

Pantheon Report

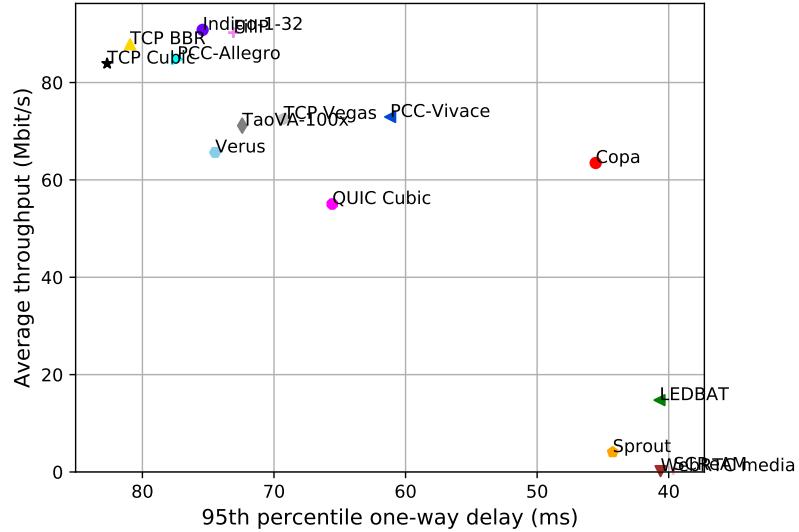
Generated at 2018-04-25 00:59:38 (UTC).
Data path: China Ethernet (*remote*) → AWS Korea Ethernet (*local*).
Repeated the test of 16 congestion control schemes 10 times.
Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).
NTP offsets were measured against `ntp.nict.jp` and have been applied to correct the timestamps in logs.

Git summary:

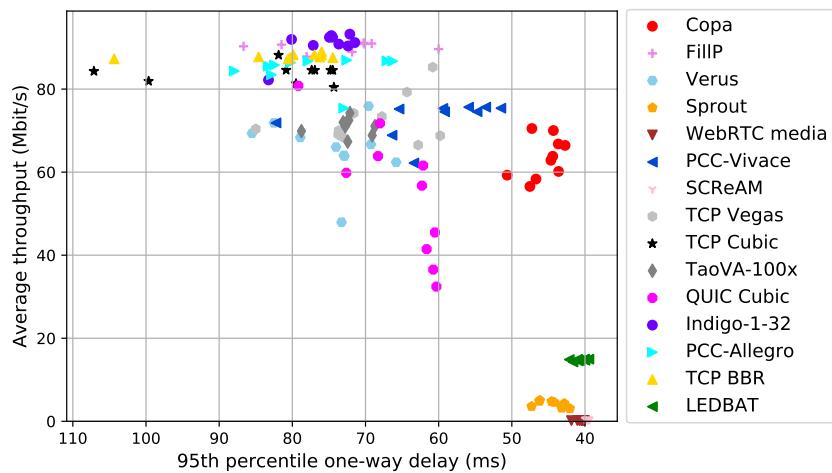
```
branch: master @ 114e807ac1bad7b85168ceb1f8a969063ee6c12c
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 11f8c46a2bf1dc797253db7e8ca04076272b2a44
third_party/genericCC @ d223989828276fa83a807da6e0341dc0c7b89aec
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  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 @ f271183af822eee5d0031620f4bebf38aedc5581

test from China Ethernet to AWS Korea Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



test from China Ethernet to AWS Korea Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows

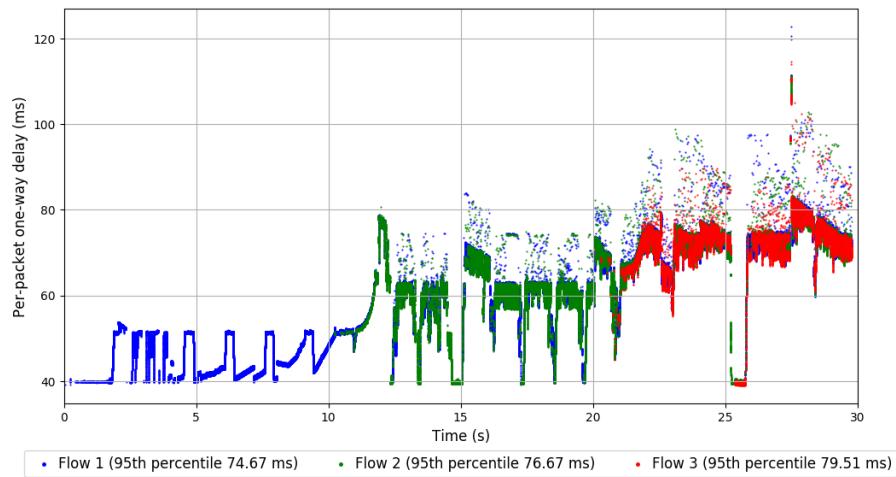
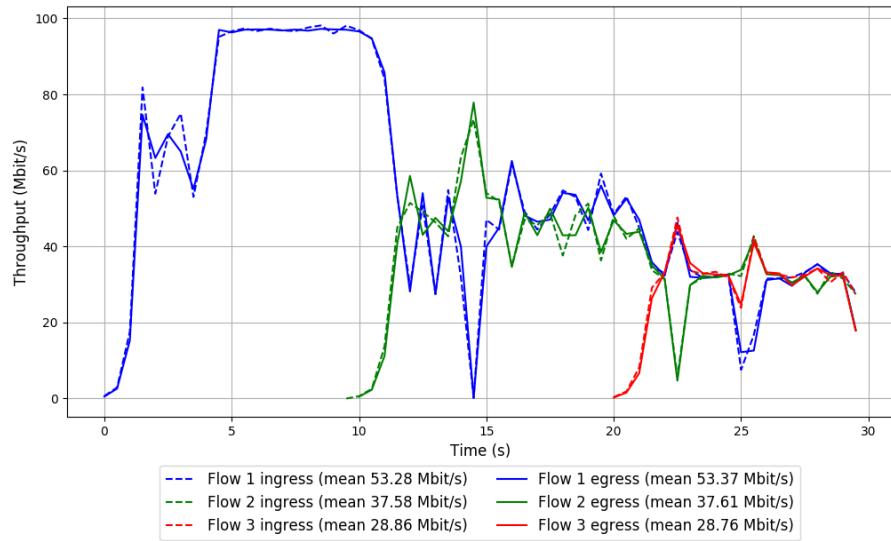


Run 1: Statistics of TCP BBR

```
Start at: 2018-04-24 17:14:46
End at: 2018-04-24 17:15:16
Local clock offset: -1.348 ms
Remote clock offset: -5.874 ms

# Below is generated by plot.py at 2018-04-25 00:40:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.71 Mbit/s
95th percentile per-packet one-way delay: 76.249 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 53.37 Mbit/s
95th percentile per-packet one-way delay: 74.665 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 37.61 Mbit/s
95th percentile per-packet one-way delay: 76.673 ms
Loss rate: 0.97%
-- Flow 3:
Average throughput: 28.76 Mbit/s
95th percentile per-packet one-way delay: 79.506 ms
Loss rate: 2.72%
```

Run 1: Report of TCP BBR — Data Link

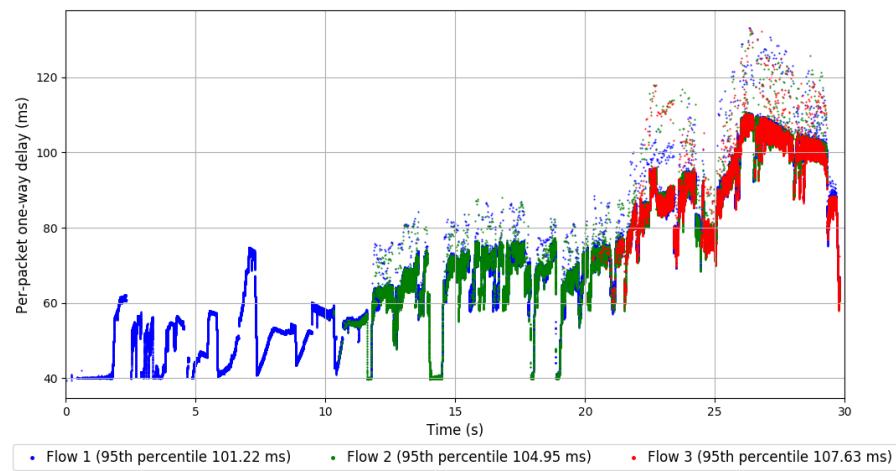
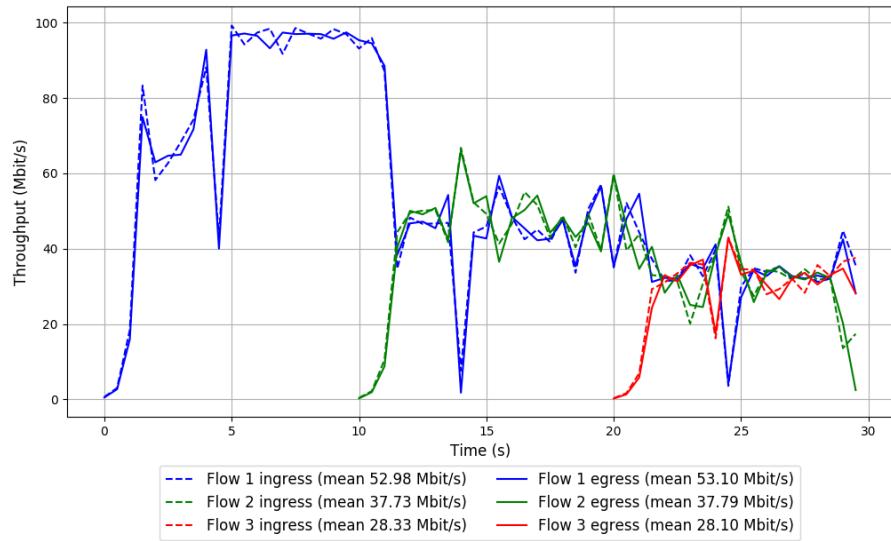


Run 2: Statistics of TCP BBR

```
Start at: 2018-04-24 17:37:39
End at: 2018-04-24 17:38:09
Local clock offset: -1.784 ms
Remote clock offset: -3.271 ms

# Below is generated by plot.py at 2018-04-25 00:41:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.27 Mbit/s
95th percentile per-packet one-way delay: 104.351 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 53.10 Mbit/s
95th percentile per-packet one-way delay: 101.224 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 37.79 Mbit/s
95th percentile per-packet one-way delay: 104.951 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 28.10 Mbit/s
95th percentile per-packet one-way delay: 107.632 ms
Loss rate: 3.12%
```

Run 2: Report of TCP BBR — Data Link

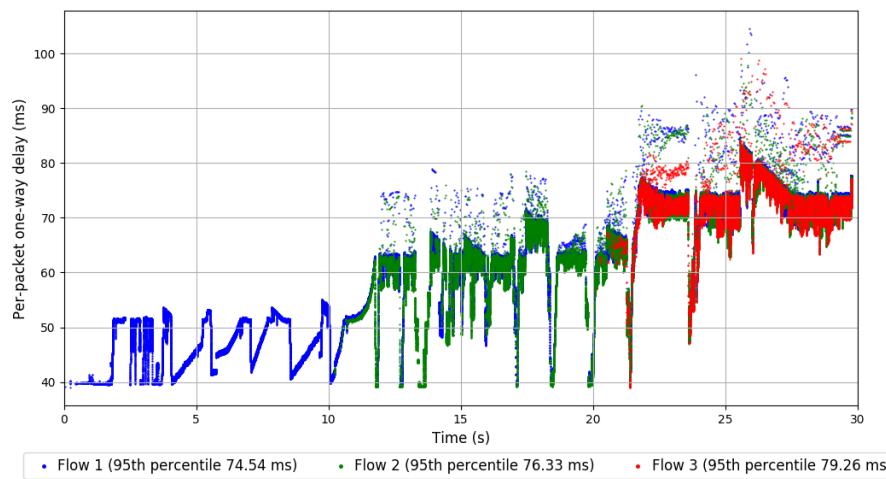
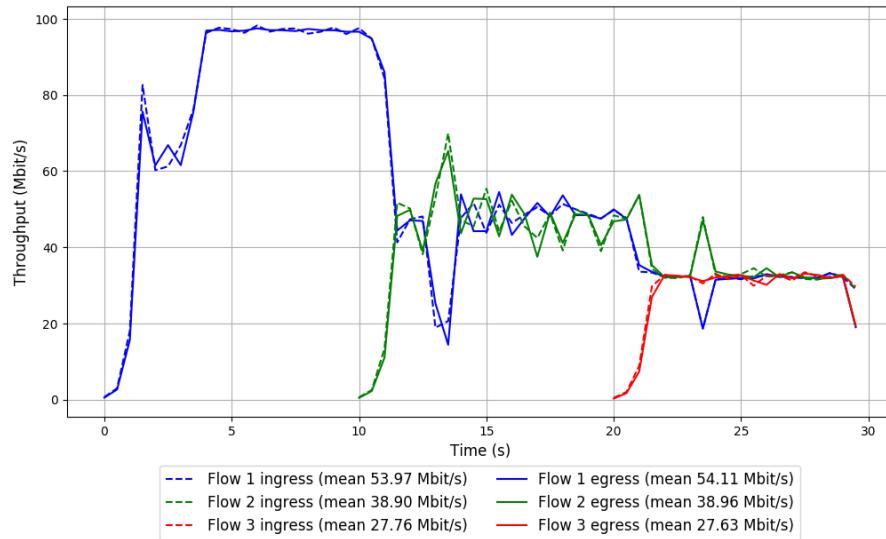


Run 3: Statistics of TCP BBR

```
Start at: 2018-04-24 18:00:44
End at: 2018-04-24 18:01:14
Local clock offset: -5.917 ms
Remote clock offset: -2.15 ms

# Below is generated by plot.py at 2018-04-25 00:41:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.99 Mbit/s
95th percentile per-packet one-way delay: 75.986 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 54.11 Mbit/s
95th percentile per-packet one-way delay: 74.543 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 38.96 Mbit/s
95th percentile per-packet one-way delay: 76.331 ms
Loss rate: 0.96%
-- Flow 3:
Average throughput: 27.63 Mbit/s
95th percentile per-packet one-way delay: 79.259 ms
Loss rate: 2.74%
```

Run 3: Report of TCP BBR — Data Link

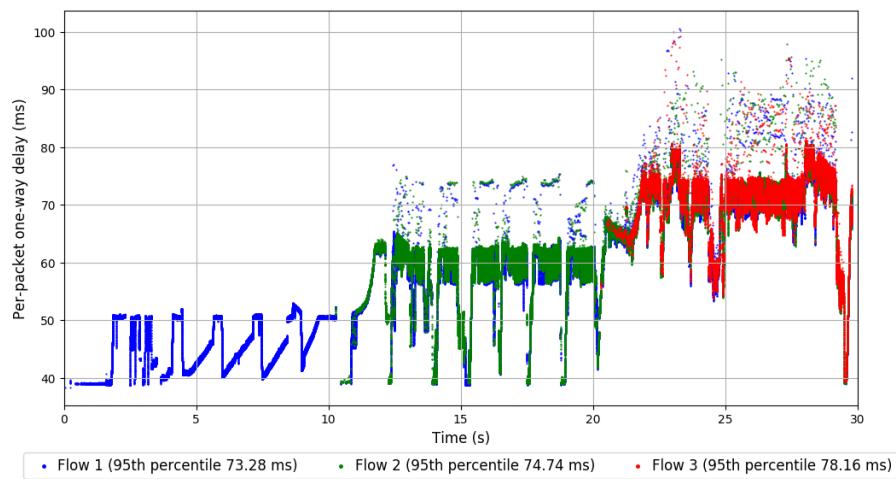
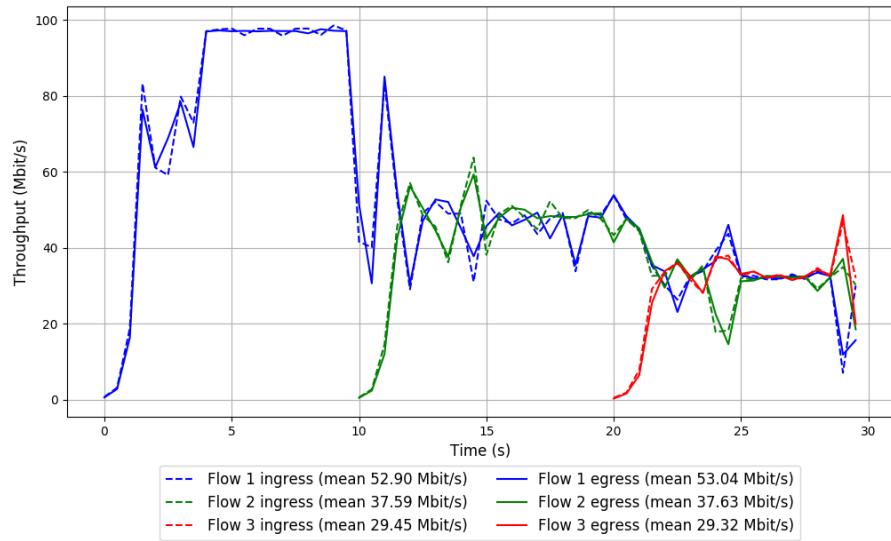


Run 4: Statistics of TCP BBR

```
Start at: 2018-04-24 18:23:37
End at: 2018-04-24 18:24:07
Local clock offset: -1.613 ms
Remote clock offset: -1.304 ms

# Below is generated by plot.py at 2018-04-25 00:41:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.57 Mbit/s
95th percentile per-packet one-way delay: 74.459 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 53.04 Mbit/s
95th percentile per-packet one-way delay: 73.282 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 37.63 Mbit/s
95th percentile per-packet one-way delay: 74.742 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 29.32 Mbit/s
95th percentile per-packet one-way delay: 78.155 ms
Loss rate: 2.53%
```

Run 4: Report of TCP BBR — Data Link

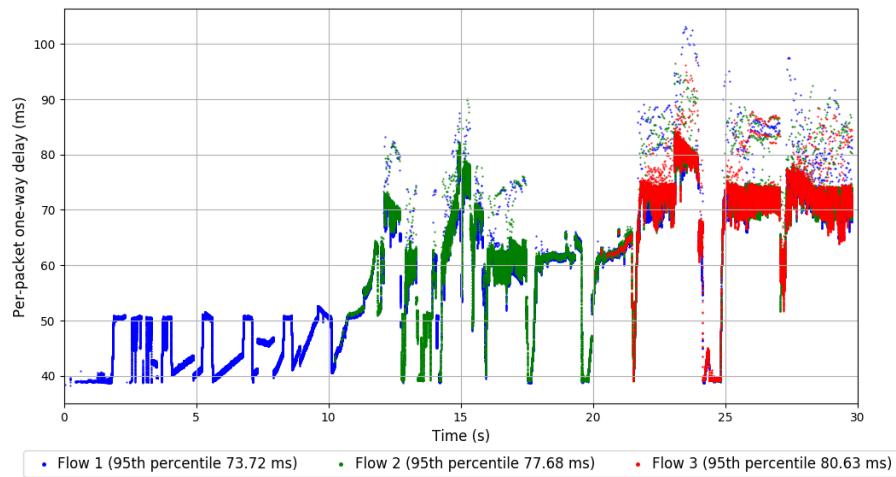
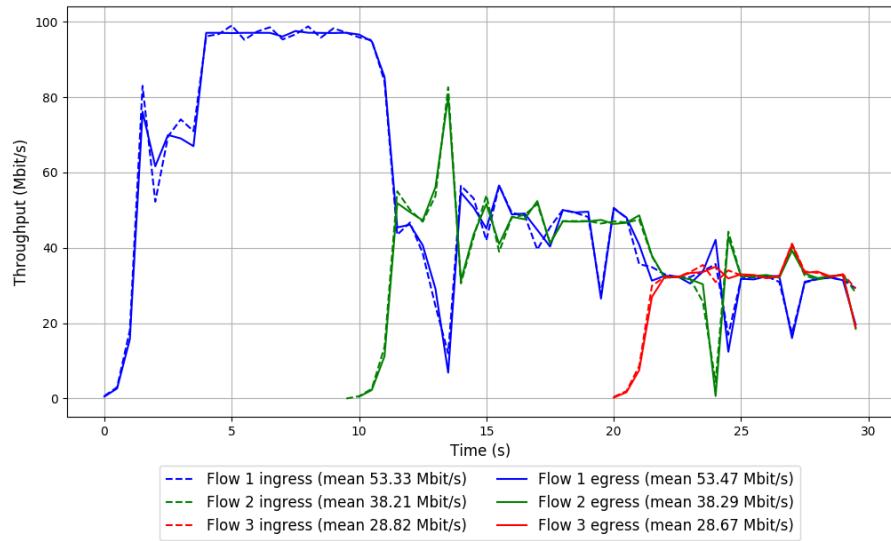


Run 5: Statistics of TCP BBR

```
Start at: 2018-04-24 18:46:30
End at: 2018-04-24 18:47:01
Local clock offset: 0.474 ms
Remote clock offset: -1.438 ms

# Below is generated by plot.py at 2018-04-25 00:41:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.22 Mbit/s
95th percentile per-packet one-way delay: 75.998 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 53.47 Mbit/s
95th percentile per-packet one-way delay: 73.715 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 38.29 Mbit/s
95th percentile per-packet one-way delay: 77.681 ms
Loss rate: 0.92%
-- Flow 3:
Average throughput: 28.67 Mbit/s
95th percentile per-packet one-way delay: 80.634 ms
Loss rate: 2.64%
```

Run 5: Report of TCP BBR — Data Link

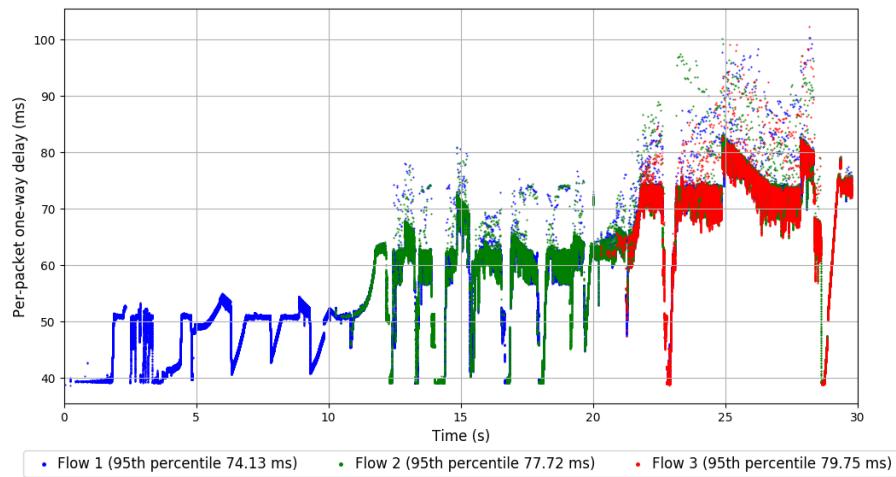
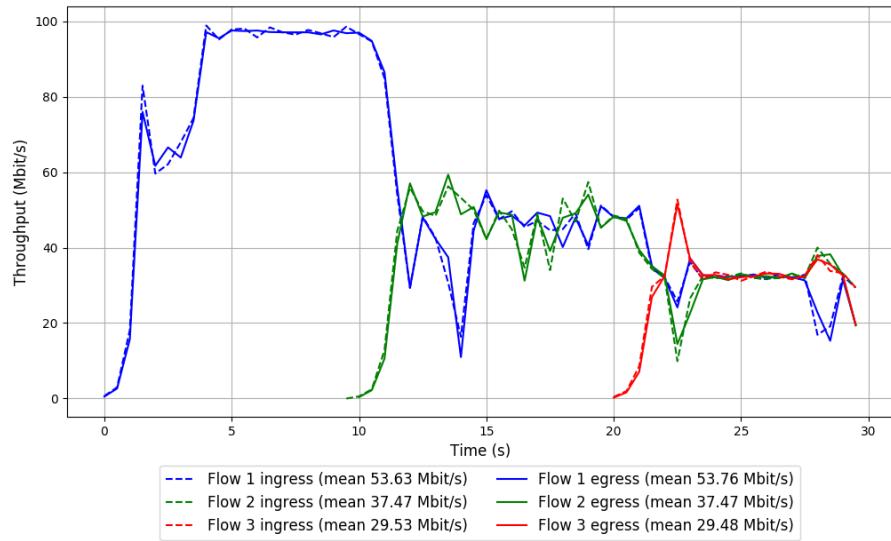


Run 6: Statistics of TCP BBR

```
Start at: 2018-04-24 19:09:25
End at: 2018-04-24 19:09:55
Local clock offset: 3.057 ms
Remote clock offset: -1.651 ms

# Below is generated by plot.py at 2018-04-25 00:41:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.26 Mbit/s
95th percentile per-packet one-way delay: 76.972 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 53.76 Mbit/s
95th percentile per-packet one-way delay: 74.130 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 37.47 Mbit/s
95th percentile per-packet one-way delay: 77.722 ms
Loss rate: 1.12%
-- Flow 3:
Average throughput: 29.48 Mbit/s
95th percentile per-packet one-way delay: 79.753 ms
Loss rate: 2.50%
```

Run 6: Report of TCP BBR — Data Link

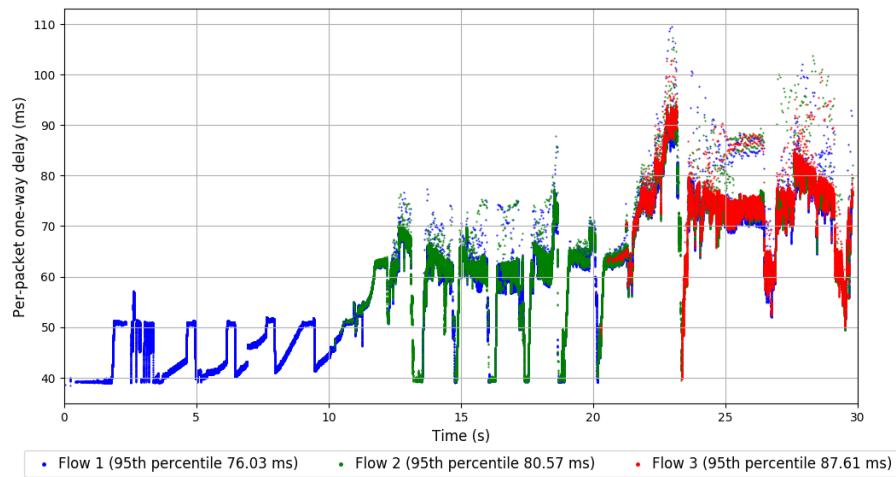
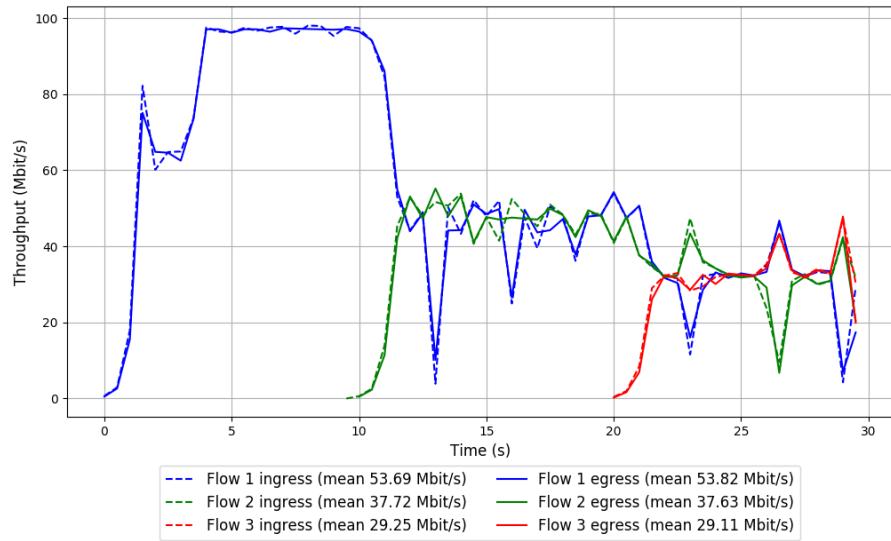


Run 7: Statistics of TCP BBR

```
Start at: 2018-04-24 19:32:15
End at: 2018-04-24 19:32:45
Local clock offset: -1.714 ms
Remote clock offset: -0.927 ms

# Below is generated by plot.py at 2018-04-25 00:41:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.29 Mbit/s
95th percentile per-packet one-way delay: 79.870 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 53.82 Mbit/s
95th percentile per-packet one-way delay: 76.031 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 37.63 Mbit/s
95th percentile per-packet one-way delay: 80.566 ms
Loss rate: 1.25%
-- Flow 3:
Average throughput: 29.11 Mbit/s
95th percentile per-packet one-way delay: 87.607 ms
Loss rate: 2.68%
```

Run 7: Report of TCP BBR — Data Link

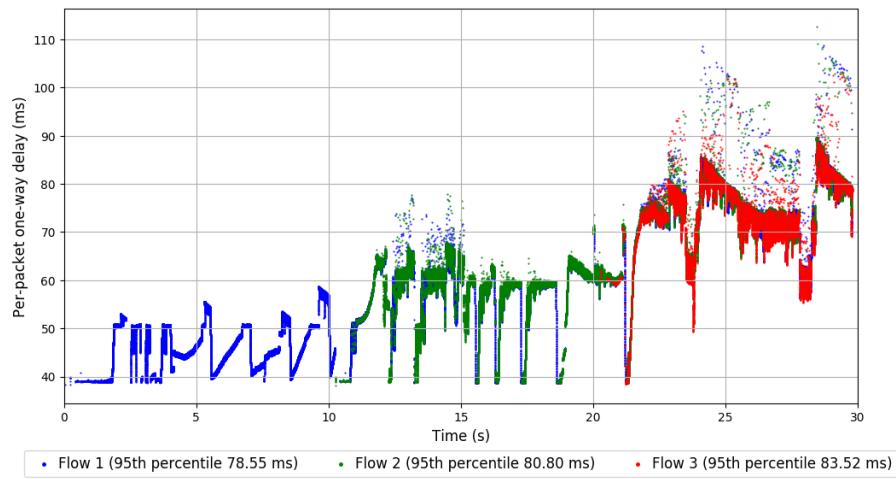
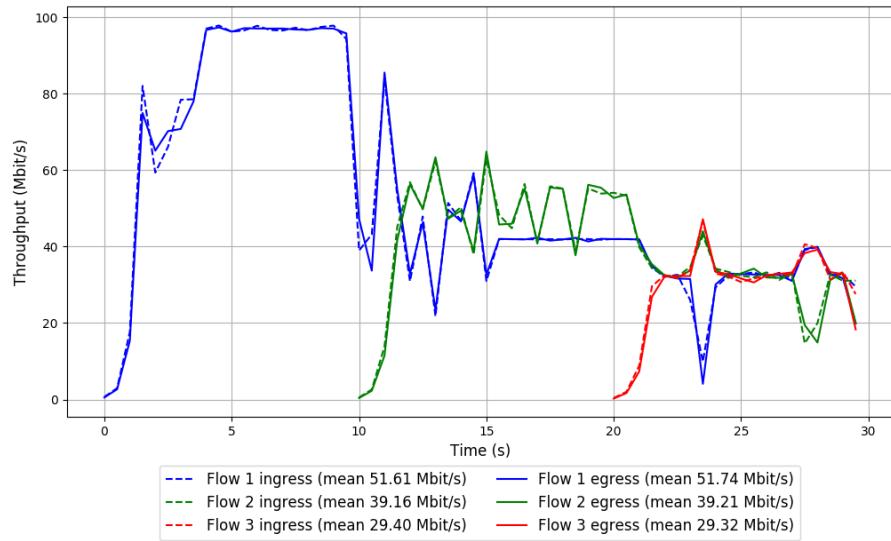


Run 8: Statistics of TCP BBR

```
Start at: 2018-04-24 19:55:06
End at: 2018-04-24 19:55:36
Local clock offset: -0.76 ms
Remote clock offset: -0.753 ms

# Below is generated by plot.py at 2018-04-25 00:41:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.26 Mbit/s
95th percentile per-packet one-way delay: 80.571 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 51.74 Mbit/s
95th percentile per-packet one-way delay: 78.547 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 39.21 Mbit/s
95th percentile per-packet one-way delay: 80.799 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 29.32 Mbit/s
95th percentile per-packet one-way delay: 83.521 ms
Loss rate: 2.47%
```

Run 8: Report of TCP BBR — Data Link

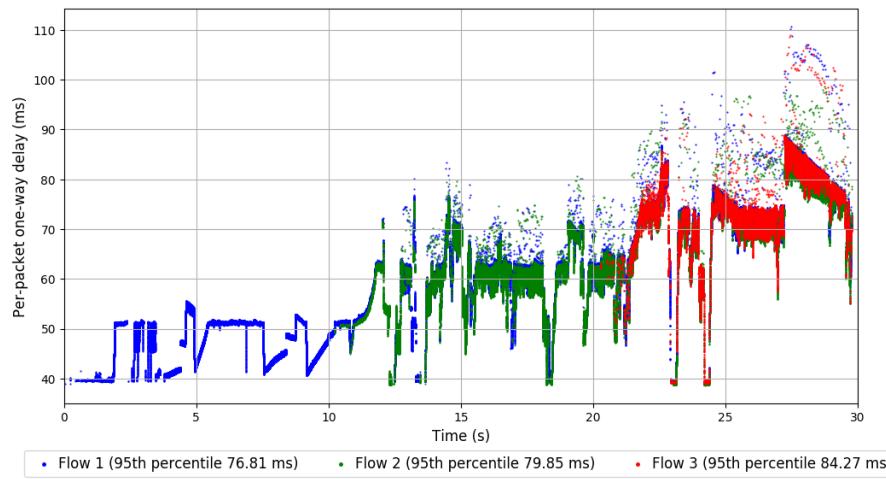
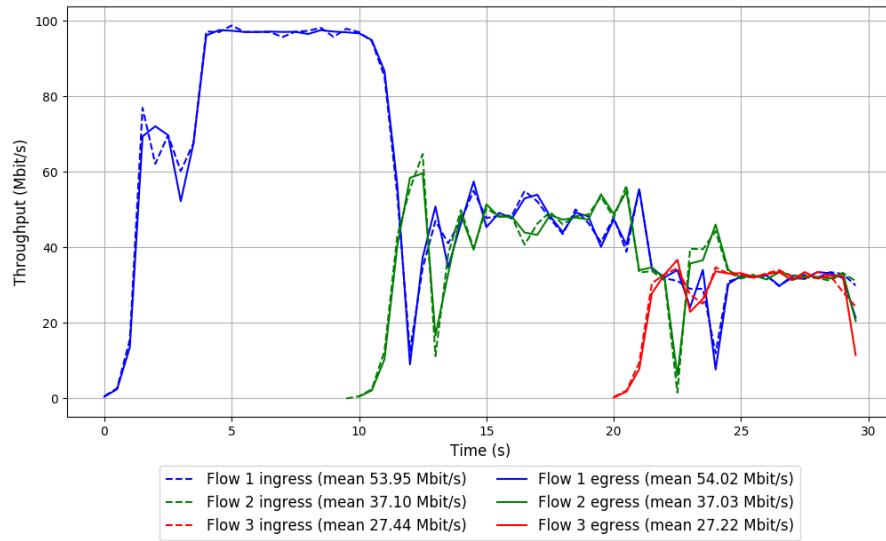


Run 9: Statistics of TCP BBR

```
Start at: 2018-04-24 20:18:13
End at: 2018-04-24 20:18:43
Local clock offset: 5.081 ms
Remote clock offset: -0.719 ms

# Below is generated by plot.py at 2018-04-25 00:42:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.48 Mbit/s
95th percentile per-packet one-way delay: 80.326 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 54.02 Mbit/s
95th percentile per-packet one-way delay: 76.815 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 37.03 Mbit/s
95th percentile per-packet one-way delay: 79.848 ms
Loss rate: 1.15%
-- Flow 3:
Average throughput: 27.22 Mbit/s
95th percentile per-packet one-way delay: 84.268 ms
Loss rate: 3.07%
```

Run 9: Report of TCP BBR — Data Link

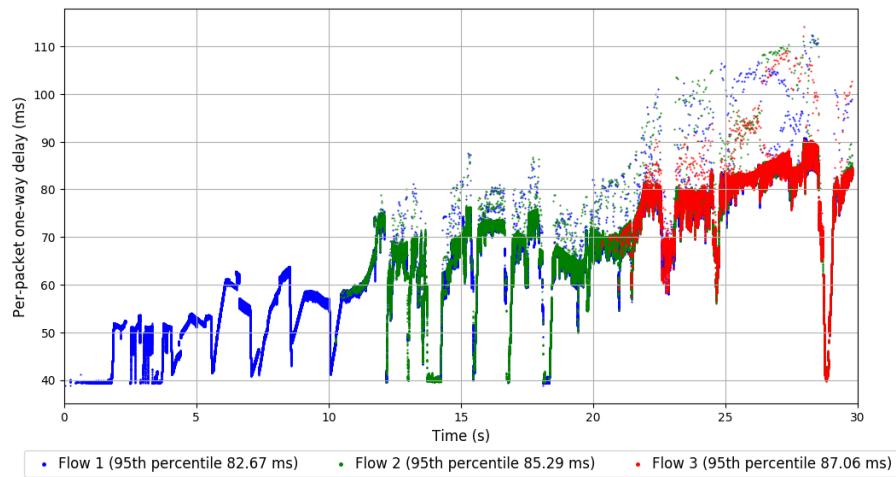
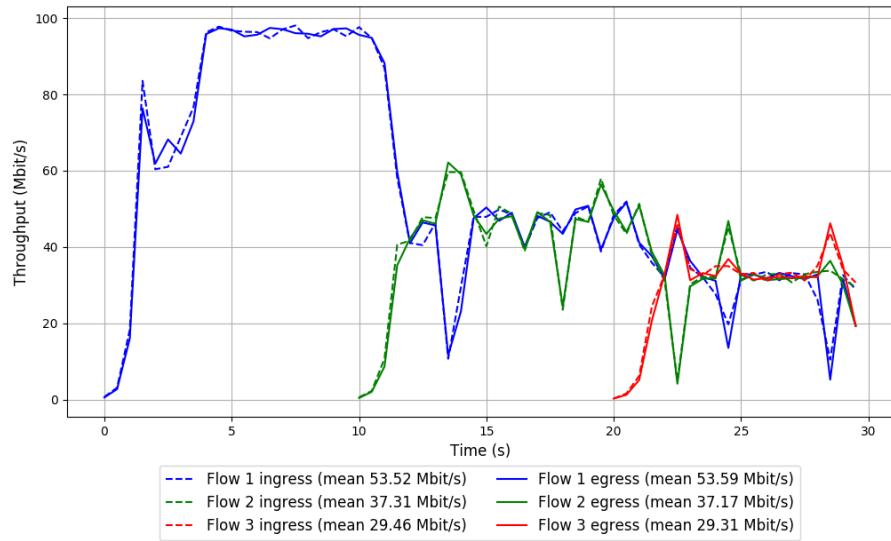


Run 10: Statistics of TCP BBR

```
Start at: 2018-04-24 20:41:05
End at: 2018-04-24 20:41:35
Local clock offset: 3.964 ms
Remote clock offset: -0.568 ms

# Below is generated by plot.py at 2018-04-25 00:42:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.76 Mbit/s
95th percentile per-packet one-way delay: 84.605 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 53.59 Mbit/s
95th percentile per-packet one-way delay: 82.671 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 37.17 Mbit/s
95th percentile per-packet one-way delay: 85.294 ms
Loss rate: 1.46%
-- Flow 3:
Average throughput: 29.31 Mbit/s
95th percentile per-packet one-way delay: 87.061 ms
Loss rate: 3.05%
```

Run 10: Report of TCP BBR — Data Link

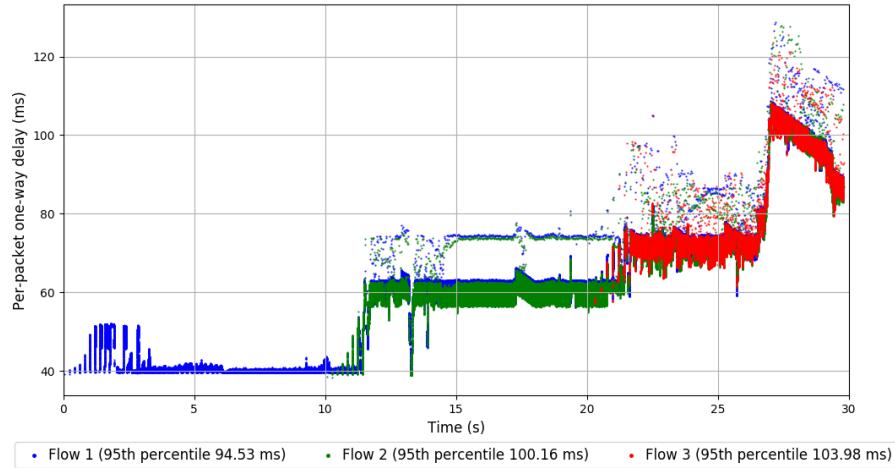
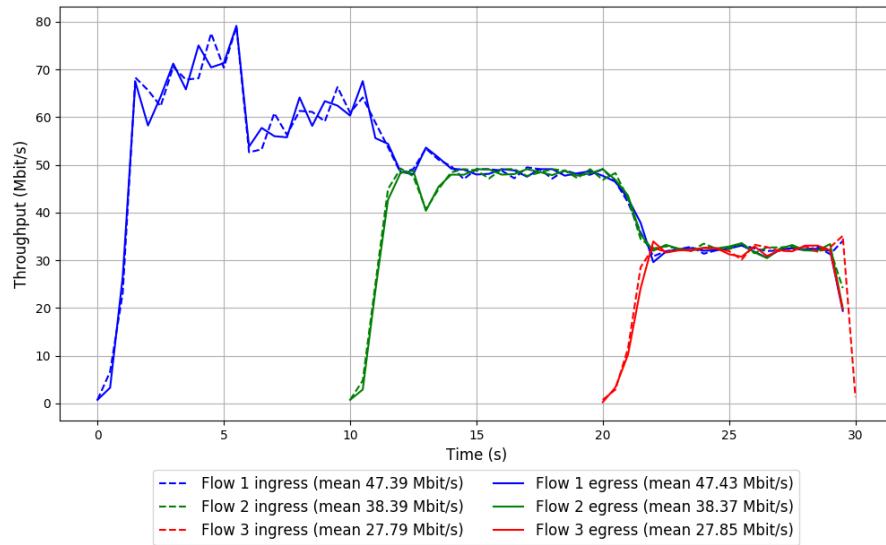


Run 1: Statistics of TCP Cubic

```
Start at: 2018-04-24 17:09:25
End at: 2018-04-24 17:09:55
Local clock offset: -2.317 ms
Remote clock offset: -6.279 ms

# Below is generated by plot.py at 2018-04-25 00:42:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.91 Mbit/s
95th percentile per-packet one-way delay: 99.644 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 47.43 Mbit/s
95th percentile per-packet one-way delay: 94.529 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 38.37 Mbit/s
95th percentile per-packet one-way delay: 100.164 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 27.85 Mbit/s
95th percentile per-packet one-way delay: 103.982 ms
Loss rate: 4.03%
```

Run 1: Report of TCP Cubic — Data Link

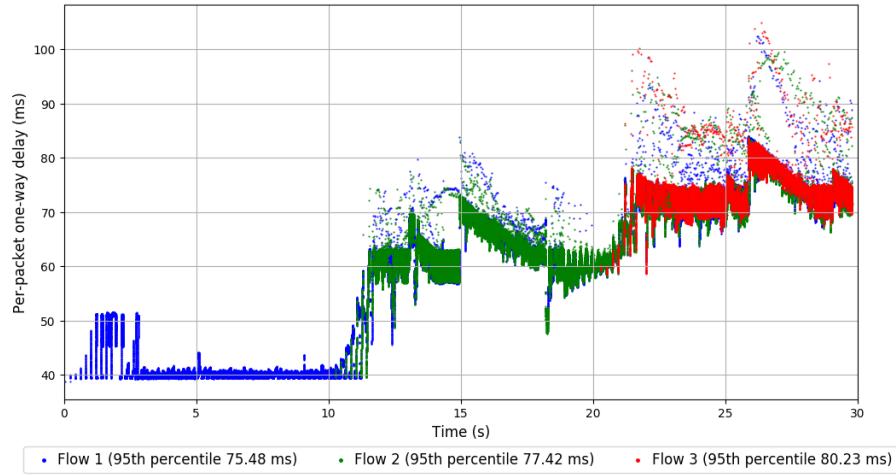
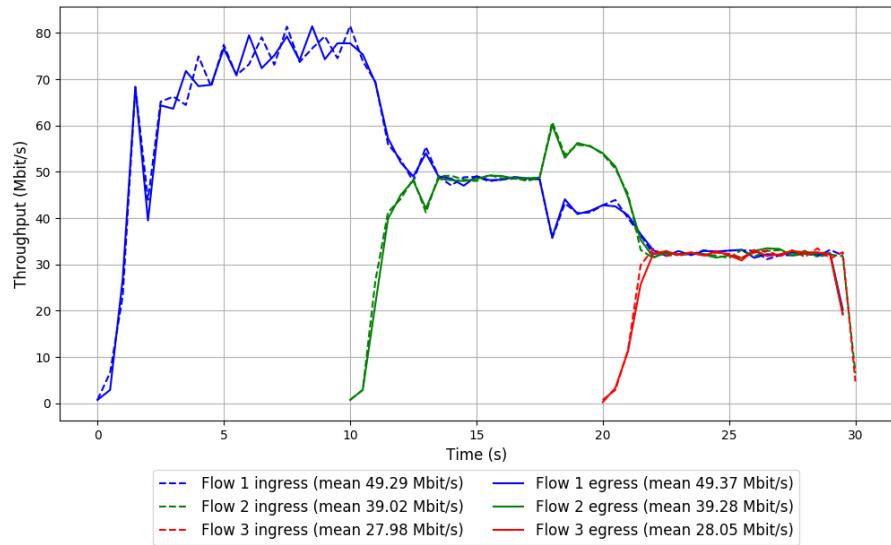


Run 2: Statistics of TCP Cubic

```
Start at: 2018-04-24 17:32:17
End at: 2018-04-24 17:32:47
Local clock offset: -0.768 ms
Remote clock offset: -4.971 ms

# Below is generated by plot.py at 2018-04-25 00:42:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.57 Mbit/s
95th percentile per-packet one-way delay: 77.360 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 49.37 Mbit/s
95th percentile per-packet one-way delay: 75.476 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 39.28 Mbit/s
95th percentile per-packet one-way delay: 77.421 ms
Loss rate: 1.47%
-- Flow 3:
Average throughput: 28.05 Mbit/s
95th percentile per-packet one-way delay: 80.235 ms
Loss rate: 4.00%
```

Run 2: Report of TCP Cubic — Data Link

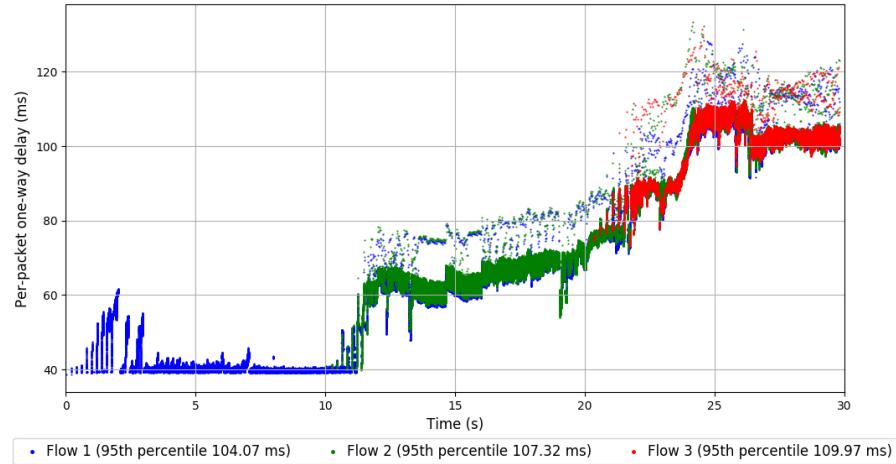
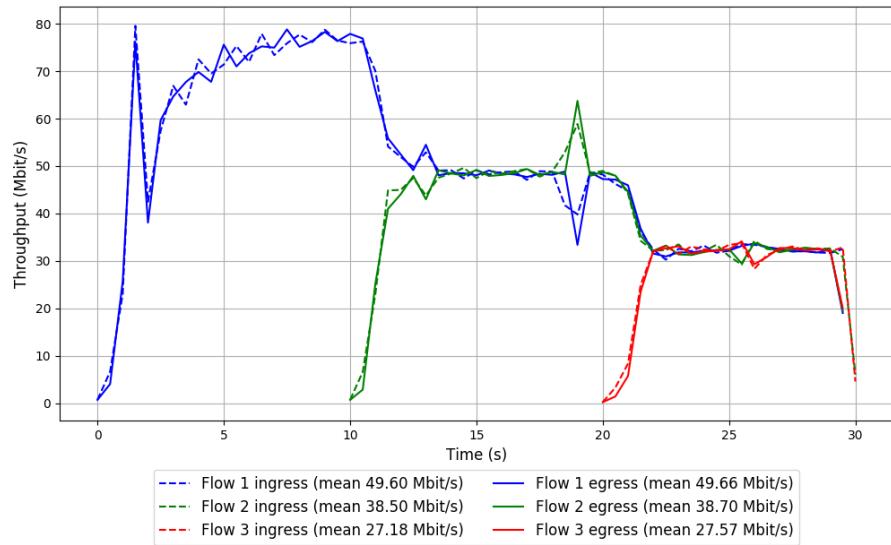


Run 3: Statistics of TCP Cubic

```
Start at: 2018-04-24 17:55:22
End at: 2018-04-24 17:55:52
Local clock offset: -5.157 ms
Remote clock offset: -2.044 ms

# Below is generated by plot.py at 2018-04-25 00:42:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.30 Mbit/s
95th percentile per-packet one-way delay: 107.114 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 49.66 Mbit/s
95th percentile per-packet one-way delay: 104.074 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 38.70 Mbit/s
95th percentile per-packet one-way delay: 107.319 ms
Loss rate: 1.57%
-- Flow 3:
Average throughput: 27.57 Mbit/s
95th percentile per-packet one-way delay: 109.966 ms
Loss rate: 4.32%
```

Run 3: Report of TCP Cubic — Data Link

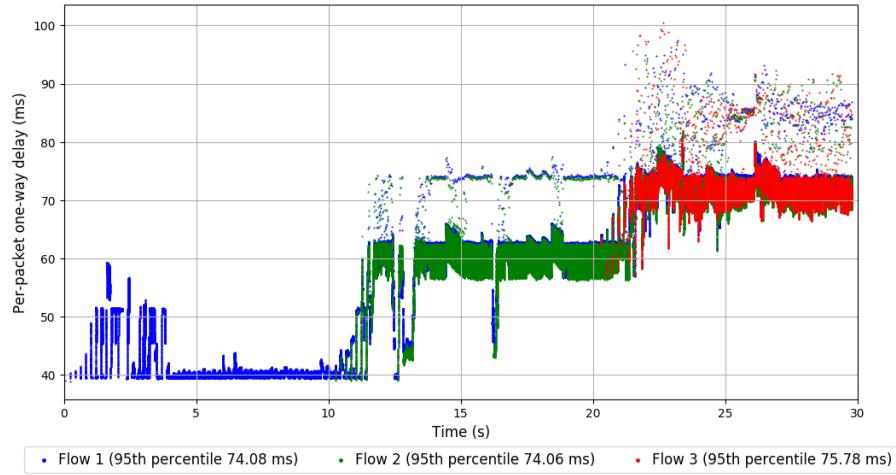
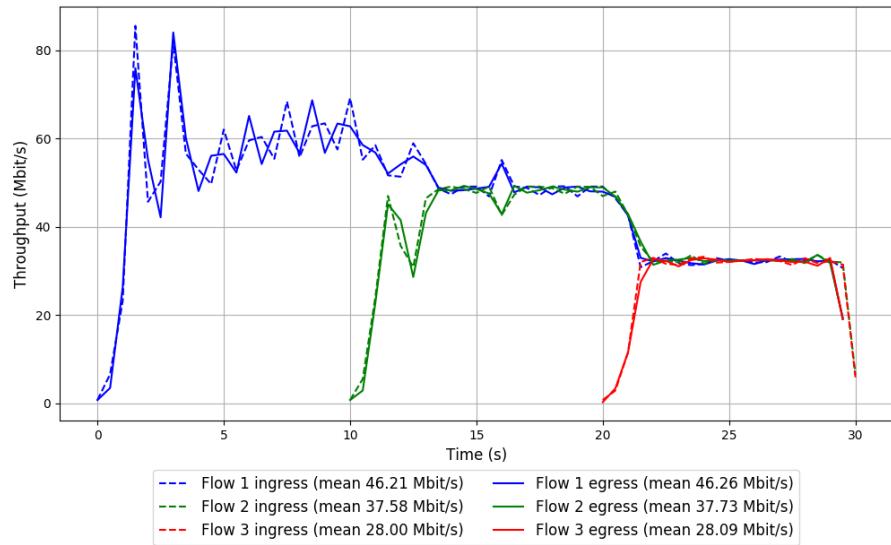


Run 4: Statistics of TCP Cubic

```
Start at: 2018-04-24 18:18:15
End at: 2018-04-24 18:18:45
Local clock offset: -2.645 ms
Remote clock offset: -1.335 ms

# Below is generated by plot.py at 2018-04-25 00:42:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.45 Mbit/s
95th percentile per-packet one-way delay: 74.314 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 46.26 Mbit/s
95th percentile per-packet one-way delay: 74.082 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 37.73 Mbit/s
95th percentile per-packet one-way delay: 74.064 ms
Loss rate: 1.58%
-- Flow 3:
Average throughput: 28.09 Mbit/s
95th percentile per-packet one-way delay: 75.784 ms
Loss rate: 4.00%
```

Run 4: Report of TCP Cubic — Data Link

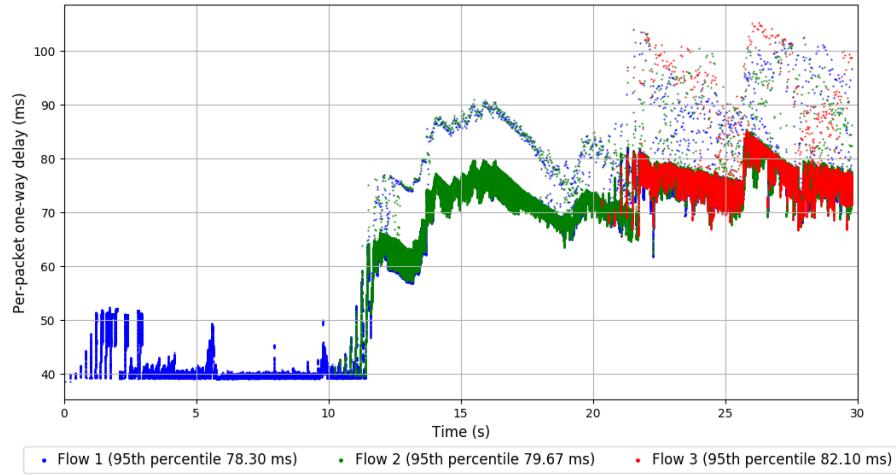
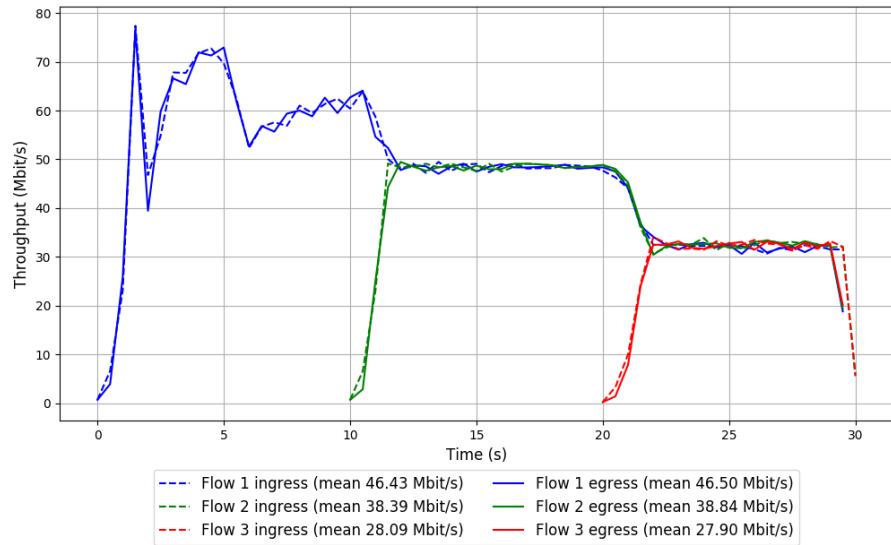


Run 5: Statistics of TCP Cubic

```
Start at: 2018-04-24 18:41:10
End at: 2018-04-24 18:41:40
Local clock offset: -0.5 ms
Remote clock offset: -1.474 ms

# Below is generated by plot.py at 2018-04-25 00:42:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.33 Mbit/s
95th percentile per-packet one-way delay: 79.501 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 46.50 Mbit/s
95th percentile per-packet one-way delay: 78.304 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 38.84 Mbit/s
95th percentile per-packet one-way delay: 79.668 ms
Loss rate: 1.47%
-- Flow 3:
Average throughput: 27.90 Mbit/s
95th percentile per-packet one-way delay: 82.096 ms
Loss rate: 4.02%
```

Run 5: Report of TCP Cubic — Data Link

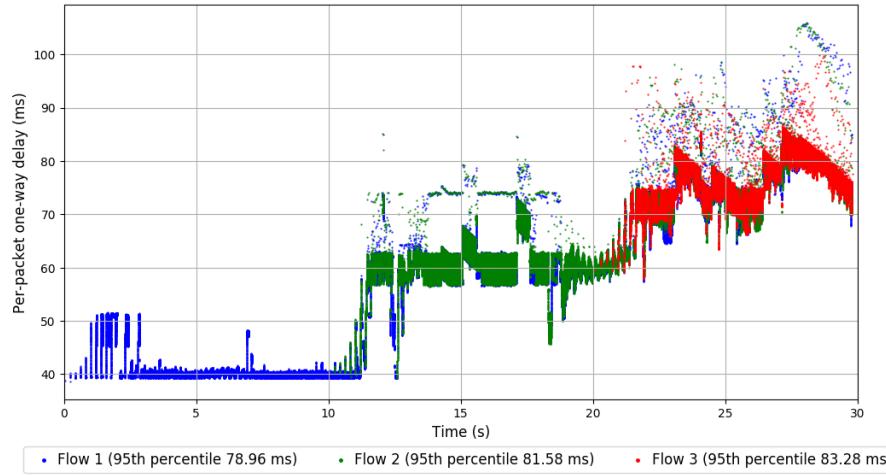
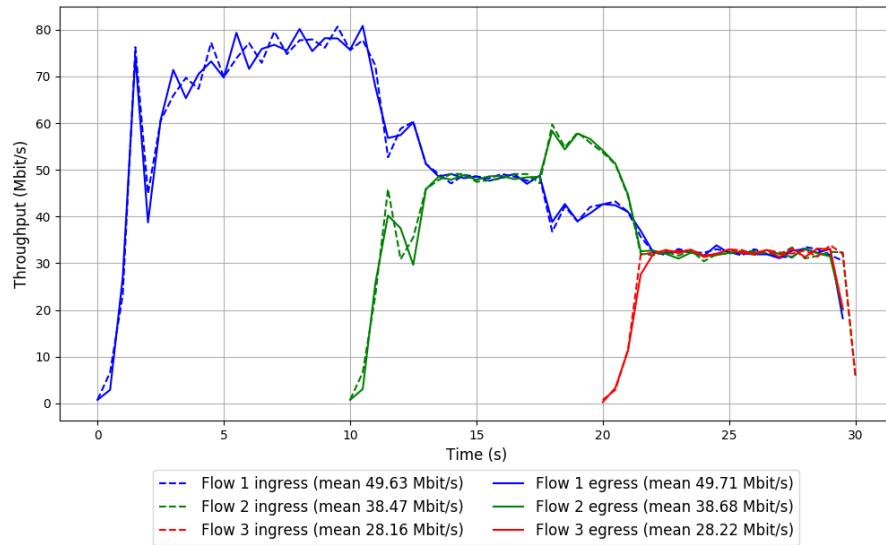


Run 6: Statistics of TCP Cubic

```
Start at: 2018-04-24 19:04:03
End at: 2018-04-24 19:04:33
Local clock offset: 2.778 ms
Remote clock offset: -1.65 ms

# Below is generated by plot.py at 2018-04-25 00:42:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.58 Mbit/s
95th percentile per-packet one-way delay: 80.846 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 49.71 Mbit/s
95th percentile per-packet one-way delay: 78.956 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 38.68 Mbit/s
95th percentile per-packet one-way delay: 81.579 ms
Loss rate: 1.49%
-- Flow 3:
Average throughput: 28.22 Mbit/s
95th percentile per-packet one-way delay: 83.282 ms
Loss rate: 4.00%
```

Run 6: Report of TCP Cubic — Data Link

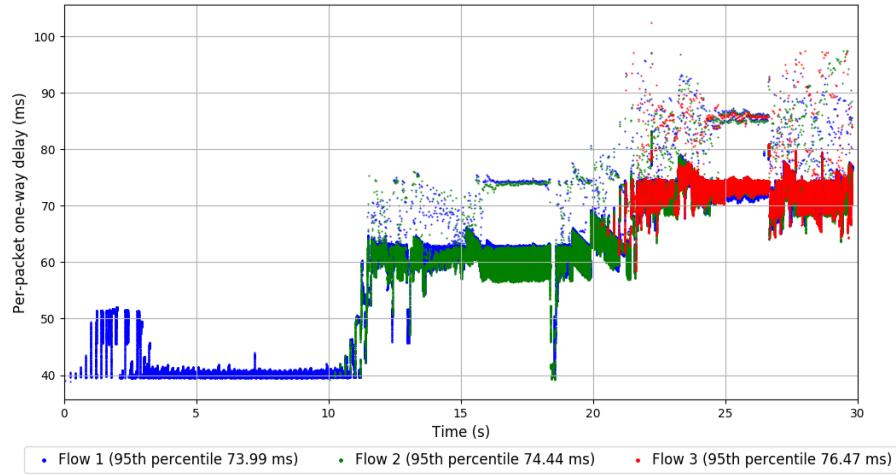
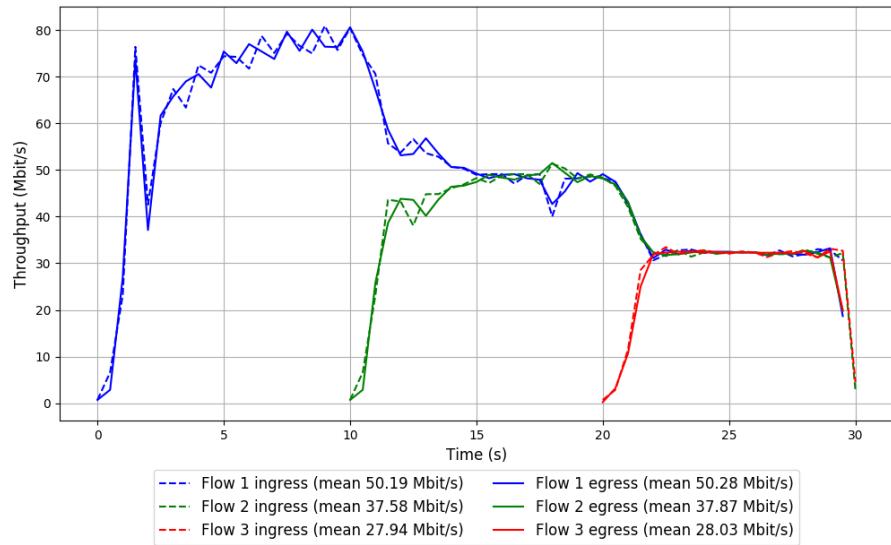


Run 7: Statistics of TCP Cubic

```
Start at: 2018-04-24 19:26:55
End at: 2018-04-24 19:27:25
Local clock offset: -0.652 ms
Remote clock offset: -1.026 ms

# Below is generated by plot.py at 2018-04-25 00:43:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.53 Mbit/s
95th percentile per-packet one-way delay: 74.466 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 50.28 Mbit/s
95th percentile per-packet one-way delay: 73.986 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 37.87 Mbit/s
95th percentile per-packet one-way delay: 74.437 ms
Loss rate: 1.30%
-- Flow 3:
Average throughput: 28.03 Mbit/s
95th percentile per-packet one-way delay: 76.471 ms
Loss rate: 3.96%
```

Run 7: Report of TCP Cubic — Data Link

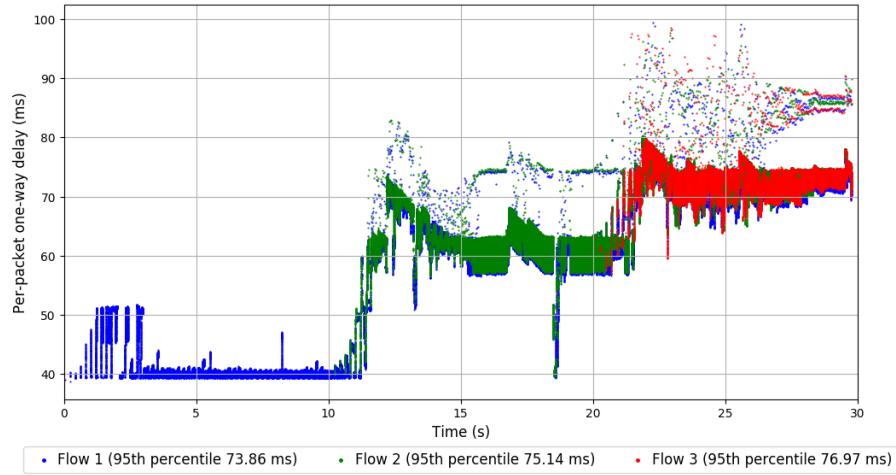
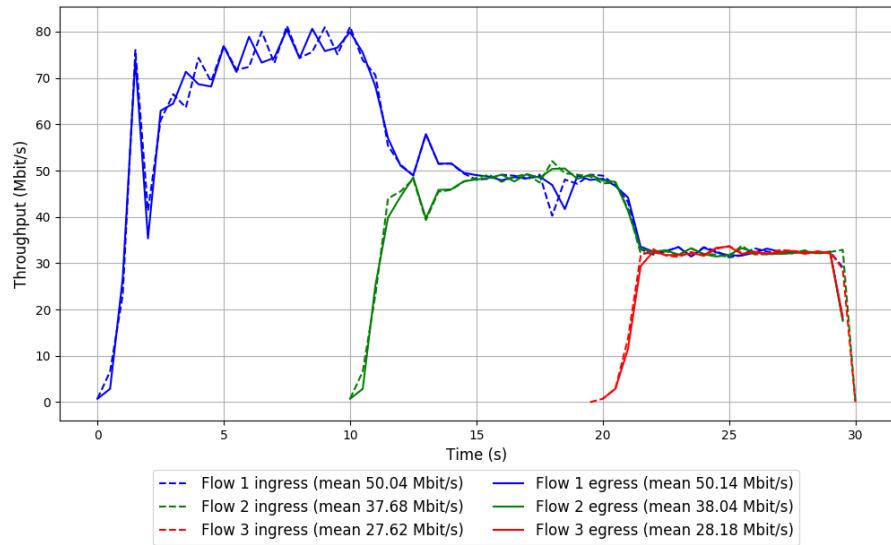


Run 8: Statistics of TCP Cubic

```
Start at: 2018-04-24 19:49:44
End at: 2018-04-24 19:50:14
Local clock offset: -3.078 ms
Remote clock offset: -0.82 ms

# Below is generated by plot.py at 2018-04-25 00:43:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.57 Mbit/s
95th percentile per-packet one-way delay: 74.772 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 50.14 Mbit/s
95th percentile per-packet one-way delay: 73.862 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 38.04 Mbit/s
95th percentile per-packet one-way delay: 75.137 ms
Loss rate: 1.30%
-- Flow 3:
Average throughput: 28.18 Mbit/s
95th percentile per-packet one-way delay: 76.970 ms
Loss rate: 2.79%
```

Run 8: Report of TCP Cubic — Data Link

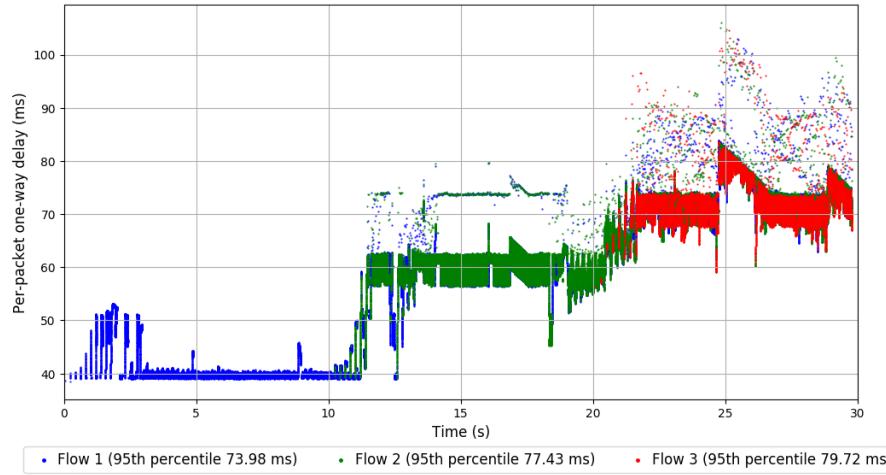
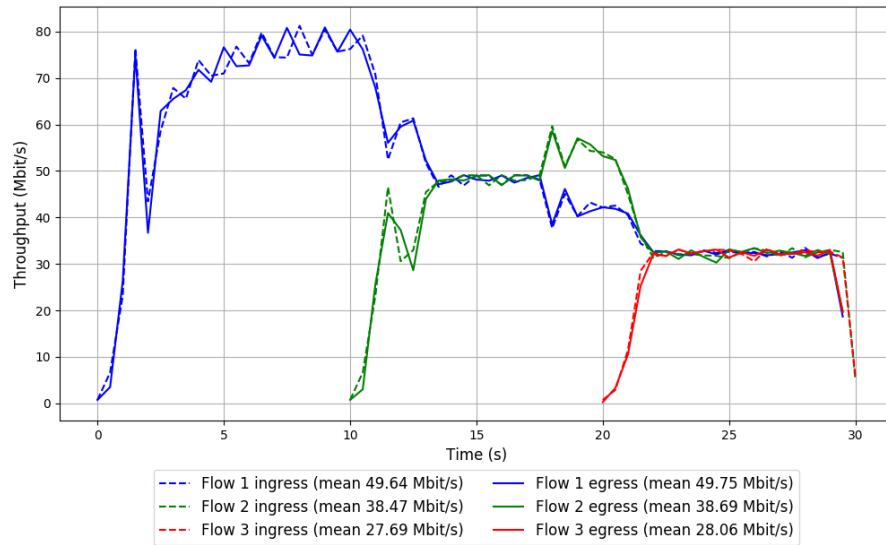


Run 9: Statistics of TCP Cubic

```
Start at: 2018-04-24 20:12:49
End at: 2018-04-24 20:13:19
Local clock offset: 4.401 ms
Remote clock offset: -0.678 ms

# Below is generated by plot.py at 2018-04-25 00:43:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.56 Mbit/s
95th percentile per-packet one-way delay: 76.923 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 49.75 Mbit/s
95th percentile per-packet one-way delay: 73.978 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 38.69 Mbit/s
95th percentile per-packet one-way delay: 77.429 ms
Loss rate: 1.46%
-- Flow 3:
Average throughput: 28.06 Mbit/s
95th percentile per-packet one-way delay: 79.725 ms
Loss rate: 4.05%
```

Run 9: Report of TCP Cubic — Data Link

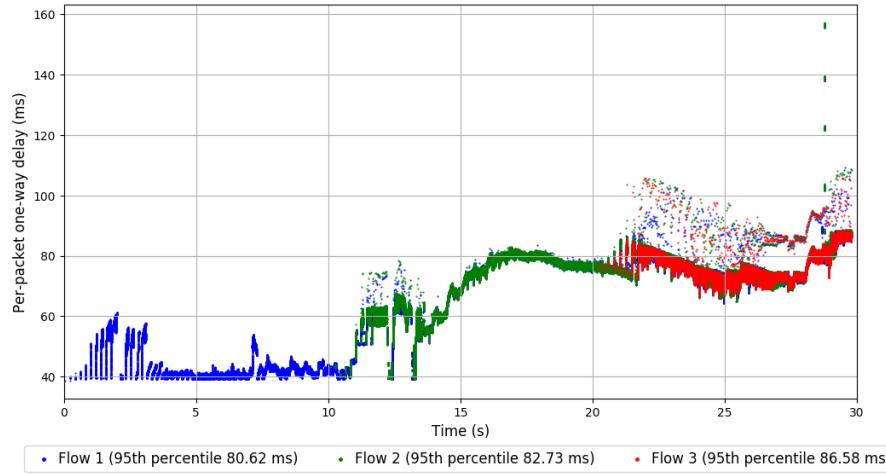
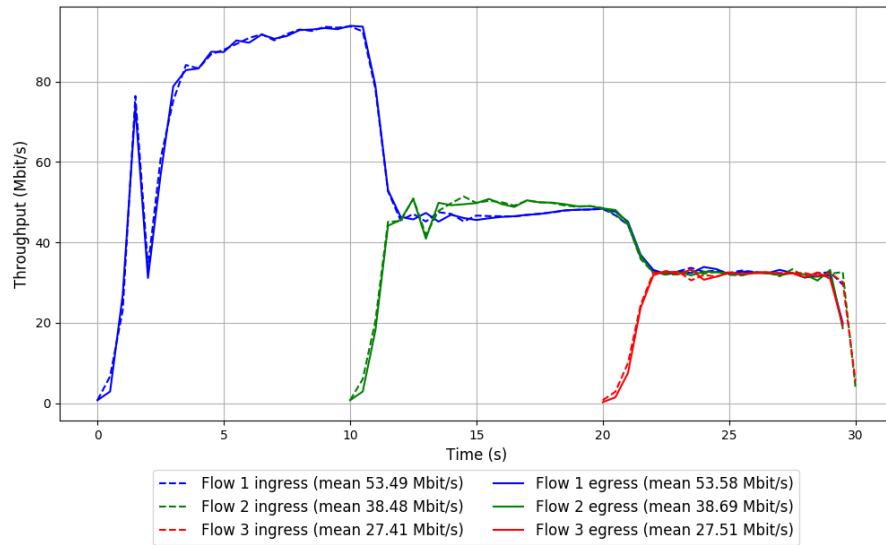


Run 10: Statistics of TCP Cubic

```
Start at: 2018-04-24 20:35:44
End at: 2018-04-24 20:36:14
Local clock offset: 4.116 ms
Remote clock offset: -0.543 ms

# Below is generated by plot.py at 2018-04-25 00:43:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.19 Mbit/s
95th percentile per-packet one-way delay: 81.877 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 53.58 Mbit/s
95th percentile per-packet one-way delay: 80.617 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 38.69 Mbit/s
95th percentile per-packet one-way delay: 82.726 ms
Loss rate: 1.48%
-- Flow 3:
Average throughput: 27.51 Mbit/s
95th percentile per-packet one-way delay: 86.580 ms
Loss rate: 4.01%
```

Run 10: Report of TCP Cubic — Data Link

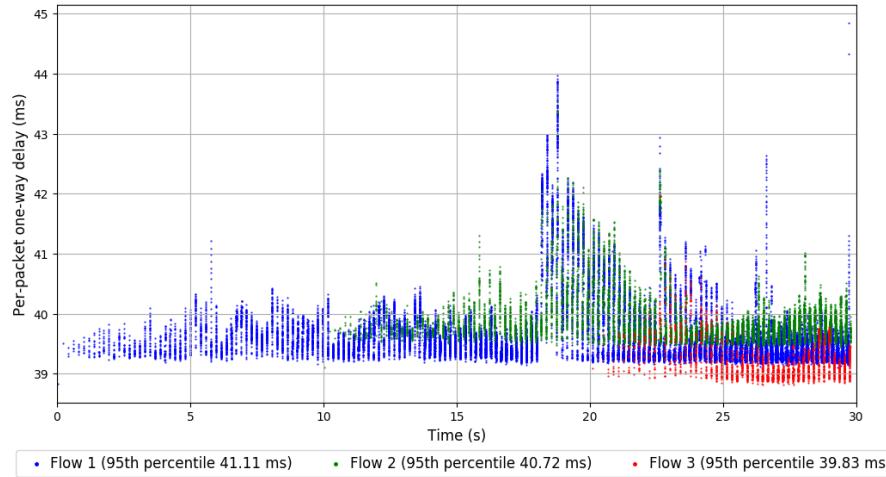
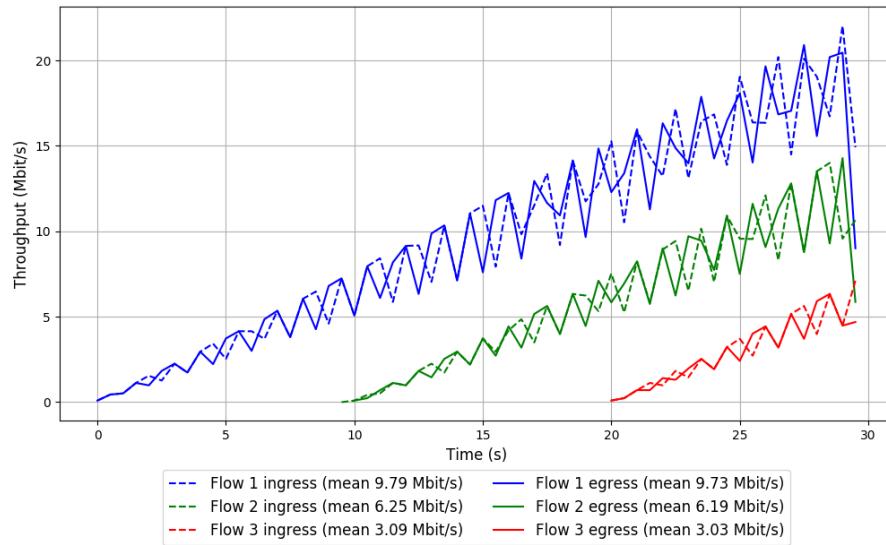


```
Run 1: Statistics of LEDBAT

Start at: 2018-04-24 17:13:27
End at: 2018-04-24 17:13:57
Local clock offset: -1.596 ms
Remote clock offset: -5.887 ms

# Below is generated by plot.py at 2018-04-25 00:43:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.80 Mbit/s
95th percentile per-packet one-way delay: 40.926 ms
Loss rate: 1.64%
-- Flow 1:
Average throughput: 9.73 Mbit/s
95th percentile per-packet one-way delay: 41.109 ms
Loss rate: 1.28%
-- Flow 2:
Average throughput: 6.19 Mbit/s
95th percentile per-packet one-way delay: 40.721 ms
Loss rate: 1.92%
-- Flow 3:
Average throughput: 3.03 Mbit/s
95th percentile per-packet one-way delay: 39.828 ms
Loss rate: 3.97%
```

Run 1: Report of LEDBAT — Data Link

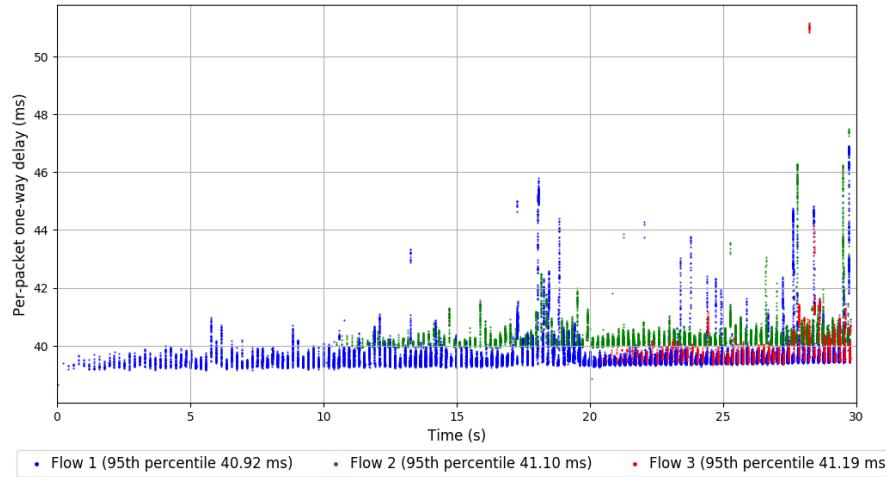
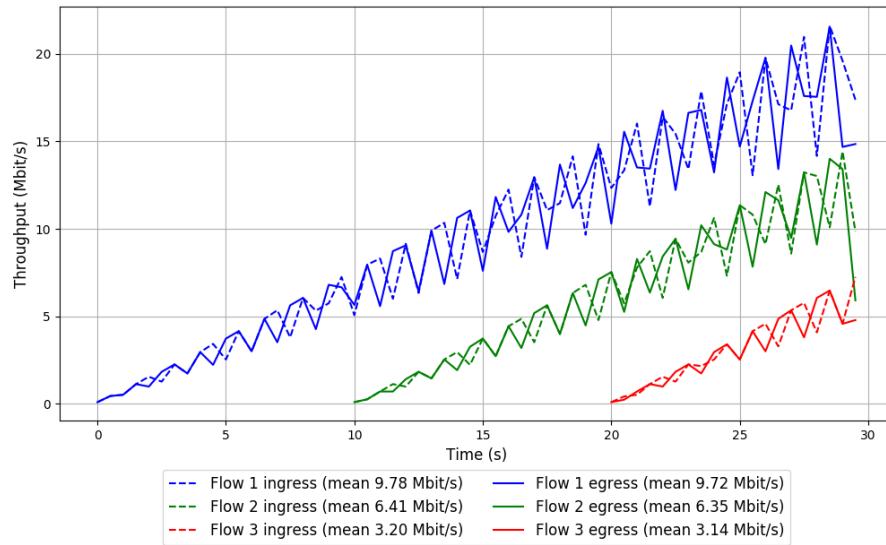


Run 2: Statistics of LEDBAT

```
Start at: 2018-04-24 17:36:21
End at: 2018-04-24 17:36:51
Local clock offset: -1.43 ms
Remote clock offset: -3.58 ms

# Below is generated by plot.py at 2018-04-25 00:43:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.93 Mbit/s
95th percentile per-packet one-way delay: 41.028 ms
Loss rate: 1.65%
-- Flow 1:
Average throughput: 9.72 Mbit/s
95th percentile per-packet one-way delay: 40.923 ms
Loss rate: 1.28%
-- Flow 2:
Average throughput: 6.35 Mbit/s
95th percentile per-packet one-way delay: 41.104 ms
Loss rate: 1.95%
-- Flow 3:
Average throughput: 3.14 Mbit/s
95th percentile per-packet one-way delay: 41.189 ms
Loss rate: 3.89%
```

Run 2: Report of LEDBAT — Data Link

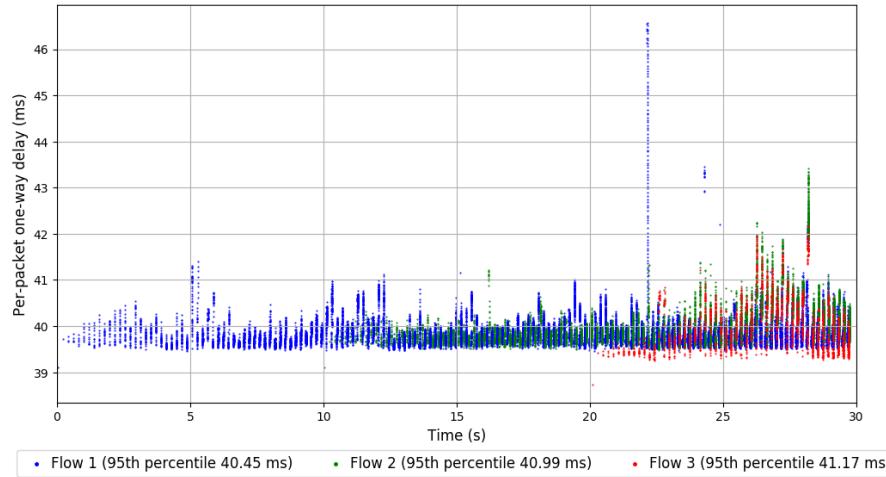
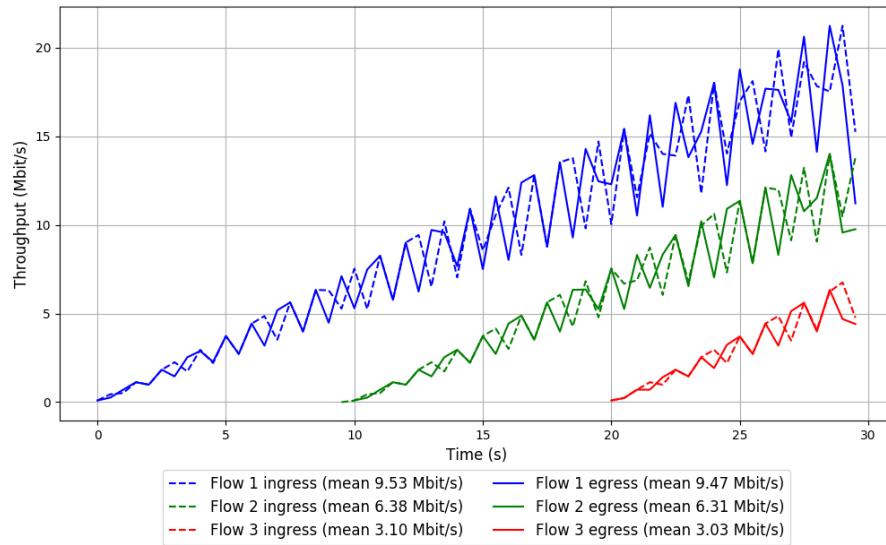


Run 3: Statistics of LEDBAT

```
Start at: 2018-04-24 17:59:26
End at: 2018-04-24 17:59:56
Local clock offset: -5.766 ms
Remote clock offset: -2.076 ms

# Below is generated by plot.py at 2018-04-25 00:43:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.64 Mbit/s
95th percentile per-packet one-way delay: 40.688 ms
Loss rate: 1.67%
-- Flow 1:
Average throughput: 9.47 Mbit/s
95th percentile per-packet one-way delay: 40.449 ms
Loss rate: 1.30%
-- Flow 2:
Average throughput: 6.31 Mbit/s
95th percentile per-packet one-way delay: 40.987 ms
Loss rate: 1.95%
-- Flow 3:
Average throughput: 3.03 Mbit/s
95th percentile per-packet one-way delay: 41.166 ms
Loss rate: 3.98%
```

Run 3: Report of LEDBAT — Data Link

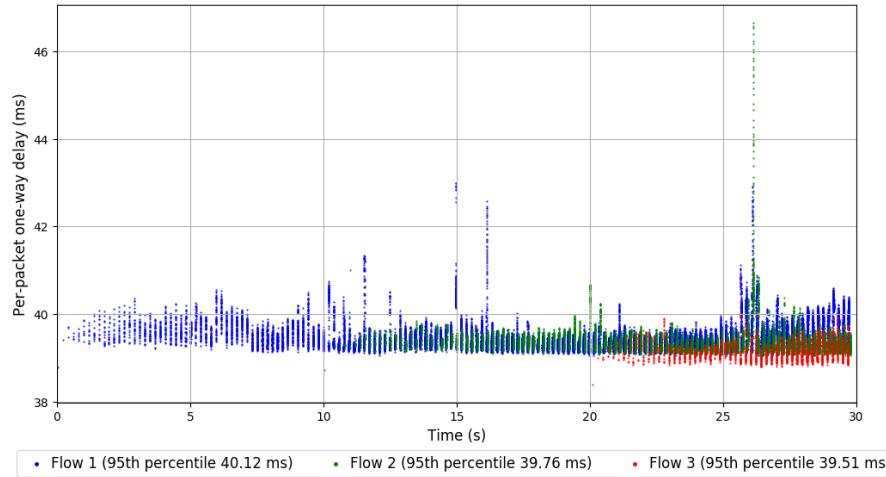
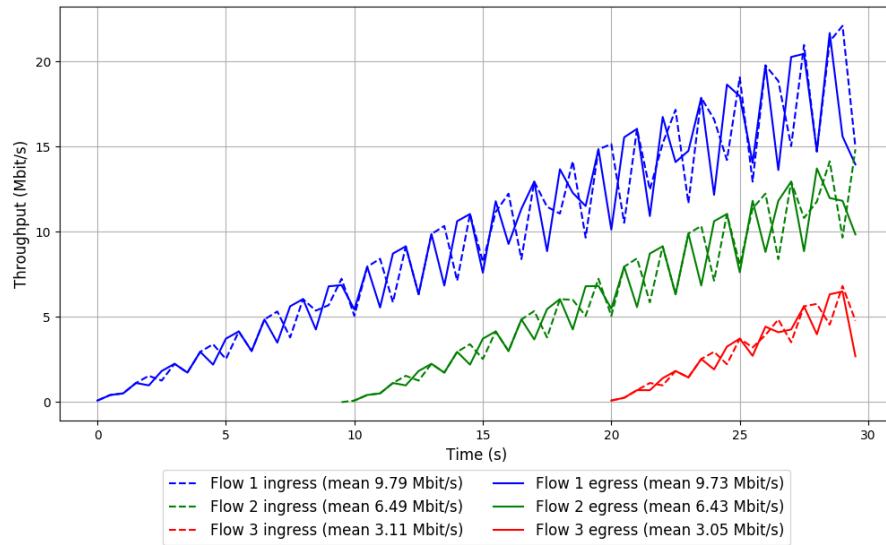


Run 4: Statistics of LEDBAT

```
Start at: 2018-04-24 18:22:19
End at: 2018-04-24 18:22:49
Local clock offset: -1.744 ms
Remote clock offset: -1.347 ms

# Below is generated by plot.py at 2018-04-25 00:43:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.97 Mbit/s
95th percentile per-packet one-way delay: 40.046 ms
Loss rate: 1.65%
-- Flow 1:
Average throughput: 9.73 Mbit/s
95th percentile per-packet one-way delay: 40.120 ms
Loss rate: 1.28%
-- Flow 2:
Average throughput: 6.43 Mbit/s
95th percentile per-packet one-way delay: 39.758 ms
Loss rate: 1.93%
-- Flow 3:
Average throughput: 3.05 Mbit/s
95th percentile per-packet one-way delay: 39.505 ms
Loss rate: 3.96%
```

Run 4: Report of LEDBAT — Data Link

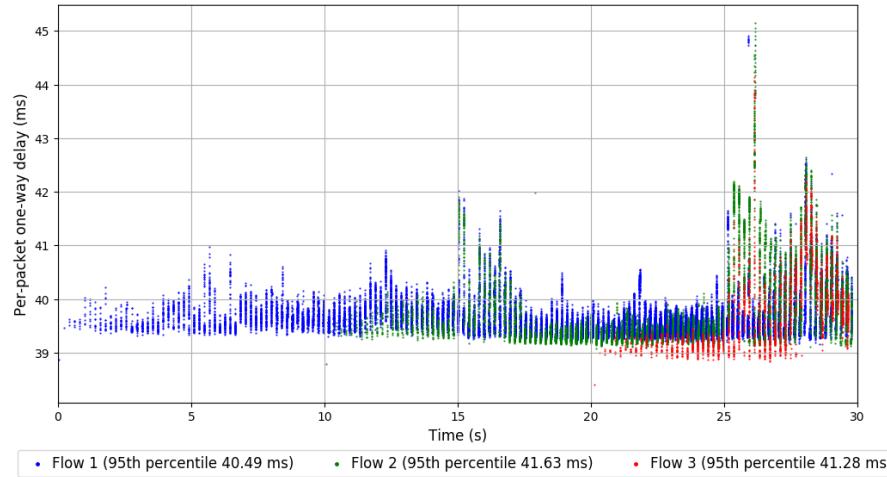
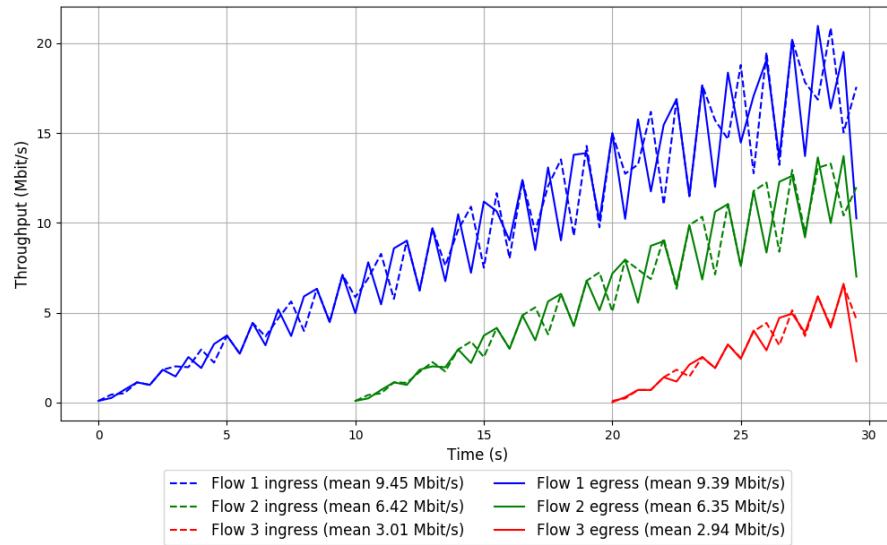


Run 5: Statistics of LEDBAT

```
Start at: 2018-04-24 18:45:12
End at: 2018-04-24 18:45:42
Local clock offset: 0.369 ms
Remote clock offset: -1.432 ms

# Below is generated by plot.py at 2018-04-25 00:43:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.55 Mbit/s
95th percentile per-packet one-way delay: 40.925 ms
Loss rate: 1.66%
-- Flow 1:
Average throughput: 9.39 Mbit/s
95th percentile per-packet one-way delay: 40.493 ms
Loss rate: 1.29%
-- Flow 2:
Average throughput: 6.35 Mbit/s
95th percentile per-packet one-way delay: 41.631 ms
Loss rate: 1.94%
-- Flow 3:
Average throughput: 2.94 Mbit/s
95th percentile per-packet one-way delay: 41.281 ms
Loss rate: 4.02%
```

Run 5: Report of LEDBAT — Data Link

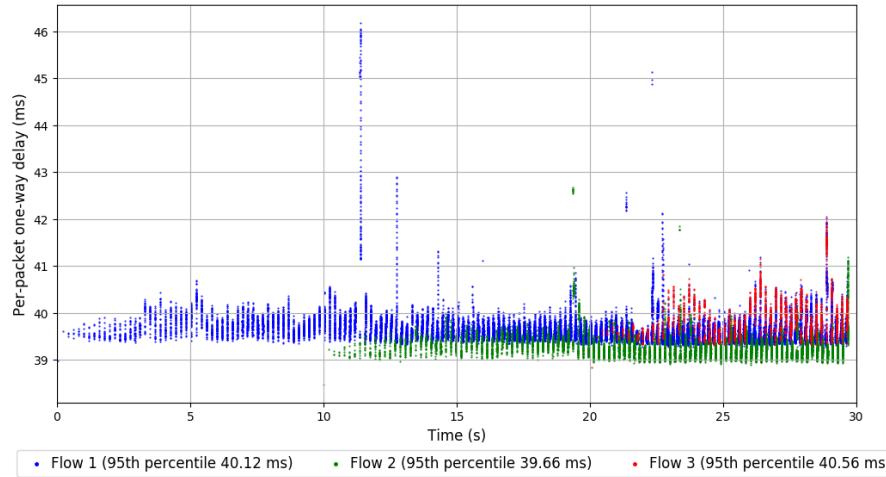
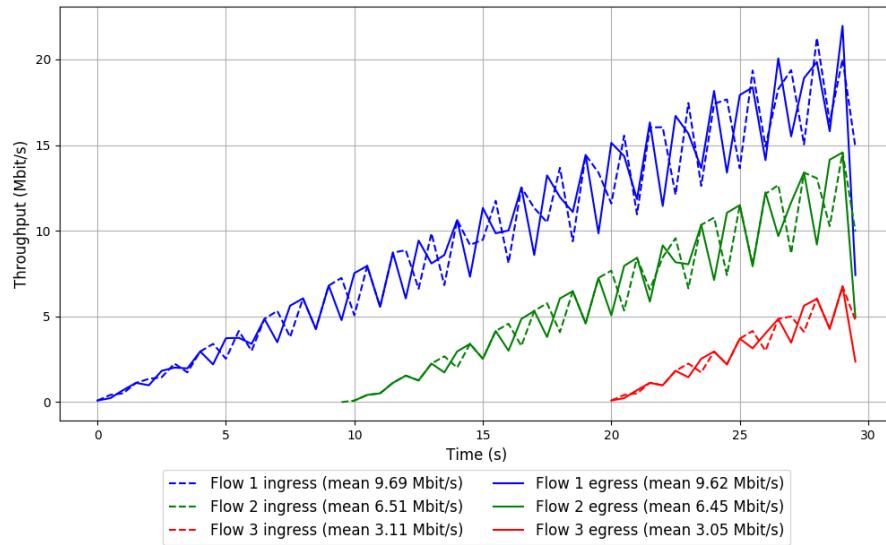


Run 6: Statistics of LEDBAT

```
Start at: 2018-04-24 19:08:06
End at: 2018-04-24 19:08:36
Local clock offset: 2.856 ms
Remote clock offset: -1.682 ms

# Below is generated by plot.py at 2018-04-25 00:43:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.88 Mbit/s
95th percentile per-packet one-way delay: 40.144 ms
Loss rate: 1.66%
-- Flow 1:
Average throughput: 9.62 Mbit/s
95th percentile per-packet one-way delay: 40.125 ms
Loss rate: 1.29%
-- Flow 2:
Average throughput: 6.45 Mbit/s
95th percentile per-packet one-way delay: 39.659 ms
Loss rate: 1.93%
-- Flow 3:
Average throughput: 3.05 Mbit/s
95th percentile per-packet one-way delay: 40.556 ms
Loss rate: 3.97%
```

Run 6: Report of LEDBAT — Data Link

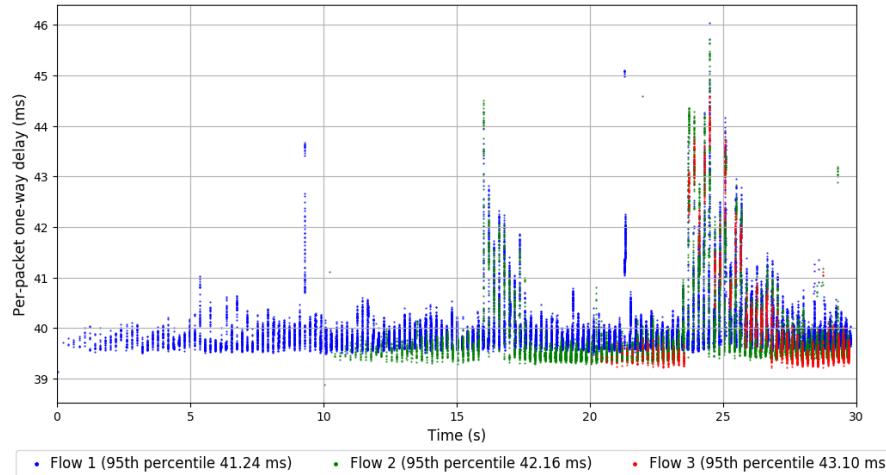
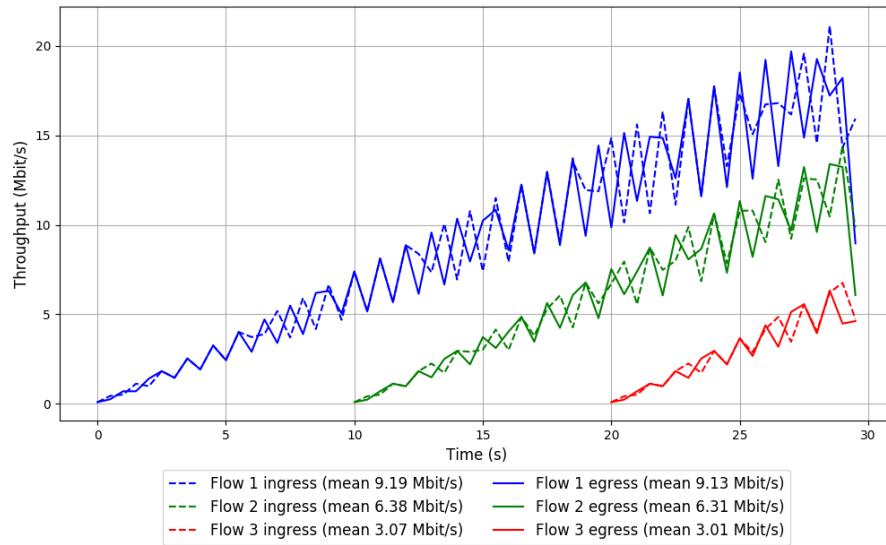


Run 7: Statistics of LEDBAT

```
Start at: 2018-04-24 19:30:57
End at: 2018-04-24 19:31:27
Local clock offset: -1.619 ms
Remote clock offset: -0.967 ms

# Below is generated by plot.py at 2018-04-25 00:43:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.29 Mbit/s
95th percentile per-packet one-way delay: 41.635 ms
Loss rate: 1.66%
-- Flow 1:
Average throughput: 9.13 Mbit/s
95th percentile per-packet one-way delay: 41.237 ms
Loss rate: 1.27%
-- Flow 2:
Average throughput: 6.31 Mbit/s
95th percentile per-packet one-way delay: 42.156 ms
Loss rate: 1.95%
-- Flow 3:
Average throughput: 3.01 Mbit/s
95th percentile per-packet one-way delay: 43.099 ms
Loss rate: 3.95%
```

Run 7: Report of LEDBAT — Data Link

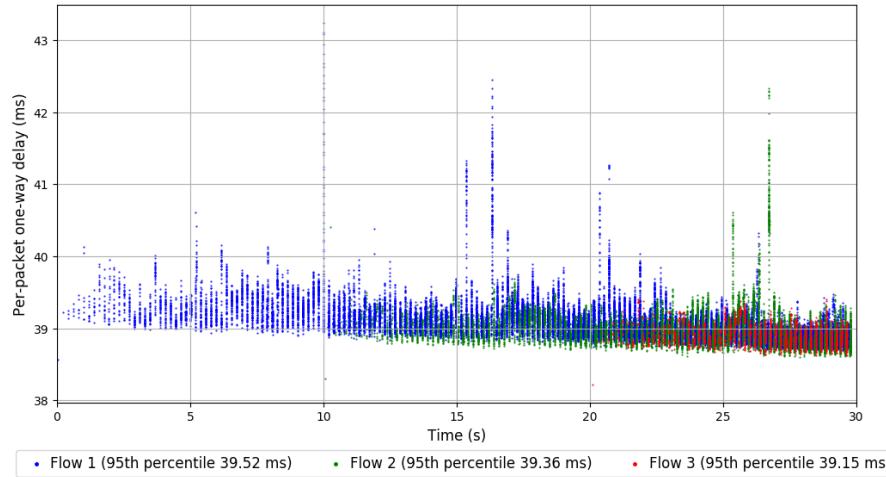
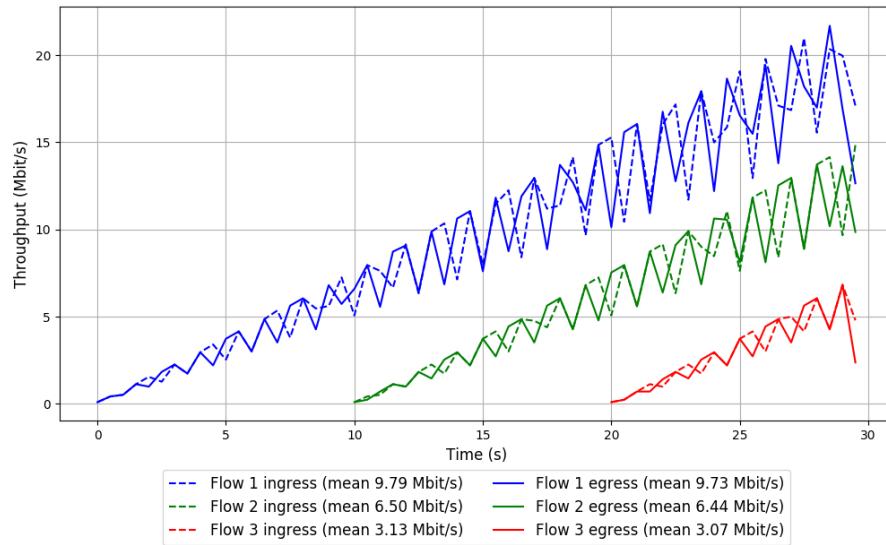


Run 8: Statistics of LEDBAT

```
Start at: 2018-04-24 19:53:47
End at: 2018-04-24 19:54:17
Local clock offset: -1.504 ms
Remote clock offset: -0.823 ms

# Below is generated by plot.py at 2018-04-25 00:43:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.96 Mbit/s
95th percentile per-packet one-way delay: 39.466 ms
Loss rate: 1.65%
-- Flow 1:
Average throughput: 9.73 Mbit/s
95th percentile per-packet one-way delay: 39.521 ms
Loss rate: 1.28%
-- Flow 2:
Average throughput: 6.44 Mbit/s
95th percentile per-packet one-way delay: 39.357 ms
Loss rate: 1.93%
-- Flow 3:
Average throughput: 3.07 Mbit/s
95th percentile per-packet one-way delay: 39.153 ms
Loss rate: 3.96%
```

Run 8: Report of LEDBAT — Data Link

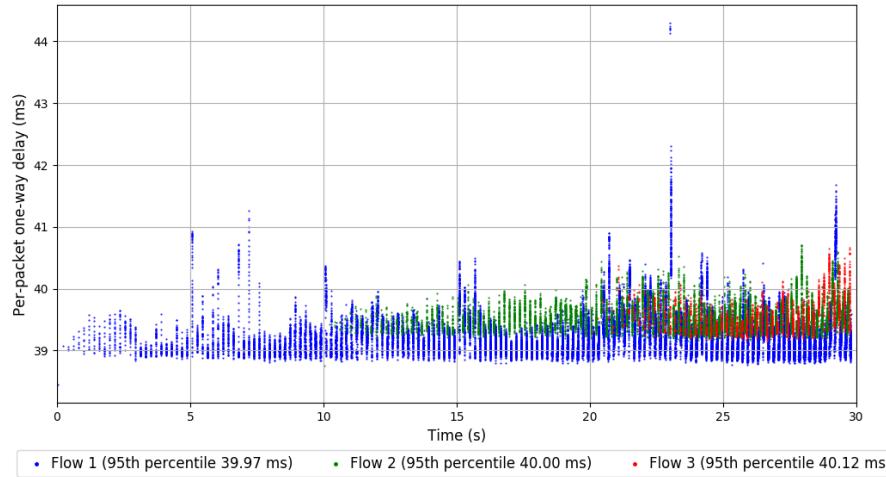
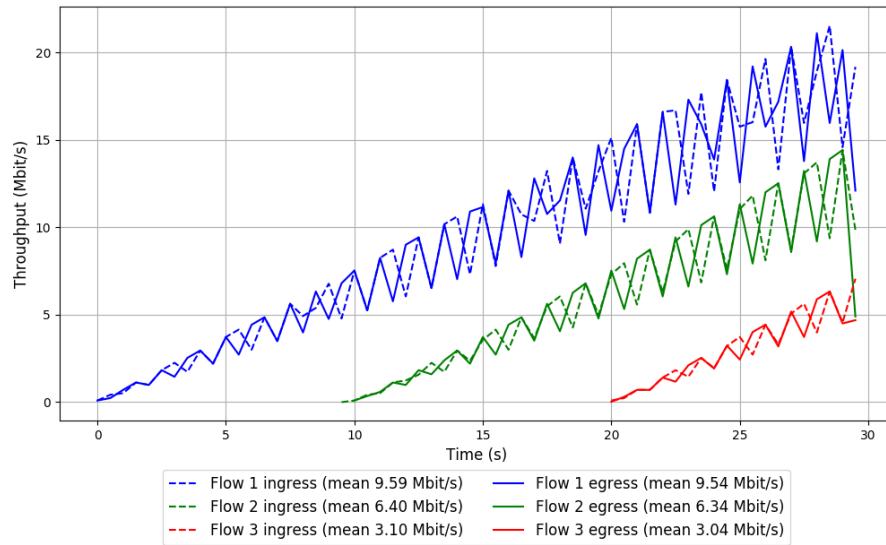


Run 9: Statistics of LEDBAT

```
Start at: 2018-04-24 20:16:55
End at: 2018-04-24 20:17:25
Local clock offset: 5.115 ms
Remote clock offset: -0.656 ms

# Below is generated by plot.py at 2018-04-25 00:43:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.70 Mbit/s
95th percentile per-packet one-way delay: 39.999 ms
Loss rate: 1.62%
-- Flow 1:
Average throughput: 9.54 Mbit/s
95th percentile per-packet one-way delay: 39.966 ms
Loss rate: 1.23%
-- Flow 2:
Average throughput: 6.34 Mbit/s
95th percentile per-packet one-way delay: 40.002 ms
Loss rate: 1.95%
-- Flow 3:
Average throughput: 3.04 Mbit/s
95th percentile per-packet one-way delay: 40.117 ms
Loss rate: 3.96%
```

Run 9: Report of LEDBAT — Data Link

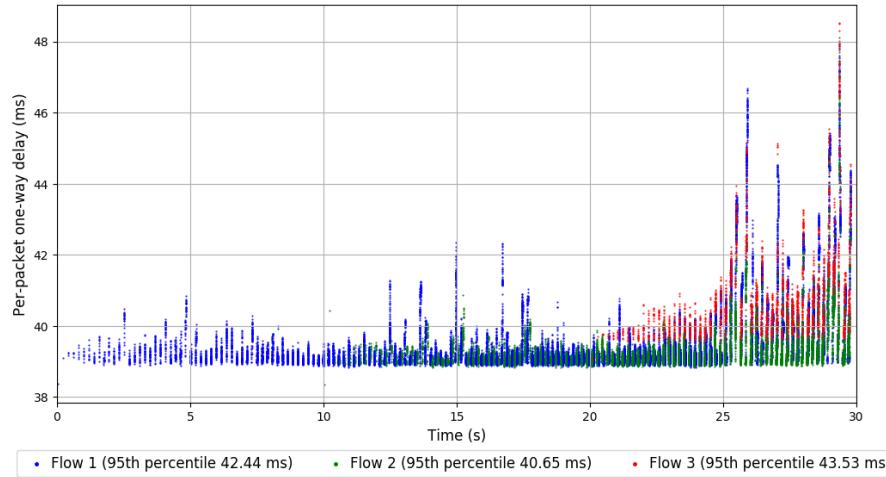
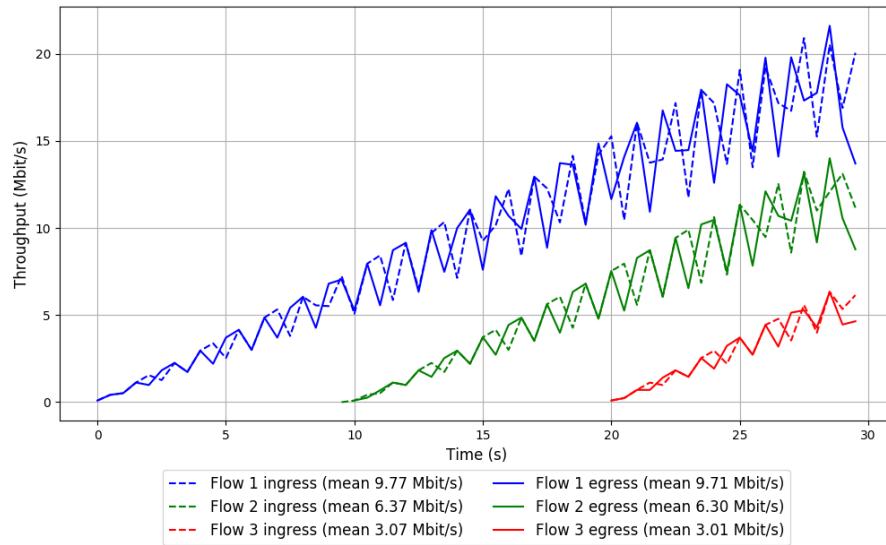


Run 10: Statistics of LEDBAT

```
Start at: 2018-04-24 20:39:47
End at: 2018-04-24 20:40:17
Local clock offset: 3.979 ms
Remote clock offset: -0.506 ms

# Below is generated by plot.py at 2018-04-25 00:43:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.88 Mbit/s
95th percentile per-packet one-way delay: 42.148 ms
Loss rate: 1.65%
-- Flow 1:
Average throughput: 9.71 Mbit/s
95th percentile per-packet one-way delay: 42.441 ms
Loss rate: 1.28%
-- Flow 2:
Average throughput: 6.30 Mbit/s
95th percentile per-packet one-way delay: 40.645 ms
Loss rate: 1.95%
-- Flow 3:
Average throughput: 3.01 Mbit/s
95th percentile per-packet one-way delay: 43.533 ms
Loss rate: 3.94%
```

Run 10: Report of LEDBAT — Data Link

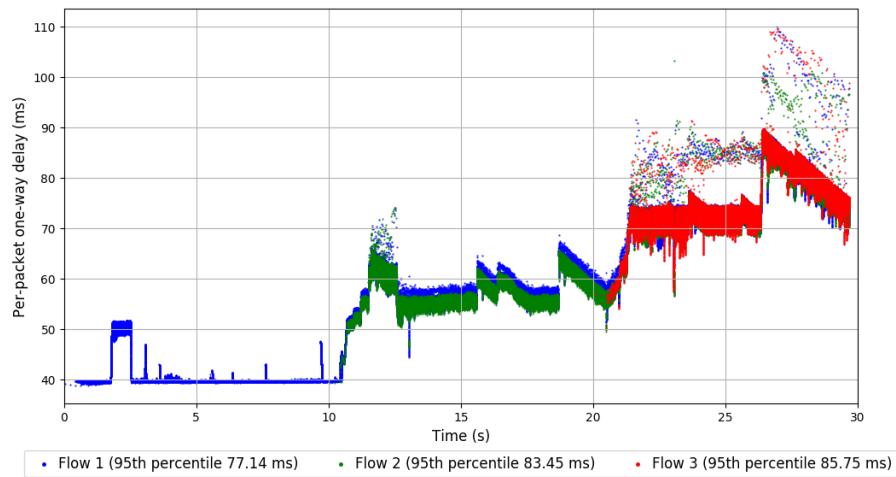
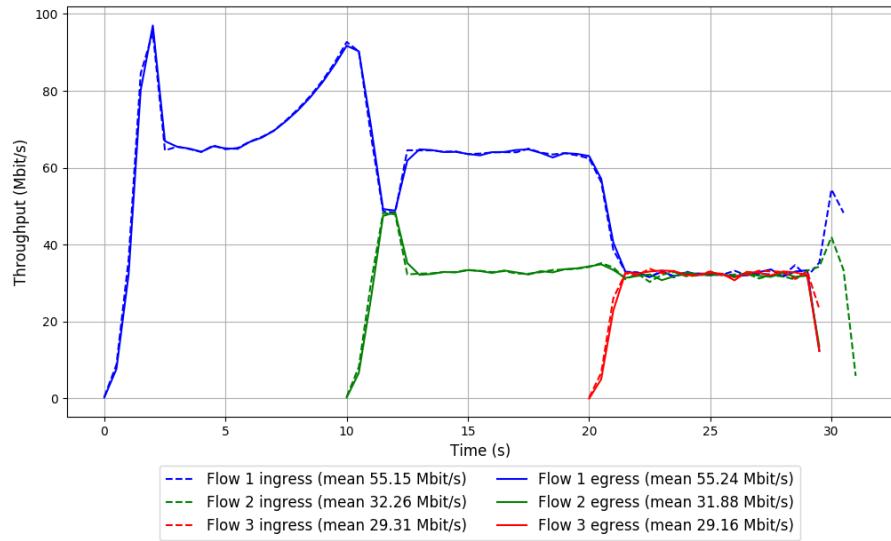


Run 1: Statistics of PCC-Allegro

```
Start at: 2018-04-24 16:58:42
End at: 2018-04-24 16:59:12
Local clock offset: -5.458 ms
Remote clock offset: -11.595 ms

# Below is generated by plot.py at 2018-04-25 00:44:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.80 Mbit/s
95th percentile per-packet one-way delay: 82.434 ms
Loss rate: 4.74%
-- Flow 1:
Average throughput: 55.24 Mbit/s
95th percentile per-packet one-way delay: 77.141 ms
Loss rate: 3.82%
-- Flow 2:
Average throughput: 31.88 Mbit/s
95th percentile per-packet one-way delay: 83.455 ms
Loss rate: 7.87%
-- Flow 3:
Average throughput: 29.16 Mbit/s
95th percentile per-packet one-way delay: 85.748 ms
Loss rate: 2.83%
```

Run 1: Report of PCC-Allegro — Data Link

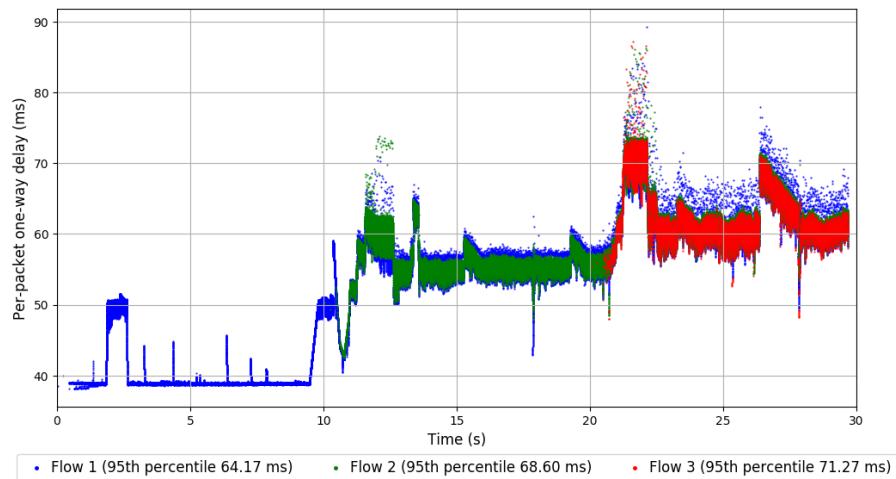
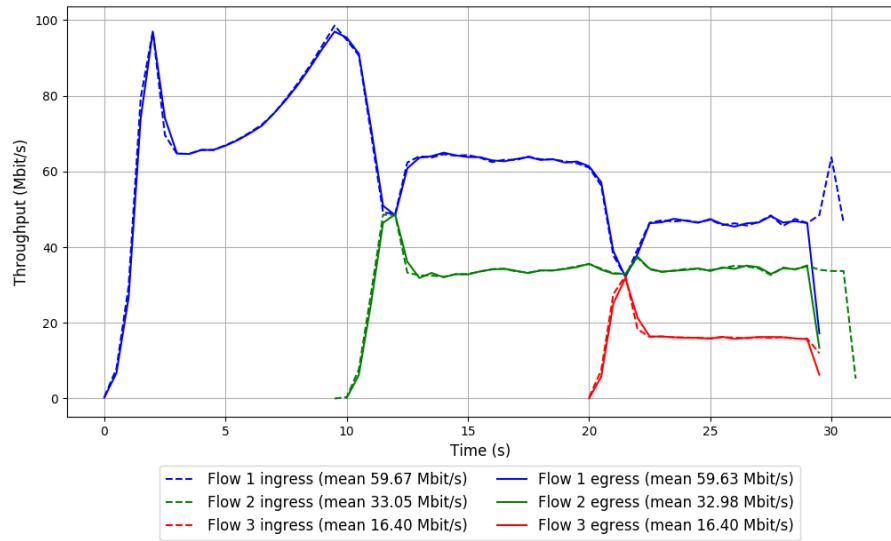


Run 2: Statistics of PCC-Allegro

```
Start at: 2018-04-24 17:21:34
End at: 2018-04-24 17:22:04
Local clock offset: -1.032 ms
Remote clock offset: -6.18 ms

# Below is generated by plot.py at 2018-04-25 00:44:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.80 Mbit/s
95th percentile per-packet one-way delay: 67.072 ms
Loss rate: 4.68%
-- Flow 1:
Average throughput: 59.63 Mbit/s
95th percentile per-packet one-way delay: 64.172 ms
Loss rate: 4.00%
-- Flow 2:
Average throughput: 32.98 Mbit/s
95th percentile per-packet one-way delay: 68.603 ms
Loss rate: 7.01%
-- Flow 3:
Average throughput: 16.40 Mbit/s
95th percentile per-packet one-way delay: 71.268 ms
Loss rate: 2.40%
```

Run 2: Report of PCC-Allegro — Data Link

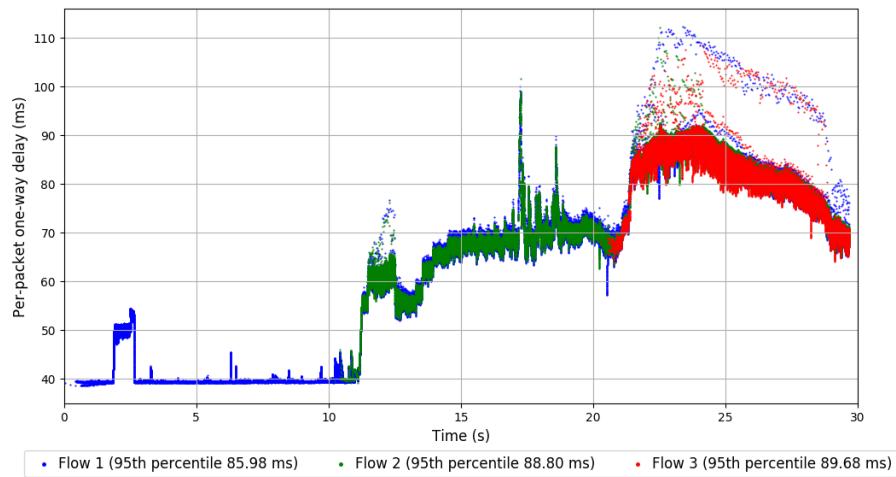
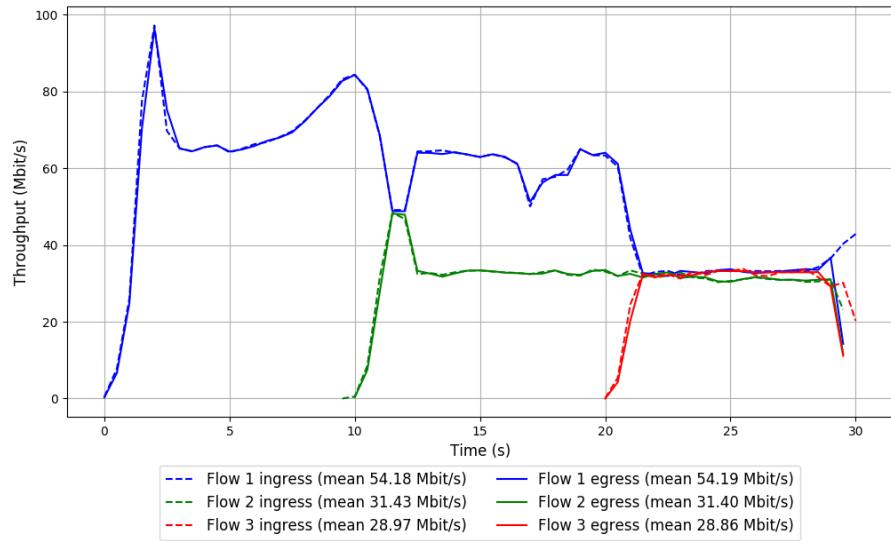


Run 3: Statistics of PCC-Allegro

```
Start at: 2018-04-24 17:44:39
End at: 2018-04-24 17:45:09
Local clock offset: -3.704 ms
Remote clock offset: -2.424 ms

# Below is generated by plot.py at 2018-04-25 00:44:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.35 Mbit/s
95th percentile per-packet one-way delay: 87.926 ms
Loss rate: 2.60%
-- Flow 1:
Average throughput: 54.19 Mbit/s
95th percentile per-packet one-way delay: 85.983 ms
Loss rate: 2.27%
-- Flow 2:
Average throughput: 31.40 Mbit/s
95th percentile per-packet one-way delay: 88.803 ms
Loss rate: 1.25%
-- Flow 3:
Average throughput: 28.86 Mbit/s
95th percentile per-packet one-way delay: 89.681 ms
Loss rate: 7.22%
```

Run 3: Report of PCC-Allegro — Data Link

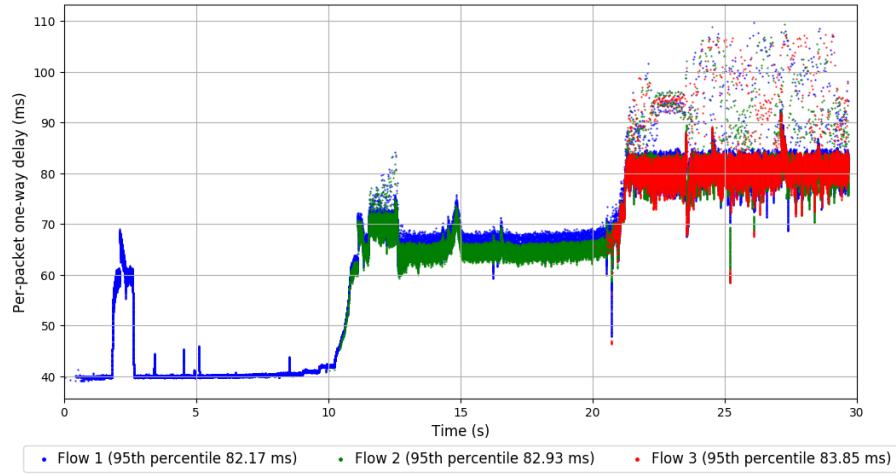
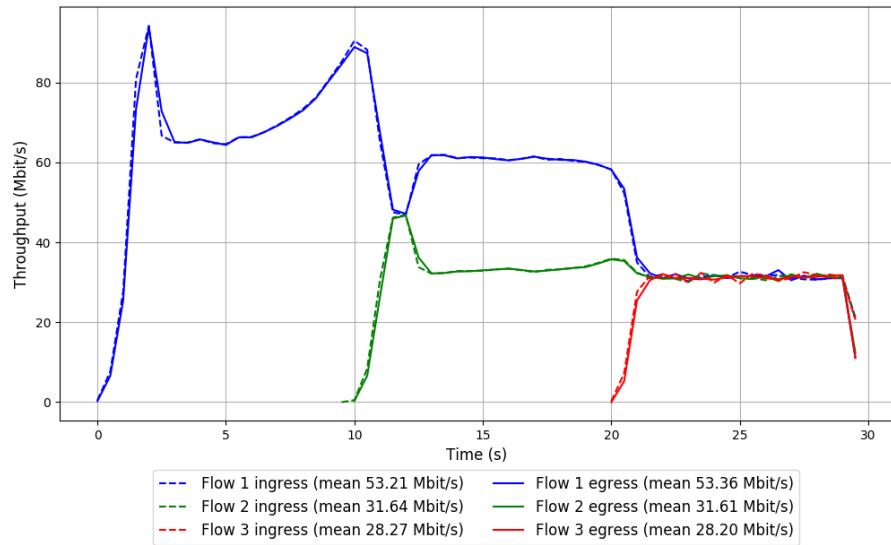


Run 4: Statistics of PCC-Allegro

```
Start at: 2018-04-24 18:07:33
End at: 2018-04-24 18:08:03
Local clock offset: -6.407 ms
Remote clock offset: -1.782 ms

# Below is generated by plot.py at 2018-04-25 00:44:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.44 Mbit/s
95th percentile per-packet one-way delay: 82.858 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 53.36 Mbit/s
95th percentile per-packet one-way delay: 82.168 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 31.61 Mbit/s
95th percentile per-packet one-way delay: 82.932 ms
Loss rate: 1.13%
-- Flow 3:
Average throughput: 28.20 Mbit/s
95th percentile per-packet one-way delay: 83.846 ms
Loss rate: 2.59%
```

Run 4: Report of PCC-Allegro — Data Link

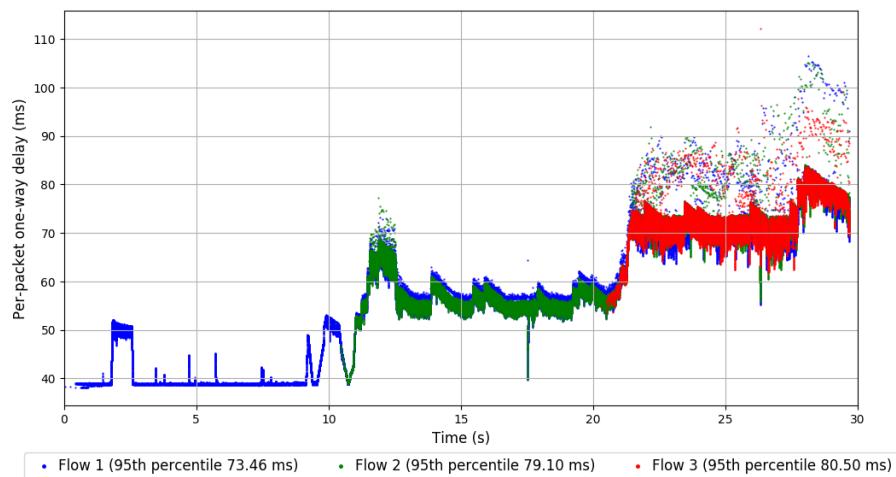
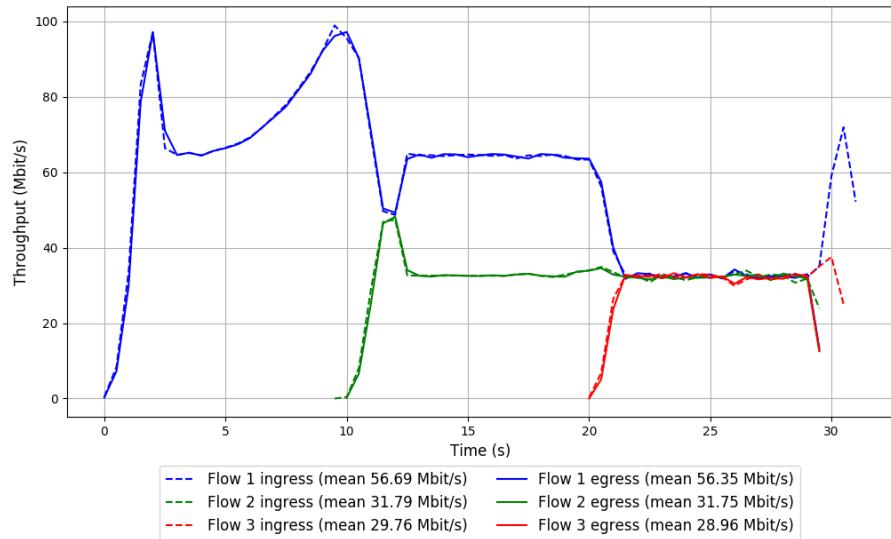


Run 5: Statistics of PCC-Allegro

```
Start at: 2018-04-24 18:30:26
End at: 2018-04-24 18:30:56
Local clock offset: -0.959 ms
Remote clock offset: -1.44 ms

# Below is generated by plot.py at 2018-04-25 00:44:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.76 Mbit/s
95th percentile per-packet one-way delay: 77.860 ms
Loss rate: 5.77%
-- Flow 1:
Average throughput: 56.35 Mbit/s
95th percentile per-packet one-way delay: 73.463 ms
Loss rate: 5.91%
-- Flow 2:
Average throughput: 31.75 Mbit/s
95th percentile per-packet one-way delay: 79.098 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 28.96 Mbit/s
95th percentile per-packet one-way delay: 80.502 ms
Loss rate: 13.86%
```

Run 5: Report of PCC-Allegro — Data Link

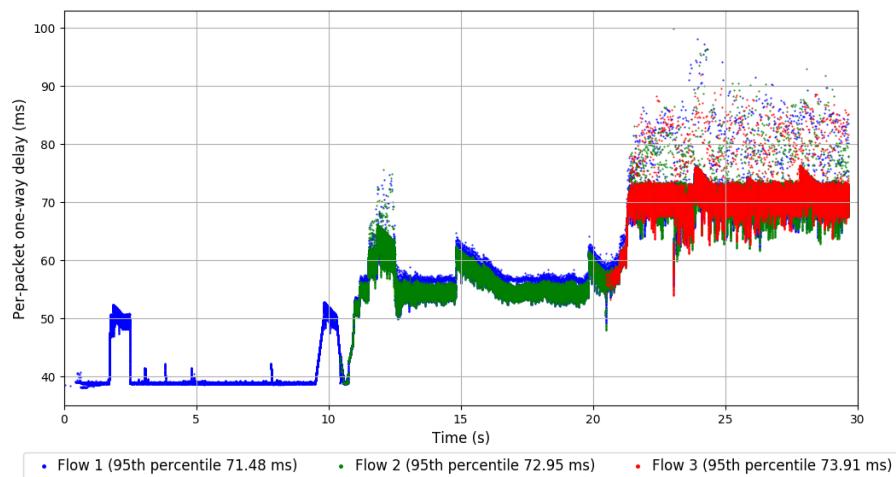
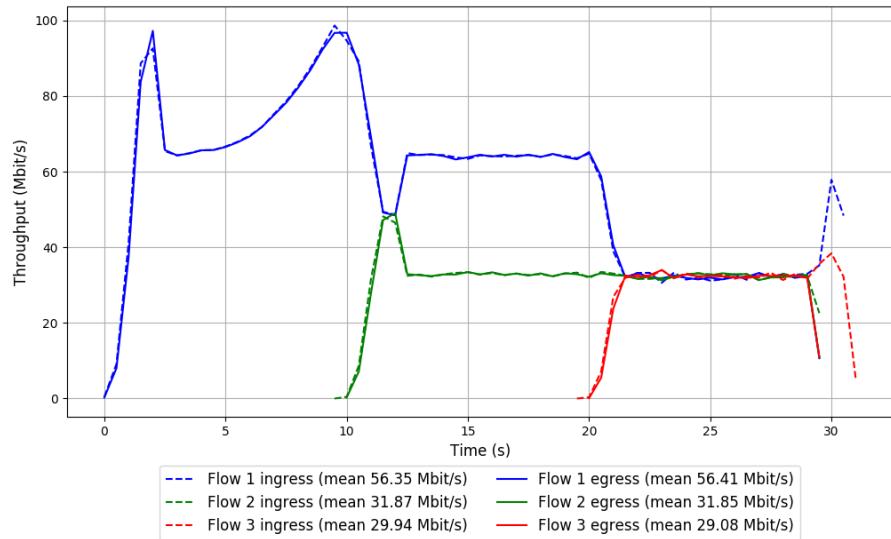


Run 6: Statistics of PCC-Allegro

```
Start at: 2018-04-24 18:53:18
End at: 2018-04-24 18:53:48
Local clock offset: 1.632 ms
Remote clock offset: -1.523 ms

# Below is generated by plot.py at 2018-04-25 00:45:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.95 Mbit/s
95th percentile per-packet one-way delay: 72.569 ms
Loss rate: 4.75%
-- Flow 1:
Average throughput: 56.41 Mbit/s
95th percentile per-packet one-way delay: 71.484 ms
Loss rate: 3.90%
-- Flow 2:
Average throughput: 31.85 Mbit/s
95th percentile per-packet one-way delay: 72.946 ms
Loss rate: 1.30%
-- Flow 3:
Average throughput: 29.08 Mbit/s
95th percentile per-packet one-way delay: 73.910 ms
Loss rate: 15.80%
```

Run 6: Report of PCC-Allegro — Data Link

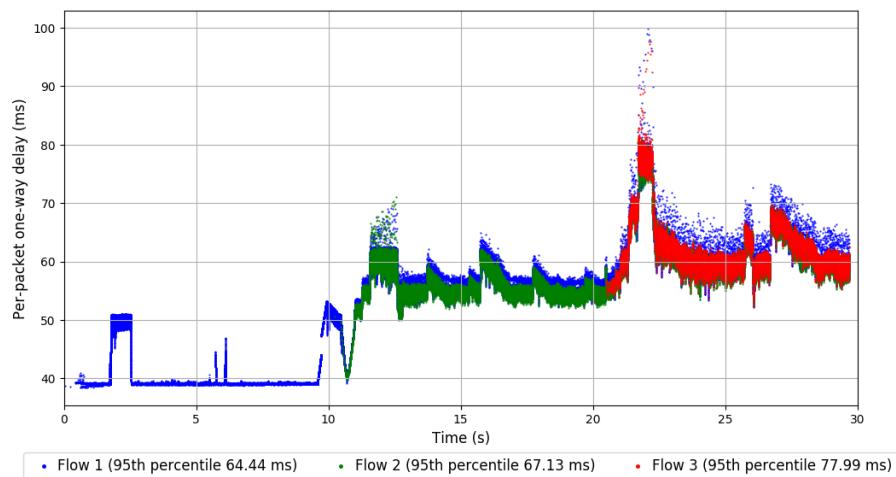
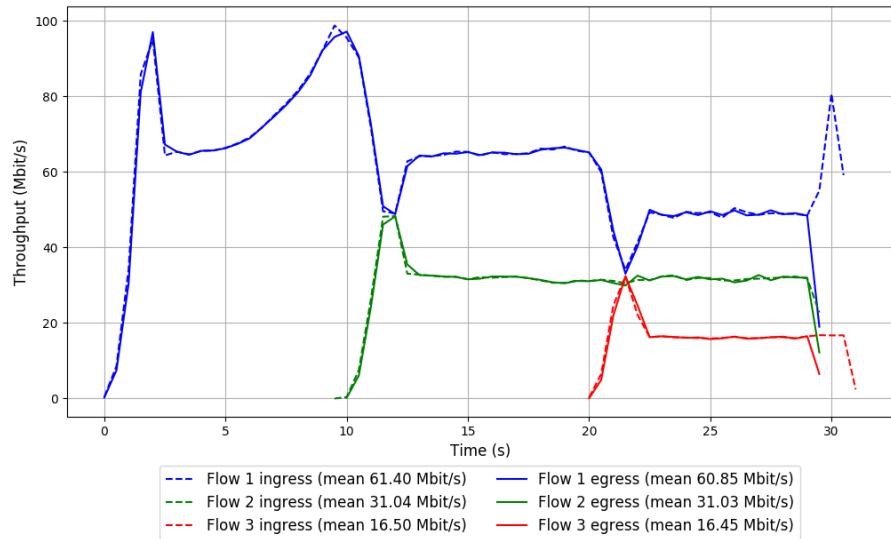


Run 7: Statistics of PCC-Allegro

```
Start at: 2018-04-24 19:16:12
End at: 2018-04-24 19:16:42
Local clock offset: 3.393 ms
Remote clock offset: -1.345 ms

# Below is generated by plot.py at 2018-04-25 00:45:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.73 Mbit/s
95th percentile per-packet one-way delay: 66.281 ms
Loss rate: 4.53%
-- Flow 1:
Average throughput: 60.85 Mbit/s
95th percentile per-packet one-way delay: 64.439 ms
Loss rate: 4.79%
-- Flow 2:
Average throughput: 31.03 Mbit/s
95th percentile per-packet one-way delay: 67.129 ms
Loss rate: 1.16%
-- Flow 3:
Average throughput: 16.45 Mbit/s
95th percentile per-packet one-way delay: 77.990 ms
Loss rate: 13.19%
```

Run 7: Report of PCC-Allegro — Data Link

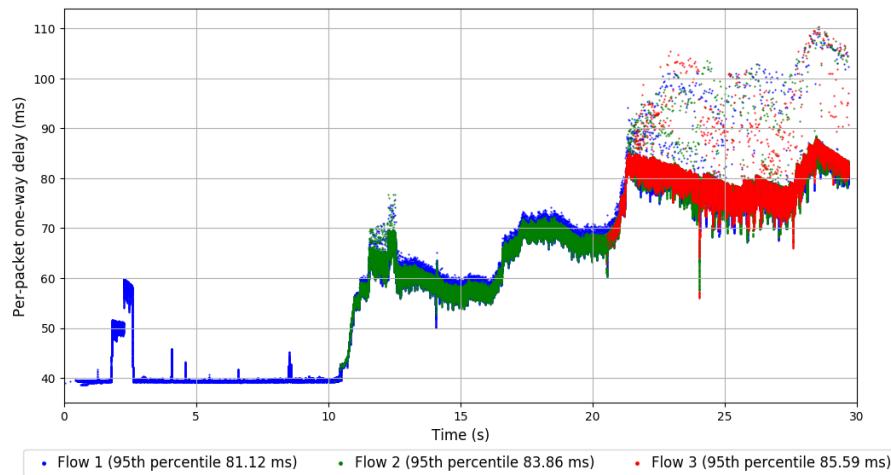
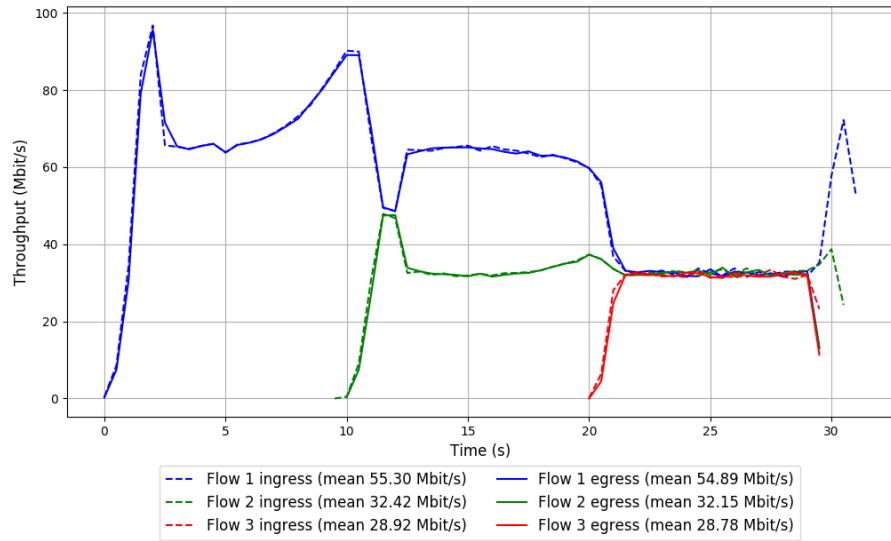


Run 8: Statistics of PCC-Allegro

```
Start at: 2018-04-24 19:39:01
End at: 2018-04-24 19:39:31
Local clock offset: -2.358 ms
Remote clock offset: -0.917 ms

# Below is generated by plot.py at 2018-04-25 00:45:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.51 Mbit/s
95th percentile per-packet one-way delay: 83.294 ms
Loss rate: 5.89%
-- Flow 1:
Average throughput: 54.89 Mbit/s
95th percentile per-packet one-way delay: 81.125 ms
Loss rate: 6.06%
-- Flow 2:
Average throughput: 32.15 Mbit/s
95th percentile per-packet one-way delay: 83.862 ms
Loss rate: 6.73%
-- Flow 3:
Average throughput: 28.78 Mbit/s
95th percentile per-packet one-way delay: 85.592 ms
Loss rate: 2.86%
```

Run 8: Report of PCC-Allegro — Data Link

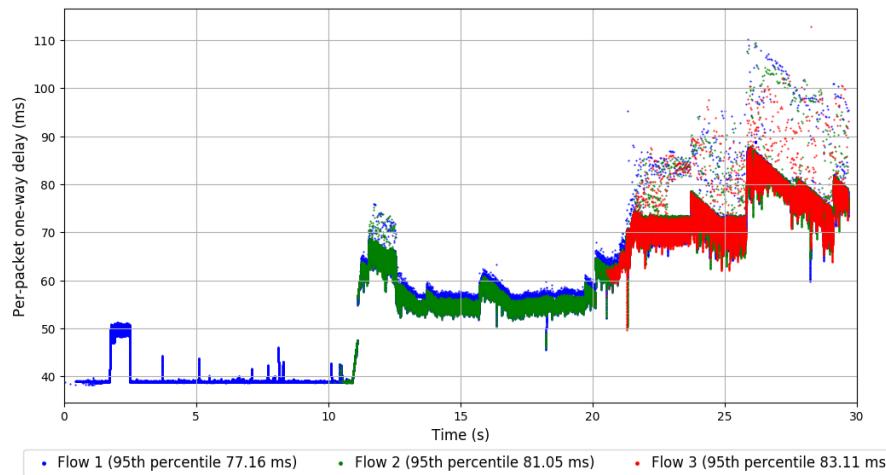
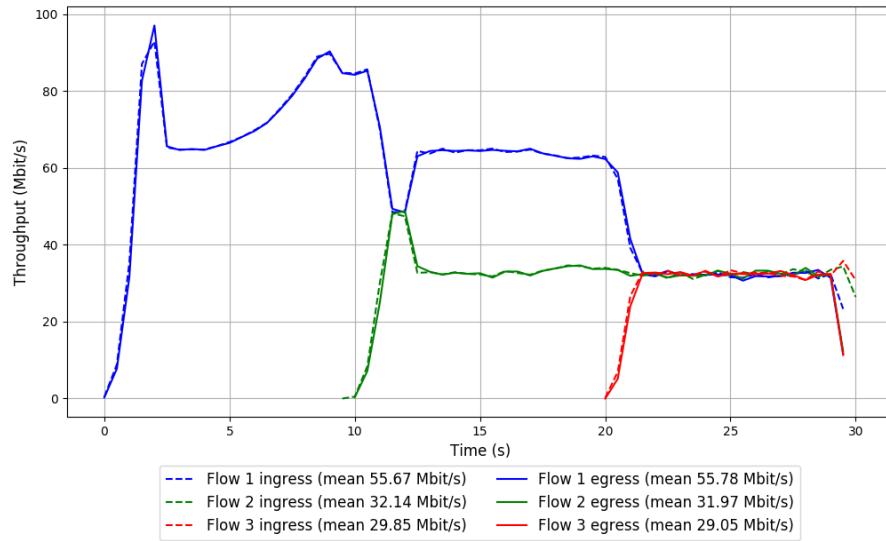


Run 9: Statistics of PCC-Allegro

```
Start at: 2018-04-24 20:01:54
End at: 2018-04-24 20:02:24
Local clock offset: 1.98 ms
Remote clock offset: -0.792 ms

# Below is generated by plot.py at 2018-04-25 00:45:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.37 Mbit/s
95th percentile per-packet one-way delay: 80.241 ms
Loss rate: 2.48%
-- Flow 1:
Average throughput: 55.78 Mbit/s
95th percentile per-packet one-way delay: 77.158 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 31.97 Mbit/s
95th percentile per-packet one-way delay: 81.052 ms
Loss rate: 4.14%
-- Flow 3:
Average throughput: 29.05 Mbit/s
95th percentile per-packet one-way delay: 83.114 ms
Loss rate: 9.72%
```

Run 9: Report of PCC-Allegro — Data Link

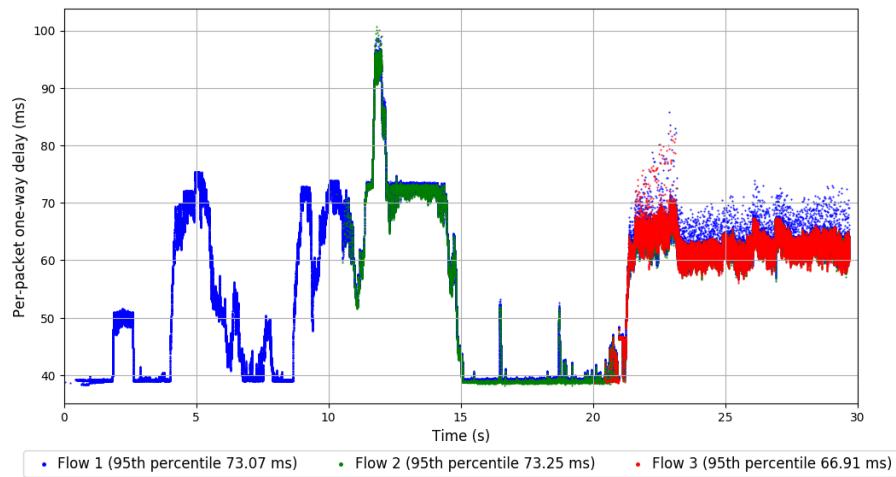
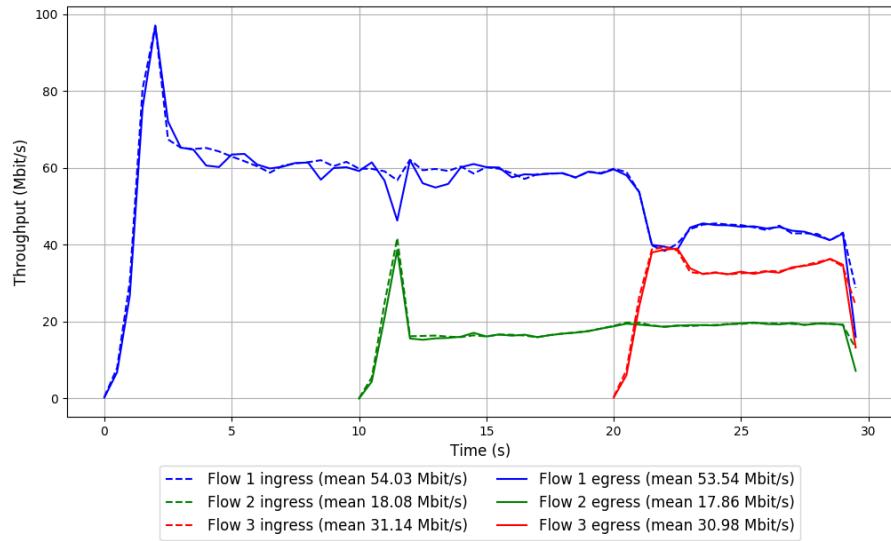


Run 10: Statistics of PCC-Allegro

```
Start at: 2018-04-24 20:25:03
End at: 2018-04-24 20:25:33
Local clock offset: 5.89 ms
Remote clock offset: -0.634 ms

# Below is generated by plot.py at 2018-04-25 00:45:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.41 Mbit/s
95th percentile per-packet one-way delay: 72.980 ms
Loss rate: 1.83%
-- Flow 1:
Average throughput: 53.54 Mbit/s
95th percentile per-packet one-way delay: 73.067 ms
Loss rate: 1.60%
-- Flow 2:
Average throughput: 17.86 Mbit/s
95th percentile per-packet one-way delay: 73.248 ms
Loss rate: 2.36%
-- Flow 3:
Average throughput: 30.98 Mbit/s
95th percentile per-packet one-way delay: 66.911 ms
Loss rate: 2.47%
```

Run 10: Report of PCC-Allegro — Data Link

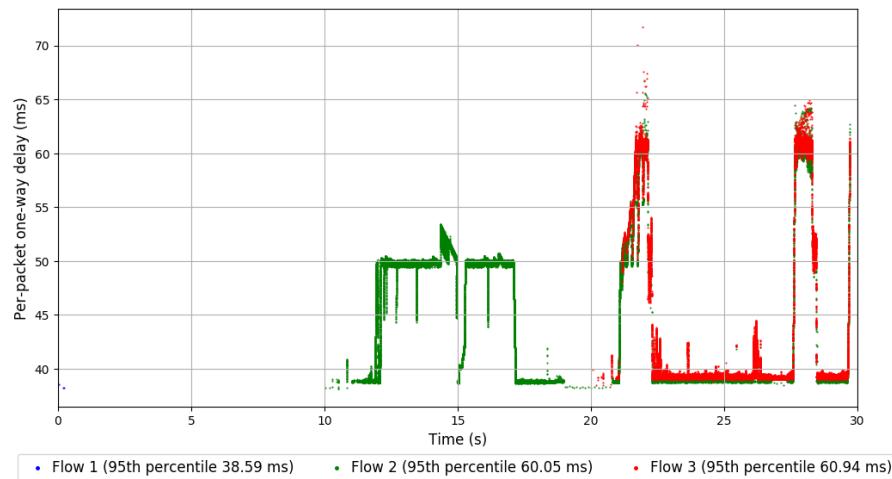
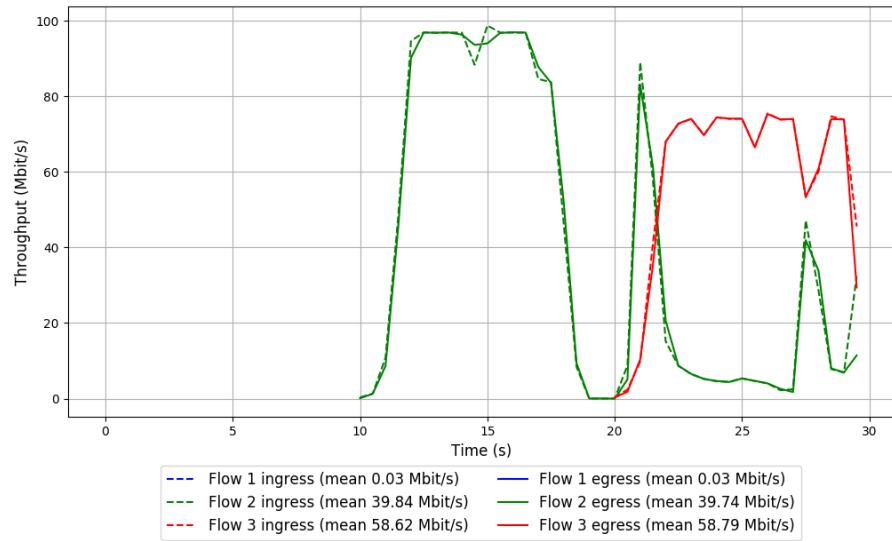


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-04-24 17:12:07
End at: 2018-04-24 17:12:37
Local clock offset: -1.878 ms
Remote clock offset: -5.911 ms

# Below is generated by plot.py at 2018-04-25 00:45:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 45.48 Mbit/s
95th percentile per-packet one-way delay: 60.507 ms
Loss rate: 1.58%
-- Flow 1:
Average throughput: 0.03 Mbit/s
95th percentile per-packet one-way delay: 38.587 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.74 Mbit/s
95th percentile per-packet one-way delay: 60.051 ms
Loss rate: 1.36%
-- Flow 3:
Average throughput: 58.79 Mbit/s
95th percentile per-packet one-way delay: 60.936 ms
Loss rate: 1.89%
```

Run 1: Report of QUIC Cubic — Data Link

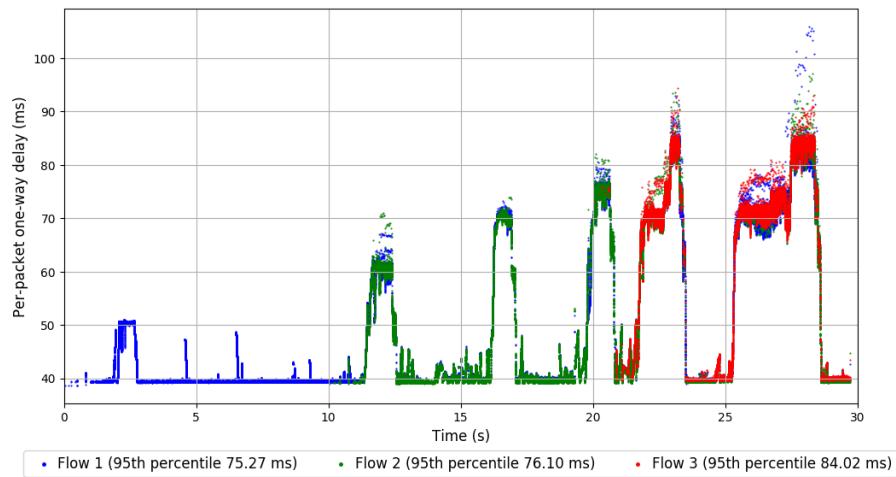
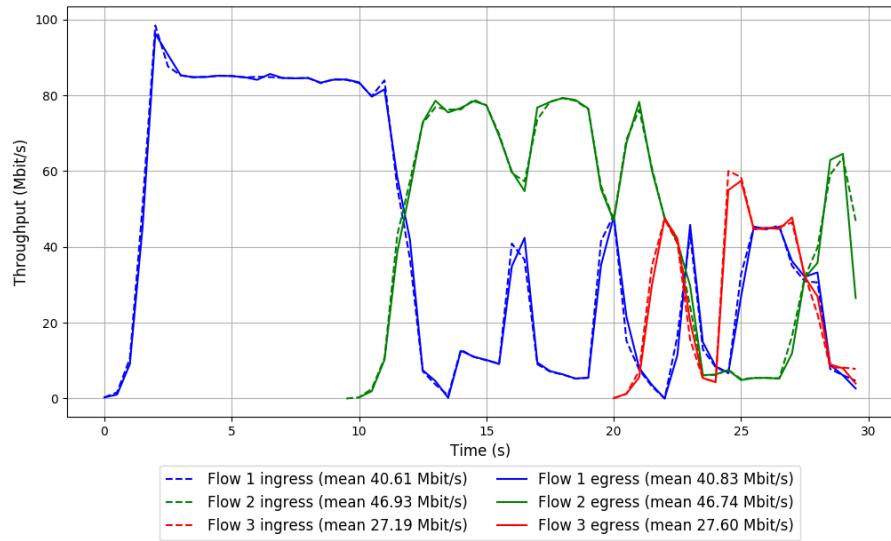


Run 2: Statistics of QUIC Cubic

```
Start at: 2018-04-24 17:34:59
End at: 2018-04-24 17:35:29
Local clock offset: -1.085 ms
Remote clock offset: -3.987 ms

# Below is generated by plot.py at 2018-04-25 00:45:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.79 Mbit/s
95th percentile per-packet one-way delay: 79.180 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 40.83 Mbit/s
95th percentile per-packet one-way delay: 75.273 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 46.74 Mbit/s
95th percentile per-packet one-way delay: 76.101 ms
Loss rate: 1.34%
-- Flow 3:
Average throughput: 27.60 Mbit/s
95th percentile per-packet one-way delay: 84.020 ms
Loss rate: 0.86%
```

Run 2: Report of QUIC Cubic — Data Link

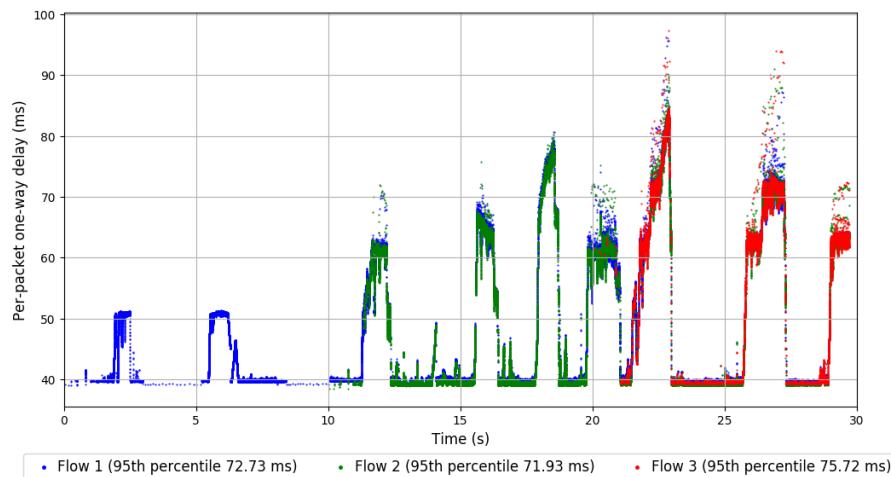
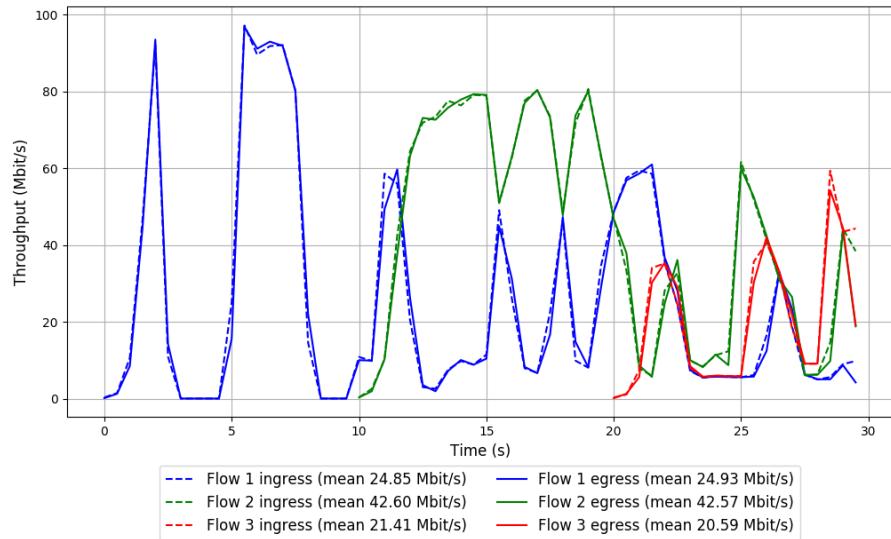


Run 3: Statistics of QUIC Cubic

```
Start at: 2018-04-24 17:58:05
End at: 2018-04-24 17:58:35
Local clock offset: -5.491 ms
Remote clock offset: -2.082 ms

# Below is generated by plot.py at 2018-04-25 00:46:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 59.83 Mbit/s
95th percentile per-packet one-way delay: 72.628 ms
Loss rate: 1.73%
-- Flow 1:
Average throughput: 24.93 Mbit/s
95th percentile per-packet one-way delay: 72.731 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 42.57 Mbit/s
95th percentile per-packet one-way delay: 71.926 ms
Loss rate: 1.50%
-- Flow 3:
Average throughput: 20.59 Mbit/s
95th percentile per-packet one-way delay: 75.722 ms
Loss rate: 7.05%
```

Run 3: Report of QUIC Cubic — Data Link

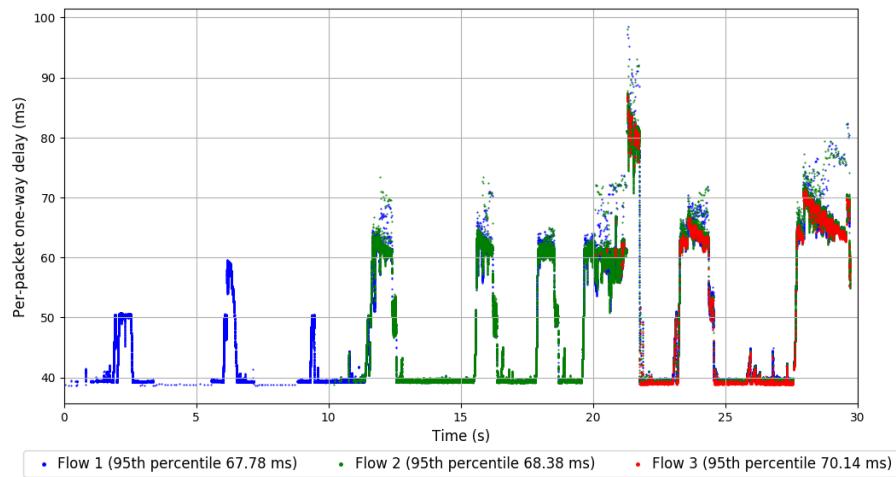
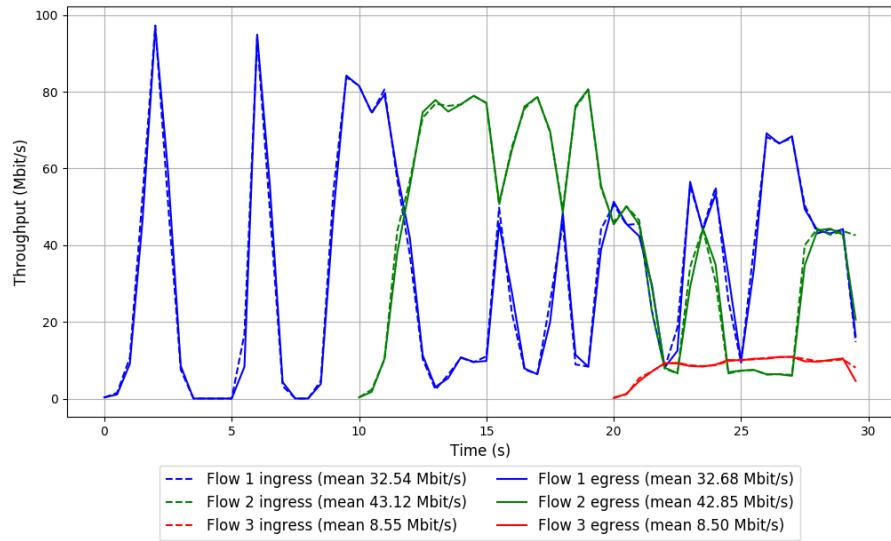


Run 4: Statistics of QUIC Cubic

```
Start at: 2018-04-24 18:20:58
End at: 2018-04-24 18:21:28
Local clock offset: -1.942 ms
Remote clock offset: -1.318 ms

# Below is generated by plot.py at 2018-04-25 00:46:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 63.86 Mbit/s
95th percentile per-packet one-way delay: 68.286 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 32.68 Mbit/s
95th percentile per-packet one-way delay: 67.783 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 42.85 Mbit/s
95th percentile per-packet one-way delay: 68.383 ms
Loss rate: 1.63%
-- Flow 3:
Average throughput: 8.50 Mbit/s
95th percentile per-packet one-way delay: 70.137 ms
Loss rate: 2.79%
```

Run 4: Report of QUIC Cubic — Data Link

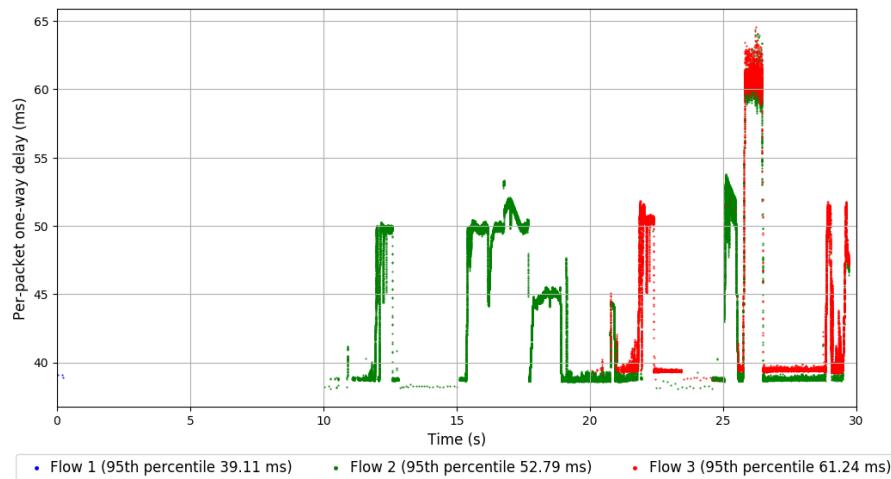
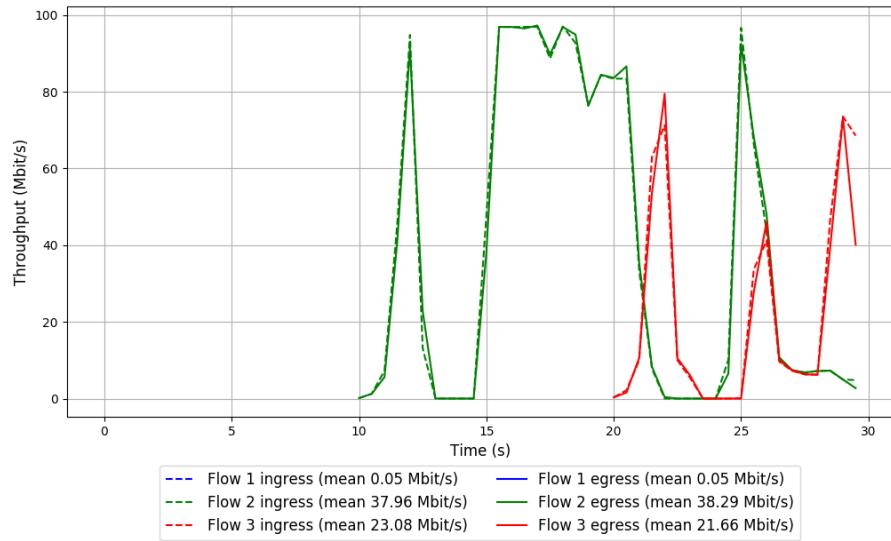


Run 5: Statistics of QUIC Cubic

```
Start at: 2018-04-24 18:43:53
End at: 2018-04-24 18:44:23
Local clock offset: -0.242 ms
Remote clock offset: -1.5 ms

# Below is generated by plot.py at 2018-04-25 00:46:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 32.44 Mbit/s
95th percentile per-packet one-way delay: 60.310 ms
Loss rate: 1.99%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 39.106 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 38.29 Mbit/s
95th percentile per-packet one-way delay: 52.787 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 21.66 Mbit/s
95th percentile per-packet one-way delay: 61.242 ms
Loss rate: 8.01%
```

Run 5: Report of QUIC Cubic — Data Link

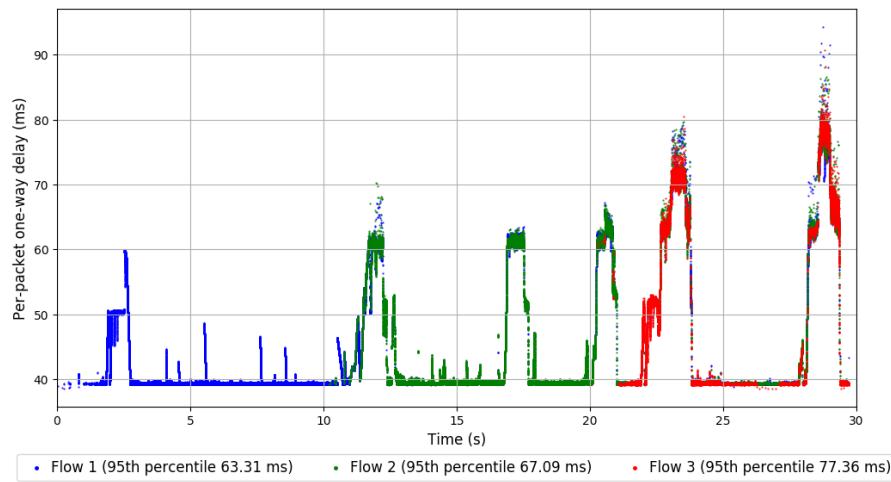
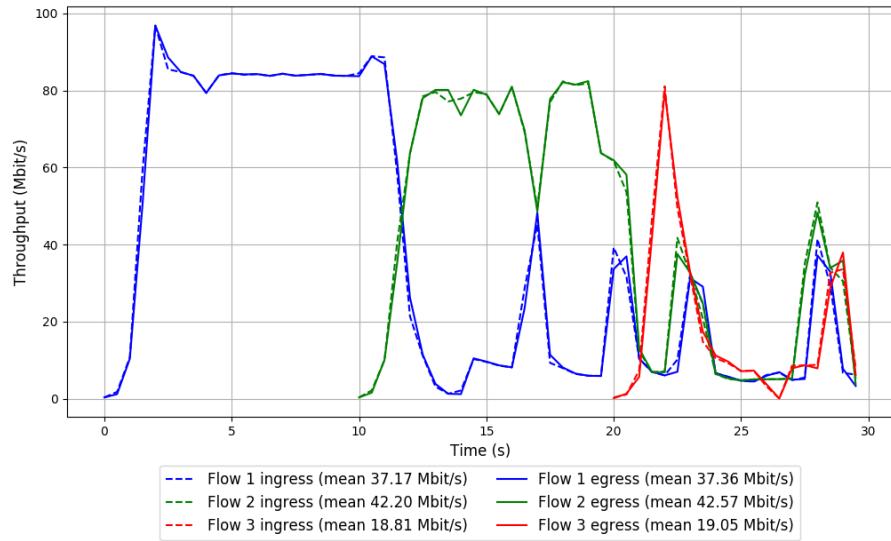


Run 6: Statistics of QUIC Cubic

```
Start at: 2018-04-24 19:06:45
End at: 2018-04-24 19:07:15
Local clock offset: 2.94 ms
Remote clock offset: -1.67 ms

# Below is generated by plot.py at 2018-04-25 00:46:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 71.75 Mbit/s
95th percentile per-packet one-way delay: 68.015 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 37.36 Mbit/s
95th percentile per-packet one-way delay: 63.310 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 42.57 Mbit/s
95th percentile per-packet one-way delay: 67.087 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 19.05 Mbit/s
95th percentile per-packet one-way delay: 77.358 ms
Loss rate: 0.81%
```

Run 6: Report of QUIC Cubic — Data Link

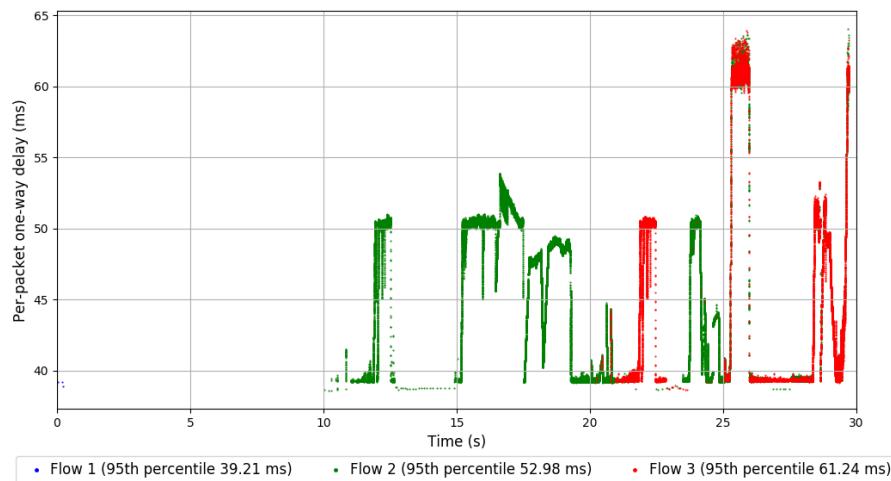
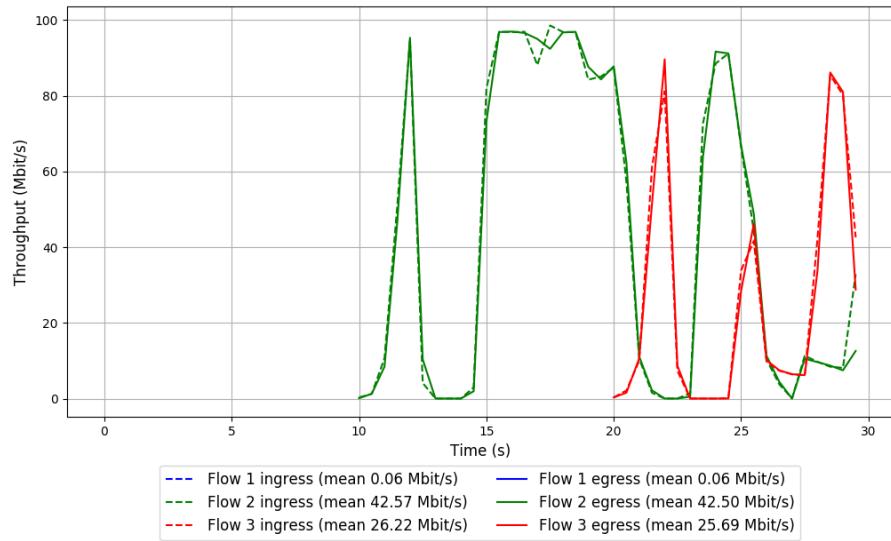


Run 7: Statistics of QUIC Cubic

```
Start at: 2018-04-24 19:29:37
End at: 2018-04-24 19:30:07
Local clock offset: -1.461 ms
Remote clock offset: -0.964 ms

# Below is generated by plot.py at 2018-04-25 00:46:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 36.53 Mbit/s
95th percentile per-packet one-way delay: 60.739 ms
Loss rate: 1.94%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 39.206 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 42.50 Mbit/s
95th percentile per-packet one-way delay: 52.984 ms
Loss rate: 1.27%
-- Flow 3:
Average throughput: 25.69 Mbit/s
95th percentile per-packet one-way delay: 61.236 ms
Loss rate: 4.11%
```

Run 7: Report of QUIC Cubic — Data Link

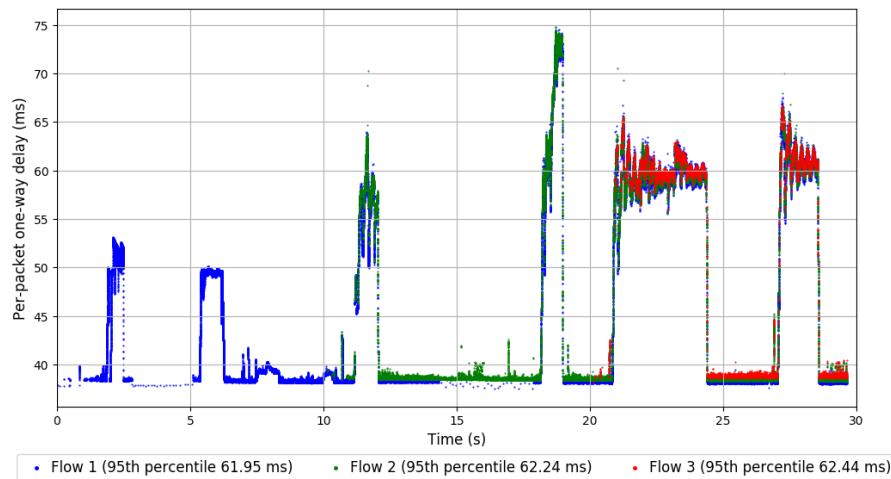
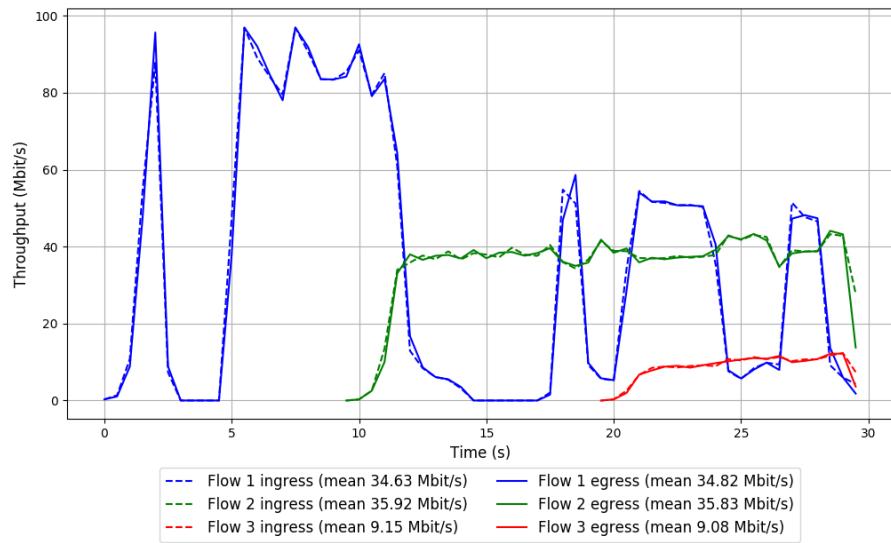


Run 8: Statistics of QUIC Cubic

```
Start at: 2018-04-24 19:52:27
End at: 2018-04-24 19:52:57
Local clock offset: -2.647 ms
Remote clock offset: -0.783 ms

# Below is generated by plot.py at 2018-04-25 00:46:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 61.59 Mbit/s
95th percentile per-packet one-way delay: 62.125 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 34.82 Mbit/s
95th percentile per-packet one-way delay: 61.948 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 35.83 Mbit/s
95th percentile per-packet one-way delay: 62.236 ms
Loss rate: 1.21%
-- Flow 3:
Average throughput: 9.08 Mbit/s
95th percentile per-packet one-way delay: 62.440 ms
Loss rate: 2.64%
```

Run 8: Report of QUIC Cubic — Data Link

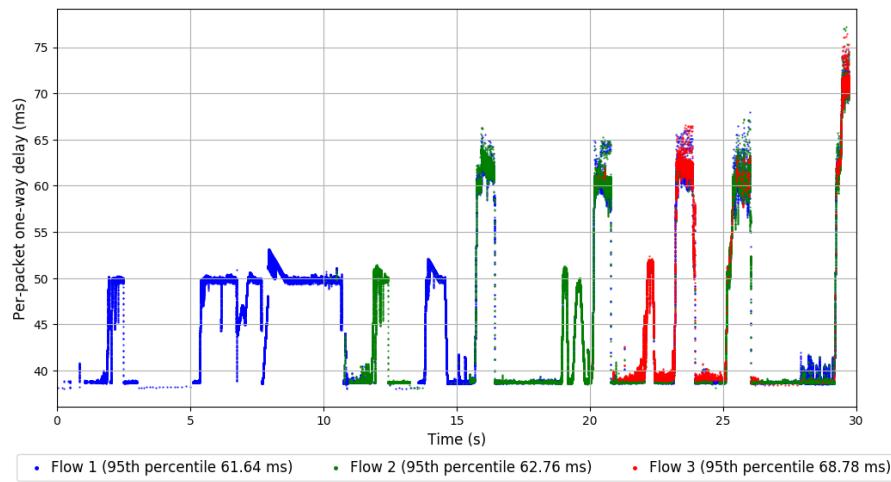
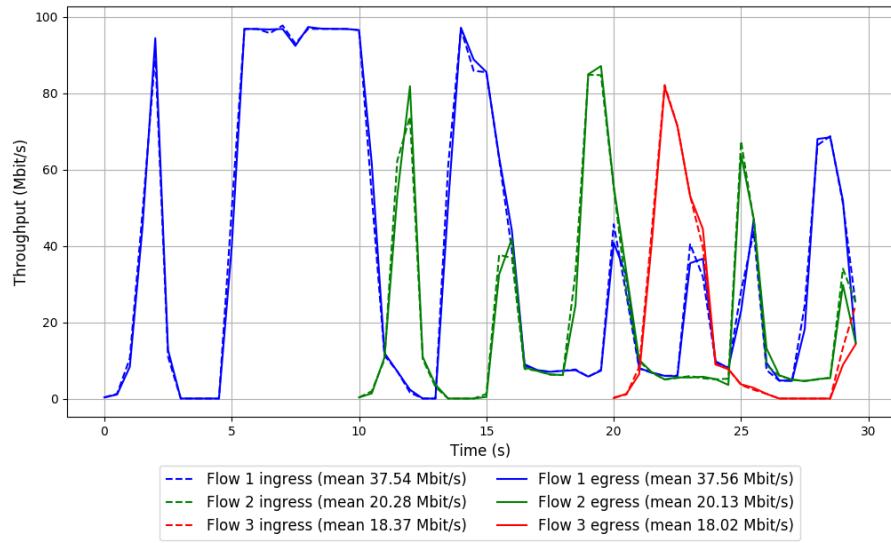


Run 9: Statistics of QUIC Cubic

```
Start at: 2018-04-24 20:15:34
End at: 2018-04-24 20:16:04
Local clock offset: 4.716 ms
Remote clock offset: -0.684 ms

# Below is generated by plot.py at 2018-04-25 00:46:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 56.75 Mbit/s
95th percentile per-packet one-way delay: 62.285 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 37.56 Mbit/s
95th percentile per-packet one-way delay: 61.638 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 20.13 Mbit/s
95th percentile per-packet one-way delay: 62.757 ms
Loss rate: 1.91%
-- Flow 3:
Average throughput: 18.02 Mbit/s
95th percentile per-packet one-way delay: 68.781 ms
Loss rate: 4.08%
```

Run 9: Report of QUIC Cubic — Data Link

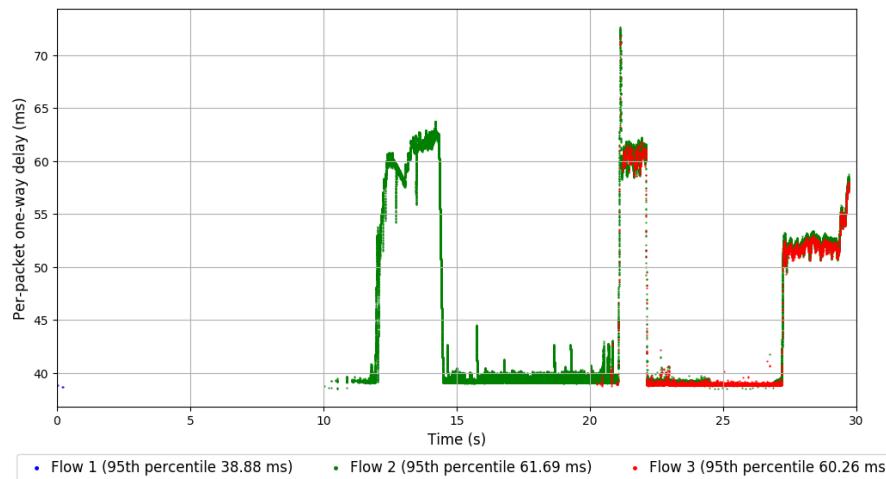
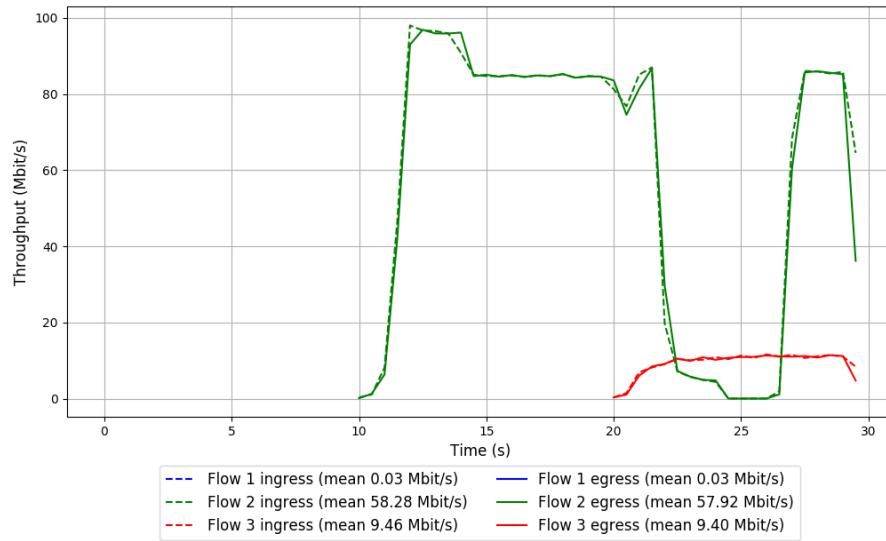


Run 10: Statistics of QUIC Cubic

```
Start at: 2018-04-24 20:38:27
End at: 2018-04-24 20:38:57
Local clock offset: 3.962 ms
Remote clock offset: -0.519 ms

# Below is generated by plot.py at 2018-04-25 00:46:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 41.45 Mbit/s
95th percentile per-packet one-way delay: 61.645 ms
Loss rate: 1.70%
-- Flow 1:
Average throughput: 0.03 Mbit/s
95th percentile per-packet one-way delay: 38.879 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 57.92 Mbit/s
95th percentile per-packet one-way delay: 61.690 ms
Loss rate: 1.63%
-- Flow 3:
Average throughput: 9.40 Mbit/s
95th percentile per-packet one-way delay: 60.257 ms
Loss rate: 2.56%
```

Run 10: Report of QUIC Cubic — Data Link

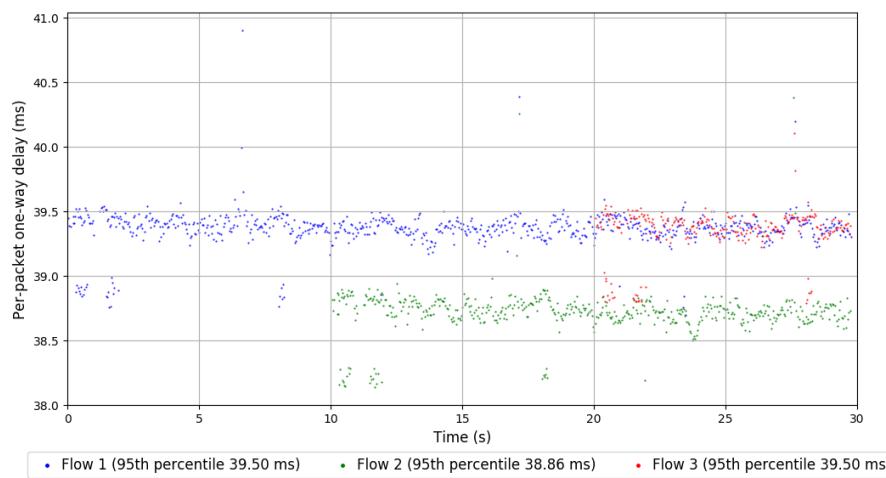
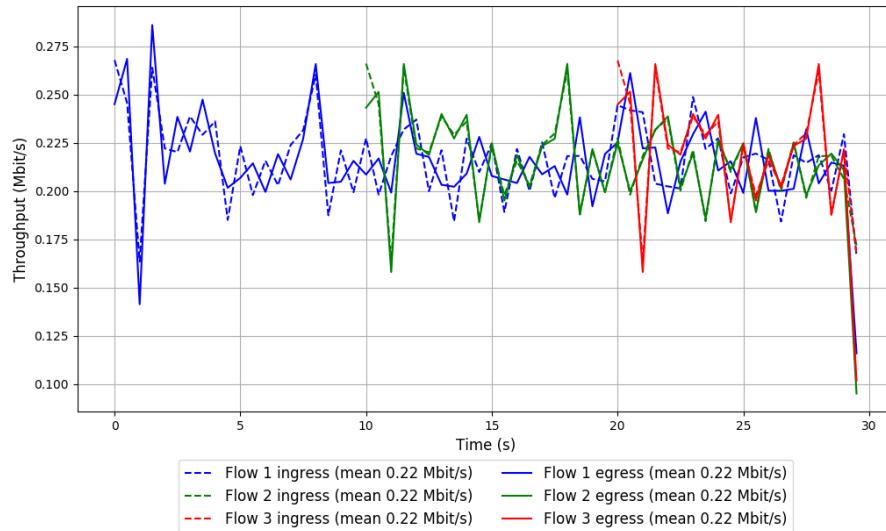


```
Run 1: Statistics of SCReAM

Start at: 2018-04-24 17:05:21
End at: 2018-04-24 17:05:51
Local clock offset: -3.598 ms
Remote clock offset: -7.281 ms

# Below is generated by plot.py at 2018-04-25 00:46:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 39.482 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 39.497 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 38.856 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 39.503 ms
Loss rate: 1.86%
```

Run 1: Report of SCReAM — Data Link

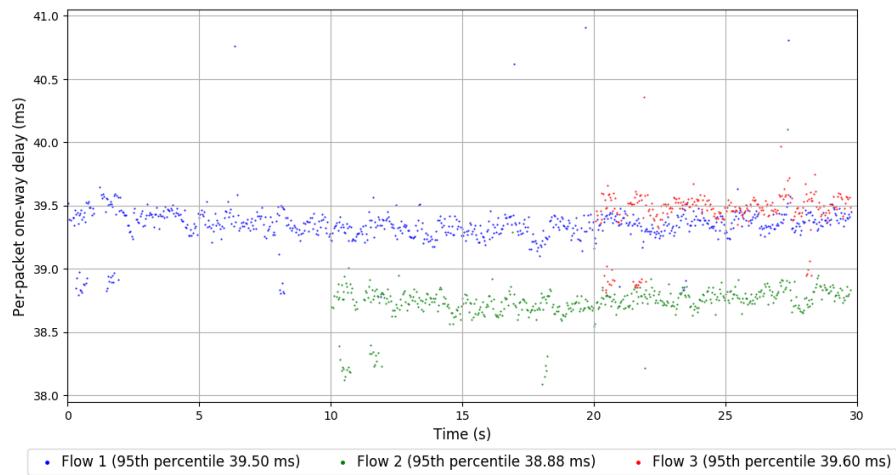
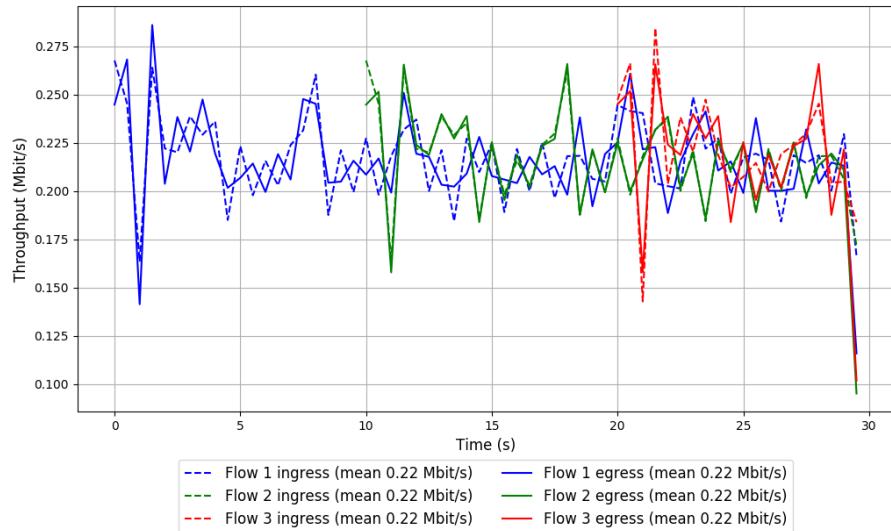


Run 2: Statistics of SCReAM

```
Start at: 2018-04-24 17:28:14
End at: 2018-04-24 17:28:44
Local clock offset: -1.081 ms
Remote clock offset: -6.997 ms

# Below is generated by plot.py at 2018-04-25 00:46:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 39.547 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 39.499 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 38.875 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 39.596 ms
Loss rate: 1.86%
```

Run 2: Report of SCReAM — Data Link

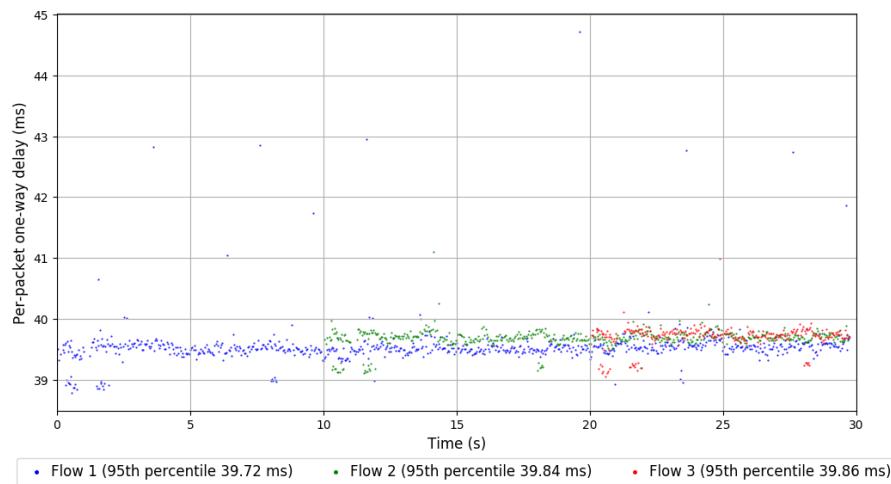
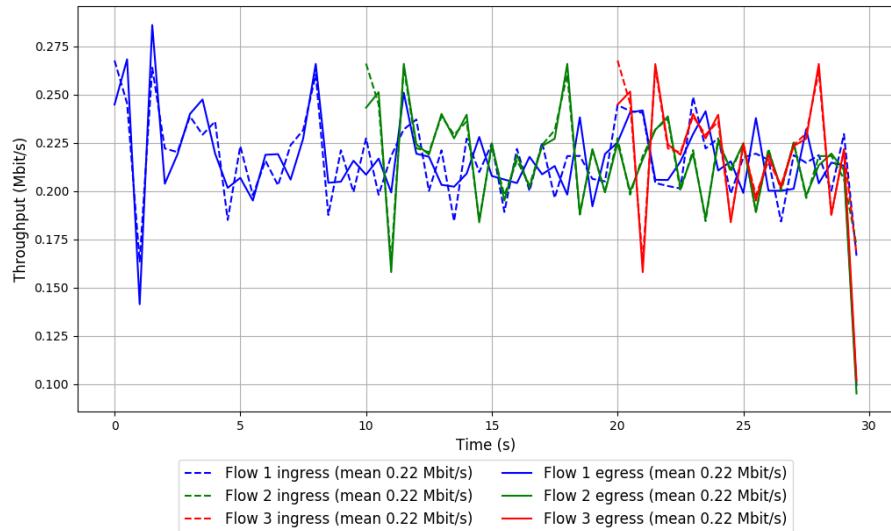


Run 3: Statistics of SCReAM

```
Start at: 2018-04-24 17:51:18
End at: 2018-04-24 17:51:48
Local clock offset: -4.649 ms
Remote clock offset: -1.988 ms

# Below is generated by plot.py at 2018-04-25 00:46:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 39.831 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 39.722 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 39.835 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 39.856 ms
Loss rate: 1.86%
```

Run 3: Report of SCReAM — Data Link

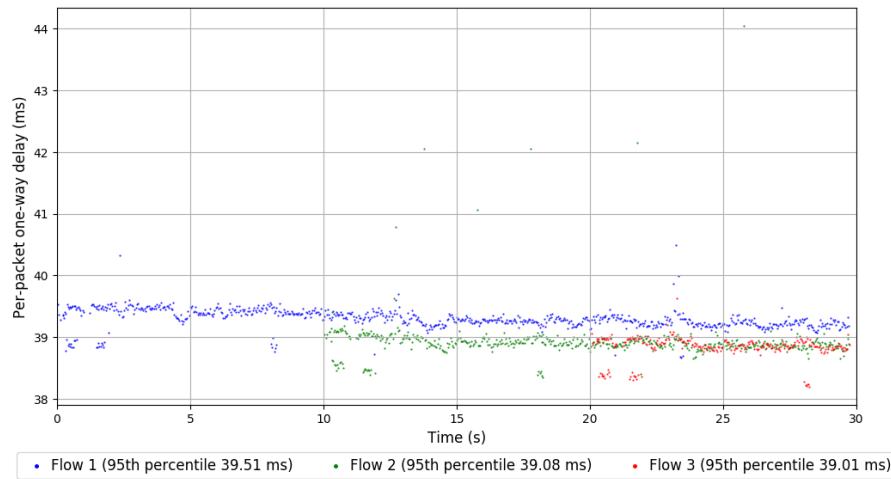
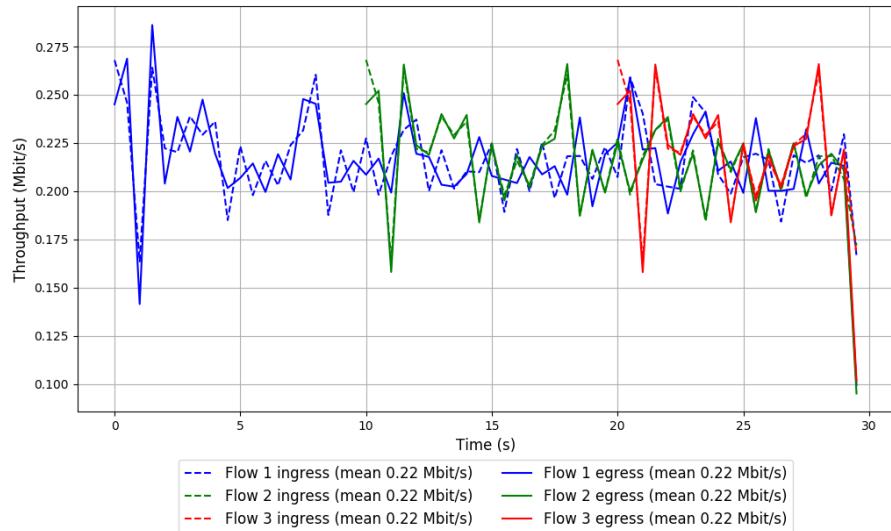


Run 4: Statistics of SCReAM

```
Start at: 2018-04-24 18:14:12
End at: 2018-04-24 18:14:42
Local clock offset: -3.915 ms
Remote clock offset: -1.384 ms

# Below is generated by plot.py at 2018-04-25 00:46:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 39.481 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 39.506 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 39.083 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 39.010 ms
Loss rate: 1.86%
```

Run 4: Report of SCReAM — Data Link

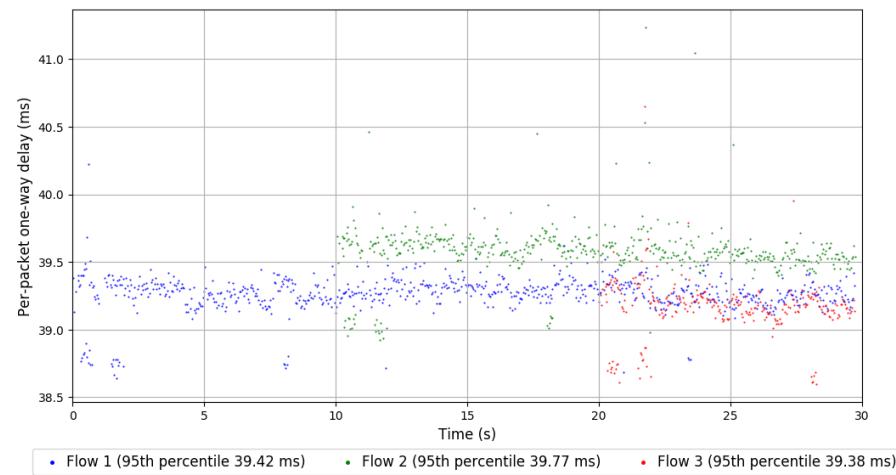
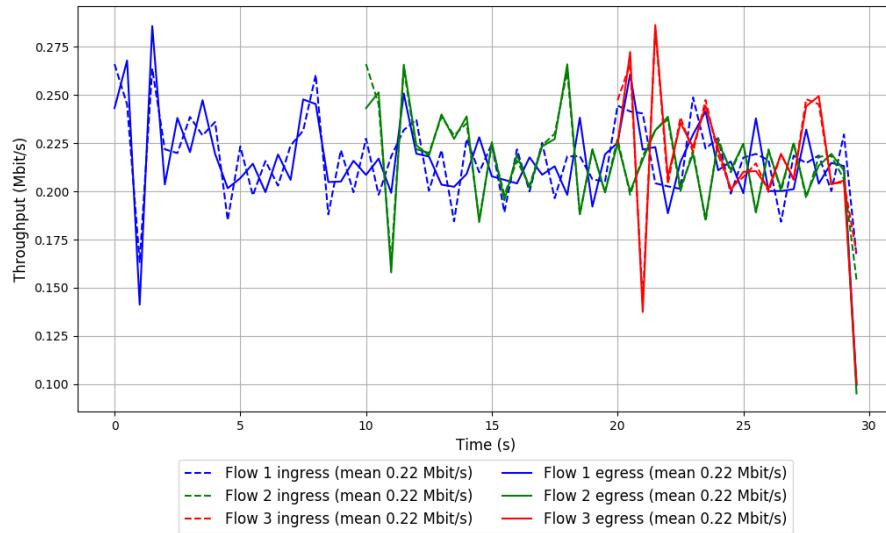


Run 5: Statistics of SCReAM

```
Start at: 2018-04-24 18:37:06
End at: 2018-04-24 18:37:36
Local clock offset: -0.604 ms
Remote clock offset: -1.501 ms

# Below is generated by plot.py at 2018-04-25 00:46:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 39.686 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 39.424 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 39.765 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 39.382 ms
Loss rate: 1.91%
```

Run 5: Report of SCReAM — Data Link

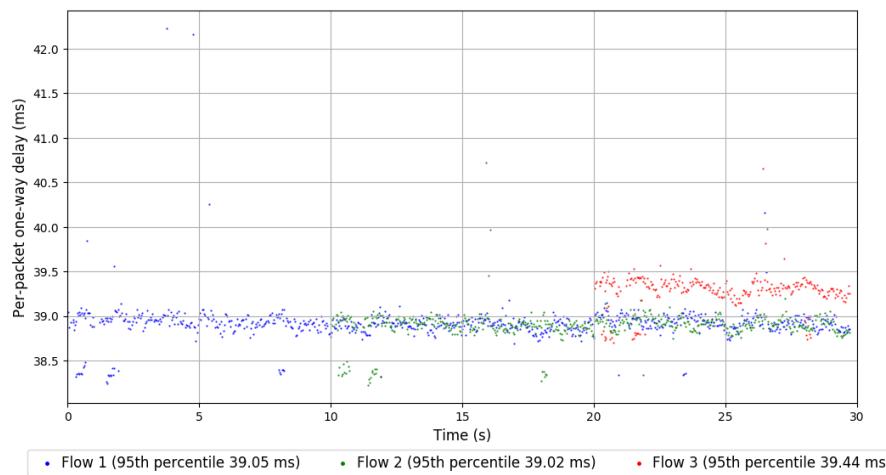
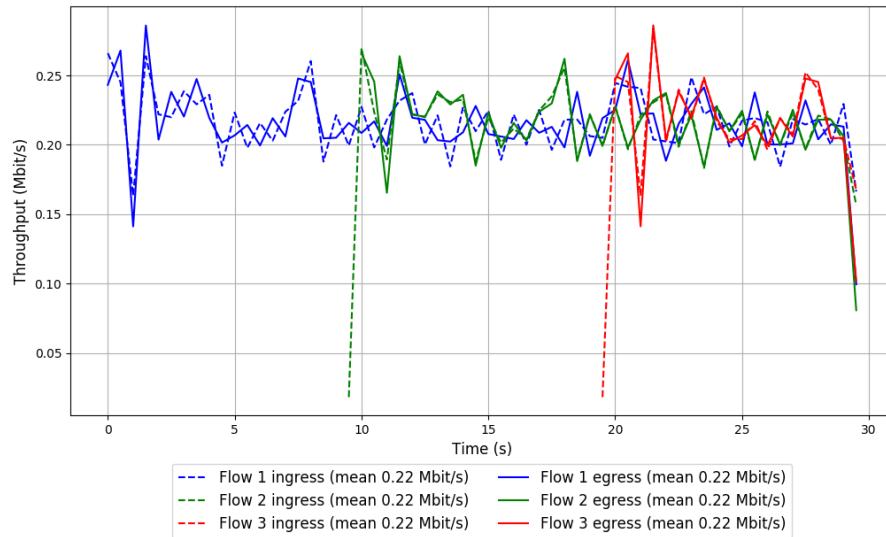


Run 6: Statistics of SCReAM

```
Start at: 2018-04-24 18:59:59
End at: 2018-04-24 19:00:29
Local clock offset: 2.354 ms
Remote clock offset: -1.569 ms

# Below is generated by plot.py at 2018-04-25 00:46:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 39.377 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 39.049 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 39.025 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 39.440 ms
Loss rate: 1.86%
```

Run 6: Report of SCReAM — Data Link

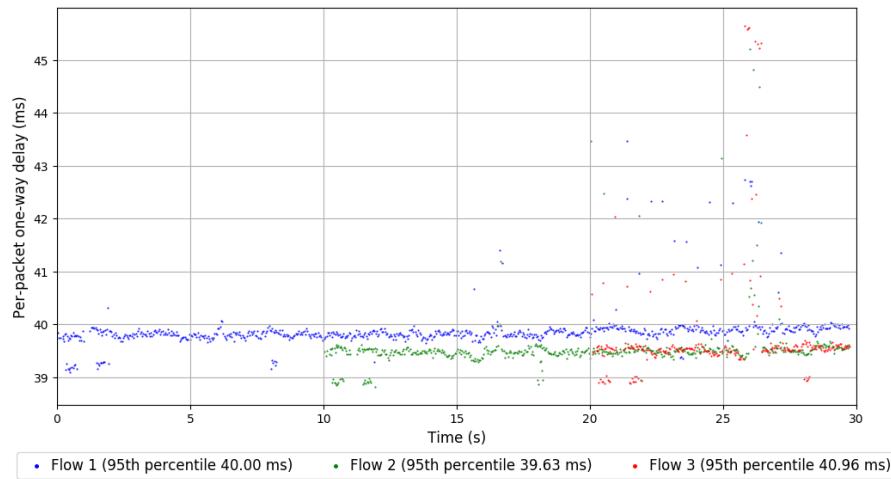
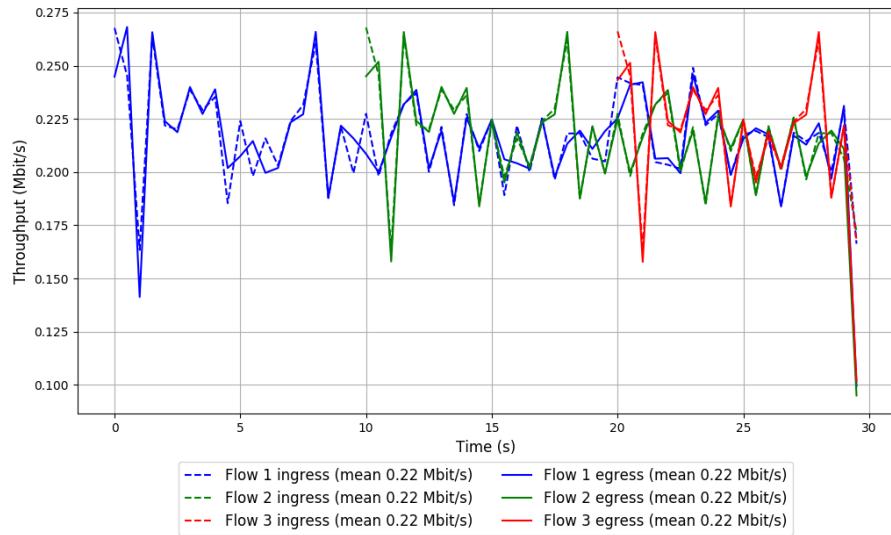


Run 7: Statistics of SCReAM

```
Start at: 2018-04-24 19:22:52
End at: 2018-04-24 19:23:22
Local clock offset: 0.716 ms
Remote clock offset: -1.133 ms

# Below is generated by plot.py at 2018-04-25 00:46:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 40.015 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 40.002 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 39.627 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 40.961 ms
Loss rate: 1.87%
```

Run 7: Report of SCReAM — Data Link

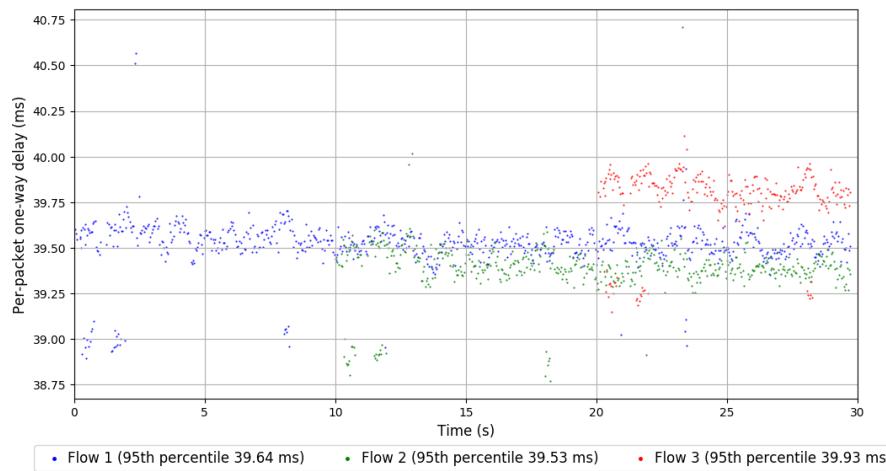
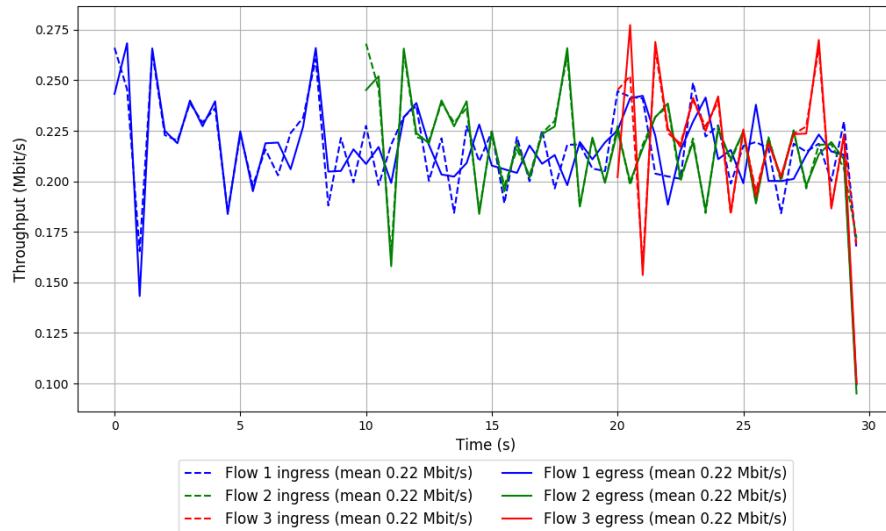


Run 8: Statistics of SCReAM

```
Start at: 2018-04-24 19:45:41
End at: 2018-04-24 19:46:11
Local clock offset: -2.704 ms
Remote clock offset: -0.827 ms

# Below is generated by plot.py at 2018-04-25 00:46:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 39.864 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 39.644 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 39.531 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 39.932 ms
Loss rate: 1.91%
```

Run 8: Report of SCReAM — Data Link

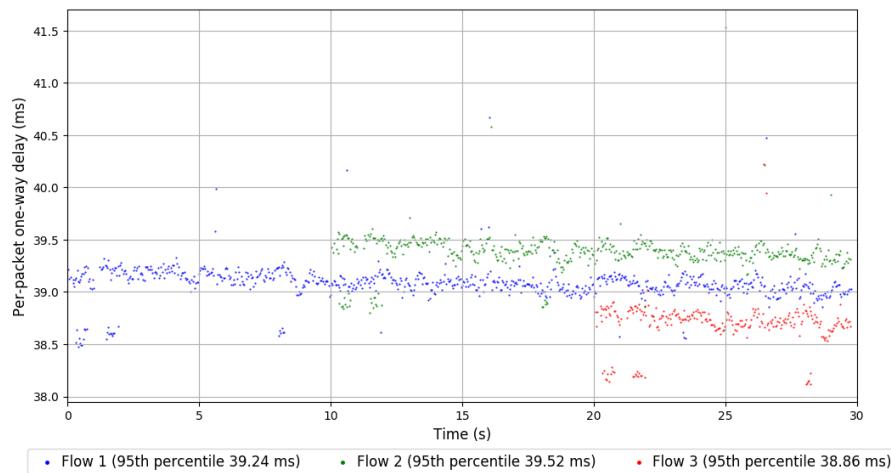
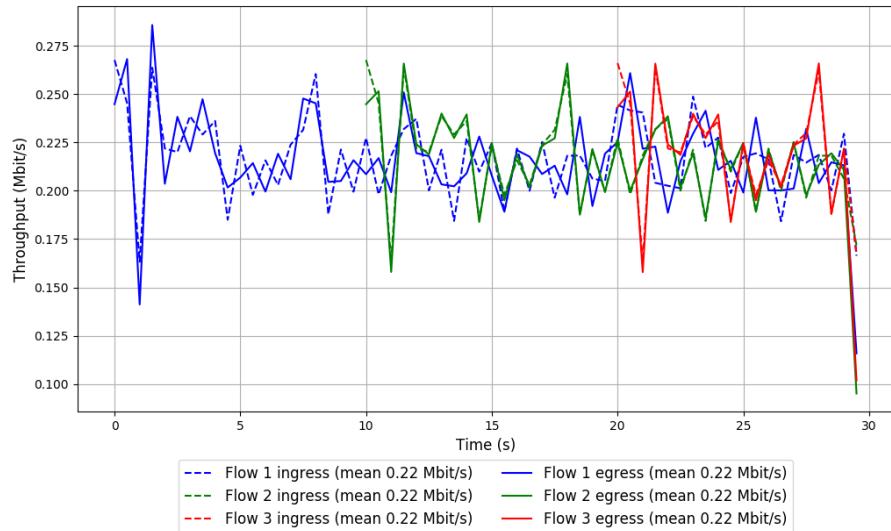


Run 9: Statistics of SCReAM

```
Start at: 2018-04-24 20:08:33
End at: 2018-04-24 20:09:03
Local clock offset: 3.699 ms
Remote clock offset: -0.684 ms

# Below is generated by plot.py at 2018-04-25 00:46:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 39.500 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 39.236 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 39.525 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 38.862 ms
Loss rate: 1.87%
```

Run 9: Report of SCReAM — Data Link

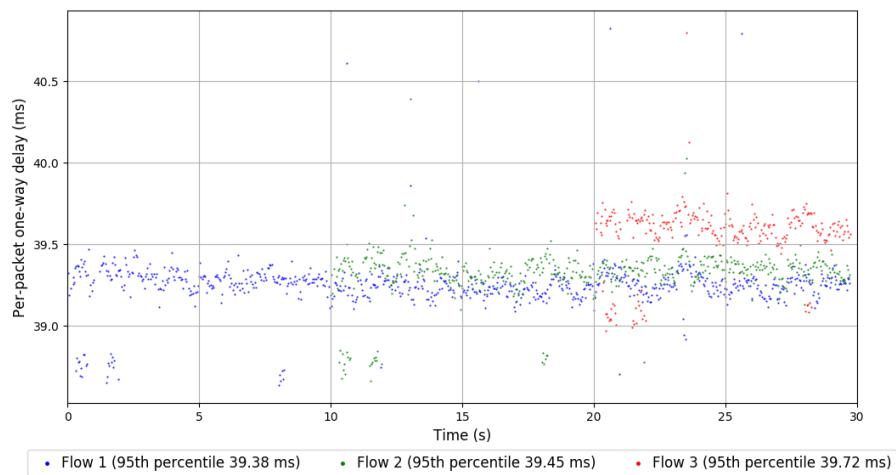
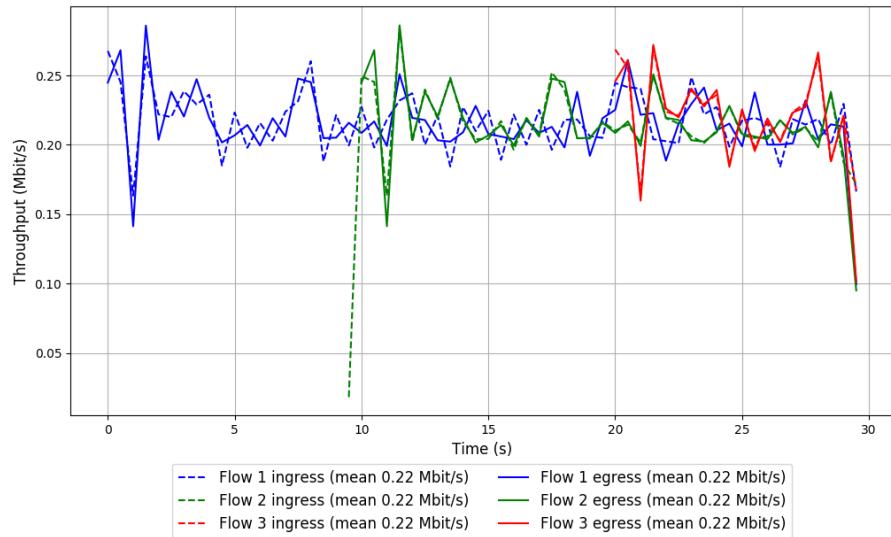


Run 10: Statistics of SCReAM

```
Start at: 2018-04-24 20:31:42
End at: 2018-04-24 20:32:12
Local clock offset: 4.459 ms
Remote clock offset: -0.568 ms

# Below is generated by plot.py at 2018-04-25 00:46:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 39.653 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 39.376 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 39.453 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 39.723 ms
Loss rate: 1.85%
```

Run 10: Report of SCReAM — Data Link

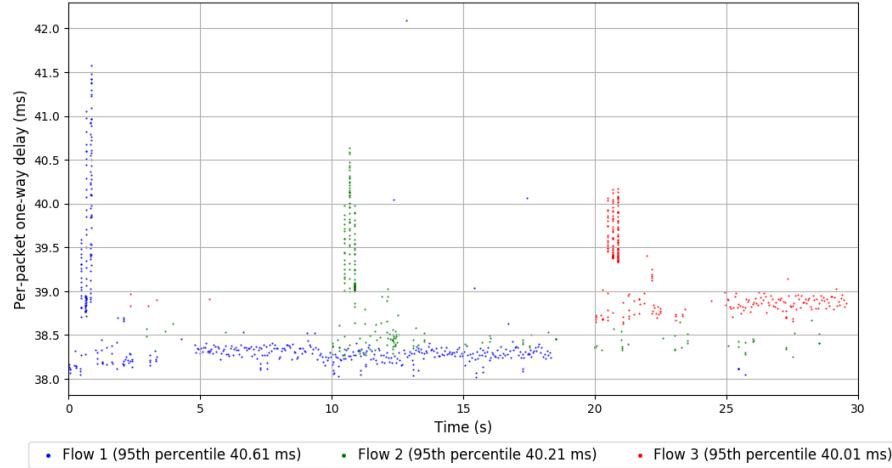
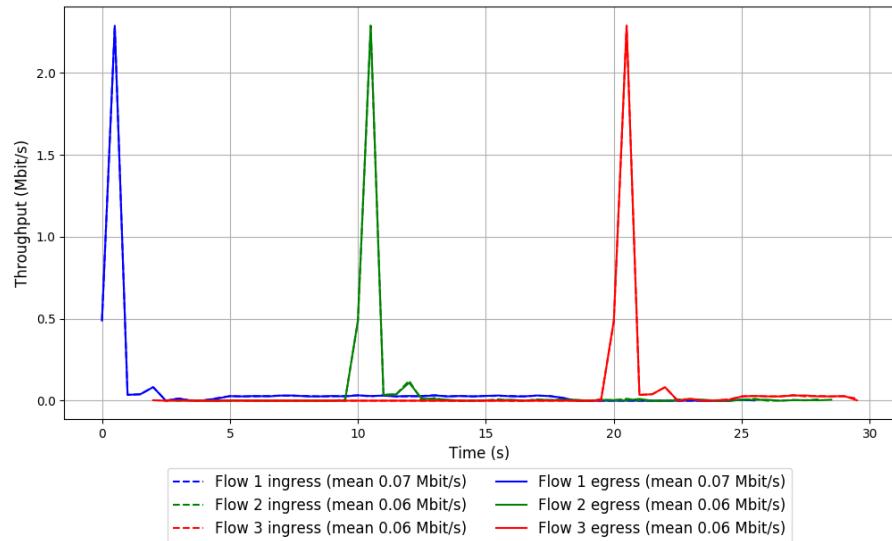


```
Run 1: Statistics of WebRTC media

Start at: 2018-04-24 17:04:05
End at: 2018-04-24 17:04:35
Local clock offset: -4.057 ms
Remote clock offset: -7.715 ms

# Below is generated by plot.py at 2018-04-25 00:46:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 40.223 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 40.612 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 40.210 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 40.011 ms
Loss rate: 0.33%
```

Run 1: Report of WebRTC media — Data Link

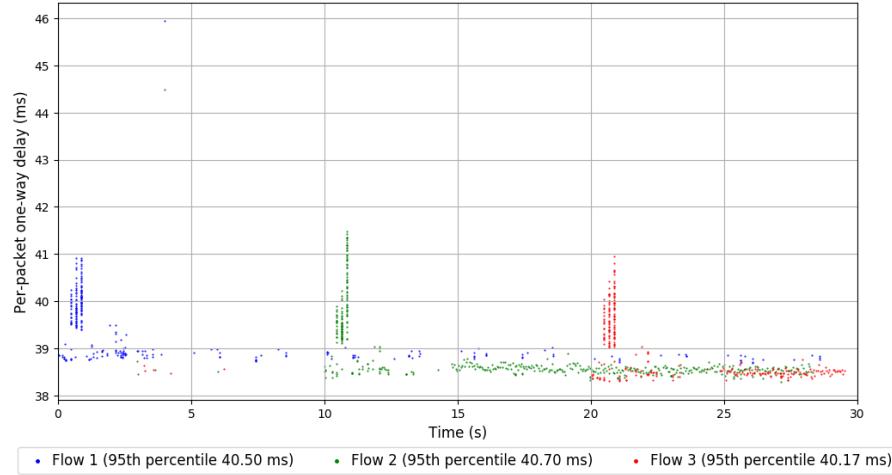
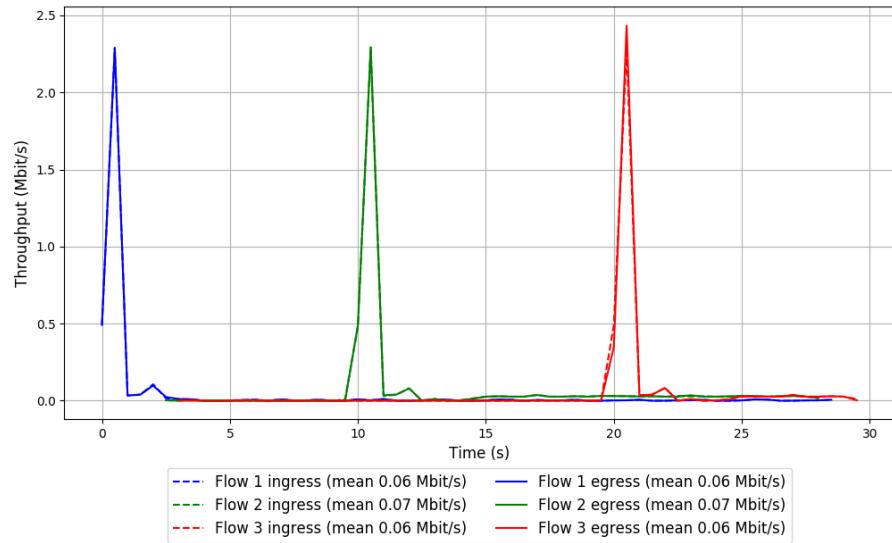


Run 2: Statistics of WebRTC media

```
Start at: 2018-04-24 17:26:58
End at: 2018-04-24 17:27:28
Local clock offset: -0.999 ms
Remote clock offset: -6.772 ms

# Below is generated by plot.py at 2018-04-25 00:46:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 40.438 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 40.500 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 40.705 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 40.173 ms
Loss rate: 0.32%
```

Run 2: Report of WebRTC media — Data Link

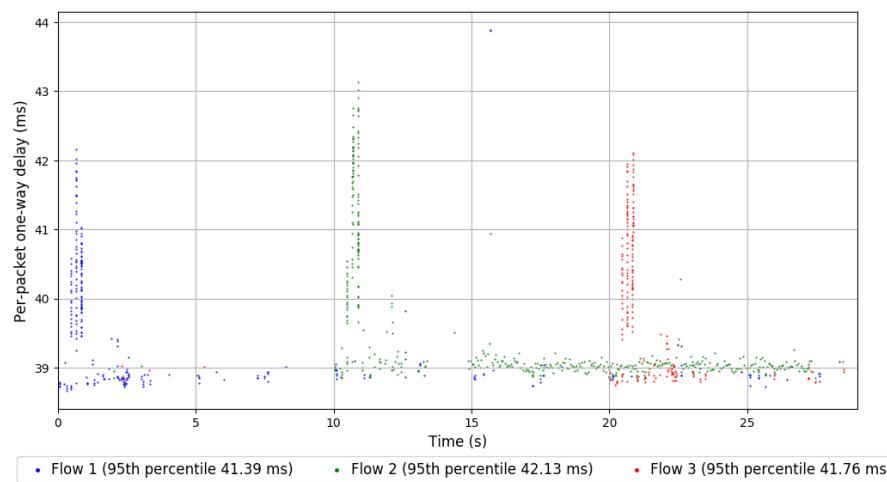
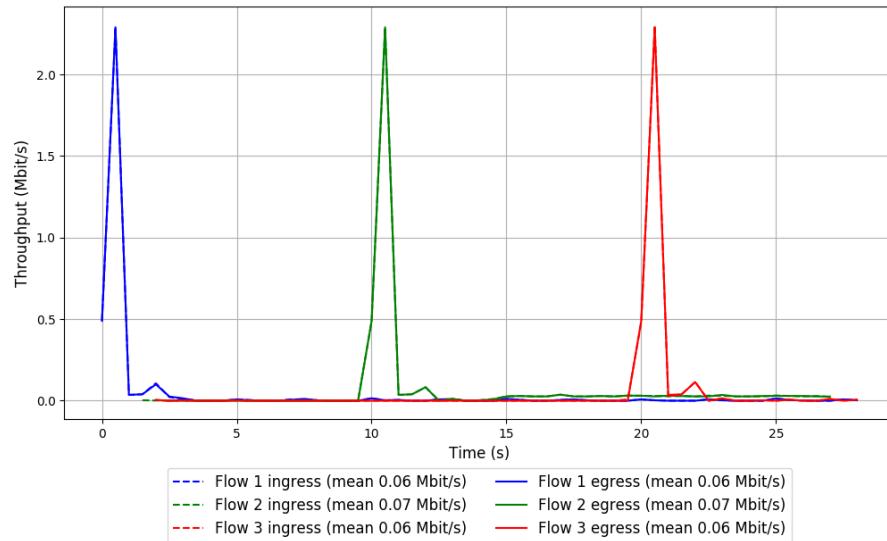


Run 3: Statistics of WebRTC media

```
Start at: 2018-04-24 17:50:02
End at: 2018-04-24 17:50:32
Local clock offset: -4.454 ms
Remote clock offset: -2.013 ms

# Below is generated by plot.py at 2018-04-25 00:46:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 41.855 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 41.393 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 42.130 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 41.759 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

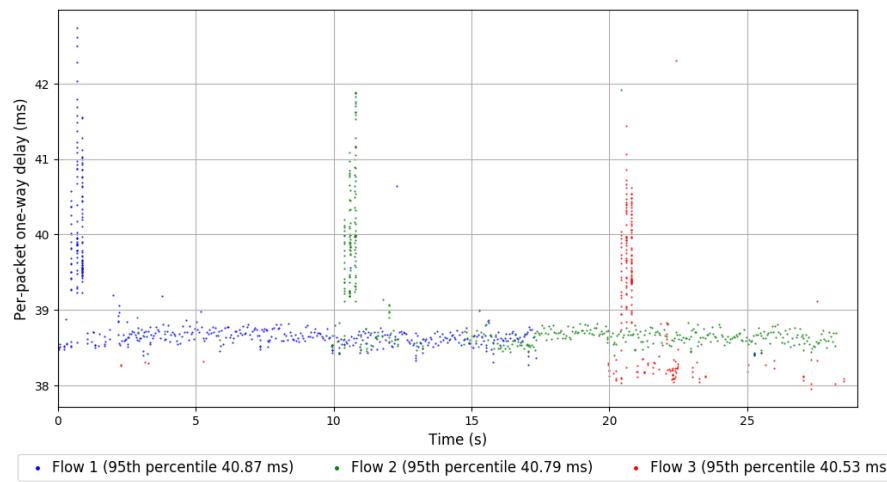
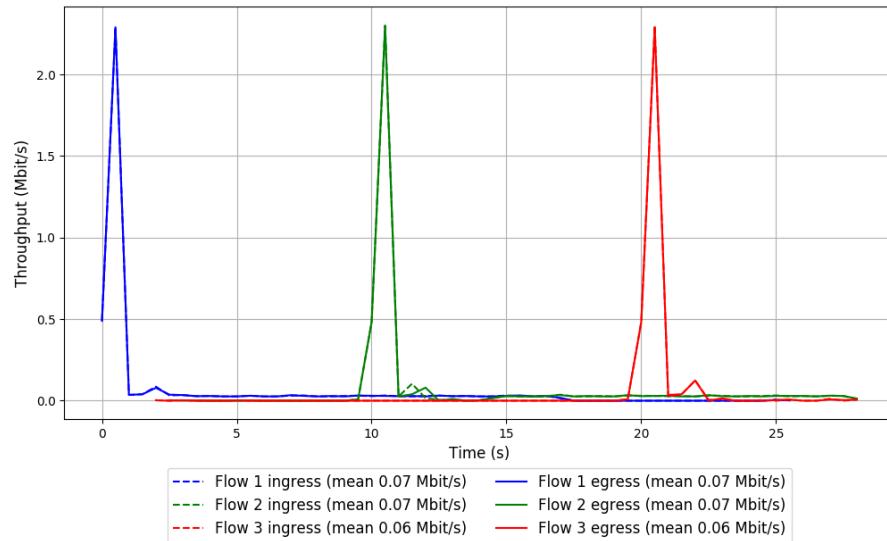


Run 4: Statistics of WebRTC media

```
Start at: 2018-04-24 18:12:56
End at: 2018-04-24 18:13:26
Local clock offset: -4.339 ms
Remote clock offset: -1.417 ms

# Below is generated by plot.py at 2018-04-25 00:46:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 40.765 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 40.867 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 40.793 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 40.535 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link

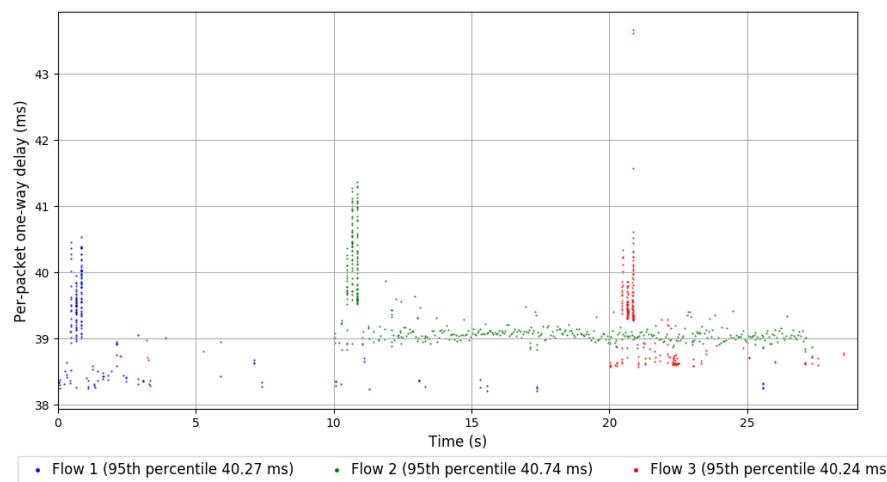
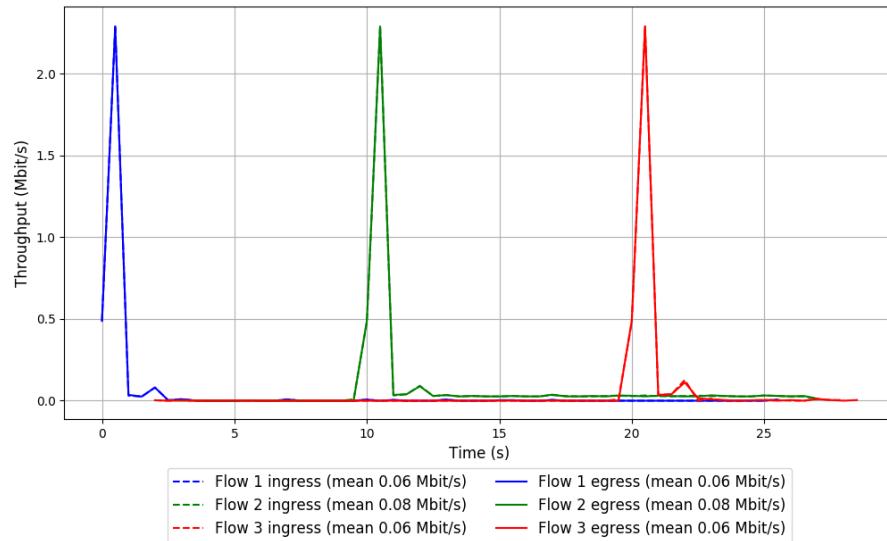


Run 5: Statistics of WebRTC media

```
Start at: 2018-04-24 18:35:50
End at: 2018-04-24 18:36:20
Local clock offset: -0.644 ms
Remote clock offset: -1.49 ms

# Below is generated by plot.py at 2018-04-25 00:46:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 40.455 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 40.270 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 40.741 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 40.237 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

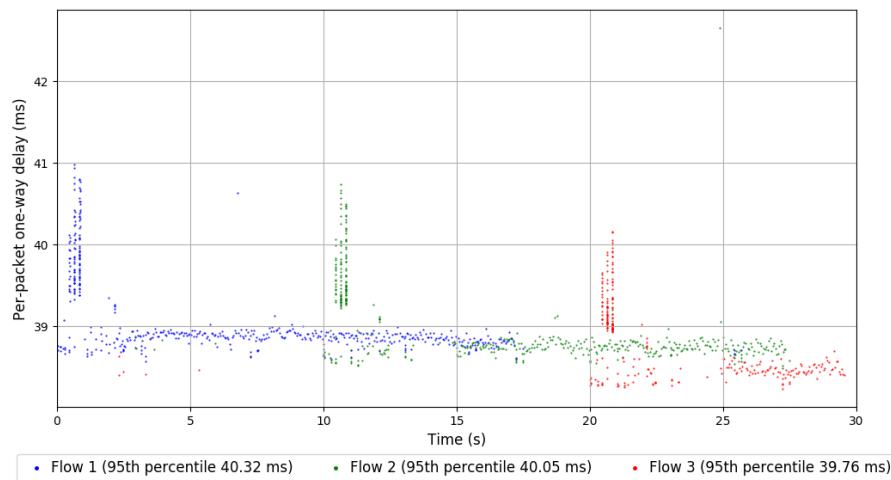
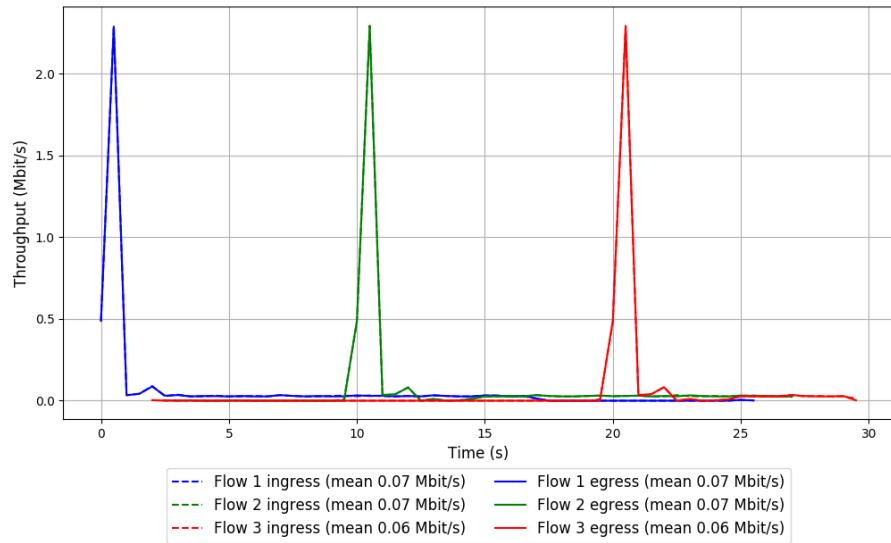


Run 6: Statistics of WebRTC media

```
Start at: 2018-04-24 18:58:43
End at: 2018-04-24 18:59:13
Local clock offset: 2.305 ms
Remote clock offset: -1.554 ms

# Below is generated by plot.py at 2018-04-25 00:46:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 40.070 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 40.317 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 40.053 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 39.763 ms
Loss rate: 0.32%
```

Run 6: Report of WebRTC media — Data Link

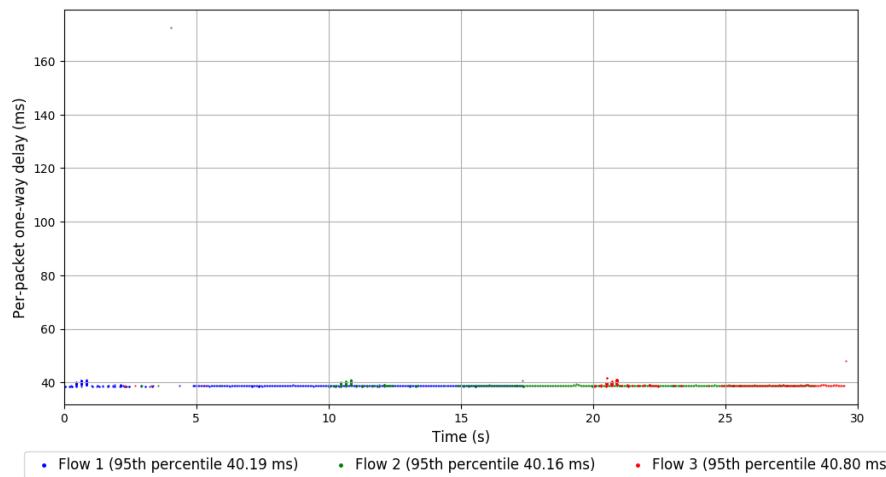
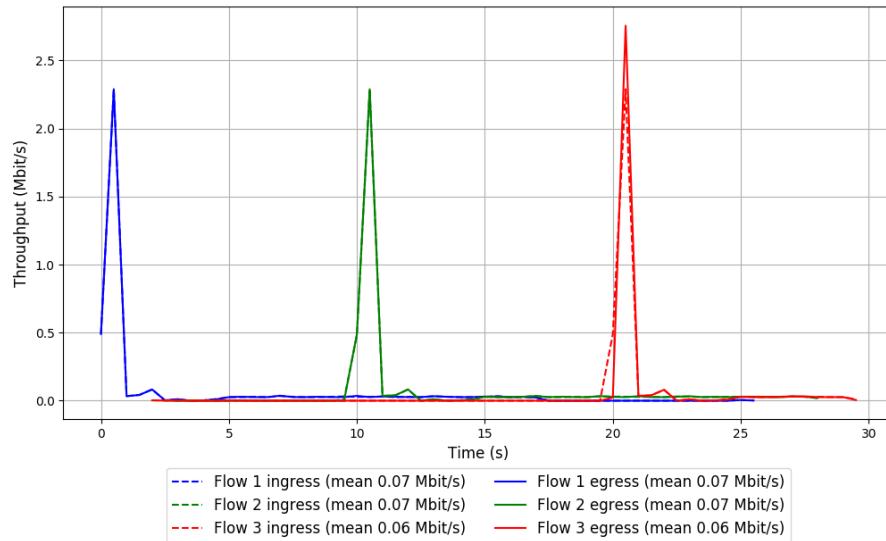


Run 7: Statistics of WebRTC media

```
Start at: 2018-04-24 19:21:35
End at: 2018-04-24 19:22:05
Local clock offset: 1.025 ms
Remote clock offset: -1.115 ms

# Below is generated by plot.py at 2018-04-25 00:46:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 40.404 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 40.192 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 40.161 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 40.801 ms
Loss rate: 0.24%
```

Run 7: Report of WebRTC media — Data Link

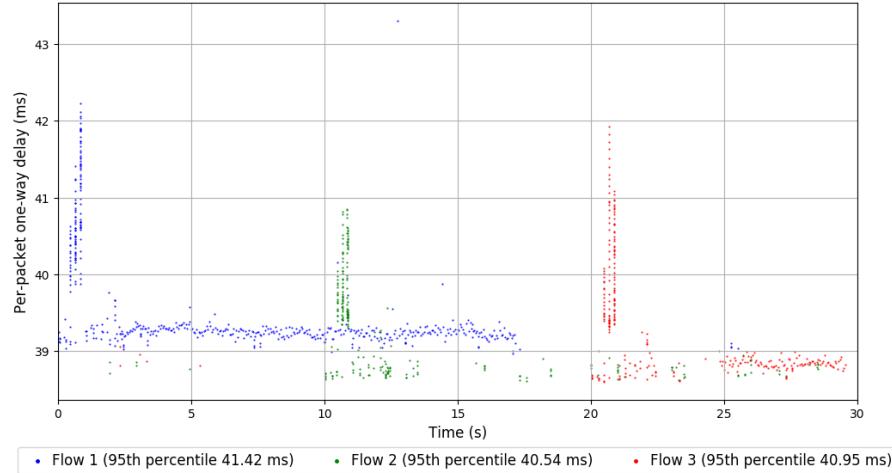
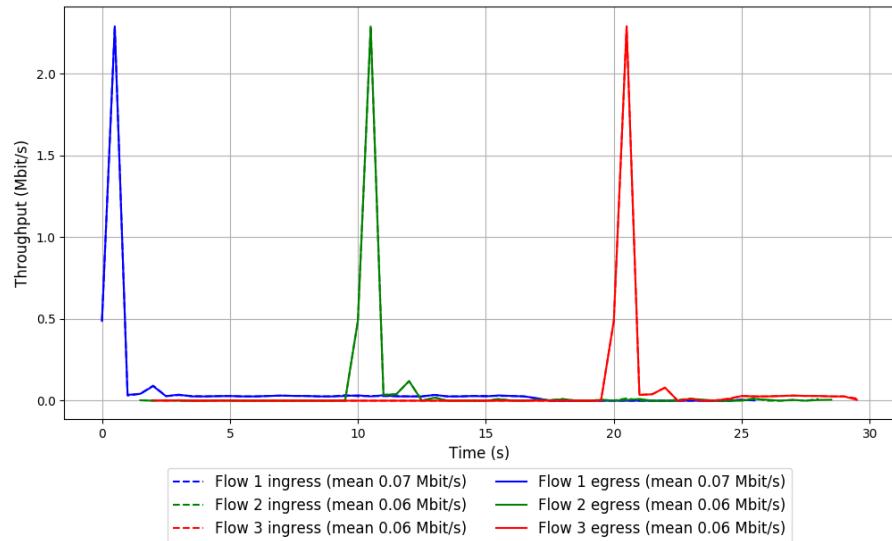


Run 8: Statistics of WebRTC media

```
Start at: 2018-04-24 19:44:25
End at: 2018-04-24 19:44:55
Local clock offset: -2.78 ms
Remote clock offset: -0.843 ms

# Below is generated by plot.py at 2018-04-25 00:46:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 41.038 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 41.425 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 40.538 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 40.948 ms
Loss rate: 0.32%
```

Run 8: Report of WebRTC media — Data Link

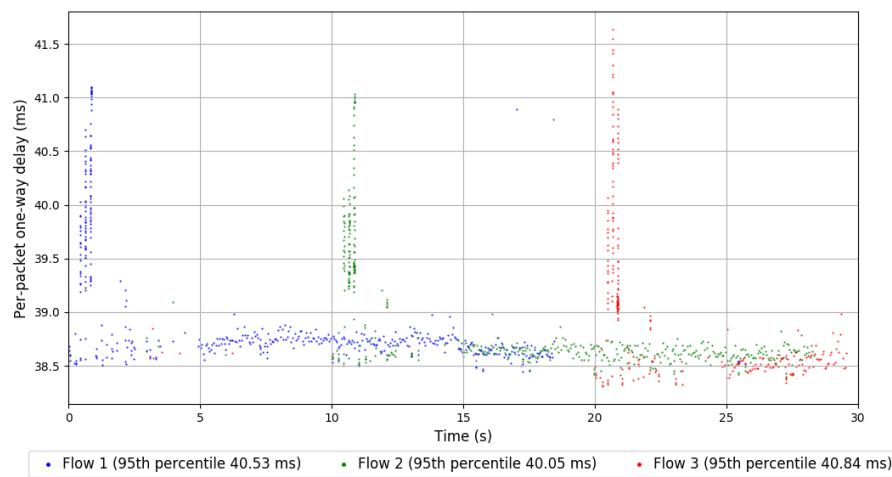
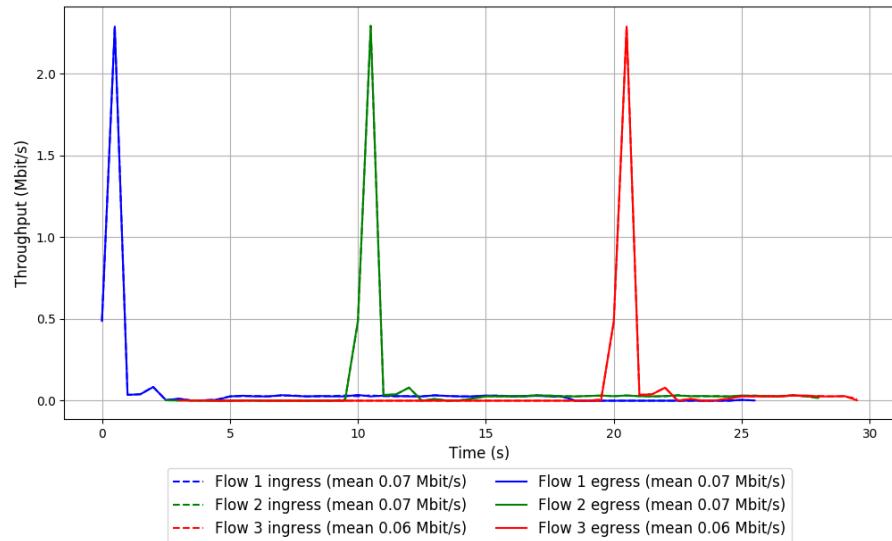


Run 9: Statistics of WebRTC media

```
Start at: 2018-04-24 20:07:17
End at: 2018-04-24 20:07:47
Local clock offset: 3.44 ms
Remote clock offset: -0.677 ms

# Below is generated by plot.py at 2018-04-25 00:46:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 40.527 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 40.527 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 40.050 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 40.845 ms
Loss rate: 0.32%
```

Run 9: Report of WebRTC media — Data Link

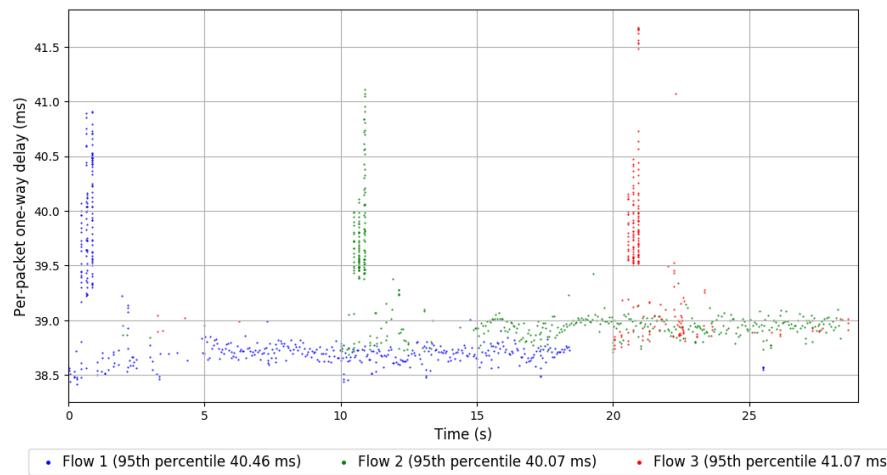
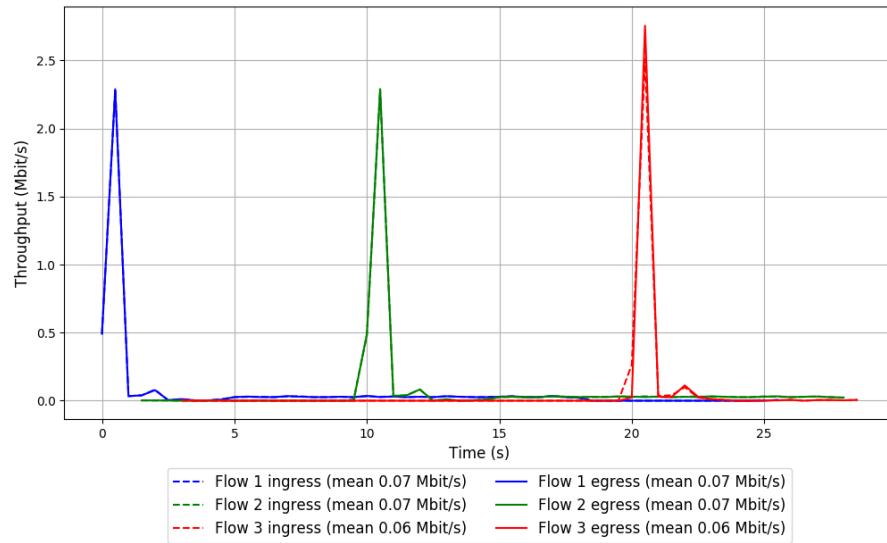


```
Run 10: Statistics of WebRTC media
```

```
Start at: 2018-04-24 20:30:25
End at: 2018-04-24 20:30:55
Local clock offset: 4.845 ms
Remote clock offset: -0.545 ms

# Below is generated by plot.py at 2018-04-25 00:46:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 40.429 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 40.457 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 40.074 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 41.068 ms
Loss rate: 0.00%
```

Run 10: Report of WebRTC media — Data Link

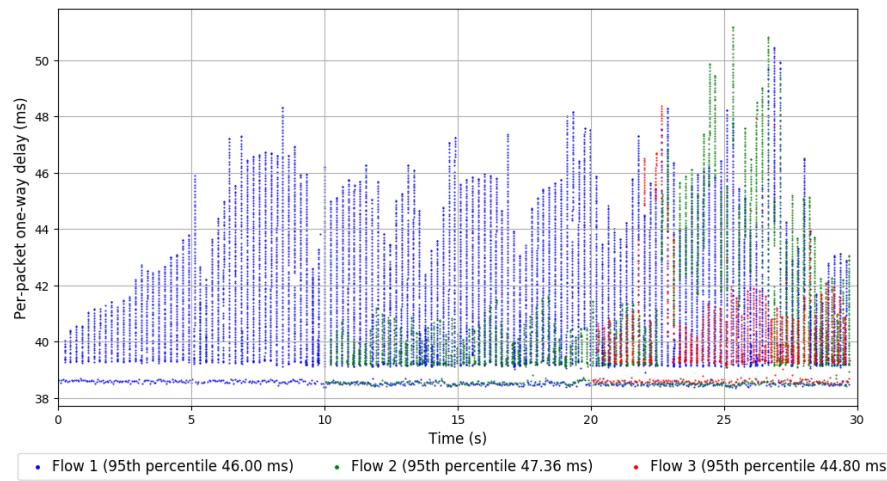
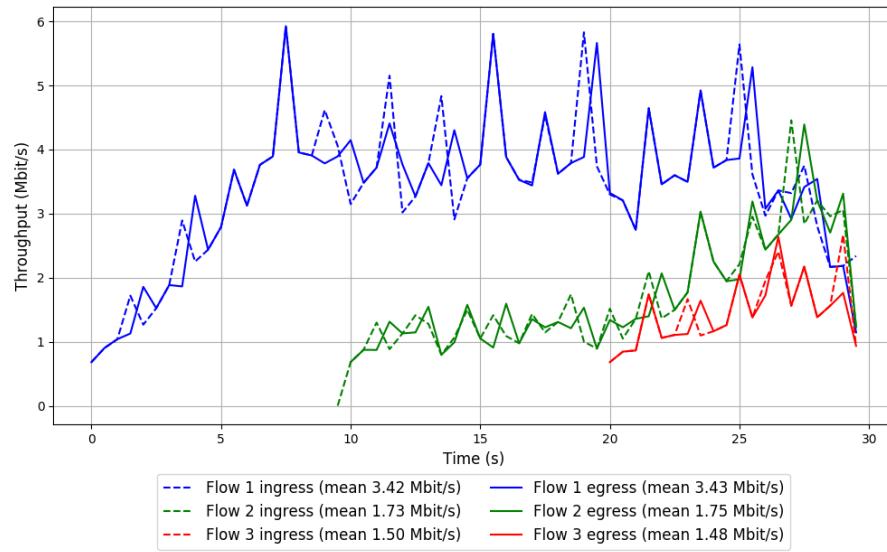


Run 1: Statistics of Sprout

```
Start at: 2018-04-24 17:16:08
End at: 2018-04-24 17:16:38
Local clock offset: -1.396 ms
Remote clock offset: -5.878 ms

# Below is generated by plot.py at 2018-04-25 00:46:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.07 Mbit/s
95th percentile per-packet one-way delay: 46.169 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 3.43 Mbit/s
95th percentile per-packet one-way delay: 45.996 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 1.75 Mbit/s
95th percentile per-packet one-way delay: 47.362 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 1.48 Mbit/s
95th percentile per-packet one-way delay: 44.797 ms
Loss rate: 3.05%
```

Run 1: Report of Sprout — Data Link

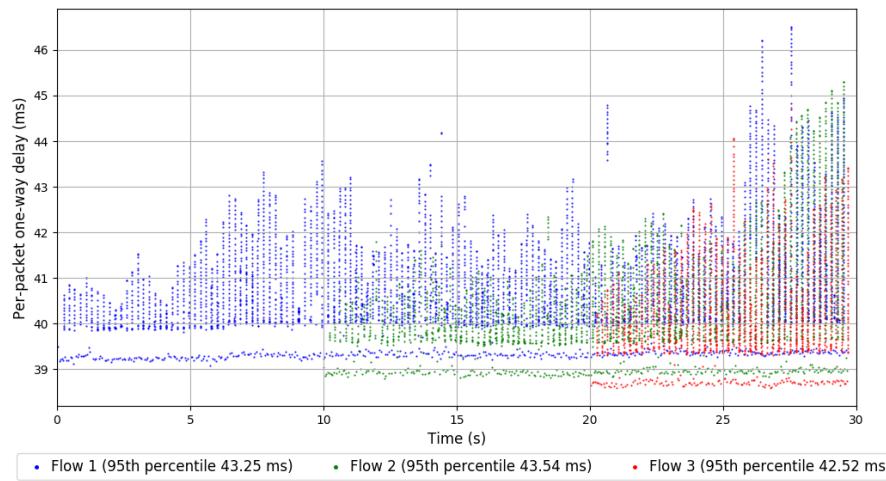
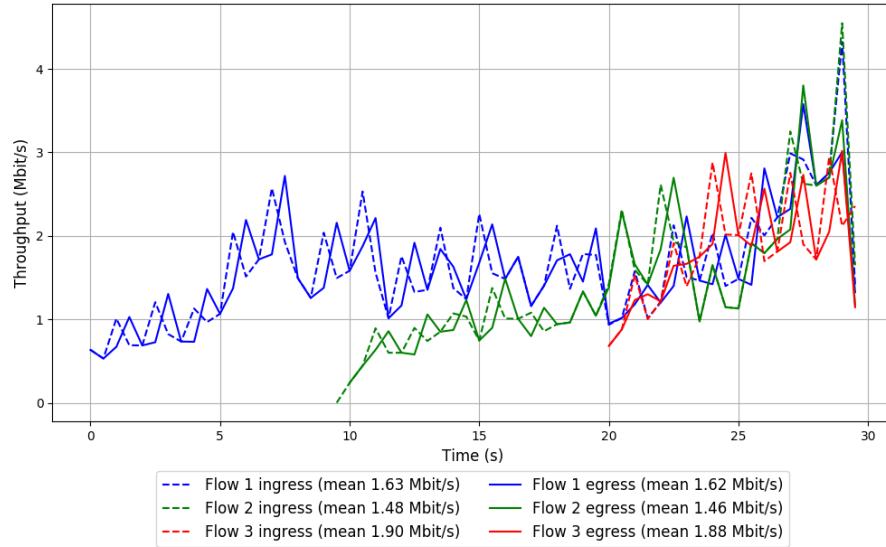


Run 2: Statistics of Sprout

```
Start at: 2018-04-24 17:39:01
End at: 2018-04-24 17:39:31
Local clock offset: -2.371 ms
Remote clock offset: -3.013 ms

# Below is generated by plot.py at 2018-04-25 00:46:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.19 Mbit/s
95th percentile per-packet one-way delay: 43.185 ms
Loss rate: 2.20%
-- Flow 1:
Average throughput: 1.62 Mbit/s
95th percentile per-packet one-way delay: 43.252 ms
Loss rate: 1.45%
-- Flow 2:
Average throughput: 1.46 Mbit/s
95th percentile per-packet one-way delay: 43.539 ms
Loss rate: 2.79%
-- Flow 3:
Average throughput: 1.88 Mbit/s
95th percentile per-packet one-way delay: 42.522 ms
Loss rate: 3.25%
```

Run 2: Report of Sprout — Data Link

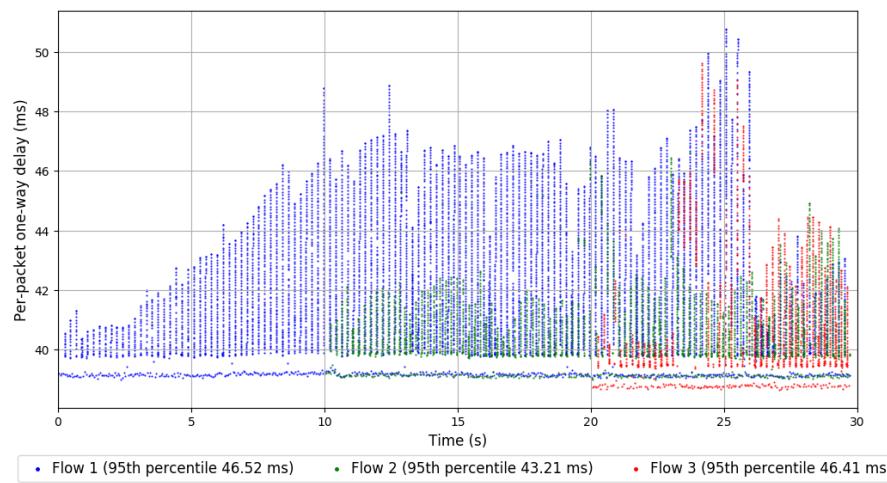
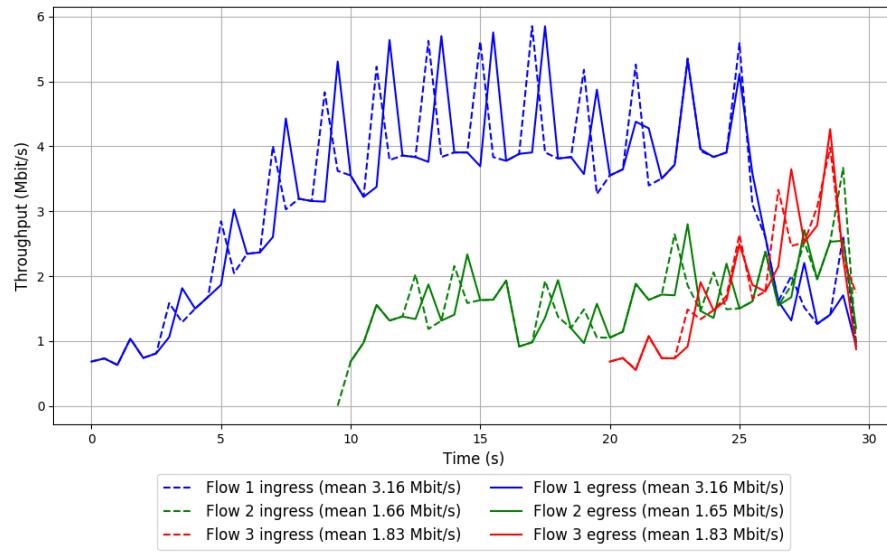


Run 3: Statistics of Sprout

```
Start at: 2018-04-24 18:02:07
End at: 2018-04-24 18:02:37
Local clock offset: -5.916 ms
Remote clock offset: -2.165 ms

# Below is generated by plot.py at 2018-04-25 00:46:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.85 Mbit/s
95th percentile per-packet one-way delay: 46.260 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 3.16 Mbit/s
95th percentile per-packet one-way delay: 46.516 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 1.65 Mbit/s
95th percentile per-packet one-way delay: 43.206 ms
Loss rate: 1.33%
-- Flow 3:
Average throughput: 1.83 Mbit/s
95th percentile per-packet one-way delay: 46.409 ms
Loss rate: 2.42%
```

Run 3: Report of Sprout — Data Link

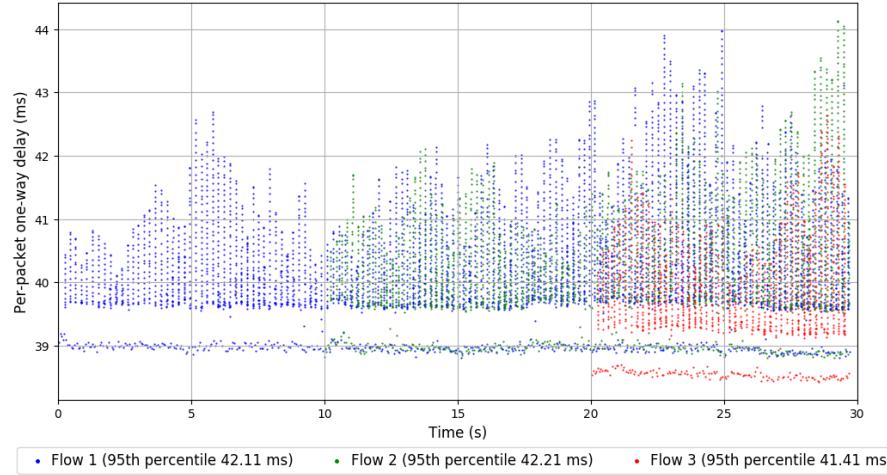
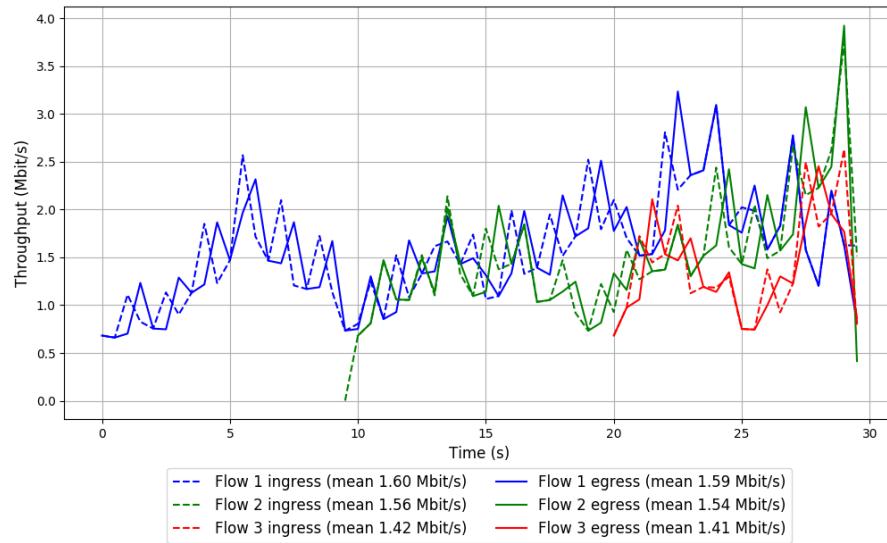


Run 4: Statistics of Sprout

```
Start at: 2018-04-24 18:25:00
End at: 2018-04-24 18:25:30
Local clock offset: -1.47 ms
Remote clock offset: -1.382 ms

# Below is generated by plot.py at 2018-04-25 00:46:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.07 Mbit/s
95th percentile per-packet one-way delay: 42.066 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 1.59 Mbit/s
95th percentile per-packet one-way delay: 42.108 ms
Loss rate: 0.85%
-- Flow 2:
Average throughput: 1.54 Mbit/s
95th percentile per-packet one-way delay: 42.213 ms
Loss rate: 1.78%
-- Flow 3:
Average throughput: 1.41 Mbit/s
95th percentile per-packet one-way delay: 41.413 ms
Loss rate: 2.79%
```

Run 4: Report of Sprout — Data Link

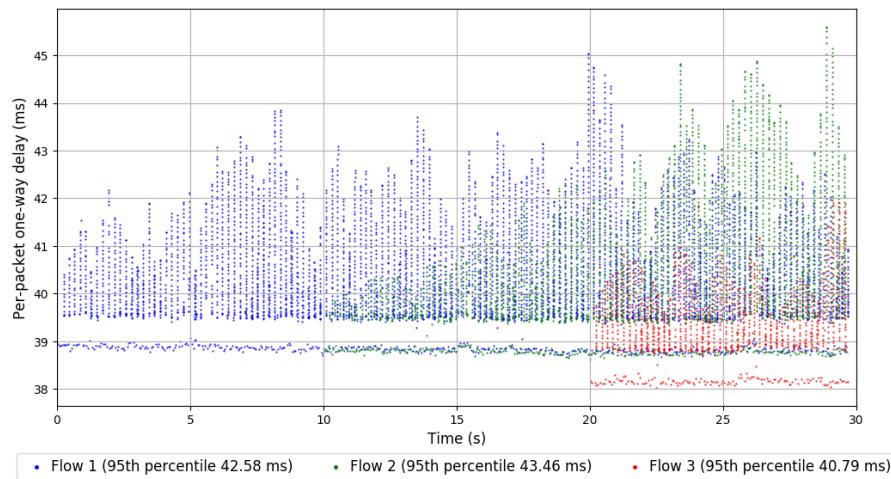
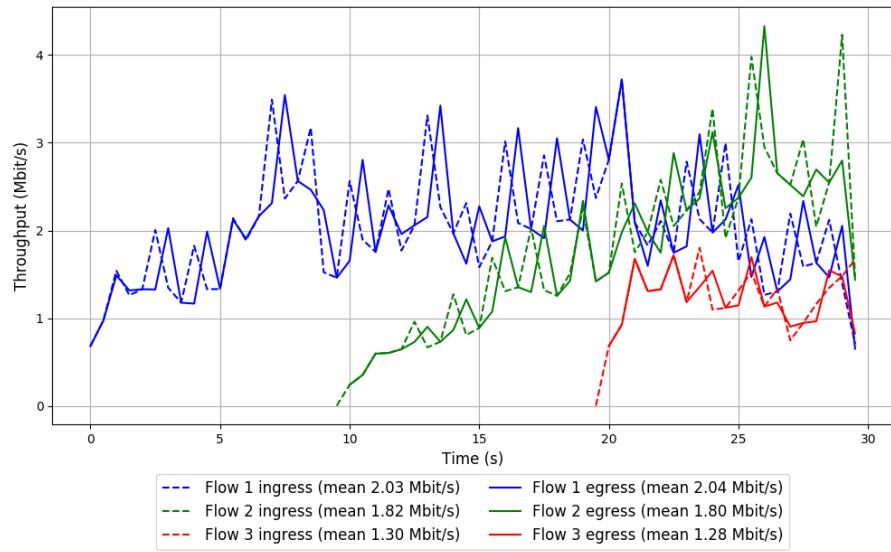


Run 5: Statistics of Sprout

```
Start at: 2018-04-24 18:47:53
End at: 2018-04-24 18:48:23
Local clock offset: 0.667 ms
Remote clock offset: -1.49 ms

# Below is generated by plot.py at 2018-04-25 00:46:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.65 Mbit/s
95th percentile per-packet one-way delay: 42.823 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 2.04 Mbit/s
95th percentile per-packet one-way delay: 42.584 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 1.80 Mbit/s
95th percentile per-packet one-way delay: 43.457 ms
Loss rate: 2.03%
-- Flow 3:
Average throughput: 1.28 Mbit/s
95th percentile per-packet one-way delay: 40.789 ms
Loss rate: 3.32%
```

Run 5: Report of Sprout — Data Link

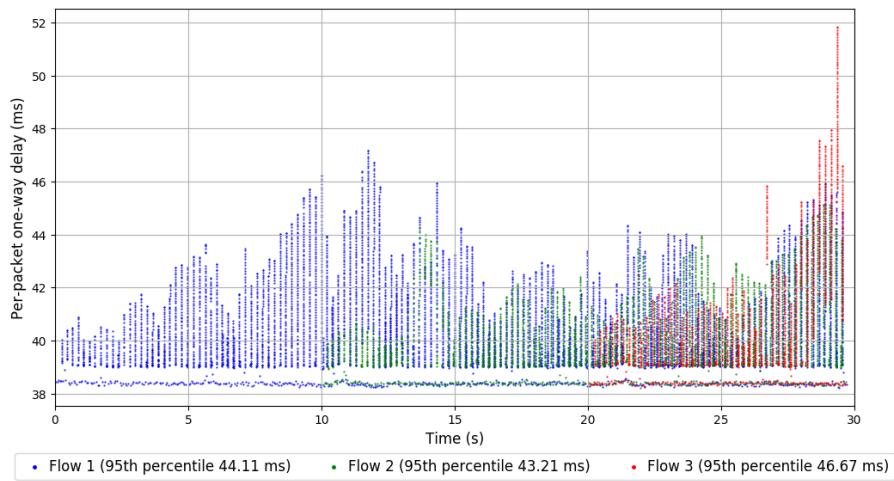
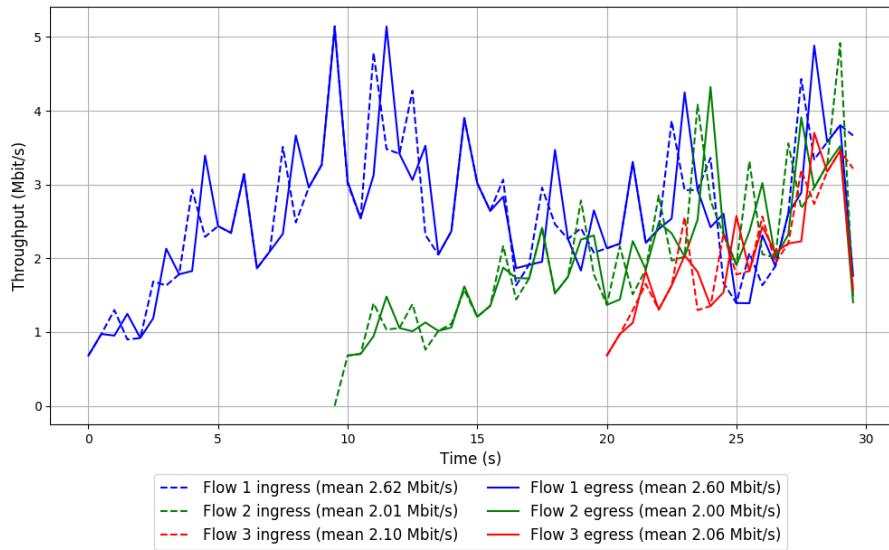


Run 6: Statistics of Sprout

```
Start at: 2018-04-24 19:10:47
End at: 2018-04-24 19:11:17
Local clock offset: 3.228 ms
Remote clock offset: -1.689 ms

# Below is generated by plot.py at 2018-04-25 00:46:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.59 Mbit/s
95th percentile per-packet one-way delay: 44.213 ms
Loss rate: 1.81%
-- Flow 1:
Average throughput: 2.60 Mbit/s
95th percentile per-packet one-way delay: 44.110 ms
Loss rate: 1.22%
-- Flow 2:
Average throughput: 2.00 Mbit/s
95th percentile per-packet one-way delay: 43.214 ms
Loss rate: 1.85%
-- Flow 3:
Average throughput: 2.06 Mbit/s
95th percentile per-packet one-way delay: 46.669 ms
Loss rate: 3.99%
```

Run 6: Report of Sprout — Data Link

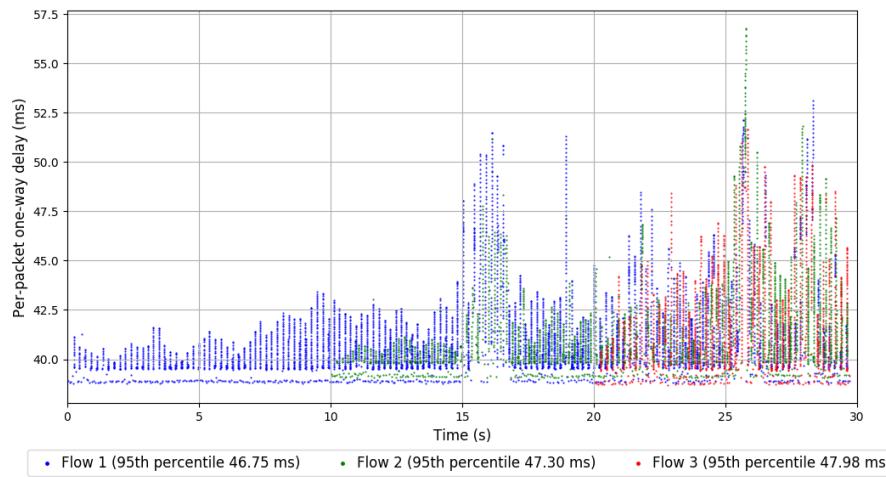
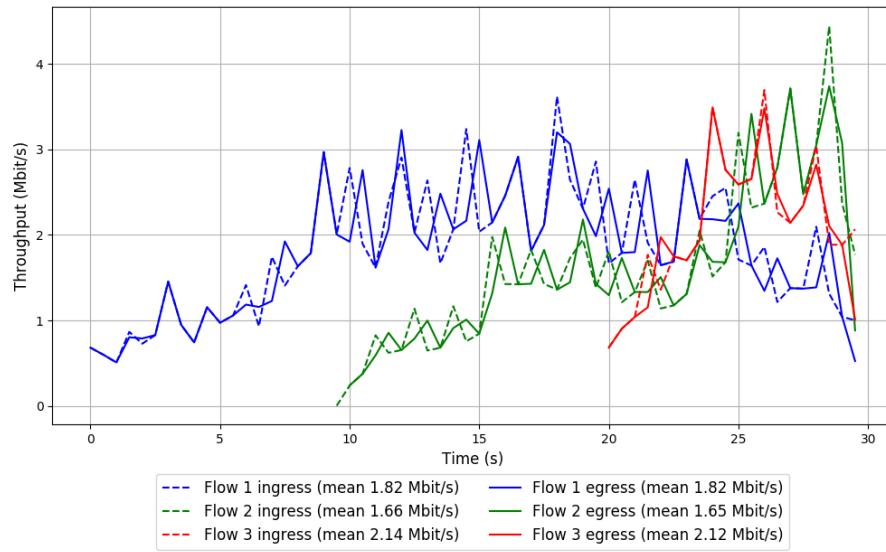


Run 7: Statistics of Sprout

```
Start at: 2018-04-24 19:33:37
End at: 2018-04-24 19:34:07
Local clock offset: -1.912 ms
Remote clock offset: -0.998 ms

# Below is generated by plot.py at 2018-04-25 00:46:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.60 Mbit/s
95th percentile per-packet one-way delay: 47.302 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 1.82 Mbit/s
95th percentile per-packet one-way delay: 46.750 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 1.65 Mbit/s
95th percentile per-packet one-way delay: 47.299 ms
Loss rate: 1.35%
-- Flow 3:
Average throughput: 2.12 Mbit/s
95th percentile per-packet one-way delay: 47.978 ms
Loss rate: 2.51%
```

Run 7: Report of Sprout — Data Link

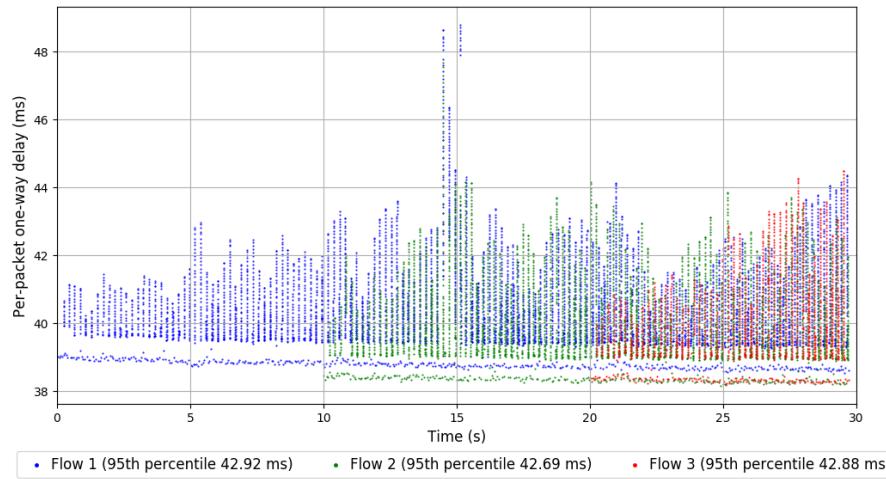
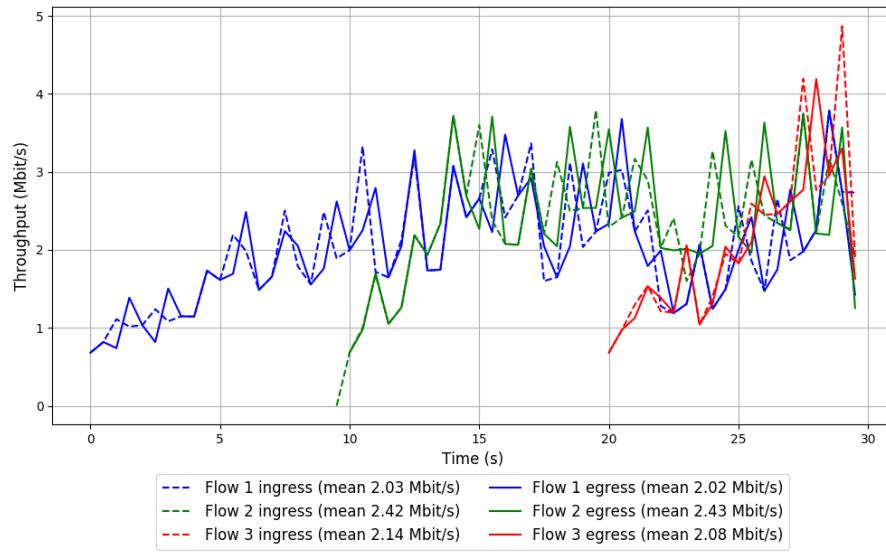


Run 8: Statistics of Sprout

```
Start at: 2018-04-24 19:56:28
End at: 2018-04-24 19:56:58
Local clock offset: -0.003 ms
Remote clock offset: -0.824 ms

# Below is generated by plot.py at 2018-04-25 00:46:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.31 Mbit/s
95th percentile per-packet one-way delay: 42.822 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 42.920 ms
Loss rate: 1.08%
-- Flow 2:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 42.687 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 2.08 Mbit/s
95th percentile per-packet one-way delay: 42.879 ms
Loss rate: 4.37%
```

Run 8: Report of Sprout — Data Link

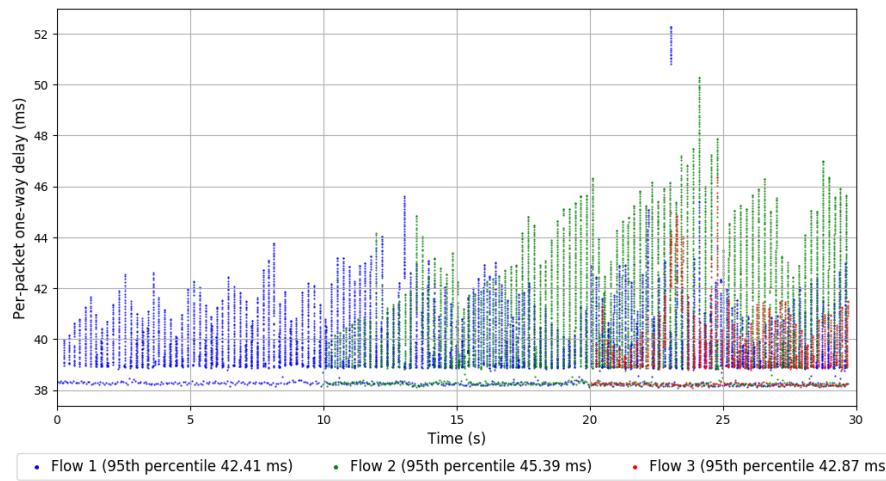
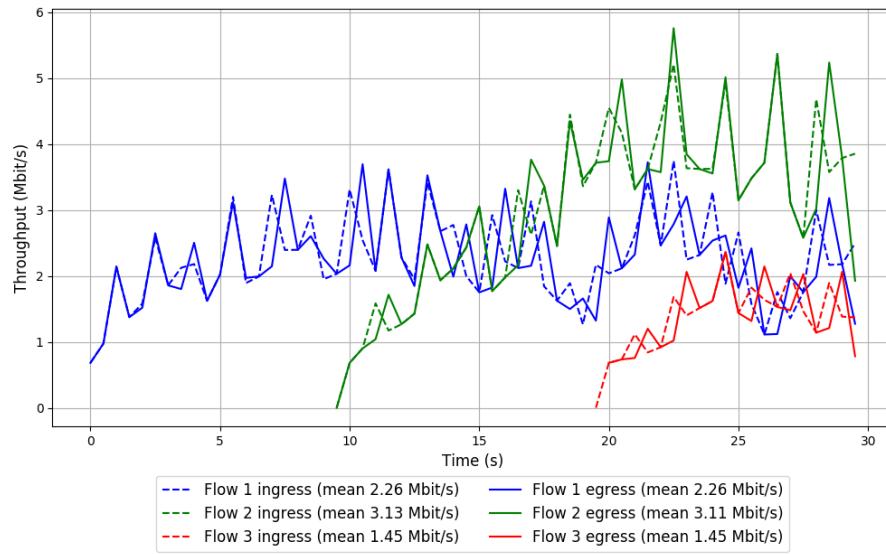


Run 9: Statistics of Sprout

```
Start at: 2018-04-24 20:19:37
End at: 2018-04-24 20:20:07
Local clock offset: 5.333 ms
Remote clock offset: -0.672 ms

# Below is generated by plot.py at 2018-04-25 00:46:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.80 Mbit/s
95th percentile per-packet one-way delay: 44.567 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 42.413 ms
Loss rate: 0.91%
-- Flow 2:
Average throughput: 3.11 Mbit/s
95th percentile per-packet one-way delay: 45.388 ms
Loss rate: 1.55%
-- Flow 3:
Average throughput: 1.45 Mbit/s
95th percentile per-packet one-way delay: 42.872 ms
Loss rate: 2.06%
```

Run 9: Report of Sprout — Data Link

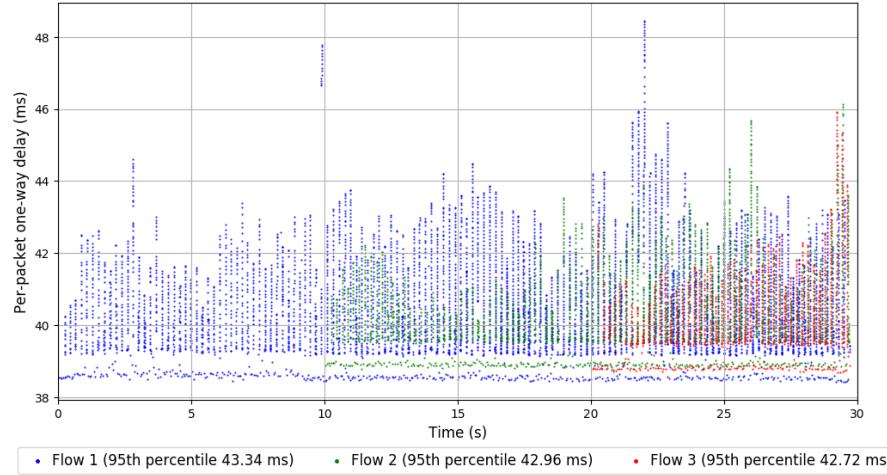
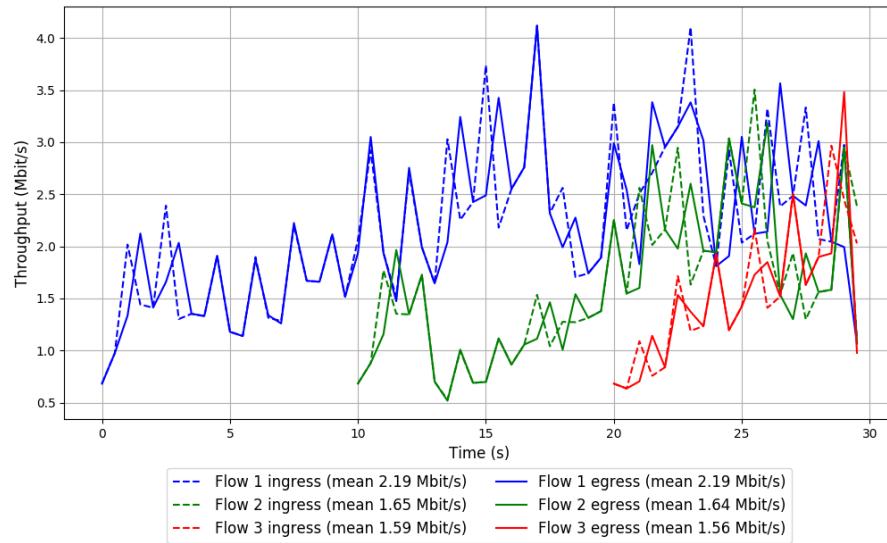


Run 10: Statistics of Sprout

```
Start at: 2018-04-24 20:42:28
End at: 2018-04-24 20:42:58
Local clock offset: 4.081 ms
Remote clock offset: -0.548 ms

# Below is generated by plot.py at 2018-04-25 00:46:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.78 Mbit/s
95th percentile per-packet one-way delay: 43.164 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 2.19 Mbit/s
95th percentile per-packet one-way delay: 43.338 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 1.64 Mbit/s
95th percentile per-packet one-way delay: 42.960 ms
Loss rate: 1.98%
-- Flow 3:
Average throughput: 1.56 Mbit/s
95th percentile per-packet one-way delay: 42.721 ms
Loss rate: 3.37%
```

Run 10: Report of Sprout — Data Link

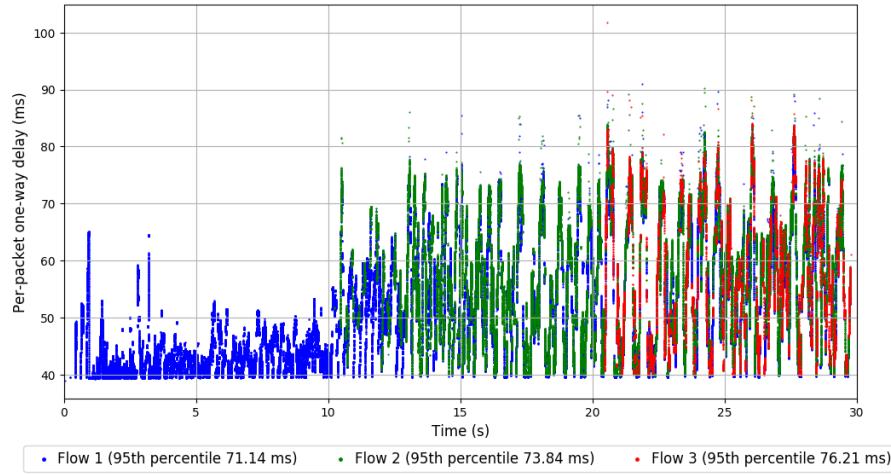
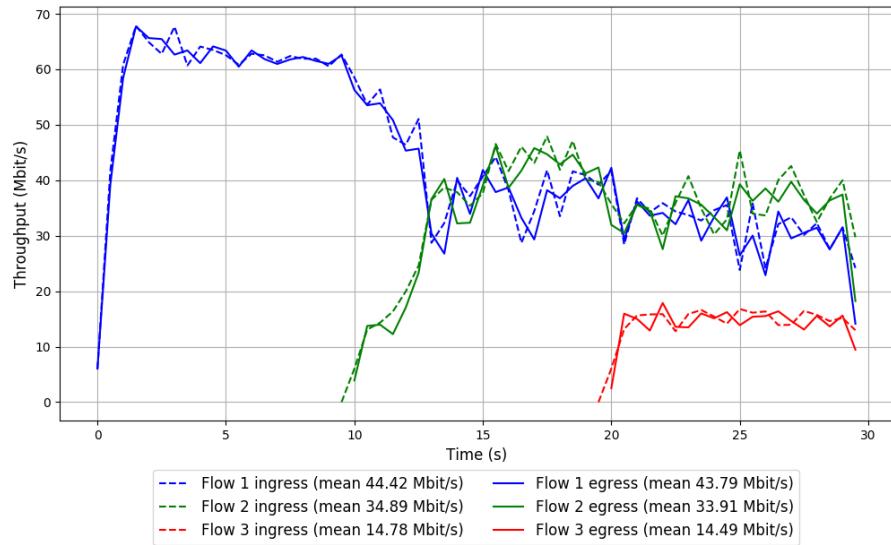


Run 1: Statistics of TaoVA-100x

```
Start at: 2018-04-24 17:00:04
End at: 2018-04-24 17:00:34
Local clock offset: -5.822 ms
Remote clock offset: -10.399 ms

# Below is generated by plot.py at 2018-04-25 00:48:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 71.04 Mbit/s
95th percentile per-packet one-way delay: 72.768 ms
Loss rate: 2.67%
-- Flow 1:
Average throughput: 43.79 Mbit/s
95th percentile per-packet one-way delay: 71.140 ms
Loss rate: 2.02%
-- Flow 2:
Average throughput: 33.91 Mbit/s
95th percentile per-packet one-way delay: 73.845 ms
Loss rate: 3.64%
-- Flow 3:
Average throughput: 14.49 Mbit/s
95th percentile per-packet one-way delay: 76.206 ms
Loss rate: 3.95%
```

Run 1: Report of TaoVA-100x — Data Link

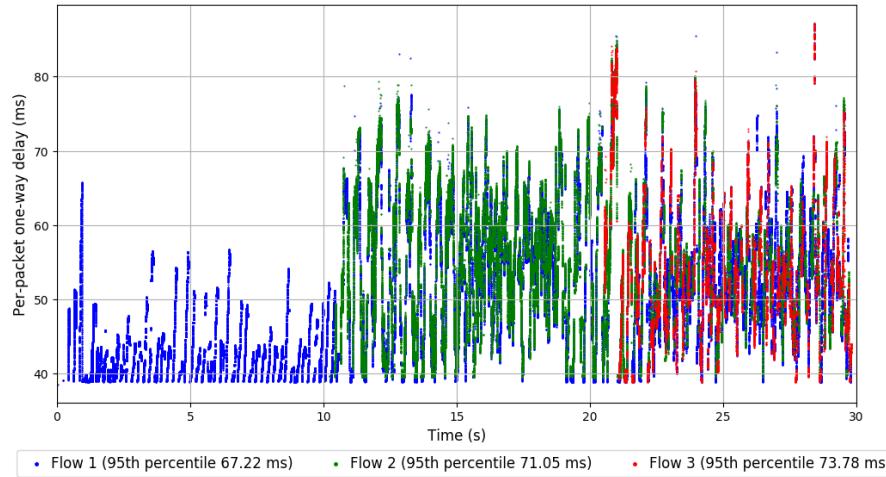
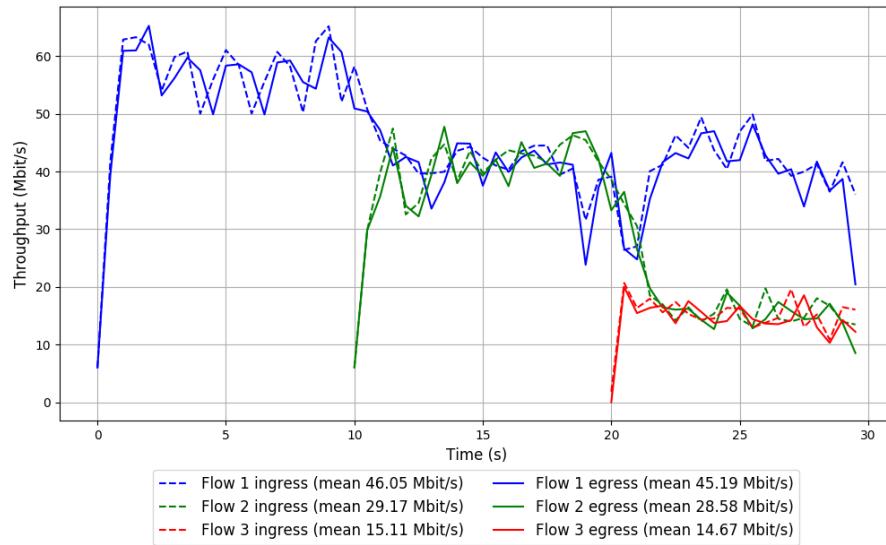


Run 2: Statistics of TaoVA-100x

```
Start at: 2018-04-24 17:22:56
End at: 2018-04-24 17:23:26
Local clock offset: -0.907 ms
Remote clock offset: -6.323 ms

# Below is generated by plot.py at 2018-04-25 00:48:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 68.85 Mbit/s
95th percentile per-packet one-way delay: 69.084 ms
Loss rate: 2.85%
-- Flow 1:
Average throughput: 45.19 Mbit/s
95th percentile per-packet one-way delay: 67.215 ms
Loss rate: 2.53%
-- Flow 2:
Average throughput: 28.58 Mbit/s
95th percentile per-packet one-way delay: 71.048 ms
Loss rate: 3.07%
-- Flow 3:
Average throughput: 14.67 Mbit/s
95th percentile per-packet one-way delay: 73.785 ms
Loss rate: 5.00%
```

Run 2: Report of TaoVA-100x — Data Link

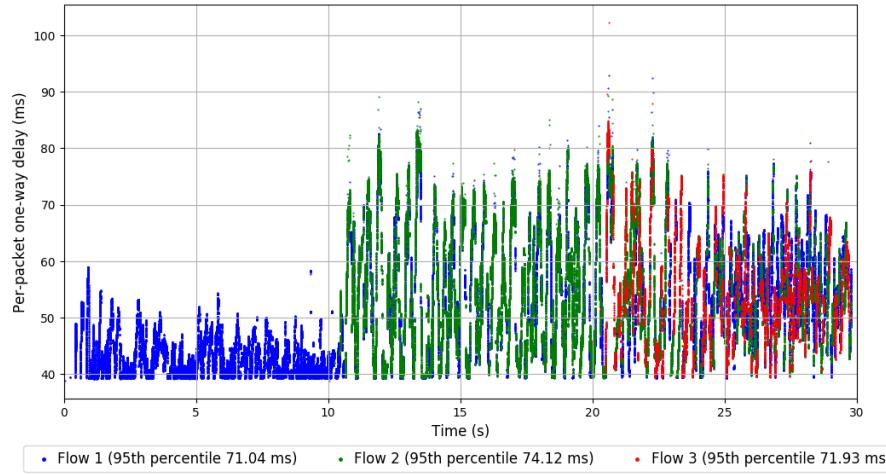
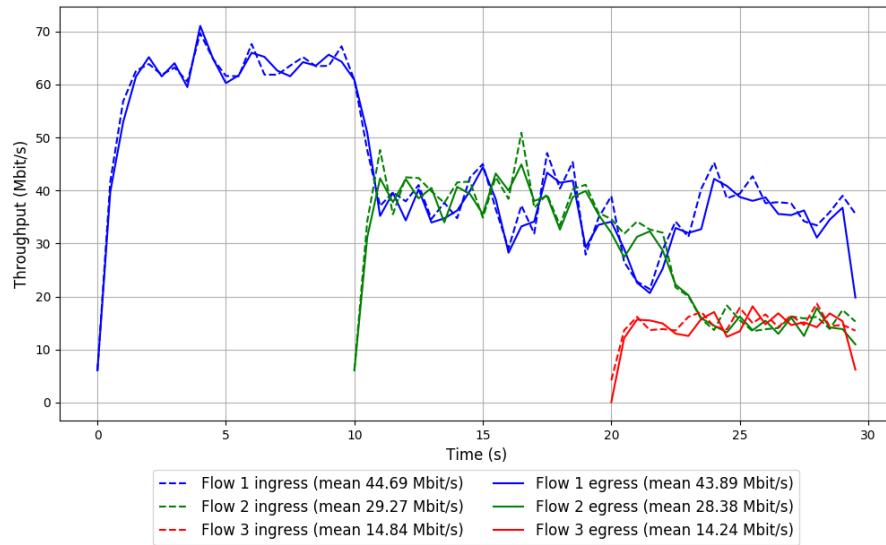


Run 3: Statistics of TaoVA-100x

```
Start at: 2018-04-24 17:46:00
End at: 2018-04-24 17:46:30
Local clock offset: -3.942 ms
Remote clock offset: -2.227 ms

# Below is generated by plot.py at 2018-04-25 00:48:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 67.34 Mbit/s
95th percentile per-packet one-way delay: 72.430 ms
Loss rate: 3.18%
-- Flow 1:
Average throughput: 43.89 Mbit/s
95th percentile per-packet one-way delay: 71.042 ms
Loss rate: 2.47%
-- Flow 2:
Average throughput: 28.38 Mbit/s
95th percentile per-packet one-way delay: 74.119 ms
Loss rate: 4.06%
-- Flow 3:
Average throughput: 14.24 Mbit/s
95th percentile per-packet one-way delay: 71.930 ms
Loss rate: 6.12%
```

Run 3: Report of TaoVA-100x — Data Link

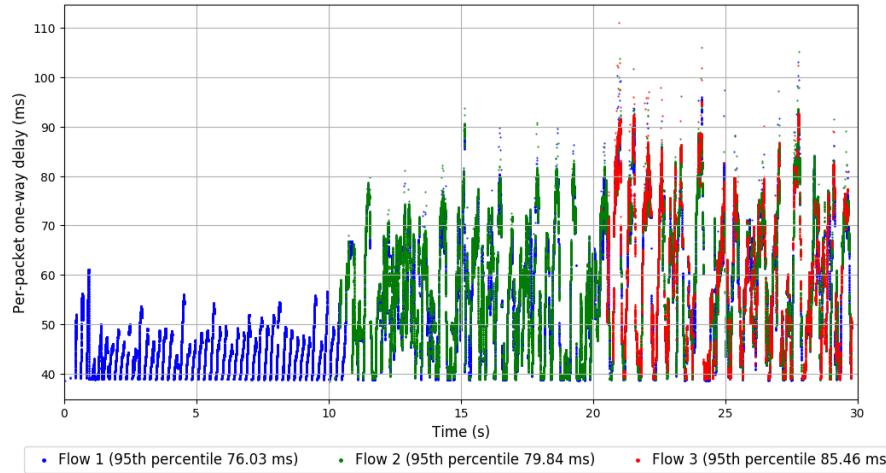
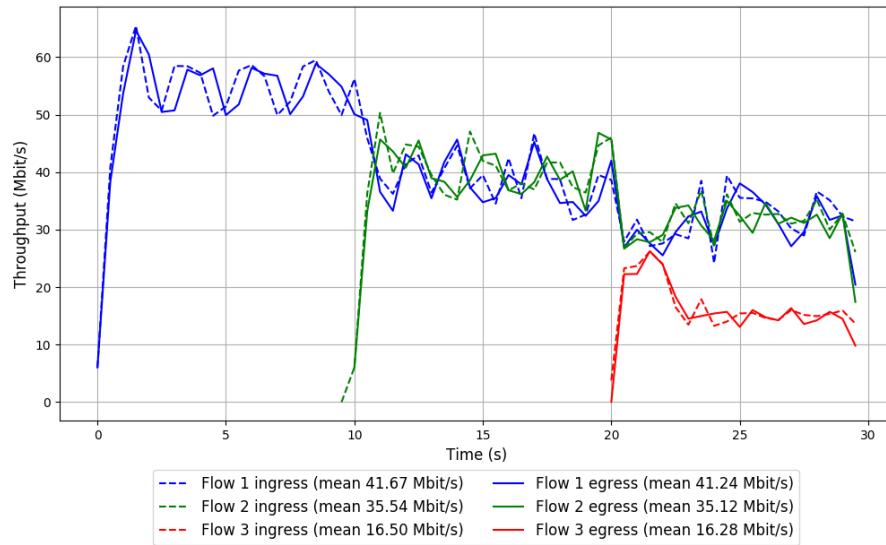


Run 4: Statistics of TaoVA-100x

```
Start at: 2018-04-24 18:08:54
End at: 2018-04-24 18:09:24
Local clock offset: -6.482 ms
Remote clock offset: -1.602 ms

# Below is generated by plot.py at 2018-04-25 00:48:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 69.87 Mbit/s
95th percentile per-packet one-way delay: 78.755 ms
Loss rate: 1.97%
-- Flow 1:
Average throughput: 41.24 Mbit/s
95th percentile per-packet one-way delay: 76.025 ms
Loss rate: 1.67%
-- Flow 2:
Average throughput: 35.12 Mbit/s
95th percentile per-packet one-way delay: 79.840 ms
Loss rate: 2.17%
-- Flow 3:
Average throughput: 16.28 Mbit/s
95th percentile per-packet one-way delay: 85.462 ms
Loss rate: 3.40%
```

Run 4: Report of TaoVA-100x — Data Link

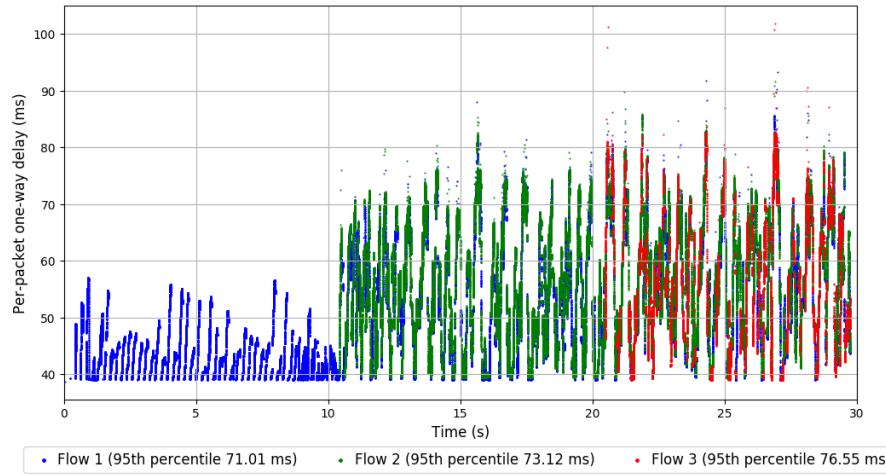
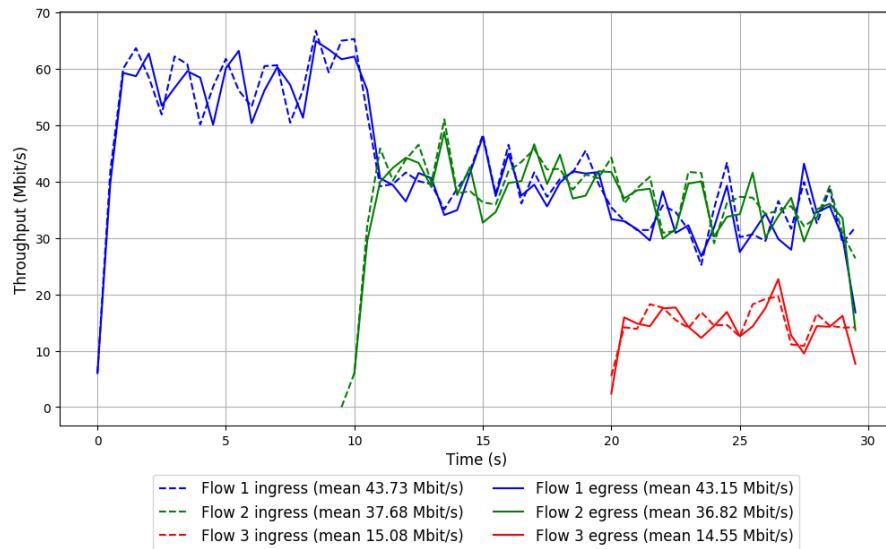


Run 5: Statistics of TaoVA-100x

```
Start at: 2018-04-24 18:31:48
End at: 2018-04-24 18:32:18
Local clock offset: -0.648 ms
Remote clock offset: -1.416 ms

# Below is generated by plot.py at 2018-04-25 00:48:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 72.33 Mbit/s
95th percentile per-packet one-way delay: 72.443 ms
Loss rate: 2.56%
-- Flow 1:
Average throughput: 43.15 Mbit/s
95th percentile per-packet one-way delay: 71.011 ms
Loss rate: 1.96%
-- Flow 2:
Average throughput: 36.82 Mbit/s
95th percentile per-packet one-way delay: 73.123 ms
Loss rate: 3.23%
-- Flow 3:
Average throughput: 14.55 Mbit/s
95th percentile per-packet one-way delay: 76.552 ms
Loss rate: 4.50%
```

Run 5: Report of TaoVA-100x — Data Link

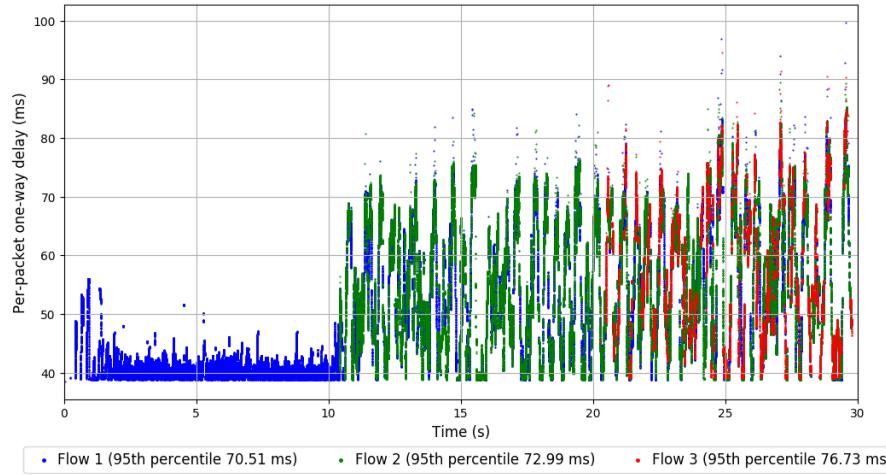
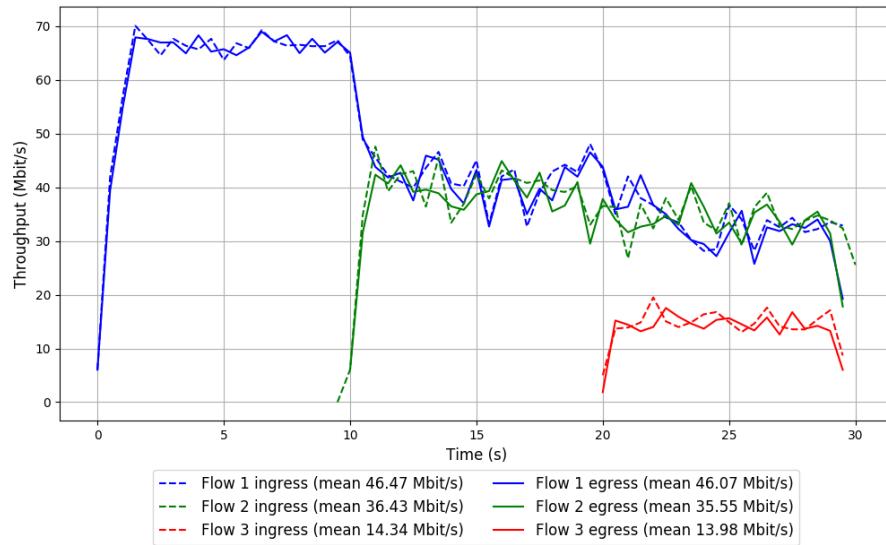


Run 6: Statistics of TaoVA-100x

```
Start at: 2018-04-24 18:54:40
End at: 2018-04-24 18:55:10
Local clock offset: 1.816 ms
Remote clock offset: -1.524 ms

# Below is generated by plot.py at 2018-04-25 00:48:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 74.23 Mbit/s
95th percentile per-packet one-way delay: 72.132 ms
Loss rate: 2.95%
-- Flow 1:
Average throughput: 46.07 Mbit/s
95th percentile per-packet one-way delay: 70.512 ms
Loss rate: 1.64%
-- Flow 2:
Average throughput: 35.55 Mbit/s
95th percentile per-packet one-way delay: 72.991 ms
Loss rate: 4.98%
-- Flow 3:
Average throughput: 13.98 Mbit/s
95th percentile per-packet one-way delay: 76.727 ms
Loss rate: 5.24%
```

Run 6: Report of TaoVA-100x — Data Link

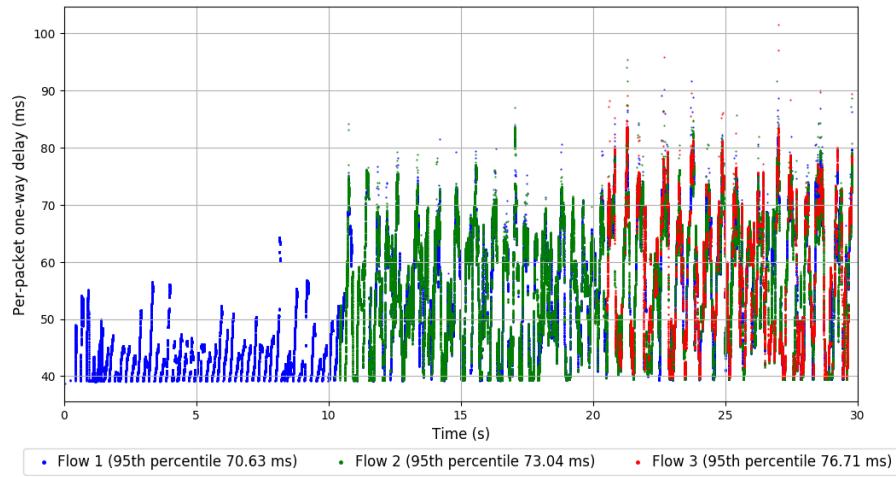
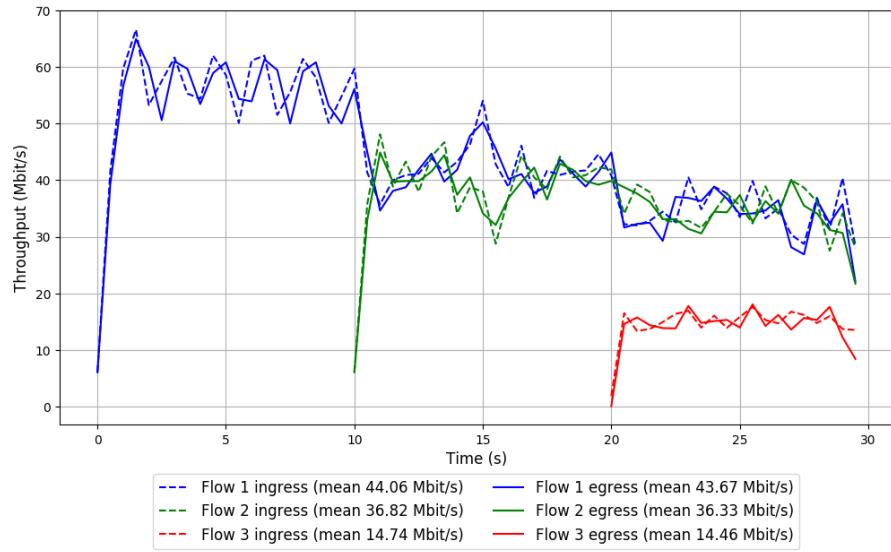


Run 7: Statistics of TaoVA-100x

```
Start at: 2018-04-24 19:17:34
End at: 2018-04-24 19:18:04
Local clock offset: 3.311 ms
Remote clock offset: -1.199 ms

# Below is generated by plot.py at 2018-04-25 00:48:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 72.49 Mbit/s
95th percentile per-packet one-way delay: 72.285 ms
Loss rate: 1.93%
-- Flow 1:
Average throughput: 43.67 Mbit/s
95th percentile per-packet one-way delay: 70.629 ms
Loss rate: 1.52%
-- Flow 2:
Average throughput: 36.33 Mbit/s
95th percentile per-packet one-way delay: 73.040 ms
Loss rate: 2.30%
-- Flow 3:
Average throughput: 14.46 Mbit/s
95th percentile per-packet one-way delay: 76.712 ms
Loss rate: 3.85%
```

Run 7: Report of TaoVA-100x — Data Link

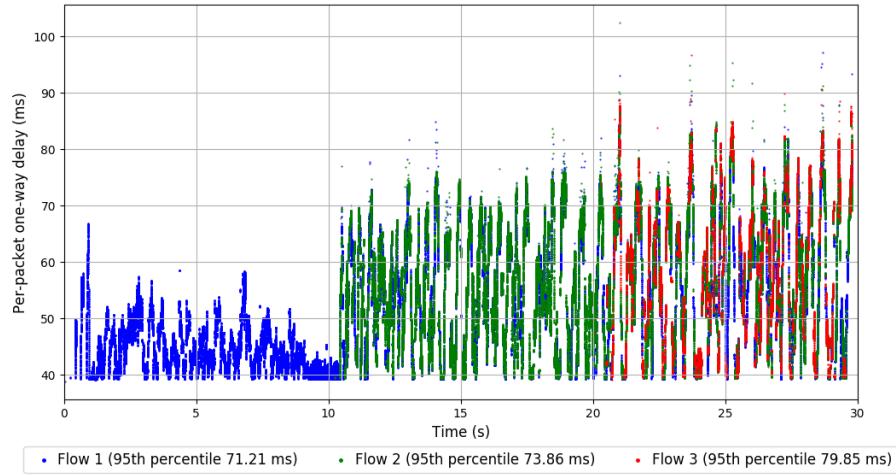
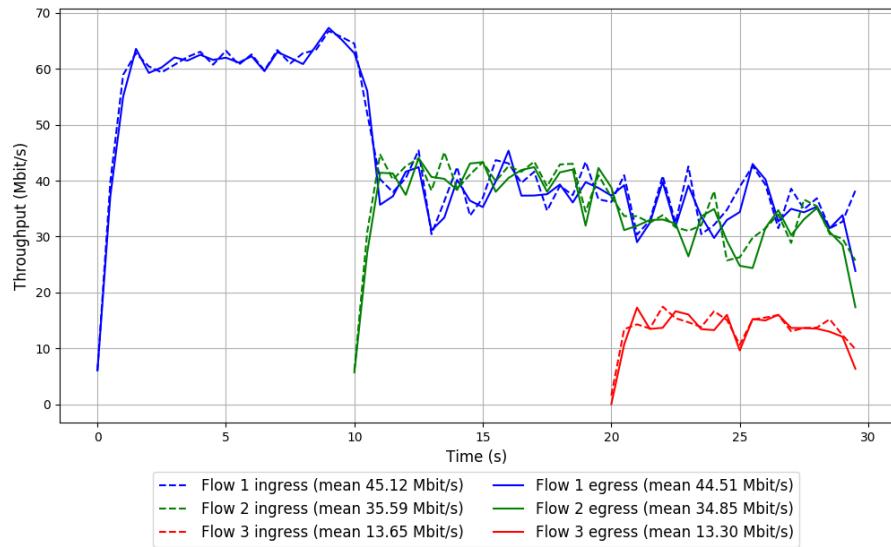


Run 8: Statistics of TaoVA-100x

```
Start at: 2018-04-24 19:40:23
End at: 2018-04-24 19:40:53
Local clock offset: -2.531 ms
Remote clock offset: -0.893 ms

# Below is generated by plot.py at 2018-04-25 00:49:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 71.99 Mbit/s
95th percentile per-packet one-way delay: 73.055 ms
Loss rate: 2.46%
-- Flow 1:
Average throughput: 44.51 Mbit/s
95th percentile per-packet one-way delay: 71.211 ms
Loss rate: 1.94%
-- Flow 2:
Average throughput: 34.85 Mbit/s
95th percentile per-packet one-way delay: 73.855 ms
Loss rate: 3.06%
-- Flow 3:
Average throughput: 13.30 Mbit/s
95th percentile per-packet one-way delay: 79.853 ms
Loss rate: 4.57%
```

Run 8: Report of TaoVA-100x — Data Link

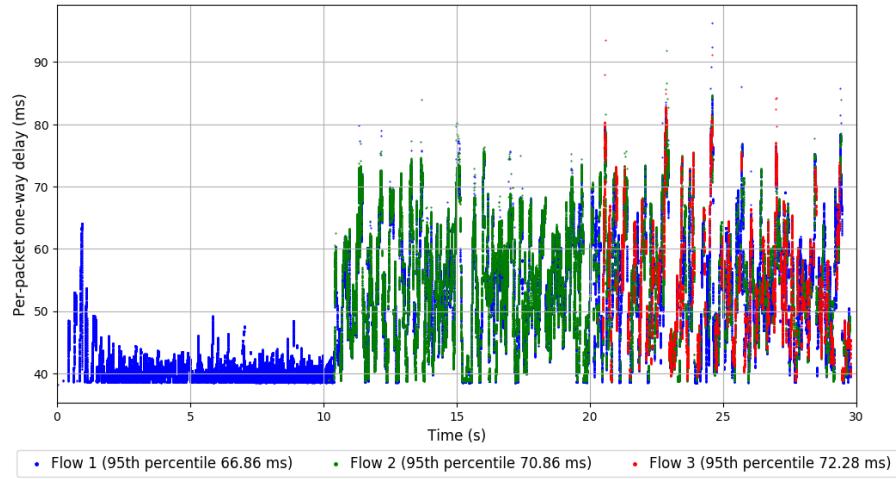
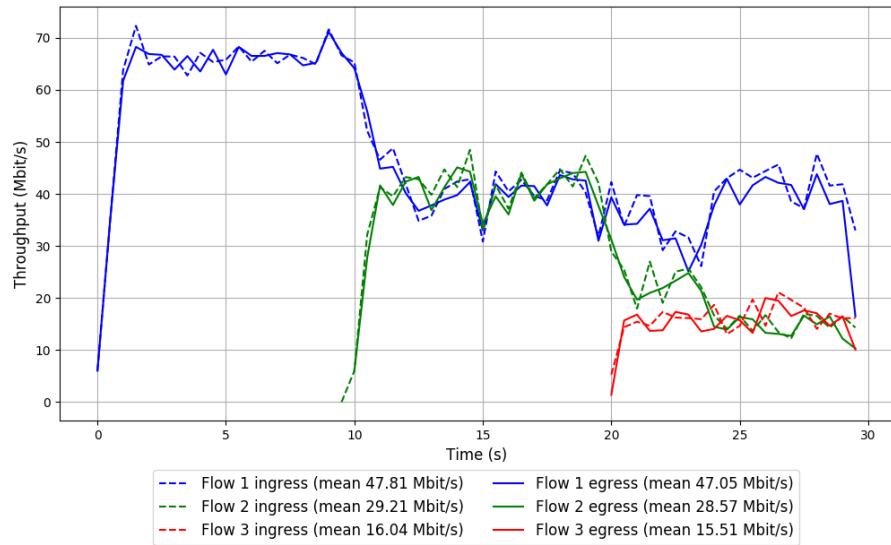


Run 9: Statistics of TaoVA-100x

```
Start at: 2018-04-24 20:03:15
End at: 2018-04-24 20:03:45
Local clock offset: 2.328 ms
Remote clock offset: -0.693 ms

# Below is generated by plot.py at 2018-04-25 00:50:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 71.07 Mbit/s
95th percentile per-packet one-way delay: 68.719 ms
Loss rate: 2.79%
-- Flow 1:
Average throughput: 47.05 Mbit/s
95th percentile per-packet one-way delay: 66.861 ms
Loss rate: 2.29%
-- Flow 2:
Average throughput: 28.57 Mbit/s
95th percentile per-packet one-way delay: 70.855 ms
Loss rate: 3.24%
-- Flow 3:
Average throughput: 15.51 Mbit/s
95th percentile per-packet one-way delay: 72.280 ms
Loss rate: 5.56%
```

Run 9: Report of TaoVA-100x — Data Link

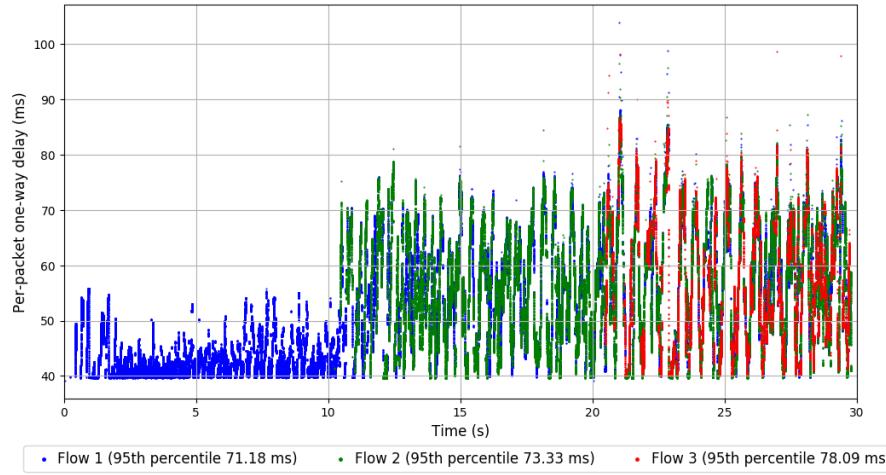
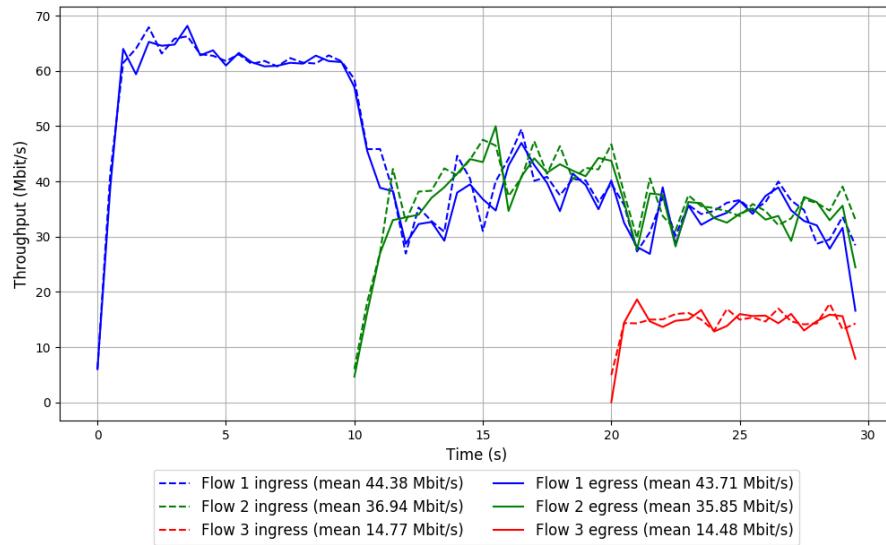


Run 10: Statistics of TaoVA-100x

```
Start at: 2018-04-24 20:26:23
End at: 2018-04-24 20:26:53
Local clock offset: 5.967 ms
Remote clock offset: -0.664 ms

# Below is generated by plot.py at 2018-04-25 00:50:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 72.20 Mbit/s
95th percentile per-packet one-way delay: 72.478 ms
Loss rate: 2.90%
-- Flow 1:
Average throughput: 43.71 Mbit/s
95th percentile per-packet one-way delay: 71.183 ms
Loss rate: 2.20%
-- Flow 2:
Average throughput: 35.85 Mbit/s
95th percentile per-packet one-way delay: 73.327 ms
Loss rate: 3.95%
-- Flow 3:
Average throughput: 14.48 Mbit/s
95th percentile per-packet one-way delay: 78.089 ms
Loss rate: 4.01%
```

Run 10: Report of TaoVA-100x — Data Link

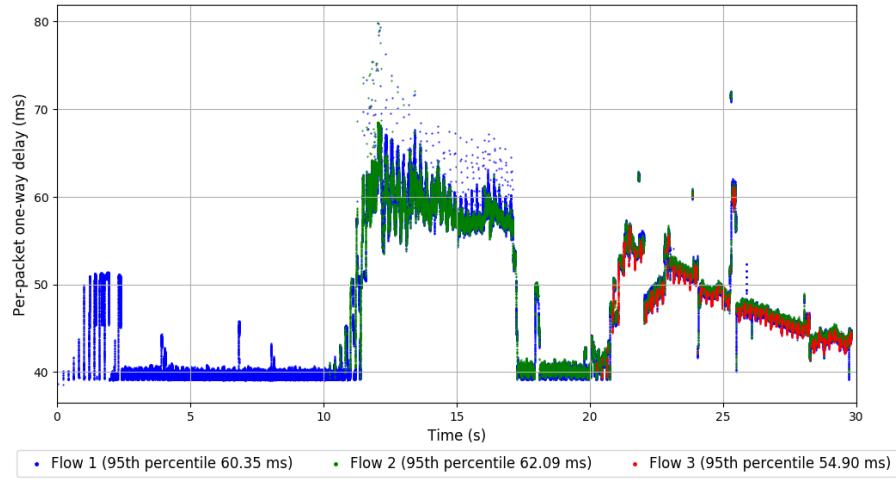
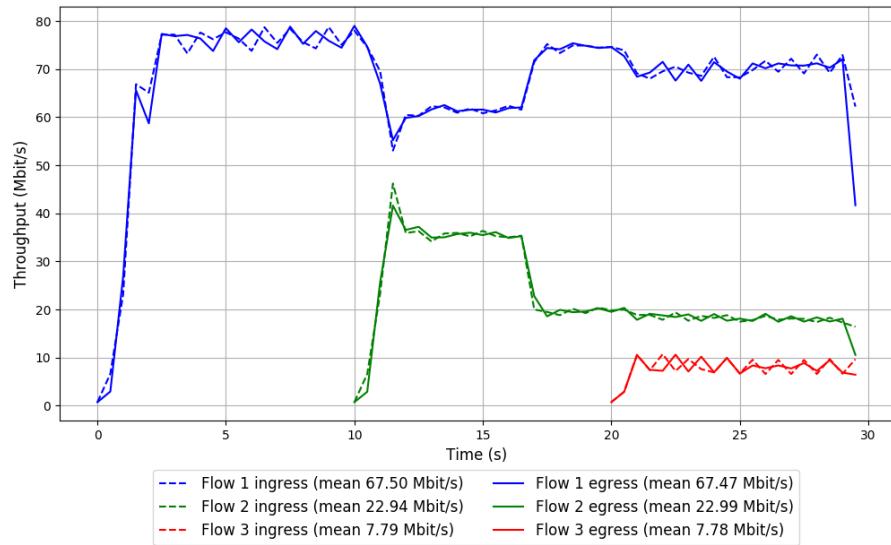


Run 1: Statistics of TCP Vegas

```
Start at: 2018-04-24 17:10:46
End at: 2018-04-24 17:11:16
Local clock offset: -2.066 ms
Remote clock offset: -6.074 ms

# Below is generated by plot.py at 2018-04-25 00:50:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.27 Mbit/s
95th percentile per-packet one-way delay: 60.815 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 67.47 Mbit/s
95th percentile per-packet one-way delay: 60.353 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 22.99 Mbit/s
95th percentile per-packet one-way delay: 62.087 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 7.78 Mbit/s
95th percentile per-packet one-way delay: 54.898 ms
Loss rate: 2.11%
```

Run 1: Report of TCP Vegas — Data Link

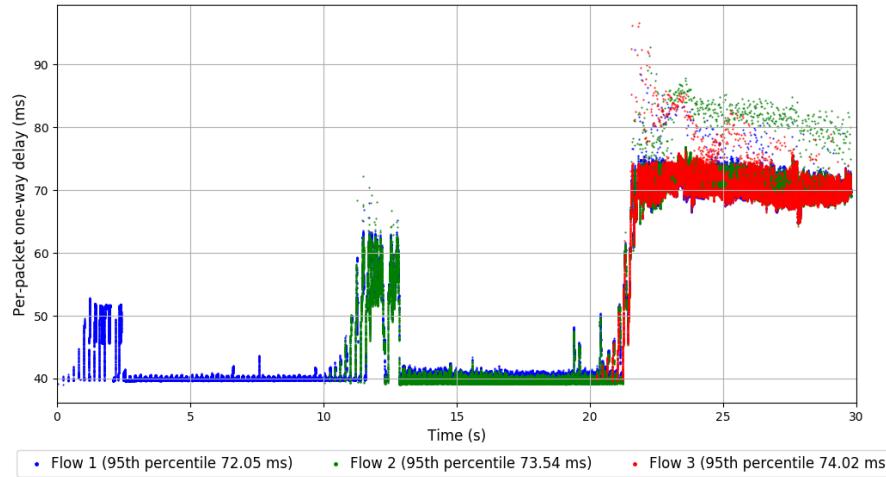
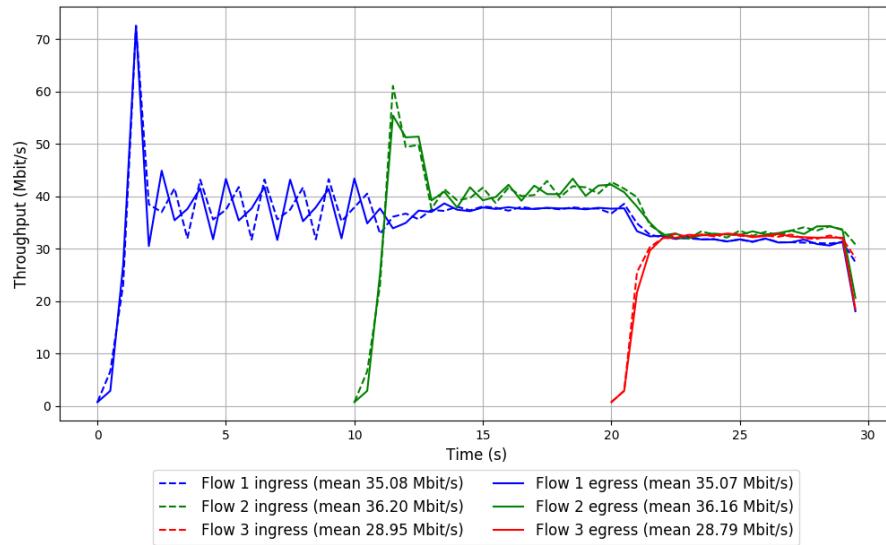


Run 2: Statistics of TCP Vegas

```
Start at: 2018-04-24 17:33:38
End at: 2018-04-24 17:34:08
Local clock offset: -0.89 ms
Remote clock offset: -4.441 ms

# Below is generated by plot.py at 2018-04-25 00:50:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 68.47 Mbit/s
95th percentile per-packet one-way delay: 73.164 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 35.07 Mbit/s
95th percentile per-packet one-way delay: 72.050 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 36.16 Mbit/s
95th percentile per-packet one-way delay: 73.537 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 28.79 Mbit/s
95th percentile per-packet one-way delay: 74.019 ms
Loss rate: 2.46%
```

Run 2: Report of TCP Vegas — Data Link

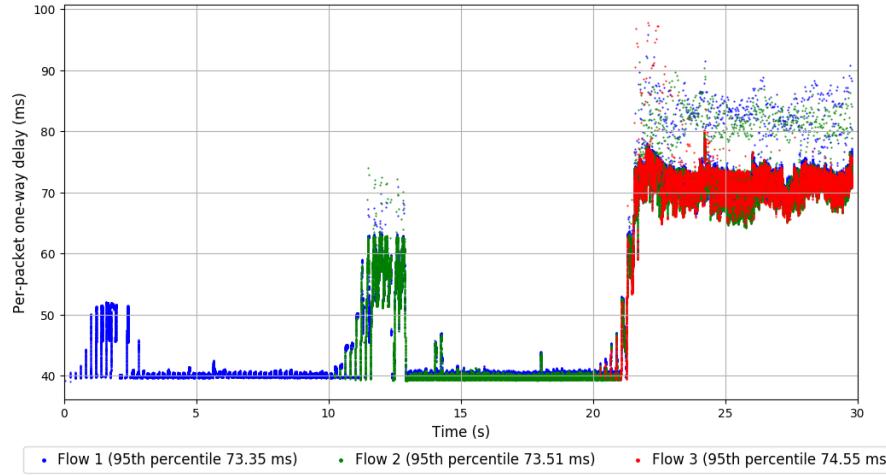
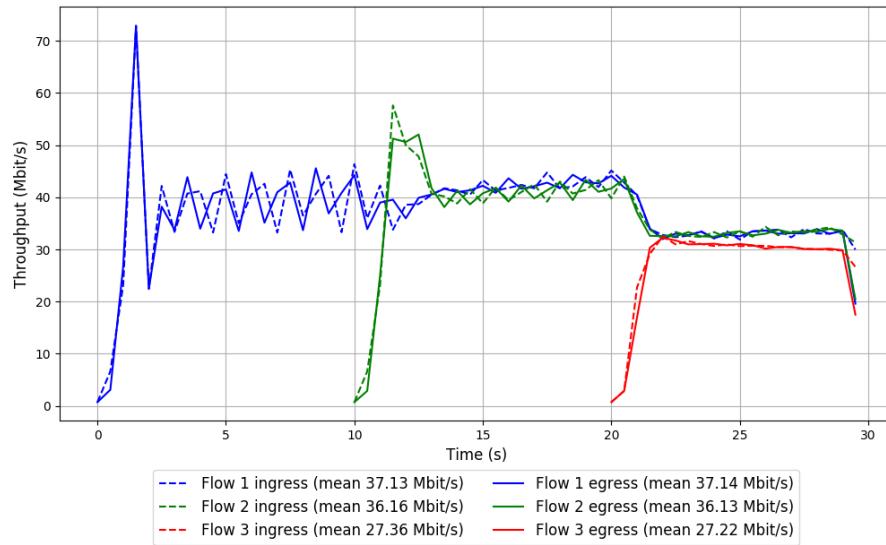


Run 3: Statistics of TCP Vegas

```
Start at: 2018-04-24 17:56:44
End at: 2018-04-24 17:57:14
Local clock offset: -5.355 ms
Remote clock offset: -2.006 ms

# Below is generated by plot.py at 2018-04-25 00:50:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 70.00 Mbit/s
95th percentile per-packet one-way delay: 73.671 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 37.14 Mbit/s
95th percentile per-packet one-way delay: 73.354 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 36.13 Mbit/s
95th percentile per-packet one-way delay: 73.512 ms
Loss rate: 1.07%
-- Flow 3:
Average throughput: 27.22 Mbit/s
95th percentile per-packet one-way delay: 74.546 ms
Loss rate: 2.47%
```

Run 3: Report of TCP Vegas — Data Link

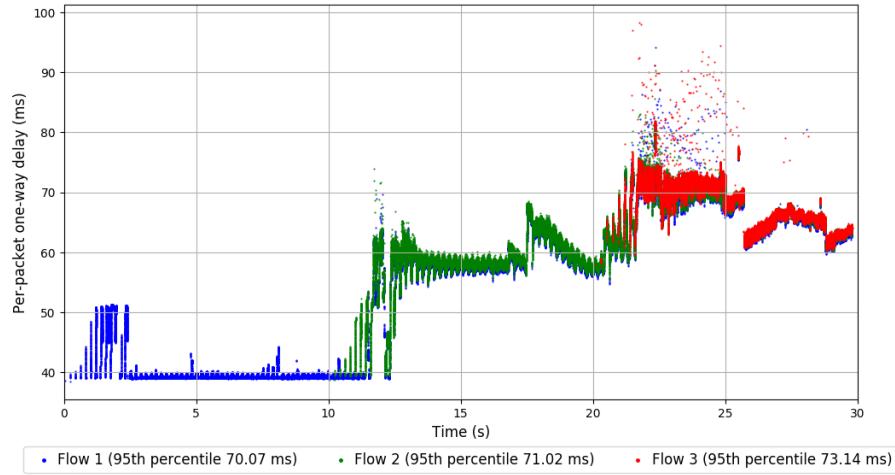
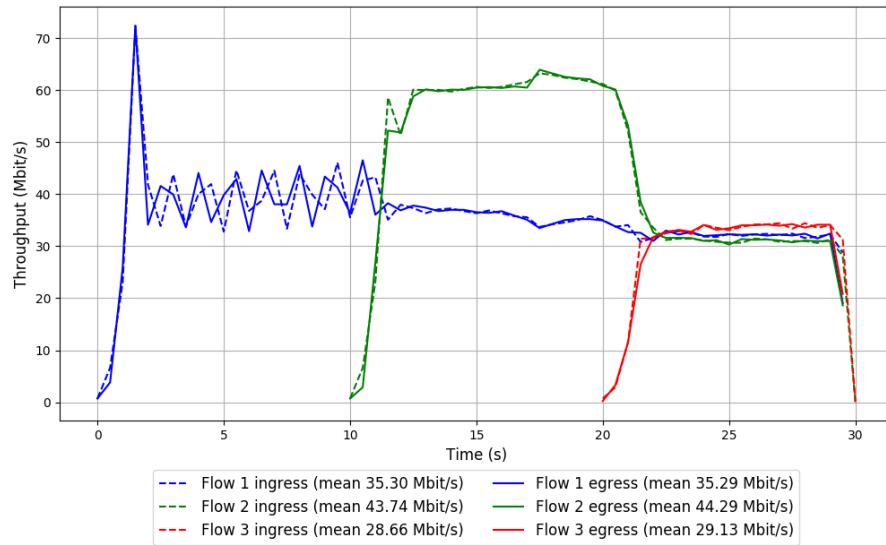


Run 4: Statistics of TCP Vegas

```
Start at: 2018-04-24 18:19:37
End at: 2018-04-24 18:20:07
Local clock offset: -2.11 ms
Remote clock offset: -1.322 ms

# Below is generated by plot.py at 2018-04-25 00:50:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 74.18 Mbit/s
95th percentile per-packet one-way delay: 71.615 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 35.29 Mbit/s
95th percentile per-packet one-way delay: 70.067 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 44.29 Mbit/s
95th percentile per-packet one-way delay: 71.020 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 29.13 Mbit/s
95th percentile per-packet one-way delay: 73.135 ms
Loss rate: 2.53%
```

Run 4: Report of TCP Vegas — Data Link

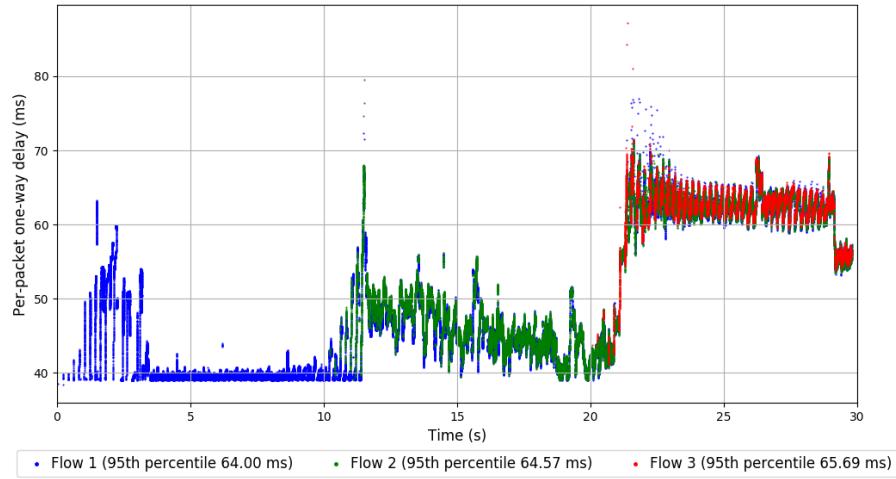
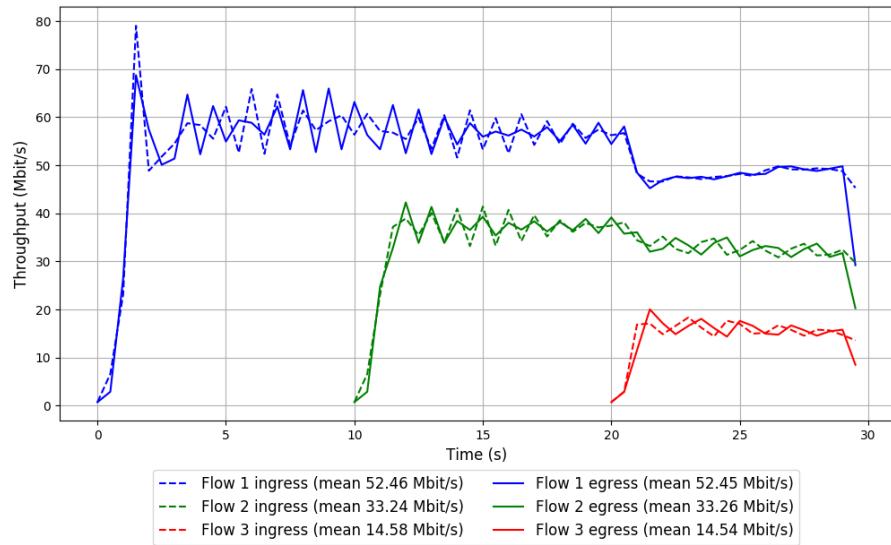


Run 5: Statistics of TCP Vegas

```
Start at: 2018-04-24 18:42:32
End at: 2018-04-24 18:43:02
Local clock offset: -0.383 ms
Remote clock offset: -1.471 ms

# Below is generated by plot.py at 2018-04-25 00:50:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.28 Mbit/s
95th percentile per-packet one-way delay: 64.334 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 52.45 Mbit/s
95th percentile per-packet one-way delay: 63.999 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 33.26 Mbit/s
95th percentile per-packet one-way delay: 64.574 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 14.54 Mbit/s
95th percentile per-packet one-way delay: 65.688 ms
Loss rate: 2.26%
```

Run 5: Report of TCP Vegas — Data Link

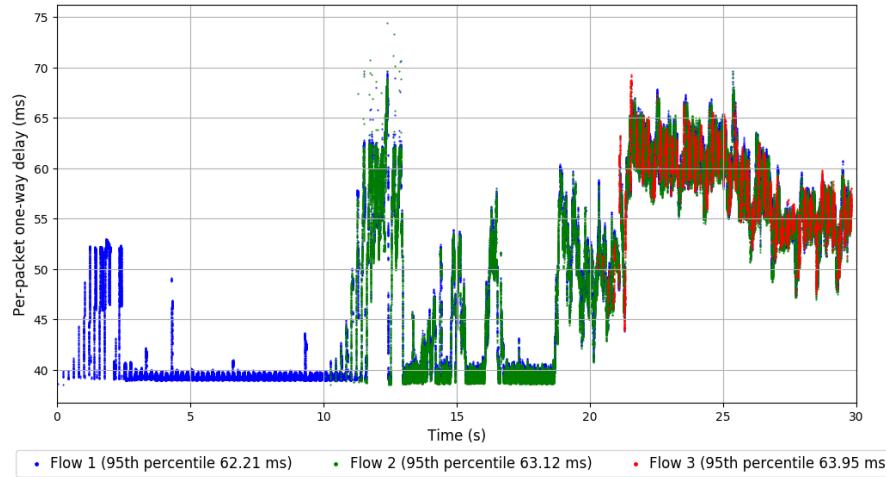
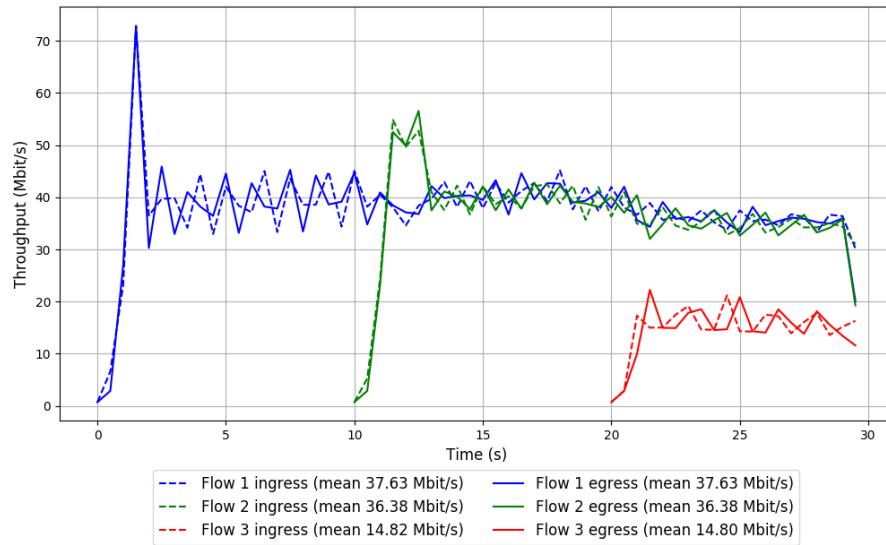


Run 6: Statistics of TCP Vegas

```
Start at: 2018-04-24 19:05:24
End at: 2018-04-24 19:05:55
Local clock offset: 2.588 ms
Remote clock offset: -1.621 ms

# Below is generated by plot.py at 2018-04-25 00:50:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.53 Mbit/s
95th percentile per-packet one-way delay: 62.803 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 37.63 Mbit/s
95th percentile per-packet one-way delay: 62.210 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 36.38 Mbit/s
95th percentile per-packet one-way delay: 63.120 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 14.80 Mbit/s
95th percentile per-packet one-way delay: 63.949 ms
Loss rate: 2.23%
```

Run 6: Report of TCP Vegas — Data Link

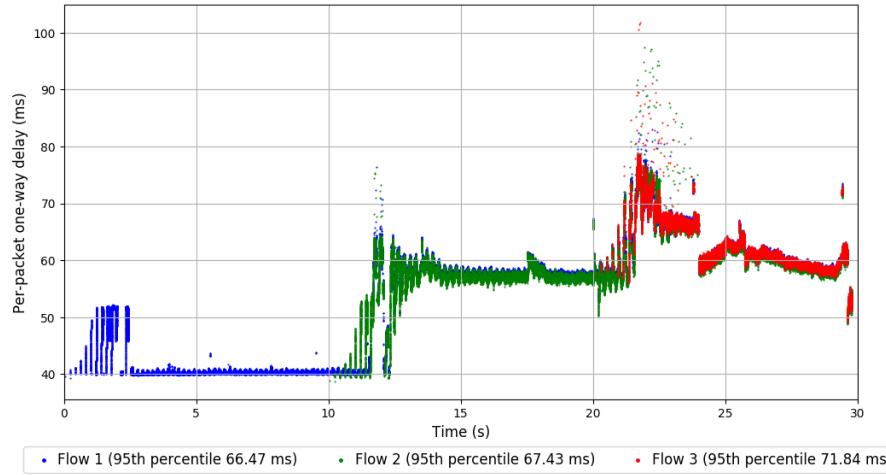
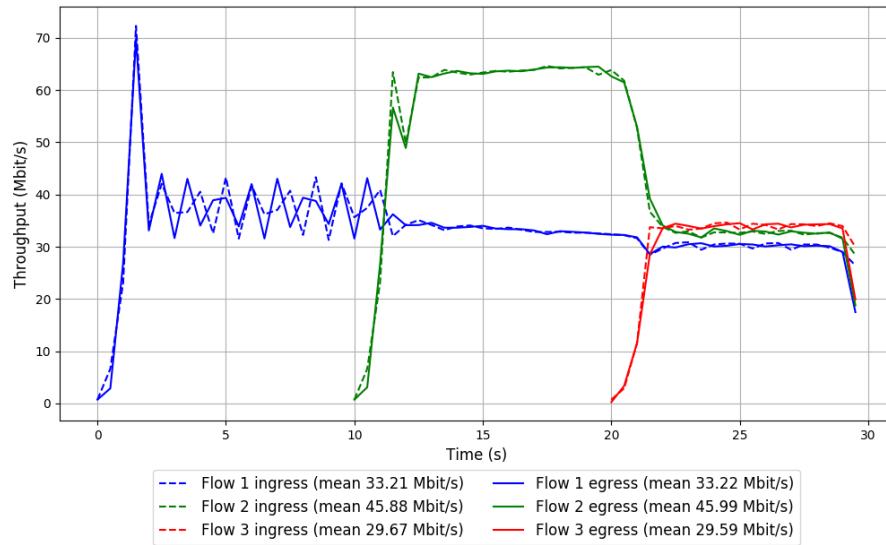


Run 7: Statistics of TCP Vegas

```
Start at: 2018-04-24 19:28:16
End at: 2018-04-24 19:28:46
Local clock offset: -0.882 ms
Remote clock offset: -1.022 ms

# Below is generated by plot.py at 2018-04-25 00:50:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 73.40 Mbit/s
95th percentile per-packet one-way delay: 67.762 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 33.22 Mbit/s
95th percentile per-packet one-way delay: 66.469 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 45.99 Mbit/s
95th percentile per-packet one-way delay: 67.429 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 29.59 Mbit/s
95th percentile per-packet one-way delay: 71.845 ms
Loss rate: 2.47%
```

Run 7: Report of TCP Vegas — Data Link

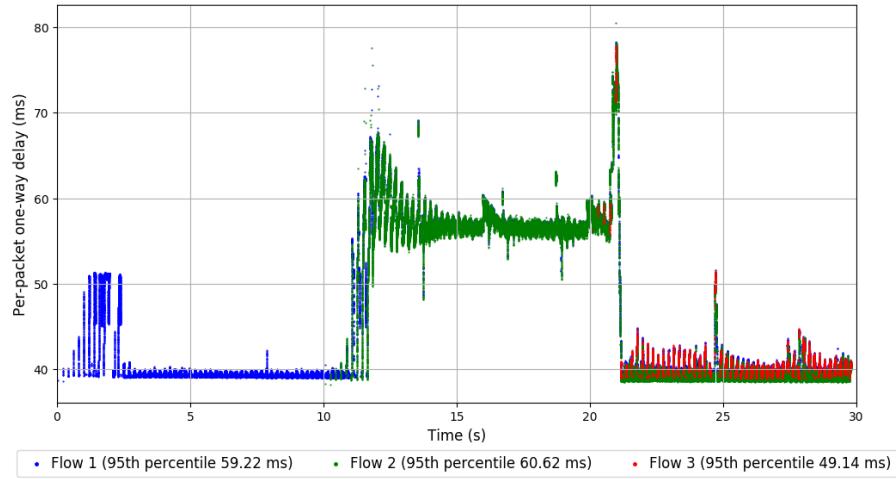
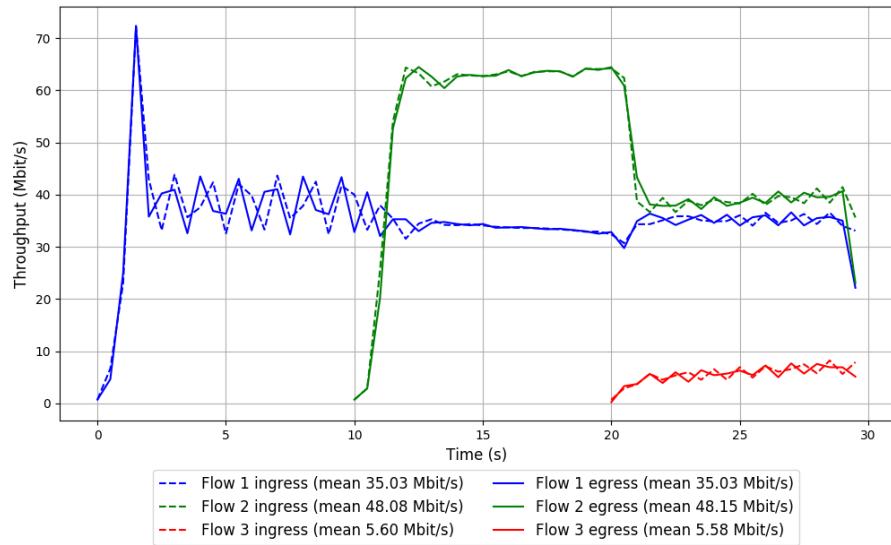


Run 8: Statistics of TCP Vegas

```
Start at: 2018-04-24 19:51:06
End at: 2018-04-24 19:51:36
Local clock offset: -3.116 ms
Remote clock offset: -0.811 ms

# Below is generated by plot.py at 2018-04-25 00:50:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 68.77 Mbit/s
95th percentile per-packet one-way delay: 59.794 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 35.03 Mbit/s
95th percentile per-packet one-way delay: 59.220 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 48.15 Mbit/s
95th percentile per-packet one-way delay: 60.620 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 5.58 Mbit/s
95th percentile per-packet one-way delay: 49.144 ms
Loss rate: 2.50%
```

Run 8: Report of TCP Vegas — Data Link

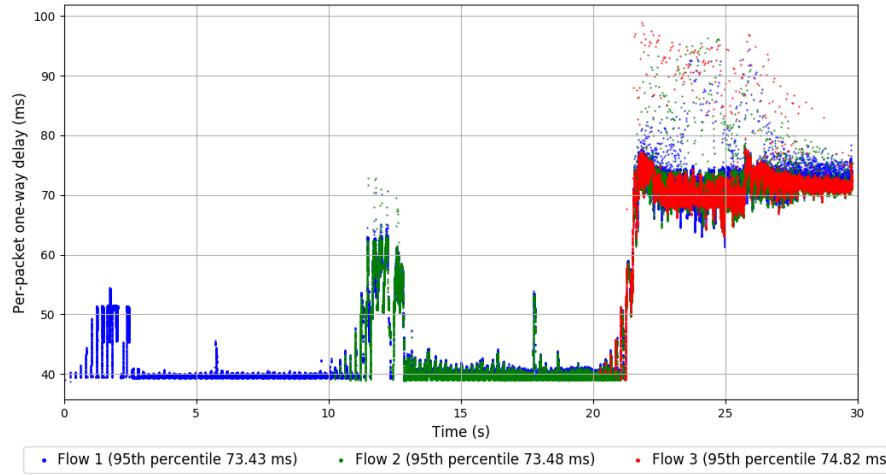
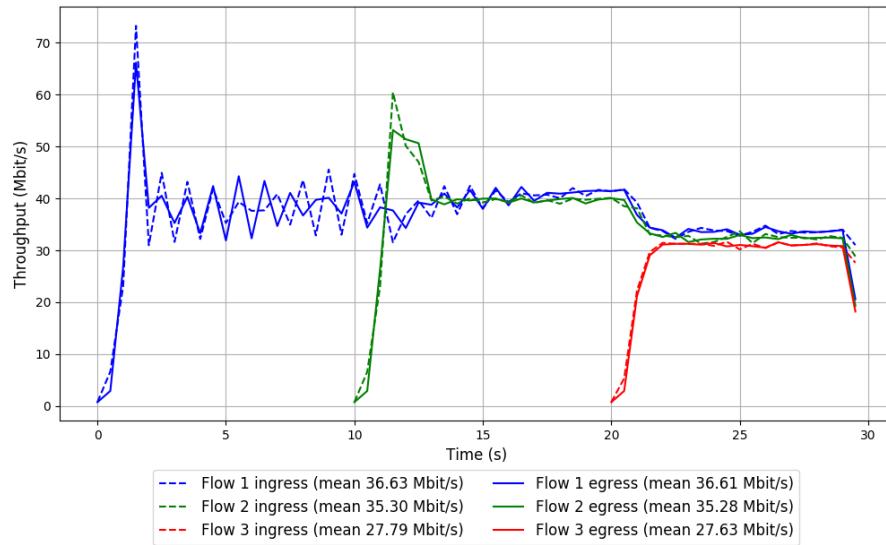


Run 9: Statistics of TCP Vegas

```
Start at: 2018-04-24 20:14:12
End at: 2018-04-24 20:14:42
Local clock offset: 4.548 ms
Remote clock offset: -0.727 ms

# Below is generated by plot.py at 2018-04-25 00:51:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 69.06 Mbit/s
95th percentile per-packet one-way delay: 73.725 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 36.61 Mbit/s
95th percentile per-packet one-way delay: 73.432 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 35.28 Mbit/s
95th percentile per-packet one-way delay: 73.479 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 27.63 Mbit/s
95th percentile per-packet one-way delay: 74.822 ms
Loss rate: 2.47%
```

Run 9: Report of TCP Vegas — Data Link

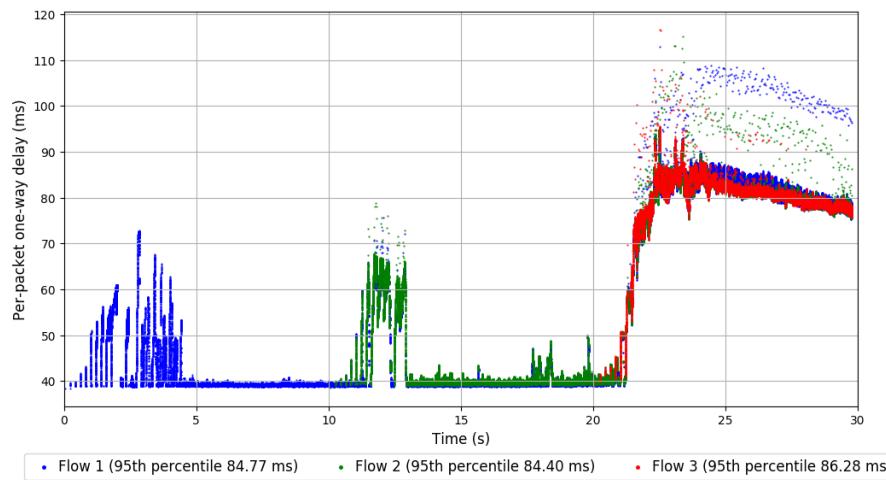
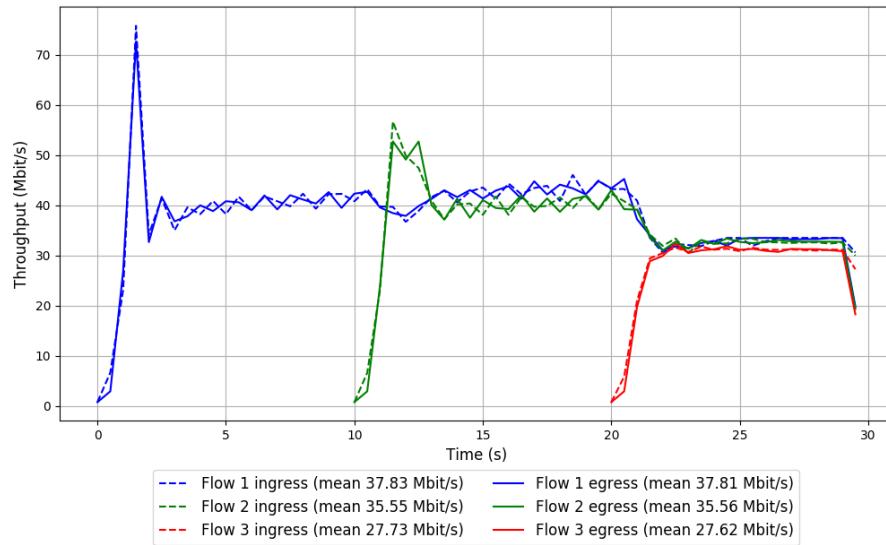


Run 10: Statistics of TCP Vegas

```
Start at: 2018-04-24 20:37:06
End at: 2018-04-24 20:37:36
Local clock offset: 3.958 ms
Remote clock offset: -0.559 ms

# Below is generated by plot.py at 2018-04-25 00:51:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 70.41 Mbit/s
95th percentile per-packet one-way delay: 84.987 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 37.81 Mbit/s
95th percentile per-packet one-way delay: 84.771 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 35.56 Mbit/s
95th percentile per-packet one-way delay: 84.403 ms
Loss rate: 1.07%
-- Flow 3:
Average throughput: 27.62 Mbit/s
95th percentile per-packet one-way delay: 86.275 ms
Loss rate: 2.60%
```

Run 10: Report of TCP Vegas — Data Link

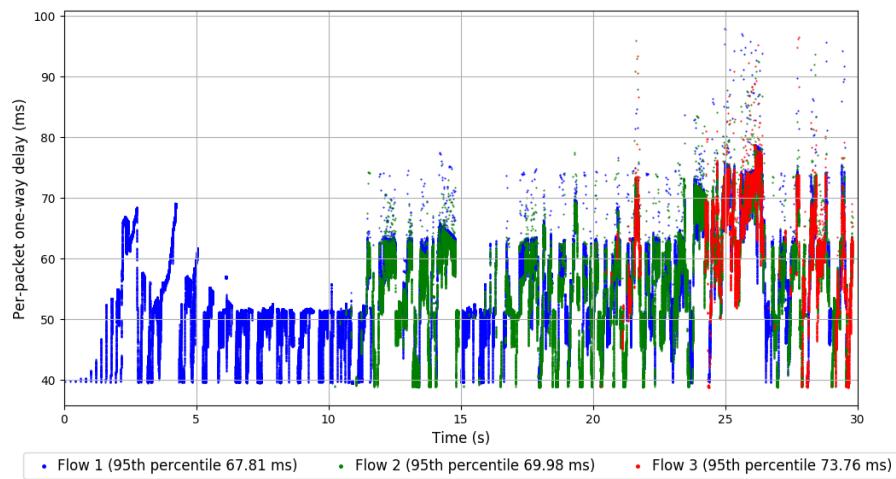
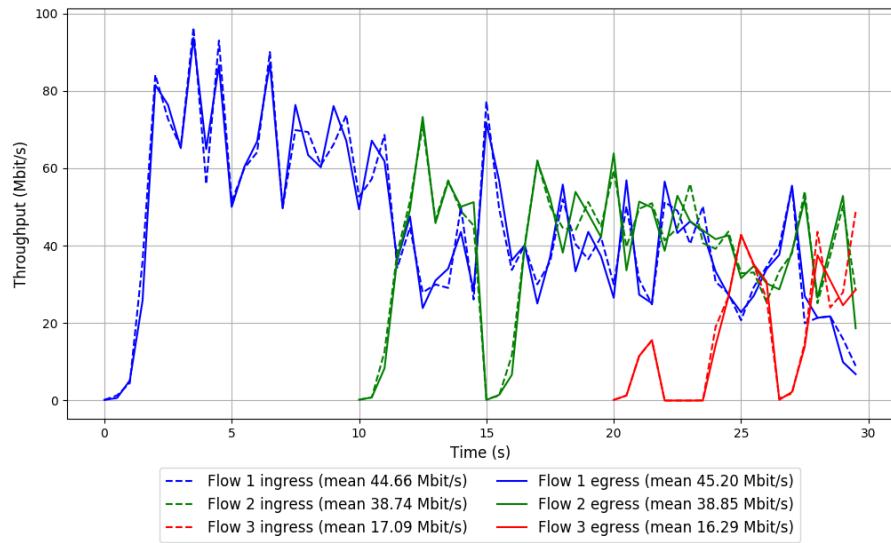


Run 1: Statistics of Verus

```
Start at: 2018-04-24 17:20:12
End at: 2018-04-24 17:20:42
Local clock offset: -1.054 ms
Remote clock offset: -6.089 ms

# Below is generated by plot.py at 2018-04-25 00:51:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.90 Mbit/s
95th percentile per-packet one-way delay: 69.578 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 45.20 Mbit/s
95th percentile per-packet one-way delay: 67.815 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 38.85 Mbit/s
95th percentile per-packet one-way delay: 69.983 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 16.29 Mbit/s
95th percentile per-packet one-way delay: 73.761 ms
Loss rate: 6.90%
```

Run 1: Report of Verus — Data Link

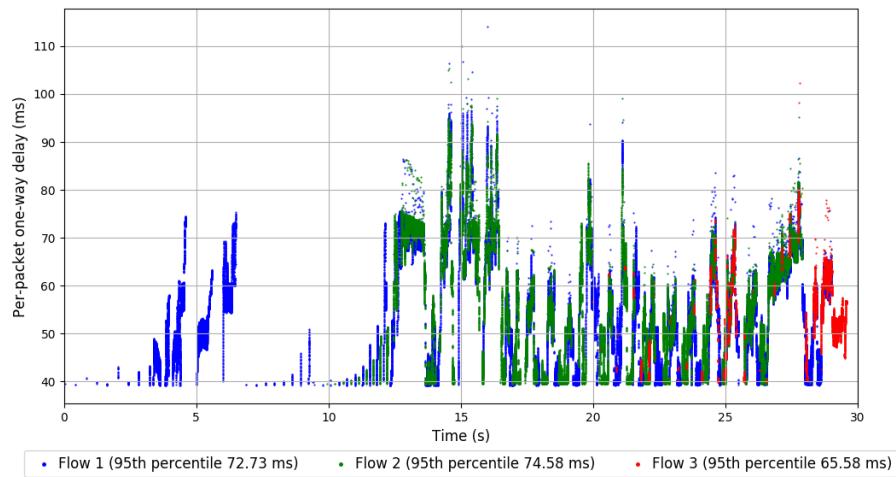
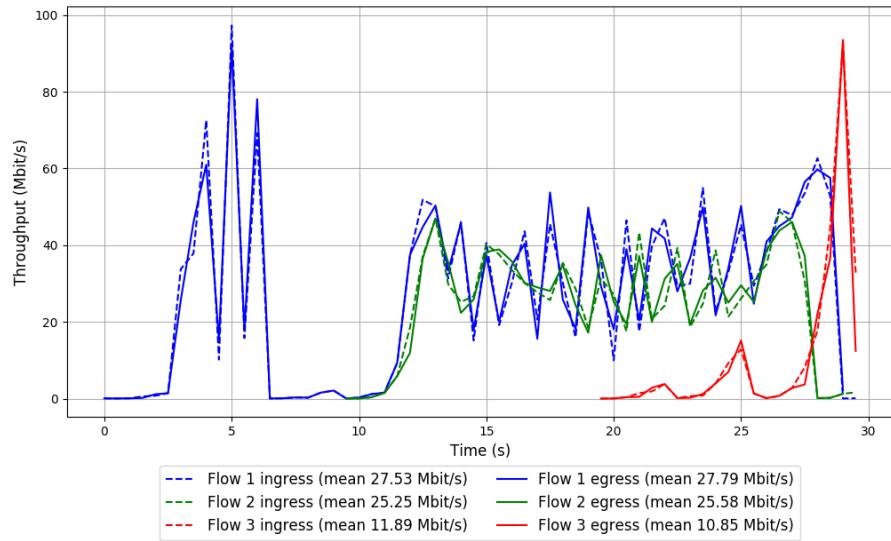


Run 2: Statistics of Verus

```
Start at: 2018-04-24 17:43:11
End at: 2018-04-24 17:43:41
Local clock offset: -3.333 ms
Remote clock offset: -2.457 ms

# Below is generated by plot.py at 2018-04-25 00:51:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 47.94 Mbit/s
95th percentile per-packet one-way delay: 73.276 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 27.79 Mbit/s
95th percentile per-packet one-way delay: 72.729 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 25.58 Mbit/s
95th percentile per-packet one-way delay: 74.583 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 10.85 Mbit/s
95th percentile per-packet one-way delay: 65.585 ms
Loss rate: 11.72%
```

Run 2: Report of Verus — Data Link

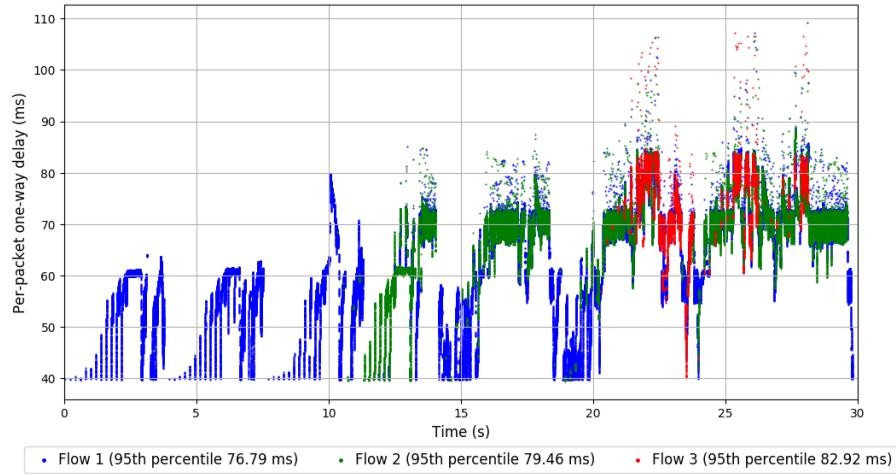
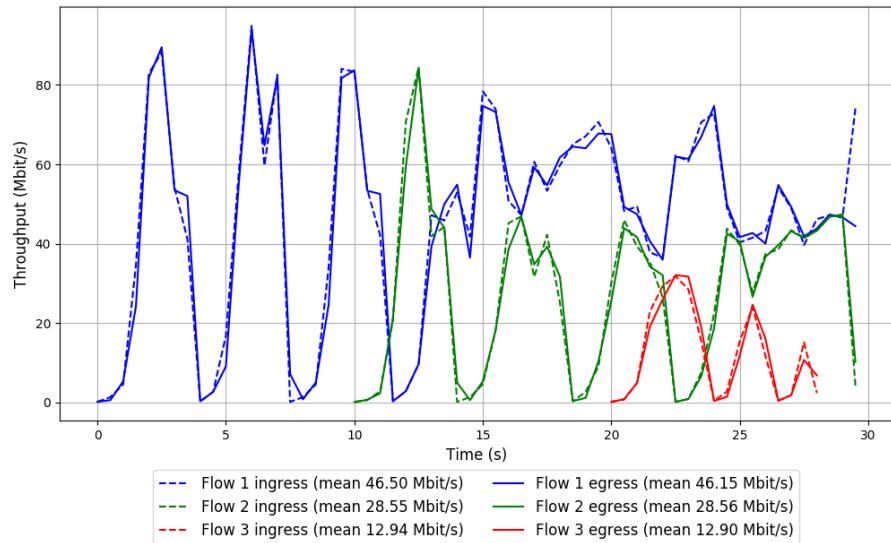


Run 3: Statistics of Verus

```
Start at: 2018-04-24 18:06:11
End at: 2018-04-24 18:06:41
Local clock offset: -6.358 ms
Remote clock offset: -1.809 ms

# Below is generated by plot.py at 2018-04-25 00:51:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 68.36 Mbit/s
95th percentile per-packet one-way delay: 78.914 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 46.15 Mbit/s
95th percentile per-packet one-way delay: 76.786 ms
Loss rate: 1.35%
-- Flow 2:
Average throughput: 28.56 Mbit/s
95th percentile per-packet one-way delay: 79.463 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 12.90 Mbit/s
95th percentile per-packet one-way delay: 82.916 ms
Loss rate: 0.05%
```

Run 3: Report of Verus — Data Link

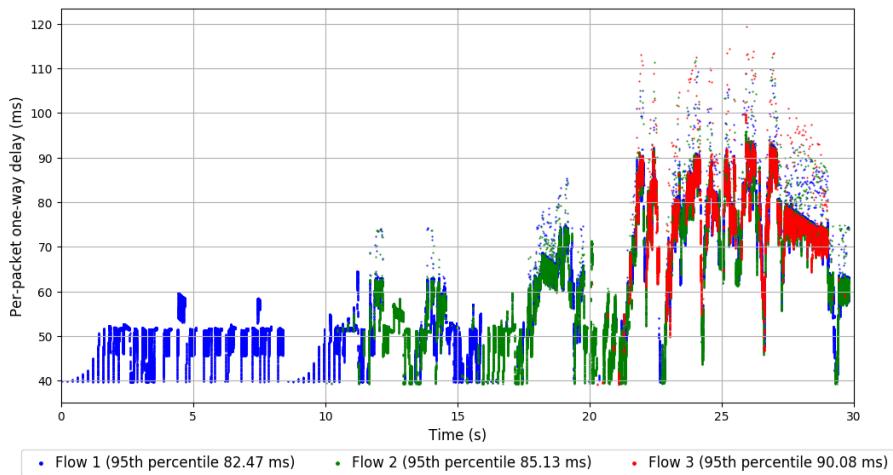
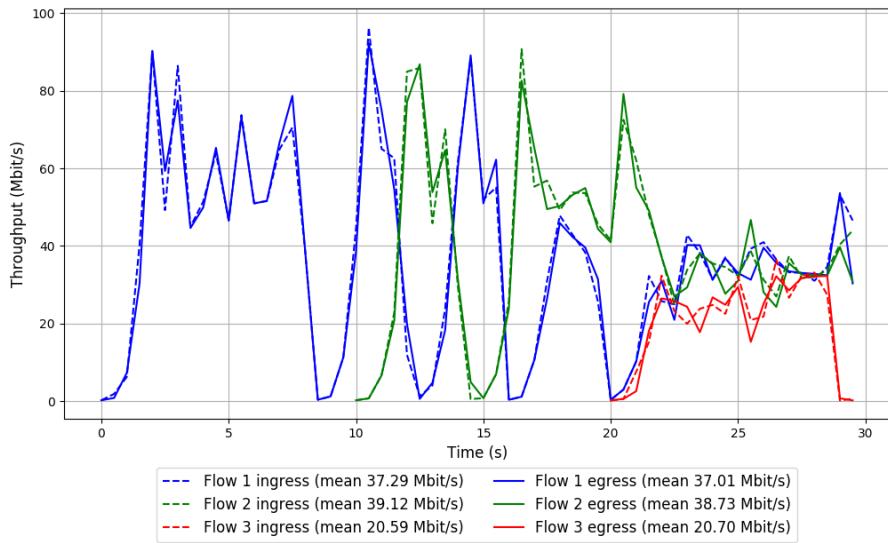


Run 4: Statistics of Verus

```
Start at: 2018-04-24 18:29:04
End at: 2018-04-24 18:29:34
Local clock offset: -0.897 ms
Remote clock offset: -1.449 ms

# Below is generated by plot.py at 2018-04-25 00:51:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 69.35 Mbit/s
95th percentile per-packet one-way delay: 85.517 ms
Loss rate: 1.67%
-- Flow 1:
Average throughput: 37.01 Mbit/s
95th percentile per-packet one-way delay: 82.472 ms
Loss rate: 1.44%
-- Flow 2:
Average throughput: 38.73 Mbit/s
95th percentile per-packet one-way delay: 85.126 ms
Loss rate: 2.00%
-- Flow 3:
Average throughput: 20.70 Mbit/s
95th percentile per-packet one-way delay: 90.079 ms
Loss rate: 1.66%
```

Run 4: Report of Verus — Data Link

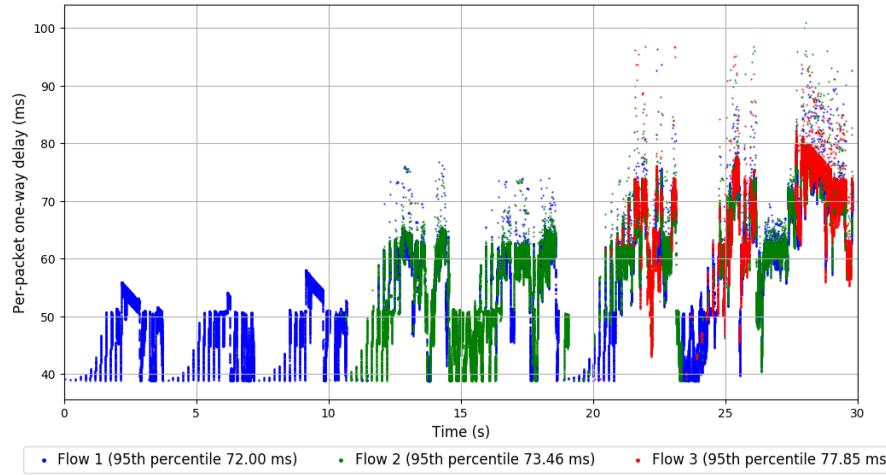
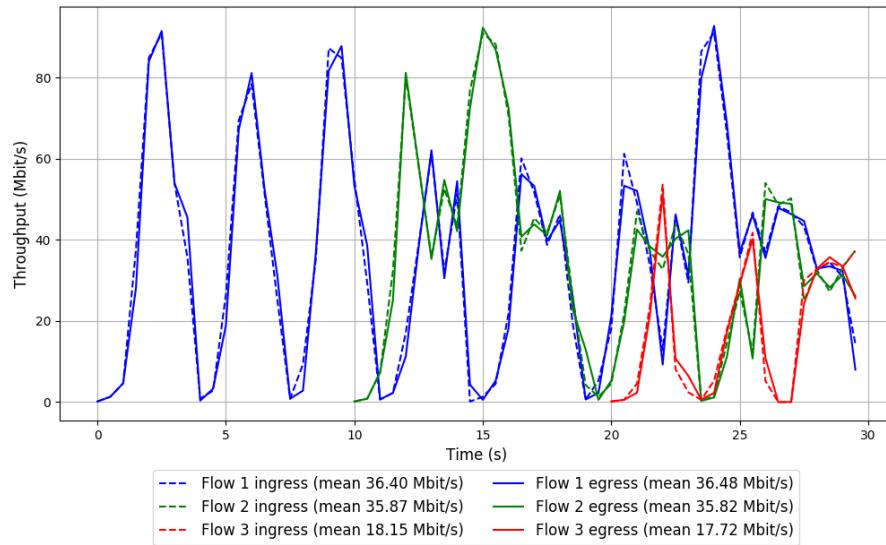


Run 5: Statistics of Verus

```
Start at: 2018-04-24 18:51:56
End at: 2018-04-24 18:52:26
Local clock offset: 1.454 ms
Remote clock offset: -1.507 ms

# Below is generated by plot.py at 2018-04-25 00:52:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.05 Mbit/s
95th percentile per-packet one-way delay: 74.027 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 36.48 Mbit/s
95th percentile per-packet one-way delay: 72.004 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 35.82 Mbit/s
95th percentile per-packet one-way delay: 73.456 ms
Loss rate: 1.14%
-- Flow 3:
Average throughput: 17.72 Mbit/s
95th percentile per-packet one-way delay: 77.846 ms
Loss rate: 4.43%
```

Run 5: Report of Verus — Data Link

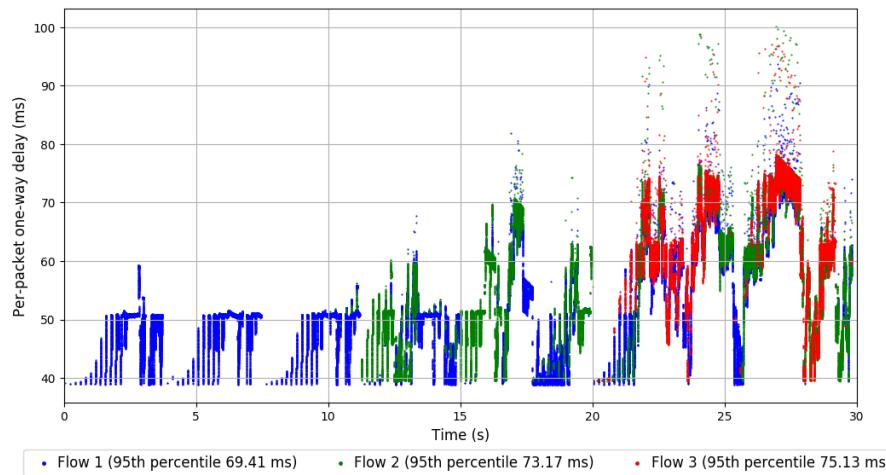
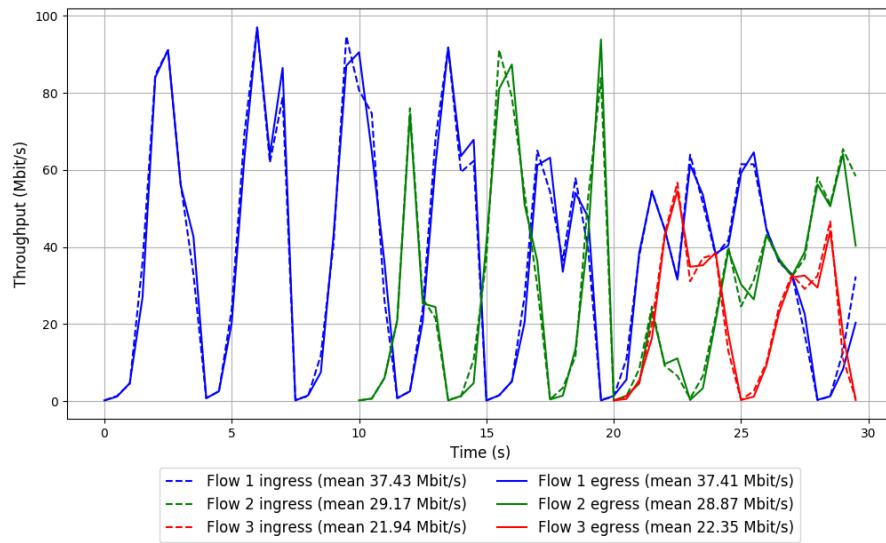


Run 6: Statistics of Verus

```
Start at: 2018-04-24 19:14:50
End at: 2018-04-24 19:15:20
Local clock offset: 3.32 ms
Remote clock offset: -1.463 ms

# Below is generated by plot.py at 2018-04-25 00:52:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 63.86 Mbit/s
95th percentile per-packet one-way delay: 72.885 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 37.41 Mbit/s
95th percentile per-packet one-way delay: 69.411 ms
Loss rate: 0.75%
-- Flow 2:
Average throughput: 28.87 Mbit/s
95th percentile per-packet one-way delay: 73.168 ms
Loss rate: 2.10%
-- Flow 3:
Average throughput: 22.35 Mbit/s
95th percentile per-packet one-way delay: 75.127 ms
Loss rate: 0.09%
```

Run 6: Report of Verus — Data Link

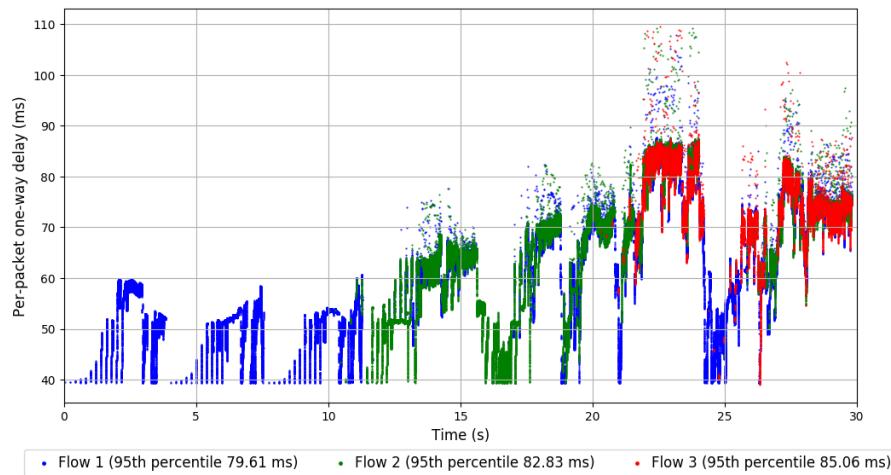
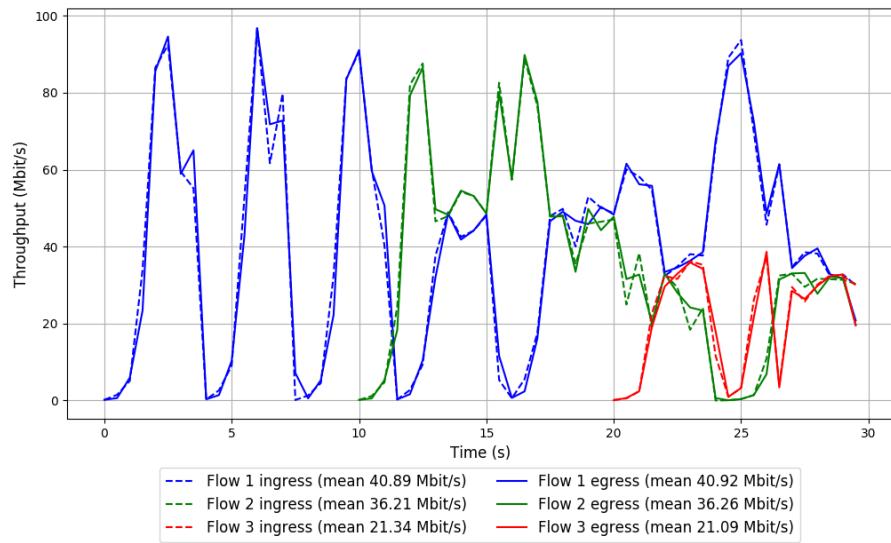


Run 7: Statistics of Verus

```
Start at: 2018-04-24 19:37:38
End at: 2018-04-24 19:38:08
Local clock offset: -2.356 ms
Remote clock offset: -0.912 ms

# Below is generated by plot.py at 2018-04-25 00:52:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 71.87 Mbit/s
95th percentile per-packet one-way delay: 82.503 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 40.92 Mbit/s
95th percentile per-packet one-way delay: 79.605 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 36.26 Mbit/s
95th percentile per-packet one-way delay: 82.828 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 21.09 Mbit/s
95th percentile per-packet one-way delay: 85.065 ms
Loss rate: 3.51%
```

Run 7: Report of Verus — Data Link

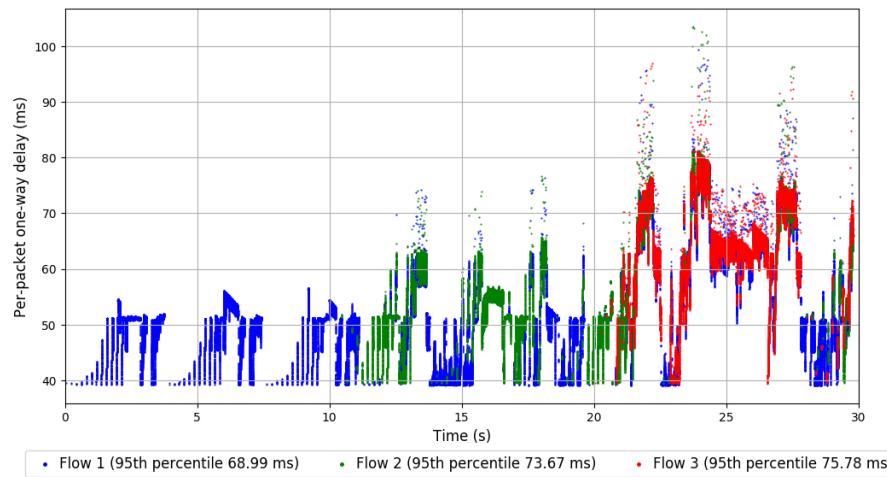
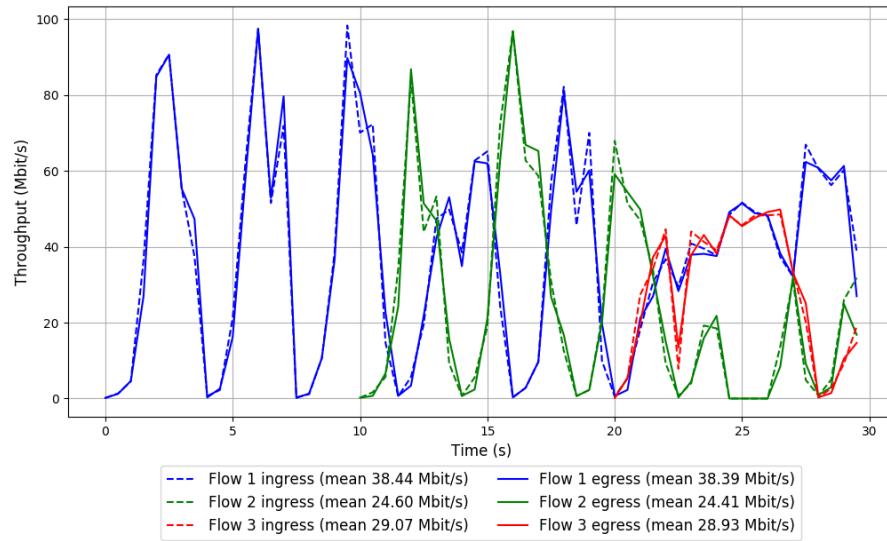


Run 8: Statistics of Verus

```
Start at: 2018-04-24 20:00:32
End at: 2018-04-24 20:01:02
Local clock offset: 1.782 ms
Remote clock offset: -0.816 ms

# Below is generated by plot.py at 2018-04-25 00:52:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 64.04 Mbit/s
95th percentile per-packet one-way delay: 72.960 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 38.39 Mbit/s
95th percentile per-packet one-way delay: 68.994 ms
Loss rate: 0.81%
-- Flow 2:
Average throughput: 24.41 Mbit/s
95th percentile per-packet one-way delay: 73.668 ms
Loss rate: 1.84%
-- Flow 3:
Average throughput: 28.93 Mbit/s
95th percentile per-packet one-way delay: 75.782 ms
Loss rate: 0.77%
```

Run 8: Report of Verus — Data Link

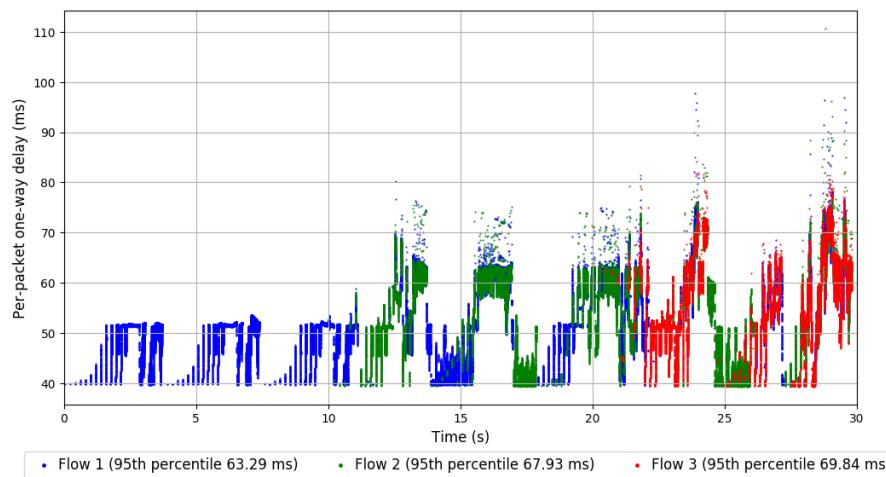
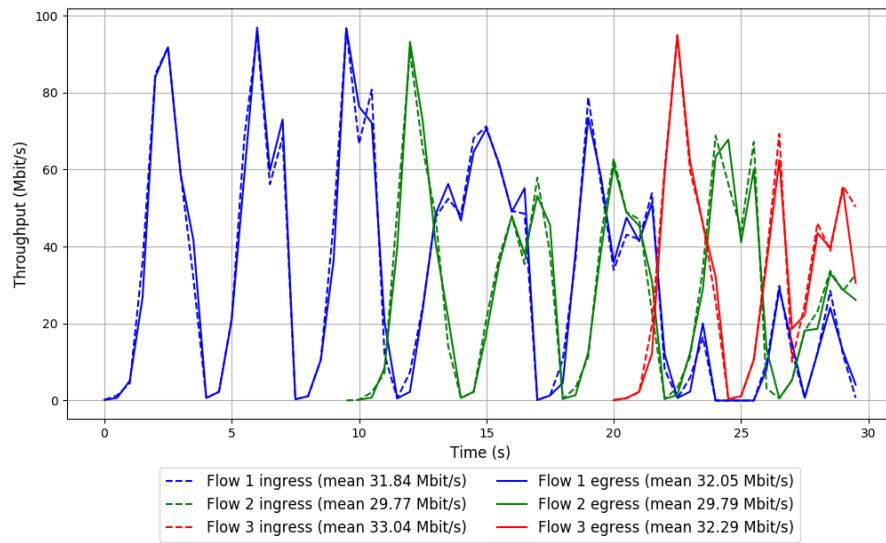


Run 9: Statistics of Verus

```
Start at: 2018-04-24 20:23:41
End at: 2018-04-24 20:24:11
Local clock offset: 6.071 ms
Remote clock offset: -0.648 ms

# Below is generated by plot.py at 2018-04-25 00:52:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 62.38 Mbit/s
95th percentile per-packet one-way delay: 65.808 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 32.05 Mbit/s
95th percentile per-packet one-way delay: 63.287 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 29.79 Mbit/s
95th percentile per-packet one-way delay: 67.933 ms
Loss rate: 0.97%
-- Flow 3:
Average throughput: 32.29 Mbit/s
95th percentile per-packet one-way delay: 69.836 ms
Loss rate: 3.84%
```

Run 9: Report of Verus — Data Link

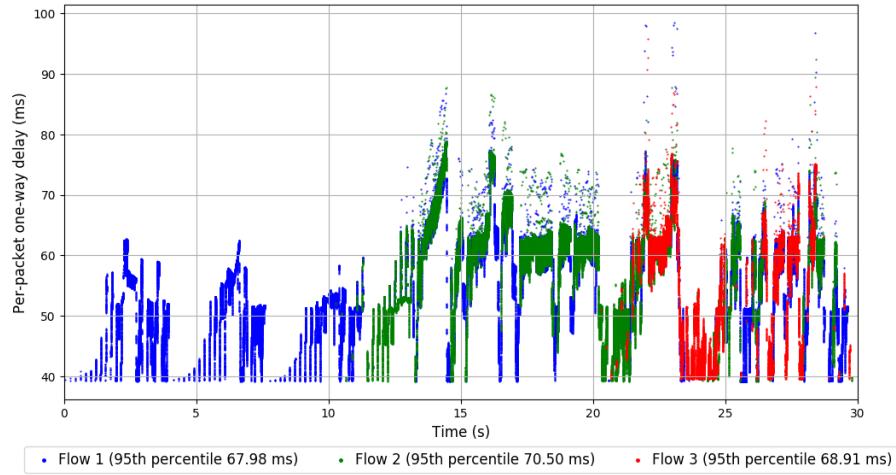
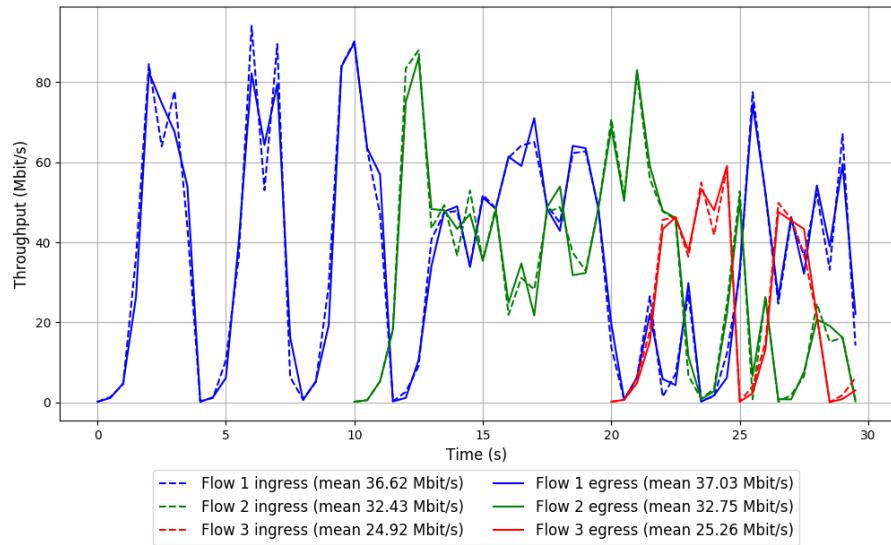


Run 10: Statistics of Verus

```
Start at: 2018-04-24 20:46:31
End at: 2018-04-24 20:47:01
Local clock offset: 3.889 ms
Remote clock offset: -0.59 ms

# Below is generated by plot.py at 2018-04-25 00:52:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.70 Mbit/s
95th percentile per-packet one-way delay: 69.257 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 37.03 Mbit/s
95th percentile per-packet one-way delay: 67.983 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 32.75 Mbit/s
95th percentile per-packet one-way delay: 70.501 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 25.26 Mbit/s
95th percentile per-packet one-way delay: 68.912 ms
Loss rate: 0.83%
```

Run 10: Report of Verus — Data Link

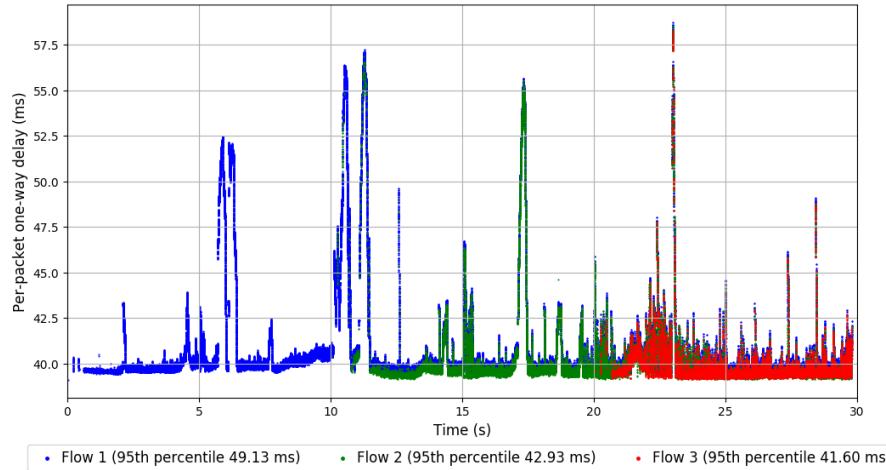
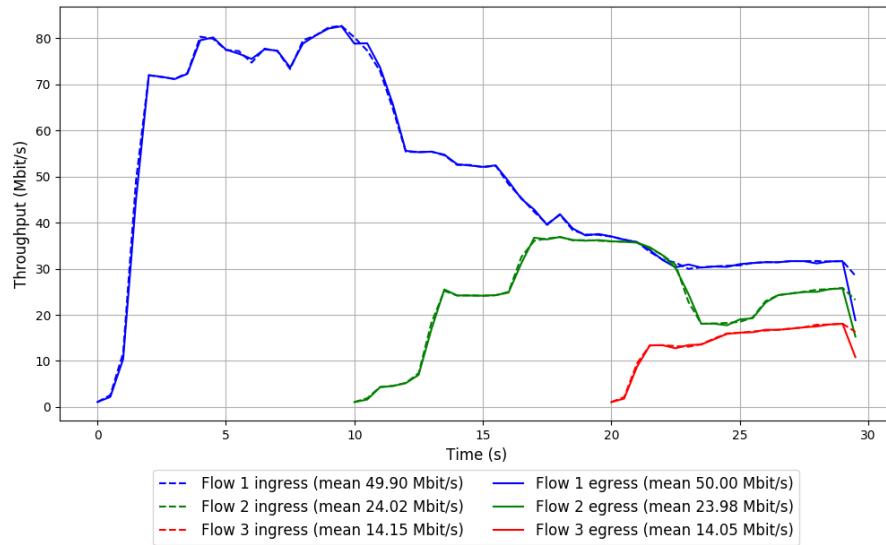


Run 1: Statistics of Copa

```
Start at: 2018-04-24 17:18:48
End at: 2018-04-24 17:19:18
Local clock offset: -1.138 ms
Remote clock offset: -6.001 ms

# Below is generated by plot.py at 2018-04-25 00:53:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 70.51 Mbit/s
95th percentile per-packet one-way delay: 47.258 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 50.00 Mbit/s
95th percentile per-packet one-way delay: 49.132 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 23.98 Mbit/s
95th percentile per-packet one-way delay: 42.932 ms
Loss rate: 1.13%
-- Flow 3:
Average throughput: 14.05 Mbit/s
95th percentile per-packet one-way delay: 41.596 ms
Loss rate: 2.62%
```

Run 1: Report of Copa — Data Link

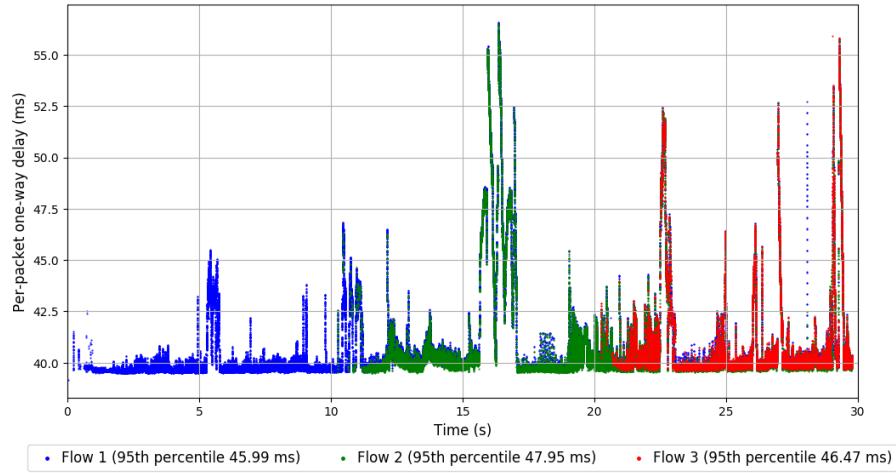
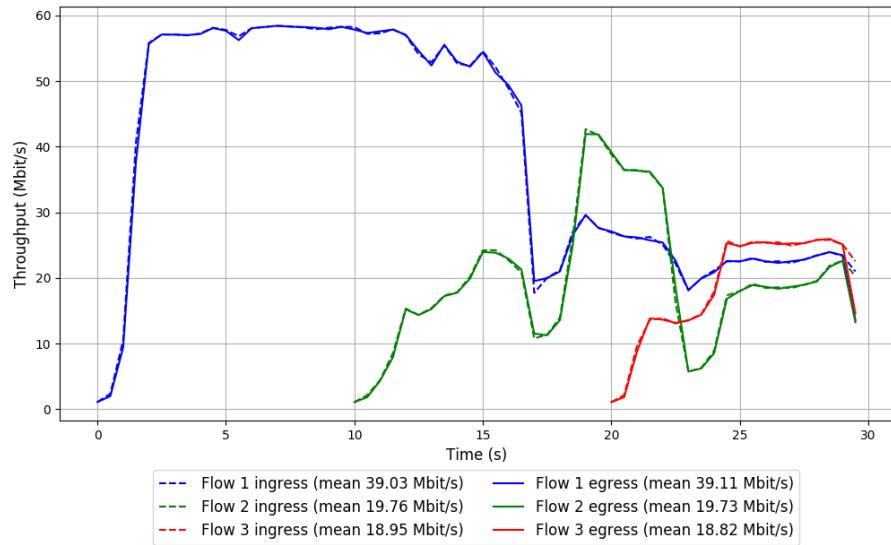


Run 2: Statistics of Copa

```
Start at: 2018-04-24 17:41:41
End at: 2018-04-24 17:42:11
Local clock offset: -2.893 ms
Remote clock offset: -2.606 ms

# Below is generated by plot.py at 2018-04-25 00:53:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 58.34 Mbit/s
95th percentile per-packet one-way delay: 46.700 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 39.11 Mbit/s
95th percentile per-packet one-way delay: 45.990 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 19.73 Mbit/s
95th percentile per-packet one-way delay: 47.946 ms
Loss rate: 1.14%
-- Flow 3:
Average throughput: 18.82 Mbit/s
95th percentile per-packet one-way delay: 46.470 ms
Loss rate: 2.63%
```

Run 2: Report of Copa — Data Link

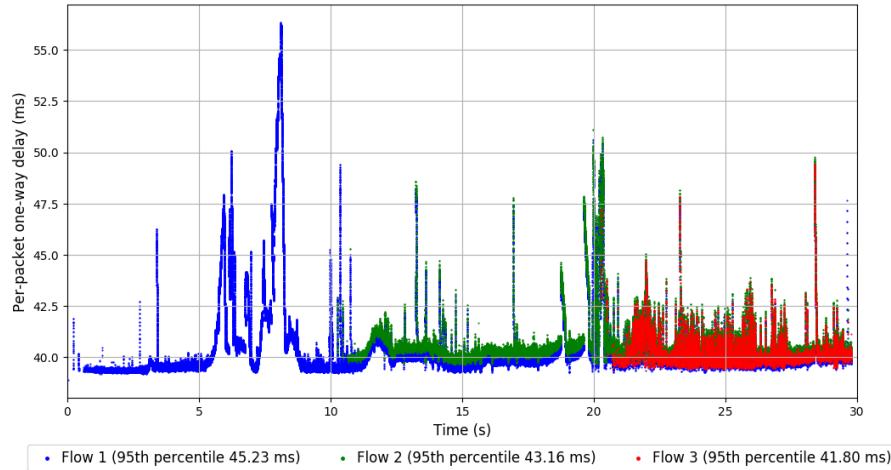
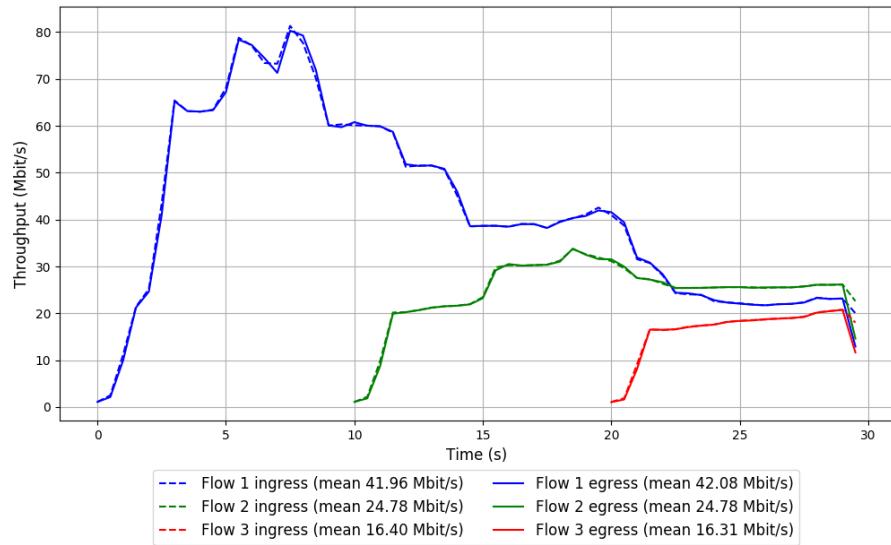


Run 3: Statistics of Copa

```
Start at: 2018-04-24 18:04:47
End at: 2018-04-24 18:05:17
Local clock offset: -6.306 ms
Remote clock offset: -2.046 ms

# Below is generated by plot.py at 2018-04-25 00:53:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 63.82 Mbit/s
95th percentile per-packet one-way delay: 44.407 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 42.08 Mbit/s
95th percentile per-packet one-way delay: 45.227 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 24.78 Mbit/s
95th percentile per-packet one-way delay: 43.158 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 16.31 Mbit/s
95th percentile per-packet one-way delay: 41.799 ms
Loss rate: 2.49%
```

Run 3: Report of Copa — Data Link

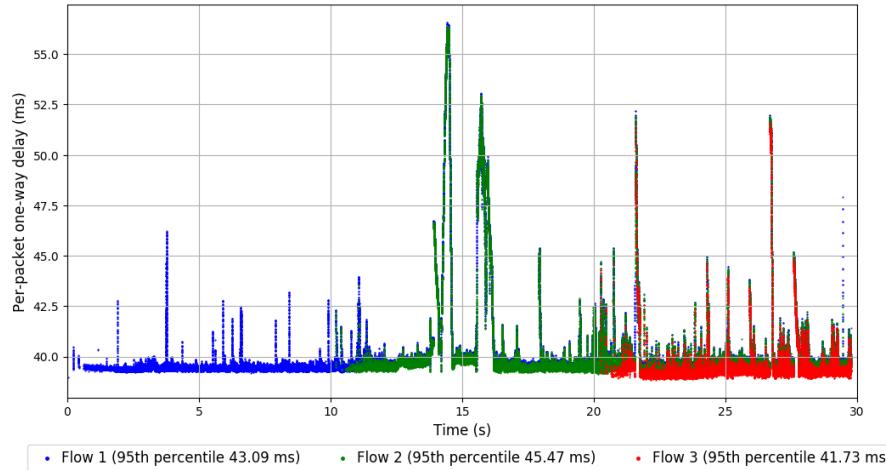
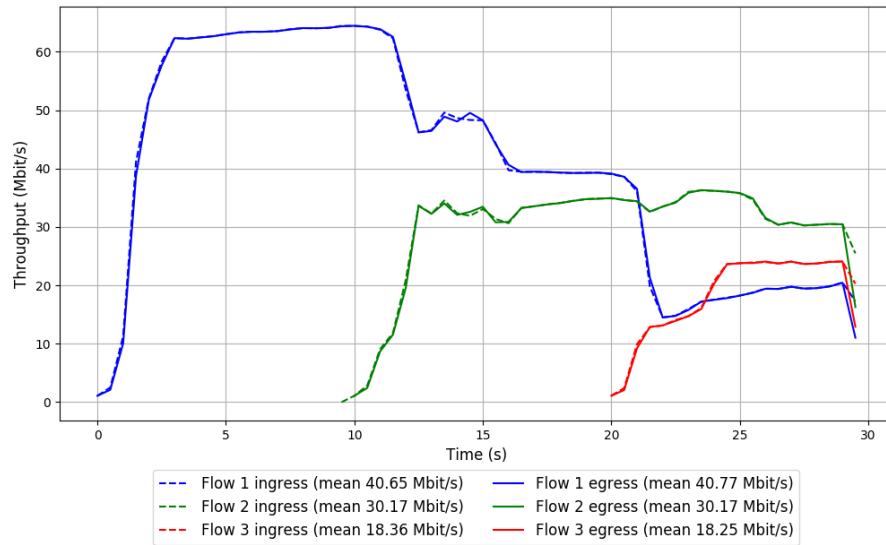


Run 4: Statistics of Copa

```
Start at: 2018-04-24 18:27:40
End at: 2018-04-24 18:28:10
Local clock offset: -1.02 ms
Remote clock offset: -1.379 ms

# Below is generated by plot.py at 2018-04-25 00:53:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.78 Mbit/s
95th percentile per-packet one-way delay: 43.655 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 40.77 Mbit/s
95th percentile per-packet one-way delay: 43.085 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 30.17 Mbit/s
95th percentile per-packet one-way delay: 45.466 ms
Loss rate: 0.97%
-- Flow 3:
Average throughput: 18.25 Mbit/s
95th percentile per-packet one-way delay: 41.727 ms
Loss rate: 2.54%
```

Run 4: Report of Copa — Data Link

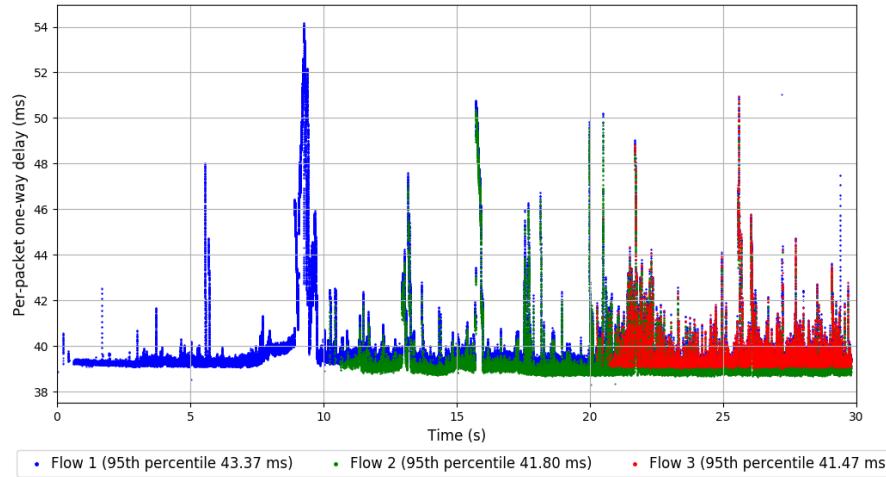
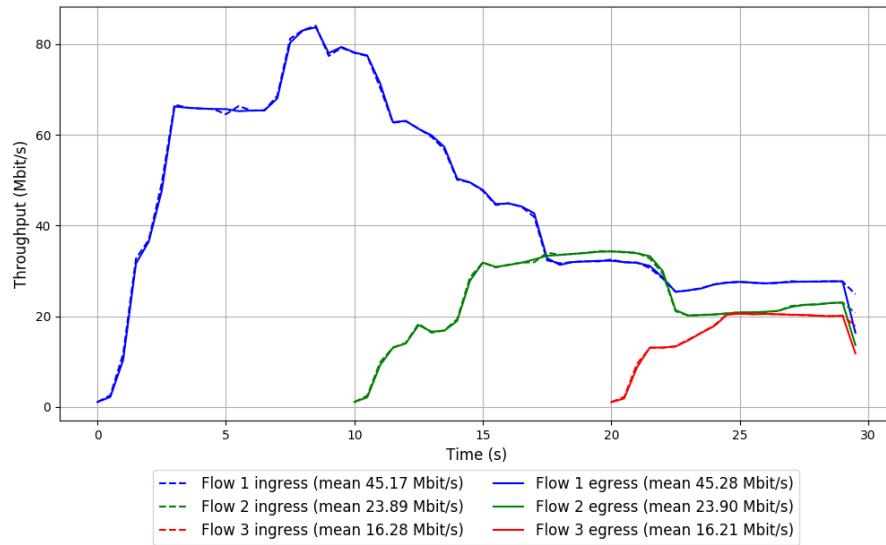


Run 5: Statistics of Copa

```
Start at: 2018-04-24 18:50:32
End at: 2018-04-24 18:51:02
Local clock offset: 1.268 ms
Remote clock offset: -1.453 ms

# Below is generated by plot.py at 2018-04-25 00:53:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.44 Mbit/s
95th percentile per-packet one-way delay: 42.721 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 45.28 Mbit/s
95th percentile per-packet one-way delay: 43.367 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 23.90 Mbit/s
95th percentile per-packet one-way delay: 41.800 ms
Loss rate: 0.93%
-- Flow 3:
Average throughput: 16.21 Mbit/s
95th percentile per-packet one-way delay: 41.472 ms
Loss rate: 2.37%
```

Run 5: Report of Copa — Data Link

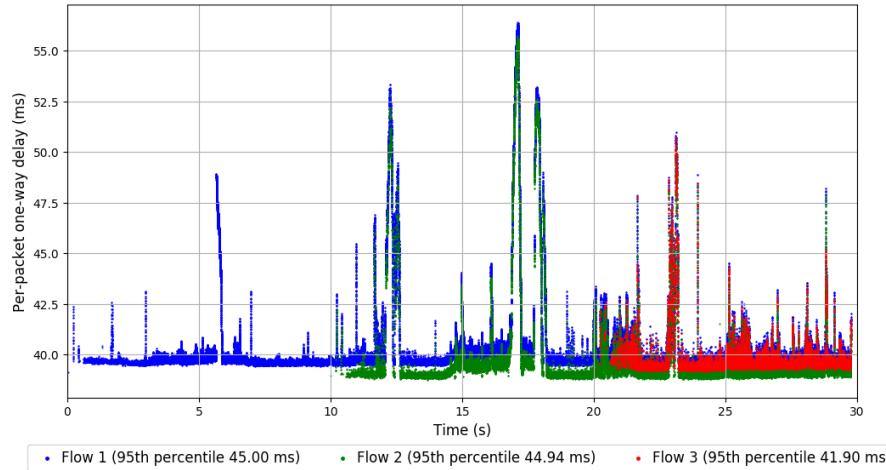
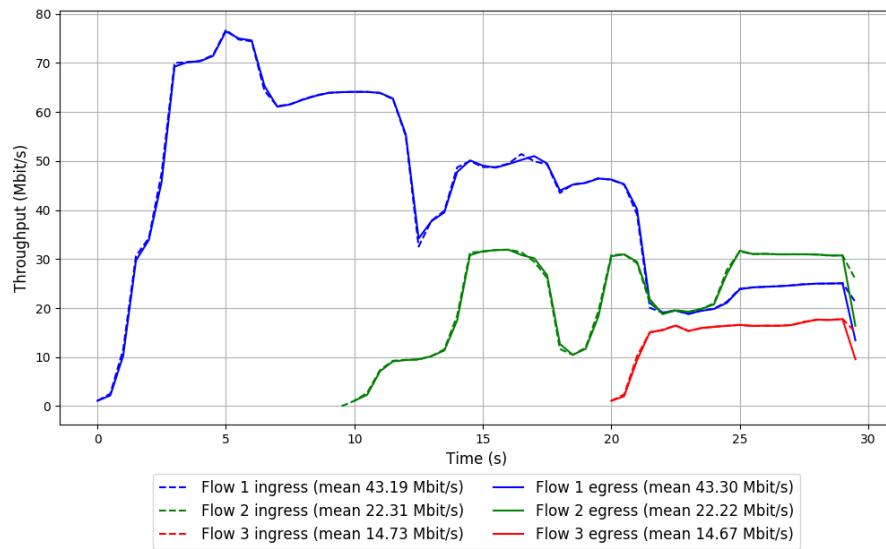


Run 6: Statistics of Copa

```
Start at: 2018-04-24 19:13:27
End at: 2018-04-24 19:13:57
Local clock offset: 3.278 ms
Remote clock offset: -1.544 ms

# Below is generated by plot.py at 2018-04-25 00:54:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 62.86 Mbit/s
95th percentile per-packet one-way delay: 44.661 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 43.30 Mbit/s
95th percentile per-packet one-way delay: 44.999 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 22.22 Mbit/s
95th percentile per-packet one-way delay: 44.938 ms
Loss rate: 1.34%
-- Flow 3:
Average throughput: 14.67 Mbit/s
95th percentile per-packet one-way delay: 41.904 ms
Loss rate: 2.39%
```

Run 6: Report of Copa — Data Link

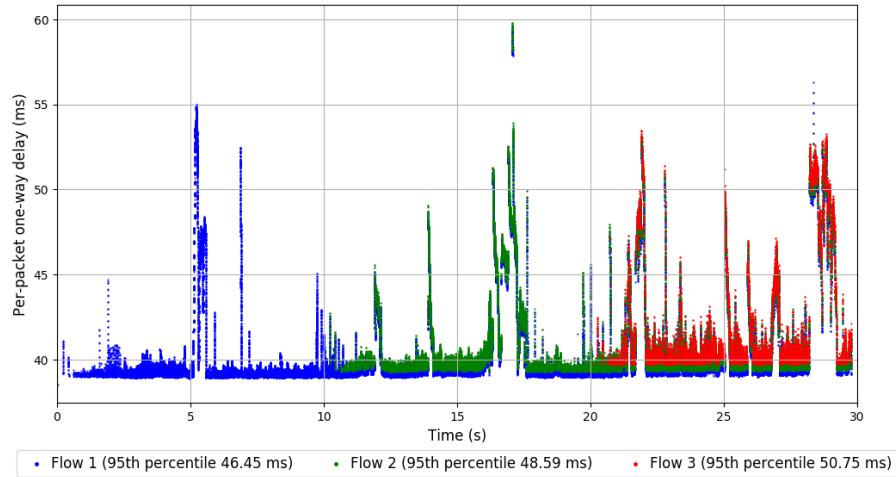
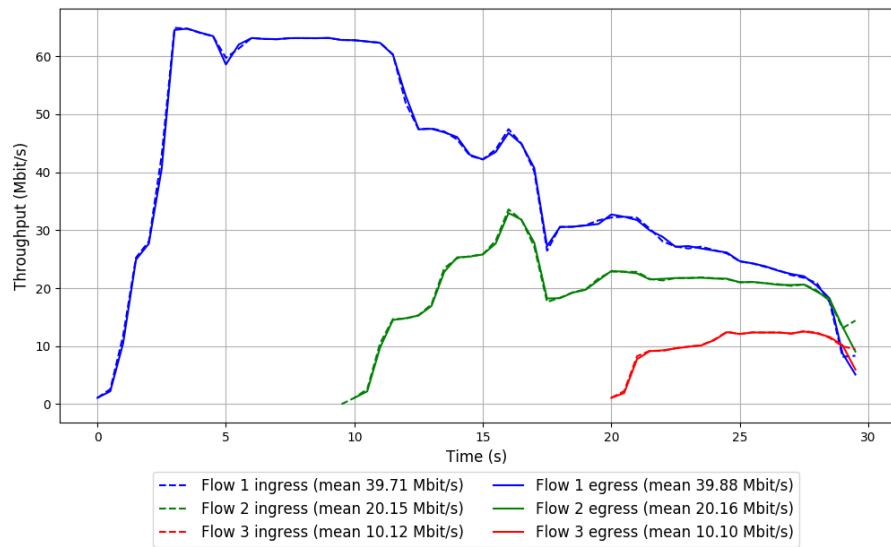


Run 7: Statistics of Copa

```
Start at: 2018-04-24 19:36:16
End at: 2018-04-24 19:36:46
Local clock offset: -2.12 ms
Remote clock offset: -0.907 ms

# Below is generated by plot.py at 2018-04-25 00:54:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 56.55 Mbit/s
95th percentile per-packet one-way delay: 47.529 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 39.88 Mbit/s
95th percentile per-packet one-way delay: 46.454 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 20.16 Mbit/s
95th percentile per-packet one-way delay: 48.592 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 10.10 Mbit/s
95th percentile per-packet one-way delay: 50.747 ms
Loss rate: 2.21%
```

Run 7: Report of Copa — Data Link

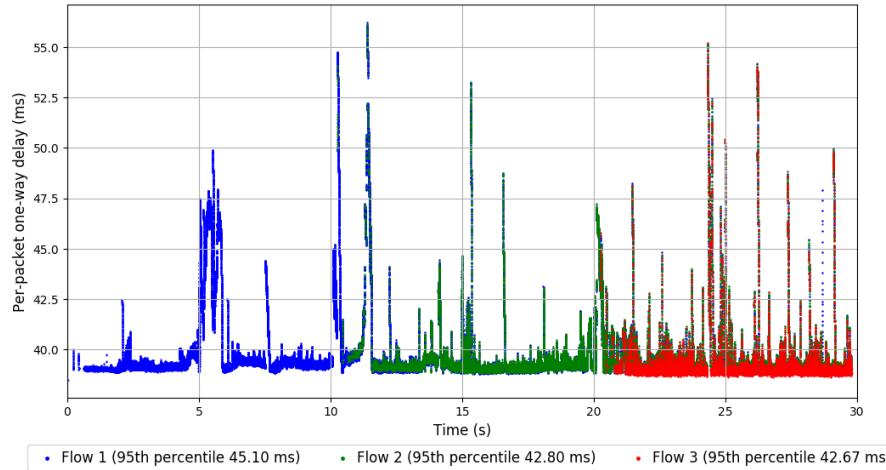
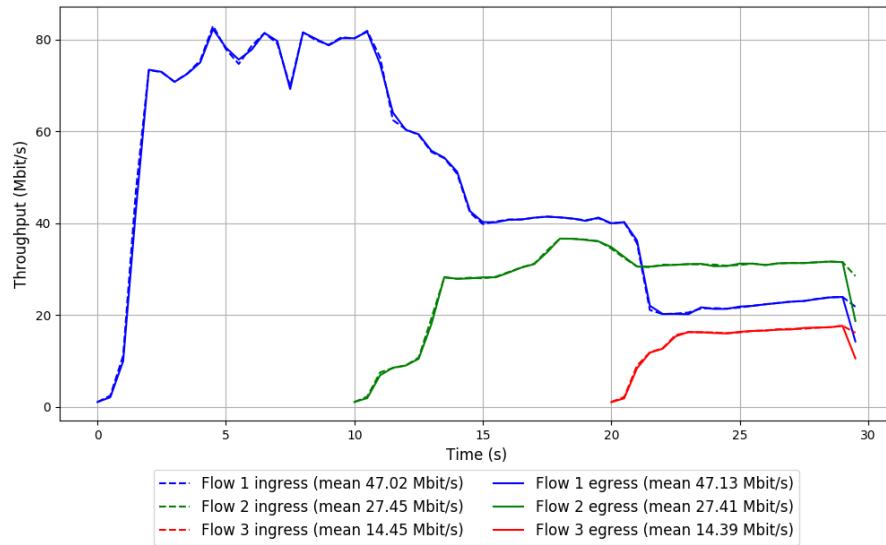


Run 8: Statistics of Copa

```
Start at: 2018-04-24 19:59:08
End at: 2018-04-24 19:59:38
Local clock offset: 1.057 ms
Remote clock offset: -0.739 ms

# Below is generated by plot.py at 2018-04-25 00:54:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 70.02 Mbit/s
95th percentile per-packet one-way delay: 44.323 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 47.13 Mbit/s
95th percentile per-packet one-way delay: 45.105 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 27.41 Mbit/s
95th percentile per-packet one-way delay: 42.801 ms
Loss rate: 1.14%
-- Flow 3:
Average throughput: 14.39 Mbit/s
95th percentile per-packet one-way delay: 42.675 ms
Loss rate: 2.43%
```

Run 8: Report of Copa — Data Link

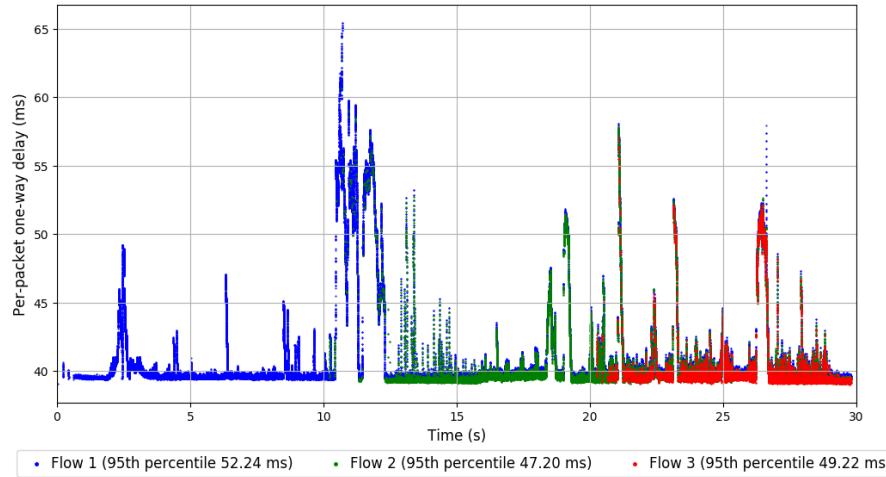
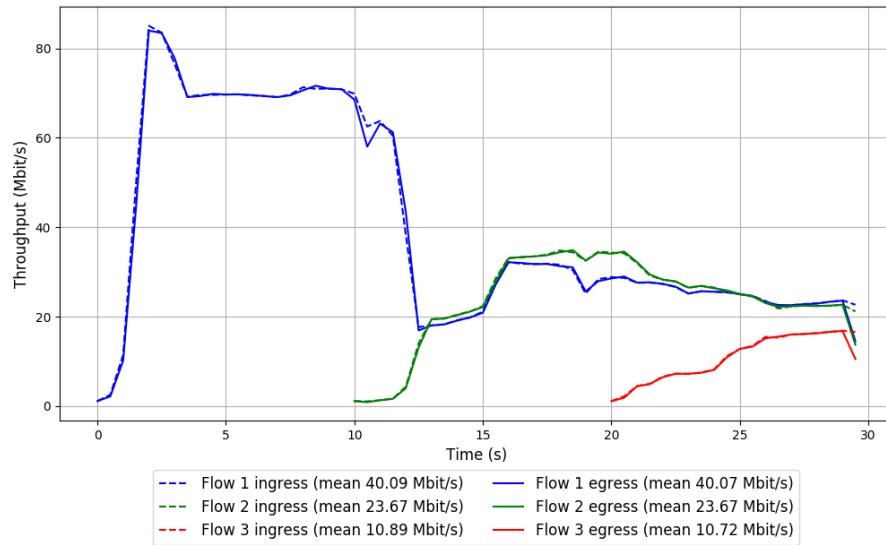


Run 9: Statistics of Copa

```
Start at: 2018-04-24 20:22:17
End at: 2018-04-24 20:22:47
Local clock offset: 5.642 ms
Remote clock offset: -0.708 ms

# Below is generated by plot.py at 2018-04-25 00:55:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 59.27 Mbit/s
95th percentile per-packet one-way delay: 50.636 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 40.07 Mbit/s
95th percentile per-packet one-way delay: 52.245 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 23.67 Mbit/s
95th percentile per-packet one-way delay: 47.202 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 10.72 Mbit/s
95th percentile per-packet one-way delay: 49.217 ms
Loss rate: 3.44%
```

Run 9: Report of Copa — Data Link

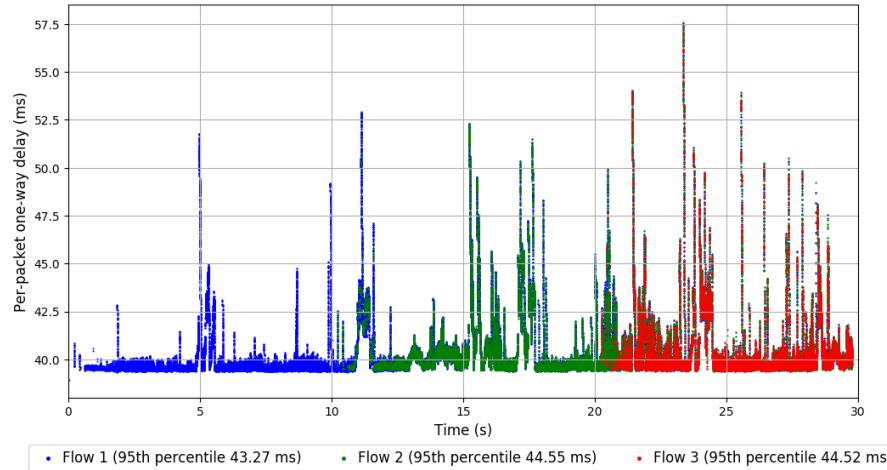
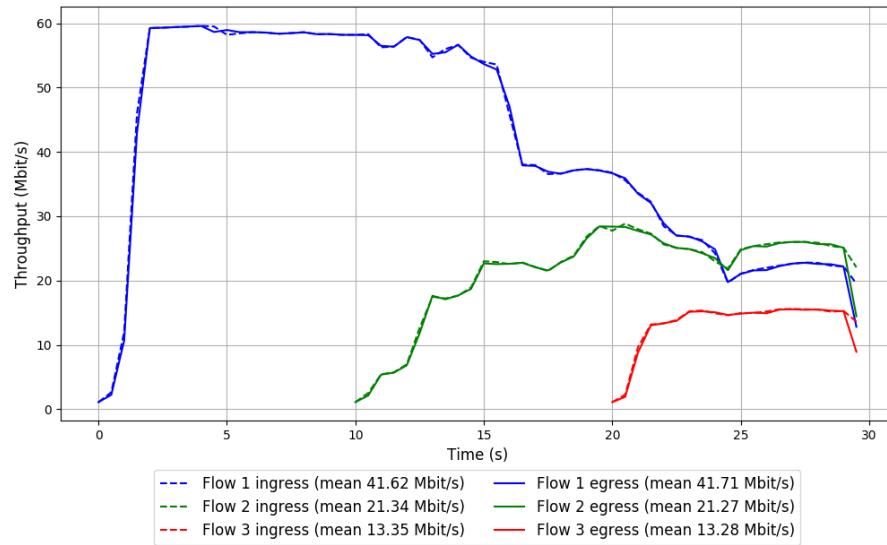


Run 10: Statistics of Copa

```
Start at: 2018-04-24 20:45:08
End at: 2018-04-24 20:45:38
Local clock offset: 4.093 ms
Remote clock offset: -0.656 ms

# Below is generated by plot.py at 2018-04-25 00:55:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 60.17 Mbit/s
95th percentile per-packet one-way delay: 43.613 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 41.71 Mbit/s
95th percentile per-packet one-way delay: 43.271 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 21.27 Mbit/s
95th percentile per-packet one-way delay: 44.555 ms
Loss rate: 1.29%
-- Flow 3:
Average throughput: 13.28 Mbit/s
95th percentile per-packet one-way delay: 44.515 ms
Loss rate: 2.43%
```

Run 10: Report of Copa — Data Link

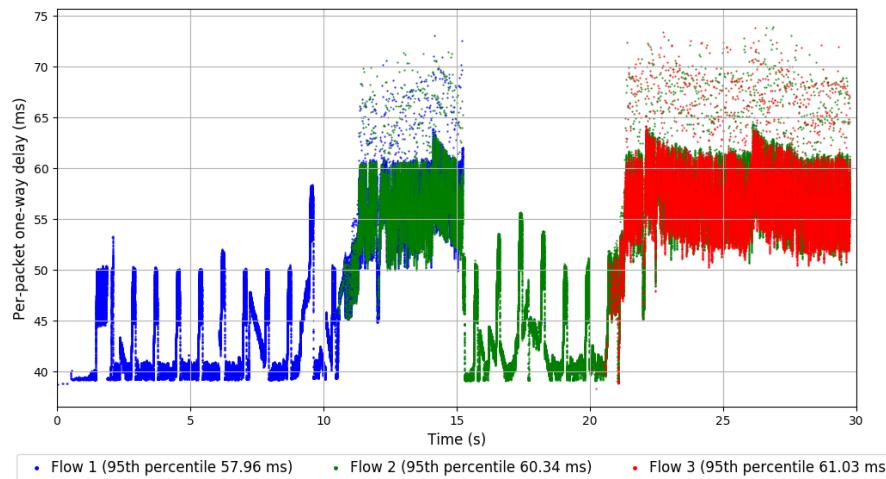
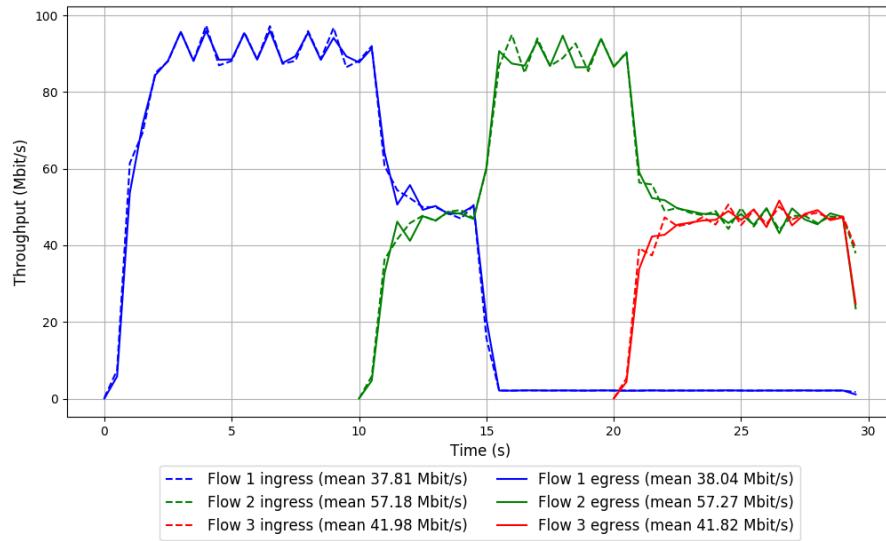


```
Run 1: Statistics of FillP

Start at: 2018-04-24 17:01:28
End at: 2018-04-24 17:01:58
Local clock offset: -5.317 ms
Remote clock offset: -9.276 ms

# Below is generated by plot.py at 2018-04-25 00:55:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.64 Mbit/s
95th percentile per-packet one-way delay: 60.009 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 38.04 Mbit/s
95th percentile per-packet one-way delay: 57.963 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 57.27 Mbit/s
95th percentile per-packet one-way delay: 60.337 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 41.82 Mbit/s
95th percentile per-packet one-way delay: 61.026 ms
Loss rate: 2.41%
```

Run 1: Report of FillP — Data Link

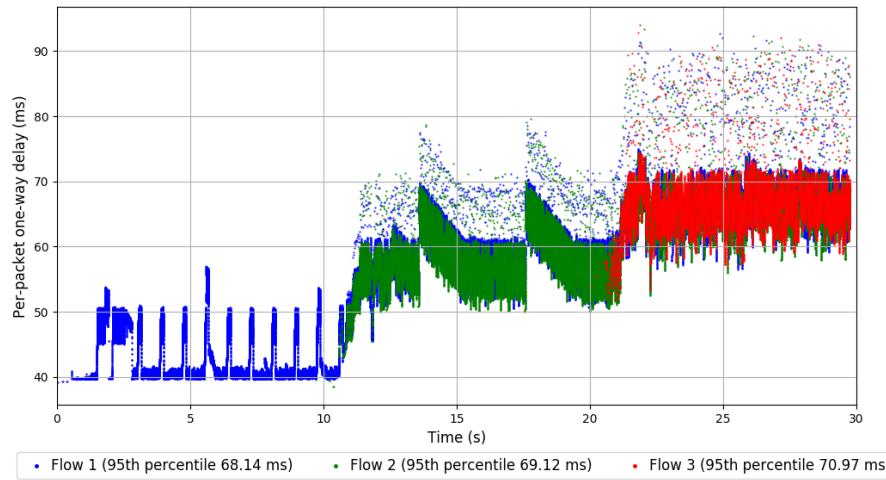
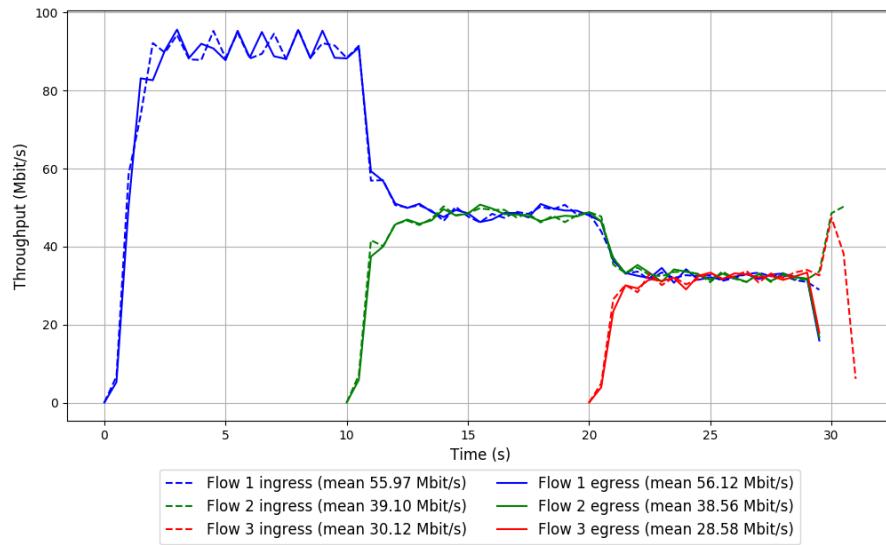


Run 2: Statistics of FillP

```
Start at: 2018-04-24 17:24:20
End at: 2018-04-24 17:24:50
Local clock offset: -0.825 ms
Remote clock offset: -6.499 ms

# Below is generated by plot.py at 2018-04-25 00:55:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.96 Mbit/s
95th percentile per-packet one-way delay: 69.156 ms
Loss rate: 4.38%
-- Flow 1:
Average throughput: 56.12 Mbit/s
95th percentile per-packet one-way delay: 68.142 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 38.56 Mbit/s
95th percentile per-packet one-way delay: 69.124 ms
Loss rate: 7.28%
-- Flow 3:
Average throughput: 28.58 Mbit/s
95th percentile per-packet one-way delay: 70.973 ms
Loss rate: 16.85%
```

Run 2: Report of FillP — Data Link

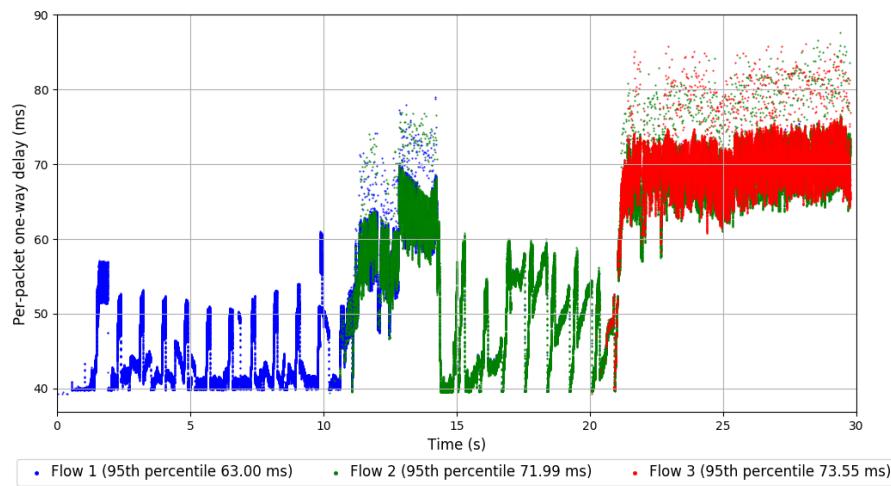
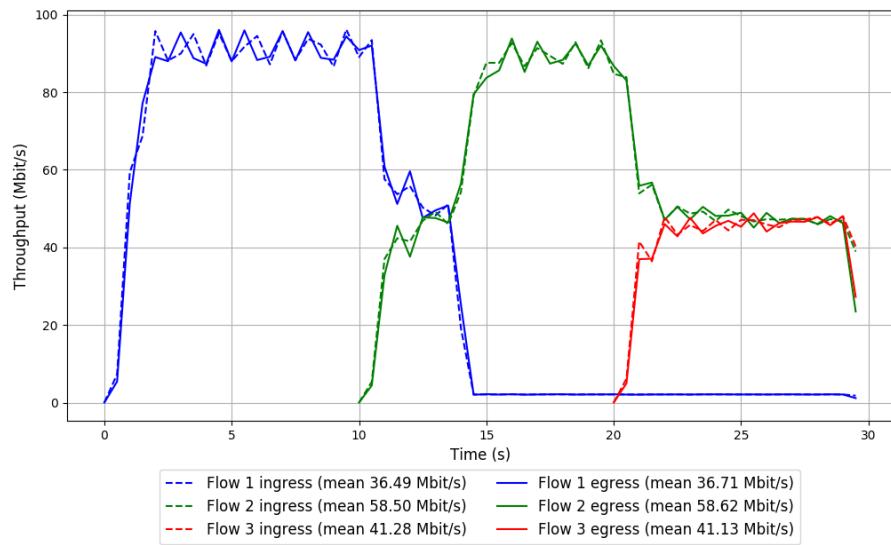


Run 3: Statistics of FillP

```
Start at: 2018-04-24 17:47:25
End at: 2018-04-24 17:47:55
Local clock offset: -4.127 ms
Remote clock offset: -2.207 ms

# Below is generated by plot.py at 2018-04-25 00:55:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.95 Mbit/s
95th percentile per-packet one-way delay: 71.835 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 36.71 Mbit/s
95th percentile per-packet one-way delay: 62.998 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 58.62 Mbit/s
95th percentile per-packet one-way delay: 71.988 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 41.13 Mbit/s
95th percentile per-packet one-way delay: 73.552 ms
Loss rate: 2.48%
```

Run 3: Report of FillP — Data Link

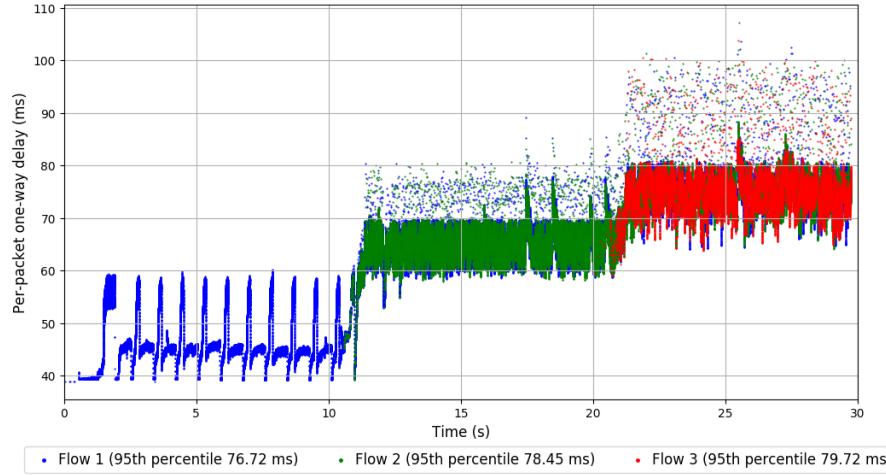
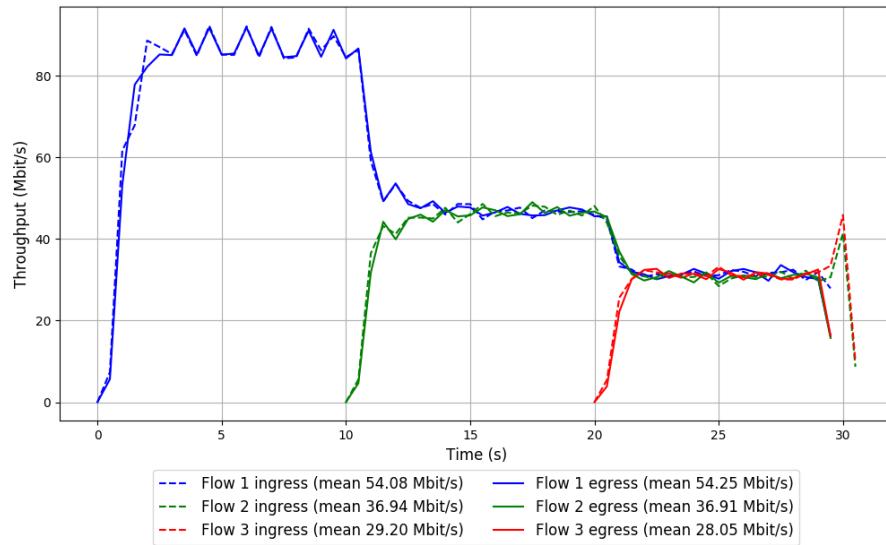


Run 4: Statistics of FillP

```
Start at: 2018-04-24 18:10:18
End at: 2018-04-24 18:10:48
Local clock offset: -5.679 ms
Remote clock offset: -1.391 ms

# Below is generated by plot.py at 2018-04-25 00:55:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.82 Mbit/s
95th percentile per-packet one-way delay: 78.040 ms
Loss rate: 3.04%
-- Flow 1:
Average throughput: 54.25 Mbit/s
95th percentile per-packet one-way delay: 76.717 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 36.91 Mbit/s
95th percentile per-packet one-way delay: 78.452 ms
Loss rate: 4.57%
-- Flow 3:
Average throughput: 28.05 Mbit/s
95th percentile per-packet one-way delay: 79.722 ms
Loss rate: 12.44%
```

Run 4: Report of FillP — Data Link

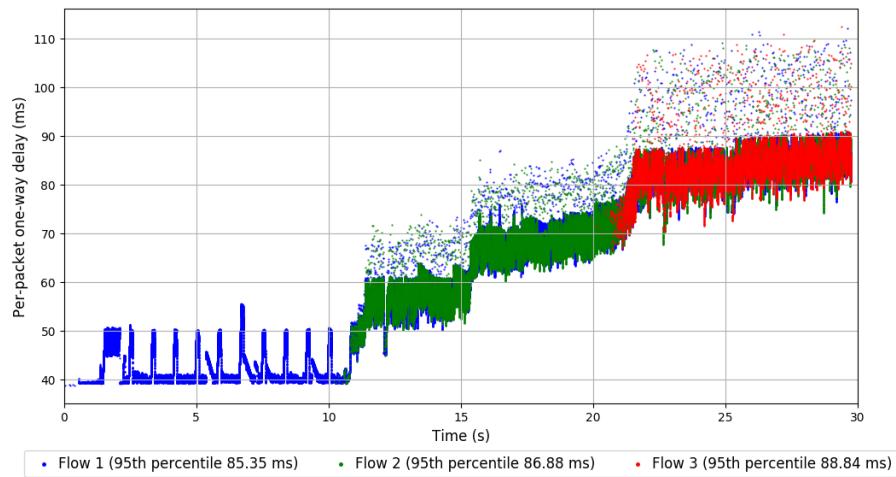
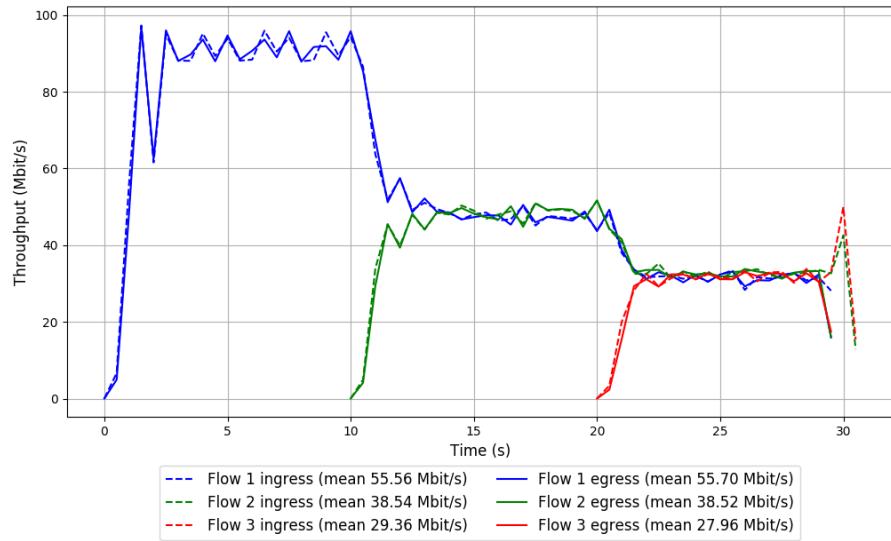


Run 5: Statistics of FillP

```
Start at: 2018-04-24 18:33:12
End at: 2018-04-24 18:33:42
Local clock offset: -0.716 ms
Remote clock offset: -1.468 ms

# Below is generated by plot.py at 2018-04-25 00:55:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.30 Mbit/s
95th percentile per-packet one-way delay: 86.661 ms
Loss rate: 3.28%
-- Flow 1:
Average throughput: 55.70 Mbit/s
95th percentile per-packet one-way delay: 85.349 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 38.52 Mbit/s
95th percentile per-packet one-way delay: 86.876 ms
Loss rate: 4.87%
-- Flow 3:
Average throughput: 27.96 Mbit/s
95th percentile per-packet one-way delay: 88.845 ms
Loss rate: 13.86%
```

Run 5: Report of FillP — Data Link

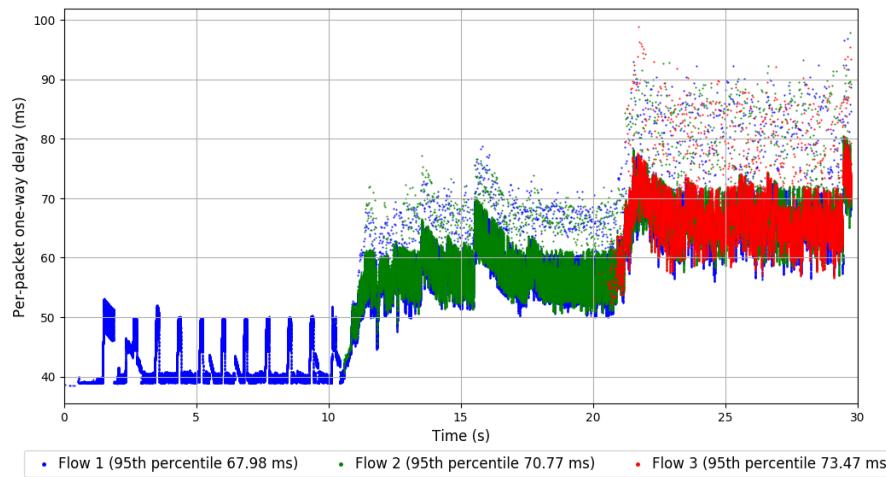
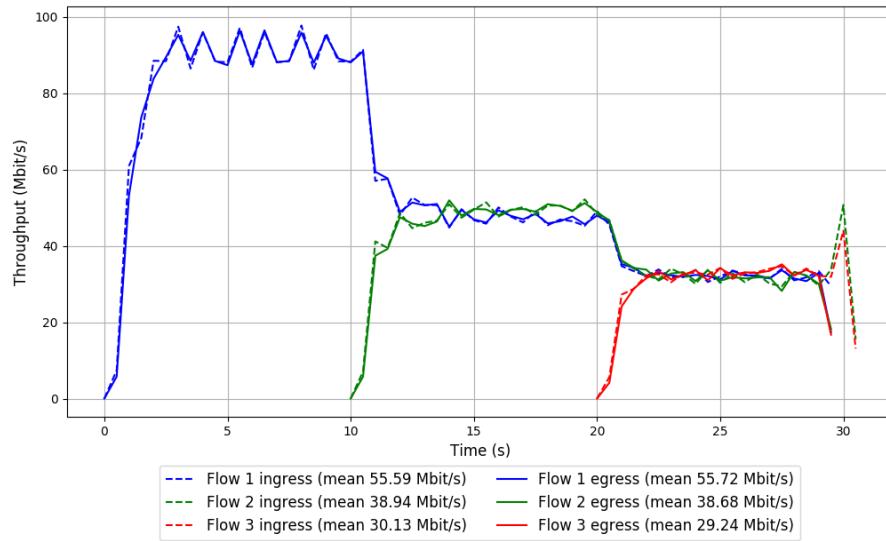


Run 6: Statistics of FillP

```
Start at: 2018-04-24 18:56:04
End at: 2018-04-24 18:56:34
Local clock offset: 2.055 ms
Remote clock offset: -1.512 ms

# Below is generated by plot.py at 2018-04-25 00:55:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.88 Mbit/s
95th percentile per-packet one-way delay: 70.128 ms
Loss rate: 3.22%
-- Flow 1:
Average throughput: 55.72 Mbit/s
95th percentile per-packet one-way delay: 67.978 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 38.68 Mbit/s
95th percentile per-packet one-way delay: 70.765 ms
Loss rate: 5.31%
-- Flow 3:
Average throughput: 29.24 Mbit/s
95th percentile per-packet one-way delay: 73.467 ms
Loss rate: 11.93%
```

Run 6: Report of FillP — Data Link

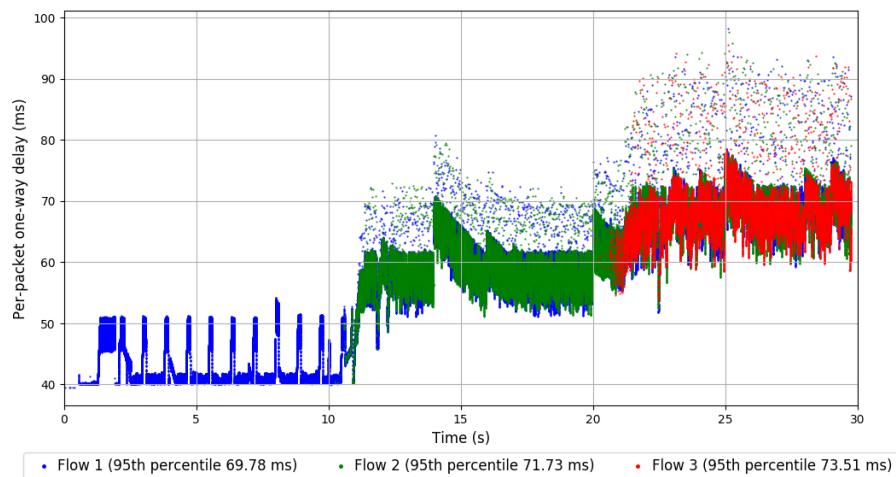
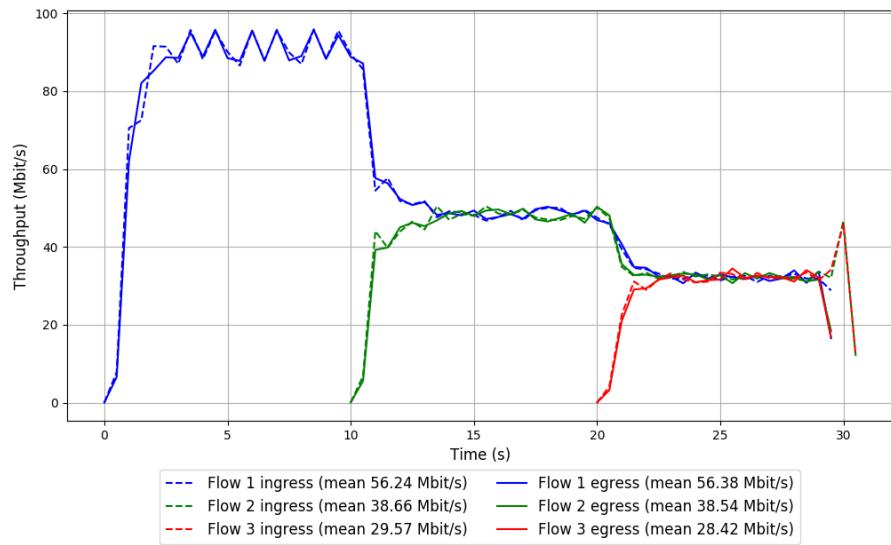


Run 7: Statistics of FillP

```
Start at: 2018-04-24 19:18:58
End at: 2018-04-24 19:19:28
Local clock offset: 2.537 ms
Remote clock offset: -1.241 ms

# Below is generated by plot.py at 2018-04-25 00:56:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.13 Mbit/s
95th percentile per-packet one-way delay: 71.262 ms
Loss rate: 3.09%
-- Flow 1:
Average throughput: 56.38 Mbit/s
95th percentile per-packet one-way delay: 69.782 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 38.54 Mbit/s
95th percentile per-packet one-way delay: 71.735 ms
Loss rate: 4.89%
-- Flow 3:
Average throughput: 28.42 Mbit/s
95th percentile per-packet one-way delay: 73.507 ms
Loss rate: 12.53%
```

Run 7: Report of FillP — Data Link

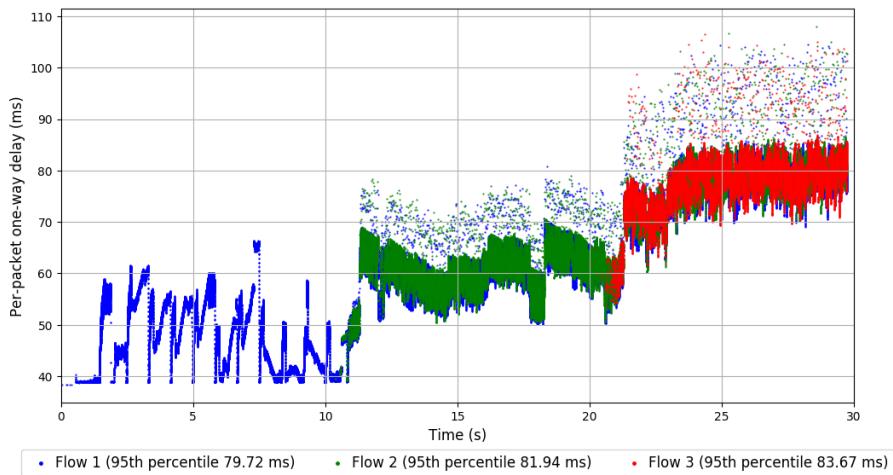
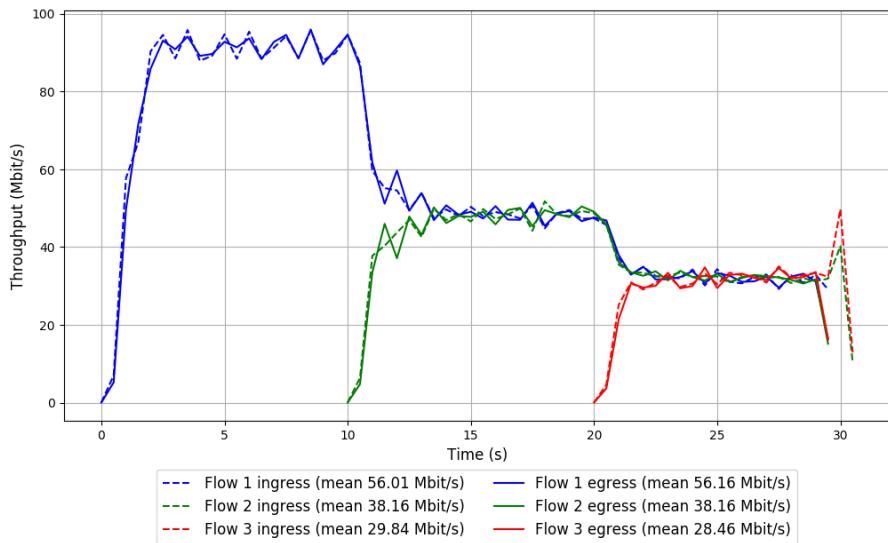


Run 8: Statistics of FillP

```
Start at: 2018-04-24 19:41:47
End at: 2018-04-24 19:42:17
Local clock offset: -2.798 ms
Remote clock offset: -0.865 ms

# Below is generated by plot.py at 2018-04-25 00:56:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.71 Mbit/s
95th percentile per-packet one-way delay: 81.475 ms
Loss rate: 3.14%
-- Flow 1:
Average throughput: 56.16 Mbit/s
95th percentile per-packet one-way delay: 79.717 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 38.16 Mbit/s
95th percentile per-packet one-way delay: 81.942 ms
Loss rate: 4.61%
-- Flow 3:
Average throughput: 28.46 Mbit/s
95th percentile per-packet one-way delay: 83.668 ms
Loss rate: 13.33%
```

Run 8: Report of FillP — Data Link

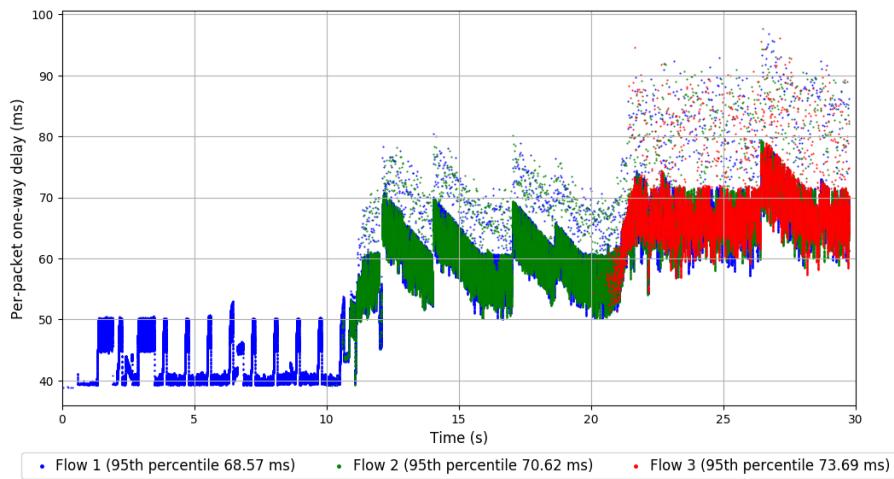
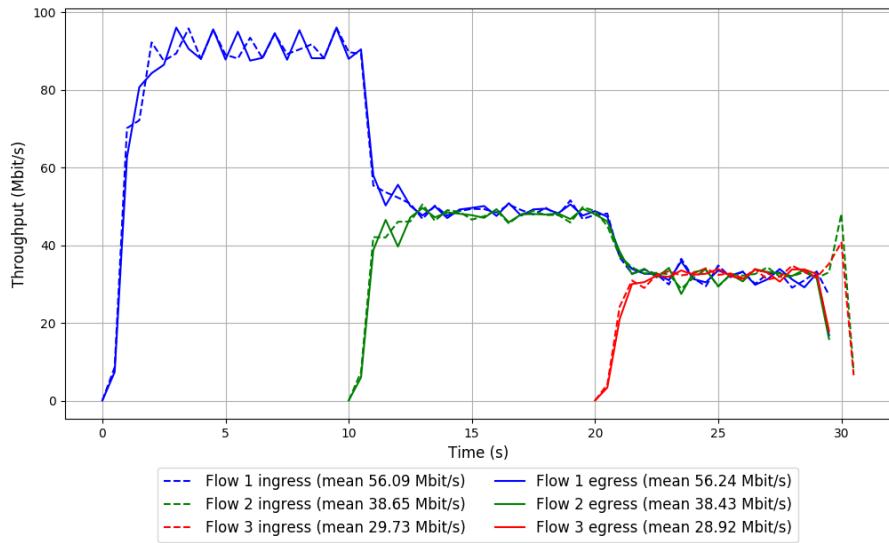


Run 9: Statistics of FillP

```
Start at: 2018-04-24 20:04:39
End at: 2018-04-24 20:05:09
Local clock offset: 2.938 ms
Remote clock offset: -0.762 ms

# Below is generated by plot.py at 2018-04-25 00:57:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.14 Mbit/s
95th percentile per-packet one-way delay: 70.255 ms
Loss rate: 2.87%
-- Flow 1:
Average throughput: 56.24 Mbit/s
95th percentile per-packet one-way delay: 68.570 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 38.43 Mbit/s
95th percentile per-packet one-way delay: 70.618 ms
Loss rate: 4.79%
-- Flow 3:
Average throughput: 28.92 Mbit/s
95th percentile per-packet one-way delay: 73.694 ms
Loss rate: 10.92%
```

Run 9: Report of FillP — Data Link

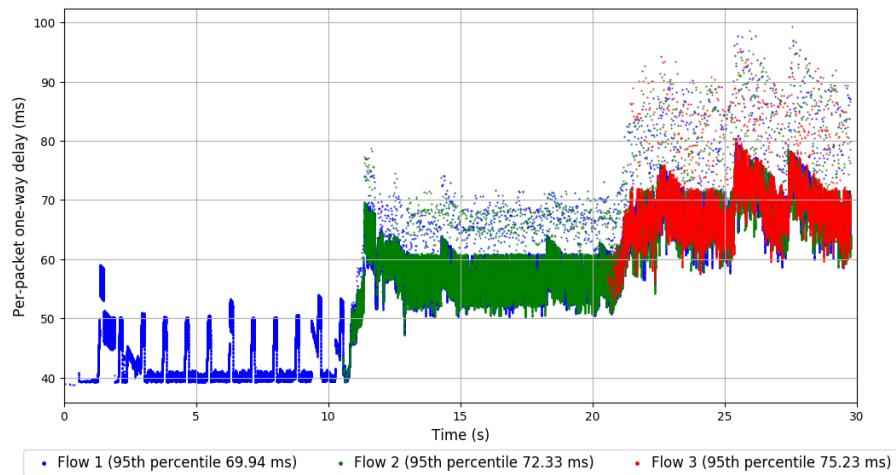
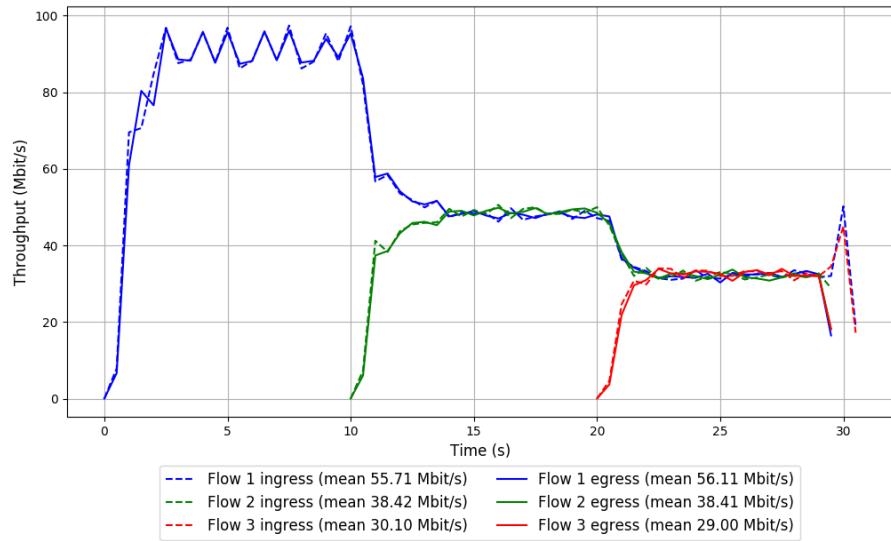


Run 10: Statistics of FillP

```
Start at: 2018-04-24 20:27:48
End at: 2018-04-24 20:28:18
Local clock offset: 5.321 ms
Remote clock offset: -0.607 ms

# Below is generated by plot.py at 2018-04-25 00:57:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.01 Mbit/s
95th percentile per-packet one-way delay: 72.006 ms
Loss rate: 3.33%
-- Flow 1:
Average throughput: 56.11 Mbit/s
95th percentile per-packet one-way delay: 69.938 ms
Loss rate: 2.57%
-- Flow 2:
Average throughput: 38.41 Mbit/s
95th percentile per-packet one-way delay: 72.326 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 29.00 Mbit/s
95th percentile per-packet one-way delay: 75.235 ms
Loss rate: 12.90%
```

Run 10: Report of FillP — Data Link

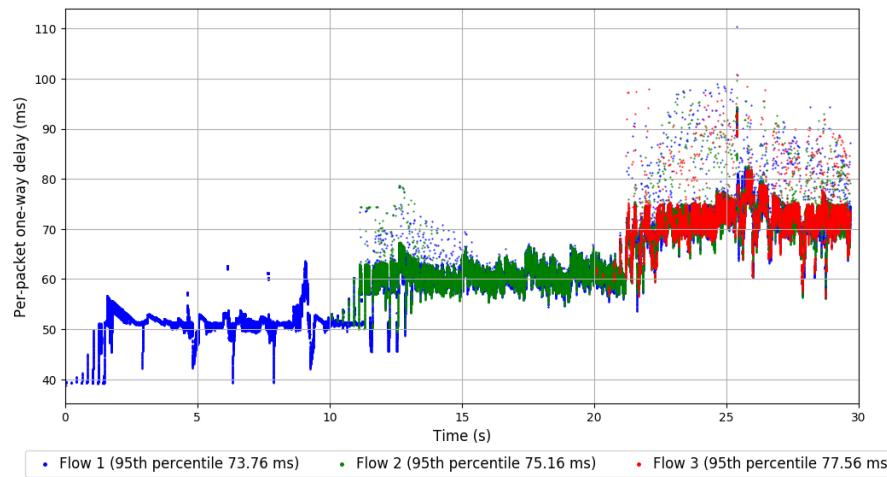
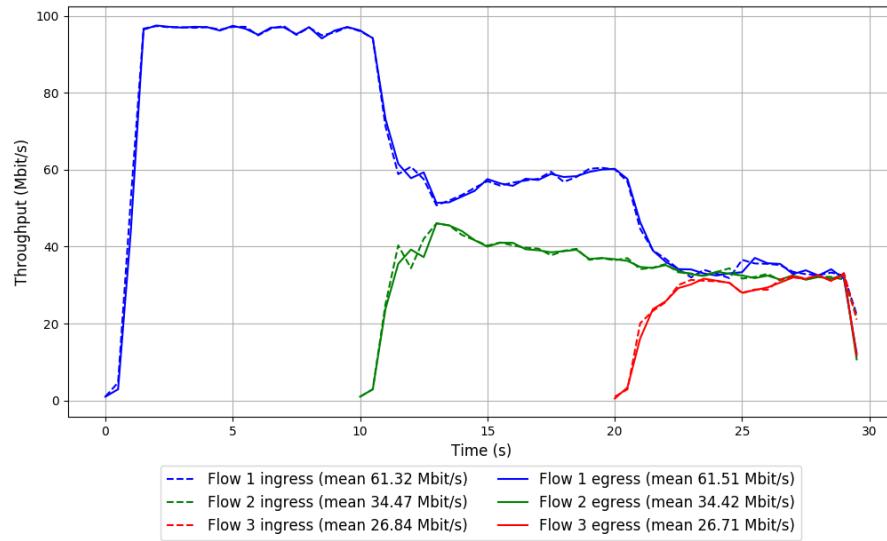


Run 1: Statistics of Indigo-1-32

```
Start at: 2018-04-24 17:08:01
End at: 2018-04-24 17:08:31
Local clock offset: -2.685 ms
Remote clock offset: -6.511 ms

# Below is generated by plot.py at 2018-04-25 00:57:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.89 Mbit/s
95th percentile per-packet one-way delay: 74.665 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 61.51 Mbit/s
95th percentile per-packet one-way delay: 73.757 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 34.42 Mbit/s
95th percentile per-packet one-way delay: 75.162 ms
Loss rate: 1.17%
-- Flow 3:
Average throughput: 26.71 Mbit/s
95th percentile per-packet one-way delay: 77.556 ms
Loss rate: 2.86%
```

Run 1: Report of Indigo-1-32 — Data Link

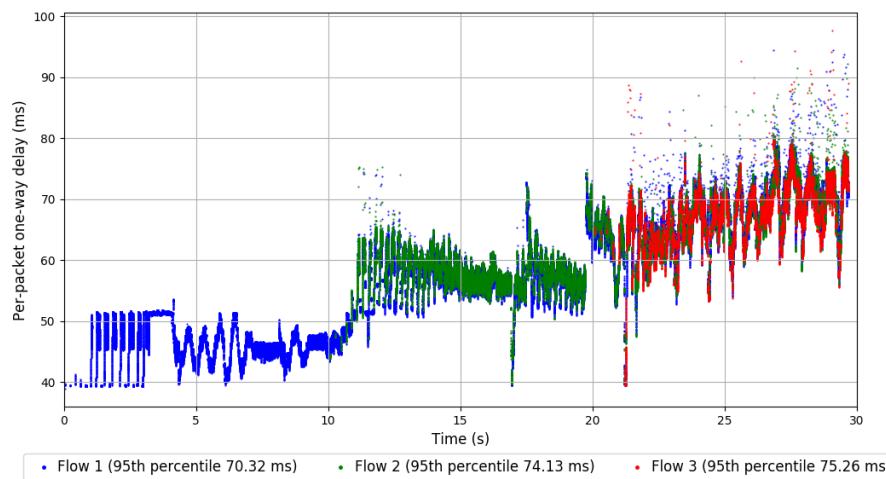
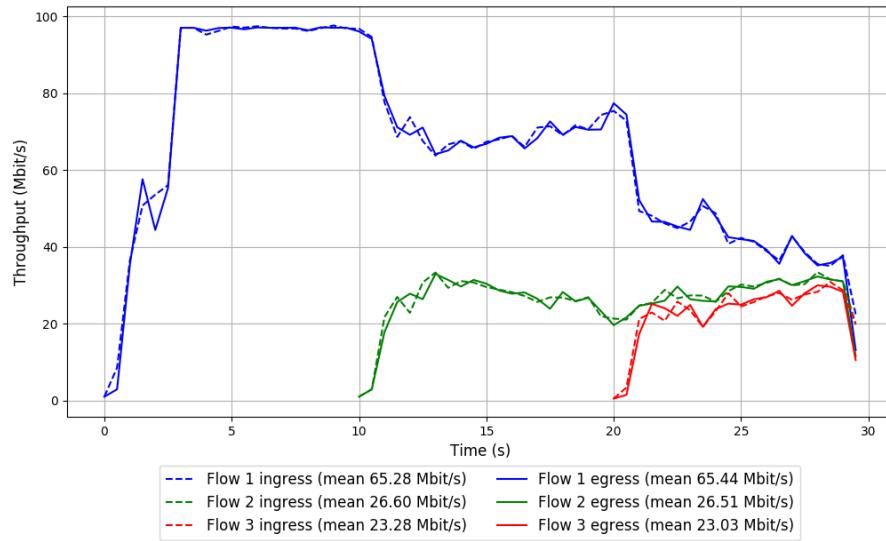


Run 2: Statistics of Indigo-1-32

```
Start at: 2018-04-24 17:30:54
End at: 2018-04-24 17:31:24
Local clock offset: -0.709 ms
Remote clock offset: -5.816 ms

# Below is generated by plot.py at 2018-04-25 00:57:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.39 Mbit/s
95th percentile per-packet one-way delay: 72.385 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 65.44 Mbit/s
95th percentile per-packet one-way delay: 70.322 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 26.51 Mbit/s
95th percentile per-packet one-way delay: 74.131 ms
Loss rate: 1.33%
-- Flow 3:
Average throughput: 23.03 Mbit/s
95th percentile per-packet one-way delay: 75.260 ms
Loss rate: 3.01%
```

Run 2: Report of Indigo-1-32 — Data Link

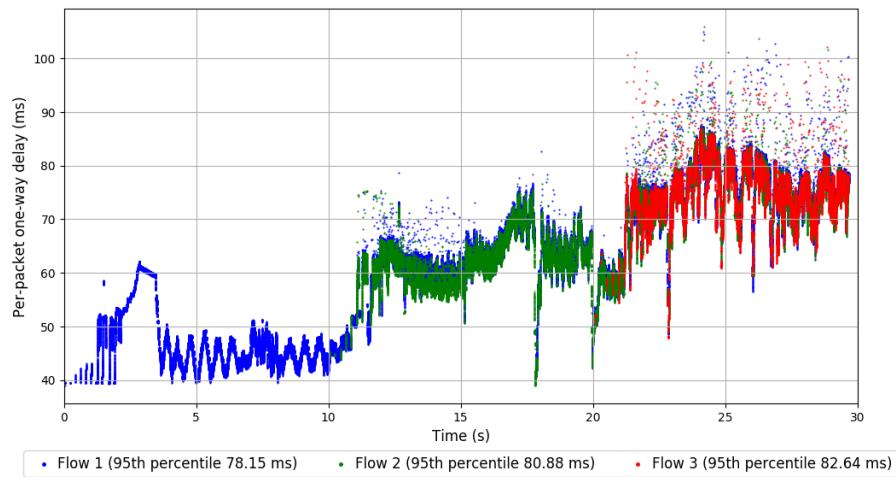
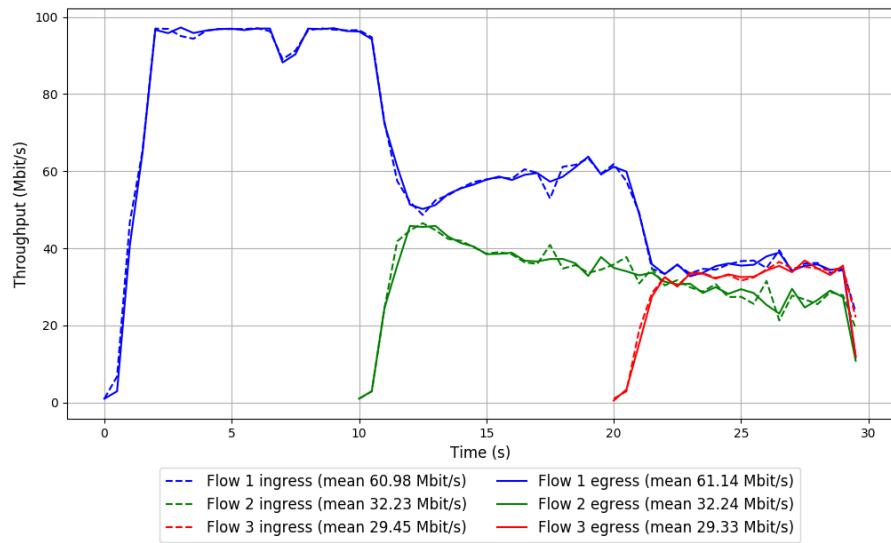


Run 3: Statistics of Indigo-1-32

```
Start at: 2018-04-24 17:53:58
End at: 2018-04-24 17:54:28
Local clock offset: -5.144 ms
Remote clock offset: -2.087 ms

# Below is generated by plot.py at 2018-04-25 00:57:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.96 Mbit/s
95th percentile per-packet one-way delay: 80.104 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 61.14 Mbit/s
95th percentile per-packet one-way delay: 78.154 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 32.24 Mbit/s
95th percentile per-packet one-way delay: 80.877 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 29.33 Mbit/s
95th percentile per-packet one-way delay: 82.640 ms
Loss rate: 2.64%
```

Run 3: Report of Indigo-1-32 — Data Link

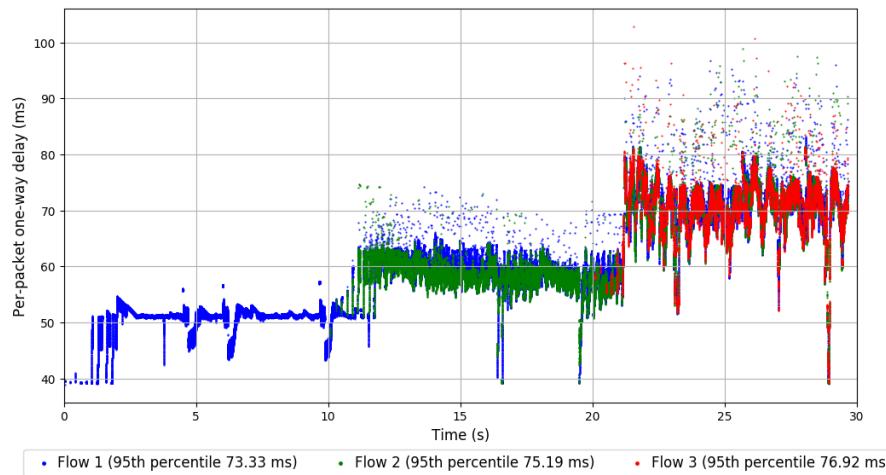
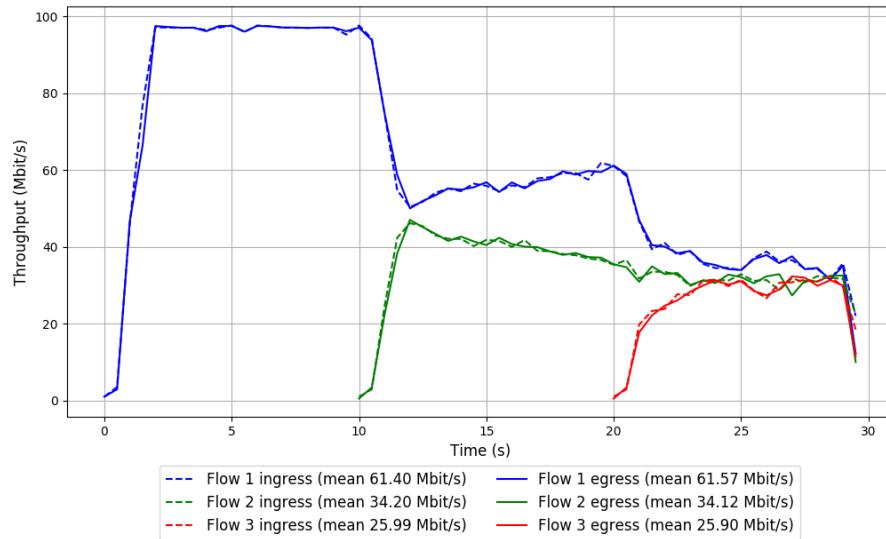


Run 4: Statistics of Indigo-1-32

```
Start at: 2018-04-24 18:16:52
End at: 2018-04-24 18:17:22
Local clock offset: -3.006 ms
Remote clock offset: -1.417 ms

# Below is generated by plot.py at 2018-04-25 00:57:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.50 Mbit/s
95th percentile per-packet one-way delay: 74.499 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 61.57 Mbit/s
95th percentile per-packet one-way delay: 73.332 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 34.12 Mbit/s
95th percentile per-packet one-way delay: 75.185 ms
Loss rate: 1.22%
-- Flow 3:
Average throughput: 25.90 Mbit/s
95th percentile per-packet one-way delay: 76.925 ms
Loss rate: 2.45%
```

Run 4: Report of Indigo-1-32 — Data Link

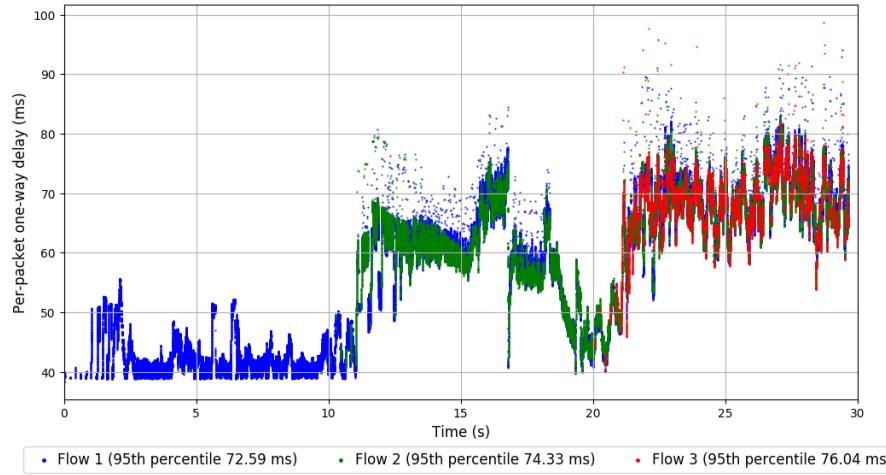
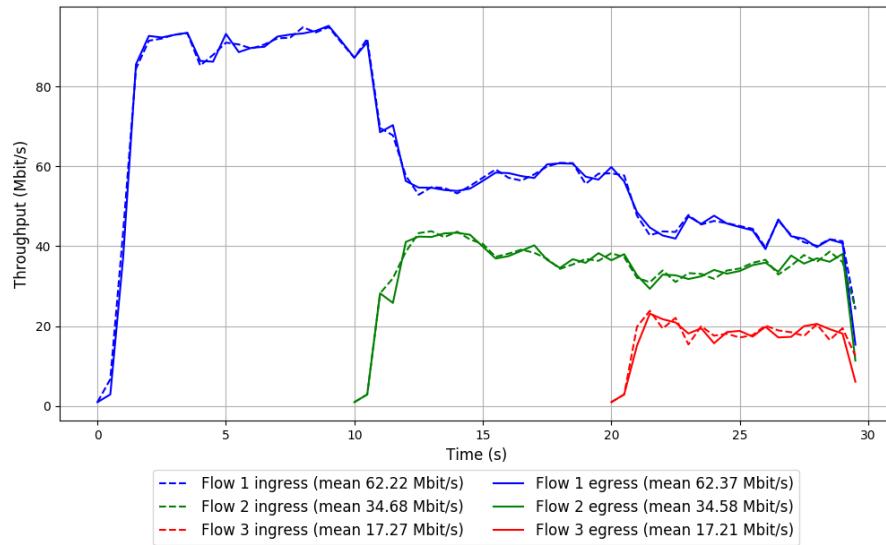


Run 5: Statistics of Indigo-1-32

```
Start at: 2018-04-24 18:39:46
End at: 2018-04-24 18:40:16
Local clock offset: -0.436 ms
Remote clock offset: -1.399 ms

# Below is generated by plot.py at 2018-04-25 00:58:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.83 Mbit/s
95th percentile per-packet one-way delay: 73.650 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 62.37 Mbit/s
95th percentile per-packet one-way delay: 72.592 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 34.58 Mbit/s
95th percentile per-packet one-way delay: 74.333 ms
Loss rate: 1.28%
-- Flow 3:
Average throughput: 17.21 Mbit/s
95th percentile per-packet one-way delay: 76.036 ms
Loss rate: 2.36%
```

Run 5: Report of Indigo-1-32 — Data Link

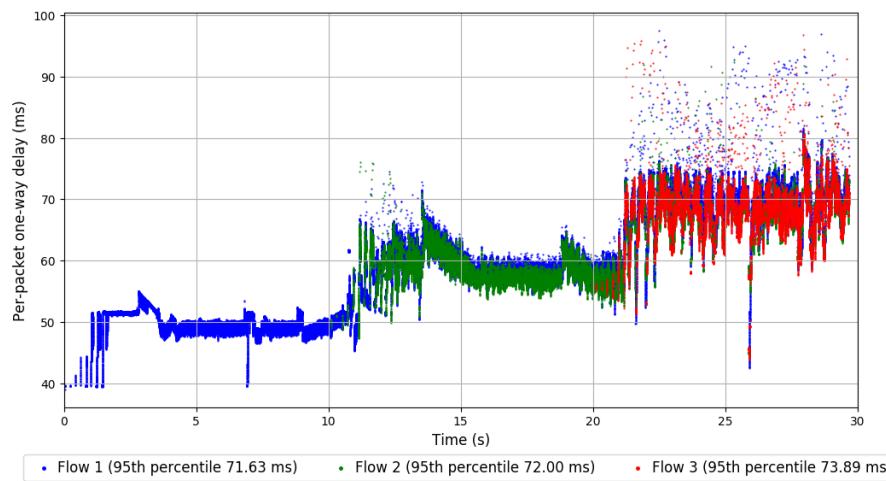
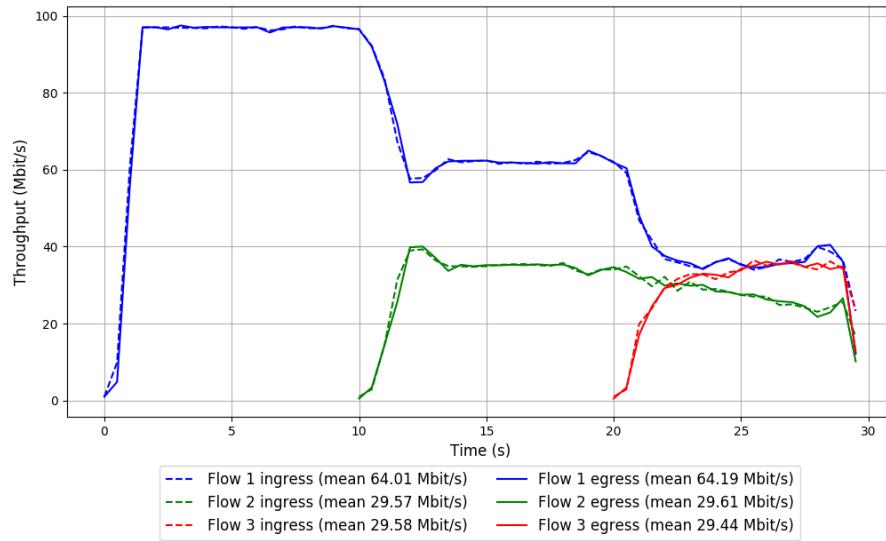


Run 6: Statistics of Indigo-1-32

```
Start at: 2018-04-24 19:02:39
End at: 2018-04-24 19:03:09
Local clock offset: 2.591 ms
Remote clock offset: -1.602 ms

# Below is generated by plot.py at 2018-04-25 00:58:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.23 Mbit/s
95th percentile per-packet one-way delay: 72.141 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 64.19 Mbit/s
95th percentile per-packet one-way delay: 71.626 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 29.61 Mbit/s
95th percentile per-packet one-way delay: 71.998 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 29.44 Mbit/s
95th percentile per-packet one-way delay: 73.893 ms
Loss rate: 2.63%
```

Run 6: Report of Indigo-1-32 — Data Link

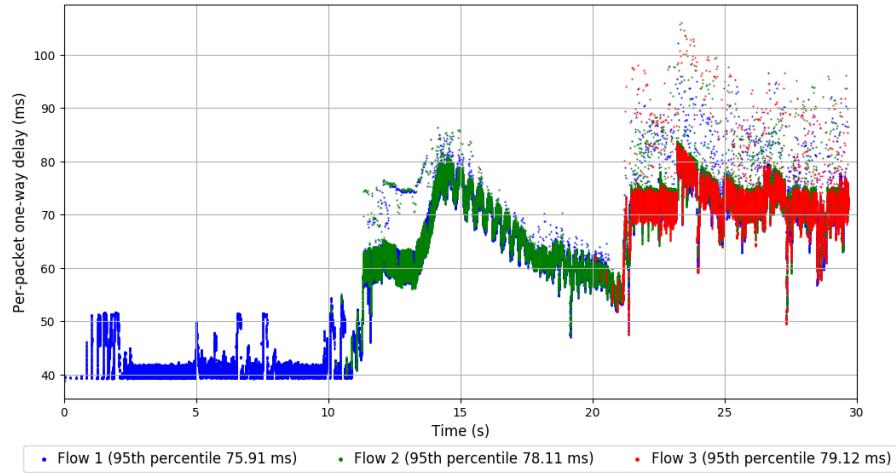
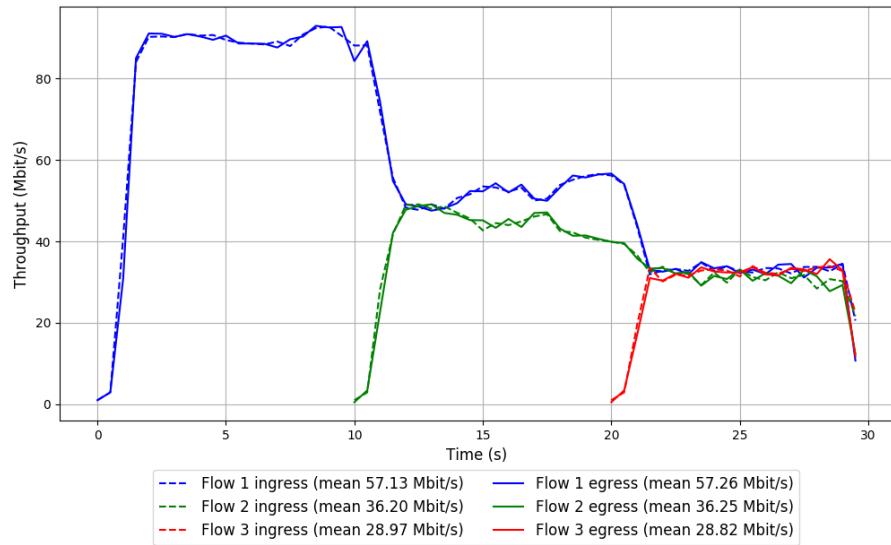


Run 7: Statistics of Indigo-1-32

```
Start at: 2018-04-24 19:25:31
End at: 2018-04-24 19:26:01
Local clock offset: -0.419 ms
Remote clock offset: -1.067 ms

# Below is generated by plot.py at 2018-04-25 00:58:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.52 Mbit/s
95th percentile per-packet one-way delay: 77.141 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 57.26 Mbit/s
95th percentile per-packet one-way delay: 75.913 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 36.25 Mbit/s
95th percentile per-packet one-way delay: 78.110 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 28.82 Mbit/s
95th percentile per-packet one-way delay: 79.116 ms
Loss rate: 2.67%
```

Run 7: Report of Indigo-1-32 — Data Link

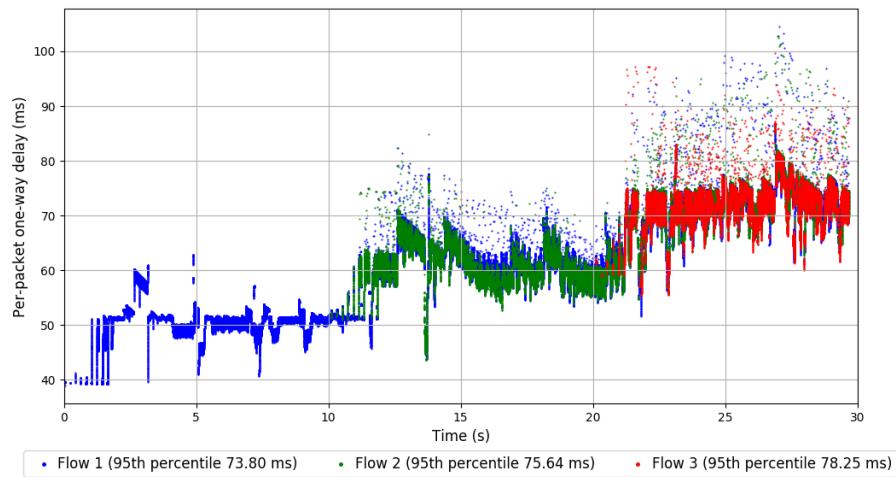
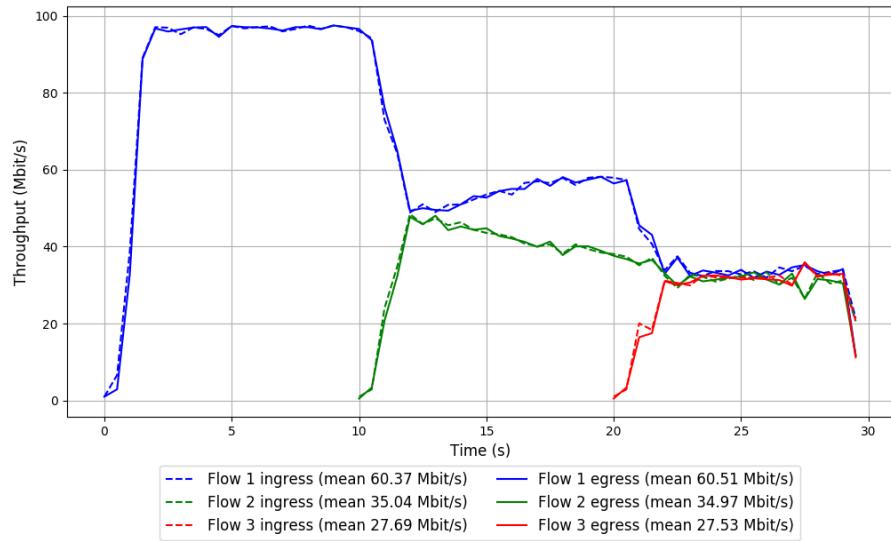


Run 8: Statistics of Indigo-1-32

```
Start at: 2018-04-24 19:48:21
End at: 2018-04-24 19:48:51
Local clock offset: -3.013 ms
Remote clock offset: -0.829 ms

# Below is generated by plot.py at 2018-04-25 00:58:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.46 Mbit/s
95th percentile per-packet one-way delay: 74.931 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 60.51 Mbit/s
95th percentile per-packet one-way delay: 73.795 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 34.97 Mbit/s
95th percentile per-packet one-way delay: 75.638 ms
Loss rate: 1.23%
-- Flow 3:
Average throughput: 27.53 Mbit/s
95th percentile per-packet one-way delay: 78.254 ms
Loss rate: 2.81%
```

Run 8: Report of Indigo-1-32 — Data Link

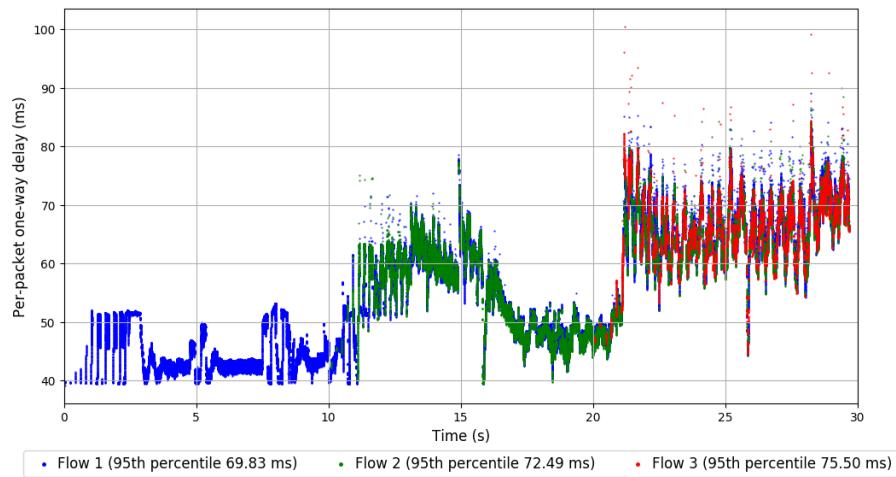
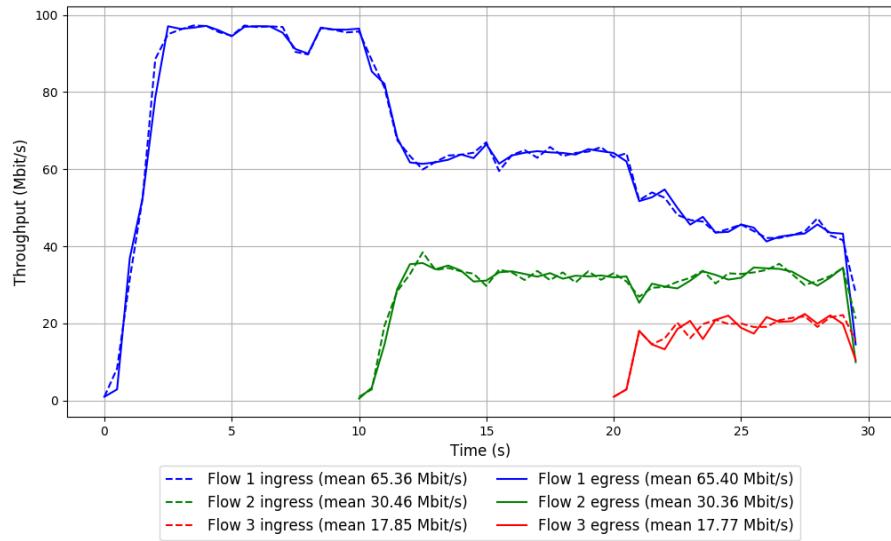


Run 9: Statistics of Indigo-1-32

```
Start at: 2018-04-24 20:11:13
End at: 2018-04-24 20:11:43
Local clock offset: 4.293 ms
Remote clock offset: -0.677 ms

# Below is generated by plot.py at 2018-04-25 00:58:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.20 Mbit/s
95th percentile per-packet one-way delay: 71.452 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 65.40 Mbit/s
95th percentile per-packet one-way delay: 69.826 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 30.36 Mbit/s
95th percentile per-packet one-way delay: 72.487 ms
Loss rate: 1.33%
-- Flow 3:
Average throughput: 17.77 Mbit/s
95th percentile per-packet one-way delay: 75.501 ms
Loss rate: 2.47%
```

Run 9: Report of Indigo-1-32 — Data Link

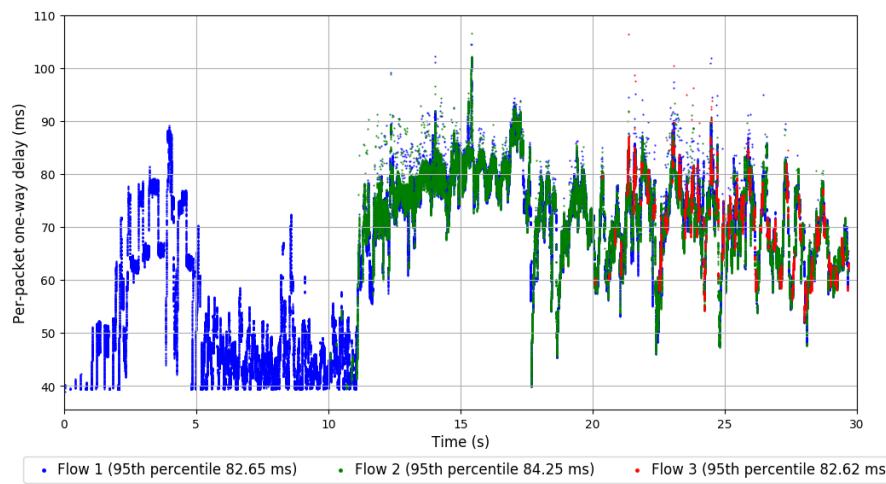
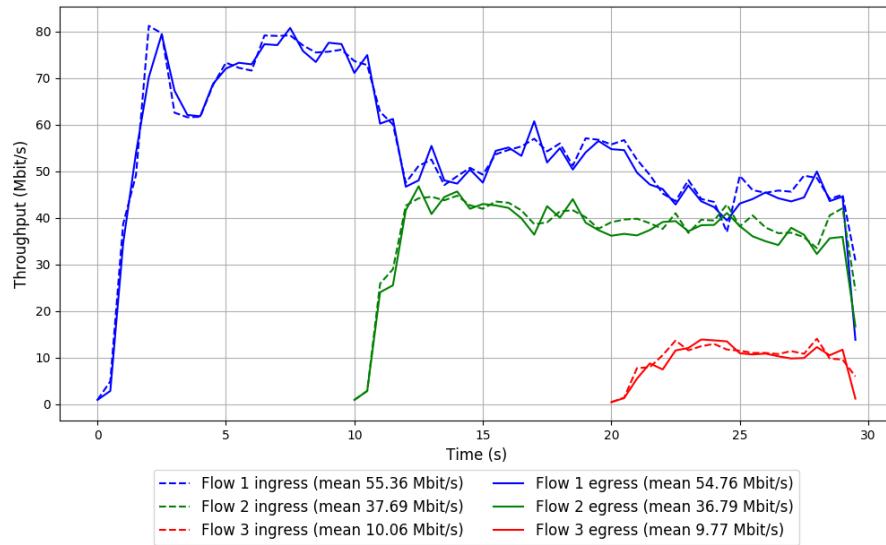


Run 10: Statistics of Indigo-1-32

```
Start at: 2018-04-24 20:34:21
End at: 2018-04-24 20:34:51
Local clock offset: 4.459 ms
Remote clock offset: -0.546 ms

# Below is generated by plot.py at 2018-04-25 00:58:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.20 Mbit/s
95th percentile per-packet one-way delay: 83.259 ms
Loss rate: 2.41%
-- Flow 1:
Average throughput: 54.76 Mbit/s
95th percentile per-packet one-way delay: 82.652 ms
Loss rate: 1.78%
-- Flow 2:
Average throughput: 36.79 Mbit/s
95th percentile per-packet one-way delay: 84.253 ms
Loss rate: 3.46%
-- Flow 3:
Average throughput: 9.77 Mbit/s
95th percentile per-packet one-way delay: 82.619 ms
Loss rate: 5.08%
```

Run 10: Report of Indigo-1-32 — Data Link

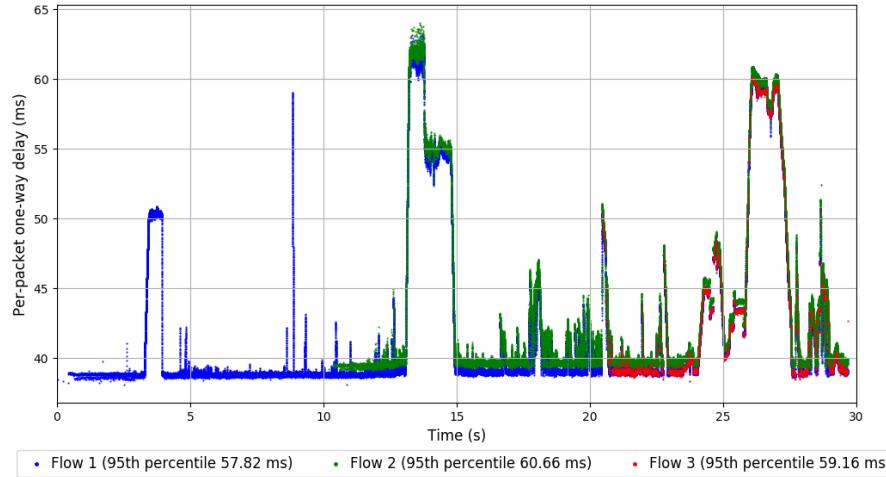
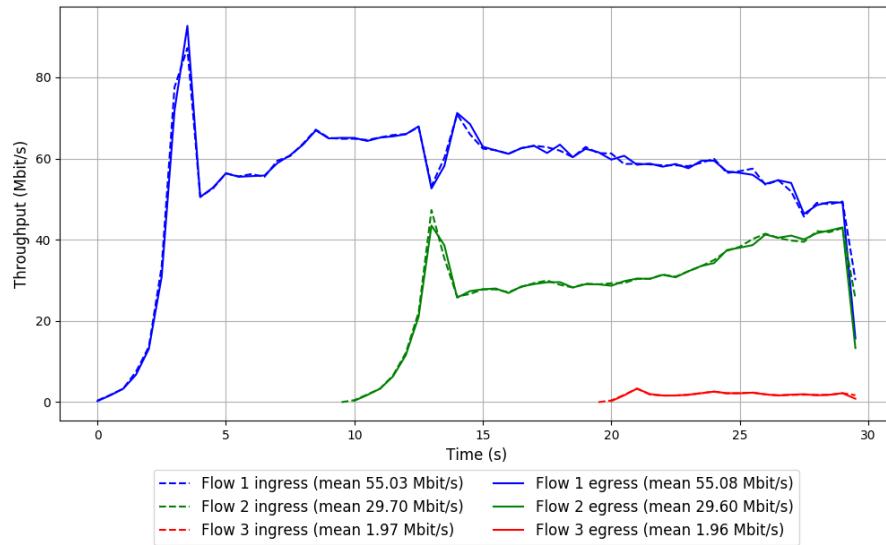


```
Run 1: Statistics of PCC-Vivace

Start at: 2018-04-24 17:17:25
End at: 2018-04-24 17:17:55
Local clock offset: -1.294 ms
Remote clock offset: -5.943 ms

# Below is generated by plot.py at 2018-04-25 00:58:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.35 Mbit/s
95th percentile per-packet one-way delay: 59.425 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 55.08 Mbit/s
95th percentile per-packet one-way delay: 57.822 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 29.60 Mbit/s
95th percentile per-packet one-way delay: 60.661 ms
Loss rate: 1.30%
-- Flow 3:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 59.155 ms
Loss rate: 2.65%
```

Run 1: Report of PCC-Vivace — Data Link

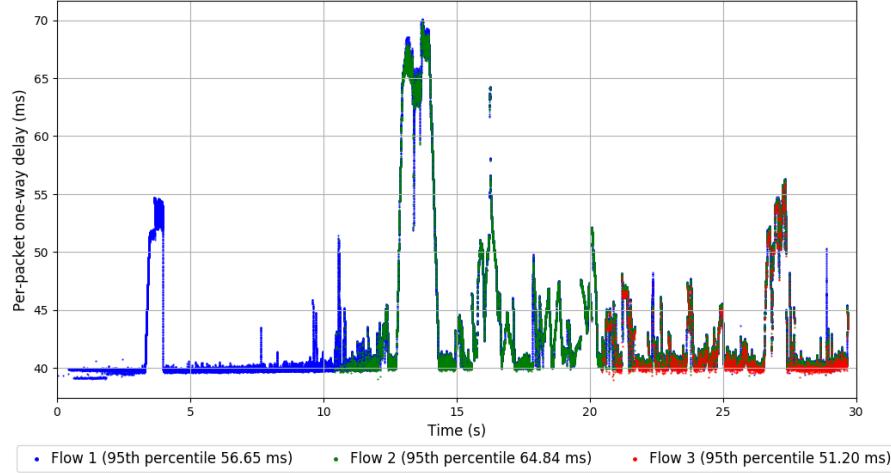
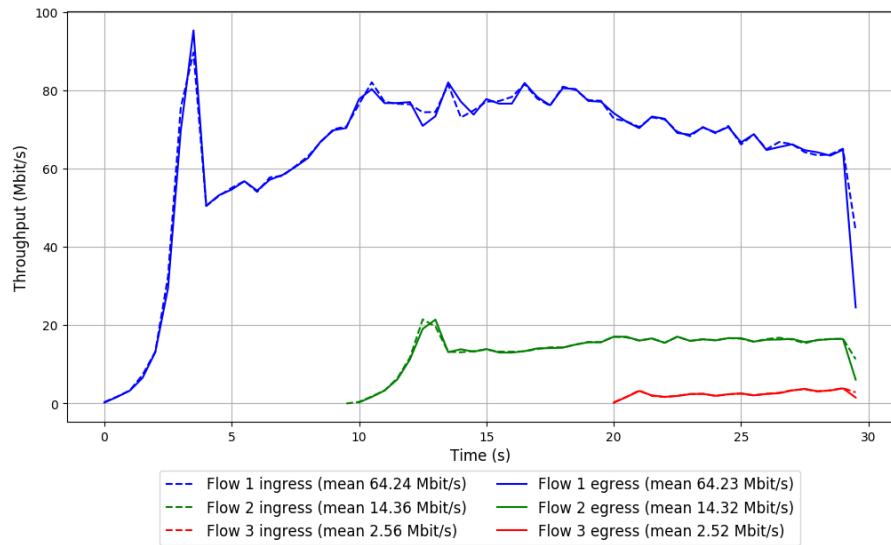


Run 2: Statistics of PCC-Vivace

```
Start at: 2018-04-24 17:40:18
End at: 2018-04-24 17:40:48
Local clock offset: -2.644 ms
Remote clock offset: -2.795 ms

# Below is generated by plot.py at 2018-04-25 00:58:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 74.54 Mbit/s
95th percentile per-packet one-way delay: 59.184 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 64.23 Mbit/s
95th percentile per-packet one-way delay: 56.649 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 14.32 Mbit/s
95th percentile per-packet one-way delay: 64.845 ms
Loss rate: 1.21%
-- Flow 3:
Average throughput: 2.52 Mbit/s
95th percentile per-packet one-way delay: 51.202 ms
Loss rate: 3.33%
```

Run 2: Report of PCC-Vivace — Data Link

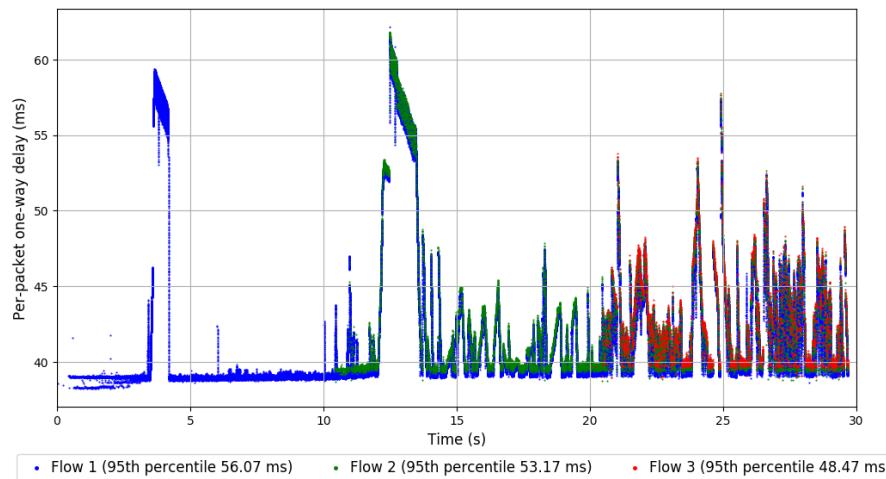
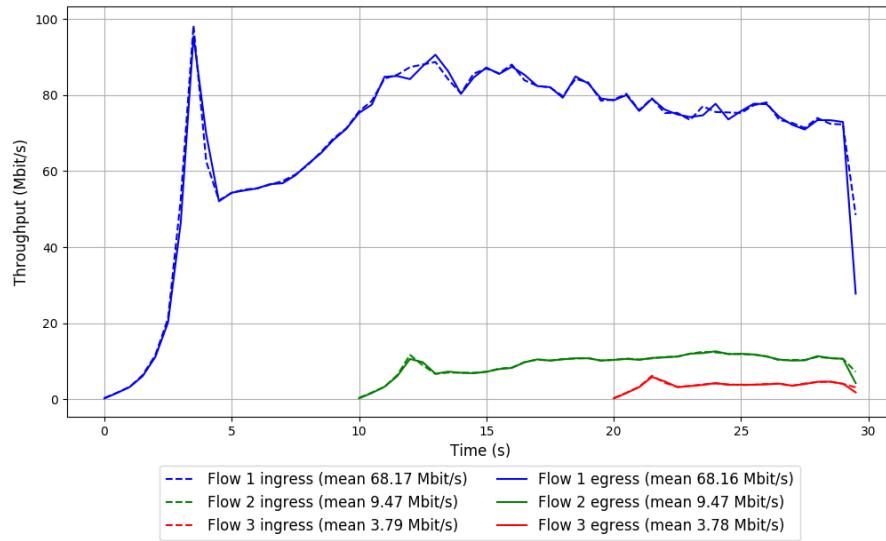


Run 3: Statistics of PCC-Vivace

```
Start at: 2018-04-24 18:03:24
End at: 2018-04-24 18:03:54
Local clock offset: -6.096 ms
Remote clock offset: -2.101 ms

# Below is generated by plot.py at 2018-04-25 00:59:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.66 Mbit/s
95th percentile per-packet one-way delay: 55.911 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 68.16 Mbit/s
95th percentile per-packet one-way delay: 56.068 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 9.47 Mbit/s
95th percentile per-packet one-way delay: 53.166 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 3.78 Mbit/s
95th percentile per-packet one-way delay: 48.474 ms
Loss rate: 2.24%
```

Run 3: Report of PCC-Vivace — Data Link

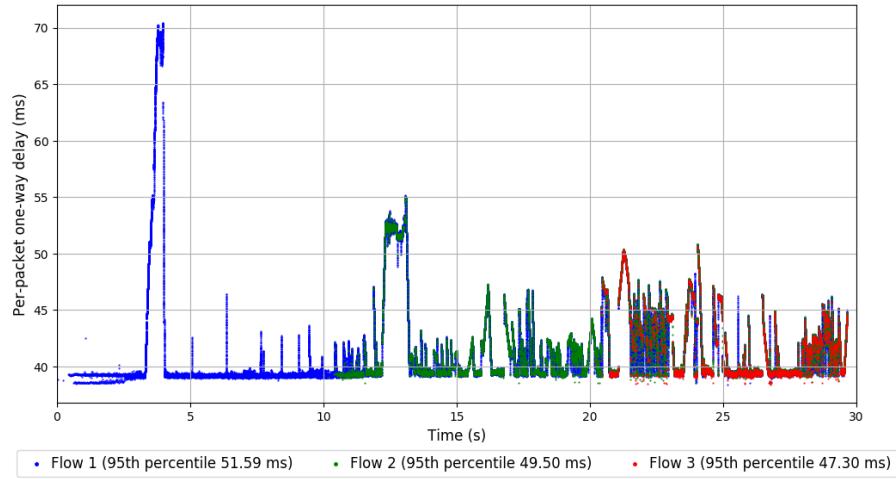
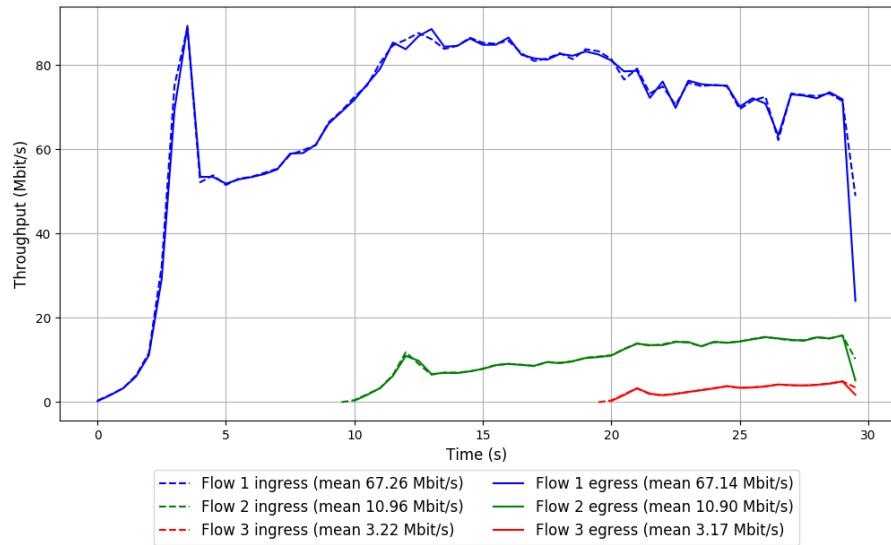


Run 4: Statistics of PCC-Vivace

```
Start at: 2018-04-24 18:26:17
End at: 2018-04-24 18:26:47
Local clock offset: -1.243 ms
Remote clock offset: -1.387 ms

# Below is generated by plot.py at 2018-04-25 00:59:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.40 Mbit/s
95th percentile per-packet one-way delay: 51.498 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 67.14 Mbit/s
95th percentile per-packet one-way delay: 51.594 ms
Loss rate: 0.86%
-- Flow 2:
Average throughput: 10.90 Mbit/s
95th percentile per-packet one-way delay: 49.503 ms
Loss rate: 1.47%
-- Flow 3:
Average throughput: 3.17 Mbit/s
95th percentile per-packet one-way delay: 47.300 ms
Loss rate: 3.44%
```

Run 4: Report of PCC-Vivace — Data Link

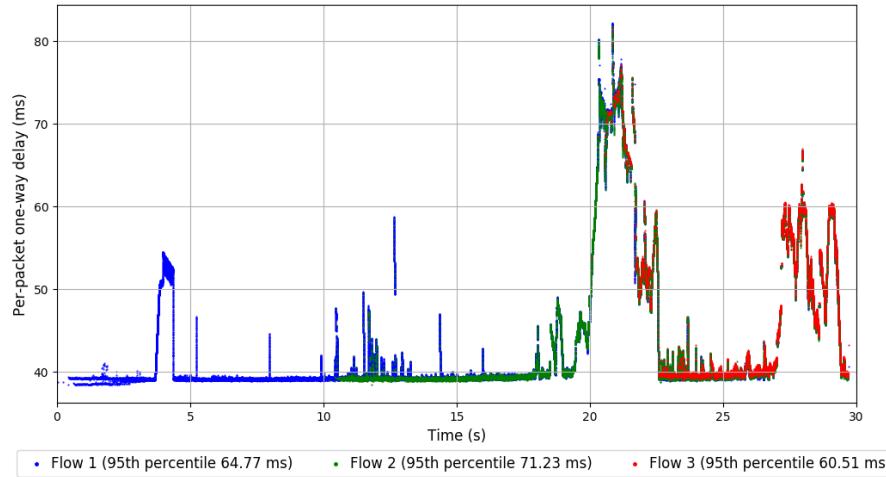
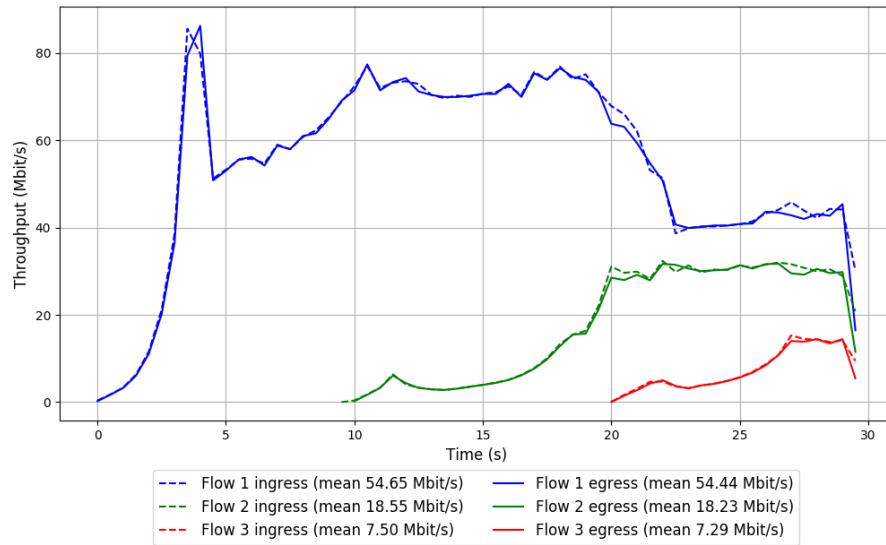


Run 5: Statistics of PCC-Vivace

```
Start at: 2018-04-24 18:49:10
End at: 2018-04-24 18:49:40
Local clock offset: 0.984 ms
Remote clock offset: -1.506 ms

# Below is generated by plot.py at 2018-04-25 00:59:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 68.89 Mbit/s
95th percentile per-packet one-way delay: 66.370 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 54.44 Mbit/s
95th percentile per-packet one-way delay: 64.767 ms
Loss rate: 1.04%
-- Flow 2:
Average throughput: 18.23 Mbit/s
95th percentile per-packet one-way delay: 71.235 ms
Loss rate: 2.77%
-- Flow 3:
Average throughput: 7.29 Mbit/s
95th percentile per-packet one-way delay: 60.510 ms
Loss rate: 4.80%
```

Run 5: Report of PCC-Vivace — Data Link

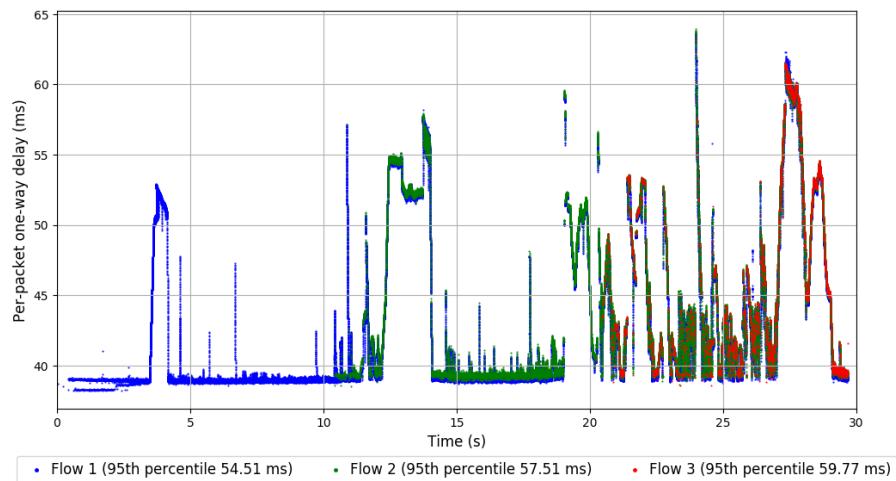
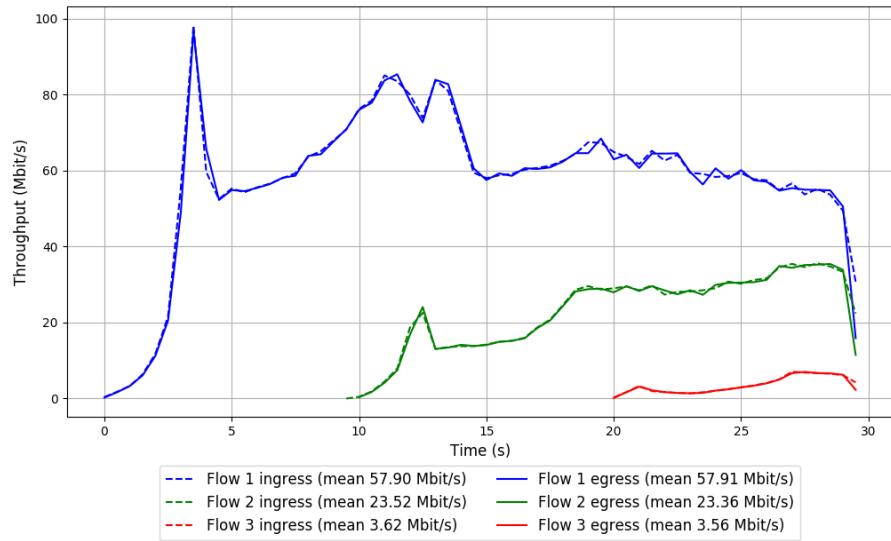


Run 6: Statistics of PCC-Vivace

```
Start at: 2018-04-24 19:12:04
End at: 2018-04-24 19:12:34
Local clock offset: 3.306 ms
Remote clock offset: -1.6 ms

# Below is generated by plot.py at 2018-04-25 00:59:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 74.56 Mbit/s
95th percentile per-packet one-way delay: 54.746 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 57.91 Mbit/s
95th percentile per-packet one-way delay: 54.505 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 23.36 Mbit/s
95th percentile per-packet one-way delay: 57.513 ms
Loss rate: 1.62%
-- Flow 3:
Average throughput: 3.56 Mbit/s
95th percentile per-packet one-way delay: 59.769 ms
Loss rate: 3.48%
```

Run 6: Report of PCC-Vivace — Data Link

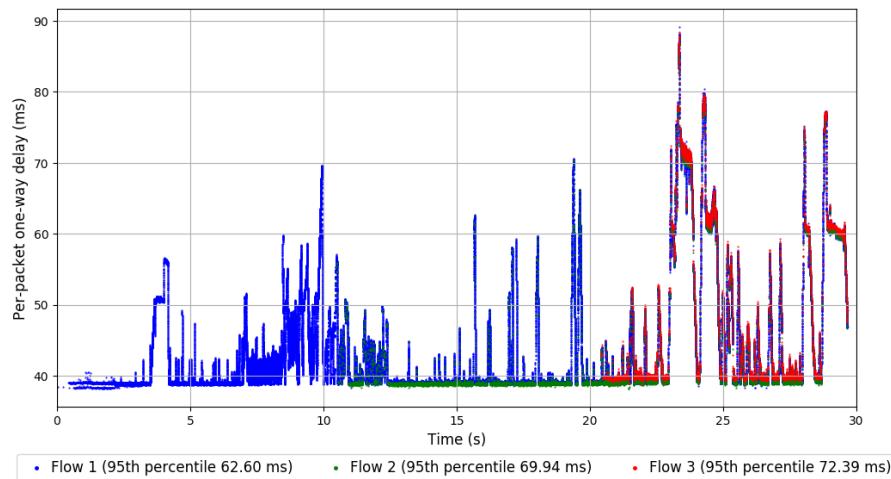
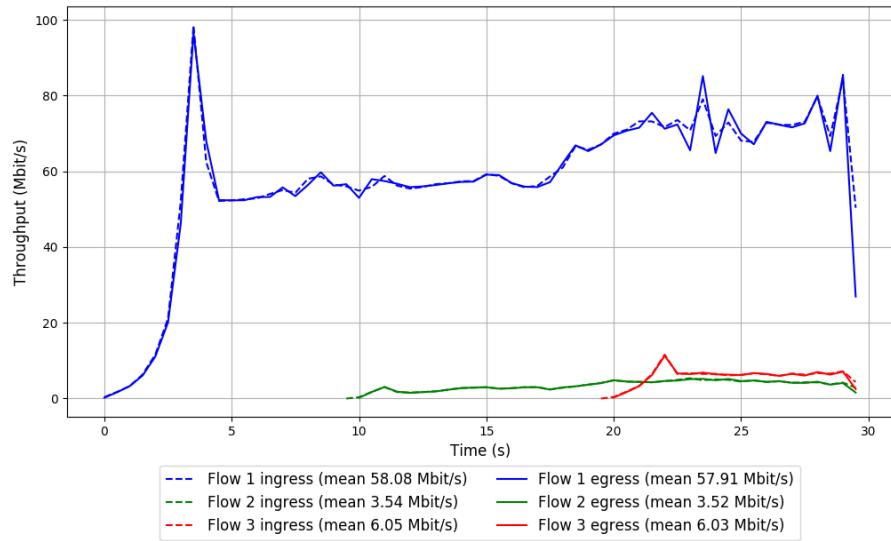


Run 7: Statistics of PCC-Vivace

```
Start at: 2018-04-24 19:34:54
End at: 2018-04-24 19:35:24
Local clock offset: -2.148 ms
Remote clock offset: -0.94 ms

# Below is generated by plot.py at 2018-04-25 00:59:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 62.21 Mbit/s
95th percentile per-packet one-way delay: 63.382 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 57.91 Mbit/s
95th percentile per-packet one-way delay: 62.601 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 3.52 Mbit/s
95th percentile per-packet one-way delay: 69.937 ms
Loss rate: 1.31%
-- Flow 3:
Average throughput: 6.03 Mbit/s
95th percentile per-packet one-way delay: 72.395 ms
Loss rate: 2.37%
```

Run 7: Report of PCC-Vivace — Data Link

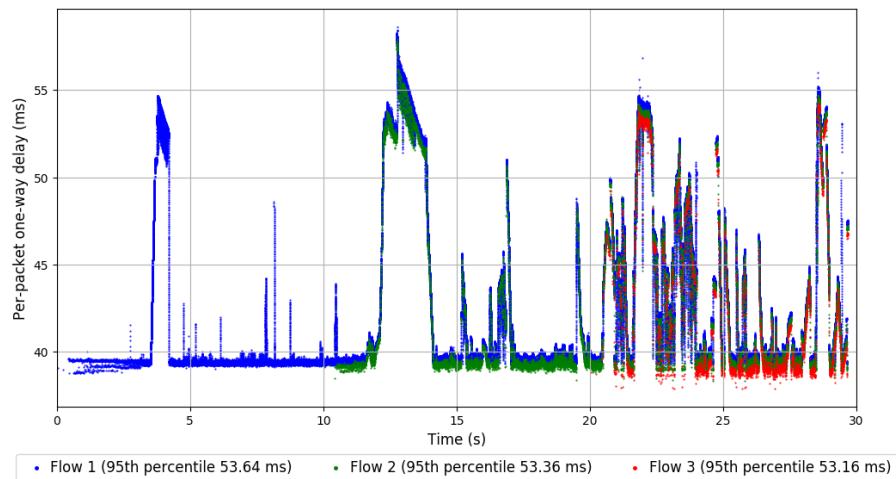
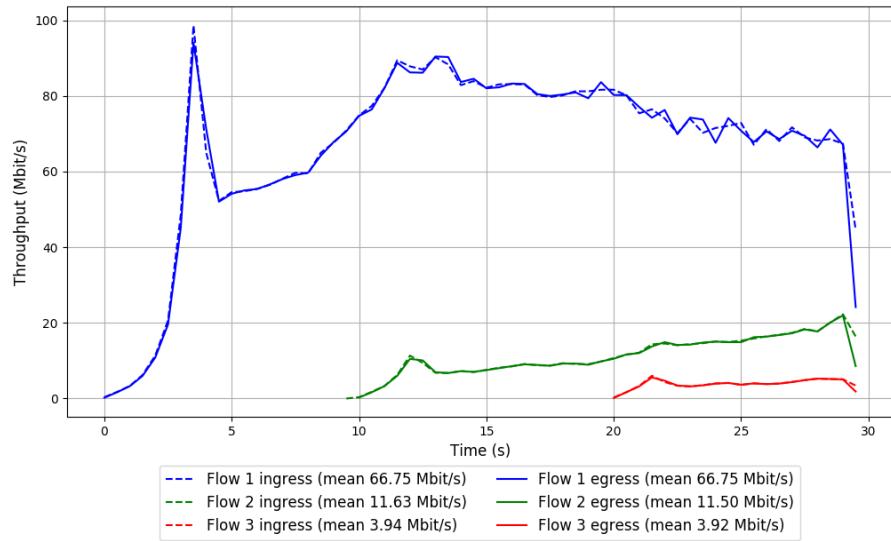


Run 8: Statistics of PCC-Vivace

```
Start at: 2018-04-24 19:57:45
End at: 2018-04-24 19:58:15
Local clock offset: 0.659 ms
Remote clock offset: -0.825 ms

# Below is generated by plot.py at 2018-04-25 00:59:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.65 Mbit/s
95th percentile per-packet one-way delay: 53.564 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 66.75 Mbit/s
95th percentile per-packet one-way delay: 53.642 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 11.50 Mbit/s
95th percentile per-packet one-way delay: 53.359 ms
Loss rate: 2.11%
-- Flow 3:
Average throughput: 3.92 Mbit/s
95th percentile per-packet one-way delay: 53.157 ms
Loss rate: 2.60%
```

Run 8: Report of PCC-Vivace — Data Link

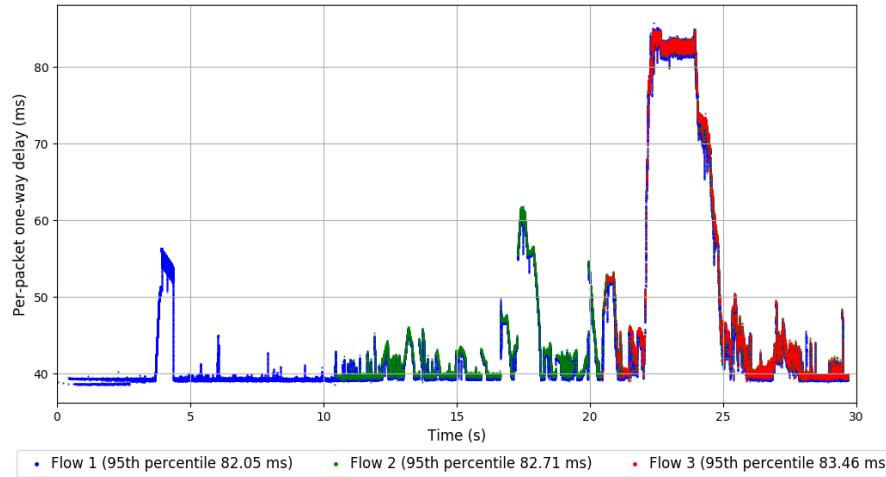
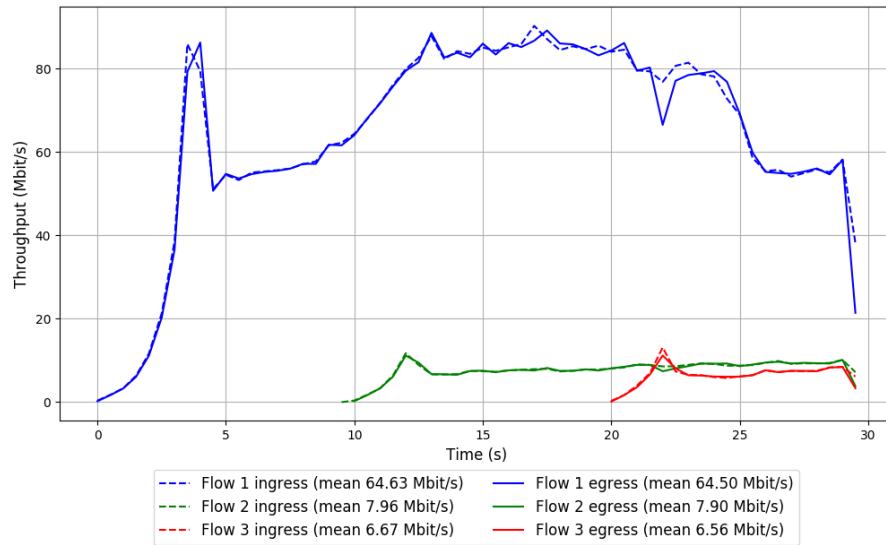


Run 9: Statistics of PCC-Vivace

```
Start at: 2018-04-24 20:20:54
End at: 2018-04-24 20:21:24
Local clock offset: 5.749 ms
Remote clock offset: -0.623 ms

# Below is generated by plot.py at 2018-04-25 00:59:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 71.86 Mbit/s
95th percentile per-packet one-way delay: 82.229 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 64.50 Mbit/s
95th percentile per-packet one-way delay: 82.054 ms
Loss rate: 0.86%
-- Flow 2:
Average throughput: 7.90 Mbit/s
95th percentile per-packet one-way delay: 82.713 ms
Loss rate: 1.76%
-- Flow 3:
Average throughput: 6.56 Mbit/s
95th percentile per-packet one-way delay: 83.461 ms
Loss rate: 3.71%
```

Run 9: Report of PCC-Vivace — Data Link

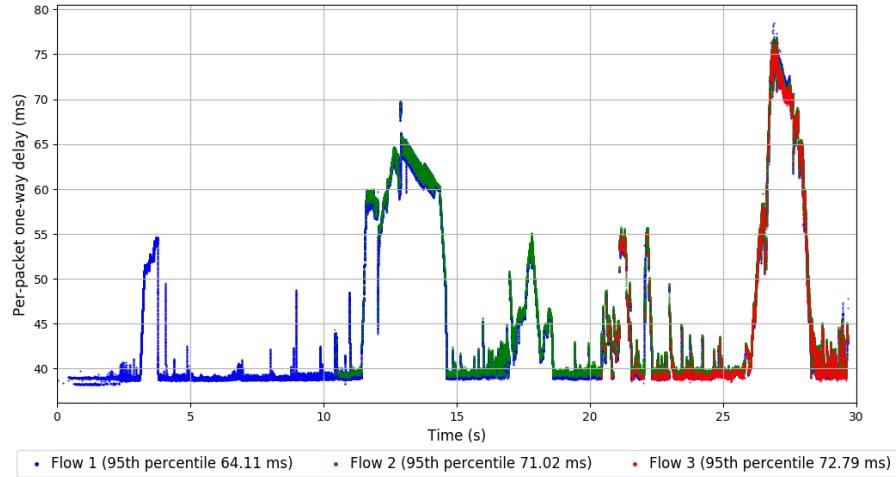
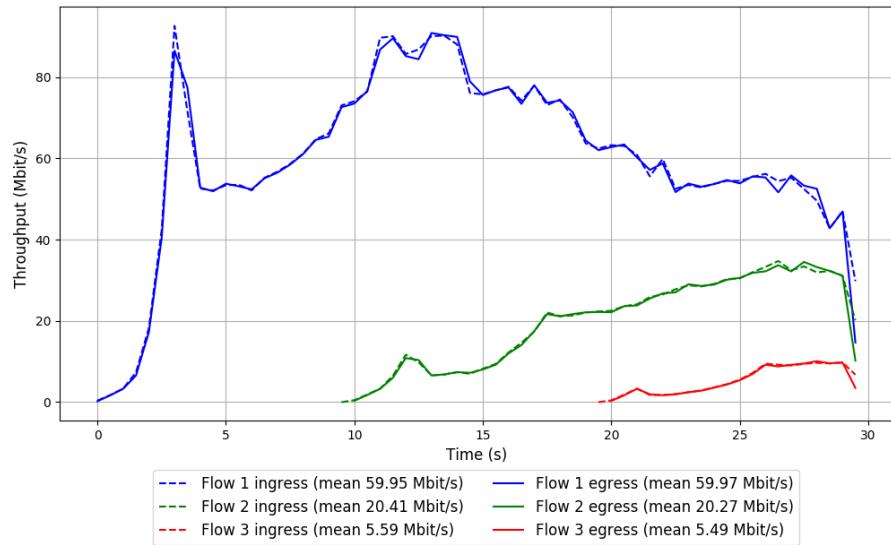


Run 10: Statistics of PCC-Vivace

```
Start at: 2018-04-24 20:43:45
End at: 2018-04-24 20:44:15
Local clock offset: 3.948 ms
Remote clock offset: -0.486 ms

# Below is generated by plot.py at 2018-04-25 00:59:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.20 Mbit/s
95th percentile per-packet one-way delay: 65.413 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 59.97 Mbit/s
95th percentile per-packet one-way delay: 64.109 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 20.27 Mbit/s
95th percentile per-packet one-way delay: 71.023 ms
Loss rate: 1.64%
-- Flow 3:
Average throughput: 5.49 Mbit/s
95th percentile per-packet one-way delay: 72.793 ms
Loss rate: 3.73%
```

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-04-24 17:02:48

End at: 2018-04-24 17:03:18

Local clock offset: -4.602 ms

Remote clock offset: -8.517 ms

Run 1: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of PCC-Expr

Start at: 2018-04-24 17:25:42

End at: 2018-04-24 17:26:12

Local clock offset: -1.005 ms

Remote clock offset: -6.63 ms

Run 2: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of PCC-Expr

Start at: 2018-04-24 17:48:46
End at: 2018-04-24 17:49:16
Local clock offset: -4.171 ms
Remote clock offset: -2.106 ms

Run 3: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of PCC-Expr

Start at: 2018-04-24 18:11:39

End at: 2018-04-24 18:12:09

Local clock offset: -5.082 ms

Remote clock offset: -1.451 ms

Run 4: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of PCC-Expr

Start at: 2018-04-24 18:34:34
End at: 2018-04-24 18:35:04
Local clock offset: -0.825 ms
Remote clock offset: -1.146 ms

Run 5: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of PCC-Expr

Start at: 2018-04-24 18:57:26
End at: 2018-04-24 18:57:56
Local clock offset: 2.301 ms
Remote clock offset: -14.409 ms

Run 6: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of PCC-Expr

Start at: 2018-04-24 19:20:19

End at: 2018-04-24 19:20:49

Local clock offset: 1.735 ms

Remote clock offset: -1.164 ms

Run 7: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of PCC-Expr

Start at: 2018-04-24 19:43:09

End at: 2018-04-24 19:43:39

Local clock offset: -2.563 ms

Remote clock offset: -0.78 ms

Run 8: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of PCC-Expr

Start at: 2018-04-24 20:06:00

End at: 2018-04-24 20:06:30

Local clock offset: 3.109 ms

Remote clock offset: -0.735 ms

Run 9: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of PCC-Expr

Start at: 2018-04-24 20:29:09

End at: 2018-04-24 20:29:39

Local clock offset: 5.113 ms

Remote clock offset: -0.602 ms

Run 10: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing