

## Pantheon Report

Generated at 2018-01-17 08:04:59 (UTC).

Data path: Mexico Ethernet (*remote*) → AWS California 2 Ethernet (*local*).

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.

Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

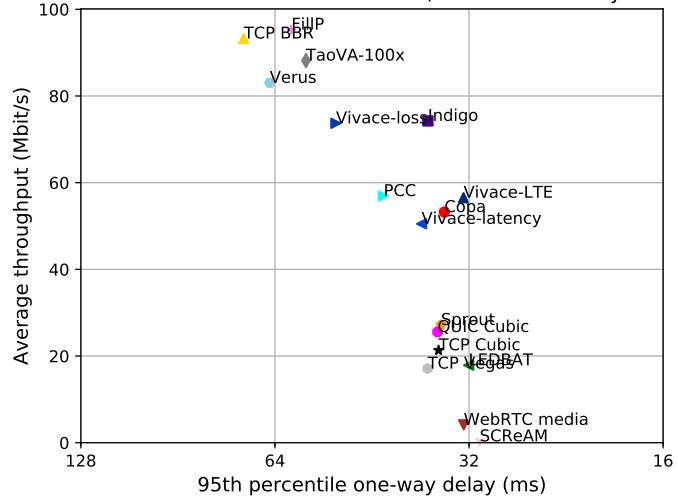
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo\_fast**).

NTP offsets were measured against `time.stanford.edu` and have been applied to correct the timestamps in logs.

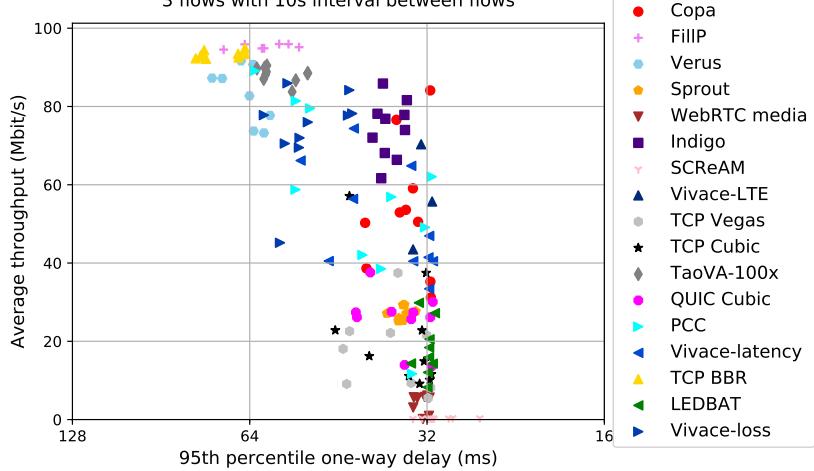
**Git summary:**

```
branch: master @ 386976fcf771de1359acd909bfb98a156d79009
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ ec9585325218d5048c4d4152fa42240af54c6e67
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
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/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 @ 423cbca3e8ea1d599e7b5cf725835e8a2b6bfac6
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from Mexico Ethernet to AWS California 2 Ethernet, 10 runs of 30s each per scheme  
 3 flows with 10s interval between flows (mean of all runs by scheme)



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



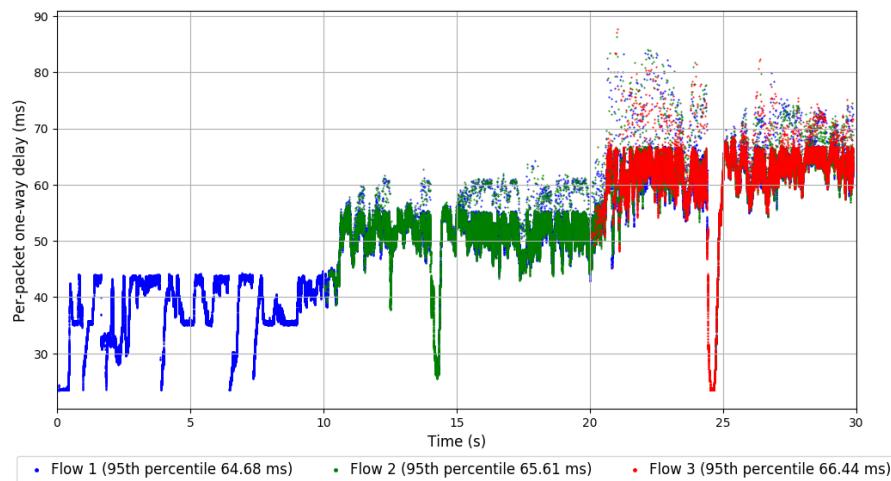
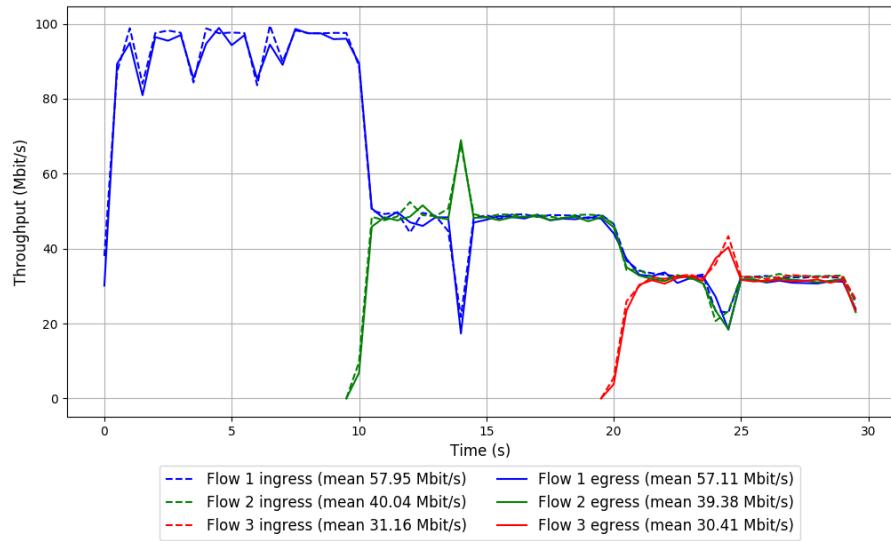
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	56.29	41.99	27.10	68.62	63.32	72.82	1.66	1.89	2.87
TCP Cubic	10	8.12	11.70	16.49	32.71	36.20	38.77	1.10	1.16	1.14
LEDBAT	9	9.65	8.83	7.63	31.96	32.10	32.09	0.84	1.11	1.42
PCC	10	34.80	19.41	27.97	39.47	38.76	45.27	1.34	1.44	1.76
QUIC Cubic	10	6.08	18.75	21.51	35.39	33.73	36.92	0.57	1.17	1.41
SCReAM	10	0.15	0.17	0.20	30.78	30.65	30.45	1.05	1.03	0.90
WebRTC media	8	1.93	1.53	0.92	31.92	32.57	31.66	0.95	1.77	1.73
Sprout	10	13.77	13.61	13.07	34.98	35.54	36.27	1.31	1.32	1.78
TaoVA-100x	10	51.60	41.36	35.29	56.60	57.44	59.48	1.51	1.79	2.49
TCP Vegas	9	10.77	9.06	7.53	919.94	38.83	35.09	0.66	1.16	1.35
Verus	8	48.83	36.85	28.80	62.10	64.73	67.73	1.86	1.89	2.56
Copa	10	32.38	24.92	43.51	35.36	36.51	32.62	1.03	1.20	6.33
FillP	7	60.96	40.02	32.82	54.28	63.56	62.16	1.96	3.62	4.47
Indigo	10	40.88	33.11	34.98	36.81	39.11	37.05	1.48	1.62	2.11
Vivace-latency	10	35.07	19.72	7.01	36.54	37.93	35.70	1.11	1.33	2.02
Vivace-loss	10	52.51	24.66	14.48	49.75	48.80	50.84	1.42	1.80	2.37
Vivace-LTE	3	48.83	35.27	11.16	1222.31	33.03	33.31	0.93	1.71	2.44

Run 1: Statistics of TCP BBR

```
Start at: 2018-01-16 23:02:45
End at: 2018-01-16 23:03:15
Local clock offset: 0.68 ms
Remote clock offset: -3.547 ms

# Below is generated by plot.py at 2018-01-17 07:46:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.40 Mbit/s
95th percentile per-packet one-way delay: 65.558 ms
Loss rate: 1.98%
-- Flow 1:
Average throughput: 57.11 Mbit/s
95th percentile per-packet one-way delay: 64.677 ms
Loss rate: 1.67%
-- Flow 2:
Average throughput: 39.38 Mbit/s
95th percentile per-packet one-way delay: 65.606 ms
Loss rate: 2.11%
-- Flow 3:
Average throughput: 30.41 Mbit/s
95th percentile per-packet one-way delay: 66.443 ms
Loss rate: 3.37%
```

## Run 1: Report of TCP BBR — Data Link

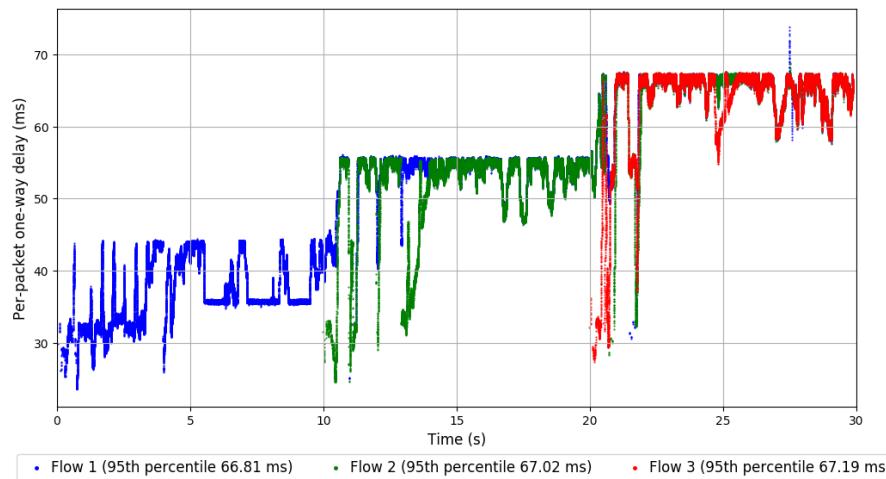
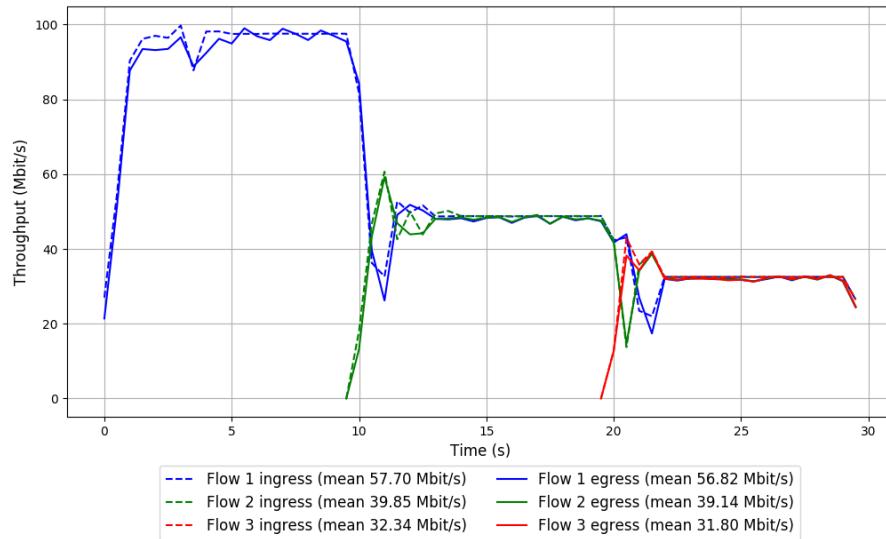


Run 2: Statistics of TCP BBR

```
Start at: 2018-01-16 23:28:57
End at: 2018-01-16 23:29:27
Local clock offset: 0.899 ms
Remote clock offset: -2.655 ms

# Below is generated by plot.py at 2018-01-17 07:46:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.46 Mbit/s
95th percentile per-packet one-way delay: 66.990 ms
Loss rate: 1.95%
-- Flow 1:
Average throughput: 56.82 Mbit/s
95th percentile per-packet one-way delay: 66.810 ms
Loss rate: 1.78%
-- Flow 2:
Average throughput: 39.14 Mbit/s
95th percentile per-packet one-way delay: 67.024 ms
Loss rate: 2.10%
-- Flow 3:
Average throughput: 31.80 Mbit/s
95th percentile per-packet one-way delay: 67.190 ms
Loss rate: 2.45%
```

## Run 2: Report of TCP BBR — Data Link

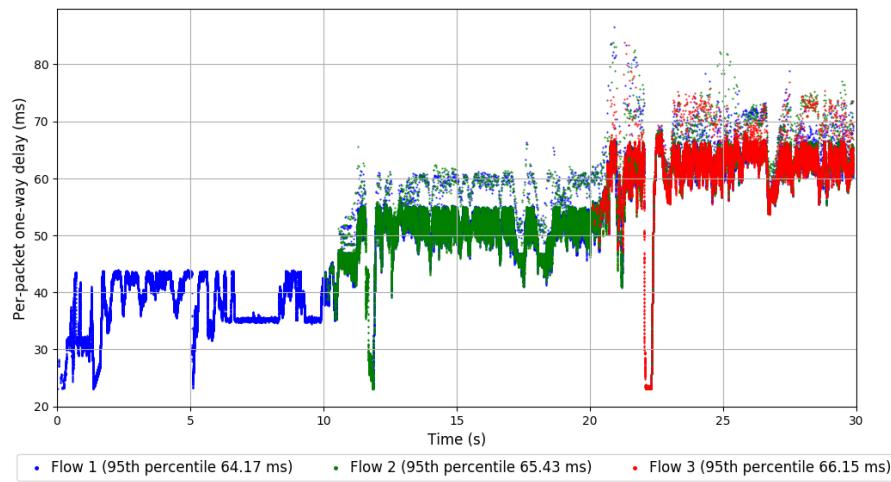
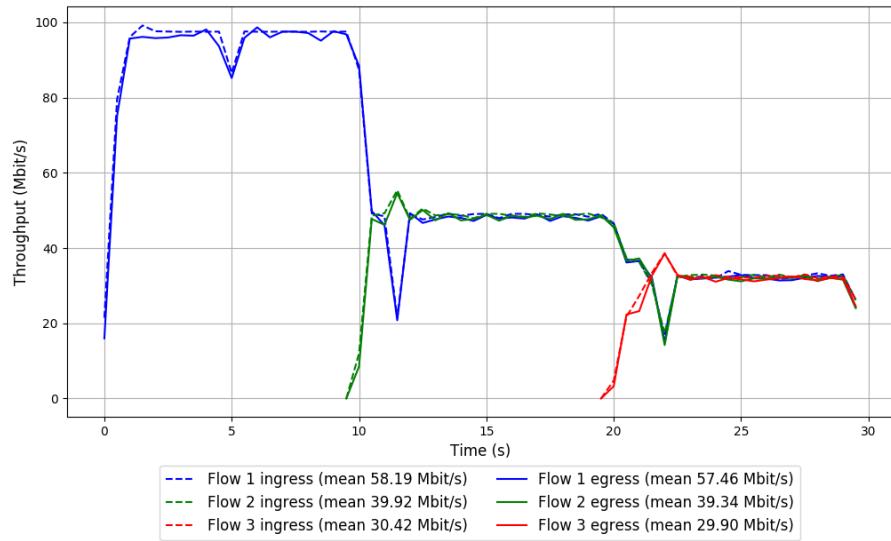


Run 3: Statistics of TCP BBR

```
Start at: 2018-01-16 23:55:52
End at: 2018-01-16 23:56:22
Local clock offset: 0.768 ms
Remote clock offset: -1.416 ms

# Below is generated by plot.py at 2018-01-17 07:46:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.56 Mbit/s
95th percentile per-packet one-way delay: 65.169 ms
Loss rate: 1.71%
-- Flow 1:
Average throughput: 57.46 Mbit/s
95th percentile per-packet one-way delay: 64.172 ms
Loss rate: 1.48%
-- Flow 2:
Average throughput: 39.34 Mbit/s
95th percentile per-packet one-way delay: 65.428 ms
Loss rate: 1.89%
-- Flow 3:
Average throughput: 29.90 Mbit/s
95th percentile per-packet one-way delay: 66.148 ms
Loss rate: 2.53%
```

### Run 3: Report of TCP BBR — Data Link

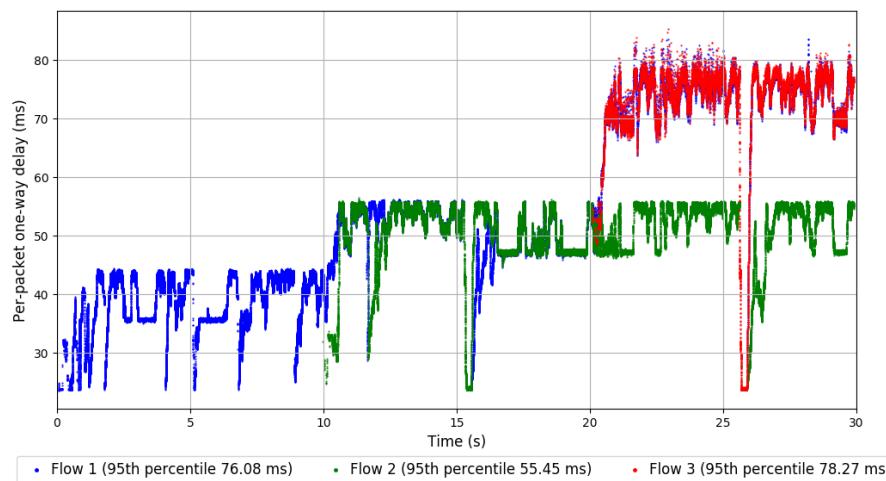
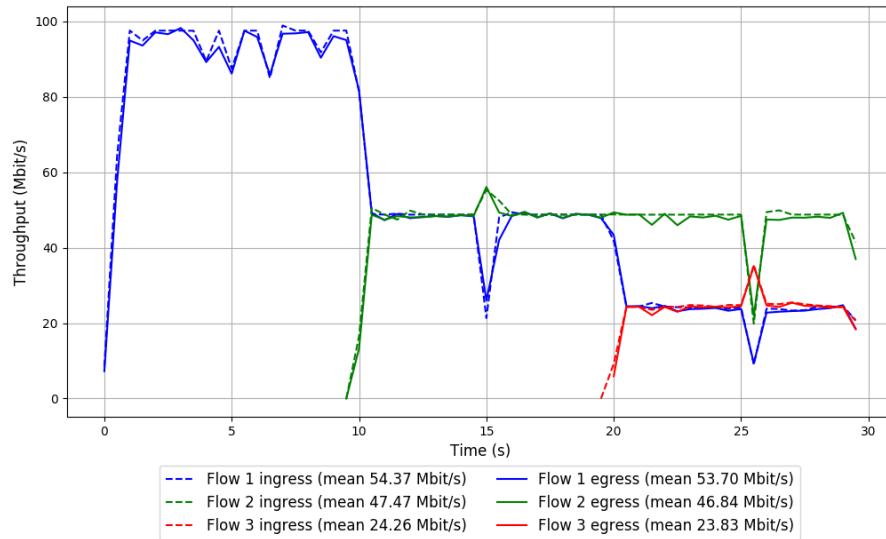


Run 4: Statistics of TCP BBR

```
Start at: 2018-01-17 00:23:13
End at: 2018-01-17 00:23:43
Local clock offset: 0.466 ms
Remote clock offset: -1.443 ms

# Below is generated by plot.py at 2018-01-17 07:46:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.80 Mbit/s
95th percentile per-packet one-way delay: 76.579 ms
Loss rate: 1.58%
-- Flow 1:
Average throughput: 53.70 Mbit/s
95th percentile per-packet one-way delay: 76.085 ms
Loss rate: 1.40%
-- Flow 2:
Average throughput: 46.84 Mbit/s
95th percentile per-packet one-way delay: 55.455 ms
Loss rate: 1.63%
-- Flow 3:
Average throughput: 23.83 Mbit/s
95th percentile per-packet one-way delay: 78.266 ms
Loss rate: 2.57%
```

## Run 4: Report of TCP BBR — Data Link

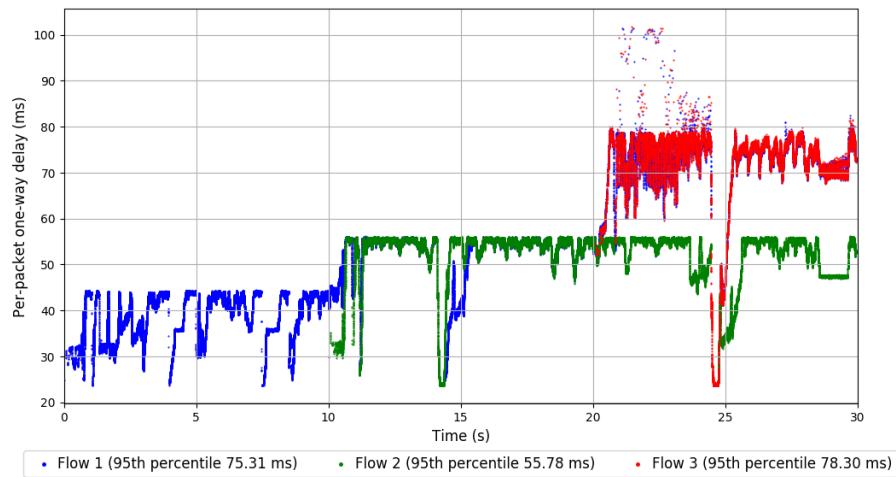
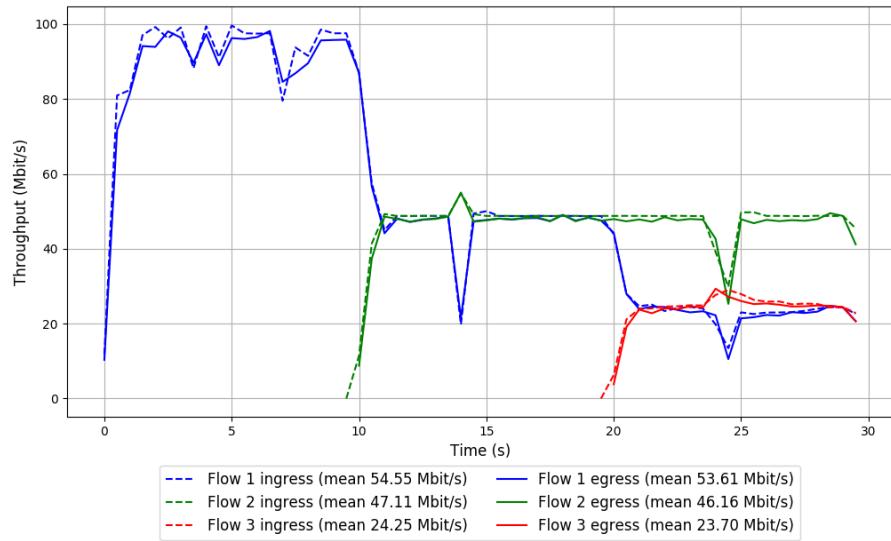


Run 5: Statistics of TCP BBR

```
Start at: 2018-01-17 00:50:33
End at: 2018-01-17 00:51:03
Local clock offset: 0.329 ms
Remote clock offset: -1.504 ms

# Below is generated by plot.py at 2018-01-17 07:46:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.18 Mbit/s
95th percentile per-packet one-way delay: 75.940 ms
Loss rate: 2.22%
-- Flow 1:
Average throughput: 53.61 Mbit/s
95th percentile per-packet one-way delay: 75.311 ms
Loss rate: 1.97%
-- Flow 2:
Average throughput: 46.16 Mbit/s
95th percentile per-packet one-way delay: 55.780 ms
Loss rate: 2.36%
-- Flow 3:
Average throughput: 23.70 Mbit/s
95th percentile per-packet one-way delay: 78.303 ms
Loss rate: 3.31%
```

## Run 5: Report of TCP BBR — Data Link

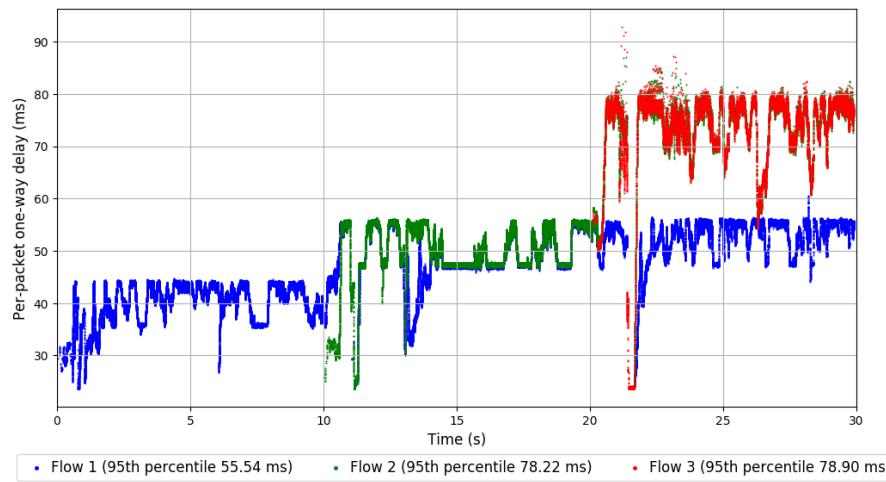
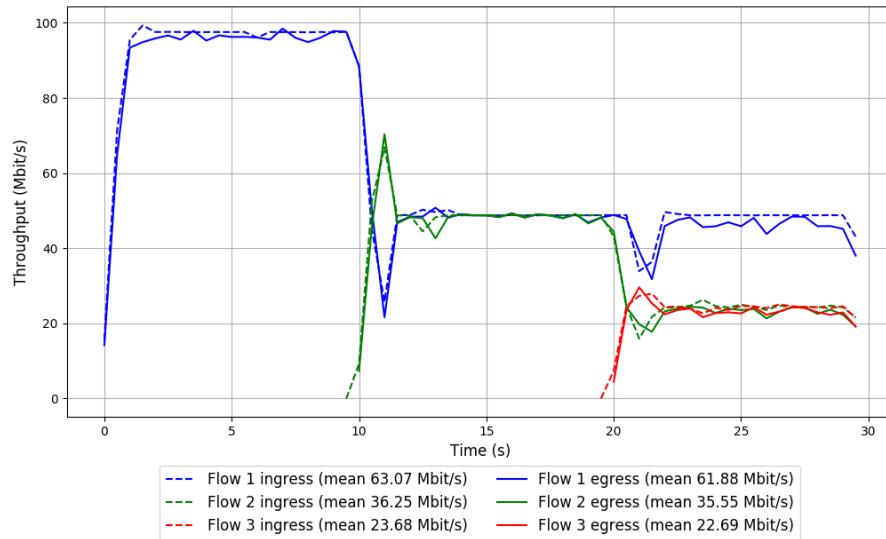


Run 6: Statistics of TCP BBR

```
Start at: 2018-01-17 01:18:18
End at: 2018-01-17 01:18:48
Local clock offset: 0.052 ms
Remote clock offset: -1.614 ms

# Below is generated by plot.py at 2018-01-17 07:46:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.07 Mbit/s
95th percentile per-packet one-way delay: 77.498 ms
Loss rate: 2.35%
-- Flow 1:
Average throughput: 61.88 Mbit/s
95th percentile per-packet one-way delay: 55.544 ms
Loss rate: 2.07%
-- Flow 2:
Average throughput: 35.55 Mbit/s
95th percentile per-packet one-way delay: 78.216 ms
Loss rate: 2.20%
-- Flow 3:
Average throughput: 22.69 Mbit/s
95th percentile per-packet one-way delay: 78.902 ms
Loss rate: 5.00%
```

## Run 6: Report of TCP BBR — Data Link

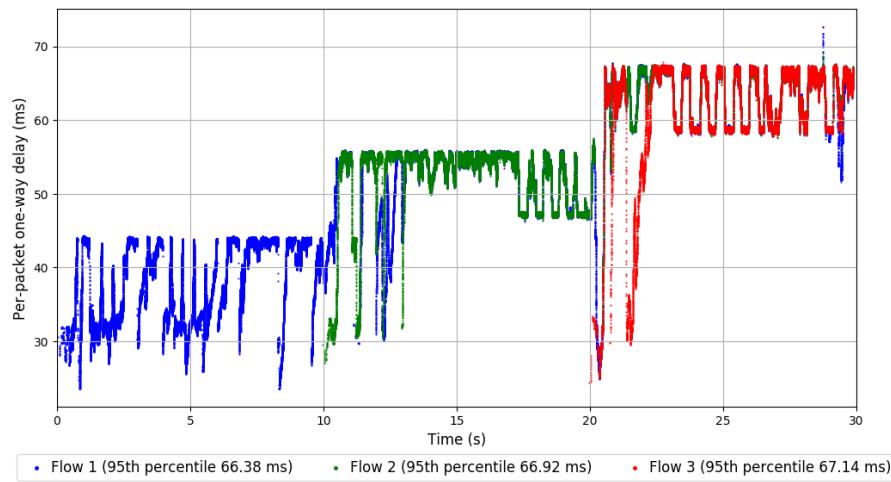
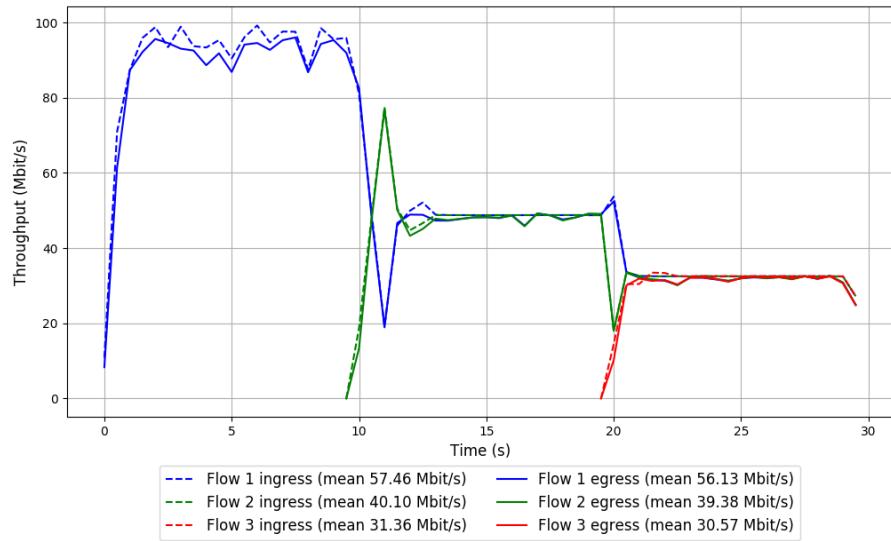


Run 7: Statistics of TCP BBR

```
Start at: 2018-01-17 01:45:46
End at: 2018-01-17 01:46:16
Local clock offset: -0.25 ms
Remote clock offset: -1.518 ms

# Below is generated by plot.py at 2018-01-17 07:46:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.53 Mbit/s
95th percentile per-packet one-way delay: 66.857 ms
Loss rate: 2.45%
-- Flow 1:
Average throughput: 56.13 Mbit/s
95th percentile per-packet one-way delay: 66.376 ms
Loss rate: 2.51%
-- Flow 2:
Average throughput: 39.38 Mbit/s
95th percentile per-packet one-way delay: 66.916 ms
Loss rate: 2.07%
-- Flow 3:
Average throughput: 30.57 Mbit/s
95th percentile per-packet one-way delay: 67.145 ms
Loss rate: 3.07%
```

## Run 7: Report of TCP BBR — Data Link

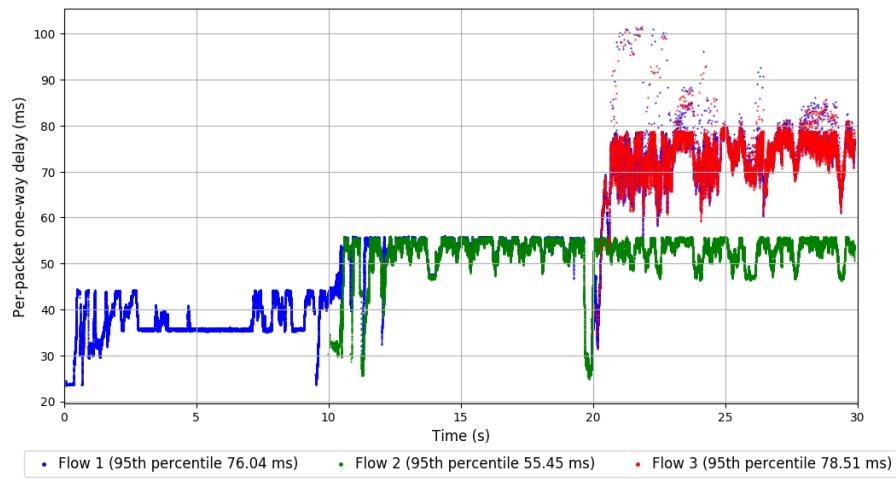
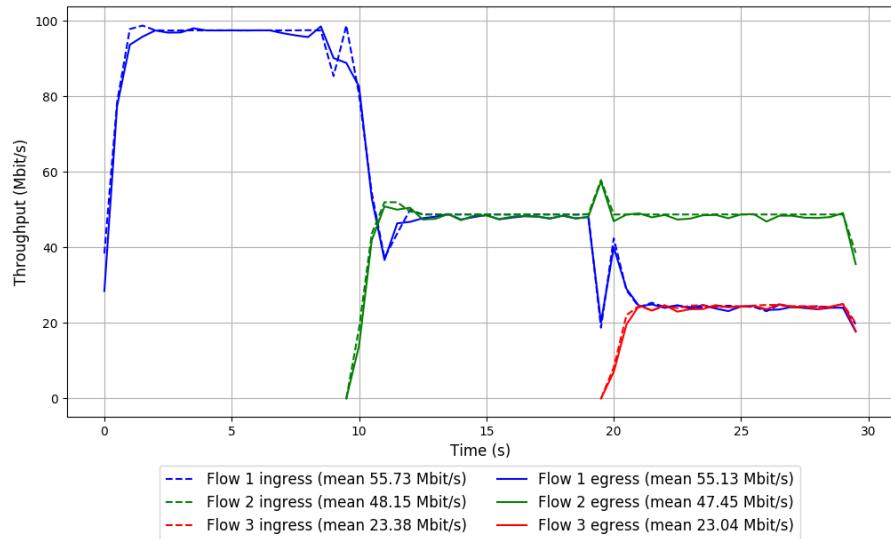


Run 8: Statistics of TCP BBR

```
Start at: 2018-01-17 02:12:56
End at: 2018-01-17 02:13:26
Local clock offset: -0.363 ms
Remote clock offset: -1.673 ms

# Below is generated by plot.py at 2018-01-17 07:46:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.40 Mbit/s
95th percentile per-packet one-way delay: 76.483 ms
Loss rate: 1.51%
-- Flow 1:
Average throughput: 55.13 Mbit/s
95th percentile per-packet one-way delay: 76.038 ms
Loss rate: 1.30%
-- Flow 2:
Average throughput: 47.45 Mbit/s
95th percentile per-packet one-way delay: 55.452 ms
Loss rate: 1.71%
-- Flow 3:
Average throughput: 23.04 Mbit/s
95th percentile per-packet one-way delay: 78.512 ms
Loss rate: 2.11%
```

## Run 8: Report of TCP BBR — Data Link

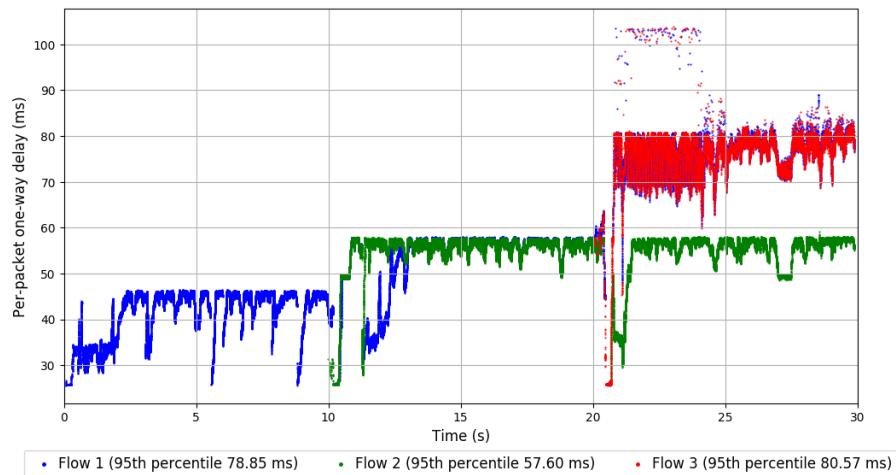
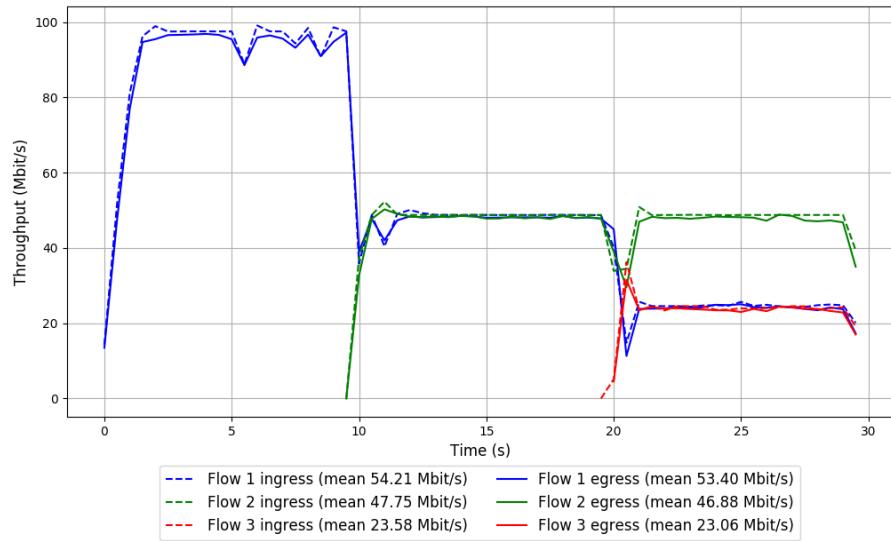


Run 9: Statistics of TCP BBR

```
Start at: 2018-01-17 02:40:01
End at: 2018-01-17 02:40:31
Local clock offset: -0.467 ms
Remote clock offset: -3.744 ms

# Below is generated by plot.py at 2018-01-17 07:48:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.29 Mbit/s
95th percentile per-packet one-way delay: 79.055 ms
Loss rate: 1.93%
-- Flow 1:
Average throughput: 53.40 Mbit/s
95th percentile per-packet one-way delay: 78.849 ms
Loss rate: 1.66%
-- Flow 2:
Average throughput: 46.88 Mbit/s
95th percentile per-packet one-way delay: 57.603 ms
Loss rate: 2.12%
-- Flow 3:
Average throughput: 23.06 Mbit/s
95th percentile per-packet one-way delay: 80.570 ms
Loss rate: 3.05%
```

## Run 9: Report of TCP BBR — Data Link

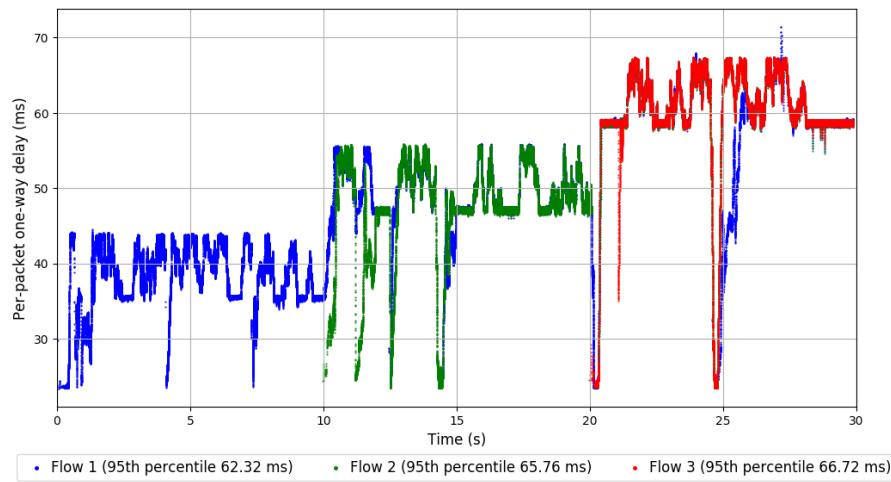
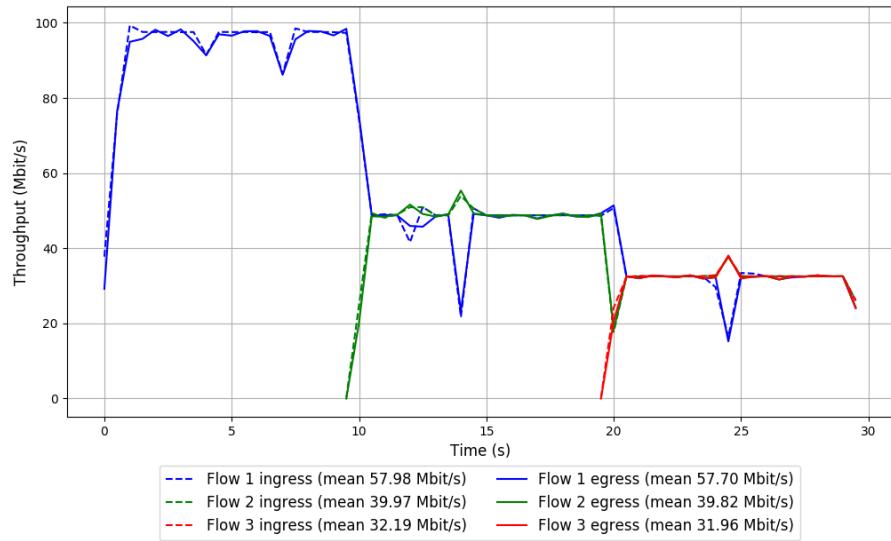


Run 10: Statistics of TCP BBR

```
Start at: 2018-01-17 03:05:23
End at: 2018-01-17 03:05:53
Local clock offset: -0.697 ms
Remote clock offset: -1.942 ms

# Below is generated by plot.py at 2018-01-17 07:48:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.88 Mbit/s
95th percentile per-packet one-way delay: 65.199 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 57.70 Mbit/s
95th percentile per-packet one-way delay: 62.321 ms
Loss rate: 0.75%
-- Flow 2:
Average throughput: 39.82 Mbit/s
95th percentile per-packet one-way delay: 65.760 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 31.96 Mbit/s
95th percentile per-packet one-way delay: 66.723 ms
Loss rate: 1.26%
```

## Run 10: Report of TCP BBR — Data Link

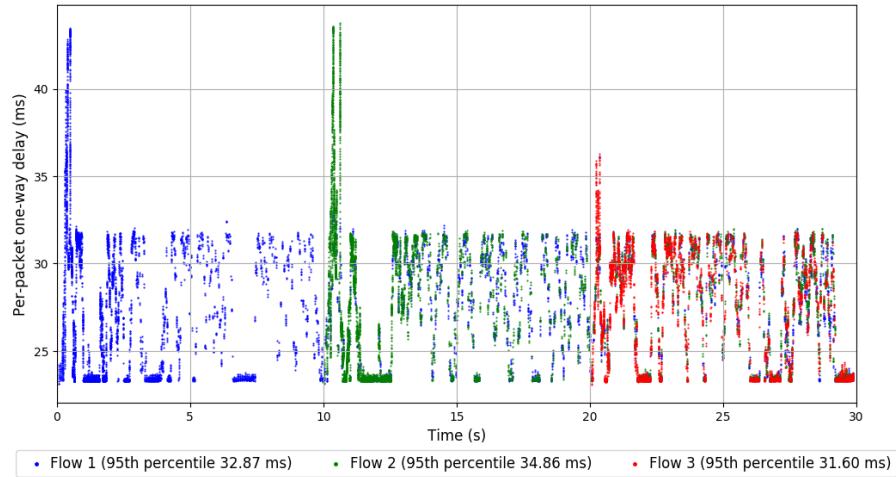
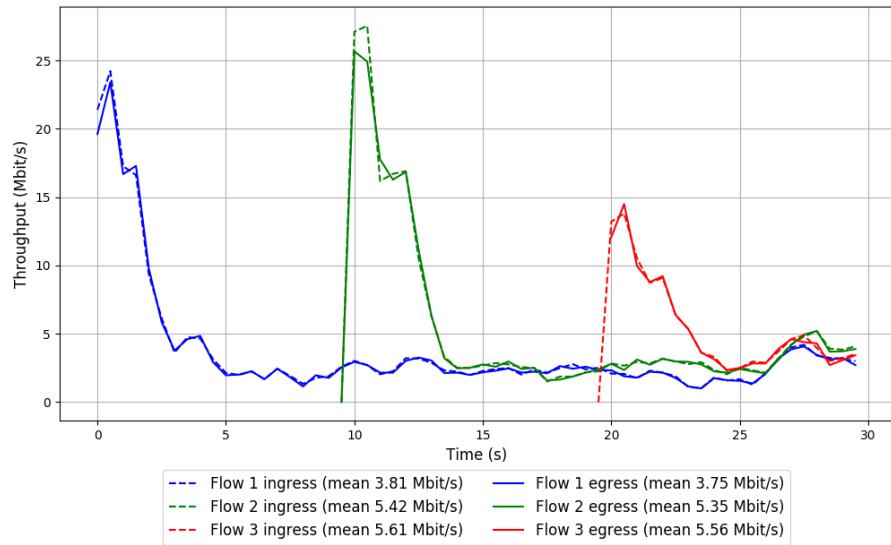


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2018-01-16 23:18:36
End at: 2018-01-16 23:19:06
Local clock offset: 0.84 ms
Remote clock offset: -2.689 ms

# Below is generated by plot.py at 2018-01-17 07:48:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 9.15 Mbit/s
95th percentile per-packet one-way delay: 32.944 ms
Loss rate: 1.68%
-- Flow 1:
Average throughput: 3.75 Mbit/s
95th percentile per-packet one-way delay: 32.870 ms
Loss rate: 1.82%
-- Flow 2:
Average throughput: 5.35 Mbit/s
95th percentile per-packet one-way delay: 34.864 ms
Loss rate: 1.63%
-- Flow 3:
Average throughput: 5.56 Mbit/s
95th percentile per-packet one-way delay: 31.600 ms
Loss rate: 1.48%
```

### Run 1: Report of TCP Cubic — Data Link

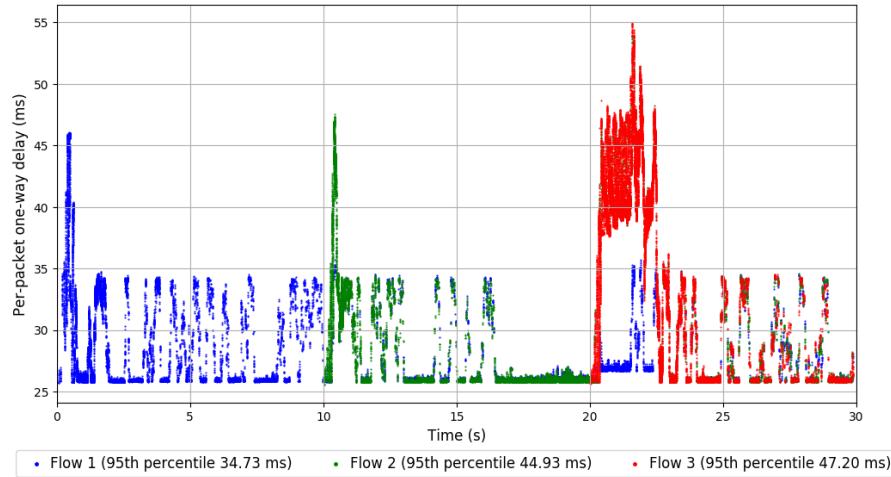
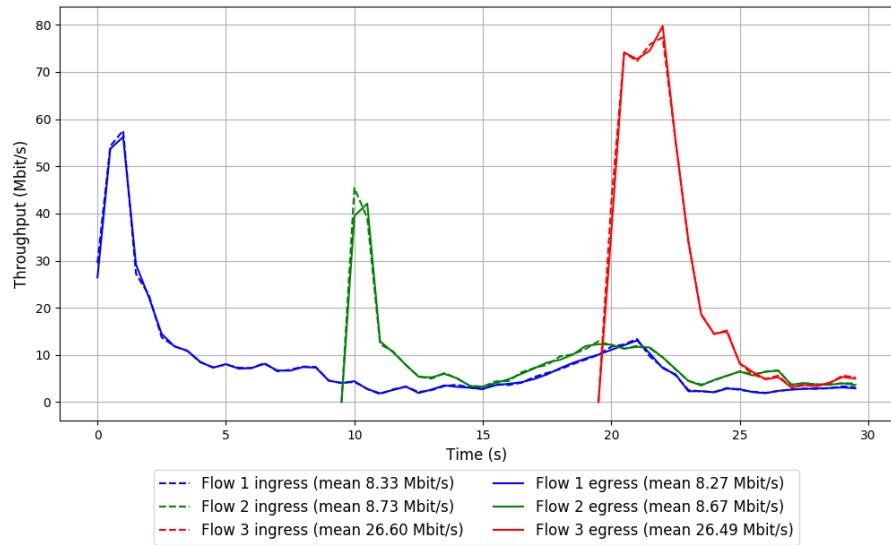


Run 2: Statistics of TCP Cubic

```
Start at: 2018-01-16 23:45:08
End at: 2018-01-16 23:45:38
Local clock offset: 0.937 ms
Remote clock offset: -4.25 ms

# Below is generated by plot.py at 2018-01-17 07:48:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 22.82 Mbit/s
95th percentile per-packet one-way delay: 45.807 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 8.27 Mbit/s
95th percentile per-packet one-way delay: 34.735 ms
Loss rate: 0.95%
-- Flow 2:
Average throughput: 8.67 Mbit/s
95th percentile per-packet one-way delay: 44.931 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 26.49 Mbit/s
95th percentile per-packet one-way delay: 47.202 ms
Loss rate: 0.93%
```

## Run 2: Report of TCP Cubic — Data Link

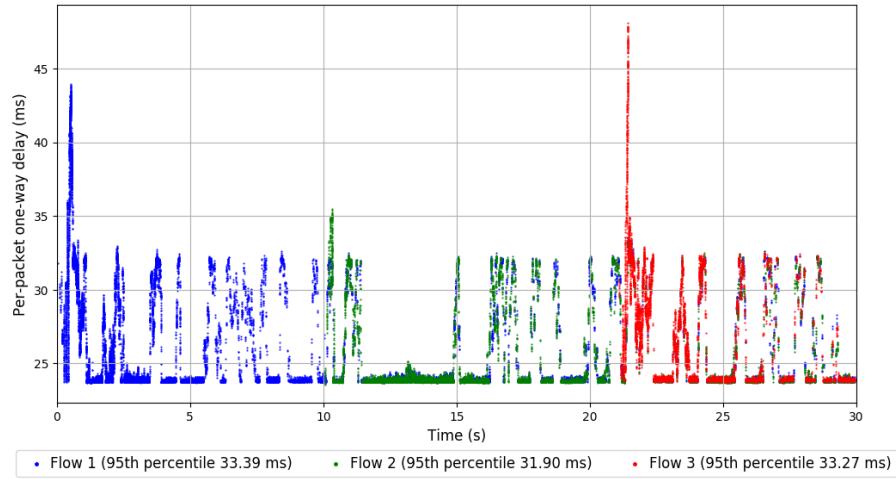
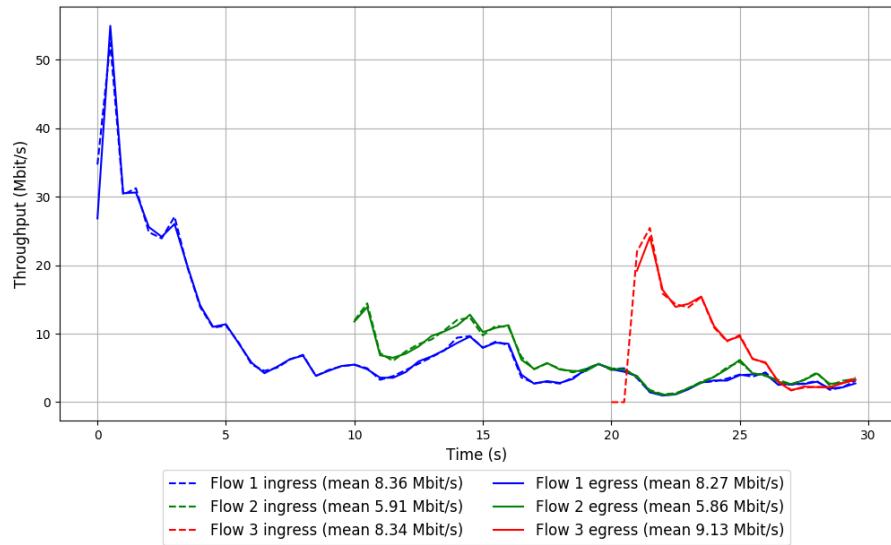


Run 3: Statistics of TCP Cubic

```
Start at: 2018-01-17 00:12:11
End at: 2018-01-17 00:12:41
Local clock offset: 0.659 ms
Remote clock offset: -1.599 ms

# Below is generated by plot.py at 2018-01-17 07:48:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.88 Mbit/s
95th percentile per-packet one-way delay: 32.362 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 8.27 Mbit/s
95th percentile per-packet one-way delay: 33.392 ms
Loss rate: 1.32%
-- Flow 2:
Average throughput: 5.86 Mbit/s
95th percentile per-packet one-way delay: 31.898 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 9.13 Mbit/s
95th percentile per-packet one-way delay: 33.275 ms
Loss rate: 2.24%
```

### Run 3: Report of TCP Cubic — Data Link

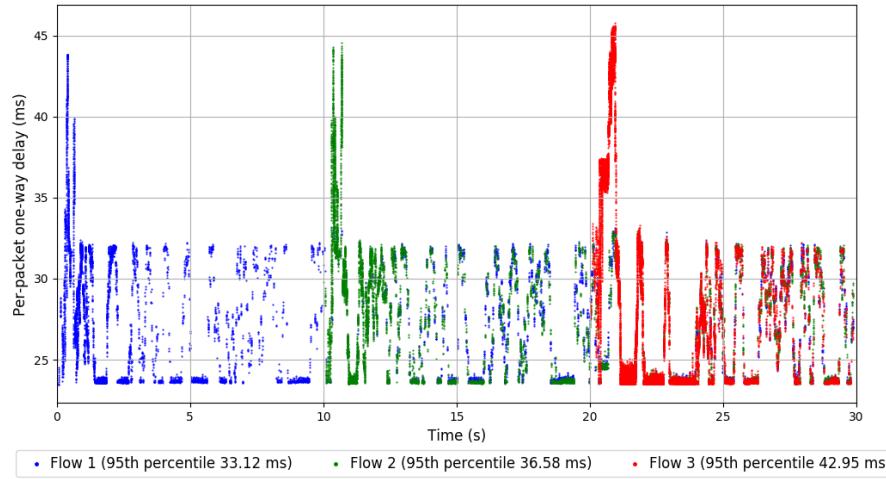
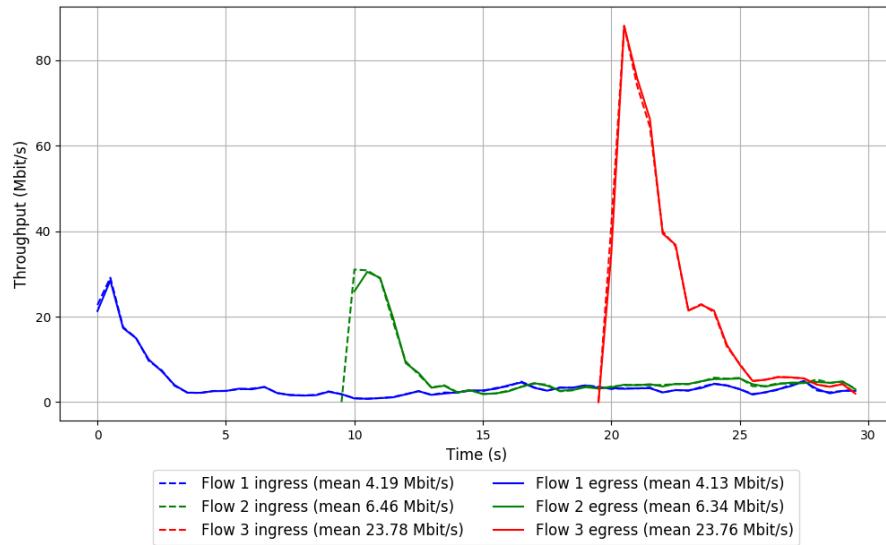


Run 4: Statistics of TCP Cubic

```
Start at: 2018-01-17 00:39:33
End at: 2018-01-17 00:40:03
Local clock offset: 0.331 ms
Remote clock offset: -1.257 ms

# Below is generated by plot.py at 2018-01-17 07:48:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 16.22 Mbit/s
95th percentile per-packet one-way delay: 40.108 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 4.13 Mbit/s
95th percentile per-packet one-way delay: 33.122 ms
Loss rate: 1.60%
-- Flow 2:
Average throughput: 6.34 Mbit/s
95th percentile per-packet one-way delay: 36.583 ms
Loss rate: 2.19%
-- Flow 3:
Average throughput: 23.76 Mbit/s
95th percentile per-packet one-way delay: 42.952 ms
Loss rate: 0.63%
```

### Run 4: Report of TCP Cubic — Data Link

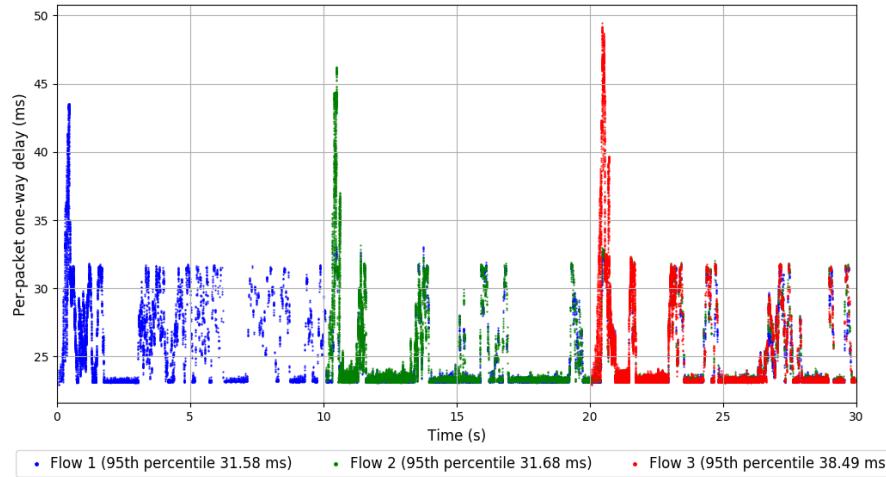
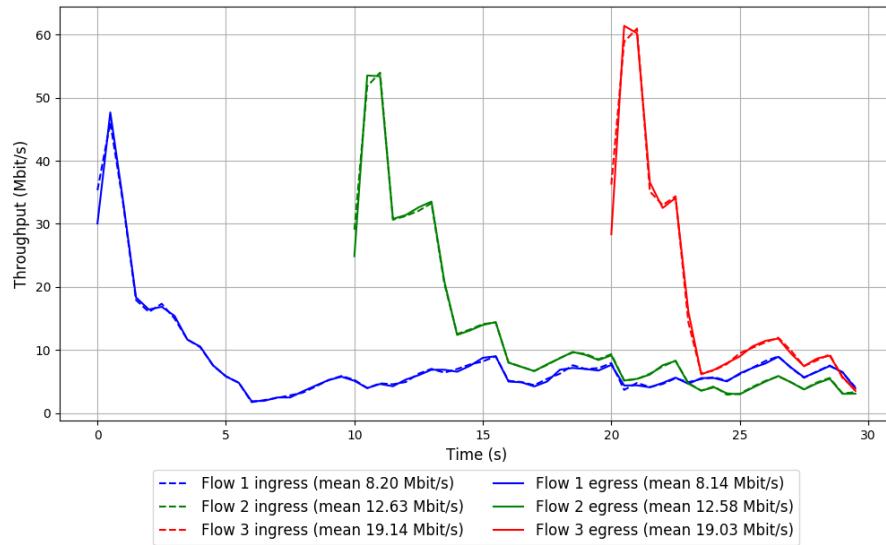


Run 5: Statistics of TCP Cubic

```
Start at: 2018-01-17 01:07:49
End at: 2018-01-17 01:08:19
Local clock offset: 0.059 ms
Remote clock offset: -1.169 ms

# Below is generated by plot.py at 2018-01-17 07:48:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 22.80 Mbit/s
95th percentile per-packet one-way delay: 32.633 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 8.14 Mbit/s
95th percentile per-packet one-way delay: 31.578 ms
Loss rate: 0.87%
-- Flow 2:
Average throughput: 12.58 Mbit/s
95th percentile per-packet one-way delay: 31.679 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 19.03 Mbit/s
95th percentile per-packet one-way delay: 38.495 ms
Loss rate: 1.14%
```

Run 5: Report of TCP Cubic — Data Link

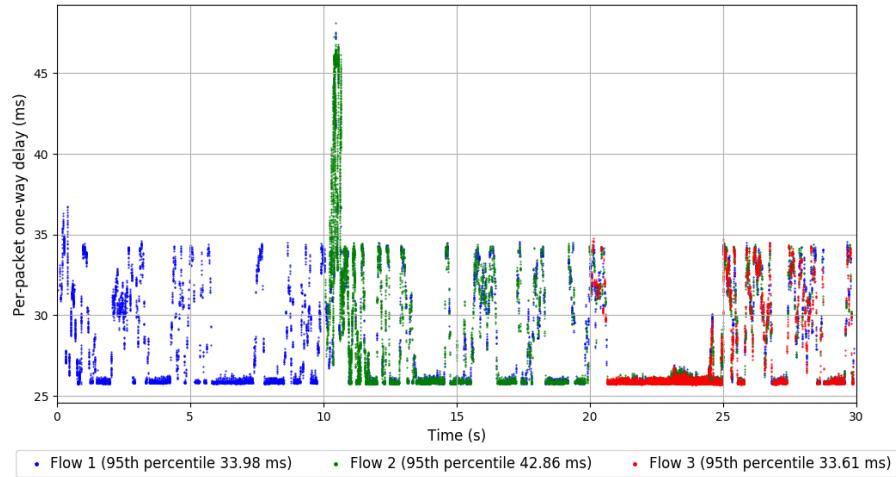
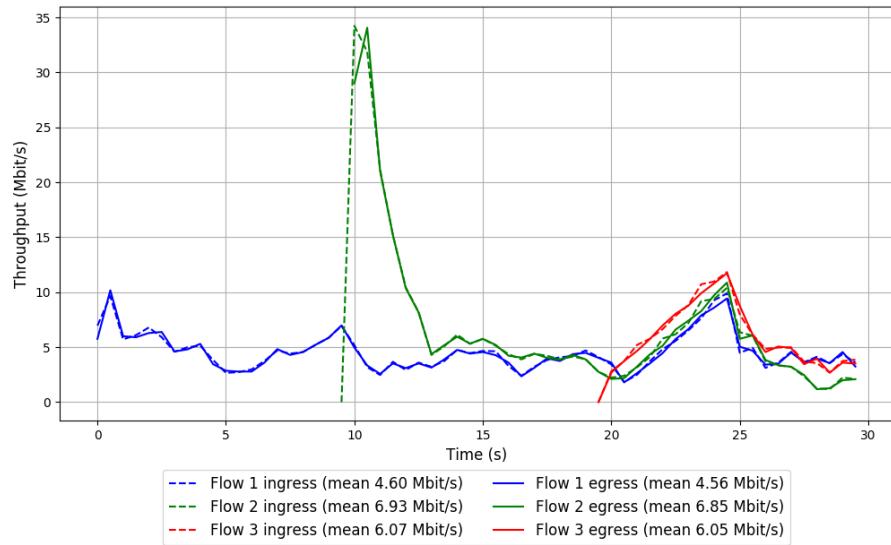


Run 6: Statistics of TCP Cubic

```
Start at: 2018-01-17 01:34:36
End at: 2018-01-17 01:35:06
Local clock offset: -0.097 ms
Remote clock offset: -3.661 ms

# Below is generated by plot.py at 2018-01-17 07:48:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.13 Mbit/s
95th percentile per-packet one-way delay: 34.347 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 4.56 Mbit/s
95th percentile per-packet one-way delay: 33.980 ms
Loss rate: 0.86%
-- Flow 2:
Average throughput: 6.85 Mbit/s
95th percentile per-packet one-way delay: 42.863 ms
Loss rate: 1.41%
-- Flow 3:
Average throughput: 6.05 Mbit/s
95th percentile per-packet one-way delay: 33.612 ms
Loss rate: 0.91%
```

## Run 6: Report of TCP Cubic — Data Link

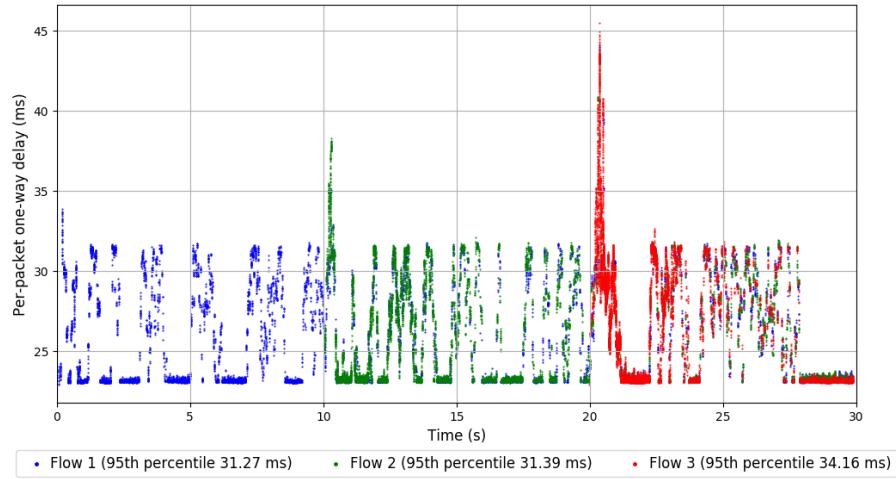
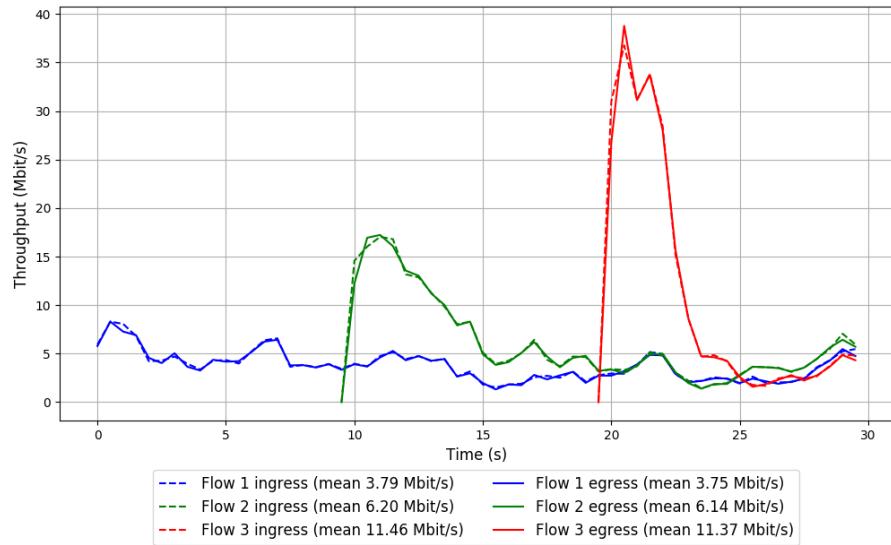


Run 7: Statistics of TCP Cubic

```
Start at: 2018-01-17 02:02:00
End at: 2018-01-17 02:02:30
Local clock offset: -0.382 ms
Remote clock offset: -1.127 ms

# Below is generated by plot.py at 2018-01-17 07:48:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.61 Mbit/s
95th percentile per-packet one-way delay: 31.471 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 3.75 Mbit/s
95th percentile per-packet one-way delay: 31.267 ms
Loss rate: 1.31%
-- Flow 2:
Average throughput: 6.14 Mbit/s
95th percentile per-packet one-way delay: 31.388 ms
Loss rate: 1.26%
-- Flow 3:
Average throughput: 11.37 Mbit/s
95th percentile per-packet one-way delay: 34.158 ms
Loss rate: 1.28%
```

### Run 7: Report of TCP Cubic — Data Link

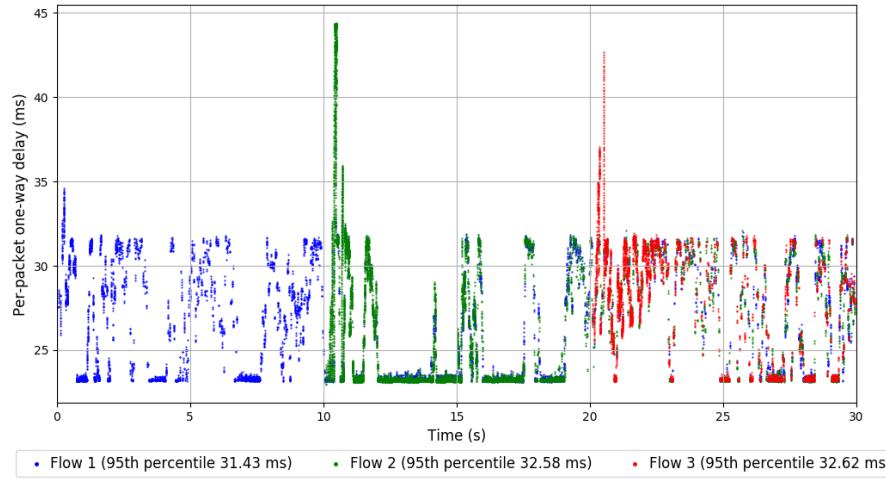
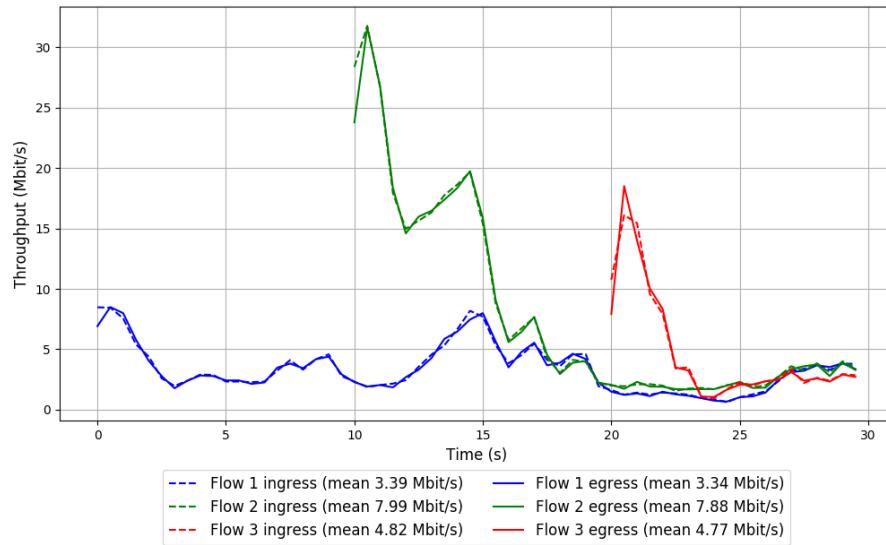


Run 8: Statistics of TCP Cubic

```
Start at: 2018-01-17 02:29:11
End at: 2018-01-17 02:29:41
Local clock offset: -0.339 ms
Remote clock offset: -1.136 ms

# Below is generated by plot.py at 2018-01-17 07:48:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 10.15 Mbit/s
95th percentile per-packet one-way delay: 31.660 ms
Loss rate: 1.62%
-- Flow 1:
Average throughput: 3.34 Mbit/s
95th percentile per-packet one-way delay: 31.429 ms
Loss rate: 1.50%
-- Flow 2:
Average throughput: 7.88 Mbit/s
95th percentile per-packet one-way delay: 32.575 ms
Loss rate: 1.67%
-- Flow 3:
Average throughput: 4.77 Mbit/s
95th percentile per-packet one-way delay: 32.615 ms
Loss rate: 1.70%
```

Run 8: Report of TCP Cubic — Data Link

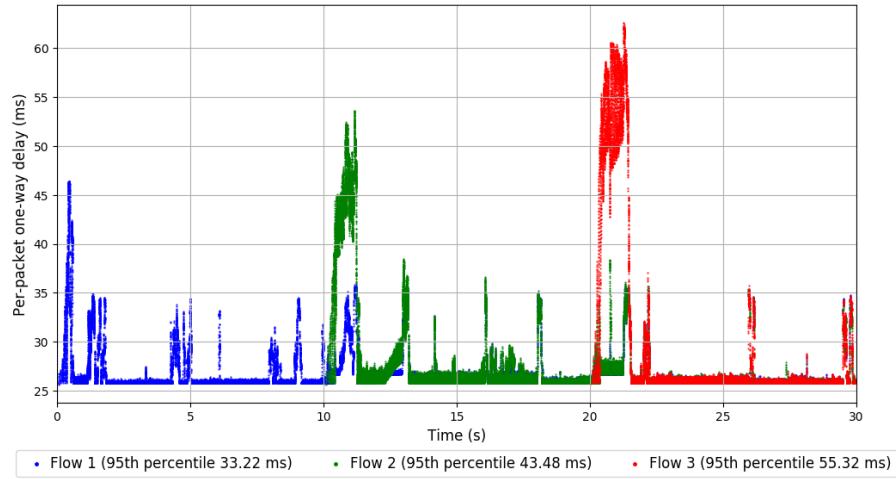
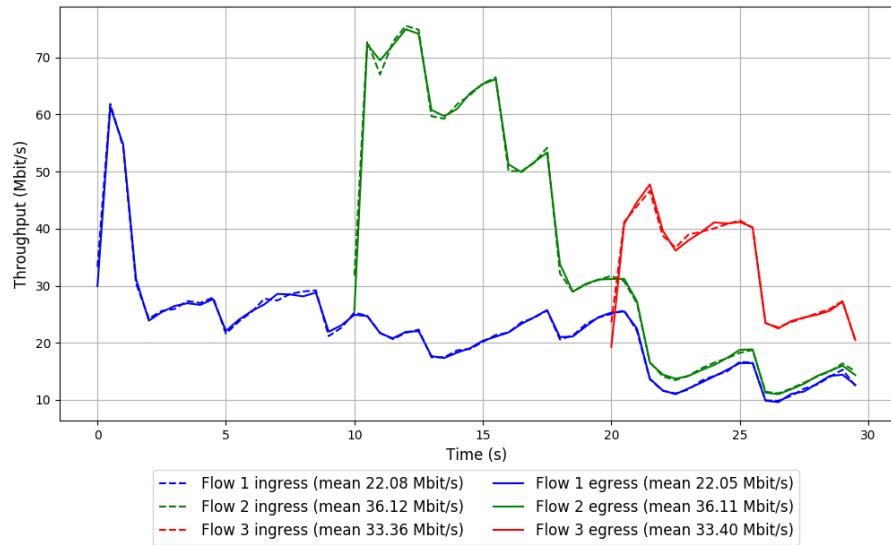


Run 9: Statistics of TCP Cubic

```
Start at: 2018-01-17 02:55:39
End at: 2018-01-17 02:56:09
Local clock offset: -0.486 ms
Remote clock offset: -3.938 ms

# Below is generated by plot.py at 2018-01-17 07:48:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 57.11 Mbit/s
95th percentile per-packet one-way delay: 43.339 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 22.05 Mbit/s
95th percentile per-packet one-way delay: 33.215 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 36.11 Mbit/s
95th percentile per-packet one-way delay: 43.482 ms
Loss rate: 0.30%
-- Flow 3:
Average throughput: 33.40 Mbit/s
95th percentile per-packet one-way delay: 55.322 ms
Loss rate: 0.44%
```

### Run 9: Report of TCP Cubic — Data Link

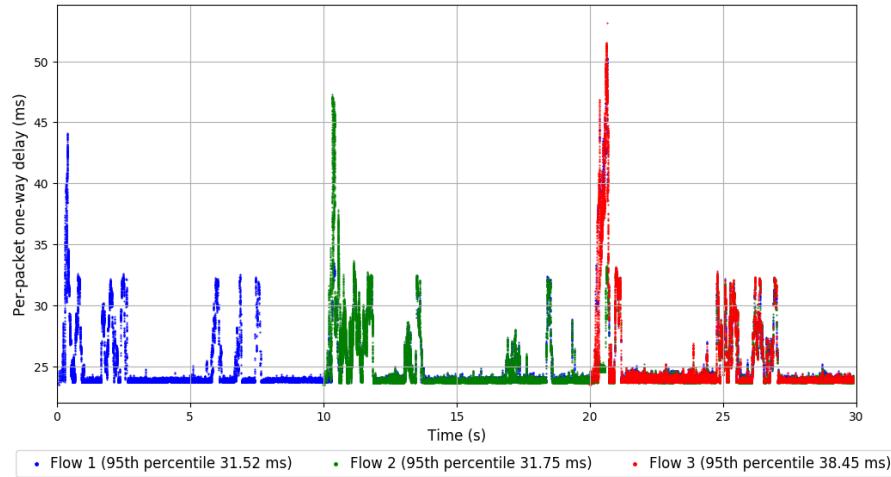
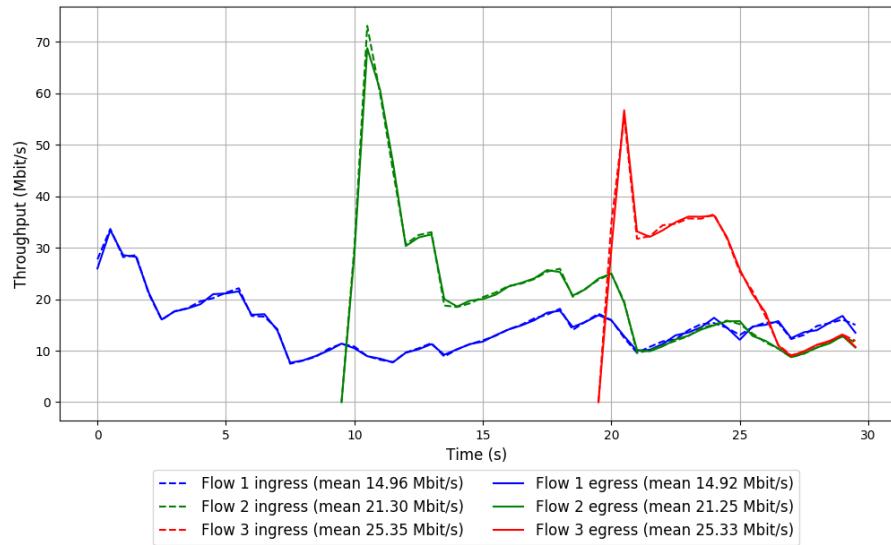


```
Run 10: Statistics of TCP Cubic
```

```
Start at: 2018-01-17 03:20:55
End at: 2018-01-17 03:21:25
Local clock offset: -0.633 ms
Remote clock offset: -2.084 ms

# Below is generated by plot.py at 2018-01-17 07:48:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 37.47 Mbit/s
95th percentile per-packet one-way delay: 32.113 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 14.92 Mbit/s
95th percentile per-packet one-way delay: 31.521 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 21.25 Mbit/s
95th percentile per-packet one-way delay: 31.753 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 25.33 Mbit/s
95th percentile per-packet one-way delay: 38.450 ms
Loss rate: 0.62%
```

Run 10: Report of TCP Cubic — Data Link

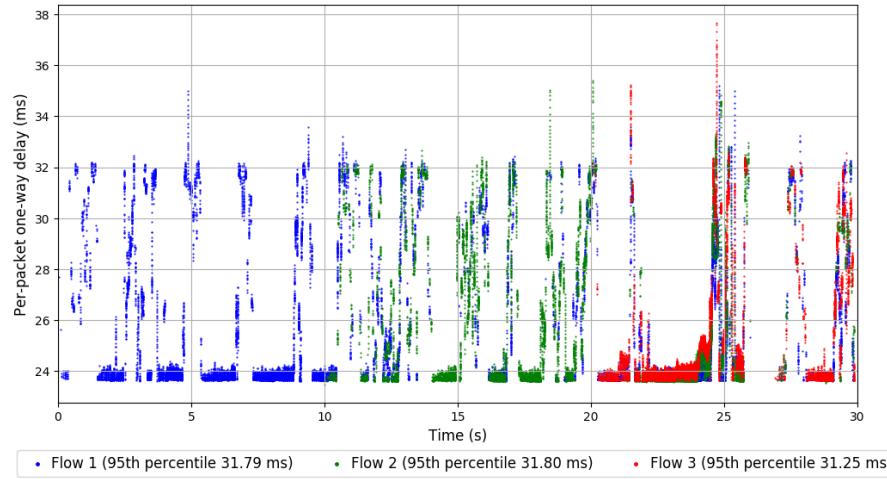
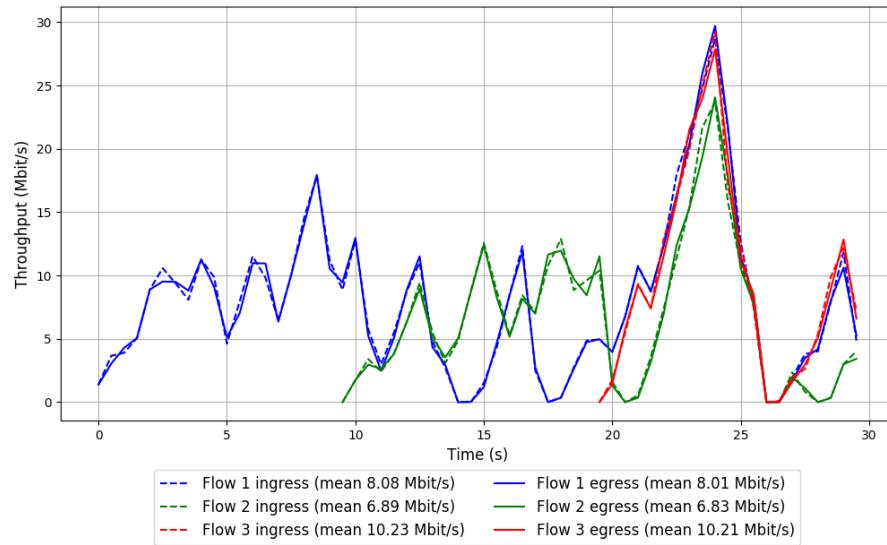


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2018-01-16 23:09:57
End at: 2018-01-16 23:10:27
Local clock offset: 0.814 ms
Remote clock offset: -3.376 ms

# Below is generated by plot.py at 2018-01-17 07:48:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.94 Mbit/s
95th percentile per-packet one-way delay: 31.755 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 8.01 Mbit/s
95th percentile per-packet one-way delay: 31.786 ms
Loss rate: 0.96%
-- Flow 2:
Average throughput: 6.83 Mbit/s
95th percentile per-packet one-way delay: 31.804 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 10.21 Mbit/s
95th percentile per-packet one-way delay: 31.253 ms
Loss rate: 0.82%
```

Run 1: Report of LEDBAT — Data Link

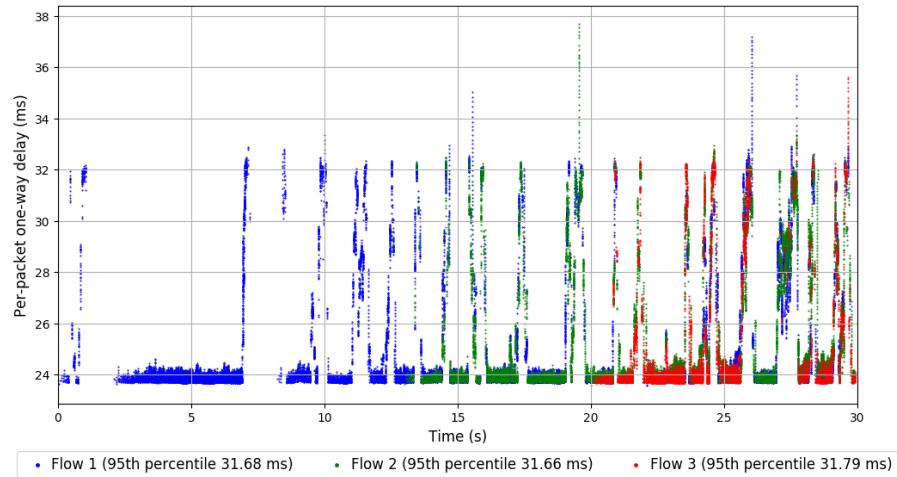
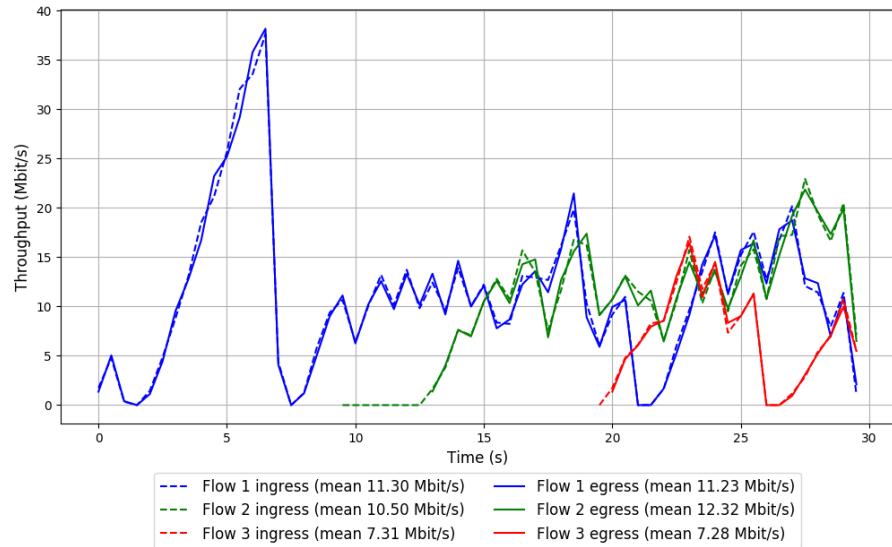


Run 2: Statistics of LEDBAT

```
Start at: 2018-01-16 23:36:37
End at: 2018-01-16 23:37:07
Local clock offset: 0.916 ms
Remote clock offset: -2.432 ms

# Below is generated by plot.py at 2018-01-17 07:48:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 20.52 Mbit/s
95th percentile per-packet one-way delay: 31.692 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 11.23 Mbit/s
95th percentile per-packet one-way delay: 31.684 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 12.32 Mbit/s
95th percentile per-packet one-way delay: 31.661 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 7.28 Mbit/s
95th percentile per-packet one-way delay: 31.786 ms
Loss rate: 1.00%
```

Run 2: Report of LEDBAT — Data Link

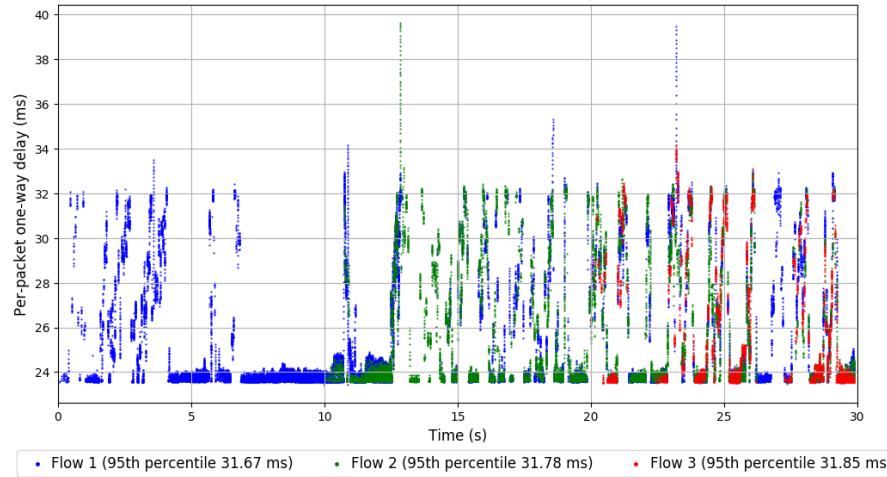
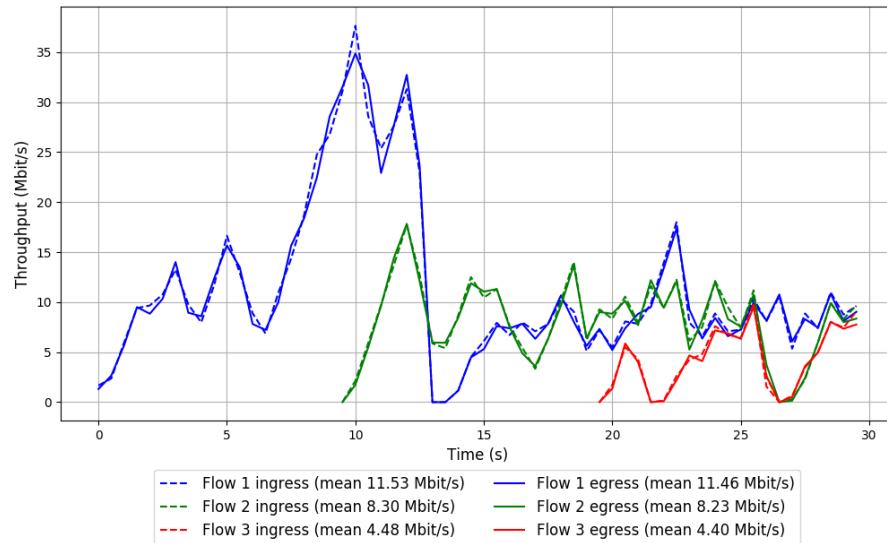


Run 3: Statistics of LEDBAT

```
Start at: 2018-01-17 00:03:27
End at: 2018-01-17 00:03:57
Local clock offset: 0.677 ms
Remote clock offset: -1.663 ms

# Below is generated by plot.py at 2018-01-17 07:48:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.41 Mbit/s
95th percentile per-packet one-way delay: 31.741 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 11.46 Mbit/s
95th percentile per-packet one-way delay: 31.668 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 8.23 Mbit/s
95th percentile per-packet one-way delay: 31.777 ms
Loss rate: 1.15%
-- Flow 3:
Average throughput: 4.40 Mbit/s
95th percentile per-packet one-way delay: 31.849 ms
Loss rate: 2.50%
```

Run 3: Report of LEDBAT — Data Link

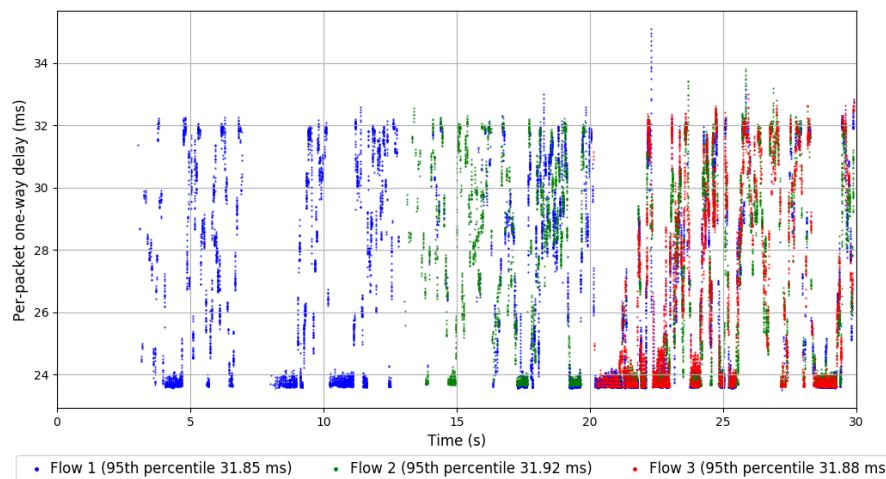
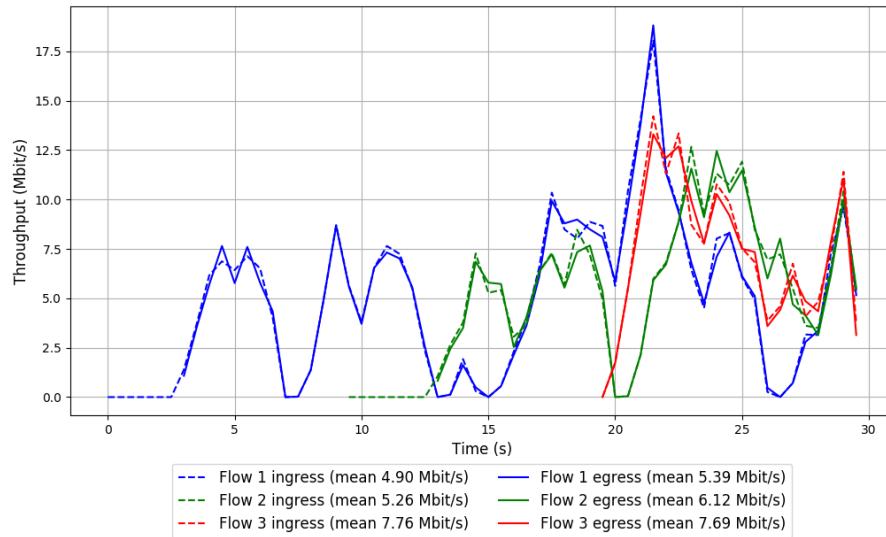


Run 4: Statistics of LEDBAT

```
Start at: 2018-01-17 00:30:46
End at: 2018-01-17 00:31:16
Local clock offset: 0.38 ms
Remote clock offset: -1.36 ms

# Below is generated by plot.py at 2018-01-17 07:48:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.06 Mbit/s
95th percentile per-packet one-way delay: 31.877 ms
Loss rate: 1.39%
-- Flow 1:
Average throughput: 5.39 Mbit/s
95th percentile per-packet one-way delay: 31.848 ms
Loss rate: 1.19%
-- Flow 2:
Average throughput: 6.12 Mbit/s
95th percentile per-packet one-way delay: 31.921 ms
Loss rate: 1.57%
-- Flow 3:
Average throughput: 7.69 Mbit/s
95th percentile per-packet one-way delay: 31.875 ms
Loss rate: 1.53%
```

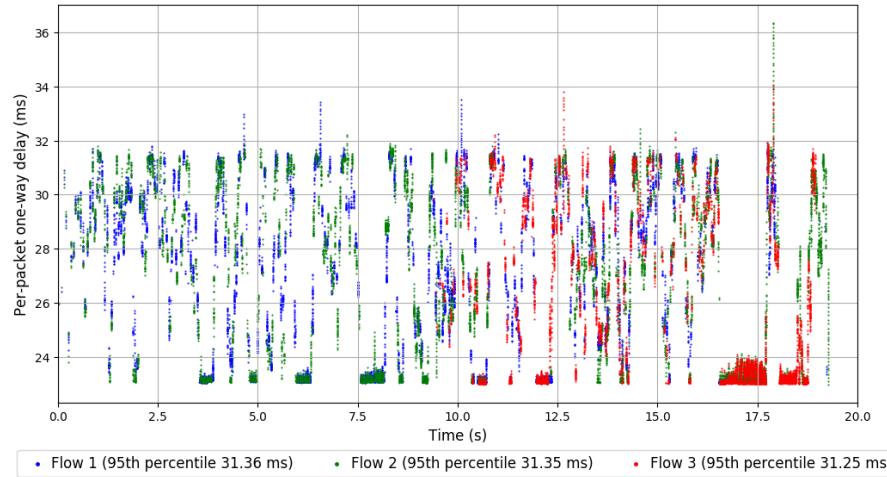
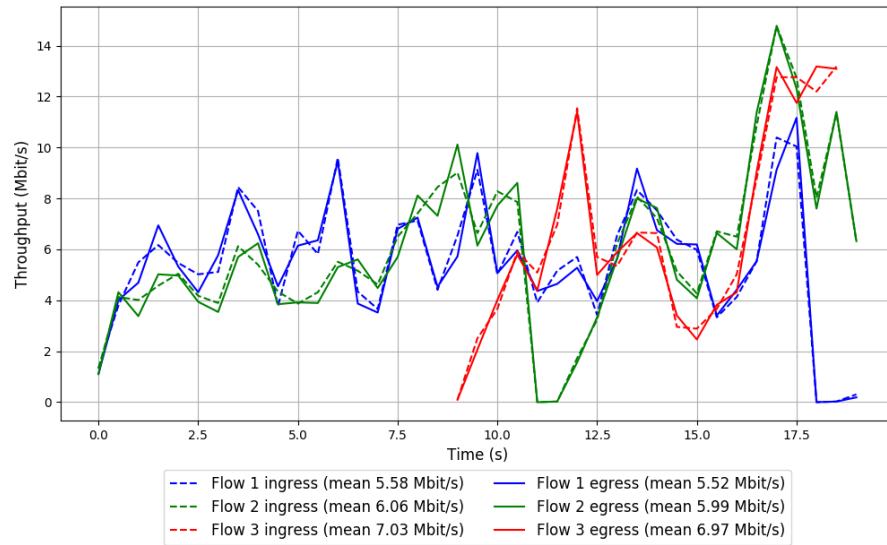
Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-01-17 00:59:21  
End at: 2018-01-17 00:59:51  
Local clock offset: 0.149 ms  
Remote clock offset: -1.06 ms

Run 5: Report of LEDBAT — Data Link

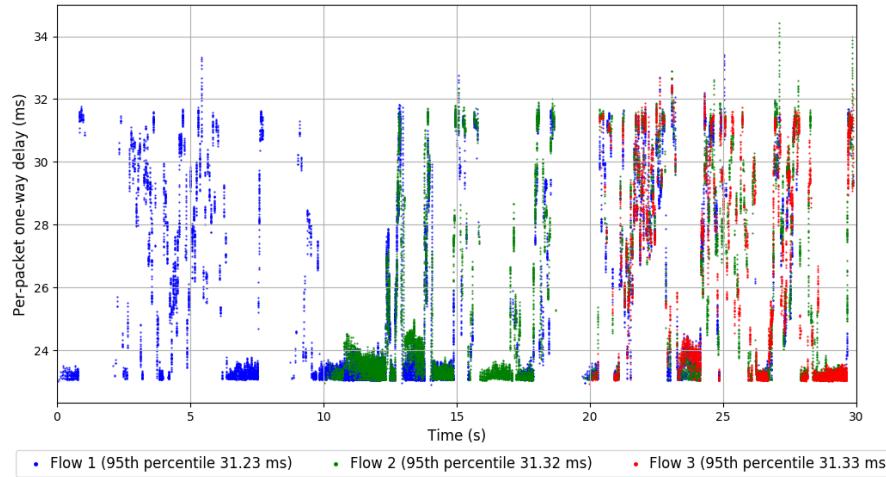
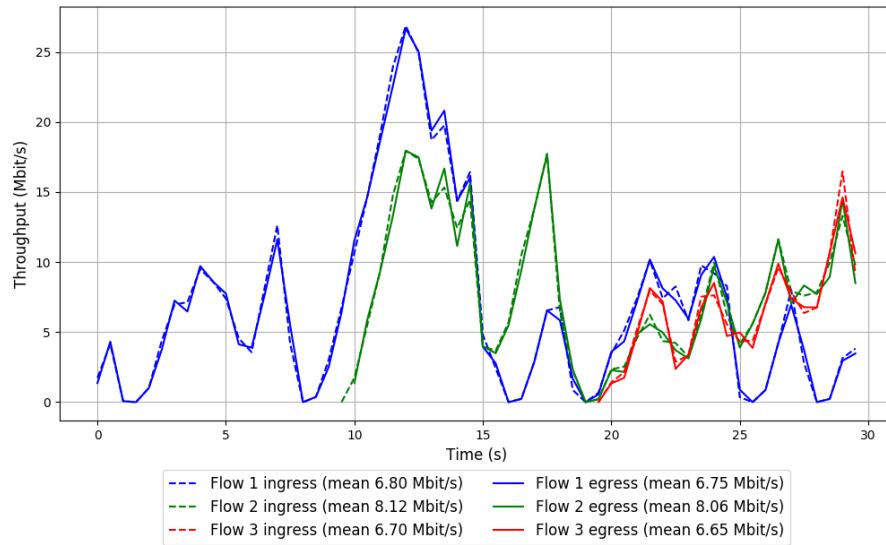


Run 6: Statistics of LEDBAT

```
Start at: 2018-01-17 01:25:59
End at: 2018-01-17 01:26:29
Local clock offset: -0.163 ms
Remote clock offset: -1.033 ms

# Below is generated by plot.py at 2018-01-17 07:48:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.30 Mbit/s
95th percentile per-packet one-way delay: 31.289 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 6.75 Mbit/s
95th percentile per-packet one-way delay: 31.227 ms
Loss rate: 0.92%
-- Flow 2:
Average throughput: 8.06 Mbit/s
95th percentile per-packet one-way delay: 31.322 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 6.65 Mbit/s
95th percentile per-packet one-way delay: 31.329 ms
Loss rate: 1.23%
```

Run 6: Report of LEDBAT — Data Link

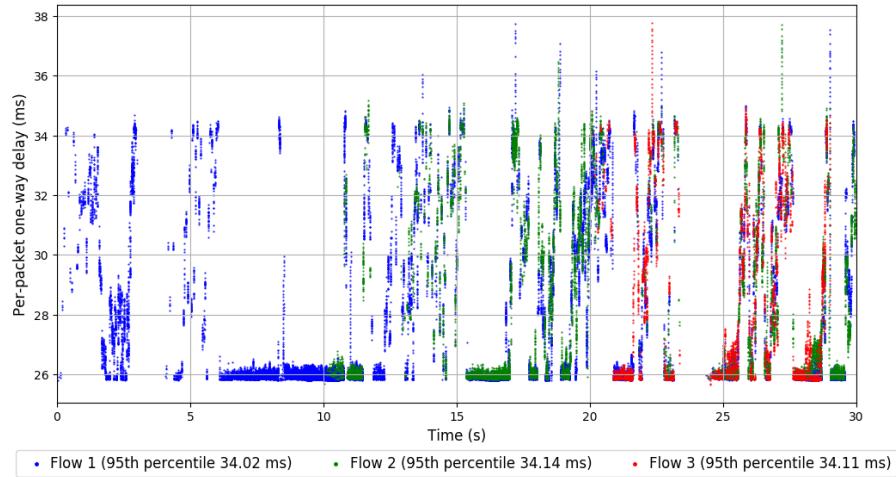
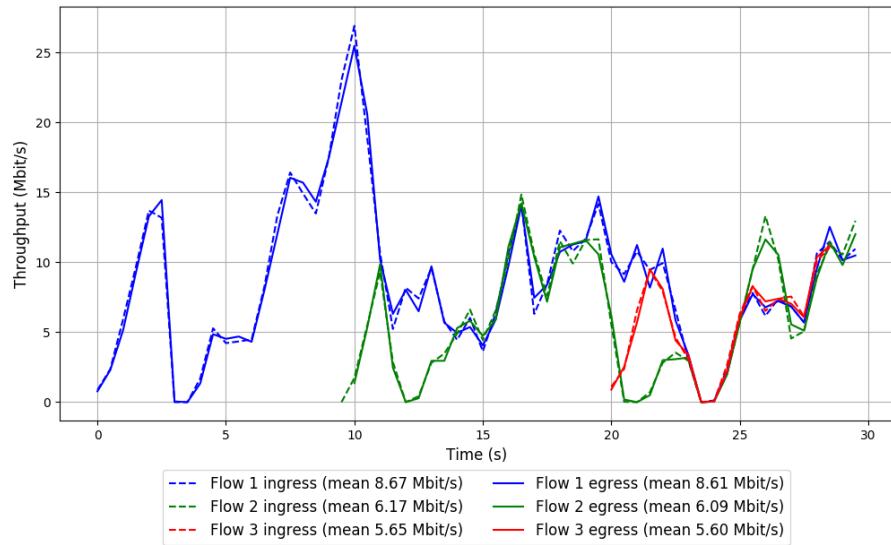


Run 7: Statistics of LEDBAT

```
Start at: 2018-01-17 01:53:34
End at: 2018-01-17 01:54:04
Local clock offset: -0.197 ms
Remote clock offset: -3.713 ms

# Below is generated by plot.py at 2018-01-17 07:48:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.33 Mbit/s
95th percentile per-packet one-way delay: 34.073 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 8.61 Mbit/s
95th percentile per-packet one-way delay: 34.023 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 6.09 Mbit/s
95th percentile per-packet one-way delay: 34.142 ms
Loss rate: 1.48%
-- Flow 3:
Average throughput: 5.60 Mbit/s
95th percentile per-packet one-way delay: 34.108 ms
Loss rate: 0.81%
```

Run 7: Report of LEDBAT — Data Link

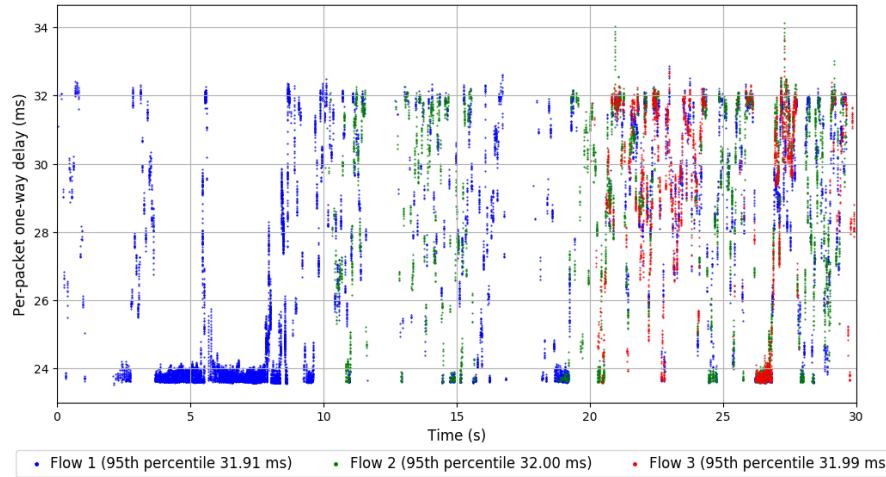
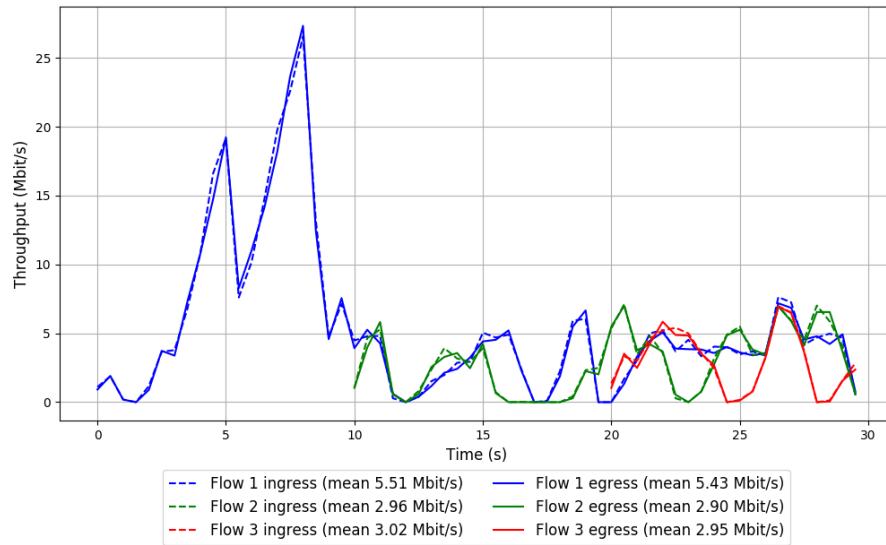


Run 8: Statistics of LEDBAT

```
Start at: 2018-01-17 02:20:33
End at: 2018-01-17 02:21:03
Local clock offset: -0.355 ms
Remote clock offset: -1.632 ms

# Below is generated by plot.py at 2018-01-17 07:48:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.24 Mbit/s
95th percentile per-packet one-way delay: 31.946 ms
Loss rate: 1.70%
-- Flow 1:
Average throughput: 5.43 Mbit/s
95th percentile per-packet one-way delay: 31.910 ms
Loss rate: 1.41%
-- Flow 2:
Average throughput: 2.90 Mbit/s
95th percentile per-packet one-way delay: 32.002 ms
Loss rate: 1.95%
-- Flow 3:
Average throughput: 2.95 Mbit/s
95th percentile per-packet one-way delay: 31.992 ms
Loss rate: 2.82%
```

Run 8: Report of LEDBAT — Data Link

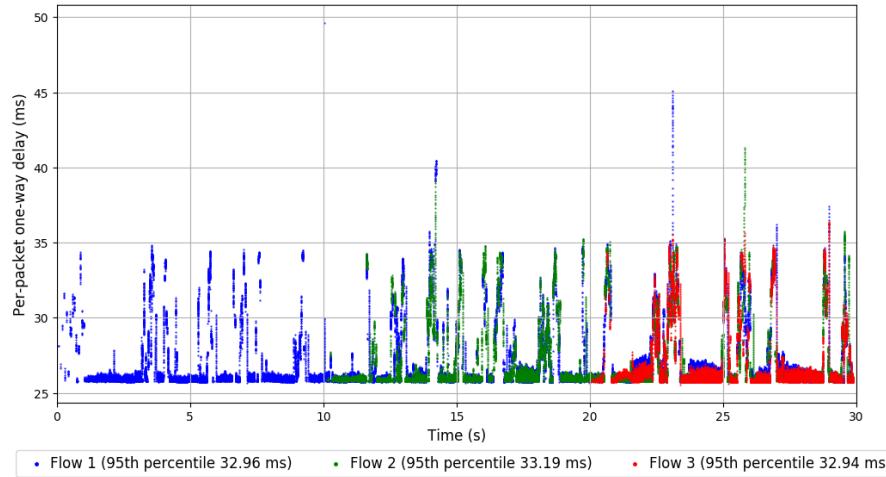
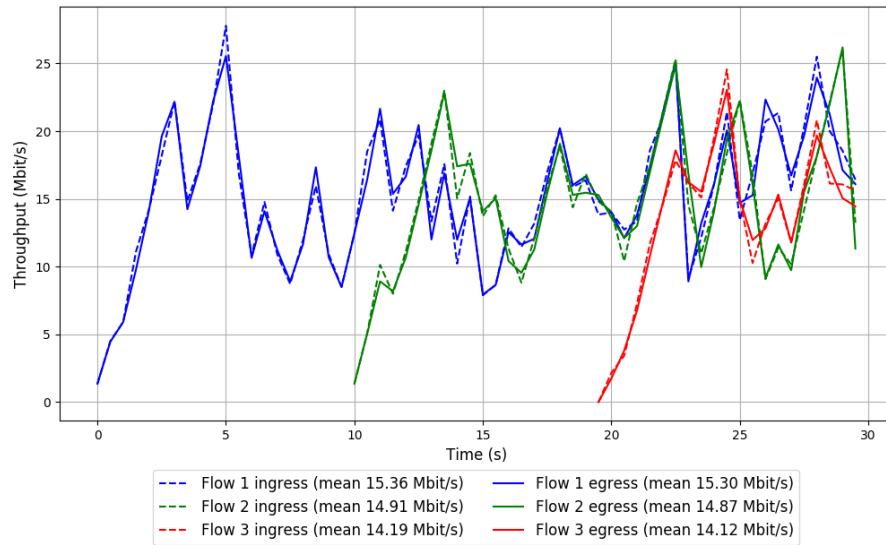


Run 9: Statistics of LEDBAT

```
Start at: 2018-01-17 02:47:33
End at: 2018-01-17 02:48:03
Local clock offset: -0.412 ms
Remote clock offset: -3.733 ms

# Below is generated by plot.py at 2018-01-17 07:48:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 29.84 Mbit/s
95th percentile per-packet one-way delay: 33.037 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 15.30 Mbit/s
95th percentile per-packet one-way delay: 32.958 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 14.87 Mbit/s
95th percentile per-packet one-way delay: 33.185 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 14.12 Mbit/s
95th percentile per-packet one-way delay: 32.941 ms
Loss rate: 1.02%
```

Run 9: Report of LEDBAT — Data Link

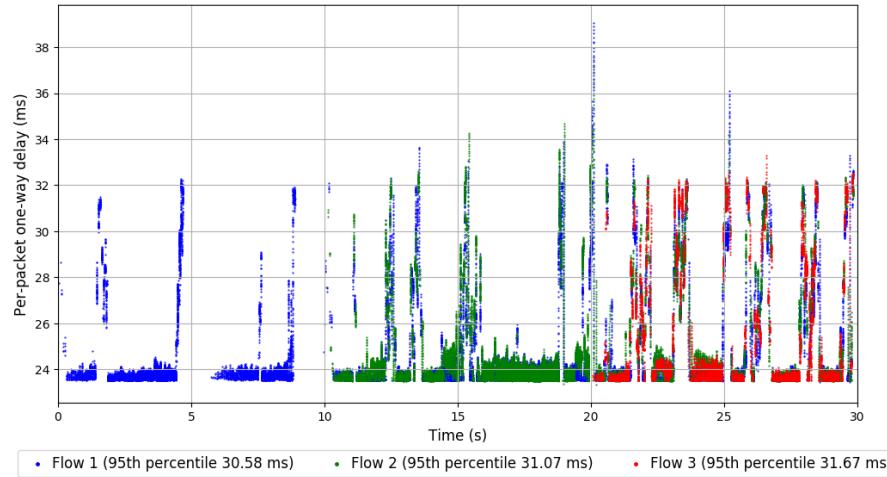
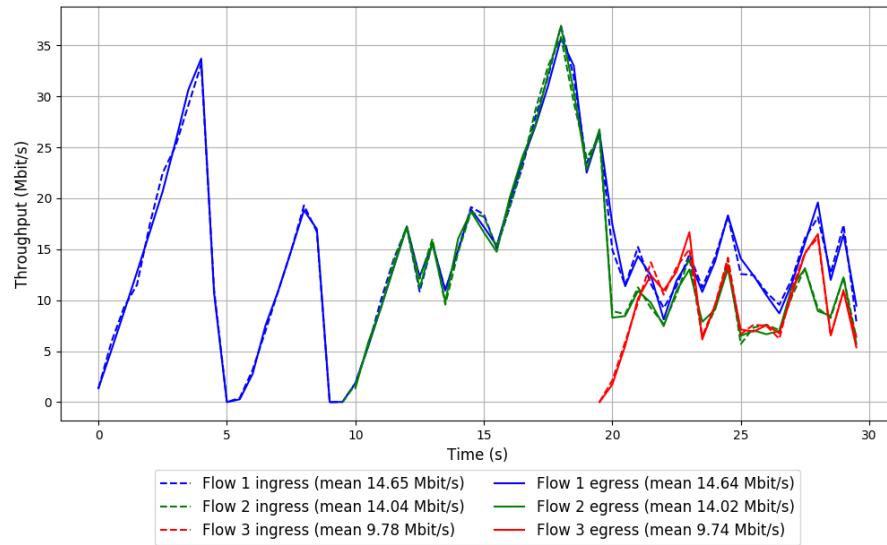


Run 10: Statistics of LEDBAT

```
Start at: 2018-01-17 03:12:41
End at: 2018-01-17 03:13:11
Local clock offset: -0.742 ms
Remote clock offset: -1.982 ms

# Below is generated by plot.py at 2018-01-17 07:48:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 27.20 Mbit/s
95th percentile per-packet one-way delay: 31.035 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 14.64 Mbit/s
95th percentile per-packet one-way delay: 30.576 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 14.02 Mbit/s
95th percentile per-packet one-way delay: 31.071 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 9.74 Mbit/s
95th percentile per-packet one-way delay: 31.666 ms
Loss rate: 1.03%
```

## Run 10: Report of LEDBAT — Data Link

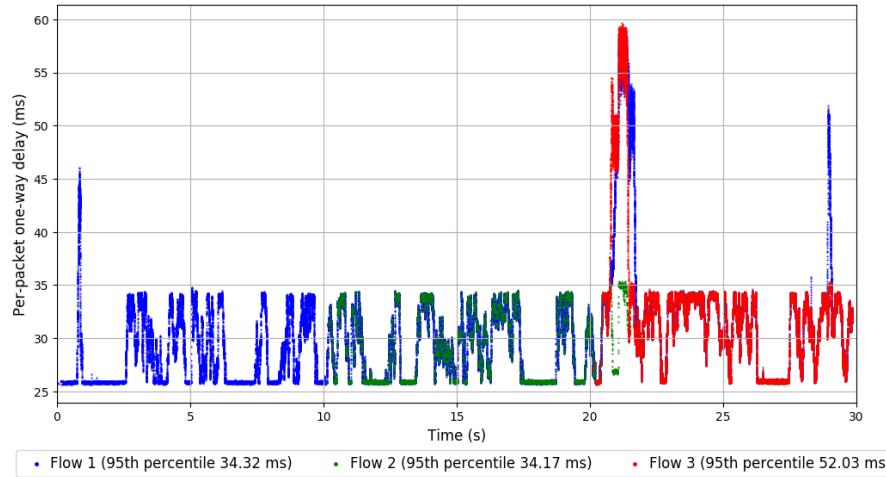
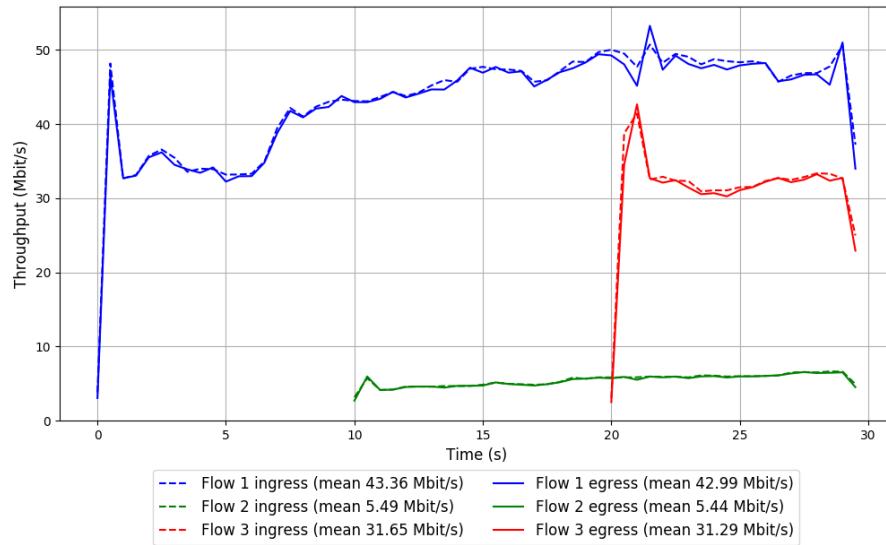


Run 1: Statistics of PCC

```
Start at: 2018-01-16 23:08:35
End at: 2018-01-16 23:09:05
Local clock offset: 0.818 ms
Remote clock offset: -5.671 ms

# Below is generated by plot.py at 2018-01-17 07:48:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 56.89 Mbit/s
95th percentile per-packet one-way delay: 36.789 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 42.99 Mbit/s
95th percentile per-packet one-way delay: 34.320 ms
Loss rate: 1.01%
-- Flow 2:
Average throughput: 5.44 Mbit/s
95th percentile per-packet one-way delay: 34.172 ms
Loss rate: 1.28%
-- Flow 3:
Average throughput: 31.29 Mbit/s
95th percentile per-packet one-way delay: 52.026 ms
Loss rate: 1.72%
```

## Run 1: Report of PCC — Data Link

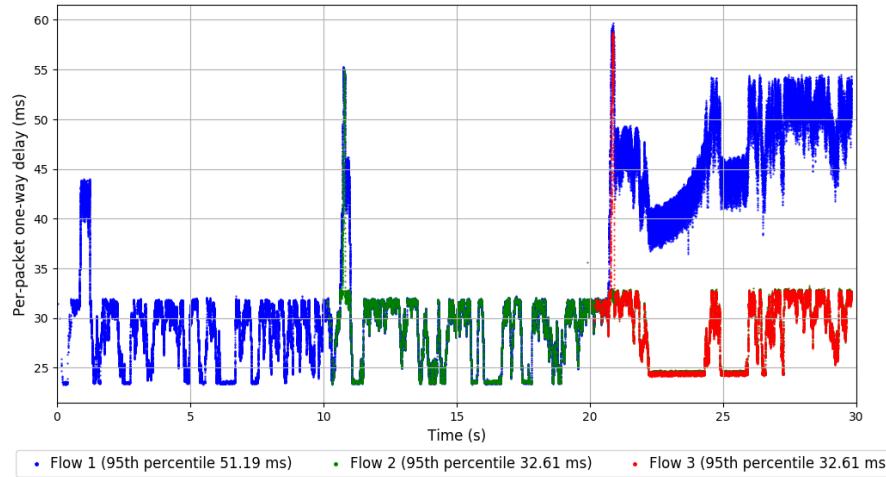
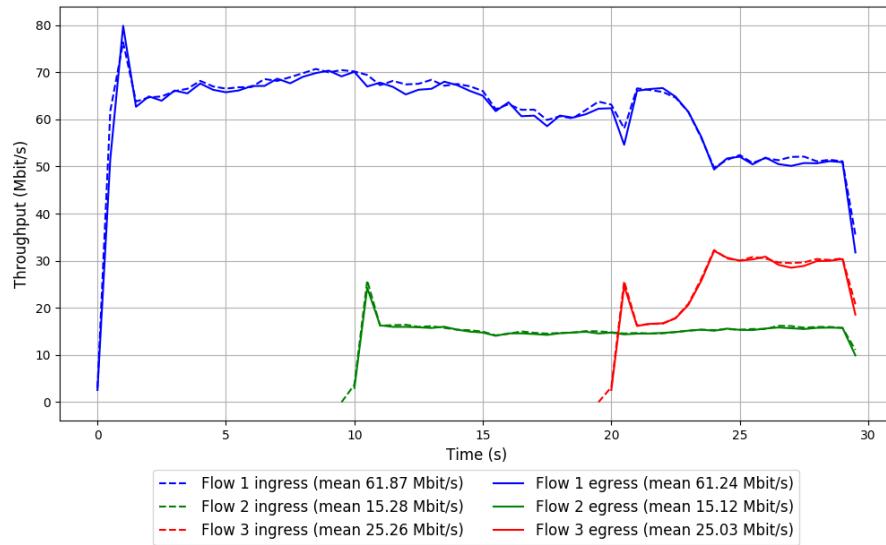


Run 2: Statistics of PCC

```
Start at: 2018-01-16 23:35:06
End at: 2018-01-16 23:35:36
Local clock offset: 0.823 ms
Remote clock offset: -2.327 ms

# Below is generated by plot.py at 2018-01-17 07:48:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.52 Mbit/s
95th percentile per-packet one-way delay: 50.534 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 61.24 Mbit/s
95th percentile per-packet one-way delay: 51.192 ms
Loss rate: 1.24%
-- Flow 2:
Average throughput: 15.12 Mbit/s
95th percentile per-packet one-way delay: 32.613 ms
Loss rate: 1.39%
-- Flow 3:
Average throughput: 25.03 Mbit/s
95th percentile per-packet one-way delay: 32.608 ms
Loss rate: 1.55%
```

## Run 2: Report of PCC — Data Link

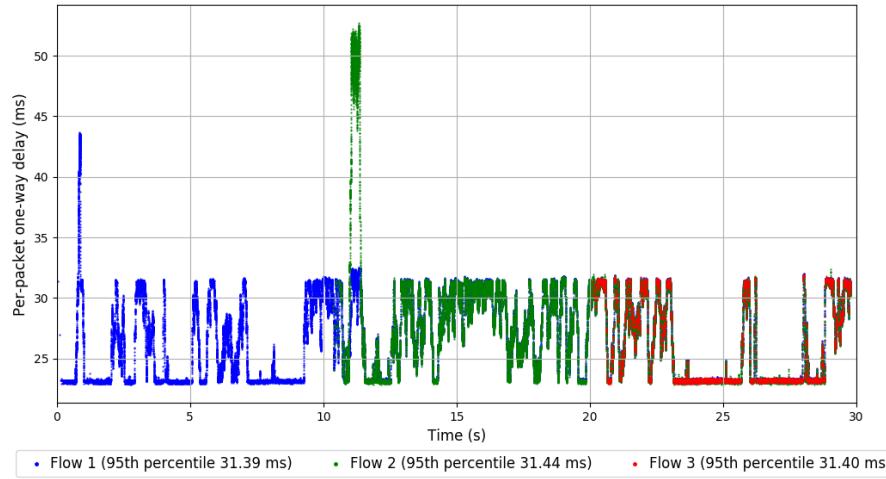
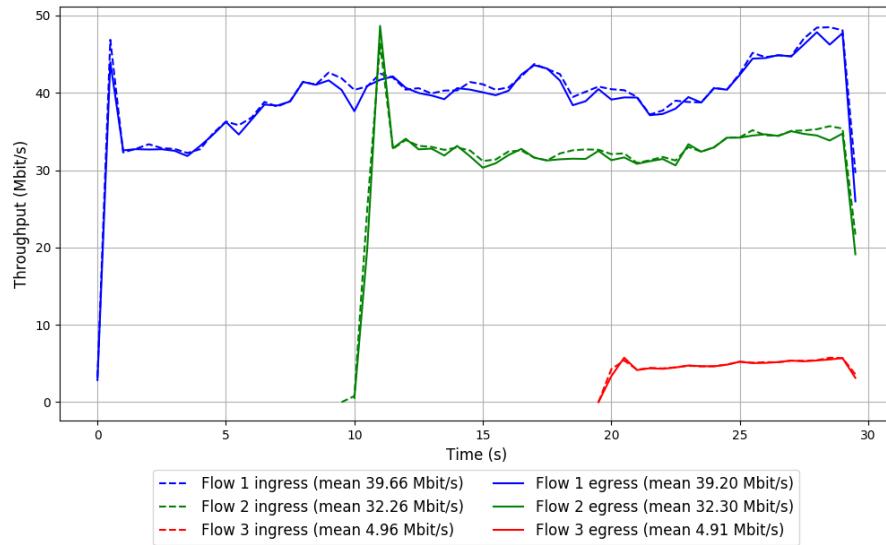


Run 3: Statistics of PCC

```
Start at: 2018-01-17 00:02:01
End at: 2018-01-17 00:02:31
Local clock offset: 0.773 ms
Remote clock offset: -1.154 ms

# Below is generated by plot.py at 2018-01-17 07:48:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 62.05 Mbit/s
95th percentile per-packet one-way delay: 31.406 ms
Loss rate: 1.39%
-- Flow 1:
Average throughput: 39.20 Mbit/s
95th percentile per-packet one-way delay: 31.393 ms
Loss rate: 1.35%
-- Flow 2:
Average throughput: 32.30 Mbit/s
95th percentile per-packet one-way delay: 31.442 ms
Loss rate: 1.46%
-- Flow 3:
Average throughput: 4.91 Mbit/s
95th percentile per-packet one-way delay: 31.402 ms
Loss rate: 1.64%
```

### Run 3: Report of PCC — Data Link

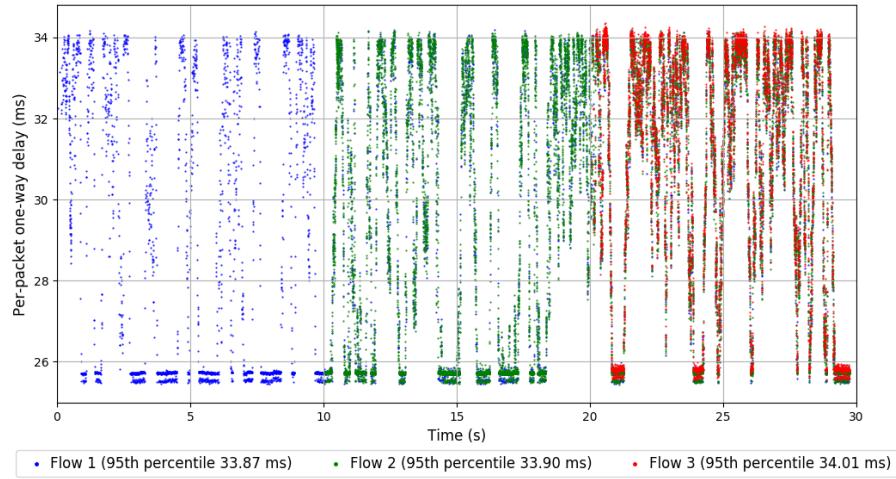
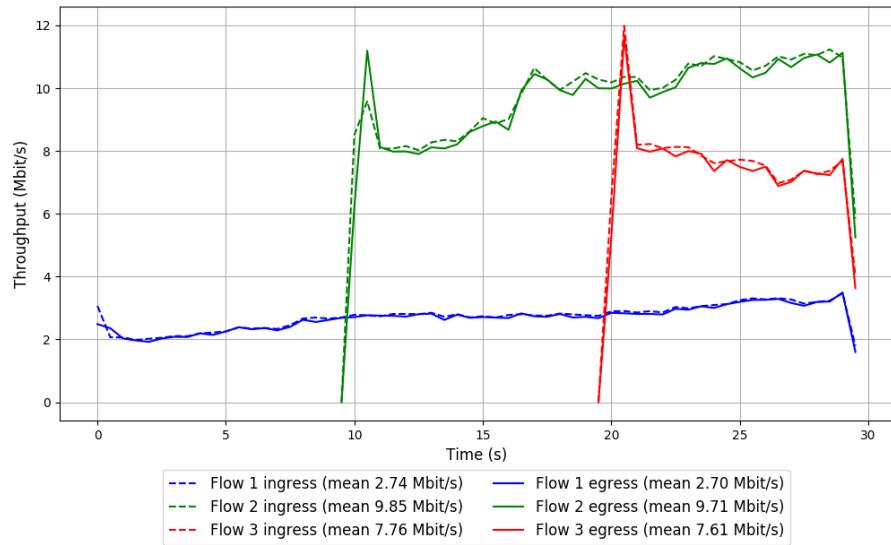


Run 4: Statistics of PCC

```
Start at: 2018-01-17 00:29:27
End at: 2018-01-17 00:29:57
Local clock offset: 0.471 ms
Remote clock offset: -3.388 ms

# Below is generated by plot.py at 2018-01-17 07:48:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.70 Mbit/s
95th percentile per-packet one-way delay: 33.918 ms
Loss rate: 1.83%
-- Flow 1:
Average throughput: 2.70 Mbit/s
95th percentile per-packet one-way delay: 33.874 ms
Loss rate: 1.68%
-- Flow 2:
Average throughput: 9.71 Mbit/s
95th percentile per-packet one-way delay: 33.895 ms
Loss rate: 1.65%
-- Flow 3:
Average throughput: 7.61 Mbit/s
95th percentile per-packet one-way delay: 34.013 ms
Loss rate: 2.44%
```

## Run 4: Report of PCC — Data Link

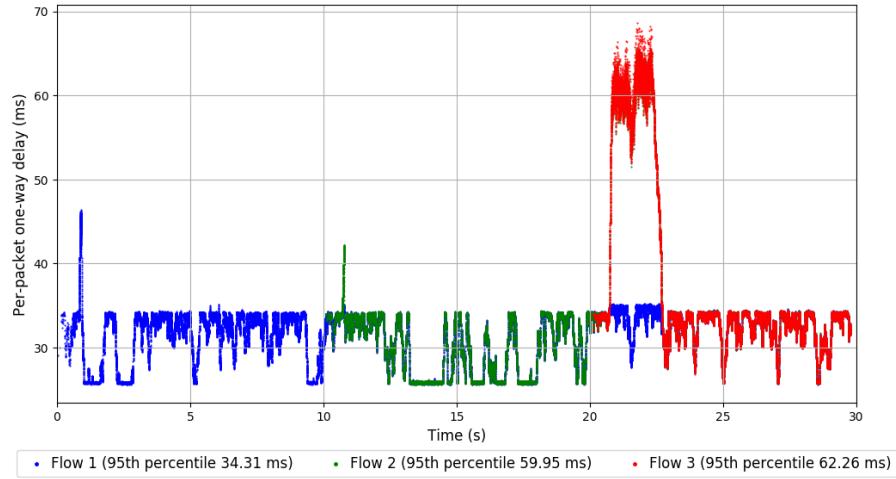
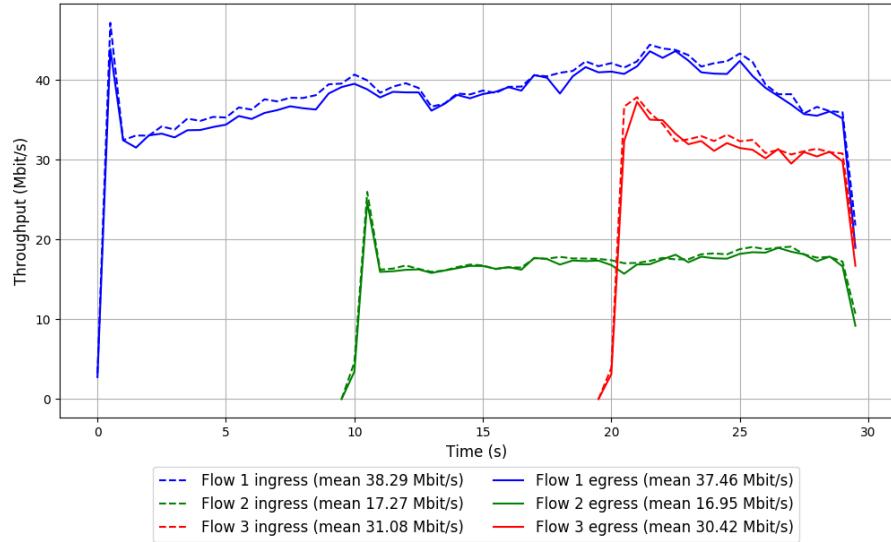


Run 5: Statistics of PCC

```
Start at: 2018-01-17 00:57:49
End at: 2018-01-17 00:58:19
Local clock offset: 0.269 ms
Remote clock offset: -3.711 ms

# Below is generated by plot.py at 2018-01-17 07:49:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 58.76 Mbit/s
95th percentile per-packet one-way delay: 53.518 ms
Loss rate: 2.37%
-- Flow 1:
Average throughput: 37.46 Mbit/s
95th percentile per-packet one-way delay: 34.308 ms
Loss rate: 2.33%
-- Flow 2:
Average throughput: 16.95 Mbit/s
95th percentile per-packet one-way delay: 59.945 ms
Loss rate: 2.17%
-- Flow 3:
Average throughput: 30.42 Mbit/s
95th percentile per-packet one-way delay: 62.256 ms
Loss rate: 2.72%
```

## Run 5: Report of PCC — Data Link

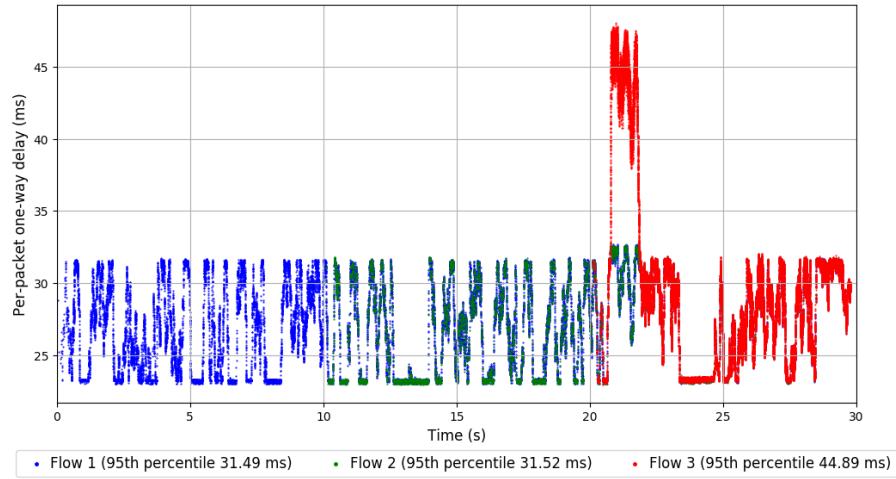
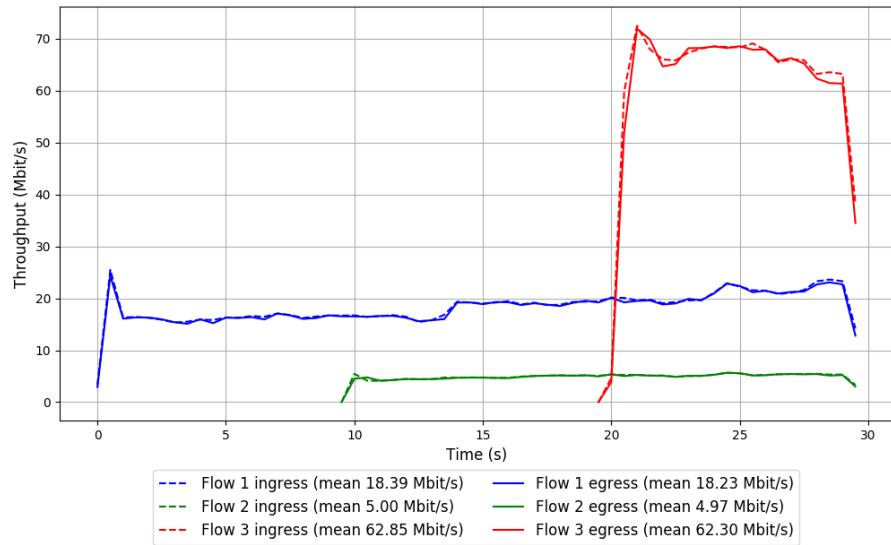


Run 6: Statistics of PCC

```
Start at: 2018-01-17 01:24:35
End at: 2018-01-17 01:25:05
Local clock offset: -0.108 ms
Remote clock offset: -1.166 ms

# Below is generated by plot.py at 2018-01-17 07:49:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 42.06 Mbit/s
95th percentile per-packet one-way delay: 41.187 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 18.23 Mbit/s
95th percentile per-packet one-way delay: 31.487 ms
Loss rate: 1.05%
-- Flow 2:
Average throughput: 4.97 Mbit/s
95th percentile per-packet one-way delay: 31.516 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 62.30 Mbit/s
95th percentile per-packet one-way delay: 44.891 ms
Loss rate: 1.47%
```

## Run 6: Report of PCC — Data Link

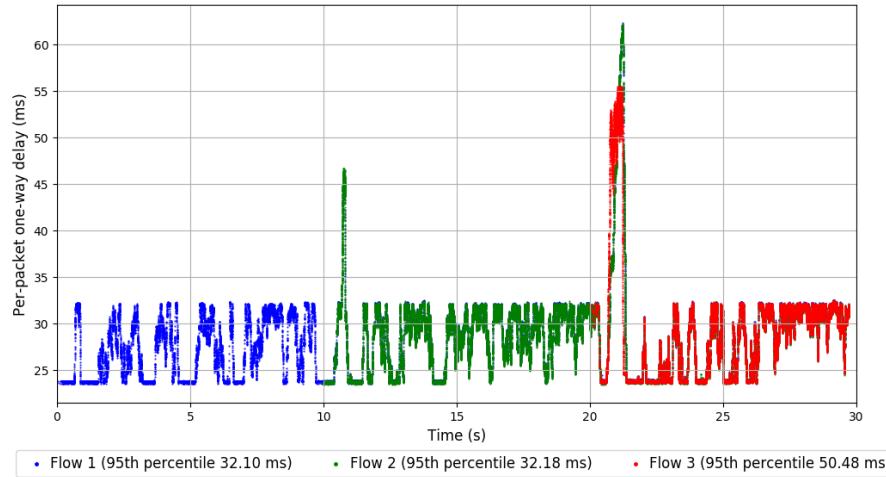
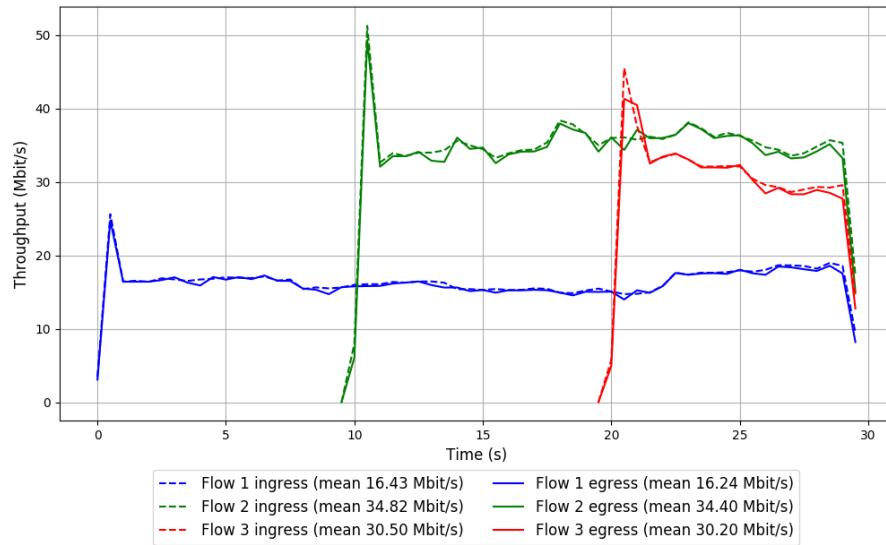


Run 7: Statistics of PCC

```
Start at: 2018-01-17 01:52:09
End at: 2018-01-17 01:52:39
Local clock offset: -0.207 ms
Remote clock offset: -1.616 ms

# Below is generated by plot.py at 2018-01-17 07:49:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.11 Mbit/s
95th percentile per-packet one-way delay: 32.252 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 16.24 Mbit/s
95th percentile per-packet one-way delay: 32.101 ms
Loss rate: 1.34%
-- Flow 2:
Average throughput: 34.40 Mbit/s
95th percentile per-packet one-way delay: 32.178 ms
Loss rate: 1.47%
-- Flow 3:
Average throughput: 30.20 Mbit/s
95th percentile per-packet one-way delay: 50.484 ms
Loss rate: 1.60%
```

## Run 7: Report of PCC — Data Link

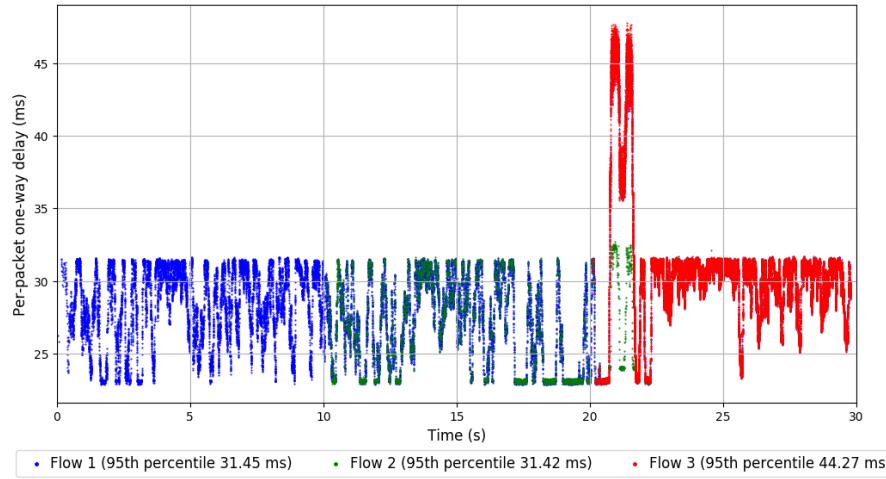
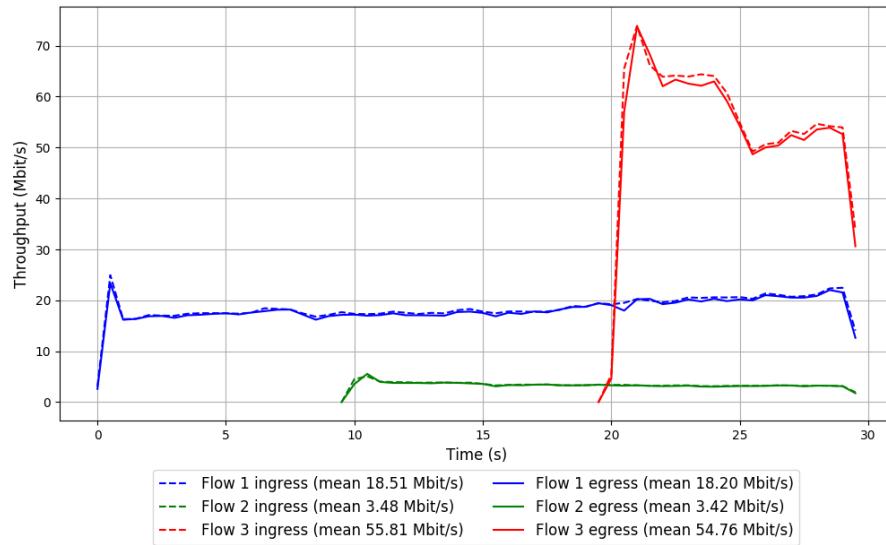


Run 8: Statistics of PCC

```
Start at: 2018-01-17 02:19:09
End at: 2018-01-17 02:19:39
Local clock offset: -0.278 ms
Remote clock offset: -1.073 ms

# Below is generated by plot.py at 2018-01-17 07:49:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 38.52 Mbit/s
95th percentile per-packet one-way delay: 38.305 ms
Loss rate: 2.14%
-- Flow 1:
Average throughput: 18.20 Mbit/s
95th percentile per-packet one-way delay: 31.450 ms
Loss rate: 1.87%
-- Flow 2:
Average throughput: 3.42 Mbit/s
95th percentile per-packet one-way delay: 31.418 ms
Loss rate: 2.12%
-- Flow 3:
Average throughput: 54.76 Mbit/s
95th percentile per-packet one-way delay: 44.273 ms
Loss rate: 2.41%
```

## Run 8: Report of PCC — Data Link

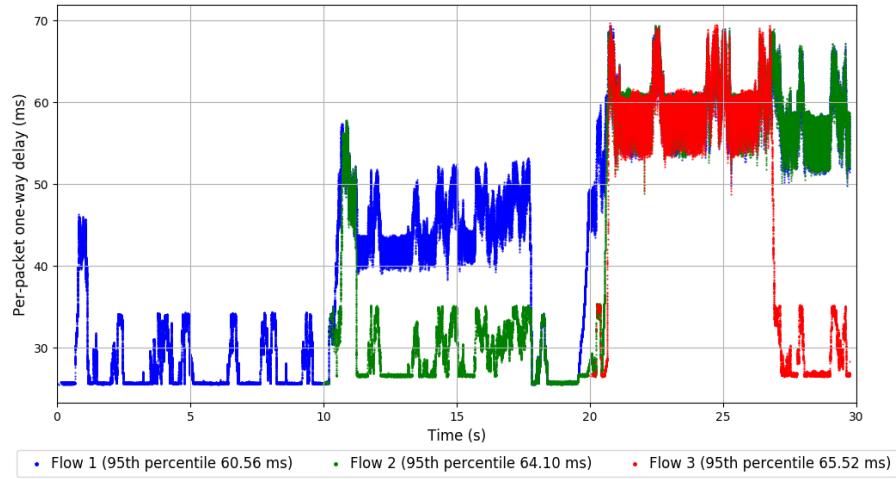
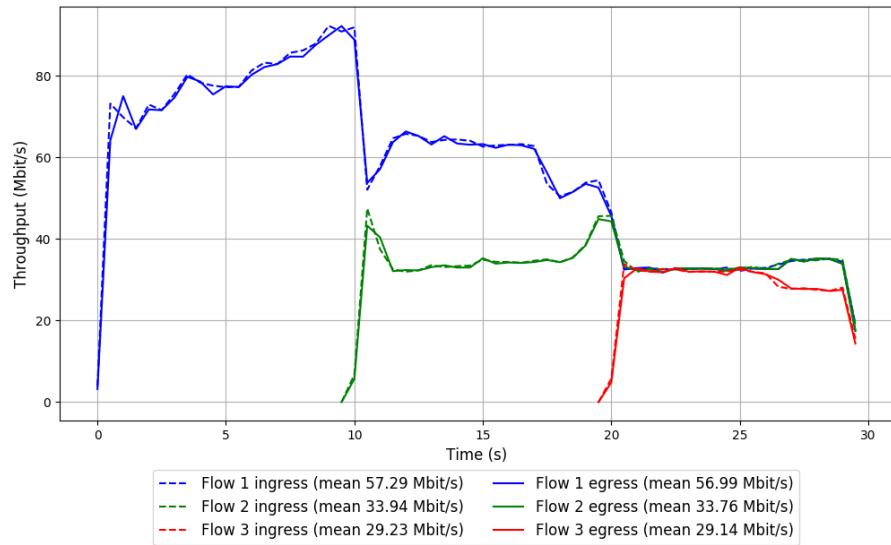


Run 9: Statistics of PCC

```
Start at: 2018-01-17 02:46:08
End at: 2018-01-17 02:46:38
Local clock offset: -0.538 ms
Remote clock offset: -3.748 ms

# Below is generated by plot.py at 2018-01-17 07:49:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.10 Mbit/s
95th percentile per-packet one-way delay: 62.771 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 56.99 Mbit/s
95th percentile per-packet one-way delay: 60.560 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 33.76 Mbit/s
95th percentile per-packet one-way delay: 64.103 ms
Loss rate: 0.87%
-- Flow 3:
Average throughput: 29.14 Mbit/s
95th percentile per-packet one-way delay: 65.521 ms
Loss rate: 0.83%
```

Run 9: Report of PCC — Data Link

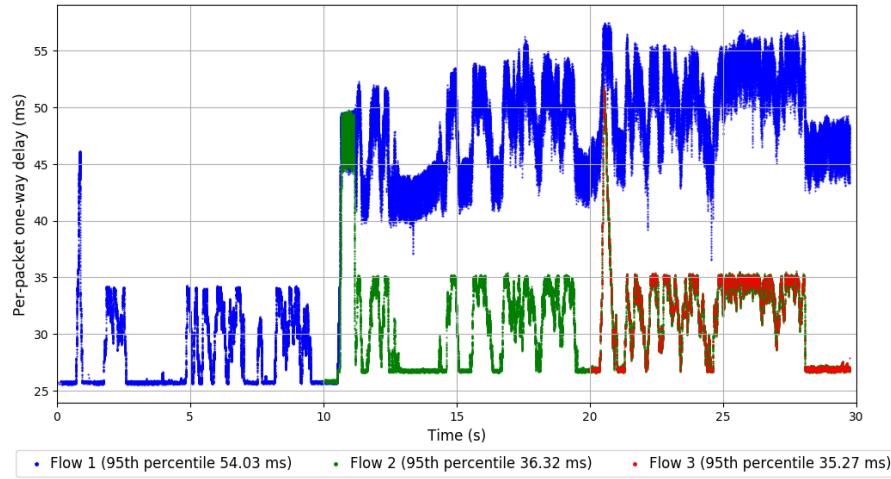
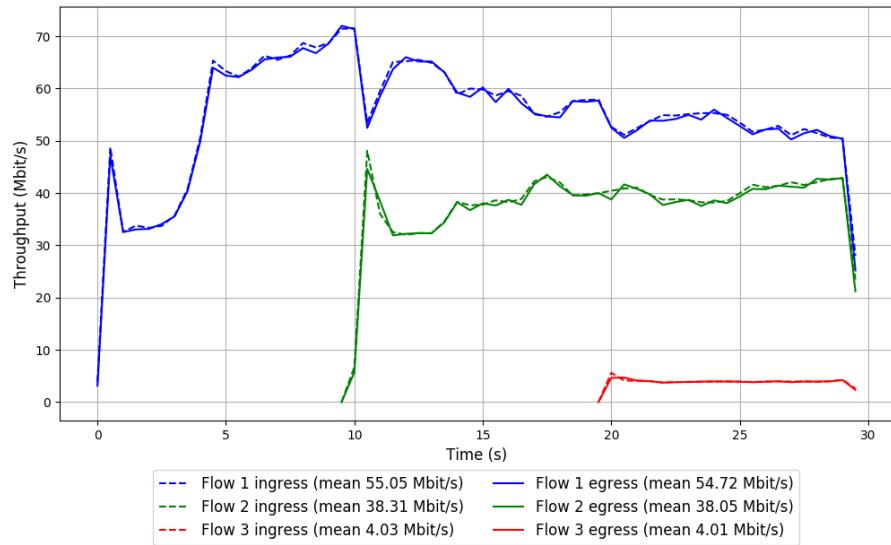


Run 10: Statistics of PCC

```
Start at: 2018-01-17 03:11:18
End at: 2018-01-17 03:11:48
Local clock offset: -0.615 ms
Remote clock offset: -4.127 ms

# Below is generated by plot.py at 2018-01-17 07:50:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.42 Mbit/s
95th percentile per-packet one-way delay: 53.439 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 54.72 Mbit/s
95th percentile per-packet one-way delay: 54.034 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 38.05 Mbit/s
95th percentile per-packet one-way delay: 36.317 ms
Loss rate: 0.93%
-- Flow 3:
Average throughput: 4.01 Mbit/s
95th percentile per-packet one-way delay: 35.271 ms
Loss rate: 1.19%
```

Run 10: Report of PCC — Data Link

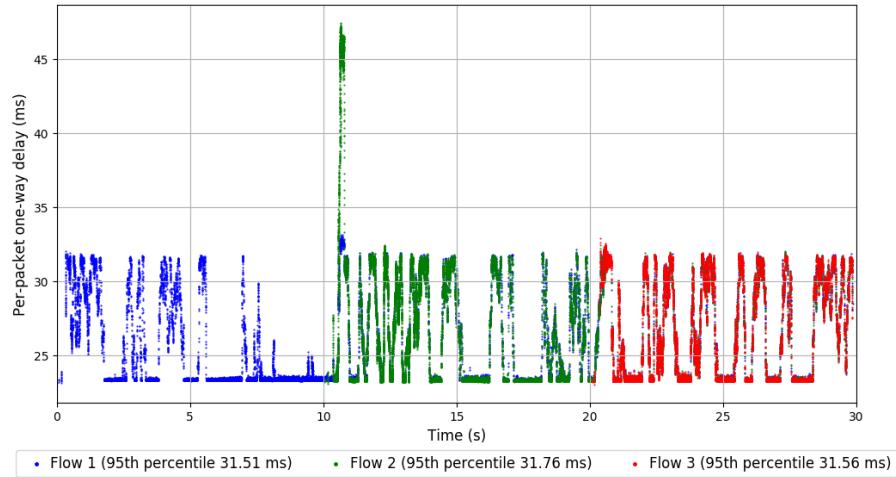
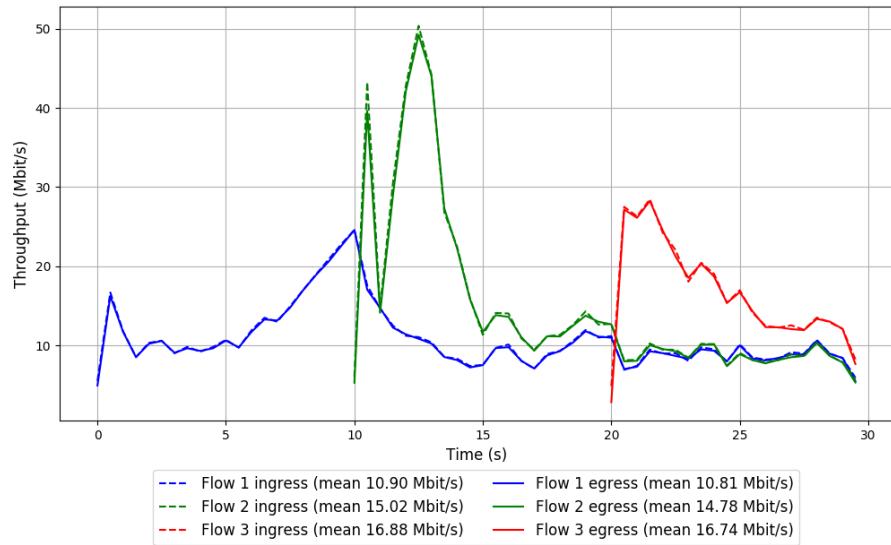


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-01-16 23:14:18
End at: 2018-01-16 23:14:48
Local clock offset: 0.827 ms
Remote clock offset: -2.861 ms

# Below is generated by plot.py at 2018-01-17 07:50:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 26.14 Mbit/s
95th percentile per-packet one-way delay: 31.592 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 10.81 Mbit/s
95th percentile per-packet one-way delay: 31.511 ms
Loss rate: 1.00%
-- Flow 2:
Average throughput: 14.78 Mbit/s
95th percentile per-packet one-way delay: 31.760 ms
Loss rate: 1.89%
-- Flow 3:
Average throughput: 16.74 Mbit/s
95th percentile per-packet one-way delay: 31.561 ms
Loss rate: 1.38%
```

## Run 1: Report of QUIC Cubic — Data Link

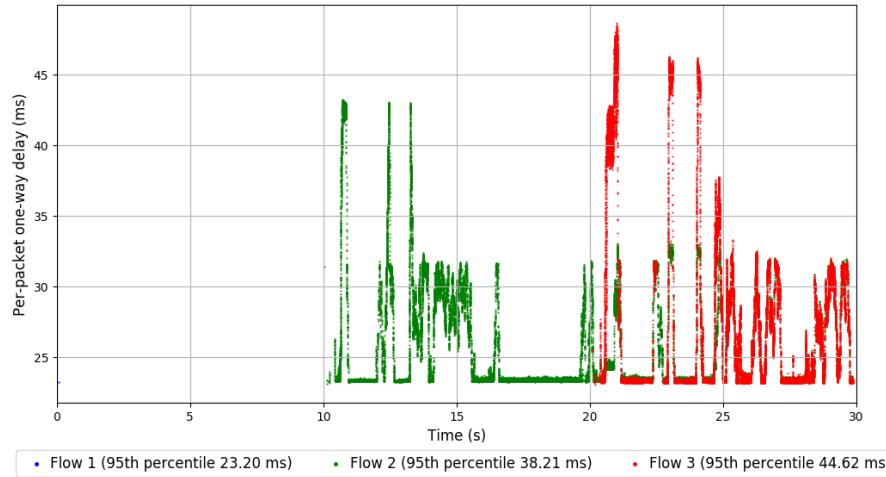
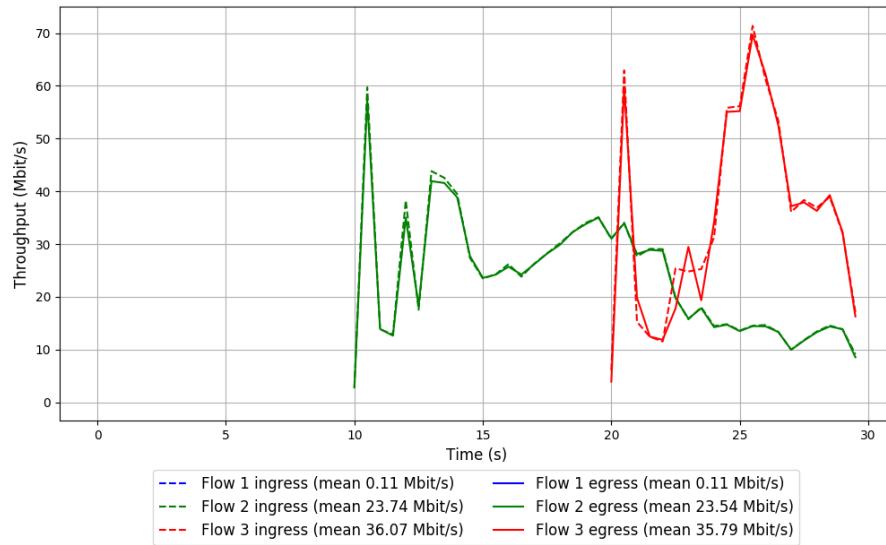


Run 2: Statistics of QUIC Cubic

```
Start at: 2018-01-16 23:41:03
End at: 2018-01-16 23:41:33
Local clock offset: 0.946 ms
Remote clock offset: -1.807 ms

# Below is generated by plot.py at 2018-01-17 07:50:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 27.40 Mbit/s
95th percentile per-packet one-way delay: 42.264 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 23.204 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 23.54 Mbit/s
95th percentile per-packet one-way delay: 38.213 ms
Loss rate: 1.16%
-- Flow 3:
Average throughput: 35.79 Mbit/s
95th percentile per-packet one-way delay: 44.623 ms
Loss rate: 1.39%
```

## Run 2: Report of QUIC Cubic — Data Link

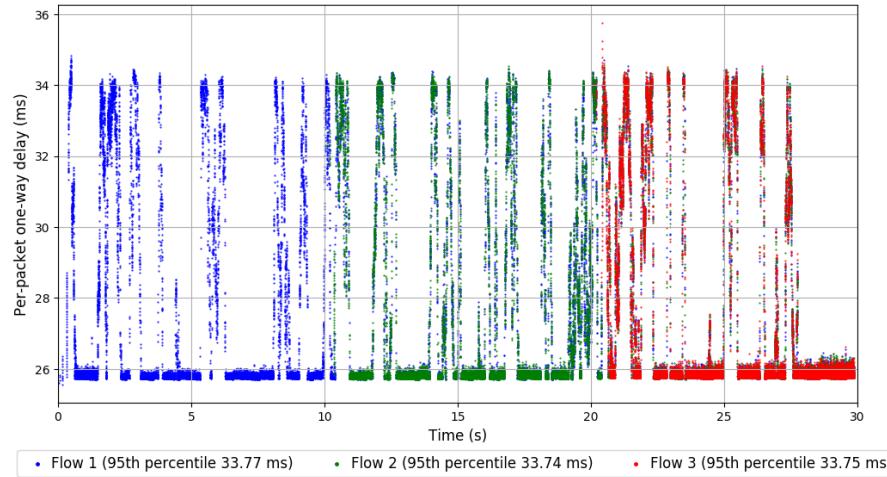
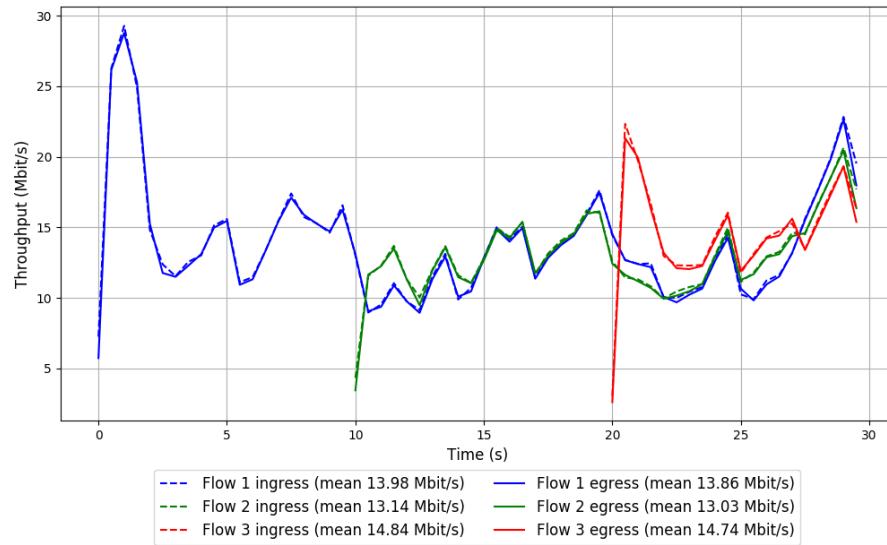


```
Run 3: Statistics of QUIC Cubic
```

```
Start at: 2018-01-17 00:07:48
End at: 2018-01-17 00:08:18
Local clock offset: 0.73 ms
Remote clock offset: -3.658 ms

# Below is generated by plot.py at 2018-01-17 07:50:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 27.37 Mbit/s
95th percentile per-packet one-way delay: 33.759 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 13.86 Mbit/s
95th percentile per-packet one-way delay: 33.767 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 13.03 Mbit/s
95th percentile per-packet one-way delay: 33.742 ms
Loss rate: 1.14%
-- Flow 3:
Average throughput: 14.74 Mbit/s
95th percentile per-packet one-way delay: 33.752 ms
Loss rate: 1.26%
```

### Run 3: Report of QUIC Cubic — Data Link

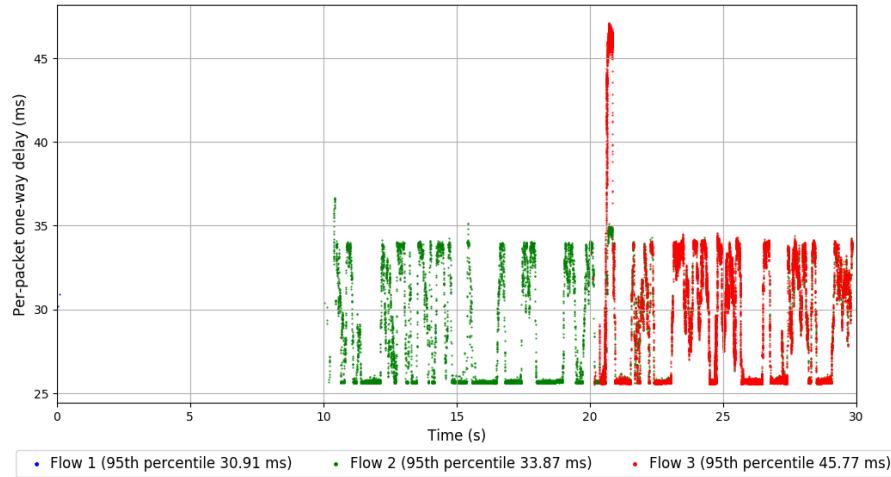
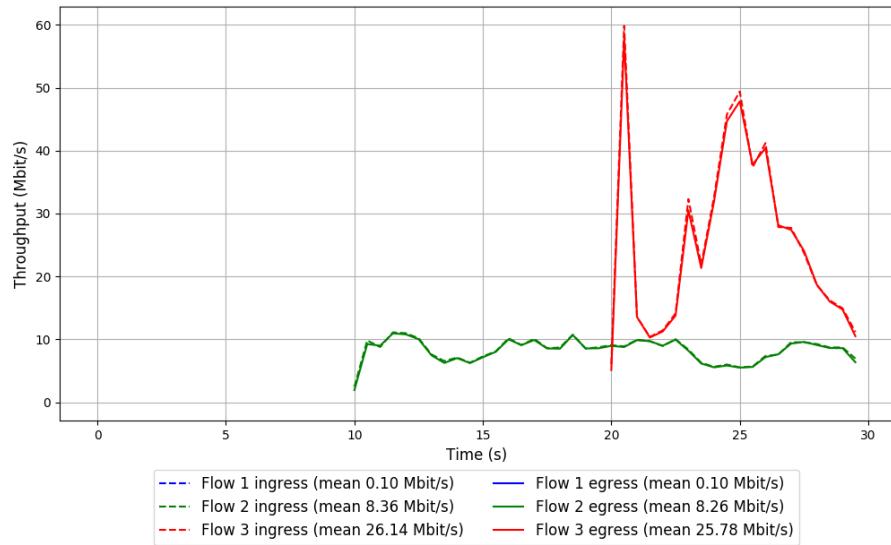


Run 4: Statistics of QUIC Cubic

```
Start at: 2018-01-17 00:35:09
End at: 2018-01-17 00:35:39
Local clock offset: 0.322 ms
Remote clock offset: -3.339 ms

# Below is generated by plot.py at 2018-01-17 07:50:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.97 Mbit/s
95th percentile per-packet one-way delay: 34.936 ms
Loss rate: 1.82%
-- Flow 1:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 30.911 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 8.26 Mbit/s
95th percentile per-packet one-way delay: 33.871 ms
Loss rate: 1.55%
-- Flow 3:
Average throughput: 25.78 Mbit/s
95th percentile per-packet one-way delay: 45.766 ms
Loss rate: 1.99%
```

## Run 4: Report of QUIC Cubic — Data Link

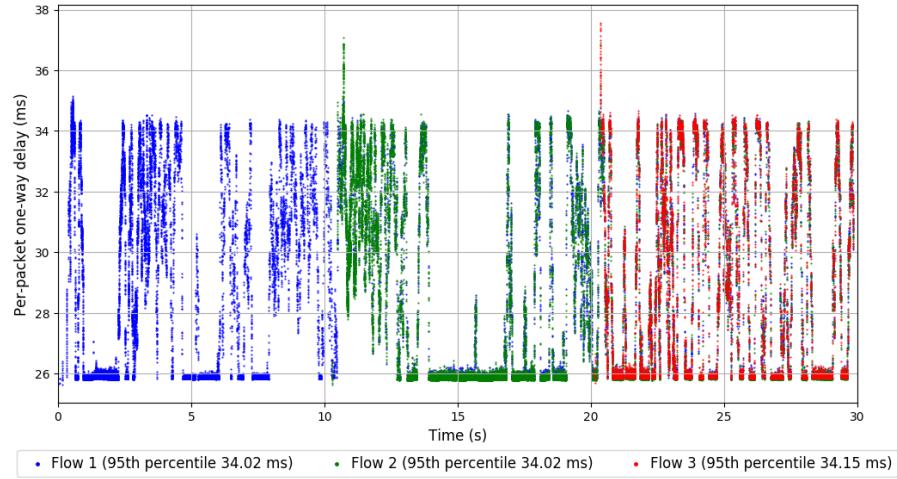
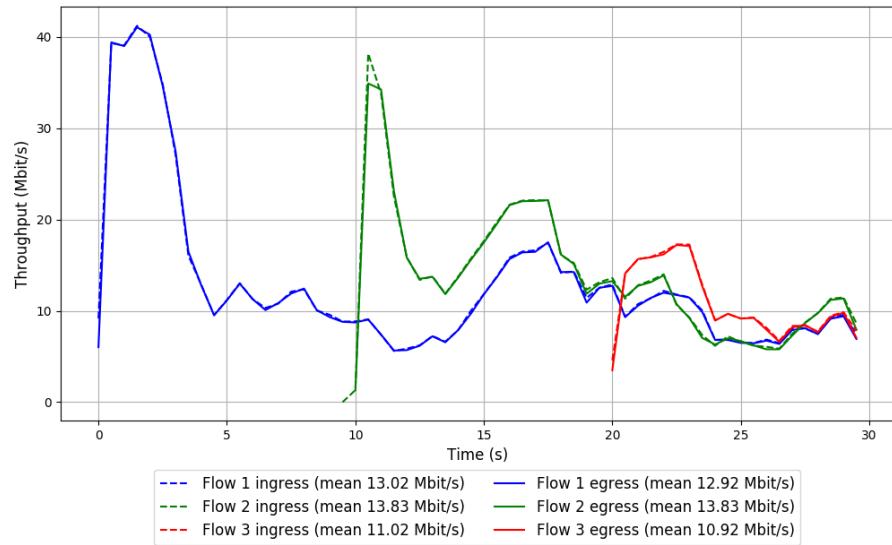


Run 5: Statistics of QUIC Cubic

```
Start at: 2018-01-17 01:03:40
End at: 2018-01-17 01:04:10
Local clock offset: 0.187 ms
Remote clock offset: -3.821 ms

# Below is generated by plot.py at 2018-01-17 07:50:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 25.64 Mbit/s
95th percentile per-packet one-way delay: 34.040 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 12.92 Mbit/s
95th percentile per-packet one-way delay: 34.015 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 13.83 Mbit/s
95th percentile per-packet one-way delay: 34.022 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 10.92 Mbit/s
95th percentile per-packet one-way delay: 34.145 ms
Loss rate: 1.50%
```

## Run 5: Report of QUIC Cubic — Data Link

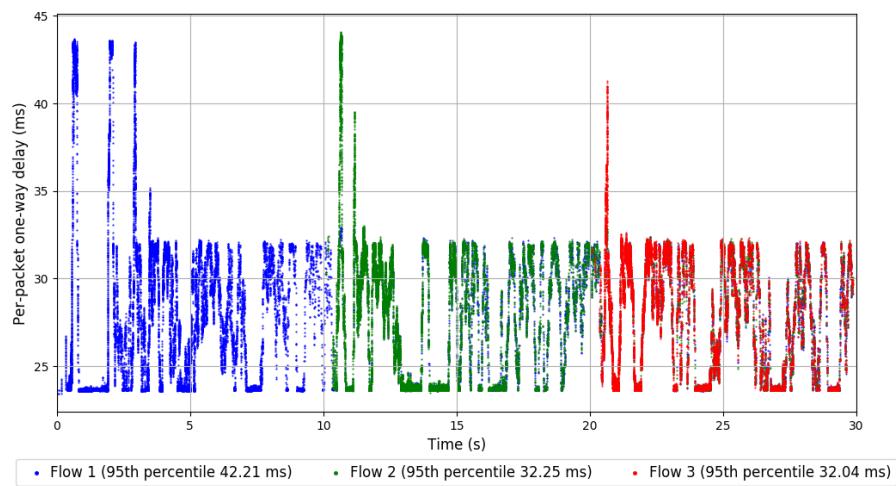
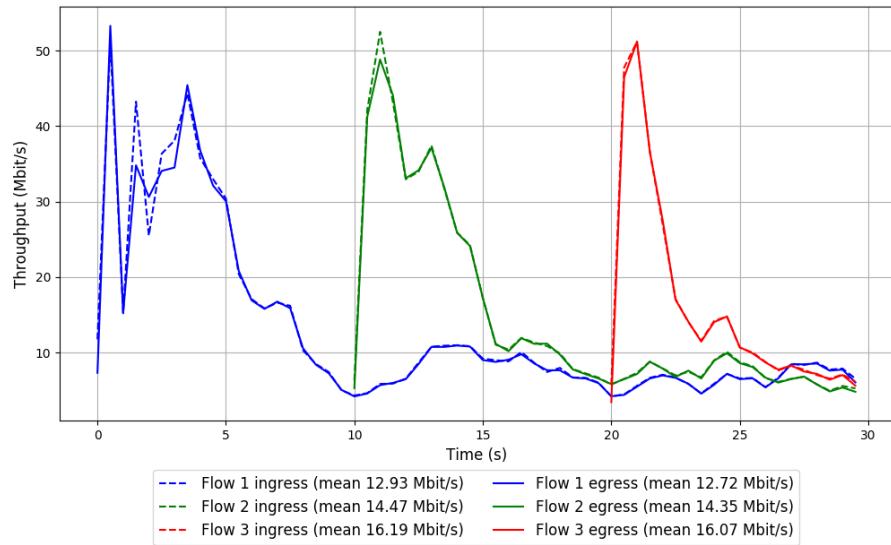


Run 6: Statistics of QUIC Cubic

```
Start at: 2018-01-17 01:30:18
End at: 2018-01-17 01:30:48
Local clock offset: -0.159 ms
Remote clock offset: -1.571 ms

# Below is generated by plot.py at 2018-01-17 07:50:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 27.54 Mbit/s
95th percentile per-packet one-way delay: 36.751 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 12.72 Mbit/s
95th percentile per-packet one-way delay: 42.212 ms
Loss rate: 1.77%
-- Flow 2:
Average throughput: 14.35 Mbit/s
95th percentile per-packet one-way delay: 32.252 ms
Loss rate: 1.16%
-- Flow 3:
Average throughput: 16.07 Mbit/s
95th percentile per-packet one-way delay: 32.039 ms
Loss rate: 1.33%
```

## Run 6: Report of QUIC Cubic — Data Link

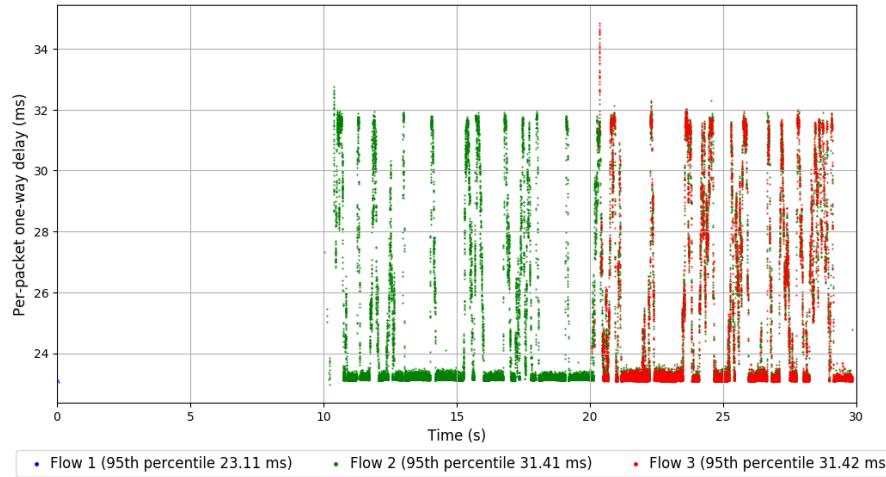
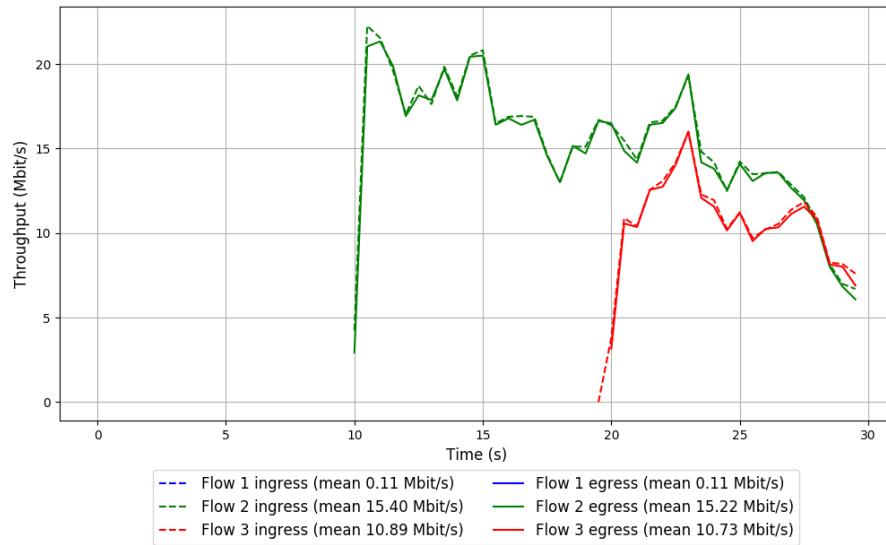


Run 7: Statistics of QUIC Cubic

```
Start at: 2018-01-17 01:57:47
End at: 2018-01-17 01:58:17
Local clock offset: -0.242 ms
Remote clock offset: -1.069 ms

# Below is generated by plot.py at 2018-01-17 07:50:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.65 Mbit/s
95th percentile per-packet one-way delay: 31.411 ms
Loss rate: 1.57%
-- Flow 1:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 23.111 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 15.22 Mbit/s
95th percentile per-packet one-way delay: 31.407 ms
Loss rate: 1.45%
-- Flow 3:
Average throughput: 10.73 Mbit/s
95th percentile per-packet one-way delay: 31.420 ms
Loss rate: 1.93%
```

## Run 7: Report of QUIC Cubic — Data Link

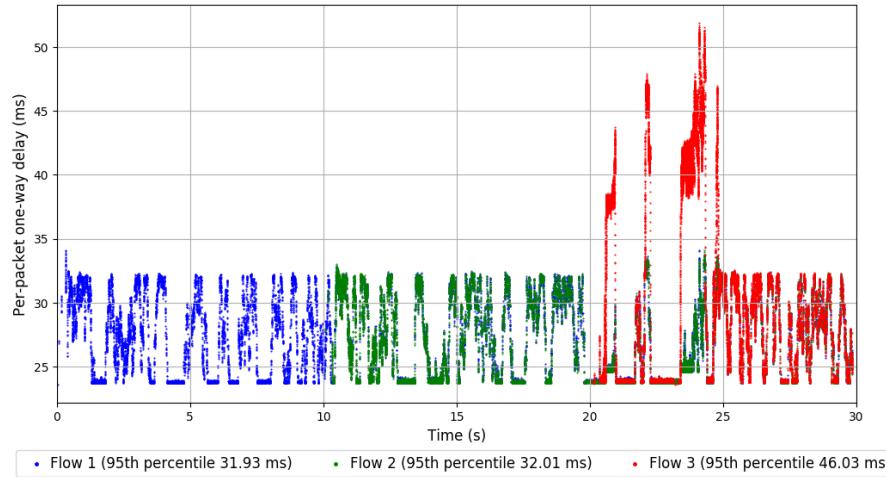
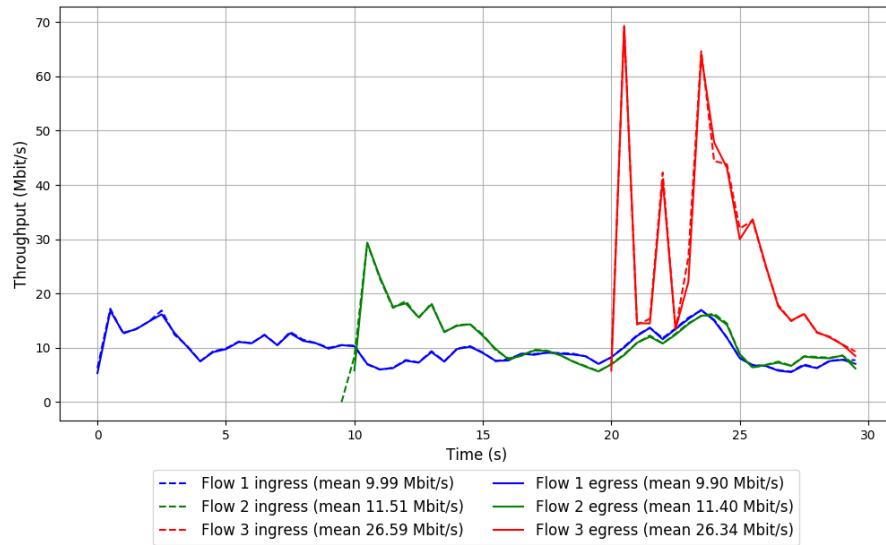


Run 8: Statistics of QUIC Cubic

```
Start at: 2018-01-17 02:24:58
End at: 2018-01-17 02:25:28
Local clock offset: -0.317 ms
Remote clock offset: -1.686 ms

# Below is generated by plot.py at 2018-01-17 07:50:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 26.15 Mbit/s
95th percentile per-packet one-way delay: 42.090 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 9.90 Mbit/s
95th percentile per-packet one-way delay: 31.935 ms
Loss rate: 1.06%
-- Flow 2:
Average throughput: 11.40 Mbit/s
95th percentile per-packet one-way delay: 32.006 ms
Loss rate: 1.22%
-- Flow 3:
Average throughput: 26.34 Mbit/s
95th percentile per-packet one-way delay: 46.027 ms
Loss rate: 1.49%
```

## Run 8: Report of QUIC Cubic — Data Link

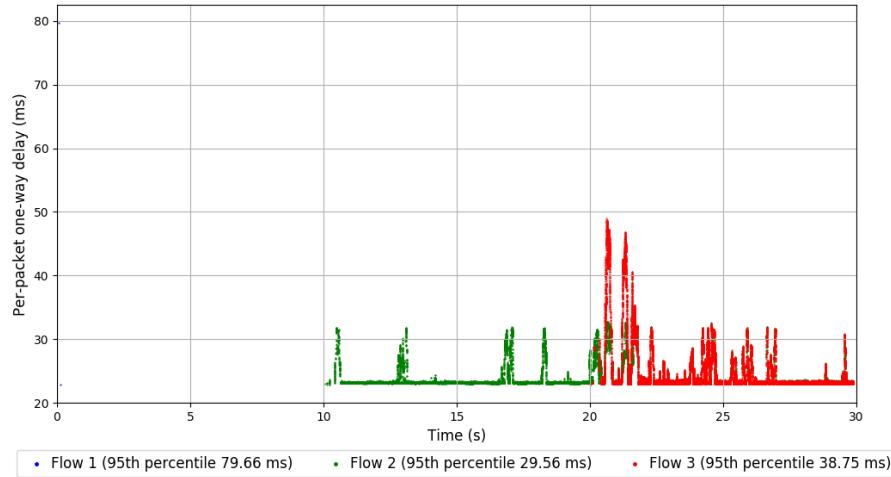
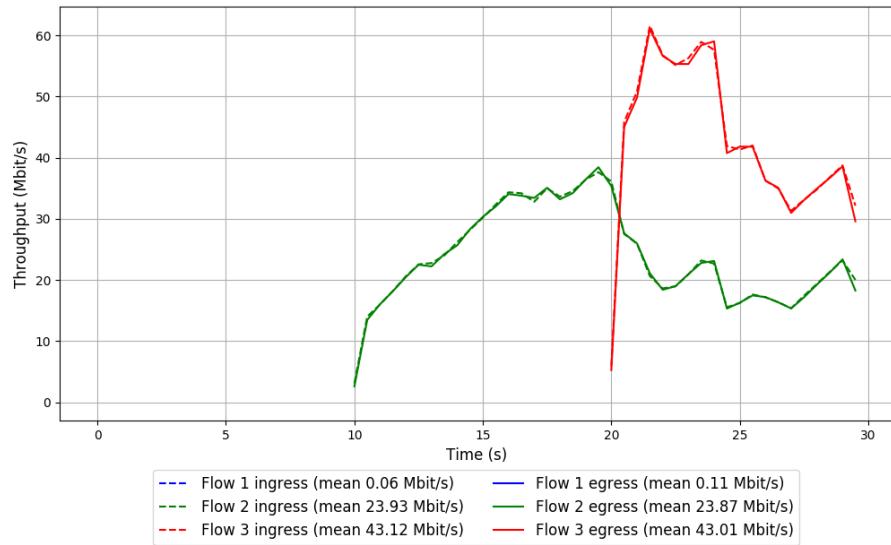


Run 9: Statistics of QUIC Cubic

```
Start at: 2018-01-17 02:51:36
End at: 2018-01-17 02:52:06
Local clock offset: -0.483 ms
Remote clock offset: -1.13 ms

# Below is generated by plot.py at 2018-01-17 07:50:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 30.07 Mbit/s
95th percentile per-packet one-way delay: 31.283 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 79.656 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 23.87 Mbit/s
95th percentile per-packet one-way delay: 29.557 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 43.01 Mbit/s
95th percentile per-packet one-way delay: 38.751 ms
Loss rate: 0.82%
```

## Run 9: Report of QUIC Cubic — Data Link

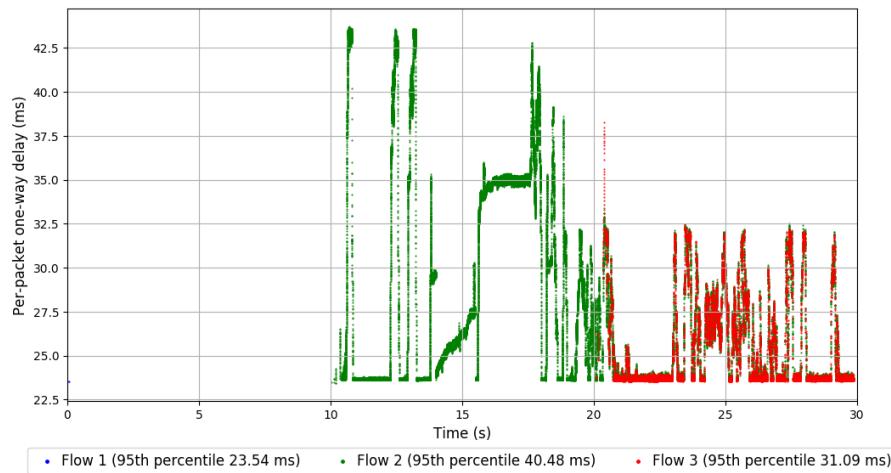
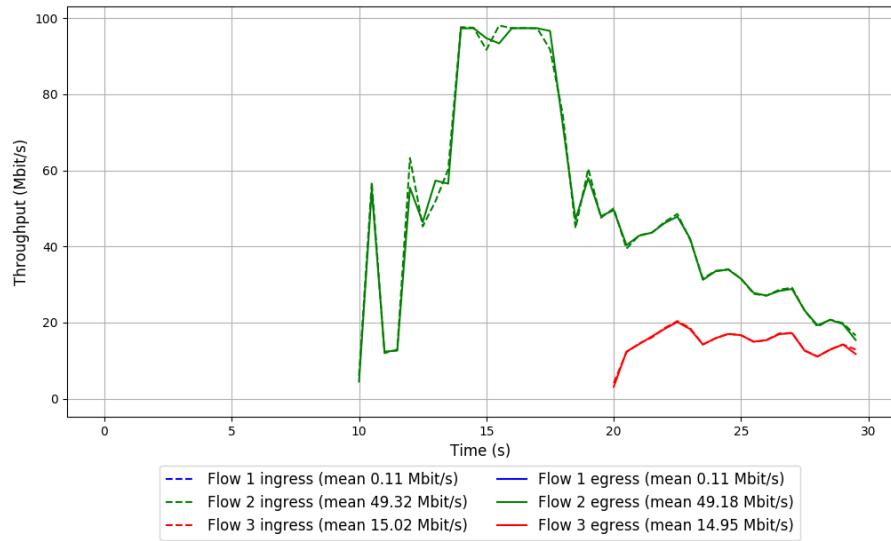


Run 10: Statistics of QUIC Cubic

```
Start at: 2018-01-17 03:16:50
End at: 2018-01-17 03:17:20
Local clock offset: -0.649 ms
Remote clock offset: -1.983 ms

# Below is generated by plot.py at 2018-01-17 07:50:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 37.58 Mbit/s
95th percentile per-packet one-way delay: 39.943 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 23.541 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 49.18 Mbit/s
95th percentile per-packet one-way delay: 40.484 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 14.95 Mbit/s
95th percentile per-packet one-way delay: 31.089 ms
Loss rate: 1.03%
```

Run 10: Report of QUIC Cubic — Data Link

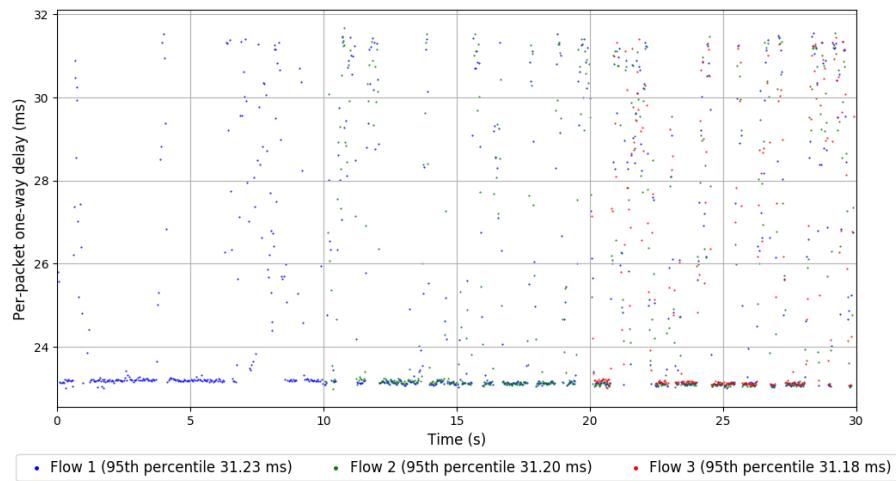
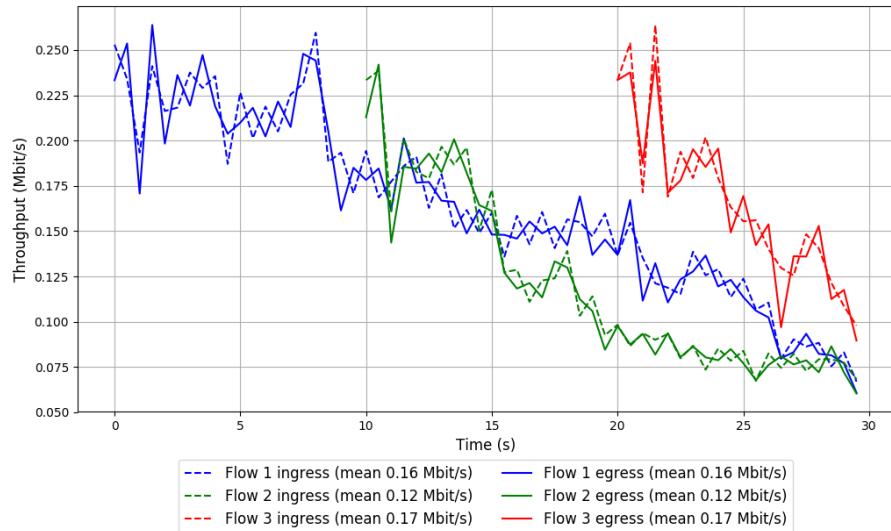


```
Run 1: Statistics of SCReAM

Start at: 2018-01-16 23:17:18
End at: 2018-01-16 23:17:48
Local clock offset: 0.83 ms
Remote clock offset: -2.583 ms

# Below is generated by plot.py at 2018-01-17 07:50:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 31.211 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 31.225 ms
Loss rate: 0.74%
-- Flow 2:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 31.195 ms
Loss rate: 1.73%
-- Flow 3:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 31.181 ms
Loss rate: 1.44%
```

Run 1: Report of SCReAM — Data Link

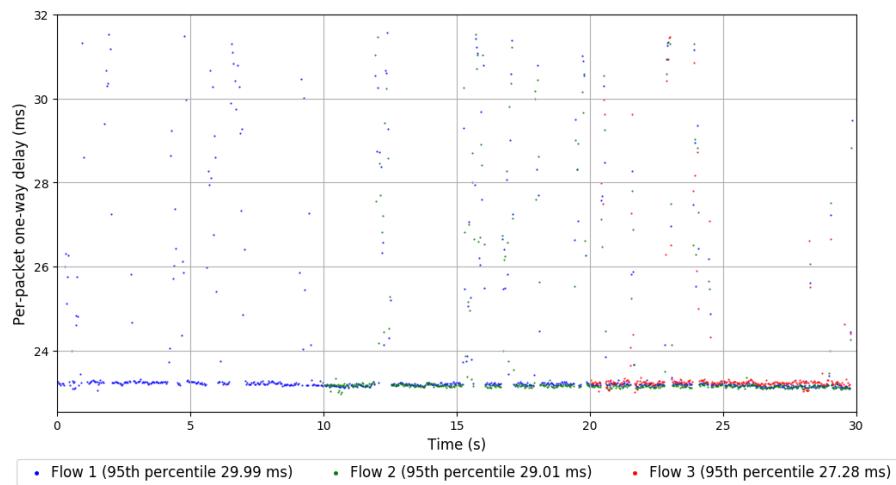
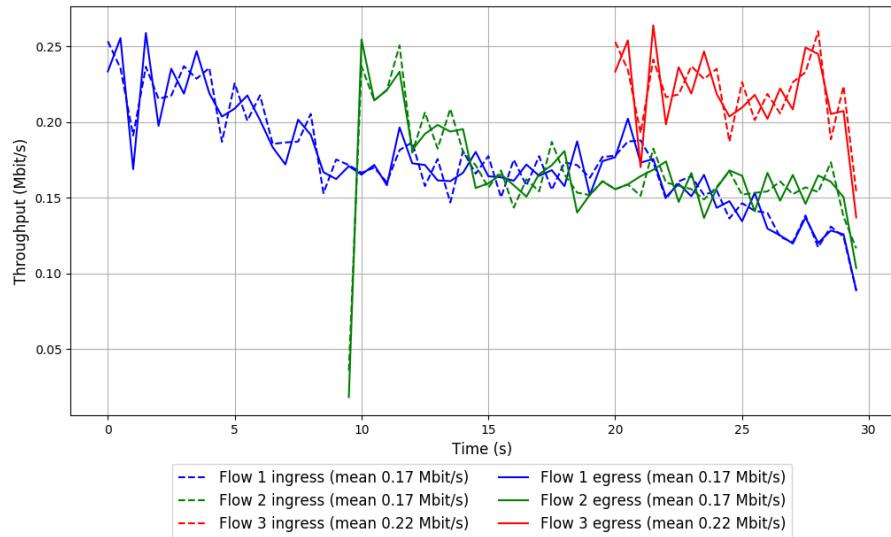


Run 2: Statistics of SCReAM

```
Start at: 2018-01-16 23:43:51
End at: 2018-01-16 23:44:21
Local clock offset: 0.967 ms
Remote clock offset: -1.632 ms

# Below is generated by plot.py at 2018-01-17 07:50:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 29.392 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 29.994 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 29.006 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 27.279 ms
Loss rate: 0.76%
```

Run 2: Report of SCReAM — Data Link

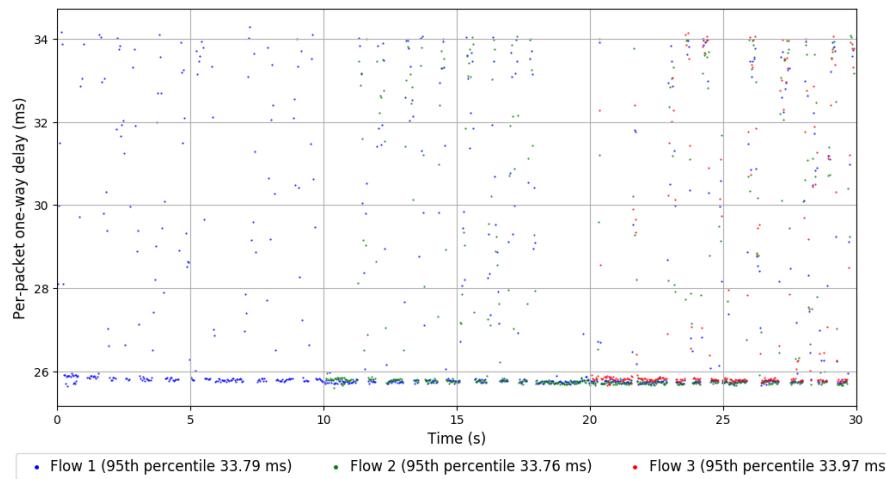
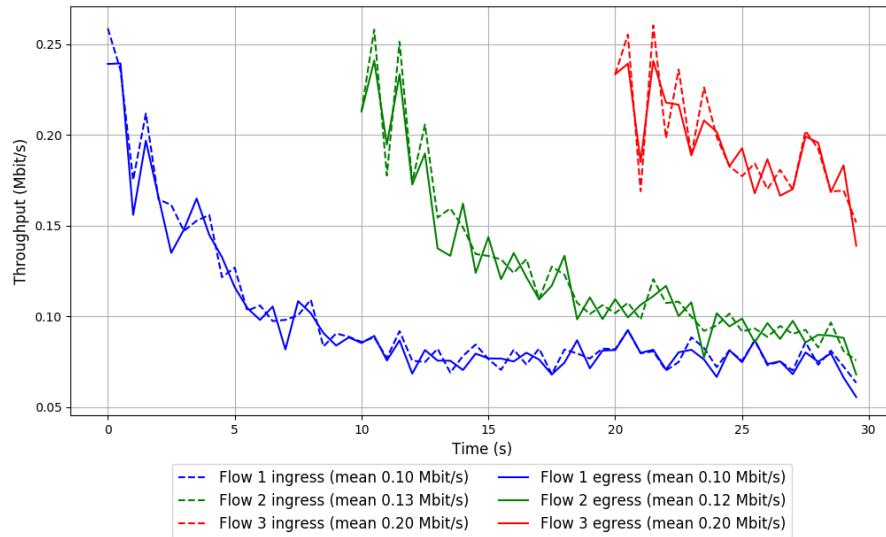


Run 3: Statistics of SCReAM

```
Start at: 2018-01-17 00:10:54
End at: 2018-01-17 00:11:24
Local clock offset: 0.699 ms
Remote clock offset: -3.687 ms

# Below is generated by plot.py at 2018-01-17 07:50:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 33.815 ms
Loss rate: 1.82%
-- Flow 1:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 33.791 ms
Loss rate: 2.47%
-- Flow 2:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 33.761 ms
Loss rate: 1.83%
-- Flow 3:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 33.966 ms
Loss rate: 0.82%
```

Run 3: Report of SCReAM — Data Link

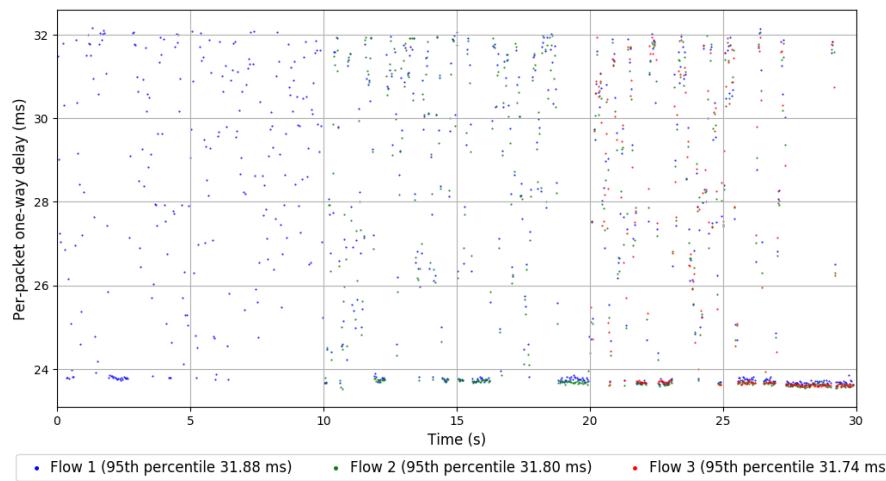
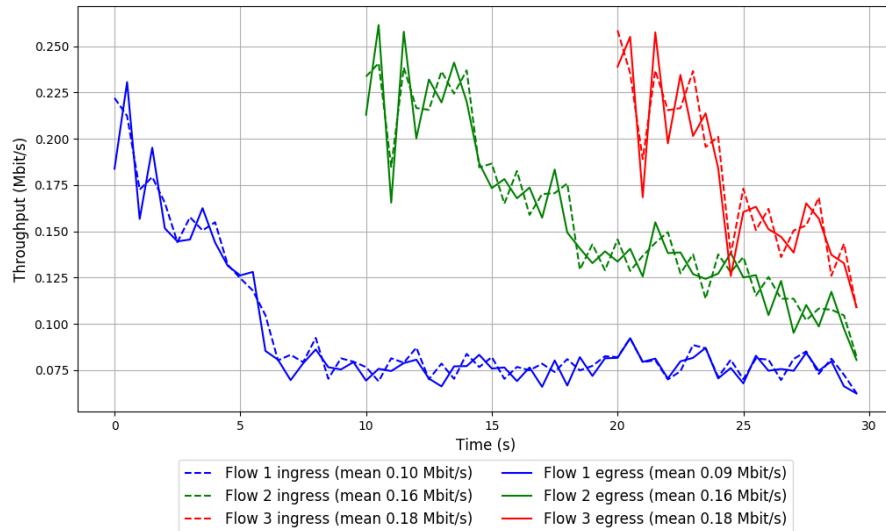


Run 4: Statistics of SCReAM

```
Start at: 2018-01-17 00:38:16
End at: 2018-01-17 00:38:46
Local clock offset: 0.425 ms
Remote clock offset: -1.359 ms

# Below is generated by plot.py at 2018-01-17 07:50:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.26 Mbit/s
95th percentile per-packet one-way delay: 31.836 ms
Loss rate: 1.62%
-- Flow 1:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 31.882 ms
Loss rate: 2.41%
-- Flow 2:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 31.804 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 31.742 ms
Loss rate: 1.55%
```

Run 4: Report of SCReAM — Data Link

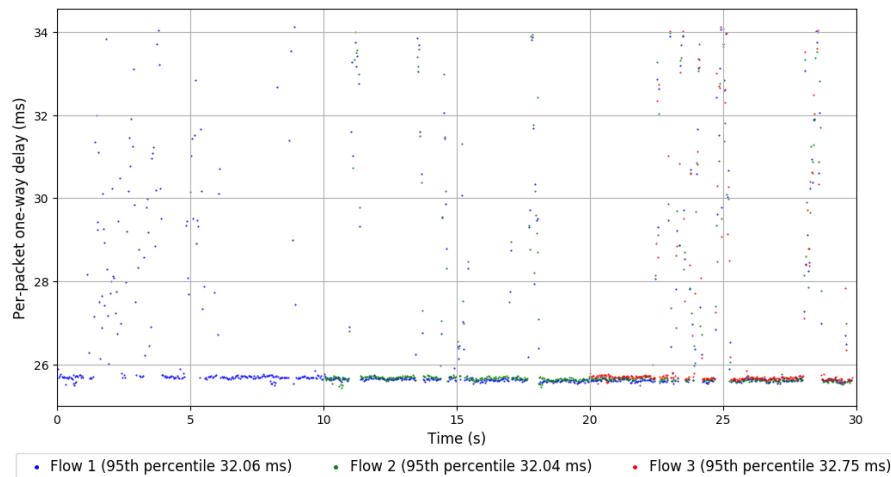
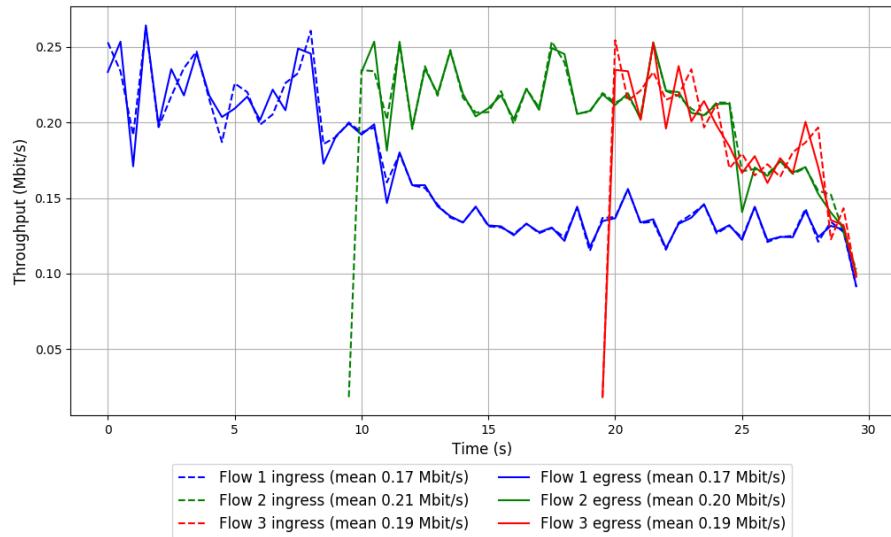


Run 5: Statistics of SCReAM

```
Start at: 2018-01-17 01:06:32
End at: 2018-01-17 01:07:02
Local clock offset: 0.1 ms
Remote clock offset: -3.715 ms

# Below is generated by plot.py at 2018-01-17 07:50:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 32.620 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 32.065 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 32.038 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 32.747 ms
Loss rate: 1.07%
```

Run 5: Report of SCReAM — Data Link

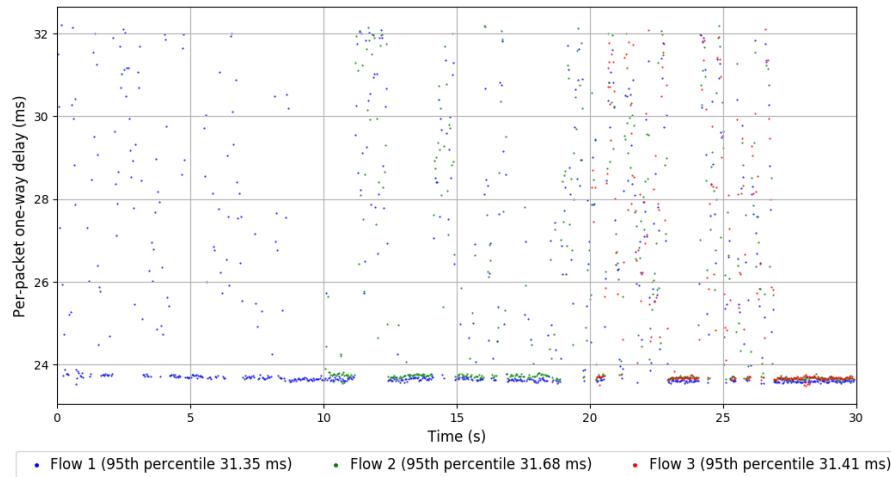
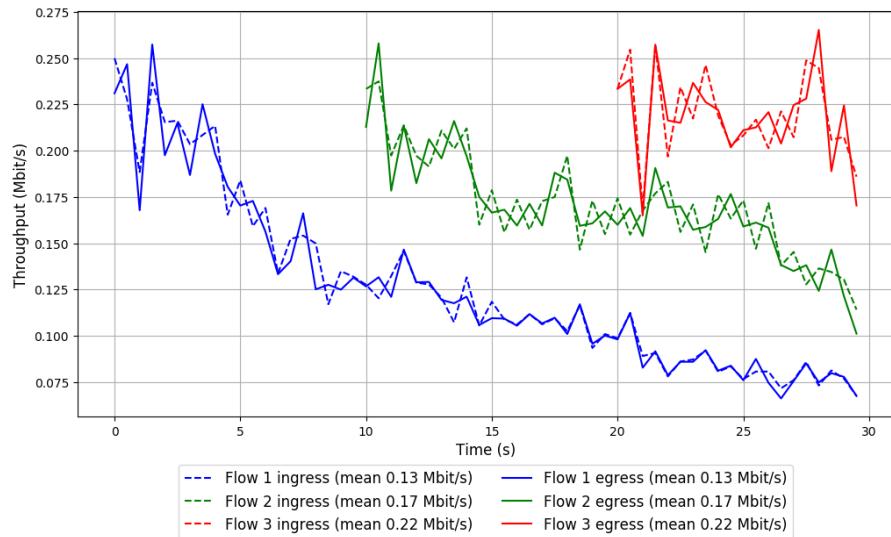


Run 6: Statistics of SCReAM

```
Start at: 2018-01-17 01:33:19
End at: 2018-01-17 01:38:49
Local clock offset: -0.093 ms
Remote clock offset: -1.595 ms

# Below is generated by plot.py at 2018-01-17 07:50:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.31 Mbit/s
95th percentile per-packet one-way delay: 31.506 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 31.354 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 31.677 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 31.415 ms
Loss rate: 0.36%
```

Run 6: Report of SCReAM — Data Link

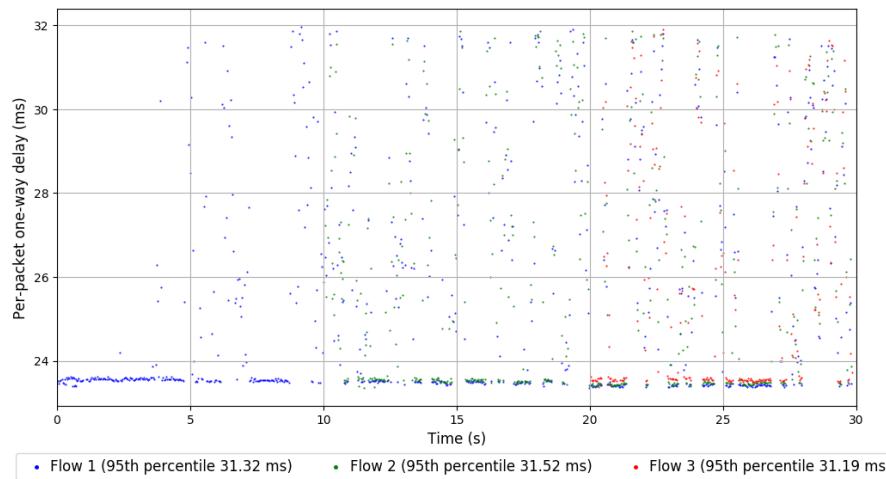
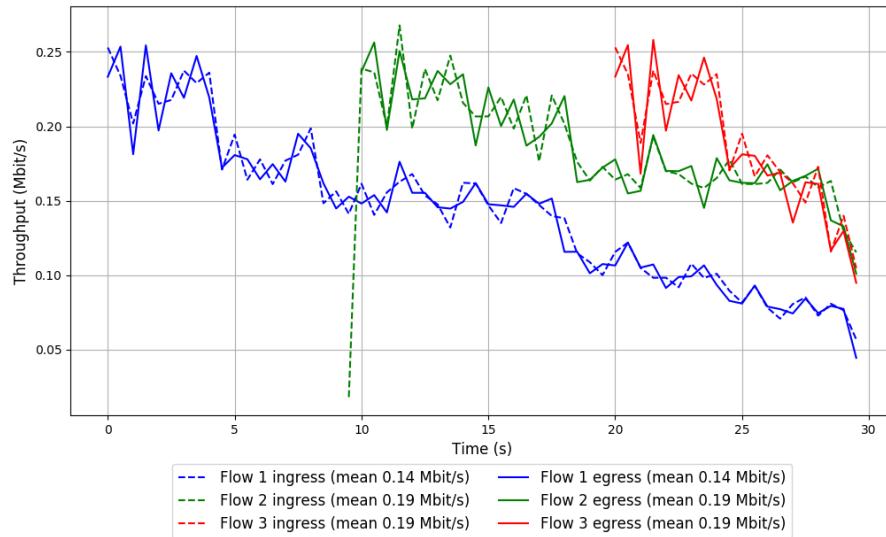


Run 7: Statistics of SCReAM

```
Start at: 2018-01-17 02:00:42
End at: 2018-01-17 02:01:12
Local clock offset: -0.322 ms
Remote clock offset: -1.542 ms

# Below is generated by plot.py at 2018-01-17 07:50:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 31.455 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 31.325 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 31.520 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 31.189 ms
Loss rate: 1.94%
```

Run 7: Report of SCReAM — Data Link

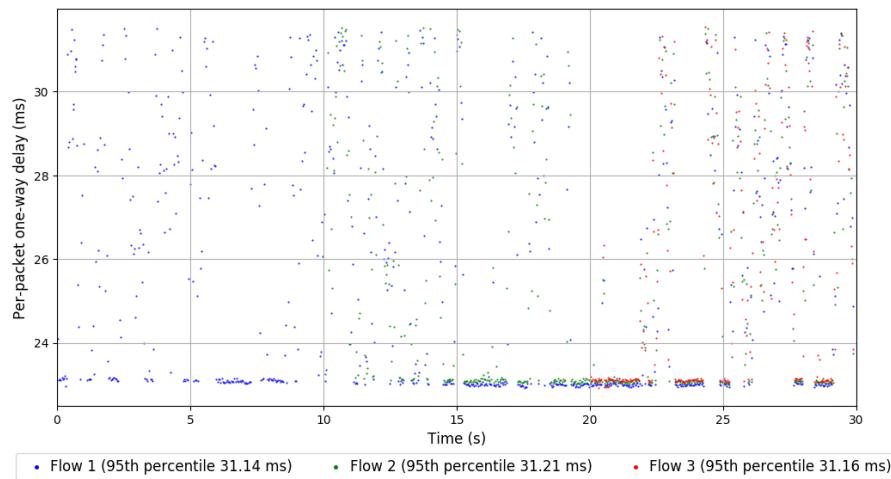
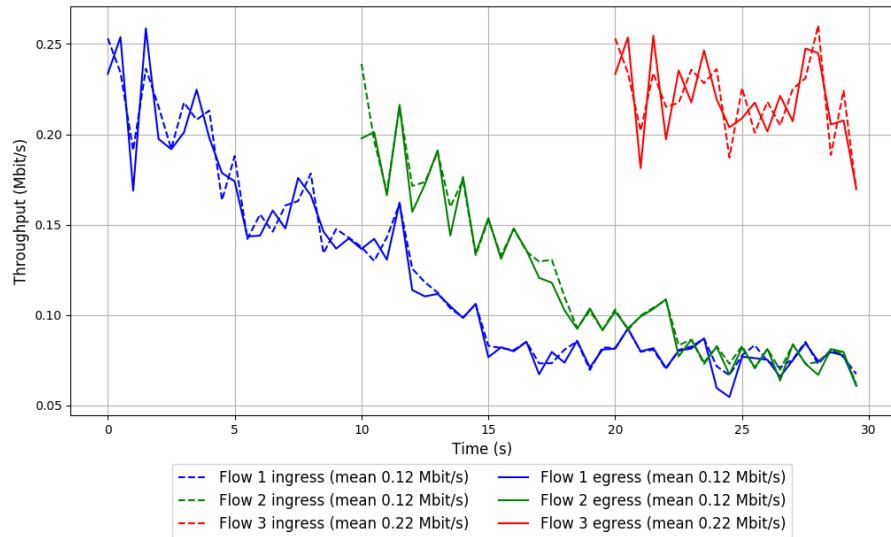


Run 8: Statistics of SCReAM

```
Start at: 2018-01-17 02:27:54
End at: 2018-01-17 02:28:24
Local clock offset: -0.334 ms
Remote clock offset: -1.089 ms

# Below is generated by plot.py at 2018-01-17 07:50:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.27 Mbit/s
95th percentile per-packet one-way delay: 31.171 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 31.140 ms
Loss rate: 1.62%
-- Flow 2:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 31.206 ms
Loss rate: 2.52%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 31.158 ms
Loss rate: 0.35%
```

Run 8: Report of SCReAM — Data Link

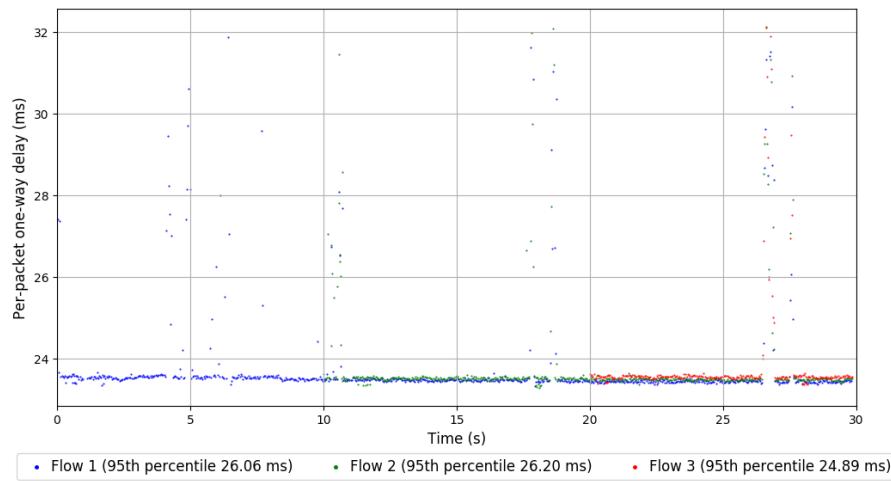
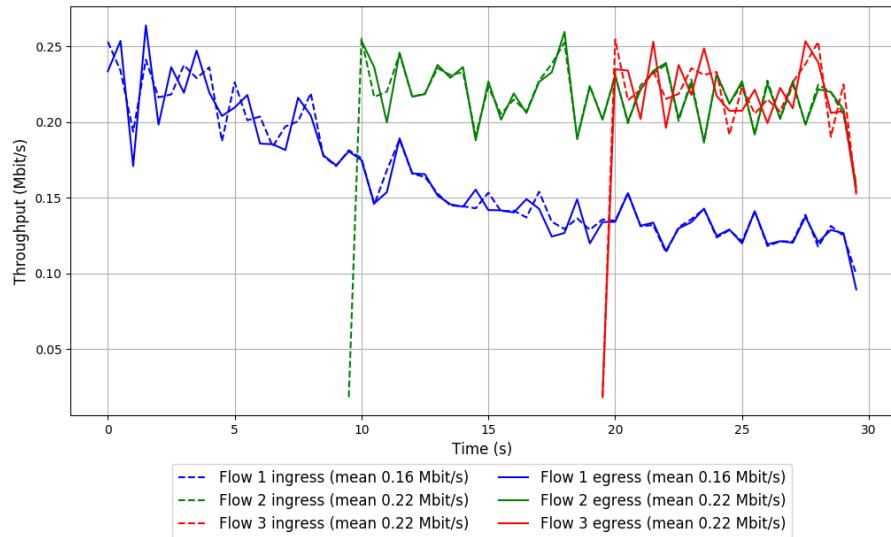


Run 9: Statistics of SCReAM

```
Start at: 2018-01-17 02:54:22
End at: 2018-01-17 02:54:52
Local clock offset: -0.603 ms
Remote clock offset: -1.744 ms

# Below is generated by plot.py at 2018-01-17 07:50:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 26.035 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 26.060 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 26.200 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 24.885 ms
Loss rate: 0.35%
```

Run 9: Report of SCReAM — Data Link

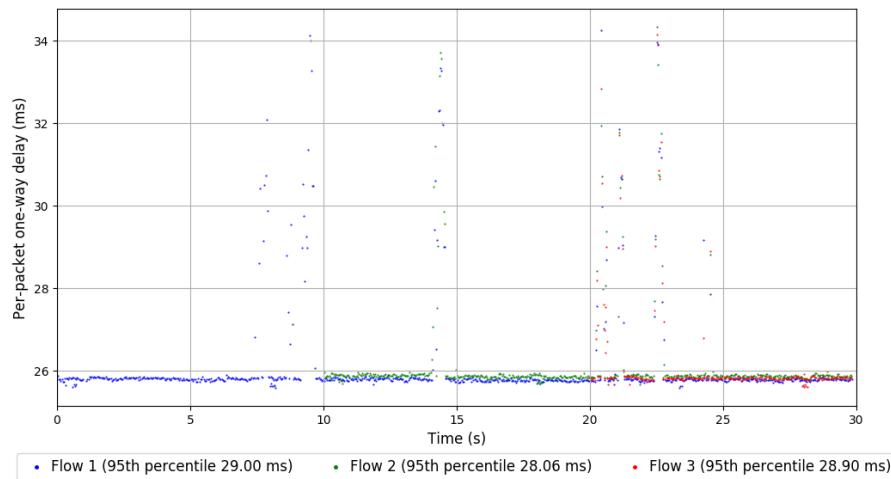
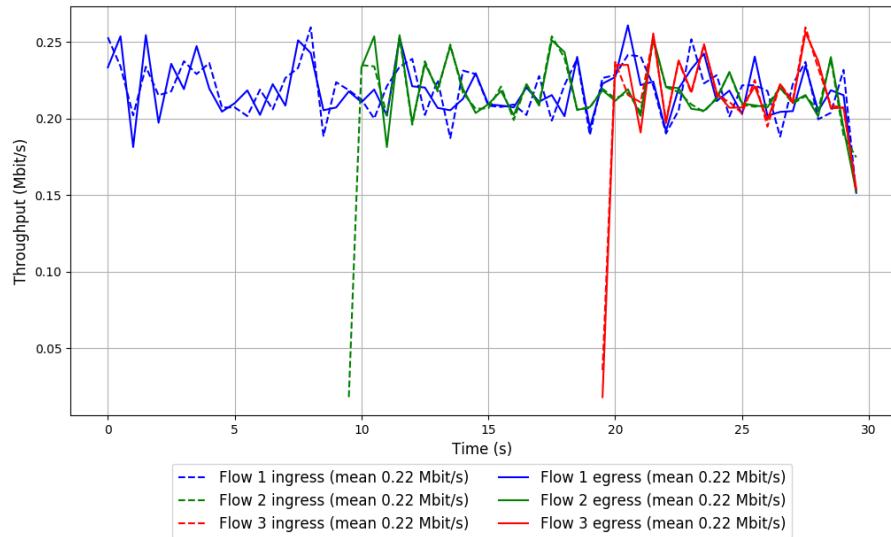


Run 10: Statistics of SCReAM

```
Start at: 2018-01-17 03:19:38
End at: 2018-01-17 03:20:08
Local clock offset: -0.627 ms
Remote clock offset: -4.176 ms

# Below is generated by plot.py at 2018-01-17 07:50:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 28.951 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.997 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.056 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.900 ms
Loss rate: 0.35%
```

Run 10: Report of SCReAM — Data Link

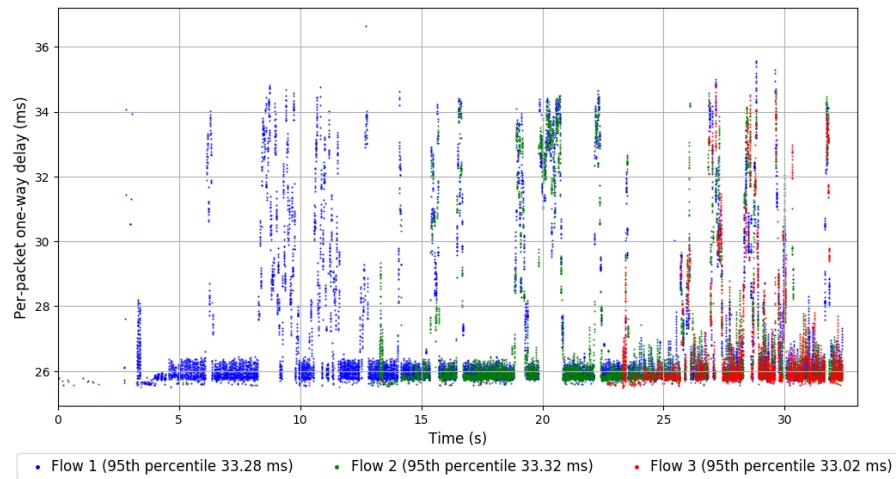
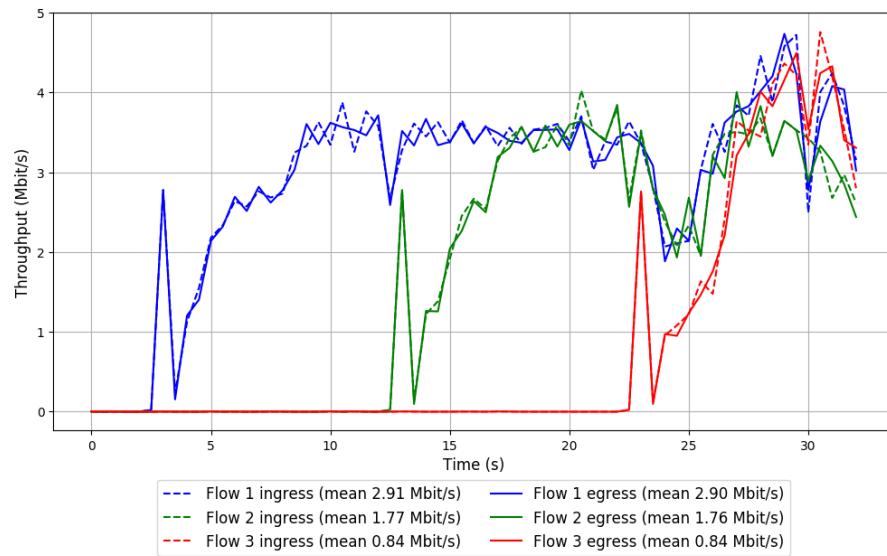


```
Run 1: Statistics of WebRTC media

Start at: 2018-01-16 22:55:45
End at: 2018-01-16 22:56:15
Local clock offset: 0.521 ms
Remote clock offset: -6.012 ms

# Below is generated by plot.py at 2018-01-17 07:50:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.48 Mbit/s
95th percentile per-packet one-way delay: 33.253 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 2.90 Mbit/s
95th percentile per-packet one-way delay: 33.276 ms
Loss rate: 0.82%
-- Flow 2:
Average throughput: 1.76 Mbit/s
95th percentile per-packet one-way delay: 33.321 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 0.84 Mbit/s
95th percentile per-packet one-way delay: 33.022 ms
Loss rate: 0.29%
```

Run 1: Report of WebRTC media — Data Link

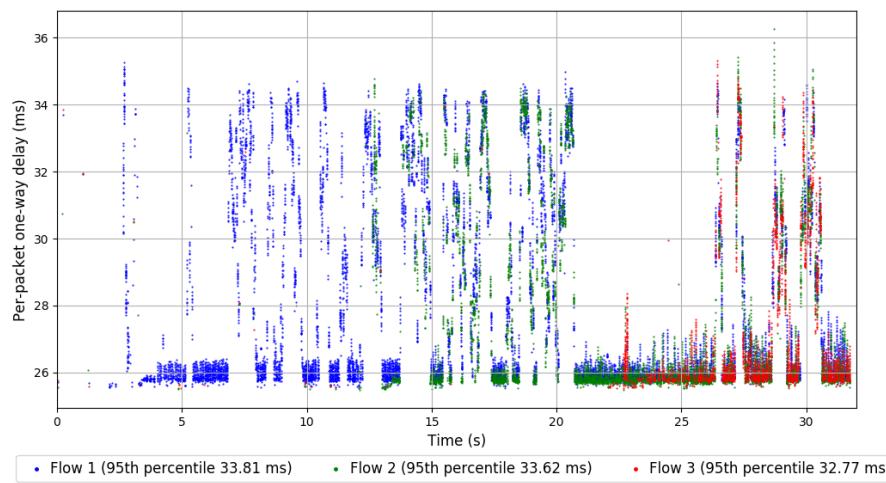
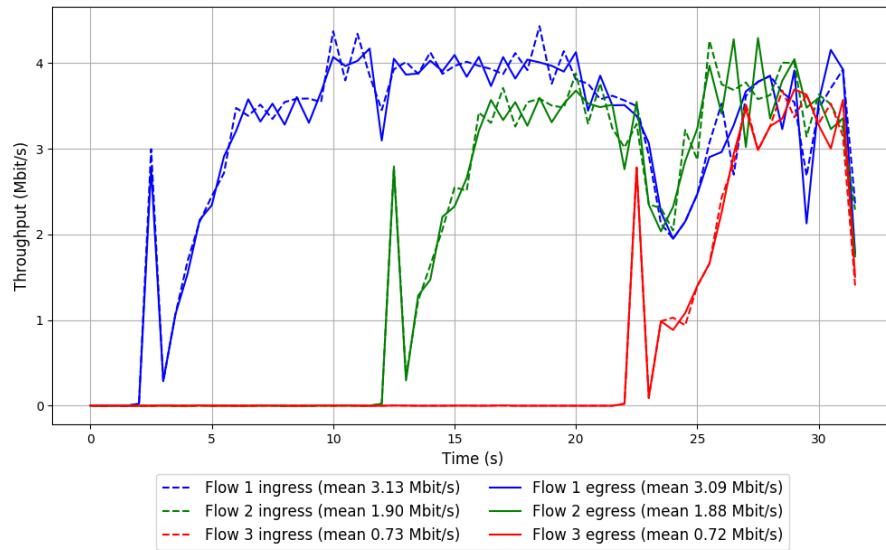


```
Run 2: Statistics of WebRTC media

Start at: 2018-01-16 23:21:41
End at: 2018-01-16 23:22:11
Local clock offset: 0.845 ms
Remote clock offset: -5.04 ms

# Below is generated by plot.py at 2018-01-17 07:50:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.70 Mbit/s
95th percentile per-packet one-way delay: 33.705 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 3.09 Mbit/s
95th percentile per-packet one-way delay: 33.811 ms
Loss rate: 1.20%
-- Flow 2:
Average throughput: 1.88 Mbit/s
95th percentile per-packet one-way delay: 33.622 ms
Loss rate: 1.20%
-- Flow 3:
Average throughput: 0.72 Mbit/s
95th percentile per-packet one-way delay: 32.768 ms
Loss rate: 0.30%
```

## Run 2: Report of WebRTC media — Data Link

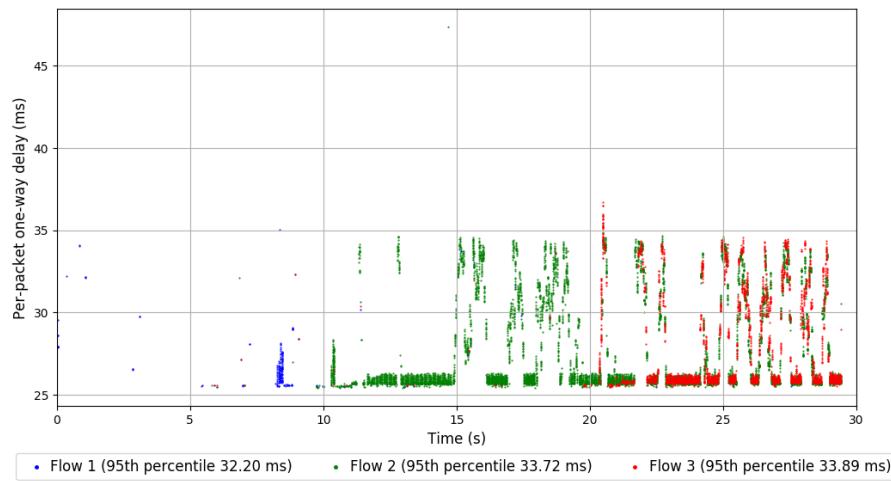
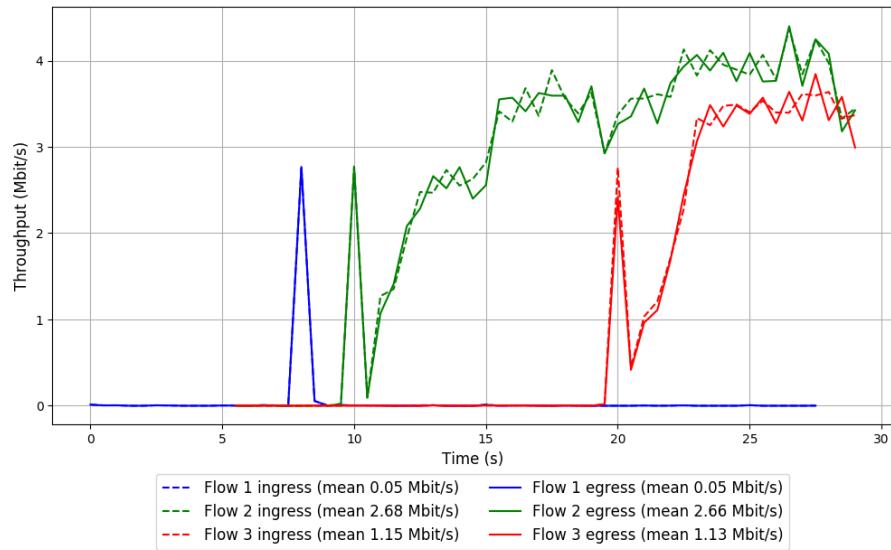


```
Run 3: Statistics of WebRTC media

Start at: 2018-01-16 23:48:11
End at: 2018-01-16 23:48:41
Local clock offset: 0.921 ms
Remote clock offset: -4.087 ms

# Below is generated by plot.py at 2018-01-17 07:50:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.09 Mbit/s
95th percentile per-packet one-way delay: 33.774 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 32.205 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 2.66 Mbit/s
95th percentile per-packet one-way delay: 33.722 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 1.13 Mbit/s
95th percentile per-packet one-way delay: 33.887 ms
Loss rate: 1.95%
```

Run 3: Report of WebRTC media — Data Link

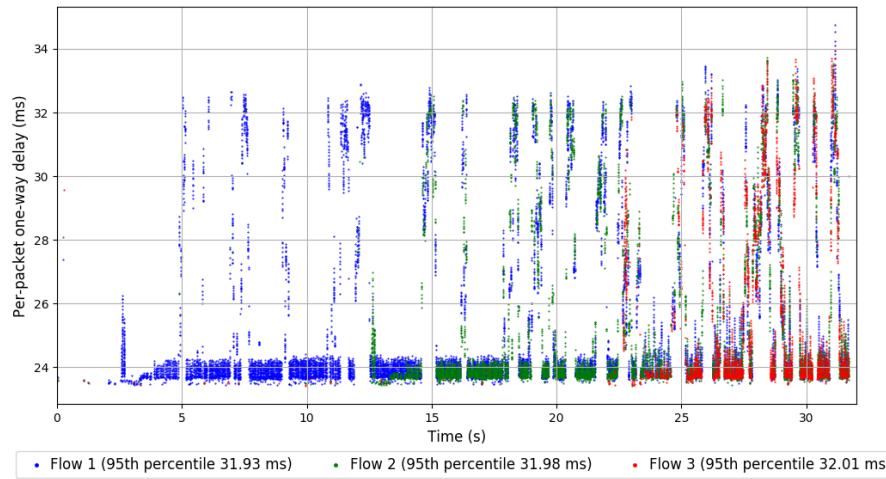
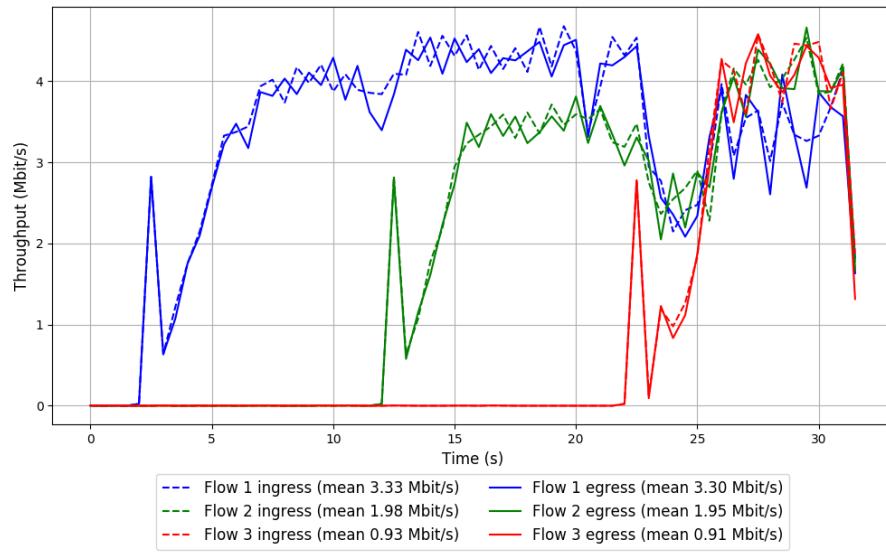


Run 4: Statistics of WebRTC media

```
Start at: 2018-01-17 00:15:18
End at: 2018-01-17 00:15:48
Local clock offset: 0.657 ms
Remote clock offset: -1.453 ms

# Below is generated by plot.py at 2018-01-17 07:50:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.15 Mbit/s
95th percentile per-packet one-way delay: 31.966 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 3.30 Mbit/s
95th percentile per-packet one-way delay: 31.934 ms
Loss rate: 1.36%
-- Flow 2:
Average throughput: 1.95 Mbit/s
95th percentile per-packet one-way delay: 31.975 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 0.91 Mbit/s
95th percentile per-packet one-way delay: 32.013 ms
Loss rate: 2.62%
```

Run 4: Report of WebRTC media — Data Link

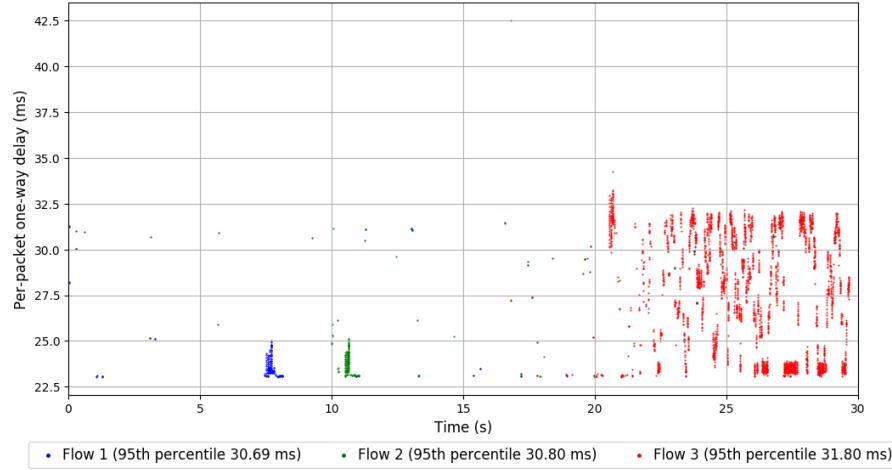
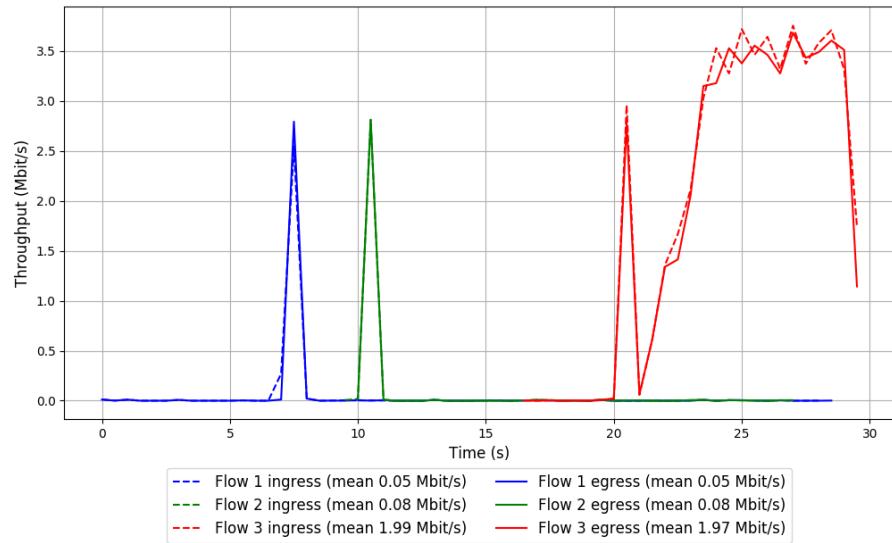


Run 5: Statistics of WebRTC media

```
Start at: 2018-01-17 00:42:48
End at: 2018-01-17 00:43:18
Local clock offset: 0.391 ms
Remote clock offset: -0.946 ms

# Below is generated by plot.py at 2018-01-17 07:50:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.95 Mbit/s
95th percentile per-packet one-way delay: 31.762 ms
Loss rate: 2.72%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 30.693 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 30.803 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 31.800 ms
Loss rate: 2.99%
```

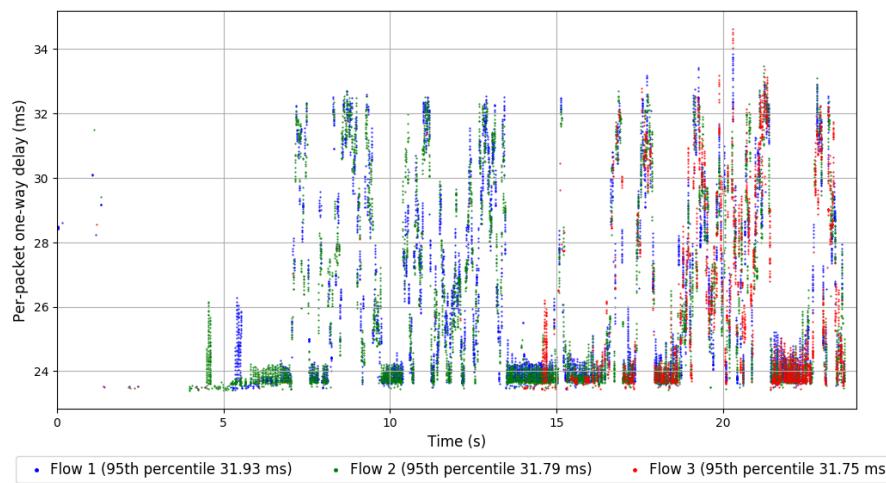
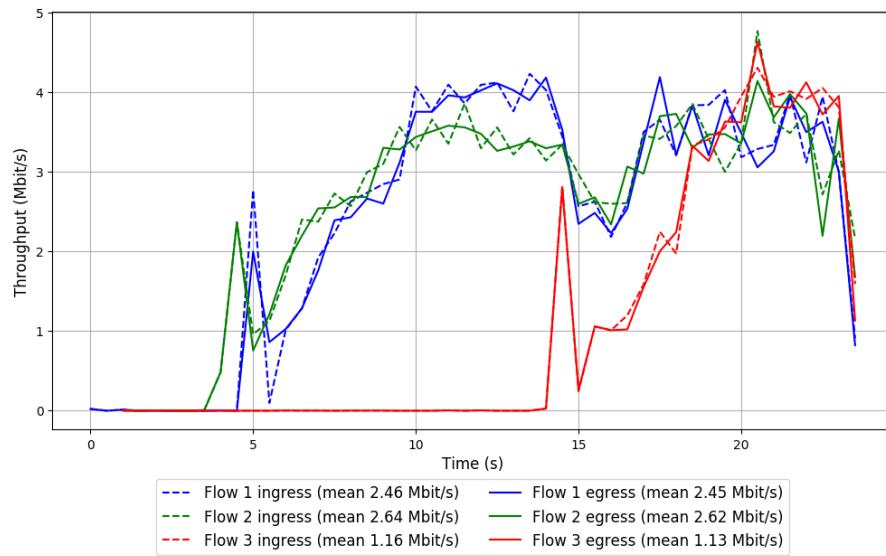
### Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-17 01:10:48  
End at: 2018-01-17 01:11:18  
Local clock offset: 0.125 ms  
Remote clock offset: -1.593 ms

Run 6: Report of WebRTC media — Data Link

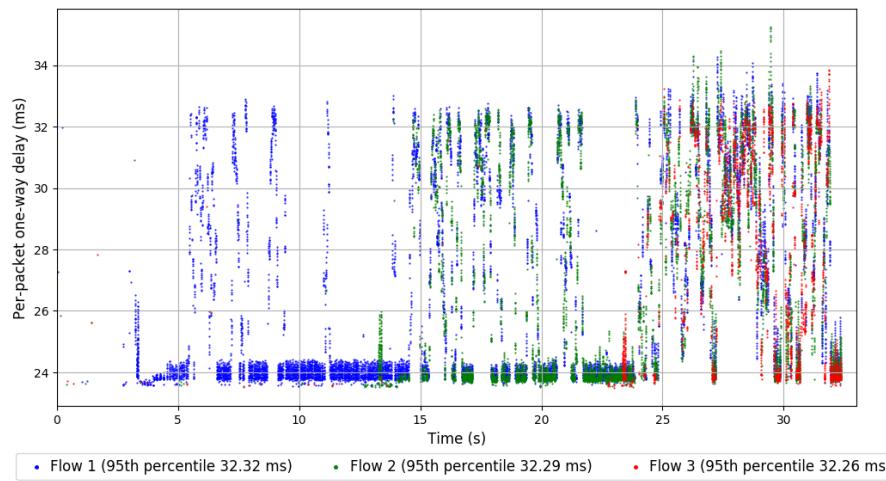
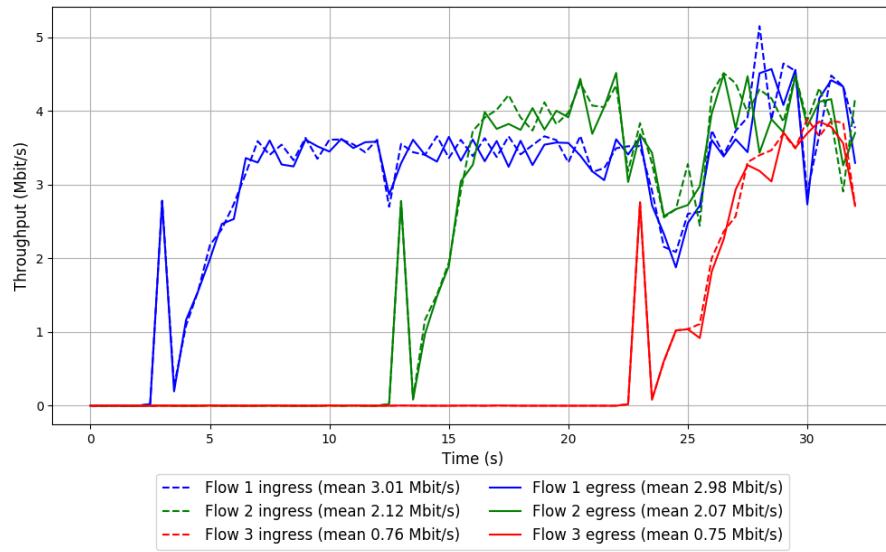


```
Run 7: Statistics of WebRTC media

Start at: 2018-01-17 01:37:45
End at: 2018-01-17 01:38:15
Local clock offset: -0.099 ms
Remote clock offset: -1.624 ms

# Below is generated by plot.py at 2018-01-17 07:50:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.78 Mbit/s
95th percentile per-packet one-way delay: 32.301 ms
Loss rate: 1.98%
-- Flow 1:
Average throughput: 2.98 Mbit/s
95th percentile per-packet one-way delay: 32.316 ms
Loss rate: 1.55%
-- Flow 2:
Average throughput: 2.07 Mbit/s
95th percentile per-packet one-way delay: 32.292 ms
Loss rate: 2.48%
-- Flow 3:
Average throughput: 0.75 Mbit/s
95th percentile per-packet one-way delay: 32.259 ms
Loss rate: 2.31%
```

Run 7: Report of WebRTC media — Data Link

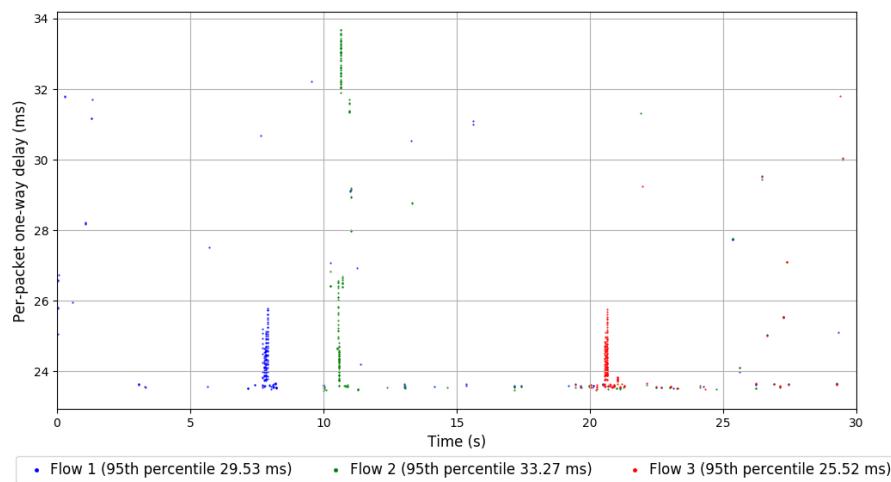
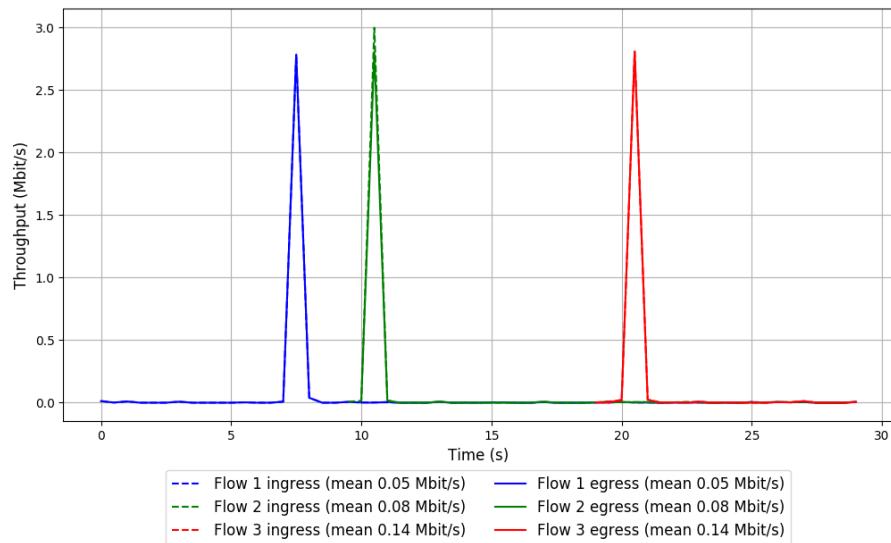


Run 8: Statistics of WebRTC media

```
Start at: 2018-01-17 02:05:03
End at: 2018-01-17 02:05:33
Local clock offset: -0.24 ms
Remote clock offset: -1.679 ms

# Below is generated by plot.py at 2018-01-17 07:50:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 32.518 ms
Loss rate: 2.16%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 29.529 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 33.266 ms
Loss rate: 6.15%
-- Flow 3:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 25.525 ms
Loss rate: 0.00%
```

Run 8: Report of WebRTC media — Data Link

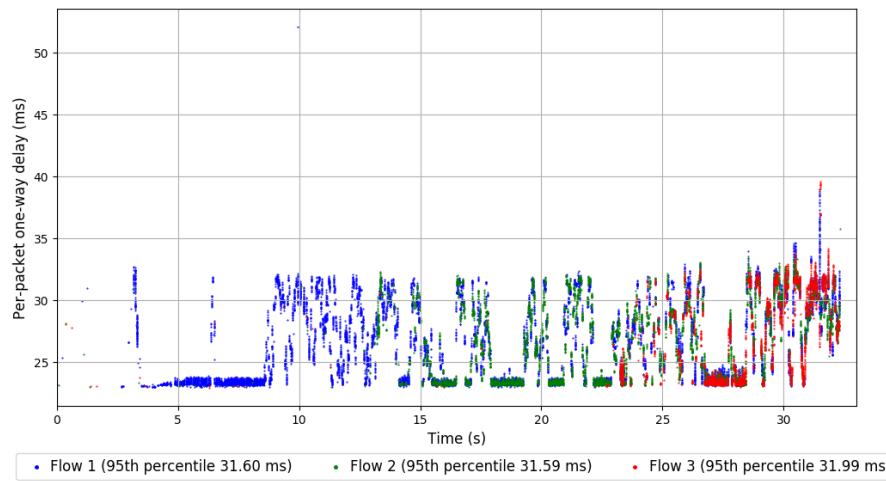
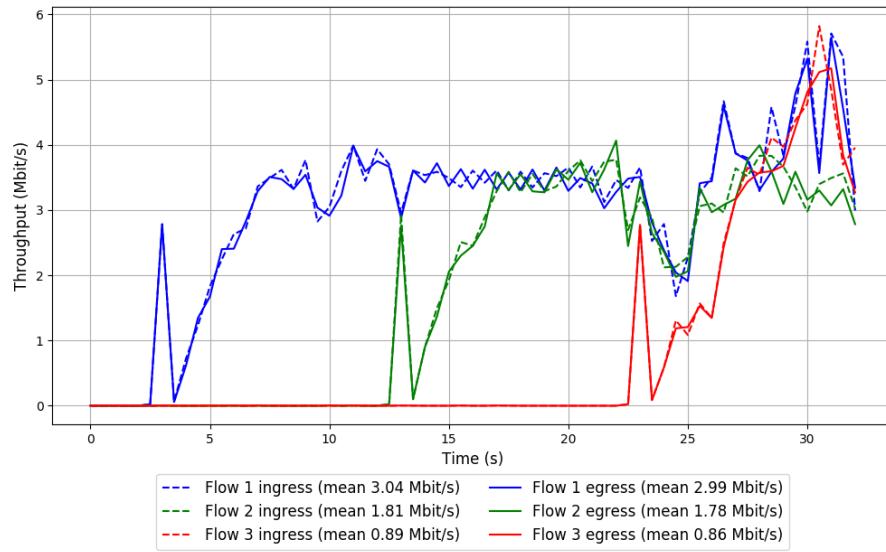


Run 9: Statistics of WebRTC media

```
Start at: 2018-01-17 02:32:18
End at: 2018-01-17 02:32:48
Local clock offset: -0.325 ms
Remote clock offset: -1.11 ms

# Below is generated by plot.py at 2018-01-17 07:50:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.62 Mbit/s
95th percentile per-packet one-way delay: 31.676 ms
Loss rate: 2.05%
-- Flow 1:
Average throughput: 2.99 Mbit/s
95th percentile per-packet one-way delay: 31.596 ms
Loss rate: 1.86%
-- Flow 2:
Average throughput: 1.78 Mbit/s
95th percentile per-packet one-way delay: 31.591 ms
Loss rate: 1.72%
-- Flow 3:
Average throughput: 0.86 Mbit/s
95th percentile per-packet one-way delay: 31.990 ms
Loss rate: 3.41%
```

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

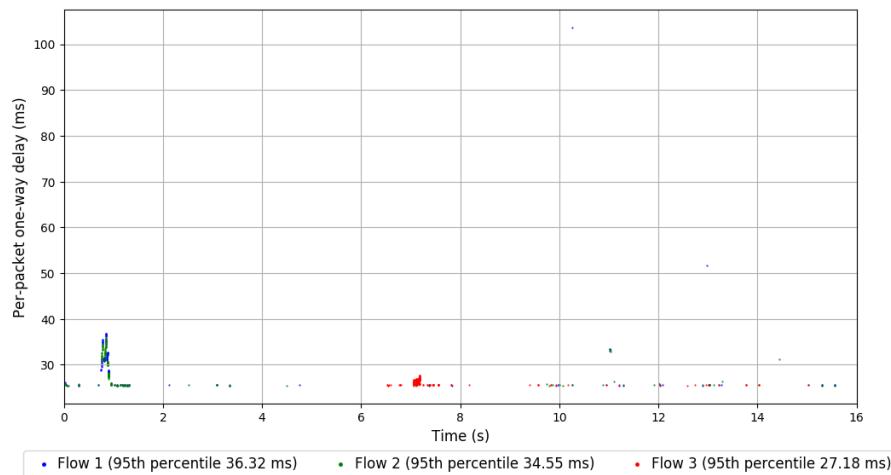
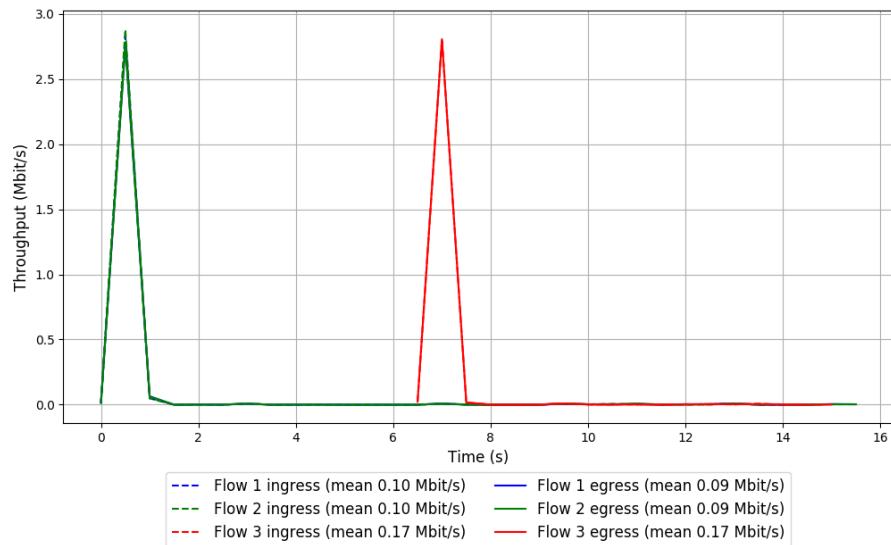
Start at: 2018-01-17 02:58:28

End at: 2018-01-17 02:58:58

Local clock offset: -0.555 ms

Remote clock offset: -3.939 ms

### Run 10: Report of WebRTC media — Data Link

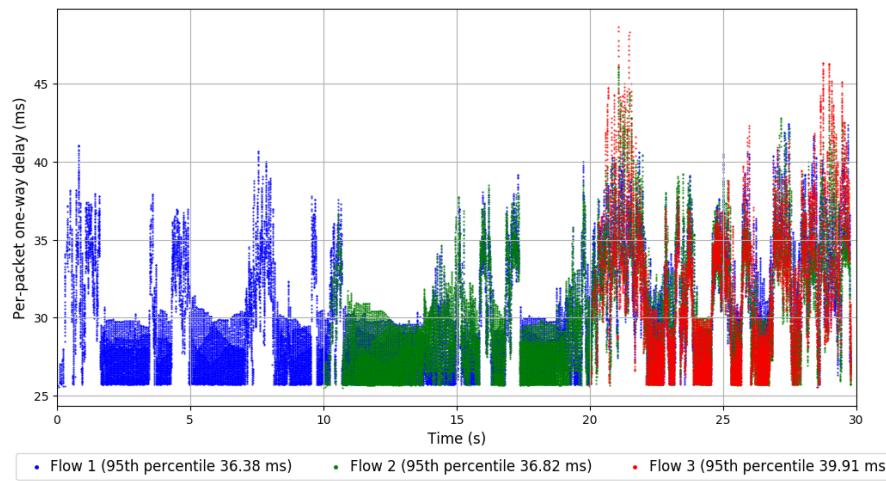
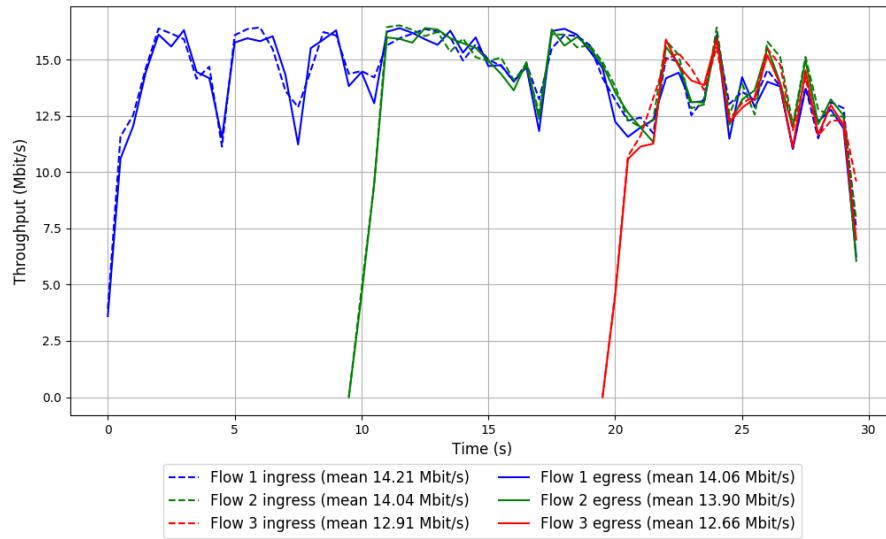


Run 1: Statistics of Sprout

```
Start at: 2018-01-16 23:11:18
End at: 2018-01-16 23:11:48
Local clock offset: 0.82 ms
Remote clock offset: -5.383 ms

# Below is generated by plot.py at 2018-01-17 07:50:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 27.50 Mbit/s
95th percentile per-packet one-way delay: 37.075 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 14.06 Mbit/s
95th percentile per-packet one-way delay: 36.376 ms
Loss rate: 1.21%
-- Flow 2:
Average throughput: 13.90 Mbit/s
95th percentile per-packet one-way delay: 36.823 ms
Loss rate: 1.29%
-- Flow 3:
Average throughput: 12.66 Mbit/s
95th percentile per-packet one-way delay: 39.910 ms
Loss rate: 2.52%
```

## Run 1: Report of Sprout — Data Link

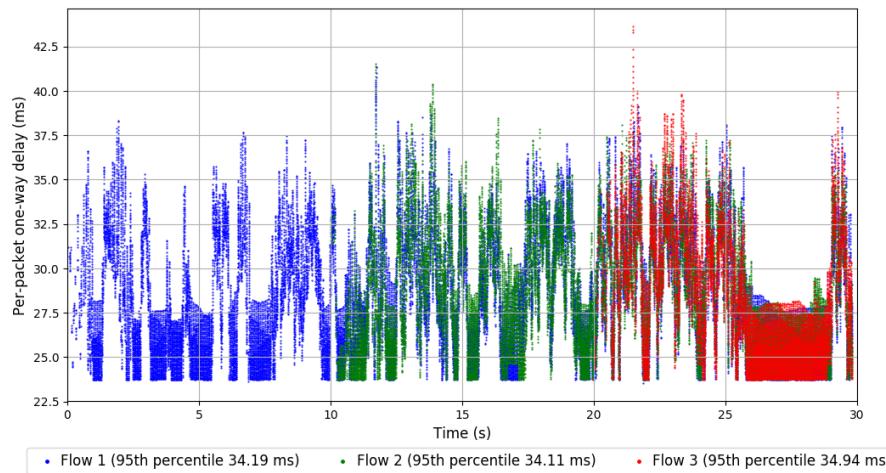
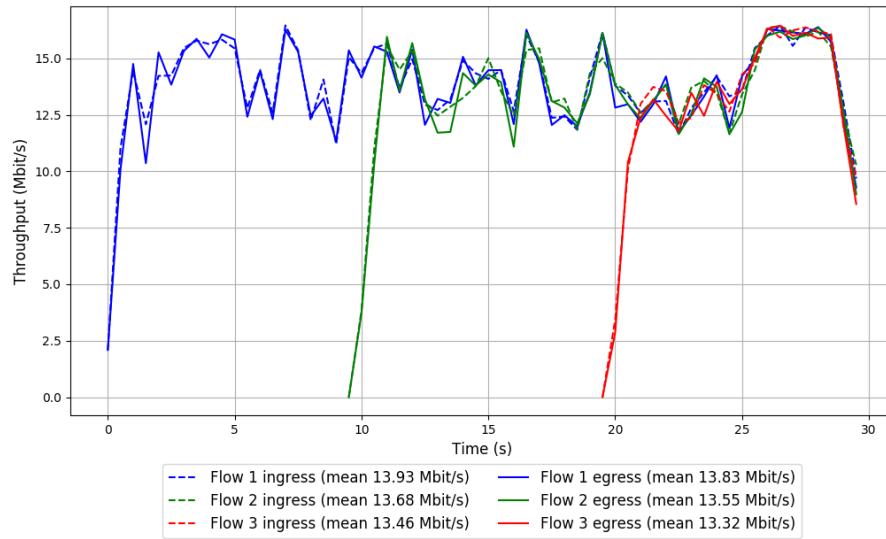


Run 2: Statistics of Sprout

```
Start at: 2018-01-16 23:37:58
End at: 2018-01-16 23:38:28
Local clock offset: 0.953 ms
Remote clock offset: -2.364 ms

# Below is generated by plot.py at 2018-01-17 07:50:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 27.25 Mbit/s
95th percentile per-packet one-way delay: 34.270 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 13.83 Mbit/s
95th percentile per-packet one-way delay: 34.187 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 13.55 Mbit/s
95th percentile per-packet one-way delay: 34.114 ms
Loss rate: 1.17%
-- Flow 3:
Average throughput: 13.32 Mbit/s
95th percentile per-packet one-way delay: 34.935 ms
Loss rate: 1.59%
```

## Run 2: Report of Sprout — Data Link

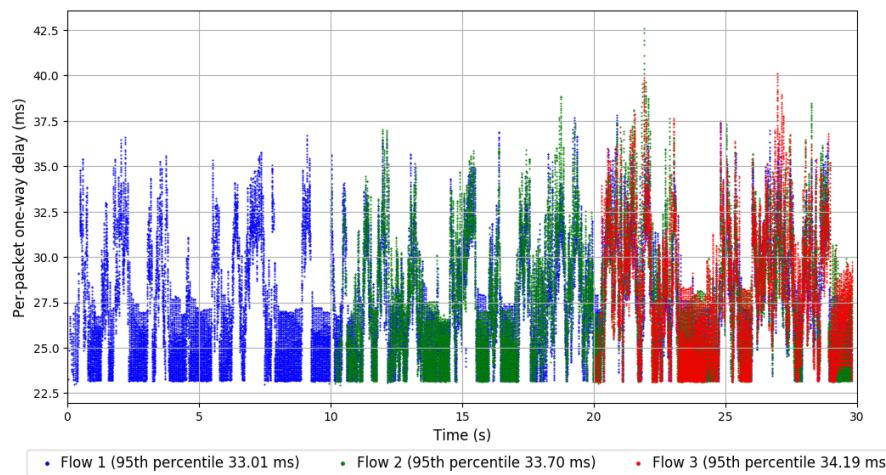
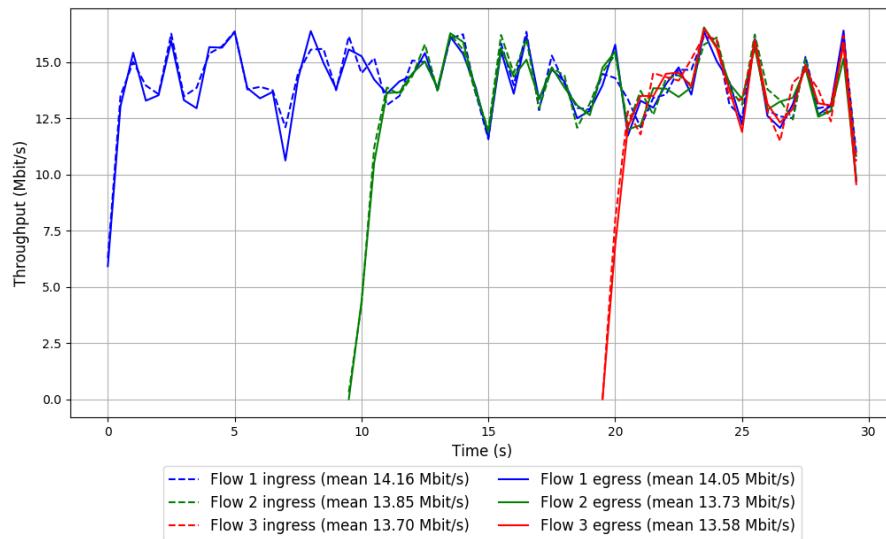


Run 3: Statistics of Sprout

```
Start at: 2018-01-17 00:04:51
End at: 2018-01-17 00:05:21
Local clock offset: 0.656 ms
Remote clock offset: -1.24 ms

# Below is generated by plot.py at 2018-01-17 07:50:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 27.69 Mbit/s
95th percentile per-packet one-way delay: 33.438 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 14.05 Mbit/s
95th percentile per-packet one-way delay: 33.007 ms
Loss rate: 1.02%
-- Flow 2:
Average throughput: 13.73 Mbit/s
95th percentile per-packet one-way delay: 33.703 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 13.58 Mbit/s
95th percentile per-packet one-way delay: 34.191 ms
Loss rate: 1.45%
```

### Run 3: Report of Sprout — Data Link

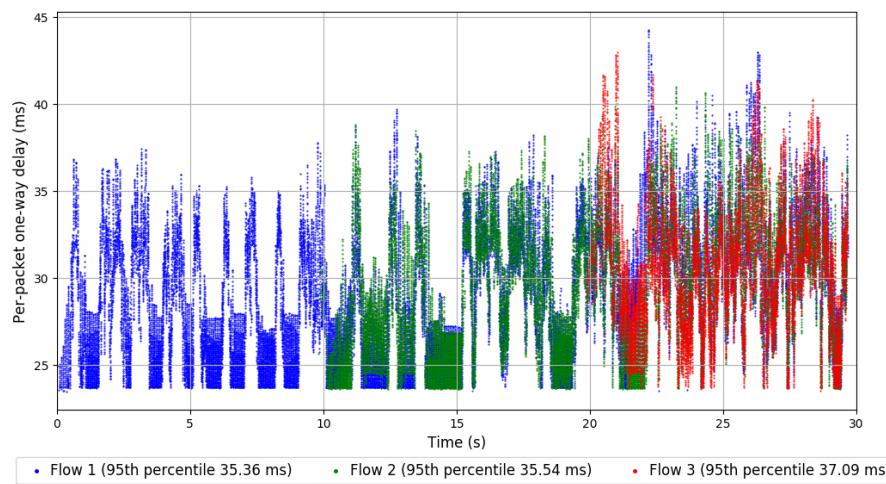
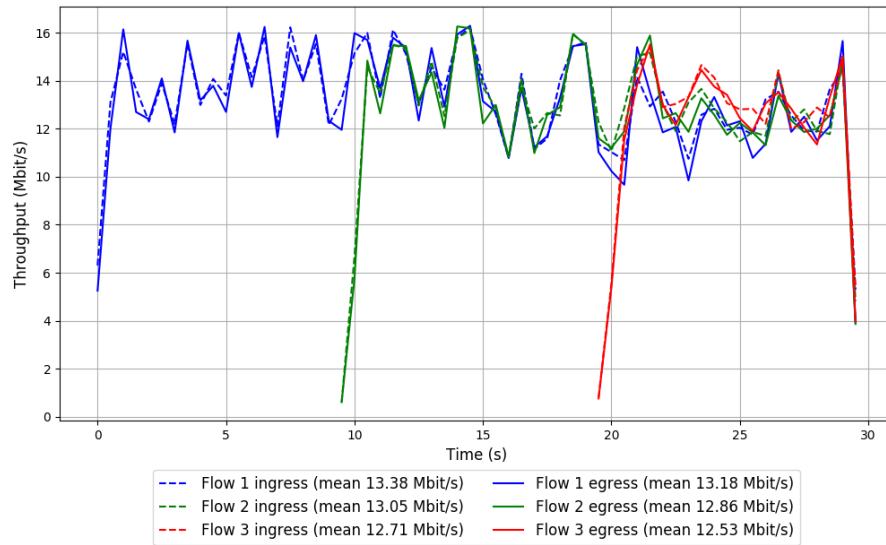


Run 4: Statistics of Sprout

```
Start at: 2018-01-17 00:32:06
End at: 2018-01-17 00:32:36
Local clock offset: 0.474 ms
Remote clock offset: -1.3 ms

# Below is generated by plot.py at 2018-01-17 07:50:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 25.95 Mbit/s
95th percentile per-packet one-way delay: 35.702 ms
Loss rate: 1.72%
-- Flow 1:
Average throughput: 13.18 Mbit/s
95th percentile per-packet one-way delay: 35.356 ms
Loss rate: 1.66%
-- Flow 2:
Average throughput: 12.86 Mbit/s
95th percentile per-packet one-way delay: 35.540 ms
Loss rate: 1.68%
-- Flow 3:
Average throughput: 12.53 Mbit/s
95th percentile per-packet one-way delay: 37.086 ms
Loss rate: 1.98%
```

Run 4: Report of Sprout — Data Link

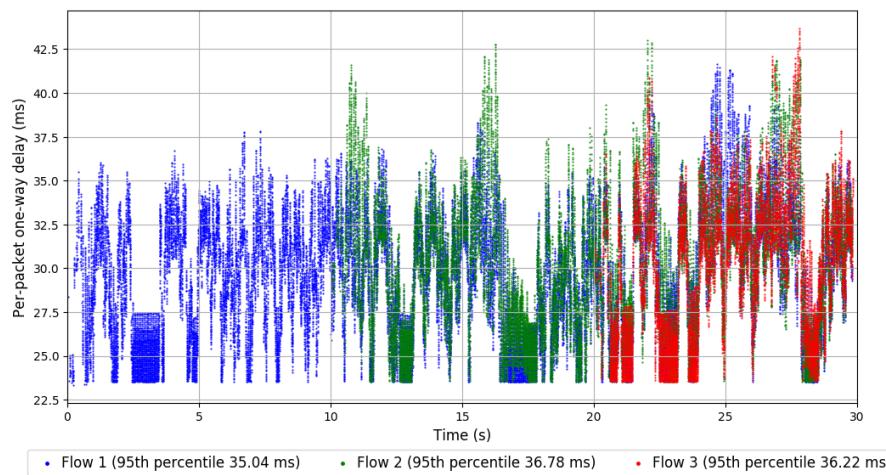
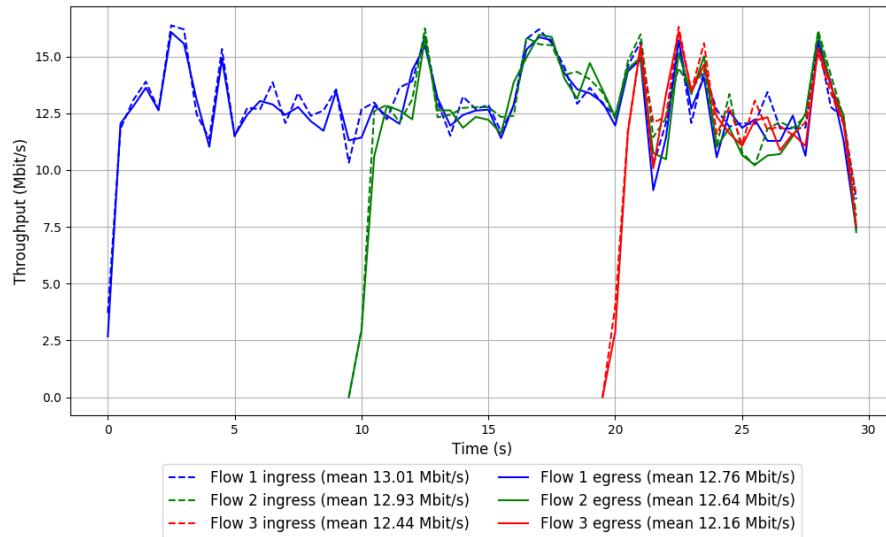


Run 5: Statistics of Sprout

```
Start at: 2018-01-17 01:00:42
End at: 2018-01-17 01:01:12
Local clock offset: 0.13 ms
Remote clock offset: -1.564 ms

# Below is generated by plot.py at 2018-01-17 07:50:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 25.18 Mbit/s
95th percentile per-packet one-way delay: 35.813 ms
Loss rate: 2.35%
-- Flow 1:
Average throughput: 12.76 Mbit/s
95th percentile per-packet one-way delay: 35.040 ms
Loss rate: 2.15%
-- Flow 2:
Average throughput: 12.64 Mbit/s
95th percentile per-packet one-way delay: 36.784 ms
Loss rate: 2.44%
-- Flow 3:
Average throughput: 12.16 Mbit/s
95th percentile per-packet one-way delay: 36.217 ms
Loss rate: 2.78%
```

Run 5: Report of Sprout — Data Link

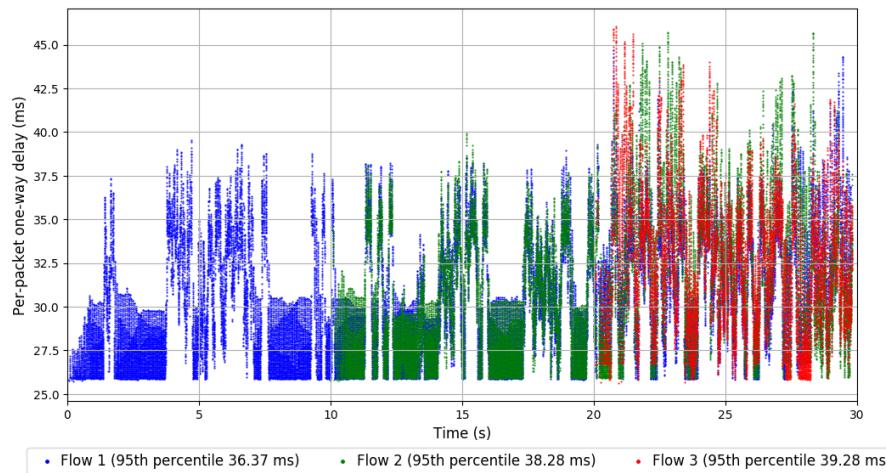
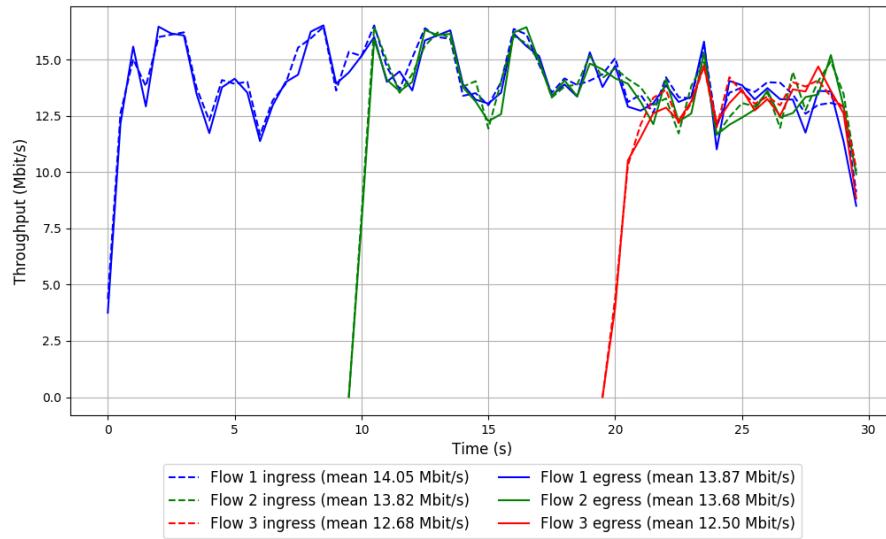


Run 6: Statistics of Sprout

```
Start at: 2018-01-17 01:27:21
End at: 2018-01-17 01:27:51
Local clock offset: -0.032 ms
Remote clock offset: -3.727 ms

# Below is generated by plot.py at 2018-01-17 07:50:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 27.11 Mbit/s
95th percentile per-packet one-way delay: 37.451 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 13.87 Mbit/s
95th percentile per-packet one-way delay: 36.372 ms
Loss rate: 1.42%
-- Flow 2:
Average throughput: 13.68 Mbit/s
95th percentile per-packet one-way delay: 38.283 ms
Loss rate: 1.29%
-- Flow 3:
Average throughput: 12.50 Mbit/s
95th percentile per-packet one-way delay: 39.282 ms
Loss rate: 1.99%
```

Run 6: Report of Sprout — Data Link

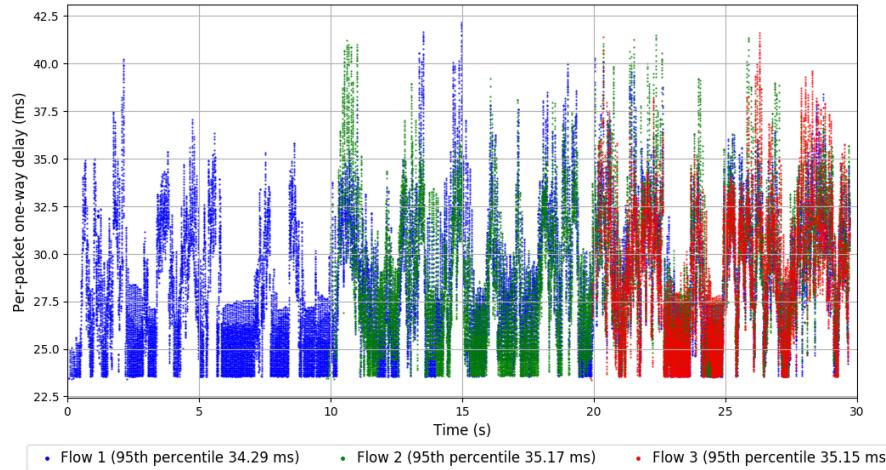
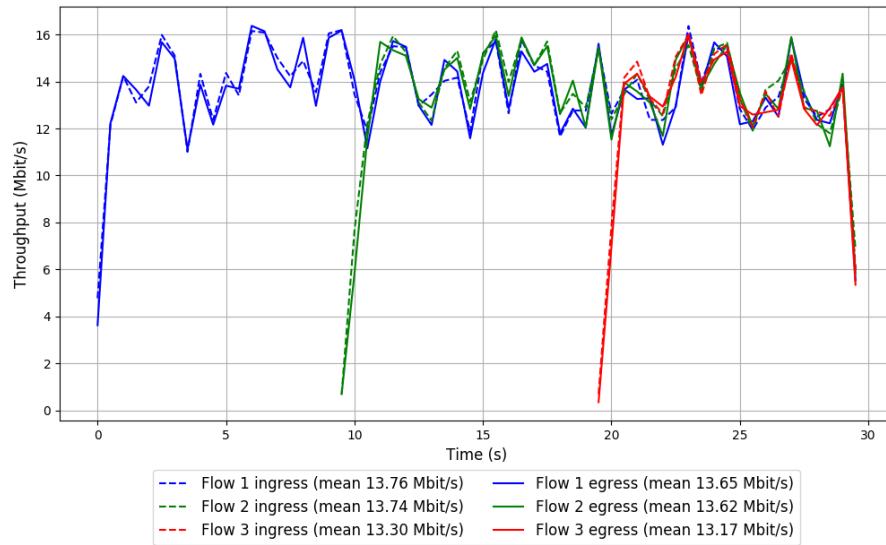


Run 7: Statistics of Sprout

```
Start at: 2018-01-17 01:54:56
End at: 2018-01-17 01:55:26
Local clock offset: -0.307 ms
Remote clock offset: -1.538 ms

# Below is generated by plot.py at 2018-01-17 07:50:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 27.12 Mbit/s
95th percentile per-packet one-way delay: 34.726 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 13.65 Mbit/s
95th percentile per-packet one-way delay: 34.286 ms
Loss rate: 1.02%
-- Flow 2:
Average throughput: 13.62 Mbit/s
95th percentile per-packet one-way delay: 35.166 ms
Loss rate: 1.14%
-- Flow 3:
Average throughput: 13.17 Mbit/s
95th percentile per-packet one-way delay: 35.150 ms
Loss rate: 1.51%
```

Run 7: Report of Sprout — Data Link

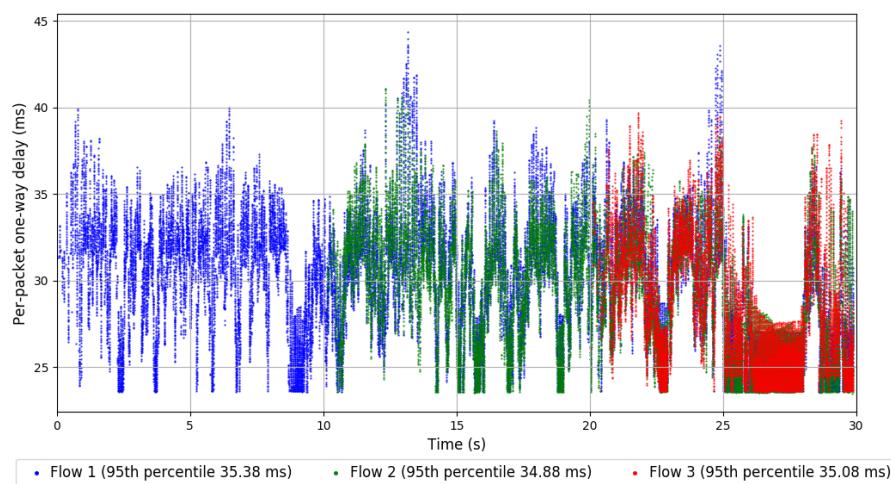
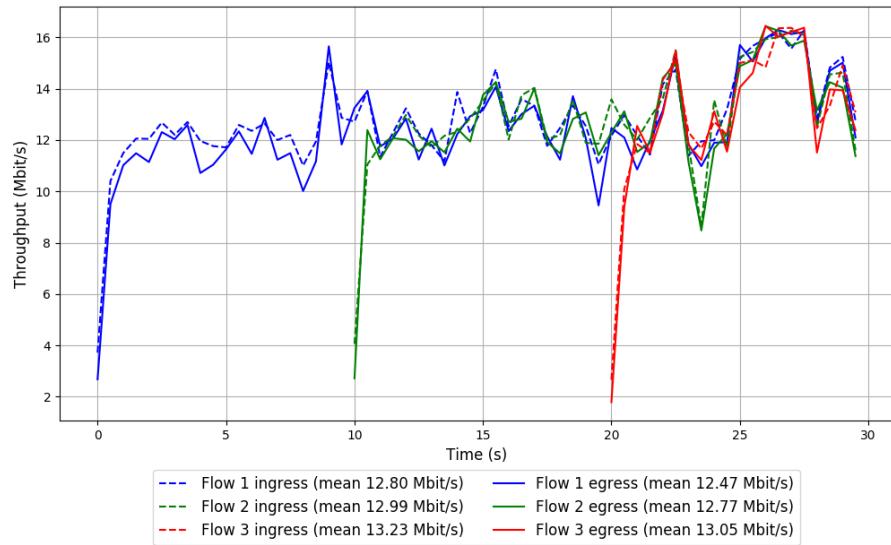


Run 8: Statistics of Sprout

```
Start at: 2018-01-17 02:21:57
End at: 2018-01-17 02:22:27
Local clock offset: -0.369 ms
Remote clock offset: -1.604 ms

# Below is generated by plot.py at 2018-01-17 07:50:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 25.27 Mbit/s
95th percentile per-packet one-way delay: 35.154 ms
Loss rate: 2.29%
-- Flow 1:
Average throughput: 12.47 Mbit/s
95th percentile per-packet one-way delay: 35.375 ms
Loss rate: 2.73%
-- Flow 2:
Average throughput: 12.77 Mbit/s
95th percentile per-packet one-way delay: 34.880 ms
Loss rate: 1.84%
-- Flow 3:
Average throughput: 13.05 Mbit/s
95th percentile per-packet one-way delay: 35.078 ms
Loss rate: 1.88%
```

Run 8: Report of Sprout — Data Link

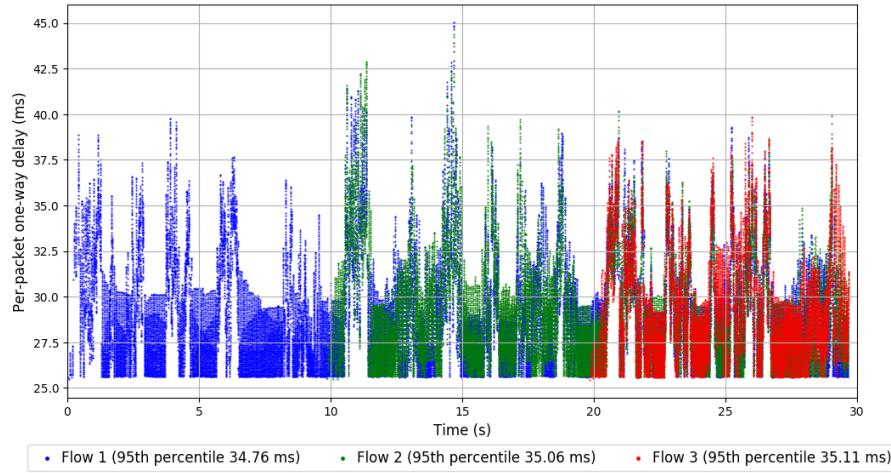
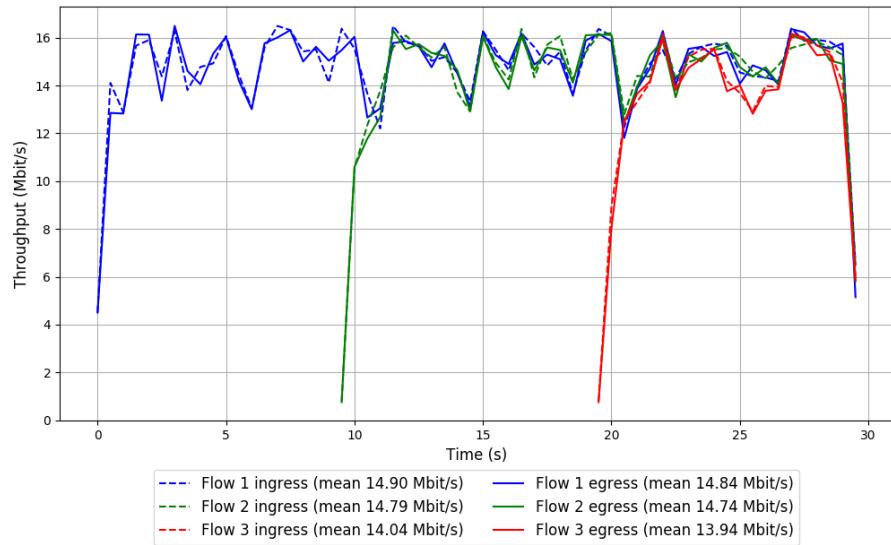


Run 9: Statistics of Sprout

```
Start at: 2018-01-17 02:48:54
End at: 2018-01-17 02:49:24
Local clock offset: -0.549 ms
Remote clock offset: -3.699 ms

# Below is generated by plot.py at 2018-01-17 07:50:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 29.33 Mbit/s
95th percentile per-packet one-way delay: 34.929 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 14.84 Mbit/s
95th percentile per-packet one-way delay: 34.756 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 14.74 Mbit/s
95th percentile per-packet one-way delay: 35.057 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 13.94 Mbit/s
95th percentile per-packet one-way delay: 35.107 ms
Loss rate: 1.26%
```

Run 9: Report of Sprout — Data Link

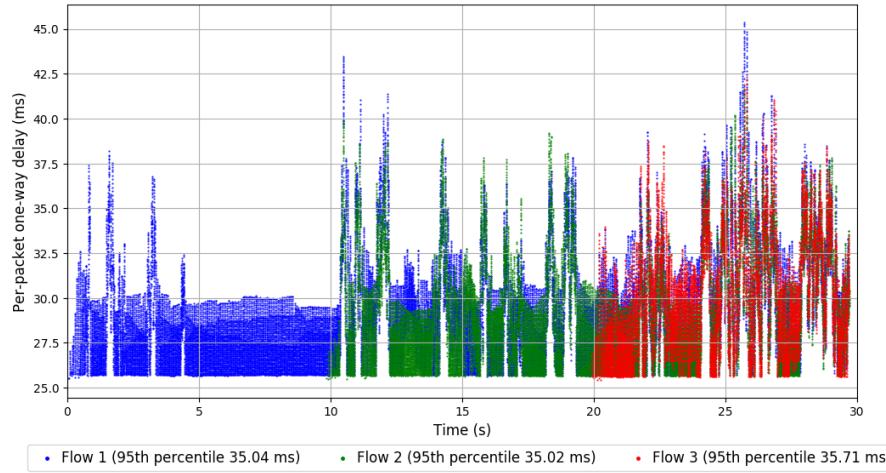
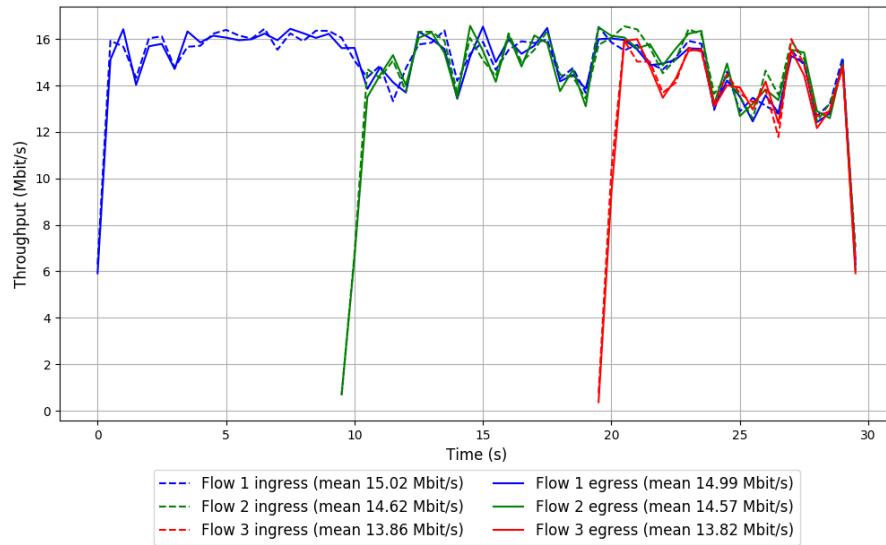


Run 10: Statistics of Sprout

```
Start at: 2018-01-17 03:14:02
End at: 2018-01-17 03:14:32
Local clock offset: -0.629 ms
Remote clock offset: -3.994 ms

# Below is generated by plot.py at 2018-01-17 07:50:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 29.31 Mbit/s
95th percentile per-packet one-way delay: 35.179 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 14.99 Mbit/s
95th percentile per-packet one-way delay: 35.038 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 14.57 Mbit/s
95th percentile per-packet one-way delay: 35.020 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 13.82 Mbit/s
95th percentile per-packet one-way delay: 35.706 ms
Loss rate: 0.87%
```

## Run 10: Report of Sprout — Data Link

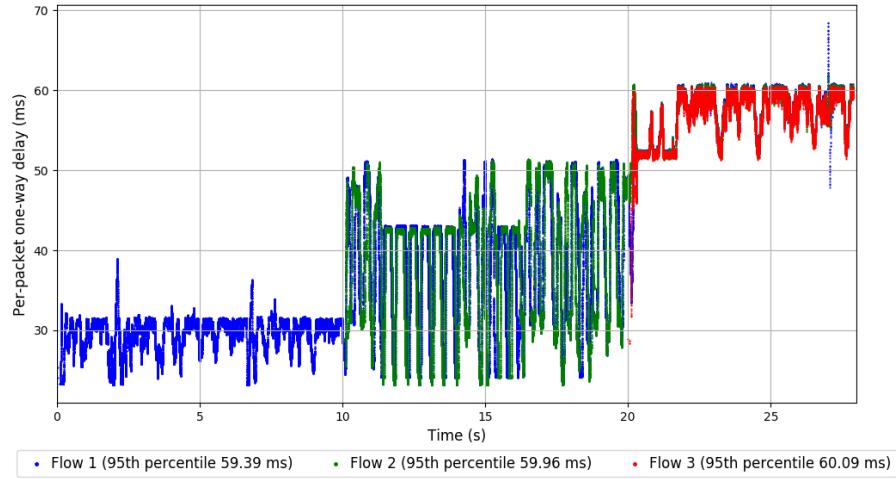
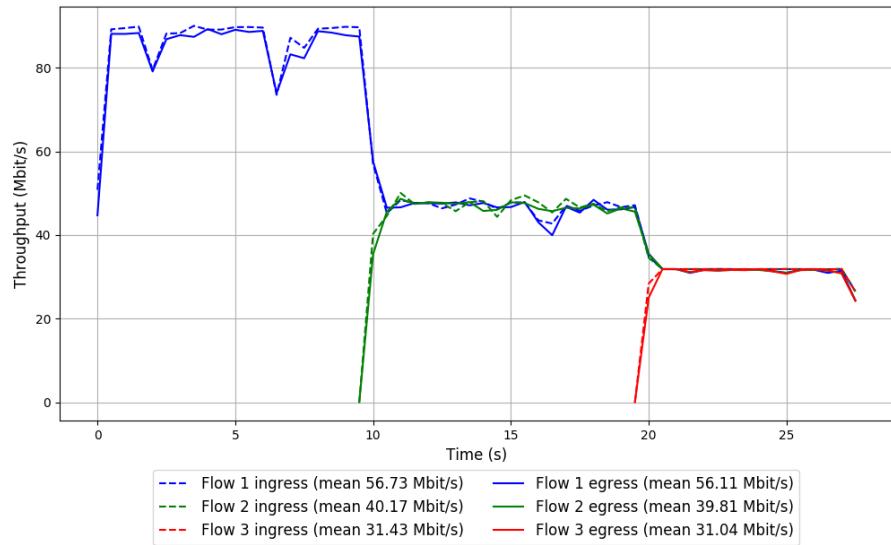


Run 1: Statistics of TaoVA-100x

```
Start at: 2018-01-16 23:04:13
End at: 2018-01-16 23:04:43
Local clock offset: 0.628 ms
Remote clock offset: -3.294 ms

# Below is generated by plot.py at 2018-01-17 07:52:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.47 Mbit/s
95th percentile per-packet one-way delay: 59.847 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 56.11 Mbit/s
95th percentile per-packet one-way delay: 59.389 ms
Loss rate: 1.35%
-- Flow 2:
Average throughput: 39.81 Mbit/s
95th percentile per-packet one-way delay: 59.956 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 31.04 Mbit/s
95th percentile per-packet one-way delay: 60.085 ms
Loss rate: 2.13%
```

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

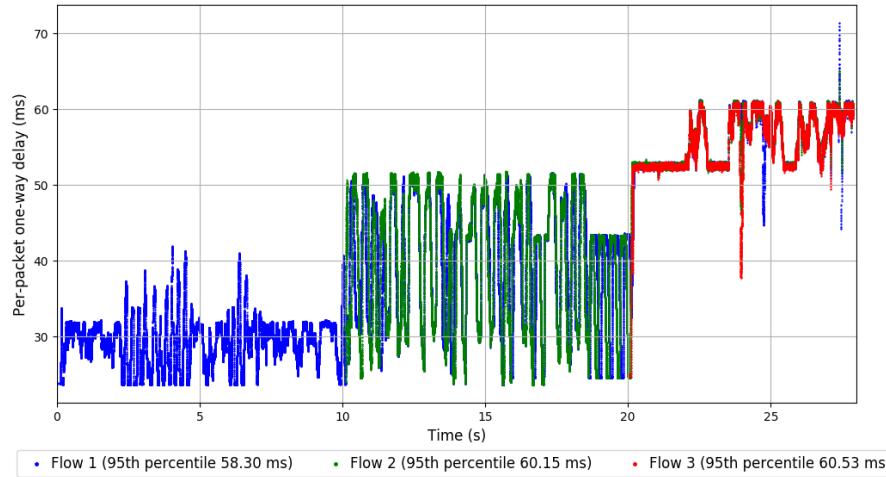
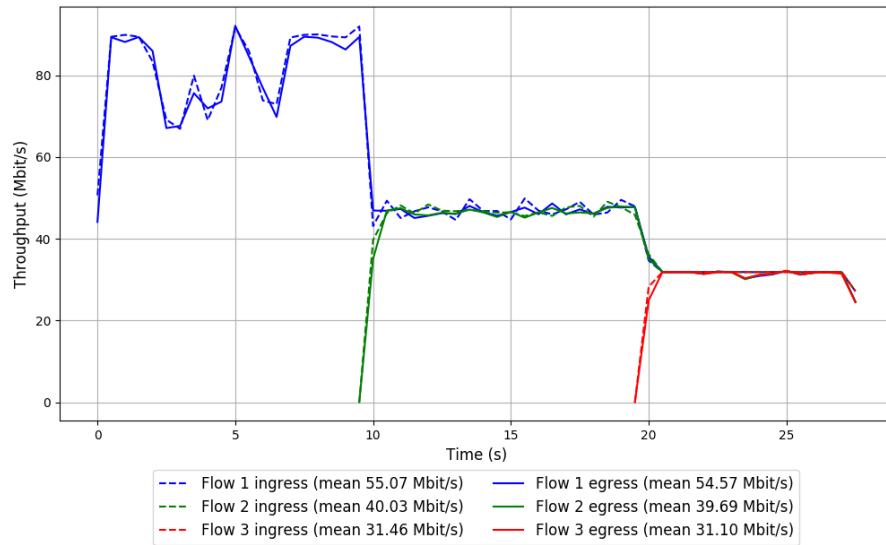


Run 2: Statistics of TaoVA-100x

```
Start at: 2018-01-16 23:30:27
End at: 2018-01-16 23:30:57
Local clock offset: 0.893 ms
Remote clock offset: -2.663 ms

# Below is generated by plot.py at 2018-01-17 07:52:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.88 Mbit/s
95th percentile per-packet one-way delay: 59.945 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 54.57 Mbit/s
95th percentile per-packet one-way delay: 58.298 ms
Loss rate: 1.09%
-- Flow 2:
Average throughput: 39.69 Mbit/s
95th percentile per-packet one-way delay: 60.146 ms
Loss rate: 1.25%
-- Flow 3:
Average throughput: 31.10 Mbit/s
95th percentile per-packet one-way delay: 60.528 ms
Loss rate: 2.00%
```

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

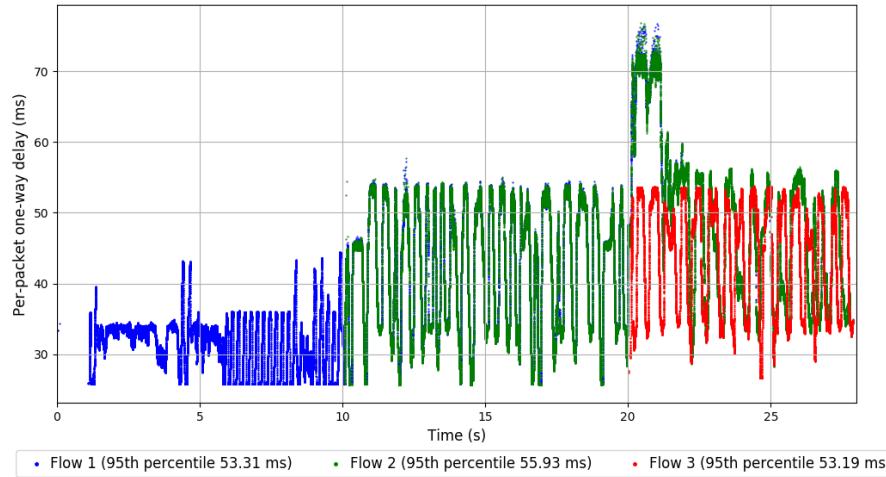
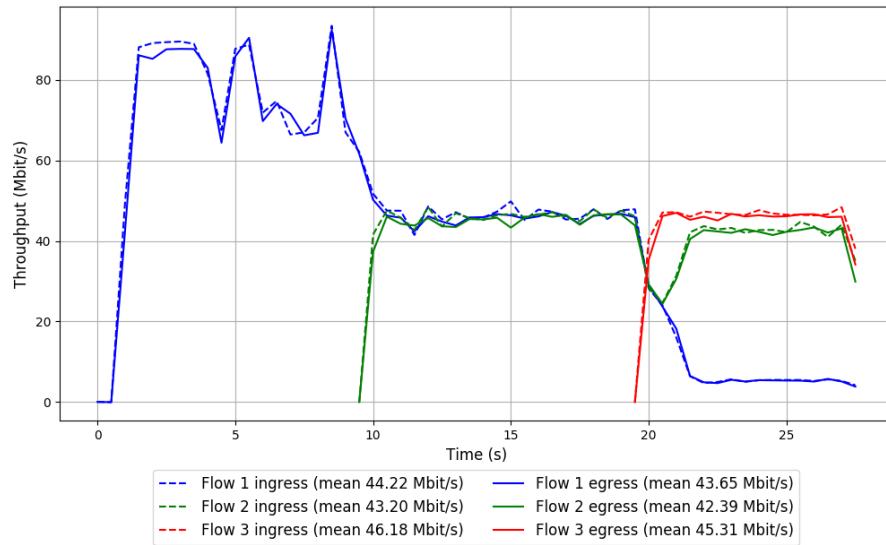


Run 3: Statistics of TaoVA-100x

```
Start at: 2018-01-16 23:57:36
End at: 2018-01-16 23:58:06
Local clock offset: 0.851 ms
Remote clock offset: -3.847 ms

# Below is generated by plot.py at 2018-01-17 07:52:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.75 Mbit/s
95th percentile per-packet one-way delay: 54.219 ms
Loss rate: 1.90%
-- Flow 1:
Average throughput: 43.65 Mbit/s
95th percentile per-packet one-way delay: 53.310 ms
Loss rate: 1.50%
-- Flow 2:
Average throughput: 42.39 Mbit/s
95th percentile per-packet one-way delay: 55.933 ms
Loss rate: 2.19%
-- Flow 3:
Average throughput: 45.31 Mbit/s
95th percentile per-packet one-way delay: 53.188 ms
Loss rate: 2.61%
```

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

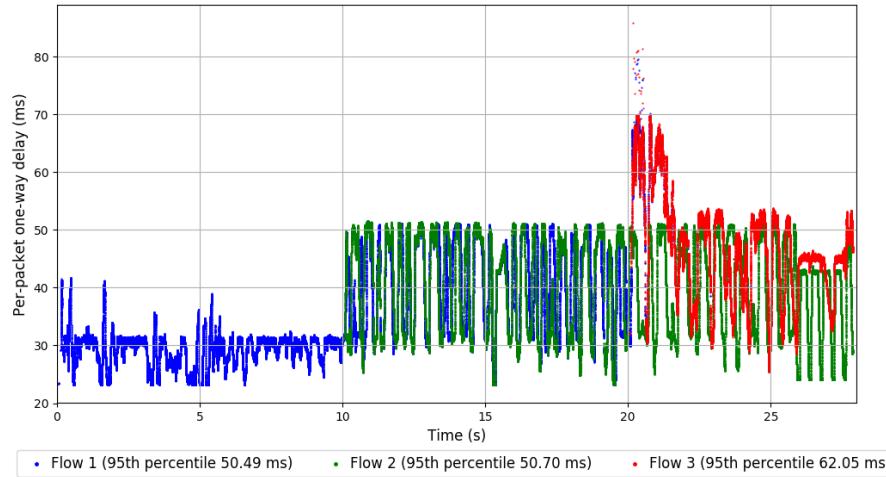
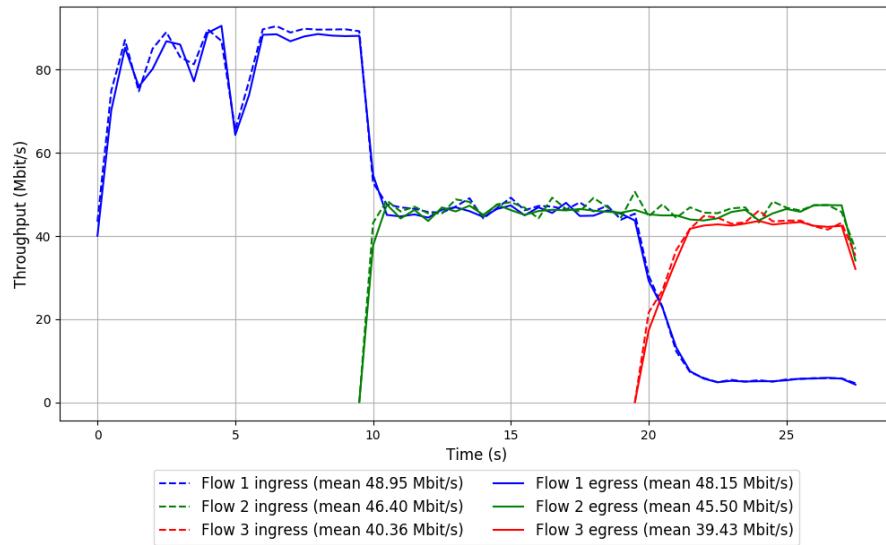


Run 4: Statistics of TaoVA-100x

```
Start at: 2018-01-17 00:24:47
End at: 2018-01-17 00:25:17
Local clock offset: 0.522 ms
Remote clock offset: -0.902 ms

# Below is generated by plot.py at 2018-01-17 07:52:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.57 Mbit/s
95th percentile per-packet one-way delay: 50.996 ms
Loss rate: 2.13%
-- Flow 1:
Average throughput: 48.15 Mbit/s
95th percentile per-packet one-way delay: 50.487 ms
Loss rate: 1.82%
-- Flow 2:
Average throughput: 45.50 Mbit/s
95th percentile per-packet one-way delay: 50.697 ms
Loss rate: 2.28%
-- Flow 3:
Average throughput: 39.43 Mbit/s
95th percentile per-packet one-way delay: 62.045 ms
Loss rate: 3.07%
```

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

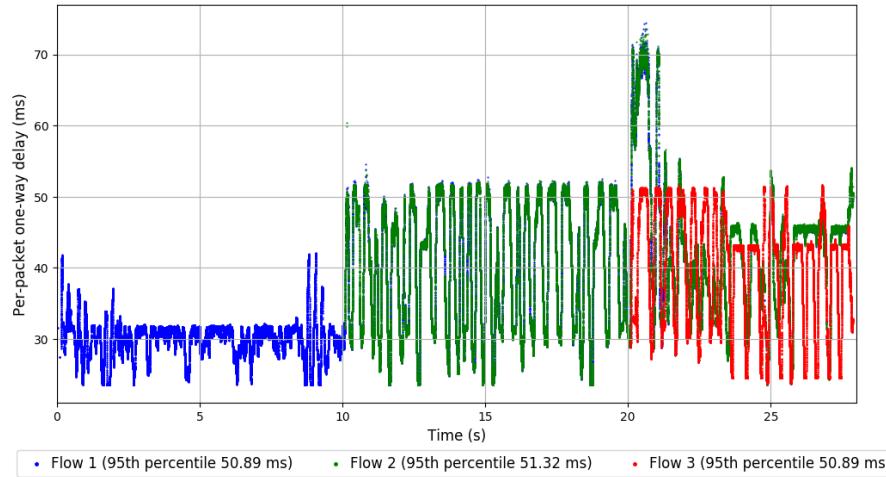
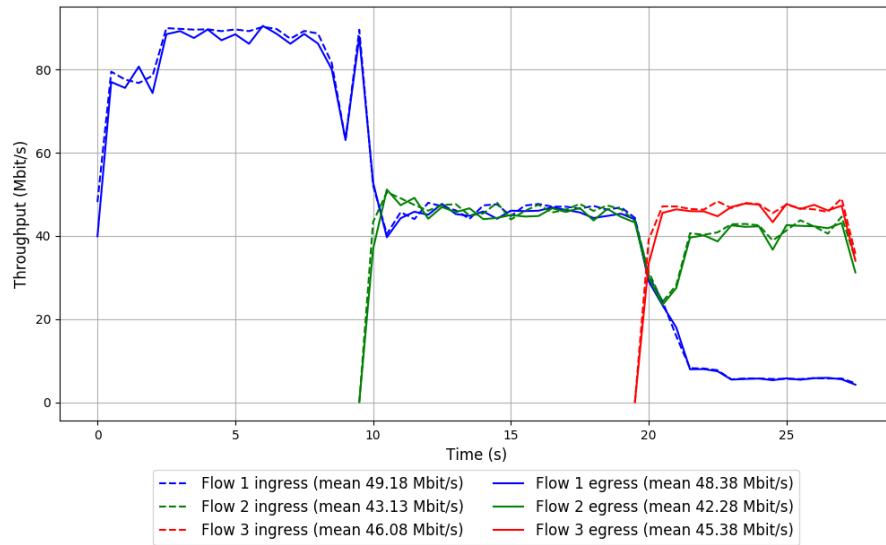


Run 5: Statistics of TaoVA-100x

```
Start at: 2018-01-17 00:52:21
End at: 2018-01-17 00:52:51
Local clock offset: 0.218 ms
Remote clock offset: -1.561 ms

# Below is generated by plot.py at 2018-01-17 07:52:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.43 Mbit/s
95th percentile per-packet one-way delay: 51.058 ms
Loss rate: 2.04%
-- Flow 1:
Average throughput: 48.38 Mbit/s
95th percentile per-packet one-way delay: 50.894 ms
Loss rate: 1.84%
-- Flow 2:
Average throughput: 42.28 Mbit/s
95th percentile per-packet one-way delay: 51.319 ms
Loss rate: 2.28%
-- Flow 3:
Average throughput: 45.38 Mbit/s
95th percentile per-packet one-way delay: 50.892 ms
Loss rate: 2.27%
```

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

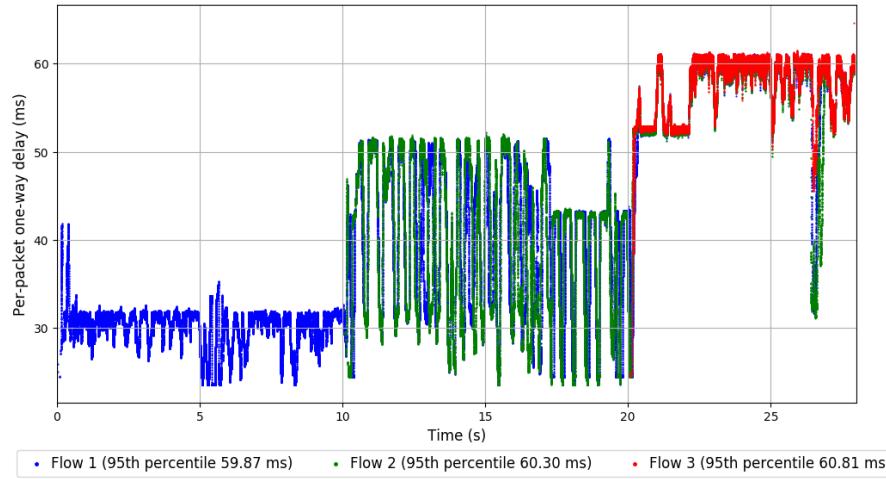
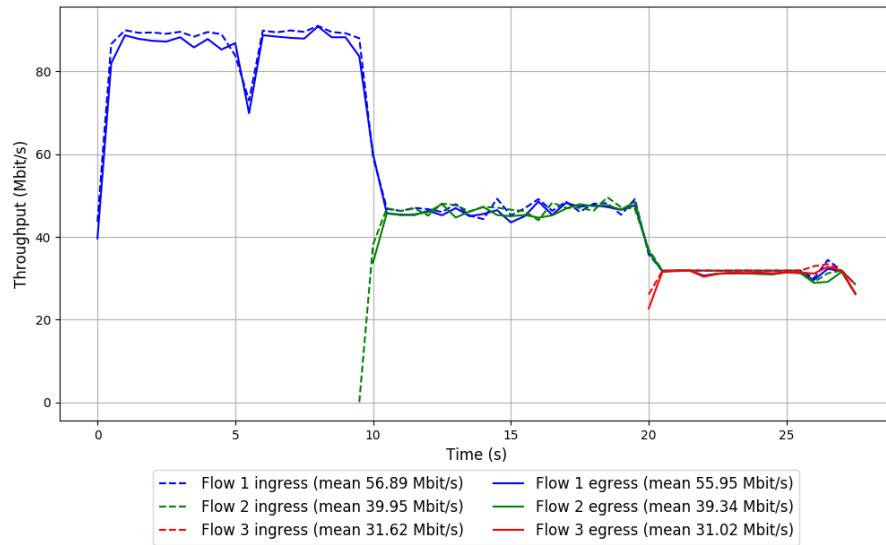


Run 6: Statistics of TaoVA-100x

```
Start at: 2018-01-17 01:19:59
End at: 2018-01-17 01:20:29
Local clock offset: -0.063 ms
Remote clock offset: -1.571 ms

# Below is generated by plot.py at 2018-01-17 07:52:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.96 Mbit/s
95th percentile per-packet one-way delay: 60.368 ms
Loss rate: 1.98%
-- Flow 1:
Average throughput: 55.95 Mbit/s
95th percentile per-packet one-way delay: 59.868 ms
Loss rate: 1.88%
-- Flow 2:
Average throughput: 39.34 Mbit/s
95th percentile per-packet one-way delay: 60.295 ms
Loss rate: 1.94%
-- Flow 3:
Average throughput: 31.02 Mbit/s
95th percentile per-packet one-way delay: 60.813 ms
Loss rate: 2.70%
```

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

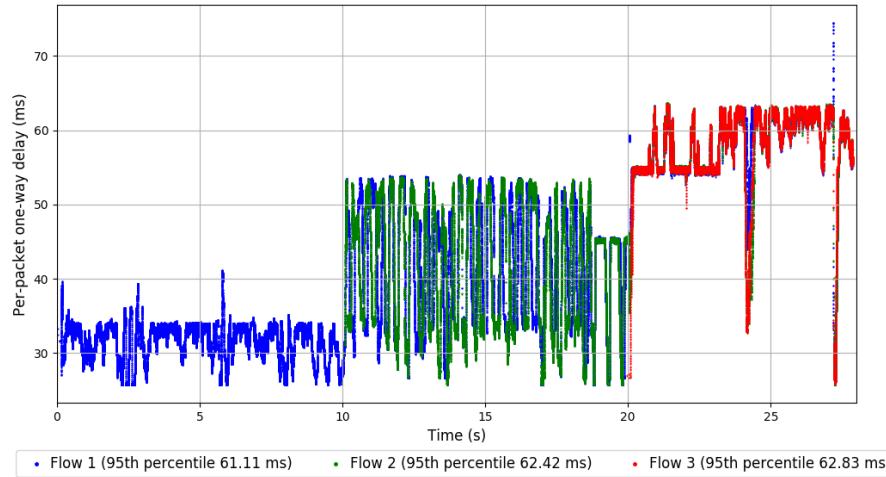
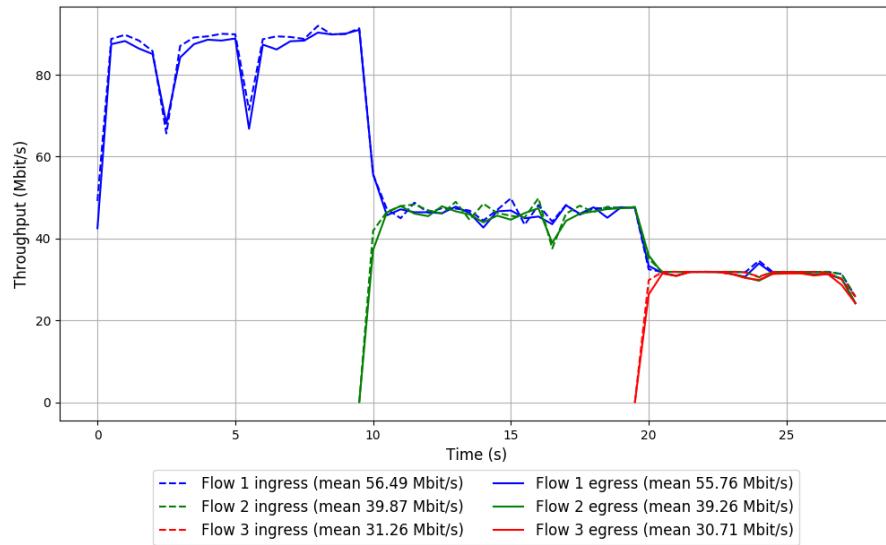


Run 7: Statistics of TaoVA-100x

```
Start at: 2018-01-17 01:47:28
End at: 2018-01-17 01:47:58
Local clock offset: -0.25 ms
Remote clock offset: -3.706 ms

# Below is generated by plot.py at 2018-01-17 07:53:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.72 Mbit/s
95th percentile per-packet one-way delay: 62.232 ms
Loss rate: 1.73%
-- Flow 1:
Average throughput: 55.76 Mbit/s
95th percentile per-packet one-way delay: 61.111 ms
Loss rate: 1.55%
-- Flow 2:
Average throughput: 39.26 Mbit/s
95th percentile per-packet one-way delay: 62.420 ms
Loss rate: 1.80%
-- Flow 3:
Average throughput: 30.71 Mbit/s
95th percentile per-packet one-way delay: 62.833 ms
Loss rate: 2.60%
```

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

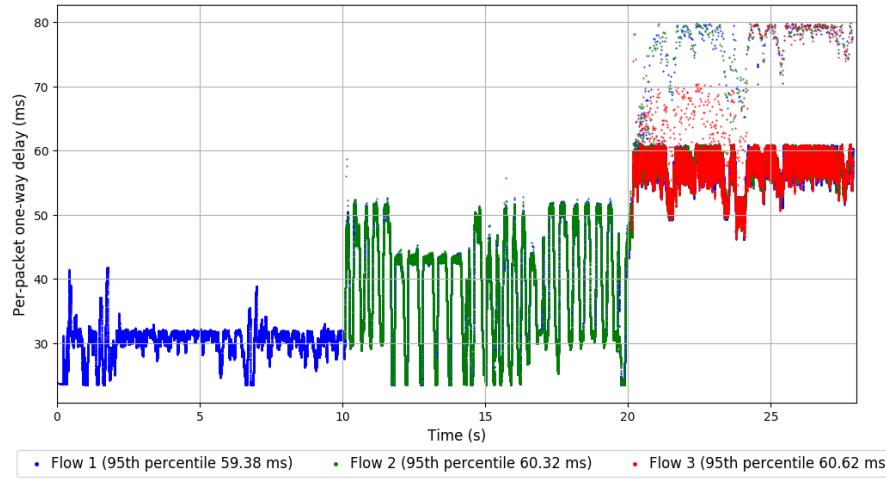
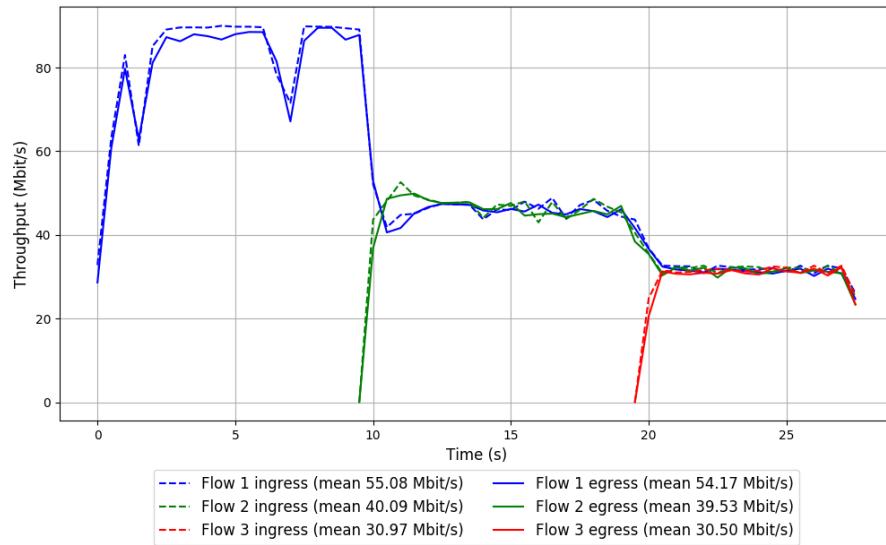


Run 8: Statistics of TaoVA-100x

```
Start at: 2018-01-17 02:14:32
End at: 2018-01-17 02:15:02
Local clock offset: -0.358 ms
Remote clock offset: -1.692 ms

# Below is generated by plot.py at 2018-01-17 07:53:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.16 Mbit/s
95th percentile per-packet one-way delay: 60.150 ms
Loss rate: 1.98%
-- Flow 1:
Average throughput: 54.17 Mbit/s
95th percentile per-packet one-way delay: 59.384 ms
Loss rate: 1.92%
-- Flow 2:
Average throughput: 39.53 Mbit/s
95th percentile per-packet one-way delay: 60.316 ms
Loss rate: 1.86%
-- Flow 3:
Average throughput: 30.50 Mbit/s
95th percentile per-packet one-way delay: 60.618 ms
Loss rate: 2.72%
```

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

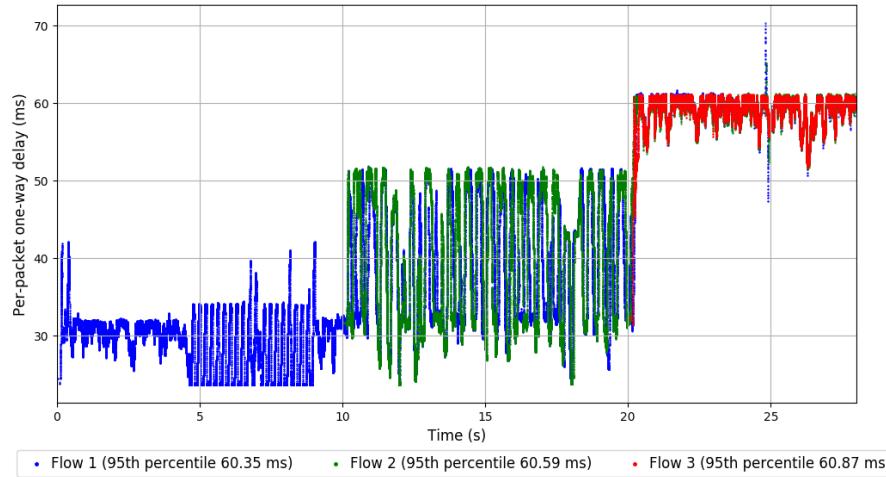
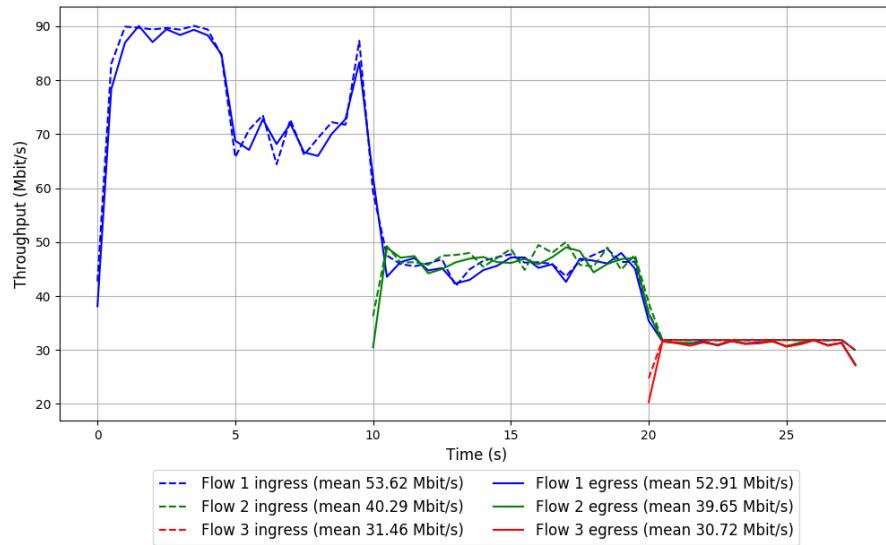


Run 9: Statistics of TaoVA-100x

```
Start at: 2018-01-17 02:41:35
End at: 2018-01-17 02:42:05
Local clock offset: -0.383 ms
Remote clock offset: -1.686 ms

# Below is generated by plot.py at 2018-01-17 07:54:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.03 Mbit/s
95th percentile per-packet one-way delay: 60.599 ms
Loss rate: 1.82%
-- Flow 1:
Average throughput: 52.91 Mbit/s
95th percentile per-packet one-way delay: 60.352 ms
Loss rate: 1.56%
-- Flow 2:
Average throughput: 39.65 Mbit/s
95th percentile per-packet one-way delay: 60.586 ms
Loss rate: 1.92%
-- Flow 3:
Average throughput: 30.72 Mbit/s
95th percentile per-packet one-way delay: 60.868 ms
Loss rate: 3.12%
```

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

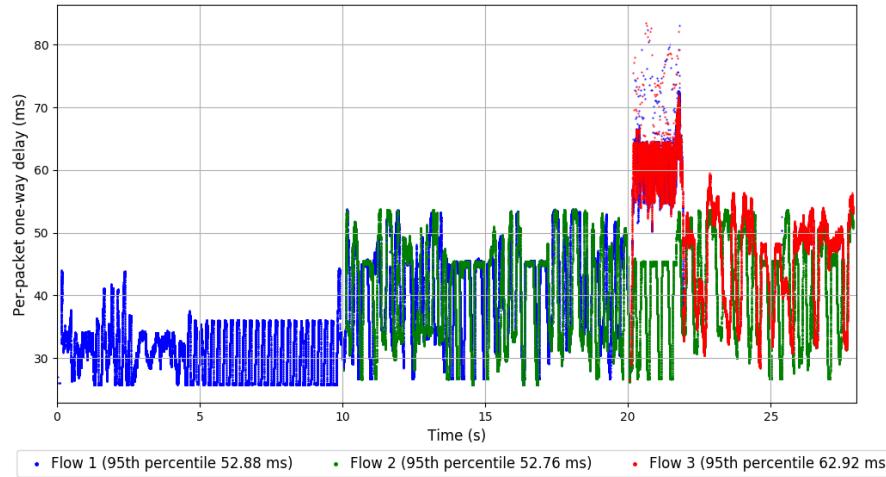
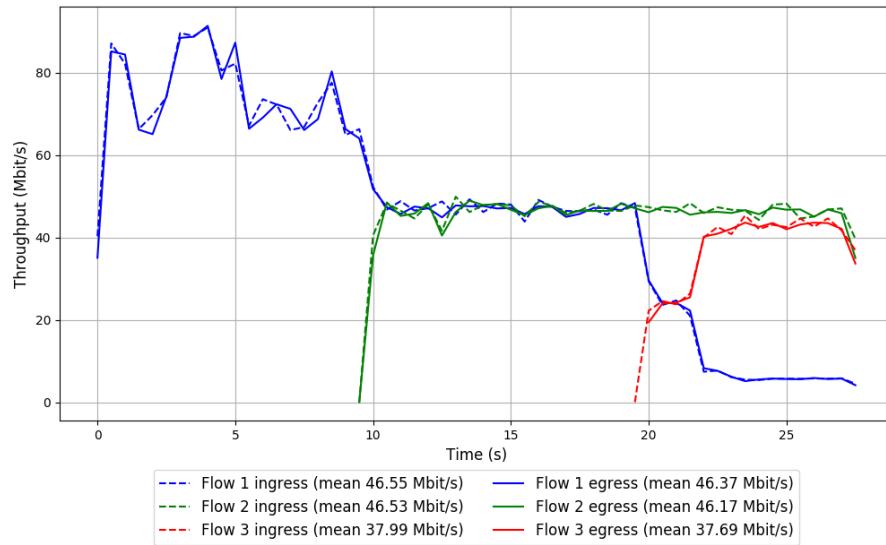


Run 10: Statistics of TaoVA-100x

```
Start at: 2018-01-17 03:06:55
End at: 2018-01-17 03:07:25
Local clock offset: -0.597 ms
Remote clock offset: -4.136 ms

# Below is generated by plot.py at 2018-01-17 07:54:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.70 Mbit/s
95th percentile per-packet one-way delay: 53.459 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 46.37 Mbit/s
95th percentile per-packet one-way delay: 52.877 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 46.17 Mbit/s
95th percentile per-packet one-way delay: 52.757 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 37.69 Mbit/s
95th percentile per-packet one-way delay: 62.920 ms
Loss rate: 1.63%
```

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

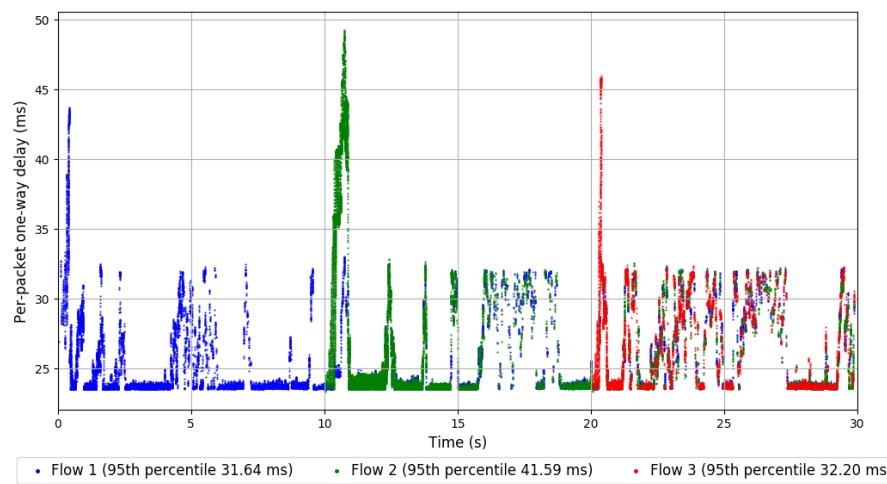
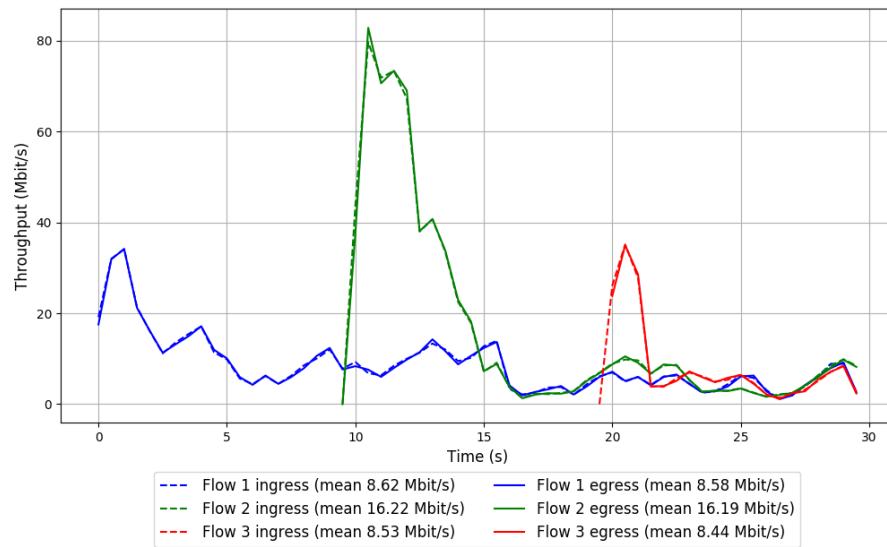


Run 1: Statistics of TCP Vegas

```
Start at: 2018-01-16 23:07:13
End at: 2018-01-16 23:07:43
Local clock offset: 0.685 ms
Remote clock offset: -3.534 ms

# Below is generated by plot.py at 2018-01-17 07:54:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 22.15 Mbit/s
95th percentile per-packet one-way delay: 36.919 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 8.58 Mbit/s
95th percentile per-packet one-way delay: 31.644 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 16.19 Mbit/s
95th percentile per-packet one-way delay: 41.586 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 8.44 Mbit/s
95th percentile per-packet one-way delay: 32.197 ms
Loss rate: 1.52%
```

Run 1: Report of TCP Vegas — Data Link

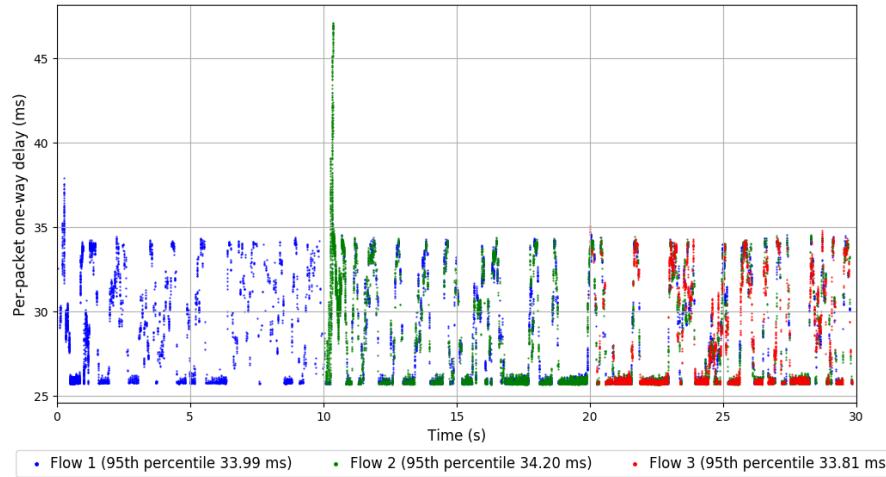
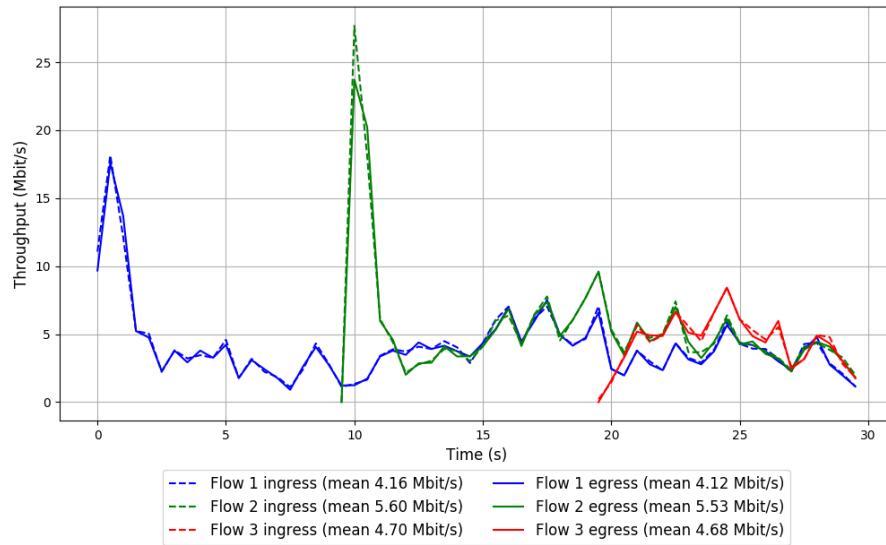


Run 2: Statistics of TCP Vegas

```
Start at: 2018-01-16 23:33:47
End at: 2018-01-16 23:34:17
Local clock offset: 0.808 ms
Remote clock offset: -4.626 ms

# Below is generated by plot.py at 2018-01-17 07:54:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 9.35 Mbit/s
95th percentile per-packet one-way delay: 34.050 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 4.12 Mbit/s
95th percentile per-packet one-way delay: 33.993 ms
Loss rate: 1.25%
-- Flow 2:
Average throughput: 5.53 Mbit/s
95th percentile per-packet one-way delay: 34.197 ms
Loss rate: 1.52%
-- Flow 3:
Average throughput: 4.68 Mbit/s
95th percentile per-packet one-way delay: 33.812 ms
Loss rate: 1.13%
```

## Run 2: Report of TCP Vegas — Data Link

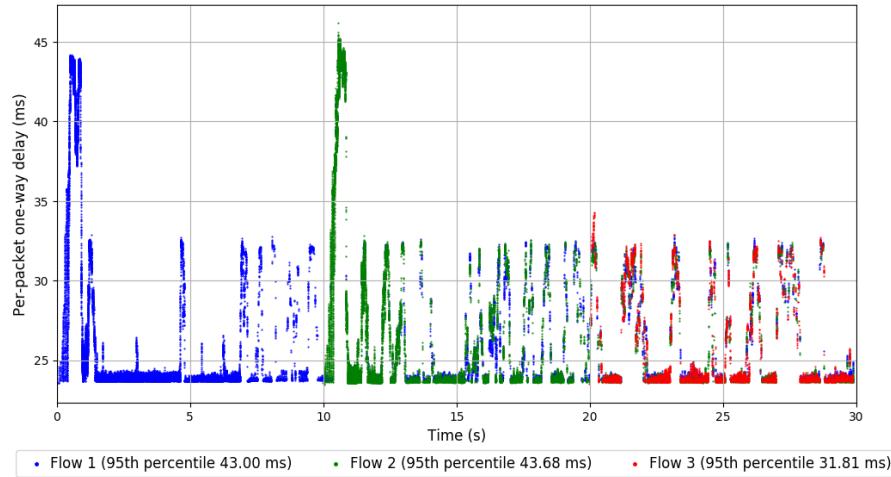
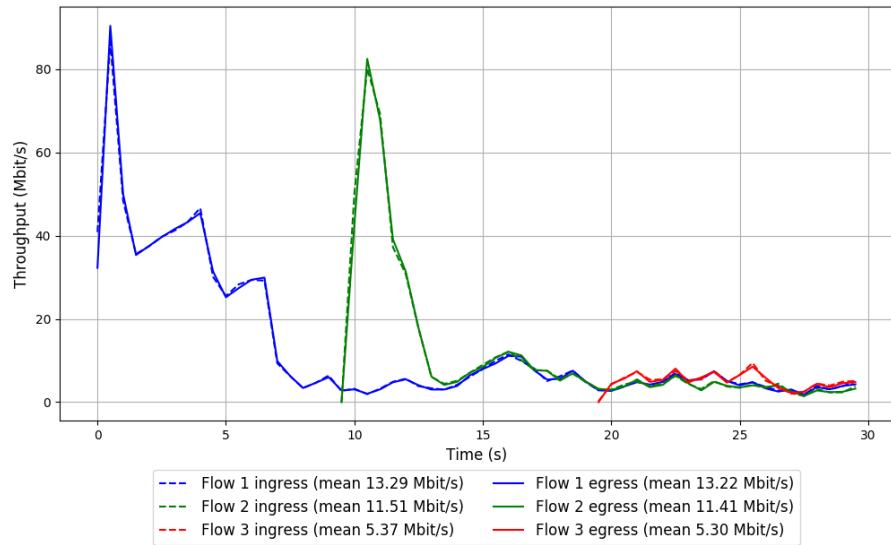


Run 3: Statistics of TCP Vegas

```
Start at: 2018-01-17 00:00:38
End at: 2018-01-17 00:01:08
Local clock offset: 0.801 ms
Remote clock offset: -1.707 ms

# Below is generated by plot.py at 2018-01-17 07:54:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 22.58 Mbit/s
95th percentile per-packet one-way delay: 43.321 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 13.22 Mbit/s
95th percentile per-packet one-way delay: 43.002 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 11.41 Mbit/s
95th percentile per-packet one-way delay: 43.679 ms
Loss rate: 1.21%
-- Flow 3:
Average throughput: 5.30 Mbit/s
95th percentile per-packet one-way delay: 31.810 ms
Loss rate: 1.84%
```

Run 3: Report of TCP Vegas — Data Link

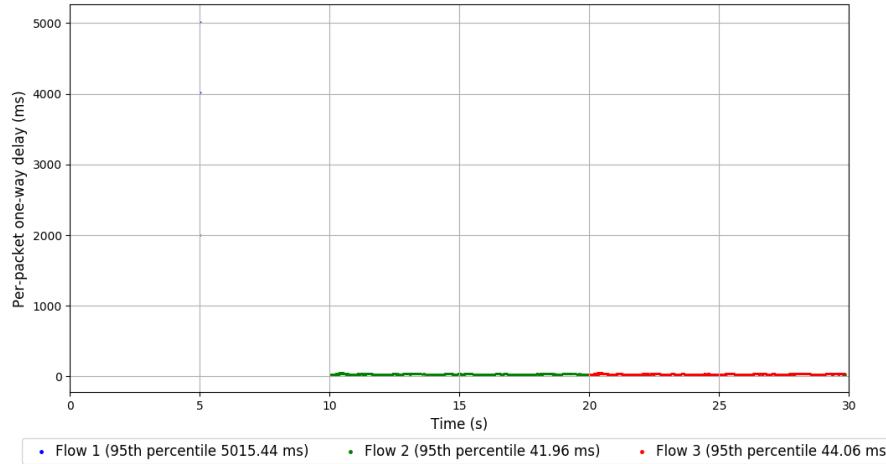
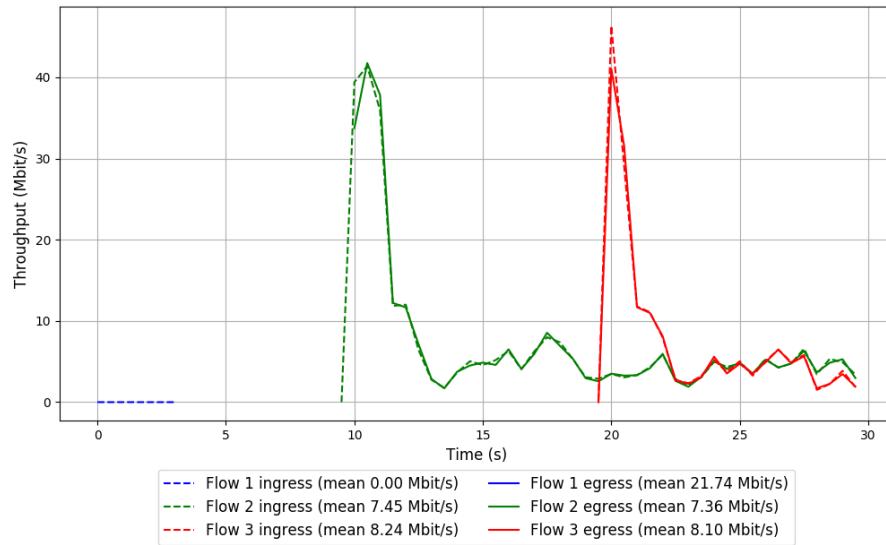


Run 4: Statistics of TCP Vegas

```
Start at: 2018-01-17 00:28:06
End at: 2018-01-17 00:28:36
Local clock offset: 0.513 ms
Remote clock offset: -1.434 ms

# Below is generated by plot.py at 2018-01-17 07:54:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 9.10 Mbit/s
95th percentile per-packet one-way delay: 43.812 ms
Loss rate: 1.78%
-- Flow 1:
Average throughput: 21.74 Mbit/s
95th percentile per-packet one-way delay: 5015.440 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.36 Mbit/s
95th percentile per-packet one-way delay: 41.959 ms
Loss rate: 1.50%
-- Flow 3:
Average throughput: 8.10 Mbit/s
95th percentile per-packet one-way delay: 44.063 ms
Loss rate: 2.29%
```

## Run 4: Report of TCP Vegas — Data Link

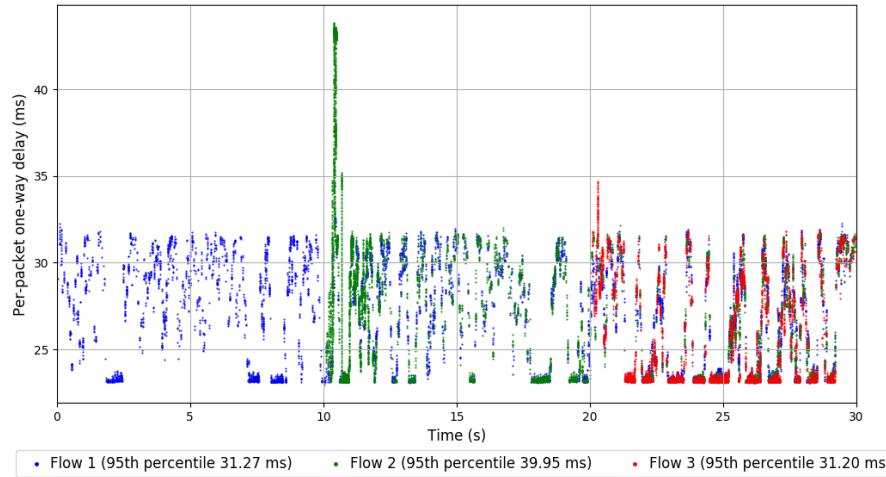
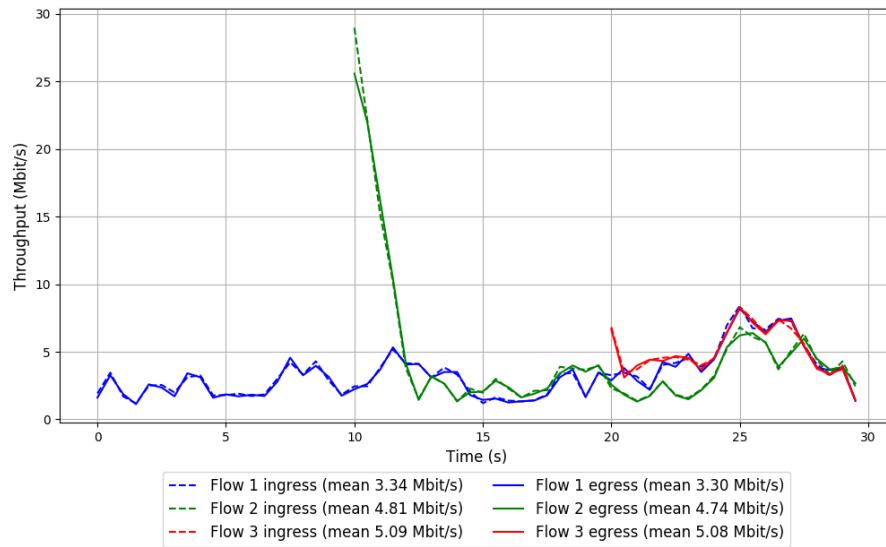


Run 5: Statistics of TCP Vegas

```
Start at: 2018-01-17 00:56:28
End at: 2018-01-17 00:56:58
Local clock offset: 0.16 ms
Remote clock offset: -1.136 ms

# Below is generated by plot.py at 2018-01-17 07:54:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.14 Mbit/s
95th percentile per-packet one-way delay: 31.557 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 3.30 Mbit/s
95th percentile per-packet one-way delay: 31.270 ms
Loss rate: 1.39%
-- Flow 2:
Average throughput: 4.74 Mbit/s
95th percentile per-packet one-way delay: 39.955 ms
Loss rate: 1.66%
-- Flow 3:
Average throughput: 5.08 Mbit/s
95th percentile per-packet one-way delay: 31.200 ms
Loss rate: 0.76%
```

## Run 5: Report of TCP Vegas — Data Link

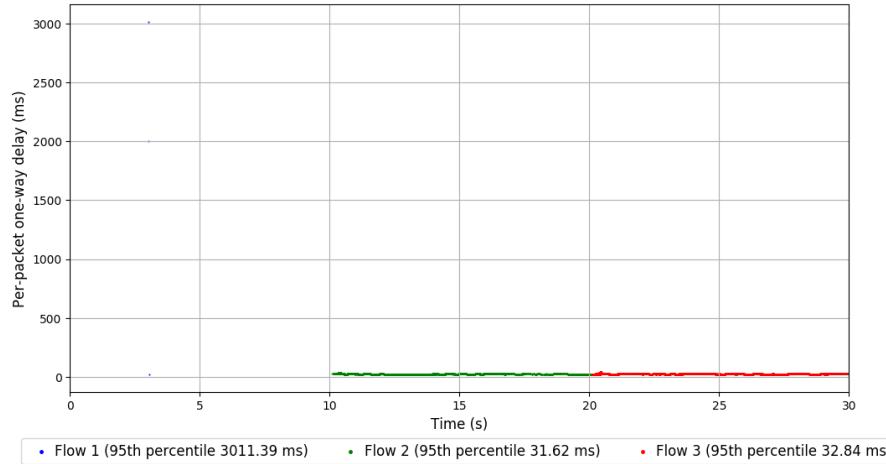
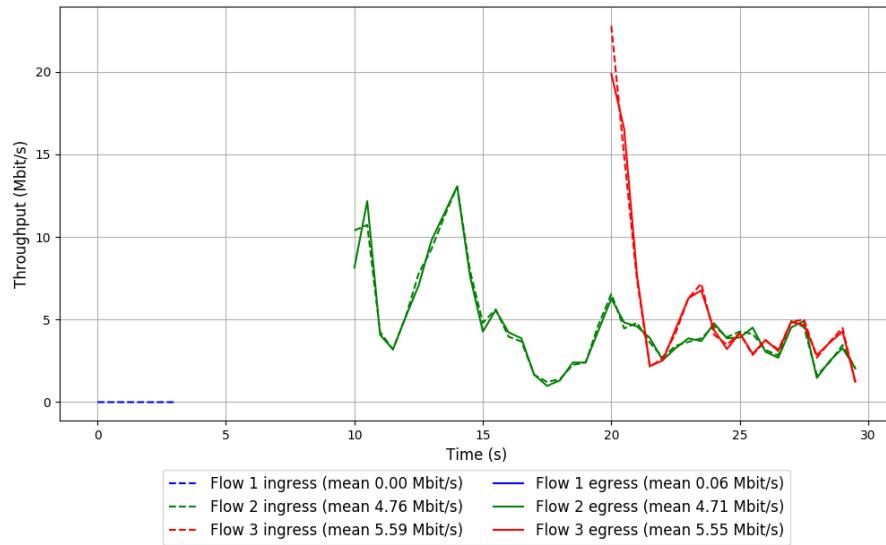


Run 6: Statistics of TCP Vegas

```
Start at: 2018-01-17 01:23:16
End at: 2018-01-17 01:23:46
Local clock offset: -0.032 ms
Remote clock offset: -1.16 ms

# Below is generated by plot.py at 2018-01-17 07:54:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.50 Mbit/s
95th percentile per-packet one-way delay: 31.868 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 3011.394 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.71 Mbit/s
95th percentile per-packet one-way delay: 31.616 ms
Loss rate: 1.33%
-- Flow 3:
Average throughput: 5.55 Mbit/s
95th percentile per-packet one-way delay: 32.845 ms
Loss rate: 1.39%
```

## Run 6: Report of TCP Vegas — Data Link

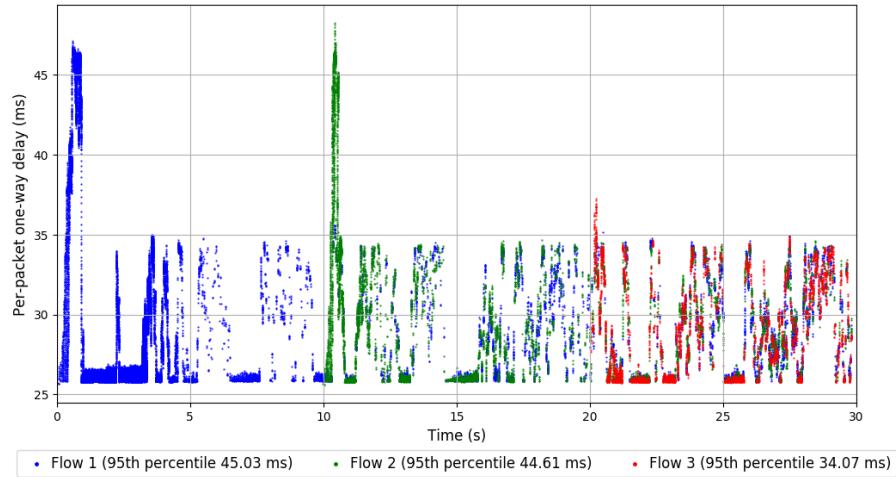
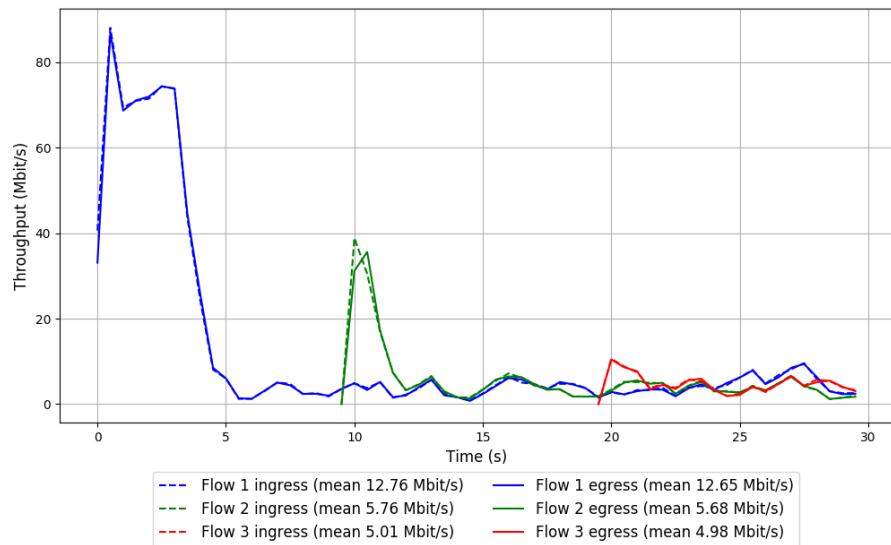


Run 7: Statistics of TCP Vegas

```
Start at: 2018-01-17 01:50:45
End at: 2018-01-17 01:51:15
Local clock offset: -0.198 ms
Remote clock offset: -3.648 ms

# Below is generated by plot.py at 2018-01-17 07:54:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.07 Mbit/s
95th percentile per-packet one-way delay: 44.427 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 12.65 Mbit/s
95th percentile per-packet one-way delay: 45.030 ms
Loss rate: 1.02%
-- Flow 2:
Average throughput: 5.68 Mbit/s
95th percentile per-packet one-way delay: 44.606 ms
Loss rate: 1.69%
-- Flow 3:
Average throughput: 4.98 Mbit/s
95th percentile per-packet one-way delay: 34.066 ms
Loss rate: 1.19%
```

### Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

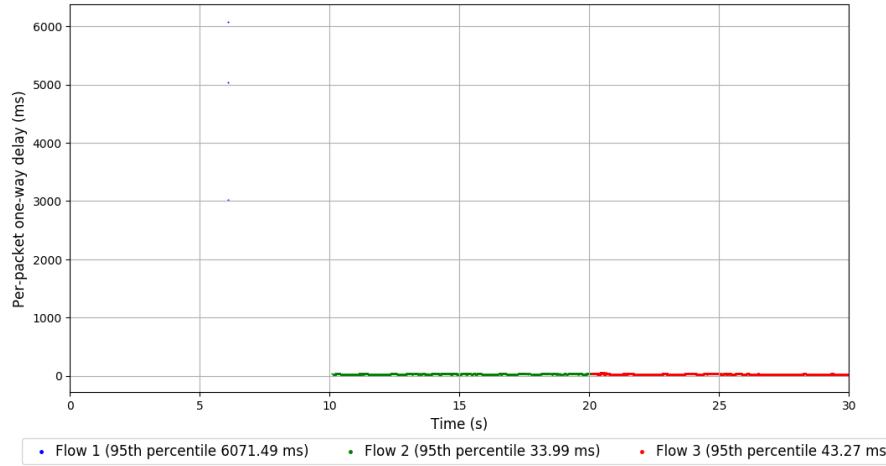
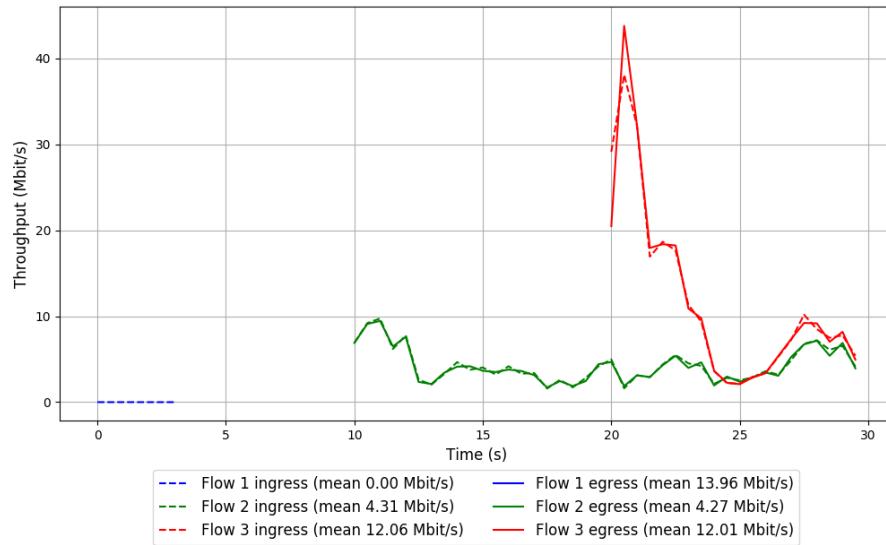
Start at: 2018-01-17 02:17:50

End at: 2018-01-17 02:18:20

Local clock offset: -0.364 ms

Remote clock offset: -3.745 ms

## Run 8: Report of TCP Vegas — Data Link

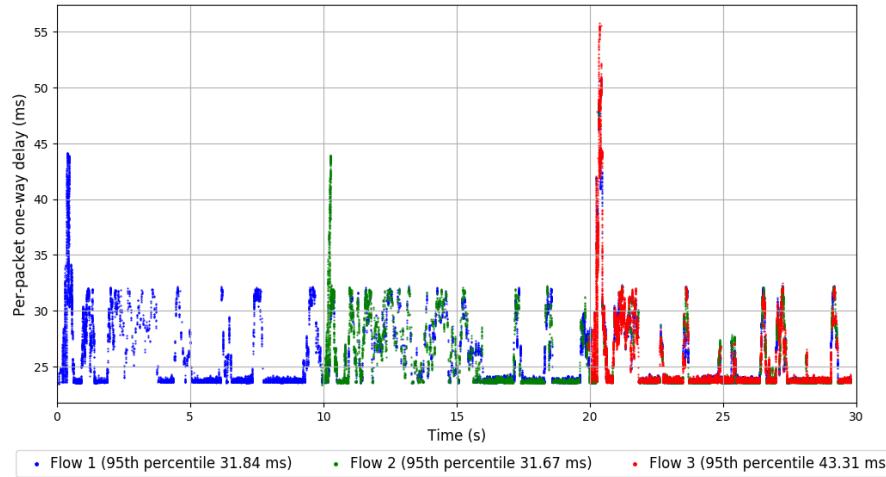
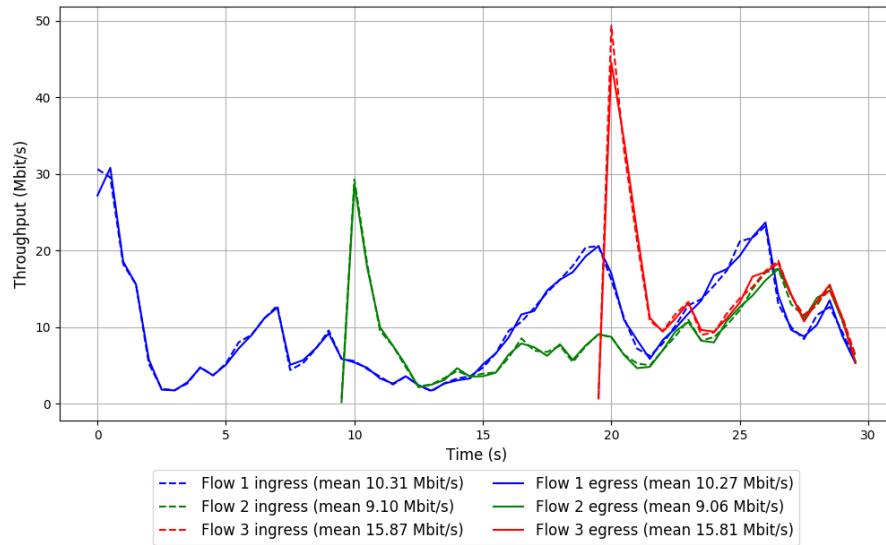


Run 9: Statistics of TCP Vegas

```
Start at: 2018-01-17 02:44:45
End at: 2018-01-17 02:45:15
Local clock offset: -0.537 ms
Remote clock offset: -1.624 ms

# Below is generated by plot.py at 2018-01-17 07:54:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 21.58 Mbit/s
95th percentile per-packet one-way delay: 32.061 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 10.27 Mbit/s
95th percentile per-packet one-way delay: 31.844 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 9.06 Mbit/s
95th percentile per-packet one-way delay: 31.668 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 15.81 Mbit/s
95th percentile per-packet one-way delay: 43.313 ms
Loss rate: 0.99%
```

### Run 9: Report of TCP Vegas — Data Link

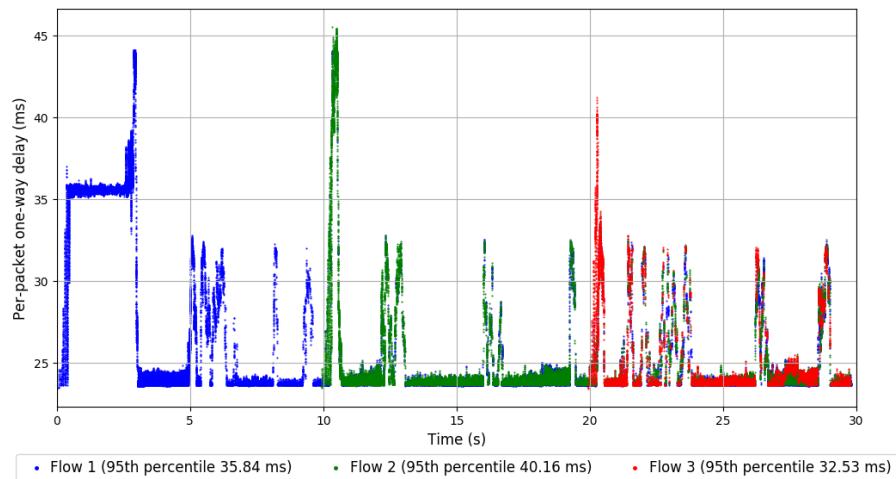
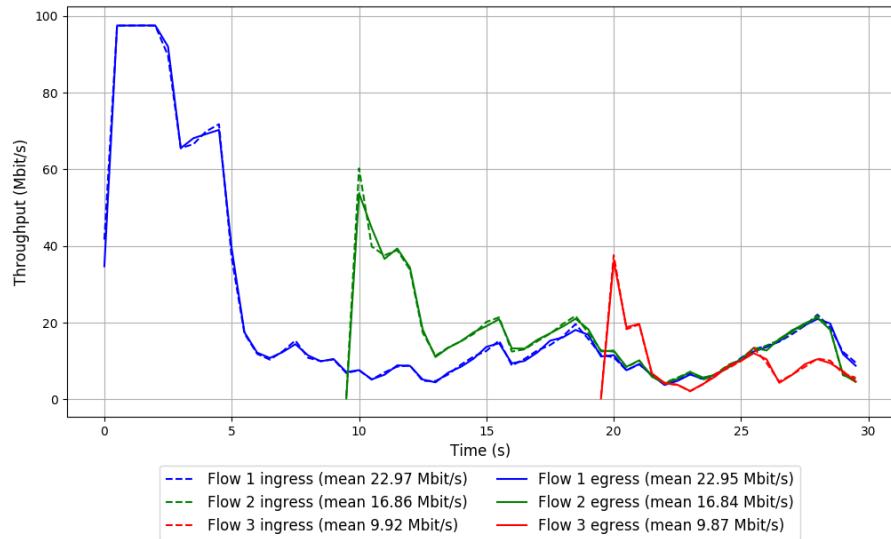


Run 10: Statistics of TCP Vegas

```
Start at: 2018-01-17 03:09:58
End at: 2018-01-17 03:10:28
Local clock offset: -0.659 ms
Remote clock offset: -1.969 ms

# Below is generated by plot.py at 2018-01-17 07:54:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 37.47 Mbit/s
95th percentile per-packet one-way delay: 35.860 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 22.95 Mbit/s
95th percentile per-packet one-way delay: 35.843 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 16.84 Mbit/s
95th percentile per-packet one-way delay: 40.165 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 9.87 Mbit/s
95th percentile per-packet one-way delay: 32.527 ms
Loss rate: 1.08%
```

Run 10: Report of TCP Vegas — Data Link

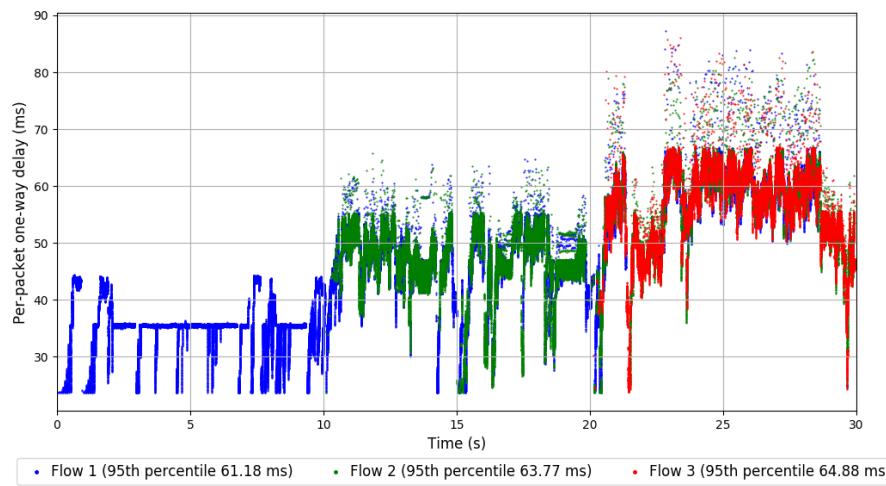
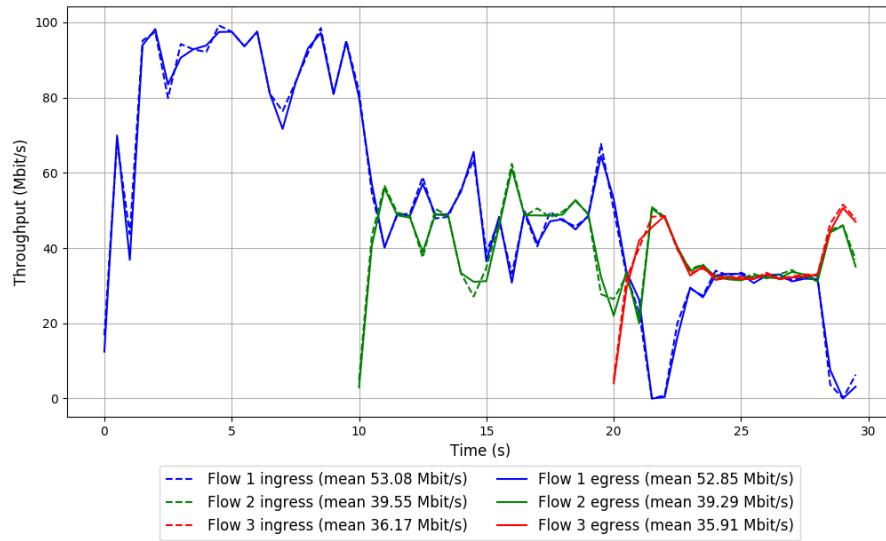


Run 1: Statistics of Verus

```
Start at: 2018-01-16 22:58:33
End at: 2018-01-16 22:59:03
Local clock offset: 0.618 ms
Remote clock offset: -3.84 ms

# Below is generated by plot.py at 2018-01-17 07:54:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.73 Mbit/s
95th percentile per-packet one-way delay: 63.161 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 52.85 Mbit/s
95th percentile per-packet one-way delay: 61.179 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 39.29 Mbit/s
95th percentile per-packet one-way delay: 63.765 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 35.91 Mbit/s
95th percentile per-packet one-way delay: 64.877 ms
Loss rate: 1.58%
```

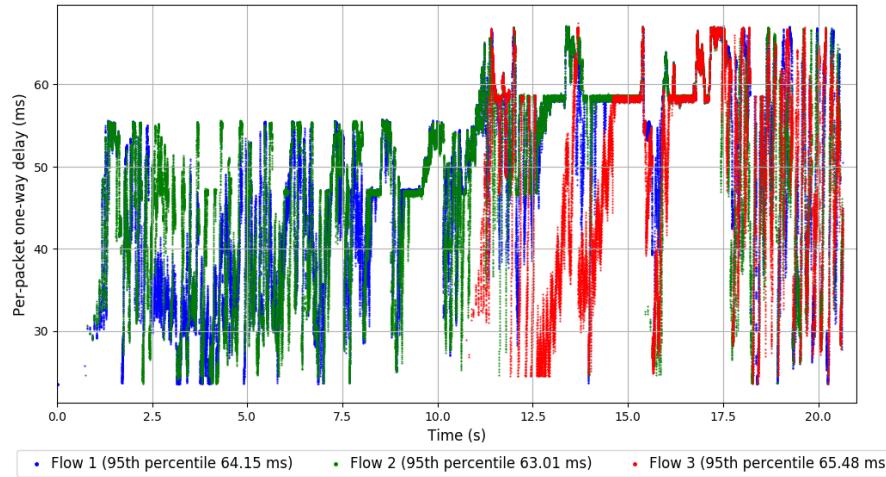
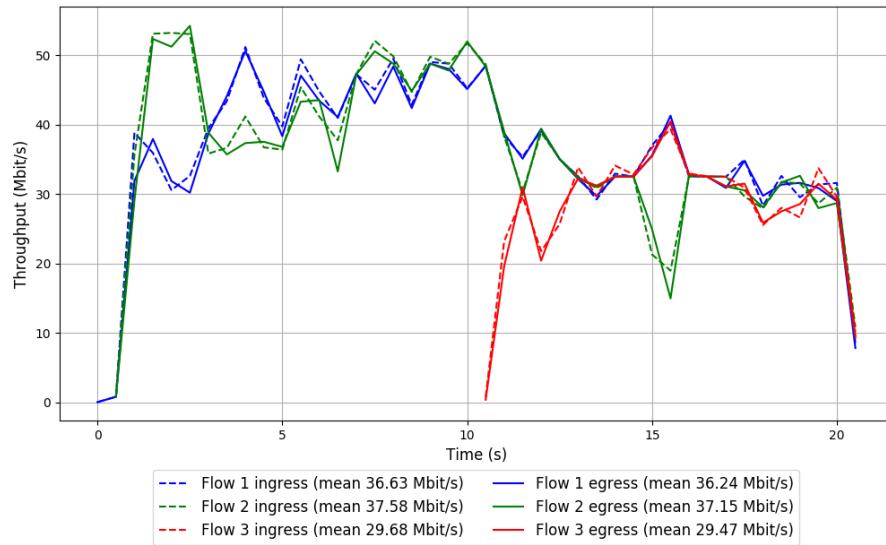
Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-01-16 23:24:35  
End at: 2018-01-16 23:25:05  
Local clock offset: 0.878 ms  
Remote clock offset: -2.798 ms

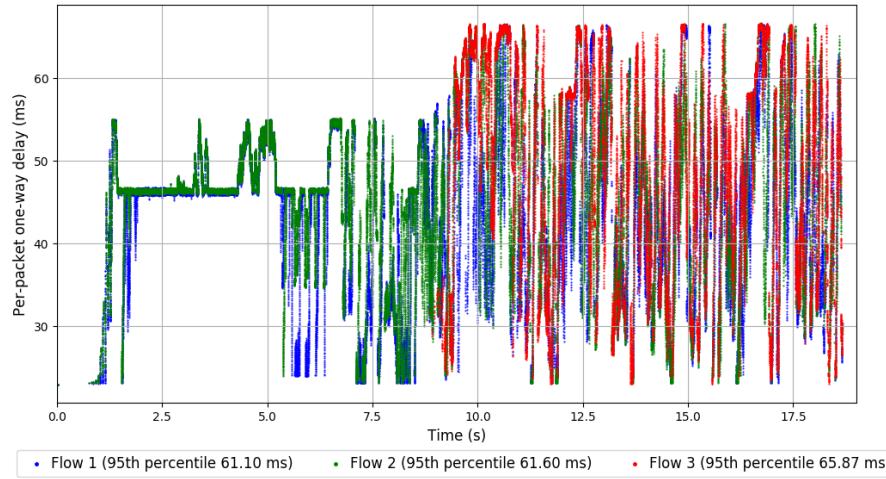
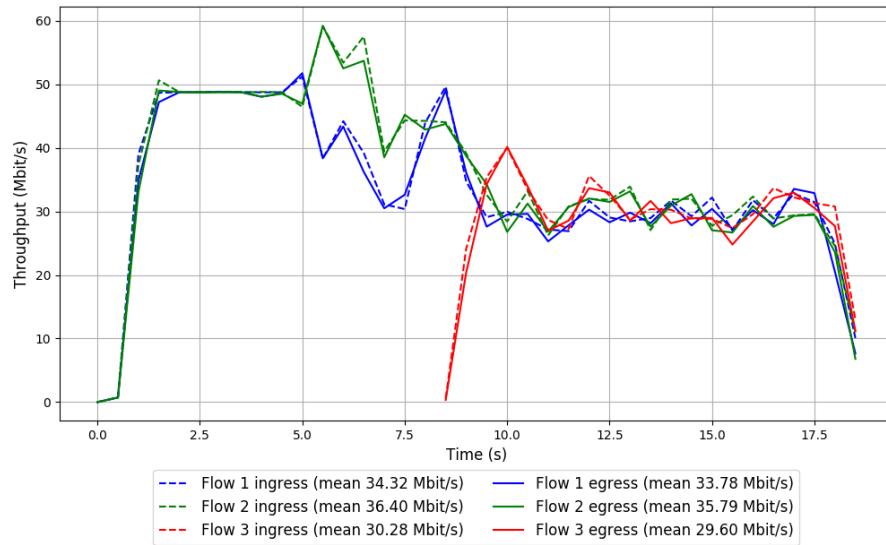
## Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-01-16 23:51:05  
End at: 2018-01-16 23:51:35  
Local clock offset: 0.812 ms  
Remote clock offset: -1.462 ms

### Run 3: Report of Verus — Data Link

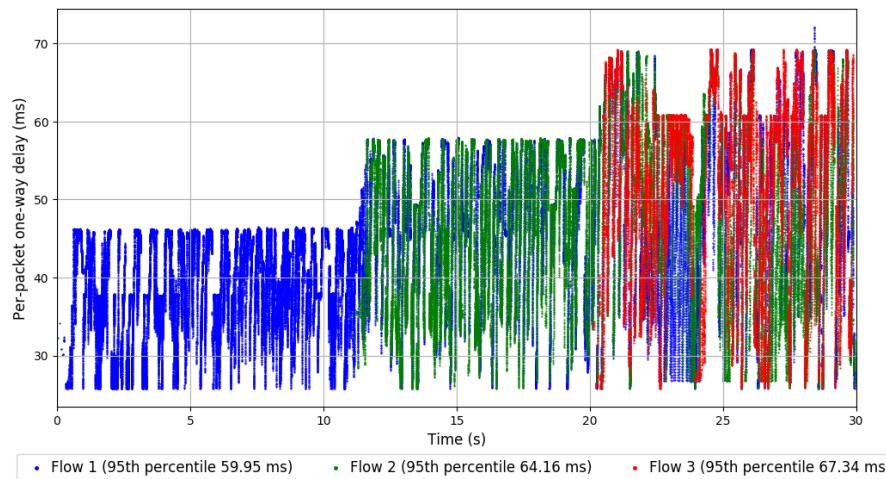
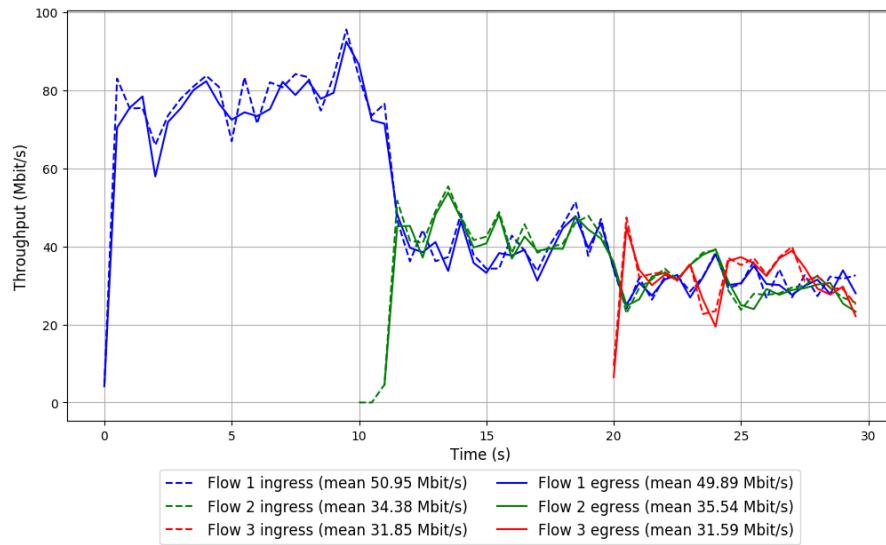


Run 4: Statistics of Verus

```
Start at: 2018-01-17 00:18:26
End at: 2018-01-17 00:18:56
Local clock offset: 0.636 ms
Remote clock offset: -3.565 ms

# Below is generated by plot.py at 2018-01-17 07:54:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.71 Mbit/s
95th percentile per-packet one-way delay: 64.070 ms
Loss rate: 2.22%
-- Flow 1:
Average throughput: 49.89 Mbit/s
95th percentile per-packet one-way delay: 59.954 ms
Loss rate: 2.28%
-- Flow 2:
Average throughput: 35.54 Mbit/s
95th percentile per-packet one-way delay: 64.157 ms
Loss rate: 2.13%
-- Flow 3:
Average throughput: 31.59 Mbit/s
95th percentile per-packet one-way delay: 67.343 ms
Loss rate: 2.07%
```

## Run 4: Report of Verus — Data Link

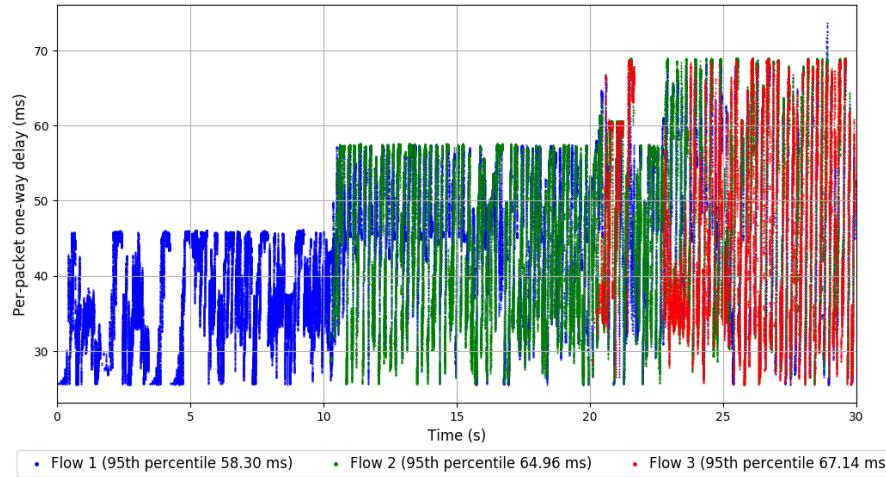
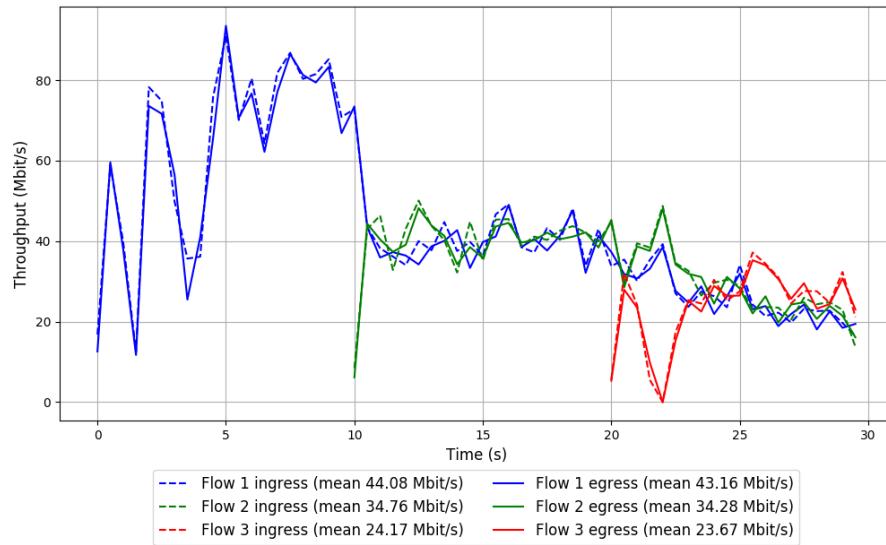


Run 5: Statistics of Verus

```
Start at: 2018-01-17 00:45:49
End at: 2018-01-17 00:46:19
Local clock offset: 0.281 ms
Remote clock offset: -3.357 ms

# Below is generated by plot.py at 2018-01-17 07:54:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 73.72 Mbit/s
95th percentile per-packet one-way delay: 63.026 ms
Loss rate: 2.11%
-- Flow 1:
Average throughput: 43.16 Mbit/s
95th percentile per-packet one-way delay: 58.301 ms
Loss rate: 2.25%
-- Flow 2:
Average throughput: 34.28 Mbit/s
95th percentile per-packet one-way delay: 64.962 ms
Loss rate: 1.82%
-- Flow 3:
Average throughput: 23.67 Mbit/s
95th percentile per-packet one-way delay: 67.145 ms
Loss rate: 2.16%
```

Run 5: Report of Verus — Data Link

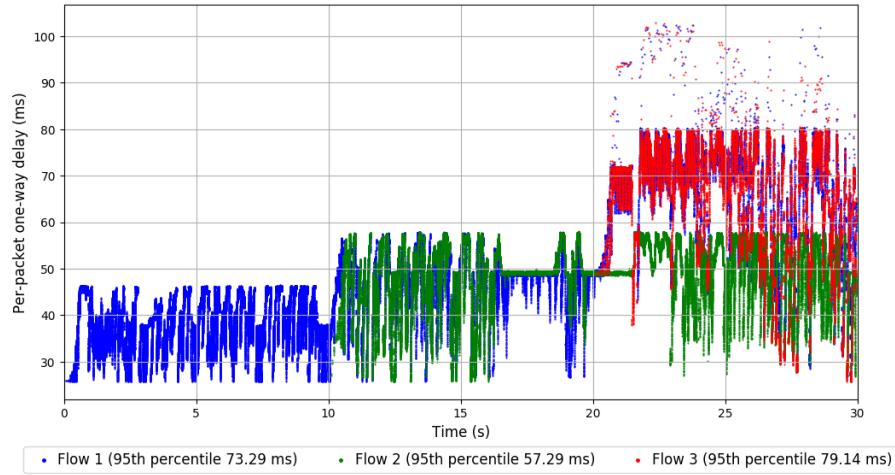
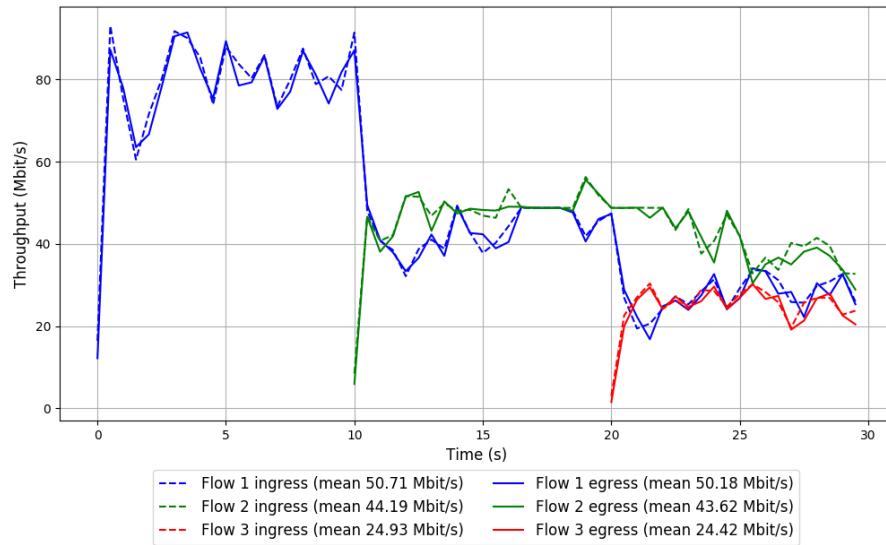


Run 6: Statistics of Verus

```
Start at: 2018-01-17 01:13:35
End at: 2018-01-17 01:14:05
Local clock offset: 0.099 ms
Remote clock offset: -3.739 ms

# Below is generated by plot.py at 2018-01-17 07:54:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.25 Mbit/s
95th percentile per-packet one-way delay: 74.144 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 50.18 Mbit/s
95th percentile per-packet one-way delay: 73.293 ms
Loss rate: 1.27%
-- Flow 2:
Average throughput: 43.62 Mbit/s
95th percentile per-packet one-way delay: 57.294 ms
Loss rate: 1.60%
-- Flow 3:
Average throughput: 24.42 Mbit/s
95th percentile per-packet one-way delay: 79.141 ms
Loss rate: 3.04%
```

Run 6: Report of Verus — Data Link

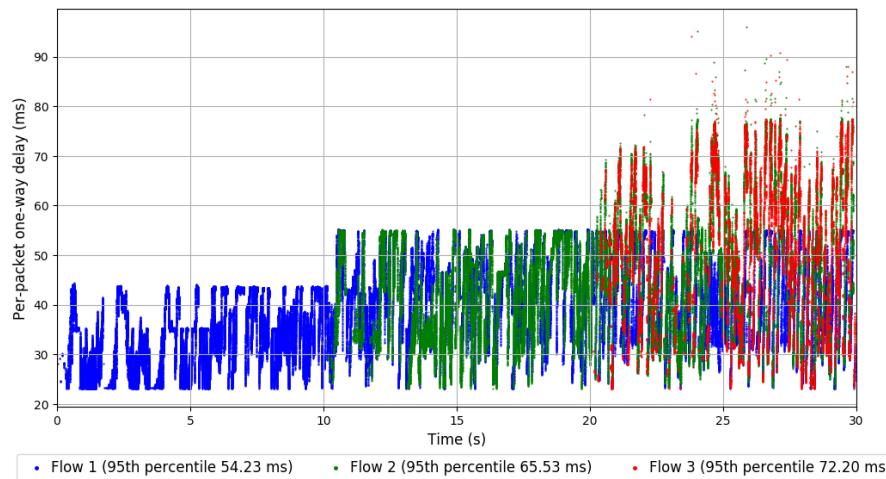
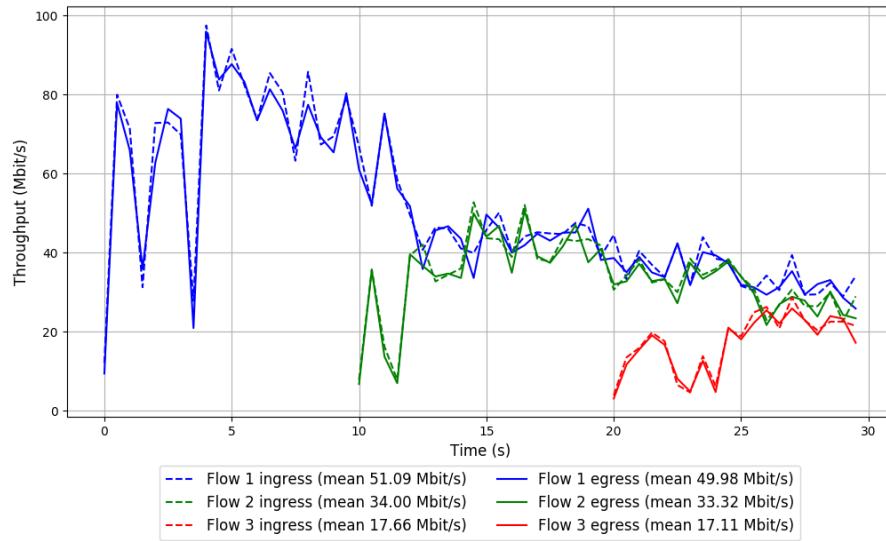


Run 7: Statistics of Verus

```
Start at: 2018-01-17 01:40:47
End at: 2018-01-17 01:41:17
Local clock offset: -0.191 ms
Remote clock offset: -1.074 ms

# Below is generated by plot.py at 2018-01-17 07:55:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.72 Mbit/s
95th percentile per-packet one-way delay: 59.124 ms
Loss rate: 2.56%
-- Flow 1:
Average throughput: 49.98 Mbit/s
95th percentile per-packet one-way delay: 54.229 ms
Loss rate: 2.39%
-- Flow 2:
Average throughput: 33.32 Mbit/s
95th percentile per-packet one-way delay: 65.535 ms
Loss rate: 2.57%
-- Flow 3:
Average throughput: 17.11 Mbit/s
95th percentile per-packet one-way delay: 72.203 ms
Loss rate: 3.99%
```

## Run 7: Report of Verus — Data Link

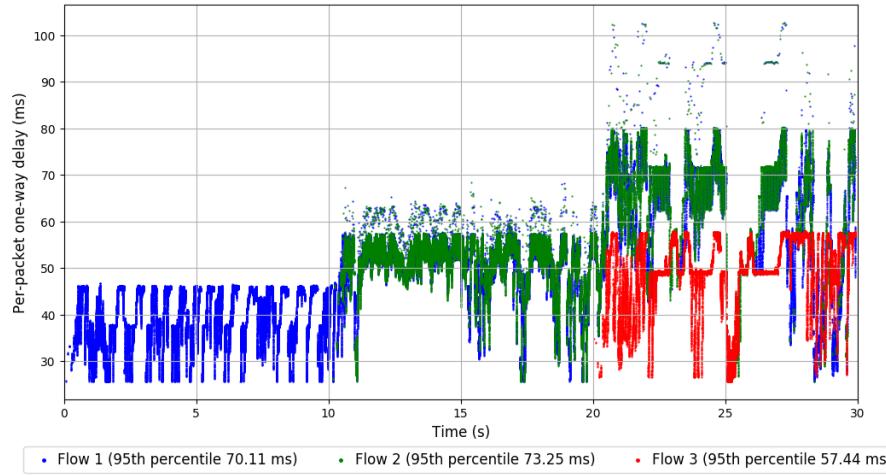
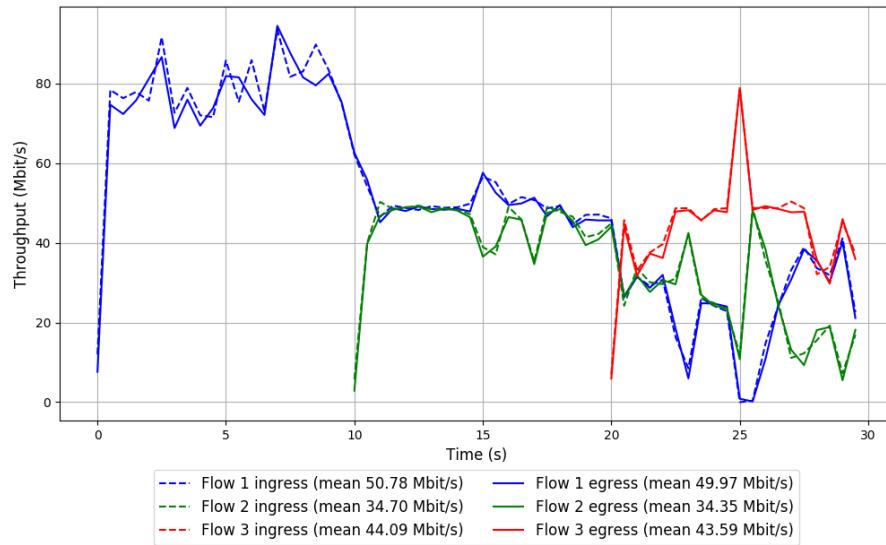


Run 8: Statistics of Verus

```
Start at: 2018-01-17 02:07:57
End at: 2018-01-17 02:08:27
Local clock offset: -0.256 ms
Remote clock offset: -3.674 ms

# Below is generated by plot.py at 2018-01-17 07:55:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.16 Mbit/s
95th percentile per-packet one-way delay: 71.267 ms
Loss rate: 1.66%
-- Flow 1:
Average throughput: 49.97 Mbit/s
95th percentile per-packet one-way delay: 70.109 ms
Loss rate: 1.79%
-- Flow 2:
Average throughput: 34.35 Mbit/s
95th percentile per-packet one-way delay: 73.251 ms
Loss rate: 1.35%
-- Flow 3:
Average throughput: 43.59 Mbit/s
95th percentile per-packet one-way delay: 57.442 ms
Loss rate: 1.71%
```

Run 8: Report of Verus — Data Link

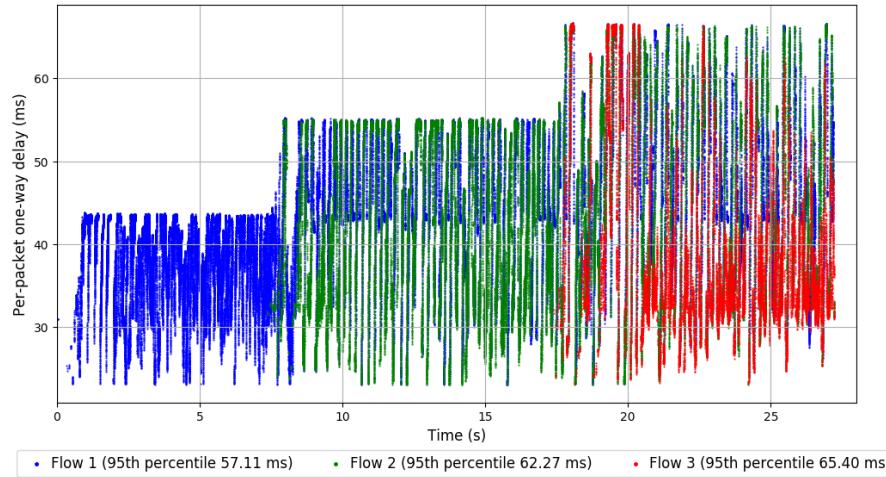
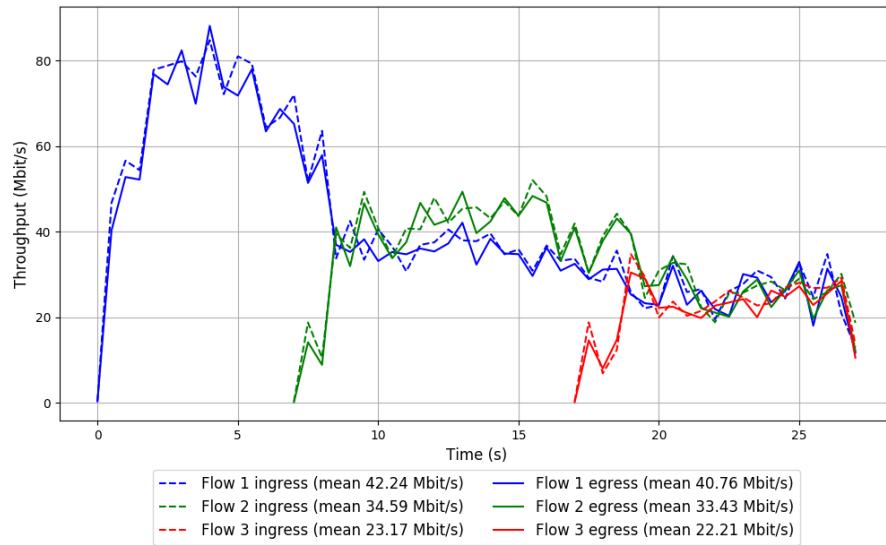


Run 9: Statistics of Verus

```
Start at: 2018-01-17 02:35:16
End at: 2018-01-17 02:35:46
Local clock offset: -0.381 ms
Remote clock offset: -1.144 ms

# Below is generated by plot.py at 2018-01-17 07:55:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 73.24 Mbit/s
95th percentile per-packet one-way delay: 60.542 ms
Loss rate: 3.63%
-- Flow 1:
Average throughput: 40.76 Mbit/s
95th percentile per-packet one-way delay: 57.107 ms
Loss rate: 3.43%
-- Flow 2:
Average throughput: 33.43 Mbit/s
95th percentile per-packet one-way delay: 62.265 ms
Loss rate: 3.63%
-- Flow 3:
Average throughput: 22.21 Mbit/s
95th percentile per-packet one-way delay: 65.398 ms
Loss rate: 4.69%
```

### Run 9: Report of Verus — Data Link

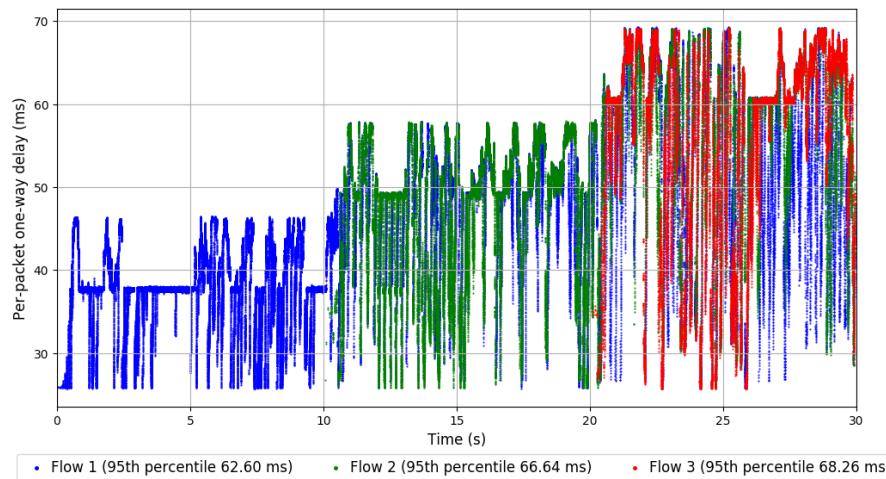
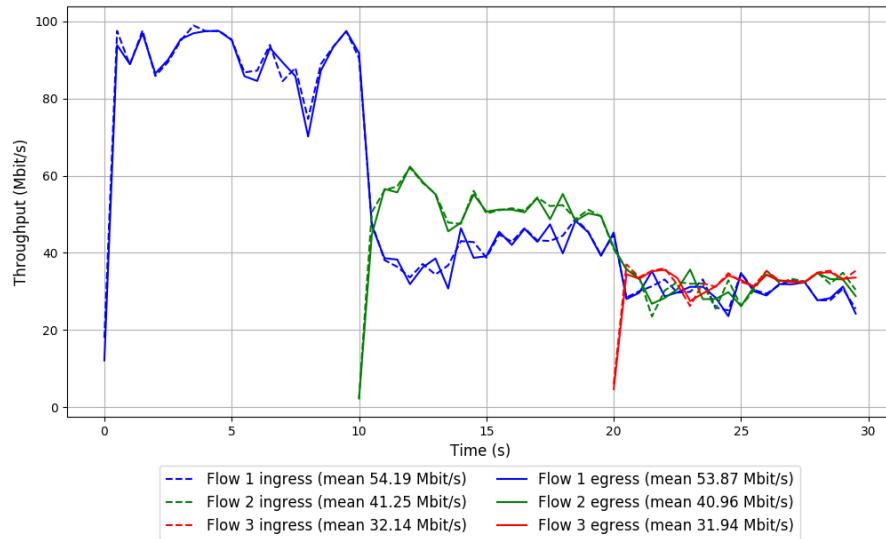


Run 10: Statistics of Verus

```
Start at: 2018-01-17 03:01:09
End at: 2018-01-17 03:01:39
Local clock offset: -0.569 ms
Remote clock offset: -4.049 ms

# Below is generated by plot.py at 2018-01-17 07:55:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.66 Mbit/s
95th percentile per-packet one-way delay: 66.218 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 53.87 Mbit/s
95th percentile per-packet one-way delay: 62.600 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 40.96 Mbit/s
95th percentile per-packet one-way delay: 66.640 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 31.94 Mbit/s
95th percentile per-packet one-way delay: 68.260 ms
Loss rate: 1.27%
```

## Run 10: Report of Verus — Data Link

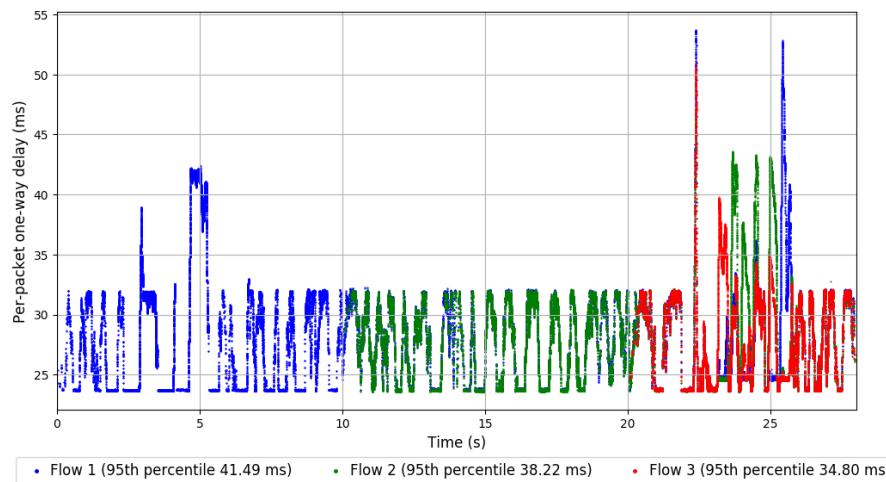
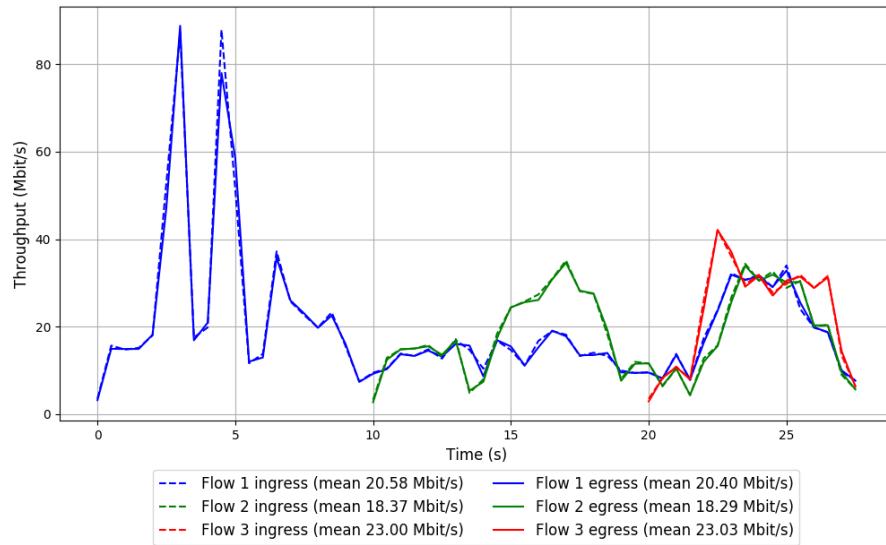


Run 1: Statistics of Copa

```
Start at: 2018-01-16 23:15:46
End at: 2018-01-16 23:16:16
Local clock offset: 0.741 ms
Remote clock offset: -3.239 ms

# Below is generated by plot.py at 2018-01-17 07:55:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 38.63 Mbit/s
95th percentile per-packet one-way delay: 40.555 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 20.40 Mbit/s
95th percentile per-packet one-way delay: 41.490 ms
Loss rate: 1.14%
-- Flow 2:
Average throughput: 18.29 Mbit/s
95th percentile per-packet one-way delay: 38.218 ms
Loss rate: 0.78%
-- Flow 3:
Average throughput: 23.03 Mbit/s
95th percentile per-packet one-way delay: 34.801 ms
Loss rate: 0.59%
```

### Run 1: Report of Copa — Data Link

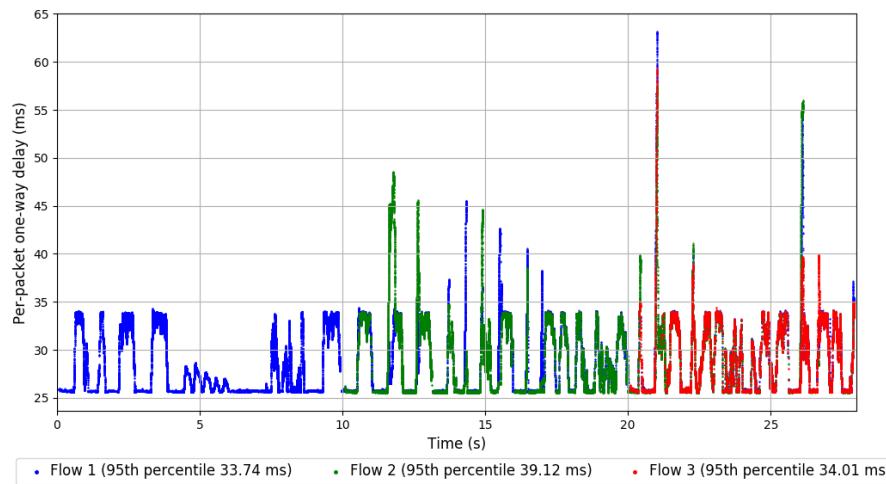
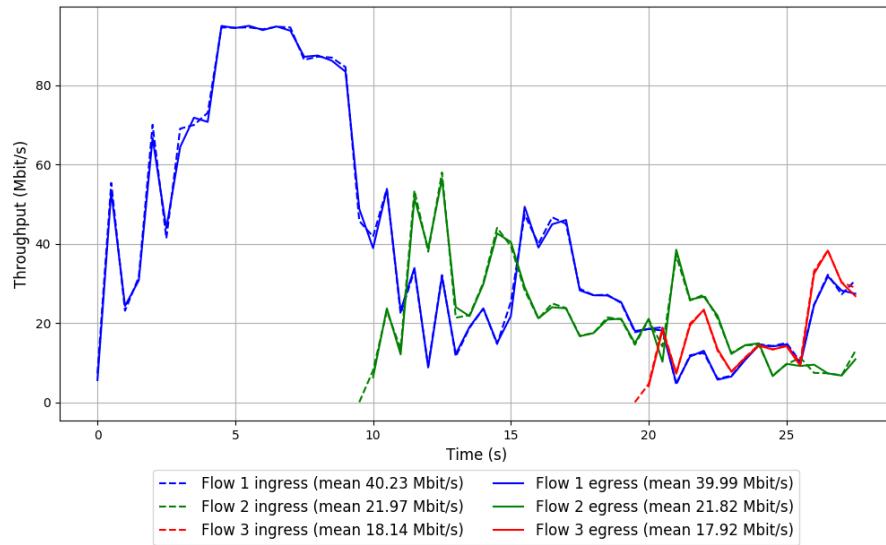


Run 2: Statistics of Copa

```
Start at: 2018-01-16 23:42:24
End at: 2018-01-16 23:42:54
Local clock offset: 0.882 ms
Remote clock offset: -4.222 ms

# Below is generated by plot.py at 2018-01-17 07:56:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 59.08 Mbit/s
95th percentile per-packet one-way delay: 33.810 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 39.99 Mbit/s
95th percentile per-packet one-way delay: 33.740 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 21.82 Mbit/s
95th percentile per-packet one-way delay: 39.122 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 17.92 Mbit/s
95th percentile per-packet one-way delay: 34.007 ms
Loss rate: 1.83%
```

Run 2: Report of Copa — Data Link

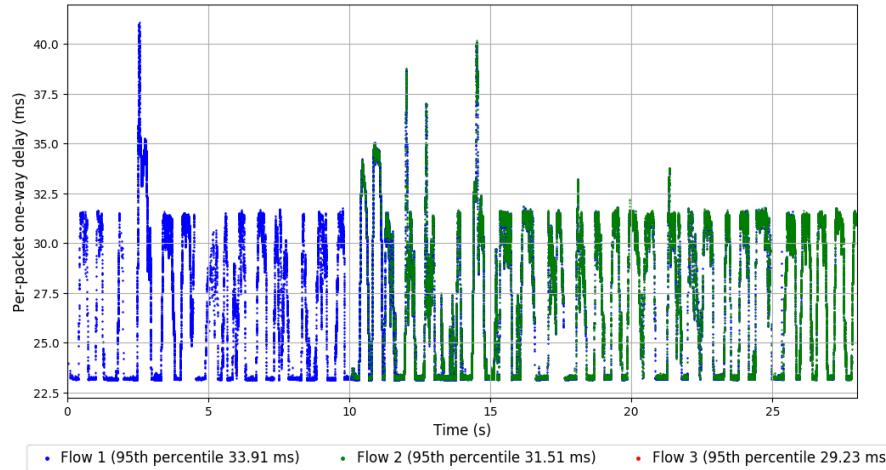
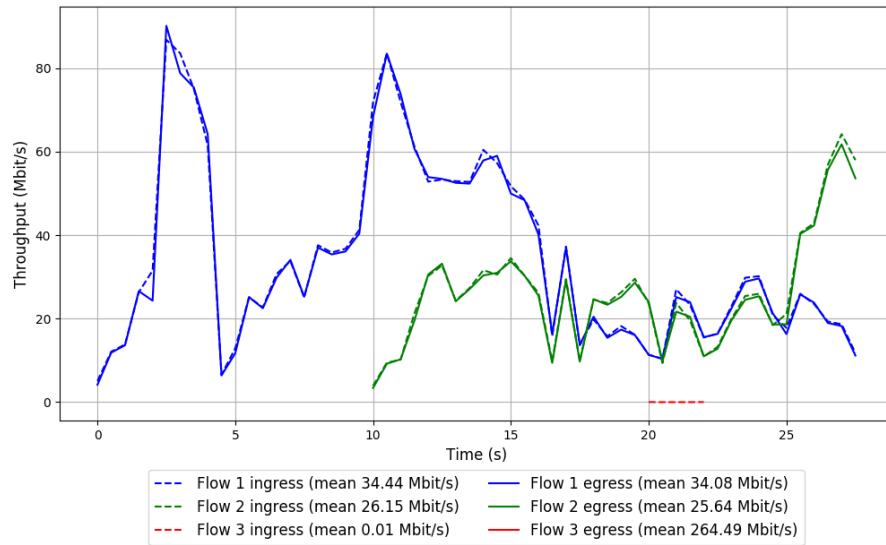


Run 3: Statistics of Copa

```
Start at: 2018-01-17 00:09:14
End at: 2018-01-17 00:09:44
Local clock offset: 0.711 ms
Remote clock offset: -1.09 ms

# Below is generated by plot.py at 2018-01-17 07:56:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 50.53 Mbit/s
95th percentile per-packet one-way delay: 33.141 ms
Loss rate: 1.57%
-- Flow 1:
Average throughput: 34.08 Mbit/s
95th percentile per-packet one-way delay: 33.915 ms
Loss rate: 1.23%
-- Flow 2:
Average throughput: 25.64 Mbit/s
95th percentile per-packet one-way delay: 31.507 ms
Loss rate: 2.25%
-- Flow 3:
Average throughput: 264.49 Mbit/s
95th percentile per-packet one-way delay: 29.227 ms
Loss rate: 50.00%
```

### Run 3: Report of Copa — Data Link

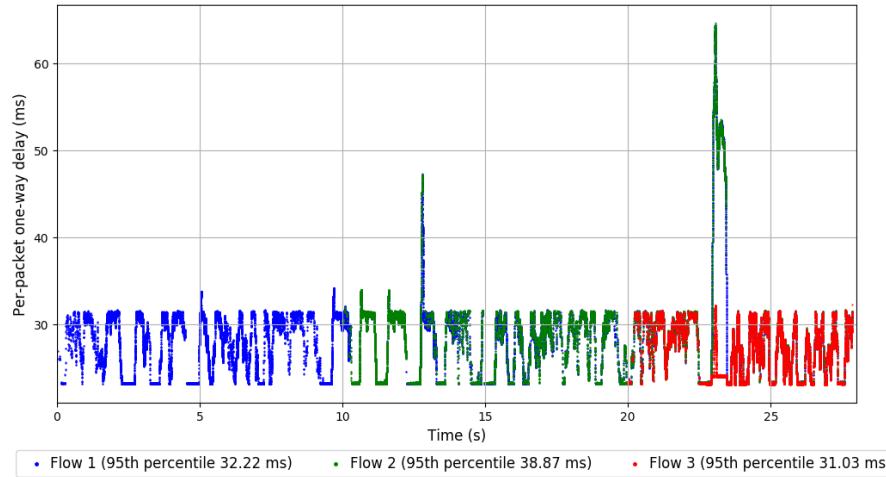
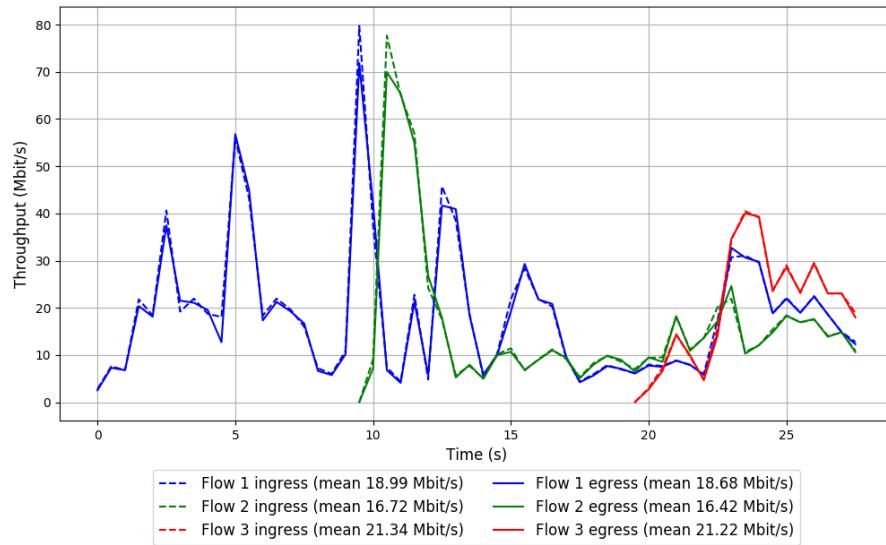


Run 4: Statistics of Copa

```
Start at: 2018-01-17 00:36:33
End at: 2018-01-17 00:37:03
Local clock offset: 0.343 ms
Remote clock offset: -0.856 ms

# Below is generated by plot.py at 2018-01-17 07:56:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 35.26 Mbit/s
95th percentile per-packet one-way delay: 31.582 ms
Loss rate: 1.84%
-- Flow 1:
Average throughput: 18.68 Mbit/s
95th percentile per-packet one-way delay: 32.220 ms
Loss rate: 1.86%
-- Flow 2:
Average throughput: 16.42 Mbit/s
95th percentile per-packet one-way delay: 38.871 ms
Loss rate: 2.16%
-- Flow 3:
Average throughput: 21.22 Mbit/s
95th percentile per-packet one-way delay: 31.031 ms
Loss rate: 1.21%
```

## Run 4: Report of Copa — Data Link

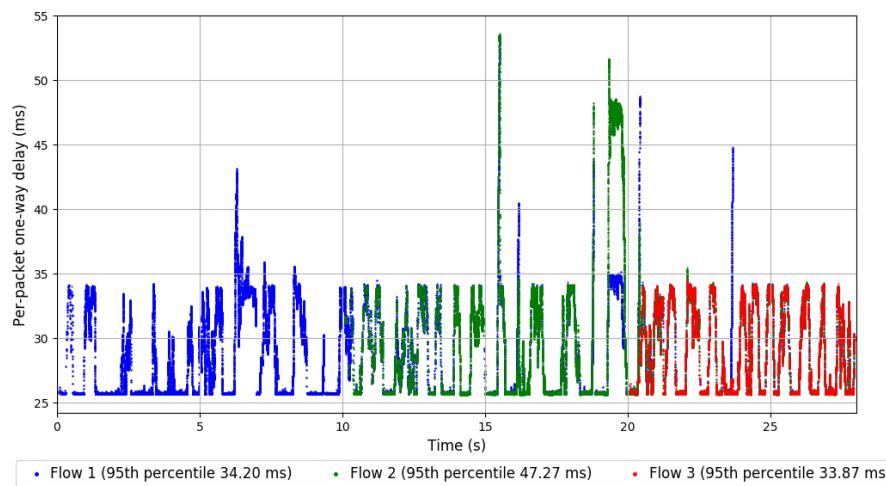
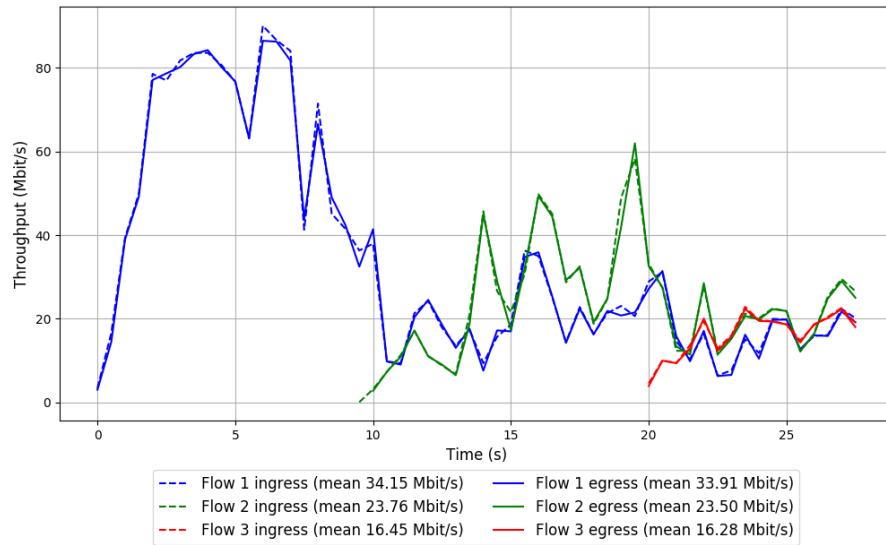


Run 5: Statistics of Copa

```
Start at: 2018-01-17 01:05:01
End at: 2018-01-17 01:05:31
Local clock offset: 0.168 ms
Remote clock offset: -3.659 ms

# Below is generated by plot.py at 2018-01-17 07:56:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 53.59 Mbit/s
95th percentile per-packet one-way delay: 34.757 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 33.91 Mbit/s
95th percentile per-packet one-way delay: 34.203 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 23.50 Mbit/s
95th percentile per-packet one-way delay: 47.269 ms
Loss rate: 1.41%
-- Flow 3:
Average throughput: 16.28 Mbit/s
95th percentile per-packet one-way delay: 33.868 ms
Loss rate: 1.72%
```

Run 5: Report of Copa — Data Link

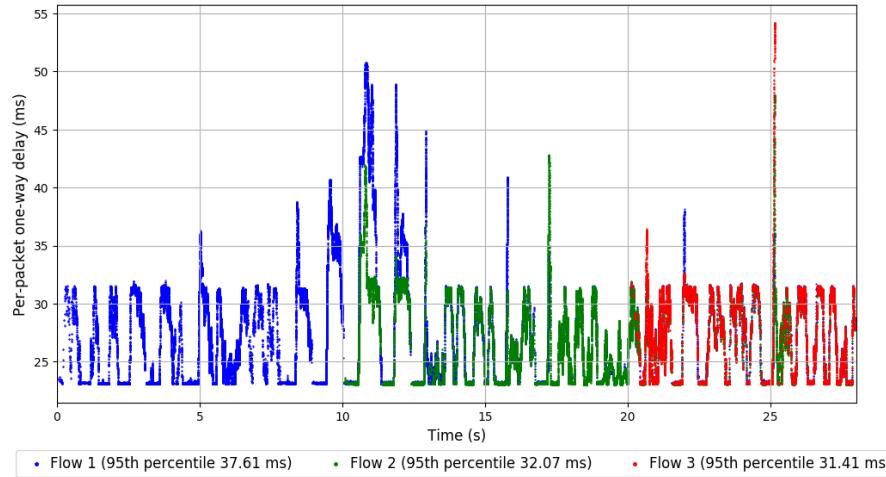
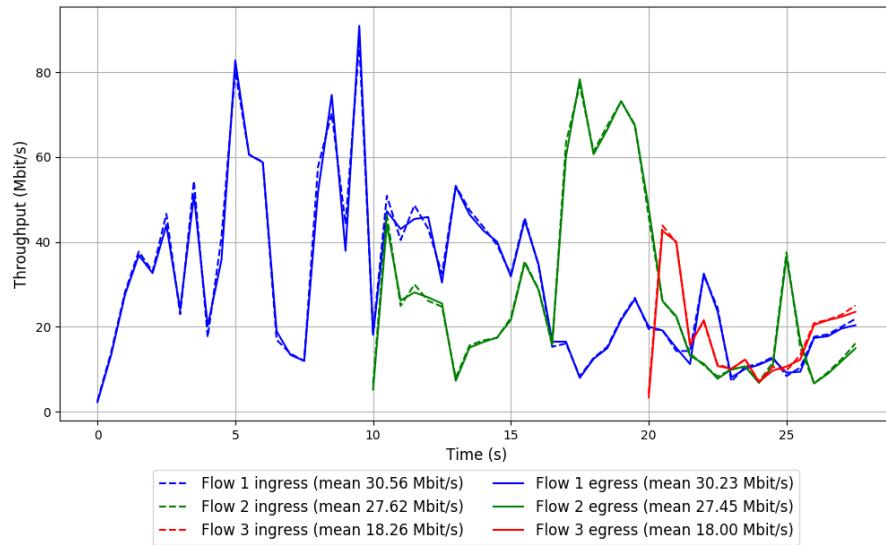


Run 6: Statistics of Copa

```
Start at: 2018-01-17 01:31:42
End at: 2018-01-17 01:32:12
Local clock offset: -0.18 ms
Remote clock offset: -1.054 ms

# Below is generated by plot.py at 2018-01-17 07:56:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 52.93 Mbit/s
95th percentile per-packet one-way delay: 35.597 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 30.23 Mbit/s
95th percentile per-packet one-way delay: 37.614 ms
Loss rate: 1.26%
-- Flow 2:
Average throughput: 27.45 Mbit/s
95th percentile per-packet one-way delay: 32.067 ms
Loss rate: 0.90%
-- Flow 3:
Average throughput: 18.00 Mbit/s
95th percentile per-packet one-way delay: 31.412 ms
Loss rate: 2.12%
```

Run 6: Report of Copa — Data Link

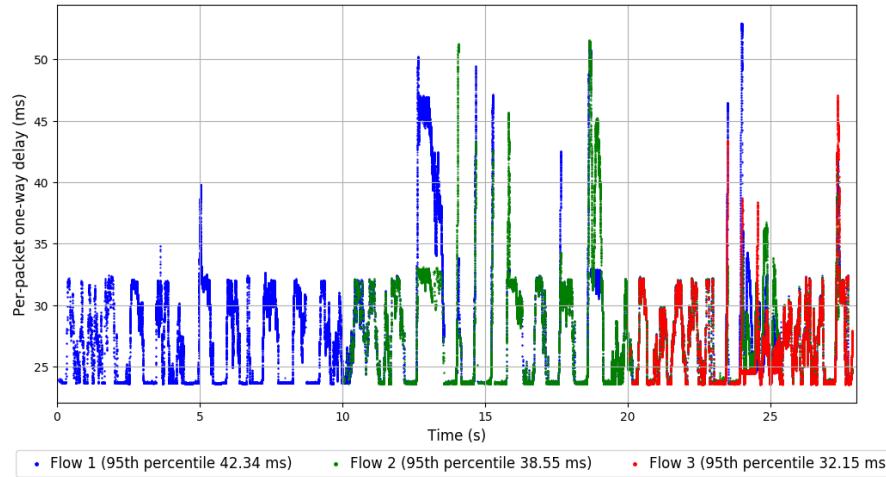
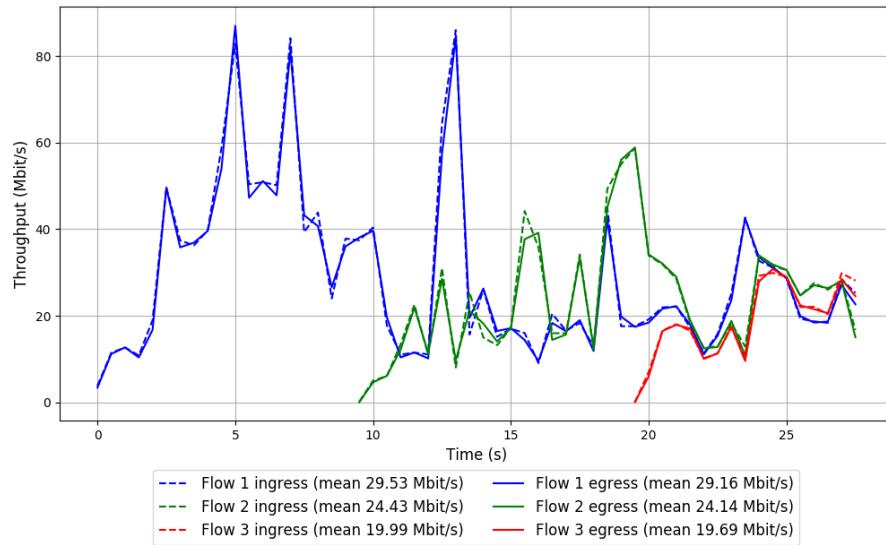


Run 7: Statistics of Copa

```
Start at: 2018-01-17 01:59:07
End at: 2018-01-17 01:59:37
Local clock offset: -0.243 ms
Remote clock offset: -1.543 ms

# Below is generated by plot.py at 2018-01-17 07:56:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 50.27 Mbit/s
95th percentile per-packet one-way delay: 40.761 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 29.16 Mbit/s
95th percentile per-packet one-way delay: 42.345 ms
Loss rate: 1.45%
-- Flow 2:
Average throughput: 24.14 Mbit/s
95th percentile per-packet one-way delay: 38.545 ms
Loss rate: 1.52%
-- Flow 3:
Average throughput: 19.69 Mbit/s
95th percentile per-packet one-way delay: 32.146 ms
Loss rate: 2.20%
```

Run 7: Report of Copa — Data Link

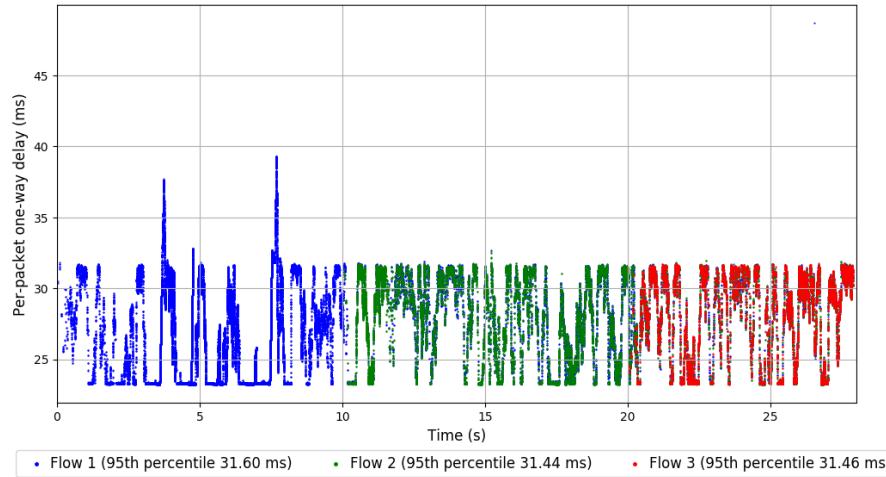
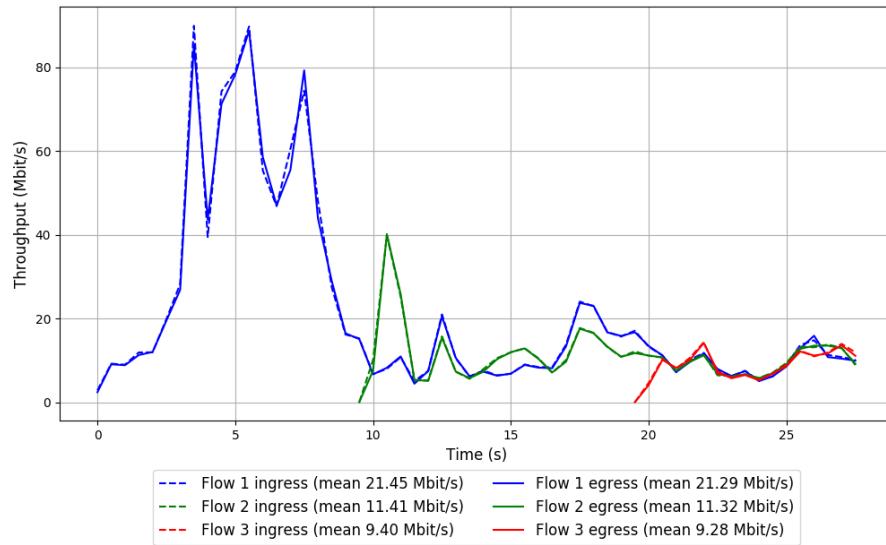


Run 8: Statistics of Copa

```
Start at: 2018-01-17 02:26:23
End at: 2018-01-17 02:26:53
Local clock offset: -0.328 ms
Remote clock offset: -1.212 ms

# Below is generated by plot.py at 2018-01-17 07:56:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 31.20 Mbit/s
95th percentile per-packet one-way delay: 31.523 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 21.29 Mbit/s
95th percentile per-packet one-way delay: 31.600 ms
Loss rate: 0.93%
-- Flow 2:
Average throughput: 11.32 Mbit/s
95th percentile per-packet one-way delay: 31.442 ms
Loss rate: 1.12%
-- Flow 3:
Average throughput: 9.28 Mbit/s
95th percentile per-packet one-way delay: 31.463 ms
Loss rate: 2.02%
```

## Run 8: Report of Copa — Data Link

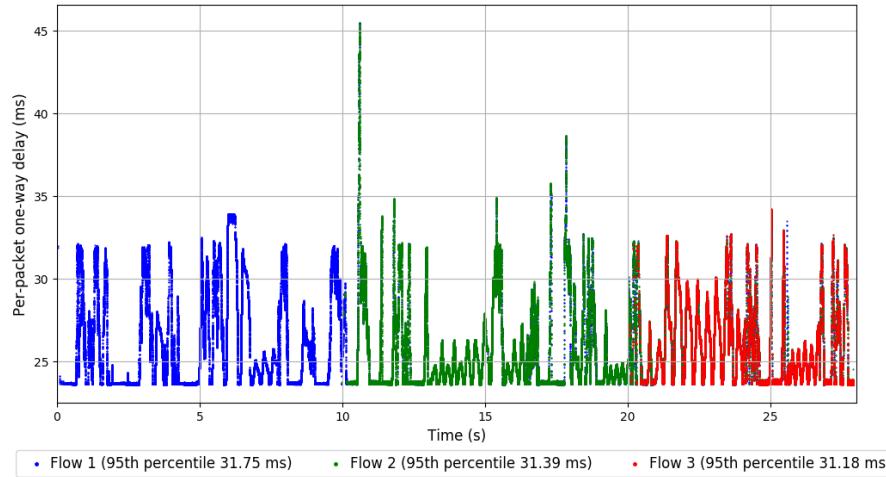
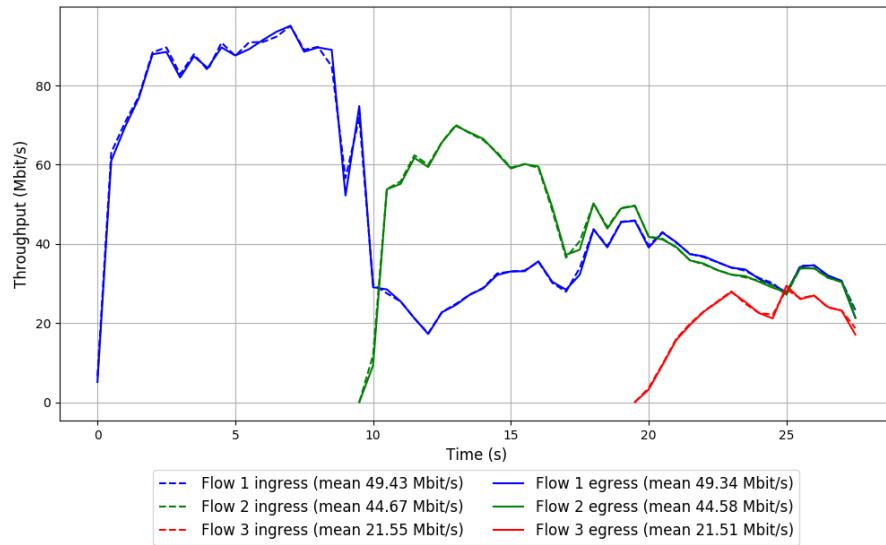


Run 9: Statistics of Copa

```
Start at: 2018-01-17 02:52:55
End at: 2018-01-17 02:53:25
Local clock offset: -0.493 ms
Remote clock offset: -1.784 ms

# Below is generated by plot.py at 2018-01-17 07:57:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.11 Mbit/s
95th percentile per-packet one-way delay: 31.605 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 49.34 Mbit/s
95th percentile per-packet one-way delay: 31.745 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 44.58 Mbit/s
95th percentile per-packet one-way delay: 31.387 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 21.51 Mbit/s
95th percentile per-packet one-way delay: 31.179 ms
Loss rate: 0.88%
```

Run 9: Report of Copa — Data Link

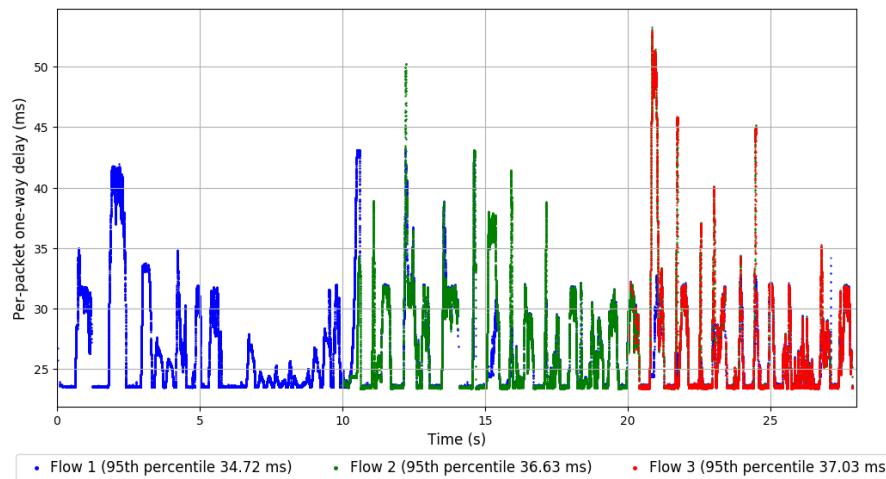
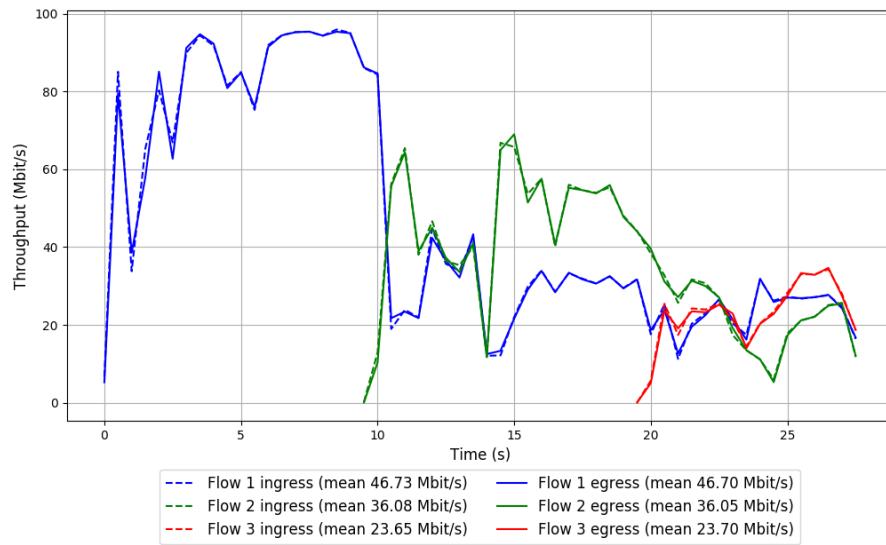


Run 10: Statistics of Copa

```
Start at: 2018-01-17 03:18:10
End at: 2018-01-17 03:18:40
Local clock offset: -0.693 ms
Remote clock offset: -1.928 ms

# Below is generated by plot.py at 2018-01-17 07:57:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.59 Mbit/s
95th percentile per-packet one-way delay: 36.069 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 46.70 Mbit/s
95th percentile per-packet one-way delay: 34.717 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 36.05 Mbit/s
95th percentile per-packet one-way delay: 36.627 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 23.70 Mbit/s
95th percentile per-packet one-way delay: 37.033 ms
Loss rate: 0.69%
```

Run 10: Report of Copa — Data Link

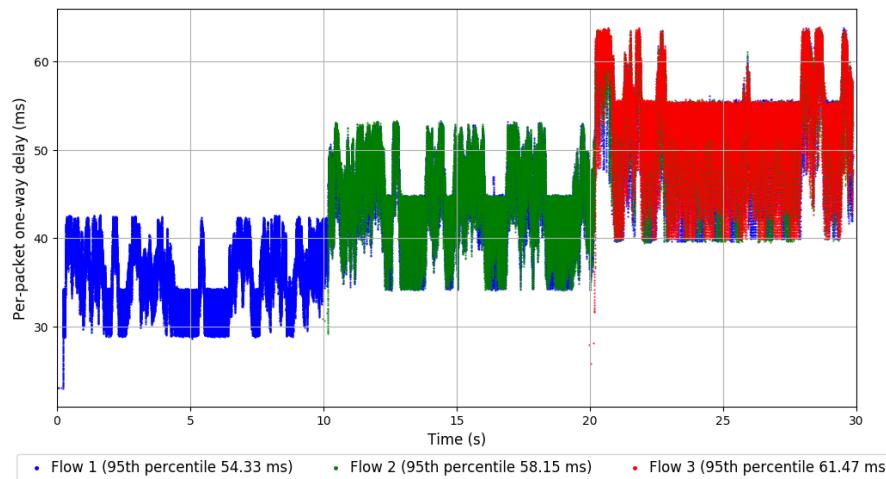
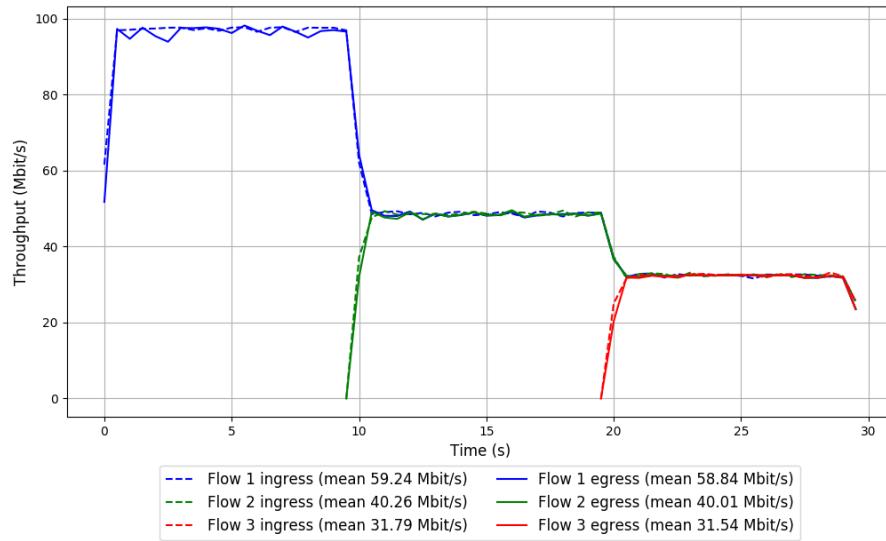


```
Run 1: Statistics of FillP

Start at: 2018-01-16 22:59:58
End at: 2018-01-16 23:00:28
Local clock offset: 0.622 ms
Remote clock offset: -3.335 ms

# Below is generated by plot.py at 2018-01-17 07:57:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.95 Mbit/s
95th percentile per-packet one-way delay: 57.034 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 58.84 Mbit/s
95th percentile per-packet one-way delay: 54.333 ms
Loss rate: 0.88%
-- Flow 2:
Average throughput: 40.01 Mbit/s
95th percentile per-packet one-way delay: 58.149 ms
Loss rate: 0.96%
-- Flow 3:
Average throughput: 31.54 Mbit/s
95th percentile per-packet one-way delay: 61.468 ms
Loss rate: 1.47%
```

### Run 1: Report of FillP — Data Link

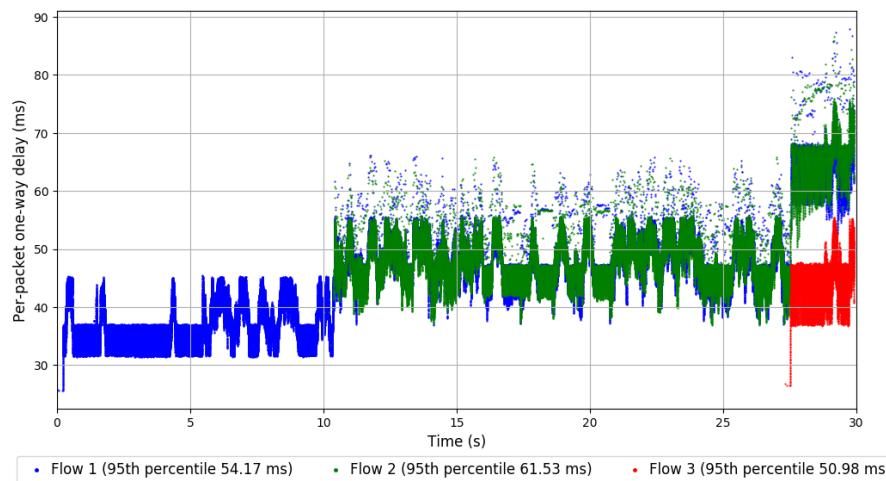
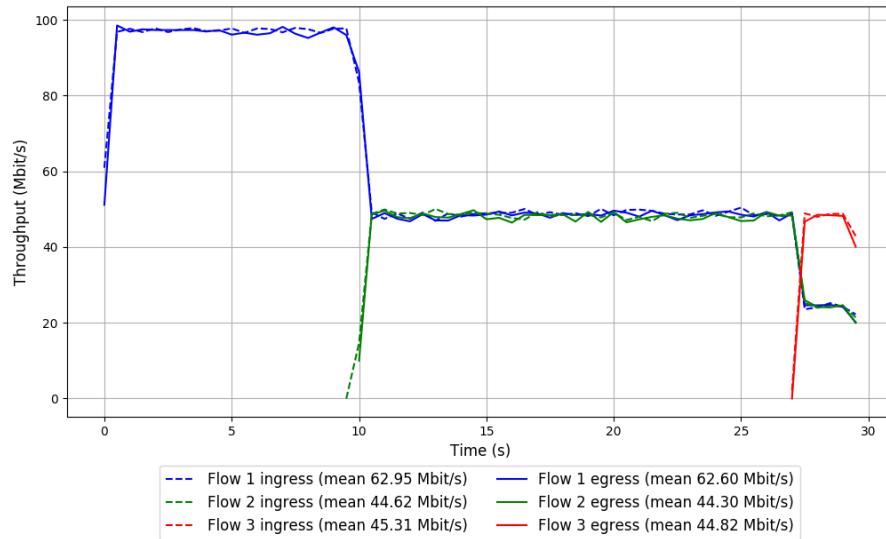


Run 2: Statistics of FillP

```
Start at: 2018-01-16 23:26:06
End at: 2018-01-16 23:26:36
Local clock offset: 0.864 ms
Remote clock offset: -4.913 ms

# Below is generated by plot.py at 2018-01-17 07:57:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.94 Mbit/s
95th percentile per-packet one-way delay: 55.003 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 62.60 Mbit/s
95th percentile per-packet one-way delay: 54.171 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 44.30 Mbit/s
95th percentile per-packet one-way delay: 61.535 ms
Loss rate: 1.15%
-- Flow 3:
Average throughput: 44.82 Mbit/s
95th percentile per-packet one-way delay: 50.979 ms
Loss rate: 3.13%
```

## Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-01-16 23:52:39  
End at: 2018-01-16 23:53:09  
Local clock offset: 0.873 ms  
Remote clock offset: -1.987 ms

Run 3: Report of FillP — Data Link

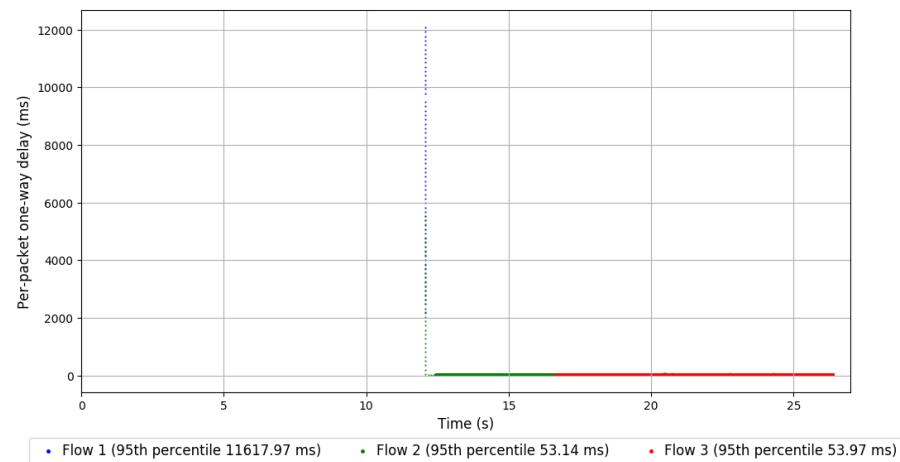
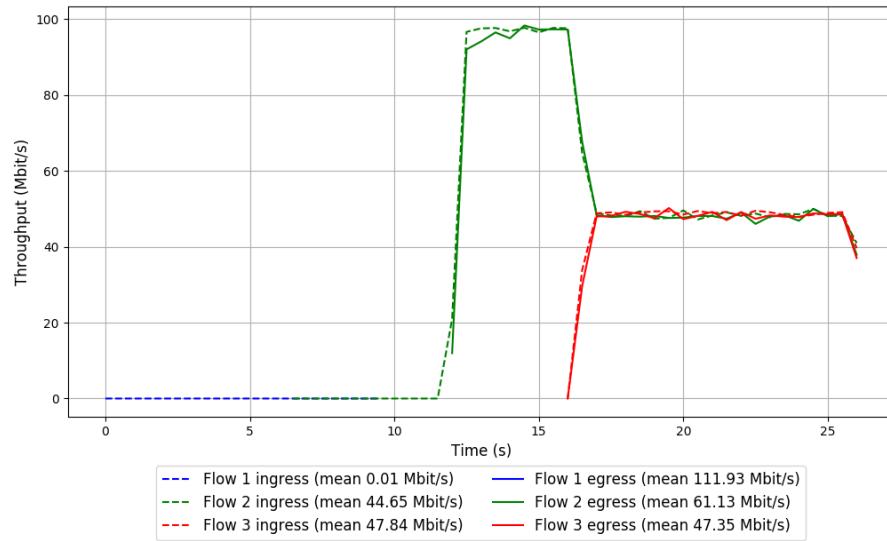
Figure is missing

Figure is missing

Run 4: Statistics of FillP

Start at: 2018-01-17 00:20:15  
End at: 2018-01-17 00:20:45  
Local clock offset: 0.507 ms  
Remote clock offset: -3.579 ms

## Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-01-17 00:47:28  
End at: 2018-01-17 00:47:58  
Local clock offset: 0.344 ms  
Remote clock offset: -1.255 ms

Run 5: Report of FillP — Data Link

Figure is missing

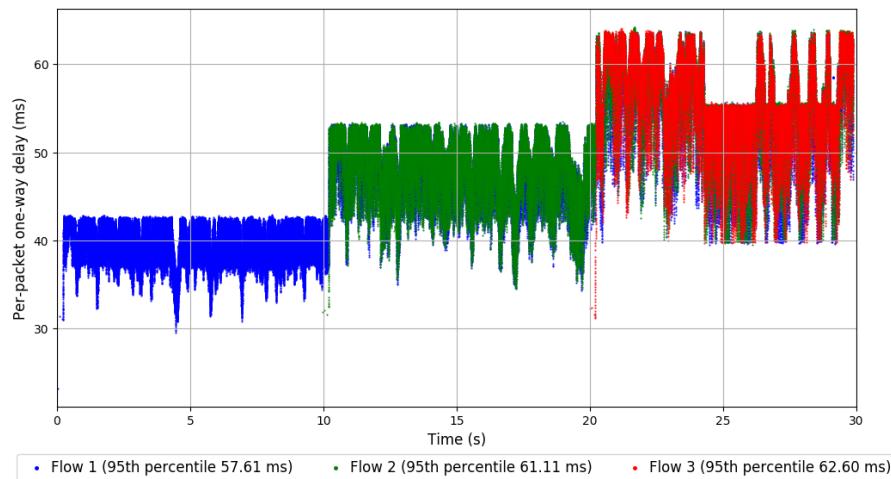
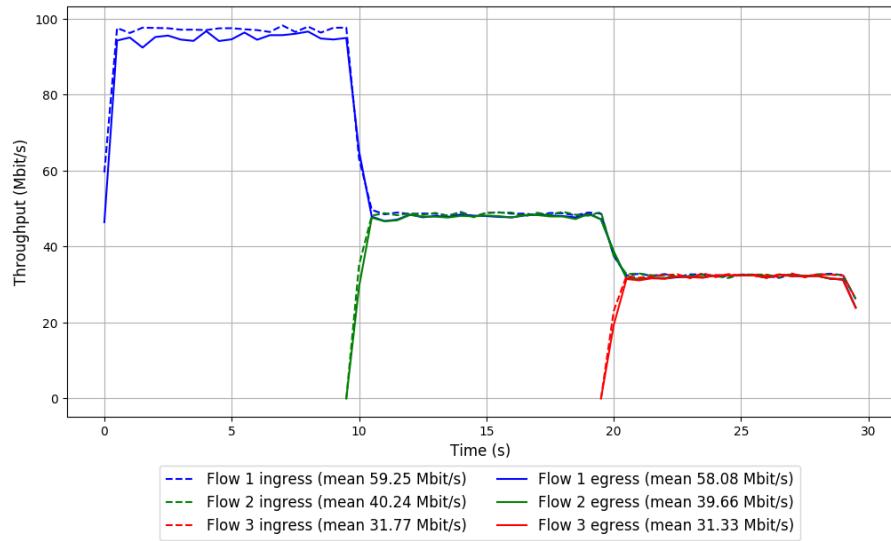
Figure is missing

Run 6: Statistics of FillP

```
Start at: 2018-01-17 01:15:12
End at: 2018-01-17 01:15:42
Local clock offset: 0.053 ms
Remote clock offset: -1.243 ms

# Below is generated by plot.py at 2018-01-17 07:58:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.87 Mbit/s
95th percentile per-packet one-way delay: 60.497 ms
Loss rate: 2.07%
-- Flow 1:
Average throughput: 58.08 Mbit/s
95th percentile per-packet one-way delay: 57.608 ms
Loss rate: 2.18%
-- Flow 2:
Average throughput: 39.66 Mbit/s
95th percentile per-packet one-way delay: 61.111 ms
Loss rate: 1.81%
-- Flow 3:
Average throughput: 31.33 Mbit/s
95th percentile per-packet one-way delay: 62.604 ms
Loss rate: 2.13%
```

### Run 6: Report of FillP — Data Link

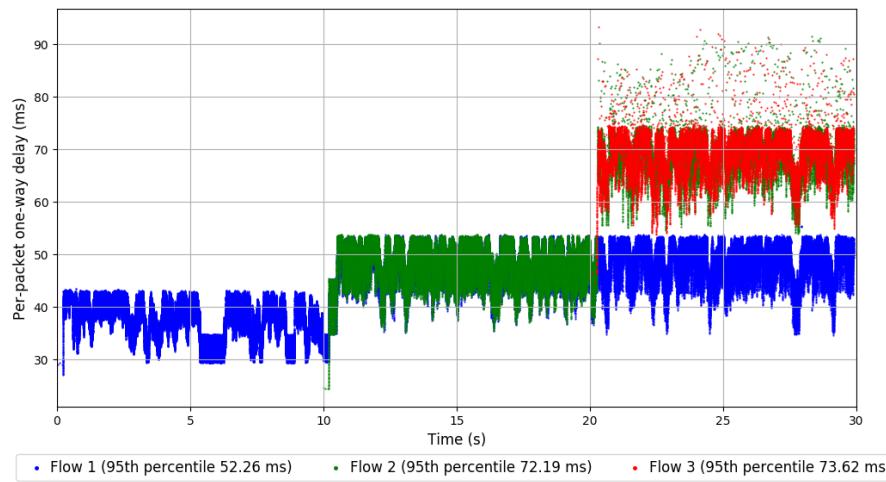
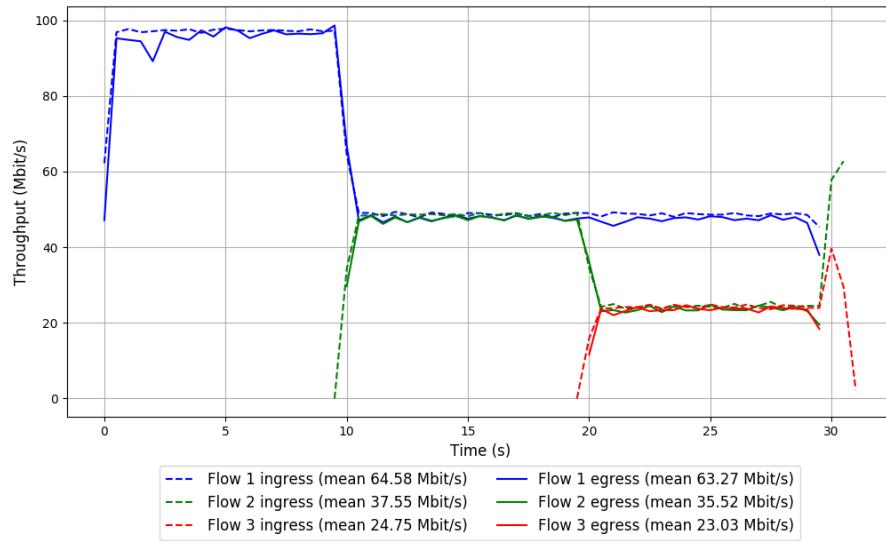


Run 7: Statistics of FillP

```
Start at: 2018-01-17 01:42:27
End at: 2018-01-17 01:42:57
Local clock offset: -0.18 ms
Remote clock offset: -1.629 ms

# Below is generated by plot.py at 2018-01-17 07:58:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.53 Mbit/s
95th percentile per-packet one-way delay: 70.870 ms
Loss rate: 5.78%
-- Flow 1:
Average throughput: 63.27 Mbit/s
95th percentile per-packet one-way delay: 52.258 ms
Loss rate: 2.35%
-- Flow 2:
Average throughput: 35.52 Mbit/s
95th percentile per-packet one-way delay: 72.191 ms
Loss rate: 10.31%
-- Flow 3:
Average throughput: 23.03 Mbit/s
95th percentile per-packet one-way delay: 73.617 ms
Loss rate: 16.96%
```

Run 7: Report of FillP — Data Link

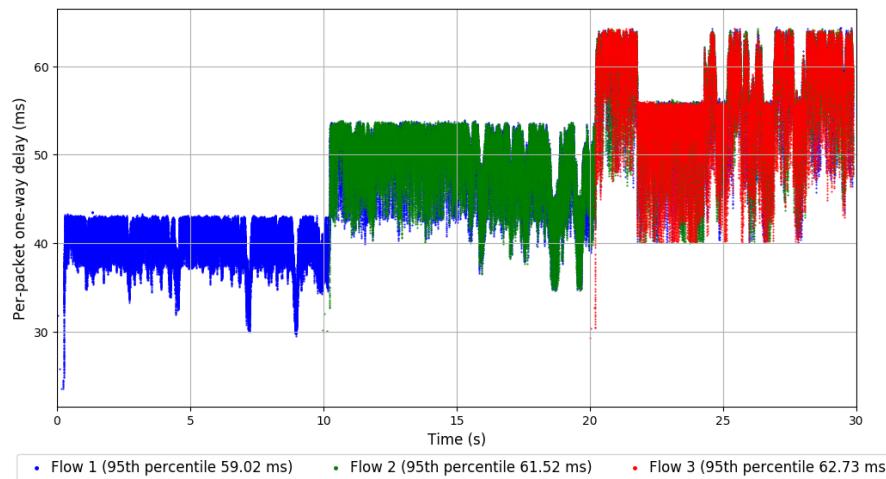
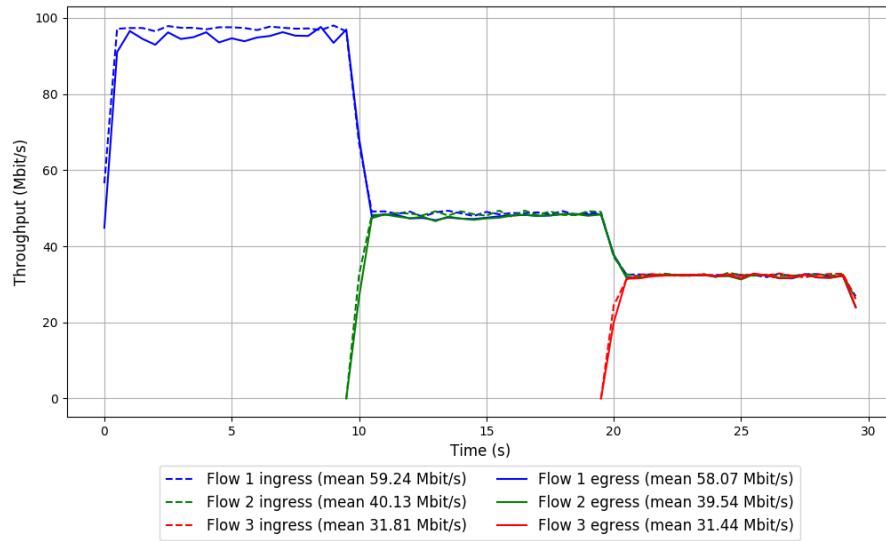


Run 8: Statistics of FillP

```
Start at: 2018-01-17 02:09:43
End at: 2018-01-17 02:10:13
Local clock offset: -0.28 ms
Remote clock offset: -1.696 ms

# Below is generated by plot.py at 2018-01-17 07:58:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.85 Mbit/s
95th percentile per-packet one-way delay: 61.039 ms
Loss rate: 2.07%
-- Flow 1:
Average throughput: 58.07 Mbit/s
95th percentile per-packet one-way delay: 59.020 ms
Loss rate: 2.21%
-- Flow 2:
Average throughput: 39.54 Mbit/s
95th percentile per-packet one-way delay: 61.517 ms
Loss rate: 1.84%
-- Flow 3:
Average throughput: 31.44 Mbit/s
95th percentile per-packet one-way delay: 62.730 ms
Loss rate: 1.87%
```

### Run 8: Report of FillP — Data Link

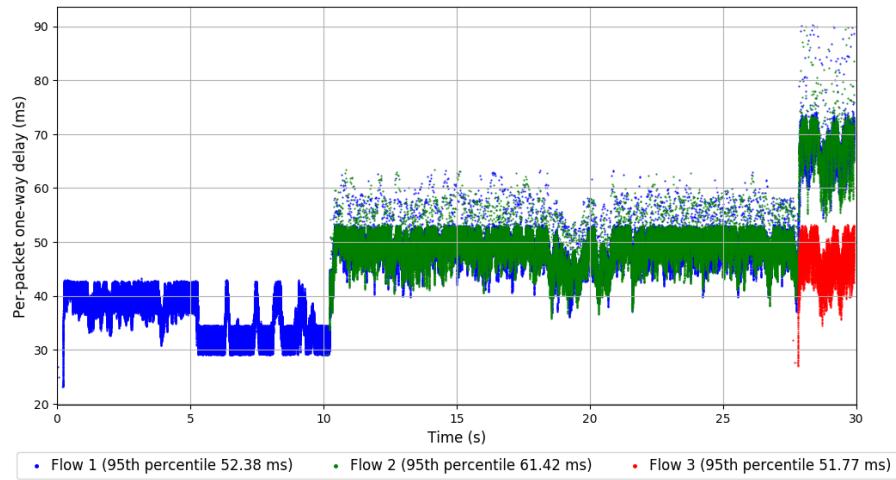
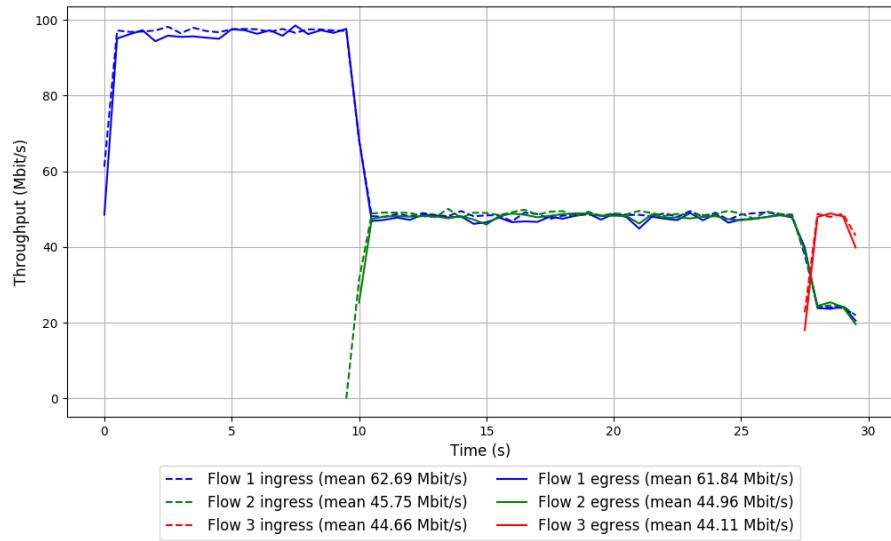


Run 9: Statistics of FillP

```
Start at: 2018-01-17 02:36:55
End at: 2018-01-17 02:37:25
Local clock offset: -0.365 ms
Remote clock offset: -1.225 ms

# Below is generated by plot.py at 2018-01-17 07:58:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.15 Mbit/s
95th percentile per-packet one-way delay: 52.776 ms
Loss rate: 1.81%
-- Flow 1:
Average throughput: 61.84 Mbit/s
95th percentile per-packet one-way delay: 52.383 ms
Loss rate: 1.58%
-- Flow 2:
Average throughput: 44.96 Mbit/s
95th percentile per-packet one-way delay: 61.419 ms
Loss rate: 2.02%
-- Flow 3:
Average throughput: 44.11 Mbit/s
95th percentile per-packet one-way delay: 51.773 ms
Loss rate: 3.99%
```

Run 9: Report of FillP — Data Link

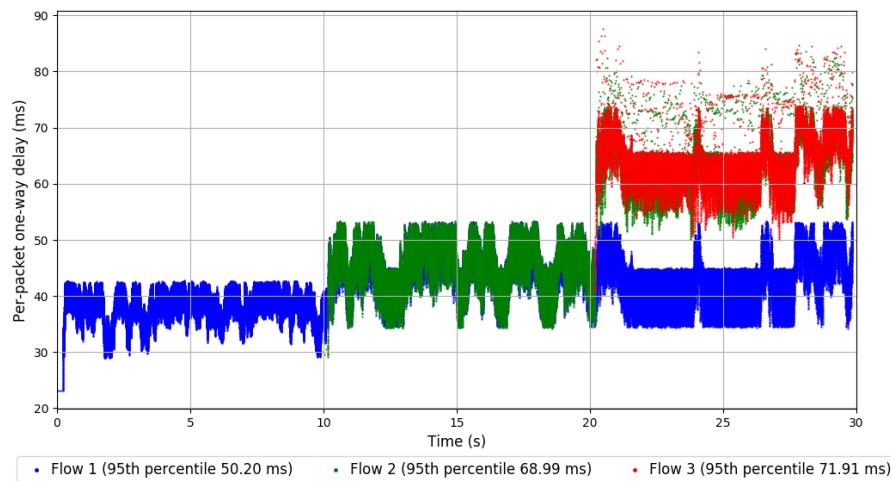
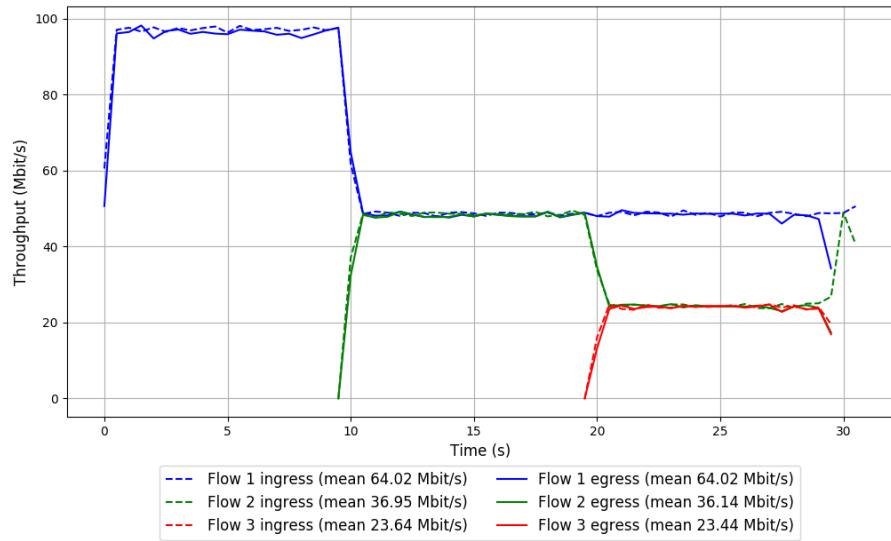


Run 10: Statistics of FillP

```
Start at: 2018-01-17 03:02:33
End at: 2018-01-17 03:03:03
Local clock offset: -0.579 ms
Remote clock offset: -1.491 ms

# Below is generated by plot.py at 2018-01-17 07:59:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.87 Mbit/s
95th percentile per-packet one-way delay: 65.251 ms
Loss rate: 4.51%
-- Flow 1:
Average throughput: 64.02 Mbit/s
95th percentile per-packet one-way delay: 50.200 ms
Loss rate: 3.76%
-- Flow 2:
Average throughput: 36.14 Mbit/s
95th percentile per-packet one-way delay: 68.988 ms
Loss rate: 7.28%
-- Flow 3:
Average throughput: 23.44 Mbit/s
95th percentile per-packet one-way delay: 71.914 ms
Loss rate: 1.72%
```

Run 10: Report of FillP — Data Link

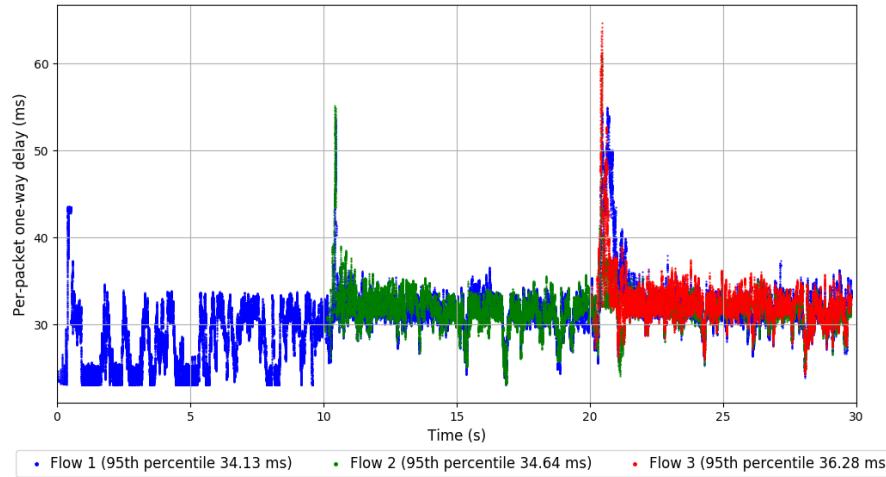
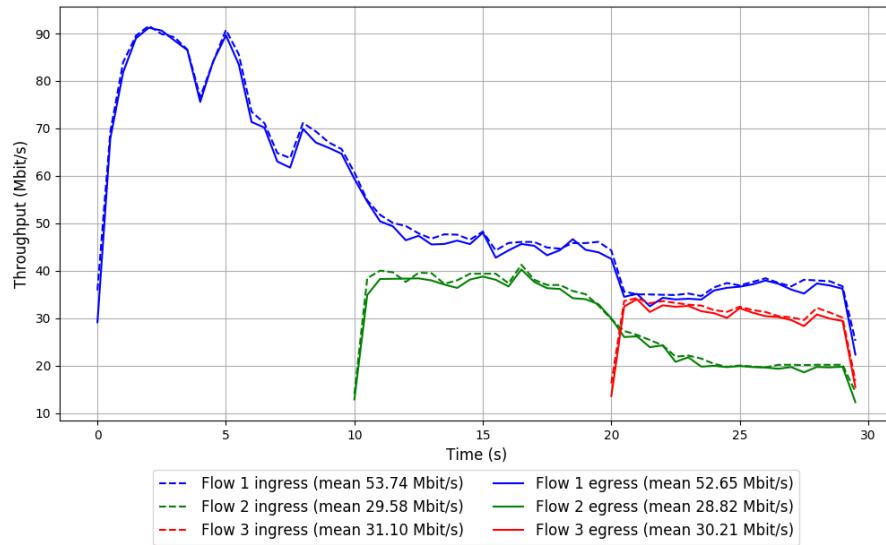


Run 1: Statistics of Indigo

```
Start at: 2018-01-16 23:12:38
End at: 2018-01-16 23:13:08
Local clock offset: 0.839 ms
Remote clock offset: -2.727 ms

# Below is generated by plot.py at 2018-01-17 07:59:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.61 Mbit/s
95th percentile per-packet one-way delay: 34.624 ms
Loss rate: 2.48%
-- Flow 1:
Average throughput: 52.65 Mbit/s
95th percentile per-packet one-way delay: 34.127 ms
Loss rate: 2.20%
-- Flow 2:
Average throughput: 28.82 Mbit/s
95th percentile per-packet one-way delay: 34.637 ms
Loss rate: 2.90%
-- Flow 3:
Average throughput: 30.21 Mbit/s
95th percentile per-packet one-way delay: 36.280 ms
Loss rate: 3.20%
```

## Run 1: Report of Indigo — Data Link

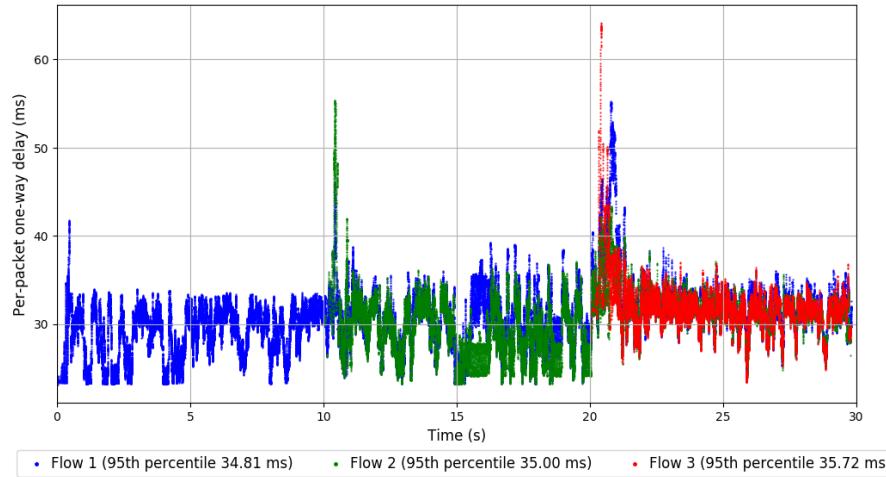
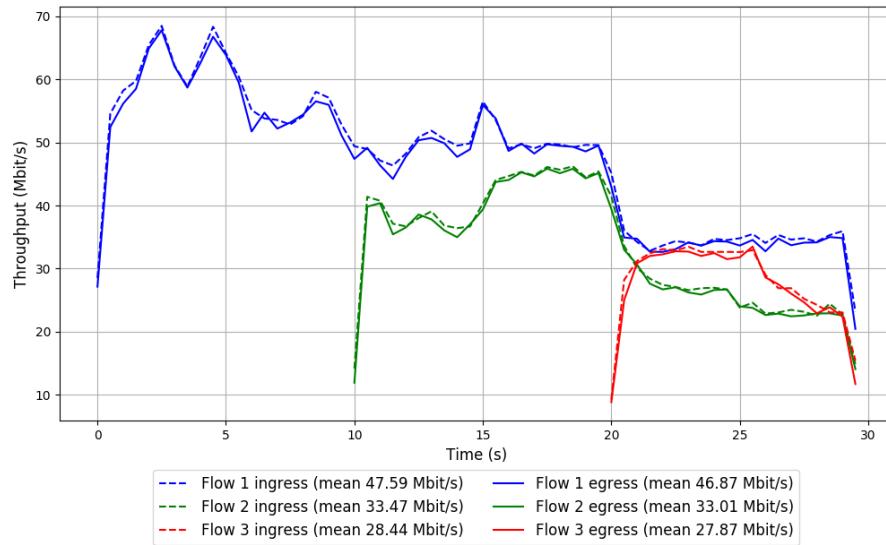


Run 2: Statistics of Indigo

```
Start at: 2018-01-16 23:39:20
End at: 2018-01-16 23:39:50
Local clock offset: 0.909 ms
Remote clock offset: -1.887 ms

# Below is generated by plot.py at 2018-01-17 07:59:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.85 Mbit/s
95th percentile per-packet one-way delay: 34.960 ms
Loss rate: 1.81%
-- Flow 1:
Average throughput: 46.87 Mbit/s
95th percentile per-packet one-way delay: 34.815 ms
Loss rate: 1.70%
-- Flow 2:
Average throughput: 33.01 Mbit/s
95th percentile per-packet one-way delay: 35.003 ms
Loss rate: 1.70%
-- Flow 3:
Average throughput: 27.87 Mbit/s
95th percentile per-packet one-way delay: 35.715 ms
Loss rate: 2.60%
```

## Run 2: Report of Indigo — Data Link

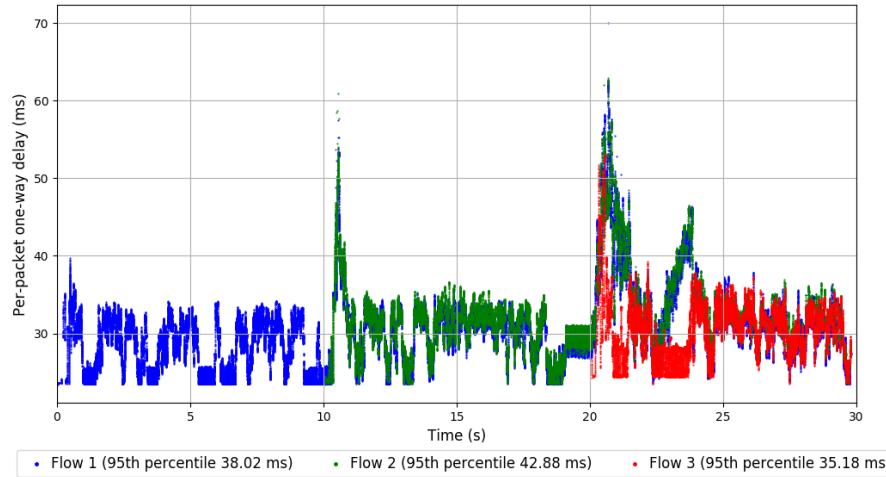
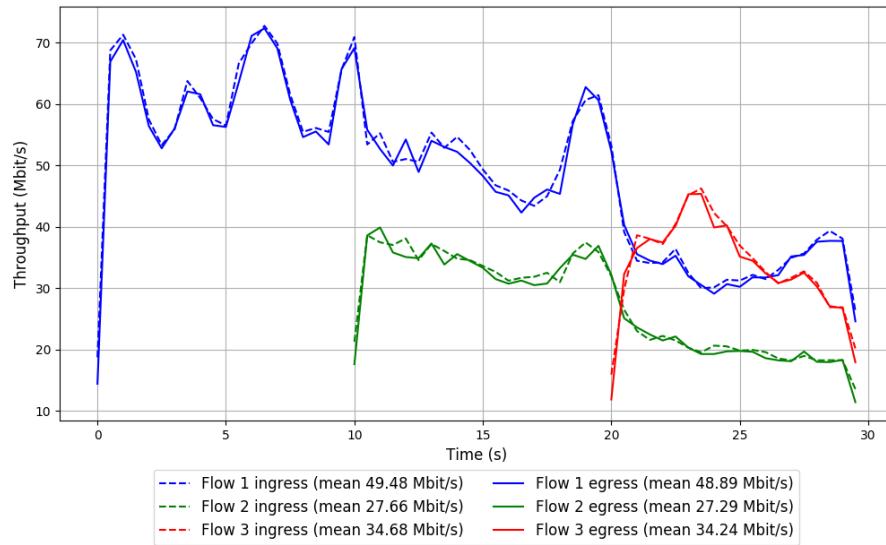


Run 3: Statistics of Indigo

```
Start at: 2018-01-17 00:06:12
End at: 2018-01-17 00:06:42
Local clock offset: 0.725 ms
Remote clock offset: -1.51 ms

# Below is generated by plot.py at 2018-01-17 07:59:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.14 Mbit/s
95th percentile per-packet one-way delay: 38.840 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 48.89 Mbit/s
95th percentile per-packet one-way delay: 38.018 ms
Loss rate: 1.36%
-- Flow 2:
Average throughput: 27.29 Mbit/s
95th percentile per-packet one-way delay: 42.875 ms
Loss rate: 1.63%
-- Flow 3:
Average throughput: 34.24 Mbit/s
95th percentile per-packet one-way delay: 35.181 ms
Loss rate: 1.82%
```

Run 3: Report of Indigo — Data Link

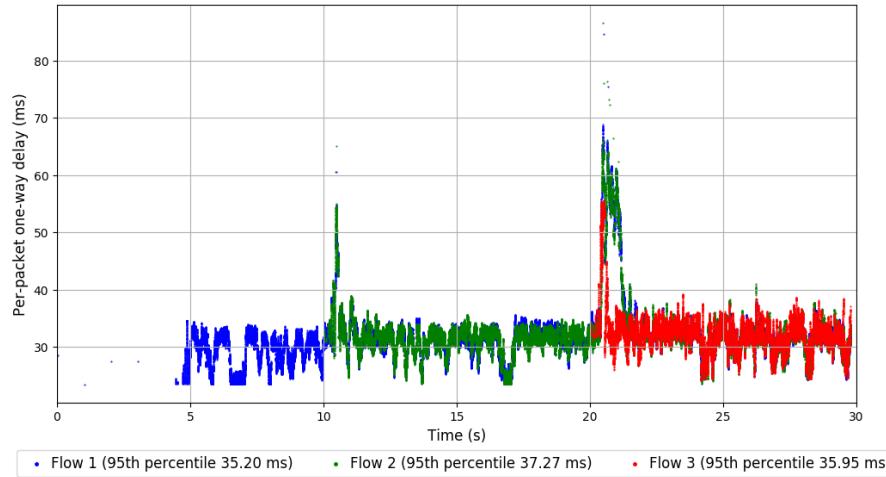
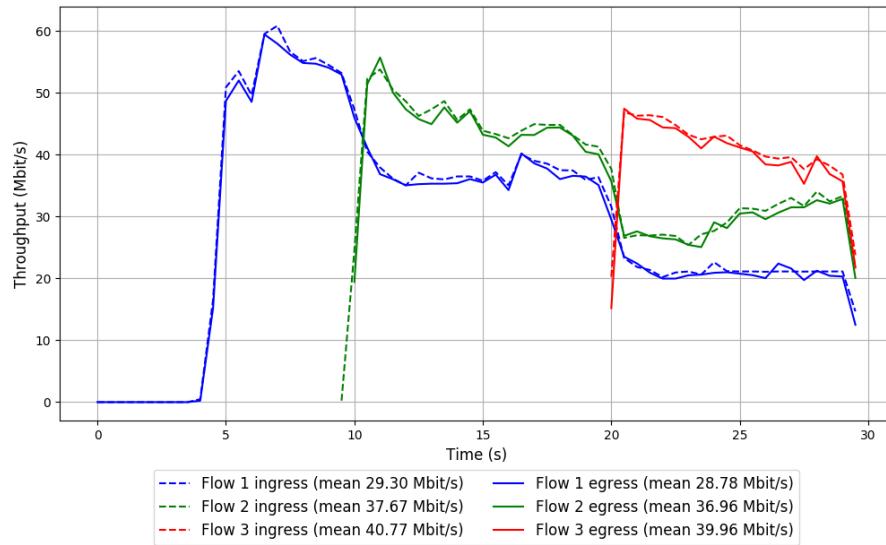


Run 4: Statistics of Indigo

```
Start at: 2018-01-17 00:33:31
End at: 2018-01-17 00:34:01
Local clock offset: 0.358 ms
Remote clock offset: -1.246 ms

# Below is generated by plot.py at 2018-01-17 07:59:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.37 Mbit/s
95th percentile per-packet one-way delay: 36.009 ms
Loss rate: 2.19%
-- Flow 1:
Average throughput: 28.78 Mbit/s
95th percentile per-packet one-way delay: 35.204 ms
Loss rate: 1.98%
-- Flow 2:
Average throughput: 36.96 Mbit/s
95th percentile per-packet one-way delay: 37.273 ms
Loss rate: 2.20%
-- Flow 3:
Average throughput: 39.96 Mbit/s
95th percentile per-packet one-way delay: 35.954 ms
Loss rate: 2.62%
```

## Run 4: Report of Indigo — Data Link

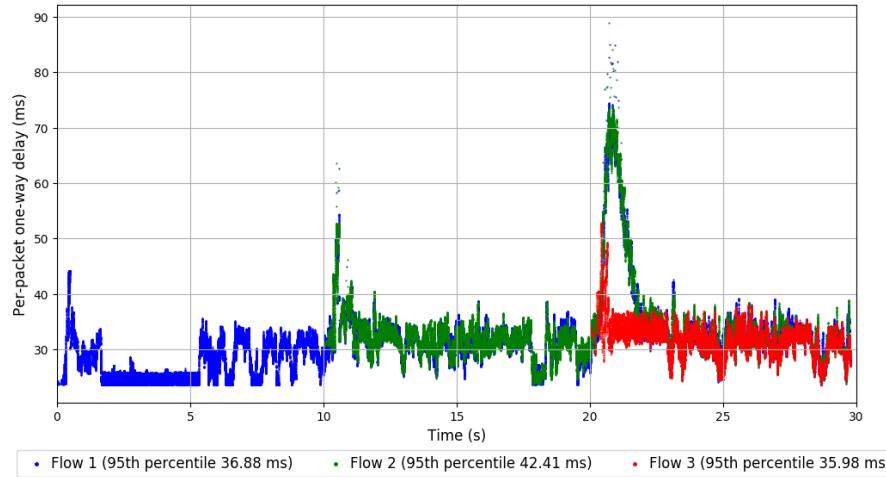
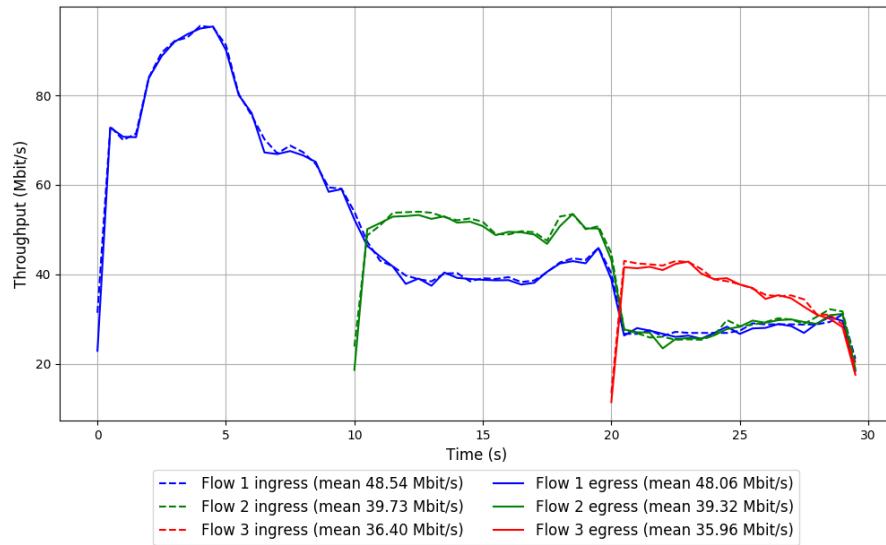


Run 5: Statistics of Indigo

```
Start at: 2018-01-17 01:02:07
End at: 2018-01-17 01:02:37
Local clock offset: 0.212 ms
Remote clock offset: -1.667 ms

# Below is generated by plot.py at 2018-01-17 07:59:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.86 Mbit/s
95th percentile per-packet one-way delay: 38.021 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 48.06 Mbit/s
95th percentile per-packet one-way delay: 36.882 ms
Loss rate: 1.18%
-- Flow 2:
Average throughput: 39.32 Mbit/s
95th percentile per-packet one-way delay: 42.408 ms
Loss rate: 1.33%
-- Flow 3:
Average throughput: 35.96 Mbit/s
95th percentile per-packet one-way delay: 35.978 ms
Loss rate: 1.84%
```

## Run 5: Report of Indigo — Data Link

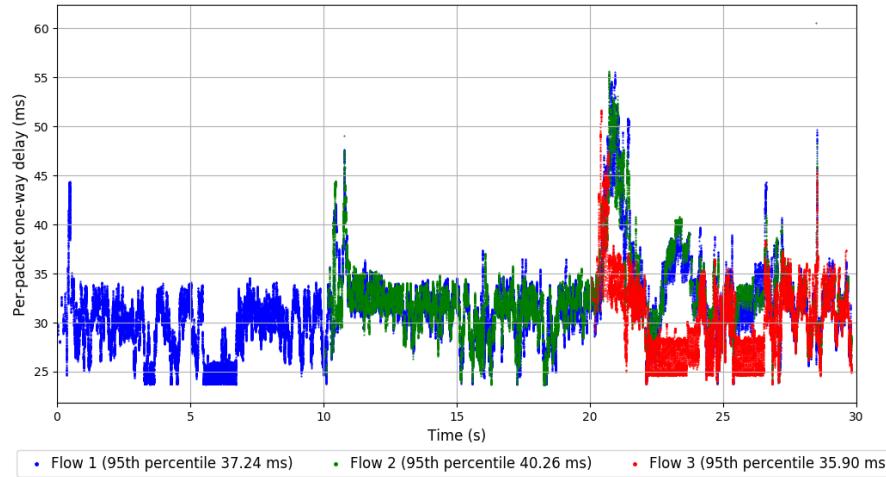
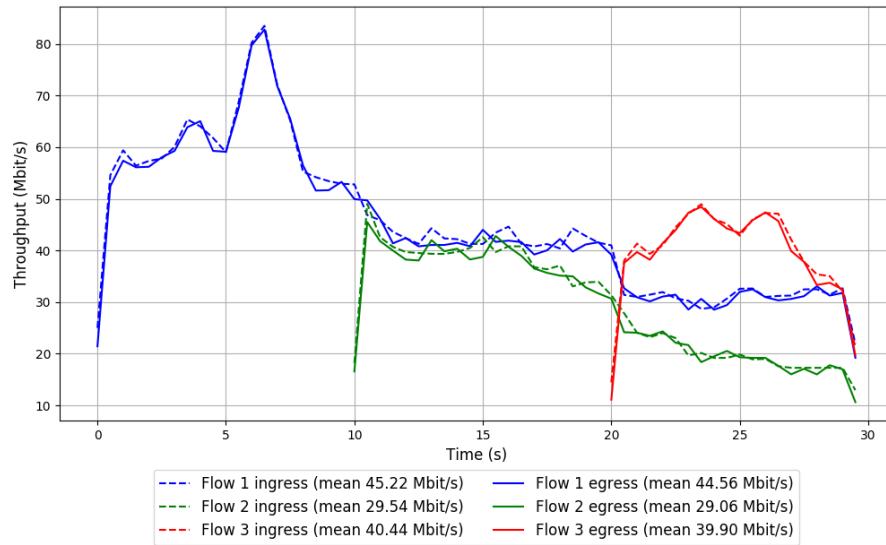


Run 6: Statistics of Indigo

```
Start at: 2018-01-17 01:28:43
End at: 2018-01-17 01:29:13
Local clock offset: -0.083 ms
Remote clock offset: -1.596 ms

# Below is generated by plot.py at 2018-01-17 07:59:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.86 Mbit/s
95th percentile per-packet one-way delay: 37.665 ms
Loss rate: 1.77%
-- Flow 1:
Average throughput: 44.56 Mbit/s
95th percentile per-packet one-way delay: 37.240 ms
Loss rate: 1.66%
-- Flow 2:
Average throughput: 29.06 Mbit/s
95th percentile per-packet one-way delay: 40.264 ms
Loss rate: 1.92%
-- Flow 3:
Average throughput: 39.90 Mbit/s
95th percentile per-packet one-way delay: 35.896 ms
Loss rate: 1.95%
```

## Run 6: Report of Indigo — Data Link

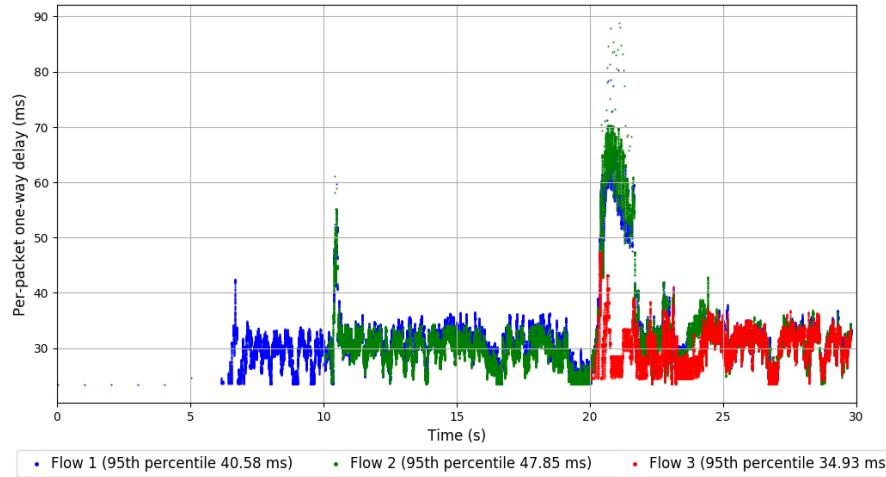
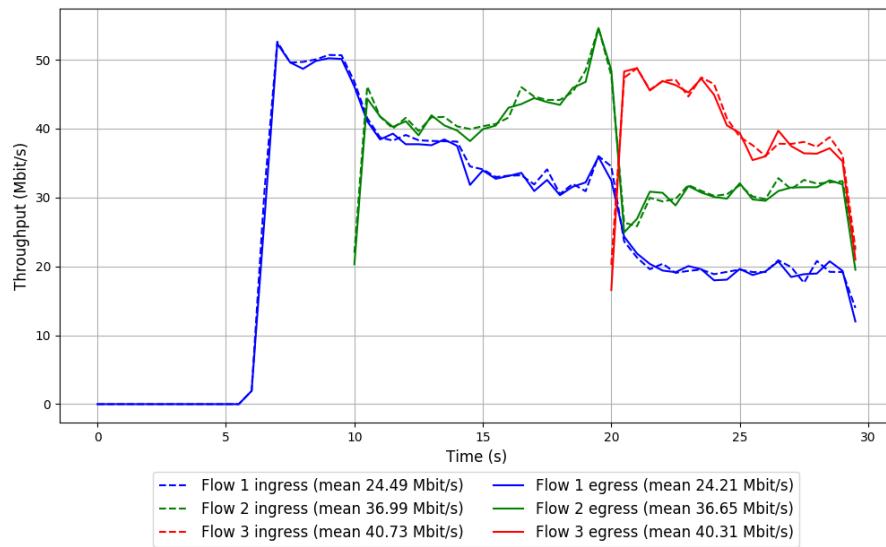


Run 7: Statistics of Indigo

```
Start at: 2018-01-17 01:56:17
End at: 2018-01-17 01:56:47
Local clock offset: -0.297 ms
Remote clock offset: -1.508 ms

# Below is generated by plot.py at 2018-01-17 07:59:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 61.67 Mbit/s
95th percentile per-packet one-way delay: 38.276 ms
Loss rate: 1.34%
-- Flow 1:
Average throughput: 24.21 Mbit/s
95th percentile per-packet one-way delay: 40.575 ms
Loss rate: 1.33%
-- Flow 2:
Average throughput: 36.65 Mbit/s
95th percentile per-packet one-way delay: 47.853 ms
Loss rate: 1.21%
-- Flow 3:
Average throughput: 40.31 Mbit/s
95th percentile per-packet one-way delay: 34.930 ms
Loss rate: 1.59%
```

## Run 7: Report of Indigo — Data Link

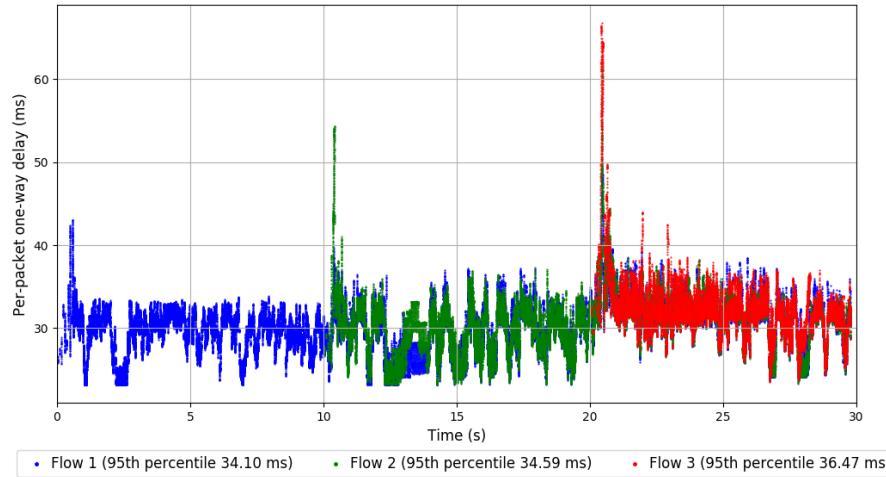
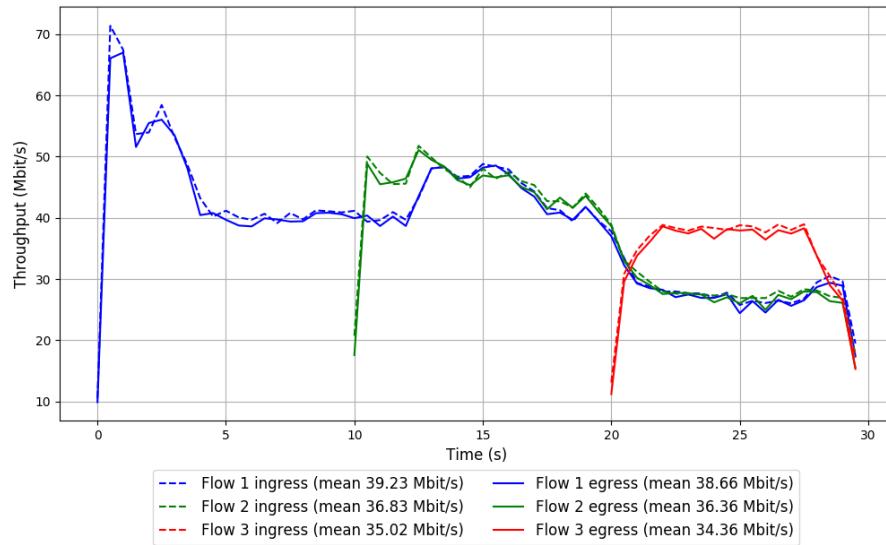


Run 8: Statistics of Indigo

```
Start at: 2018-01-17 02:23:20
End at: 2018-01-17 02:23:50
Local clock offset: -0.284 ms
Remote clock offset: -1.202 ms

# Below is generated by plot.py at 2018-01-17 08:00:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 73.99 Mbit/s
95th percentile per-packet one-way delay: 34.882 ms
Loss rate: 1.73%
-- Flow 1:
Average throughput: 38.66 Mbit/s
95th percentile per-packet one-way delay: 34.102 ms
Loss rate: 1.63%
-- Flow 2:
Average throughput: 36.36 Mbit/s
95th percentile per-packet one-way delay: 34.589 ms
Loss rate: 1.56%
-- Flow 3:
Average throughput: 34.36 Mbit/s
95th percentile per-packet one-way delay: 36.466 ms
Loss rate: 2.46%
```

Run 8: Report of Indigo — Data Link

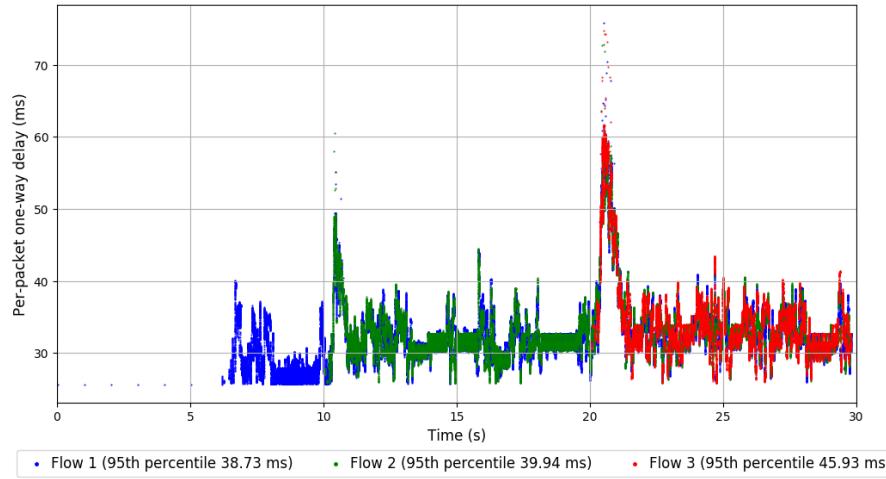
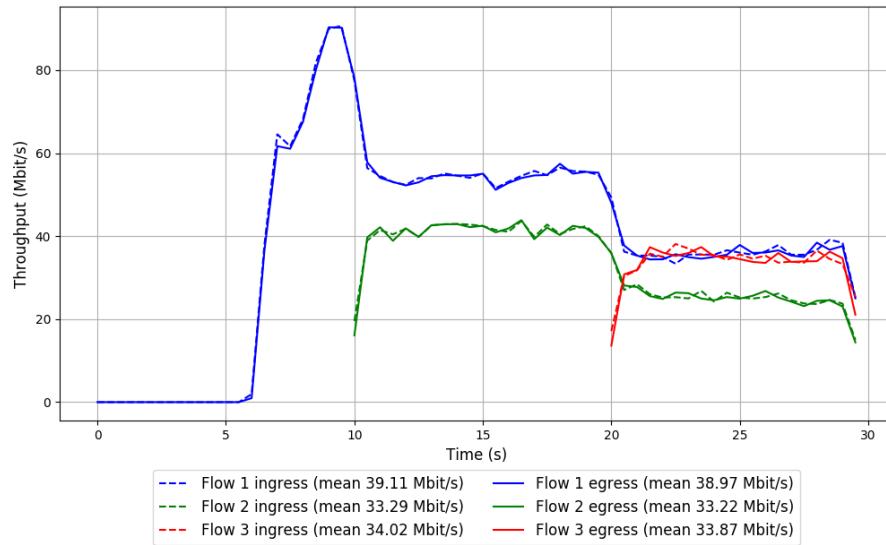


Run 9: Statistics of Indigo

```
Start at: 2018-01-17 02:50:13
End at: 2018-01-17 02:50:43
Local clock offset: -0.46 ms
Remote clock offset: -3.836 ms

# Below is generated by plot.py at 2018-01-17 08:00:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 72.04 Mbit/s
95th percentile per-packet one-way delay: 39.605 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 38.97 Mbit/s
95th percentile per-packet one-way delay: 38.727 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 33.22 Mbit/s
95th percentile per-packet one-way delay: 39.937 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 33.87 Mbit/s
95th percentile per-packet one-way delay: 45.931 ms
Loss rate: 1.03%
```

## Run 9: Report of Indigo — Data Link

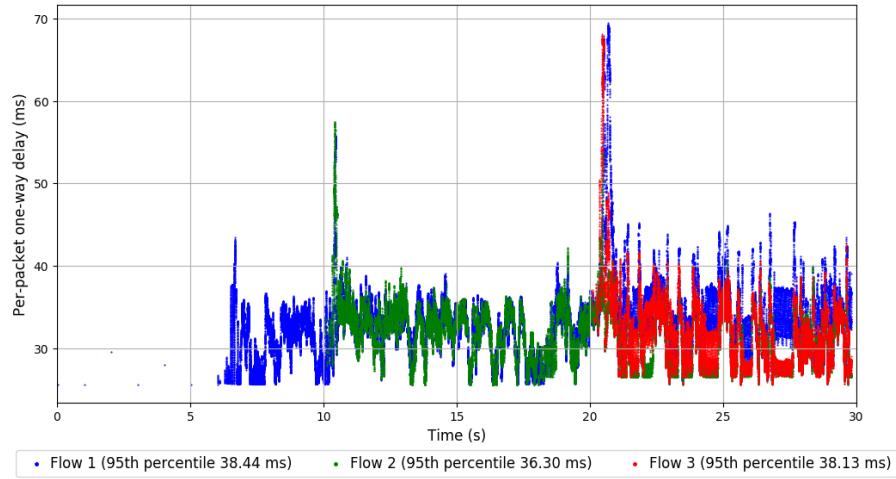
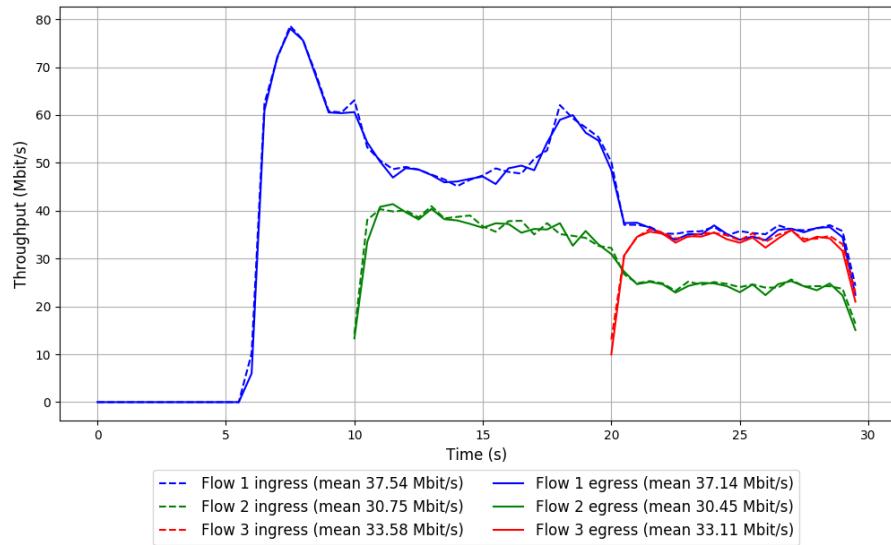


Run 10: Statistics of Indigo

```
Start at: 2018-01-17 03:15:21
End at: 2018-01-17 03:15:51
Local clock offset: -0.639 ms
Remote clock offset: -4.015 ms

# Below is generated by plot.py at 2018-01-17 08:00:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 68.11 Mbit/s
95th percentile per-packet one-way delay: 37.746 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 37.14 Mbit/s
95th percentile per-packet one-way delay: 38.442 ms
Loss rate: 1.24%
-- Flow 2:
Average throughput: 30.45 Mbit/s
95th percentile per-packet one-way delay: 36.296 ms
Loss rate: 1.27%
-- Flow 3:
Average throughput: 33.11 Mbit/s
95th percentile per-packet one-way delay: 38.130 ms
Loss rate: 2.02%
```

## Run 10: Report of Indigo — Data Link

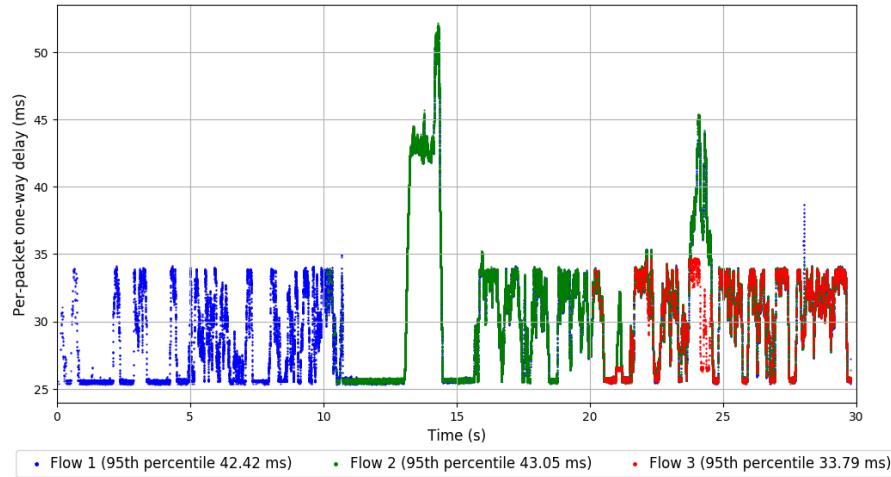
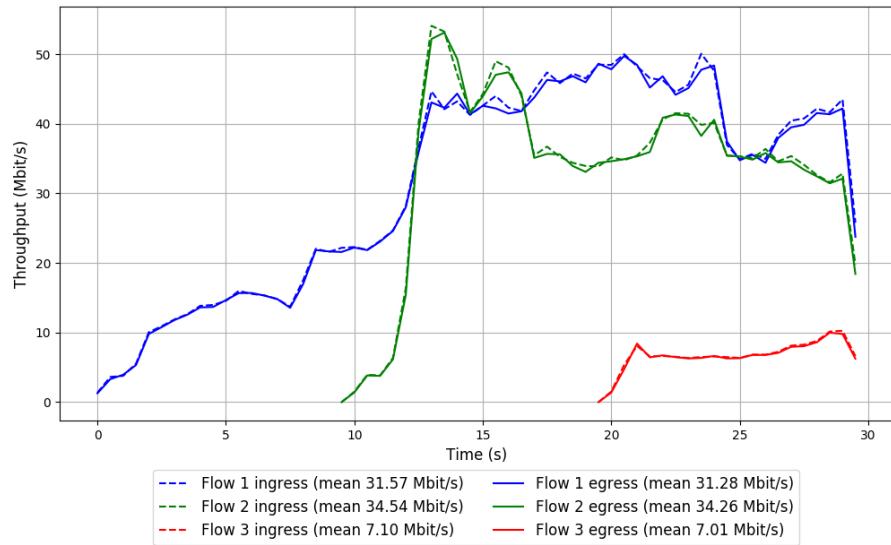


```
Run 1: Statistics of Vivace-latency
```

```
Start at: 2018-01-16 23:01:20
End at: 2018-01-16 23:01:50
Local clock offset: 0.56 ms
Remote clock offset: -5.809 ms

# Below is generated by plot.py at 2018-01-17 08:00:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 56.39 Mbit/s
95th percentile per-packet one-way delay: 42.733 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 31.28 Mbit/s
95th percentile per-packet one-way delay: 42.420 ms
Loss rate: 1.09%
-- Flow 2:
Average throughput: 34.26 Mbit/s
95th percentile per-packet one-way delay: 43.049 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 7.01 Mbit/s
95th percentile per-packet one-way delay: 33.790 ms
Loss rate: 1.89%
```

### Run 1: Report of Vivace-latency — Data Link

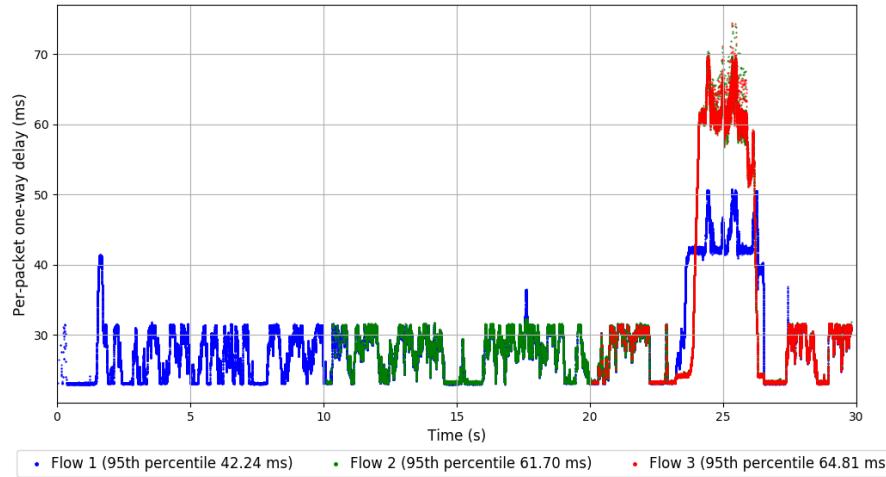
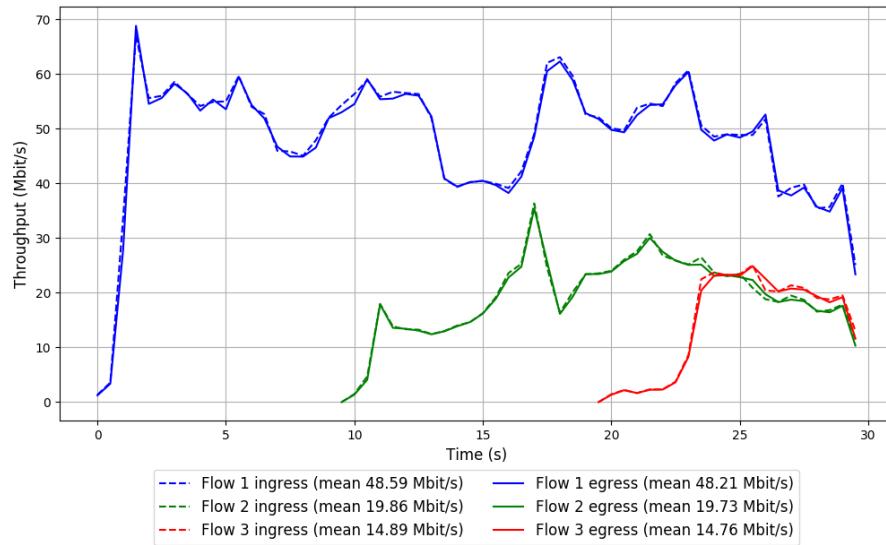


Run 2: Statistics of Vivace-latency

```
Start at: 2018-01-16 23:27:30
End at: 2018-01-16 23:28:00
Local clock offset: 0.888 ms
Remote clock offset: -2.228 ms

# Below is generated by plot.py at 2018-01-17 08:01:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.19 Mbit/s
95th percentile per-packet one-way delay: 52.465 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 48.21 Mbit/s
95th percentile per-packet one-way delay: 42.236 ms
Loss rate: 0.96%
-- Flow 2:
Average throughput: 19.73 Mbit/s
95th percentile per-packet one-way delay: 61.702 ms
Loss rate: 0.96%
-- Flow 3:
Average throughput: 14.76 Mbit/s
95th percentile per-packet one-way delay: 64.814 ms
Loss rate: 1.47%
```

Run 2: Report of Vivace-latency — Data Link

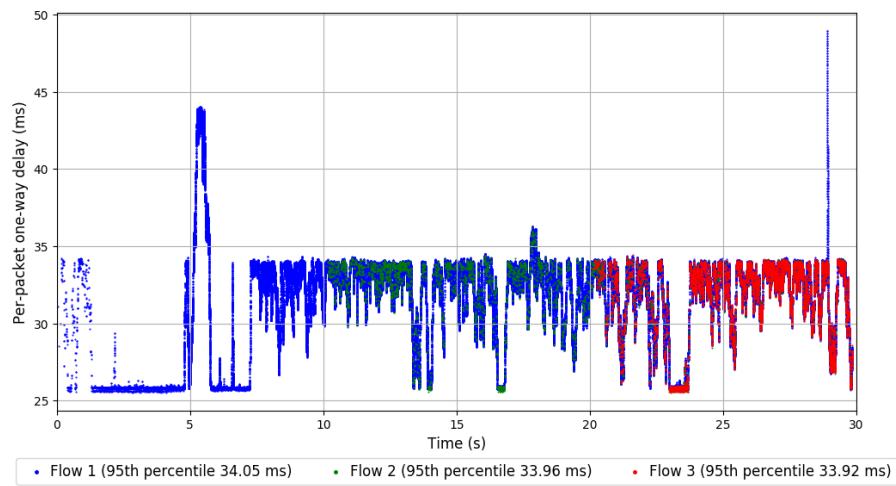
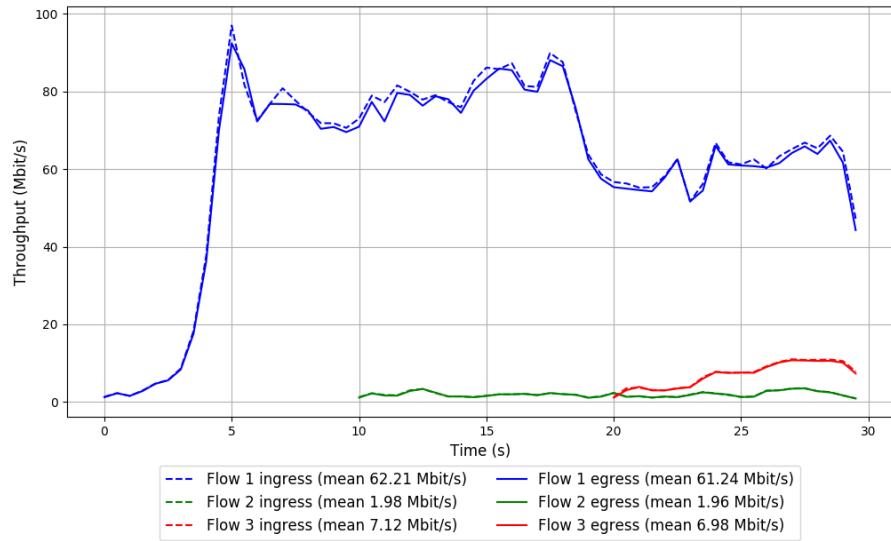


Run 3: Statistics of Vivace-latency

```
Start at: 2018-01-16 23:54:11
End at: 2018-01-16 23:54:41
Local clock offset: 0.837 ms
Remote clock offset: -4.034 ms

# Below is generated by plot.py at 2018-01-17 08:01:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 64.83 Mbit/s
95th percentile per-packet one-way delay: 34.038 ms
Loss rate: 1.78%
-- Flow 1:
Average throughput: 61.24 Mbit/s
95th percentile per-packet one-way delay: 34.053 ms
Loss rate: 1.75%
-- Flow 2:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 33.956 ms
Loss rate: 1.75%
-- Flow 3:
Average throughput: 6.98 Mbit/s
95th percentile per-packet one-way delay: 33.923 ms
Loss rate: 2.61%
```

Run 3: Report of Vivace-latency — Data Link

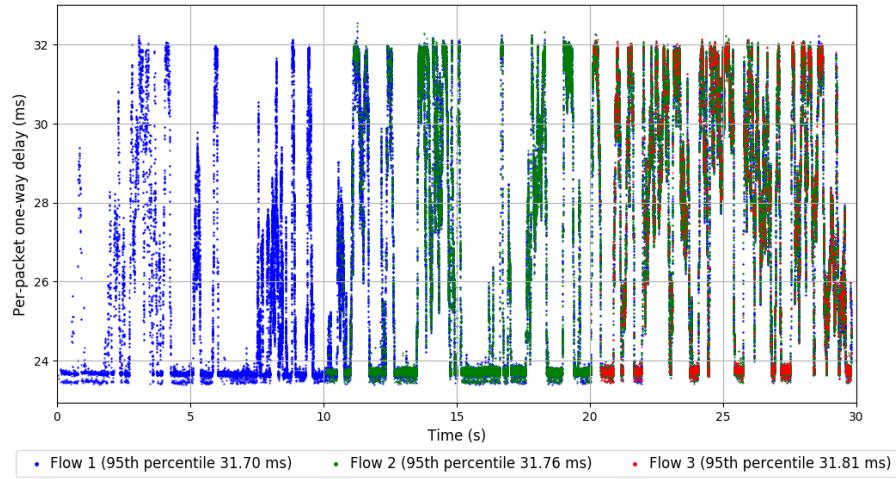
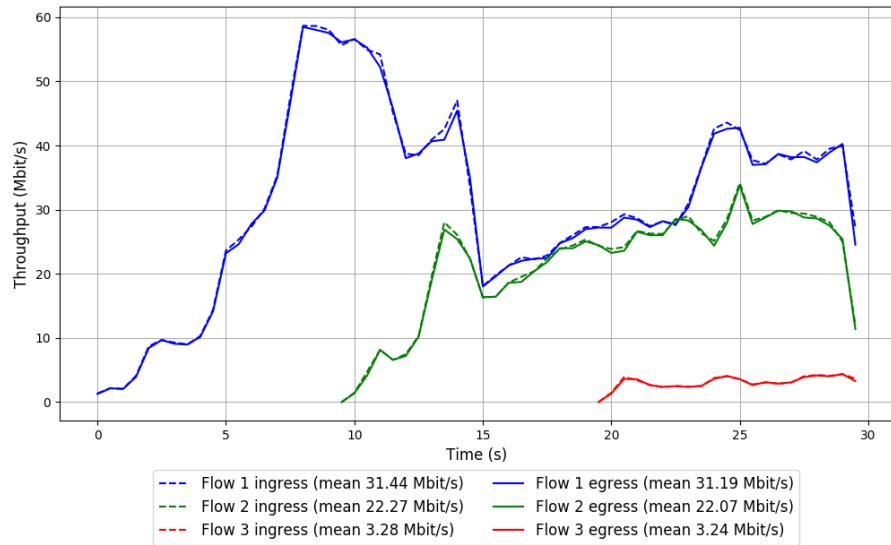


Run 4: Statistics of Vivace-latency

```
Start at: 2018-01-17 00:21:38
End at: 2018-01-17 00:22:08
Local clock offset: 0.483 ms
Remote clock offset: -1.487 ms

# Below is generated by plot.py at 2018-01-17 08:01:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 46.94 Mbit/s
95th percentile per-packet one-way delay: 31.729 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 31.19 Mbit/s
95th percentile per-packet one-way delay: 31.704 ms
Loss rate: 0.96%
-- Flow 2:
Average throughput: 22.07 Mbit/s
95th percentile per-packet one-way delay: 31.761 ms
Loss rate: 1.20%
-- Flow 3:
Average throughput: 3.24 Mbit/s
95th percentile per-packet one-way delay: 31.806 ms
Loss rate: 1.69%
```

Run 4: Report of Vivace-latency — Data Link

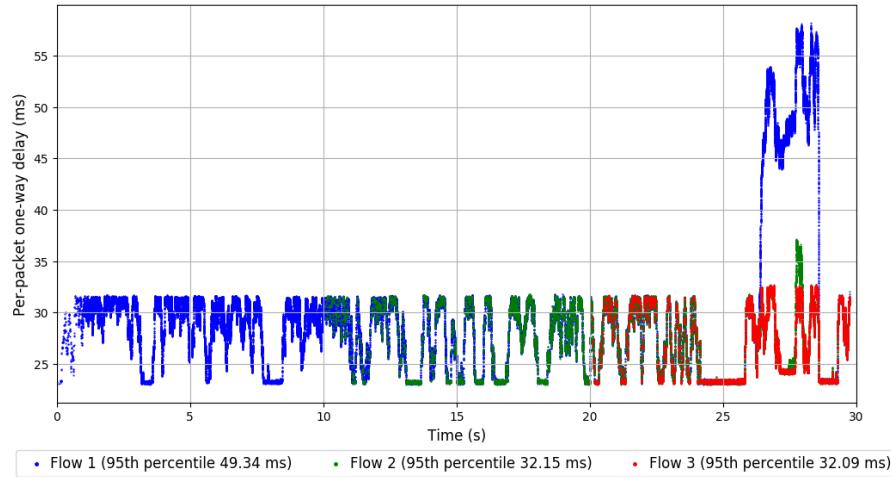
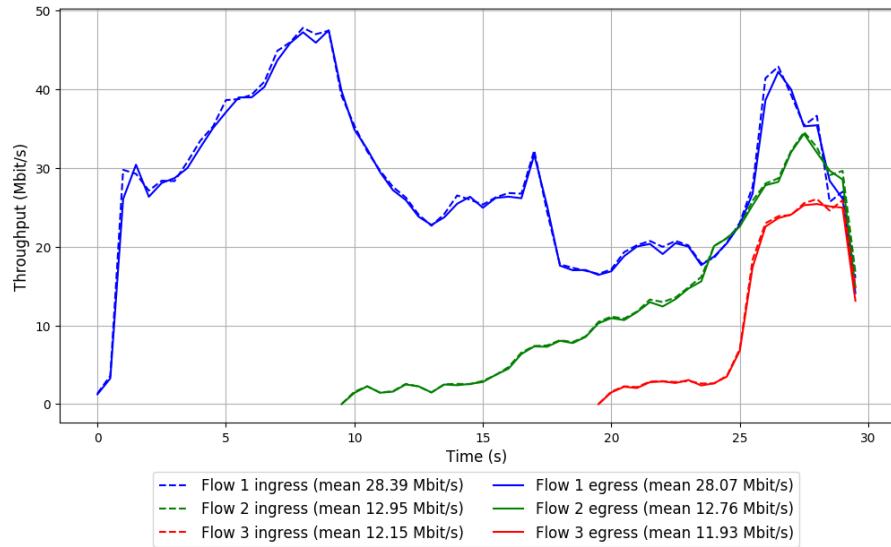


Run 5: Statistics of Vivace-latency

```
Start at: 2018-01-17 00:48:51
End at: 2018-01-17 00:49:21
Local clock offset: 0.34 ms
Remote clock offset: -1.015 ms

# Below is generated by plot.py at 2018-01-17 08:01:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 40.50 Mbit/s
95th percentile per-packet one-way delay: 47.001 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 28.07 Mbit/s
95th percentile per-packet one-way delay: 49.335 ms
Loss rate: 1.33%
-- Flow 2:
Average throughput: 12.76 Mbit/s
95th percentile per-packet one-way delay: 32.150 ms
Loss rate: 1.71%
-- Flow 3:
Average throughput: 11.93 Mbit/s
95th percentile per-packet one-way delay: 32.091 ms
Loss rate: 2.29%
```

Run 5: Report of Vivace-latency — Data Link

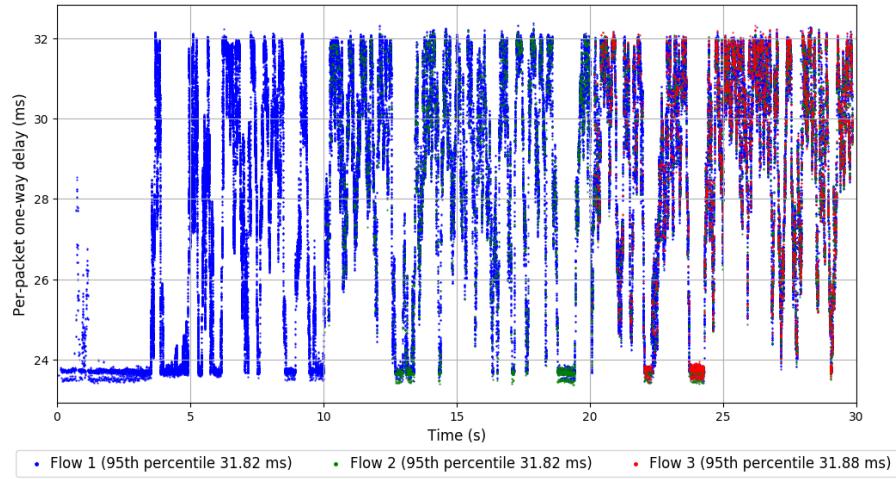
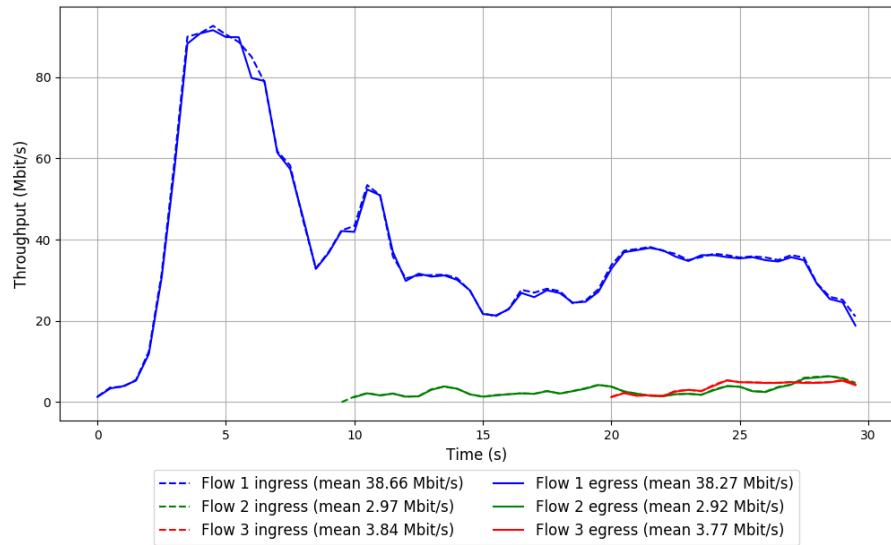


Run 6: Statistics of Vivace-latency

```
Start at: 2018-01-17 01:16:46
End at: 2018-01-17 01:17:16
Local clock offset: -0.038 ms
Remote clock offset: -1.697 ms

# Below is generated by plot.py at 2018-01-17 08:01:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 41.45 Mbit/s
95th percentile per-packet one-way delay: 31.823 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 38.27 Mbit/s
95th percentile per-packet one-way delay: 31.821 ms
Loss rate: 1.19%
-- Flow 2:
Average throughput: 2.92 Mbit/s
95th percentile per-packet one-way delay: 31.822 ms
Loss rate: 1.95%
-- Flow 3:
Average throughput: 3.77 Mbit/s
95th percentile per-packet one-way delay: 31.876 ms
Loss rate: 2.34%
```

## Run 6: Report of Vivace-latency — Data Link

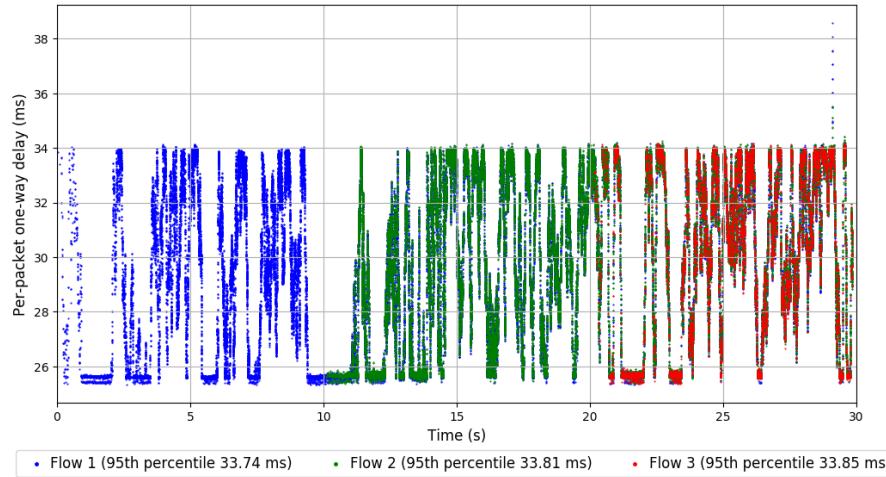
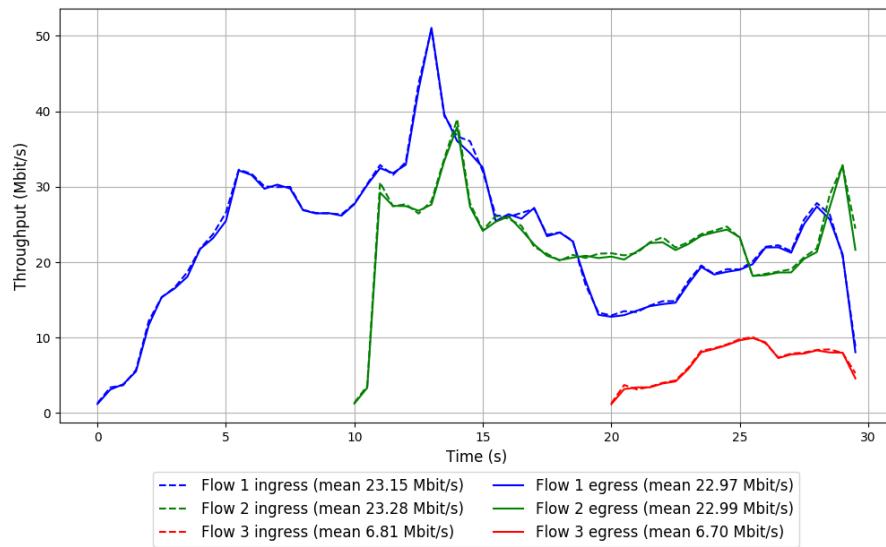


Run 7: Statistics of Vivace-latency

```
Start at: 2018-01-17 01:44:09
End at: 2018-01-17 01:44:39
Local clock offset: -0.257 ms
Remote clock offset: -3.614 ms

# Below is generated by plot.py at 2018-01-17 08:01:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 40.45 Mbit/s
95th percentile per-packet one-way delay: 33.777 ms
Loss rate: 1.24%
-- Flow 1:
Average throughput: 22.97 Mbit/s
95th percentile per-packet one-way delay: 33.739 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 22.99 Mbit/s
95th percentile per-packet one-way delay: 33.815 ms
Loss rate: 1.52%
-- Flow 3:
Average throughput: 6.70 Mbit/s
95th percentile per-packet one-way delay: 33.846 ms
Loss rate: 2.09%
```

Run 7: Report of Vivace-latency — Data Link

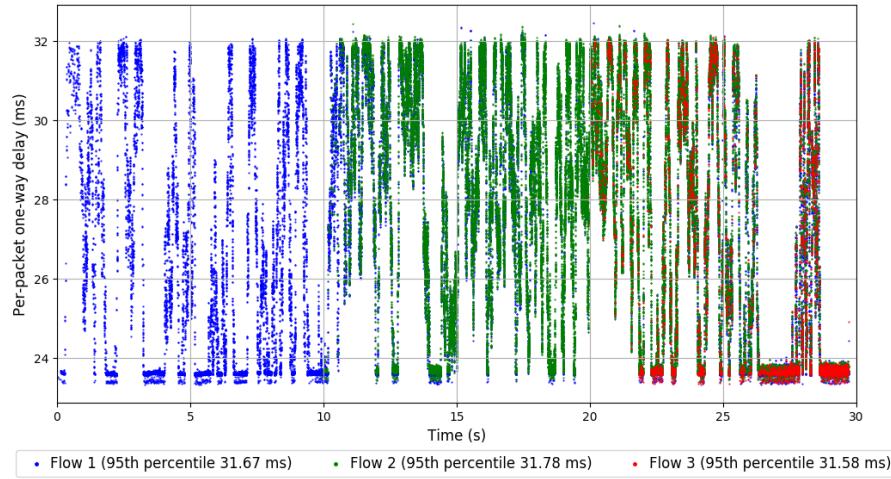
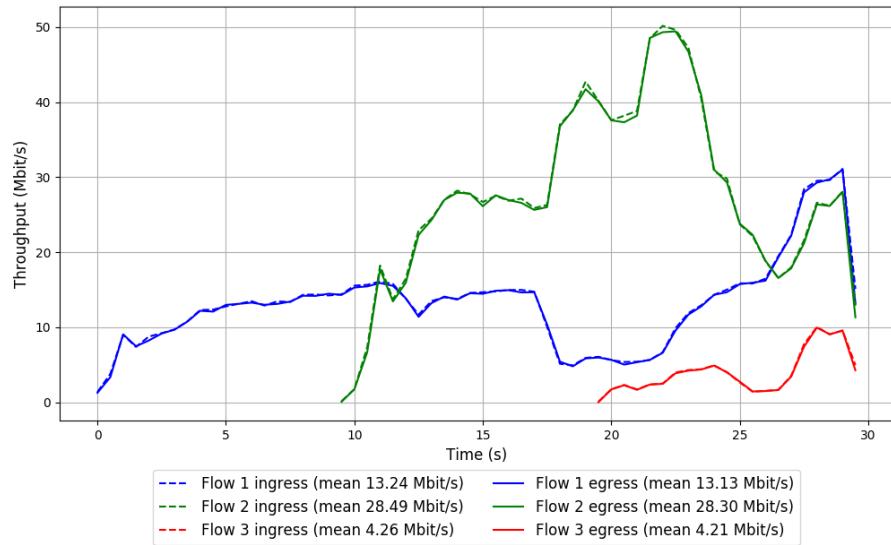


Run 8: Statistics of Vivace-latency

```
Start at: 2018-01-17 02:11:23
End at: 2018-01-17 02:11:53
Local clock offset: -0.36 ms
Remote clock offset: -1.704 ms

# Below is generated by plot.py at 2018-01-17 08:01:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 33.42 Mbit/s
95th percentile per-packet one-way delay: 31.738 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 13.13 Mbit/s
95th percentile per-packet one-way delay: 31.669 ms
Loss rate: 1.02%
-- Flow 2:
Average throughput: 28.30 Mbit/s
95th percentile per-packet one-way delay: 31.781 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 4.21 Mbit/s
95th percentile per-packet one-way delay: 31.579 ms
Loss rate: 1.88%
```

### Run 8: Report of Vivace-latency — Data Link

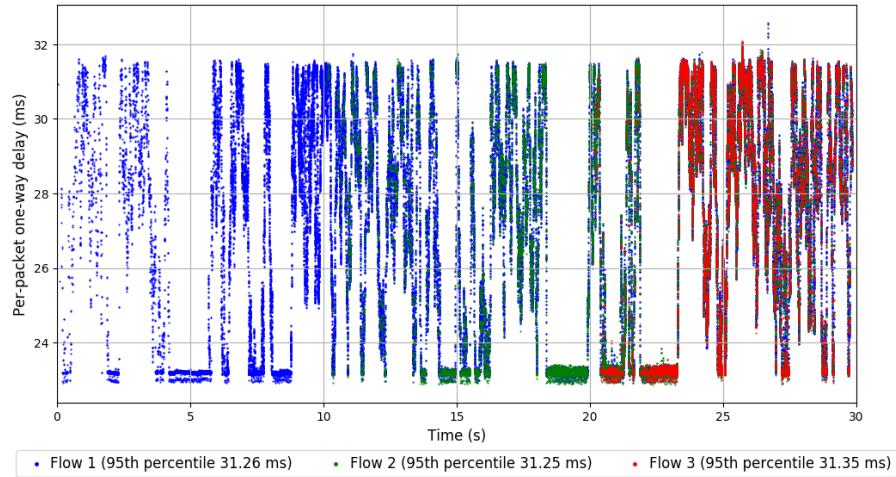
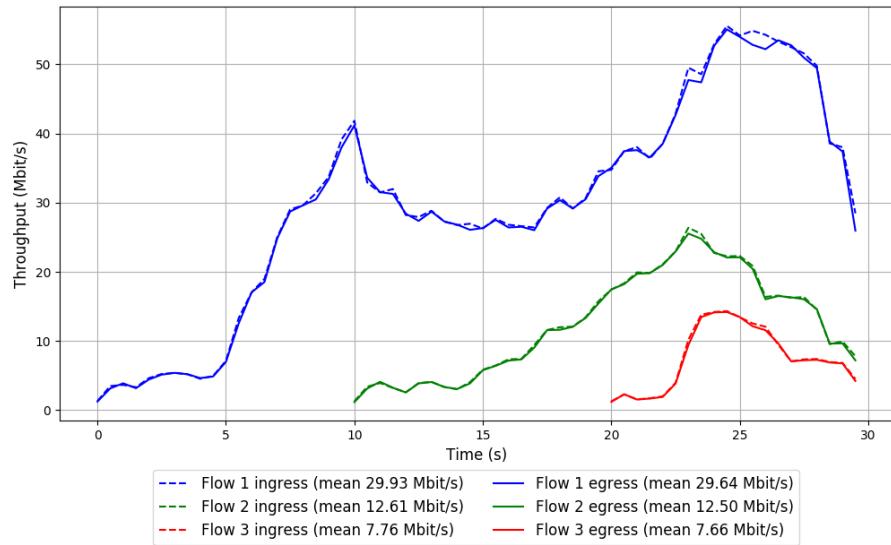


Run 9: Statistics of Vivace-latency

```
Start at: 2018-01-17 02:38:28
End at: 2018-01-17 02:38:58
Local clock offset: -0.402 ms
Remote clock offset: -1.17 ms

# Below is generated by plot.py at 2018-01-17 08:01:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 40.46 Mbit/s
95th percentile per-packet one-way delay: 31.266 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 29.64 Mbit/s
95th percentile per-packet one-way delay: 31.259 ms
Loss rate: 1.15%
-- Flow 2:
Average throughput: 12.50 Mbit/s
95th percentile per-packet one-way delay: 31.252 ms
Loss rate: 1.20%
-- Flow 3:
Average throughput: 7.66 Mbit/s
95th percentile per-packet one-way delay: 31.349 ms
Loss rate: 1.95%
```

Run 9: Report of Vivace-latency — Data Link

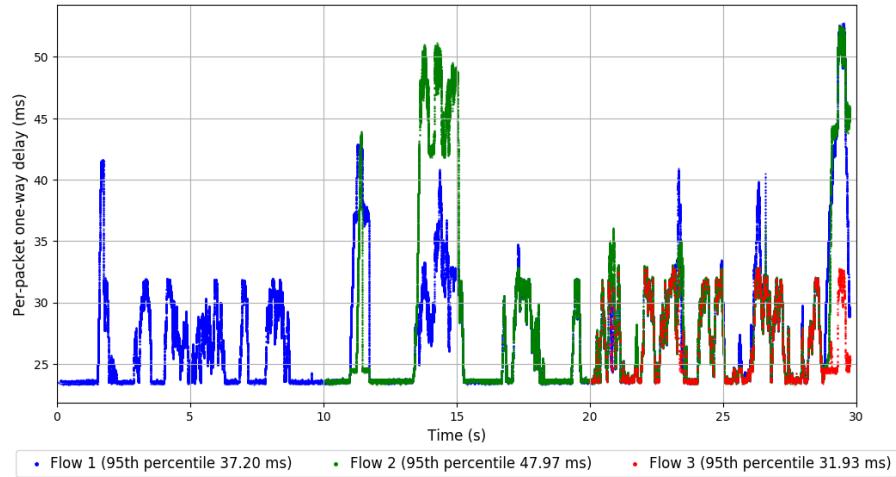
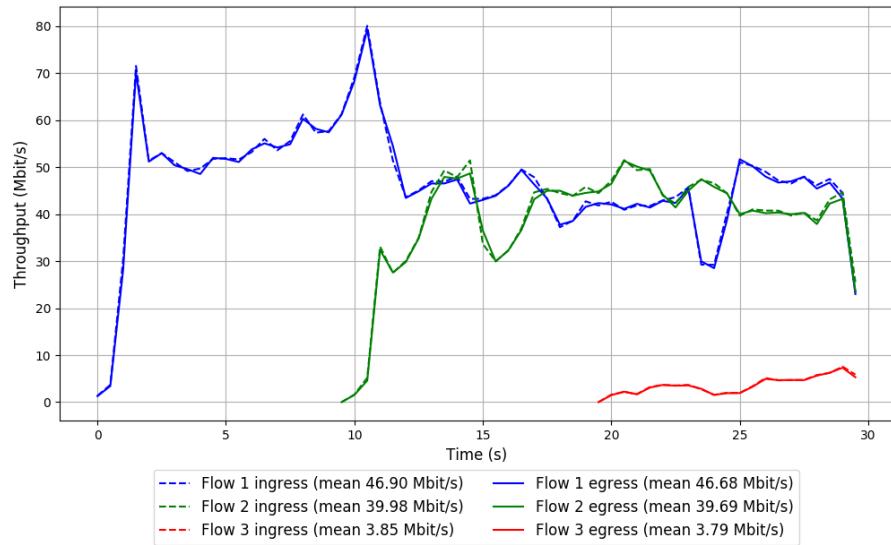


Run 10: Statistics of Vivace-latency

```
Start at: 2018-01-17 03:03:57
End at: 2018-01-17 03:04:27
Local clock offset: -0.668 ms
Remote clock offset: -1.921 ms

# Below is generated by plot.py at 2018-01-17 08:02:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 74.37 Mbit/s
95th percentile per-packet one-way delay: 42.603 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 46.68 Mbit/s
95th percentile per-packet one-way delay: 37.195 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 39.69 Mbit/s
95th percentile per-packet one-way delay: 47.972 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 3.79 Mbit/s
95th percentile per-packet one-way delay: 31.932 ms
Loss rate: 2.02%
```

Run 10: Report of Vivace-latency — Data Link

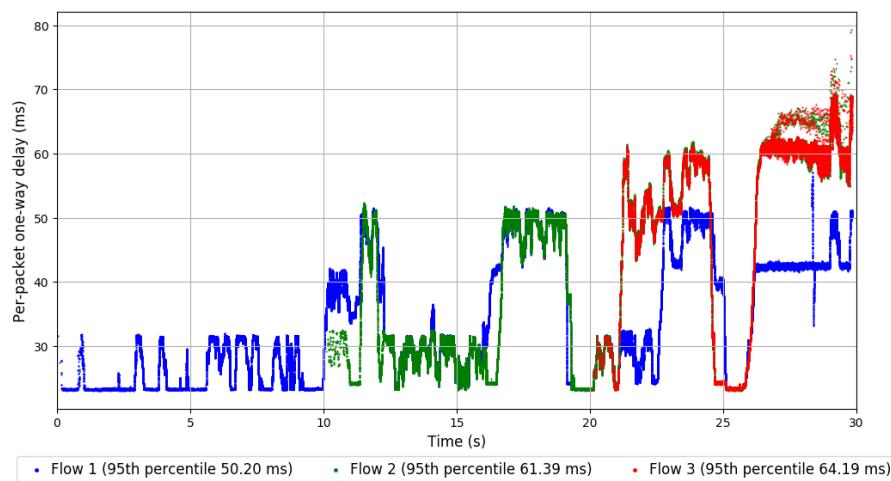
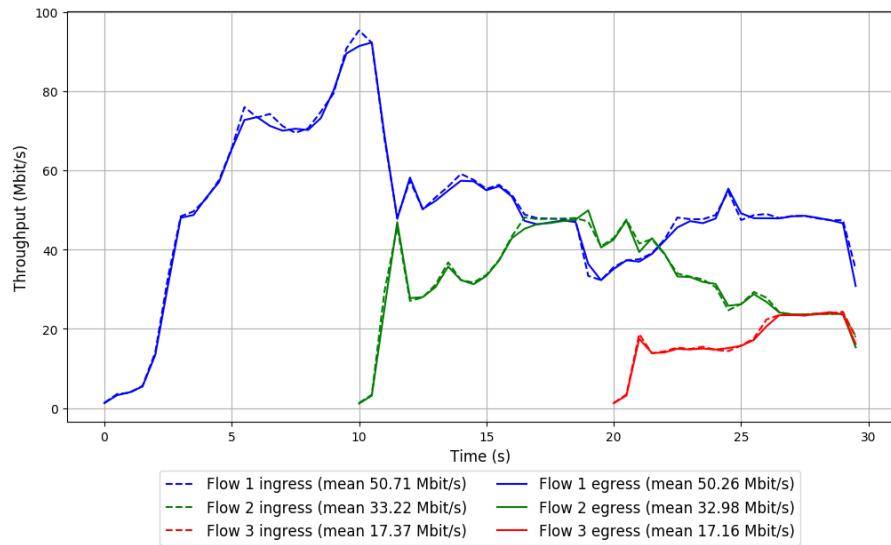


```
Run 1: Statistics of Vivace-loss
```

```
Start at: 2018-01-16 22:54:05
End at: 2018-01-16 22:54:35
Local clock offset: 0.513 ms
Remote clock offset: -3.536 ms

# Below is generated by plot.py at 2018-01-17 08:02:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.80 Mbit/s
95th percentile per-packet one-way delay: 60.556 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 50.26 Mbit/s
95th percentile per-packet one-way delay: 50.202 ms
Loss rate: 1.13%
-- Flow 2:
Average throughput: 32.98 Mbit/s
95th percentile per-packet one-way delay: 61.387 ms
Loss rate: 1.21%
-- Flow 3:
Average throughput: 17.16 Mbit/s
95th percentile per-packet one-way delay: 64.187 ms
Loss rate: 1.78%
```

Run 1: Report of Vivace-loss — Data Link

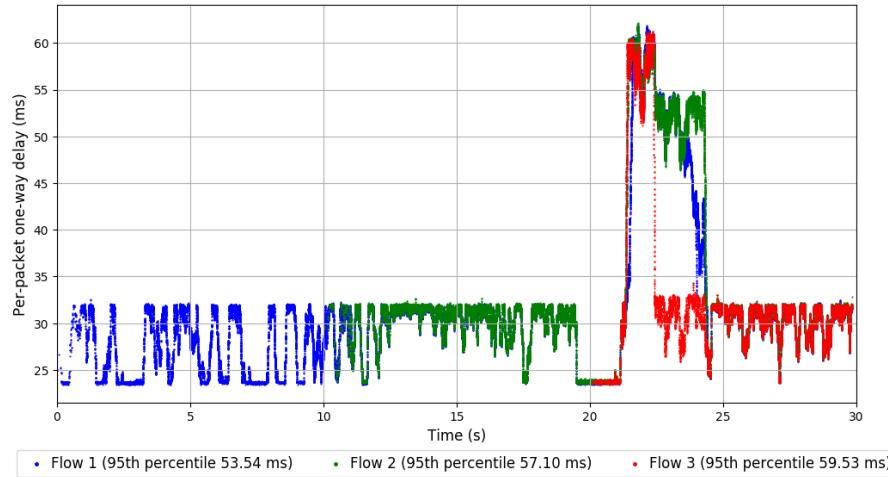
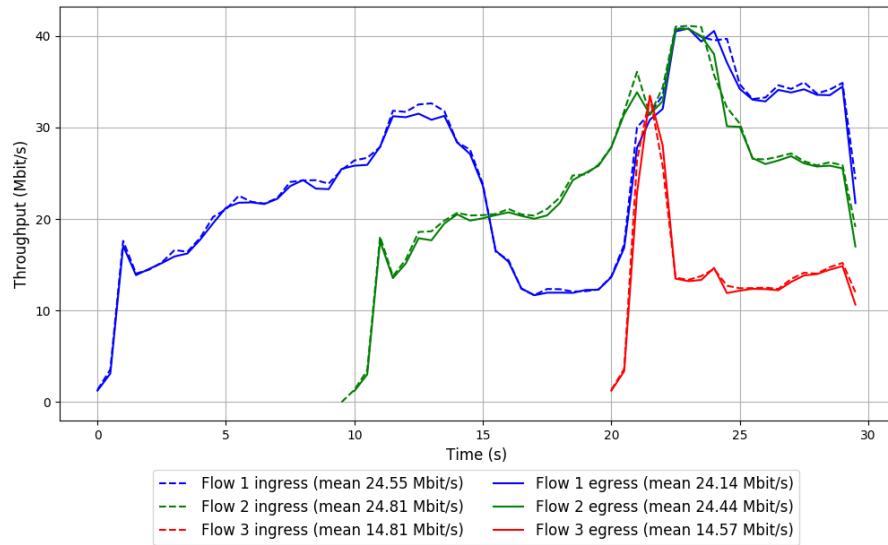


Run 2: Statistics of Vivace-loss

```
Start at: 2018-01-16 23:19:56
End at: 2018-01-16 23:20:26
Local clock offset: 0.776 ms
Remote clock offset: -3.095 ms

# Below is generated by plot.py at 2018-01-17 08:02:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 45.18 Mbit/s
95th percentile per-packet one-way delay: 56.857 ms
Loss rate: 1.84%
-- Flow 1:
Average throughput: 24.14 Mbit/s
95th percentile per-packet one-way delay: 53.544 ms
Loss rate: 1.81%
-- Flow 2:
Average throughput: 24.44 Mbit/s
95th percentile per-packet one-way delay: 57.096 ms
Loss rate: 1.79%
-- Flow 3:
Average throughput: 14.57 Mbit/s
95th percentile per-packet one-way delay: 59.526 ms
Loss rate: 2.14%
```

Run 2: Report of Vivace-loss — Data Link

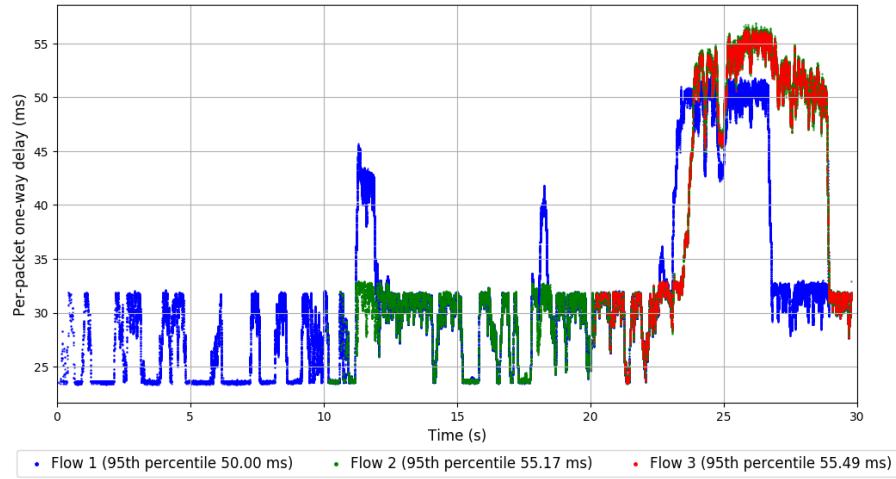
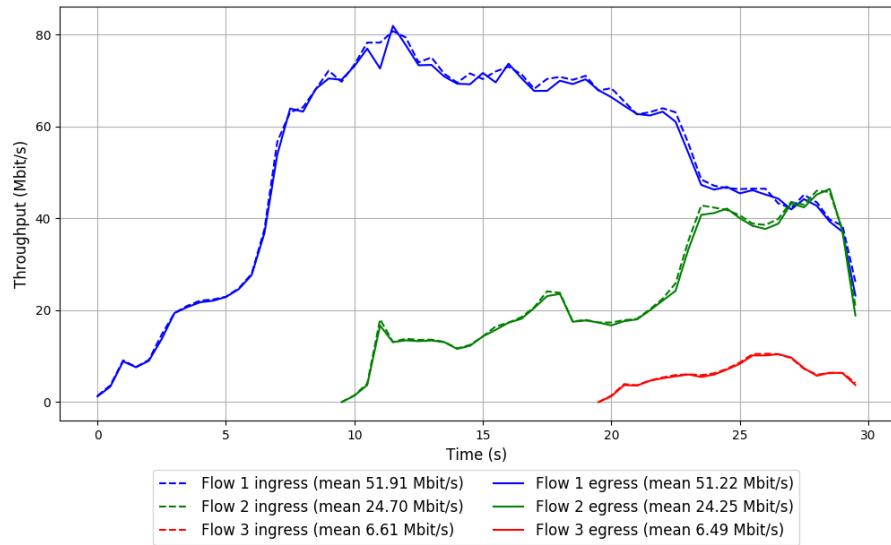


```
Run 3: Statistics of Vivace-loss
```

```
Start at: 2018-01-16 23:46:30
End at: 2018-01-16 23:47:00
Local clock offset: 0.923 ms
Remote clock offset: -2.037 ms

# Below is generated by plot.py at 2018-01-17 08:02:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 69.49 Mbit/s
95th percentile per-packet one-way delay: 52.801 ms
Loss rate: 1.67%
-- Flow 1:
Average throughput: 51.22 Mbit/s
95th percentile per-packet one-way delay: 50.000 ms
Loss rate: 1.50%
-- Flow 2:
Average throughput: 24.25 Mbit/s
95th percentile per-packet one-way delay: 55.173 ms
Loss rate: 2.07%
-- Flow 3:
Average throughput: 6.49 Mbit/s
95th percentile per-packet one-way delay: 55.487 ms
Loss rate: 2.41%
```

Run 3: Report of Vivace-loss — Data Link

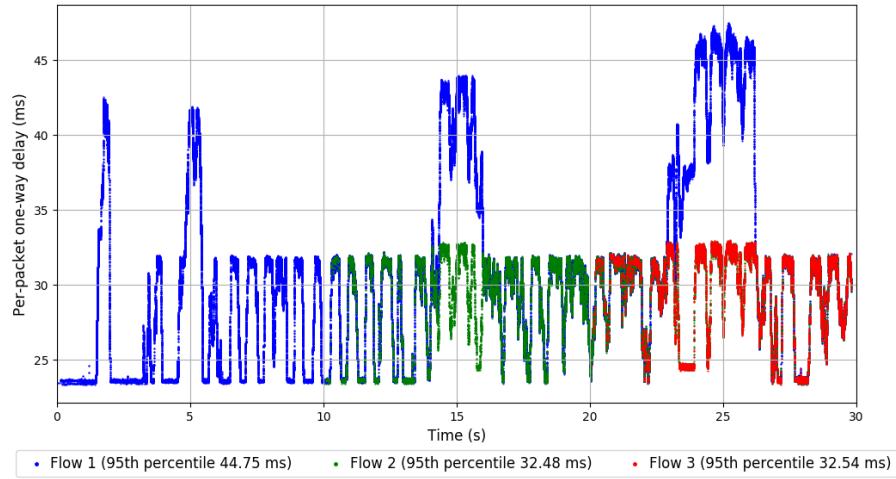
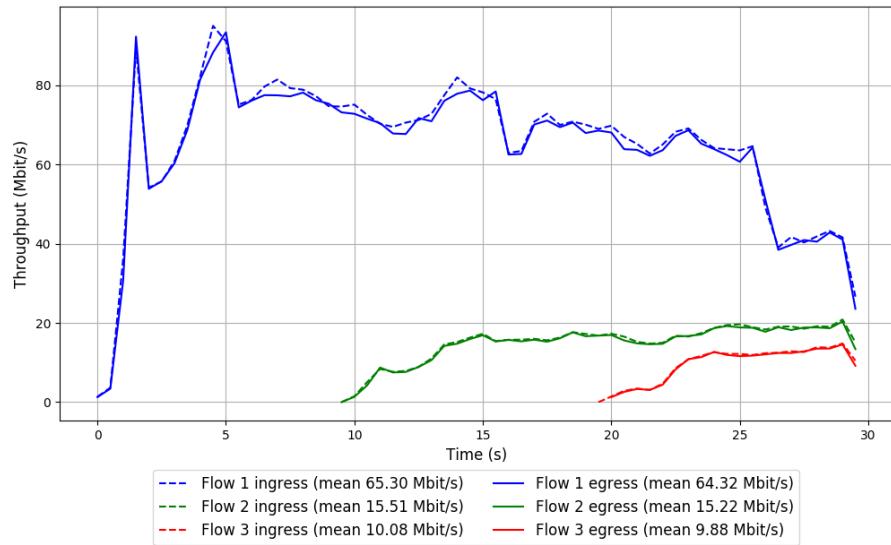


Run 4: Statistics of Vivace-loss

```
Start at: 2018-01-17 00:13:32
End at: 2018-01-17 00:14:02
Local clock offset: 0.695 ms
Remote clock offset: -1.382 ms

# Below is generated by plot.py at 2018-01-17 08:03:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.70 Mbit/s
95th percentile per-packet one-way delay: 43.589 ms
Loss rate: 1.76%
-- Flow 1:
Average throughput: 64.32 Mbit/s
95th percentile per-packet one-way delay: 44.751 ms
Loss rate: 1.67%
-- Flow 2:
Average throughput: 15.22 Mbit/s
95th percentile per-packet one-way delay: 32.478 ms
Loss rate: 2.09%
-- Flow 3:
Average throughput: 9.88 Mbit/s
95th percentile per-packet one-way delay: 32.541 ms
Loss rate: 2.54%
```

Run 4: Report of Vivace-loss — Data Link

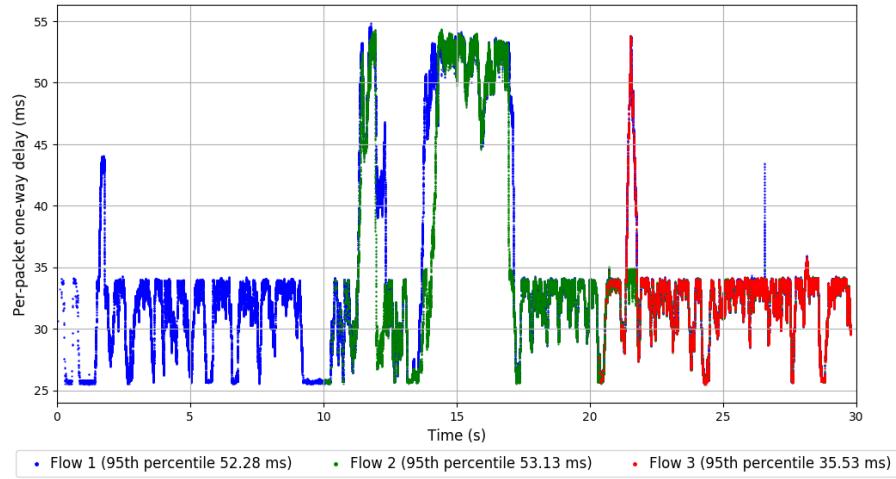
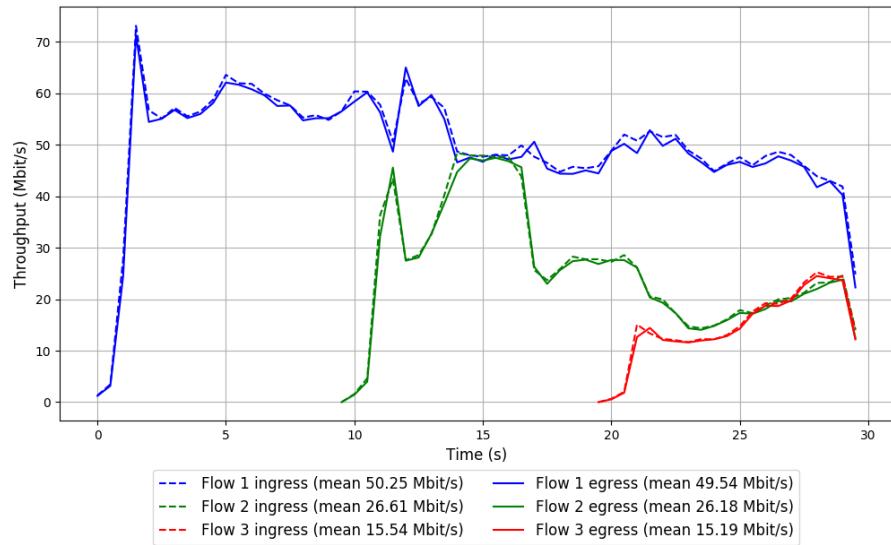


Run 5: Statistics of Vivace-loss

```
Start at: 2018-01-17 00:40:54
End at: 2018-01-17 00:41:24
Local clock offset: 0.335 ms
Remote clock offset: -3.461 ms

# Below is generated by plot.py at 2018-01-17 08:03:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 71.98 Mbit/s
95th percentile per-packet one-way delay: 52.670 ms
Loss rate: 1.76%
-- Flow 1:
Average throughput: 49.54 Mbit/s
95th percentile per-packet one-way delay: 52.285 ms
Loss rate: 1.60%
-- Flow 2:
Average throughput: 26.18 Mbit/s
95th percentile per-packet one-way delay: 53.135 ms
Loss rate: 1.88%
-- Flow 3:
Average throughput: 15.19 Mbit/s
95th percentile per-packet one-way delay: 35.526 ms
Loss rate: 2.88%
```

Run 5: Report of Vivace-loss — Data Link

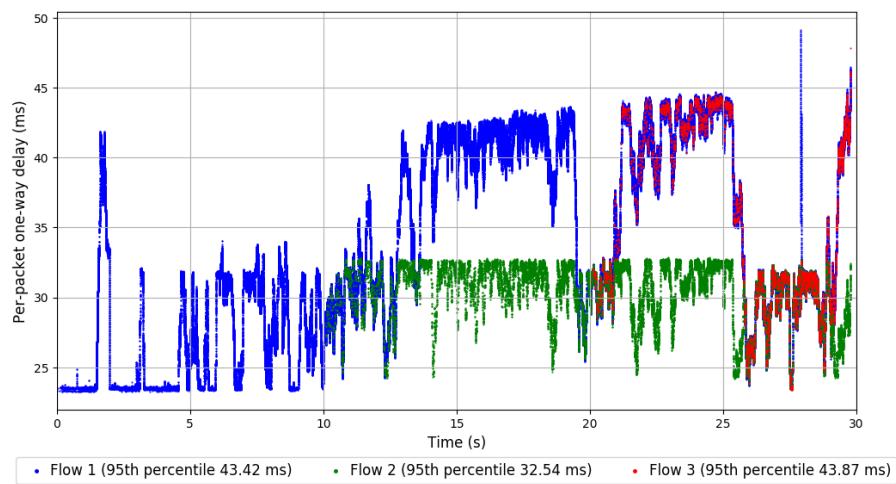
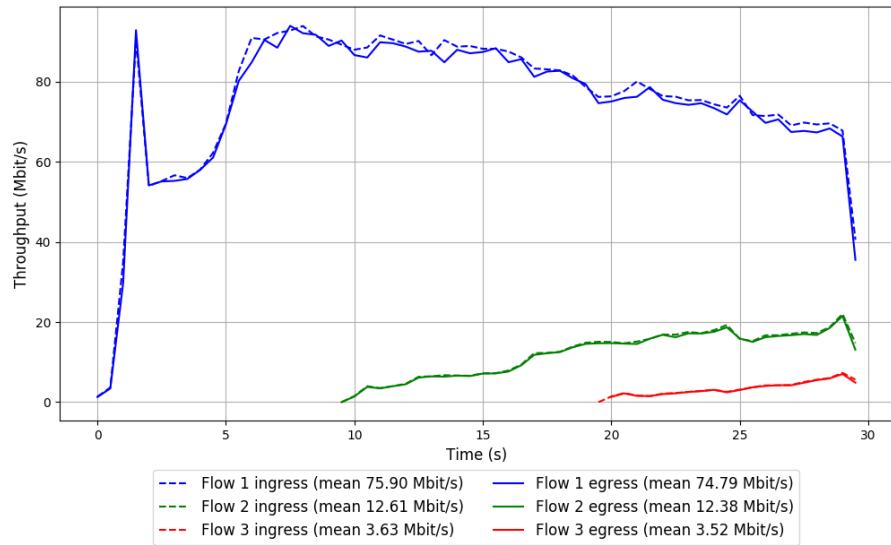


Run 6: Statistics of Vivace-loss

```
Start at: 2018-01-17 01:09:09
End at: 2018-01-17 01:09:39
Local clock offset: 0.103 ms
Remote clock offset: -1.499 ms

# Below is generated by plot.py at 2018-01-17 08:03:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.18 Mbit/s
95th percentile per-packet one-way delay: 43.353 ms
Loss rate: 1.71%
-- Flow 1:
Average throughput: 74.79 Mbit/s
95th percentile per-packet one-way delay: 43.425 ms
Loss rate: 1.64%
-- Flow 2:
Average throughput: 12.38 Mbit/s
95th percentile per-packet one-way delay: 32.542 ms
Loss rate: 2.13%
-- Flow 3:
Average throughput: 3.52 Mbit/s
95th percentile per-packet one-way delay: 43.873 ms
Loss rate: 3.37%
```

Run 6: Report of Vivace-loss — Data Link

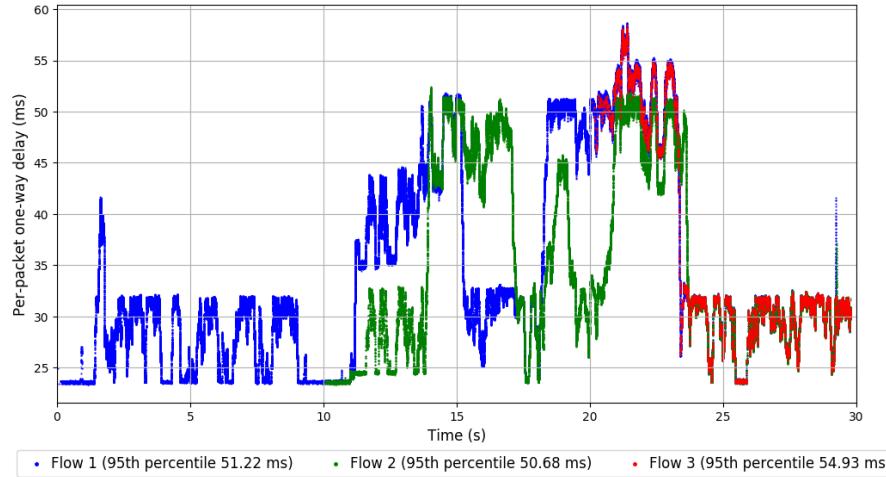
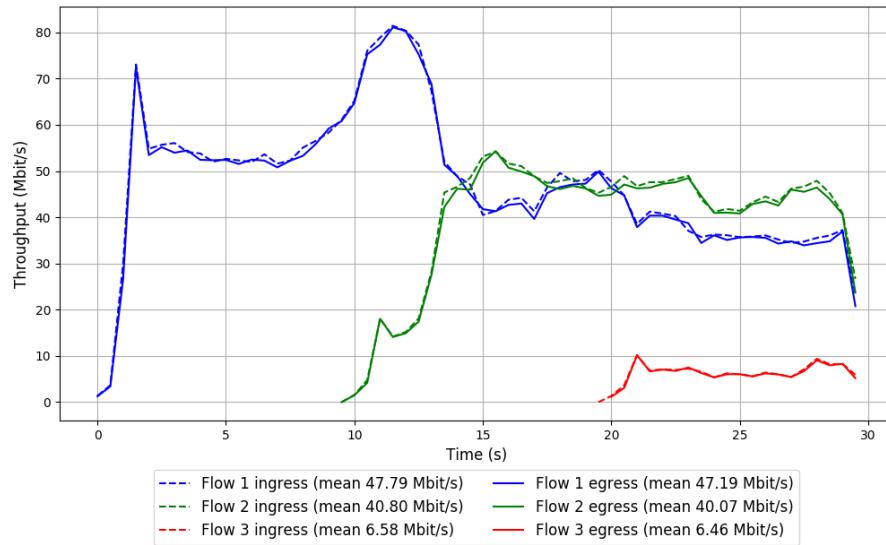


Run 7: Statistics of Vivace-loss

```
Start at: 2018-01-17 01:35:57
End at: 2018-01-17 01:36:27
Local clock offset: -0.134 ms
Remote clock offset: -1.533 ms

# Below is generated by plot.py at 2018-01-17 08:03:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.99 Mbit/s
95th percentile per-packet one-way delay: 50.991 ms
Loss rate: 1.70%
-- Flow 1:
Average throughput: 47.19 Mbit/s
95th percentile per-packet one-way delay: 51.216 ms
Loss rate: 1.45%
-- Flow 2:
Average throughput: 40.07 Mbit/s
95th percentile per-packet one-way delay: 50.681 ms
Loss rate: 2.07%
-- Flow 3:
Average throughput: 6.46 Mbit/s
95th percentile per-packet one-way delay: 54.933 ms
Loss rate: 2.48%
```

### Run 7: Report of Vivace-loss — Data Link

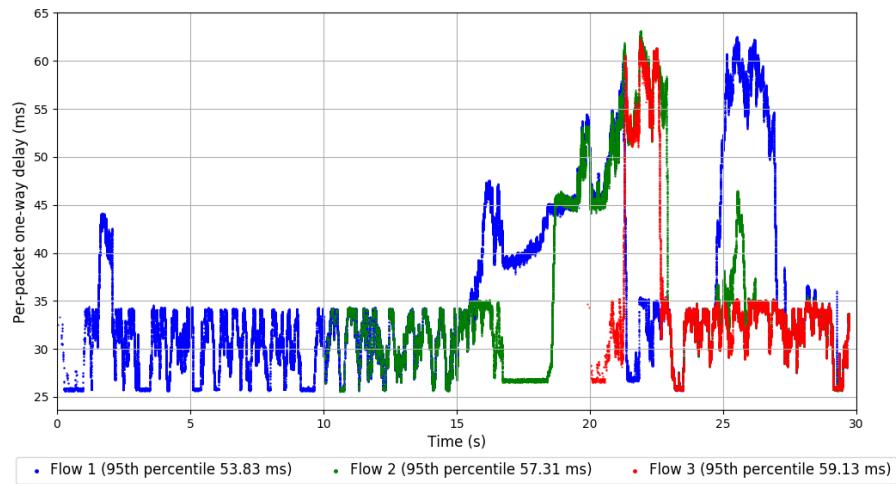
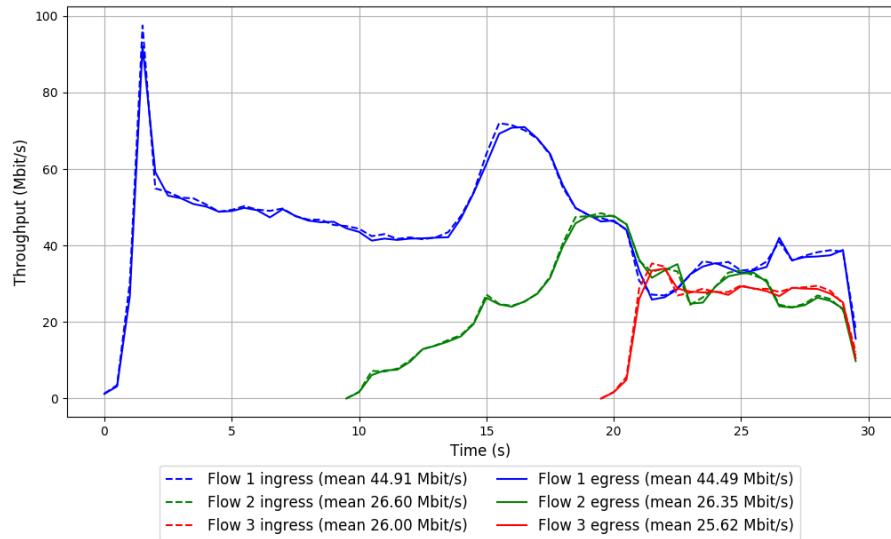


Run 8: Statistics of Vivace-loss

```
Start at: 2018-01-17 02:03:21
End at: 2018-01-17 02:03:51
Local clock offset: -0.265 ms
Remote clock offset: -3.778 ms

# Below is generated by plot.py at 2018-01-17 08:04:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 70.53 Mbit/s
95th percentile per-packet one-way delay: 55.794 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 44.49 Mbit/s
95th percentile per-packet one-way delay: 53.831 ms
Loss rate: 1.15%
-- Flow 2:
Average throughput: 26.35 Mbit/s
95th percentile per-packet one-way delay: 57.315 ms
Loss rate: 1.22%
-- Flow 3:
Average throughput: 25.62 Mbit/s
95th percentile per-packet one-way delay: 59.129 ms
Loss rate: 2.07%
```

Run 8: Report of Vivace-loss — Data Link

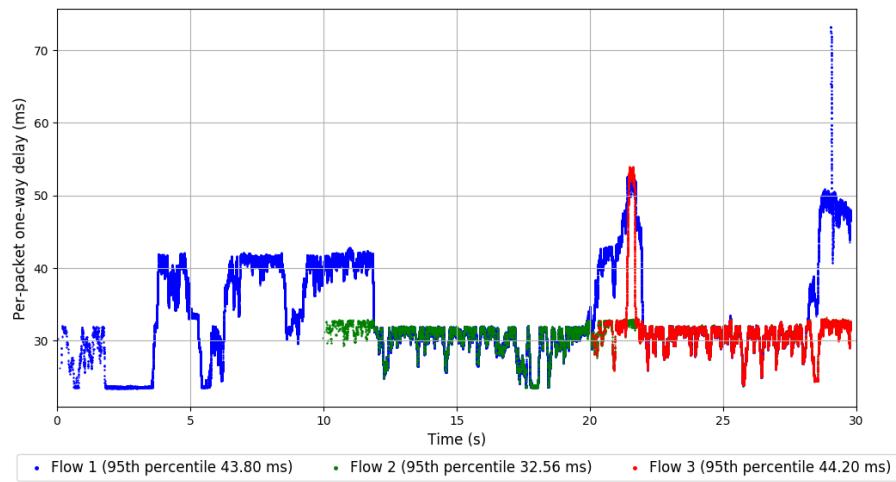
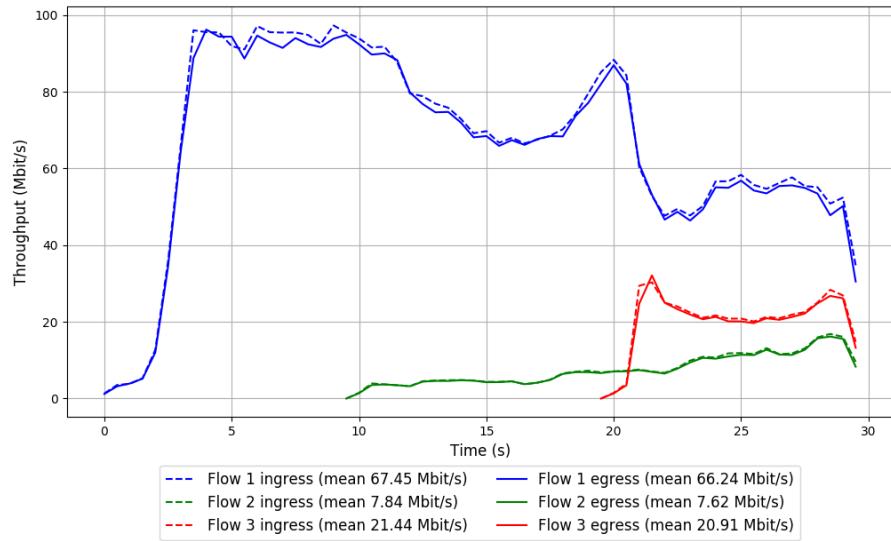


Run 9: Statistics of Vivace-loss

```
Start at: 2018-01-17 02:30:32
End at: 2018-01-17 02:31:02
Local clock offset: -0.344 ms
Remote clock offset: -1.535 ms

# Below is generated by plot.py at 2018-01-17 08:04:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.20 Mbit/s
95th percentile per-packet one-way delay: 42.868 ms
Loss rate: 2.17%
-- Flow 1:
Average throughput: 66.24 Mbit/s
95th percentile per-packet one-way delay: 43.800 ms
Loss rate: 2.00%
-- Flow 2:
Average throughput: 7.62 Mbit/s
95th percentile per-packet one-way delay: 32.561 ms
Loss rate: 3.04%
-- Flow 3:
Average throughput: 20.91 Mbit/s
95th percentile per-packet one-way delay: 44.204 ms
Loss rate: 3.11%
```

Run 9: Report of Vivace-loss — Data Link

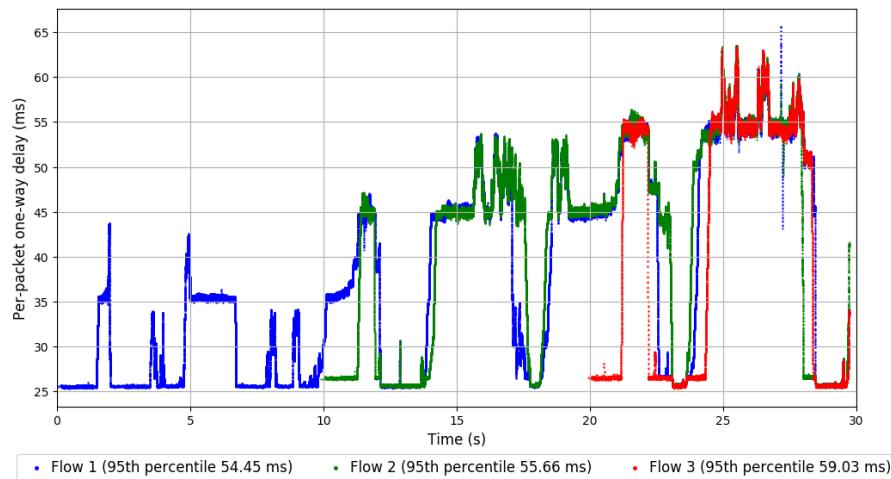
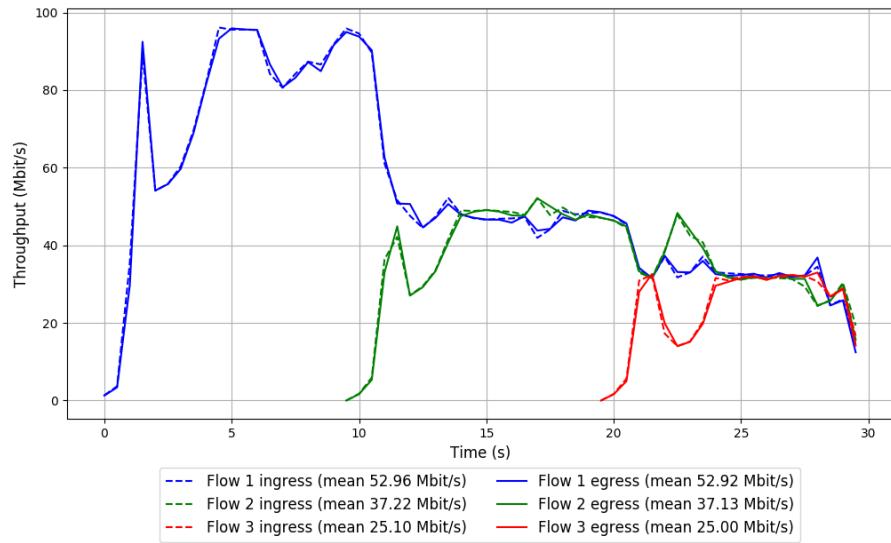


Run 10: Statistics of Vivace-loss

```
Start at: 2018-01-17 02:57:01
End at: 2018-01-17 02:57:31
Local clock offset: -0.634 ms
Remote clock offset: -3.878 ms

# Below is generated by plot.py at 2018-01-17 08:04:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.93 Mbit/s
95th percentile per-packet one-way delay: 55.213 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 52.92 Mbit/s
95th percentile per-packet one-way delay: 54.455 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 37.13 Mbit/s
95th percentile per-packet one-way delay: 55.660 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 25.00 Mbit/s
95th percentile per-packet one-way delay: 59.030 ms
Loss rate: 0.93%
```

Run 10: Report of Vivace-loss — Data Link

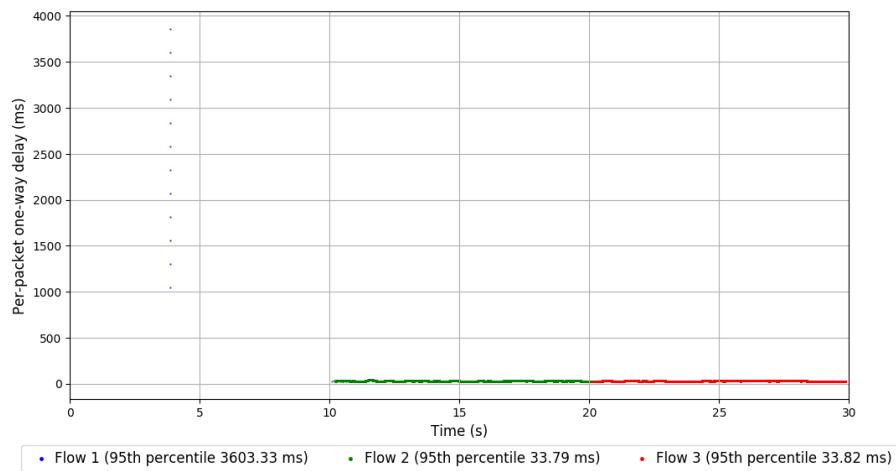
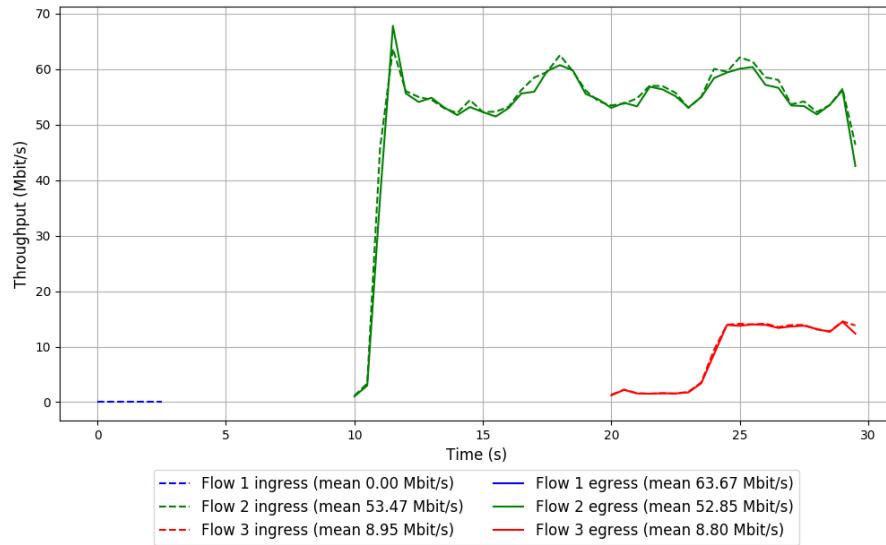


Run 1: Statistics of Vivace-LTE

```
Start at: 2018-01-16 23:05:44
End at: 2018-01-16 23:06:14
Local clock offset: 0.774 ms
Remote clock offset: -5.601 ms

# Below is generated by plot.py at 2018-01-17 08:04:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 43.50 Mbit/s
95th percentile per-packet one-way delay: 33.794 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 63.67 Mbit/s
95th percentile per-packet one-way delay: 3603.327 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 52.85 Mbit/s
95th percentile per-packet one-way delay: 33.791 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 8.80 Mbit/s
95th percentile per-packet one-way delay: 33.820 ms
Loss rate: 2.26%
```

## Run 1: Report of Vivace-LTE — Data Link

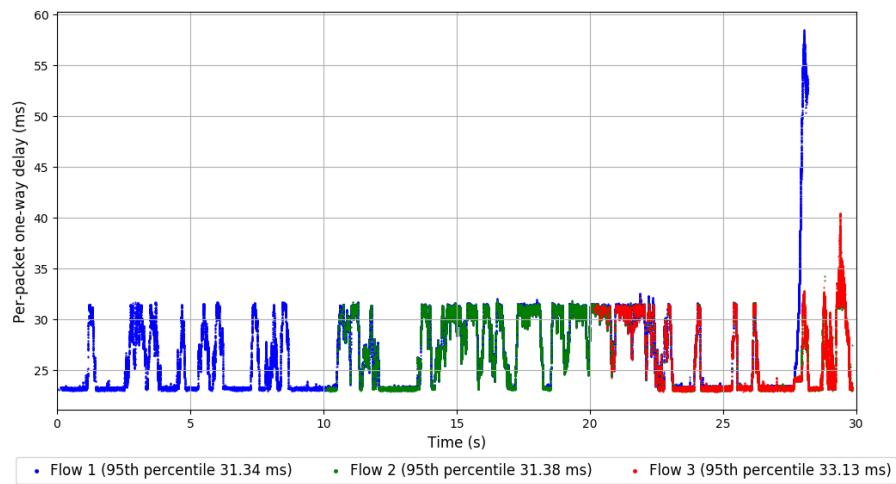
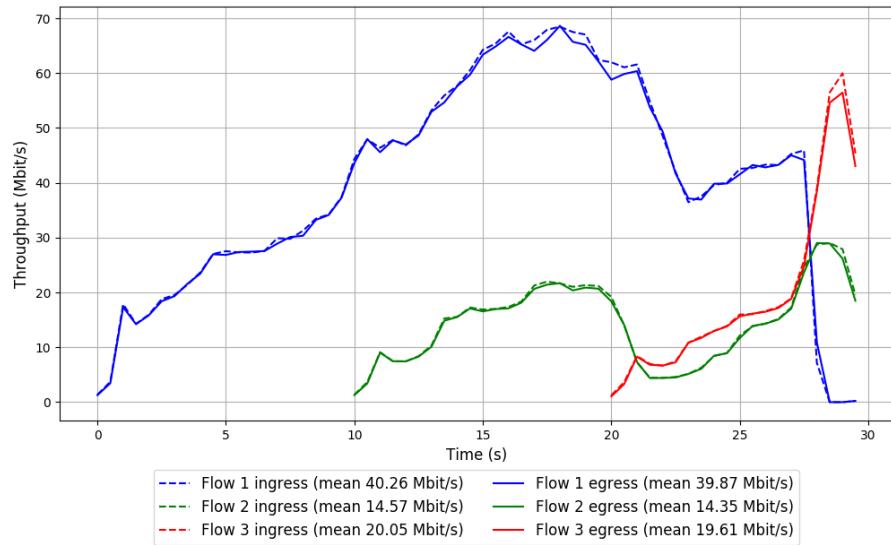


Run 2: Statistics of Vivace-LTE

```
Start at: 2018-01-16 23:32:09
End at: 2018-01-16 23:32:39
Local clock offset: 0.914 ms
Remote clock offset: -2.065 ms

# Below is generated by plot.py at 2018-01-17 08:04:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 55.73 Mbit/s
95th percentile per-packet one-way delay: 31.371 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 39.87 Mbit/s
95th percentile per-packet one-way delay: 31.340 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 14.35 Mbit/s
95th percentile per-packet one-way delay: 31.375 ms
Loss rate: 1.77%
-- Flow 3:
Average throughput: 19.61 Mbit/s
95th percentile per-packet one-way delay: 33.126 ms
Loss rate: 2.80%
```

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

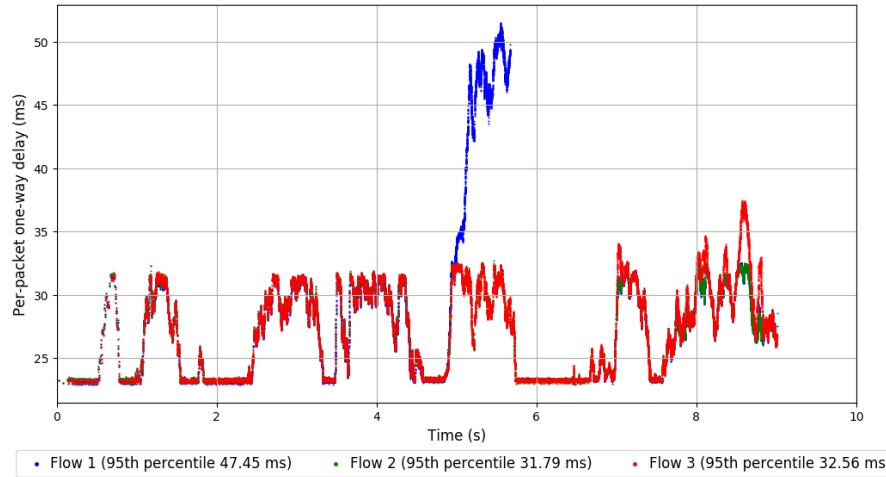
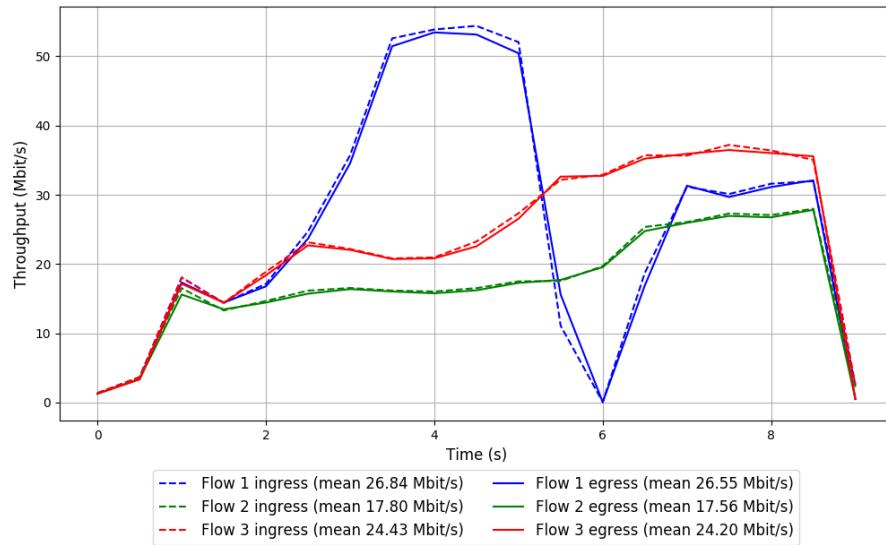
Start at: 2018-01-16 23:59:14

End at: 2018-01-16 23:59:44

Local clock offset: 0.809 ms

Remote clock offset: -1.272 ms

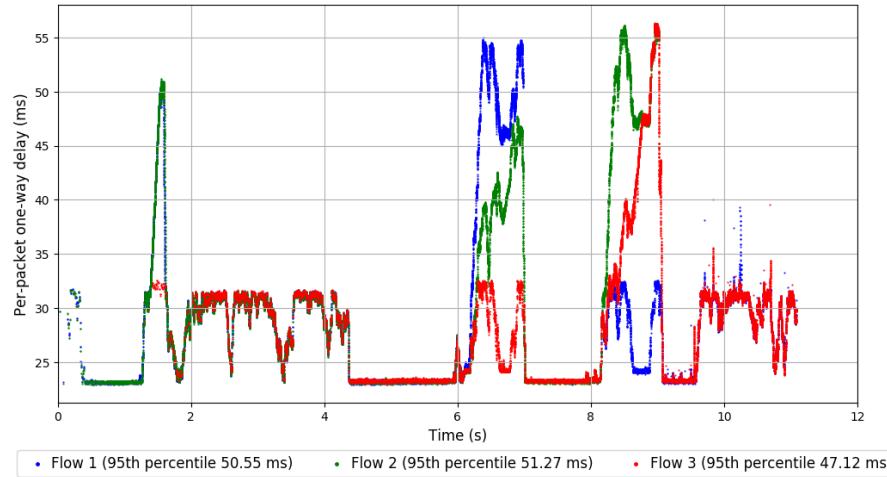
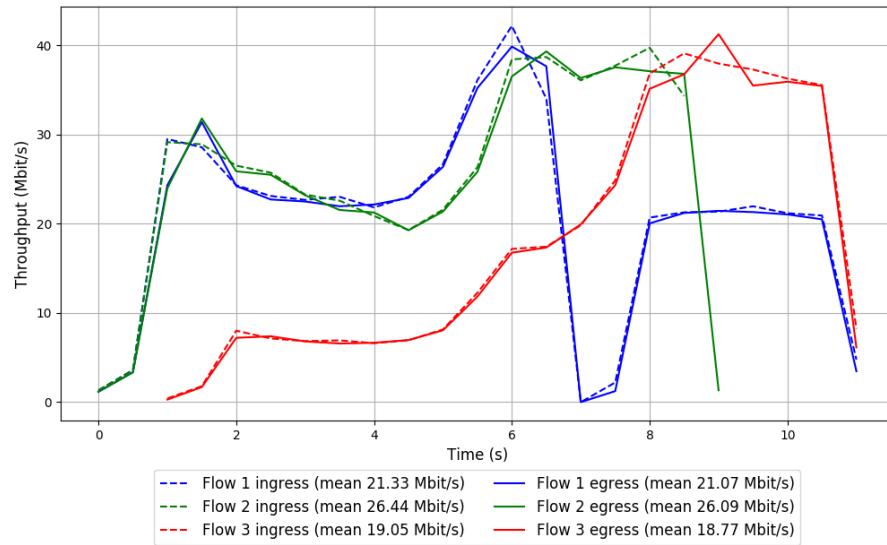
Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-01-17 00:26:37  
End at: 2018-01-17 00:27:07  
Local clock offset: 0.41 ms  
Remote clock offset: -0.978 ms

Run 4: Report of Vivace-LTE — Data Link

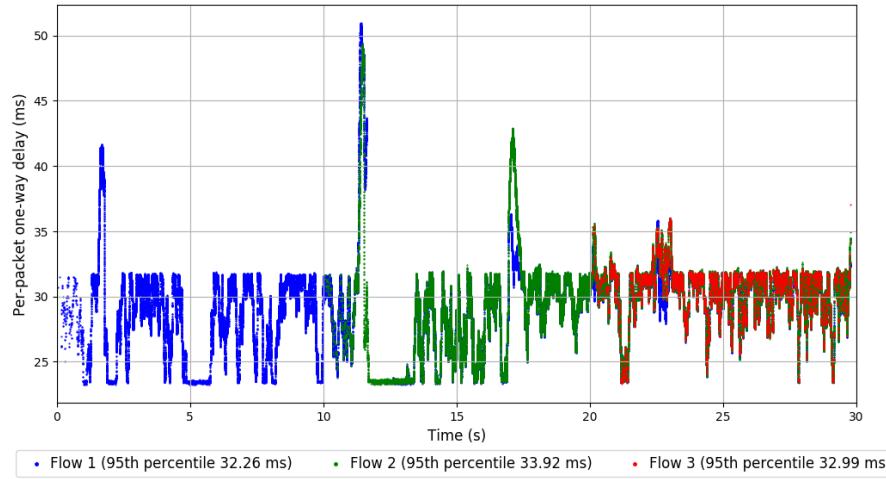
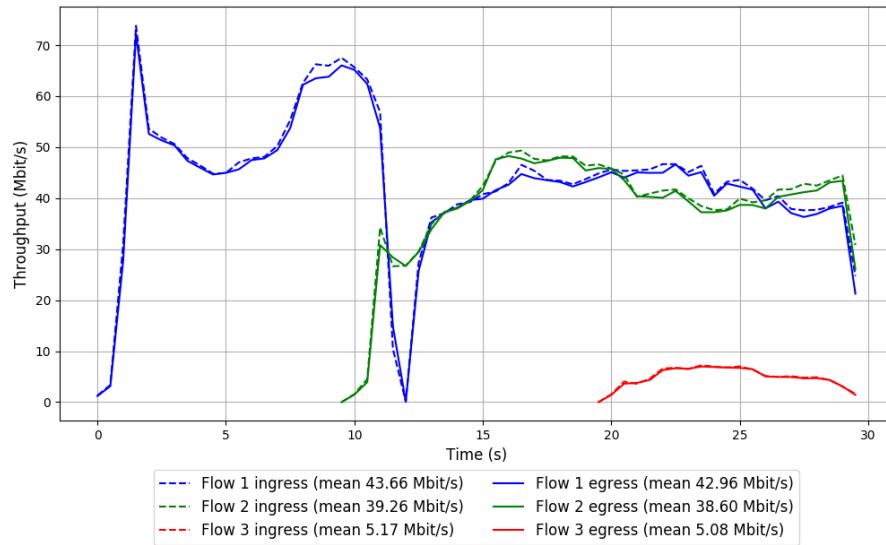


Run 5: Statistics of Vivace-LTE

```
Start at: 2018-01-17 00:54:20
End at: 2018-01-17 00:54:50
Local clock offset: 0.268 ms
Remote clock offset: -1.386 ms

# Below is generated by plot.py at 2018-01-17 08:04:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 70.35 Mbit/s
95th percentile per-packet one-way delay: 32.748 ms
Loss rate: 1.87%
-- Flow 1:
Average throughput: 42.96 Mbit/s
95th percentile per-packet one-way delay: 32.262 ms
Loss rate: 1.81%
-- Flow 2:
Average throughput: 38.60 Mbit/s
95th percentile per-packet one-way delay: 33.924 ms
Loss rate: 1.95%
-- Flow 3:
Average throughput: 5.08 Mbit/s
95th percentile per-packet one-way delay: 32.986 ms
Loss rate: 2.25%
```

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

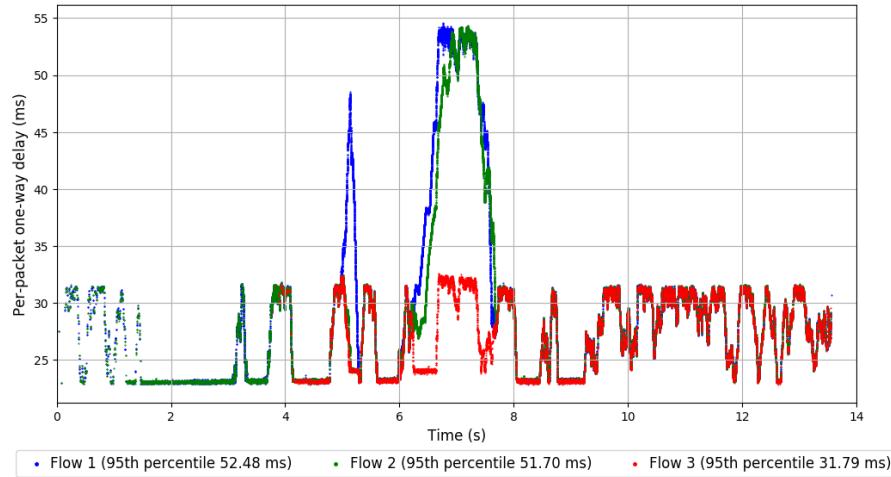
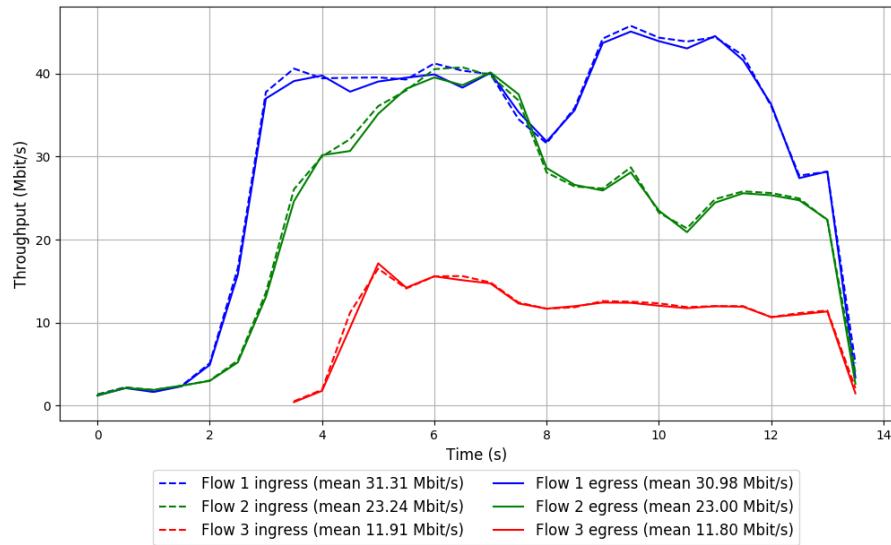
Start at: 2018-01-17 01:21:45

End at: 2018-01-17 01:22:15

Local clock offset: -0.011 ms

Remote clock offset: -1.039 ms

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

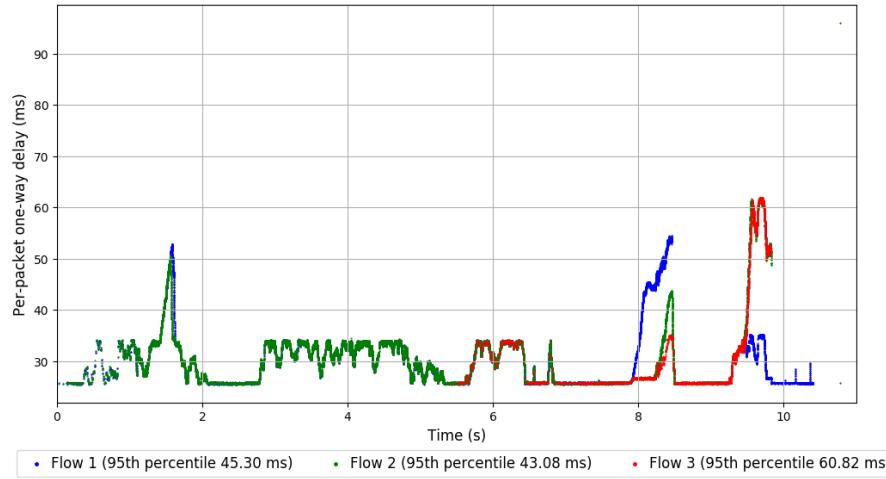
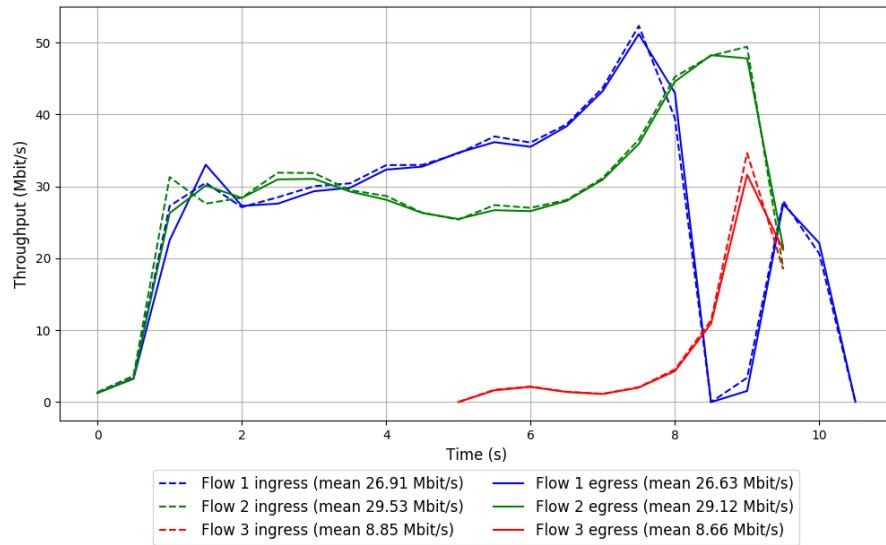
Start at: 2018-01-17 01:49:13

End at: 2018-01-17 01:49:43

Local clock offset: -0.188 ms

Remote clock offset: -3.549 ms

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

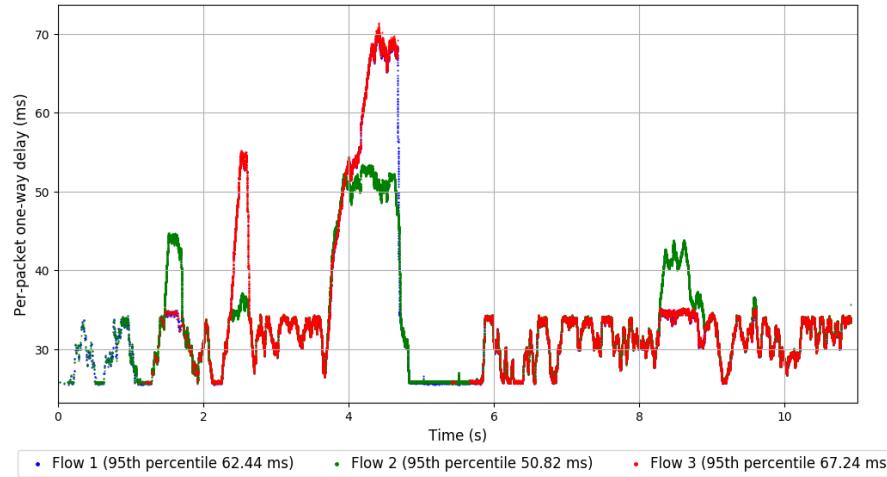
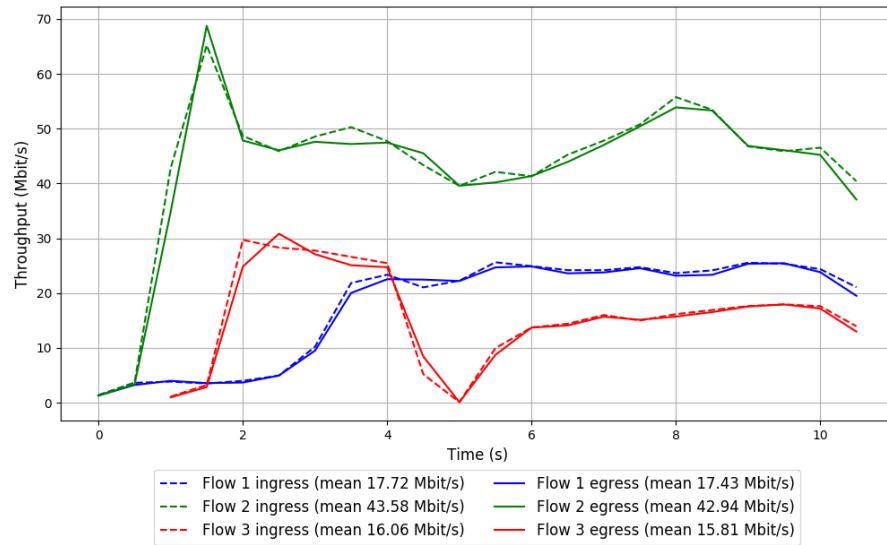
Start at: 2018-01-17 02:16:21

End at: 2018-01-17 02:16:51

Local clock offset: -0.268 ms

Remote clock offset: -3.711 ms

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

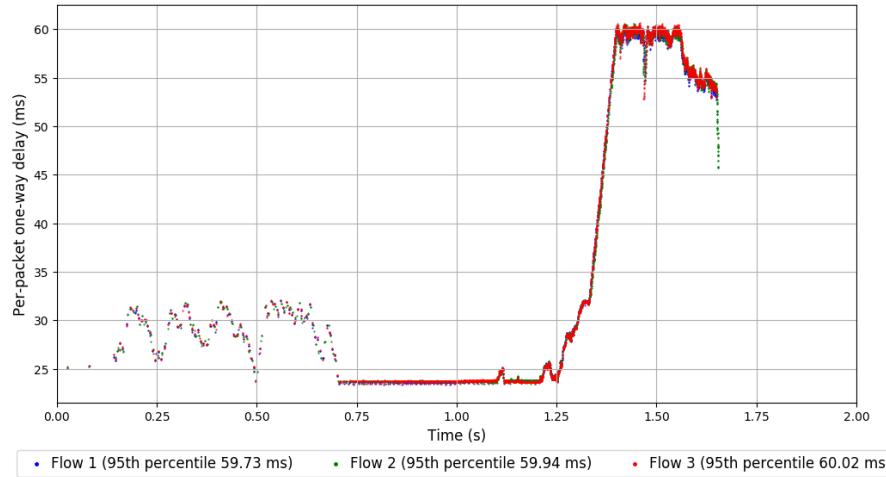
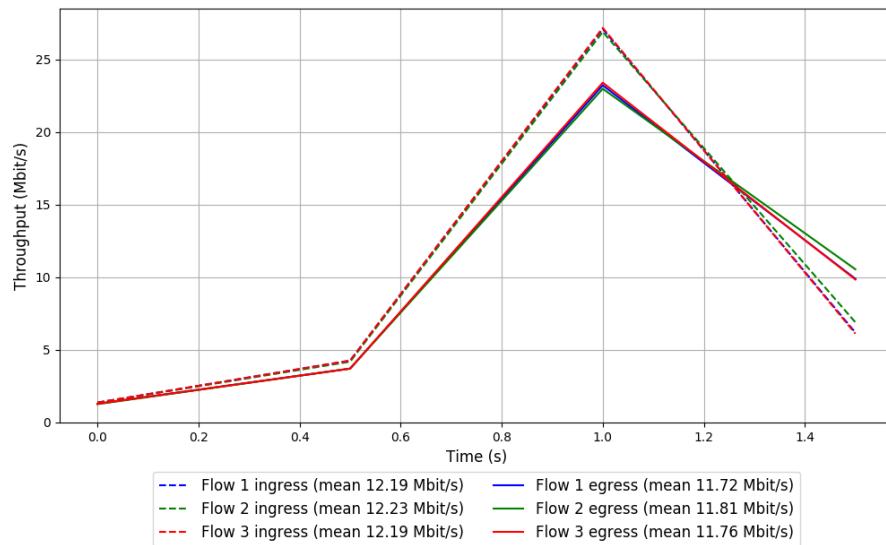
Start at: 2018-01-17 02:43:18

End at: 2018-01-17 02:43:48

Local clock offset: -0.476 ms

Remote clock offset: -1.659 ms

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-01-17 03:08:25

End at: 2018-01-17 03:08:55

Local clock offset: -0.697 ms

Remote clock offset: -1.596 ms

Run 10: Report of Vivace-LTE — Data Link

