27.373 ms
Loss rate: 19.49%
-- Flow 1:
Average throughput: 55.01 Mbit/s
95th percentile per-packet one-way delay: 25.651 ms
Loss rate: 14.40%
-- Flow 2:
Average throughput: 40.56 Mbit/s
95th percentile per-packet one-way delay: 28.508 ms
Loss rate: 24.58%
-- Flow 3:
Average throughput: 28.51 Mbit/s
95th percentile per-packet one-way delay: 28.459 ms
Loss rate: 30.19%
Run 4: Report of FillP — Data Link

![Graph 1: Throughput (Mbps)]

- **Flow 1 ingress (mean 64.30 Mbps)**
- **Flow 1 egress (mean 55.01 Mbps)**
- **Flow 2 ingress (mean 53.81 Mbps)**
- **Flow 2 egress (mean 40.56 Mbps)**
- **Flow 3 ingress (mean 40.78 Mbps)**
- **Flow 3 egress (mean 28.51 Mbps)**

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

- **Flow 1 (95th percentile 25.65 ms)**
- **Flow 2 (95th percentile 28.51 ms)**
- **Flow 3 (95th percentile 28.46 ms)**
Run 5: Statistics of FILLP

Start at: 2018-02-03 03:20:14
End at: 2018-02-03 03:20:44
Local clock offset: 2.166 ms
Remote clock offset: -20.669 ms

# Below is generated by plot.py at 2018-02-03 06:25:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.93 Mbit/s
95th percentile per-packet one-way delay: 27.040 ms
Loss rate: 19.06%
-- Flow 1:
Average throughput: 53.88 Mbit/s
95th percentile per-packet one-way delay: 25.435 ms
Loss rate: 14.66%
-- Flow 2:
Average throughput: 41.52 Mbit/s
95th percentile per-packet one-way delay: 28.107 ms
Loss rate: 23.09%
-- Flow 3:
Average throughput: 28.39 Mbit/s
95th percentile per-packet one-way delay: 28.288 ms
Loss rate: 29.08%
Run 5: Report of FillP — Data Link

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

Legend:
- Flow 1 ingress (mean 63.17 Mbit/s)
- Flow 1 egress (mean 53.88 Mbit/s)
- Flow 2 ingress (mean 54.02 Mbit/s)
- Flow 2 egress (mean 41.52 Mbit/s)
- Flow 3 ingress (mean 40.12 Mbit/s)
- Flow 3 egress (mean 28.39 Mbit/s)

Per packet one-way delay (ms)

- Flow 1 (95th percentile 25.43 ms)
- Flow 2 (95th percentile 28.11 ms)
- Flow 3 (95th percentile 28.29 ms)
Run 6: Statistics of F11P

Start at: 2018-02-03 03:43:34
End at: 2018-02-03 03:44:04
Local clock offset: 0.748 ms
Remote clock offset: -21.227 ms

# Below is generated by plot.py at 2018-02-03 06:25:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.23 Mbit/s
95th percentile per-packet one-way delay: 28.466 ms
Loss rate: 19.84%
-- Flow 1:
Average throughput: 52.29 Mbit/s
95th percentile per-packet one-way delay: 26.532 ms
Loss rate: 14.45%
-- Flow 2:
Average throughput: 40.00 Mbit/s
95th percentile per-packet one-way delay: 29.739 ms
Loss rate: 25.48%
-- Flow 3:
Average throughput: 37.25 Mbit/s
95th percentile per-packet one-way delay: 29.435 ms
Loss rate: 27.38%
Run 6: Report of FillP — Data Link
Run 7: Statistics of FillP

Start at: 2018-02-03 04:06:37
End at: 2018-02-03 04:07:07
Local clock offset: 1.54 ms
Remote clock offset: -18.312 ms

# Below is generated by plot.py at 2018-02-03 06:26:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.18 Mbit/s
95th percentile per-packet one-way delay: 30.630 ms
Loss rate: 19.11%
-- Flow 1:
Average throughput: 51.25 Mbit/s
95th percentile per-packet one-way delay: 28.566 ms
Loss rate: 14.52%
-- Flow 2:
Average throughput: 39.69 Mbit/s
95th percentile per-packet one-way delay: 31.666 ms
Loss rate: 23.37%
-- Flow 3:
Average throughput: 41.30 Mbit/s
95th percentile per-packet one-way delay: 31.843 ms
Loss rate: 26.14%
Run 7: Report of FillP — Data Link

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

- **Throughput (Mbps)** vs **Time (s)**
  - Flow 1 ingress (mean 60.01 Mbps)
  - Flow 1 egress (mean 51.25 Mbps)
  - Flow 2 ingress (mean 51.86 Mbps)
  - Flow 2 egress (mean 39.69 Mbps)
  - Flow 3 ingress (mean 55.18 Mbps)
  - Flow 3 egress (mean 41.30 Mbps)

- **Per packet one way delay (ms)** vs **Time (s)**
  - Flow 1 (95th percentile 28.57 ms)
  - Flow 2 (95th percentile 31.67 ms)
  - Flow 3 (95th percentile 31.84 ms)
Run 8: Statistics of FillP

Start at: 2018-02-03 04:28:58
End at: 2018-02-03 04:29:28
Local clock offset: 0.592 ms
Remote clock offset: -19.945 ms

# Below is generated by plot.py at 2018-02-03 06:26:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.71 Mbit/s
95th percentile per-packet one-way delay: 31.506 ms
Loss rate: 19.10%
-- Flow 1:
Average throughput: 50.77 Mbit/s
95th percentile per-packet one-way delay: 29.264 ms
Loss rate: 13.89%
-- Flow 2:
Average throughput: 42.73 Mbit/s
95th percentile per-packet one-way delay: 32.649 ms
Loss rate: 23.89%
-- Flow 3:
Average throughput: 38.33 Mbit/s
95th percentile per-packet one-way delay: 32.666 ms
Loss rate: 26.64%
Run 8: Report of FillP — Data Link
Run 9: Statistics of FillP

Start at: 2018-02-03 04:51:01
End at: 2018-02-03 04:51:31
Local clock offset: 1.025 ms
Remote clock offset: -19.641 ms

# Below is generated by plot.py at 2018-02-03 06:27:27
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 91.54 Mbit/s
  95th percentile per-packet one-way delay: 31.852 ms
  Loss rate: 17.29%
-- Flow 1:
  Average throughput: 50.85 Mbit/s
  95th percentile per-packet one-way delay: 30.124 ms
  Loss rate: 13.25%
-- Flow 2:
  Average throughput: 39.41 Mbit/s
  95th percentile per-packet one-way delay: 32.746 ms
  Loss rate: 20.39%
-- Flow 3:
  Average throughput: 43.64 Mbit/s
  95th percentile per-packet one-way delay: 33.220 ms
  Loss rate: 24.34%
Run 9: Report of FillP — Data Link

![Graph of throughput and packet delay over time. The top graph shows throughput in Mbps over time for different flows (1 ingress, 1 egress, 2 ingress, 2 egress, 3 ingress, 3 egress) with mean values provided. The bottom graph shows packet delay in milliseconds over time for different flows (1 95th percentile 30.12 ms, 2 95th percentile 32.75 ms, 3 95th percentile 33.22 ms).]
Run 10: Statistics of FillP

Start at: 2018-02-03 05:14:18
End at: 2018-02-03 05:14:48
Local clock offset: 1.38 ms
Remote clock offset: -23.478 ms

# Below is generated by plot.py at 2018-02-03 06:27:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.69 Mbit/s
95th percentile per-packet one-way delay: 31.504 ms
Loss rate: 19.37%
-- Flow 1:
Average throughput: 50.23 Mbit/s
95th percentile per-packet one-way delay: 29.405 ms
Loss rate: 14.47%
-- Flow 2:
Average throughput: 42.88 Mbit/s
95th percentile per-packet one-way delay: 32.382 ms
Loss rate: 24.15%
-- Flow 3:
Average throughput: 38.81 Mbit/s
95th percentile per-packet one-way delay: 32.460 ms
Loss rate: 25.82%
Run 10: Report of FillP — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 58.79 Mbps)
- Flow 1 egress (mean 50.23 Mbps)
- Flow 2 ingress (mean 56.62 Mbps)
- Flow 2 egress (mean 42.88 Mbps)
- Flow 3 ingress (mean 52.34 Mbps)
- Flow 3 egress (mean 38.81 Mbps)

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

- Flow 1 (95th percentile 29.41 ms)
- Flow 2 (95th percentile 32.38 ms)
- Flow 3 (95th percentile 32.46 ms)
Run 1: Statistics of Indigo-1-32

Start at: 2018-02-03 01:53:40
End at: 2018-02-03 01:54:10
Local clock offset: -3.057 ms
Remote clock offset: -19.64 ms

# Below is generated by plot.py at 2018-02-03 06:27:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.19 Mbit/s
95th percentile per-packet one-way delay: 5.397 ms
Loss rate: 1.95%
-- Flow 1:
Average throughput: 54.43 Mbit/s
95th percentile per-packet one-way delay: 4.450 ms
Loss rate: 1.71%
-- Flow 2:
Average throughput: 38.40 Mbit/s
95th percentile per-packet one-way delay: 5.488 ms
Loss rate: 1.70%
-- Flow 3:
Average throughput: 49.86 Mbit/s
95th percentile per-packet one-way delay: 6.243 ms
Loss rate: 3.10%
Run 1: Report of Indigo-1-32 — Data Link

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

Throughput (Mbps): Graph showing the throughput (Mbps) over time for different flows. The x-axis represents time in seconds, while the y-axis represents throughput in Mbps. Different colors indicate different flows, with each flow having a different mean throughput. The graph demonstrates the stability and fluctuation in throughput over time.

Per-packet one-way delay (ms): Graph showing the per-packet one-way delay (ms) over time for different flows. The x-axis represents time in seconds, while the y-axis represents delay in milliseconds. Different colors indicate different flows, with each flow having a different 95th percentile delay. The graph highlights the variability and consistency in delay over time.

Legend:
- Flow 1 ingress (mean 55.39 Mbps)
- Flow 1 egress (mean 54.43 Mbps)
- Flow 2 ingress (mean 39.07 Mbps)
- Flow 2 egress (mean 38.40 Mbps)
- Flow 3 ingress (mean 51.46 Mbps)
- Flow 3 egress (mean 49.86 Mbps)
Run 2: Statistics of Indigo-1-32

Start at: 2018-02-03 02:15:40
End at: 2018-02-03 02:16:10
Local clock offset: -1.006 ms
Remote clock offset: -20.254 ms

# Below is generated by plot.py at 2018-02-03 06:27:42
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 96.76 Mbit/s
  95th percentile per-packet one-way delay: 3.609 ms
  Loss rate: 0.94%
-- Flow 1:
  Average throughput: 57.54 Mbit/s
  95th percentile per-packet one-way delay: 3.434 ms
  Loss rate: 1.11%
-- Flow 2:
  Average throughput: 36.04 Mbit/s
  95th percentile per-packet one-way delay: 4.025 ms
  Loss rate: 0.92%
-- Flow 3:
  Average throughput: 46.83 Mbit/s
  95th percentile per-packet one-way delay: 4.671 ms
  Loss rate: 0.30%
Run 2: Report of Indigo-1-32 — Data Link
Run 3: Statistics of Indigo-1-32

Start at: 2018-02-03 02:37:47  
End at: 2018-02-03 02:38:17  
Local clock offset: -1.09 ms  
Remote clock offset: -20.418 ms

# Below is generated by plot.py at 2018-02-03 06:27:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.98 Mbit/s  
95th percentile per-packet one-way delay: 4.548 ms  
Loss rate: 0.31%  
-- Flow 1:  
Average throughput: 48.85 Mbit/s  
95th percentile per-packet one-way delay: 3.027 ms  
Loss rate: 0.41%  
-- Flow 2:  
Average throughput: 44.47 Mbit/s  
95th percentile per-packet one-way delay: 4.871 ms  
Loss rate: 0.18%  
-- Flow 3:  
Average throughput: 56.83 Mbit/s  
95th percentile per-packet one-way delay: 5.885 ms  
Loss rate: 0.23%
Run 3: Report of Indigo-1-32 — Data Link

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

Legend:
- Flow 1 ingress (mean 49.07 Mbit/s)
- Flow 1 egress (mean 48.85 Mbit/s)
- Flow 2 ingress (mean 44.56 Mbit/s)
- Flow 2 egress (mean 44.47 Mbit/s)
- Flow 3 ingress (mean 56.98 Mbit/s)
- Flow 3 egress (mean 56.83 Mbit/s)
Run 4: Statistics of Indigo-1-32

Start at: 2018-02-03 03:00:19
End at: 2018-02-03 03:00:49
Local clock offset: 0.49 ms
Remote clock offset: -18.955 ms

# Below is generated by plot.py at 2018-02-03 06:27:42
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 95.23 Mbit/s
  95th percentile per-packet one-way delay: 3.489 ms
  Loss rate: 1.70%
-- Flow 1:
  Average throughput: 52.96 Mbit/s
  95th percentile per-packet one-way delay: 3.272 ms
  Loss rate: 2.28%
-- Flow 2:
  Average throughput: 38.45 Mbit/s
  95th percentile per-packet one-way delay: 3.882 ms
  Loss rate: 1.02%
-- Flow 3:
  Average throughput: 51.27 Mbit/s
  95th percentile per-packet one-way delay: 4.696 ms
  Loss rate: 0.83%
Run 4: Report of Indigo-1-32 — Data Link
Run 5: Statistics of Indigo-1-32

Start at: 2018-02-03 03:22:53
End at: 2018-02-03 03:23:23
Local clock offset: -1.767 ms
Remote clock offset: -20.197 ms

# Below is generated by plot.py at 2018-02-03 06:27:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.82 Mbit/s
95th percentile per-packet one-way delay: 3.638 ms
Loss rate: 2.49%
-- Flow 1:
Average throughput: 53.20 Mbit/s
95th percentile per-packet one-way delay: 1.605 ms
Loss rate: 3.23%
-- Flow 2:
Average throughput: 42.18 Mbit/s
95th percentile per-packet one-way delay: 4.486 ms
Loss rate: 1.71%
-- Flow 3:
Average throughput: 41.75 Mbit/s
95th percentile per-packet one-way delay: 6.227 ms
Loss rate: 1.12%
Run 5: Report of Indigo-1-32 — Data Link

Diagram 1: Throughput (Mbit/s) over Time (s)

Diagram 2: Per-packet one-way delay (ms) over Time (s)

Key:
- Flow 1 ingress (mean 54.98 Mbit/s)
- Flow 1 egress (mean 53.20 Mbit/s)
- Flow 2 ingress (mean 42.92 Mbit/s)
- Flow 2 egress (mean 42.18 Mbit/s)
- Flow 3 ingress (mean 42.22 Mbit/s)
- Flow 3 egress (mean 41.75 Mbit/s)
Run 6: Statistics of Indigo-1-32

Start at: 2018-02-03 03:46:15  
End at: 2018-02-03 03:46:45  
Local clock offset: -0.094 ms  
Remote clock offset: -19.641 ms

# Below is generated by plot.py at 2018-02-03 06:27:57  
# Datalink statistics

-- Total of 3 flows:
Average throughput: 96.65 Mbit/s  
95th percentile per-packet one-way delay: 3.540 ms  
Loss rate: 1.15%

-- Flow 1:
Average throughput: 55.25 Mbit/s  
95th percentile per-packet one-way delay: 3.319 ms  
Loss rate: 1.22%

-- Flow 2:
Average throughput: 37.39 Mbit/s  
95th percentile per-packet one-way delay: 4.493 ms  
Loss rate: 1.42%

-- Flow 3:
Average throughput: 50.79 Mbit/s  
95th percentile per-packet one-way delay: 5.538 ms  
Loss rate: 0.52%
Run 6: Report of Indigo-1-32 — Data Link

Throughput (Mb/s)

Time (s)

Flow 1 ingress (mean 55.94 Mb/s)
Flow 1 egress (mean 55.25 Mb/s)
Flow 2 ingress (mean 37.93 Mb/s)
Flow 2 egress (mean 37.39 Mb/s)
Flow 3 ingress (mean 51.87 Mb/s)
Flow 3 egress (mean 50.79 Mb/s)

Per-packet one-way delay (ms)

Time (s)

• Flow 1 (95th percentile 3.32 ms)
• Flow 2 (95th percentile 4.49 ms)
• Flow 3 (95th percentile 5.54 ms)
Run 7: Statistics of Indigo-1-32

Start at: 2018-02-03 04:09:07
End at: 2018-02-03 04:09:37
Local clock offset: 1.414 ms
Remote clock offset: -19.107 ms

# Below is generated by plot.py at 2018-02-03 06:28:02
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 96.86 Mbit/s
  95th percentile per-packet one-way delay: 1.679 ms
  Loss rate: 0.61%
-- Flow 1:
  Average throughput: 55.52 Mbit/s
  95th percentile per-packet one-way delay: 1.592 ms
  Loss rate: 0.74%
-- Flow 2:
  Average throughput: 41.31 Mbit/s
  95th percentile per-packet one-way delay: 2.368 ms
  Loss rate: 0.50%
-- Flow 3:
  Average throughput: 42.68 Mbit/s
  95th percentile per-packet one-way delay: 3.618 ms
  Loss rate: 0.33%
Run 7: Report of Indigo-1-32 — Data Link
Run 8: Statistics of Indigo-1-32

Start at: 2018-02-03 04:31:29
End at: 2018-02-03 04:31:59
Local clock offset: 2.49 ms
Remote clock offset: -19.443 ms

# Below is generated by plot.py at 2018-02-03 06:28:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.62 Mbit/s
95th percentile per-packet one-way delay: 2.160 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 50.07 Mbit/s
95th percentile per-packet one-way delay: 1.883 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 37.32 Mbit/s
95th percentile per-packet one-way delay: 2.270 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 51.26 Mbit/s
95th percentile per-packet one-way delay: 3.103 ms
Loss rate: 0.09%
Run 8: Report of Indigo-1-32 — Data Link

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

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

- Flow 1 ingress (mean 50.29 Mbit/s)
- Flow 1 egress (mean 50.67 Mbit/s)
- Flow 2 ingress (mean 37.73 Mbit/s)
- Flow 2 egress (mean 37.32 Mbit/s)
- Flow 3 ingress (mean 51.32 Mbit/s)
- Flow 3 egress (mean 51.26 Mbit/s)

- Flow 1 (95th percentile 1.88 ms)
- Flow 2 (95th percentile 2.27 ms)
- Flow 3 (95th percentile 3.10 ms)
Run 9: Statistics of Indigo-1-32

Start at: 2018-02-03 04:53:43  
End at: 2018-02-03 04:54:13  
Local clock offset: 1.155 ms  
Remote clock offset: -20.43 ms

# Below is generated by plot.py at 2018-02-03 06:28:04  
# Datalink statistics  
-- Total of 3 flows:  
  Average throughput: 95.81 Mbit/s  
  95th percentile per-packet one-way delay: 2.289 ms  
  Loss rate: 1.43%  
-- Flow 1:  
  Average throughput: 55.93 Mbit/s  
  95th percentile per-packet one-way delay: 1.968 ms  
  Loss rate: 1.33%  
-- Flow 2:  
  Average throughput: 44.51 Mbit/s  
  95th percentile per-packet one-way delay: 2.993 ms  
  Loss rate: 1.40%  
-- Flow 3:  
  Average throughput: 31.65 Mbit/s  
  95th percentile per-packet one-way delay: 3.291 ms  
  Loss rate: 2.07%
Run 9: Report of Indigo-1-32 — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 56.70 Mbit/s)
Flow 1 egress (mean 55.93 Mbit/s)
Flow 2 ingress (mean 45.14 Mbit/s)
Flow 2 egress (mean 44.51 Mbit/s)
Flow 3 ingress (mean 32.33 Mbit/s)
Flow 3 egress (mean 31.65 Mbit/s)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 1.97 ms)
Flow 2 (95th percentile 2.99 ms)
Flow 3 (95th percentile 3.29 ms)
Run 10: Statistics of Indigo-1-32

Start at: 2018-02-03 05:16:50
End at: 2018-02-03 05:17:20
Local clock offset: 0.696 ms
Remote clock offset: -23.126 ms

# Below is generated by plot.py at 2018-02-03 06:28:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.82 Mbit/s
95th percentile per-packet one-way delay: 5.564 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 54.38 Mbit/s
95th percentile per-packet one-way delay: 4.630 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 38.89 Mbit/s
95th percentile per-packet one-way delay: 5.682 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 50.98 Mbit/s
95th percentile per-packet one-way delay: 6.699 ms
Loss rate: 0.20%
Run 10: Report of Indigo-1-32 — Data Link

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

Start at: 2018-02-03 01:52:24
End at: 2018-02-03 01:52:54
Local clock offset: -4.462 ms
Remote clock offset: -20.495 ms

# Below is generated by plot.py at 2018-02-03 06:28:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.07 Mbit/s
95th percentile per-packet one-way delay: 0.666 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 59.87 Mbit/s
95th percentile per-packet one-way delay: 0.320 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 29.95 Mbit/s
95th percentile per-packet one-way delay: 0.226 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 19.14 Mbit/s
95th percentile per-packet one-way delay: 1.818 ms
Loss rate: 0.06%
Run 1: Report of Vivace-latency — Data Link

![Graph showing throughput and latency over time for different flows with various mean rates and 95th percentile delays.]

- Flow 1 ingress (mean 60.28 Mbit/s)
- Flow 1 egress (mean 59.87 Mbit/s)
- Flow 2 ingress (mean 30.03 Mbit/s)
- Flow 2 egress (mean 29.95 Mbit/s)
- Flow 3 ingress (mean 19.17 Mbit/s)
- Flow 3 egress (mean 19.14 Mbit/s)
Run 2: Statistics of Vivace-latency

Start at: 2018-02-03 02:14:27
End at: 2018-02-03 02:14:57
Local clock offset: -2.249 ms
Remote clock offset: -18.462 ms

# Below is generated by plot.py at 2018-02-03 06:28:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.53 Mbit/s
95th percentile per-packet one-way delay: -1.135 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 56.81 Mbit/s
95th percentile per-packet one-way delay: -1.168 ms
Loss rate: 0.95%
-- Flow 2:
Average throughput: 36.80 Mbit/s
95th percentile per-packet one-way delay: -1.176 ms
Loss rate: 1.22%
-- Flow 3:
Average throughput: 15.97 Mbit/s
95th percentile per-packet one-way delay: -0.753 ms
Loss rate: 1.83%
Run 2: Report of Vivace-latency — Data Link
Run 3: Statistics of Vivace-latency

Start at: 2018-02-03 02:36:31
End at: 2018-02-03 02:37:01
Local clock offset: -1.905 ms
Remote clock offset: -19.851 ms

# Below is generated by plot.py at 2018-02-03 06:29:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.93 Mbit/s
95th percentile per-packet one-way delay: 1.916 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 58.67 Mbit/s
95th percentile per-packet one-way delay: 1.056 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 35.86 Mbit/s
95th percentile per-packet one-way delay: 2.258 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 19.49 Mbit/s
95th percentile per-packet one-way delay: 5.572 ms
Loss rate: 0.30%
Run 3: Report of Vivace-latency — Data Link
Run 4: Statistics of Vivace-latency

Start at: 2018-02-03 02:59:00
End at: 2018-02-03 02:59:30
Local clock offset: -2.235 ms
Remote clock offset: -20.24 ms

# Below is generated by plot.py at 2018-02-03 06:29:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.99 Mbit/s
95th percentile per-packet one-way delay: 0.015 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 63.48 Mbit/s
95th percentile per-packet one-way delay: -0.870 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 29.08 Mbit/s
95th percentile per-packet one-way delay: 0.801 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 15.70 Mbit/s
95th percentile per-packet one-way delay: 15.031 ms
Loss rate: 0.38%
Run 4: Report of Vivace-latency — Data Link

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

- Flow 1 ingress (mean 63.75 Mbit/s)
- Flow 1 egress (mean 63.48 Mbit/s)
- Flow 2 ingress (mean 29.18 Mbit/s)
- Flow 2 egress (mean 29.08 Mbit/s)
- Flow 3 ingress (mean 15.76 Mbit/s)
- Flow 3 egress (mean 15.70 Mbit/s)

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

- Flow 1 (95th percentile -0.87 ms)
- Flow 2 (95th percentile 0.80 ms)
- Flow 3 (95th percentile 15.03 ms)
Run 5: Statistics of Vivace-latency

Start at: 2018-02-03 03:21:34
End at: 2018-02-03 03:22:04
Local clock offset: 1.115 ms
Remote clock offset: -19.641 ms

# Below is generated by plot.py at 2018-02-03 06:29:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.87 Mbit/s
95th percentile per-packet one-way delay: -4.495 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 61.43 Mbit/s
95th percentile per-packet one-way delay: -5.000 ms
Loss rate: 1.39%
-- Flow 2:
Average throughput: 33.01 Mbit/s
95th percentile per-packet one-way delay: -3.980 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 13.71 Mbit/s
95th percentile per-packet one-way delay: -3.224 ms
Loss rate: 0.99%
Run 5: Report of Vivace-latency — Data Link

[Graph showing throughput and per-packet one-way delay over time for different data flows]
Run 6: Statistics of Vivace-latency

Start at: 2018-02-03 03:44:53
End at: 2018-02-03 03:45:23
Local clock offset: 2.109 ms
Remote clock offset: -20.363 ms

# Below is generated by plot.py at 2018-02-03 06:29:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.53 Mbit/s
95th percentile per-packet one-way delay: -2.368 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 60.05 Mbit/s
95th percentile per-packet one-way delay: -5.301 ms
Loss rate: 1.07%
-- Flow 2:
Average throughput: 31.97 Mbit/s
95th percentile per-packet one-way delay: 2.146 ms
Loss rate: 1.45%
-- Flow 3:
Average throughput: 18.89 Mbit/s
95th percentile per-packet one-way delay: 2.858 ms
Loss rate: 2.40%
Run 6: Report of Vivace-latency — Data Link
Run 7: Statistics of Vivace-latency

Start at: 2018-02-03 04:07:53
End at: 2018-02-03 04:08:23
Local clock offset: -2.209 ms
Remote clock offset: -20.202 ms

# Below is generated by plot.py at 2018-02-03 06:29:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.49 Mbit/s
95th percentile per-packet one-way delay: 0.546 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 60.00 Mbit/s
95th percentile per-packet one-way delay: 0.386 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 33.04 Mbit/s
95th percentile per-packet one-way delay: 0.968 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 19.82 Mbit/s
95th percentile per-packet one-way delay: 0.452 ms
Loss rate: 0.27%
Run 7: Report of Vivace-latency — Data Link
Run 8: Statistics of Vivace-latency

Start at: 2018-02-03 04:30:16
End at: 2018-02-03 04:30:46
Local clock offset: 3.508 ms
Remote clock offset: -22.58 ms

# Below is generated by plot.py at 2018-02-03 06:29:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.44 Mbit/s
95th percentile per-packet one-way delay: -6.413 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 52.77 Mbit/s
95th percentile per-packet one-way delay: -5.775 ms
Loss rate: 0.91%
-- Flow 2:
Average throughput: 34.46 Mbit/s
95th percentile per-packet one-way delay: -7.003 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 23.55 Mbit/s
95th percentile per-packet one-way delay: -7.524 ms
Loss rate: 0.12%
Run 8: Report of Vivace-latency — Data Link

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

**Throughput (Mbps):**
- Flow 1 ingress (mean 53.26 Mbps)
- Flow 1 egress (mean 52.77 Mbps)
- Flow 2 ingress (mean 34.52 Mbps)
- Flow 2 egress (mean 34.46 Mbps)
- Flow 3 ingress (mean 23.59 Mbps)
- Flow 3 egress (mean 23.55 Mbps)

**Per-packet one-way delay (ms):**
- Flow 1 (95th percentile 5.78 ms)
- Flow 2 (95th percentile 7.00 ms)
- Flow 3 (95th percentile 7.52 ms)
Run 9: Statistics of Vivace-latency

Start at: 2018-02-03 04:52:23
End at: 2018-02-03 04:52:53
Local clock offset: 1.282 ms
Remote clock offset: -19.971 ms

# Below is generated by plot.py at 2018-02-03 06:30:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.31 Mbit/s
95th percentile per-packet one-way delay: -2.002 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 64.10 Mbit/s
95th percentile per-packet one-way delay: -2.665 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 28.04 Mbit/s
95th percentile per-packet one-way delay: -0.276 ms
Loss rate: 1.23%
-- Flow 3:
Average throughput: 16.90 Mbit/s
95th percentile per-packet one-way delay: 2.499 ms
Loss rate: 1.76%
Run 9: Report of Vivace-latency — Data Link

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

- Flow 1 ingress (mean 64.39 Mbit/s)
- Flow 1 egress (mean 64.10 Mbit/s)
- Flow 2 ingress (mean 28.40 Mbit/s)
- Flow 2 egress (mean 26.04 Mbit/s)
- Flow 3 ingress (mean 17.20 Mbit/s)
- Flow 3 egress (mean 16.90 Mbit/s)
Run 10: Statistics of Vivace-latency

Start at: 2018-02-03 05:15:36
End at: 2018-02-03 05:16:06
Local clock offset: -0.325 ms
Remote clock offset: -25.387 ms

# Below is generated by plot.py at 2018-02-03 06:30:12
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 76.13 Mbit/s
  95th percentile per-packet one-way delay: 0.025 ms
  Loss rate: 0.22%
-- Flow 1:
  Average throughput: 56.17 Mbit/s
  95th percentile per-packet one-way delay: -1.634 ms
  Loss rate: 0.21%
-- Flow 2:
  Average throughput: 19.11 Mbit/s
  95th percentile per-packet one-way delay: 1.508 ms
  Loss rate: 0.27%
-- Flow 3:
  Average throughput: 22.05 Mbit/s
  95th percentile per-packet one-way delay: 2.770 ms
  Loss rate: 0.25%
Run 10: Report of Vivace-latency — Data Link

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

- Flow 1 ingress (mean 56.31 Mbit/s)
- Flow 1 egress (mean 56.17 Mbit/s)
- Flow 2 ingress (mean 19.16 Mbit/s)
- Flow 2 egress (mean 19.11 Mbit/s)
- Flow 3 ingress (mean 22.11 Mbit/s)
- Flow 3 egress (mean 22.05 Mbit/s)
Run 1: Statistics of Vivace-loss

Start at: 2018-02-03 02:08:28
End at: 2018-02-03 02:08:58
Local clock offset: 0.548 ms
Remote clock offset: -21.785 ms

# Below is generated by plot.py at 2018-02-03 06:30:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.68 Mbit/s
95th percentile per-packet one-way delay: 24.188 ms
Loss rate: 9.43%
-- Flow 1:
Average throughput: 54.26 Mbit/s
95th percentile per-packet one-way delay: 24.190 ms
Loss rate: 9.35%
-- Flow 2:
Average throughput: 24.39 Mbit/s
95th percentile per-packet one-way delay: 24.661 ms
Loss rate: 9.29%
-- Flow 3:
Average throughput: 30.95 Mbit/s
95th percentile per-packet one-way delay: 23.236 ms
Loss rate: 10.02%
Run 1: Report of Vivace-loss — Data Link

The data shows a comparison of throughput and per packet one-way delay for different flows over time. The throughput graphs indicate variations in data transfer speeds, with peaks and troughs suggesting fluctuations in network performance. Similarly, the per packet one-way delay graphs show the latency experienced during data transmission, highlighting the variability in delay across different time intervals.

Flow 1 ingress (mean 59.86 Mbit/s) and Flow 1 egress (mean 54.26 Mbit/s) show a higher throughput compared to Flows 2 and 3. Flow 2 ingress (mean 26.89 Mbit/s) and Flow 2 egress (mean 24.39 Mbit/s), along with Flow 3 ingress (mean 34.36 Mbit/s) and Flow 3 egress (mean 30.95 Mbit/s), exhibit lower throughput values.

The per packet one-way delay data reveals that Flow 1 has a 95th percentile delay of 24.19 ms, while Flows 2 and 3 have delays of 24.66 ms and 23.24 ms, respectively. These delays suggest that Flow 1 experiences slightly more delay compared to flows 2 and 3.
Run 2: Statistics of Vivace-loss

Start at: 2018-02-03 02:30:24
End at: 2018-02-03 02:30:54
Local clock offset: 0.979 ms
Remote clock offset: -20.469 ms

# Below is generated by plot.py at 2018-02-03 06:30:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.12 Mbit/s
95th percentile per-packet one-way delay: 27.267 ms
Loss rate: 13.33%
-- Flow 1:
Average throughput: 59.41 Mbit/s
95th percentile per-packet one-way delay: 27.330 ms
Loss rate: 13.48%
-- Flow 2:
Average throughput: 41.20 Mbit/s
95th percentile per-packet one-way delay: 27.149 ms
Loss rate: 13.04%
-- Flow 3:
Average throughput: 4.01 Mbit/s
95th percentile per-packet one-way delay: 26.580 ms
Loss rate: 12.69%
Run 2: Report of Vivace-loss — Data Link

![Graph showing throughput and packet loss over time for different flows with various mean rates.]

Legend:
- Flow 1 ingress (mean 68.67 Mbit/s)
- Flow 1 egress (mean 59.41 Mbit/s)
- Flow 2 ingress (mean 47.38 Mbit/s)
- Flow 2 egress (mean 41.20 Mbit/s)
- Flow 3 ingress (mean 4.59 Mbit/s)
- Flow 3 egress (mean 4.61 Mbit/s)
Run 3: Statistics of Vivace-loss

Start at: 2018-02-03 02:52:56
End at: 2018-02-03 02:53:26
Local clock offset: 1.85 ms
Remote clock offset: -20.407 ms

# Below is generated by plot.py at 2018-02-03 06:30:47
# Datalink statistics
-- Total of 3 flows:
 Average throughput: 83.88 Mbit/s
 95th percentile per-packet one-way delay: 24.467 ms
 Loss rate: 10.27%
-- Flow 1:
 Average throughput: 53.32 Mbit/s
 95th percentile per-packet one-way delay: 24.007 ms
 Loss rate: 9.26%
-- Flow 2:
 Average throughput: 35.44 Mbit/s
 95th percentile per-packet one-way delay: 24.370 ms
 Loss rate: 11.36%
-- Flow 3:
 Average throughput: 21.17 Mbit/s
 95th percentile per-packet one-way delay: 26.466 ms
 Loss rate: 13.98%
Run 3: Report of Vivace-loss — Data Link
Run 4: Statistics of Vivace-loss

Start at: 2018-02-03 03:15:24
End at: 2018-02-03 03:15:54
Local clock offset: 2.23 ms
Remote clock offset: -20.387 ms

# Below is generated by plot.py at 2018-02-03 06:30:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.56 Mbit/s
95th percentile per-packet one-way delay: 23.829 ms
Loss rate: 10.08%
-- Flow 1:
Average throughput: 58.19 Mbit/s
95th percentile per-packet one-way delay: 24.321 ms
Loss rate: 10.15%
-- Flow 2:
Average throughput: 31.86 Mbit/s
95th percentile per-packet one-way delay: 22.757 ms
Loss rate: 10.21%
-- Flow 3:
Average throughput: 12.71 Mbit/s
95th percentile per-packet one-way delay: 20.115 ms
Loss rate: 8.41%
Run 4: Report of Vivace-loss — Data Link

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

![Graph 2: Per-packet one-way delay (ms) vs Time (s)]
Run 5: Statistics of Vivace-loss

Start at: 2018-02-03 03:38:50
End at: 2018-02-03 03:39:20
Local clock offset: -1.18 ms
Remote clock offset: -22.302 ms

# Below is generated by plot.py at 2018-02-03 06:30:48
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 84.40 Mbit/s
  95th percentile per-packet one-way delay: 24.647 ms
  Loss rate: 9.00%
-- Flow 1:
  Average throughput: 52.07 Mbit/s
  95th percentile per-packet one-way delay: 24.582 ms
  Loss rate: 8.31%
-- Flow 2:
  Average throughput: 25.15 Mbit/s
  95th percentile per-packet one-way delay: 25.030 ms
  Loss rate: 9.11%
-- Flow 3:
  Average throughput: 47.52 Mbit/s
  95th percentile per-packet one-way delay: 24.558 ms
  Loss rate: 11.10%
Run 5: Report of Vivace-loss — Data Link
Run 6: Statistics of Vivace-loss

Start at: 2018-02-03 04:01:52
End at: 2018-02-03 04:02:22
Local clock offset: -0.97 ms
Remote clock offset: -19.304 ms

# Below is generated by plot.py at 2018-02-03 06:30:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.31 Mbit/s
95th percentile per-packet one-way delay: 28.889 ms
Loss rate: 9.88%
-- Flow 1:
Average throughput: 55.64 Mbit/s
95th percentile per-packet one-way delay: 28.629 ms
Loss rate: 9.40%
-- Flow 2:
Average throughput: 26.50 Mbit/s
95th percentile per-packet one-way delay: 28.791 ms
Loss rate: 9.96%
-- Flow 3:
Average throughput: 33.44 Mbit/s
95th percentile per-packet one-way delay: 29.900 ms
Loss rate: 12.06%
Run 6: Report of Vivace-loss — Data Link
Run 7: Statistics of Vivace-loss

Start at: 2018-02-03 04:24:15
End at: 2018-02-03 04:24:45
Local clock offset: 4.003 ms
Remote clock offset: -19.74 ms

# Below is generated by plot.py at 2018-02-03 06:31:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.39 Mbit/s
95th percentile per-packet one-way delay: 24.613 ms
Loss rate: 10.51%
-- Flow 1:
Average throughput: 65.93 Mbit/s
95th percentile per-packet one-way delay: 24.836 ms
Loss rate: 10.59%
-- Flow 2:
Average throughput: 23.17 Mbit/s
95th percentile per-packet one-way delay: 23.508 ms
Loss rate: 10.03%
-- Flow 3:
Average throughput: 6.23 Mbit/s
95th percentile per-packet one-way delay: 23.791 ms
Loss rate: 11.47%
Run 7: Report of Vivace-loss — Data Link
Run 8: Statistics of Vivace-loss

Start at: 2018-02-03 04:46:15
End at: 2018-02-03 04:46:45
Local clock offset: 1.136 ms
Remote clock offset: -22.549 ms

# Below is generated by plot.py at 2018-02-03 06:31:33
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 84.40 Mbit/s
  95th percentile per-packet one-way delay: 23.724 ms
  Loss rate: 7.34%
-- Flow 1:
  Average throughput: 48.06 Mbit/s
  95th percentile per-packet one-way delay: 23.952 ms
  Loss rate: 7.39%
-- Flow 2:
  Average throughput: 46.38 Mbit/s
  95th percentile per-packet one-way delay: 23.327 ms
  Loss rate: 7.36%
-- Flow 3:
  Average throughput: 16.67 Mbit/s
  95th percentile per-packet one-way delay: 23.344 ms
  Loss rate: 6.75%
Run 8: Report of Vivace-loss — Data Link

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

**Throughput (Mbps)**
- Flow 1 ingress (mean 51.93 Mbps)
- Flow 1 egress (mean 48.06 Mbps)
- Flow 2 ingress (mean 50.14 Mbps)
- Flow 2 egress (mean 46.38 Mbps)
- Flow 3 ingress (mean 17.01 Mbps)
- Flow 3 egress (mean 16.67 Mbps)

**Packet Error Rate (ms)**
- Flow 1 (95th percentile 23.95 ms)
- Flow 2 (95th percentile 23.33 ms)
- Flow 3 (95th percentile 23.34 ms)
Run 9: Statistics of Vivace-loss

Start at: 2018-02-03 05:09:02
End at: 2018-02-03 05:09:32
Local clock offset: 1.315 ms
Remote clock offset: -23.409 ms

# Below is generated by plot.py at 2018-02-03 06:31:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.81 Mbit/s
95th percentile per-packet one-way delay: 28.573 ms
Loss rate: 10.00%
-- Flow 1:
Average throughput: 54.67 Mbit/s
95th percentile per-packet one-way delay: 28.713 ms
Loss rate: 10.54%
-- Flow 2:
Average throughput: 30.36 Mbit/s
95th percentile per-packet one-way delay: 27.699 ms
Loss rate: 8.66%
-- Flow 3:
Average throughput: 30.23 Mbit/s
95th percentile per-packet one-way delay: 28.540 ms
Loss rate: 9.74%
Run 9: Report of Vivace-loss — Data Link
Run 10: Statistics of Vivace-loss

Start at: 2018-02-03 05:31:47
End at: 2018-02-03 05:32:17
Local clock offset: -1.787 ms
Remote clock offset: -22.672 ms

# Below is generated by plot.py at 2018-02-03 06:32:07
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 84.78 Mbit/s
  95th percentile per-packet one-way delay: 31.909 ms
  Loss rate: 11.37%
-- Flow 1:
  Average throughput: 53.37 Mbit/s
  95th percentile per-packet one-way delay: 31.301 ms
  Loss rate: 10.00%
-- Flow 2:
  Average throughput: 23.70 Mbit/s
  95th percentile per-packet one-way delay: 31.485 ms
  Loss rate: 12.80%
-- Flow 3:
  Average throughput: 47.57 Mbit/s
  95th percentile per-packet one-way delay: 33.792 ms
  Loss rate: 14.41%
Run 10: Report of Vivace-loss — Data Link
Run 1: Statistics of Vivace-LTE

Start at: 2018-02-03 01:56:05
End at: 2018-02-03 01:56:35
Local clock offset: -0.758 ms
Remote clock offset: -19.223 ms

# Below is generated by plot.py at 2018-02-03 06:32:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.96 Mbit/s
95th percentile per-packet one-way delay: 27.212 ms
Loss rate: 3.03%
-- Flow 1:
Average throughput: 57.80 Mbit/s
95th percentile per-packet one-way delay: 24.287 ms
Loss rate: 2.82%
-- Flow 2:
Average throughput: 35.15 Mbit/s
95th percentile per-packet one-way delay: 29.423 ms
Loss rate: 3.06%
-- Flow 3:
Average throughput: 17.59 Mbit/s
95th percentile per-packet one-way delay: 29.812 ms
Loss rate: 5.02%
Run 1: Report of Vivace-LTE — Data Link

[Data Link Diagram]

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 59.47 Mbps)
Flow 2 ingress (mean 36.26 Mbps)
Flow 3 ingress (mean 18.50 Mbps)
Flow 1 egress (mean 57.80 Mbps)
Flow 2 egress (mean 35.15 Mbps)
Flow 3 egress (mean 17.59 Mbps)

Per packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 24.29 ms)
Flow 2 (95th percentile 29.42 ms)
Flow 3 (95th percentile 29.81 ms)
Run 2: Statistics of Vivace-LTE

Start at: 2018-02-03 02:18:03
End at: 2018-02-03 02:18:33
Local clock offset: 1.401 ms
Remote clock offset: -18.86 ms

# Below is generated by plot.py at 2018-02-03 06:32:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.62 Mbit/s
95th percentile per-packet one-way delay: 22.543 ms
Loss rate: 3.26%

-- Flow 1:
Average throughput: 63.06 Mbit/s
95th percentile per-packet one-way delay: 19.570 ms
Loss rate: 3.02%

-- Flow 2:
Average throughput: 25.38 Mbit/s
95th percentile per-packet one-way delay: 26.484 ms
Loss rate: 3.98%

-- Flow 3:
Average throughput: 17.33 Mbit/s
95th percentile per-packet one-way delay: 23.495 ms
Loss rate: 3.81%
Run 2: Report of Vivace-LTE — Data Link

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

- **Flow 1** ( ingress: mean 65.02 Mbit/s, egress: mean 63.06 Mbit/s)
- **Flow 2** ( ingress: mean 26.43 Mbit/s, egress: mean 25.38 Mbit/s)
- **Flow 3** ( ingress: mean 17.96 Mbit/s, egress: mean 17.33 Mbit/s)

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

- **Flow 1** (95th percentile 19.57 ms)
- **Flow 2** (95th percentile 26.48 ms)
- **Flow 3** (95th percentile 23.50 ms)
Run 3: Statistics of Vivace-LTE

Start at: 2018-02-03 02:40:15
End at: 2018-02-03 02:40:45
Local clock offset: -1.13 ms
Remote clock offset: -20.451 ms

# Below is generated by plot.py at 2018-02-03 06:32:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.80 Mbit/s
95th percentile per-packet one-way delay: 26.382 ms
Loss rate: 2.32%
-- Flow 1:
Average throughput: 58.30 Mbit/s
95th percentile per-packet one-way delay: 24.533 ms
Loss rate: 2.00%
-- Flow 2:
Average throughput: 27.95 Mbit/s
95th percentile per-packet one-way delay: 28.722 ms
Loss rate: 2.84%
-- Flow 3:
Average throughput: 24.08 Mbit/s
95th percentile per-packet one-way delay: 29.135 ms
Loss rate: 3.40%
Run 3: Report of Vivace-LTE — Data Link

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

- Flow 1 ingress (mean 59.49 Mbit/s)
- Flow 1 egress (mean 58.30 Mbit/s)
- Flow 2 ingress (mean 28.77 Mbit/s)
- Flow 2 egress (mean 27.95 Mbit/s)
- Flow 3 ingress (mean 24.87 Mbit/s)
- Flow 3 egress (mean 24.08 Mbit/s)

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

- Flow 1 (99th percentile 24.53 ms)
- Flow 2 (95th percentile 28.72 ms)
- Flow 3 (95th percentile 29.14 ms)
Run 4: Statistics of Vivace-LTE

Start at: 2018-02-03 03:02:48
End at: 2018-02-03 03:03:18
Local clock offset: -0.429 ms
Remote clock offset: -20.639 ms

# Below is generated by plot.py at 2018-02-03 06:32:11
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 86.76 Mbit/s
  95th percentile per-packet one-way delay: 25.594 ms
  Loss rate: 2.26%
-- Flow 1:
  Average throughput: 58.95 Mbit/s
  95th percentile per-packet one-way delay: 24.543 ms
  Loss rate: 2.06%
-- Flow 2:
  Average throughput: 32.09 Mbit/s
  95th percentile per-packet one-way delay: 27.232 ms
  Loss rate: 2.48%
-- Flow 3:
  Average throughput: 19.61 Mbit/s
  95th percentile per-packet one-way delay: 28.122 ms
  Loss rate: 3.39%
Run 4: Report of Vivace-LTE — Data Link

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The upper graph represents throughput over time, with different lines indicating different data flows. The lower graph shows the per-packet one-way delay over time.

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The throughput measurements are as follows:
- Flow 1 ingress (mean 60.19 Mbit/s)
- Flow 1 egress (mean 58.95 Mbit/s)
- Flow 2 ingress (mean 32.90 Mbit/s)
- Flow 2 egress (mean 32.09 Mbit/s)
- Flow 3 ingress (mean 20.30 Mbit/s)
- Flow 3 egress (mean 19.61 Mbit/s)

The per-packet one-way delay measurements are:
- Flow 1 (99th percentile 24.54 ms)
- Flow 2 (99th percentile 27.23 ms)
- Flow 3 (99th percentile 28.12 ms)
Run 5: Statistics of Vivace-LTE

Start at: 2018-02-03 03:25:27
End at: 2018-02-03 03:25:57
Local clock offset: -0.319 ms
Remote clock offset: -26.27 ms

# Below is generated by plot.py at 2018-02-03 06:32:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.06 Mbit/s
95th percentile per-packet one-way delay: 18.216 ms
Loss rate: 2.83%
-- Flow 1:
Average throughput: 61.31 Mbit/s
95th percentile per-packet one-way delay: 17.073 ms
Loss rate: 2.60%
-- Flow 2:
Average throughput: 19.02 Mbit/s
95th percentile per-packet one-way delay: 21.648 ms
Loss rate: 3.69%
-- Flow 3:
Average throughput: 36.82 Mbit/s
95th percentile per-packet one-way delay: 19.633 ms
Loss rate: 3.10%
Run 5: Report of Vivace-LTE — Data Link

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**Throughput (Mbps)**

- **Flow 1 ingress** (mean 63.03 Mbps)
- **Flow 1 egress** (mean 61.31 Mbps)
- **Flow 2 ingress** (mean 19.78 Mbps)
- **Flow 2 egress** (mean 19.02 Mbps)
- **Flow 3 ingress** (mean 37.97 Mbps)
- **Flow 3 egress** (mean 36.82 Mbps)

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

- **Flow 1** (95th percentile 17.07 ms)
- **Flow 2** (95th percentile 21.65 ms)
- **Flow 3** (95th percentile 19.63 ms)
Run 6: Statistics of Vivace-LTE

Start at: 2018-02-03 03:48:49
End at: 2018-02-03 03:49:19
Local clock offset: -0.358 ms
Remote clock offset: -18.947 ms

# Below is generated by plot.py at 2018-02-03 06:32:45
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 88.67 Mbit/s
  95th percentile per-packet one-way delay: 25.291 ms
  Loss rate: 2.15%
-- Flow 1:
  Average throughput: 56.84 Mbit/s
  95th percentile per-packet one-way delay: 21.904 ms
  Loss rate: 2.07%
-- Flow 2:
  Average throughput: 32.94 Mbit/s
  95th percentile per-packet one-way delay: 27.702 ms
  Loss rate: 2.04%
-- Flow 3:
  Average throughput: 30.17 Mbit/s
  95th percentile per-packet one-way delay: 30.720 ms
  Loss rate: 2.92%
Run 7: Statistics of Vivace-LTE

Start at: 2018-02-03 04:11:37
End at: 2018-02-03 04:12:07
Local clock offset: 0.799 ms
Remote clock offset: -20.376 ms

# Below is generated by plot.py at 2018-02-03 06:32:45
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 81.90 Mbit/s
  95th percentile per-packet one-way delay: 25.370 ms
  Loss rate: 3.42%
-- Flow 1:
  Average throughput: 48.29 Mbit/s
  95th percentile per-packet one-way delay: 22.610 ms
  Loss rate: 3.26%
-- Flow 2:
  Average throughput: 36.70 Mbit/s
  95th percentile per-packet one-way delay: 26.930 ms
  Loss rate: 3.58%
-- Flow 3:
  Average throughput: 27.80 Mbit/s
  95th percentile per-packet one-way delay: 27.397 ms
  Loss rate: 3.87%
Run 7: Report of Vivace-LTE — Data Link
Run 8: Statistics of Vivace-LTE

Start at: 2018-02-03 04:33:52
End at: 2018-02-03 04:34:22
Local clock offset: 0.836 ms
Remote clock offset: -20.545 ms

# Below is generated by plot.py at 2018-02-03 06:32:58
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 87.13 Mbit/s
  95th percentile per-packet one-way delay: 22.806 ms
  Loss rate: 1.39%
-- Flow 1:
  Average throughput: 64.60 Mbit/s
  95th percentile per-packet one-way delay: 20.821 ms
  Loss rate: 1.35%
-- Flow 2:
  Average throughput: 23.15 Mbit/s
  95th percentile per-packet one-way delay: 25.973 ms
  Loss rate: 1.22%
-- Flow 3:
  Average throughput: 21.69 Mbit/s
  95th percentile per-packet one-way delay: 29.402 ms
  Loss rate: 2.14%
Run 9: Statistics of Vivace-LTE

Start at: 2018-02-03 04:56:12
End at: 2018-02-03 04:56:42
Local clock offset: 1.001 ms
Remote clock offset: -20.553 ms

# Below is generated by plot.py at 2018-02-03 06:32:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.08 Mbit/s
95th percentile per-packet one-way delay: 27.320 ms
Loss rate: 2.56%
-- Flow 1:
Average throughput: 60.74 Mbit/s
95th percentile per-packet one-way delay: 25.974 ms
Loss rate: 2.43%
-- Flow 2:
Average throughput: 28.49 Mbit/s
95th percentile per-packet one-way delay: 28.581 ms
Loss rate: 2.75%
-- Flow 3:
Average throughput: 16.38 Mbit/s
95th percentile per-packet one-way delay: 30.521 ms
Loss rate: 3.42%
Run 9: Report of Vivace-LTE — Data Link

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

![Graph 2: Per-packet one-way delay (ms)]
Run 10: Statistics of Vivace-LTE

Start at: 2018-02-03 05:19:22
End at: 2018-02-03 05:19:52
Local clock offset: 0.561 ms
Remote clock offset: -23.669 ms

# Below is generated by plot.py at 2018-02-03 06:32:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.82 Mbit/s
95th percentile per-packet one-way delay: 29.644 ms
Loss rate: 2.17%
-- Flow 1:
Average throughput: 55.77 Mbit/s
95th percentile per-packet one-way delay: 28.496 ms
Loss rate: 1.91%
-- Flow 2:
Average throughput: 34.31 Mbit/s
95th percentile per-packet one-way delay: 31.071 ms
Loss rate: 2.53%
-- Flow 3:
Average throughput: 19.01 Mbit/s
95th percentile per-packet one-way delay: 29.973 ms
Loss rate: 3.12%
Run 10: Report of Vivace-LTE — Data Link

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

- Flow 1 ingress (mean 56.86 Mbit/s)
- Flow 1 egress (mean 55.77 Mbit/s)
- Flow 2 ingress (mean 35.21 Mbit/s)
- Flow 2 egress (mean 34.31 Mbit/s)
- Flow 3 ingress (mean 19.56 Mbit/s)
- Flow 3 egress (mean 19.01 Mbit/s)

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

- Flow 1 (95th percentile 28.50 ms)
- Flow 2 (95th percentile 31.07 ms)
- Flow 3 (95th percentile 29.97 ms)