

Pantheon Report

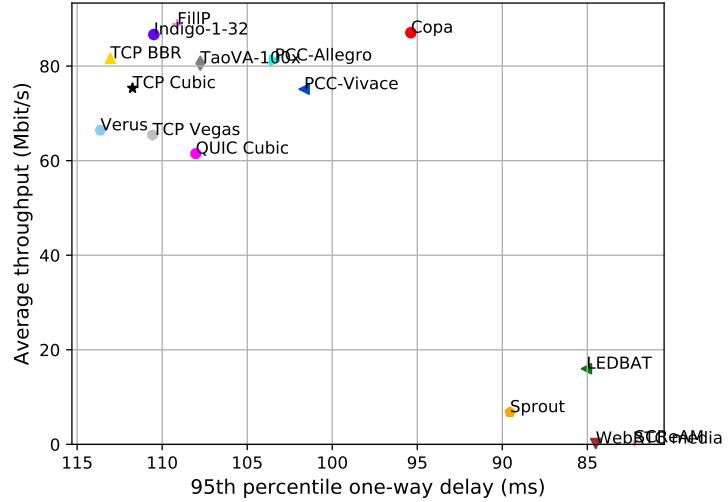
Generated at 2018-04-17 20:54:33 (UTC).
Data path: Colombia Ethernet (*remote*) → AWS Brazil 2 Ethernet (*local*).
Repeated the test of 16 congestion control schemes 10 times.
Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.
Increased UDP receive buffer to 16 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 `gps.ntp.br` and have been applied to correct the timestamps in logs.

Git summary:

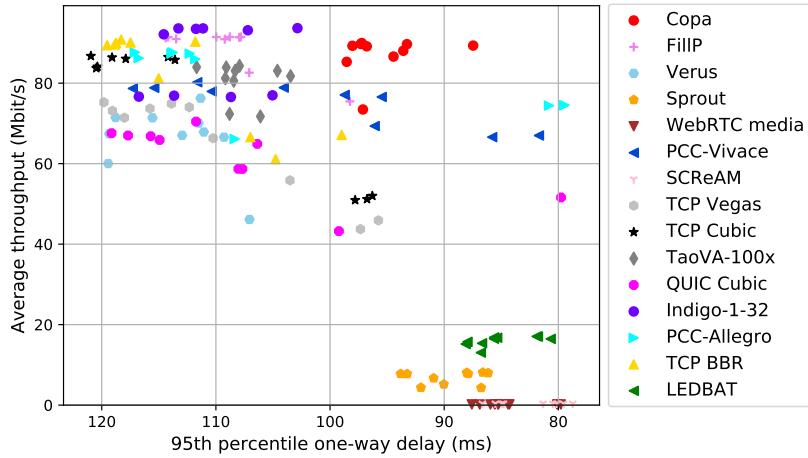
```
branch: master @ b3d6e7098641364fd3a292656a51aa81e316d0b4
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 11f8c46a2bf1dc797253db7e8ca04076272b2a44
third_party/genericCC @ d223989828276fa83a807da6e0341dc0c7b89aec
third_party/indigo @ 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 Colombia Ethernet to AWS Brazil 2 Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



test from Colombia Ethernet to AWS Brazil 2 Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows

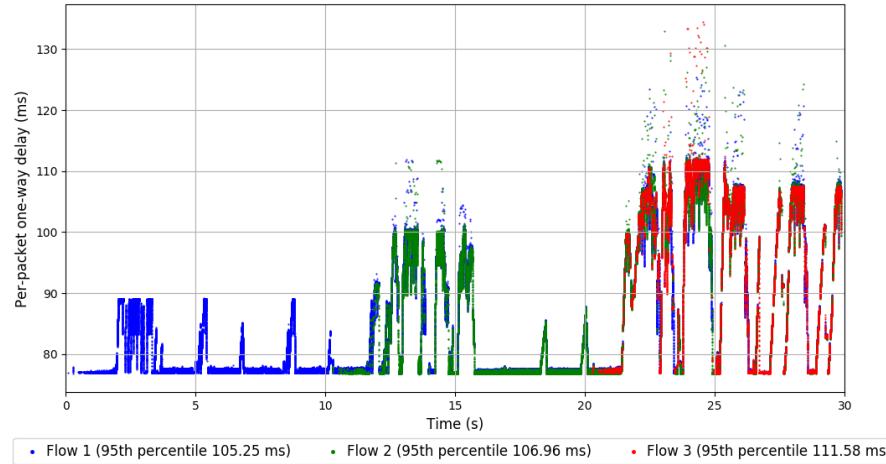
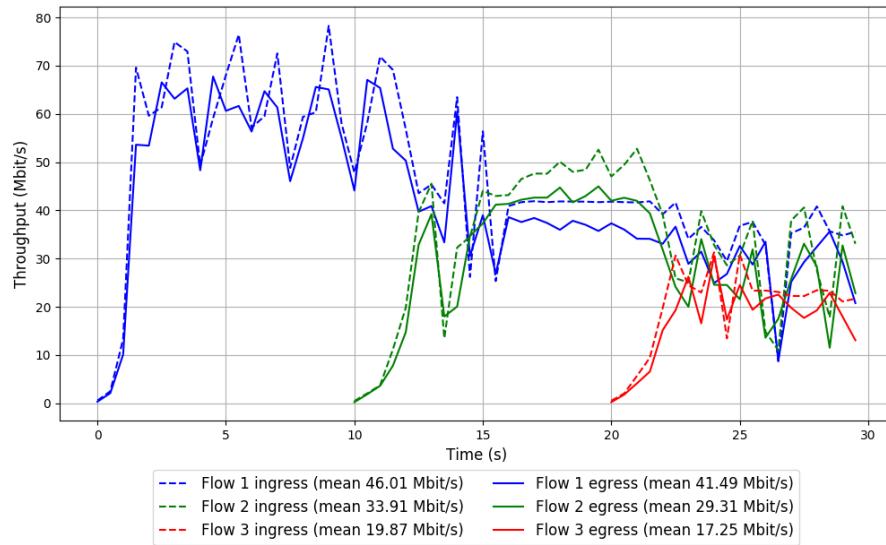


Run 1: Statistics of TCP BBR

```
Start at: 2018-04-17 13:04:01
End at: 2018-04-17 13:04:31
Local clock offset: -6.496 ms
Remote clock offset: 11.664 ms

# Below is generated by plot.py at 2018-04-17 20:35:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.59 Mbit/s
95th percentile per-packet one-way delay: 106.978 ms
Loss rate: 11.95%
-- Flow 1:
Average throughput: 41.49 Mbit/s
95th percentile per-packet one-way delay: 105.253 ms
Loss rate: 10.38%
-- Flow 2:
Average throughput: 29.31 Mbit/s
95th percentile per-packet one-way delay: 106.964 ms
Loss rate: 14.34%
-- Flow 3:
Average throughput: 17.25 Mbit/s
95th percentile per-packet one-way delay: 111.579 ms
Loss rate: 14.72%
```

Run 1: Report of TCP BBR — Data Link

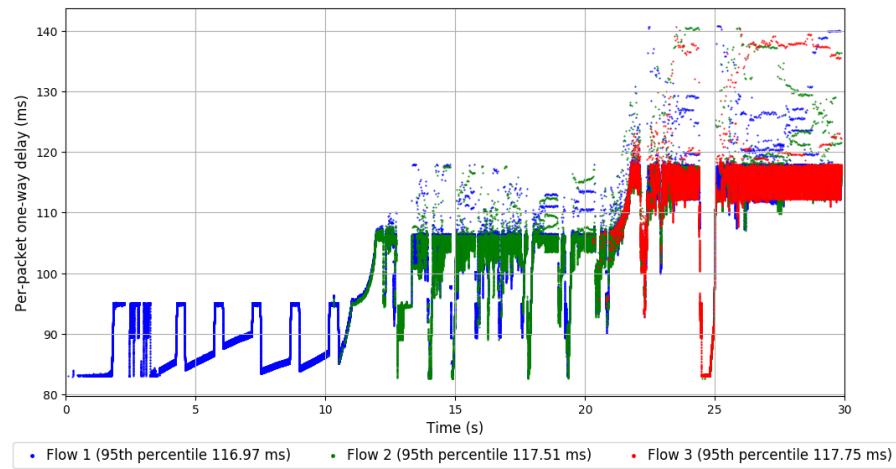
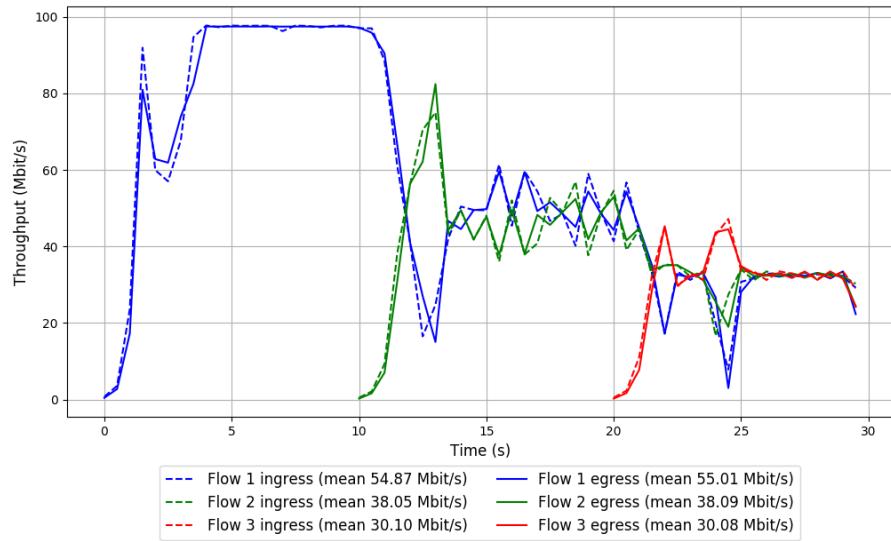


Run 2: Statistics of TCP BBR

```
Start at: 2018-04-17 13:26:45
End at: 2018-04-17 13:27:15
Local clock offset: -4.348 ms
Remote clock offset: 6.402 ms

# Below is generated by plot.py at 2018-04-17 20:35:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.10 Mbit/s
95th percentile per-packet one-way delay: 117.480 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 55.01 Mbit/s
95th percentile per-packet one-way delay: 116.965 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 38.09 Mbit/s
95th percentile per-packet one-way delay: 117.510 ms
Loss rate: 0.89%
-- Flow 3:
Average throughput: 30.08 Mbit/s
95th percentile per-packet one-way delay: 117.754 ms
Loss rate: 2.24%
```

Run 2: Report of TCP BBR — Data Link

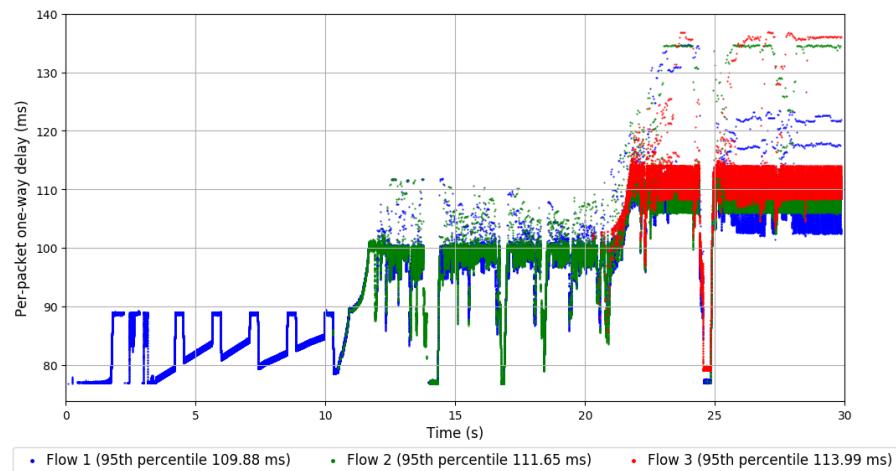
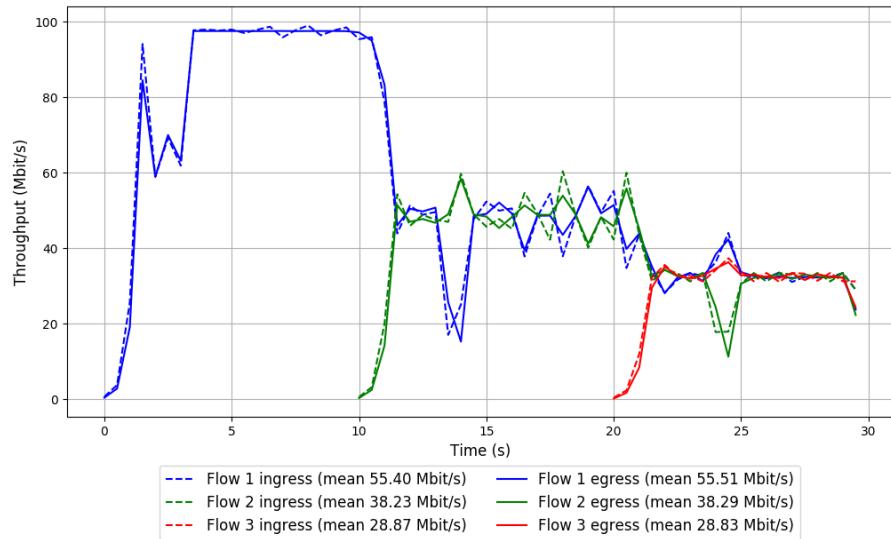


Run 3: Statistics of TCP BBR

```
Start at: 2018-04-17 13:49:04
End at: 2018-04-17 13:49:34
Local clock offset: -2.467 ms
Remote clock offset: 11.958 ms

# Below is generated by plot.py at 2018-04-17 20:35:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.32 Mbit/s
95th percentile per-packet one-way delay: 111.798 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 55.51 Mbit/s
95th percentile per-packet one-way delay: 109.879 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 38.29 Mbit/s
95th percentile per-packet one-way delay: 111.646 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 28.83 Mbit/s
95th percentile per-packet one-way delay: 113.994 ms
Loss rate: 2.36%
```

Run 3: Report of TCP BBR — Data Link

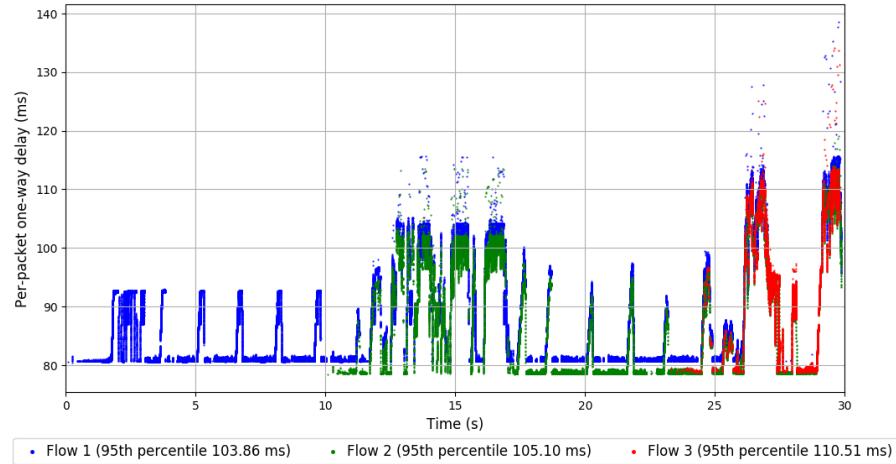
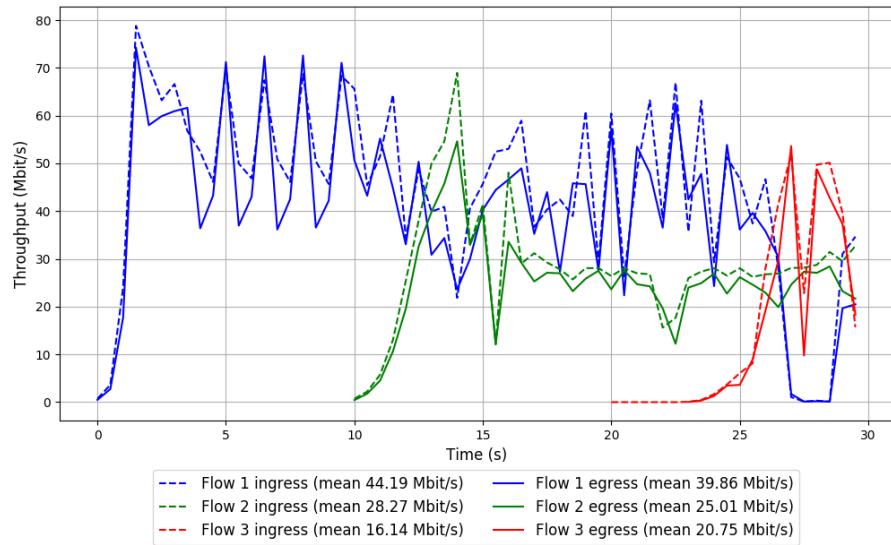


Run 4: Statistics of TCP BBR

```
Start at: 2018-04-17 14:11:20
End at: 2018-04-17 14:11:50
Local clock offset: -5.098 ms
Remote clock offset: 10.247 ms

# Below is generated by plot.py at 2018-04-17 20:35:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 61.12 Mbit/s
95th percentile per-packet one-way delay: 104.772 ms
Loss rate: 11.10%
-- Flow 1:
Average throughput: 39.86 Mbit/s
95th percentile per-packet one-way delay: 103.861 ms
Loss rate: 10.33%
-- Flow 2:
Average throughput: 25.01 Mbit/s
95th percentile per-packet one-way delay: 105.101 ms
Loss rate: 12.31%
-- Flow 3:
Average throughput: 20.75 Mbit/s
95th percentile per-packet one-way delay: 110.513 ms
Loss rate: 13.31%
```

Run 4: Report of TCP BBR — Data Link

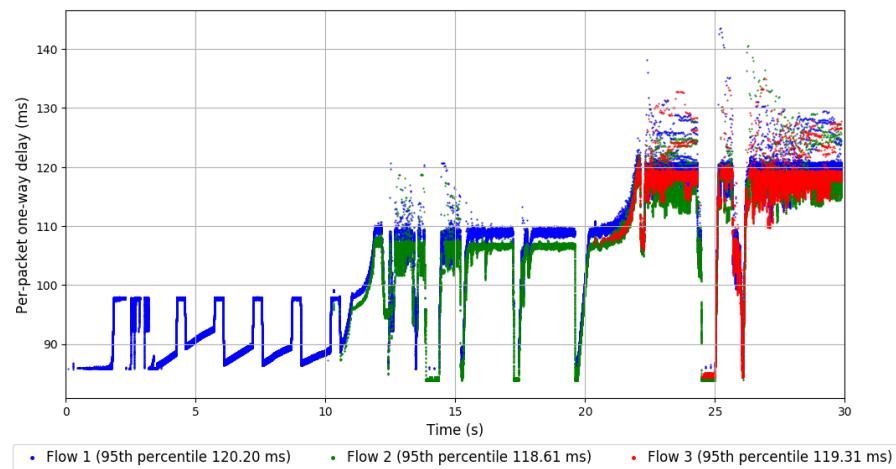
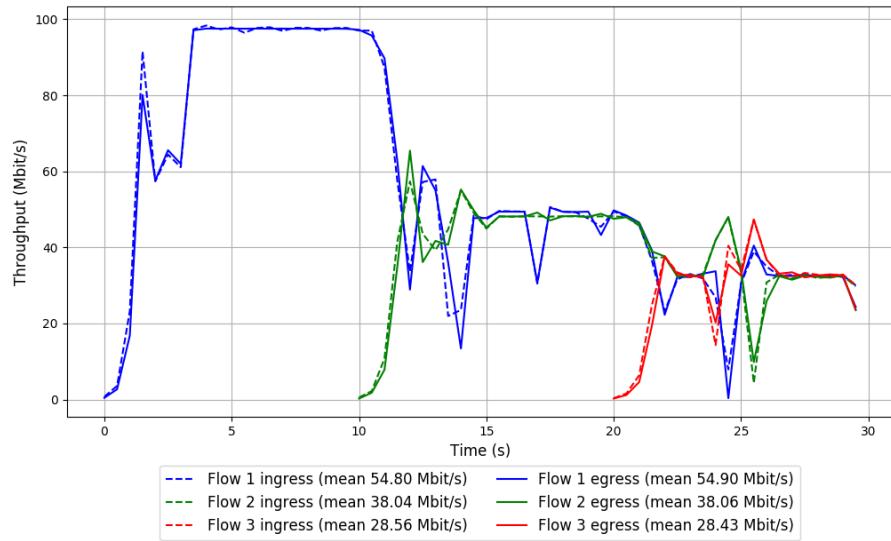


Run 5: Statistics of TCP BBR

```
Start at: 2018-04-17 14:33:31
End at: 2018-04-17 14:34:01
Local clock offset: -5.735 ms
Remote clock offset: 5.019 ms

# Below is generated by plot.py at 2018-04-17 20:35:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.45 Mbit/s
95th percentile per-packet one-way delay: 119.529 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 54.90 Mbit/s
95th percentile per-packet one-way delay: 120.198 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 38.06 Mbit/s
95th percentile per-packet one-way delay: 118.612 ms
Loss rate: 0.90%
-- Flow 3:
Average throughput: 28.43 Mbit/s
95th percentile per-packet one-way delay: 119.311 ms
Loss rate: 2.51%
```

Run 5: Report of TCP BBR — Data Link

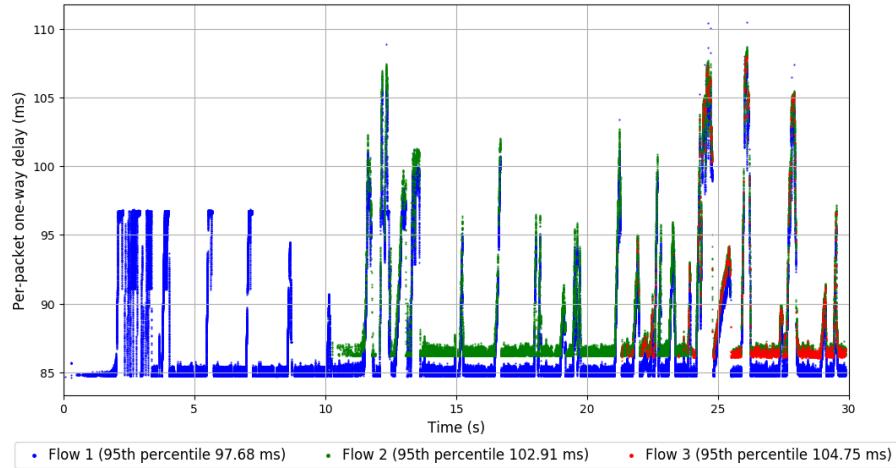
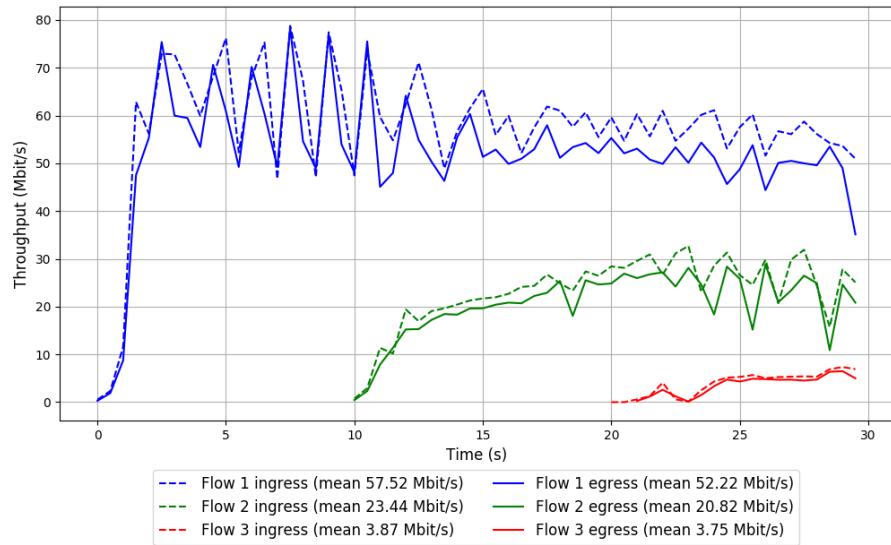


Run 6: Statistics of TCP BBR

```
Start at: 2018-04-17 14:55:57
End at: 2018-04-17 14:56:27
Local clock offset: -4.653 ms
Remote clock offset: 4.633 ms

# Below is generated by plot.py at 2018-04-17 20:35:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 67.14 Mbit/s
95th percentile per-packet one-way delay: 98.982 ms
Loss rate: 10.25%
-- Flow 1:
Average throughput: 52.22 Mbit/s
95th percentile per-packet one-way delay: 97.677 ms
Loss rate: 9.75%
-- Flow 2:
Average throughput: 20.82 Mbit/s
95th percentile per-packet one-way delay: 102.905 ms
Loss rate: 11.68%
-- Flow 3:
Average throughput: 3.75 Mbit/s
95th percentile per-packet one-way delay: 104.747 ms
Loss rate: 15.03%
```

Run 6: Report of TCP BBR — Data Link

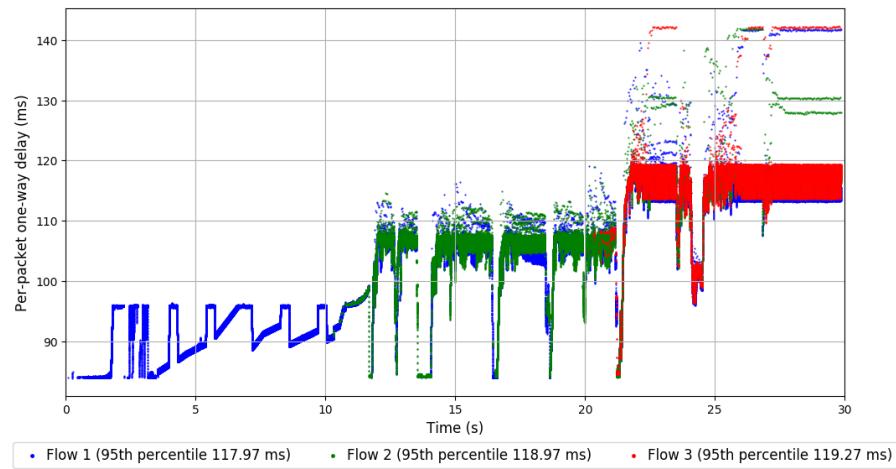
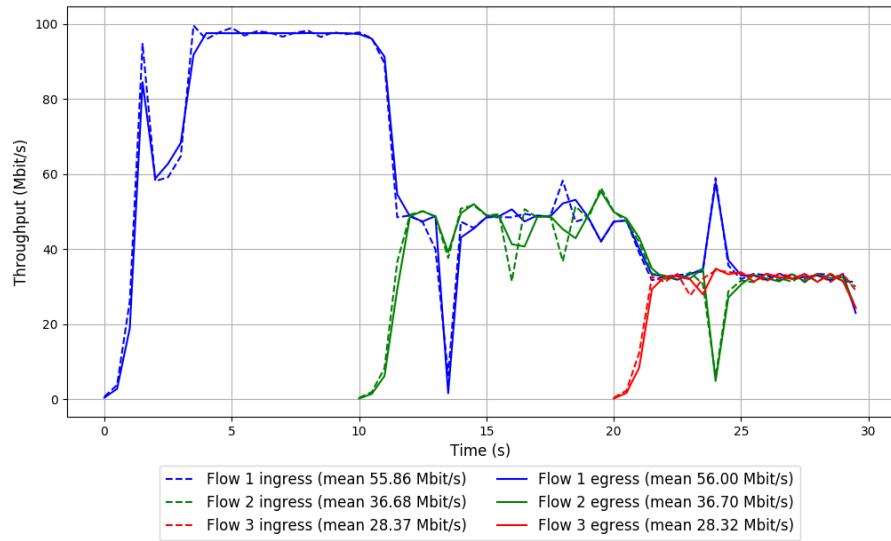


Run 7: Statistics of TCP BBR

```
Start at: 2018-04-17 15:18:13
End at: 2018-04-17 15:18:43
Local clock offset: -6.253 ms
Remote clock offset: 6.64 ms

# Below is generated by plot.py at 2018-04-17 20:35:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.59 Mbit/s
95th percentile per-packet one-way delay: 118.868 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 56.00 Mbit/s
95th percentile per-packet one-way delay: 117.968 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 36.70 Mbit/s
95th percentile per-packet one-way delay: 118.973 ms
Loss rate: 0.92%
-- Flow 3:
Average throughput: 28.32 Mbit/s
95th percentile per-packet one-way delay: 119.266 ms
Loss rate: 2.38%
```

Run 7: Report of TCP BBR — Data Link

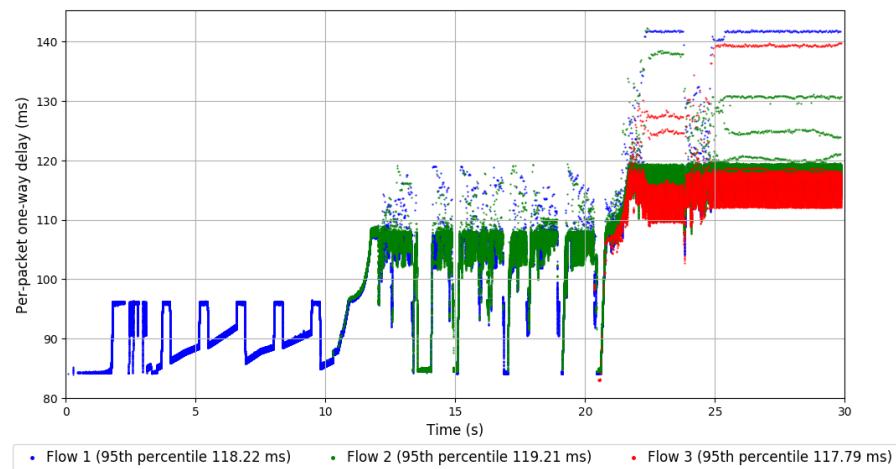
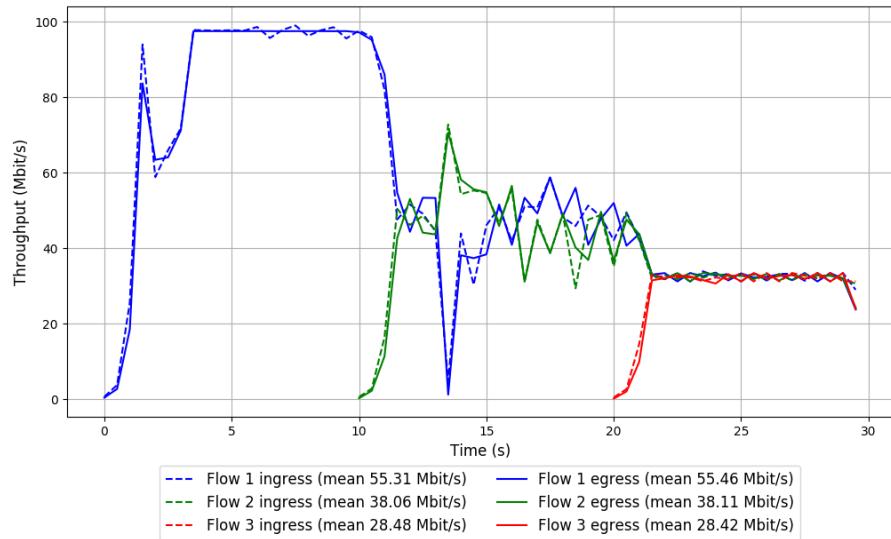


Run 8: Statistics of TCP BBR

```
Start at: 2018-04-17 15:40:33
End at: 2018-04-17 15:41:03
Local clock offset: -5.636 ms
Remote clock offset: 6.42 ms

# Below is generated by plot.py at 2018-04-17 20:35:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.00 Mbit/s
95th percentile per-packet one-way delay: 118.755 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 55.46 Mbit/s
95th percentile per-packet one-way delay: 118.217 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 38.11 Mbit/s
95th percentile per-packet one-way delay: 119.207 ms
Loss rate: 0.90%
-- Flow 3:
Average throughput: 28.42 Mbit/s
95th percentile per-packet one-way delay: 117.787 ms
Loss rate: 2.48%
```

Run 8: Report of TCP BBR — Data Link

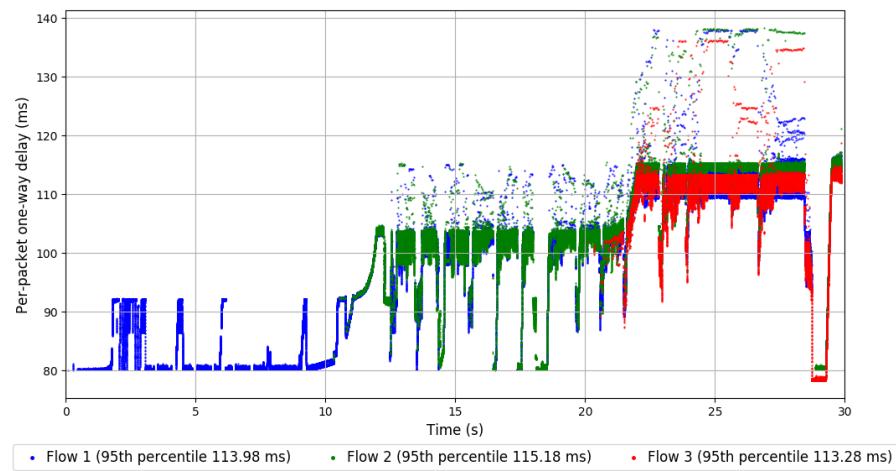
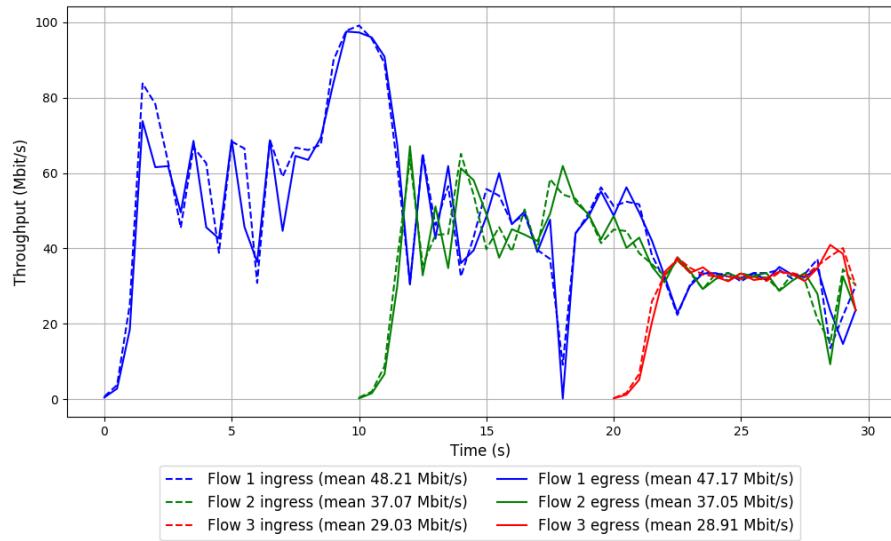


Run 9: Statistics of TCP BBR

```
Start at: 2018-04-17 16:02:52
End at: 2018-04-17 16:03:22
Local clock offset: -6.356 ms
Remote clock offset: 8.663 ms

# Below is generated by plot.py at 2018-04-17 20:36:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.21 Mbit/s
95th percentile per-packet one-way delay: 115.015 ms
Loss rate: 2.17%
-- Flow 1:
Average throughput: 47.17 Mbit/s
95th percentile per-packet one-way delay: 113.984 ms
Loss rate: 2.75%
-- Flow 2:
Average throughput: 37.05 Mbit/s
95th percentile per-packet one-way delay: 115.180 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 28.91 Mbit/s
95th percentile per-packet one-way delay: 113.282 ms
Loss rate: 2.39%
```

Run 9: Report of TCP BBR — Data Link

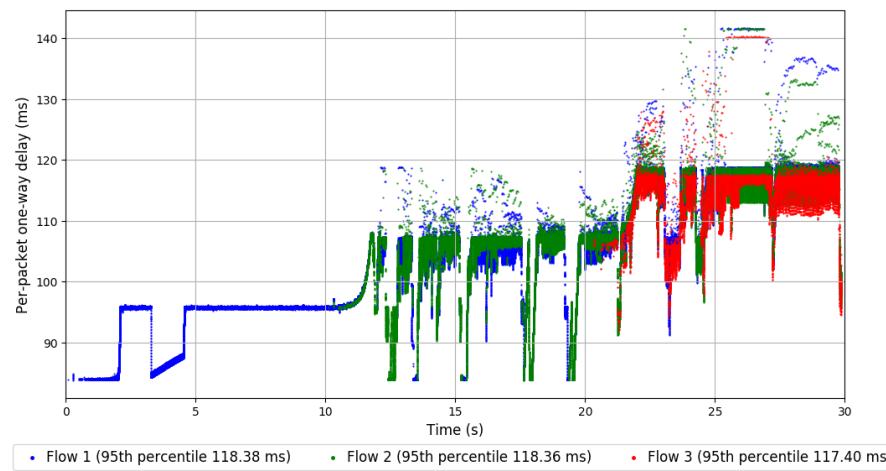
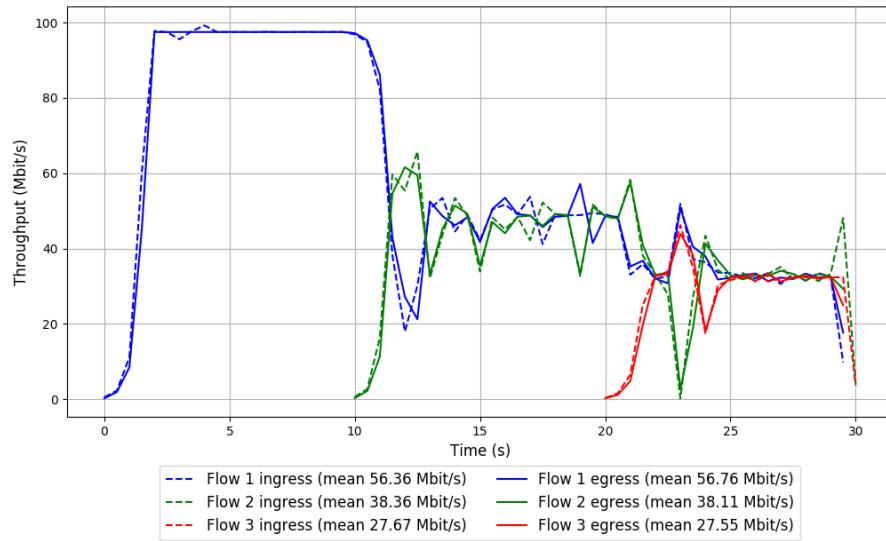


Run 10: Statistics of TCP BBR

```
Start at: 2018-04-17 16:25:16
End at: 2018-04-17 16:25:46
Local clock offset: -4.492 ms
Remote clock offset: 4.813 ms

# Below is generated by plot.py at 2018-04-17 20:36:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.84 Mbit/s
95th percentile per-packet one-way delay: 118.304 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 56.76 Mbit/s
95th percentile per-packet one-way delay: 118.384 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 38.11 Mbit/s
95th percentile per-packet one-way delay: 118.361 ms
Loss rate: 1.99%
-- Flow 3:
Average throughput: 27.55 Mbit/s
95th percentile per-packet one-way delay: 117.397 ms
Loss rate: 3.35%
```

Run 10: Report of TCP BBR — Data Link

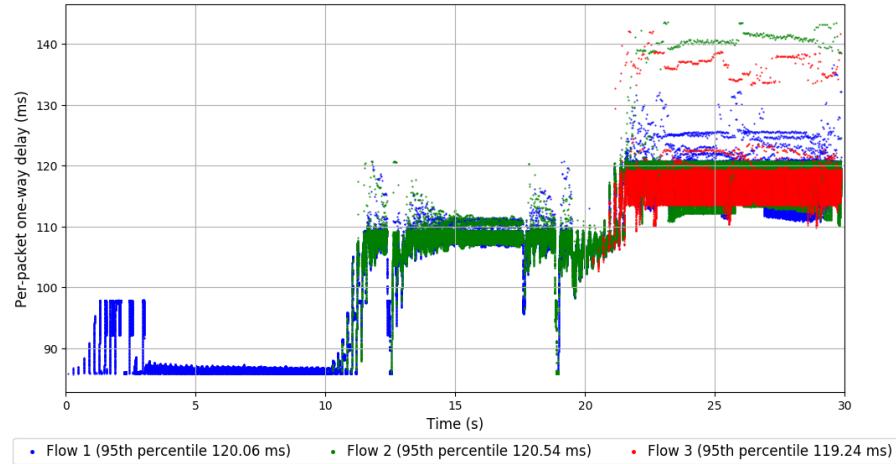
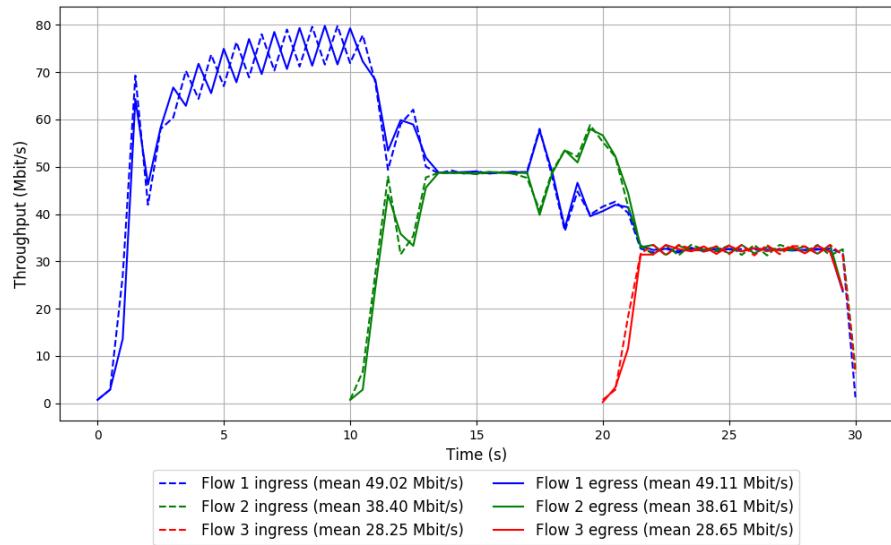


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2018-04-17 13:09:24
End at: 2018-04-17 13:09:54
Local clock offset: -5.734 ms
Remote clock offset: 5.076 ms

# Below is generated by plot.py at 2018-04-17 20:36:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.10 Mbit/s
95th percentile per-packet one-way delay: 120.380 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 49.11 Mbit/s
95th percentile per-packet one-way delay: 120.061 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 38.61 Mbit/s
95th percentile per-packet one-way delay: 120.536 ms
Loss rate: 1.46%
-- Flow 3:
Average throughput: 28.65 Mbit/s
95th percentile per-packet one-way delay: 119.242 ms
Loss rate: 3.81%
```

Run 1: Report of TCP Cubic — Data Link

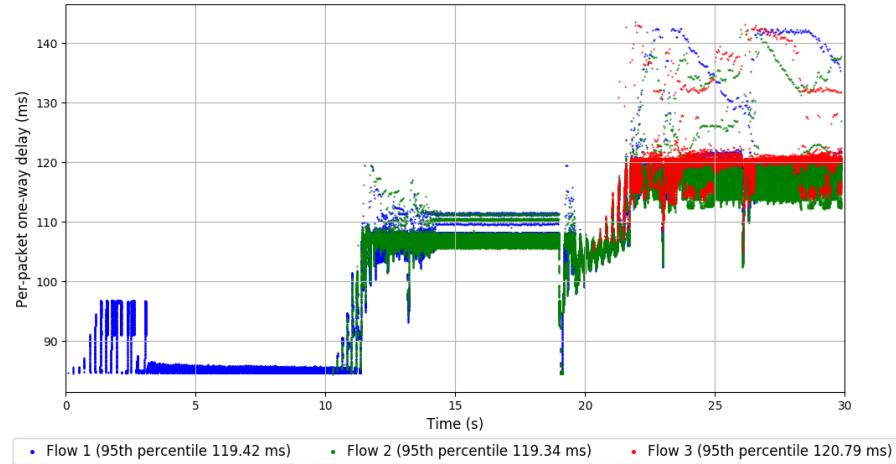
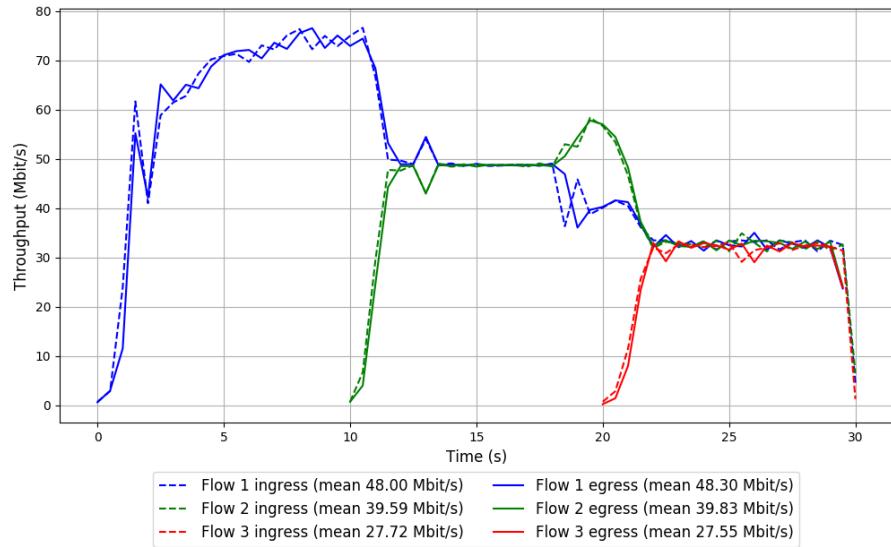


Run 2: Statistics of TCP Cubic

```
Start at: 2018-04-17 13:31:58
End at: 2018-04-17 13:32:28
Local clock offset: -2.573 ms
Remote clock offset: 5.787 ms

# Below is generated by plot.py at 2018-04-17 20:36:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.72 Mbit/s
95th percentile per-packet one-way delay: 120.481 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 48.30 Mbit/s
95th percentile per-packet one-way delay: 119.419 ms
Loss rate: 0.74%
-- Flow 2:
Average throughput: 39.83 Mbit/s
95th percentile per-packet one-way delay: 119.342 ms
Loss rate: 1.36%
-- Flow 3:
Average throughput: 27.55 Mbit/s
95th percentile per-packet one-way delay: 120.789 ms
Loss rate: 3.03%
```

Run 2: Report of TCP Cubic — Data Link

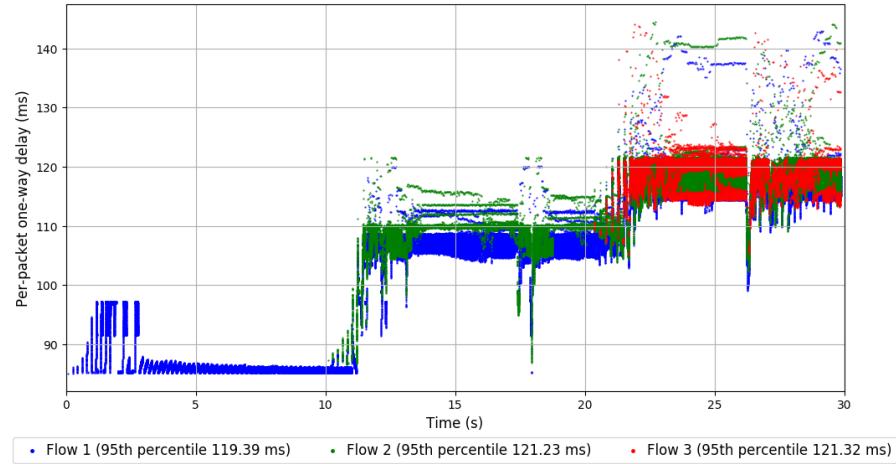
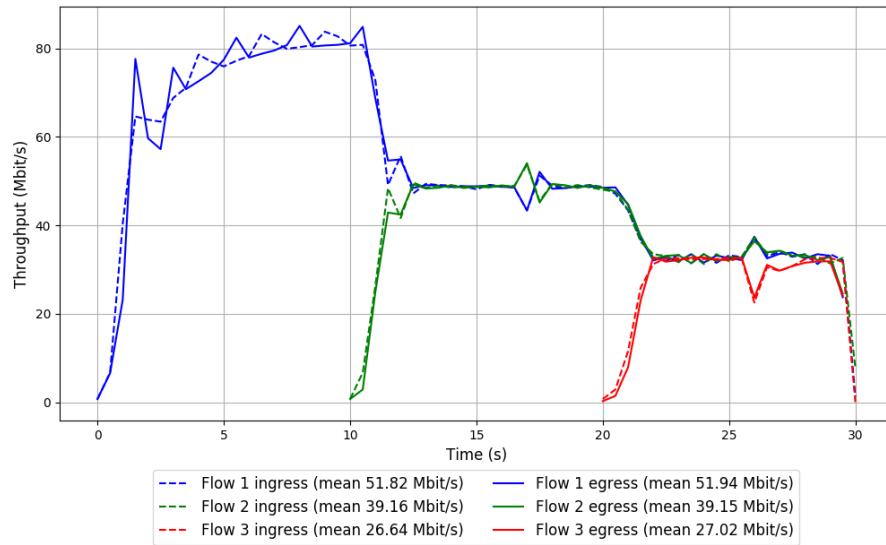


Run 3: Statistics of TCP Cubic

```
Start at: 2018-04-17 13:54:17
End at: 2018-04-17 13:54:47
Local clock offset: -0.617 ms
Remote clock offset: 6.261 ms

# Below is generated by plot.py at 2018-04-17 20:36:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.76 Mbit/s
95th percentile per-packet one-way delay: 120.953 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 51.94 Mbit/s
95th percentile per-packet one-way delay: 119.393 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 39.15 Mbit/s
95th percentile per-packet one-way delay: 121.232 ms
Loss rate: 1.44%
-- Flow 3:
Average throughput: 27.02 Mbit/s
95th percentile per-packet one-way delay: 121.318 ms
Loss rate: 2.97%
```

Run 3: Report of TCP Cubic — Data Link

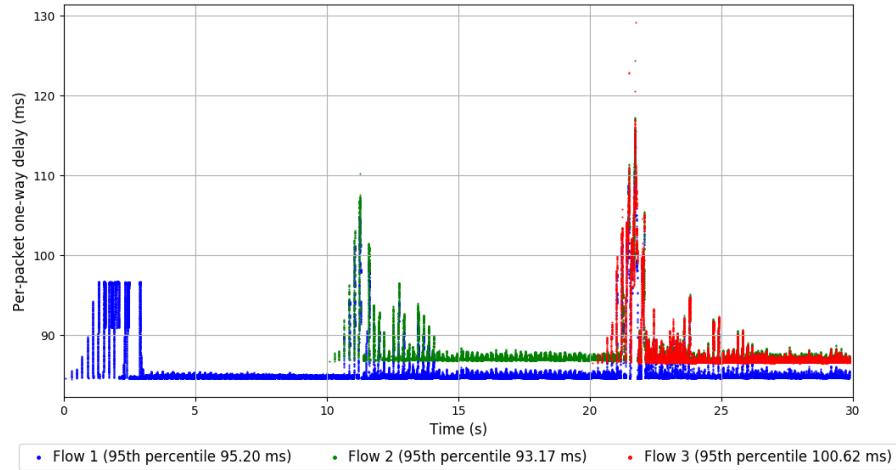
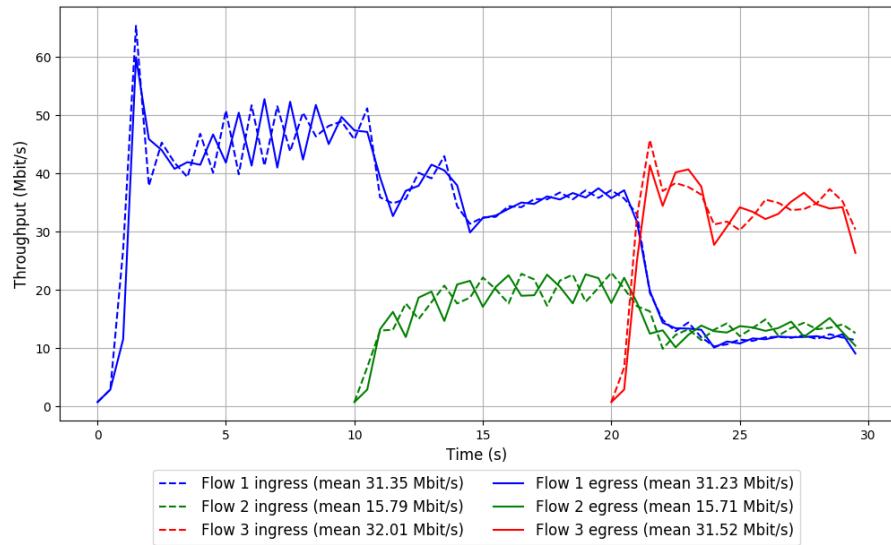


Run 4: Statistics of TCP Cubic

```
Start at: 2018-04-17 14:16:30
End at: 2018-04-17 14:17:00
Local clock offset: -4.679 ms
Remote clock offset: 5.393 ms

# Below is generated by plot.py at 2018-04-17 20:36:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 51.99 Mbit/s
95th percentile per-packet one-way delay: 96.294 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 31.23 Mbit/s
95th percentile per-packet one-way delay: 95.201 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 15.71 Mbit/s
95th percentile per-packet one-way delay: 93.168 ms
Loss rate: 1.40%
-- Flow 3:
Average throughput: 31.52 Mbit/s
95th percentile per-packet one-way delay: 100.625 ms
Loss rate: 3.33%
```

Run 4: Report of TCP Cubic — Data Link

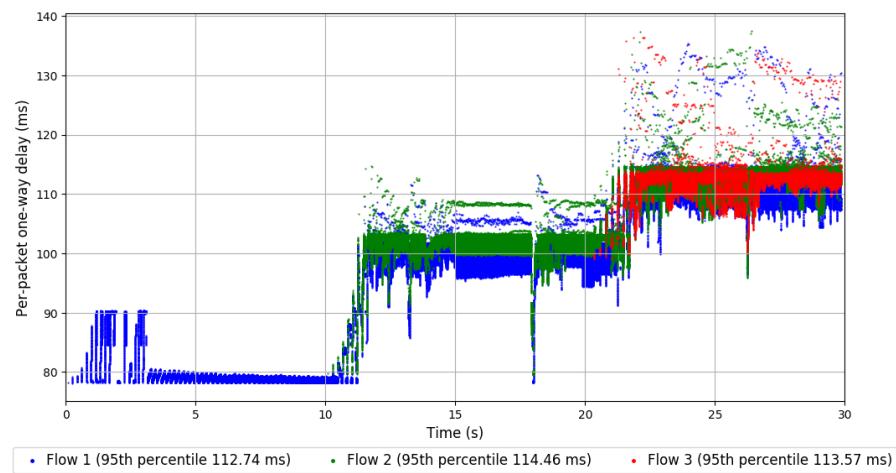
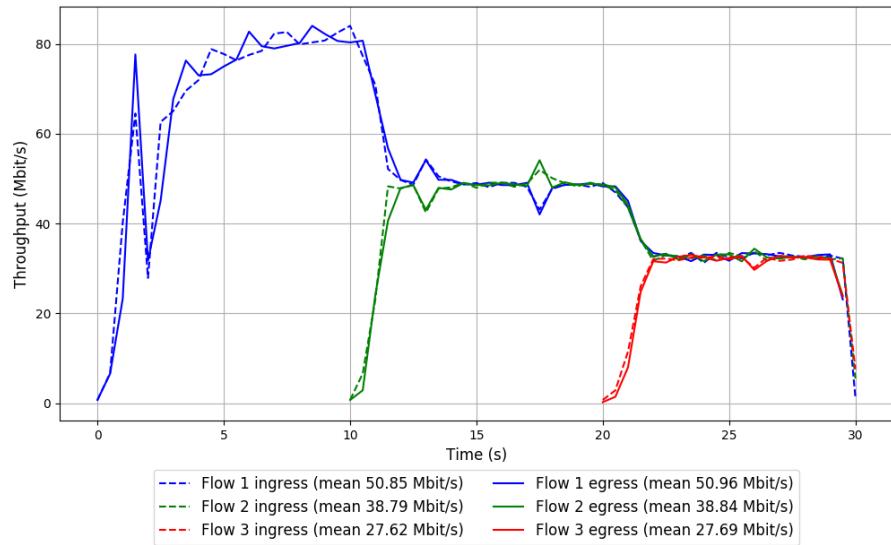


Run 5: Statistics of TCP Cubic

```
Start at: 2018-04-17 14:38:47
End at: 2018-04-17 14:39:17
Local clock offset: -5.648 ms
Remote clock offset: 10.566 ms

# Below is generated by plot.py at 2018-04-17 20:36:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.80 Mbit/s
95th percentile per-packet one-way delay: 113.588 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 50.96 Mbit/s
95th percentile per-packet one-way delay: 112.744 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 38.84 Mbit/s
95th percentile per-packet one-way delay: 114.460 ms
Loss rate: 1.34%
-- Flow 3:
Average throughput: 27.69 Mbit/s
95th percentile per-packet one-way delay: 113.570 ms
Loss rate: 4.09%
```

Run 5: Report of TCP Cubic — Data Link

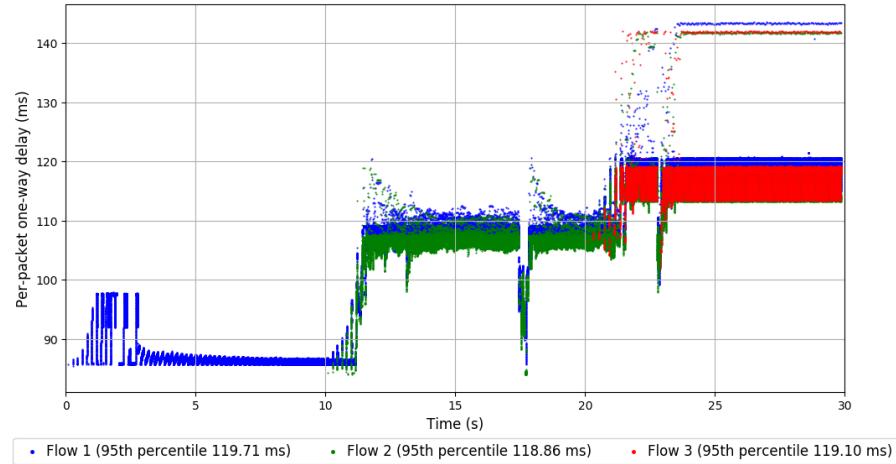
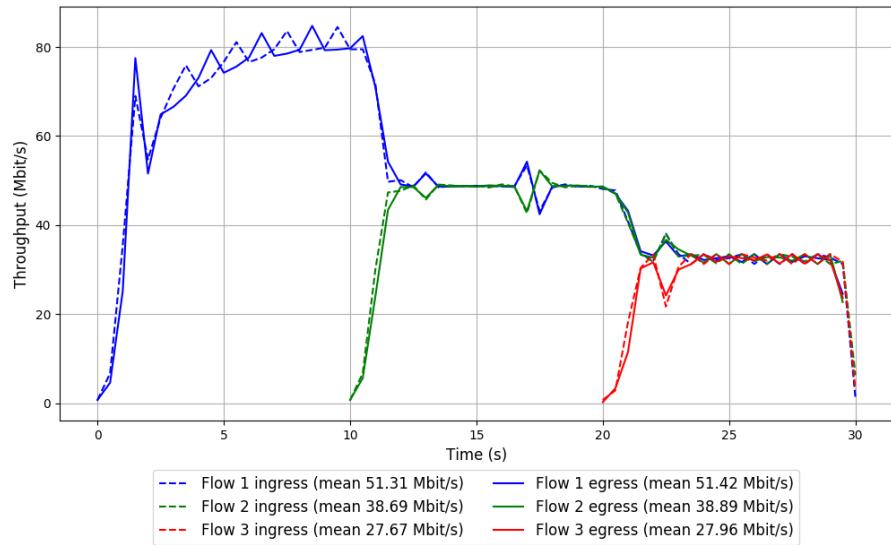


Run 6: Statistics of TCP Cubic

```
Start at: 2018-04-17 15:01:12
End at: 2018-04-17 15:01:42
Local clock offset: -5.411 ms
Remote clock offset: 4.548 ms

# Below is generated by plot.py at 2018-04-17 20:36:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.38 Mbit/s
95th percentile per-packet one-way delay: 119.097 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 51.42 Mbit/s
95th percentile per-packet one-way delay: 119.711 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 38.89 Mbit/s
95th percentile per-packet one-way delay: 118.860 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 27.96 Mbit/s
95th percentile per-packet one-way delay: 119.102 ms
Loss rate: 3.42%
```

Run 6: Report of TCP Cubic — Data Link

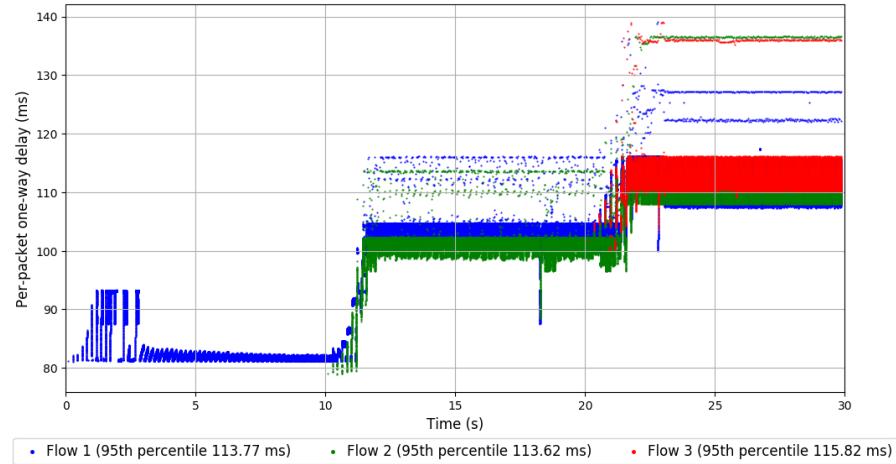
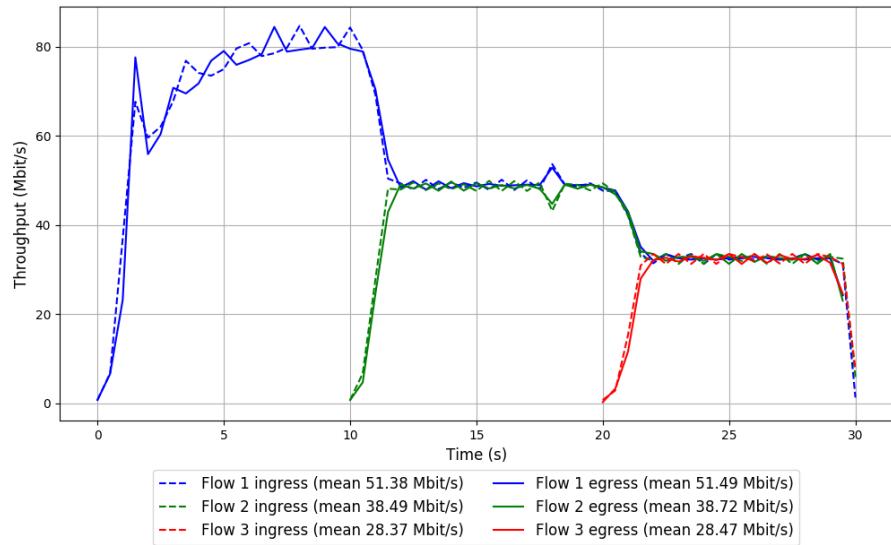


Run 7: Statistics of TCP Cubic

```
Start at: 2018-04-17 15:23:27
End at: 2018-04-17 15:23:57
Local clock offset: -5.482 ms
Remote clock offset: 10.795 ms

# Below is generated by plot.py at 2018-04-17 20:37:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.49 Mbit/s
95th percentile per-packet one-way delay: 114.188 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 51.49 Mbit/s
95th percentile per-packet one-way delay: 113.772 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 38.72 Mbit/s
95th percentile per-packet one-way delay: 113.617 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 28.47 Mbit/s
95th percentile per-packet one-way delay: 115.817 ms
Loss rate: 3.91%
```

Run 7: Report of TCP Cubic — Data Link

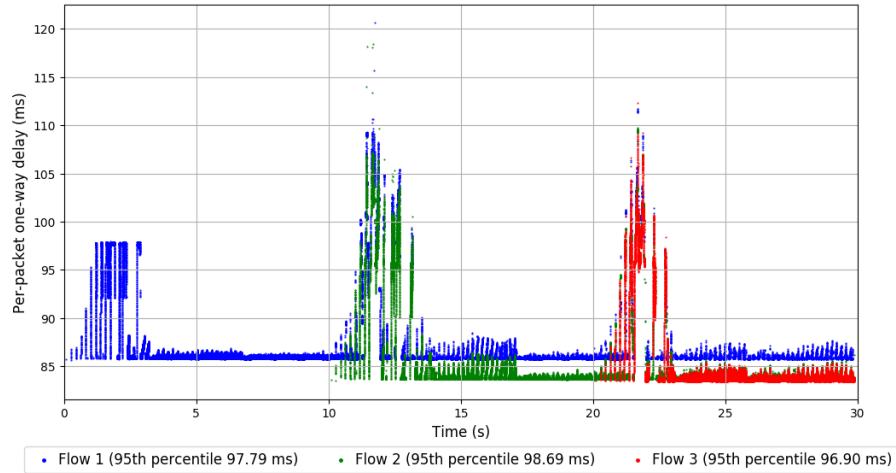
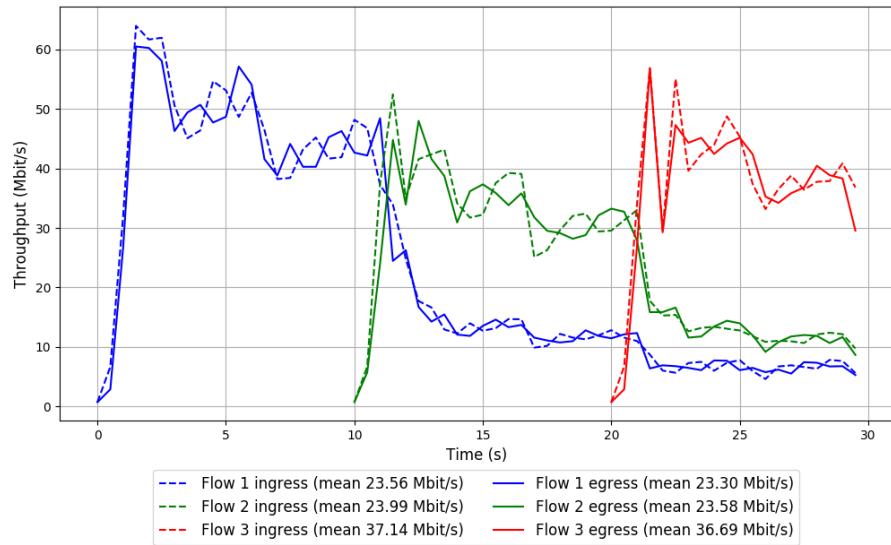


Run 8: Statistics of TCP Cubic

```
Start at: 2018-04-17 15:45:46
End at: 2018-04-17 15:46:16
Local clock offset: -4.797 ms
Remote clock offset: 5.714 ms

# Below is generated by plot.py at 2018-04-17 20:37:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 50.94 Mbit/s
95th percentile per-packet one-way delay: 97.801 ms
Loss rate: 2.26%
-- Flow 1:
Average throughput: 23.30 Mbit/s
95th percentile per-packet one-way delay: 97.793 ms
Loss rate: 1.70%
-- Flow 2:
Average throughput: 23.58 Mbit/s
95th percentile per-packet one-way delay: 98.689 ms
Loss rate: 2.55%
-- Flow 3:
Average throughput: 36.69 Mbit/s
95th percentile per-packet one-way delay: 96.900 ms
Loss rate: 2.97%
```

Run 8: Report of TCP Cubic — Data Link

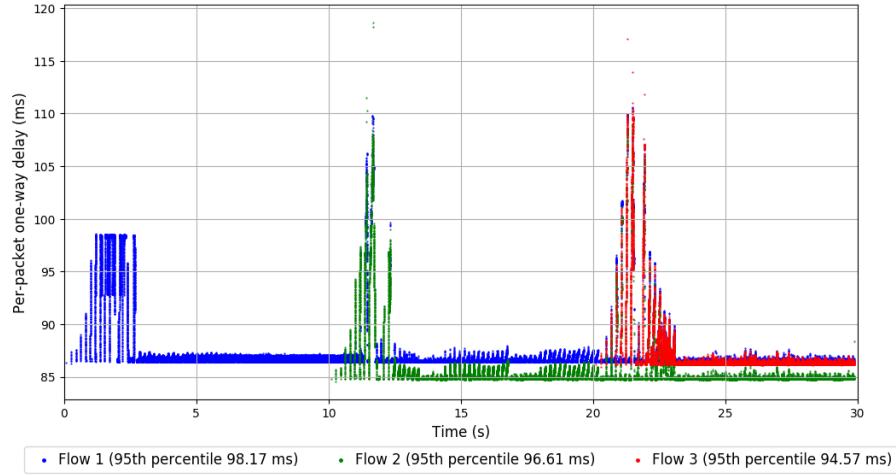
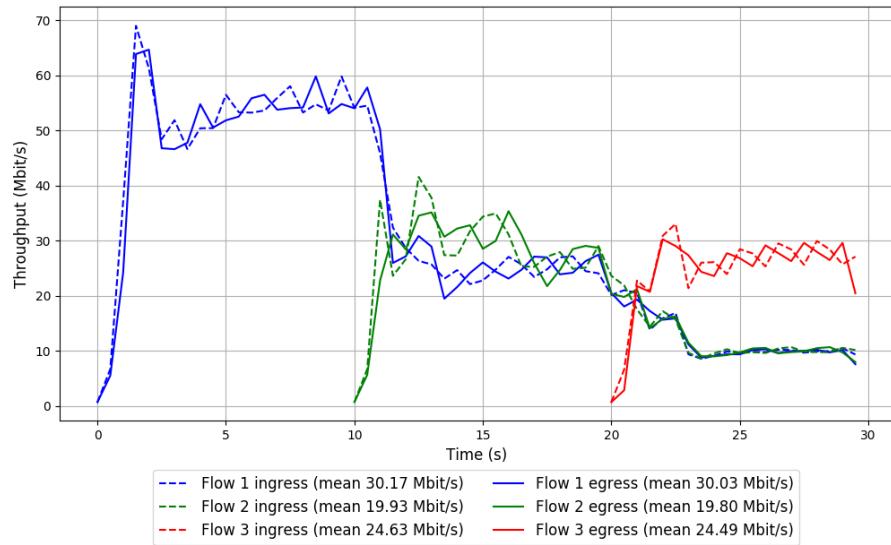


Run 9: Statistics of TCP Cubic

```
Start at: 2018-04-17 16:08:06
End at: 2018-04-17 16:08:36
Local clock offset: -4.834 ms
Remote clock offset: 3.737 ms

# Below is generated by plot.py at 2018-04-17 20:37:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 51.20 Mbit/s
95th percentile per-packet one-way delay: 96.759 ms
Loss rate: 1.34%
-- Flow 1:
Average throughput: 30.03 Mbit/s
95th percentile per-packet one-way delay: 98.165 ms
Loss rate: 1.06%
-- Flow 2:
Average throughput: 19.80 Mbit/s
95th percentile per-packet one-way delay: 96.613 ms
Loss rate: 1.48%
-- Flow 3:
Average throughput: 24.49 Mbit/s
95th percentile per-packet one-way delay: 94.573 ms
Loss rate: 2.16%
```

Run 9: Report of TCP Cubic — Data Link

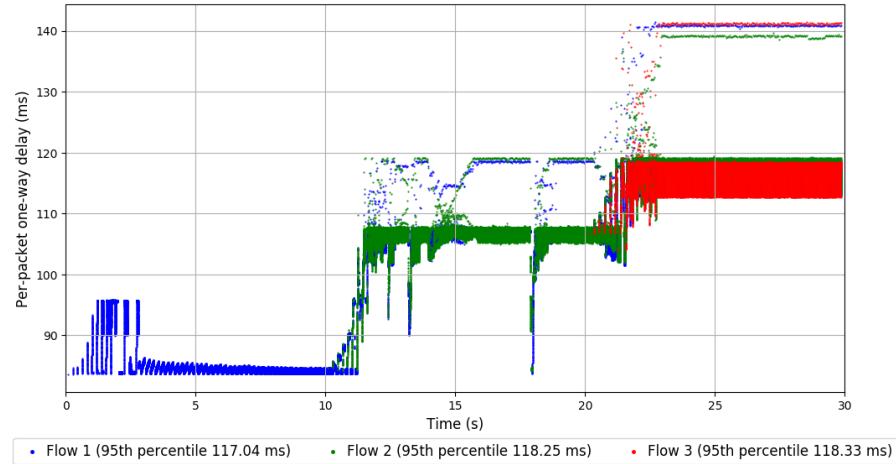
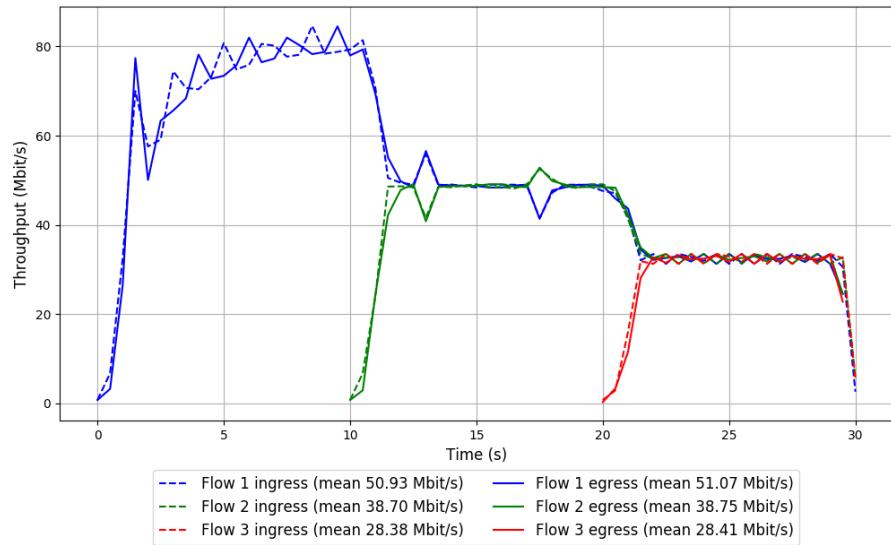


```
Run 10: Statistics of TCP Cubic
```

```
Start at: 2018-04-17 16:30:32
End at: 2018-04-17 16:31:02
Local clock offset: -3.394 ms
Remote clock offset: 3.96 ms

# Below is generated by plot.py at 2018-04-17 20:37:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.06 Mbit/s
95th percentile per-packet one-way delay: 117.898 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 51.07 Mbit/s
95th percentile per-packet one-way delay: 117.038 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 38.75 Mbit/s
95th percentile per-packet one-way delay: 118.246 ms
Loss rate: 1.32%
-- Flow 3:
Average throughput: 28.41 Mbit/s
95th percentile per-packet one-way delay: 118.327 ms
Loss rate: 3.91%
```

Run 10: Report of TCP Cubic — Data Link

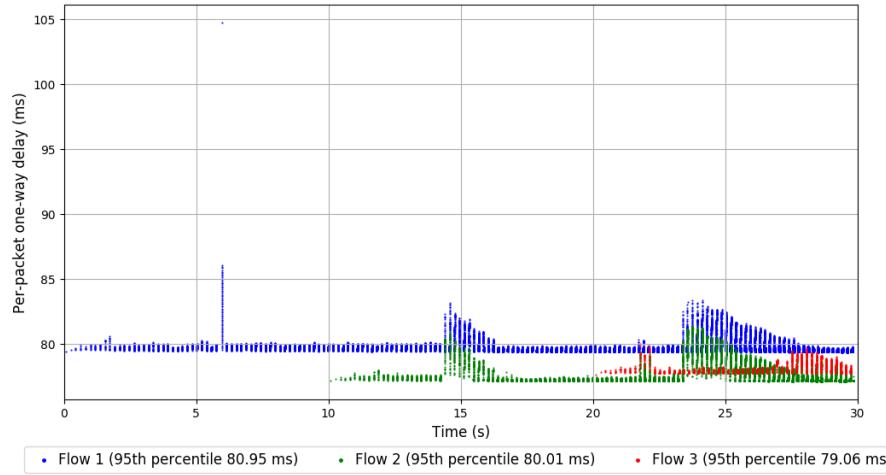
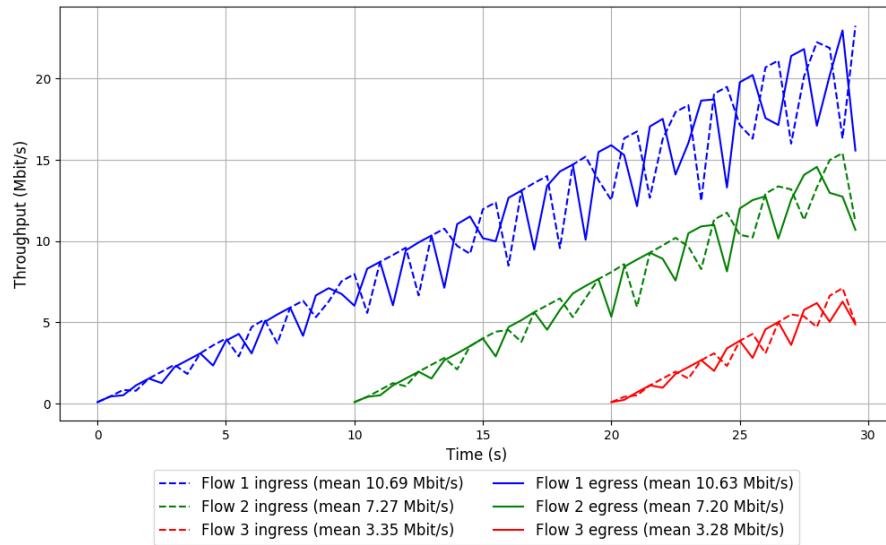


```
Run 1: Statistics of LEDBAT

Start at: 2018-04-17 13:25:28
End at: 2018-04-17 13:25:58
Local clock offset: -4.635 ms
Remote clock offset: 11.96 ms

# Below is generated by plot.py at 2018-04-17 20:37:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 16.46 Mbit/s
95th percentile per-packet one-way delay: 80.674 ms
Loss rate: 1.56%
-- Flow 1:
Average throughput: 10.63 Mbit/s
95th percentile per-packet one-way delay: 80.950 ms
Loss rate: 1.23%
-- Flow 2:
Average throughput: 7.20 Mbit/s
95th percentile per-packet one-way delay: 80.009 ms
Loss rate: 1.79%
-- Flow 3:
Average throughput: 3.28 Mbit/s
95th percentile per-packet one-way delay: 79.061 ms
Loss rate: 3.81%
```

Run 1: Report of LEDBAT — Data Link

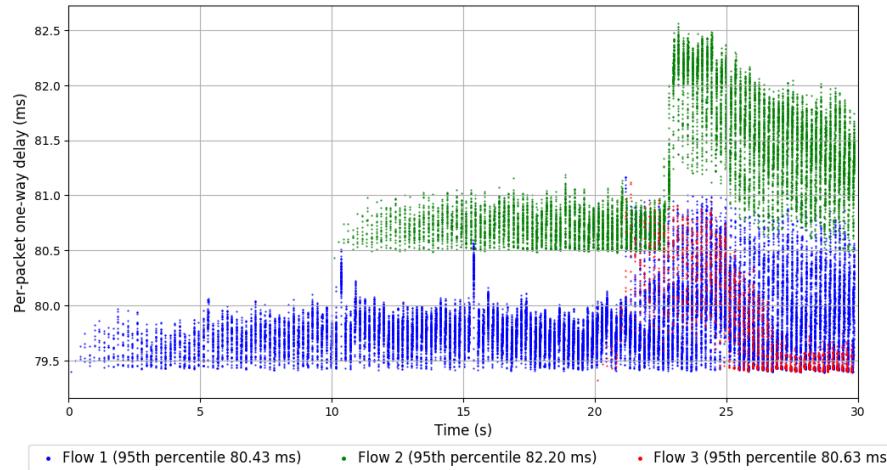
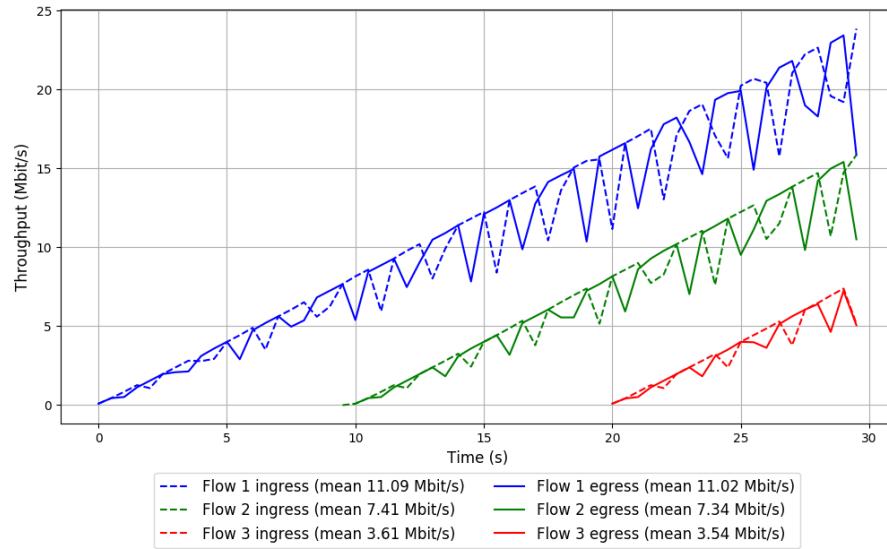


Run 2: Statistics of LEDBAT

```
Start at: 2018-04-17 13:47:48
End at: 2018-04-17 13:48:18
Local clock offset: -1.006 ms
Remote clock offset: 11.899 ms

# Below is generated by plot.py at 2018-04-17 20:37:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 17.04 Mbit/s
95th percentile per-packet one-way delay: 81.789 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 11.02 Mbit/s
95th percentile per-packet one-way delay: 80.433 ms
Loss rate: 1.20%
-- Flow 2:
Average throughput: 7.34 Mbit/s
95th percentile per-packet one-way delay: 82.201 ms
Loss rate: 1.81%
-- Flow 3:
Average throughput: 3.54 Mbit/s
95th percentile per-packet one-way delay: 80.629 ms
Loss rate: 3.67%
```

Run 2: Report of LEDBAT — Data Link

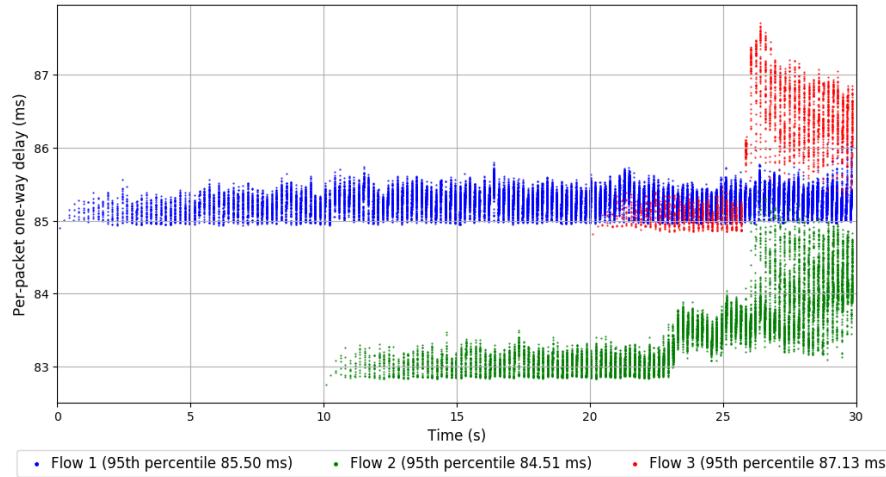
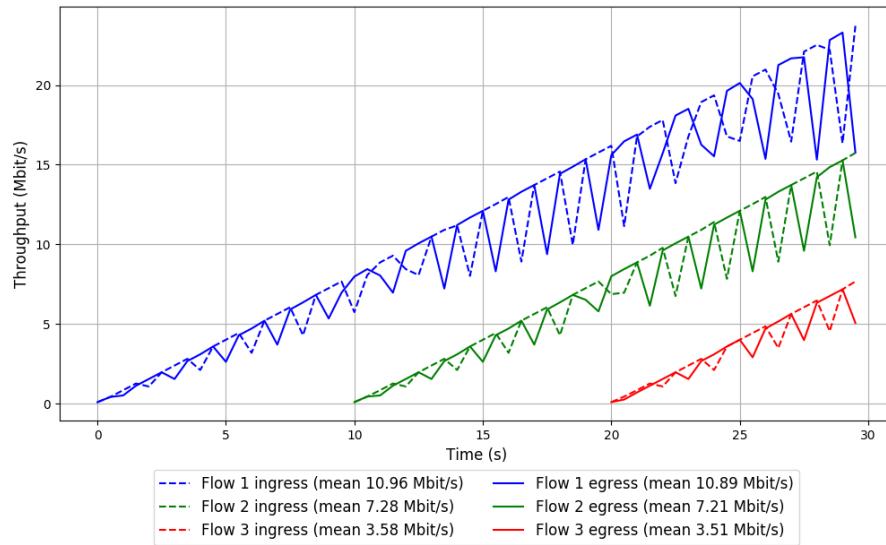


Run 3: Statistics of LEDBAT

```
Start at: 2018-04-17 14:10:03
End at: 2018-04-17 14:10:33
Local clock offset: -5.728 ms
Remote clock offset: 5.463 ms

# Below is generated by plot.py at 2018-04-17 20:37:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 16.82 Mbit/s
95th percentile per-packet one-way delay: 85.632 ms
Loss rate: 1.56%
-- Flow 1:
Average throughput: 10.89 Mbit/s
95th percentile per-packet one-way delay: 85.498 ms
Loss rate: 1.21%
-- Flow 2:
Average throughput: 7.21 Mbit/s
95th percentile per-packet one-way delay: 84.513 ms
Loss rate: 1.83%
-- Flow 3:
Average throughput: 3.51 Mbit/s
95th percentile per-packet one-way delay: 87.133 ms
Loss rate: 3.67%
```

Run 3: Report of LEDBAT — Data Link

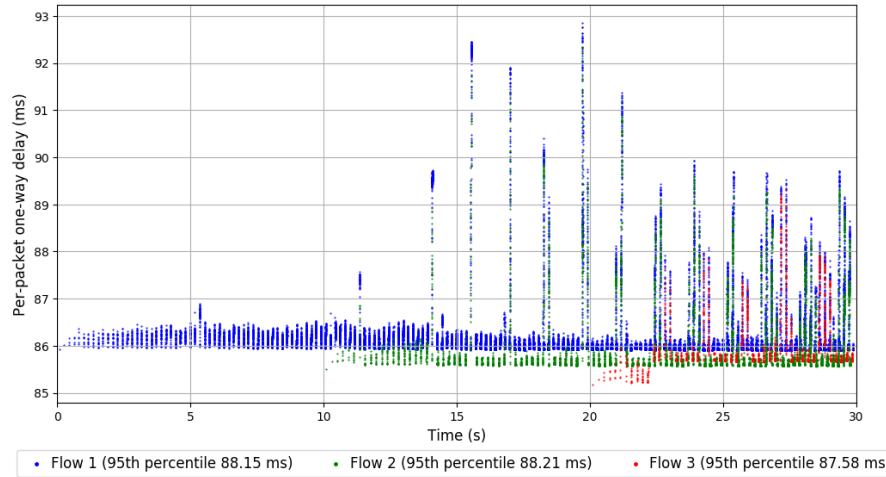
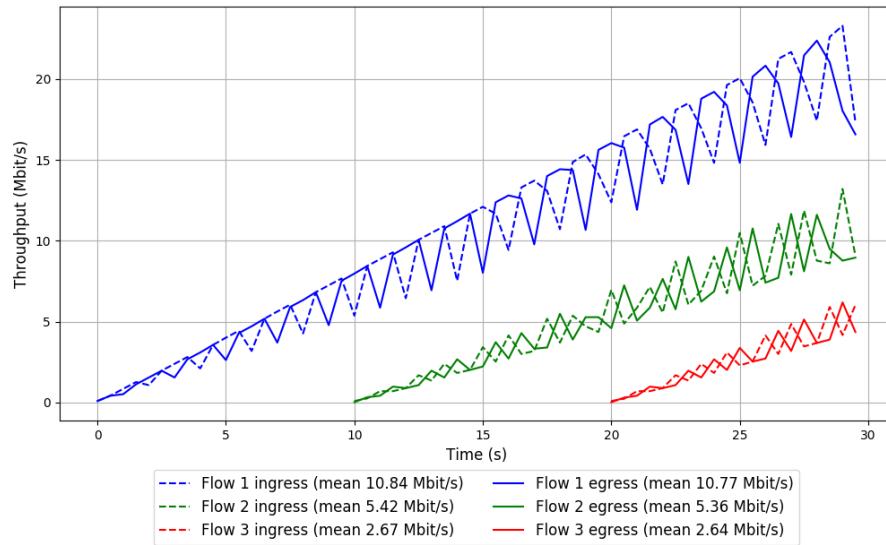


Run 4: Statistics of LEDBAT

```
Start at: 2018-04-17 14:32:14
End at: 2018-04-17 14:32:44
Local clock offset: -5.085 ms
Remote clock offset: 5.95 ms

# Below is generated by plot.py at 2018-04-17 20:37:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.18 Mbit/s
95th percentile per-packet one-way delay: 88.121 ms
Loss rate: 1.53%
-- Flow 1:
Average throughput: 10.77 Mbit/s
95th percentile per-packet one-way delay: 88.146 ms
Loss rate: 1.20%
-- Flow 2:
Average throughput: 5.36 Mbit/s
95th percentile per-packet one-way delay: 88.210 ms
Loss rate: 2.12%
-- Flow 3:
Average throughput: 2.64 Mbit/s
95th percentile per-packet one-way delay: 87.585 ms
Loss rate: 3.14%
```

Run 4: Report of LEDBAT — Data Link

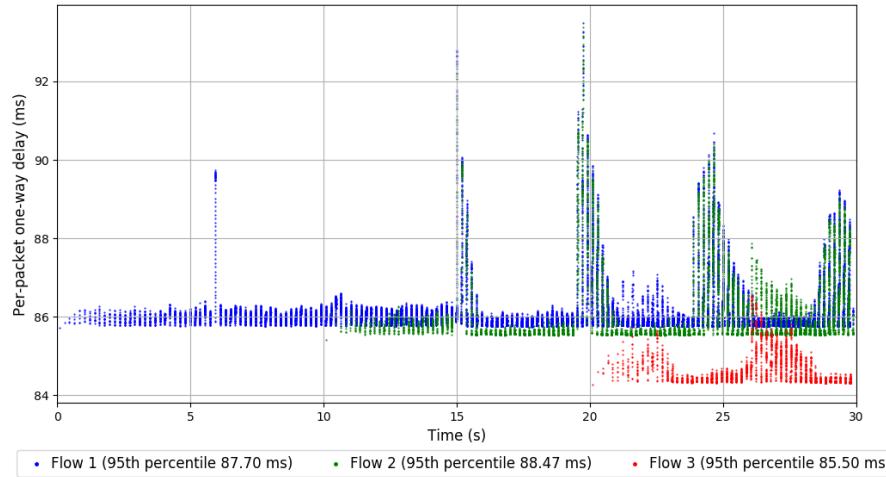
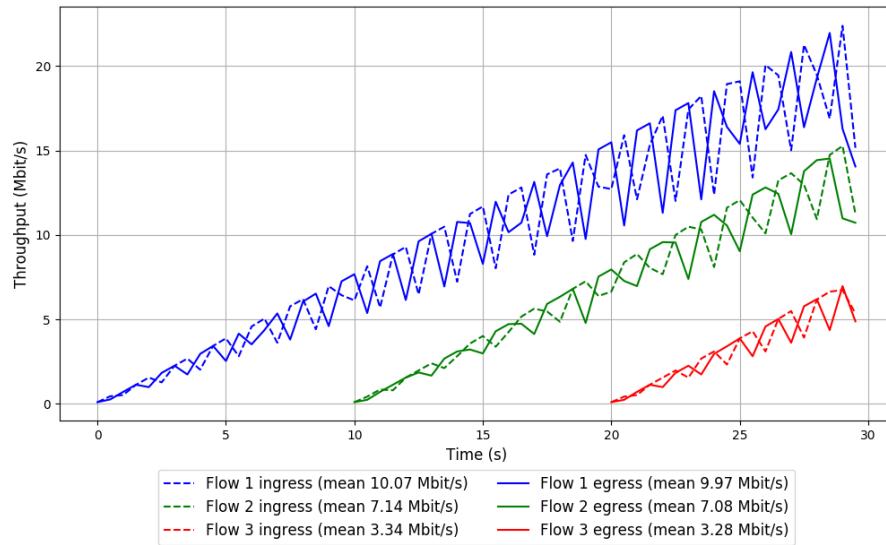


Run 5: Statistics of LEDBAT

```
Start at: 2018-04-17 14:54:40
End at: 2018-04-17 14:55:10
Local clock offset: -5.485 ms
Remote clock offset: 4.559 ms

# Below is generated by plot.py at 2018-04-17 20:37:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.74 Mbit/s
95th percentile per-packet one-way delay: 87.958 ms
Loss rate: 1.56%
-- Flow 1:
Average throughput: 9.97 Mbit/s
95th percentile per-packet one-way delay: 87.704 ms
Loss rate: 1.20%
-- Flow 2:
Average throughput: 7.08 Mbit/s
95th percentile per-packet one-way delay: 88.468 ms
Loss rate: 1.81%
-- Flow 3:
Average throughput: 3.28 Mbit/s
95th percentile per-packet one-way delay: 85.496 ms
Loss rate: 3.81%
```

Run 5: Report of LEDBAT — Data Link

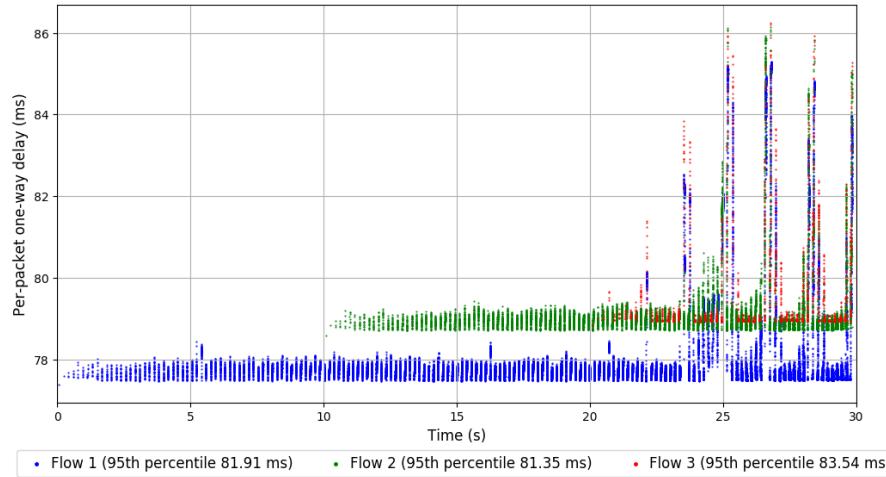
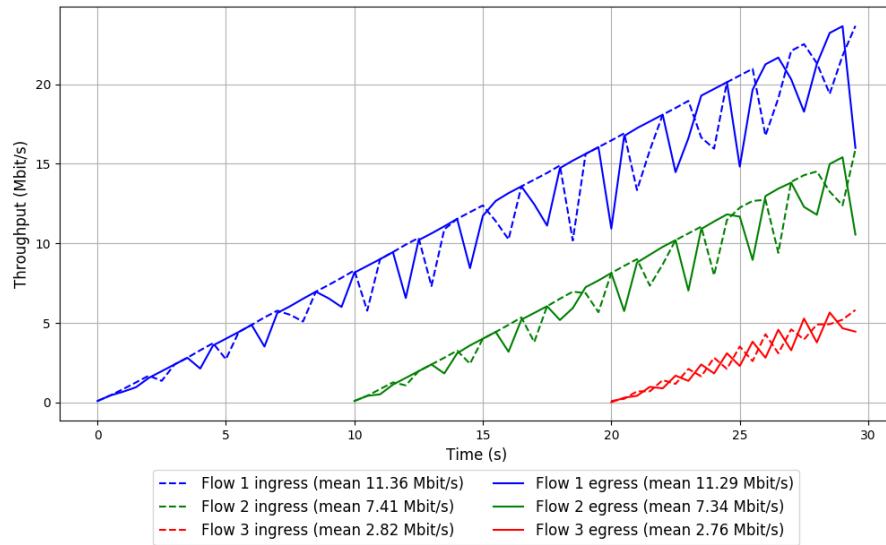


Run 6: Statistics of LEDBAT

```
Start at: 2018-04-17 15:16:57
End at: 2018-04-17 15:17:27
Local clock offset: -6.307 ms
Remote clock offset: 11.456 ms

# Below is generated by plot.py at 2018-04-17 20:37:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 17.07 Mbit/s
95th percentile per-packet one-way delay: 81.904 ms
Loss rate: 1.52%
-- Flow 1:
Average throughput: 11.29 Mbit/s
95th percentile per-packet one-way delay: 81.912 ms
Loss rate: 1.19%
-- Flow 2:
Average throughput: 7.34 Mbit/s
95th percentile per-packet one-way delay: 81.346 ms
Loss rate: 1.81%
-- Flow 3:
Average throughput: 2.76 Mbit/s
95th percentile per-packet one-way delay: 83.540 ms
Loss rate: 4.11%
```

Run 6: Report of LEDBAT — Data Link

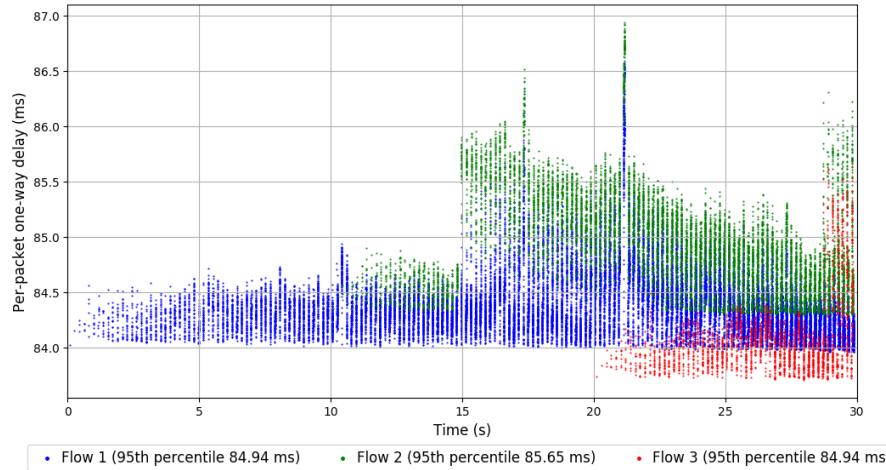
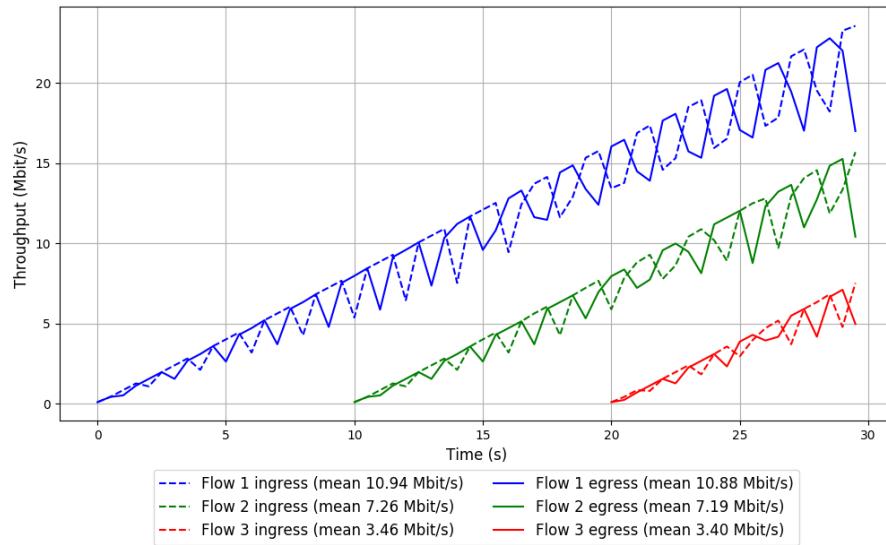


Run 7: Statistics of LEDBAT

```
Start at: 2018-04-17 15:39:16
End at: 2018-04-17 15:39:46
Local clock offset: -6.354 ms
Remote clock offset: 6.621 ms

# Below is generated by plot.py at 2018-04-17 20:37:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 16.75 Mbit/s
95th percentile per-packet one-way delay: 85.359 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 10.88 Mbit/s
95th percentile per-packet one-way delay: 84.943 ms
Loss rate: 1.19%
-- Flow 2:
Average throughput: 7.19 Mbit/s
95th percentile per-packet one-way delay: 85.654 ms
Loss rate: 1.83%
-- Flow 3:
Average throughput: 3.40 Mbit/s
95th percentile per-packet one-way delay: 84.935 ms
Loss rate: 3.73%
```

Run 7: Report of LEDBAT — Data Link

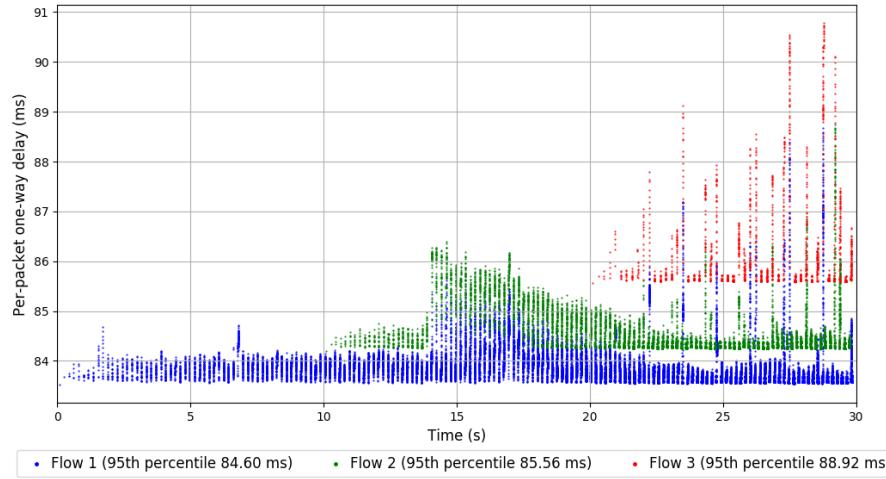
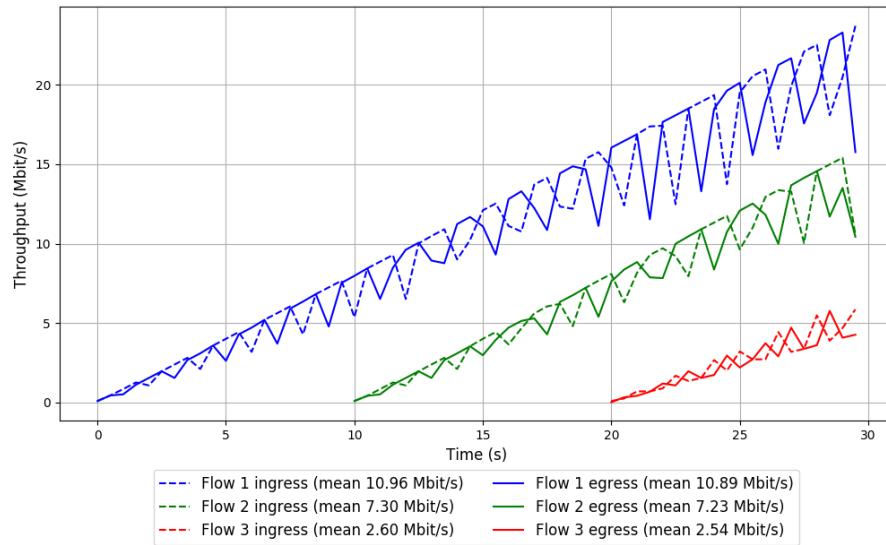


Run 8: Statistics of LEDBAT

```
Start at: 2018-04-17 16:01:35
End at: 2018-04-17 16:02:05
Local clock offset: -4.805 ms
Remote clock offset: 4.793 ms

# Below is generated by plot.py at 2018-04-17 20:37:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 16.49 Mbit/s
95th percentile per-packet one-way delay: 85.644 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 10.89 Mbit/s
95th percentile per-packet one-way delay: 84.599 ms
Loss rate: 1.21%
-- Flow 2:
Average throughput: 7.23 Mbit/s
95th percentile per-packet one-way delay: 85.564 ms
Loss rate: 1.83%
-- Flow 3:
Average throughput: 2.54 Mbit/s
95th percentile per-packet one-way delay: 88.916 ms
Loss rate: 4.28%
```

Run 8: Report of LEDBAT — Data Link

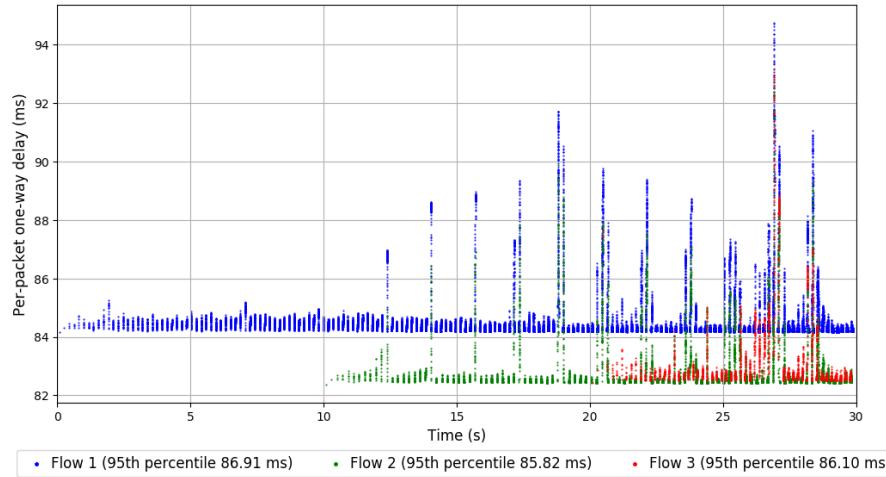
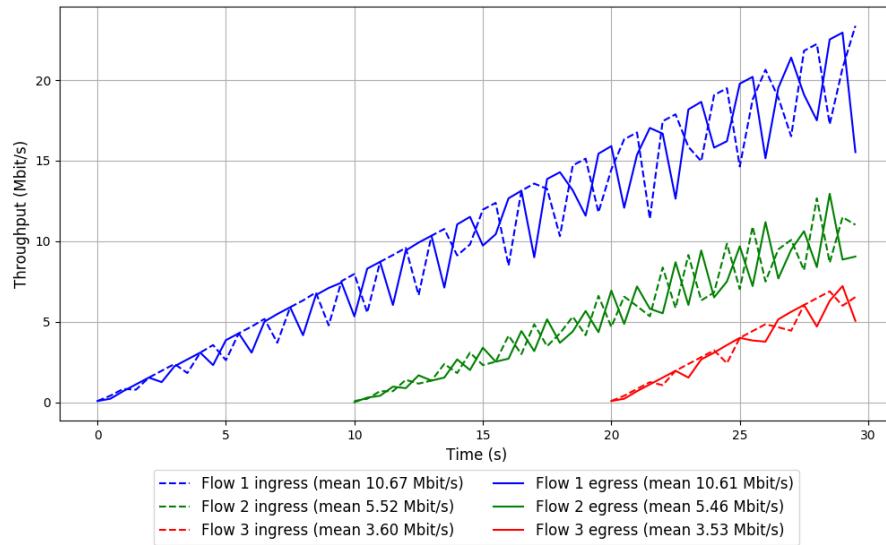


Run 9: Statistics of LEDBAT

```
Start at: 2018-04-17 16:24:00
End at: 2018-04-17 16:24:30
Local clock offset: -4.63 ms
Remote clock offset: 4.766 ms

# Below is generated by plot.py at 2018-04-17 20:37:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.37 Mbit/s
95th percentile per-packet one-way delay: 86.684 ms
Loss rate: 1.62%
-- Flow 1:
Average throughput: 10.61 Mbit/s
95th percentile per-packet one-way delay: 86.912 ms
Loss rate: 1.23%
-- Flow 2:
Average throughput: 5.46 Mbit/s
95th percentile per-packet one-way delay: 85.822 ms
Loss rate: 2.09%
-- Flow 3:
Average throughput: 3.53 Mbit/s
95th percentile per-packet one-way delay: 86.097 ms
Loss rate: 3.67%
```

Run 9: Report of LEDBAT — Data Link

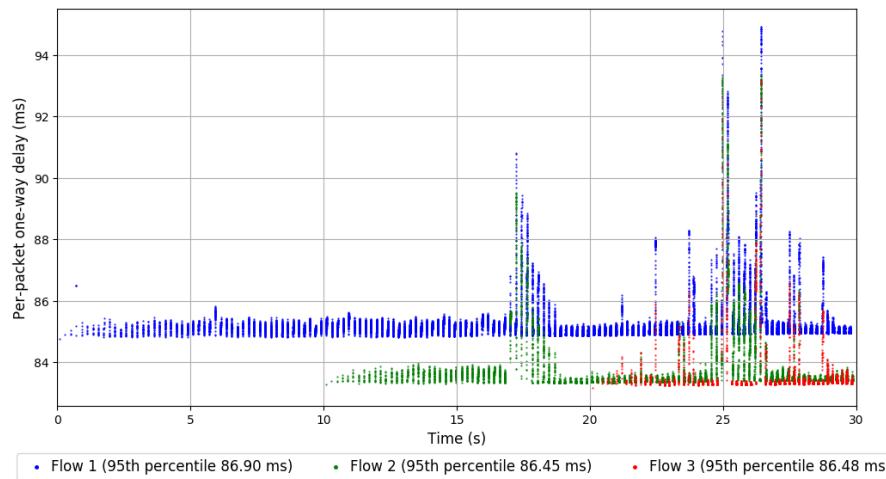
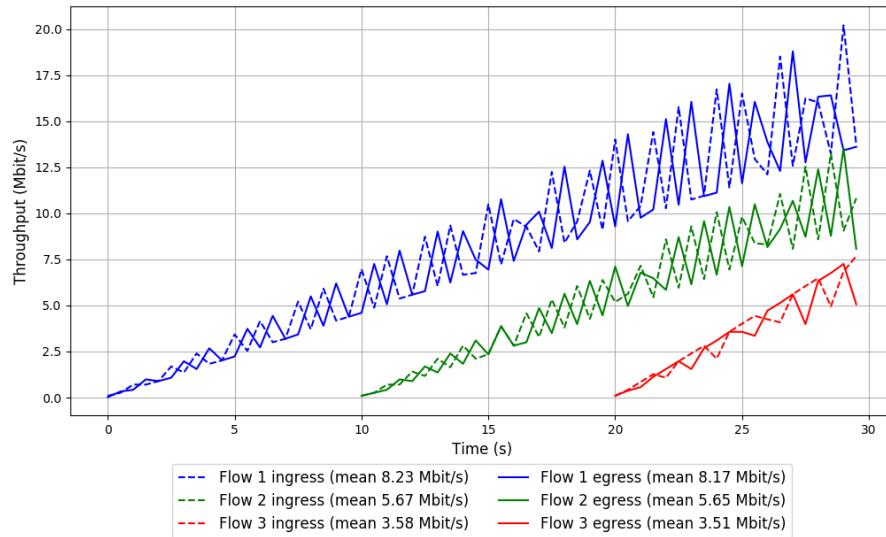


Run 10: Statistics of LEDBAT

```
Start at: 2018-04-17 16:46:22
End at: 2018-04-17 16:46:52
Local clock offset: -2.701 ms
Remote clock offset: 4.709 ms

# Below is generated by plot.py at 2018-04-17 20:37:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.04 Mbit/s
95th percentile per-packet one-way delay: 86.790 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 8.17 Mbit/s
95th percentile per-packet one-way delay: 86.904 ms
Loss rate: 1.40%
-- Flow 2:
Average throughput: 5.65 Mbit/s
95th percentile per-packet one-way delay: 86.453 ms
Loss rate: 1.21%
-- Flow 3:
Average throughput: 3.51 Mbit/s
95th percentile per-packet one-way delay: 86.478 ms
Loss rate: 3.67%
```

Run 10: Report of LEDBAT — Data Link

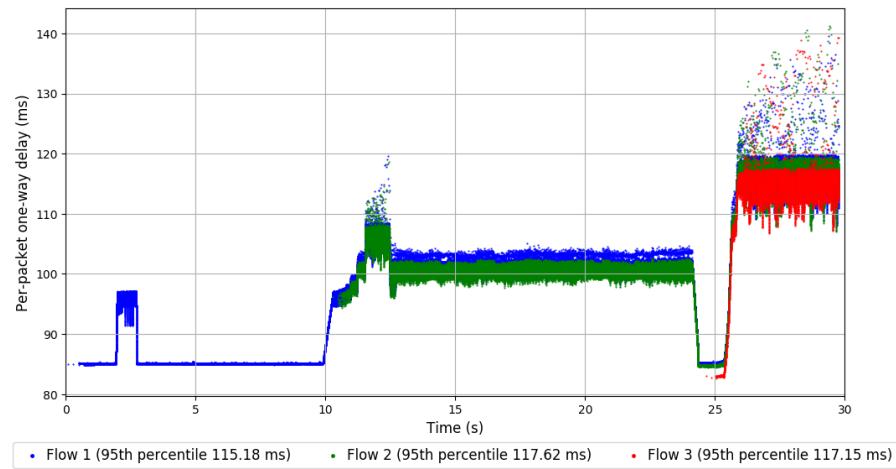
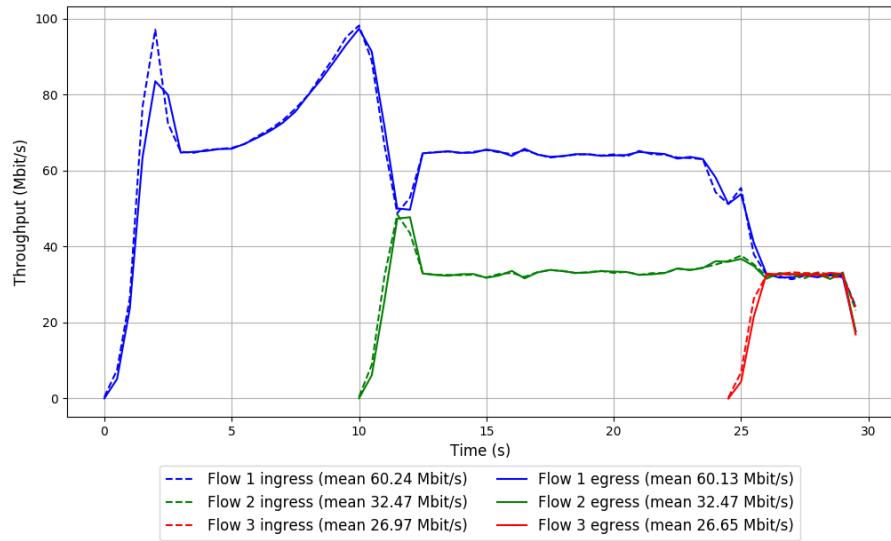


Run 1: Statistics of PCC-Allegro

```
Start at: 2018-04-17 13:18:50
End at: 2018-04-17 13:19:20
Local clock offset: -5.664 ms
Remote clock offset: 5.975 ms

# Below is generated by plot.py at 2018-04-17 20:38:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.22 Mbit/s
95th percentile per-packet one-way delay: 116.767 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 60.13 Mbit/s
95th percentile per-packet one-way delay: 115.182 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 32.47 Mbit/s
95th percentile per-packet one-way delay: 117.623 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 26.65 Mbit/s
95th percentile per-packet one-way delay: 117.152 ms
Loss rate: 4.91%
```

Run 1: Report of PCC-Allegro — Data Link

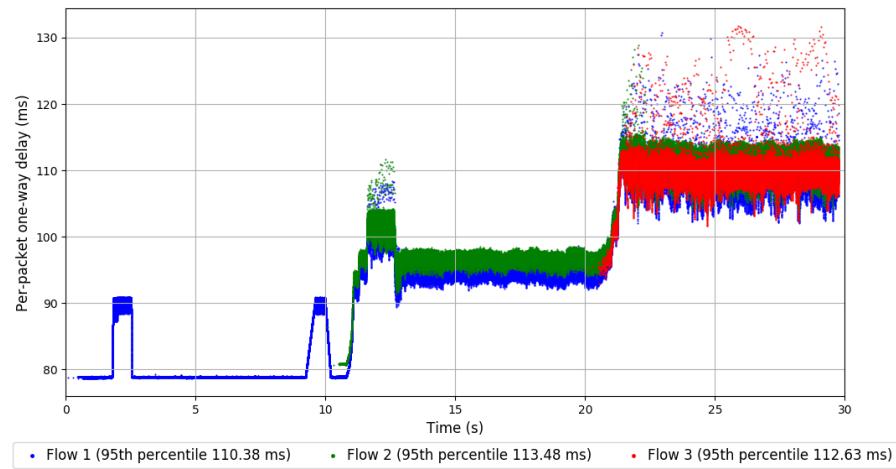
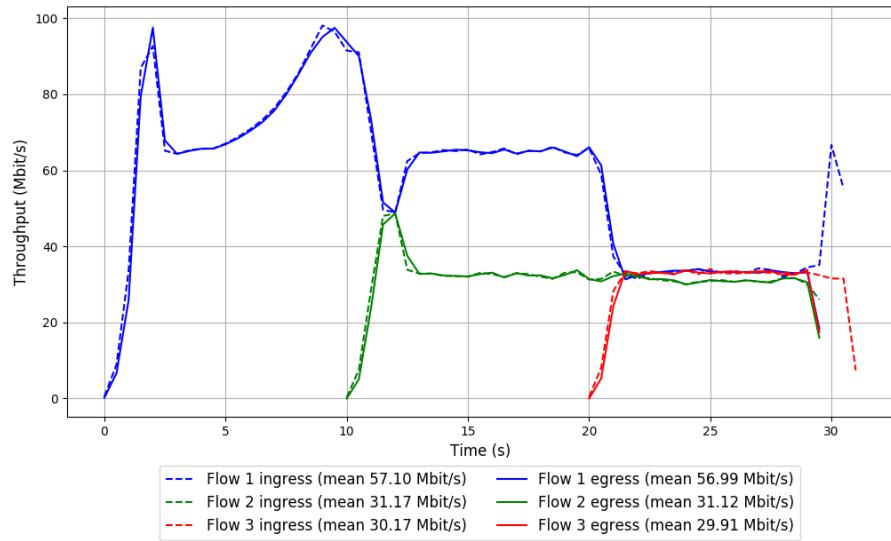


Run 2: Statistics of PCC-Allegro

```
Start at: 2018-04-17 13:41:11
End at: 2018-04-17 13:41:41
Local clock offset: -1.489 ms
Remote clock offset: 11.674 ms

# Below is generated by plot.py at 2018-04-17 20:38:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.34 Mbit/s
95th percentile per-packet one-way delay: 112.293 ms
Loss rate: 4.70%
-- Flow 1:
Average throughput: 56.99 Mbit/s
95th percentile per-packet one-way delay: 110.382 ms
Loss rate: 4.15%
-- Flow 2:
Average throughput: 31.12 Mbit/s
95th percentile per-packet one-way delay: 113.478 ms
Loss rate: 1.35%
-- Flow 3:
Average throughput: 29.91 Mbit/s
95th percentile per-packet one-way delay: 112.629 ms
Loss rate: 13.77%
```

Run 2: Report of PCC-Allegro — Data Link

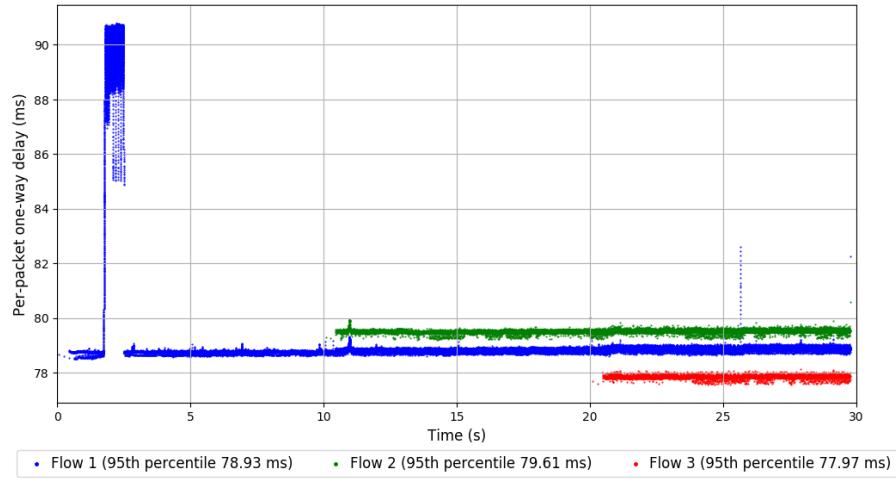
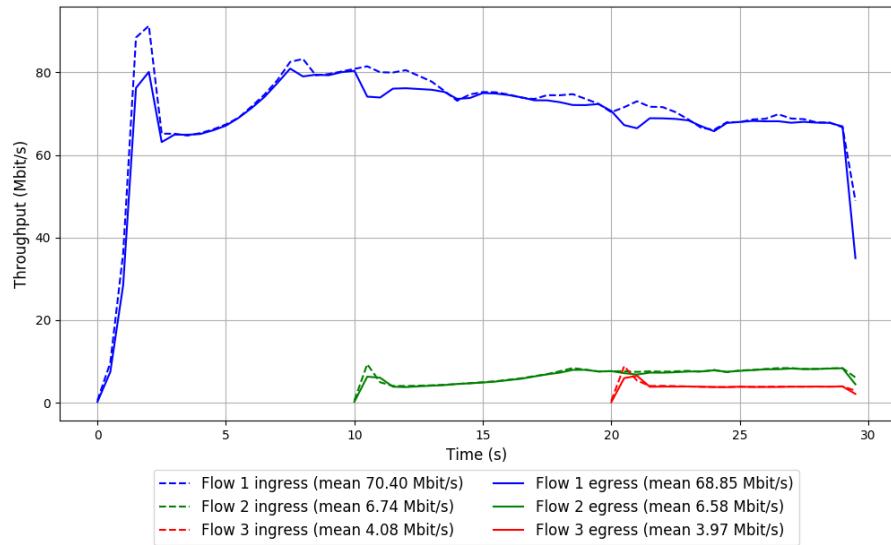


Run 3: Statistics of PCC-Allegro

```
Start at: 2018-04-17 14:03:28
End at: 2018-04-17 14:03:58
Local clock offset: -3.757 ms
Remote clock offset: 12.094 ms

# Below is generated by plot.py at 2018-04-17 20:38:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 74.51 Mbit/s
95th percentile per-packet one-way delay: 79.533 ms
Loss rate: 2.83%
-- Flow 1:
Average throughput: 68.85 Mbit/s
95th percentile per-packet one-way delay: 78.929 ms
Loss rate: 2.77%
-- Flow 2:
Average throughput: 6.58 Mbit/s
95th percentile per-packet one-way delay: 79.612 ms
Loss rate: 3.26%
-- Flow 3:
Average throughput: 3.97 Mbit/s
95th percentile per-packet one-way delay: 77.973 ms
Loss rate: 4.48%
```

Run 3: Report of PCC-Allegro — Data Link

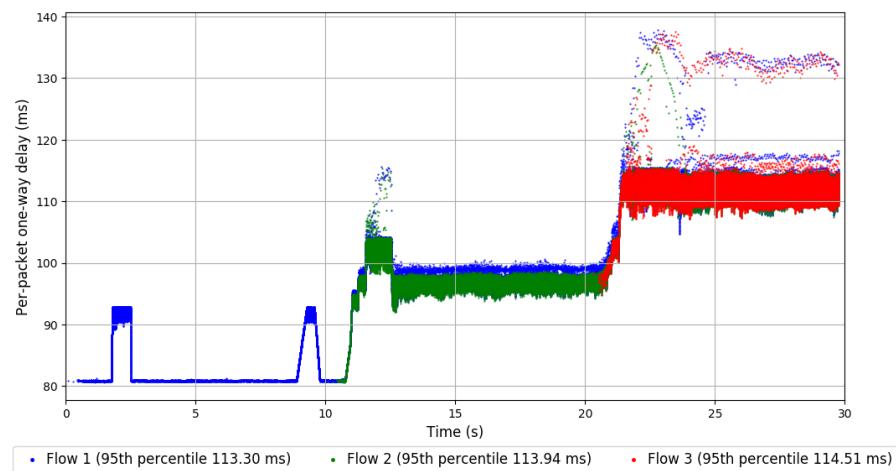
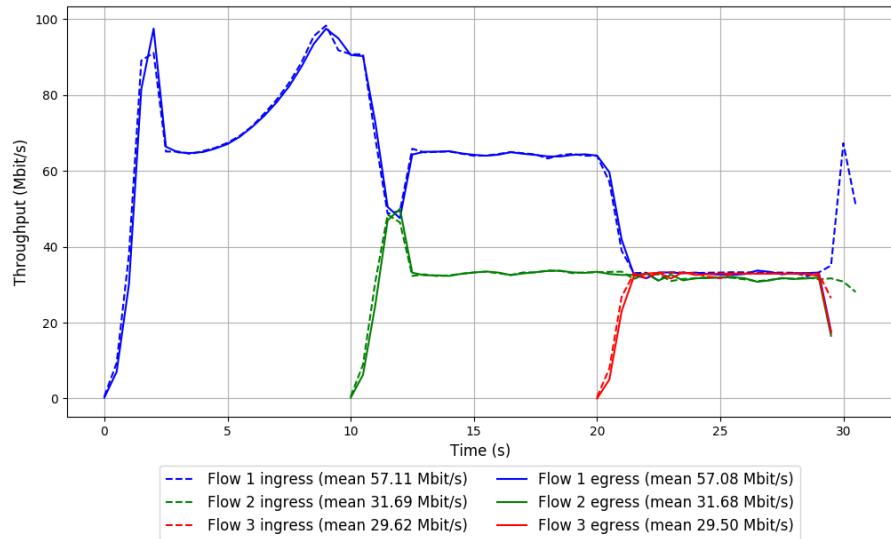


Run 4: Statistics of PCC-Allegro

```
Start at: 2018-04-17 14:25:38
End at: 2018-04-17 14:26:08
Local clock offset: -5.807 ms
Remote clock offset: 10.198 ms

# Below is generated by plot.py at 2018-04-17 20:38:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.65 Mbit/s
95th percentile per-packet one-way delay: 113.800 ms
Loss rate: 4.42%
-- Flow 1:
Average throughput: 57.08 Mbit/s
95th percentile per-packet one-way delay: 113.299 ms
Loss rate: 4.06%
-- Flow 2:
Average throughput: 31.68 Mbit/s
95th percentile per-packet one-way delay: 113.935 ms
Loss rate: 6.09%
-- Flow 3:
Average throughput: 29.50 Mbit/s
95th percentile per-packet one-way delay: 114.512 ms
Loss rate: 2.82%
```

Run 4: Report of PCC-Allegro — Data Link

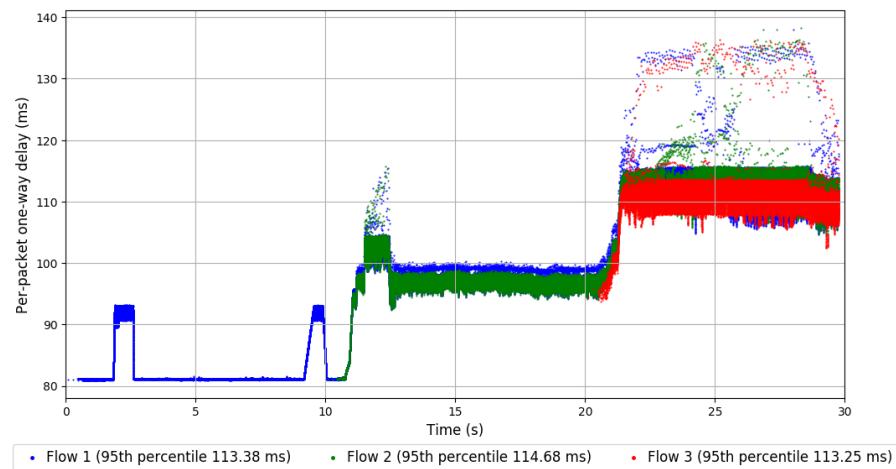
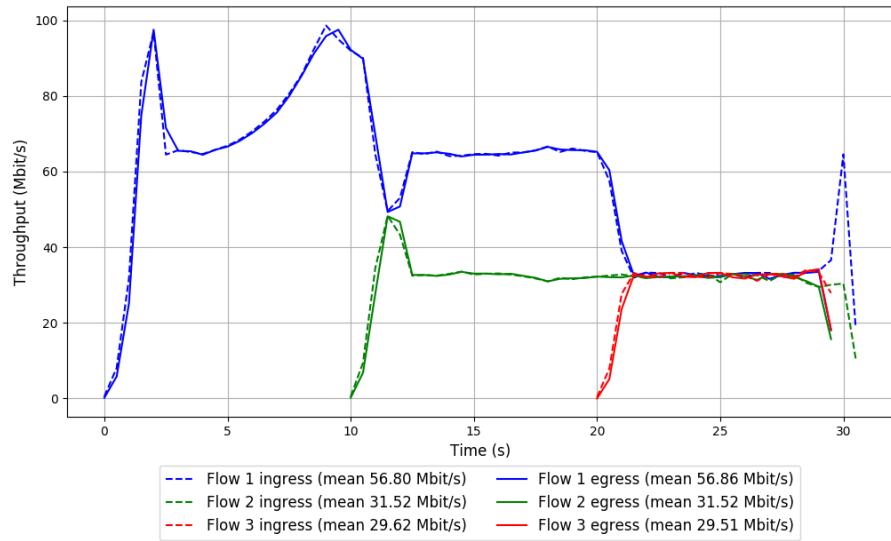


Run 5: Statistics of PCC-Allegro

```
Start at: 2018-04-17 14:47:57
End at: 2018-04-17 14:48:27
Local clock offset: -4.689 ms
Remote clock offset: 10.302 ms

# Below is generated by plot.py at 2018-04-17 20:38:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.35 Mbit/s
95th percentile per-packet one-way delay: 113.895 ms
Loss rate: 3.50%
-- Flow 1:
Average throughput: 56.86 Mbit/s
95th percentile per-packet one-way delay: 113.377 ms
Loss rate: 3.12%
-- Flow 2:
Average throughput: 31.52 Mbit/s
95th percentile per-packet one-way delay: 114.678 ms
Loss rate: 4.76%
-- Flow 3:
Average throughput: 29.51 Mbit/s
95th percentile per-packet one-way delay: 113.249 ms
Loss rate: 2.91%
```

Run 5: Report of PCC-Allegro — Data Link

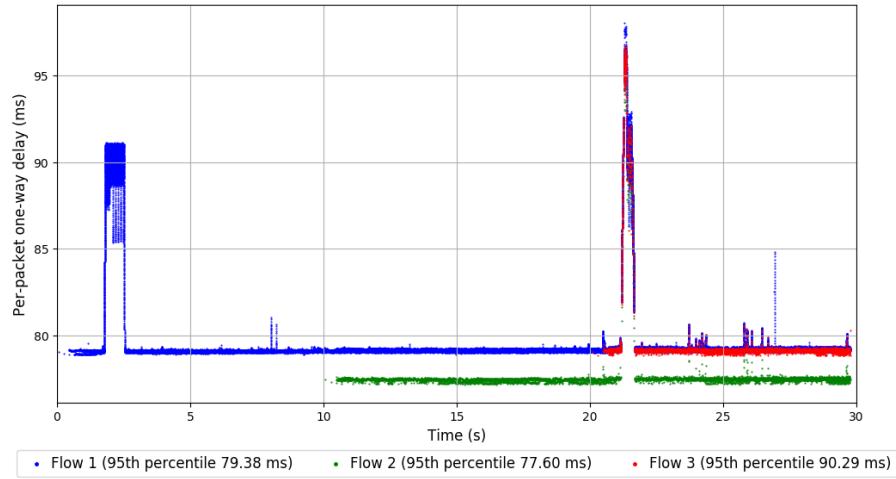
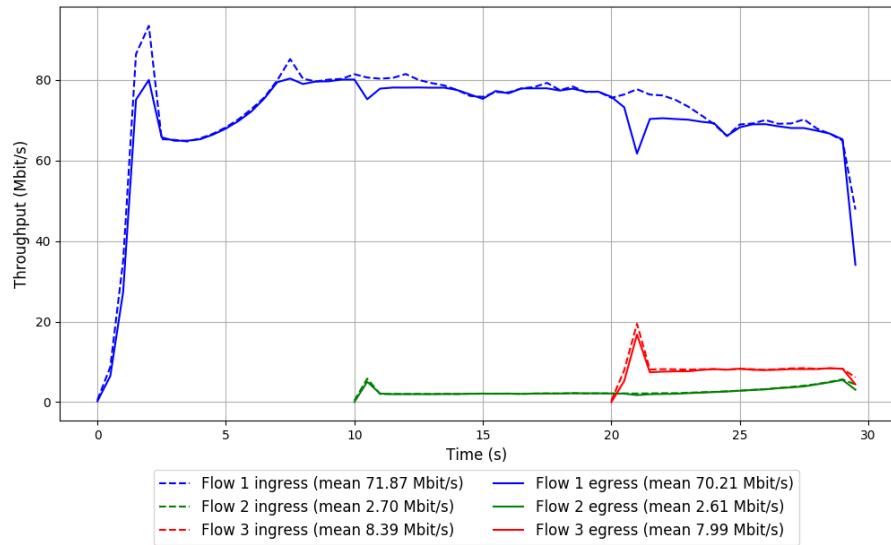


Run 6: Statistics of PCC-Allegro

```
Start at: 2018-04-17 15:10:21
End at: 2018-04-17 15:10:51
Local clock offset: -5.507 ms
Remote clock offset: 11.873 ms

# Below is generated by plot.py at 2018-04-17 20:38:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 74.54 Mbit/s
95th percentile per-packet one-way delay: 79.460 ms
Loss rate: 3.06%
-- Flow 1:
Average throughput: 70.21 Mbit/s
95th percentile per-packet one-way delay: 79.380 ms
Loss rate: 2.90%
-- Flow 2:
Average throughput: 2.61 Mbit/s
95th percentile per-packet one-way delay: 77.598 ms
Loss rate: 4.40%
-- Flow 3:
Average throughput: 7.99 Mbit/s
95th percentile per-packet one-way delay: 90.289 ms
Loss rate: 6.43%
```

Run 6: Report of PCC-Allegro — Data Link

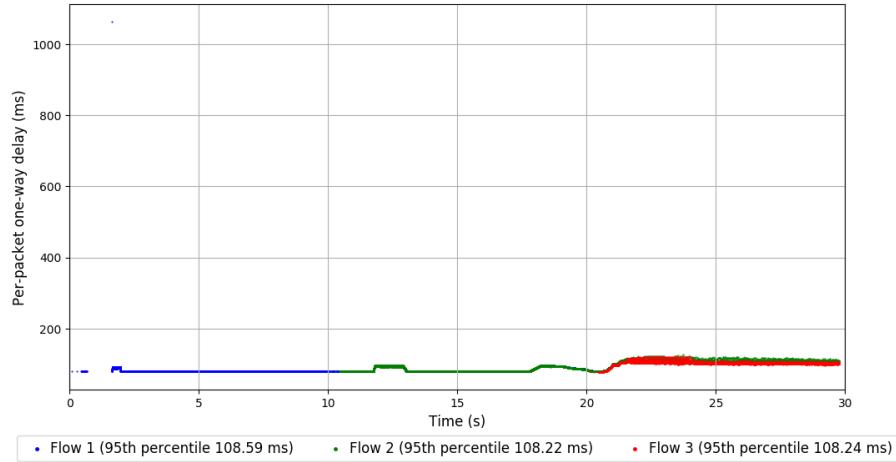
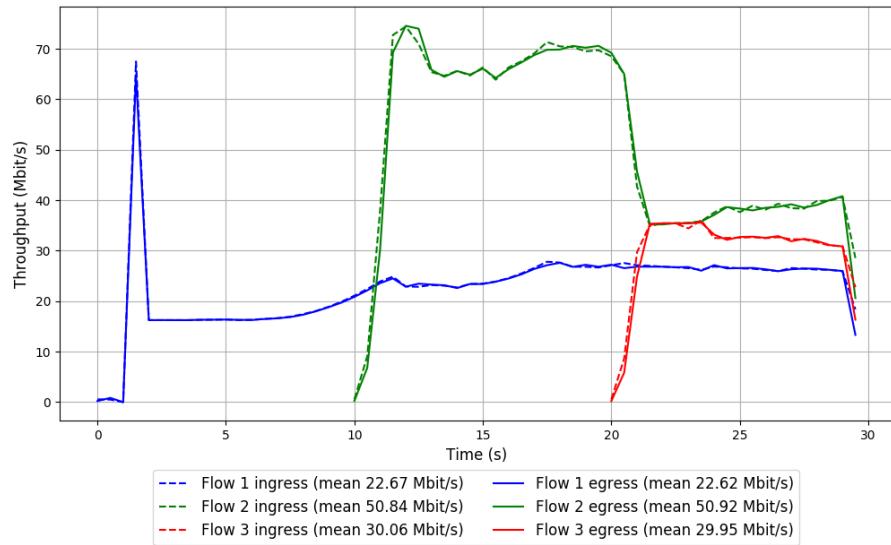


Run 7: Statistics of PCC-Allegro

```
Start at: 2018-04-17 15:32:40
End at: 2018-04-17 15:33:10
Local clock offset: -4.778 ms
Remote clock offset: 12.597 ms

# Below is generated by plot.py at 2018-04-17 20:38:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.14 Mbit/s
95th percentile per-packet one-way delay: 108.354 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 22.62 Mbit/s
95th percentile per-packet one-way delay: 108.586 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 50.92 Mbit/s
95th percentile per-packet one-way delay: 108.221 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 29.95 Mbit/s
95th percentile per-packet one-way delay: 108.238 ms
Loss rate: 2.17%
```

Run 7: Report of PCC-Allegro — Data Link

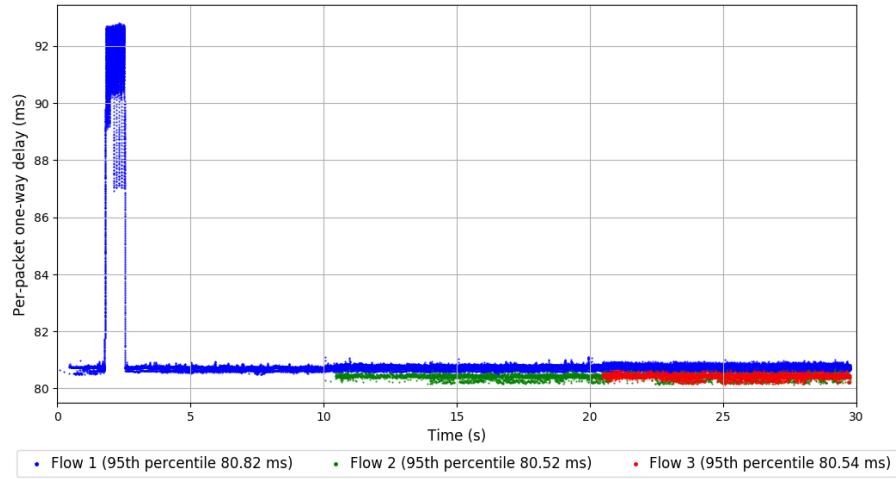
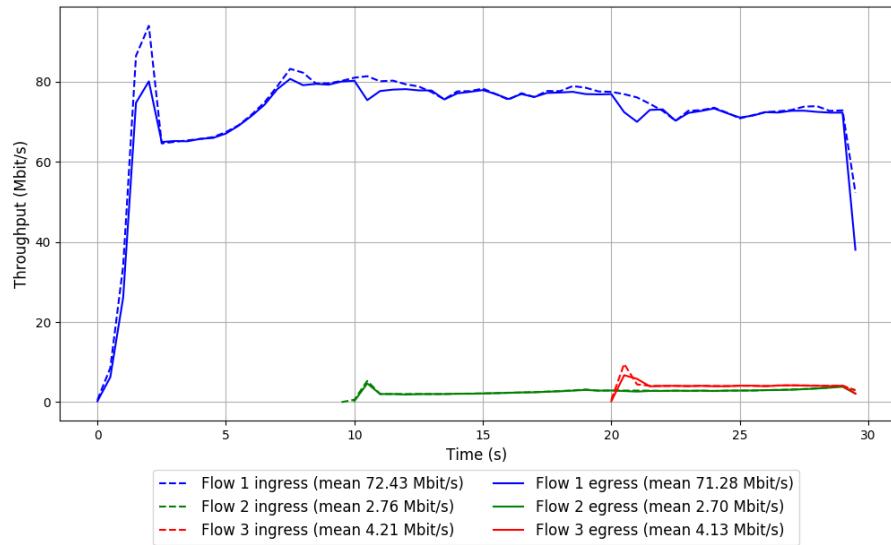


Run 8: Statistics of PCC-Allegro

```
Start at: 2018-04-17 15:54:58
End at: 2018-04-17 15:55:28
Local clock offset: -4.81 ms
Remote clock offset: 9.816 ms

# Below is generated by plot.py at 2018-04-17 20:39:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 74.41 Mbit/s
95th percentile per-packet one-way delay: 80.815 ms
Loss rate: 2.23%
-- Flow 1:
Average throughput: 71.28 Mbit/s
95th percentile per-packet one-way delay: 80.819 ms
Loss rate: 2.19%
-- Flow 2:
Average throughput: 2.70 Mbit/s
95th percentile per-packet one-way delay: 80.523 ms
Loss rate: 2.98%
-- Flow 3:
Average throughput: 4.13 Mbit/s
95th percentile per-packet one-way delay: 80.539 ms
Loss rate: 3.63%
```

Run 8: Report of PCC-Allegro — Data Link

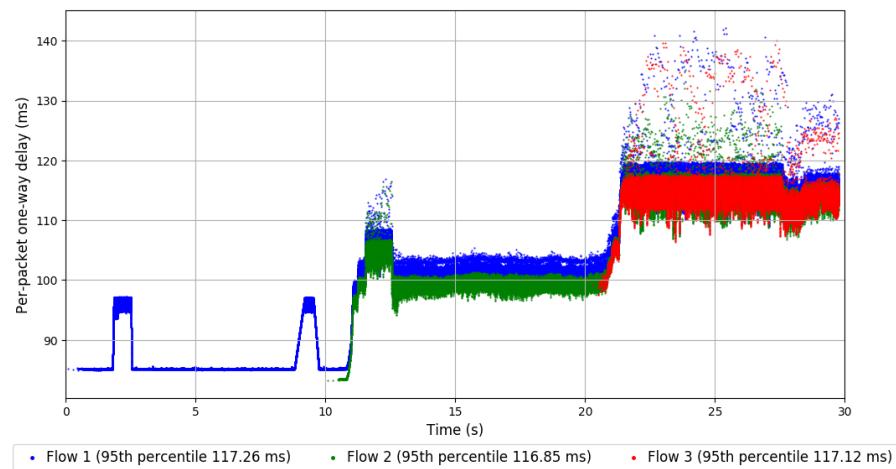
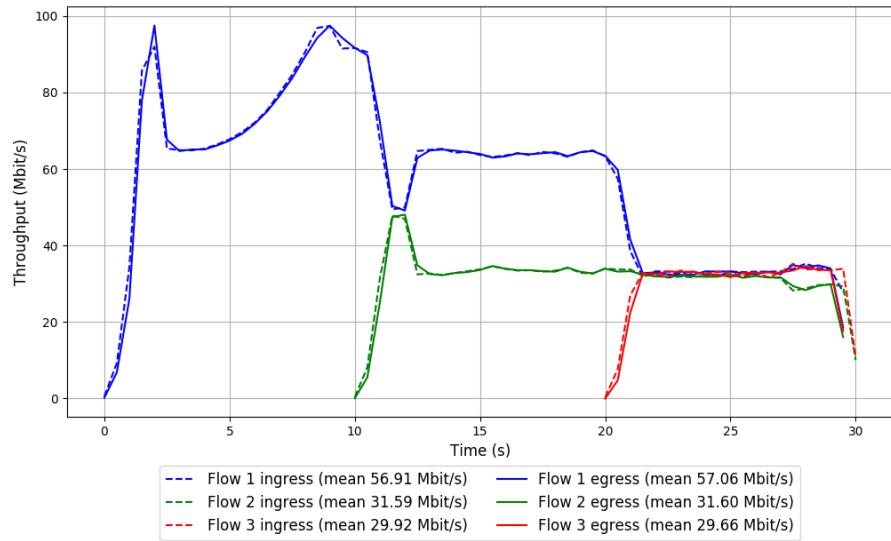


Run 9: Statistics of PCC-Allegro

```
Start at: 2018-04-17 16:17:25
End at: 2018-04-17 16:17:55
Local clock offset: -5.379 ms
Remote clock offset: 3.896 ms

# Below is generated by plot.py at 2018-04-17 20:40:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.66 Mbit/s
95th percentile per-packet one-way delay: 117.100 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 57.06 Mbit/s
95th percentile per-packet one-way delay: 117.256 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 31.60 Mbit/s
95th percentile per-packet one-way delay: 116.851 ms
Loss rate: 2.37%
-- Flow 3:
Average throughput: 29.66 Mbit/s
95th percentile per-packet one-way delay: 117.118 ms
Loss rate: 5.73%
```

Run 9: Report of PCC-Allegro — Data Link

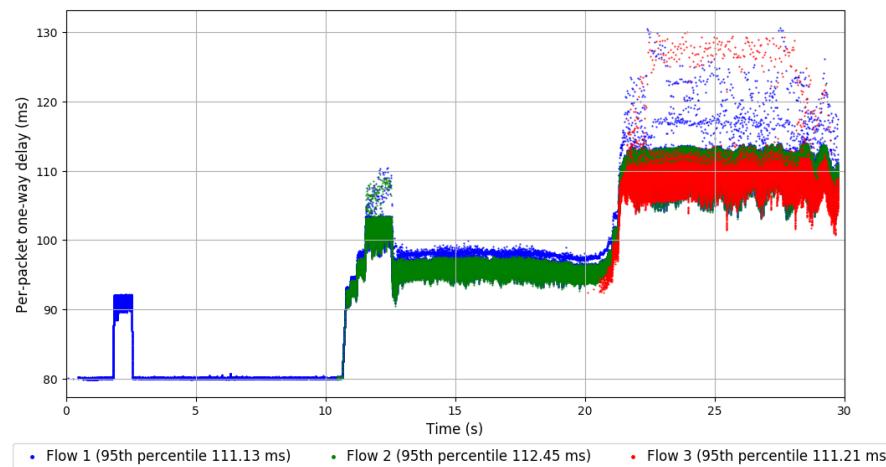
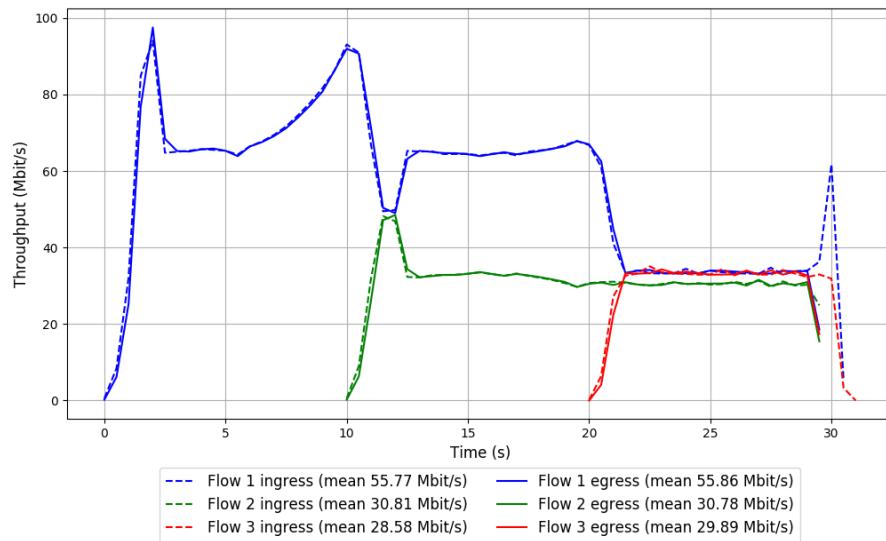


Run 10: Statistics of PCC-Allegro

```
Start at: 2018-04-17 16:39:45
End at: 2018-04-17 16:40:15
Local clock offset: -3.757 ms
Remote clock offset: 8.655 ms

# Below is generated by plot.py at 2018-04-17 20:40:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.98 Mbit/s
95th percentile per-packet one-way delay: 111.810 ms
Loss rate: 3.14%
-- Flow 1:
Average throughput: 55.86 Mbit/s
95th percentile per-packet one-way delay: 111.127 ms
Loss rate: 2.70%
-- Flow 2:
Average throughput: 30.78 Mbit/s
95th percentile per-packet one-way delay: 112.449 ms
Loss rate: 1.28%
-- Flow 3:
Average throughput: 29.89 Mbit/s
95th percentile per-packet one-way delay: 111.207 ms
Loss rate: 9.07%
```

Run 10: Report of PCC-Allegro — Data Link

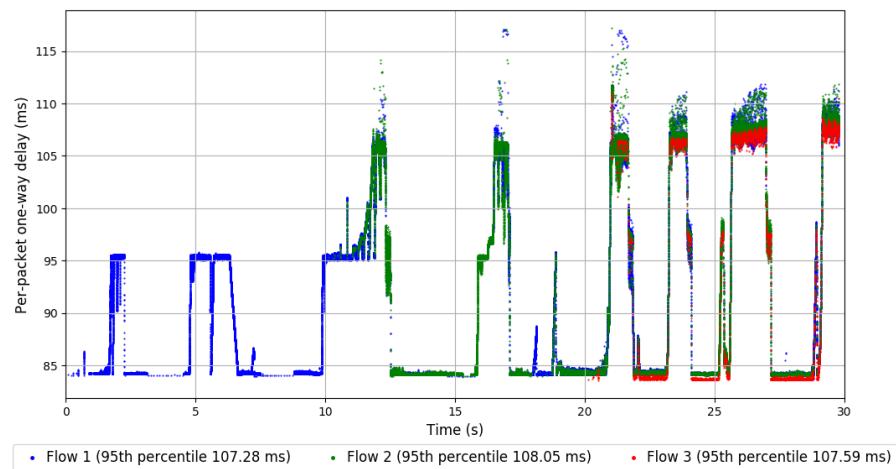
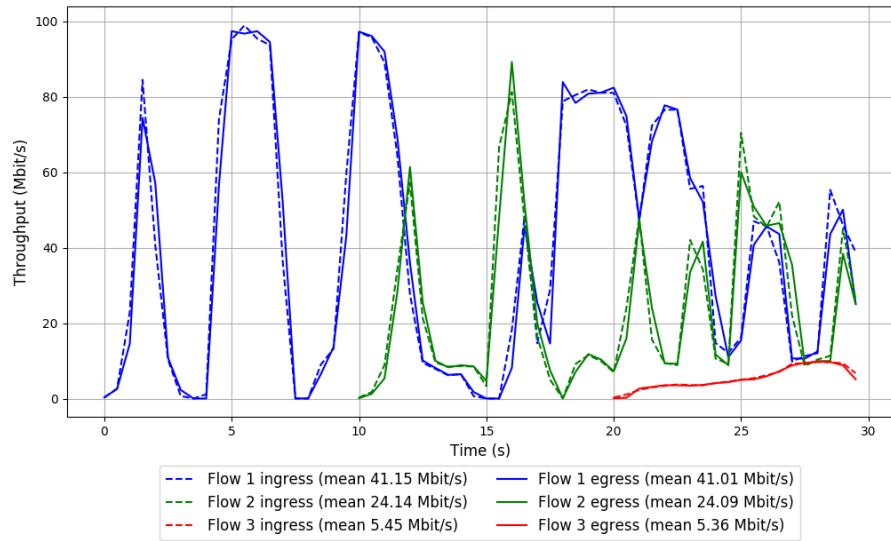


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-04-17 13:22:49
End at: 2018-04-17 13:23:19
Local clock offset: -4.753 ms
Remote clock offset: 6.135 ms

# Below is generated by plot.py at 2018-04-17 20:40:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 58.69 Mbit/s
95th percentile per-packet one-way delay: 107.673 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 41.01 Mbit/s
95th percentile per-packet one-way delay: 107.278 ms
Loss rate: 0.94%
-- Flow 2:
Average throughput: 24.09 Mbit/s
95th percentile per-packet one-way delay: 108.046 ms
Loss rate: 1.12%
-- Flow 3:
Average throughput: 5.36 Mbit/s
95th percentile per-packet one-way delay: 107.593 ms
Loss rate: 3.40%
```

Run 1: Report of QUIC Cubic — Data Link

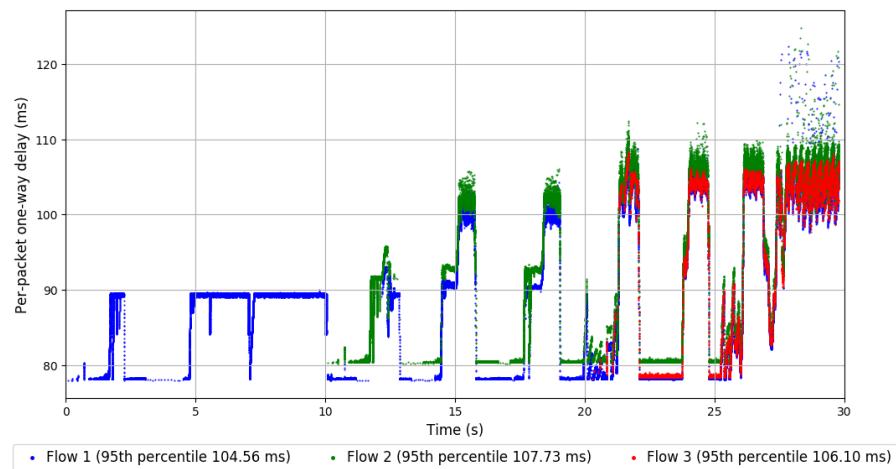
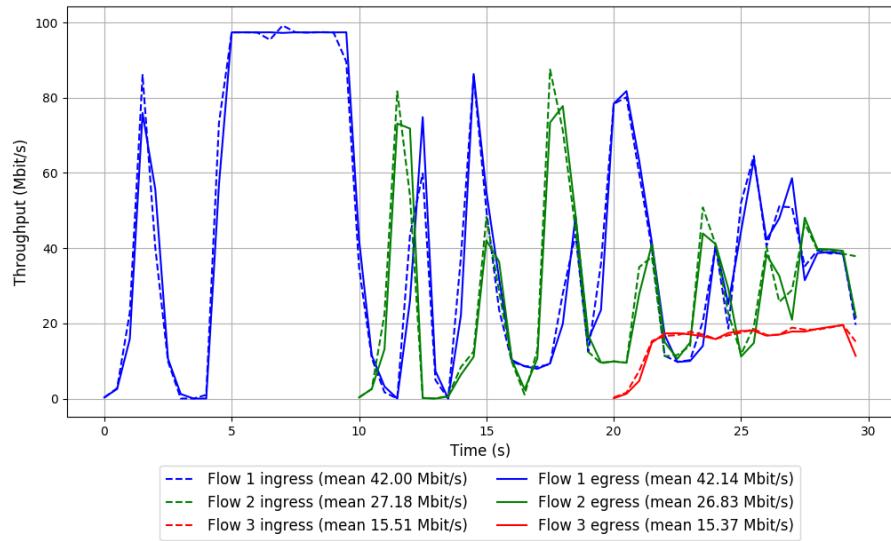


Run 2: Statistics of QUIC Cubic

```
Start at: 2018-04-17 13:45:08
End at: 2018-04-17 13:45:38
Local clock offset: -2.775 ms
Remote clock offset: 10.874 ms

# Below is generated by plot.py at 2018-04-17 20:40:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 64.91 Mbit/s
95th percentile per-packet one-way delay: 106.375 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 42.14 Mbit/s
95th percentile per-packet one-way delay: 104.565 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 26.83 Mbit/s
95th percentile per-packet one-way delay: 107.729 ms
Loss rate: 2.14%
-- Flow 3:
Average throughput: 15.37 Mbit/s
95th percentile per-packet one-way delay: 106.101 ms
Loss rate: 2.69%
```

Run 2: Report of QUIC Cubic — Data Link

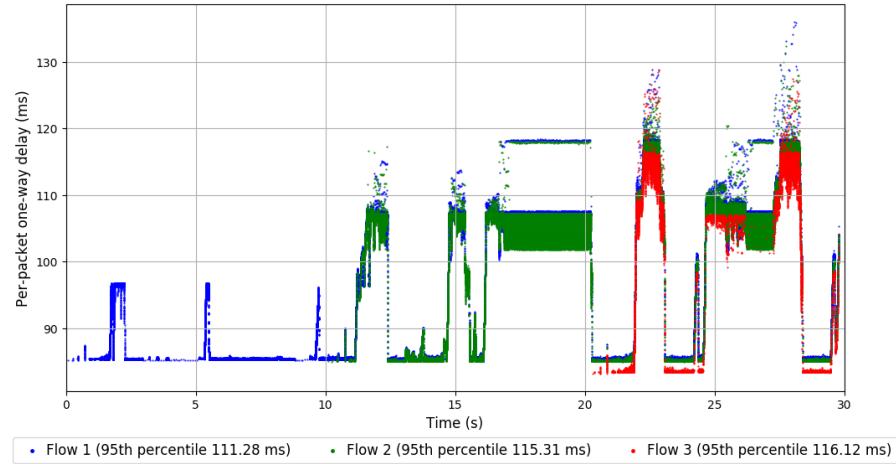
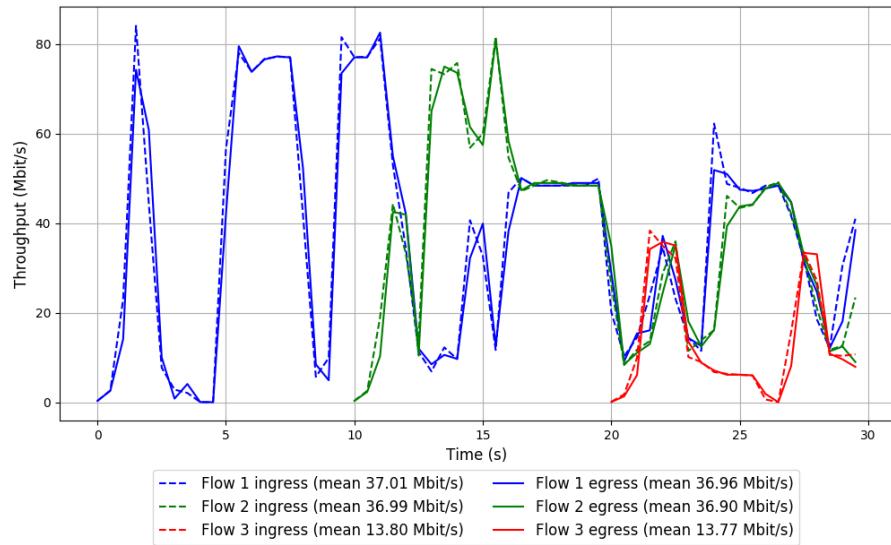


Run 3: Statistics of QUIC Cubic

```
Start at: 2018-04-17 14:07:24
End at: 2018-04-17 14:07:54
Local clock offset: -4.493 ms
Remote clock offset: 6.306 ms

# Below is generated by plot.py at 2018-04-17 20:40:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 65.88 Mbit/s
95th percentile per-packet one-way delay: 114.933 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 36.96 Mbit/s
95th percentile per-packet one-way delay: 111.280 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 36.90 Mbit/s
95th percentile per-packet one-way delay: 115.314 ms
Loss rate: 1.14%
-- Flow 3:
Average throughput: 13.77 Mbit/s
95th percentile per-packet one-way delay: 116.121 ms
Loss rate: 1.96%
```

Run 3: Report of QUIC Cubic — Data Link

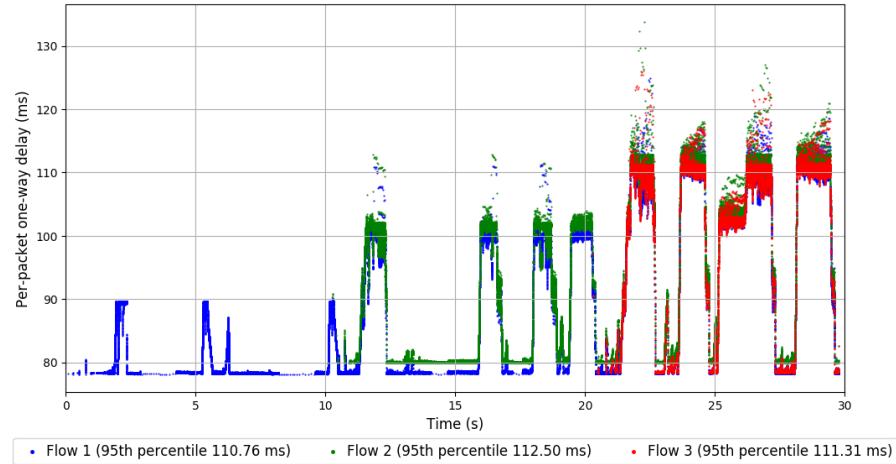
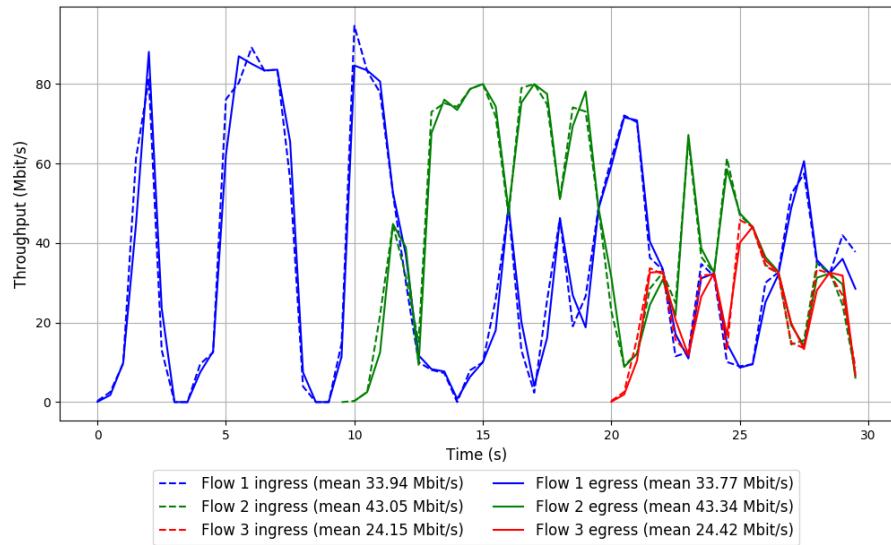


Run 4: Statistics of QUIC Cubic

```
Start at: 2018-04-17 14:29:35
End at: 2018-04-17 14:30:05
Local clock offset: -5.974 ms
Remote clock offset: 10.94 ms

# Below is generated by plot.py at 2018-04-17 20:40:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 70.46 Mbit/s
95th percentile per-packet one-way delay: 111.738 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 33.77 Mbit/s
95th percentile per-packet one-way delay: 110.758 ms
Loss rate: 1.09%
-- Flow 2:
Average throughput: 43.34 Mbit/s
95th percentile per-packet one-way delay: 112.497 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 24.42 Mbit/s
95th percentile per-packet one-way delay: 111.313 ms
Loss rate: 0.91%
```

Run 4: Report of QUIC Cubic — Data Link

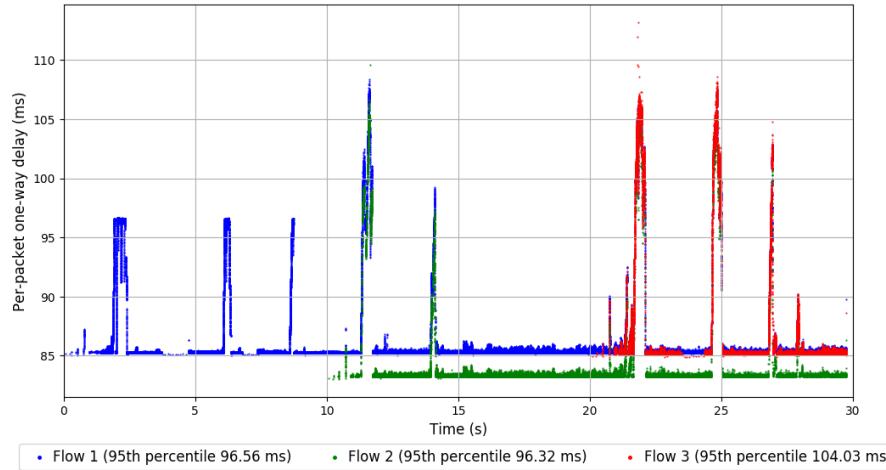
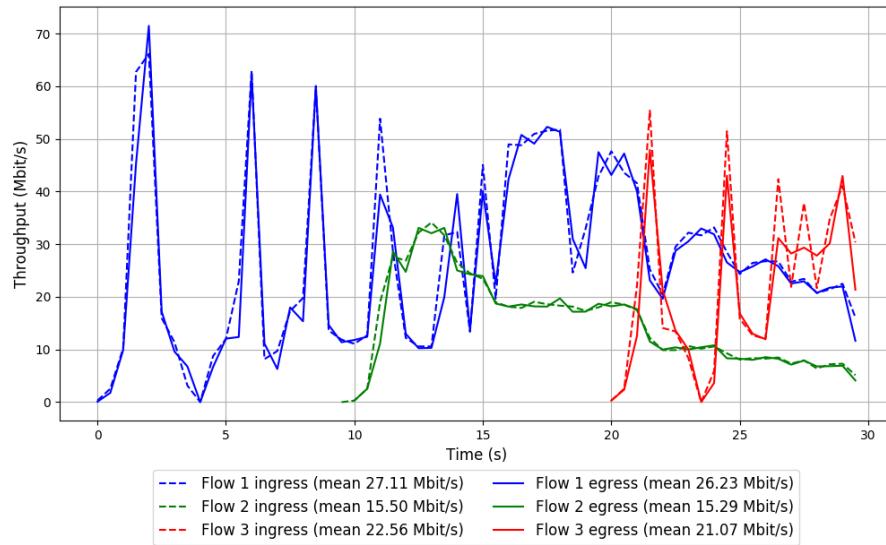


Run 5: Statistics of QUIC Cubic

```
Start at: 2018-04-17 14:51:54
End at: 2018-04-17 14:52:24
Local clock offset: -5.426 ms
Remote clock offset: 5.425 ms

# Below is generated by plot.py at 2018-04-17 20:40:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 43.24 Mbit/s
95th percentile per-packet one-way delay: 99.221 ms
Loss rate: 4.17%
-- Flow 1:
Average throughput: 26.23 Mbit/s
95th percentile per-packet one-way delay: 96.558 ms
Loss rate: 3.81%
-- Flow 2:
Average throughput: 15.29 Mbit/s
95th percentile per-packet one-way delay: 96.319 ms
Loss rate: 2.17%
-- Flow 3:
Average throughput: 21.07 Mbit/s
95th percentile per-packet one-way delay: 104.025 ms
Loss rate: 8.26%
```

Run 5: Report of QUIC Cubic — Data Link

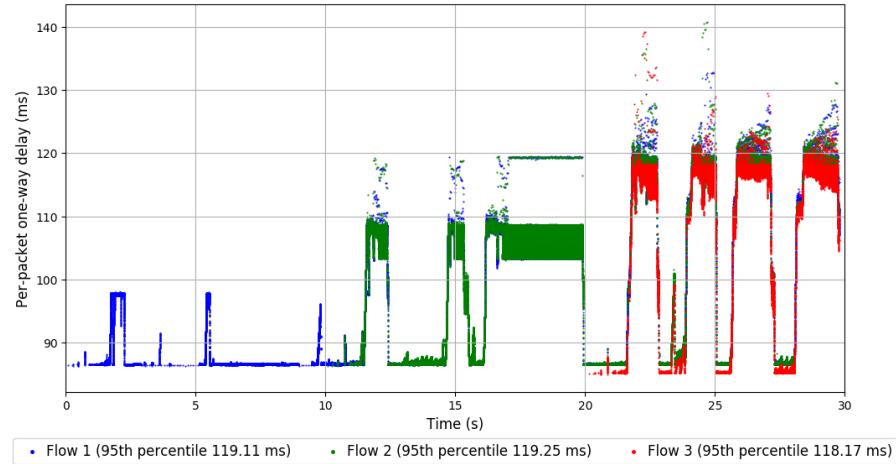
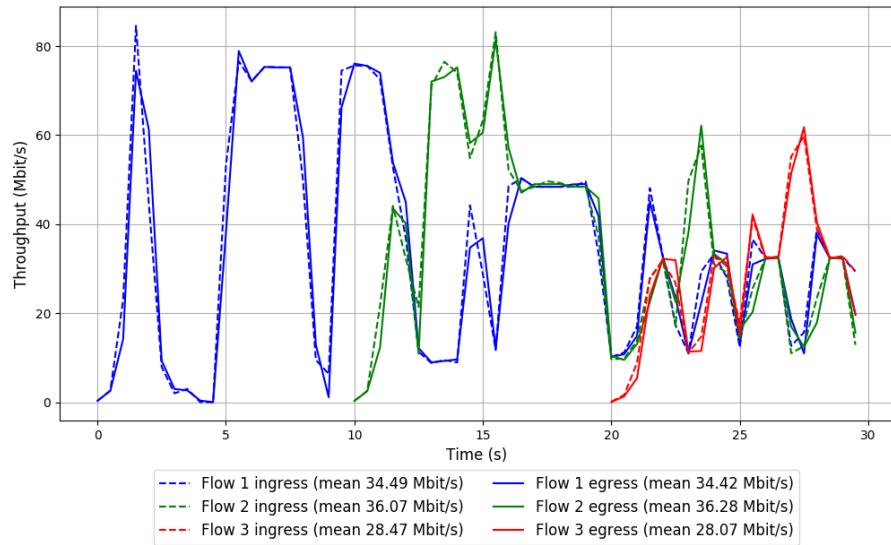


Run 6: Statistics of QUIC Cubic

```
Start at: 2018-04-17 15:14:16
End at: 2018-04-17 15:14:46
Local clock offset: -4.684 ms
Remote clock offset: 5.597 ms

# Below is generated by plot.py at 2018-04-17 20:40:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 67.57 Mbit/s
95th percentile per-packet one-way delay: 119.140 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 34.42 Mbit/s
95th percentile per-packet one-way delay: 119.114 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 36.28 Mbit/s
95th percentile per-packet one-way delay: 119.249 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 28.07 Mbit/s
95th percentile per-packet one-way delay: 118.167 ms
Loss rate: 3.17%
```

Run 6: Report of QUIC Cubic — Data Link

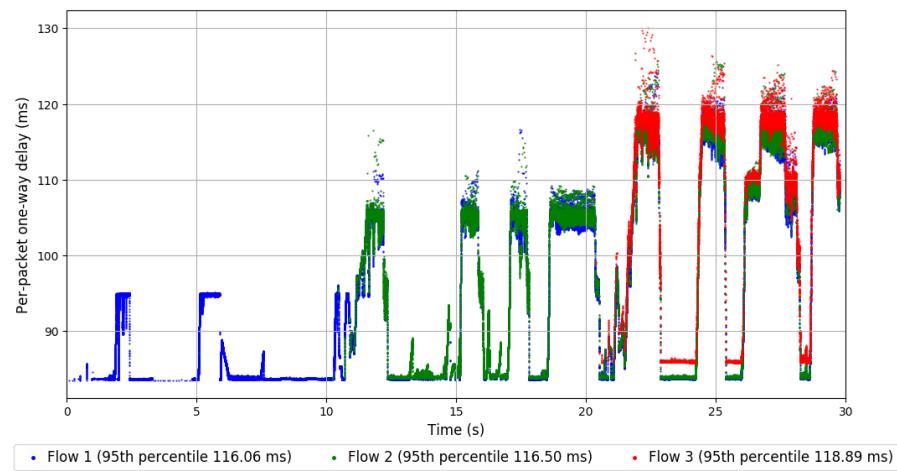
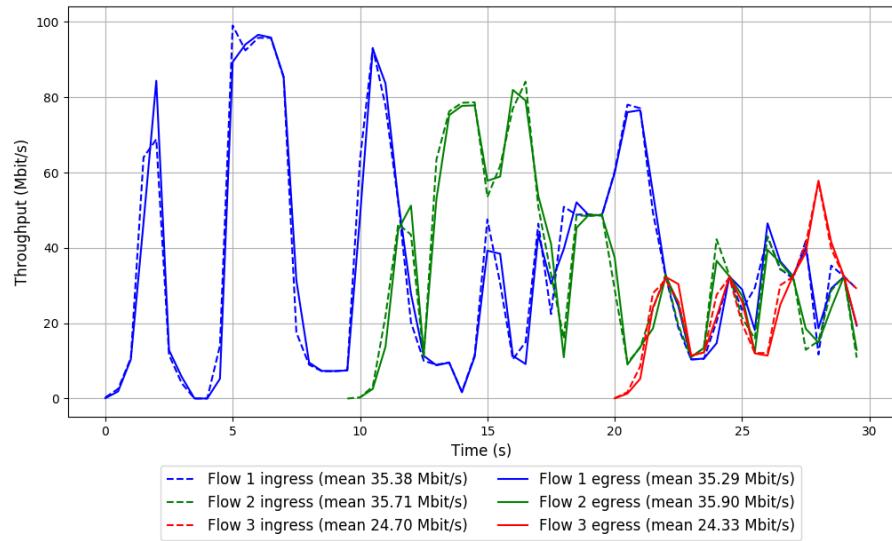


Run 7: Statistics of QUIC Cubic

```
Start at: 2018-04-17 15:36:36
End at: 2018-04-17 15:37:06
Local clock offset: -5.613 ms
Remote clock offset: 6.2 ms

# Below is generated by plot.py at 2018-04-17 20:41:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 67.00 Mbit/s
95th percentile per-packet one-way delay: 117.697 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 35.29 Mbit/s
95th percentile per-packet one-way delay: 116.064 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 35.90 Mbit/s
95th percentile per-packet one-way delay: 116.496 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 24.33 Mbit/s
95th percentile per-packet one-way delay: 118.895 ms
Loss rate: 3.54%
```

Run 7: Report of QUIC Cubic — Data Link

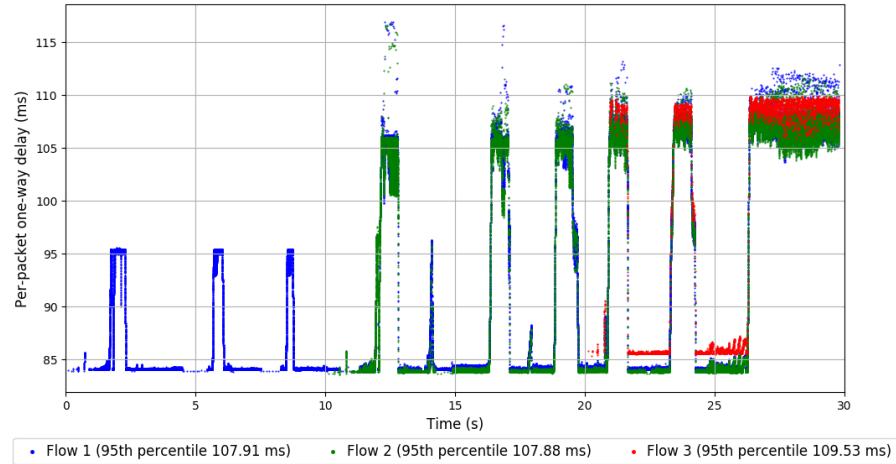
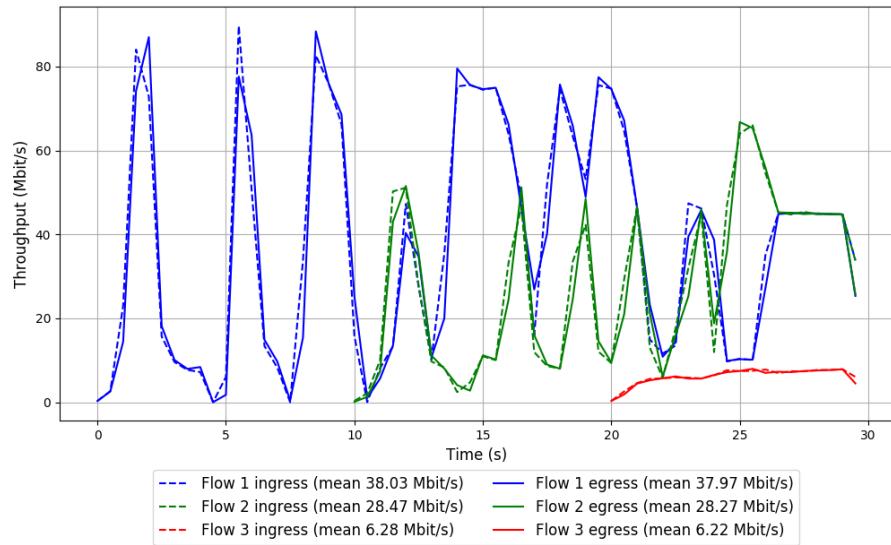


Run 8: Statistics of QUIC Cubic

```
Start at: 2018-04-17 15:58:55
End at: 2018-04-17 15:59:25
Local clock offset: -5.536 ms
Remote clock offset: 4.038 ms

# Below is generated by plot.py at 2018-04-17 20:41:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 58.71 Mbit/s
95th percentile per-packet one-way delay: 108.029 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 37.97 Mbit/s
95th percentile per-packet one-way delay: 107.913 ms
Loss rate: 0.80%
-- Flow 2:
Average throughput: 28.27 Mbit/s
95th percentile per-packet one-way delay: 107.880 ms
Loss rate: 1.57%
-- Flow 3:
Average throughput: 6.22 Mbit/s
95th percentile per-packet one-way delay: 109.531 ms
Loss rate: 2.65%
```

Run 8: Report of QUIC Cubic — Data Link

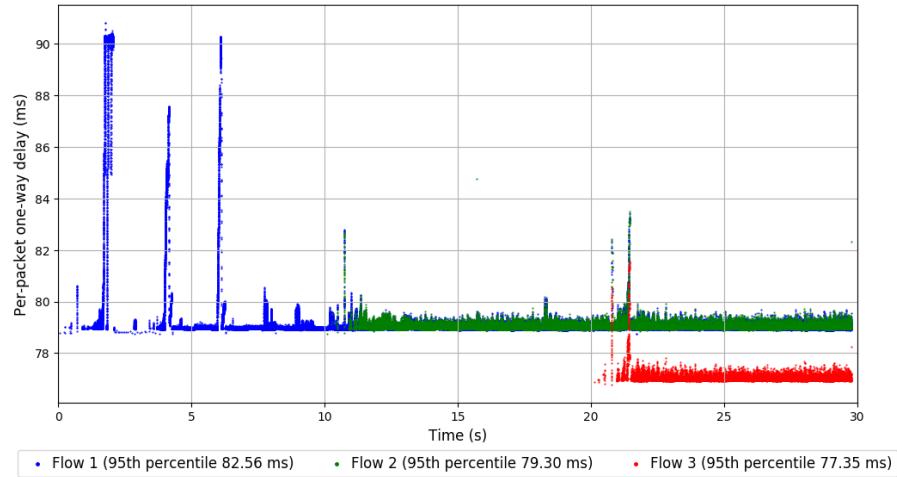
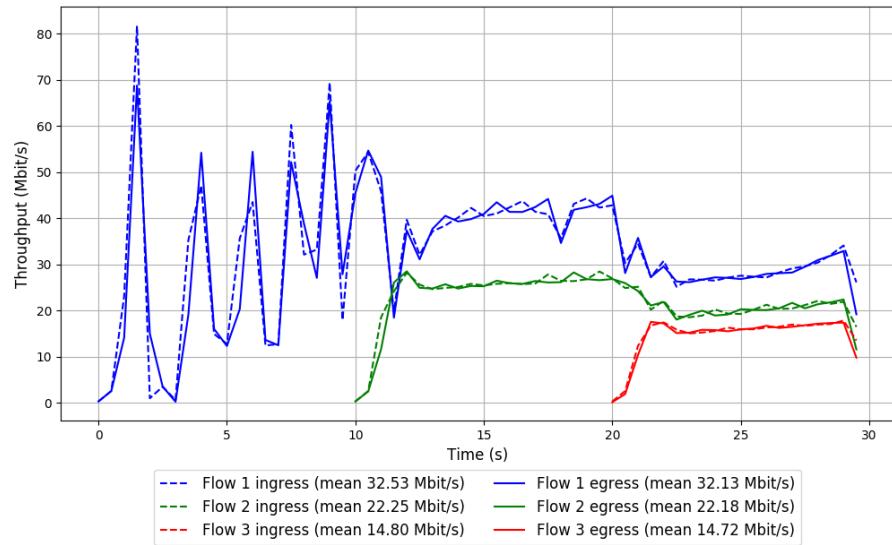


Run 9: Statistics of QUIC Cubic

```
Start at: 2018-04-17 16:21:21
End at: 2018-04-17 16:21:51
Local clock offset: -4.839 ms
Remote clock offset: 9.653 ms

# Below is generated by plot.py at 2018-04-17 20:41:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 51.60 Mbit/s
95th percentile per-packet one-way delay: 79.761 ms
Loss rate: 1.70%
-- Flow 1:
Average throughput: 32.13 Mbit/s
95th percentile per-packet one-way delay: 82.560 ms
Loss rate: 1.84%
-- Flow 2:
Average throughput: 22.18 Mbit/s
95th percentile per-packet one-way delay: 79.300 ms
Loss rate: 1.20%
-- Flow 3:
Average throughput: 14.72 Mbit/s
95th percentile per-packet one-way delay: 77.351 ms
Loss rate: 2.31%
```

Run 9: Report of QUIC Cubic — Data Link

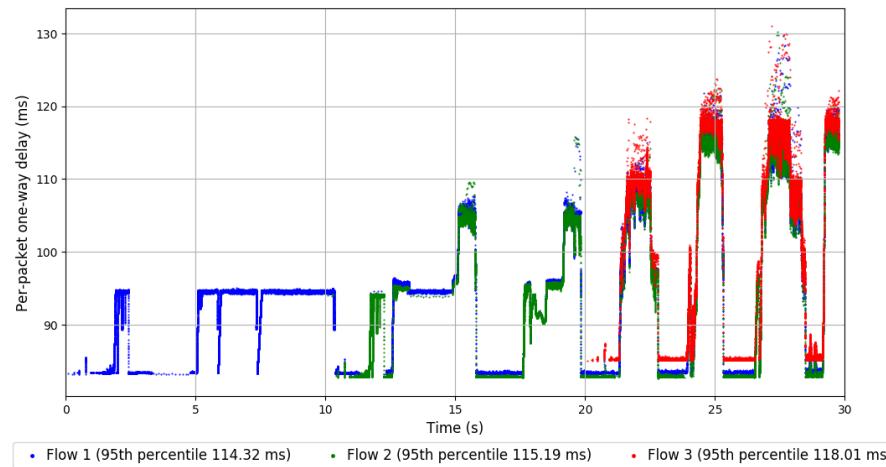
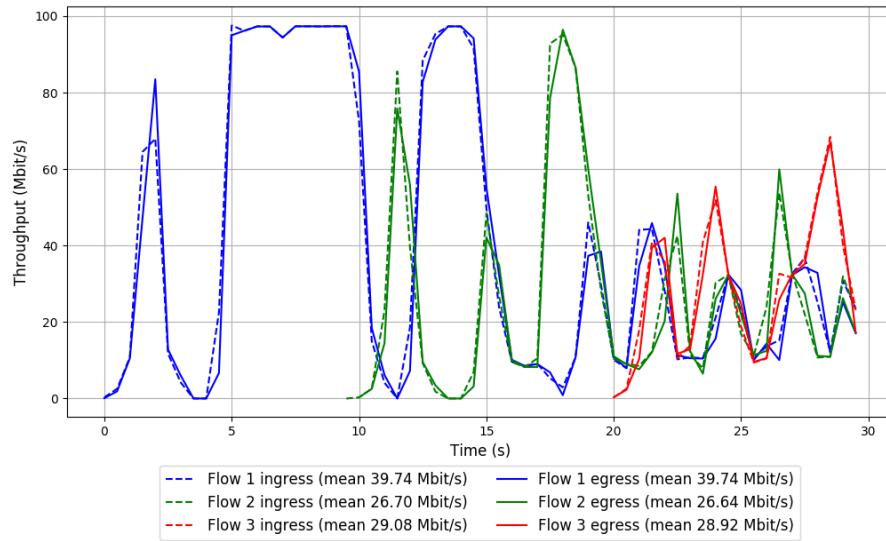


Run 10: Statistics of QUIC Cubic

```
Start at: 2018-04-17 16:43:42
End at: 2018-04-17 16:44:12
Local clock offset: -2.737 ms
Remote clock offset: 4.667 ms

# Below is generated by plot.py at 2018-04-17 20:41:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.82 Mbit/s
95th percentile per-packet one-way delay: 115.711 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 39.74 Mbit/s
95th percentile per-packet one-way delay: 114.318 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 26.64 Mbit/s
95th percentile per-packet one-way delay: 115.193 ms
Loss rate: 1.26%
-- Flow 3:
Average throughput: 28.92 Mbit/s
95th percentile per-packet one-way delay: 118.011 ms
Loss rate: 2.37%
```

Run 10: Report of QUIC Cubic — Data Link

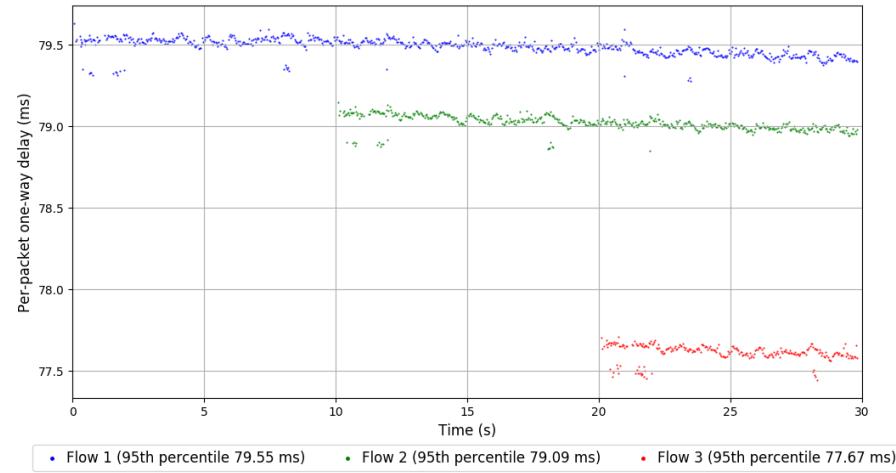
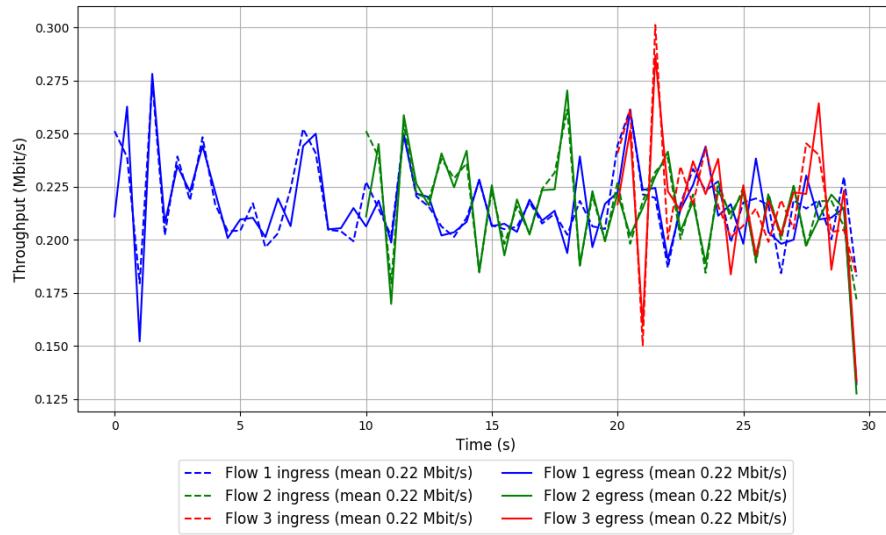


Run 1: Statistics of SCReAM

```
Start at: 2018-04-17 13:21:35
End at: 2018-04-17 13:22:05
Local clock offset: -6.445 ms
Remote clock offset: 10.918 ms

# Below is generated by plot.py at 2018-04-17 20:41:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 79.541 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.554 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.086 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 77.672 ms
Loss rate: 1.49%
```

Run 1: Report of SCReAM — Data Link

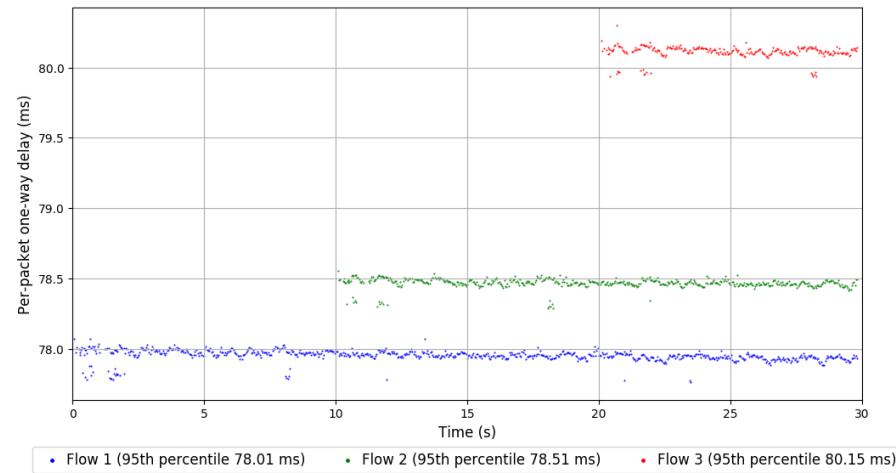
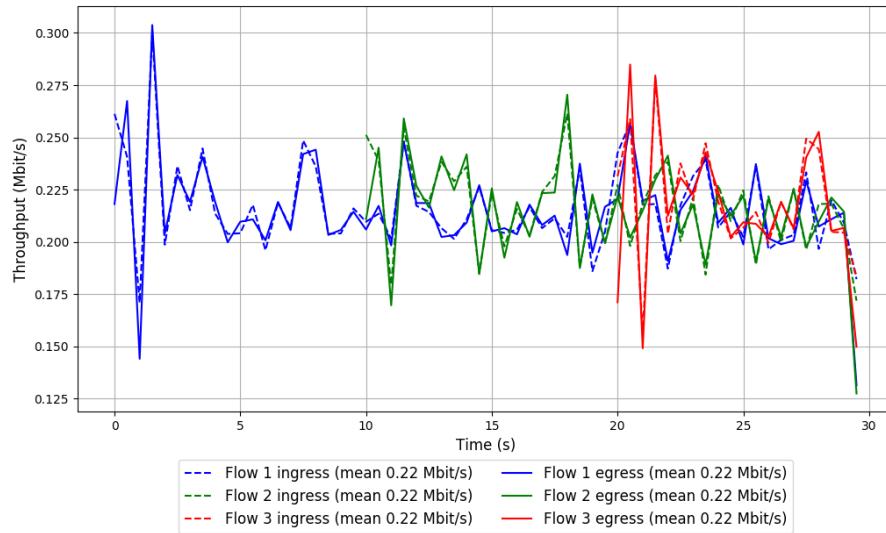


Run 2: Statistics of SCReAM

```
Start at: 2018-04-17 13:43:54
End at: 2018-04-17 13:44:24
Local clock offset: -2.038 ms
Remote clock offset: 11.708 ms

# Below is generated by plot.py at 2018-04-17 20:41:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 80.135 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 78.006 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 78.511 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 80.154 ms
Loss rate: 1.50%
```

Run 2: Report of SCReAM — Data Link

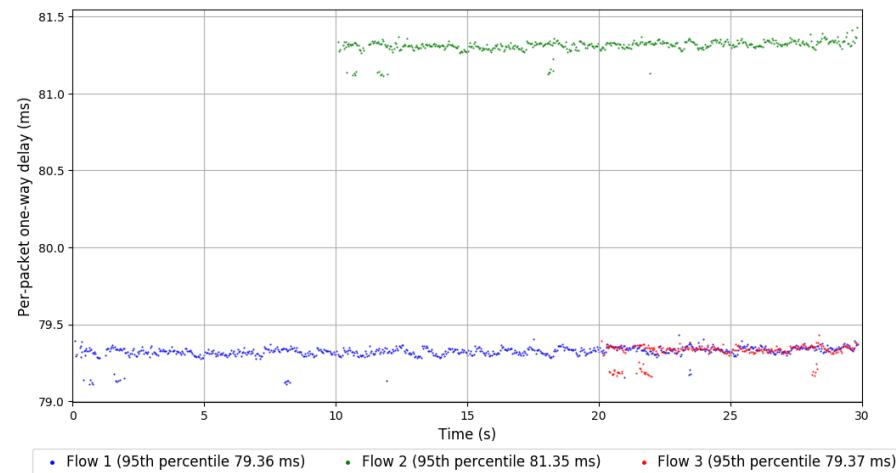
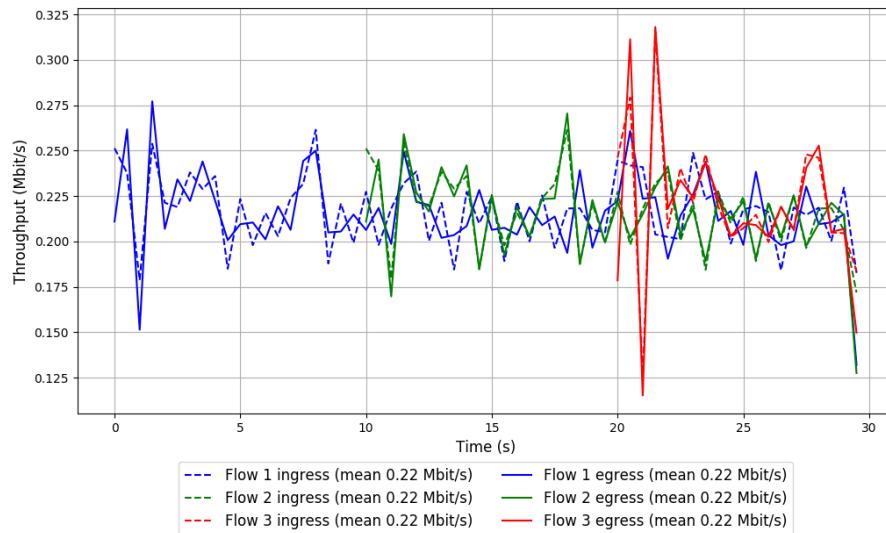


Run 3: Statistics of SCReAM

```
Start at: 2018-04-17 14:06:09
End at: 2018-04-17 14:06:39
Local clock offset: -4.314 ms
Remote clock offset: 10.403 ms

# Below is generated by plot.py at 2018-04-17 20:41:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 81.337 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.362 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.352 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.368 ms
Loss rate: 1.48%
```

Run 3: Report of SCReAM — Data Link

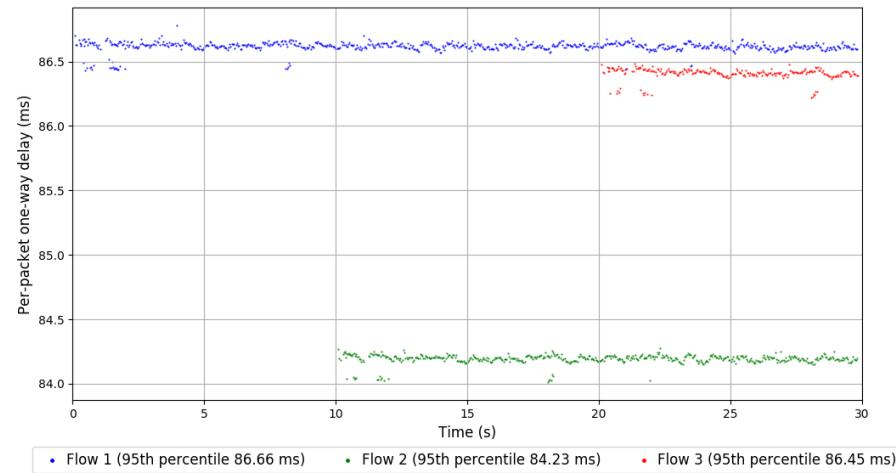
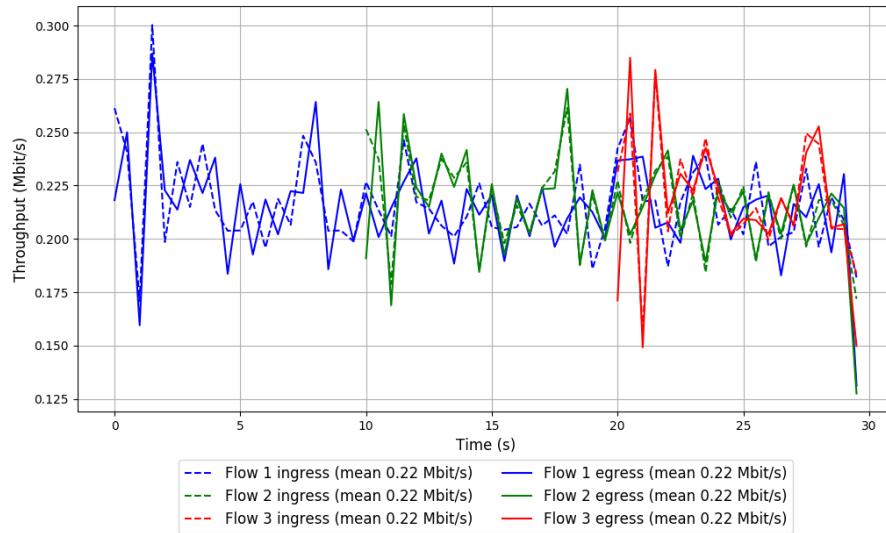


Run 4: Statistics of SCReAM

```
Start at: 2018-04-17 14:28:21
End at: 2018-04-17 14:28:51
Local clock offset: -5.161 ms
Remote clock offset: 5.31 ms

# Below is generated by plot.py at 2018-04-17 20:41:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 86.651 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.659 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.230 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.451 ms
Loss rate: 1.50%
```

Run 4: Report of SCReAM — Data Link

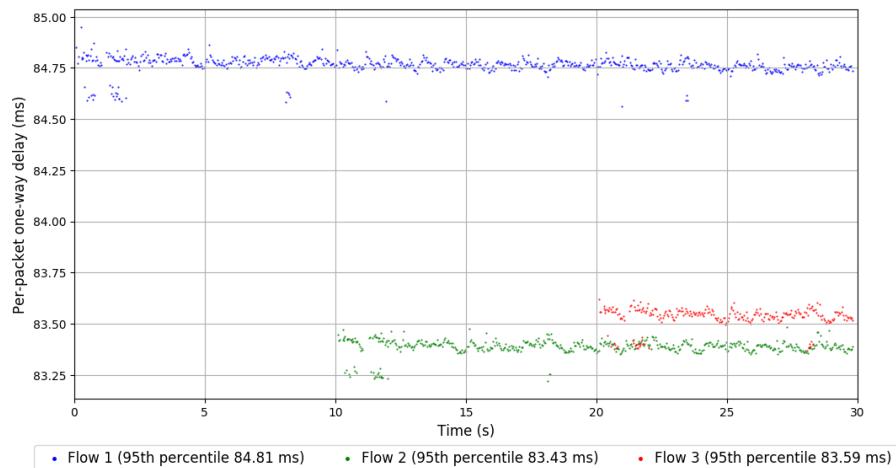
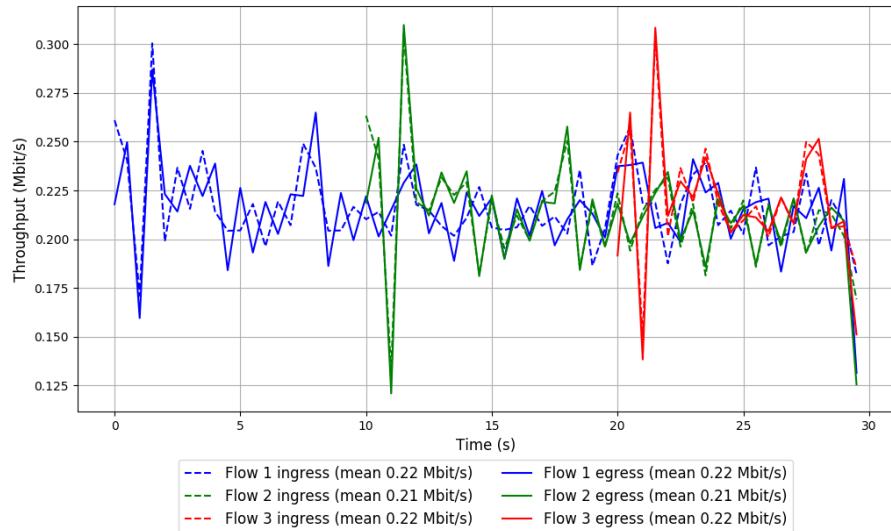


Run 5: Statistics of SCReAM

```
Start at: 2018-04-17 14:50:40
End at: 2018-04-17 14:51:10
Local clock offset: -5.424 ms
Remote clock offset: 5.439 ms

# Below is generated by plot.py at 2018-04-17 20:41:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 84.803 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.812 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 83.431 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.586 ms
Loss rate: 1.50%
```

Run 5: Report of SCReAM — Data Link

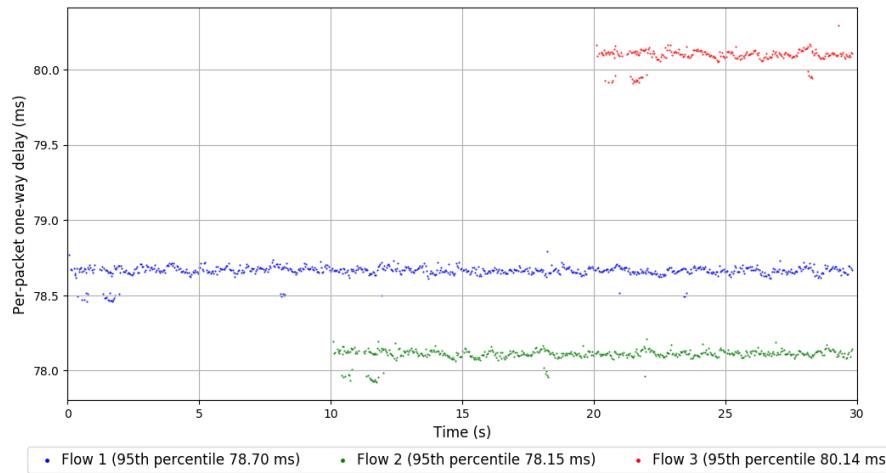
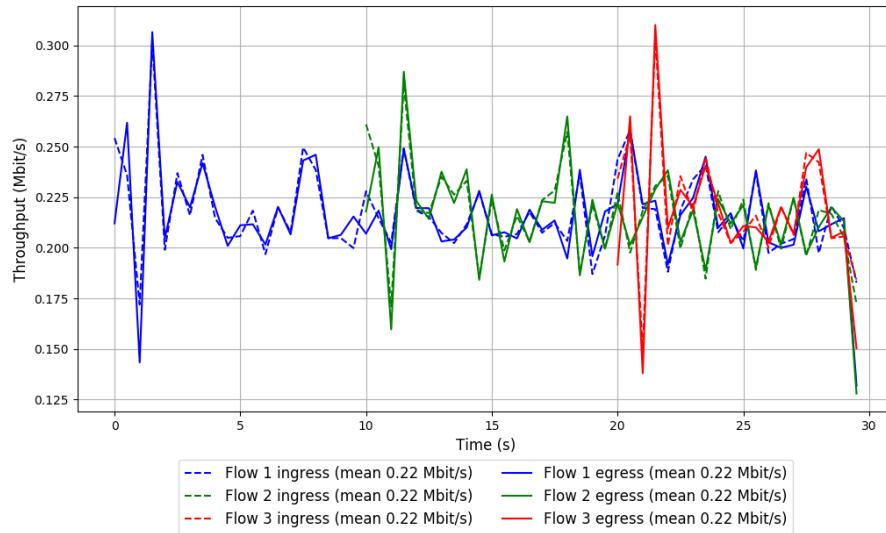


Run 6: Statistics of SCReAM

```
Start at: 2018-04-17 15:13:02
End at: 2018-04-17 15:13:32
Local clock offset: -6.193 ms
Remote clock offset: 10.295 ms

# Below is generated by plot.py at 2018-04-17 20:41:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 80.113 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 78.705 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 78.148 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 80.140 ms
Loss rate: 1.50%
```

Run 6: Report of SCReAM — Data Link

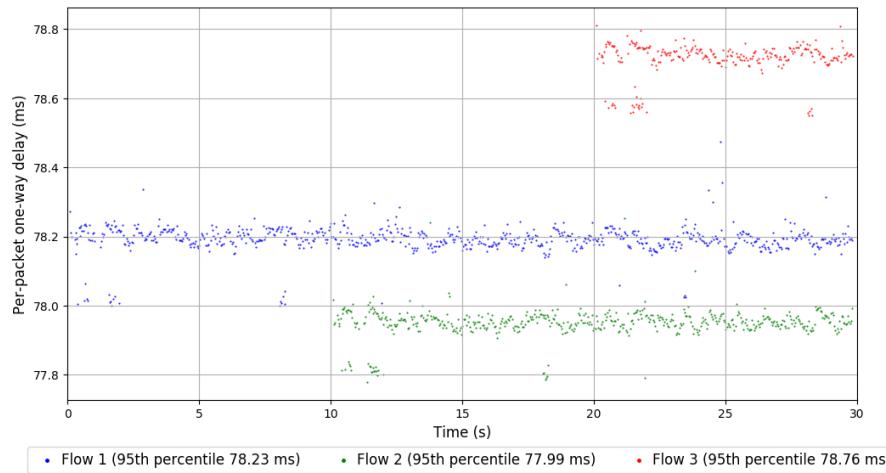
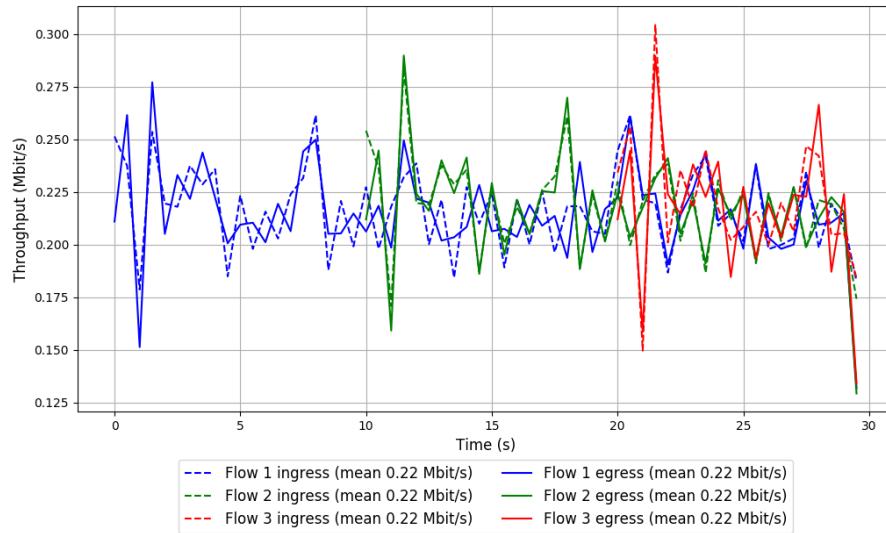


Run 7: Statistics of SCReAM

```
Start at: 2018-04-17 15:35:22
End at: 2018-04-17 15:35:52
Local clock offset: -4.789 ms
Remote clock offset: 12.608 ms

# Below is generated by plot.py at 2018-04-17 20:41:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 78.738 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 78.233 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 77.991 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 78.761 ms
Loss rate: 1.50%
```

Run 7: Report of SCReAM — Data Link

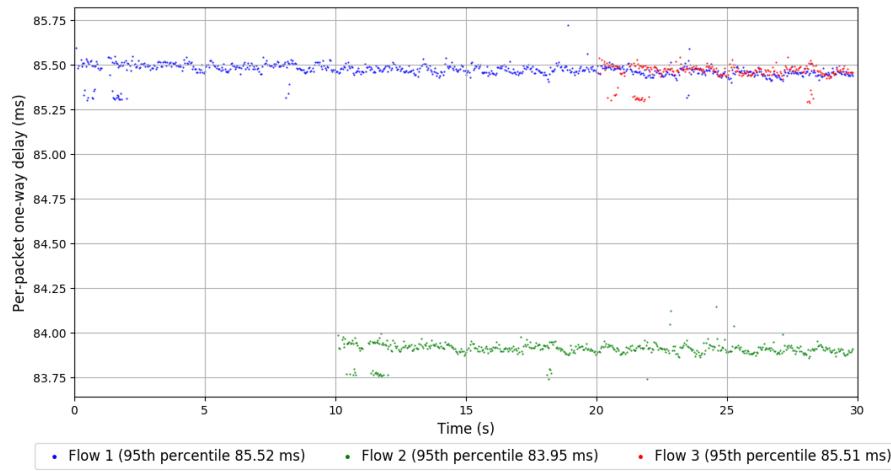
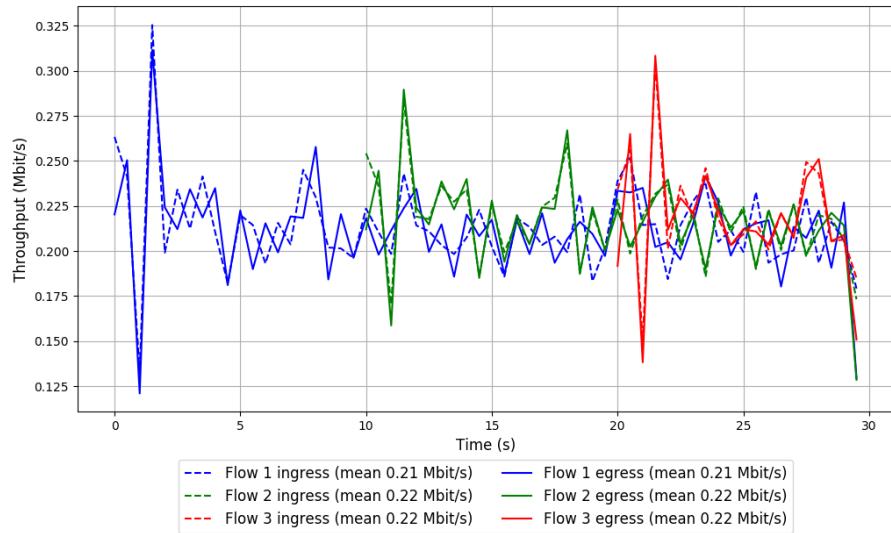


Run 8: Statistics of SCReAM

```
Start at: 2018-04-17 15:57:41
End at: 2018-04-17 15:58:11
Local clock offset: -5.653 ms
Remote clock offset: 3.985 ms

# Below is generated by plot.py at 2018-04-17 20:41:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 85.512 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 85.518 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.953 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.509 ms
Loss rate: 1.50%
```

Run 8: Report of SCReAM — Data Link

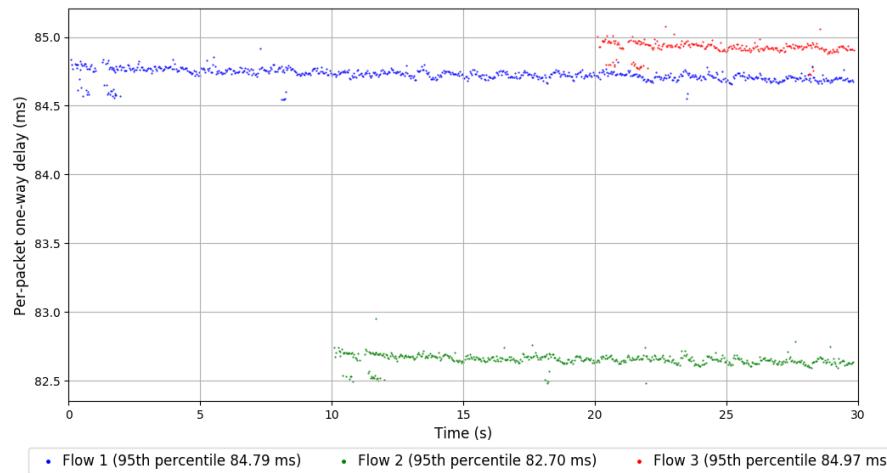
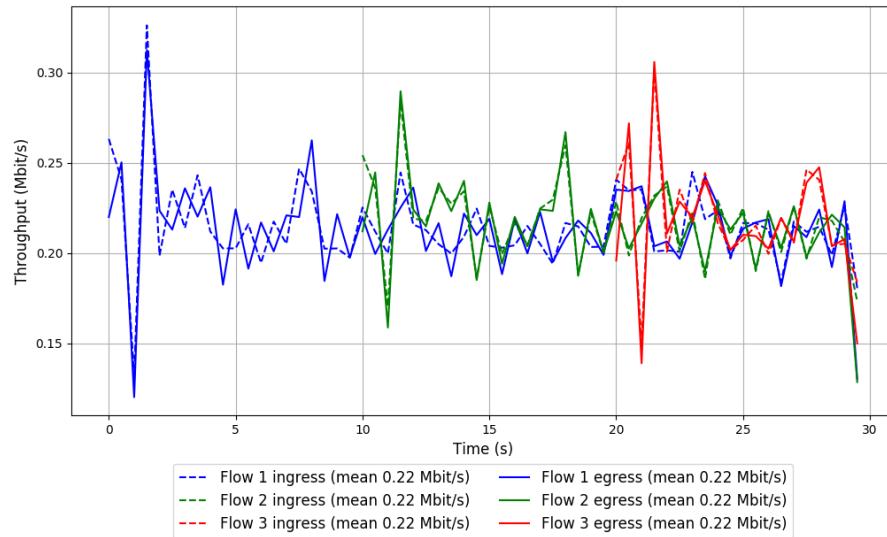


Run 9: Statistics of SCReAM

```
Start at: 2018-04-17 16:20:07
End at: 2018-04-17 16:20:37
Local clock offset: -5.085 ms
Remote clock offset: 3.936 ms

# Below is generated by plot.py at 2018-04-17 20:41:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 84.942 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.789 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.704 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.975 ms
Loss rate: 1.49%
```

Run 9: Report of SCReAM — Data Link

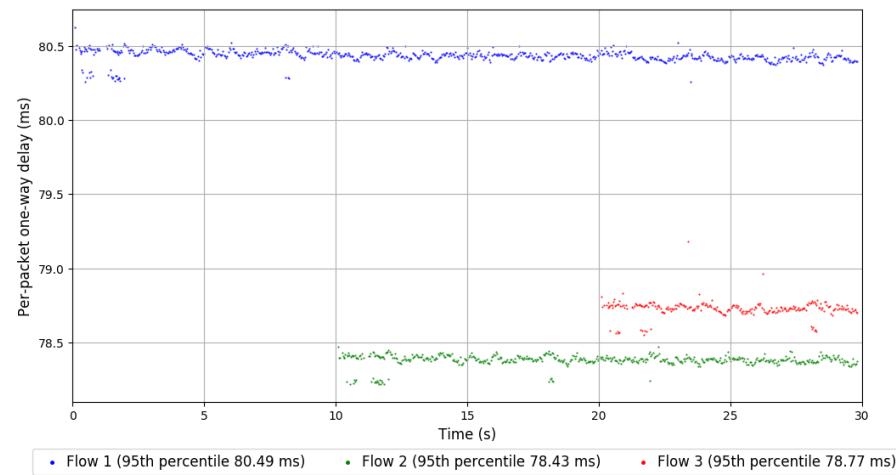
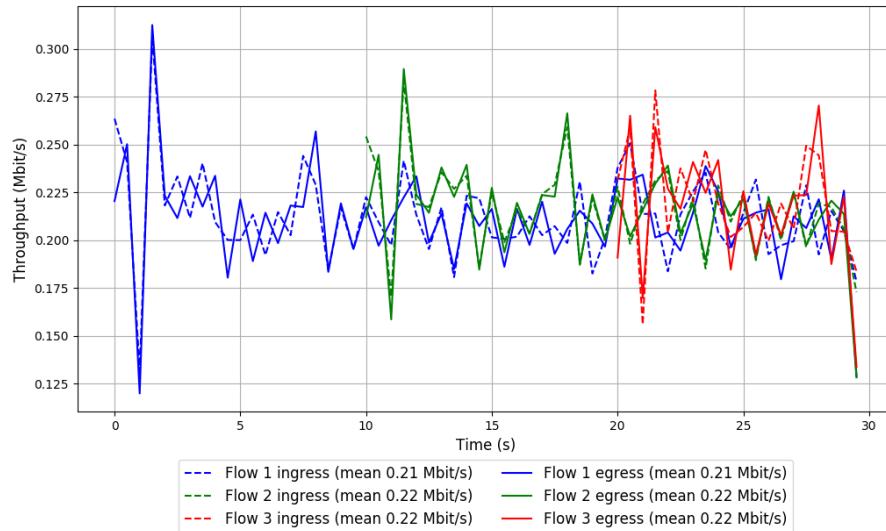


Run 10: Statistics of SCReAM

```
Start at: 2018-04-17 16:42:28
End at: 2018-04-17 16:42:58
Local clock offset: -2.785 ms
Remote clock offset: 9.427 ms

# Below is generated by plot.py at 2018-04-17 20:41:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 80.479 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 80.492 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 78.427 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 78.774 ms
Loss rate: 1.50%
```

Run 10: Report of SCReAM — Data Link

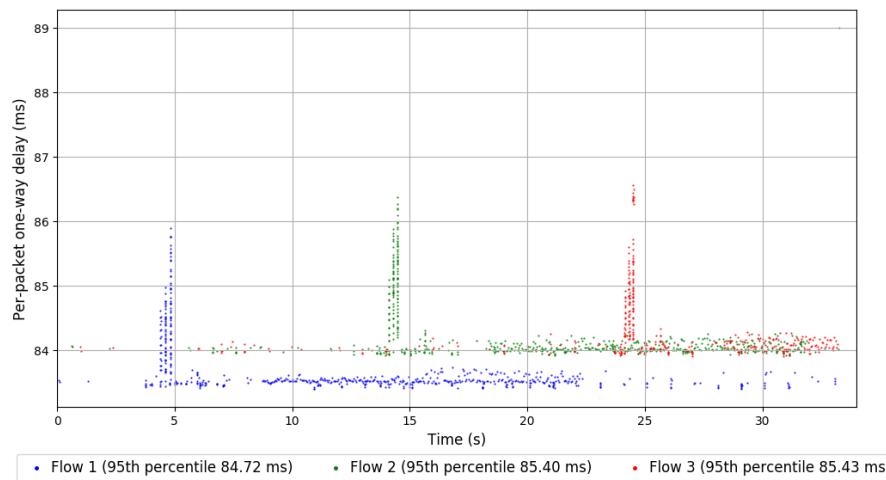
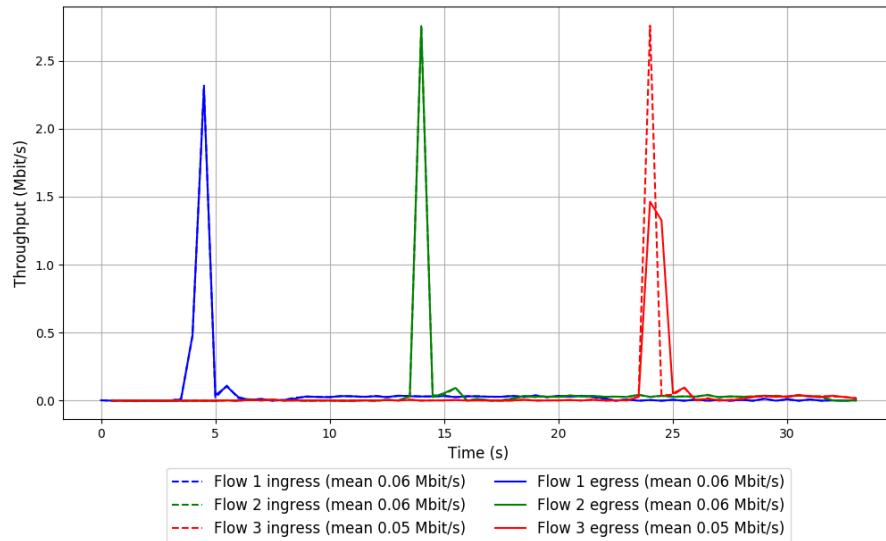


```
Run 1: Statistics of WebRTC media

Start at: 2018-04-17 13:05:24
End at: 2018-04-17 13:05:54
Local clock offset: -5.682 ms
Remote clock offset: 5.196 ms

# Below is generated by plot.py at 2018-04-17 20:41:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 85.249 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 84.723 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 85.402 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 85.426 ms
Loss rate: 0.28%
```

Run 1: Report of WebRTC media — Data Link

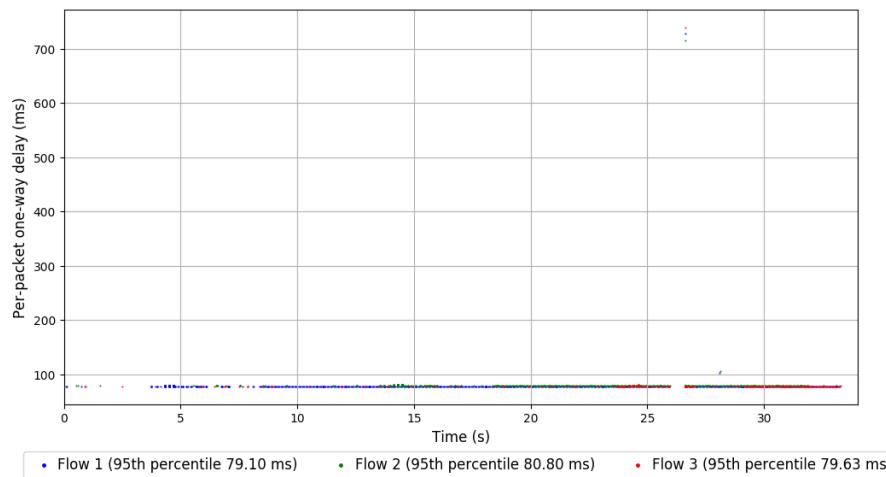
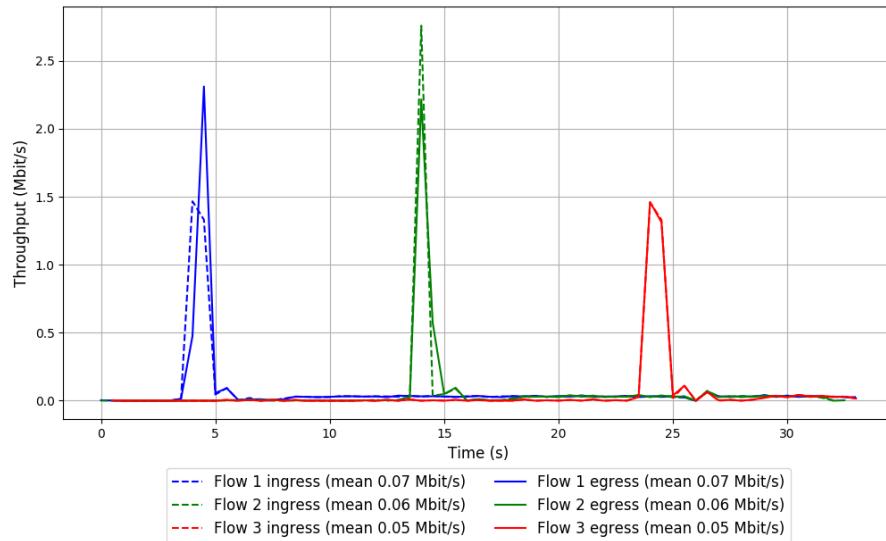


Run 2: Statistics of WebRTC media

```
Start at: 2018-04-17 13:28:05
End at: 2018-04-17 13:28:35
Local clock offset: -4.032 ms
Remote clock offset: 11.271 ms

# Below is generated by plot.py at 2018-04-17 20:41:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 80.101 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 79.101 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 80.804 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 79.633 ms
Loss rate: 0.23%
```

Run 2: Report of WebRTC media — Data Link

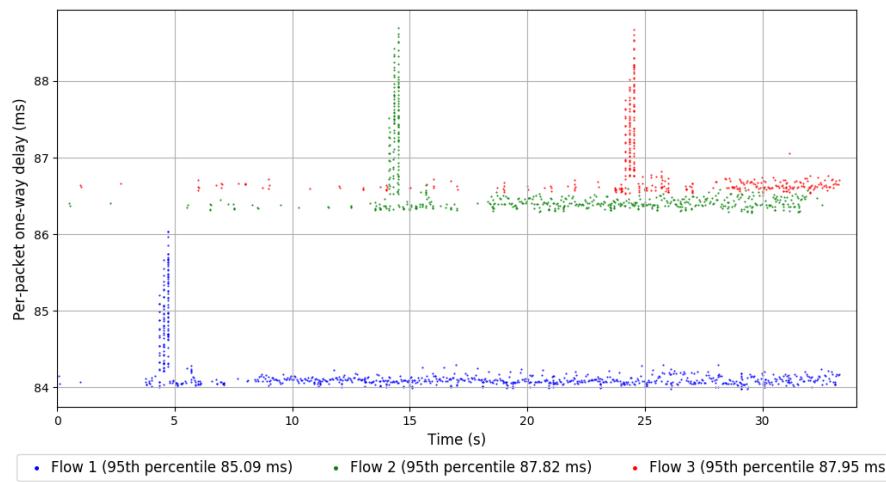
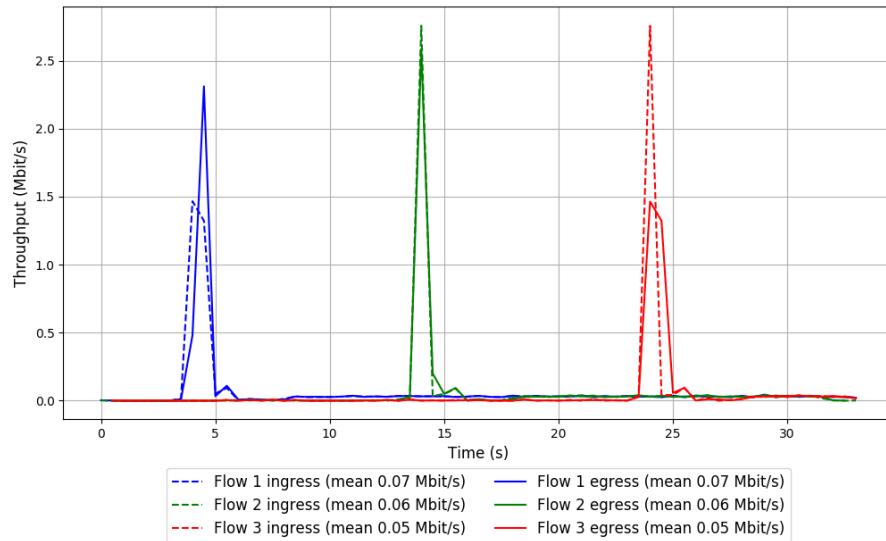


Run 3: Statistics of WebRTC media

```
Start at: 2018-04-17 13:50:24
End at: 2018-04-17 13:50:54
Local clock offset: -0.854 ms
Remote clock offset: 6.264 ms

# Below is generated by plot.py at 2018-04-17 20:41:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 87.580 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 85.093 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 87.818 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 87.954 ms
Loss rate: 0.27%
```

Run 3: Report of WebRTC media — Data Link

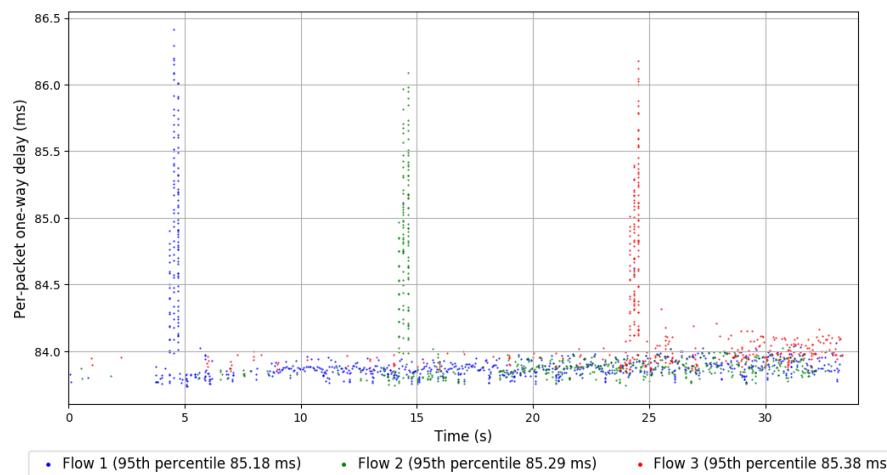
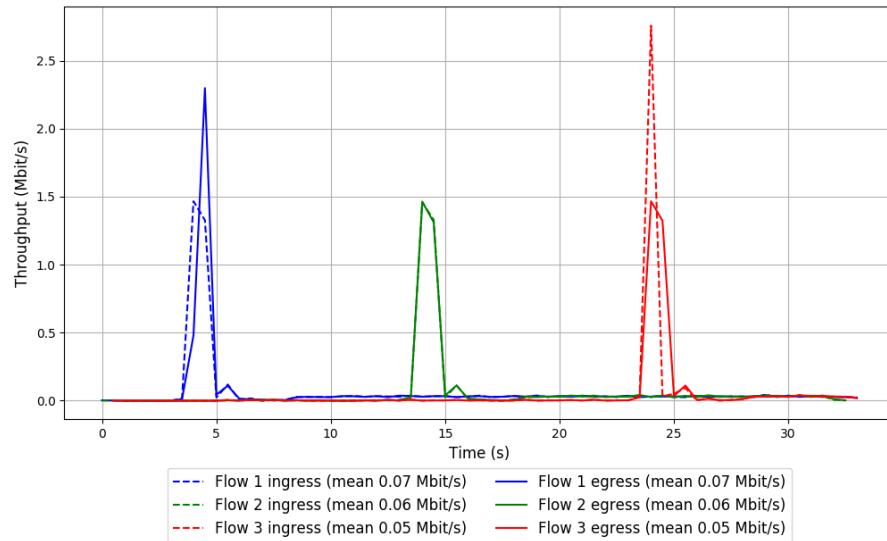


Run 4: Statistics of WebRTC media

```
Start at: 2018-04-17 14:12:39
End at: 2018-04-17 14:13:09
Local clock offset: -5.994 ms
Remote clock offset: 6.278 ms

# Below is generated by plot.py at 2018-04-17 20:41:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 85.286 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 85.176 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 85.286 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 85.381 ms
Loss rate: 0.23%
```

Run 4: Report of WebRTC media — Data Link

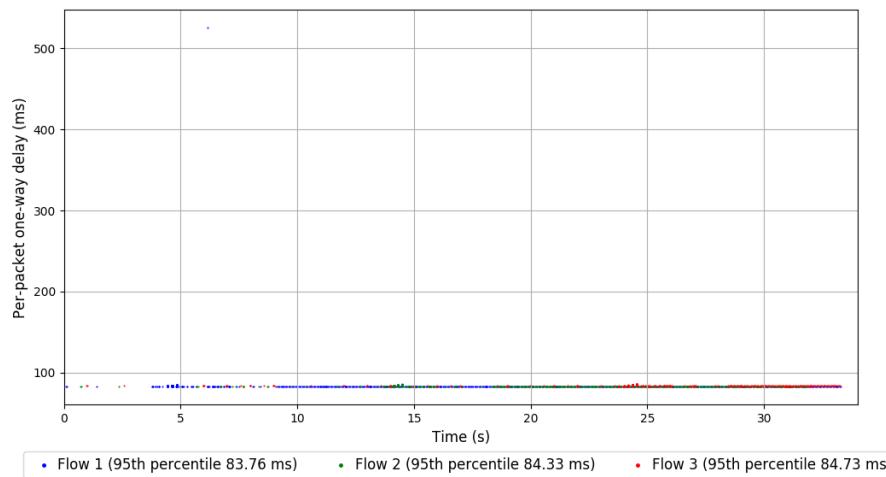
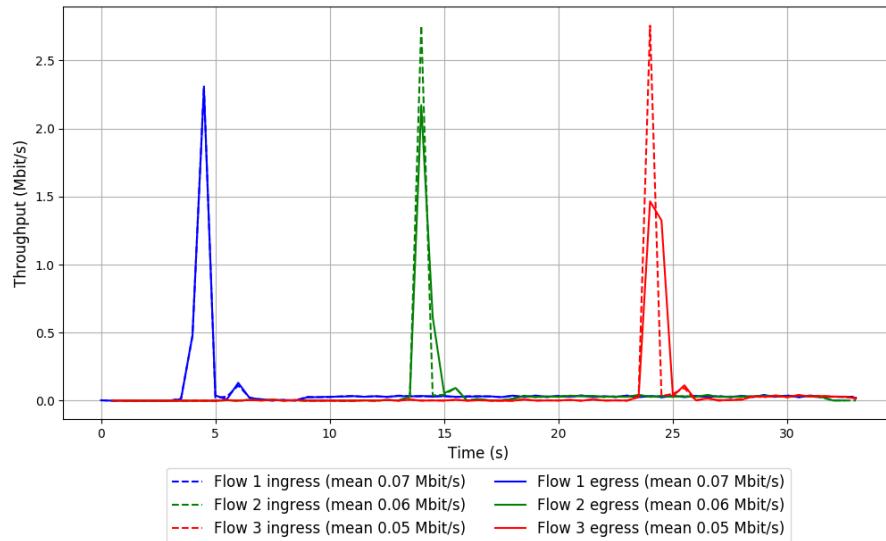


Run 5: Statistics of WebRTC media

```
Start at: 2018-04-17 14:34:51
End at: 2018-04-17 14:35:21
Local clock offset: -5.712 ms
Remote clock offset: 5.772 ms

# Below is generated by plot.py at 2018-04-17 20:41:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 84.285 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 83.760 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 84.326 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 84.734 ms
Loss rate: 0.31%
```

Run 5: Report of WebRTC media — Data Link

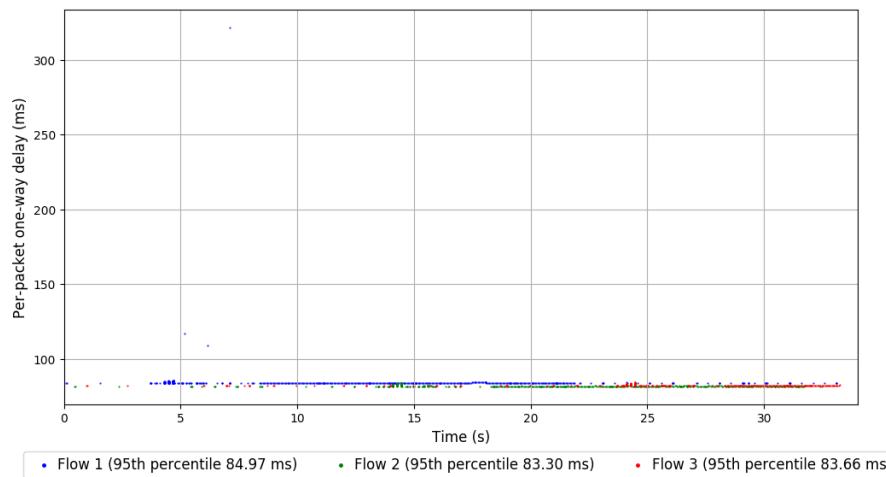
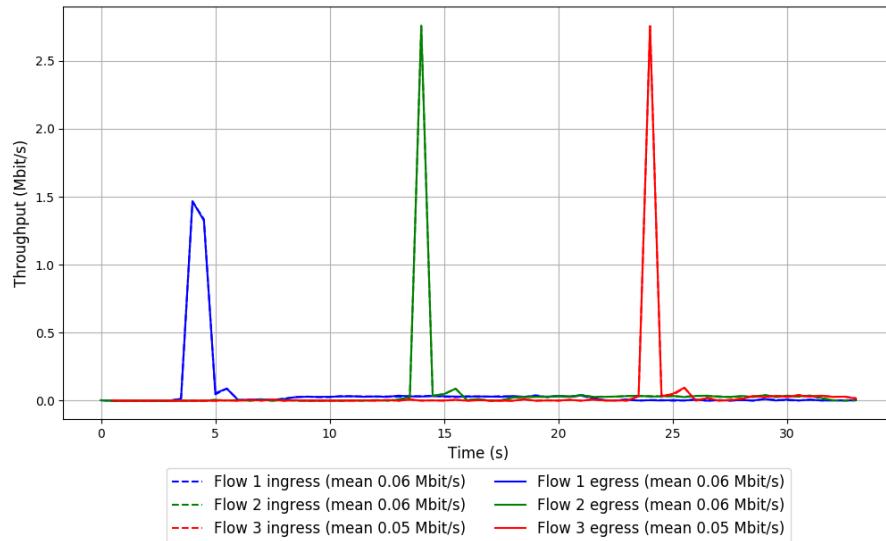


Run 6: Statistics of WebRTC media

```
Start at: 2018-04-17 14:57:17
End at: 2018-04-17 14:57:47
Local clock offset: -6.203 ms
Remote clock offset: 5.376 ms

# Below is generated by plot.py at 2018-04-17 20:41:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 84.405 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 84.968 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 83.301 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 83.663 ms
Loss rate: 0.23%
```

Run 6: Report of WebRTC media — Data Link

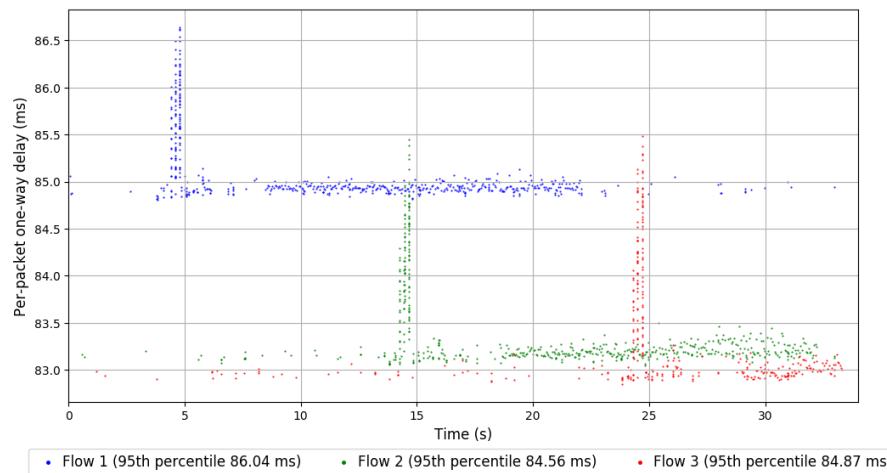
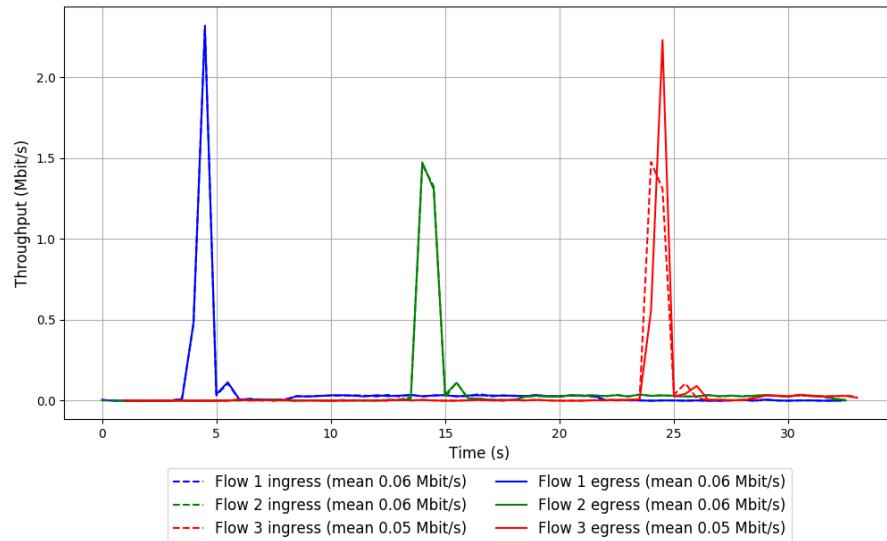


Run 7: Statistics of WebRTC media

```
Start at: 2018-04-17 15:19:34
End at: 2018-04-17 15:20:04
Local clock offset: -5.467 ms
Remote clock offset: 6.626 ms

# Below is generated by plot.py at 2018-04-17 20:41:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 85.567 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 86.036 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 84.562 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 84.870 ms
Loss rate: 0.31%
```

Run 7: Report of WebRTC media — Data Link

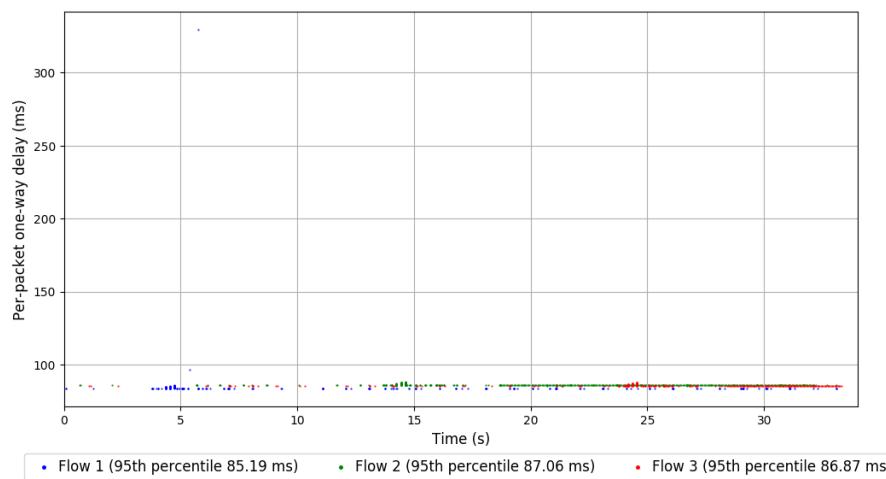
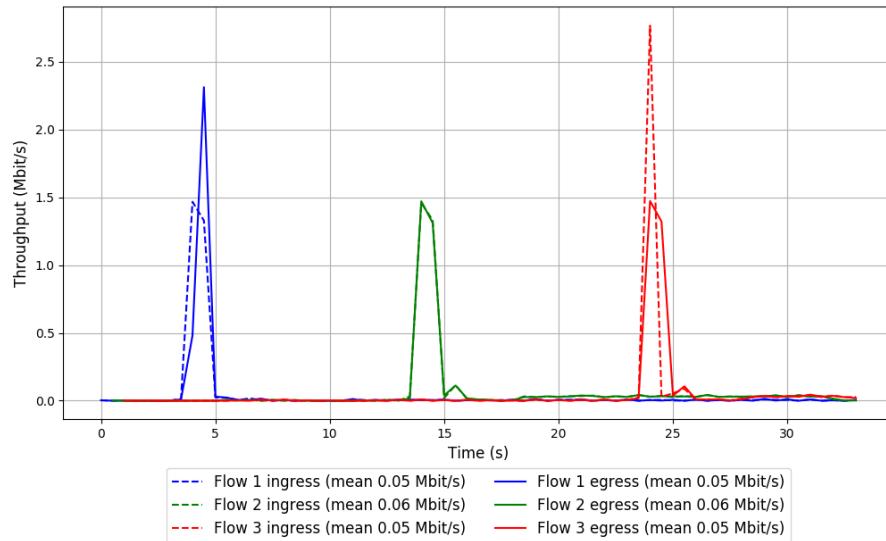


Run 8: Statistics of WebRTC media

```
Start at: 2018-04-17 15:41:53
End at: 2018-04-17 15:42:23
Local clock offset: -4.79 ms
Remote clock offset: 6.236 ms

# Below is generated by plot.py at 2018-04-17 20:41:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 86.888 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 85.189 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 87.059 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.874 ms
Loss rate: 0.35%
```

Run 8: Report of WebRTC media — Data Link

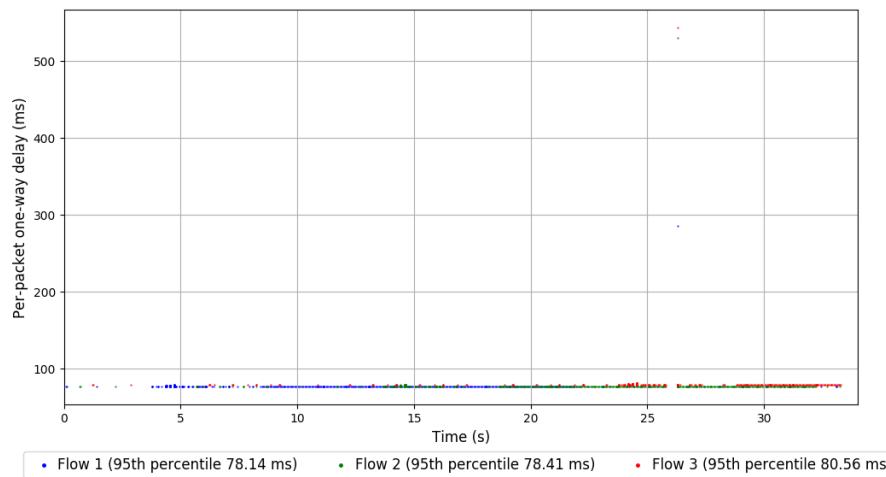
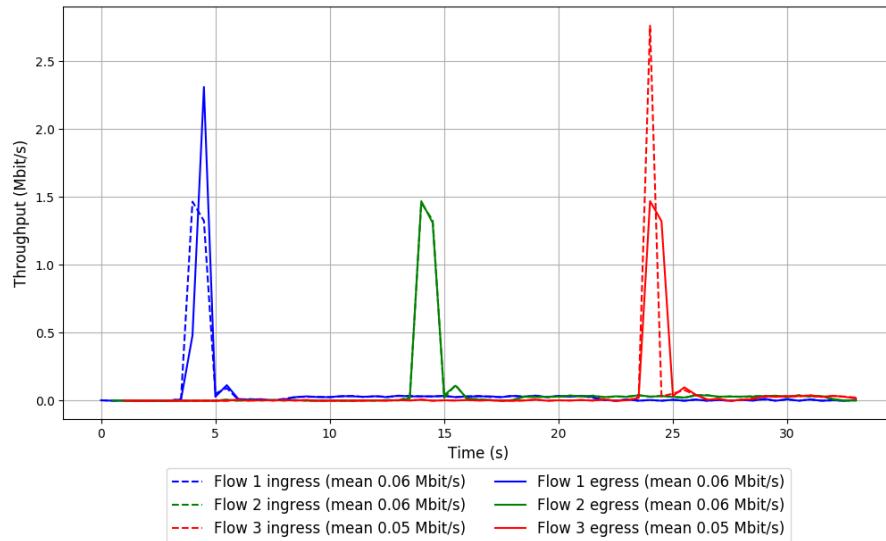


Run 9: Statistics of WebRTC media

```
Start at: 2018-04-17 16:04:12
End at: 2018-04-17 16:04:42
Local clock offset: -6.335 ms
Remote clock offset: 9.477 ms

# Below is generated by plot.py at 2018-04-17 20:41:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 79.786 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 78.141 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 78.408 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 80.558 ms
Loss rate: 0.31%
```

Run 9: Report of WebRTC media — Data Link

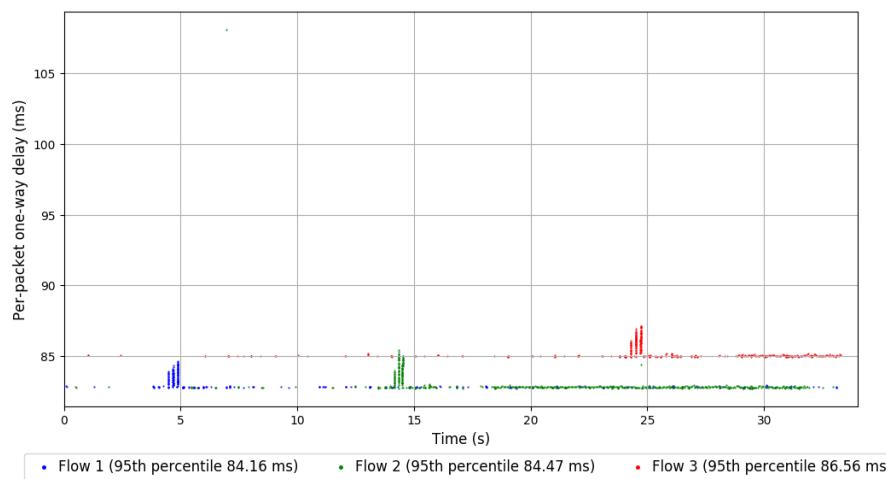
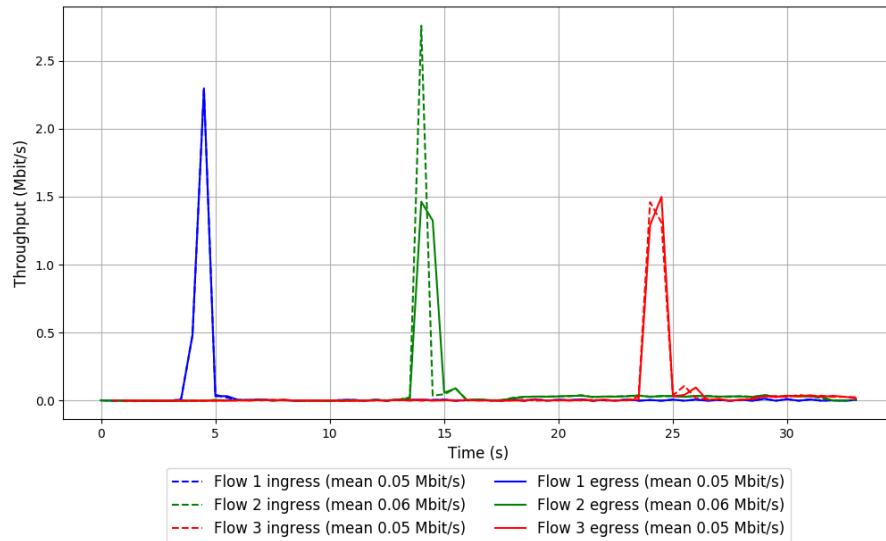


Run 10: Statistics of WebRTC media

```
Start at: 2018-04-17 16:26:37
End at: 2018-04-17 16:27:07
Local clock offset: -3.607 ms
Remote clock offset: 4.822 ms

# Below is generated by plot.py at 2018-04-17 20:41:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 85.950 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 84.157 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 84.472 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.564 ms
Loss rate: 0.35%
```

Run 10: Report of WebRTC media — Data Link

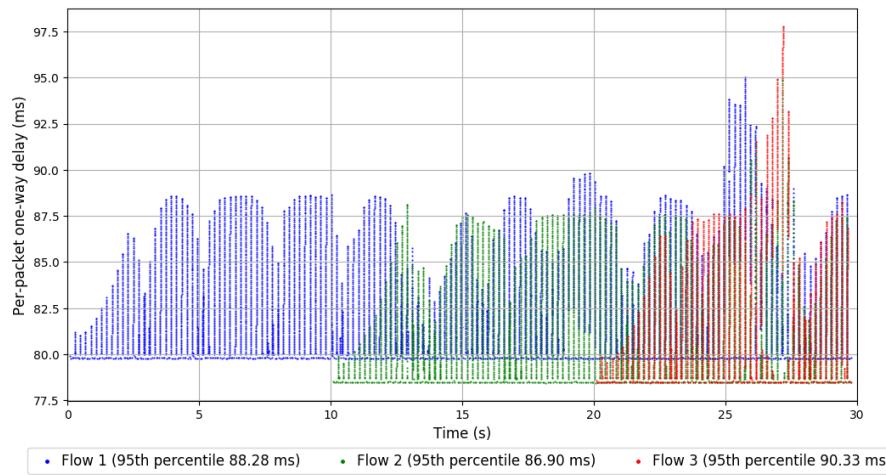
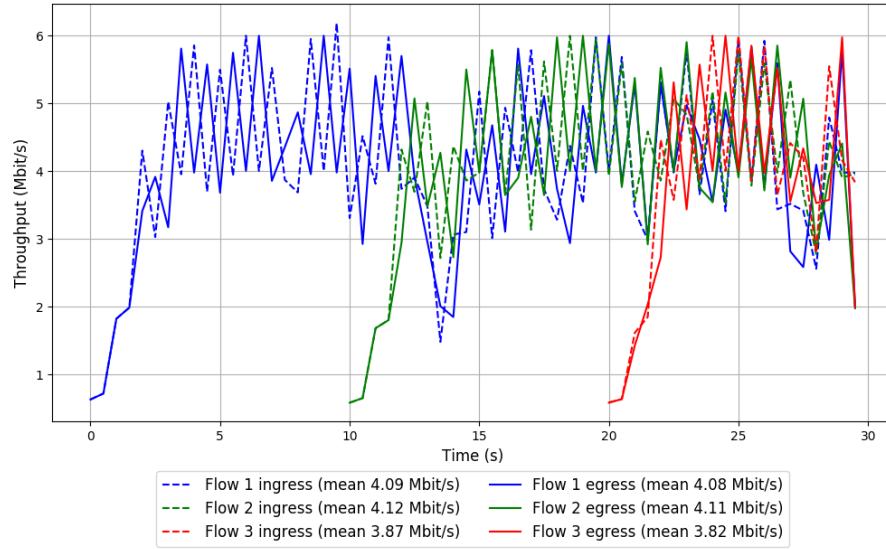


Run 1: Statistics of Sprout

```
Start at: 2018-04-17 13:14:44
End at: 2018-04-17 13:15:14
Local clock offset: -5.672 ms
Remote clock offset: 10.839 ms

# Below is generated by plot.py at 2018-04-17 20:41:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.05 Mbit/s
95th percentile per-packet one-way delay: 88.031 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 4.08 Mbit/s
95th percentile per-packet one-way delay: 88.276 ms
Loss rate: 0.81%
-- Flow 2:
Average throughput: 4.11 Mbit/s
95th percentile per-packet one-way delay: 86.896 ms
Loss rate: 1.21%
-- Flow 3:
Average throughput: 3.82 Mbit/s
95th percentile per-packet one-way delay: 90.331 ms
Loss rate: 2.63%
```

Run 1: Report of Sprout — Data Link

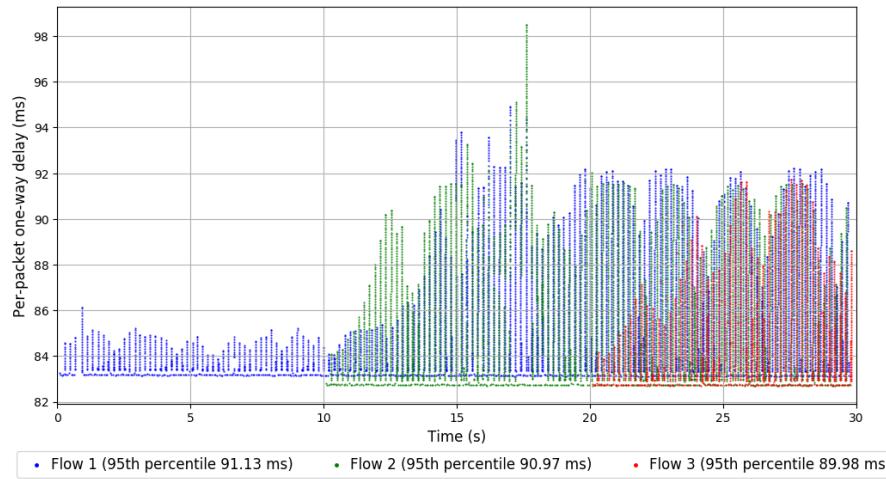
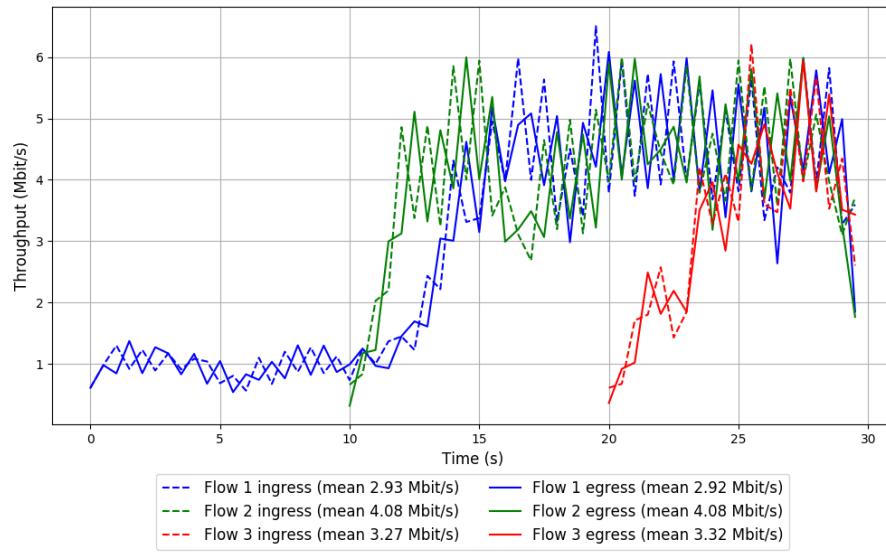


Run 2: Statistics of Sprout

```
Start at: 2018-04-17 13:37:14
End at: 2018-04-17 13:37:44
Local clock offset: -2.628 ms
Remote clock offset: 6.731 ms

# Below is generated by plot.py at 2018-04-17 20:41:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.70 Mbit/s
95th percentile per-packet one-way delay: 90.921 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 2.92 Mbit/s
95th percentile per-packet one-way delay: 91.129 ms
Loss rate: 1.00%
-- Flow 2:
Average throughput: 4.08 Mbit/s
95th percentile per-packet one-way delay: 90.967 ms
Loss rate: 1.20%
-- Flow 3:
Average throughput: 3.32 Mbit/s
95th percentile per-packet one-way delay: 89.981 ms
Loss rate: 0.01%
```

Run 2: Report of Sprout — Data Link

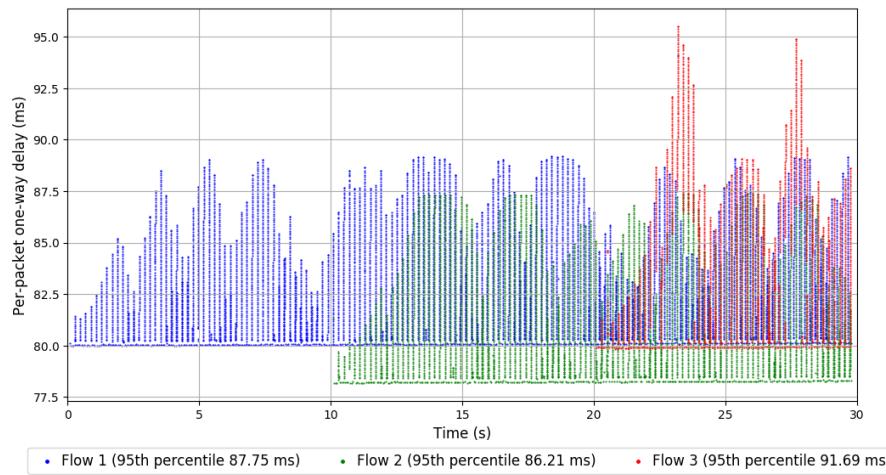
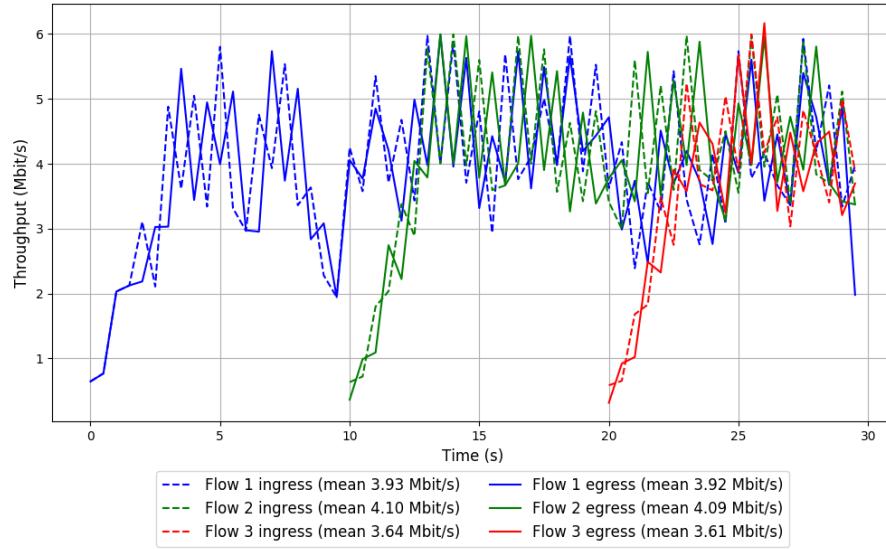


Run 3: Statistics of Sprout

```
Start at: 2018-04-17 13:59:33
End at: 2018-04-17 14:00:03
Local clock offset: -2.6 ms
Remote clock offset: 11.598 ms

# Below is generated by plot.py at 2018-04-17 20:41:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.80 Mbit/s
95th percentile per-packet one-way delay: 87.891 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 3.92 Mbit/s
95th percentile per-packet one-way delay: 87.751 ms
Loss rate: 0.85%
-- Flow 2:
Average throughput: 4.09 Mbit/s
95th percentile per-packet one-way delay: 86.206 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 3.61 Mbit/s
95th percentile per-packet one-way delay: 91.692 ms
Loss rate: 2.76%
```

Run 3: Report of Sprout — Data Link

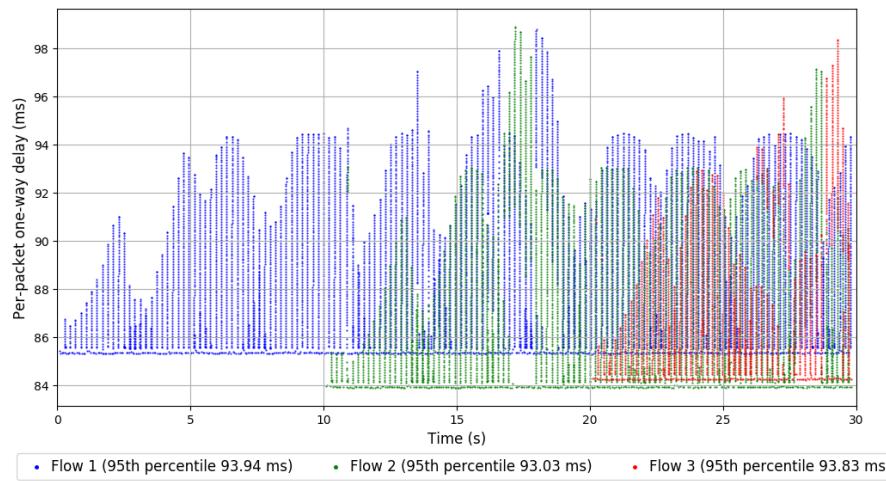
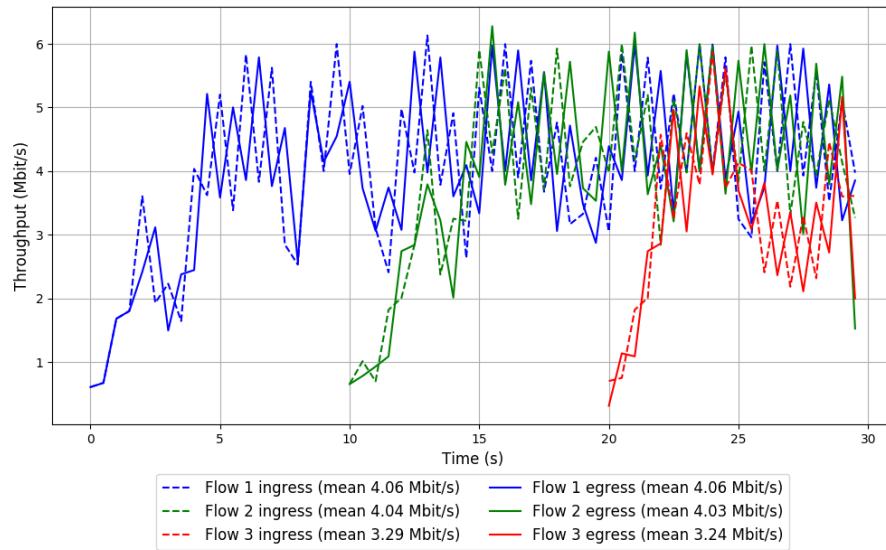


Run 4: Statistics of Sprout

```
Start at: 2018-04-17 14:21:43
End at: 2018-04-17 14:22:13
Local clock offset: -5.705 ms
Remote clock offset: 5.32 ms

# Below is generated by plot.py at 2018-04-17 20:41:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.78 Mbit/s
95th percentile per-packet one-way delay: 93.807 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 4.06 Mbit/s
95th percentile per-packet one-way delay: 93.942 ms
Loss rate: 0.82%
-- Flow 2:
Average throughput: 4.03 Mbit/s
95th percentile per-packet one-way delay: 93.031 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 3.24 Mbit/s
95th percentile per-packet one-way delay: 93.829 ms
Loss rate: 2.76%
```

Run 4: Report of Sprout — Data Link

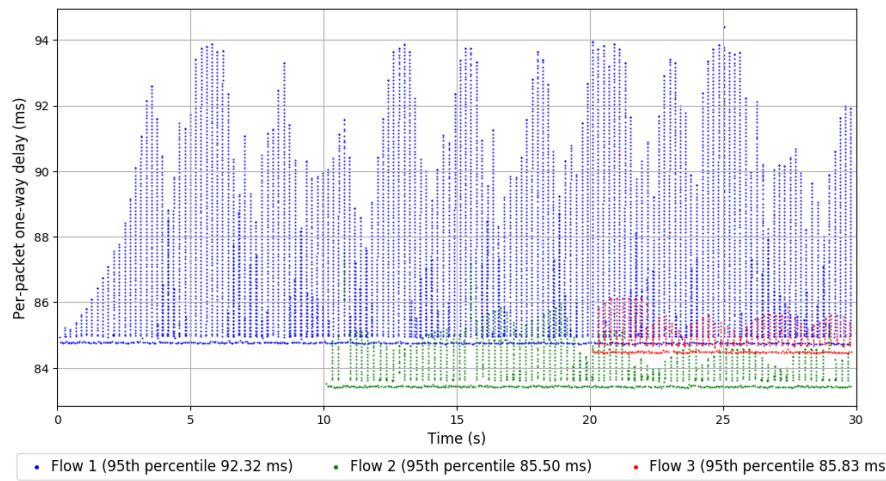
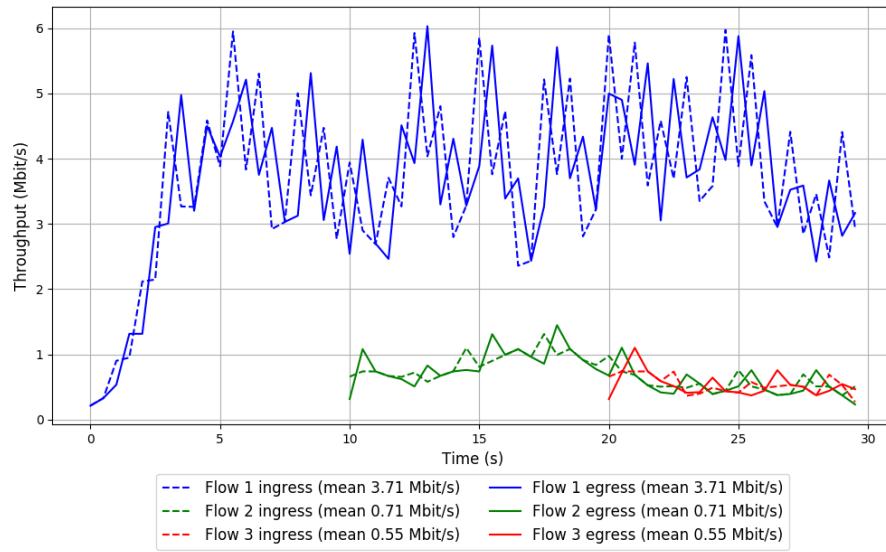


Run 5: Statistics of Sprout

```
Start at: 2018-04-17 14:44:01
End at: 2018-04-17 14:44:31
Local clock offset: -6.186 ms
Remote clock offset: 4.755 ms

# Below is generated by plot.py at 2018-04-17 20:41:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.36 Mbit/s
95th percentile per-packet one-way delay: 92.037 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 3.71 Mbit/s
95th percentile per-packet one-way delay: 92.324 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 0.71 Mbit/s
95th percentile per-packet one-way delay: 85.505 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 85.832 ms
Loss rate: 0.39%
```

Run 5: Report of Sprout — Data Link

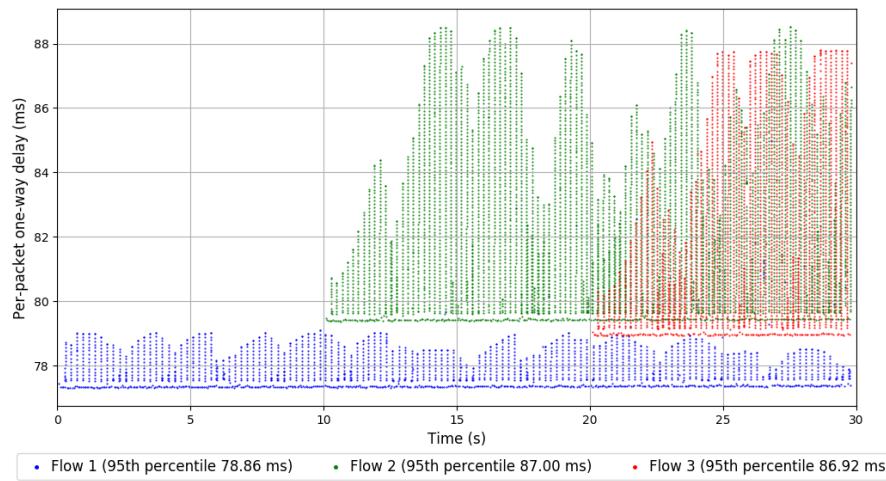
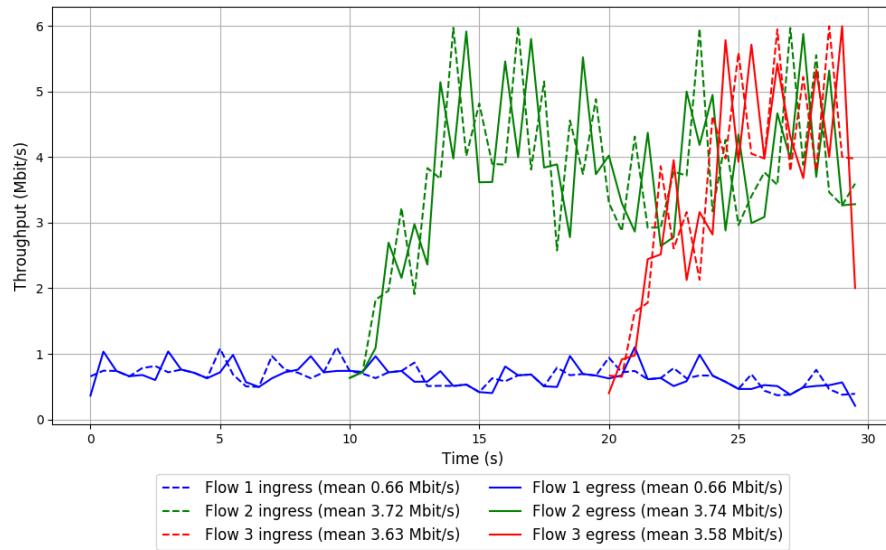


Run 6: Statistics of Sprout

```
Start at: 2018-04-17 15:06:28
End at: 2018-04-17 15:06:58
Local clock offset: -5.442 ms
Remote clock offset: 11.454 ms

# Below is generated by plot.py at 2018-04-17 20:41:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.31 Mbit/s
95th percentile per-packet one-way delay: 86.764 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 78.861 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 3.74 Mbit/s
95th percentile per-packet one-way delay: 86.998 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 3.58 Mbit/s
95th percentile per-packet one-way delay: 86.918 ms
Loss rate: 2.76%
```

Run 6: Report of Sprout — Data Link

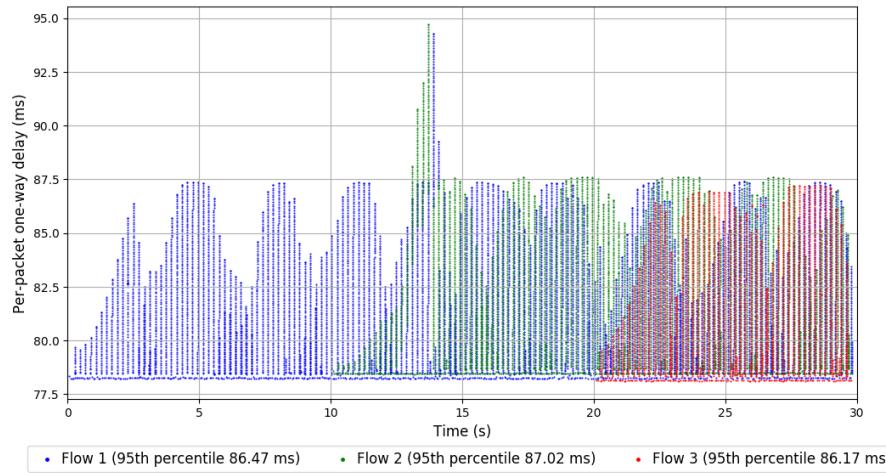
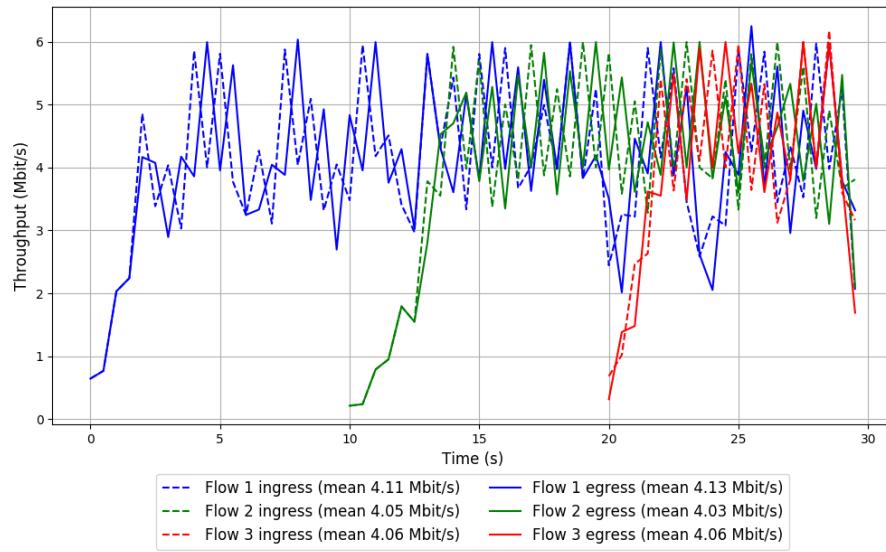


Run 7: Statistics of Sprout

```
Start at: 2018-04-17 15:28:44
End at: 2018-04-17 15:29:14
Local clock offset: -5.582 ms
Remote clock offset: 11.724 ms

# Below is generated by plot.py at 2018-04-17 20:41:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.13 Mbit/s
95th percentile per-packet one-way delay: 86.618 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 4.13 Mbit/s
95th percentile per-packet one-way delay: 86.470 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 4.03 Mbit/s
95th percentile per-packet one-way delay: 87.024 ms
Loss rate: 1.07%
-- Flow 3:
Average throughput: 4.06 Mbit/s
95th percentile per-packet one-way delay: 86.174 ms
Loss rate: 1.84%
```

Run 7: Report of Sprout — Data Link

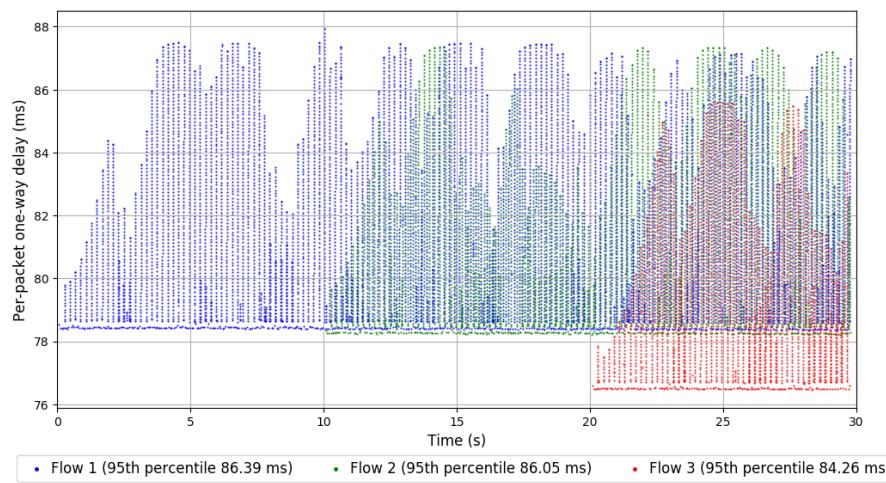
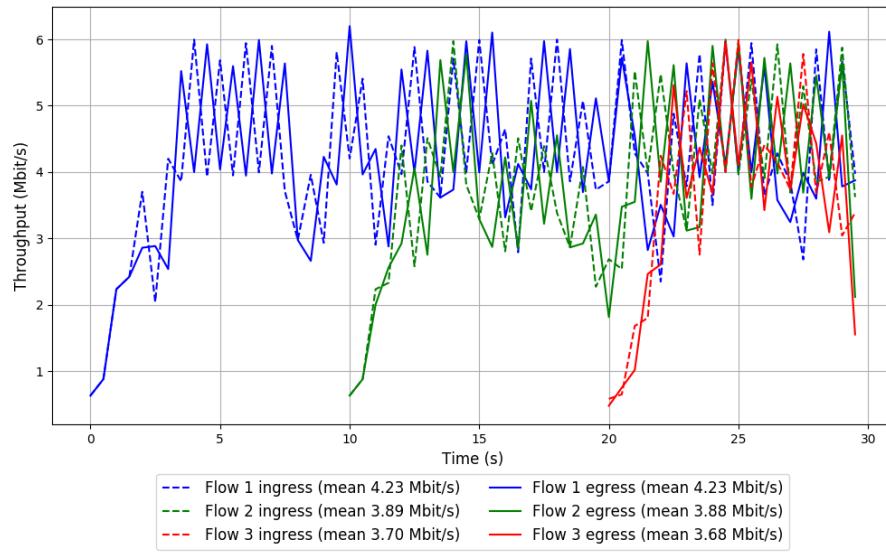


Run 8: Statistics of Sprout

```
Start at: 2018-04-17 15:51:01
End at: 2018-04-17 15:51:31
Local clock offset: -6.395 ms
Remote clock offset: 11.014 ms

# Below is generated by plot.py at 2018-04-17 20:41:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.00 Mbit/s
95th percentile per-packet one-way delay: 86.147 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 4.23 Mbit/s
95th percentile per-packet one-way delay: 86.391 ms
Loss rate: 0.79%
-- Flow 2:
Average throughput: 3.88 Mbit/s
95th percentile per-packet one-way delay: 86.054 ms
Loss rate: 1.13%
-- Flow 3:
Average throughput: 3.68 Mbit/s
95th percentile per-packet one-way delay: 84.261 ms
Loss rate: 2.52%
```

Run 8: Report of Sprout — Data Link

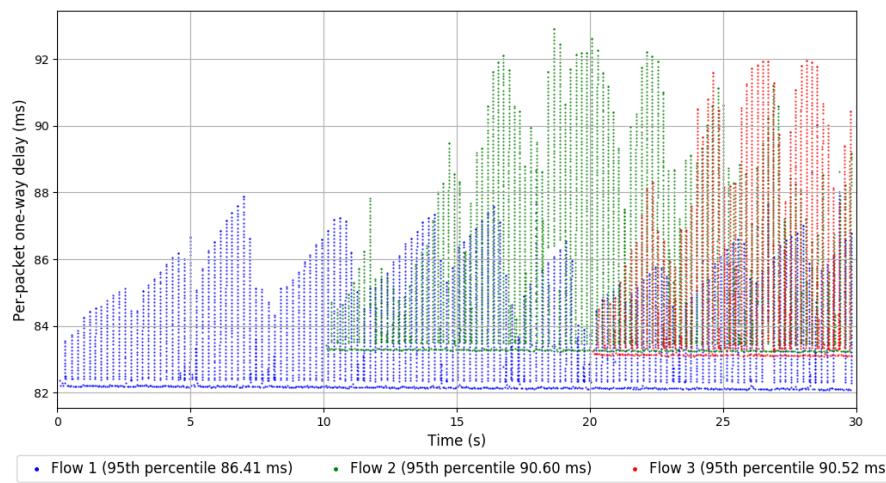
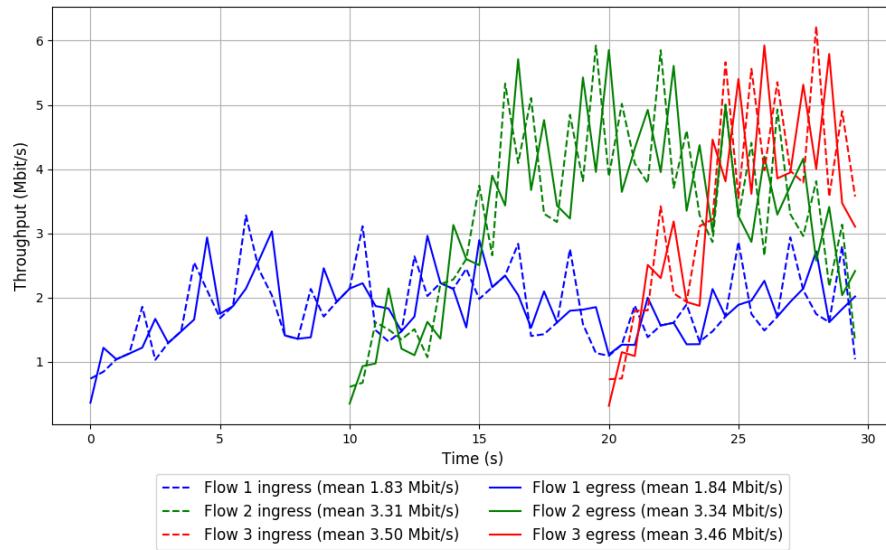


Run 9: Statistics of Sprout

```
Start at: 2018-04-17 16:13:28
End at: 2018-04-17 16:13:58
Local clock offset: -6.27 ms
Remote clock offset: 4.561 ms

# Below is generated by plot.py at 2018-04-17 20:41:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.18 Mbit/s
95th percentile per-packet one-way delay: 90.028 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 1.84 Mbit/s
95th percentile per-packet one-way delay: 86.412 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.34 Mbit/s
95th percentile per-packet one-way delay: 90.601 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.46 Mbit/s
95th percentile per-packet one-way delay: 90.523 ms
Loss rate: 2.76%
```

Run 9: Report of Sprout — Data Link

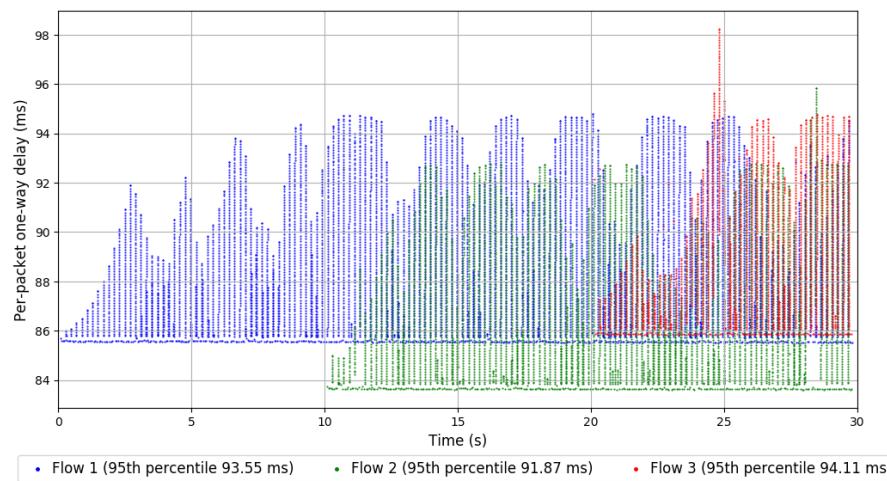
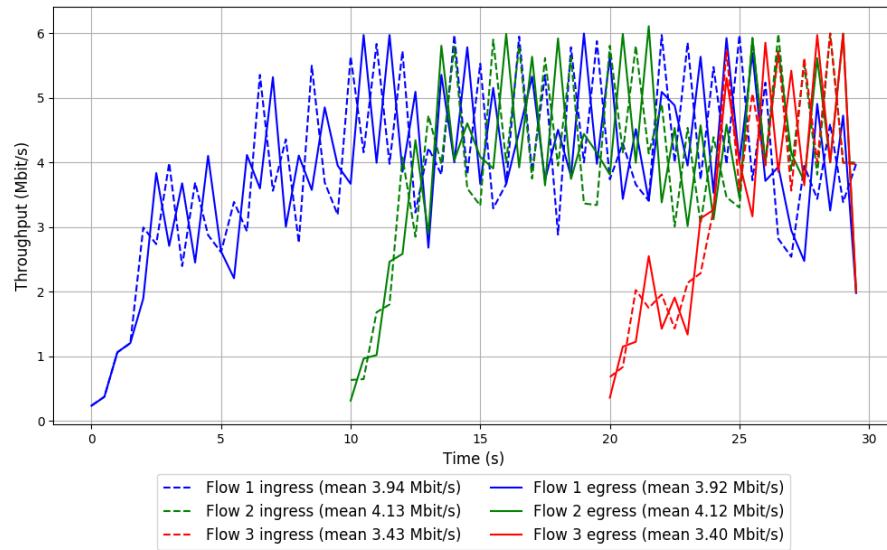


Run 10: Statistics of Sprout

```
Start at: 2018-04-17 16:35:48
End at: 2018-04-17 16:36:18
Local clock offset: -3.033 ms
Remote clock offset: 3.848 ms

# Below is generated by plot.py at 2018-04-17 20:41:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.76 Mbit/s
95th percentile per-packet one-way delay: 93.245 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 3.92 Mbit/s
95th percentile per-packet one-way delay: 93.545 ms
Loss rate: 0.85%
-- Flow 2:
Average throughput: 4.12 Mbit/s
95th percentile per-packet one-way delay: 91.866 ms
Loss rate: 1.22%
-- Flow 3:
Average throughput: 3.40 Mbit/s
95th percentile per-packet one-way delay: 94.110 ms
Loss rate: 2.92%
```

Run 10: Report of Sprout — Data Link

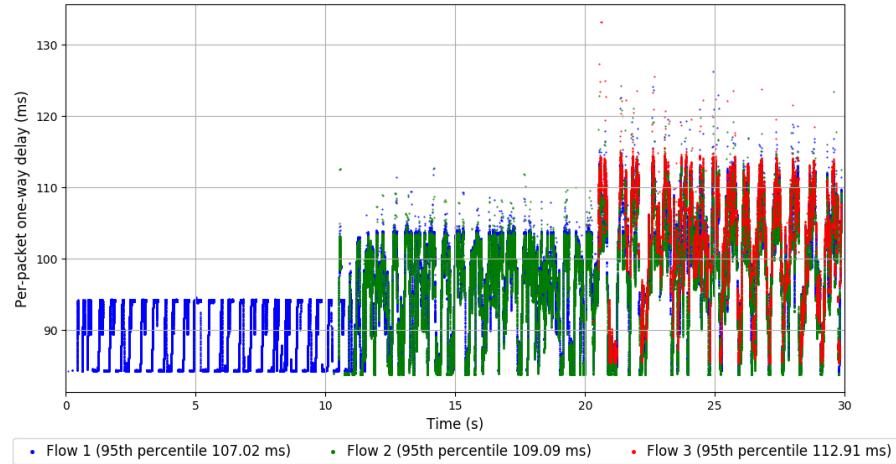
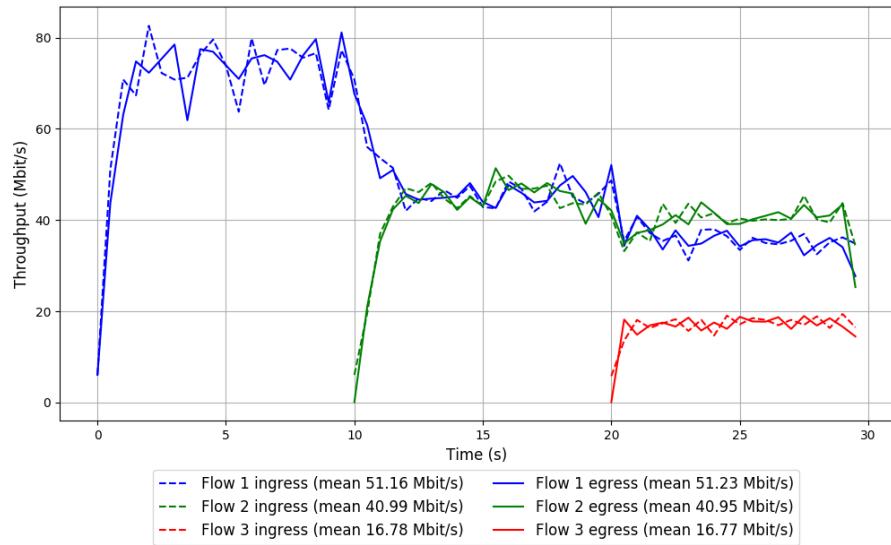


Run 1: Statistics of TaoVA-100x

```
Start at: 2018-04-17 13:13:19
End at: 2018-04-17 13:13:50
Local clock offset: -5.716 ms
Remote clock offset: 5.152 ms

# Below is generated by plot.py at 2018-04-17 20:43:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.91 Mbit/s
95th percentile per-packet one-way delay: 109.095 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 51.23 Mbit/s
95th percentile per-packet one-way delay: 107.022 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 40.95 Mbit/s
95th percentile per-packet one-way delay: 109.088 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 16.77 Mbit/s
95th percentile per-packet one-way delay: 112.911 ms
Loss rate: 2.14%
```

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

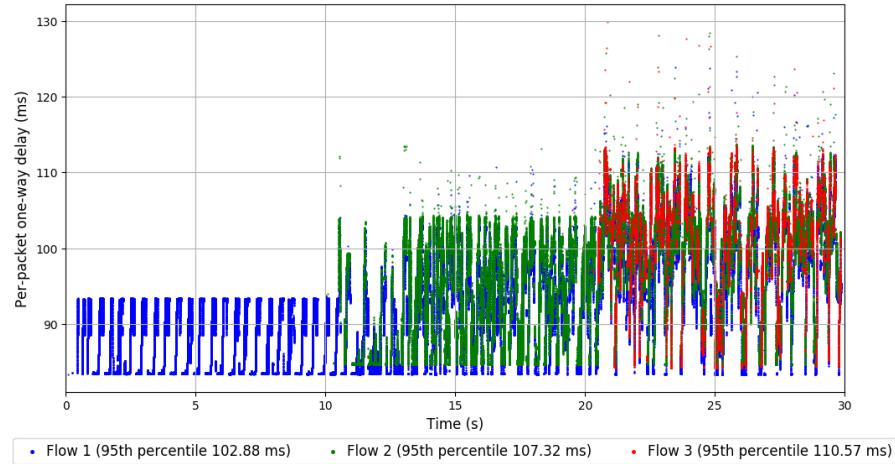
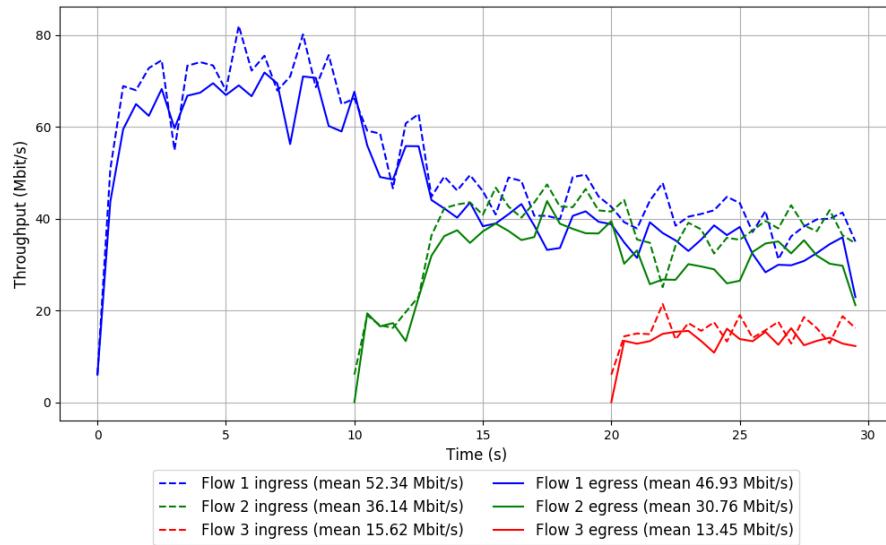


Run 2: Statistics of TaoVA-100x

```
Start at: 2018-04-17 13:35:51
End at: 2018-04-17 13:36:21
Local clock offset: -2.786 ms
Remote clock offset: 6.769 ms

# Below is generated by plot.py at 2018-04-17 20:43:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 71.72 Mbit/s
95th percentile per-packet one-way delay: 106.102 ms
Loss rate: 12.63%
-- Flow 1:
Average throughput: 46.93 Mbit/s
95th percentile per-packet one-way delay: 102.875 ms
Loss rate: 10.88%
-- Flow 2:
Average throughput: 30.76 Mbit/s
95th percentile per-packet one-way delay: 107.323 ms
Loss rate: 15.79%
-- Flow 3:
Average throughput: 13.45 Mbit/s
95th percentile per-packet one-way delay: 110.572 ms
Loss rate: 15.72%
```

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

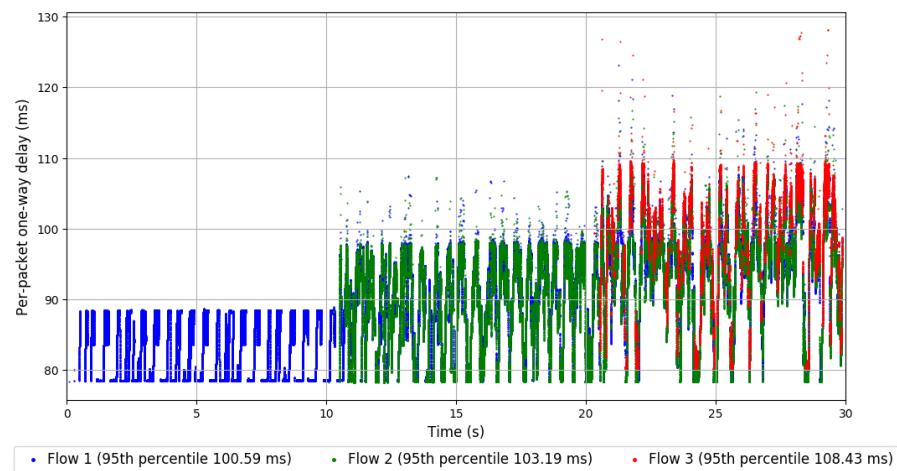
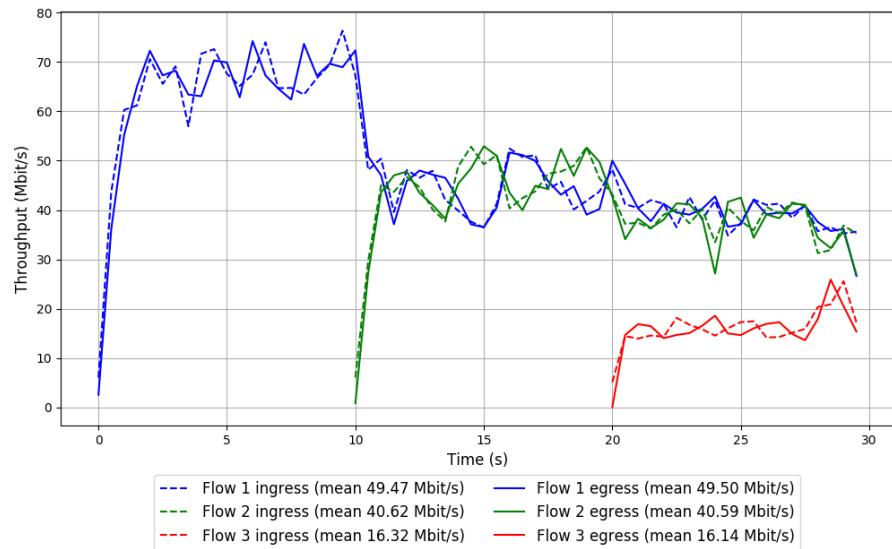


Run 3: Statistics of TaoVA-100x

```
Start at: 2018-04-17 13:58:10
End at: 2018-04-17 13:58:40
Local clock offset: -2.13 ms
Remote clock offset: 11.679 ms

# Below is generated by plot.py at 2018-04-17 20:43:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.74 Mbit/s
95th percentile per-packet one-way delay: 103.458 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 49.50 Mbit/s
95th percentile per-packet one-way delay: 100.592 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 40.59 Mbit/s
95th percentile per-packet one-way delay: 103.191 ms
Loss rate: 0.93%
-- Flow 3:
Average throughput: 16.14 Mbit/s
95th percentile per-packet one-way delay: 108.428 ms
Loss rate: 2.16%
```

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

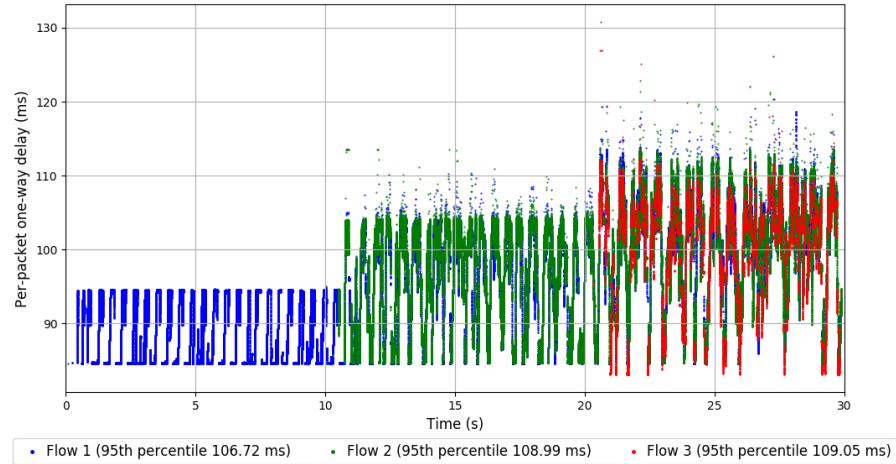
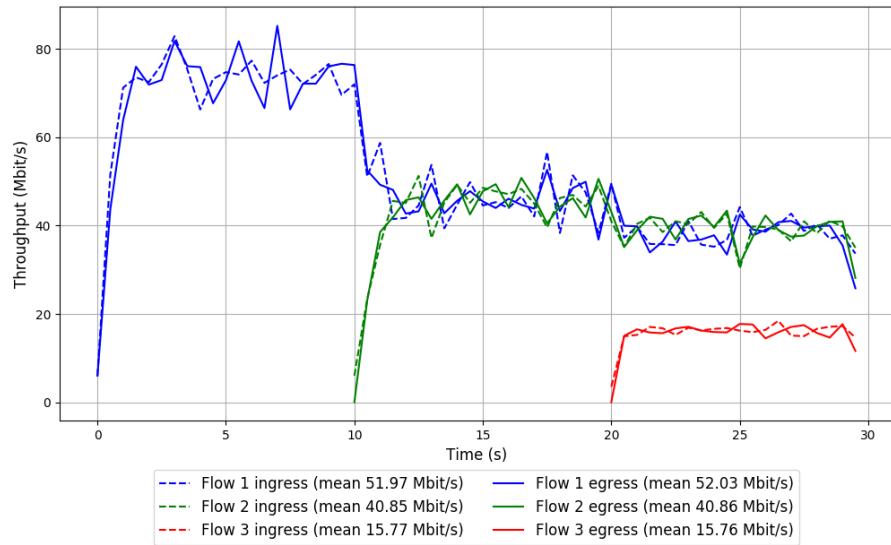


Run 4: Statistics of TaoVA-100x

```
Start at: 2018-04-17 14:20:20
End at: 2018-04-17 14:20:50
Local clock offset: -5.73 ms
Remote clock offset: 6.195 ms

# Below is generated by plot.py at 2018-04-17 20:43:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.29 Mbit/s
95th percentile per-packet one-way delay: 107.929 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 52.03 Mbit/s
95th percentile per-packet one-way delay: 106.723 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 40.86 Mbit/s
95th percentile per-packet one-way delay: 108.988 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 15.76 Mbit/s
95th percentile per-packet one-way delay: 109.049 ms
Loss rate: 2.35%
```

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

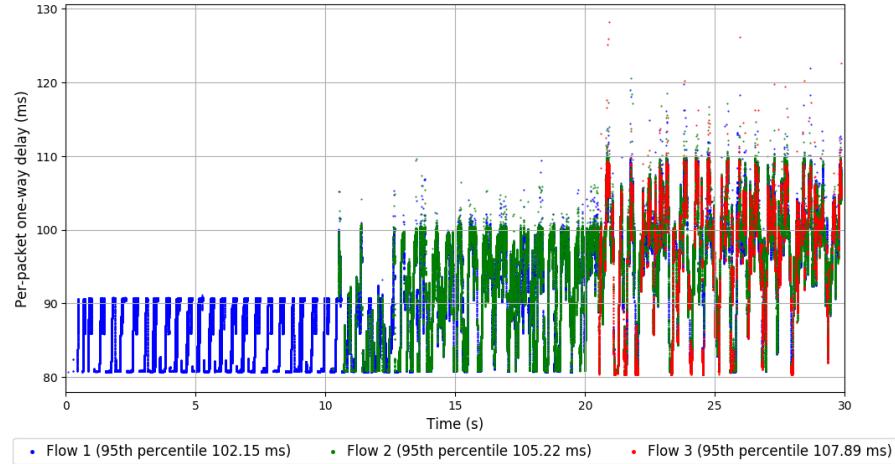
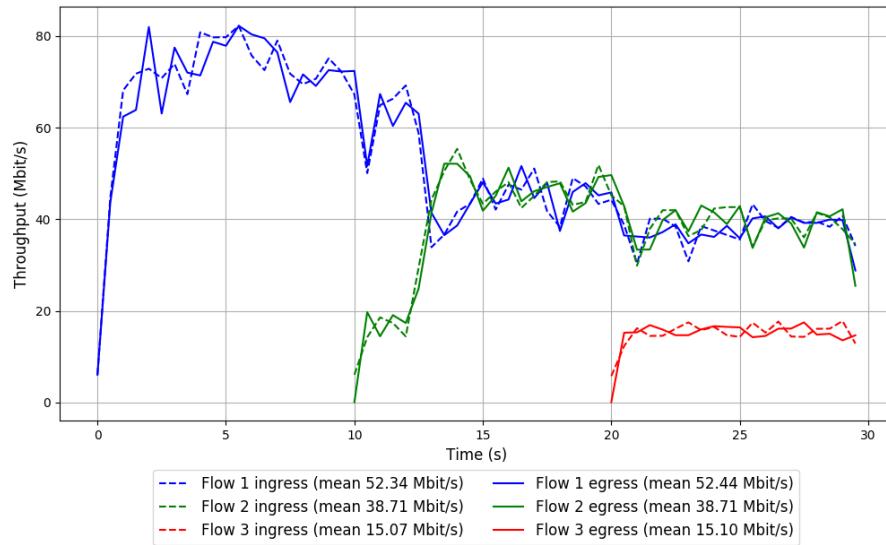


Run 5: Statistics of TaoVA-100x

```
Start at: 2018-04-17 14:42:38
End at: 2018-04-17 14:43:08
Local clock offset: -5.489 ms
Remote clock offset: 9.579 ms

# Below is generated by plot.py at 2018-04-17 20:43:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.08 Mbit/s
95th percentile per-packet one-way delay: 104.612 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 52.44 Mbit/s
95th percentile per-packet one-way delay: 102.153 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 38.71 Mbit/s
95th percentile per-packet one-way delay: 105.218 ms
Loss rate: 0.90%
-- Flow 3:
Average throughput: 15.10 Mbit/s
95th percentile per-packet one-way delay: 107.888 ms
Loss rate: 1.78%
```

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

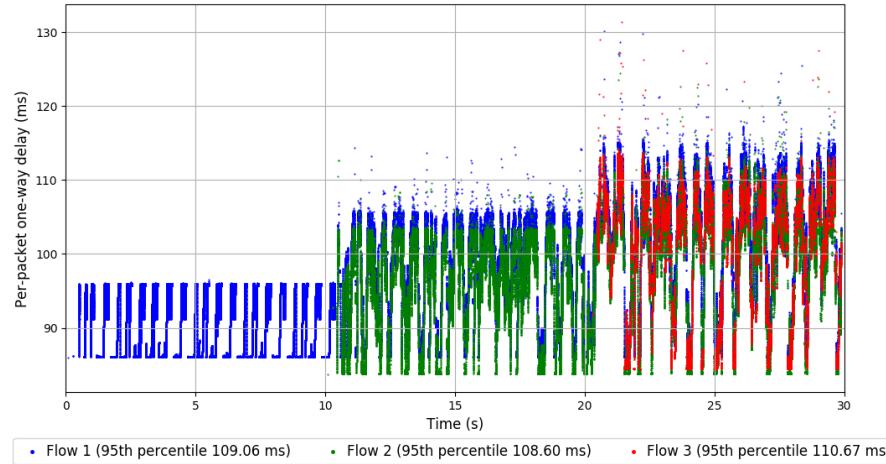
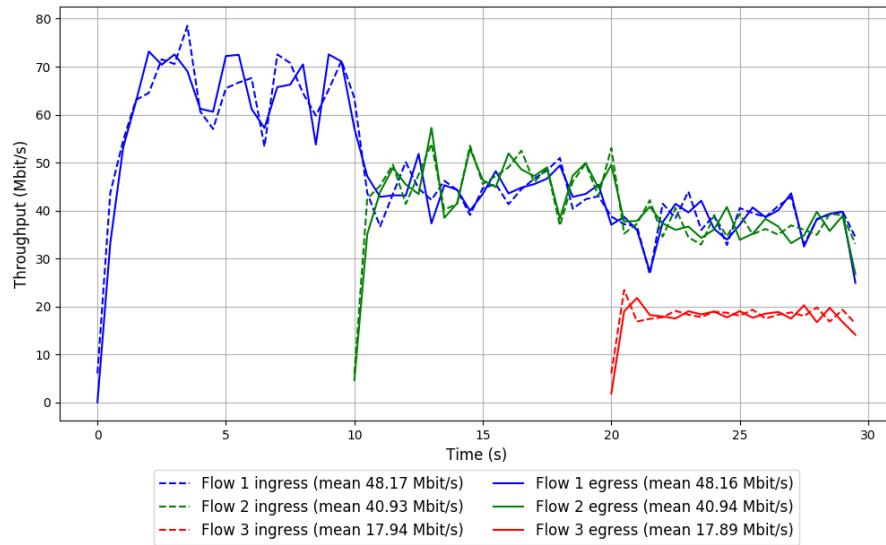


Run 6: Statistics of TaoVA-100x

```
Start at: 2018-04-17 15:05:05
End at: 2018-04-17 15:05:35
Local clock offset: -4.699 ms
Remote clock offset: 5.543 ms

# Below is generated by plot.py at 2018-04-17 20:43:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.22 Mbit/s
95th percentile per-packet one-way delay: 109.171 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 48.16 Mbit/s
95th percentile per-packet one-way delay: 109.059 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 40.94 Mbit/s
95th percentile per-packet one-way delay: 108.598 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 17.89 Mbit/s
95th percentile per-packet one-way delay: 110.666 ms
Loss rate: 2.05%
```

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

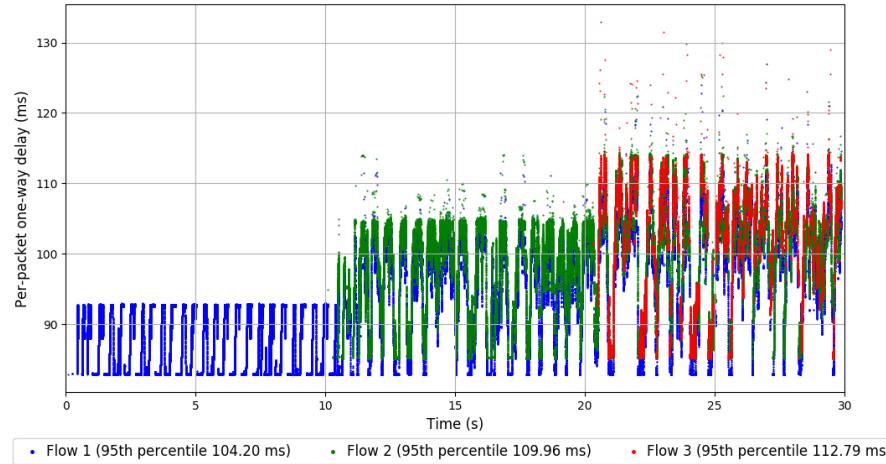
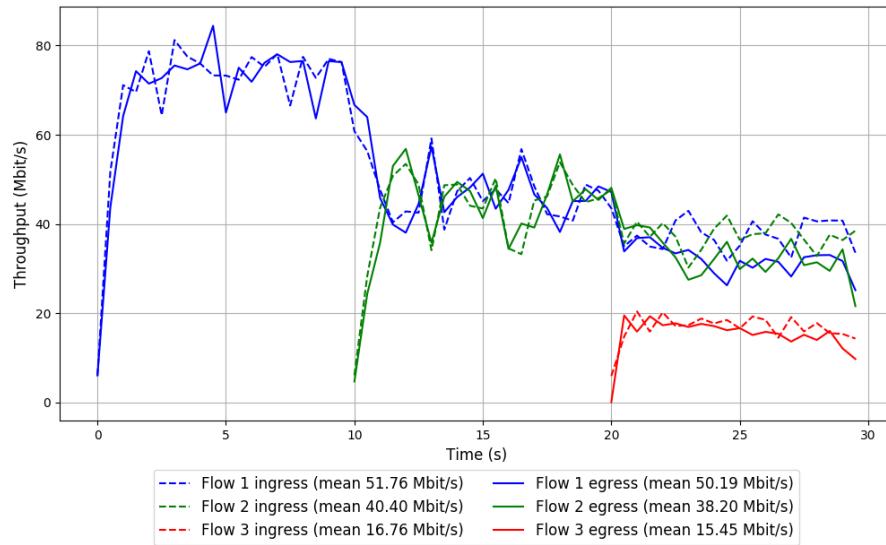


Run 7: Statistics of TaoVA-100x

```
Start at: 2018-04-17 15:27:20
End at: 2018-04-17 15:27:50
Local clock offset: -6.314 ms
Remote clock offset: 5.935 ms

# Below is generated by plot.py at 2018-04-17 20:43:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.60 Mbit/s
95th percentile per-packet one-way delay: 108.437 ms
Loss rate: 4.87%
-- Flow 1:
Average throughput: 50.19 Mbit/s
95th percentile per-packet one-way delay: 104.197 ms
Loss rate: 3.59%
-- Flow 2:
Average throughput: 38.20 Mbit/s
95th percentile per-packet one-way delay: 109.960 ms
Loss rate: 6.36%
-- Flow 3:
Average throughput: 15.45 Mbit/s
95th percentile per-packet one-way delay: 112.791 ms
Loss rate: 9.67%
```

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

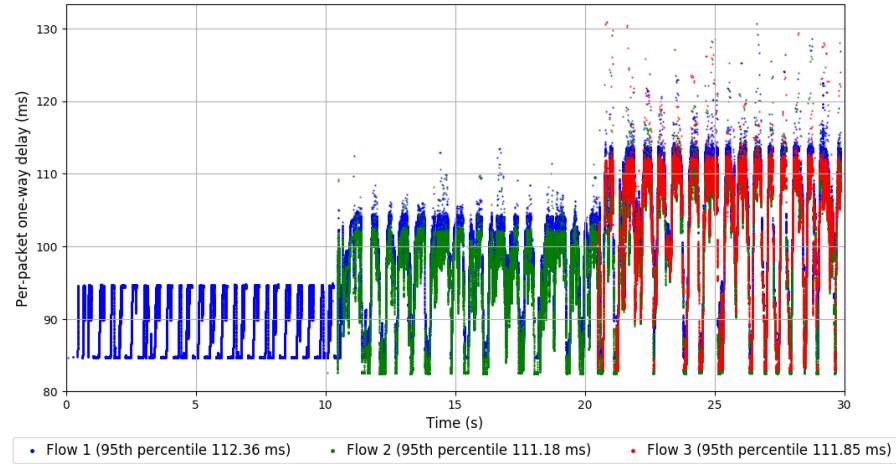
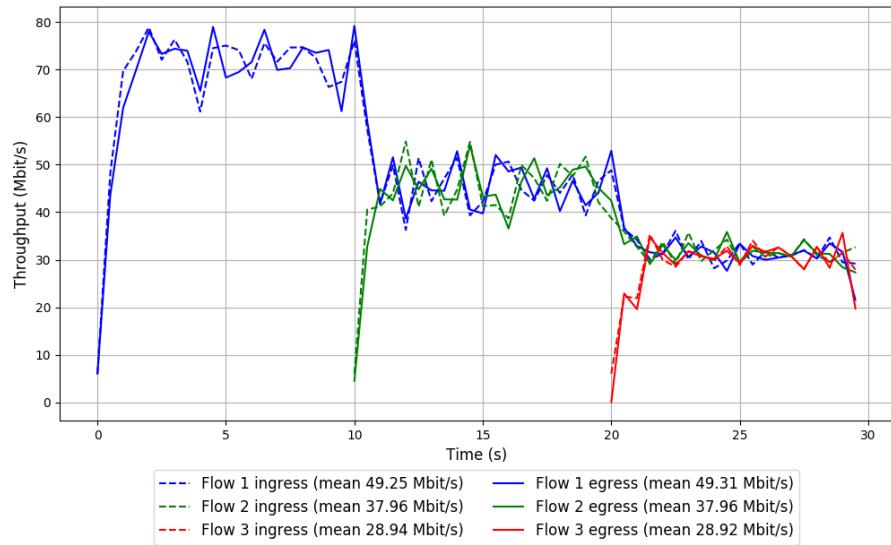


Run 8: Statistics of TaoVA-100x

```
Start at: 2018-04-17 15:49:37
End at: 2018-04-17 15:50:07
Local clock offset: -5.564 ms
Remote clock offset: 5.367 ms

# Below is generated by plot.py at 2018-04-17 20:43:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.99 Mbit/s
95th percentile per-packet one-way delay: 111.686 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 49.31 Mbit/s
95th percentile per-packet one-way delay: 112.361 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 37.96 Mbit/s
95th percentile per-packet one-way delay: 111.180 ms
Loss rate: 0.89%
-- Flow 3:
Average throughput: 28.92 Mbit/s
95th percentile per-packet one-way delay: 111.846 ms
Loss rate: 2.05%
```

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

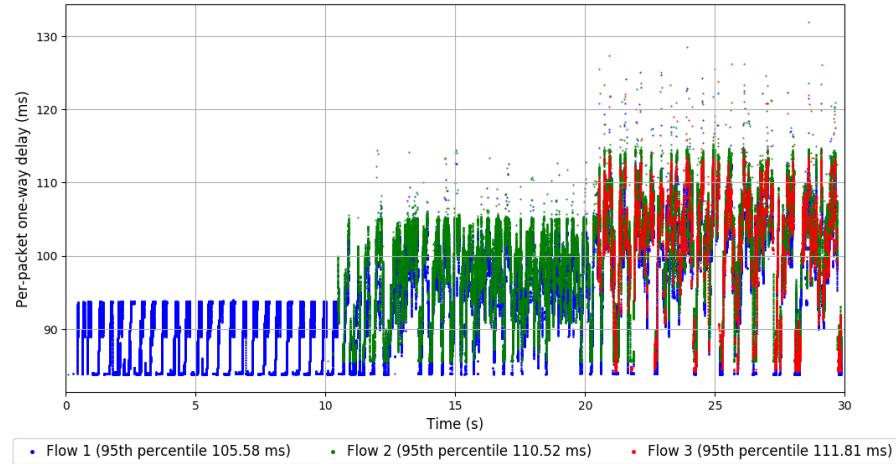
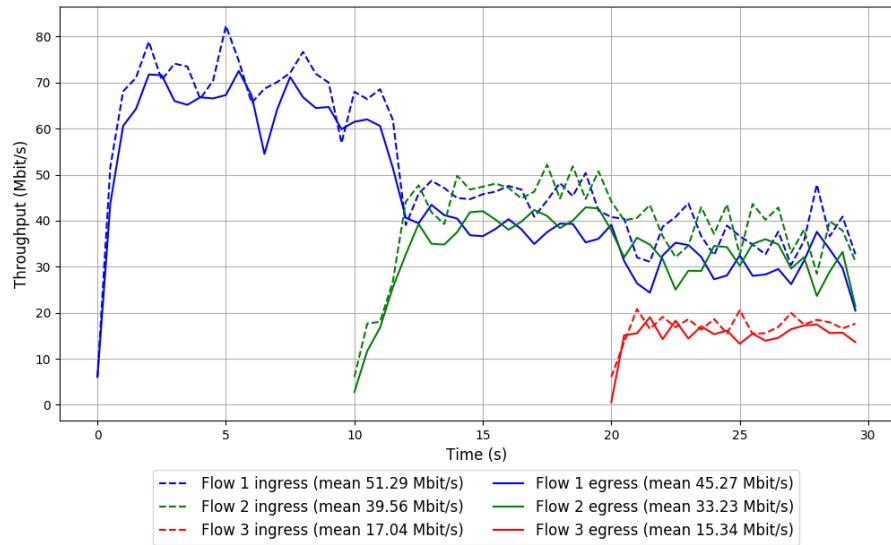


Run 9: Statistics of TaoVA-100x

```
Start at: 2018-04-17 16:12:05
End at: 2018-04-17 16:12:35
Local clock offset: -5.589 ms
Remote clock offset: 3.639 ms

# Below is generated by plot.py at 2018-04-17 20:45:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 72.35 Mbit/s
95th percentile per-packet one-way delay: 108.801 ms
Loss rate: 13.64%
-- Flow 1:
Average throughput: 45.27 Mbit/s
95th percentile per-packet one-way delay: 105.577 ms
Loss rate: 12.27%
-- Flow 2:
Average throughput: 33.23 Mbit/s
95th percentile per-packet one-way delay: 110.515 ms
Loss rate: 16.73%
-- Flow 3:
Average throughput: 15.34 Mbit/s
95th percentile per-packet one-way delay: 111.806 ms
Loss rate: 11.69%
```

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

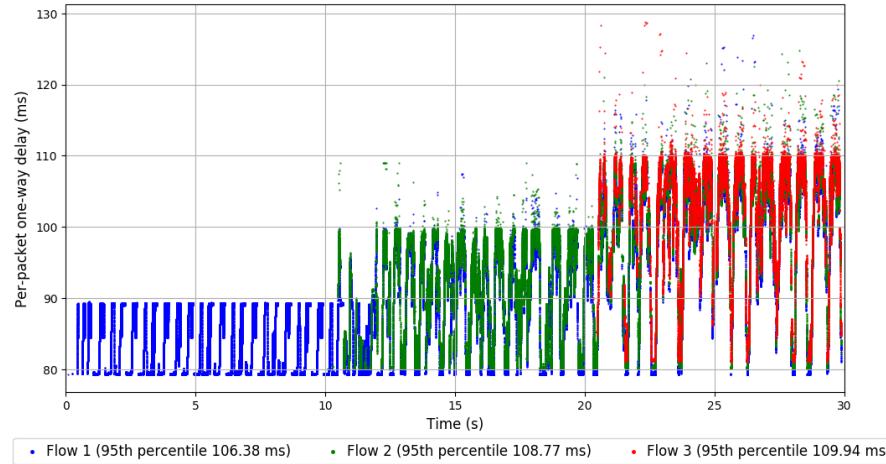
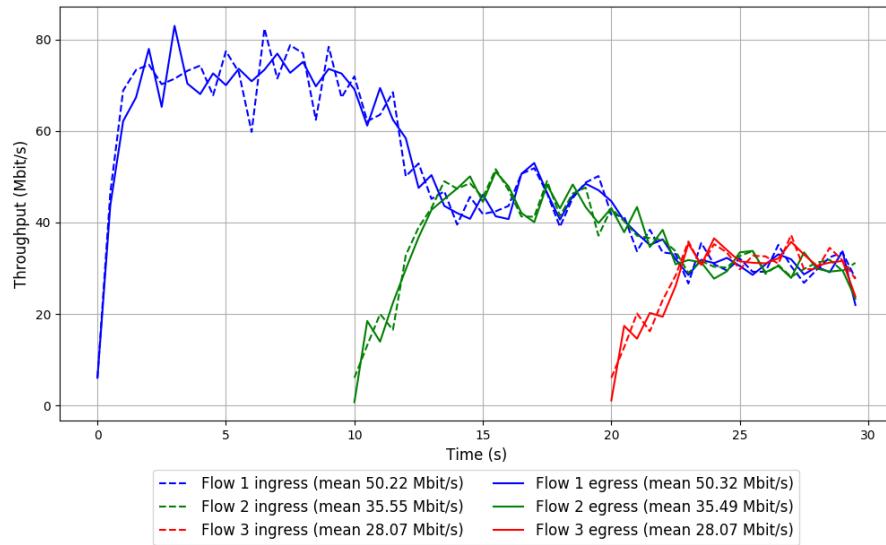


Run 10: Statistics of TaoVA-100x

```
Start at: 2018-04-17 16:34:25
End at: 2018-04-17 16:34:55
Local clock offset: -3.103 ms
Remote clock offset: 8.746 ms

# Below is generated by plot.py at 2018-04-17 20:45:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.07 Mbit/s
95th percentile per-packet one-way delay: 108.313 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 50.32 Mbit/s
95th percentile per-packet one-way delay: 106.378 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 35.49 Mbit/s
95th percentile per-packet one-way delay: 108.768 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 28.07 Mbit/s
95th percentile per-packet one-way delay: 109.942 ms
Loss rate: 1.99%
```

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

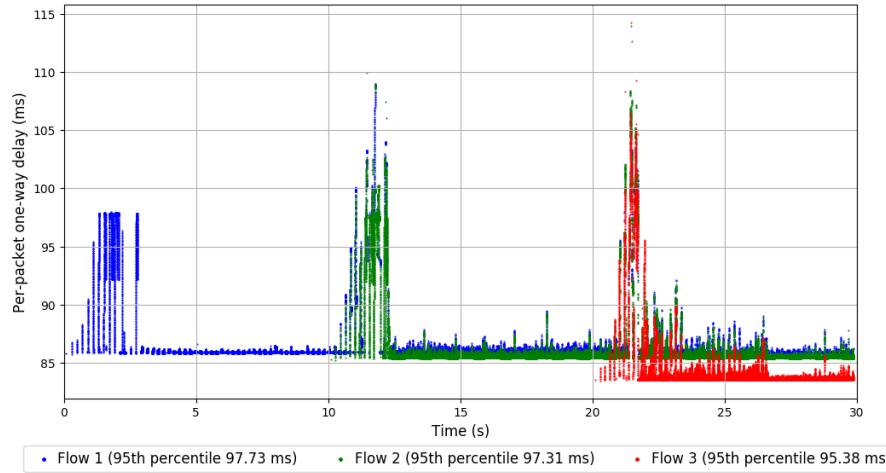
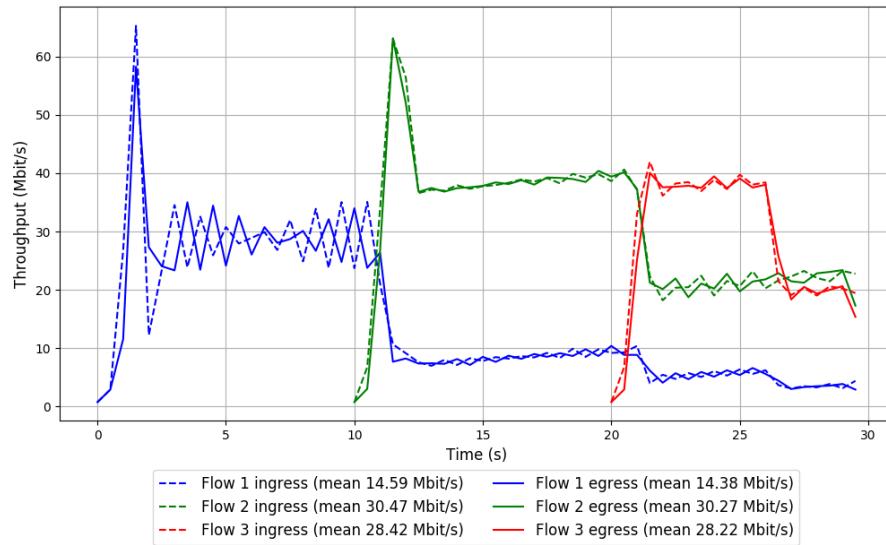


Run 1: Statistics of TCP Vegas

```
Start at: 2018-04-17 13:06:38
End at: 2018-04-17 13:07:08
Local clock offset: -4.917 ms
Remote clock offset: 5.939 ms

# Below is generated by plot.py at 2018-04-17 20:45:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 43.73 Mbit/s
95th percentile per-packet one-way delay: 97.340 ms
Loss rate: 1.89%
-- Flow 1:
Average throughput: 14.38 Mbit/s
95th percentile per-packet one-way delay: 97.735 ms
Loss rate: 2.01%
-- Flow 2:
Average throughput: 30.27 Mbit/s
95th percentile per-packet one-way delay: 97.307 ms
Loss rate: 1.55%
-- Flow 3:
Average throughput: 28.22 Mbit/s
95th percentile per-packet one-way delay: 95.380 ms
Loss rate: 2.43%
```

Run 1: Report of TCP Vegas — Data Link

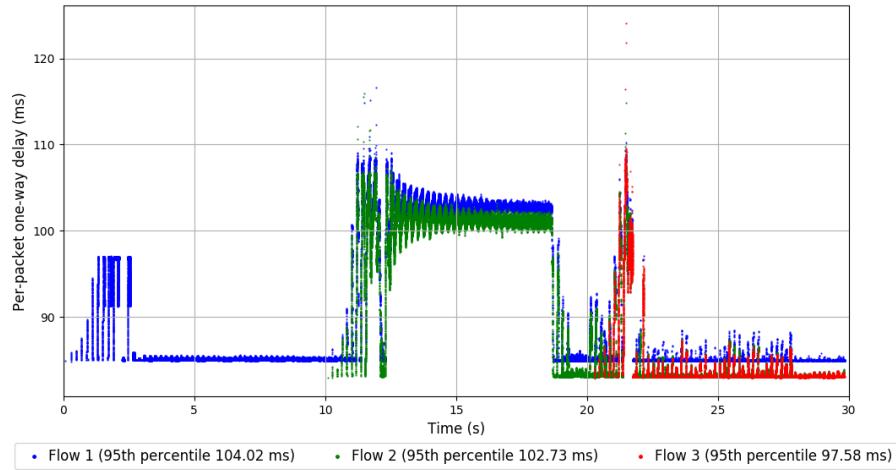
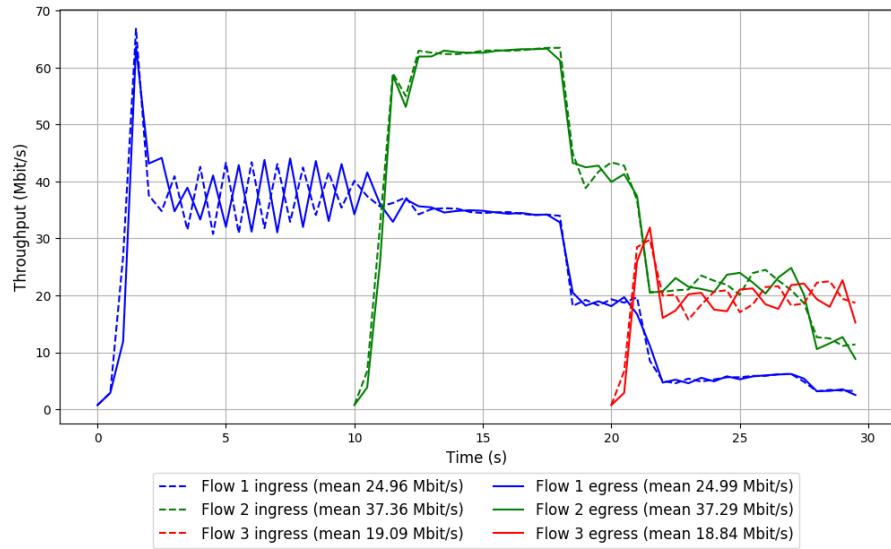


Run 2: Statistics of TCP Vegas

```
Start at: 2018-04-17 13:29:19
End at: 2018-04-17 13:29:49
Local clock offset: -3.784 ms
Remote clock offset: 6.545 ms

# Below is generated by plot.py at 2018-04-17 20:45:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 55.85 Mbit/s
95th percentile per-packet one-way delay: 103.507 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 24.99 Mbit/s
95th percentile per-packet one-way delay: 104.018 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 37.29 Mbit/s
95th percentile per-packet one-way delay: 102.729 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 18.84 Mbit/s
95th percentile per-packet one-way delay: 97.581 ms
Loss rate: 3.12%
```

Run 2: Report of TCP Vegas — Data Link

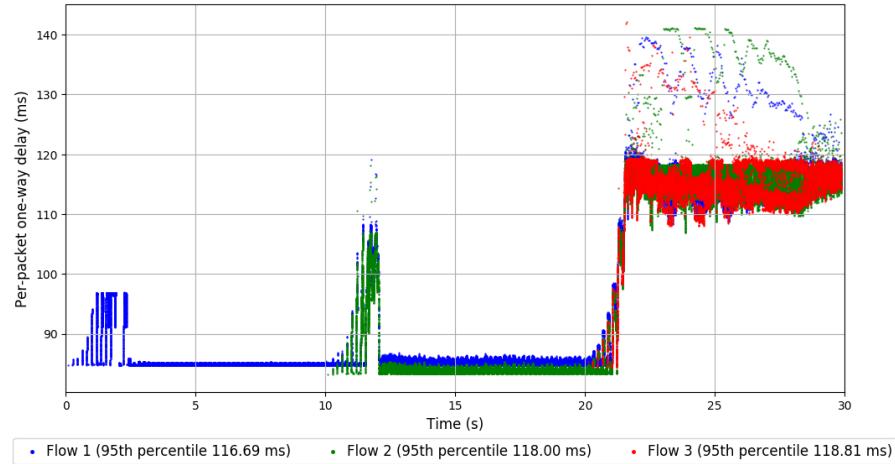
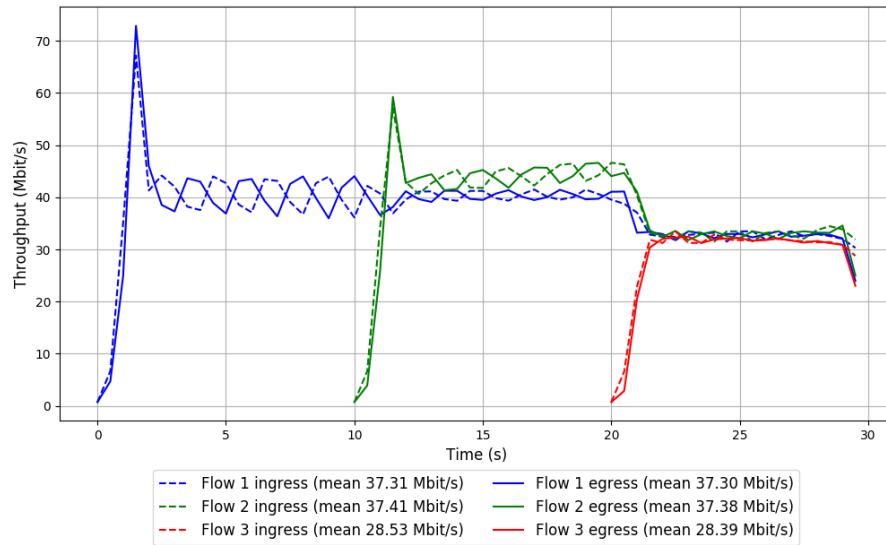


Run 3: Statistics of TCP Vegas

```
Start at: 2018-04-17 13:51:38
End at: 2018-04-17 13:52:08
Local clock offset: -1.609 ms
Remote clock offset: 7.107 ms

# Below is generated by plot.py at 2018-04-17 20:45:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 71.42 Mbit/s
95th percentile per-packet one-way delay: 118.018 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 37.30 Mbit/s
95th percentile per-packet one-way delay: 116.686 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 37.38 Mbit/s
95th percentile per-packet one-way delay: 118.004 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 28.39 Mbit/s
95th percentile per-packet one-way delay: 118.813 ms
Loss rate: 2.31%
```

Run 3: Report of TCP Vegas — Data Link

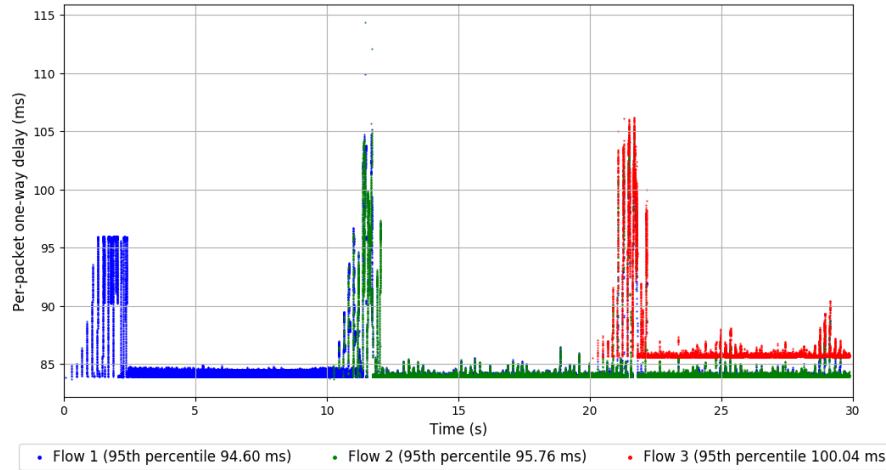
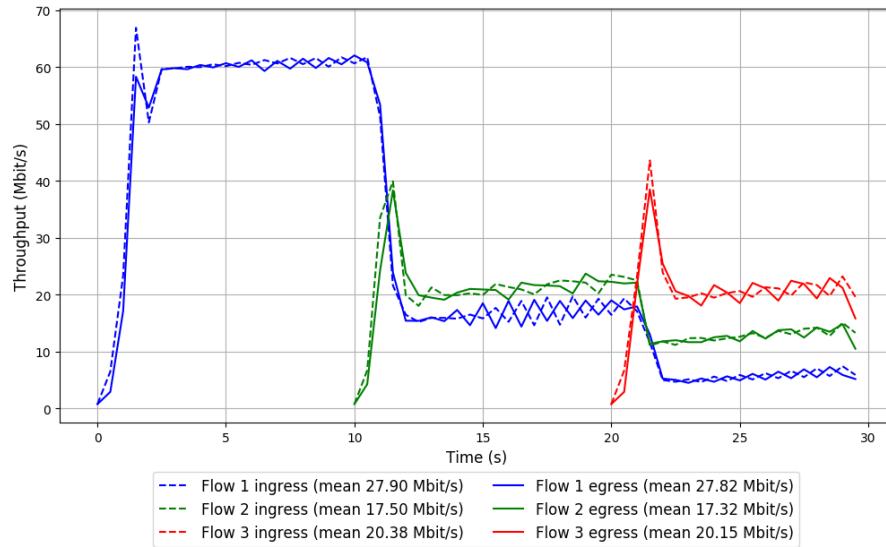


Run 4: Statistics of TCP Vegas

```
Start at: 2018-04-17 14:13:53
End at: 2018-04-17 14:14:23
Local clock offset: -4.495 ms
Remote clock offset: 6.246 ms

# Below is generated by plot.py at 2018-04-17 20:45:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 45.90 Mbit/s
95th percentile per-packet one-way delay: 95.760 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 27.82 Mbit/s
95th percentile per-packet one-way delay: 94.603 ms
Loss rate: 0.96%
-- Flow 2:
Average throughput: 17.32 Mbit/s
95th percentile per-packet one-way delay: 95.756 ms
Loss rate: 1.92%
-- Flow 3:
Average throughput: 20.15 Mbit/s
95th percentile per-packet one-way delay: 100.044 ms
Loss rate: 2.88%
```

Run 4: Report of TCP Vegas — Data Link

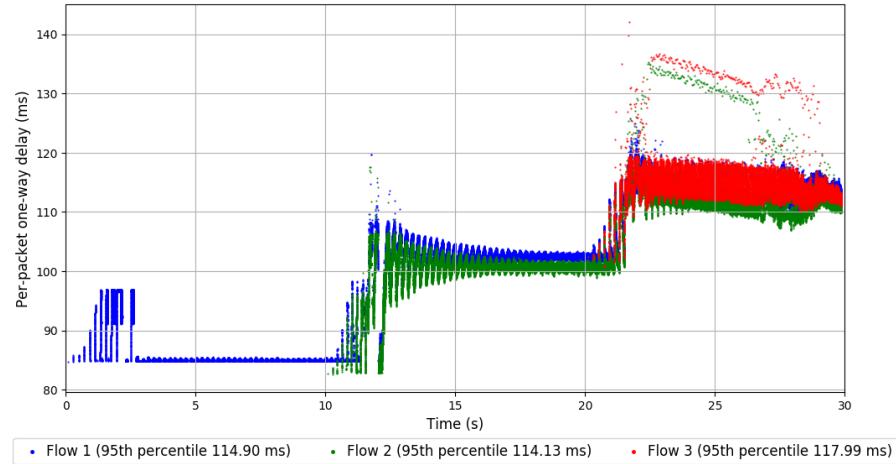
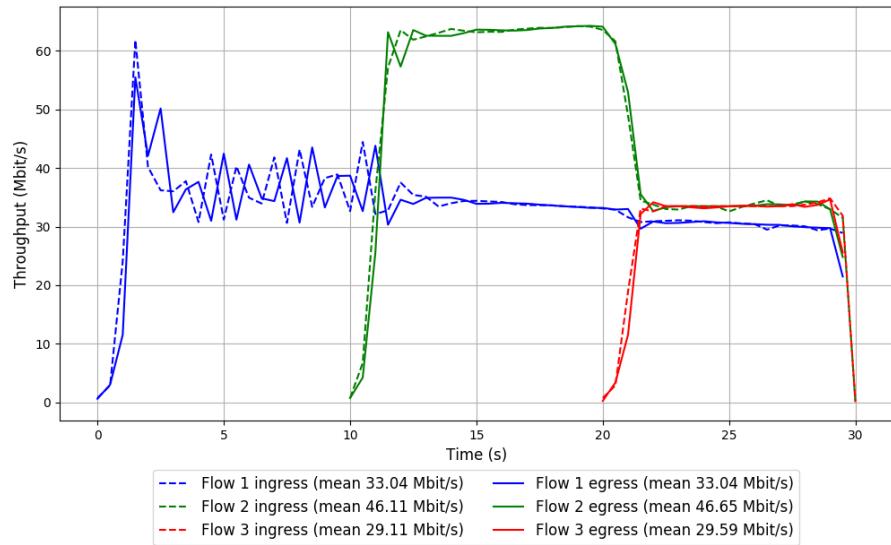


Run 5: Statistics of TCP Vegas

```
Start at: 2018-04-17 14:36:05
End at: 2018-04-17 14:36:35
Local clock offset: -6.487 ms
Remote clock offset: 4.983 ms

# Below is generated by plot.py at 2018-04-17 20:45:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 73.69 Mbit/s
95th percentile per-packet one-way delay: 115.776 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 33.04 Mbit/s
95th percentile per-packet one-way delay: 114.900 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 46.65 Mbit/s
95th percentile per-packet one-way delay: 114.132 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 29.59 Mbit/s
95th percentile per-packet one-way delay: 117.988 ms
Loss rate: 2.44%
```

Run 5: Report of TCP Vegas — Data Link

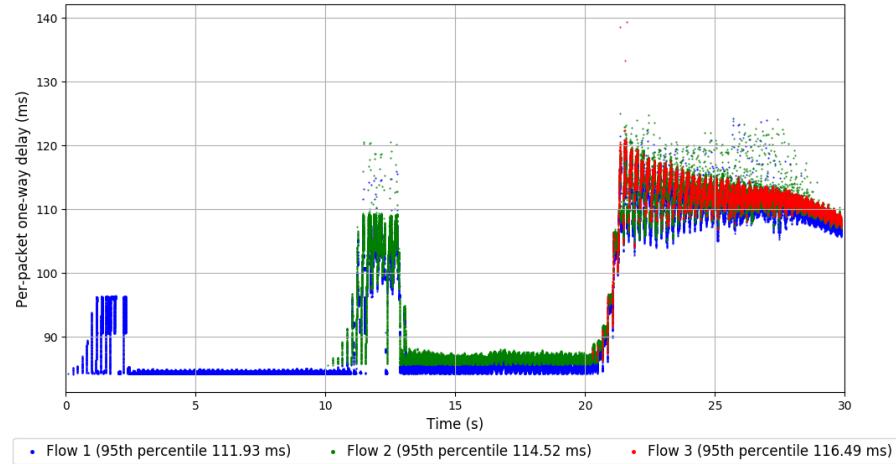
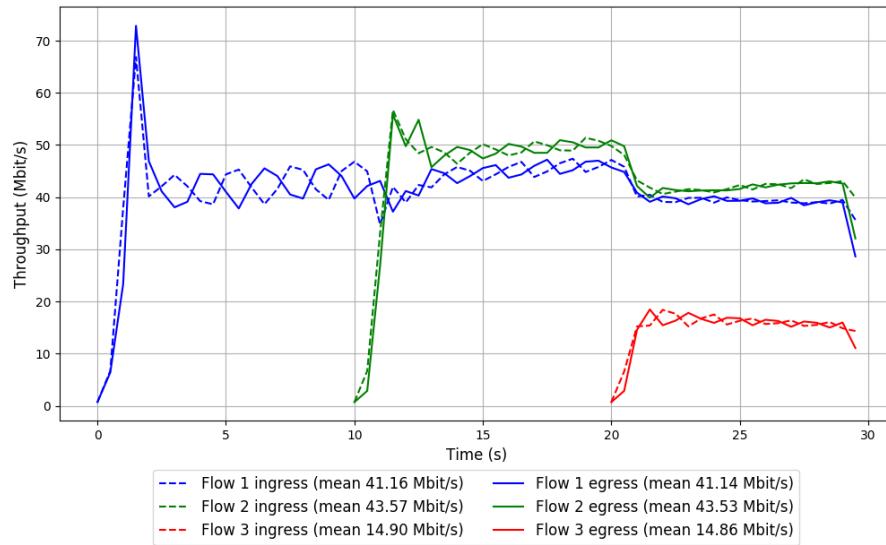


Run 6: Statistics of TCP Vegas

```
Start at: 2018-04-17 14:58:31
End at: 2018-04-17 14:59:01
Local clock offset: -5.426 ms
Remote clock offset: 4.571 ms

# Below is generated by plot.py at 2018-04-17 20:45:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 74.91 Mbit/s
95th percentile per-packet one-way delay: 113.893 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 41.14 Mbit/s
95th percentile per-packet one-way delay: 111.927 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 43.53 Mbit/s
95th percentile per-packet one-way delay: 114.517 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 14.86 Mbit/s
95th percentile per-packet one-way delay: 116.491 ms
Loss rate: 2.09%
```

Run 6: Report of TCP Vegas — Data Link

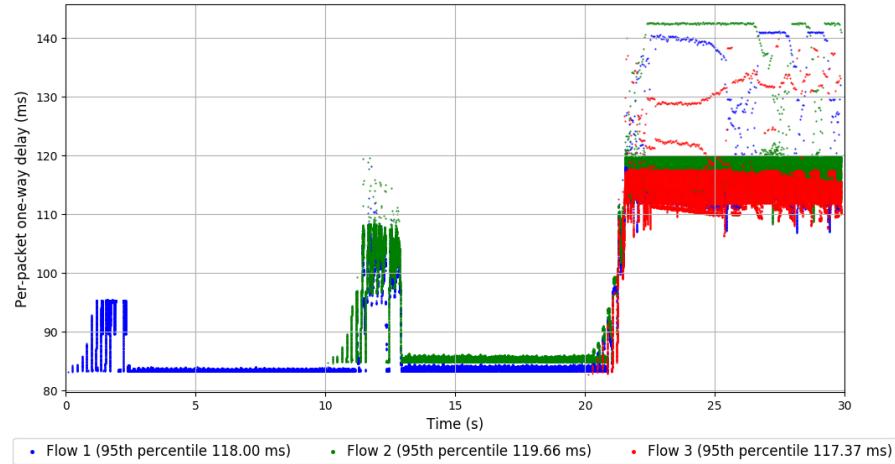
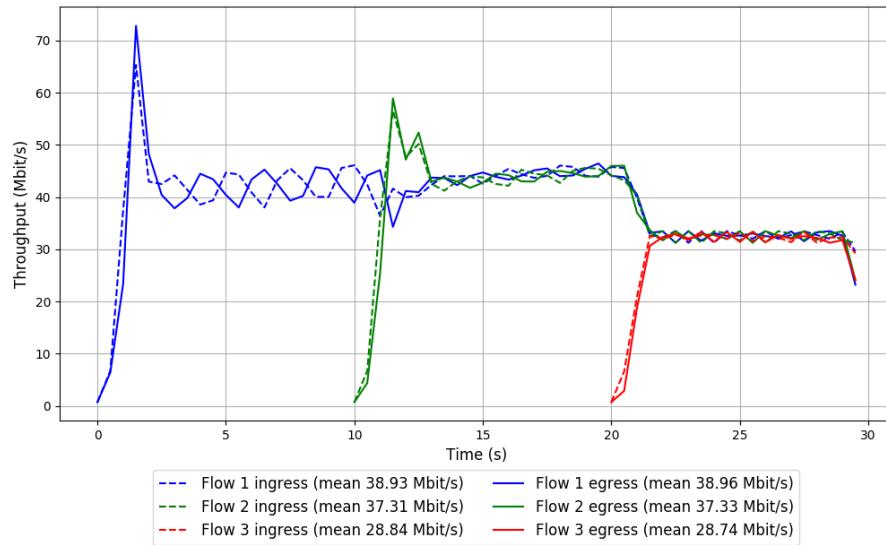


Run 7: Statistics of TCP Vegas

```
Start at: 2018-04-17 15:20:48
End at: 2018-04-17 15:21:18
Local clock offset: -6.243 ms
Remote clock offset: 5.883 ms

# Below is generated by plot.py at 2018-04-17 20:45:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 73.13 Mbit/s
95th percentile per-packet one-way delay: 119.061 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 38.96 Mbit/s
95th percentile per-packet one-way delay: 118.001 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 37.33 Mbit/s
95th percentile per-packet one-way delay: 119.658 ms
Loss rate: 0.93%
-- Flow 3:
Average throughput: 28.74 Mbit/s
95th percentile per-packet one-way delay: 117.367 ms
Loss rate: 2.34%
```

Run 7: Report of TCP Vegas — Data Link

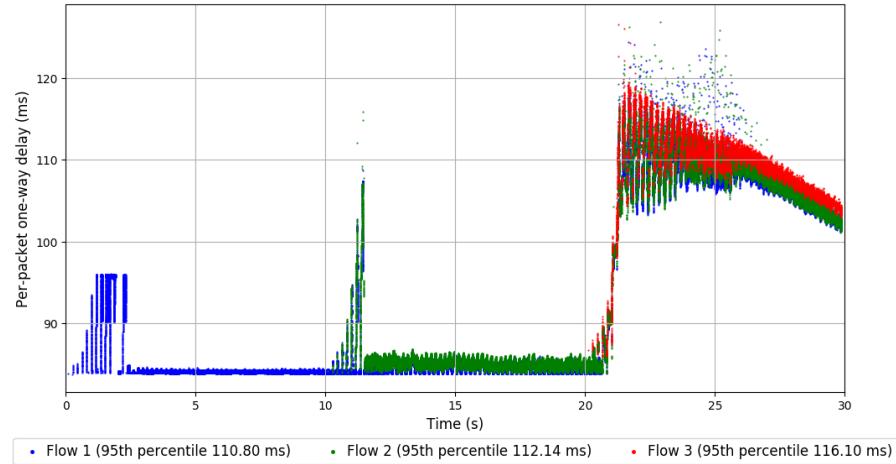
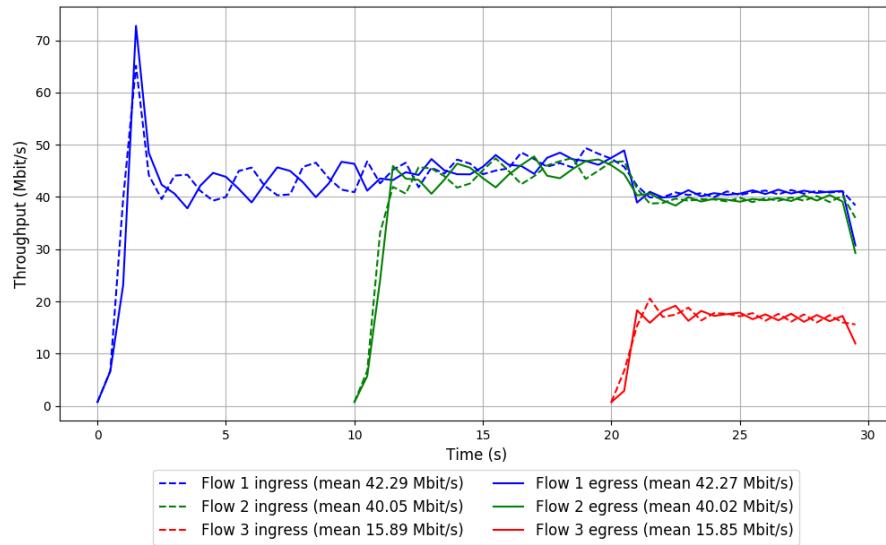


Run 8: Statistics of TCP Vegas

```
Start at: 2018-04-17 15:43:07
End at: 2018-04-17 15:43:37
Local clock offset: -5.577 ms
Remote clock offset: 5.153 ms

# Below is generated by plot.py at 2018-04-17 20:45:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 74.02 Mbit/s
95th percentile per-packet one-way delay: 112.326 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 42.27 Mbit/s
95th percentile per-packet one-way delay: 110.797 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 40.02 Mbit/s
95th percentile per-packet one-way delay: 112.140 ms
Loss rate: 0.97%
-- Flow 3:
Average throughput: 15.85 Mbit/s
95th percentile per-packet one-way delay: 116.098 ms
Loss rate: 2.05%
```

Run 8: Report of TCP Vegas — Data Link

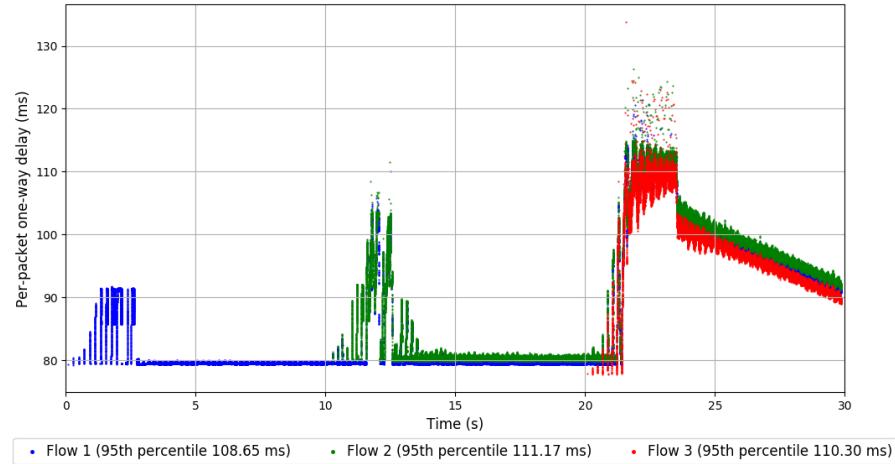
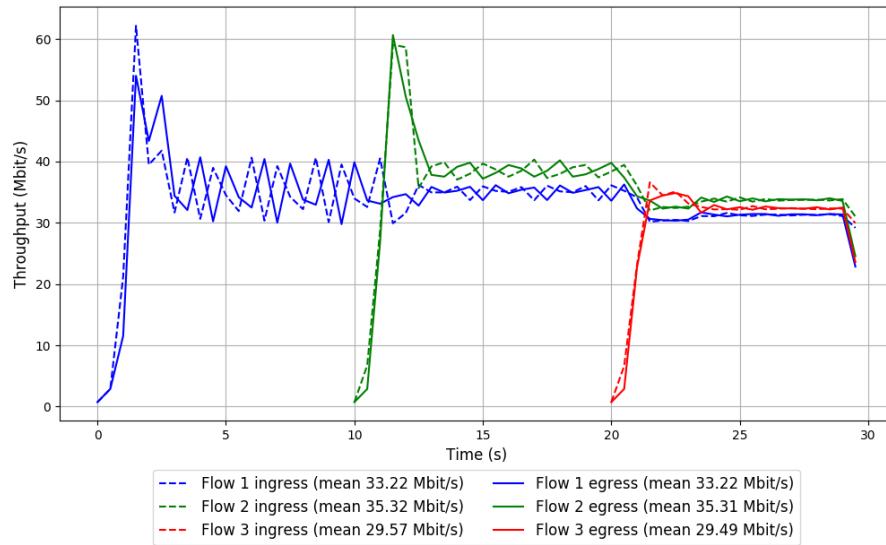


Run 9: Statistics of TCP Vegas

```
Start at: 2018-04-17 16:05:26
End at: 2018-04-17 16:05:56
Local clock offset: -4.826 ms
Remote clock offset: 10.307 ms

# Below is generated by plot.py at 2018-04-17 20:45:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.32 Mbit/s
95th percentile per-packet one-way delay: 110.247 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 33.22 Mbit/s
95th percentile per-packet one-way delay: 108.649 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 35.31 Mbit/s
95th percentile per-packet one-way delay: 111.174 ms
Loss rate: 0.92%
-- Flow 3:
Average throughput: 29.49 Mbit/s
95th percentile per-packet one-way delay: 110.302 ms
Loss rate: 2.07%
```

Run 9: Report of TCP Vegas — Data Link

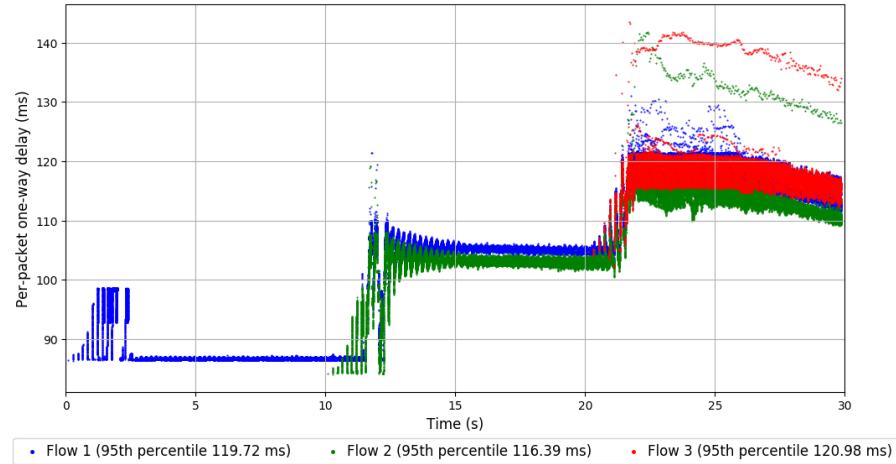
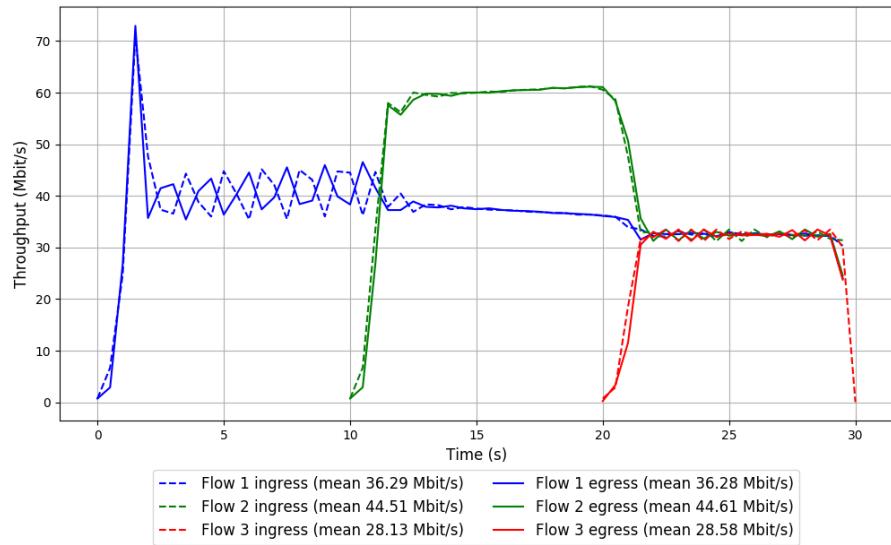


Run 10: Statistics of TCP Vegas

```
Start at: 2018-04-17 16:27:51
End at: 2018-04-17 16:28:21
Local clock offset: -2.743 ms
Remote clock offset: 4.016 ms

# Below is generated by plot.py at 2018-04-17 20:45:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.25 Mbit/s
95th percentile per-packet one-way delay: 119.806 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 36.28 Mbit/s
95th percentile per-packet one-way delay: 119.720 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 44.61 Mbit/s
95th percentile per-packet one-way delay: 116.390 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 28.58 Mbit/s
95th percentile per-packet one-way delay: 120.984 ms
Loss rate: 2.49%
```

Run 10: Report of TCP Vegas — Data Link

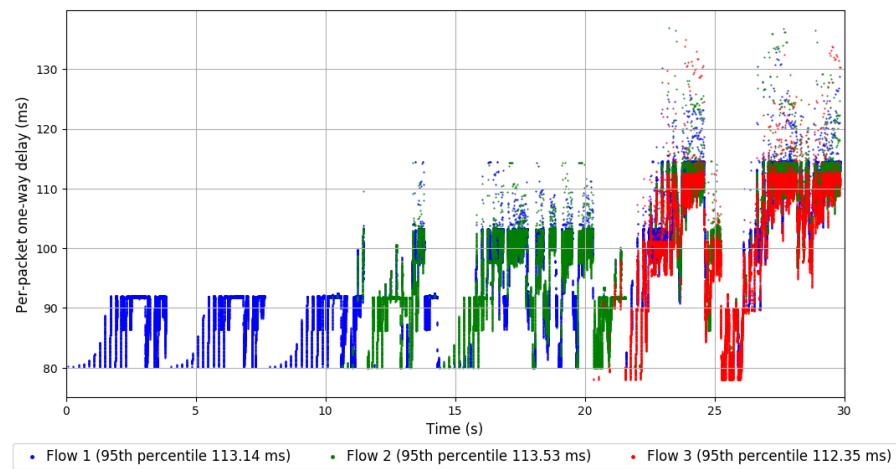
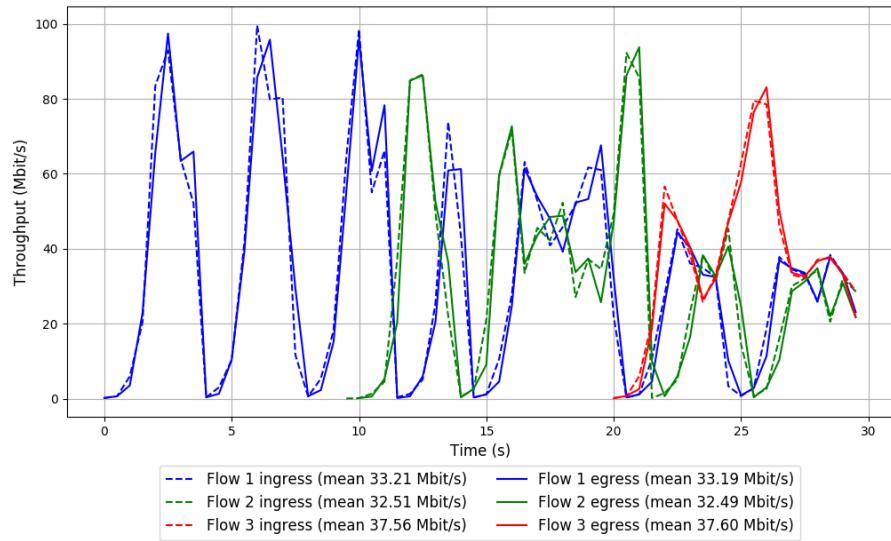


Run 1: Statistics of Verus

```
Start at: 2018-04-17 13:15:59
End at: 2018-04-17 13:16:29
Local clock offset: -5.766 ms
Remote clock offset: 10.804 ms

# Below is generated by plot.py at 2018-04-17 20:45:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 67.04 Mbit/s
95th percentile per-packet one-way delay: 112.956 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 33.19 Mbit/s
95th percentile per-packet one-way delay: 113.138 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 32.49 Mbit/s
95th percentile per-packet one-way delay: 113.527 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 37.60 Mbit/s
95th percentile per-packet one-way delay: 112.351 ms
Loss rate: 1.90%
```

Run 1: Report of Verus — Data Link

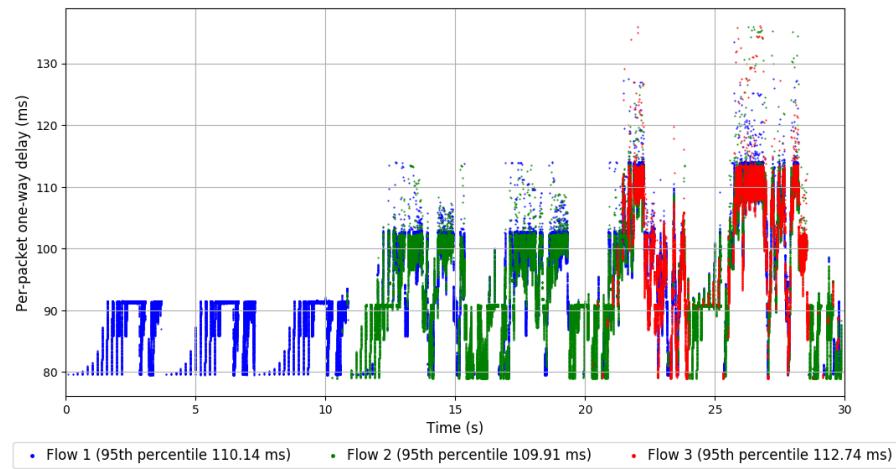
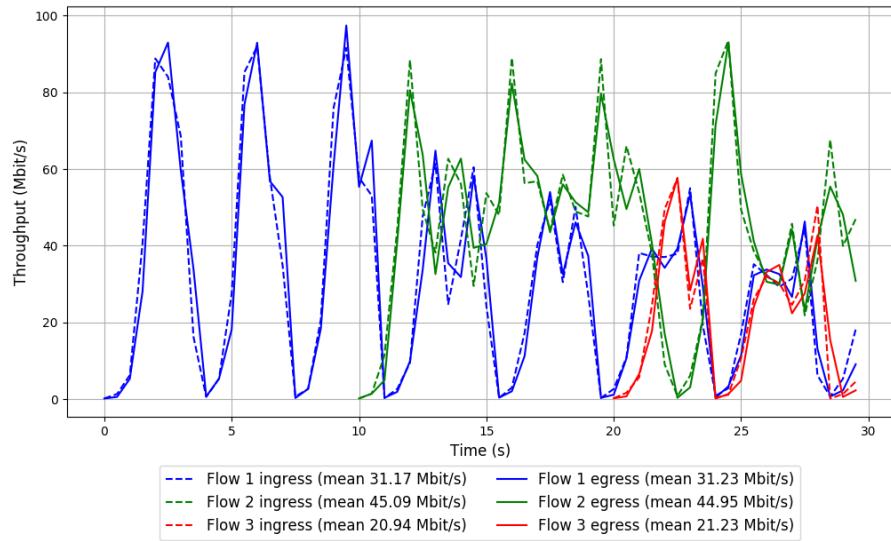


Run 2: Statistics of Verus

```
Start at: 2018-04-17 13:38:29
End at: 2018-04-17 13:38:59
Local clock offset: -2.515 ms
Remote clock offset: 12.36 ms

# Below is generated by plot.py at 2018-04-17 20:45:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 67.85 Mbit/s
95th percentile per-packet one-way delay: 111.058 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 31.23 Mbit/s
95th percentile per-packet one-way delay: 110.135 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 44.95 Mbit/s
95th percentile per-packet one-way delay: 109.911 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 21.23 Mbit/s
95th percentile per-packet one-way delay: 112.738 ms
Loss rate: 0.74%
```

Run 2: Report of Verus — Data Link

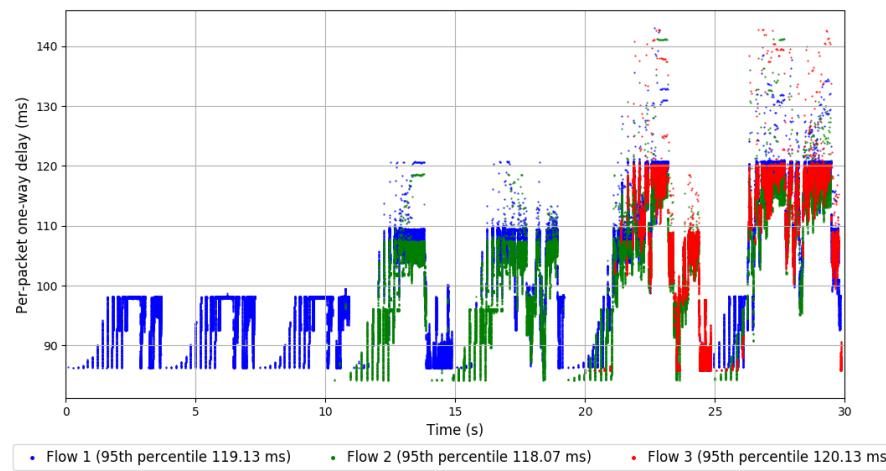
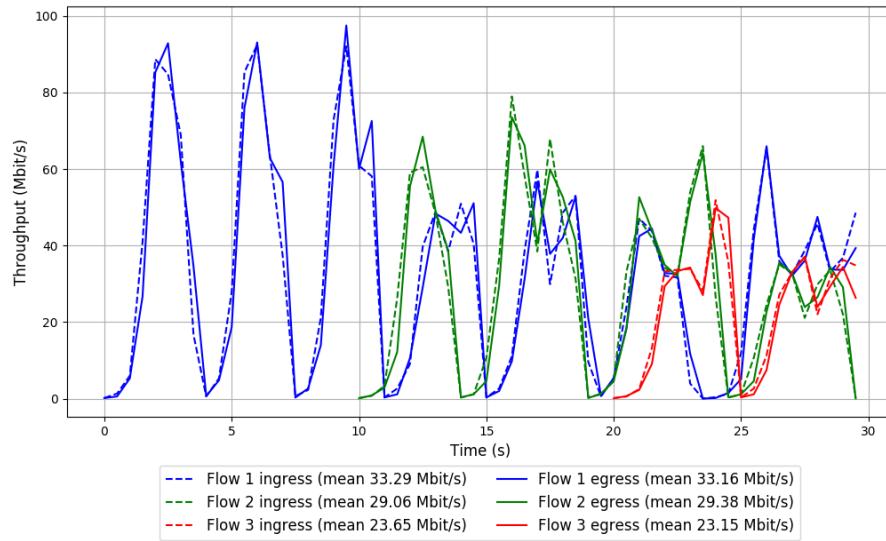


Run 3: Statistics of Verus

```
Start at: 2018-04-17 14:00:48
End at: 2018-04-17 14:01:18
Local clock offset: -3.034 ms
Remote clock offset: 5.769 ms

# Below is generated by plot.py at 2018-04-17 20:45:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 60.02 Mbit/s
95th percentile per-packet one-way delay: 119.435 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 33.16 Mbit/s
95th percentile per-packet one-way delay: 119.127 ms
Loss rate: 1.03%
-- Flow 2:
Average throughput: 29.38 Mbit/s
95th percentile per-packet one-way delay: 118.072 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 23.15 Mbit/s
95th percentile per-packet one-way delay: 120.134 ms
Loss rate: 3.92%
```

Run 3: Report of Verus — Data Link

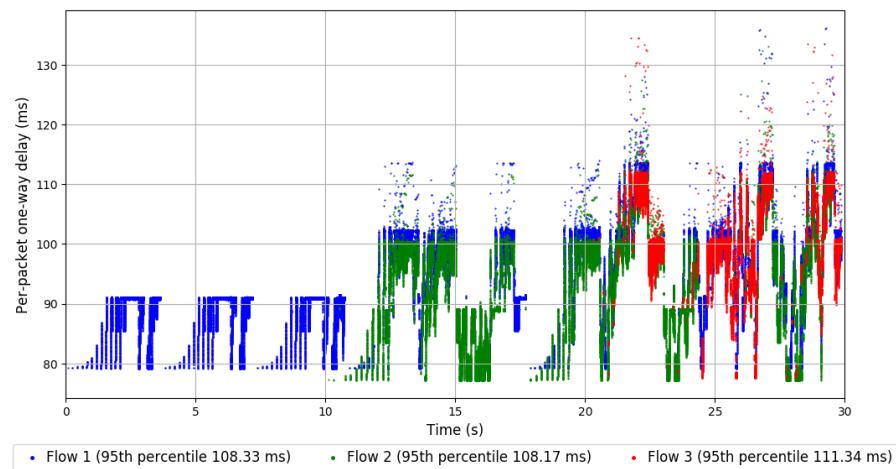
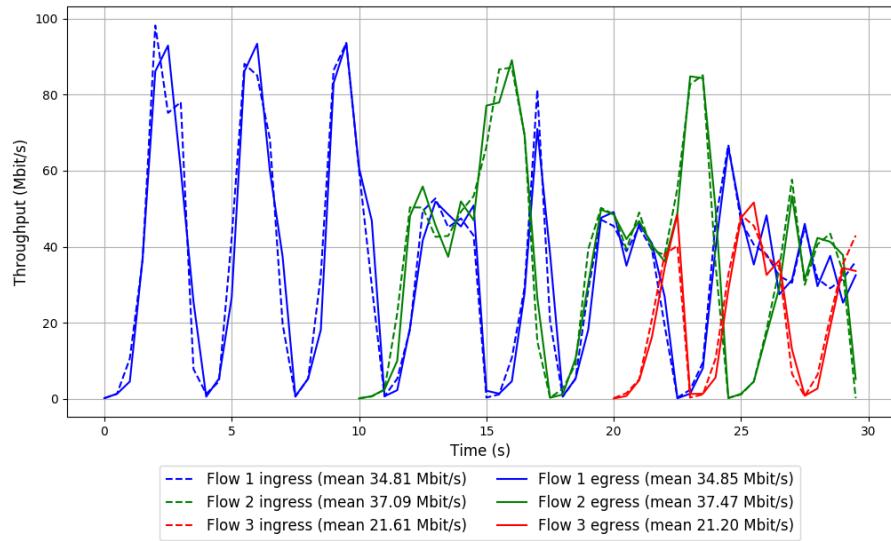


Run 4: Statistics of Verus

```
Start at: 2018-04-17 14:22:57
End at: 2018-04-17 14:23:27
Local clock offset: -6.512 ms
Remote clock offset: 10.989 ms

# Below is generated by plot.py at 2018-04-17 20:46:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.57 Mbit/s
95th percentile per-packet one-way delay: 109.289 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 34.85 Mbit/s
95th percentile per-packet one-way delay: 108.327 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 37.47 Mbit/s
95th percentile per-packet one-way delay: 108.173 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 21.20 Mbit/s
95th percentile per-packet one-way delay: 111.337 ms
Loss rate: 3.86%
```

Run 4: Report of Verus — Data Link

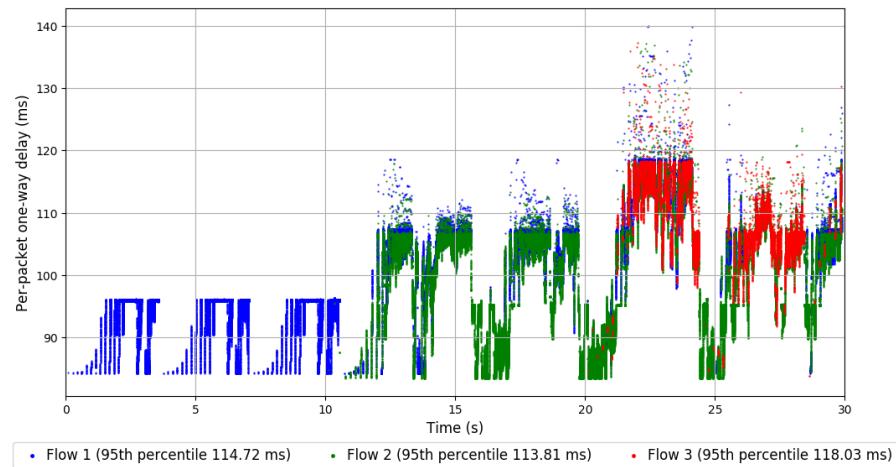
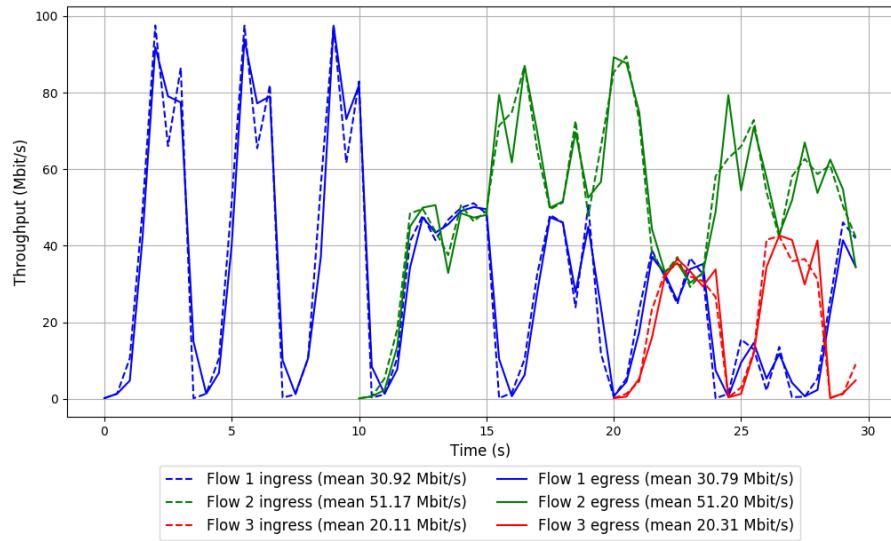


Run 5: Statistics of Verus

```
Start at: 2018-04-17 14:45:16
End at: 2018-04-17 14:45:46
Local clock offset: -5.455 ms
Remote clock offset: 4.671 ms

# Below is generated by plot.py at 2018-04-17 20:46:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 71.39 Mbit/s
95th percentile per-packet one-way delay: 115.556 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 30.79 Mbit/s
95th percentile per-packet one-way delay: 114.723 ms
Loss rate: 1.00%
-- Flow 2:
Average throughput: 51.20 Mbit/s
95th percentile per-packet one-way delay: 113.813 ms
Loss rate: 0.86%
-- Flow 3:
Average throughput: 20.31 Mbit/s
95th percentile per-packet one-way delay: 118.026 ms
Loss rate: 1.05%
```

Run 5: Report of Verus — Data Link

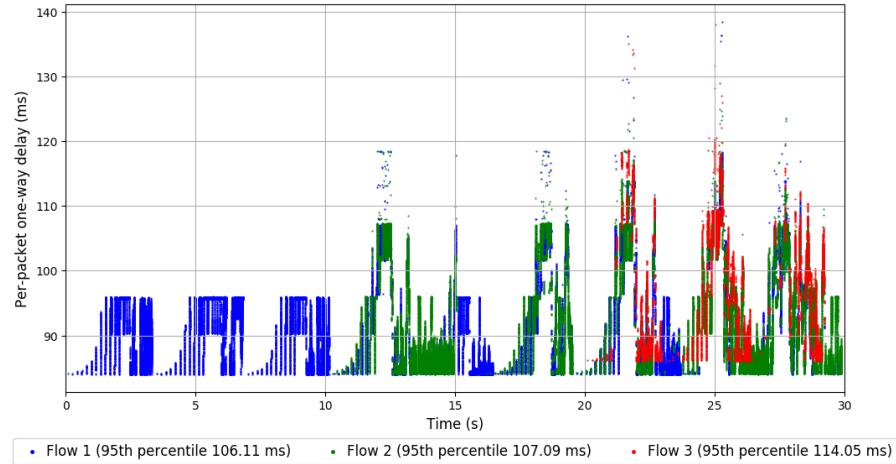
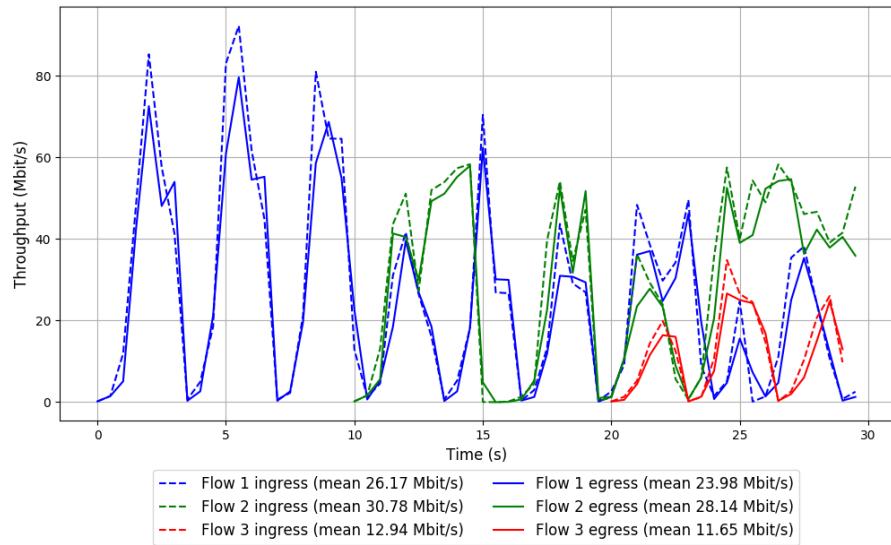


Run 6: Statistics of Verus

```
Start at: 2018-04-17 15:07:43
End at: 2018-04-17 15:08:13
Local clock offset: -5.47 ms
Remote clock offset: 5.052 ms

# Below is generated by plot.py at 2018-04-17 20:46:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 46.13 Mbit/s
95th percentile per-packet one-way delay: 107.056 ms
Loss rate: 9.22%
-- Flow 1:
Average throughput: 23.98 Mbit/s
95th percentile per-packet one-way delay: 106.109 ms
Loss rate: 8.90%
-- Flow 2:
Average throughput: 28.14 Mbit/s
95th percentile per-packet one-way delay: 107.091 ms
Loss rate: 9.44%
-- Flow 3:
Average throughput: 11.65 Mbit/s
95th percentile per-packet one-way delay: 114.050 ms
Loss rate: 10.16%
```

Run 6: Report of Verus — Data Link

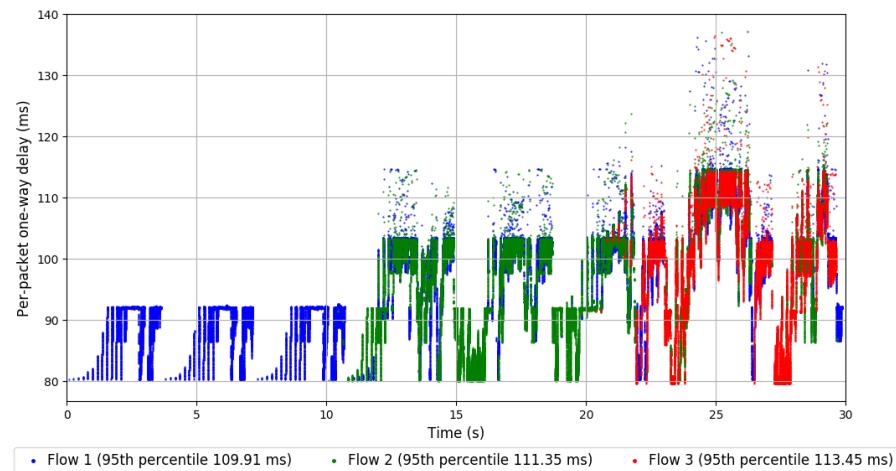
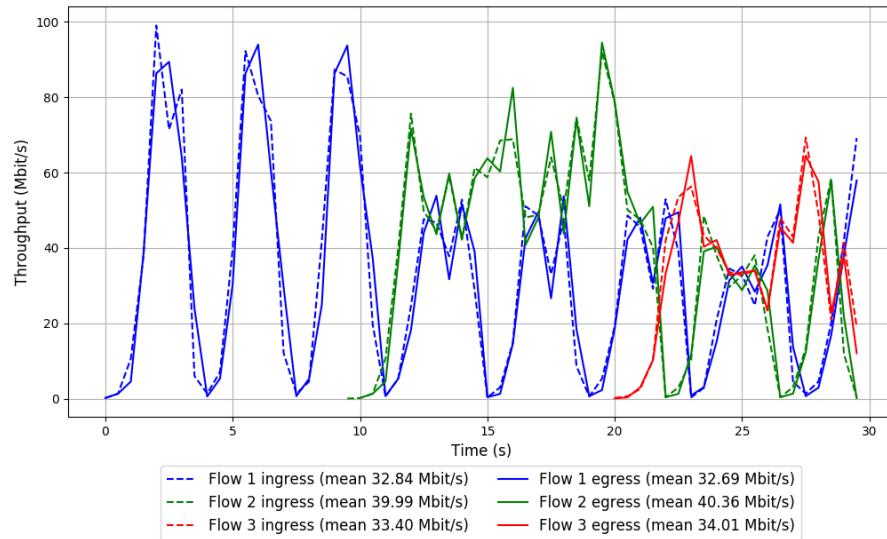


Run 7: Statistics of Verus

```
Start at: 2018-04-17 15:29:58
End at: 2018-04-17 15:30:28
Local clock offset: -5.539 ms
Remote clock offset: 11.702 ms

# Below is generated by plot.py at 2018-04-17 20:46:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 70.09 Mbit/s
95th percentile per-packet one-way delay: 111.522 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 32.69 Mbit/s
95th percentile per-packet one-way delay: 109.906 ms
Loss rate: 1.06%
-- Flow 2:
Average throughput: 40.36 Mbit/s
95th percentile per-packet one-way delay: 111.347 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 34.01 Mbit/s
95th percentile per-packet one-way delay: 113.452 ms
Loss rate: 2.66%
```

Run 7: Report of Verus — Data Link

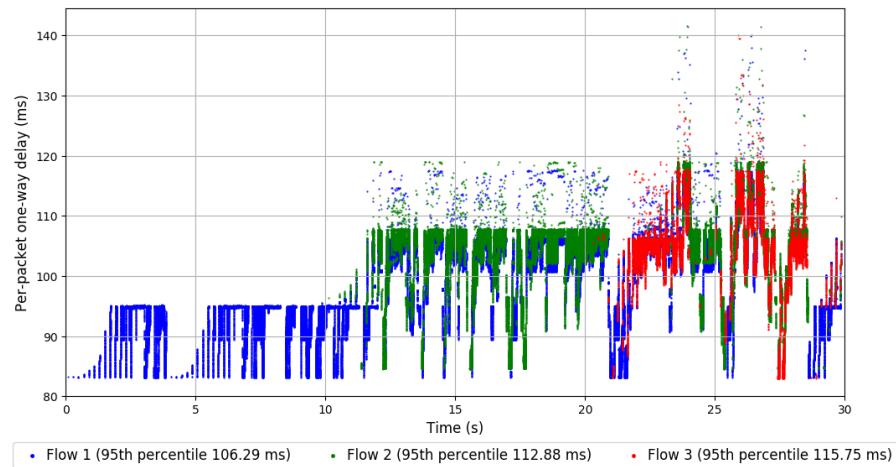
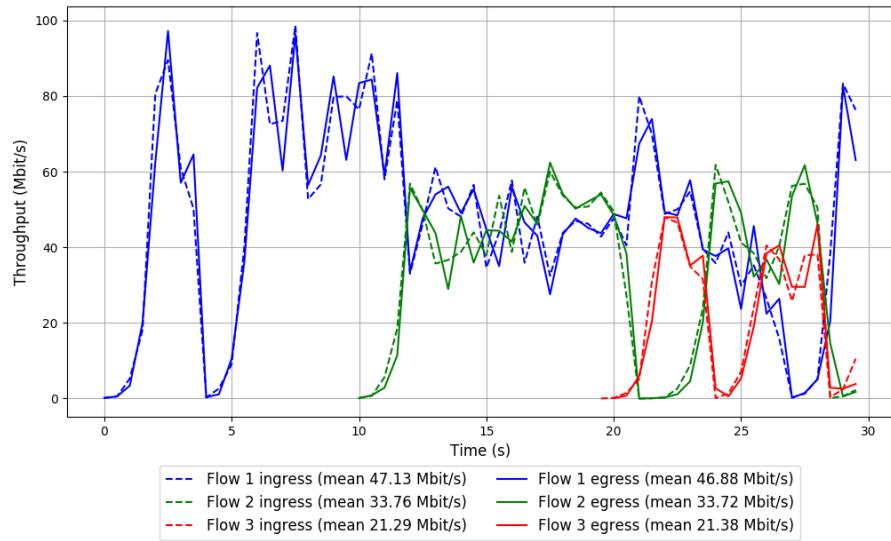


Run 8: Statistics of Verus

```
Start at: 2018-04-17 15:52:16
End at: 2018-04-17 15:52:46
Local clock offset: -5.581 ms
Remote clock offset: 5.159 ms

# Below is generated by plot.py at 2018-04-17 20:46:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.25 Mbit/s
95th percentile per-packet one-way delay: 111.340 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 46.88 Mbit/s
95th percentile per-packet one-way delay: 106.287 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 33.72 Mbit/s
95th percentile per-packet one-way delay: 112.883 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 21.38 Mbit/s
95th percentile per-packet one-way delay: 115.752 ms
Loss rate: 1.57%
```

Run 8: Report of Verus — Data Link

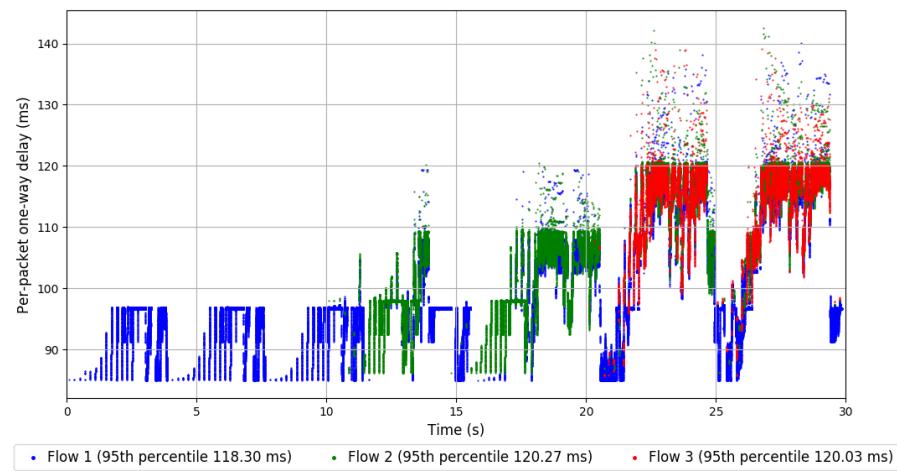
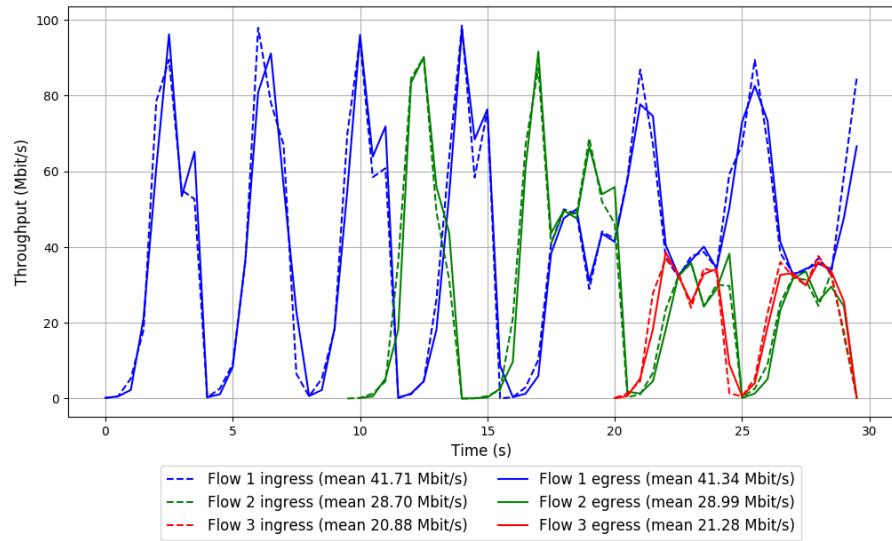


Run 9: Statistics of Verus

```
Start at: 2018-04-17 16:14:43
End at: 2018-04-17 16:15:13
Local clock offset: -4.418 ms
Remote clock offset: 3.841 ms

# Below is generated by plot.py at 2018-04-17 20:46:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 67.43 Mbit/s
95th percentile per-packet one-way delay: 119.342 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 41.34 Mbit/s
95th percentile per-packet one-way delay: 118.303 ms
Loss rate: 1.47%
-- Flow 2:
Average throughput: 28.99 Mbit/s
95th percentile per-packet one-way delay: 120.274 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 21.28 Mbit/s
95th percentile per-packet one-way delay: 120.033 ms
Loss rate: 0.05%
```

Run 9: Report of Verus — Data Link

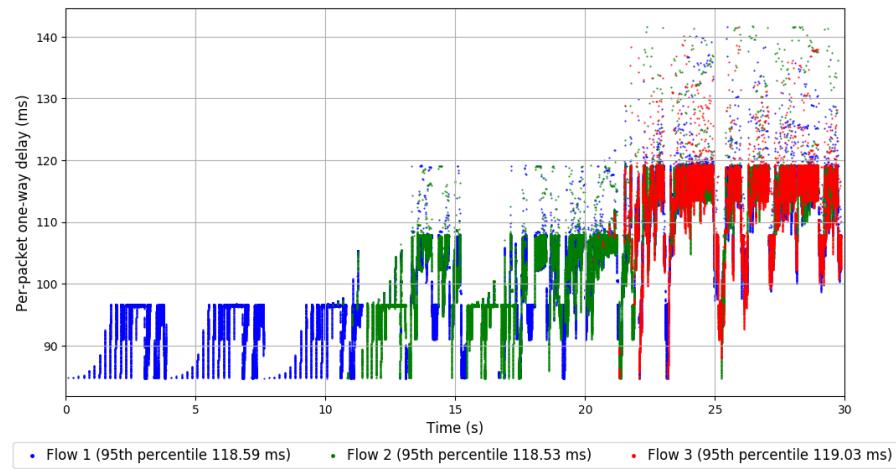
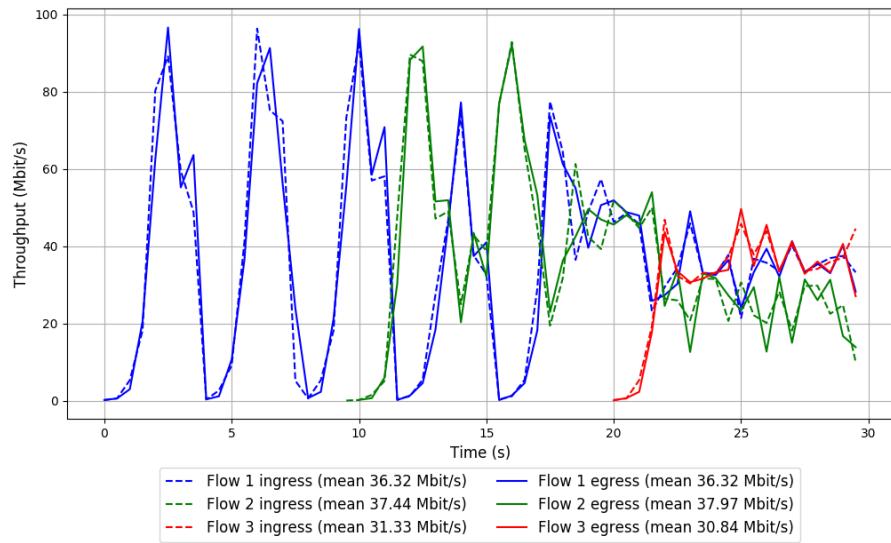


Run 10: Statistics of Verus

```
Start at: 2018-04-17 16:37:03
End at: 2018-04-17 16:37:33
Local clock offset: -3.031 ms
Remote clock offset: 4.675 ms

# Below is generated by plot.py at 2018-04-17 20:46:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 71.46 Mbit/s
95th percentile per-packet one-way delay: 118.788 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 36.32 Mbit/s
95th percentile per-packet one-way delay: 118.590 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 37.97 Mbit/s
95th percentile per-packet one-way delay: 118.535 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 30.84 Mbit/s
95th percentile per-packet one-way delay: 119.027 ms
Loss rate: 3.76%
```

Run 10: Report of Verus — Data Link

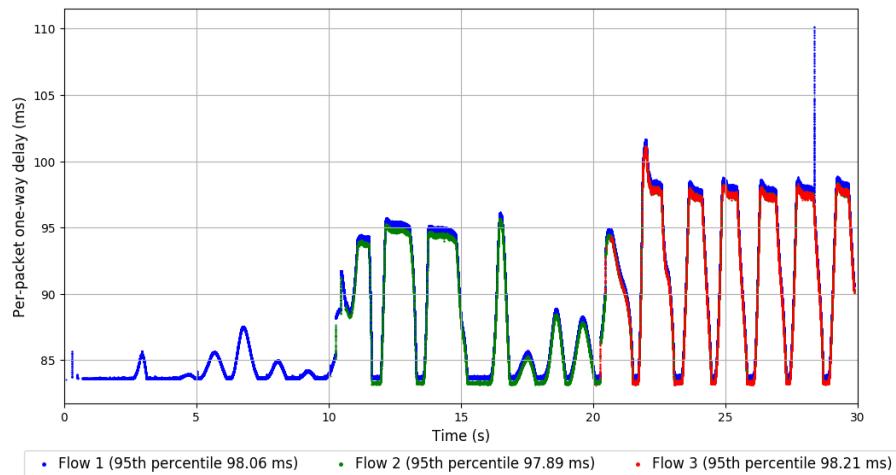
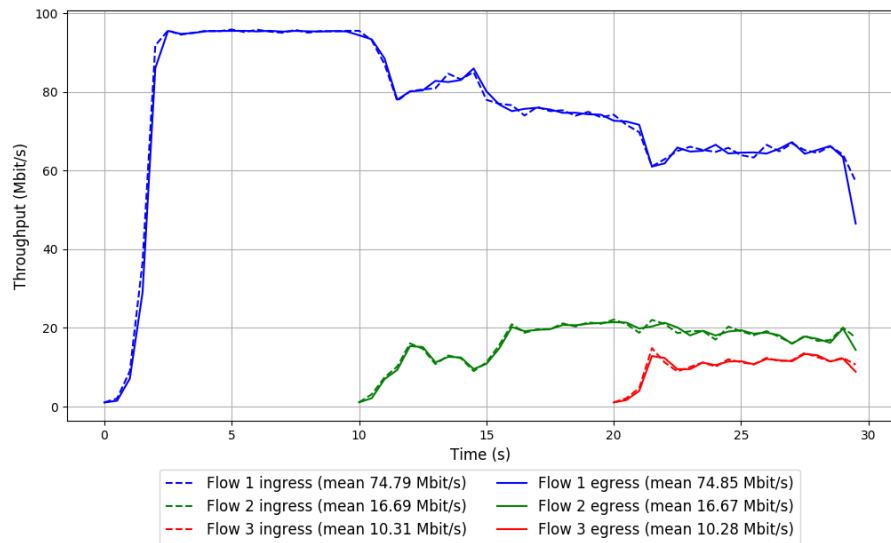


Run 1: Statistics of Copa

```
Start at: 2018-04-17 13:20:09
End at: 2018-04-17 13:20:39
Local clock offset: -6.488 ms
Remote clock offset: 5.179 ms

# Below is generated by plot.py at 2018-04-17 20:48:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.29 Mbit/s
95th percentile per-packet one-way delay: 98.038 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 74.85 Mbit/s
95th percentile per-packet one-way delay: 98.058 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 16.67 Mbit/s
95th percentile per-packet one-way delay: 97.890 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 10.28 Mbit/s
95th percentile per-packet one-way delay: 98.209 ms
Loss rate: 2.02%
```

Run 1: Report of Copa — Data Link

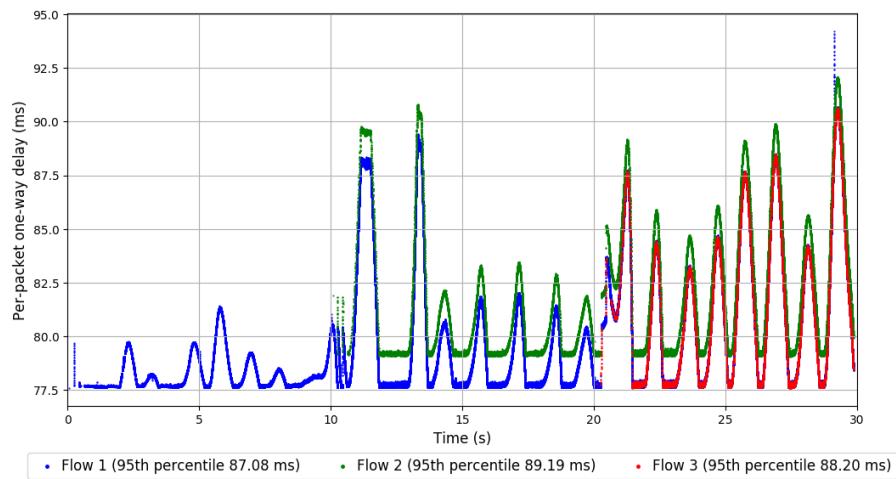
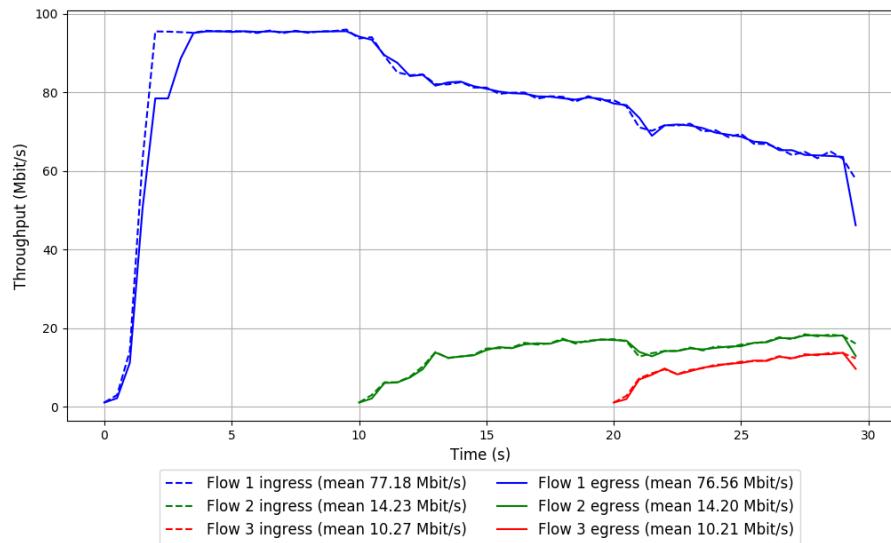


Run 2: Statistics of Copa

```
Start at: 2018-04-17 13:42:30
End at: 2018-04-17 13:43:00
Local clock offset: -2.946 ms
Remote clock offset: 11.719 ms

# Below is generated by plot.py at 2018-04-17 20:48:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.34 Mbit/s
95th percentile per-packet one-way delay: 87.462 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 76.56 Mbit/s
95th percentile per-packet one-way delay: 87.085 ms
Loss rate: 1.40%
-- Flow 2:
Average throughput: 14.20 Mbit/s
95th percentile per-packet one-way delay: 89.185 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 10.21 Mbit/s
95th percentile per-packet one-way delay: 88.205 ms
Loss rate: 2.40%
```

Run 2: Report of Copa — Data Link

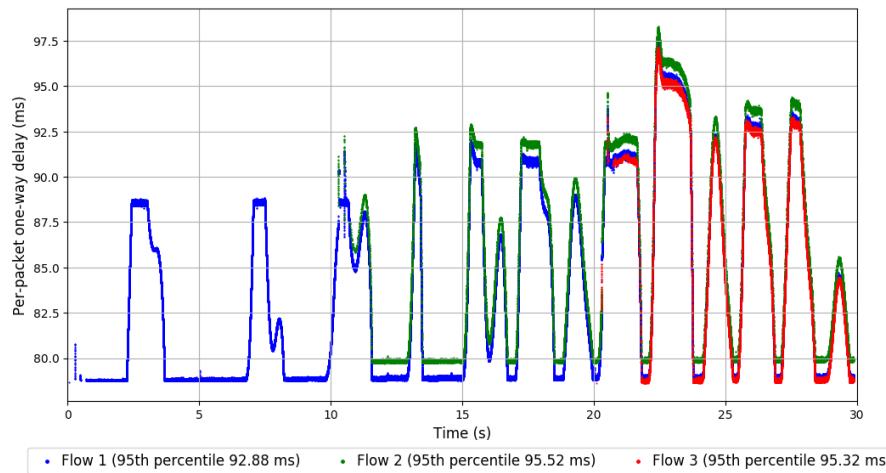
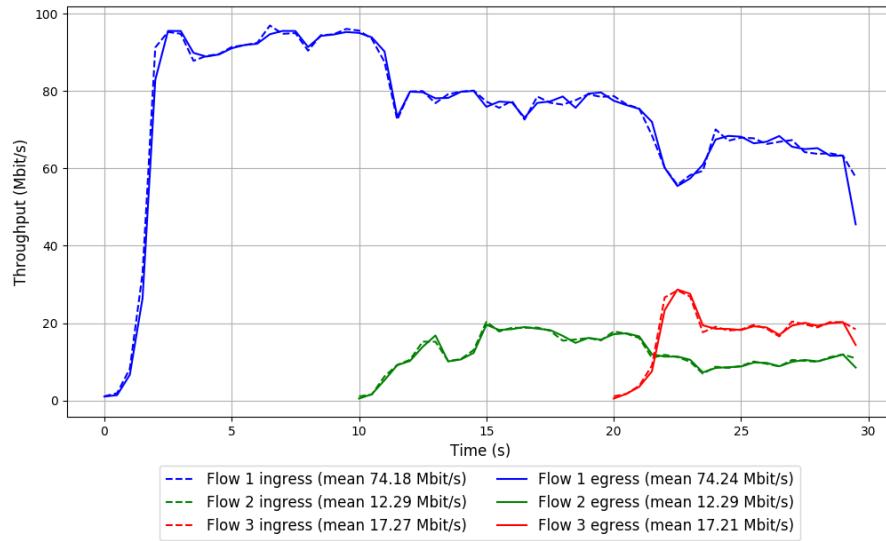


Run 3: Statistics of Copa

```
Start at: 2018-04-17 14:04:46
End at: 2018-04-17 14:05:16
Local clock offset: -4.092 ms
Remote clock offset: 11.289 ms

# Below is generated by plot.py at 2018-04-17 20:48:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.05 Mbit/s
95th percentile per-packet one-way delay: 93.584 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 74.24 Mbit/s
95th percentile per-packet one-way delay: 92.875 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 12.29 Mbit/s
95th percentile per-packet one-way delay: 95.522 ms
Loss rate: 0.89%
-- Flow 3:
Average throughput: 17.21 Mbit/s
95th percentile per-packet one-way delay: 95.323 ms
Loss rate: 2.13%
```

Run 3: Report of Copa — Data Link

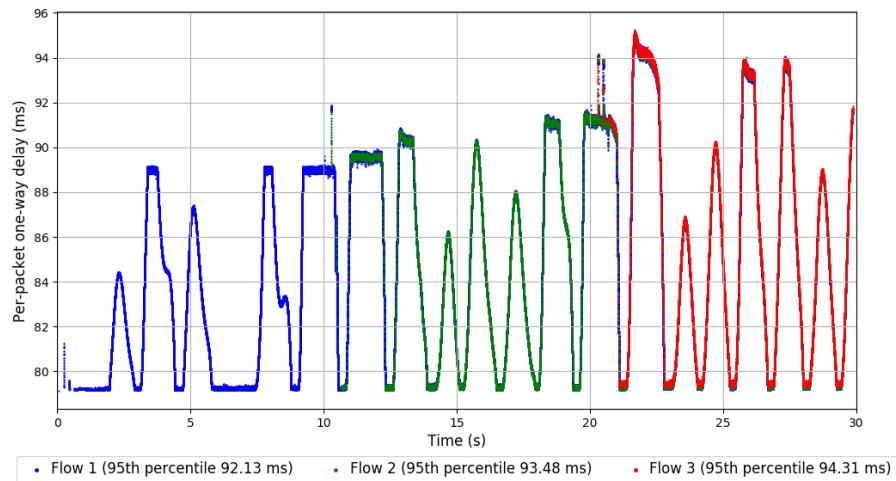
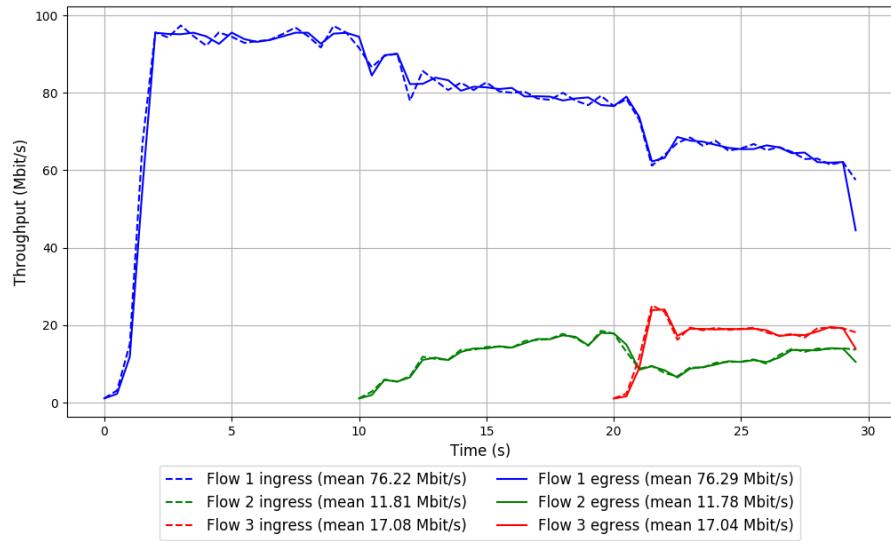


Run 4: Statistics of Copa

```
Start at: 2018-04-17 14:26:57
End at: 2018-04-17 14:27:27
Local clock offset: -5.847 ms
Remote clock offset: 11.779 ms

# Below is generated by plot.py at 2018-04-17 20:48:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.69 Mbit/s
95th percentile per-packet one-way delay: 93.263 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 76.29 Mbit/s
95th percentile per-packet one-way delay: 92.132 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 11.78 Mbit/s
95th percentile per-packet one-way delay: 93.482 ms
Loss rate: 1.18%
-- Flow 3:
Average throughput: 17.04 Mbit/s
95th percentile per-packet one-way delay: 94.307 ms
Loss rate: 2.18%
```

Run 4: Report of Copa — Data Link

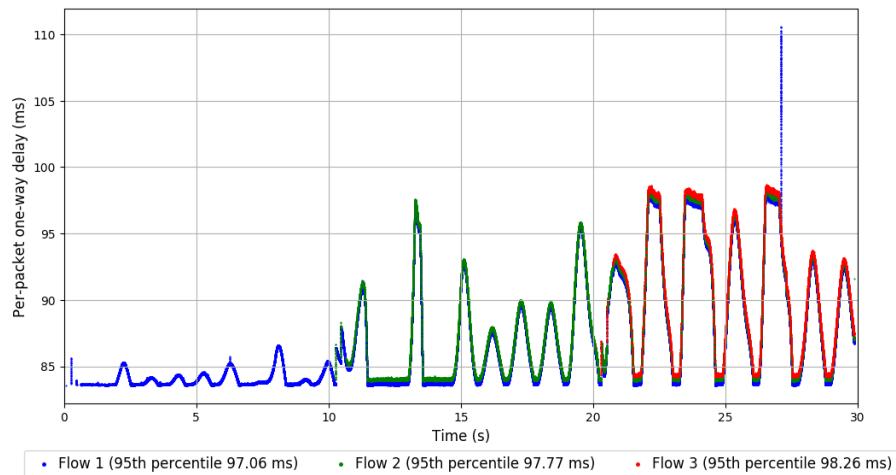
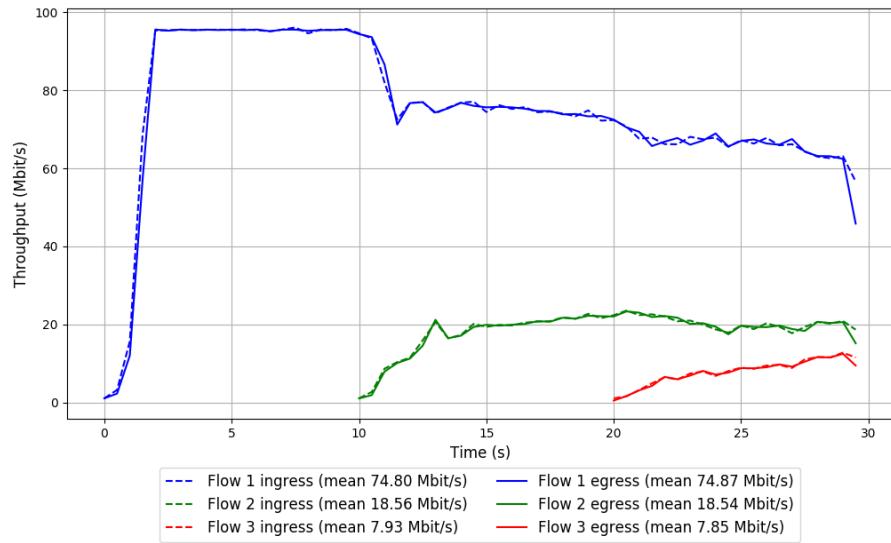


Run 5: Statistics of Copa

```
Start at: 2018-04-17 14:49:16
End at: 2018-04-17 14:49:46
Local clock offset: -5.408 ms
Remote clock offset: 4.66 ms

# Below is generated by plot.py at 2018-04-17 20:48:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.75 Mbit/s
95th percentile per-packet one-way delay: 97.307 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 74.87 Mbit/s
95th percentile per-packet one-way delay: 97.057 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 18.54 Mbit/s
95th percentile per-packet one-way delay: 97.766 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 7.85 Mbit/s
95th percentile per-packet one-way delay: 98.256 ms
Loss rate: 2.83%
```

Run 5: Report of Copa — Data Link

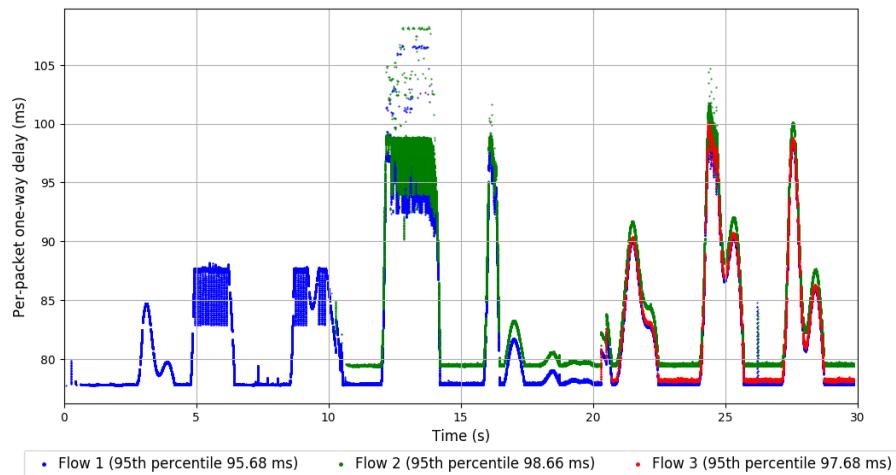
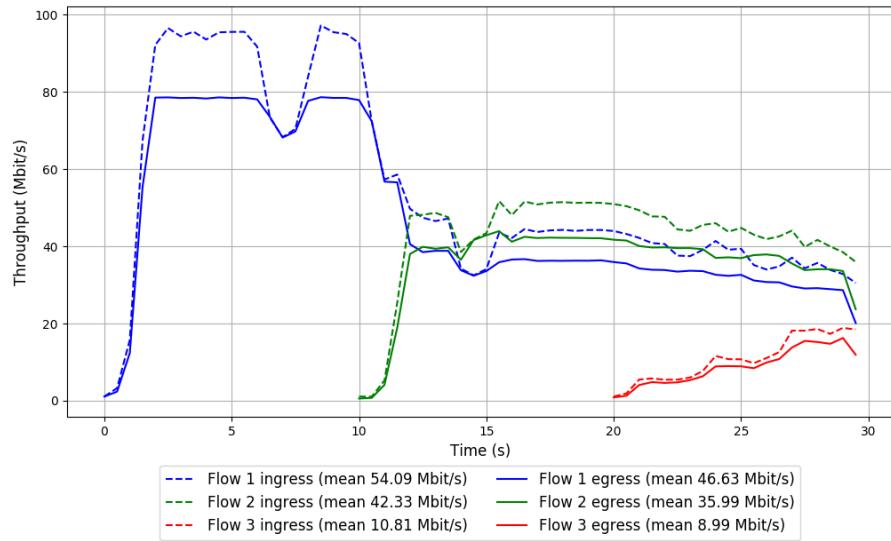


Run 6: Statistics of Copa

```
Start at: 2018-04-17 15:11:39
End at: 2018-04-17 15:12:09
Local clock offset: -6.218 ms
Remote clock offset: 11.012 ms

# Below is generated by plot.py at 2018-04-17 20:48:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 73.46 Mbit/s
95th percentile per-packet one-way delay: 97.119 ms
Loss rate: 14.95%
-- Flow 1:
Average throughput: 46.63 Mbit/s
95th percentile per-packet one-way delay: 95.676 ms
Loss rate: 14.30%
-- Flow 2:
Average throughput: 35.99 Mbit/s
95th percentile per-packet one-way delay: 98.659 ms
Loss rate: 15.78%
-- Flow 3:
Average throughput: 8.99 Mbit/s
95th percentile per-packet one-way delay: 97.679 ms
Loss rate: 18.36%
```

Run 6: Report of Copa — Data Link

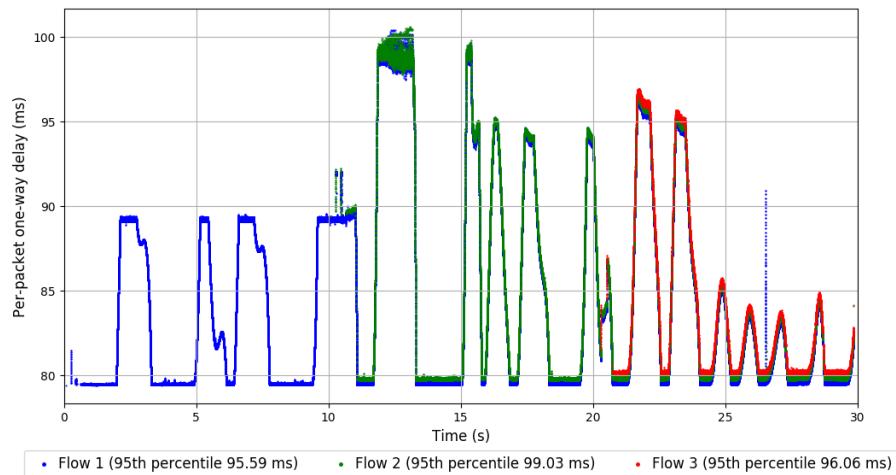
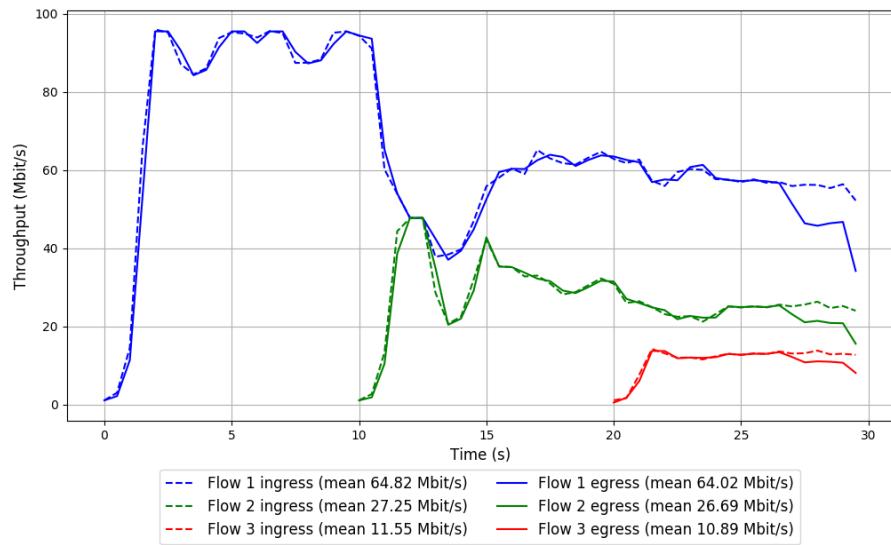


Run 7: Statistics of Copa

```
Start at: 2018-04-17 15:33:57
End at: 2018-04-17 15:34:27
Local clock offset: -5.524 ms
Remote clock offset: 11.807 ms

# Below is generated by plot.py at 2018-04-17 20:48:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.30 Mbit/s
95th percentile per-packet one-way delay: 98.541 ms
Loss rate: 2.31%
-- Flow 1:
Average throughput: 64.02 Mbit/s
95th percentile per-packet one-way delay: 95.589 ms
Loss rate: 1.82%
-- Flow 2:
Average throughput: 26.69 Mbit/s
95th percentile per-packet one-way delay: 99.027 ms
Loss rate: 2.97%
-- Flow 3:
Average throughput: 10.89 Mbit/s
95th percentile per-packet one-way delay: 96.062 ms
Loss rate: 7.44%
```

Run 7: Report of Copa — Data Link

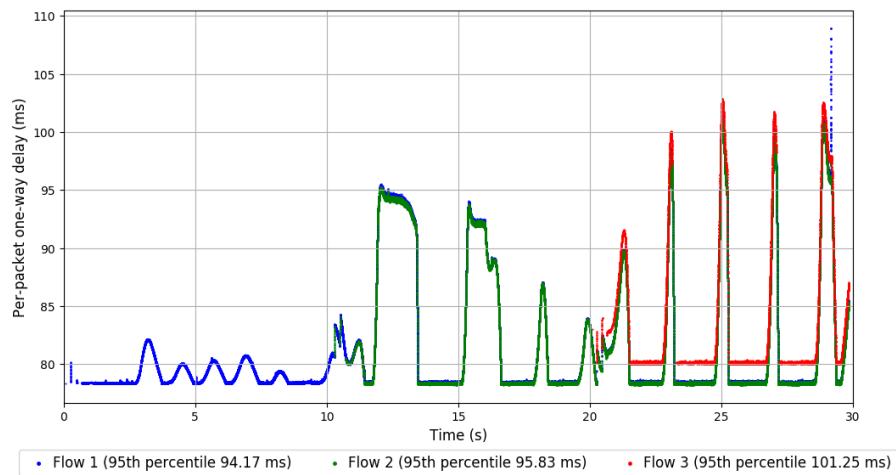
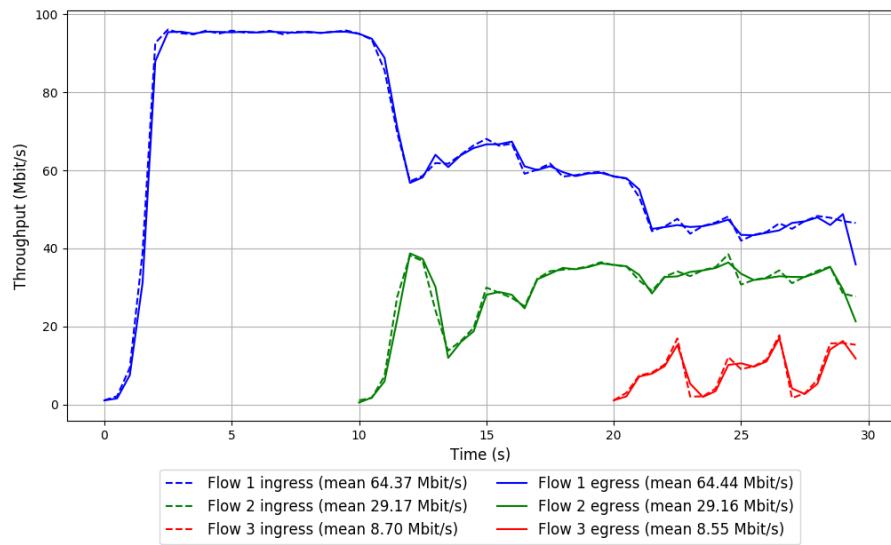


Run 8: Statistics of Copa

```
Start at: 2018-04-17 15:56:16
End at: 2018-04-17 15:56:46
Local clock offset: -5.555 ms
Remote clock offset: 9.797 ms

# Below is generated by plot.py at 2018-04-17 20:49:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.61 Mbit/s
95th percentile per-packet one-way delay: 94.439 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 64.44 Mbit/s
95th percentile per-packet one-way delay: 94.166 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 29.16 Mbit/s
95th percentile per-packet one-way delay: 95.827 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 8.55 Mbit/s
95th percentile per-packet one-way delay: 101.251 ms
Loss rate: 3.55%
```

Run 8: Report of Copa — Data Link

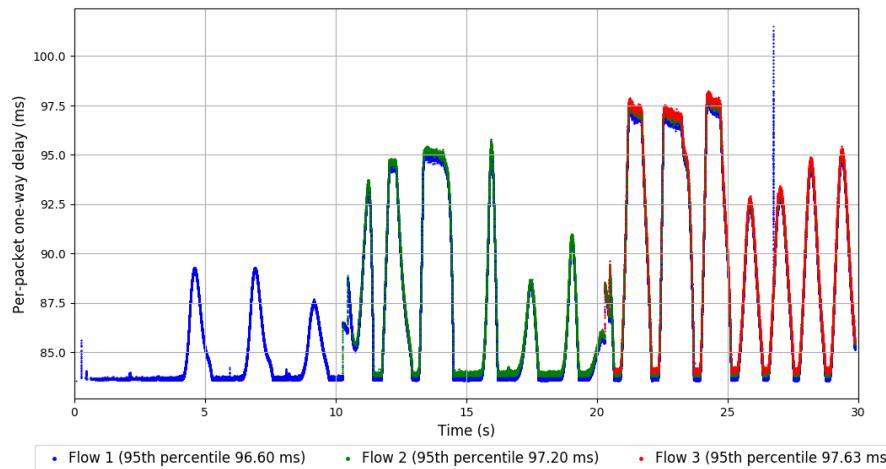
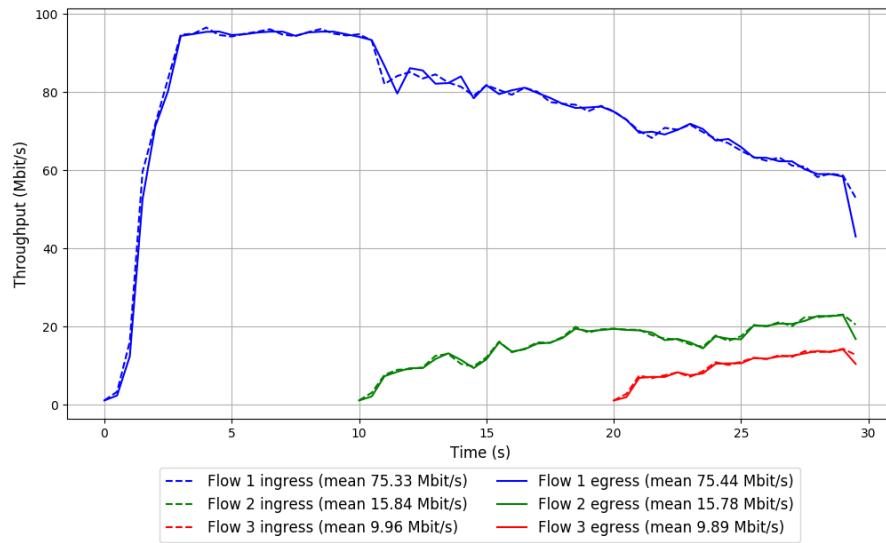


Run 9: Statistics of Copa

```
Start at: 2018-04-17 16:18:43
End at: 2018-04-17 16:19:13
Local clock offset: -4.413 ms
Remote clock offset: 3.85 ms

# Below is generated by plot.py at 2018-04-17 20:50:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.15 Mbit/s
95th percentile per-packet one-way delay: 96.784 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 75.44 Mbit/s
95th percentile per-packet one-way delay: 96.601 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 15.78 Mbit/s
95th percentile per-packet one-way delay: 97.201 ms
Loss rate: 1.25%
-- Flow 3:
Average throughput: 9.89 Mbit/s
95th percentile per-packet one-way delay: 97.631 ms
Loss rate: 2.50%
```

Run 9: Report of Copa — Data Link

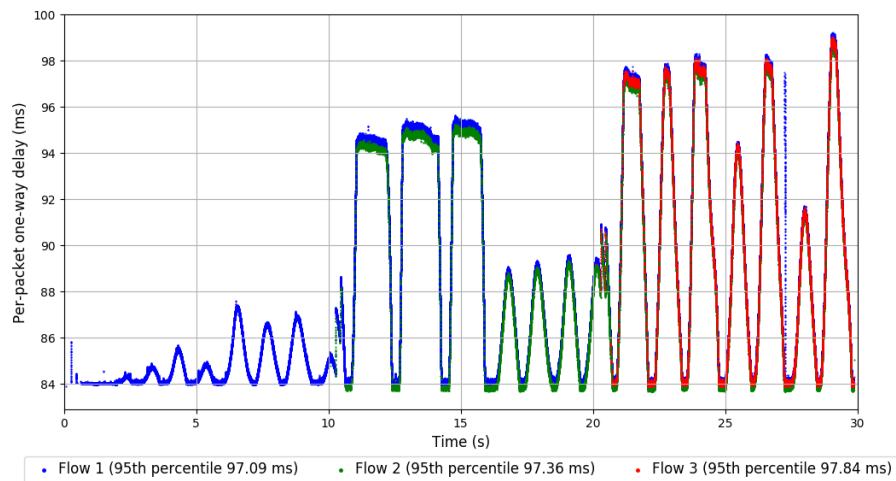
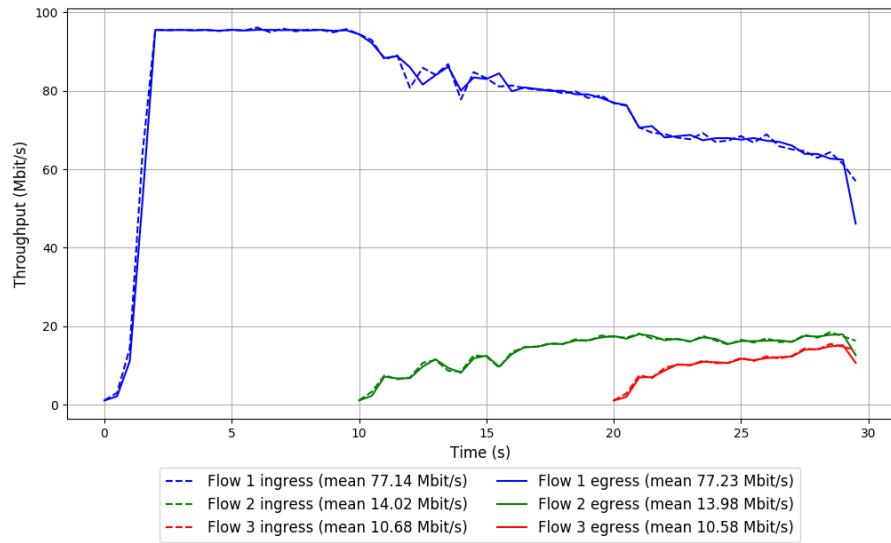


Run 10: Statistics of Copa

```
Start at: 2018-04-17 16:41:04
End at: 2018-04-17 16:41:34
Local clock offset: -2.116 ms
Remote clock offset: 4.689 ms

# Below is generated by plot.py at 2018-04-17 20:50:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.98 Mbit/s
95th percentile per-packet one-way delay: 97.222 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 77.23 Mbit/s
95th percentile per-packet one-way delay: 97.091 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 13.98 Mbit/s
95th percentile per-packet one-way delay: 97.364 ms
Loss rate: 1.21%
-- Flow 3:
Average throughput: 10.58 Mbit/s
95th percentile per-packet one-way delay: 97.845 ms
Loss rate: 2.79%
```

Run 10: Report of Copa — Data Link

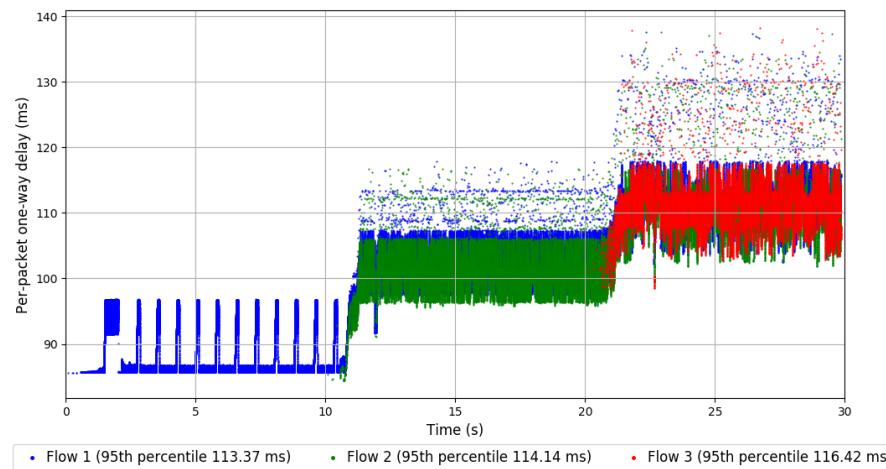
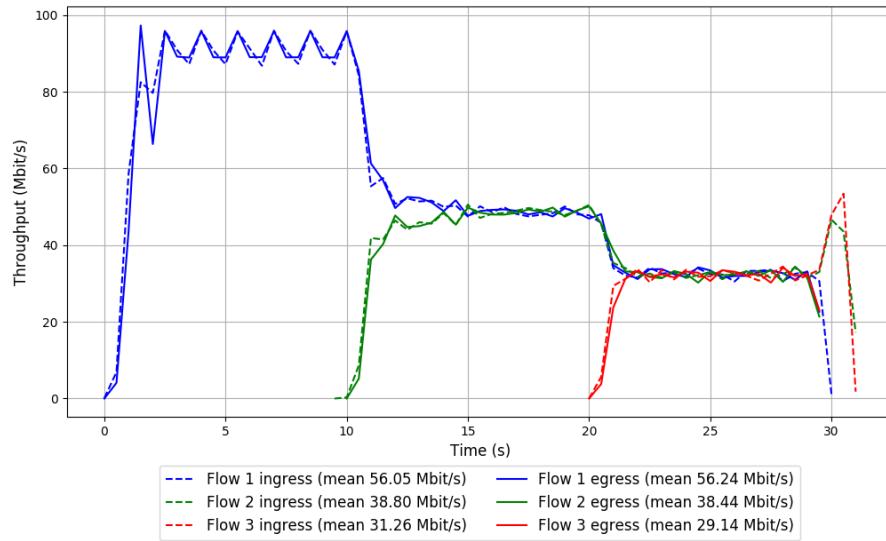


```
Run 1: Statistics of FillP

Start at: 2018-04-17 13:11:59
End at: 2018-04-17 13:12:29
Local clock offset: -5.667 ms
Remote clock offset: 5.033 ms

# Below is generated by plot.py at 2018-04-17 20:50:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.29 Mbit/s
95th percentile per-packet one-way delay: 114.396 ms
Loss rate: 4.61%
-- Flow 1:
Average throughput: 56.24 Mbit/s
95th percentile per-packet one-way delay: 113.367 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 38.44 Mbit/s
95th percentile per-packet one-way delay: 114.142 ms
Loss rate: 7.68%
-- Flow 3:
Average throughput: 29.14 Mbit/s
95th percentile per-packet one-way delay: 116.421 ms
Loss rate: 17.48%
```

Run 1: Report of FillP — Data Link

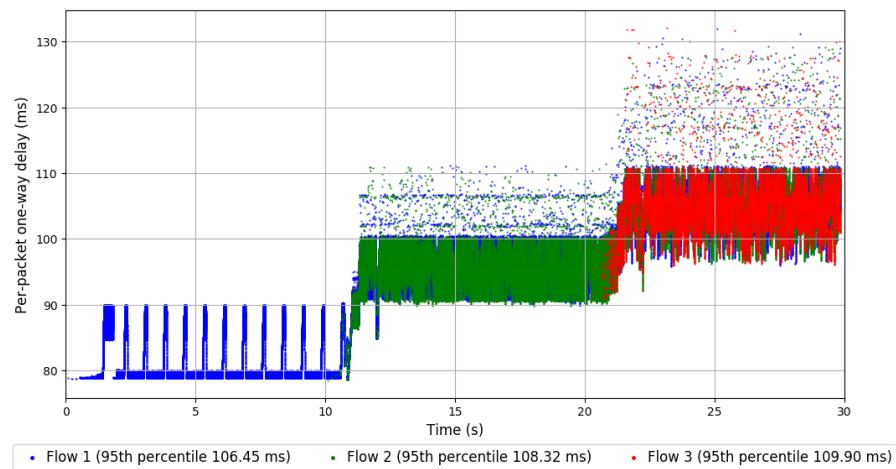
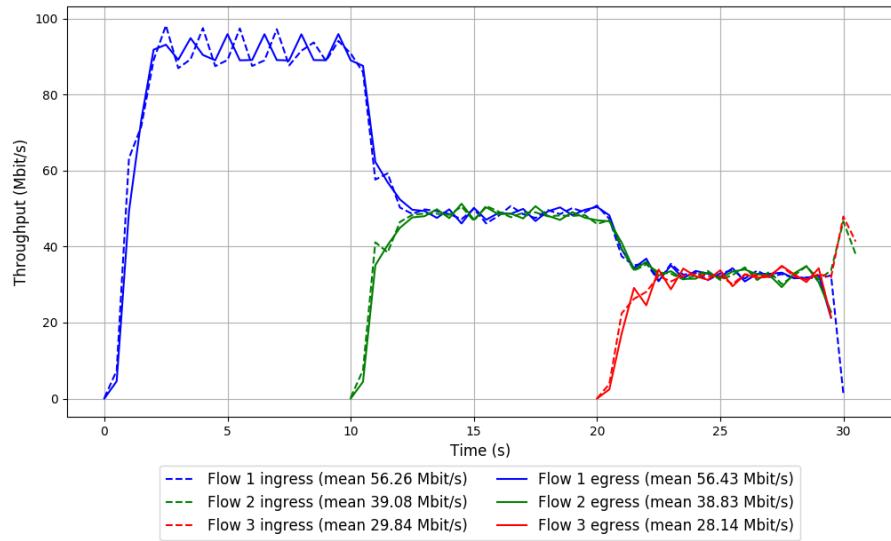


Run 2: Statistics of FillP

```
Start at: 2018-04-17 13:34:32
End at: 2018-04-17 13:35:02
Local clock offset: -2.194 ms
Remote clock offset: 11.533 ms

# Below is generated by plot.py at 2018-04-17 20:50:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.39 Mbit/s
95th percentile per-packet one-way delay: 107.958 ms
Loss rate: 4.00%
-- Flow 1:
Average throughput: 56.43 Mbit/s
95th percentile per-packet one-way delay: 106.450 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 38.83 Mbit/s
95th percentile per-packet one-way delay: 108.318 ms
Loss rate: 6.28%
-- Flow 3:
Average throughput: 28.14 Mbit/s
95th percentile per-packet one-way delay: 109.900 ms
Loss rate: 16.17%
```

Run 2: Report of FillP — Data Link

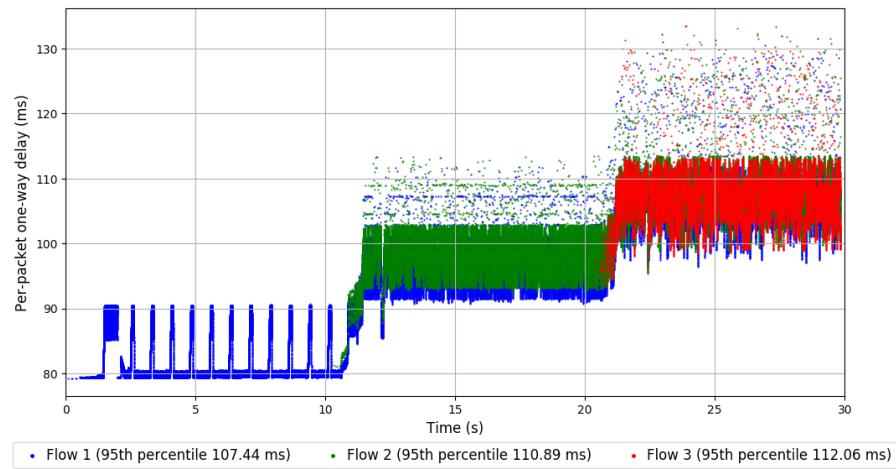
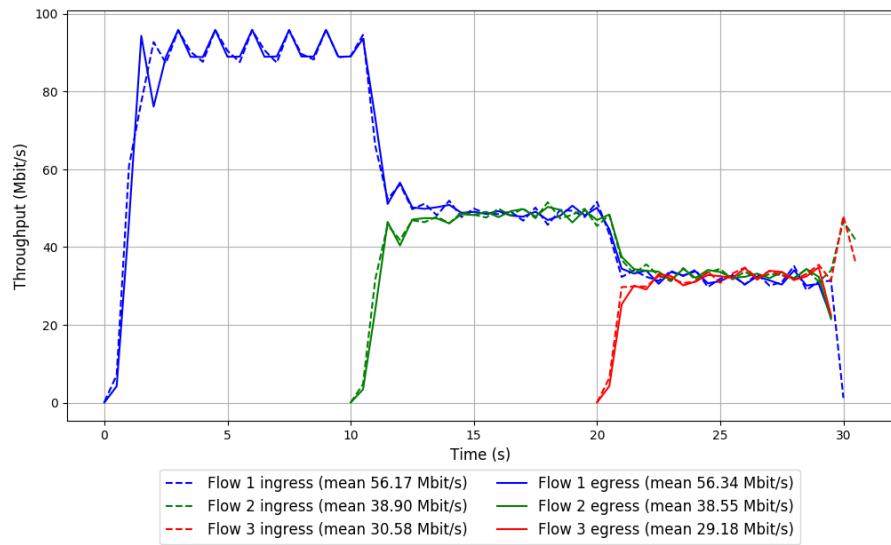


Run 3: Statistics of FillP

```
Start at: 2018-04-17 13:56:51
End at: 2018-04-17 13:57:21
Local clock offset: -1.477 ms
Remote clock offset: 10.908 ms

# Below is generated by plot.py at 2018-04-17 20:50:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.46 Mbit/s
95th percentile per-packet one-way delay: 109.966 ms
Loss rate: 3.97%
-- Flow 1:
Average throughput: 56.34 Mbit/s
95th percentile per-packet one-way delay: 107.442 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 38.55 Mbit/s
95th percentile per-packet one-way delay: 110.894 ms
Loss rate: 6.55%
-- Flow 3:
Average throughput: 29.18 Mbit/s
95th percentile per-packet one-way delay: 112.061 ms
Loss rate: 15.08%
```

Run 3: Report of FillP — Data Link

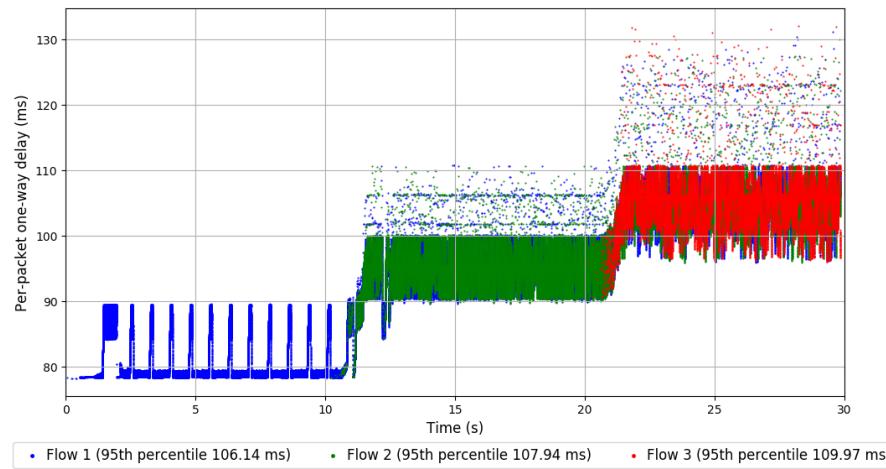
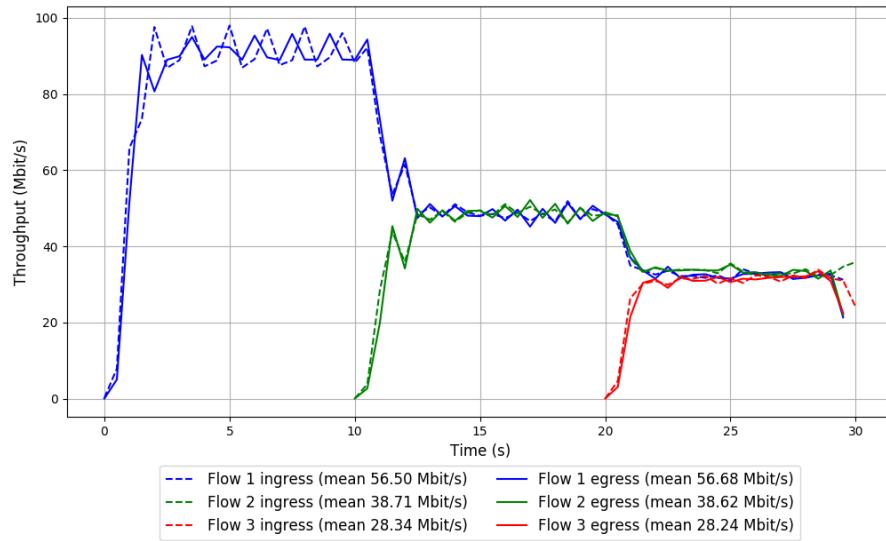


Run 4: Statistics of FillP

```
Start at: 2018-04-17 14:19:01
End at: 2018-04-17 14:19:31
Local clock offset: -5.569 ms
Remote clock offset: 11.025 ms

# Below is generated by plot.py at 2018-04-17 20:50:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.50 Mbit/s
95th percentile per-packet one-way delay: 107.813 ms
Loss rate: 2.00%
-- Flow 1:
Average throughput: 56.68 Mbit/s
95th percentile per-packet one-way delay: 106.145 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 38.62 Mbit/s
95th percentile per-packet one-way delay: 107.937 ms
Loss rate: 3.46%
-- Flow 3:
Average throughput: 28.24 Mbit/s
95th percentile per-packet one-way delay: 109.967 ms
Loss rate: 6.77%
```

Run 4: Report of FillP — Data Link

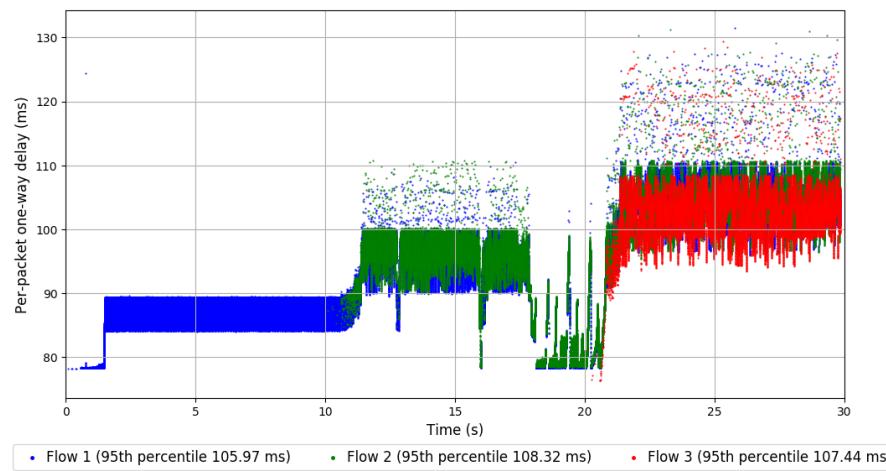
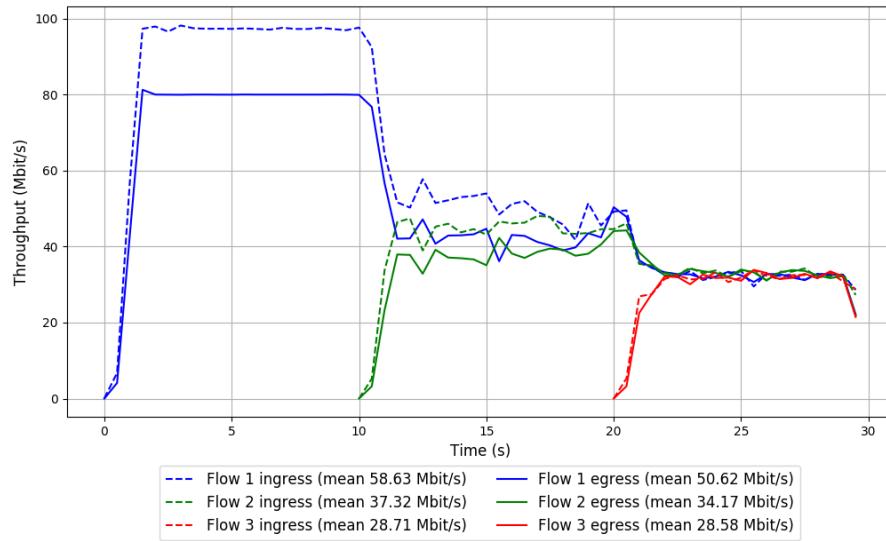


Run 5: Statistics of FillP

```
Start at: 2018-04-17 14:41:20
End at: 2018-04-17 14:41:50
Local clock offset: -6.285 ms
Remote clock offset: 11.196 ms

# Below is generated by plot.py at 2018-04-17 20:50:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.61 Mbit/s
95th percentile per-packet one-way delay: 107.079 ms
Loss rate: 11.71%
-- Flow 1:
Average throughput: 50.62 Mbit/s
95th percentile per-packet one-way delay: 105.965 ms
Loss rate: 14.22%
-- Flow 2:
Average throughput: 34.17 Mbit/s
95th percentile per-packet one-way delay: 108.322 ms
Loss rate: 9.38%
-- Flow 3:
Average throughput: 28.58 Mbit/s
95th percentile per-packet one-way delay: 107.440 ms
Loss rate: 2.29%
```

Run 5: Report of FillP — Data Link

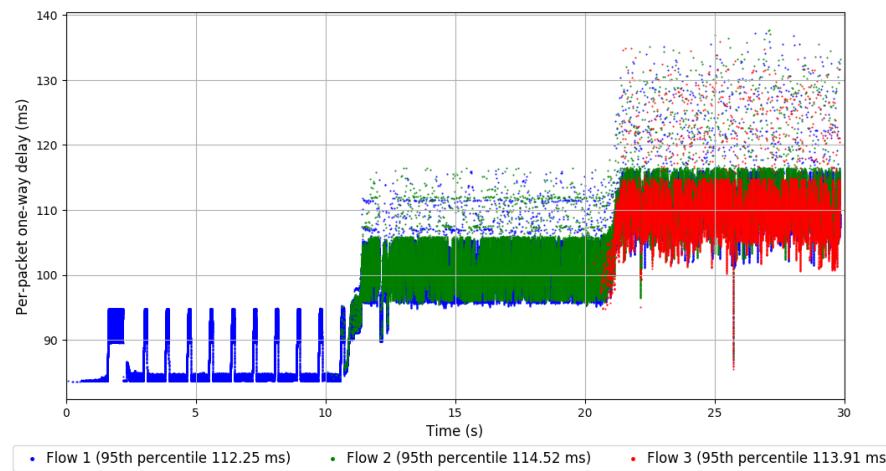
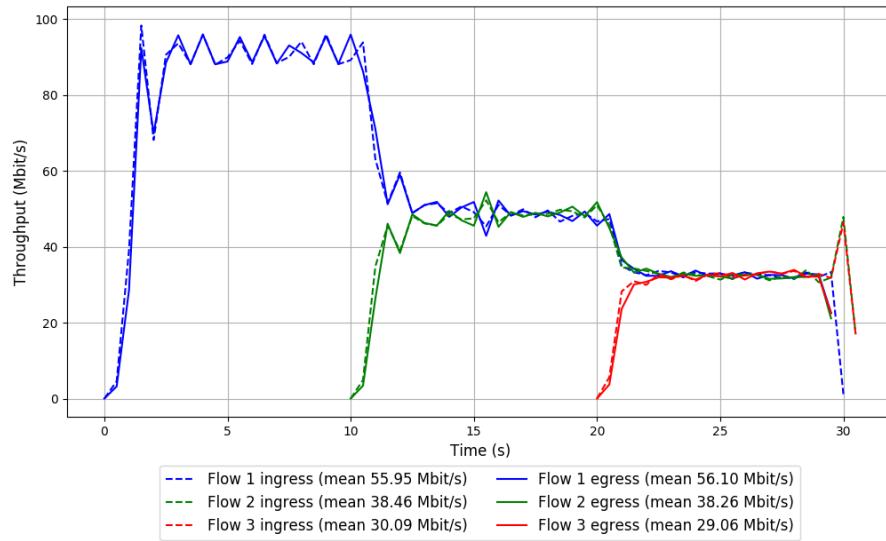


Run 6: Statistics of FillP

```
Start at: 2018-04-17 15:03:45
End at: 2018-04-17 15:04:15
Local clock offset: -6.206 ms
Remote clock offset: 5.404 ms

# Below is generated by plot.py at 2018-04-17 20:50:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.99 Mbit/s
95th percentile per-packet one-way delay: 113.484 ms
Loss rate: 3.22%
-- Flow 1:
Average throughput: 56.10 Mbit/s
95th percentile per-packet one-way delay: 112.250 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 38.26 Mbit/s
95th percentile per-packet one-way delay: 114.517 ms
Loss rate: 5.15%
-- Flow 3:
Average throughput: 29.06 Mbit/s
95th percentile per-packet one-way delay: 113.911 ms
Loss rate: 12.40%
```

Run 6: Report of FillP — Data Link

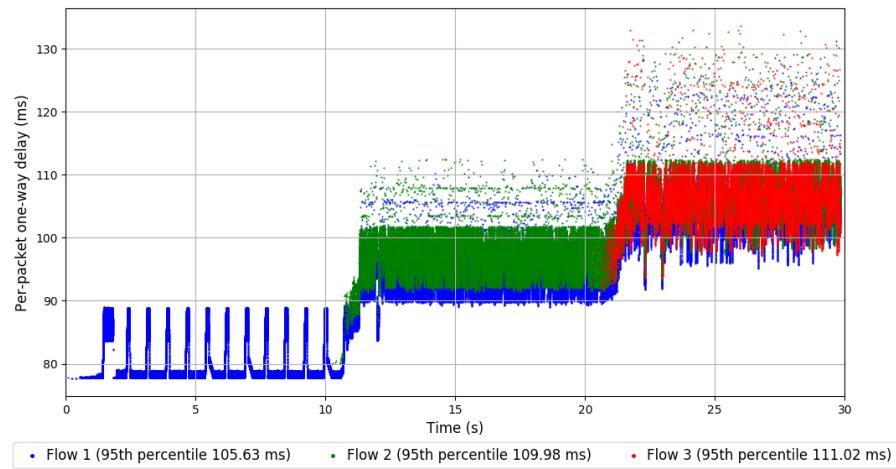
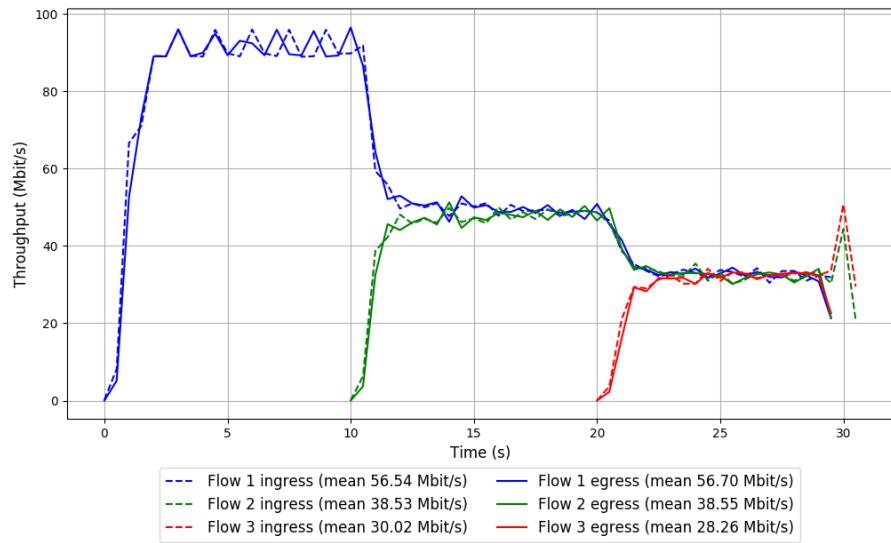


Run 7: Statistics of FillP

```
Start at: 2018-04-17 15:26:01
End at: 2018-04-17 15:26:31
Local clock offset: -5.477 ms
Remote clock offset: 11.638 ms

# Below is generated by plot.py at 2018-04-17 20:51:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.49 Mbit/s
95th percentile per-packet one-way delay: 108.782 ms
Loss rate: 3.49%
-- Flow 1:
Average throughput: 56.70 Mbit/s
95th percentile per-packet one-way delay: 105.633 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 38.55 Mbit/s
95th percentile per-packet one-way delay: 109.977 ms
Loss rate: 5.04%
-- Flow 3:
Average throughput: 28.26 Mbit/s
95th percentile per-packet one-way delay: 111.023 ms
Loss rate: 15.17%
```

Run 7: Report of FillP — Data Link

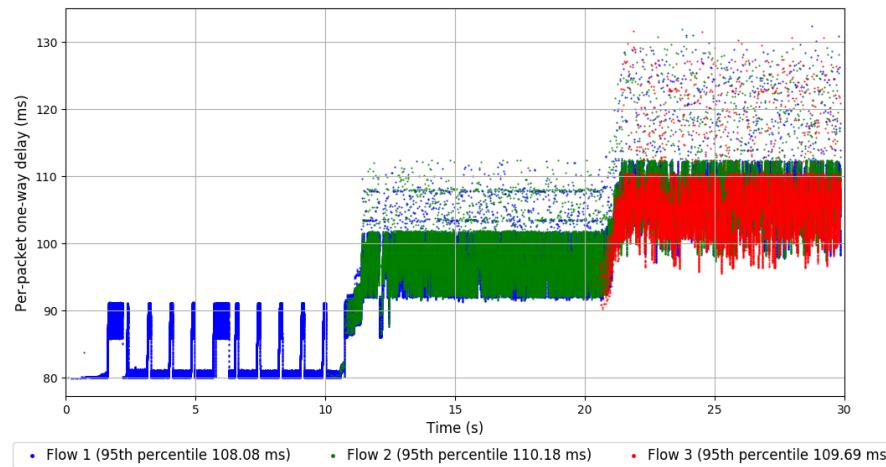
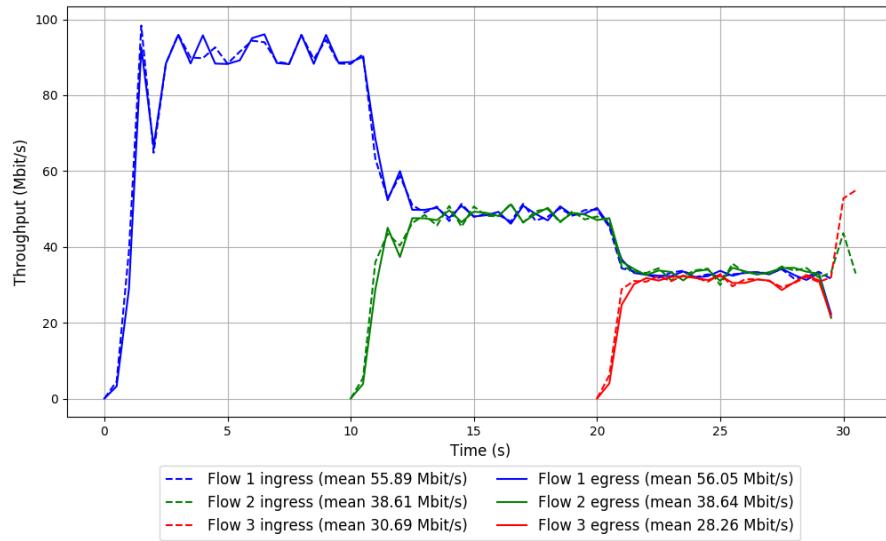


Run 8: Statistics of FillP

```
Start at: 2018-04-17 15:48:17
End at: 2018-04-17 15:48:47
Local clock offset: -4.78 ms
Remote clock offset: 11.077 ms

# Below is generated by plot.py at 2018-04-17 20:51:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.92 Mbit/s
95th percentile per-packet one-way delay: 109.220 ms
Loss rate: 4.17%
-- Flow 1:
Average throughput: 56.05 Mbit/s
95th percentile per-packet one-way delay: 108.083 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 38.64 Mbit/s
95th percentile per-packet one-way delay: 110.177 ms
Loss rate: 5.87%
-- Flow 3:
Average throughput: 28.26 Mbit/s
95th percentile per-packet one-way delay: 109.695 ms
Loss rate: 18.42%
```

Run 8: Report of FillP — Data Link

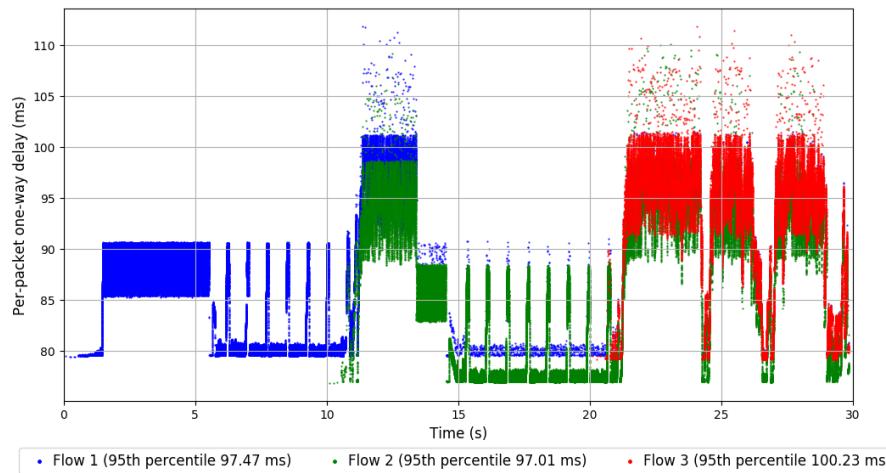
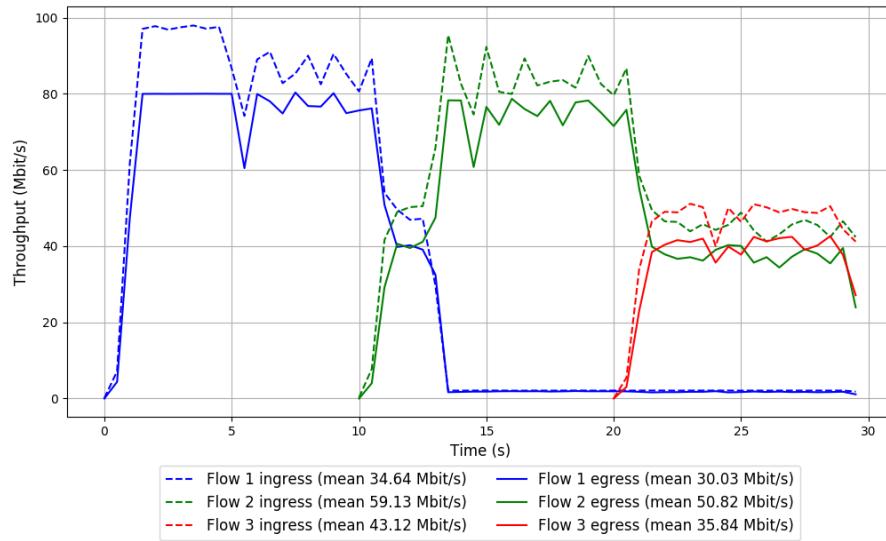


Run 9: Statistics of FillP

```
Start at: 2018-04-17 16:10:37
End at: 2018-04-17 16:11:07
Local clock offset: -5.591 ms
Remote clock offset: 10.138 ms

# Below is generated by plot.py at 2018-04-17 20:51:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.47 Mbit/s
95th percentile per-packet one-way delay: 98.260 ms
Loss rate: 15.01%
-- Flow 1:
Average throughput: 30.03 Mbit/s
95th percentile per-packet one-way delay: 97.470 ms
Loss rate: 13.86%
-- Flow 2:
Average throughput: 50.82 Mbit/s
95th percentile per-packet one-way delay: 97.012 ms
Loss rate: 14.80%
-- Flow 3:
Average throughput: 35.84 Mbit/s
95th percentile per-packet one-way delay: 100.227 ms
Loss rate: 18.41%
```

Run 9: Report of FillP — Data Link

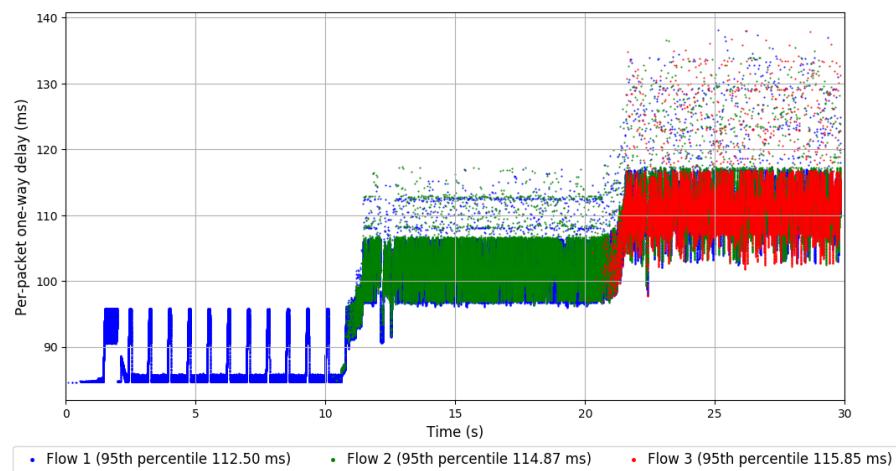
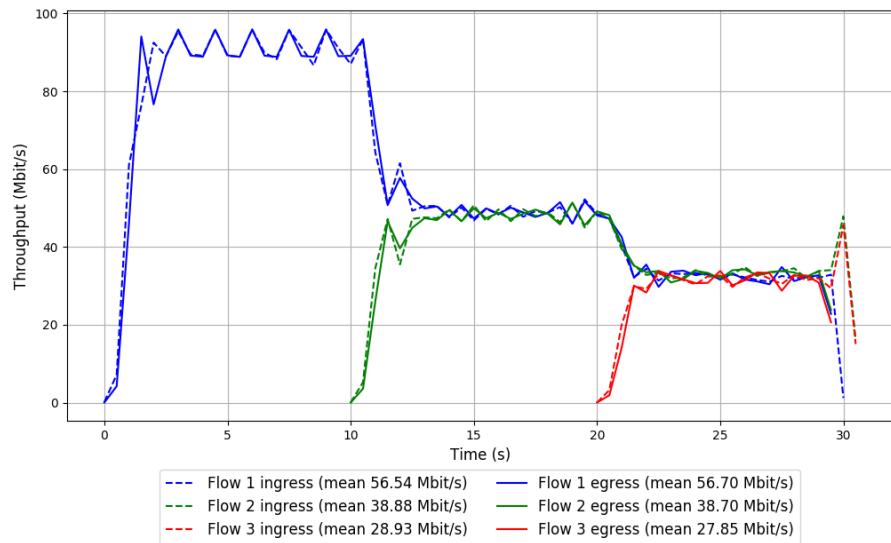


Run 10: Statistics of FillP

```
Start at: 2018-04-17 16:33:05
End at: 2018-04-17 16:33:35
Local clock offset: -3.259 ms
Remote clock offset: 4.794 ms

# Below is generated by plot.py at 2018-04-17 20:51:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.47 Mbit/s
95th percentile per-packet one-way delay: 114.189 ms
Loss rate: 3.15%
-- Flow 1:
Average throughput: 56.70 Mbit/s
95th percentile per-packet one-way delay: 112.504 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 38.70 Mbit/s
95th percentile per-packet one-way delay: 114.871 ms
Loss rate: 5.09%
-- Flow 3:
Average throughput: 27.85 Mbit/s
95th percentile per-packet one-way delay: 115.852 ms
Loss rate: 12.45%
```

Run 10: Report of FillP — Data Link

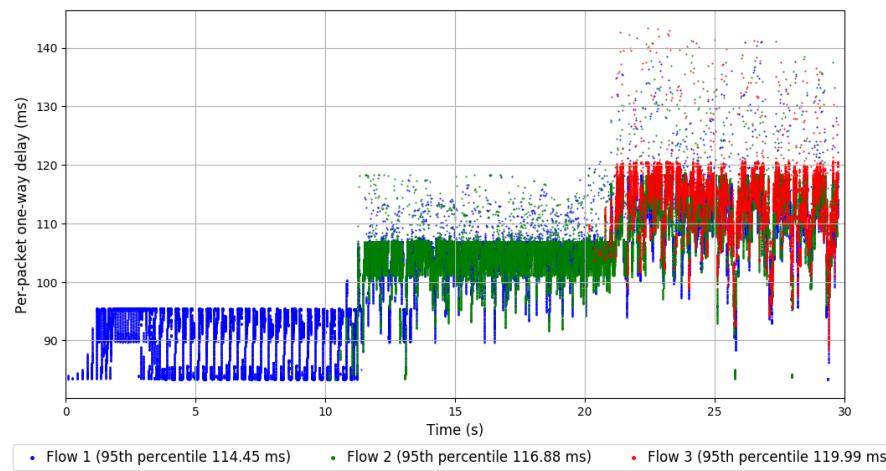
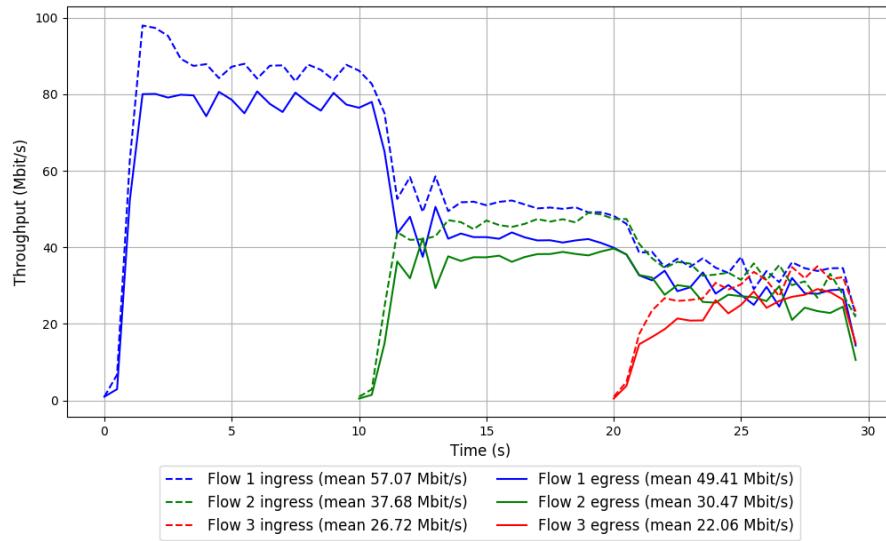


Run 1: Statistics of Indigo-1-32

```
Start at: 2018-04-17 13:24:07
End at: 2018-04-17 13:24:37
Local clock offset: -4.331 ms
Remote clock offset: 6.224 ms

# Below is generated by plot.py at 2018-04-17 20:51:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.66 Mbit/s
95th percentile per-packet one-way delay: 116.750 ms
Loss rate: 16.11%
-- Flow 1:
Average throughput: 49.41 Mbit/s
95th percentile per-packet one-way delay: 114.452 ms
Loss rate: 13.96%
-- Flow 2:
Average throughput: 30.47 Mbit/s
95th percentile per-packet one-way delay: 116.877 ms
Loss rate: 19.96%
-- Flow 3:
Average throughput: 22.06 Mbit/s
95th percentile per-packet one-way delay: 119.994 ms
Loss rate: 19.16%
```

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

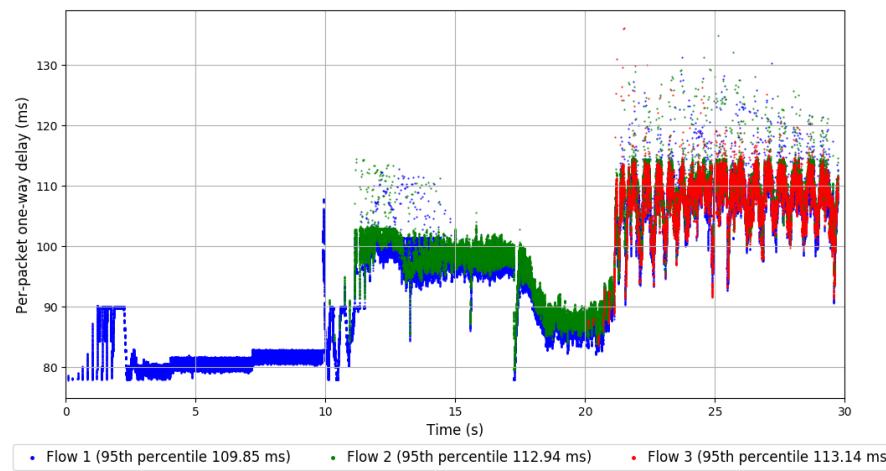
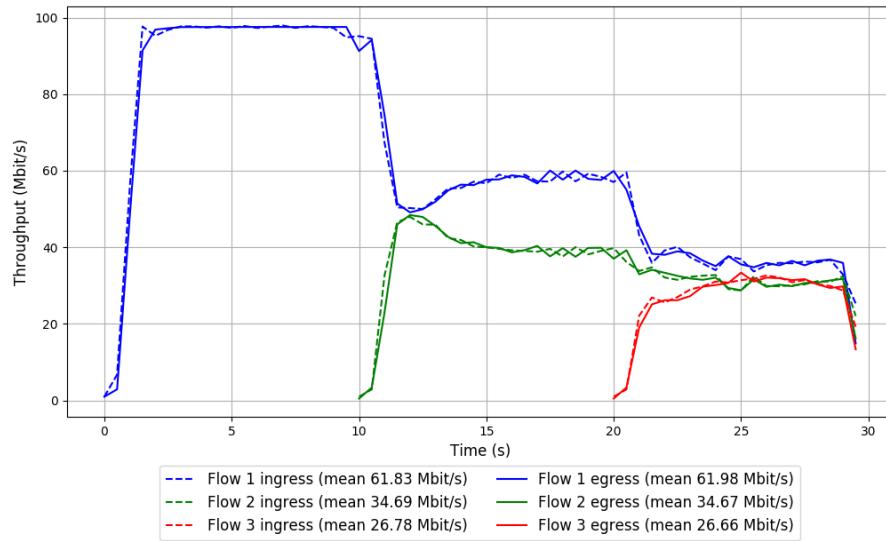


Run 2: Statistics of Indigo-1-32

```
Start at: 2018-04-17 13:46:26
End at: 2018-04-17 13:46:56
Local clock offset: -2.629 ms
Remote clock offset: 11.784 ms

# Below is generated by plot.py at 2018-04-17 20:52:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.49 Mbit/s
95th percentile per-packet one-way delay: 111.747 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 61.98 Mbit/s
95th percentile per-packet one-way delay: 109.854 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 34.67 Mbit/s
95th percentile per-packet one-way delay: 112.935 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 26.66 Mbit/s
95th percentile per-packet one-way delay: 113.135 ms
Loss rate: 2.30%
```

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

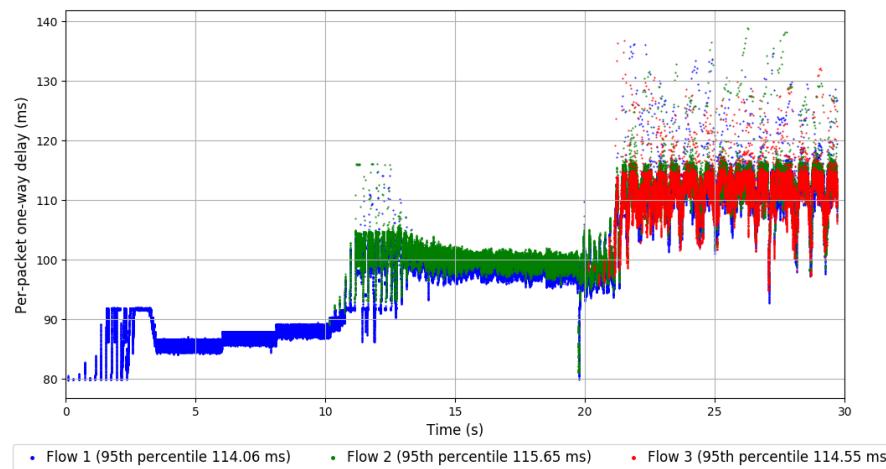
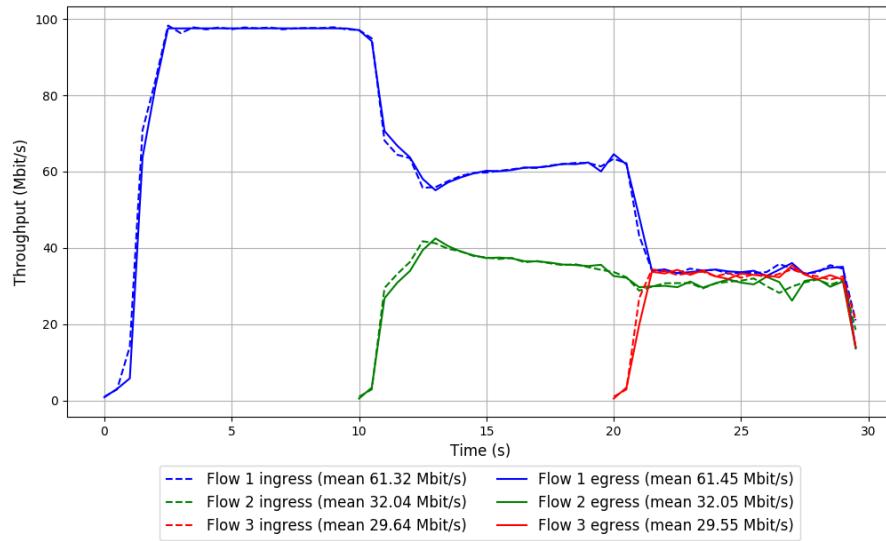


Run 3: Statistics of Indigo-1-32

```
Start at: 2018-04-17 14:08:42
End at: 2018-04-17 14:09:12
Local clock offset: -3.982 ms
Remote clock offset: 10.289 ms

# Below is generated by plot.py at 2018-04-17 20:52:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.14 Mbit/s
95th percentile per-packet one-way delay: 114.569 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 61.45 Mbit/s
95th percentile per-packet one-way delay: 114.060 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 32.05 Mbit/s
95th percentile per-packet one-way delay: 115.648 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 29.55 Mbit/s
95th percentile per-packet one-way delay: 114.553 ms
Loss rate: 2.47%
```

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

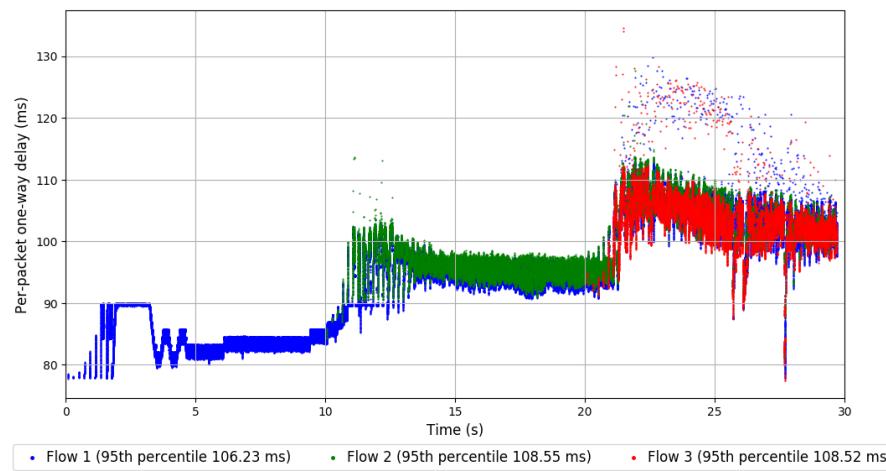
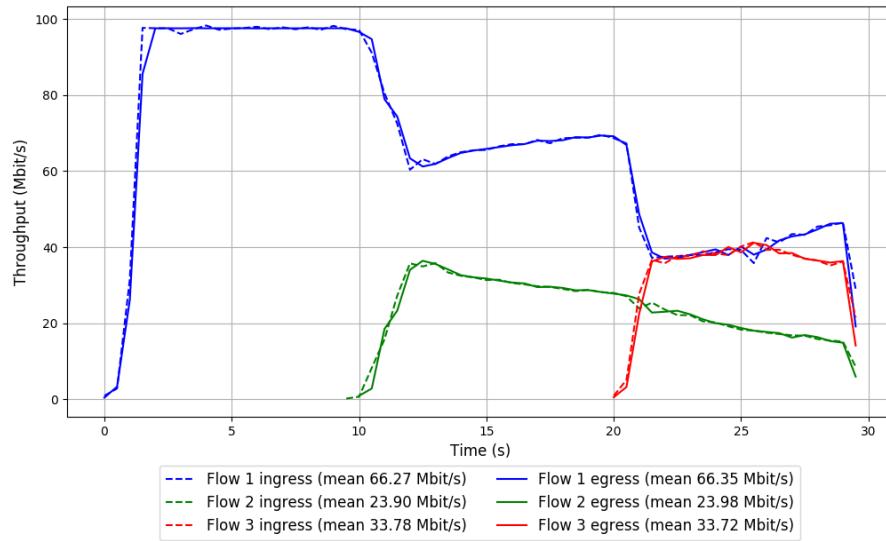


Run 4: Statistics of Indigo-1-32

```
Start at: 2018-04-17 14:30:53
End at: 2018-04-17 14:31:23
Local clock offset: -5.961 ms
Remote clock offset: 11.664 ms

# Below is generated by plot.py at 2018-04-17 20:52:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.15 Mbit/s
95th percentile per-packet one-way delay: 107.202 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 66.35 Mbit/s
95th percentile per-packet one-way delay: 106.234 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 23.98 Mbit/s
95th percentile per-packet one-way delay: 108.547 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 33.72 Mbit/s
95th percentile per-packet one-way delay: 108.523 ms
Loss rate: 2.16%
```

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

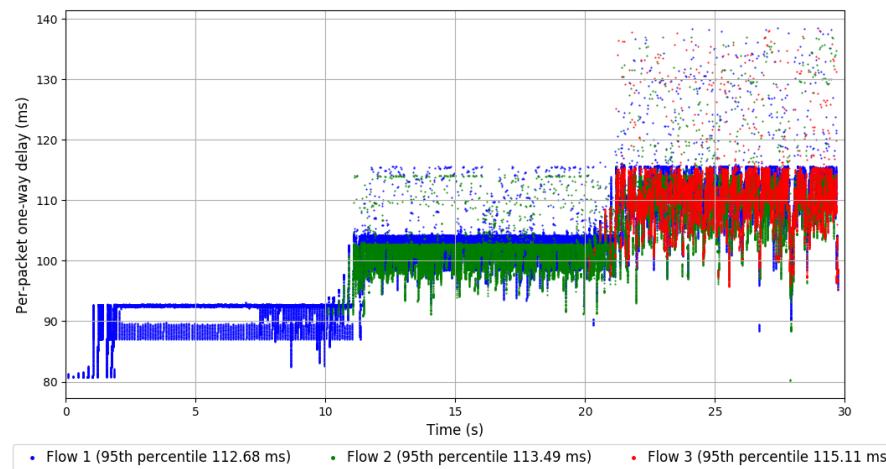
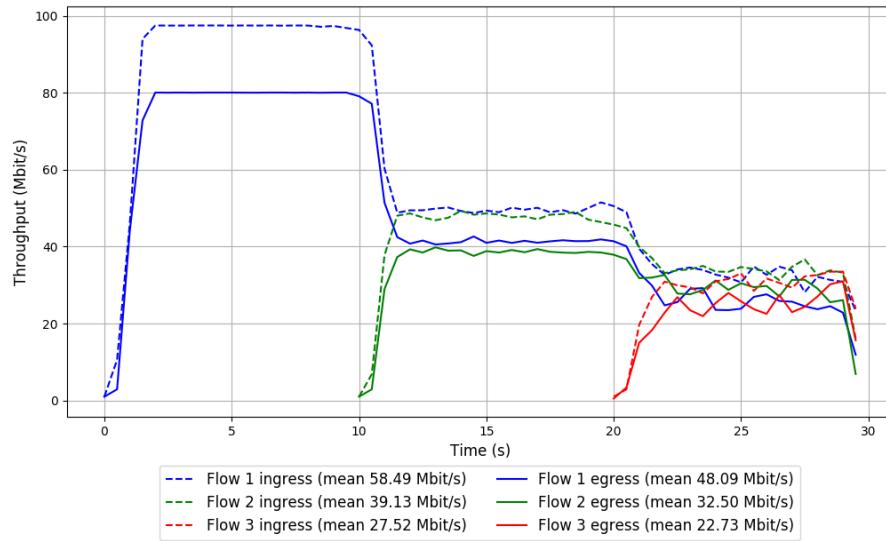


Run 5: Statistics of Indigo-1-32

```
Start at: 2018-04-17 14:53:11
End at: 2018-04-17 14:53:41
Local clock offset: -4.652 ms
Remote clock offset: 10.203 ms

# Below is generated by plot.py at 2018-04-17 20:52:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.89 Mbit/s
95th percentile per-packet one-way delay: 113.663 ms
Loss rate: 18.32%
-- Flow 1:
Average throughput: 48.09 Mbit/s
95th percentile per-packet one-way delay: 112.682 ms
Loss rate: 18.30%
-- Flow 2:
Average throughput: 32.50 Mbit/s
95th percentile per-packet one-way delay: 113.489 ms
Loss rate: 18.03%
-- Flow 3:
Average throughput: 22.73 Mbit/s
95th percentile per-packet one-way delay: 115.113 ms
Loss rate: 19.25%
```

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

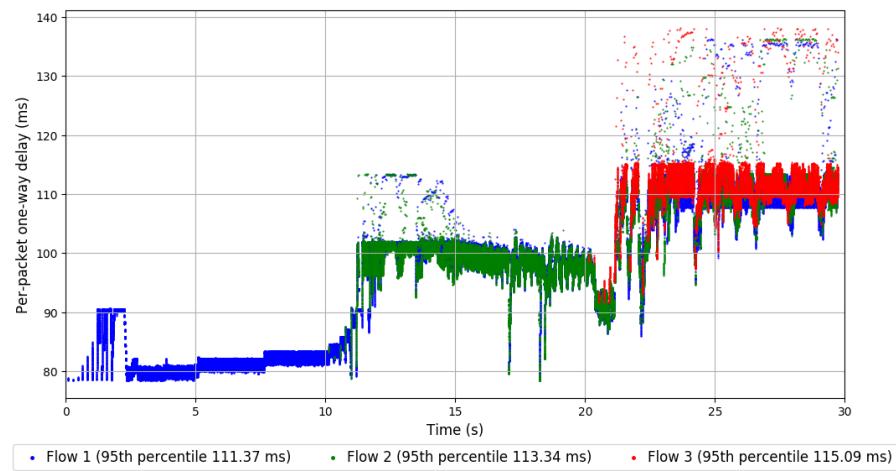
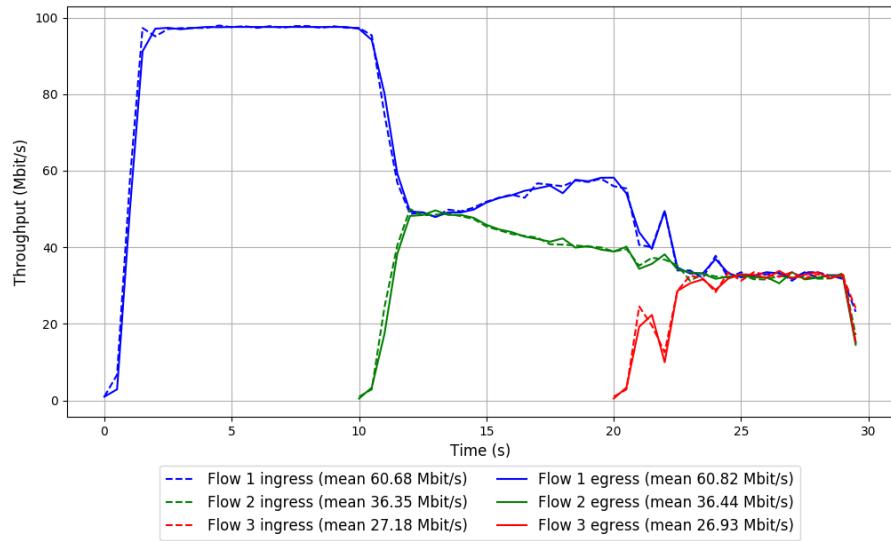


Run 6: Statistics of Indigo-1-32

```
Start at: 2018-04-17 15:15:35
End at: 2018-04-17 15:16:05
Local clock offset: -5.474 ms
Remote clock offset: 11.245 ms

# Below is generated by plot.py at 2018-04-17 20:53:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.60 Mbit/s
95th percentile per-packet one-way delay: 113.283 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 60.82 Mbit/s
95th percentile per-packet one-way delay: 111.369 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 36.44 Mbit/s
95th percentile per-packet one-way delay: 113.337 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 26.93 Mbit/s
95th percentile per-packet one-way delay: 115.087 ms
Loss rate: 2.91%
```

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

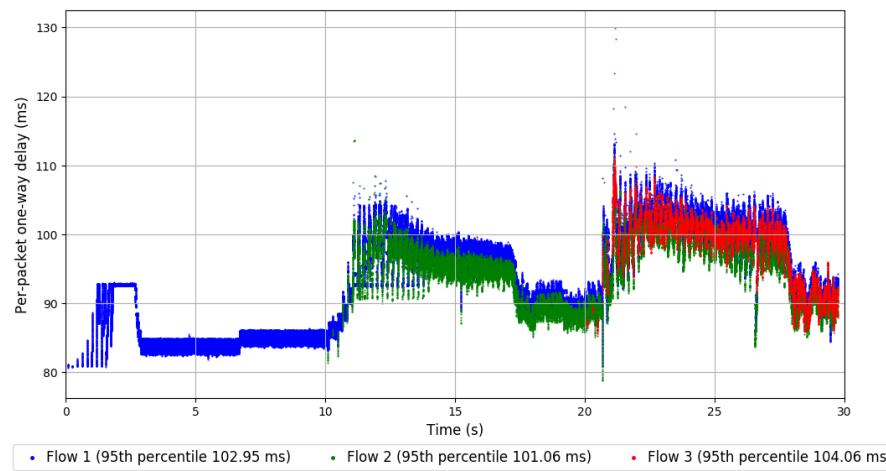
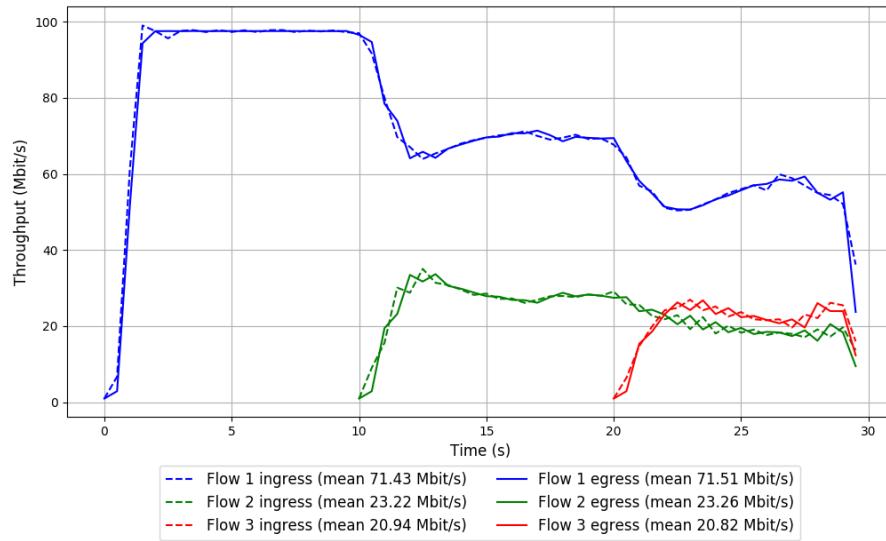


Run 7: Statistics of Indigo-1-32

```
Start at: 2018-04-17 15:37:54
End at: 2018-04-17 15:38:24
Local clock offset: -5.572 ms
Remote clock offset: 10.819 ms

# Below is generated by plot.py at 2018-04-17 20:53:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.67 Mbit/s
95th percentile per-packet one-way delay: 102.856 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 71.51 Mbit/s
95th percentile per-packet one-way delay: 102.955 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 23.26 Mbit/s
95th percentile per-packet one-way delay: 101.060 ms
Loss rate: 0.78%
-- Flow 3:
Average throughput: 20.82 Mbit/s
95th percentile per-packet one-way delay: 104.063 ms
Loss rate: 2.42%
```

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

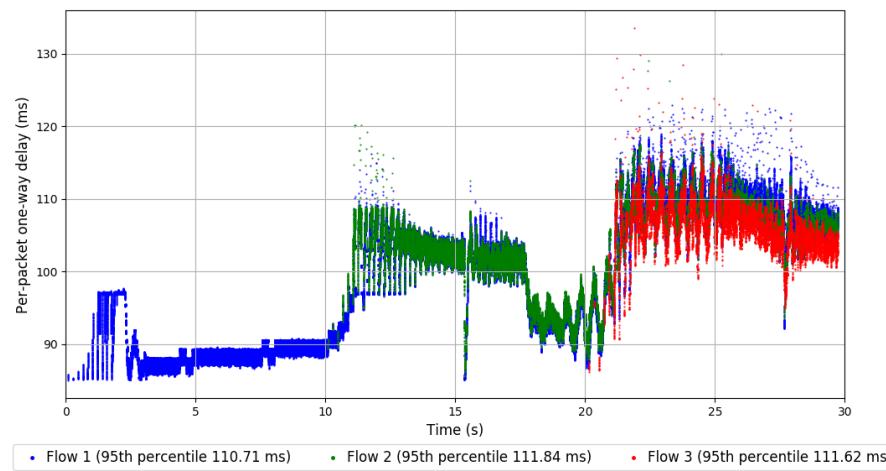
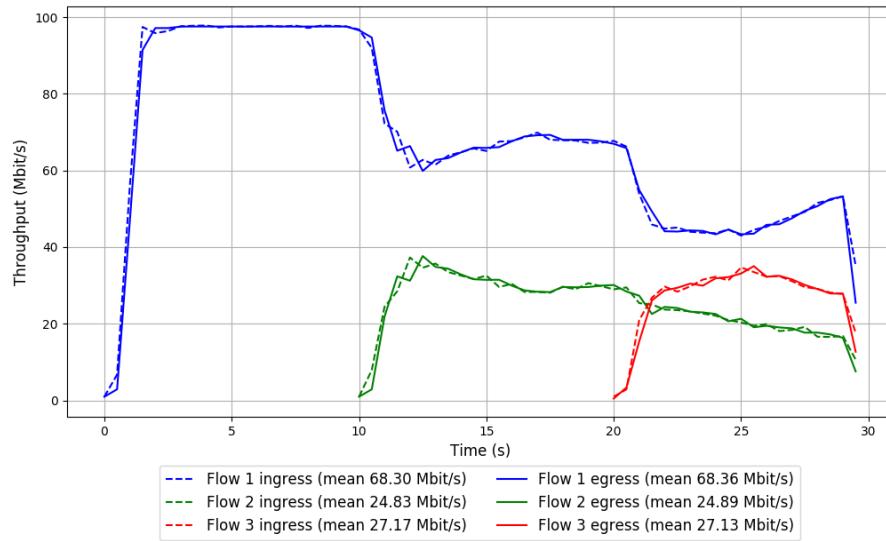


Run 8: Statistics of Indigo-1-32

```
Start at: 2018-04-17 16:00:13
End at: 2018-04-17 16:00:43
Local clock offset: -5.558 ms
Remote clock offset: 4.767 ms

# Below is generated by plot.py at 2018-04-17 20:53:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.61 Mbit/s
95th percentile per-packet one-way delay: 111.128 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 68.36 Mbit/s
95th percentile per-packet one-way delay: 110.706 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 24.89 Mbit/s
95th percentile per-packet one-way delay: 111.842 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 27.13 Mbit/s
95th percentile per-packet one-way delay: 111.616 ms
Loss rate: 2.04%
```

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

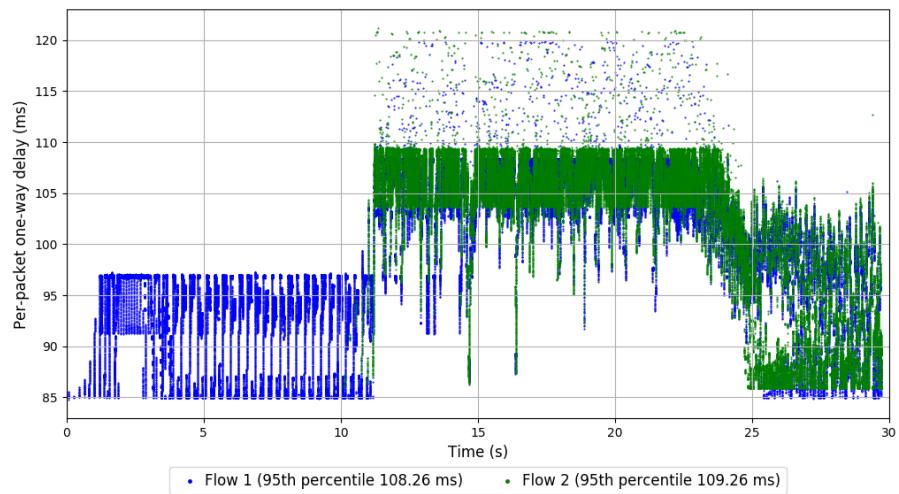
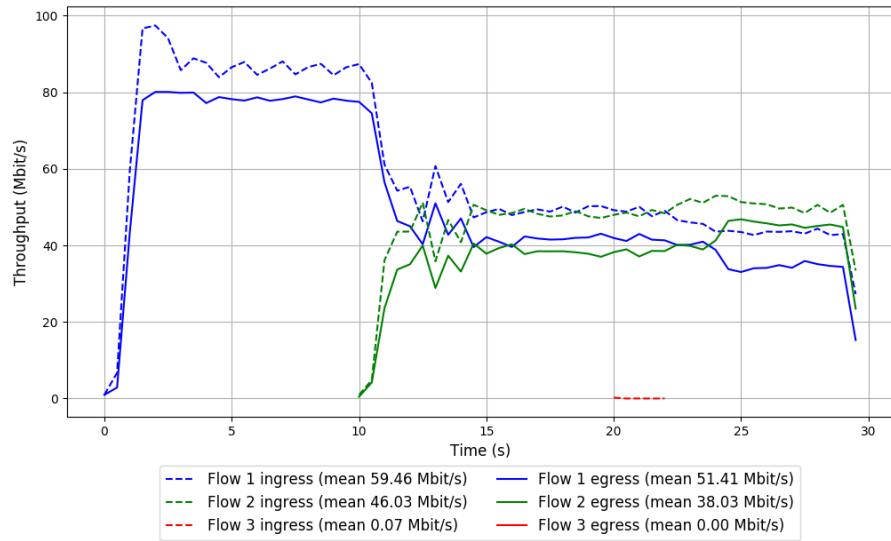


Run 9: Statistics of Indigo-1-32

```
Start at: 2018-04-17 16:22:39
End at: 2018-04-17 16:23:09
Local clock offset: -3.19 ms
Remote clock offset: 4.821 ms

# Below is generated by plot.py at 2018-04-17 20:53:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.56 Mbit/s
95th percentile per-packet one-way delay: 108.685 ms
Loss rate: 15.46%
-- Flow 1:
Average throughput: 51.41 Mbit/s
95th percentile per-packet one-way delay: 108.261 ms
Loss rate: 14.06%
-- Flow 2:
Average throughput: 38.03 Mbit/s
95th percentile per-packet one-way delay: 109.258 ms
Loss rate: 18.16%
-- Flow 3:
Average throughput: 0.00 Mbit/s
```

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

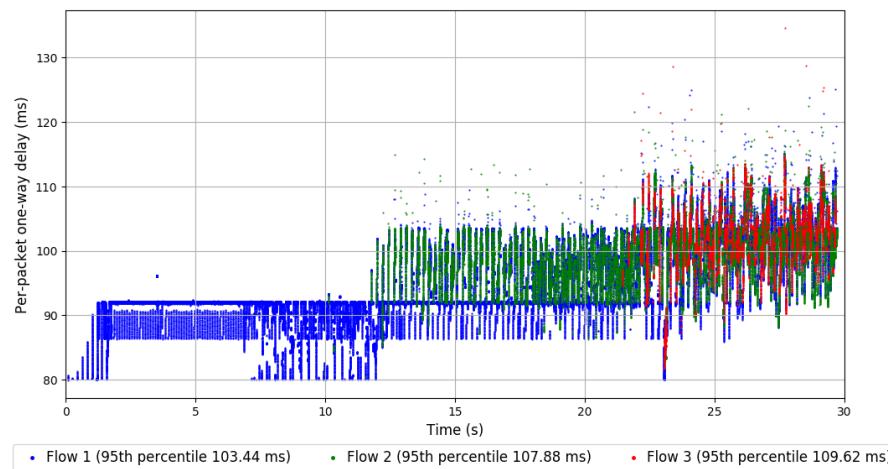
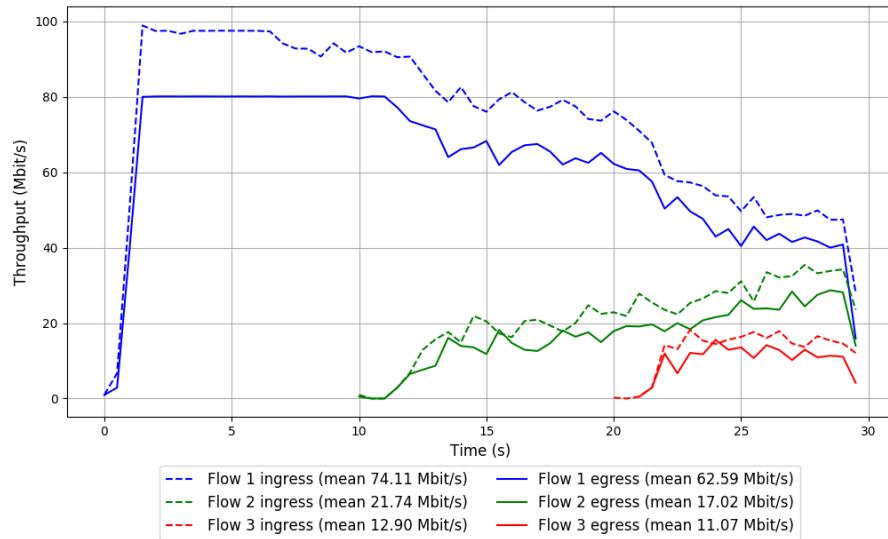


Run 10: Statistics of Indigo-1-32

```
Start at: 2018-04-17 16:45:01
End at: 2018-04-17 16:45:31
Local clock offset: -2.727 ms
Remote clock offset: 9.445 ms

# Below is generated by plot.py at 2018-04-17 20:53:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.98 Mbit/s
95th percentile per-packet one-way delay: 105.041 ms
Loss rate: 17.54%
-- Flow 1:
Average throughput: 62.59 Mbit/s
95th percentile per-packet one-way delay: 103.439 ms
Loss rate: 16.13%
-- Flow 2:
Average throughput: 17.02 Mbit/s
95th percentile per-packet one-way delay: 107.879 ms
Loss rate: 22.56%
-- Flow 3:
Average throughput: 11.07 Mbit/s
95th percentile per-packet one-way delay: 109.624 ms
Loss rate: 25.24%
```

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

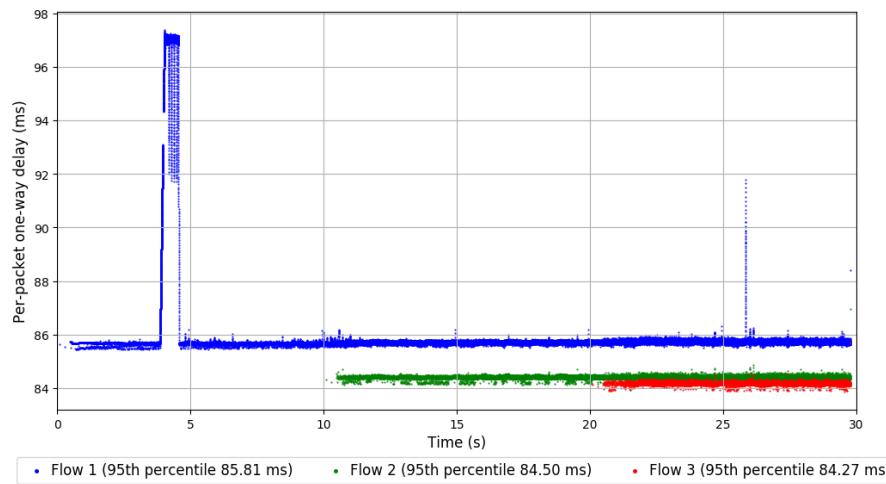
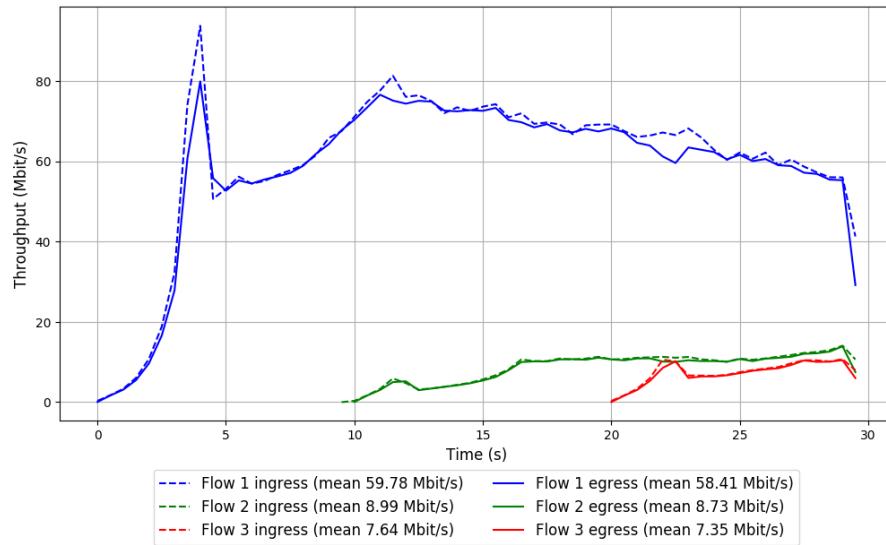


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2018-04-17 13:07:55
End at: 2018-04-17 13:08:25
Local clock offset: -5.742 ms
Remote clock offset: 5.059 ms

# Below is generated by plot.py at 2018-04-17 20:53:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.59 Mbit/s
95th percentile per-packet one-way delay: 85.796 ms
Loss rate: 3.06%
-- Flow 1:
Average throughput: 58.41 Mbit/s
95th percentile per-packet one-way delay: 85.809 ms
Loss rate: 2.88%
-- Flow 2:
Average throughput: 8.73 Mbit/s
95th percentile per-packet one-way delay: 84.500 ms
Loss rate: 3.82%
-- Flow 3:
Average throughput: 7.35 Mbit/s
95th percentile per-packet one-way delay: 84.274 ms
Loss rate: 5.57%
```

Run 1: Report of PCC-Vivace — Data Link

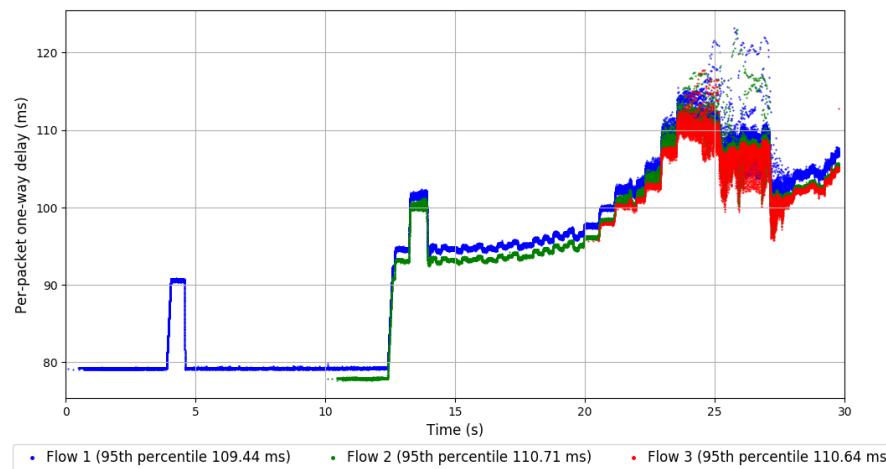
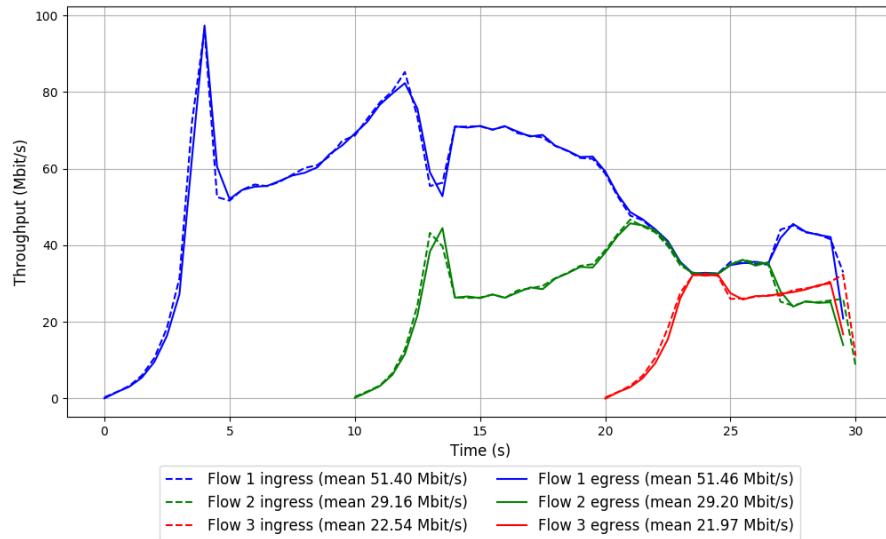


Run 2: Statistics of PCC-Vivace

```
Start at: 2018-04-17 13:30:37
End at: 2018-04-17 13:31:07
Local clock offset: -4.299 ms
Remote clock offset: 11.372 ms

# Below is generated by plot.py at 2018-04-17 20:53:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.95 Mbit/s
95th percentile per-packet one-way delay: 110.366 ms
Loss rate: 1.69%
-- Flow 1:
Average throughput: 51.46 Mbit/s
95th percentile per-packet one-way delay: 109.435 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 29.20 Mbit/s
95th percentile per-packet one-way delay: 110.709 ms
Loss rate: 2.22%
-- Flow 3:
Average throughput: 21.97 Mbit/s
95th percentile per-packet one-way delay: 110.641 ms
Loss rate: 7.21%
```

Run 2: Report of PCC-Vivace — Data Link

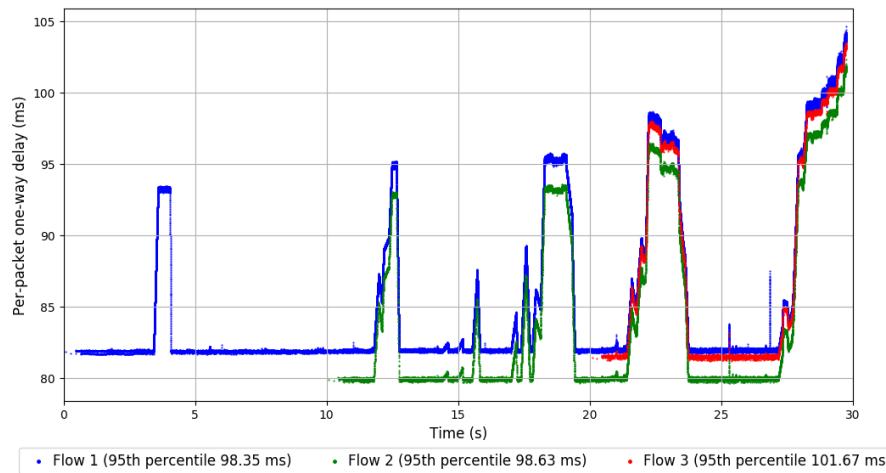
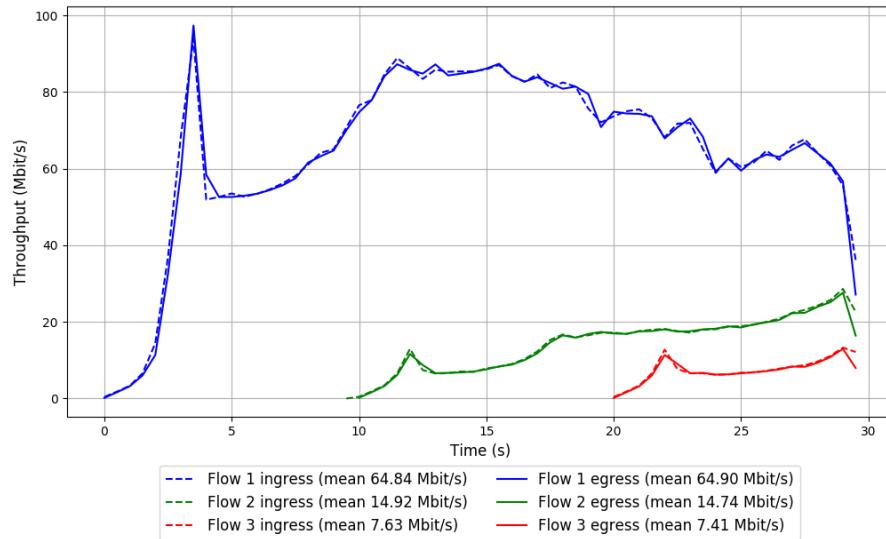


Run 3: Statistics of PCC-Vivace

```
Start at: 2018-04-17 13:52:57
End at: 2018-04-17 13:53:27
Local clock offset: -0.694 ms
Remote clock offset: 11.183 ms

# Below is generated by plot.py at 2018-04-17 20:54:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.08 Mbit/s
95th percentile per-packet one-way delay: 98.719 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 64.90 Mbit/s
95th percentile per-packet one-way delay: 98.354 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 14.74 Mbit/s
95th percentile per-packet one-way delay: 98.631 ms
Loss rate: 2.10%
-- Flow 3:
Average throughput: 7.41 Mbit/s
95th percentile per-packet one-way delay: 101.675 ms
Loss rate: 4.59%
```

Run 3: Report of PCC-Vivace — Data Link

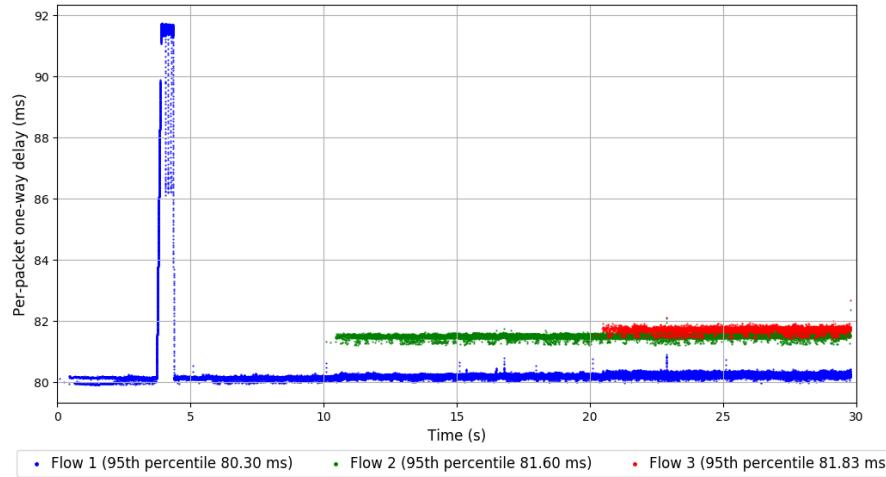
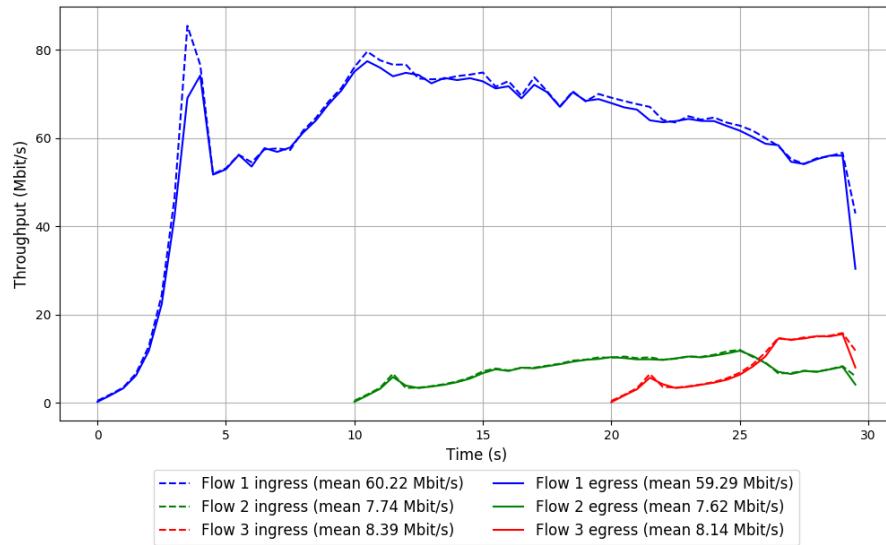


Run 4: Statistics of PCC-Vivace

```
Start at: 2018-04-17 14:15:10
End at: 2018-04-17 14:15:40
Local clock offset: -4.595 ms
Remote clock offset: 10.259 ms

# Below is generated by plot.py at 2018-04-17 20:54:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 67.00 Mbit/s
95th percentile per-packet one-way delay: 81.702 ms
Loss rate: 2.25%
-- Flow 1:
Average throughput: 59.29 Mbit/s
95th percentile per-packet one-way delay: 80.297 ms
Loss rate: 2.12%
-- Flow 2:
Average throughput: 7.62 Mbit/s
95th percentile per-packet one-way delay: 81.603 ms
Loss rate: 2.35%
-- Flow 3:
Average throughput: 8.14 Mbit/s
95th percentile per-packet one-way delay: 81.826 ms
Loss rate: 4.80%
```

Run 4: Report of PCC-Vivace — Data Link

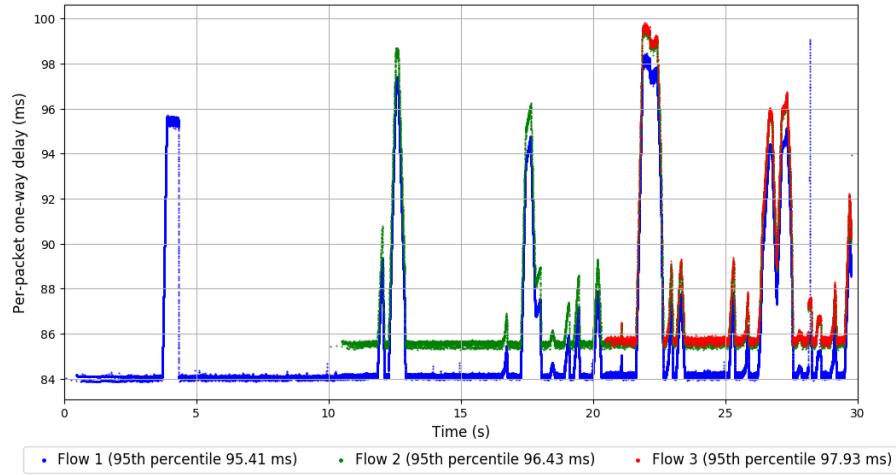
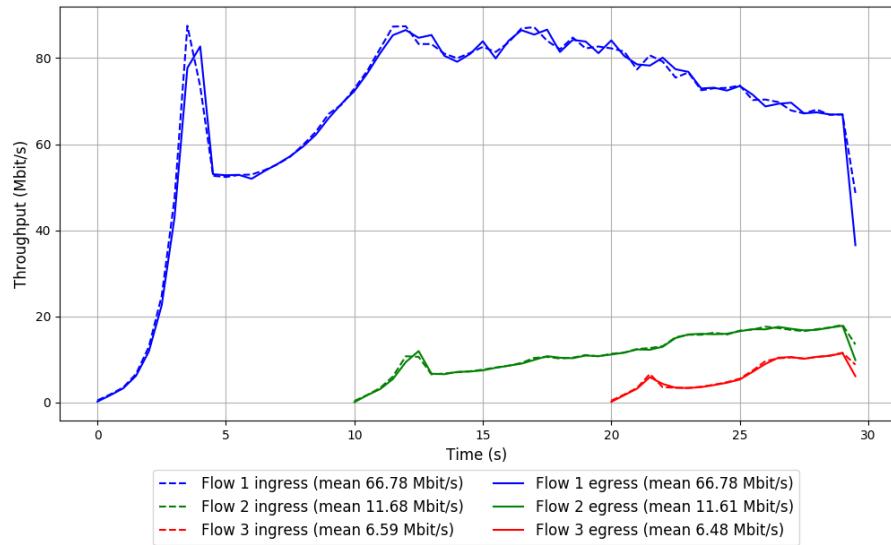


Run 5: Statistics of PCC-Vivace

```
Start at: 2018-04-17 14:37:23
End at: 2018-04-17 14:37:53
Local clock offset: -5.625 ms
Remote clock offset: 4.911 ms

# Below is generated by plot.py at 2018-04-17 20:54:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.57 Mbit/s
95th percentile per-packet one-way delay: 95.478 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 66.78 Mbit/s
95th percentile per-packet one-way delay: 95.405 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 11.61 Mbit/s
95th percentile per-packet one-way delay: 96.430 ms
Loss rate: 1.45%
-- Flow 3:
Average throughput: 6.48 Mbit/s
95th percentile per-packet one-way delay: 97.928 ms
Loss rate: 3.57%
```

Run 5: Report of PCC-Vivace — Data Link

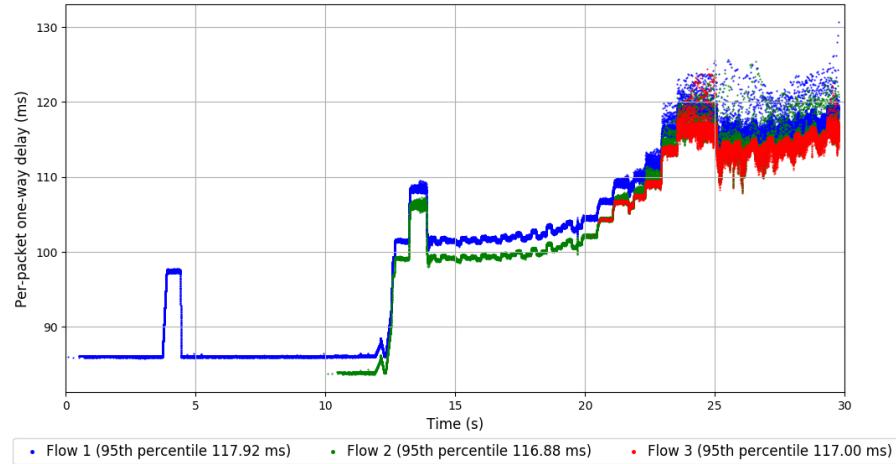
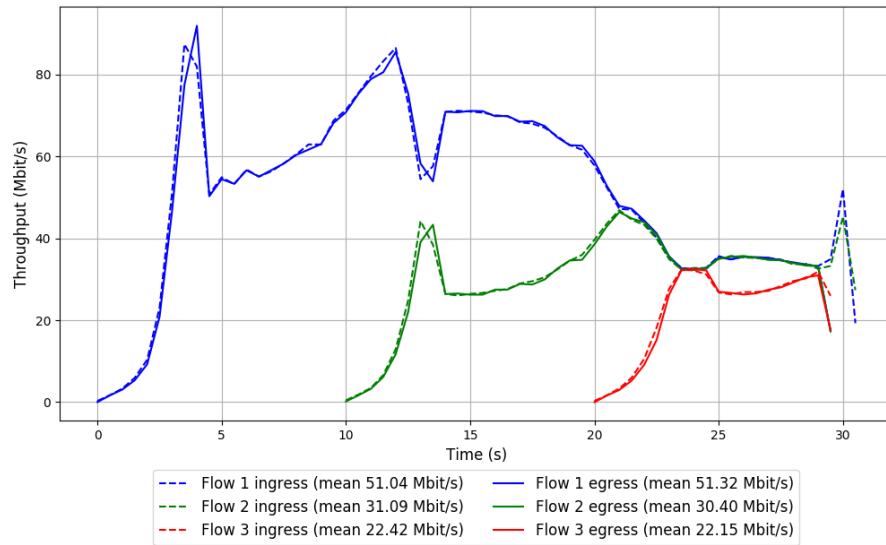


Run 6: Statistics of PCC-Vivace

```
Start at: 2018-04-17 14:59:50
End at: 2018-04-17 15:00:20
Local clock offset: -5.427 ms
Remote clock offset: 4.506 ms

# Below is generated by plot.py at 2018-04-17 20:54:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.68 Mbit/s
95th percentile per-packet one-way delay: 117.281 ms
Loss rate: 4.28%
-- Flow 1:
Average throughput: 51.32 Mbit/s
95th percentile per-packet one-way delay: 117.922 ms
Loss rate: 3.08%
-- Flow 2:
Average throughput: 30.40 Mbit/s
95th percentile per-packet one-way delay: 116.882 ms
Loss rate: 7.43%
-- Flow 3:
Average throughput: 22.15 Mbit/s
95th percentile per-packet one-way delay: 117.004 ms
Loss rate: 3.59%
```

Run 6: Report of PCC-Vivace — Data Link

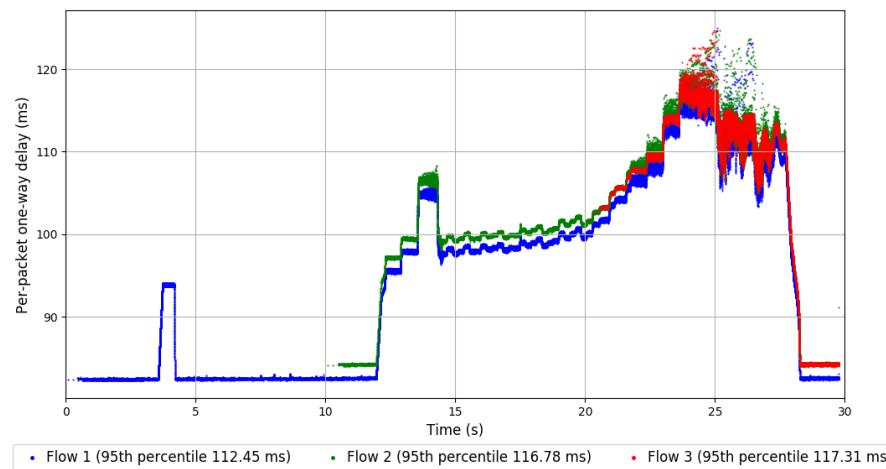
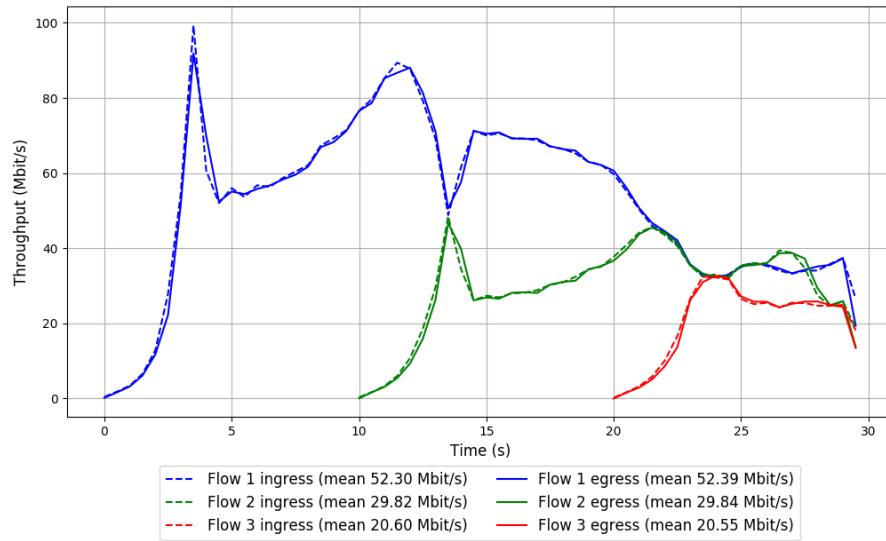


Run 7: Statistics of PCC-Vivace

```
Start at: 2018-04-17 15:22:06
End at: 2018-04-17 15:22:36
Local clock offset: -6.233 ms
Remote clock offset: 6.754 ms

# Below is generated by plot.py at 2018-04-17 20:54:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.84 Mbit/s
95th percentile per-packet one-way delay: 115.404 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 52.39 Mbit/s
95th percentile per-packet one-way delay: 112.450 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 29.84 Mbit/s
95th percentile per-packet one-way delay: 116.779 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 20.55 Mbit/s
95th percentile per-packet one-way delay: 117.310 ms
Loss rate: 2.24%
```

Run 7: Report of PCC-Vivace — Data Link

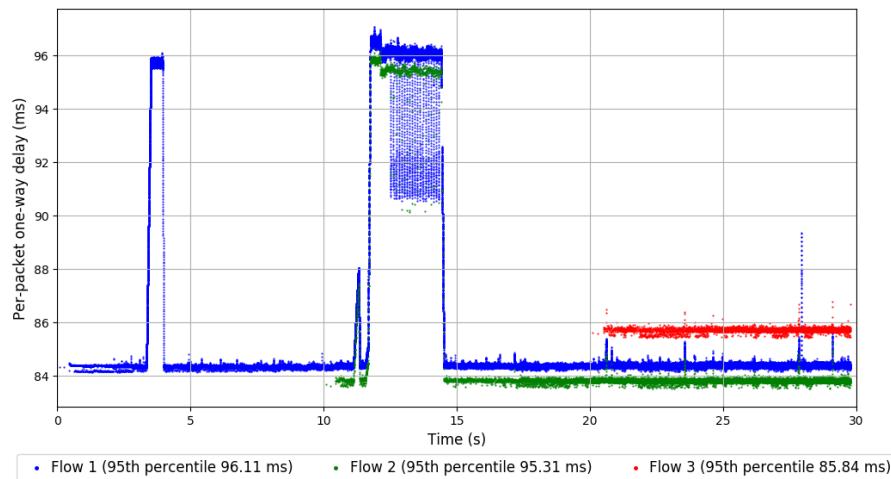
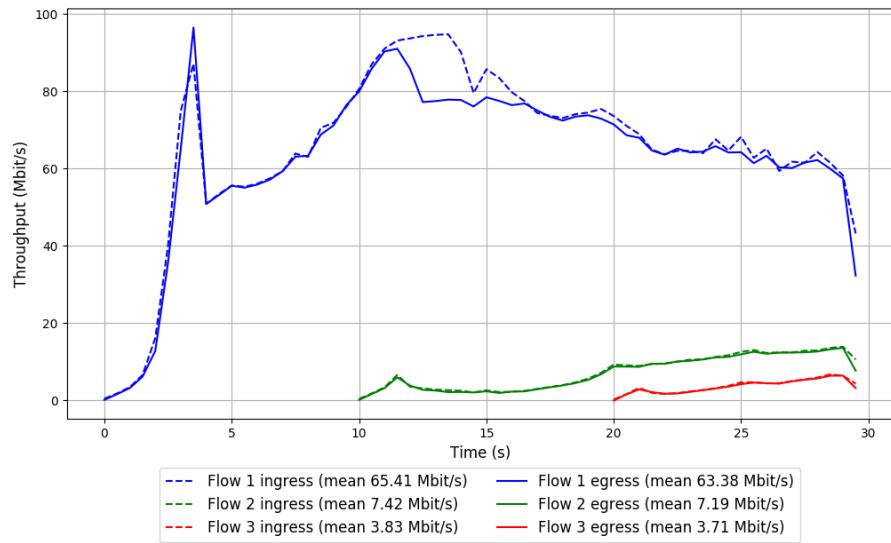


Run 8: Statistics of PCC-Vivace

```
Start at: 2018-04-17 15:44:26
End at: 2018-04-17 15:44:56
Local clock offset: -5.571 ms
Remote clock offset: 4.989 ms

# Below is generated by plot.py at 2018-04-17 20:54:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 69.34 Mbit/s
95th percentile per-packet one-way delay: 96.091 ms
Loss rate: 3.73%
-- Flow 1:
Average throughput: 63.38 Mbit/s
95th percentile per-packet one-way delay: 96.110 ms
Loss rate: 3.69%
-- Flow 2:
Average throughput: 7.19 Mbit/s
95th percentile per-packet one-way delay: 95.306 ms
Loss rate: 3.98%
-- Flow 3:
Average throughput: 3.71 Mbit/s
95th percentile per-packet one-way delay: 85.837 ms
Loss rate: 4.74%
```

Run 8: Report of PCC-Vivace — Data Link

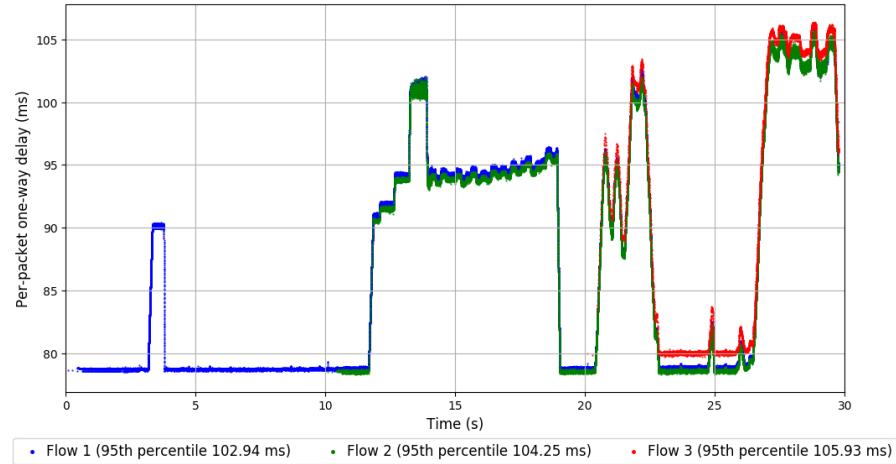
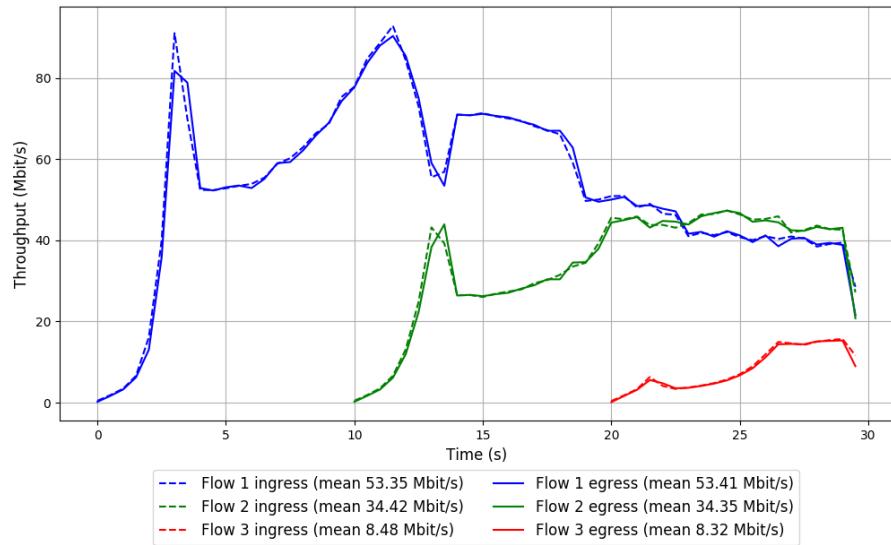


Run 9: Statistics of PCC-Vivace

```
Start at: 2018-04-17 16:06:45
End at: 2018-04-17 16:07:15
Local clock offset: -5.562 ms
Remote clock offset: 9.377 ms

# Below is generated by plot.py at 2018-04-17 20:54:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.89 Mbit/s
95th percentile per-packet one-way delay: 104.059 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 53.41 Mbit/s
95th percentile per-packet one-way delay: 102.945 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 34.35 Mbit/s
95th percentile per-packet one-way delay: 104.252 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 8.32 Mbit/s
95th percentile per-packet one-way delay: 105.930 ms
Loss rate: 3.69%
```

Run 9: Report of PCC-Vivace — Data Link

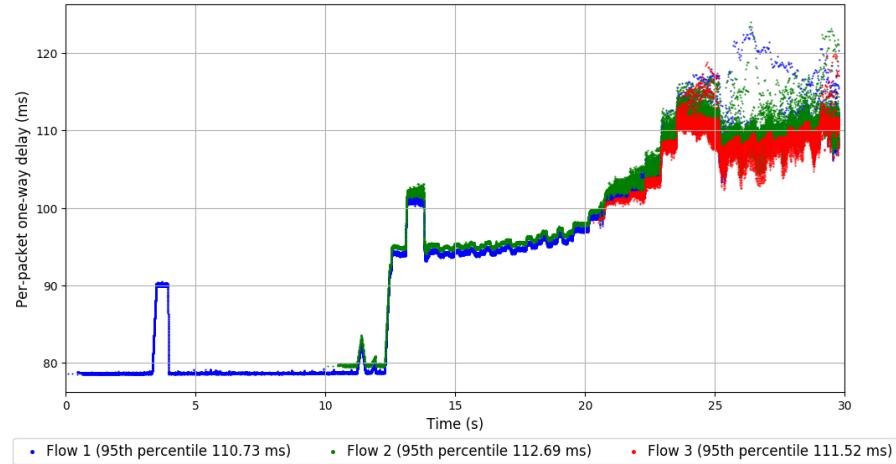
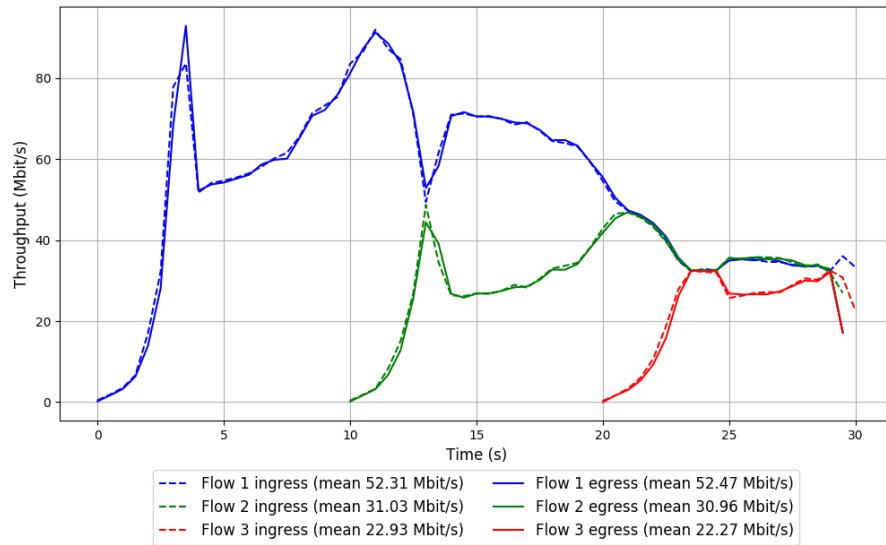


Run 10: Statistics of PCC-Vivace

```
Start at: 2018-04-17 16:29:10
End at: 2018-04-17 16:29:40
Local clock offset: -3.417 ms
Remote clock offset: 9.573 ms

# Below is generated by plot.py at 2018-04-17 20:54:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.23 Mbit/s
95th percentile per-packet one-way delay: 111.635 ms
Loss rate: 2.44%
-- Flow 1:
Average throughput: 52.47 Mbit/s
95th percentile per-packet one-way delay: 110.727 ms
Loss rate: 1.87%
-- Flow 2:
Average throughput: 30.96 Mbit/s
95th percentile per-packet one-way delay: 112.685 ms
Loss rate: 1.33%
-- Flow 3:
Average throughput: 22.27 Mbit/s
95th percentile per-packet one-way delay: 111.515 ms
Loss rate: 9.20%
```

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-04-17 13:10:45

End at: 2018-04-17 13:11:15

Local clock offset: -5.649 ms

Remote clock offset: 5.951 ms

Run 1: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of PCC-Expr

Start at: 2018-04-17 13:33:18

End at: 2018-04-17 13:33:48

Local clock offset: -2.34 ms

Remote clock offset: 6.678 ms

Run 2: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of PCC-Expr

Start at: 2018-04-17 13:55:37

End at: 2018-04-17 13:56:07

Local clock offset: -1.284 ms

Remote clock offset: 6.283 ms

Run 3: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of PCC-Expr

Start at: 2018-04-17 14:17:47
End at: 2018-04-17 14:18:17
Local clock offset: -6.276 ms
Remote clock offset: 11.008 ms

Run 4: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of PCC-Expr

Start at: 2018-04-17 14:40:06

End at: 2018-04-17 14:40:36

Local clock offset: -5.537 ms

Remote clock offset: 9.593 ms

Run 5: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of PCC-Expr

Start at: 2018-04-17 15:02:31

End at: 2018-04-17 15:03:01

Local clock offset: -4.659 ms

Remote clock offset: 5.324 ms

Run 6: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of PCC-Expr

Start at: 2018-04-17 15:24:47

End at: 2018-04-17 15:25:17

Local clock offset: -4.728 ms

Remote clock offset: 6.732 ms

Run 7: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of PCC-Expr

Start at: 2018-04-17 15:47:03

End at: 2018-04-17 15:47:33

Local clock offset: -5.511 ms

Remote clock offset: 4.684 ms

Run 8: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of PCC-Expr

Start at: 2018-04-17 16:09:23

End at: 2018-04-17 16:09:53

Local clock offset: -5.578 ms

Remote clock offset: 9.3 ms

Run 9: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of PCC-Expr

Start at: 2018-04-17 16:31:51

End at: 2018-04-17 16:32:21

Local clock offset: -2.486 ms

Remote clock offset: 4.783 ms

Run 10: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing