

## Pantheon Report

Generated at 2018-03-27 22:31:40 (UTC).

Data path: China Ethernet (*remote*) → AWS Korea 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).

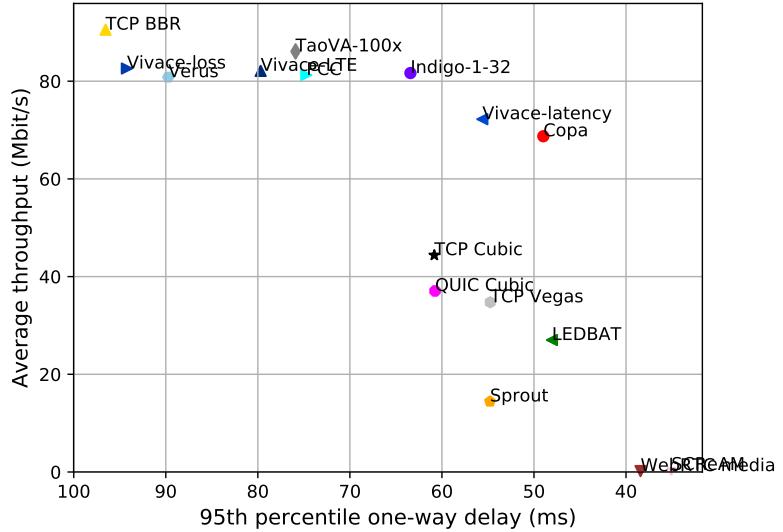
Tested BBR with qdisc of Fair Queueing (**fq**), and other schemes with the default Linux qdisc (**pfifo\_fast**).

NTP offsets were measured against `ntp.nict.jp` and have been applied to correct the timestamps in logs.

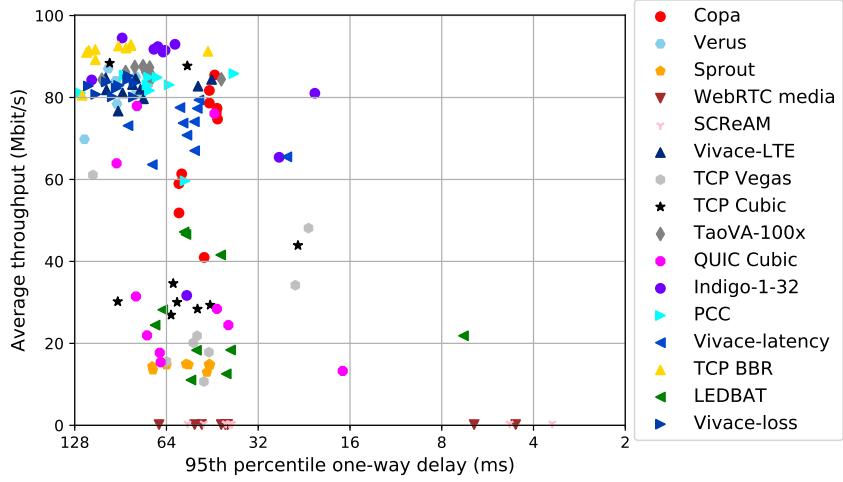
**Git summary:**

```
branch: master @ 503f51fe03f703a4c0a826a0792a4fead3e7d1b0
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5cec90f281d1c69ae1a5c6
third_party/genericCC @ 9249eea3238475c4d8cca1443d28df70bff6c4a2
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aeee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179aab4a906ce6bb7cf3cf
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 @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ f271183af822eee5d0031620f4bebf38aedc5581
```

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



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



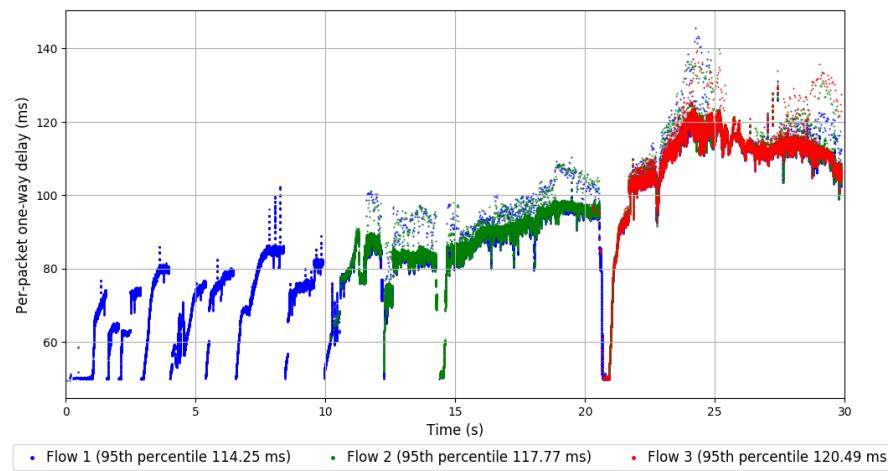
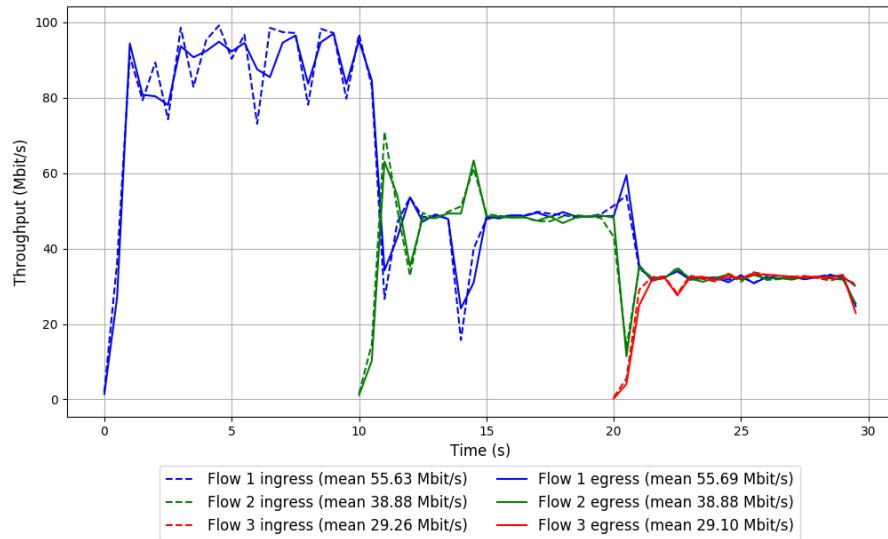
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	55.26	38.57	29.66	94.93	96.96	98.47	0.38	0.77	2.02
TCP Cubic	9	20.61	24.36	23.12	60.23	58.92	59.15	0.31	0.42	1.05
LEDBAT	10	16.61	12.01	7.53	47.87	48.01	49.21	0.57	0.82	2.14
PCC	10	60.75	22.52	17.05	74.10	75.33	73.20	0.42	0.70	1.34
QUIC Cubic	10	15.41	23.03	19.56	48.33	60.27	60.01	0.18	1.25	1.50
SCReAM	10	0.20	0.21	0.21	34.96	34.92	34.88	0.32	0.53	1.13
WebRTC media	10	0.07	0.07	0.06	38.38	39.07	38.33	0.04	0.04	0.16
Sprout	10	7.44	7.19	6.84	54.46	55.18	54.87	0.47	0.66	1.46
TaoVA-100x	10	51.84	37.73	29.61	74.22	76.31	78.54	1.76	2.32	3.63
TCP Vegas	9	14.69	16.90	26.85	53.24	52.18	55.10	0.32	0.46	0.99
Verus	9	49.73	34.17	25.67	86.83	90.51	92.69	0.43	0.86	1.69
Copa	10	43.20	29.76	17.49	48.35	49.67	49.67	0.59	1.09	6.63
FillP	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Indigo-1-32	10	57.92	27.09	17.94	62.36	65.15	62.34	0.35	0.59	1.41
Vivace-latency	10	56.93	19.51	7.13	55.31	55.60	55.70	0.41	0.84	1.74
Vivace-loss	10	52.23	32.91	26.34	93.28	94.55	95.24	1.04	1.95	7.00
Vivace-LTE	10	54.82	30.28	22.10	78.49	80.26	80.98	0.43	1.00	2.34

Run 1: Statistics of TCP BBR

```
Start at: 2018-03-27 14:32:14
End at: 2018-03-27 14:32:44
Local clock offset: -1.251 ms
Remote clock offset: 5.248 ms

# Below is generated by plot.py at 2018-03-27 22:13:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.99 Mbit/s
95th percentile per-packet one-way delay: 117.048 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 55.69 Mbit/s
95th percentile per-packet one-way delay: 114.254 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 38.88 Mbit/s
95th percentile per-packet one-way delay: 117.773 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 29.10 Mbit/s
95th percentile per-packet one-way delay: 120.490 ms
Loss rate: 2.42%
```

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

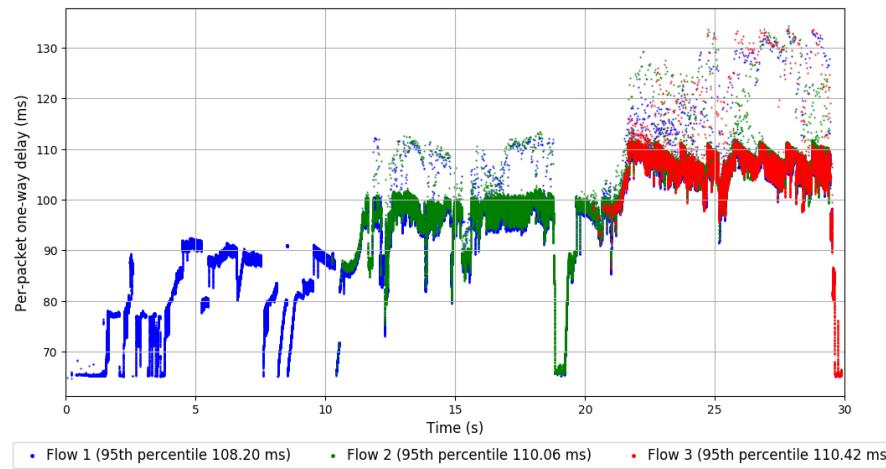
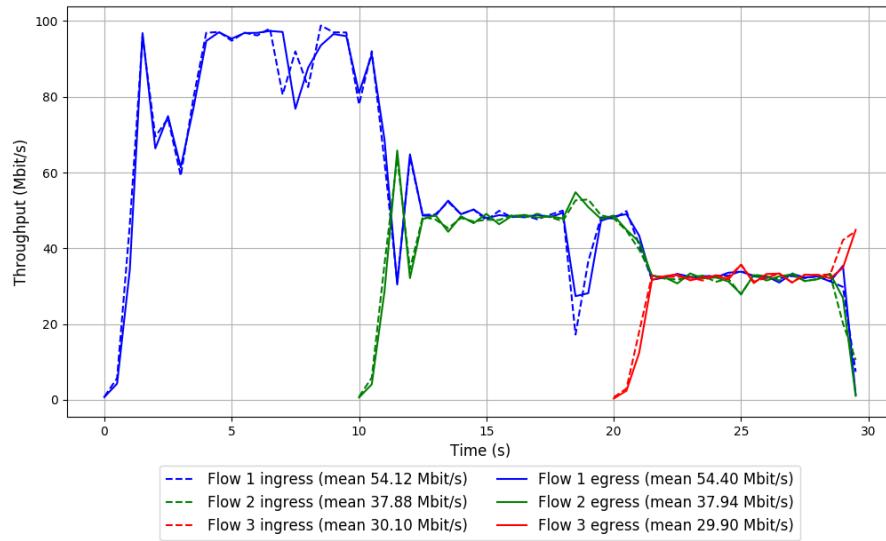


Run 2: Statistics of TCP BBR

```
Start at: 2018-03-27 14:55:39
End at: 2018-03-27 14:56:09
Local clock offset: -1.362 ms
Remote clock offset: -37.665 ms

# Below is generated by plot.py at 2018-03-27 22:13:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.22 Mbit/s
95th percentile per-packet one-way delay: 109.494 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 54.40 Mbit/s
95th percentile per-packet one-way delay: 108.199 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 37.94 Mbit/s
95th percentile per-packet one-way delay: 110.061 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 29.90 Mbit/s
95th percentile per-packet one-way delay: 110.417 ms
Loss rate: 2.47%
```

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

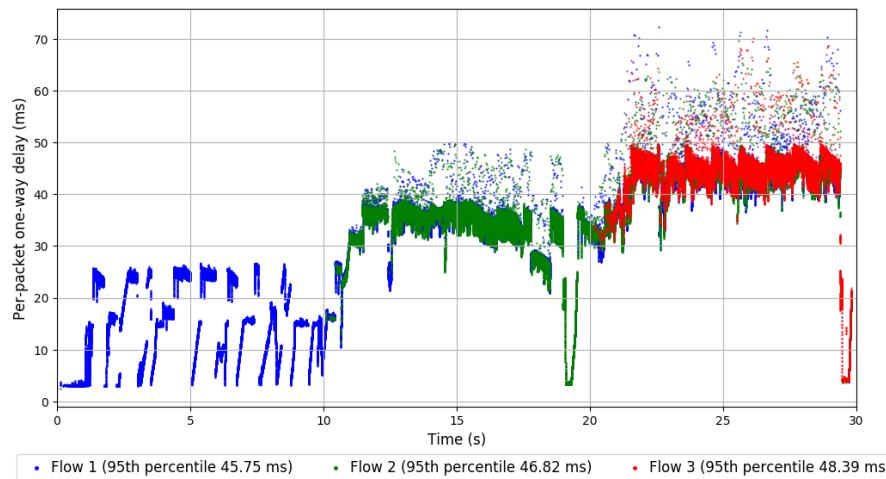
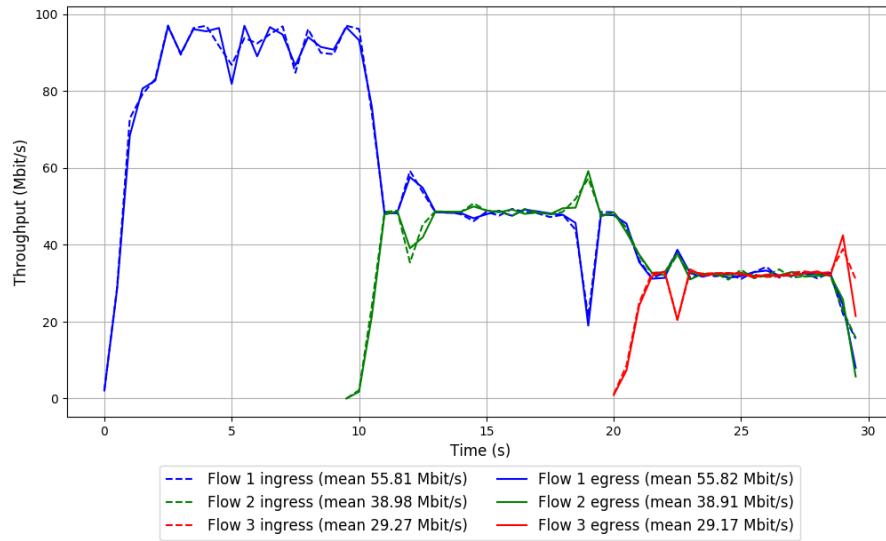


Run 3: Statistics of TCP BBR

```
Start at: 2018-03-27 15:21:19
End at: 2018-03-27 15:21:49
Local clock offset: -0.24 ms
Remote clock offset: 59.726 ms

# Below is generated by plot.py at 2018-03-27 22:13:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.27 Mbit/s
95th percentile per-packet one-way delay: 46.775 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 55.82 Mbit/s
95th percentile per-packet one-way delay: 45.753 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 38.91 Mbit/s
95th percentile per-packet one-way delay: 46.816 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 29.17 Mbit/s
95th percentile per-packet one-way delay: 48.389 ms
Loss rate: 1.80%
```

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

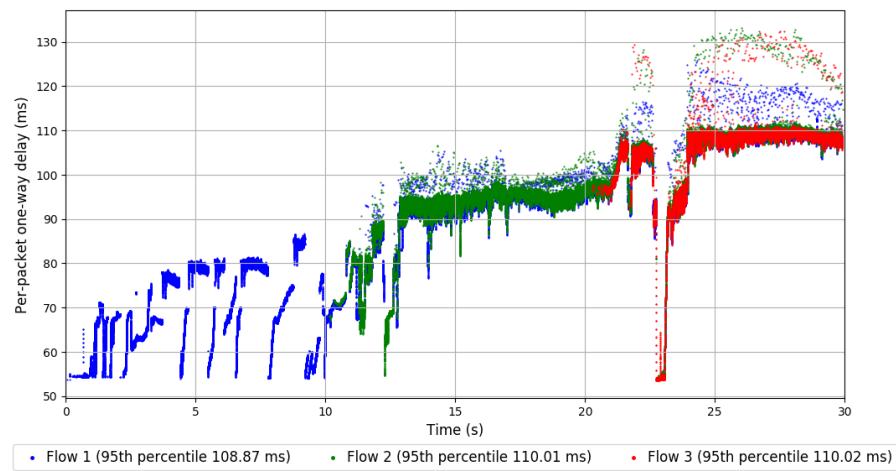
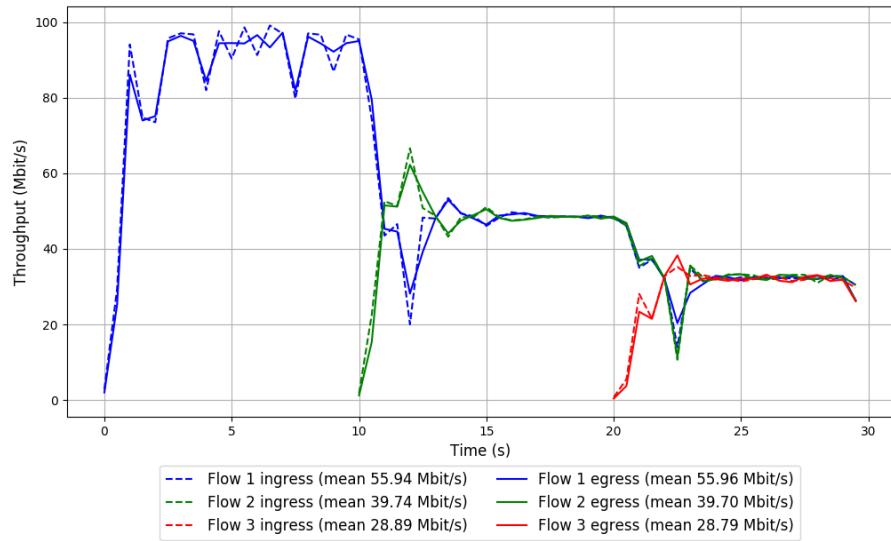


Run 4: Statistics of TCP BBR

```
Start at: 2018-03-27 15:45:37
End at: 2018-03-27 15:46:07
Local clock offset: 5.756 ms
Remote clock offset: 19.9 ms

# Below is generated by plot.py at 2018-03-27 22:13:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.73 Mbit/s
95th percentile per-packet one-way delay: 109.597 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 55.96 Mbit/s
95th percentile per-packet one-way delay: 108.867 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 39.70 Mbit/s
95th percentile per-packet one-way delay: 110.014 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 28.79 Mbit/s
95th percentile per-packet one-way delay: 110.015 ms
Loss rate: 1.94%
```

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

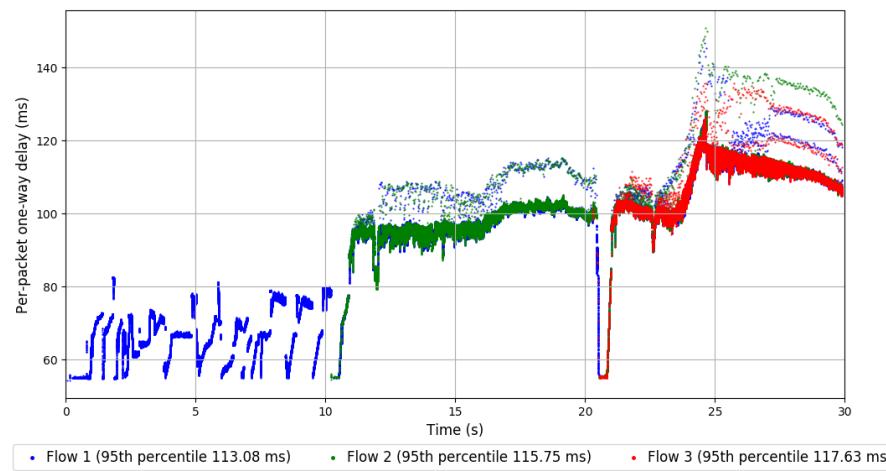
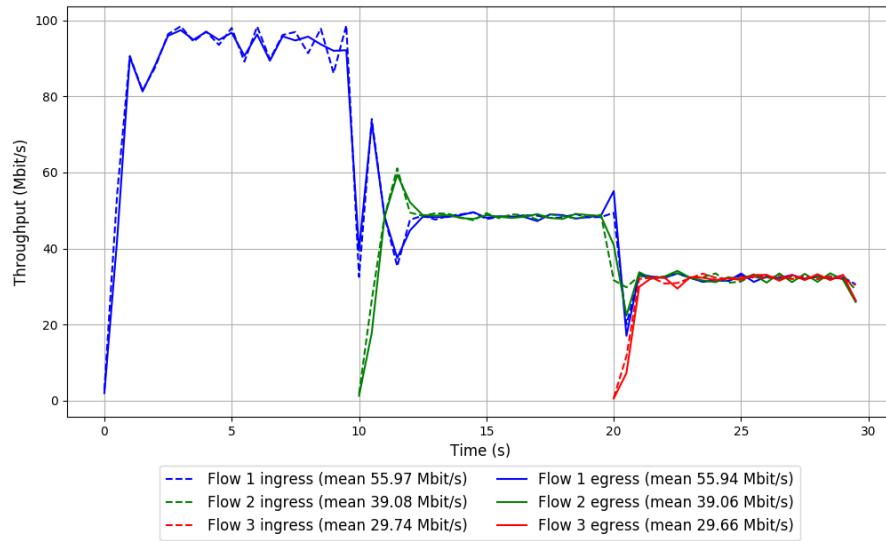


Run 5: Statistics of TCP BBR

```
Start at: 2018-03-27 16:09:38
End at: 2018-03-27 16:10:08
Local clock offset: 10.105 ms
Remote clock offset: 9.967 ms

# Below is generated by plot.py at 2018-03-27 22:13:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.52 Mbit/s
95th percentile per-packet one-way delay: 115.177 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 55.94 Mbit/s
95th percentile per-packet one-way delay: 113.077 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 39.06 Mbit/s
95th percentile per-packet one-way delay: 115.749 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 29.66 Mbit/s
95th percentile per-packet one-way delay: 117.633 ms
Loss rate: 1.91%
```

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

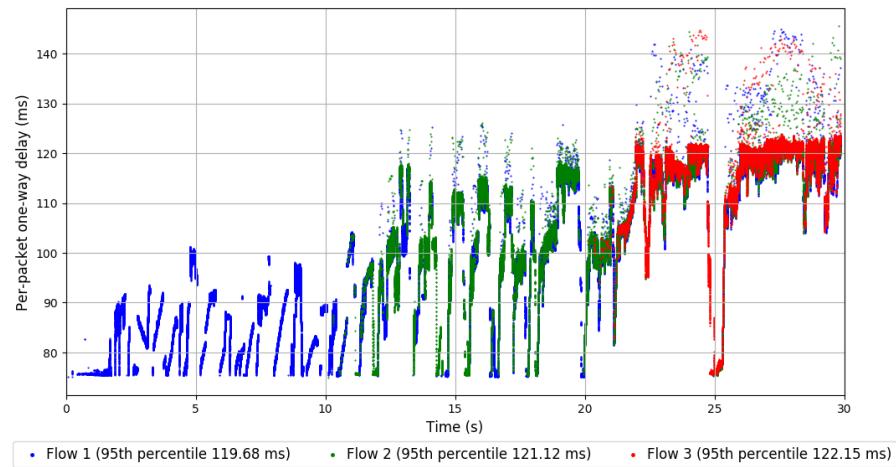
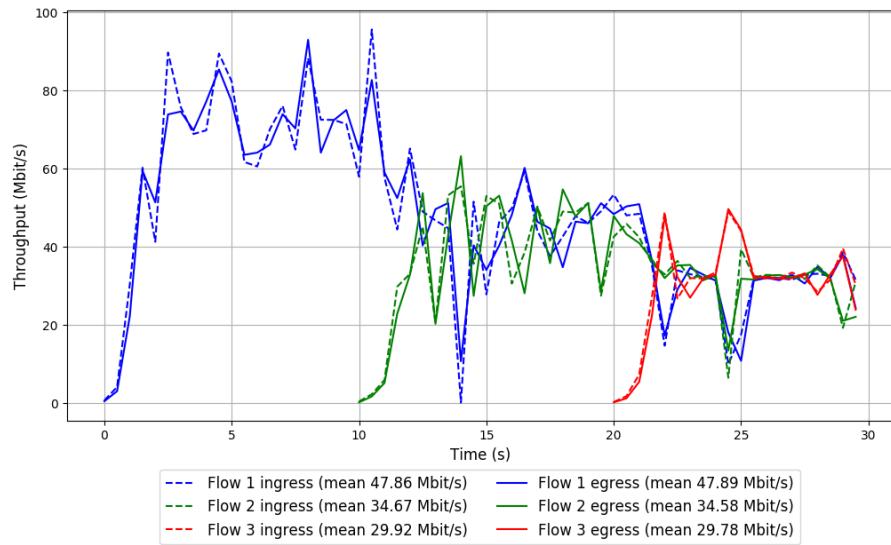


Run 6: Statistics of TCP BBR

```
Start at: 2018-03-27 16:35:40
End at: 2018-03-27 16:36:10
Local clock offset: 9.759 ms
Remote clock offset: -54.281 ms

# Below is generated by plot.py at 2018-03-27 22:13:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.52 Mbit/s
95th percentile per-packet one-way delay: 120.982 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 47.89 Mbit/s
95th percentile per-packet one-way delay: 119.683 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 34.58 Mbit/s
95th percentile per-packet one-way delay: 121.118 ms
Loss rate: 1.21%
-- Flow 3:
Average throughput: 29.78 Mbit/s
95th percentile per-packet one-way delay: 122.149 ms
Loss rate: 2.70%
```

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

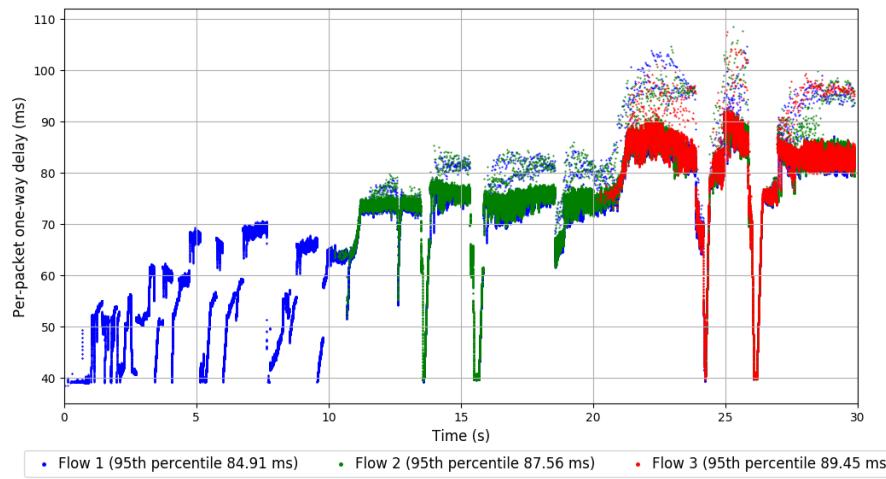
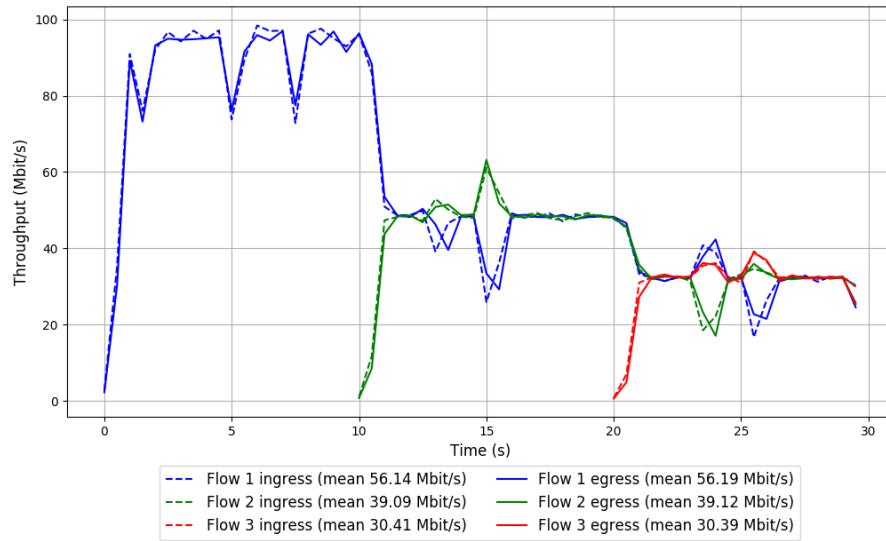


Run 7: Statistics of TCP BBR

```
Start at: 2018-03-27 16:59:09
End at: 2018-03-27 16:59:39
Local clock offset: -0.787 ms
Remote clock offset: -19.295 ms

# Below is generated by plot.py at 2018-03-27 22:13:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.06 Mbit/s
95th percentile per-packet one-way delay: 86.886 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 56.19 Mbit/s
95th percentile per-packet one-way delay: 84.908 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 39.12 Mbit/s
95th percentile per-packet one-way delay: 87.555 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 30.39 Mbit/s
95th percentile per-packet one-way delay: 89.453 ms
Loss rate: 1.73%
```

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

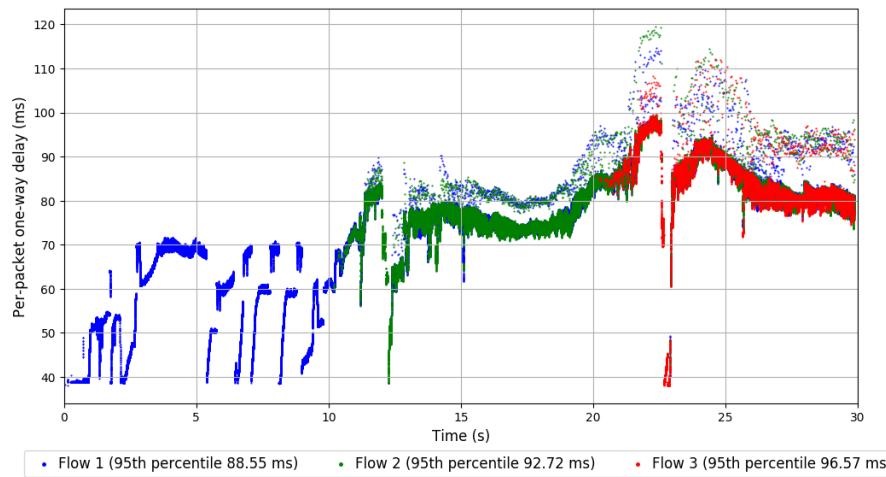
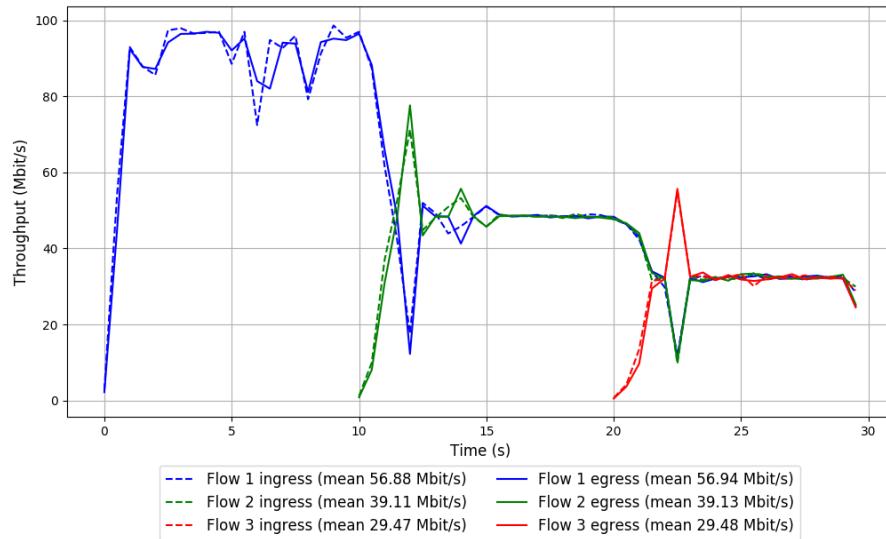


Run 8: Statistics of TCP BBR

```
Start at: 2018-03-27 17:23:03
End at: 2018-03-27 17:23:33
Local clock offset: 0.942 ms
Remote clock offset: -19.499 ms

# Below is generated by plot.py at 2018-03-27 22:13:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.56 Mbit/s
95th percentile per-packet one-way delay: 91.942 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 56.94 Mbit/s
95th percentile per-packet one-way delay: 88.550 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 39.13 Mbit/s
95th percentile per-packet one-way delay: 92.717 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 29.48 Mbit/s
95th percentile per-packet one-way delay: 96.569 ms
Loss rate: 1.77%
```

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

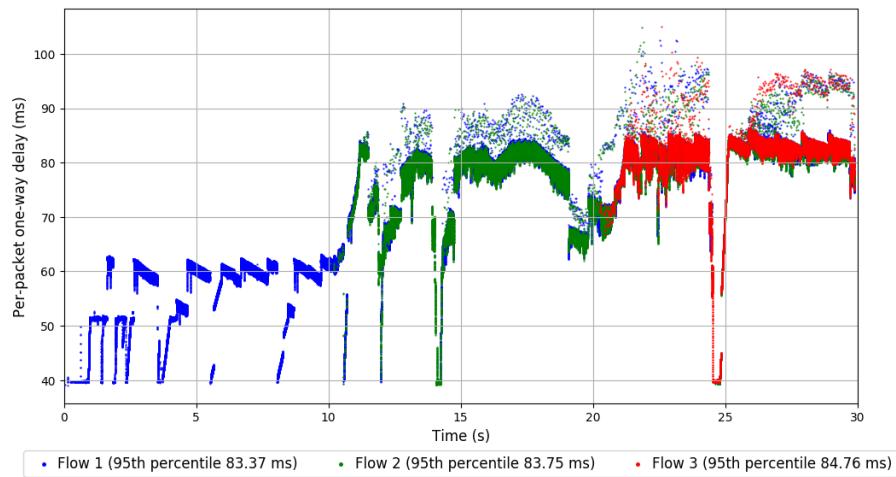
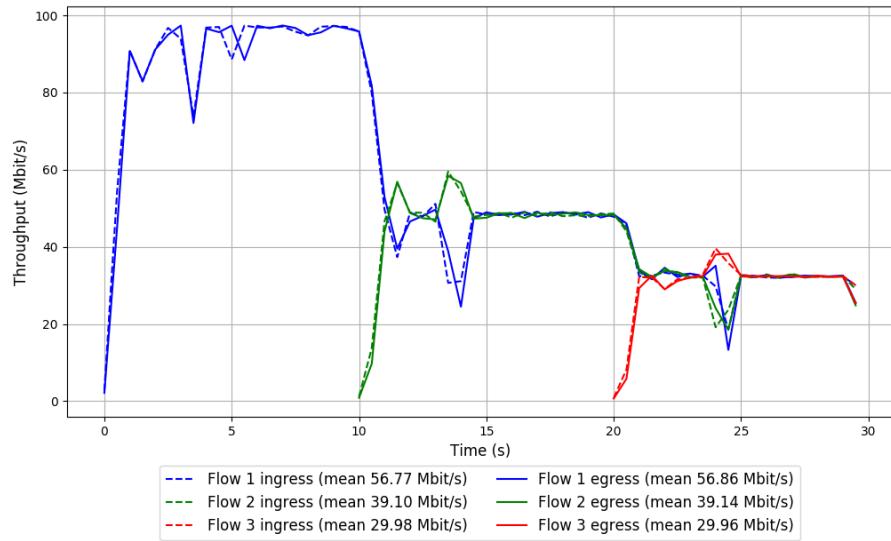


Run 9: Statistics of TCP BBR

```
Start at: 2018-03-27 17:46:42
End at: 2018-03-27 17:47:12
Local clock offset: 8.551 ms
Remote clock offset: -11.017 ms

# Below is generated by plot.py at 2018-03-27 22:15:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.62 Mbit/s
95th percentile per-packet one-way delay: 83.819 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 56.86 Mbit/s
95th percentile per-packet one-way delay: 83.372 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 39.14 Mbit/s
95th percentile per-packet one-way delay: 83.751 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 29.96 Mbit/s
95th percentile per-packet one-way delay: 84.759 ms
Loss rate: 1.73%
```

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

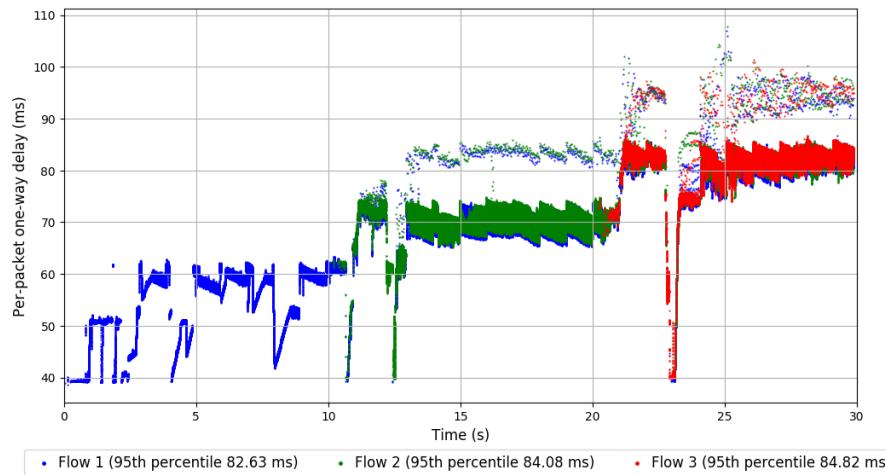
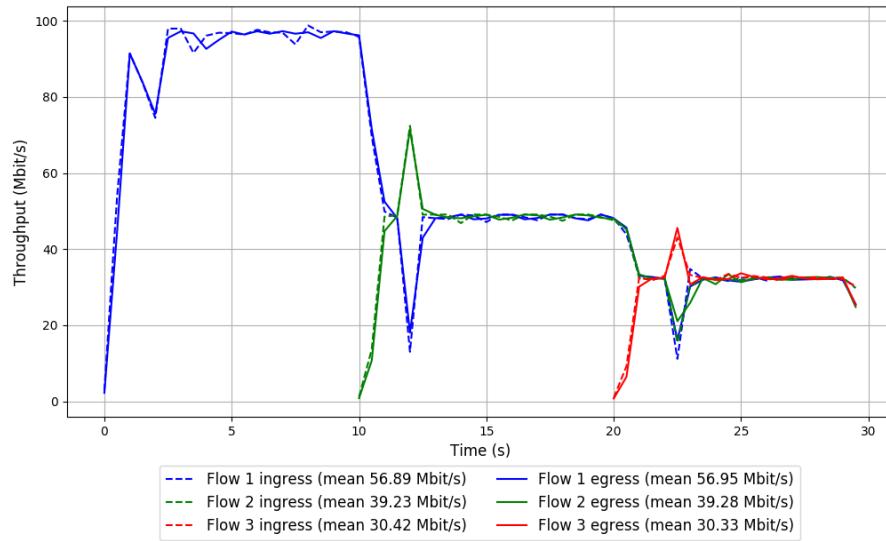


Run 10: Statistics of TCP BBR

```
Start at: 2018-03-27 18:09:29
End at: 2018-03-27 18:09:59
Local clock offset: 3.233 ms
Remote clock offset: -9.494 ms

# Below is generated by plot.py at 2018-03-27 22:15:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.94 Mbit/s
95th percentile per-packet one-way delay: 83.722 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 56.95 Mbit/s
95th percentile per-packet one-way delay: 82.627 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 39.28 Mbit/s
95th percentile per-packet one-way delay: 84.078 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 30.33 Mbit/s
95th percentile per-packet one-way delay: 84.817 ms
Loss rate: 1.73%
```

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

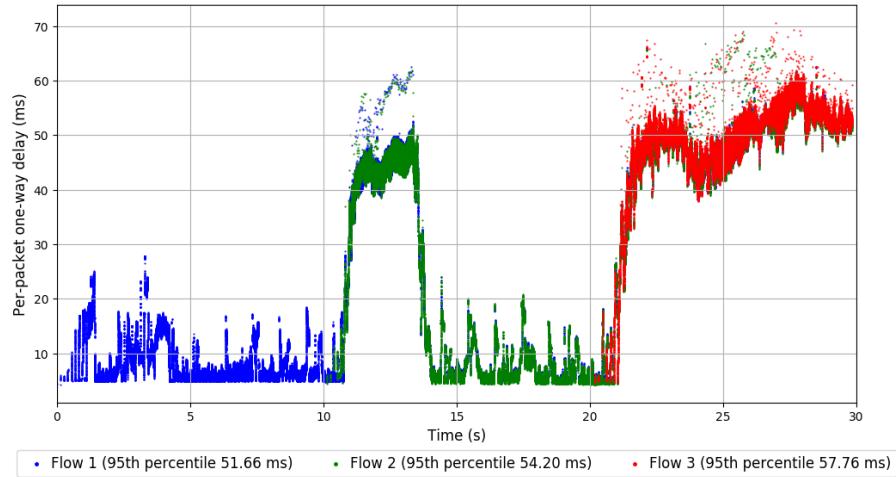
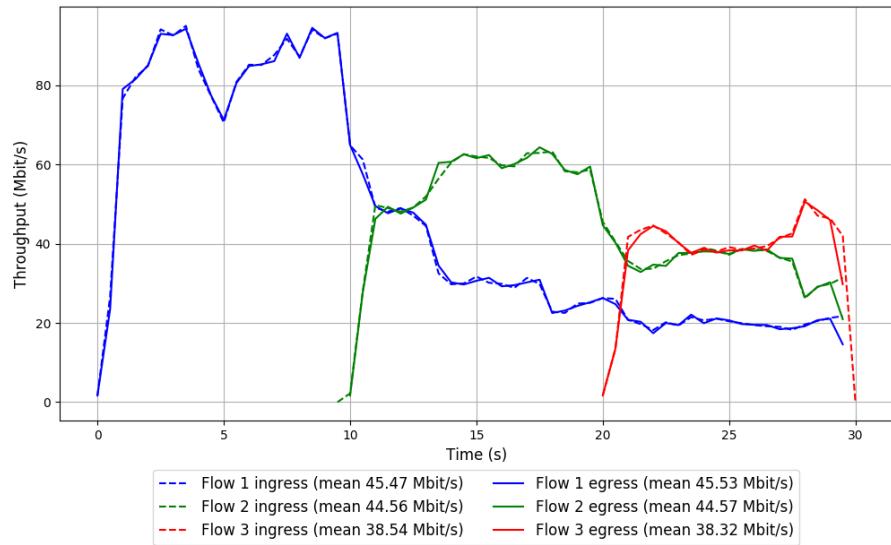


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2018-03-27 14:33:36
End at: 2018-03-27 14:34:06
Local clock offset: -1.028 ms
Remote clock offset: 50.0 ms

# Below is generated by plot.py at 2018-03-27 22:15:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.72 Mbit/s
95th percentile per-packet one-way delay: 54.664 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 45.53 Mbit/s
95th percentile per-packet one-way delay: 51.662 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 44.57 Mbit/s
95th percentile per-packet one-way delay: 54.196 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 38.32 Mbit/s
95th percentile per-packet one-way delay: 57.756 ms
Loss rate: 2.25%
```

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

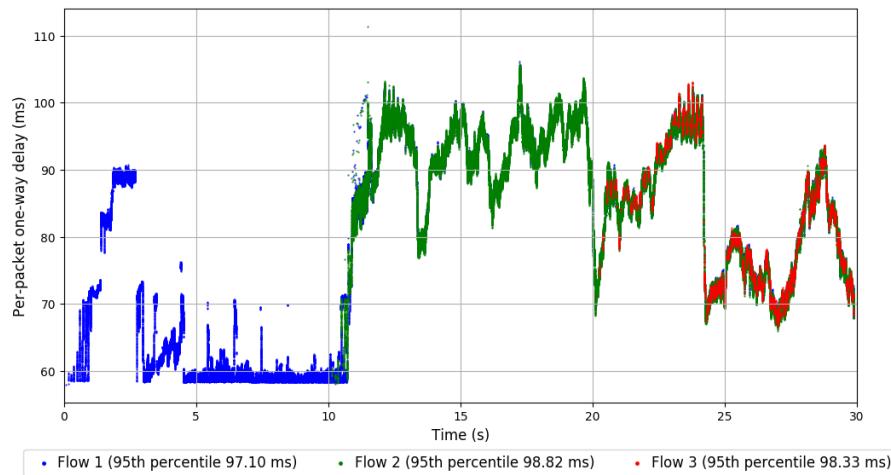
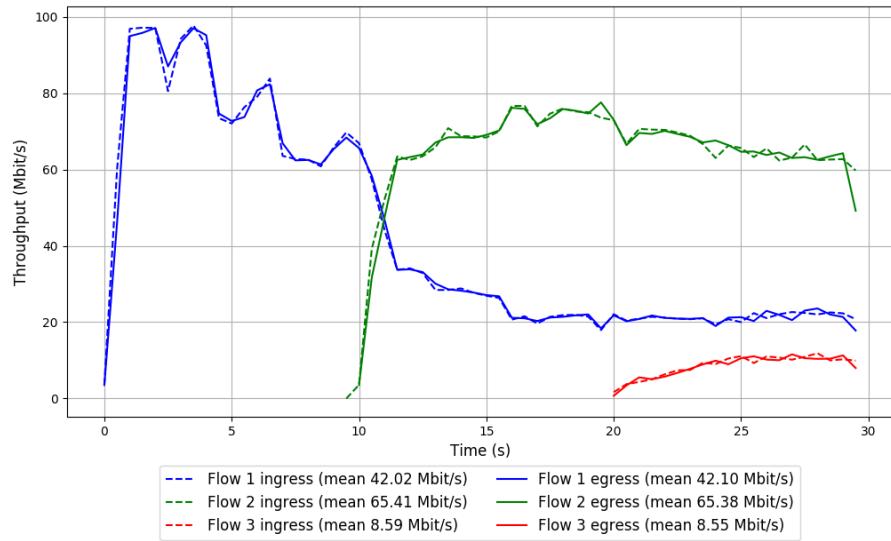


Run 2: Statistics of TCP Cubic

```
Start at: 2018-03-27 14:56:59
End at: 2018-03-27 14:57:29
Local clock offset: -1.571 ms
Remote clock offset: -31.684 ms

# Below is generated by plot.py at 2018-03-27 22:15:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.39 Mbit/s
95th percentile per-packet one-way delay: 98.275 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 42.10 Mbit/s
95th percentile per-packet one-way delay: 97.100 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 65.38 Mbit/s
95th percentile per-packet one-way delay: 98.818 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 8.55 Mbit/s
95th percentile per-packet one-way delay: 98.331 ms
Loss rate: 1.96%
```

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

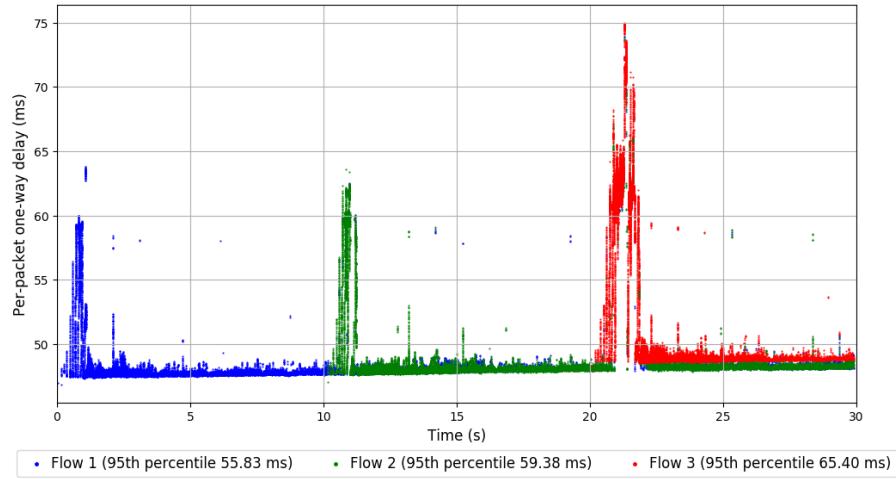
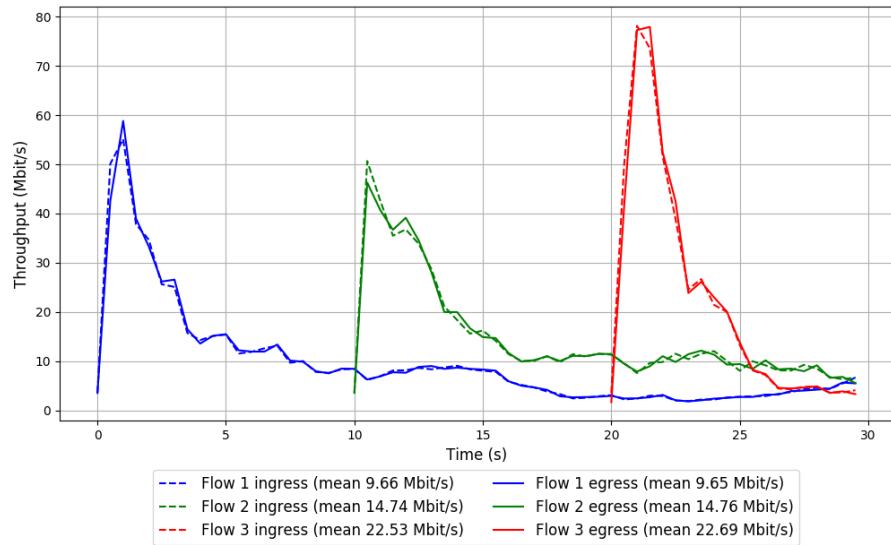


Run 3: Statistics of TCP Cubic

```
Start at: 2018-03-27 15:22:44
End at: 2018-03-27 15:23:14
Local clock offset: -0.452 ms
Remote clock offset: 16.799 ms

# Below is generated by plot.py at 2018-03-27 22:15:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 26.92 Mbit/s
95th percentile per-packet one-way delay: 61.814 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 9.65 Mbit/s
95th percentile per-packet one-way delay: 55.829 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 14.76 Mbit/s
95th percentile per-packet one-way delay: 59.377 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 22.69 Mbit/s
95th percentile per-packet one-way delay: 65.400 ms
Loss rate: 0.39%
```

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

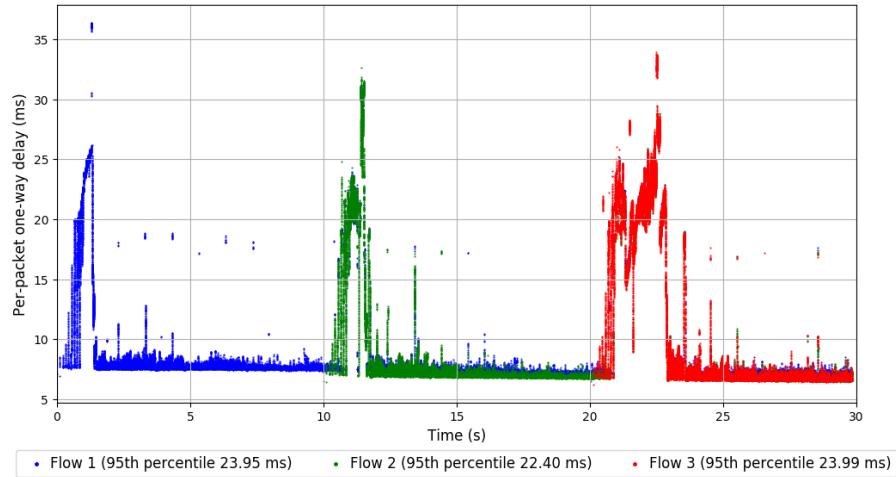
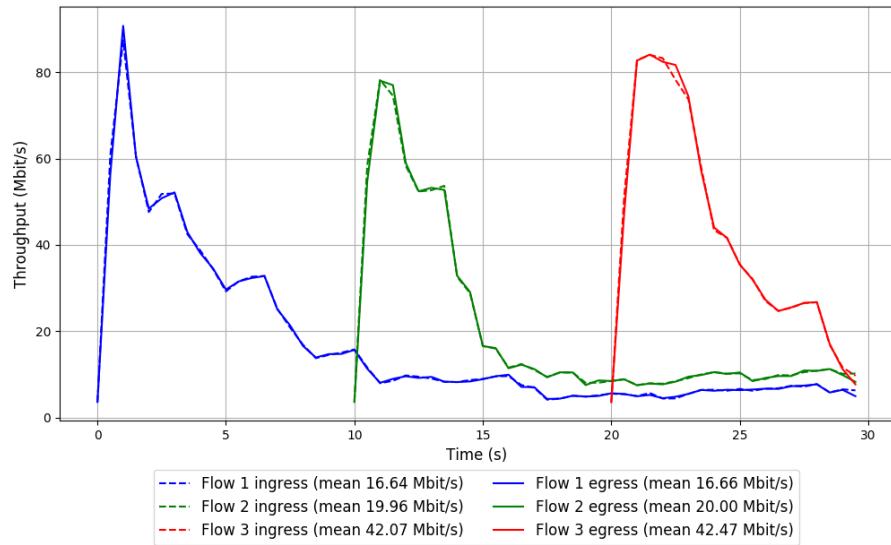


Run 4: Statistics of TCP Cubic

```
Start at: 2018-03-27 15:46:55
End at: 2018-03-27 15:47:25
Local clock offset: 6.055 ms
Remote clock offset: 65.026 ms

# Below is generated by plot.py at 2018-03-27 22:15:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 43.91 Mbit/s
95th percentile per-packet one-way delay: 23.704 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 16.66 Mbit/s
95th percentile per-packet one-way delay: 23.950 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 20.00 Mbit/s
95th percentile per-packet one-way delay: 22.403 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 42.47 Mbit/s
95th percentile per-packet one-way delay: 23.994 ms
Loss rate: 0.31%
```

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

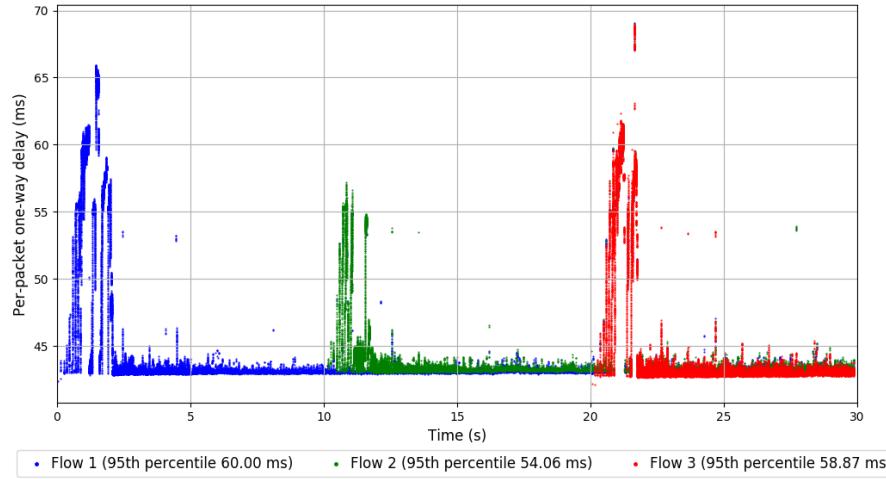
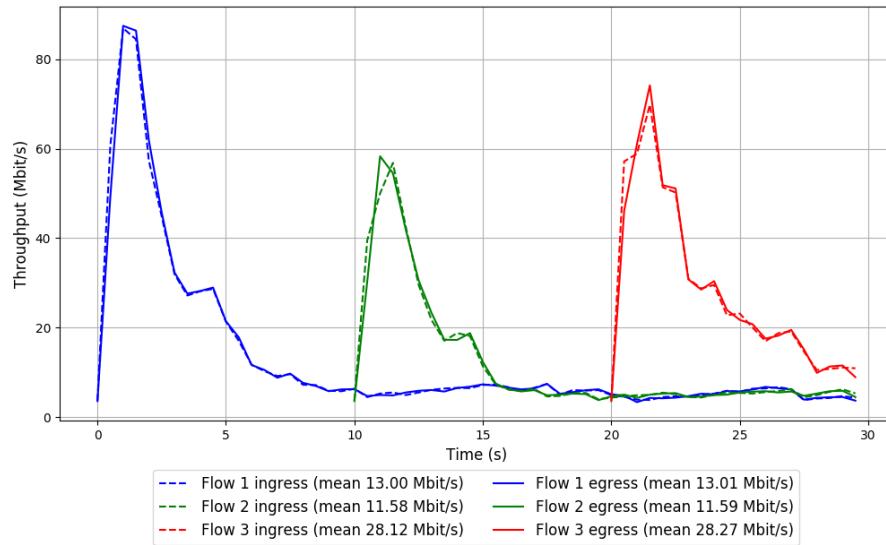


Run 5: Statistics of TCP Cubic

```
Start at: 2018-03-27 16:11:09
End at: 2018-03-27 16:11:39
Local clock offset: 10.076 ms
Remote clock offset: 22.234 ms

# Below is generated by plot.py at 2018-03-27 22:15:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 30.03 Mbit/s
95th percentile per-packet one-way delay: 59.062 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 13.01 Mbit/s
95th percentile per-packet one-way delay: 60.003 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 11.59 Mbit/s
95th percentile per-packet one-way delay: 54.058 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 28.27 Mbit/s
95th percentile per-packet one-way delay: 58.868 ms
Loss rate: 0.53%
```

Run 5: Report of TCP Cubic — Data Link

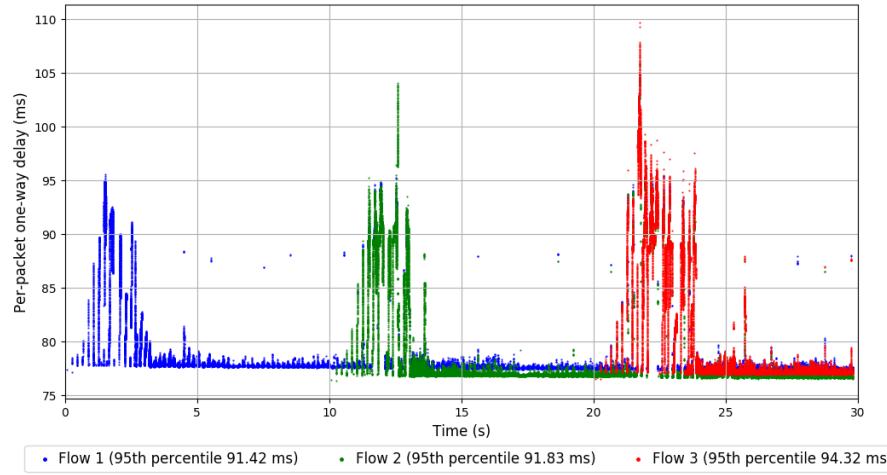
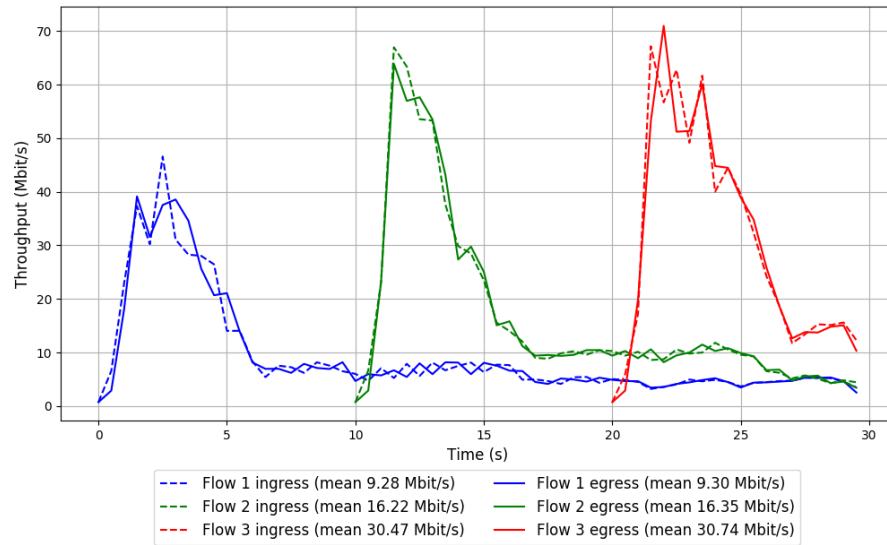


Run 6: Statistics of TCP Cubic

```
Start at: 2018-03-27 16:37:07
End at: 2018-03-27 16:37:37
Local clock offset: 9.919 ms
Remote clock offset: -57.259 ms

# Below is generated by plot.py at 2018-03-27 22:15:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 30.20 Mbit/s
95th percentile per-packet one-way delay: 92.486 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 9.30 Mbit/s
95th percentile per-packet one-way delay: 91.421 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 16.35 Mbit/s
95th percentile per-packet one-way delay: 91.832 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 30.74 Mbit/s
95th percentile per-packet one-way delay: 94.319 ms
Loss rate: 0.98%
```

Run 6: Report of TCP Cubic — Data Link

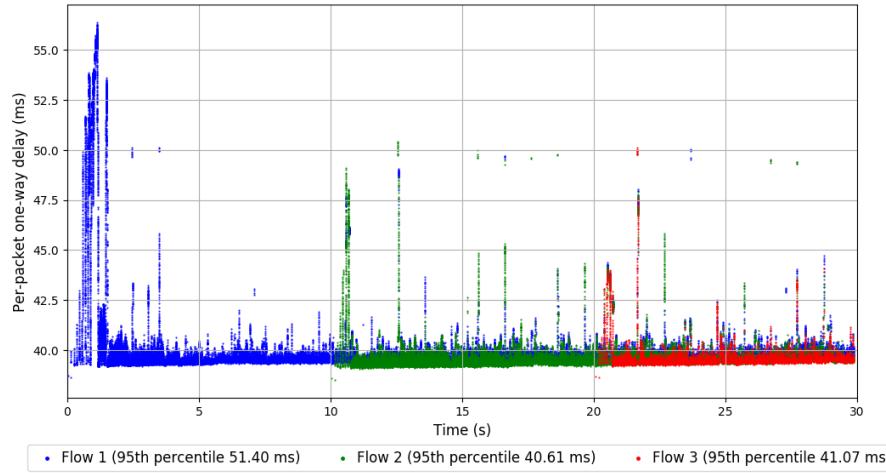
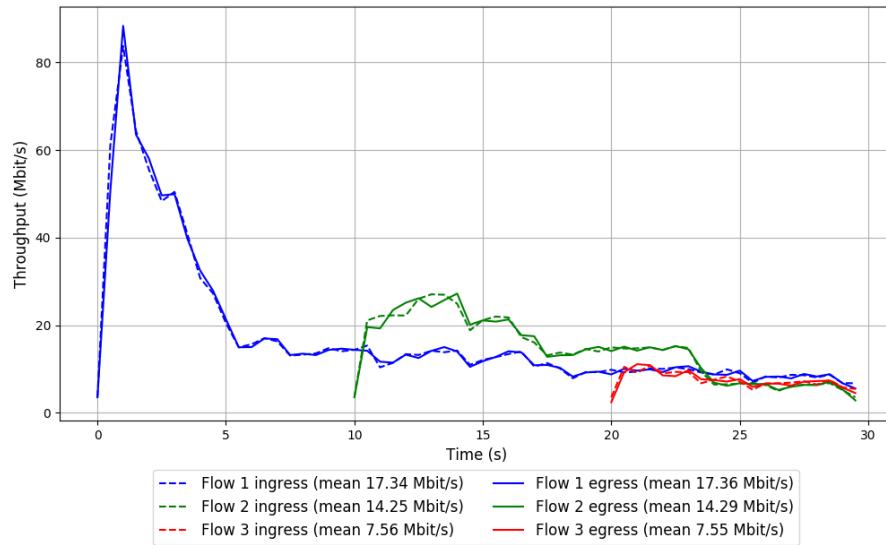


Run 7: Statistics of TCP Cubic

```
Start at: 2018-03-27 17:00:27
End at: 2018-03-27 17:00:57
Local clock offset: -1.149 ms
Remote clock offset: -18.579 ms

# Below is generated by plot.py at 2018-03-27 22:15:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 29.34 Mbit/s
95th percentile per-packet one-way delay: 46.000 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 17.36 Mbit/s
95th percentile per-packet one-way delay: 51.395 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 14.29 Mbit/s
95th percentile per-packet one-way delay: 40.612 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 7.55 Mbit/s
95th percentile per-packet one-way delay: 41.072 ms
Loss rate: 1.15%
```

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

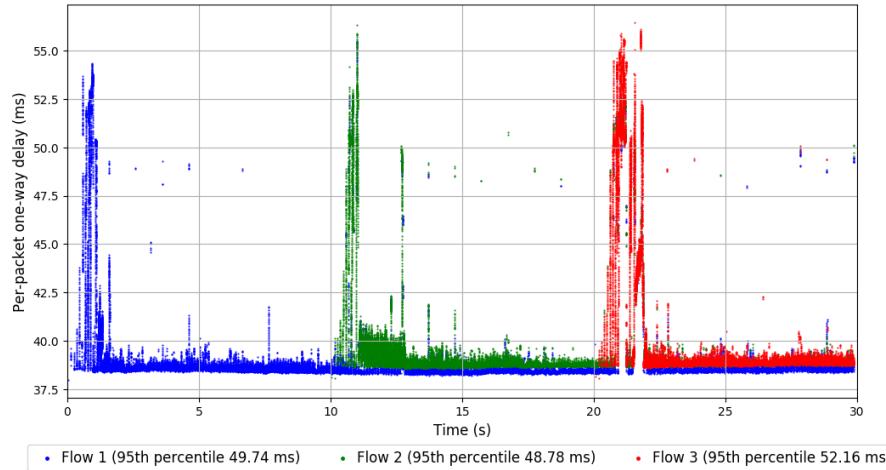
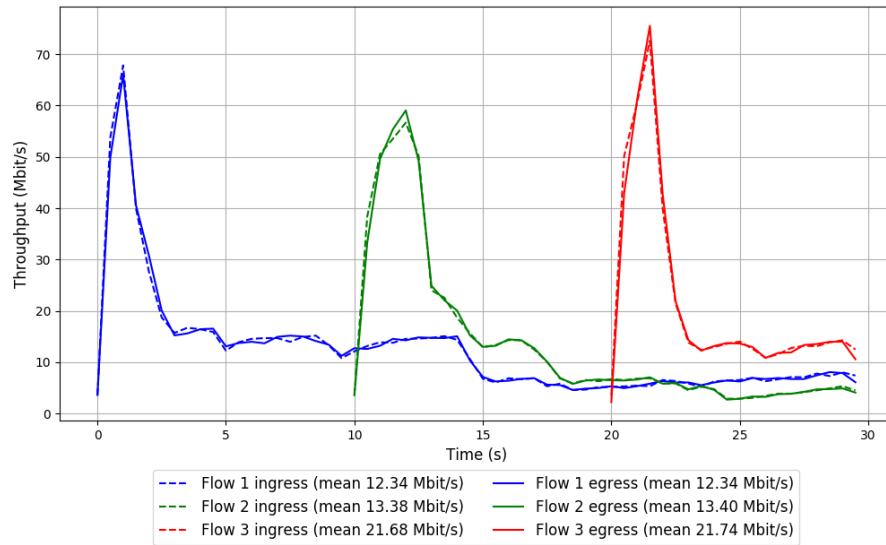


Run 8: Statistics of TCP Cubic

```
Start at: 2018-03-27 17:24:22
End at: 2018-03-27 17:24:52
Local clock offset: 1.986 ms
Remote clock offset: -19.861 ms

# Below is generated by plot.py at 2018-03-27 22:15:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 28.38 Mbit/s
95th percentile per-packet one-way delay: 50.633 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 12.34 Mbit/s
95th percentile per-packet one-way delay: 49.743 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 13.40 Mbit/s
95th percentile per-packet one-way delay: 48.780 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 21.74 Mbit/s
95th percentile per-packet one-way delay: 52.161 ms
Loss rate: 0.79%
```

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-03-27 17:47:58  
End at: 2018-03-27 17:48:28  
Local clock offset: 8.684 ms  
Remote clock offset: -10.966 ms

Run 9: Report of TCP Cubic — Data Link

Figure is missing

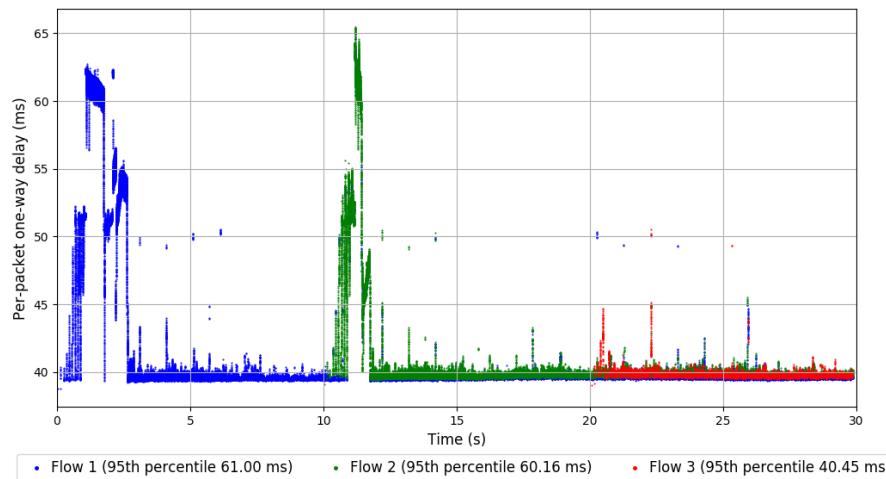
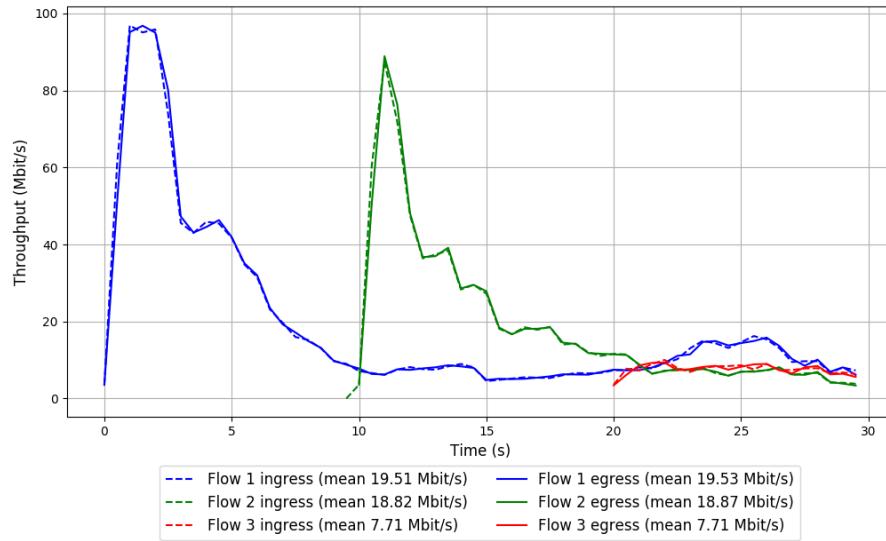
Figure is missing

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

```
Start at: 2018-03-27 18:10:47
End at: 2018-03-27 18:11:17
Local clock offset: 2.925 ms
Remote clock offset: -9.489 ms

# Below is generated by plot.py at 2018-03-27 22:15:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 34.62 Mbit/s
95th percentile per-packet one-way delay: 60.805 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 19.53 Mbit/s
95th percentile per-packet one-way delay: 61.004 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 18.87 Mbit/s
95th percentile per-packet one-way delay: 60.161 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 7.71 Mbit/s
95th percentile per-packet one-way delay: 40.451 ms
Loss rate: 1.10%
```

Run 10: Report of TCP Cubic — Data Link

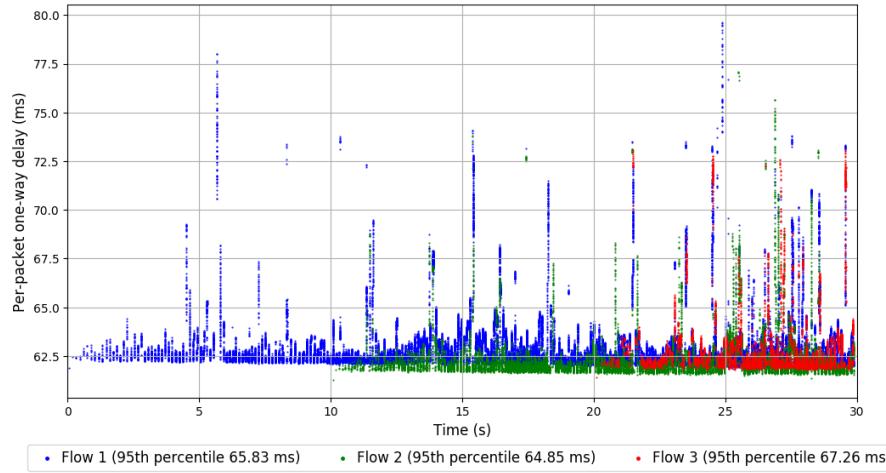
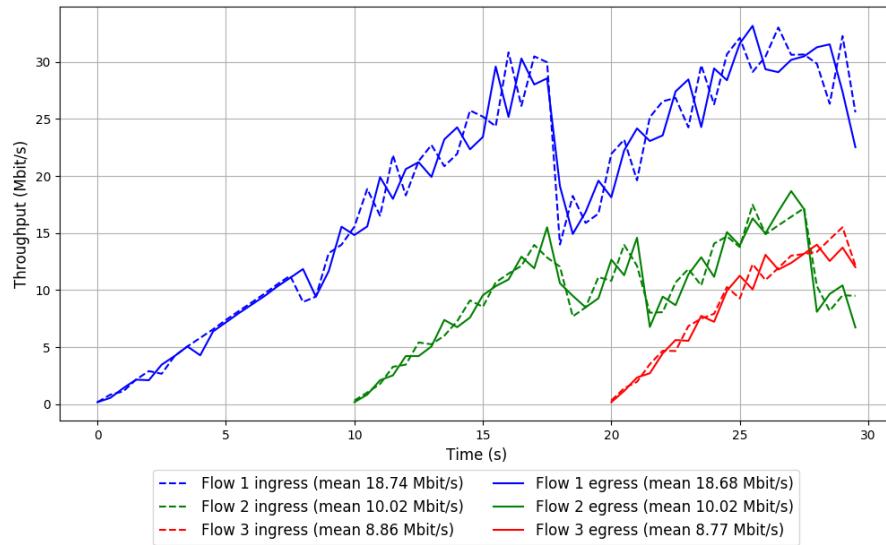


```
Run 1: Statistics of LEDBAT

Start at: 2018-03-27 14:26:32
End at: 2018-03-27 14:27:02
Local clock offset: -1.889 ms
Remote clock offset: -4.346 ms

# Below is generated by plot.py at 2018-03-27 22:15:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 28.20 Mbit/s
95th percentile per-packet one-way delay: 65.828 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 18.68 Mbit/s
95th percentile per-packet one-way delay: 65.832 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 10.02 Mbit/s
95th percentile per-packet one-way delay: 64.850 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 8.77 Mbit/s
95th percentile per-packet one-way delay: 67.264 ms
Loss rate: 2.34%
```

Run 1: Report of LEDBAT — Data Link

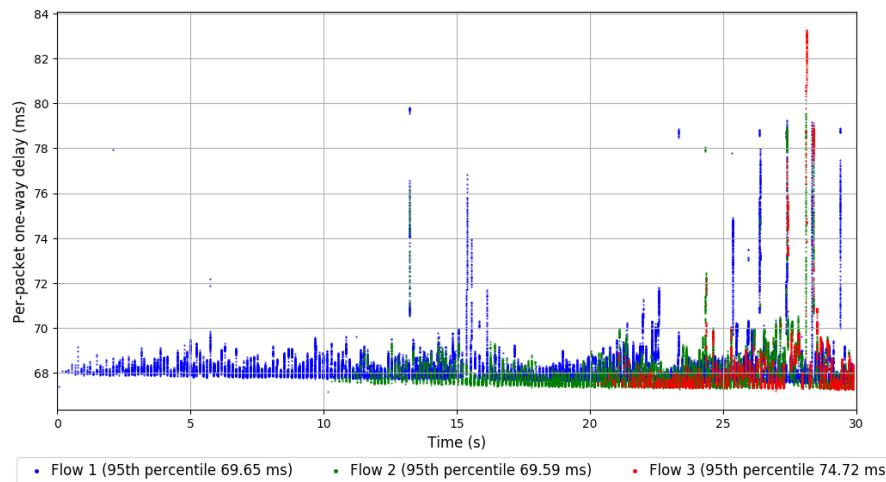
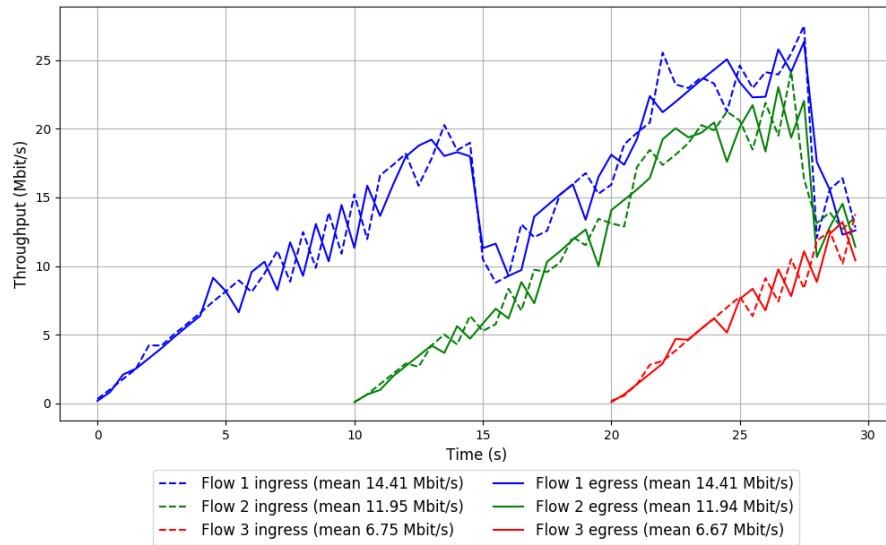


Run 2: Statistics of LEDBAT

```
Start at: 2018-03-27 14:50:27
End at: 2018-03-27 14:50:57
Local clock offset: -0.951 ms
Remote clock offset: -36.231 ms

# Below is generated by plot.py at 2018-03-27 22:15:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 24.44 Mbit/s
95th percentile per-packet one-way delay: 69.746 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 14.41 Mbit/s
95th percentile per-packet one-way delay: 69.651 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 11.94 Mbit/s
95th percentile per-packet one-way delay: 69.586 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 6.67 Mbit/s
95th percentile per-packet one-way delay: 74.724 ms
Loss rate: 2.68%
```

## Run 2: Report of LEDBAT — Data Link

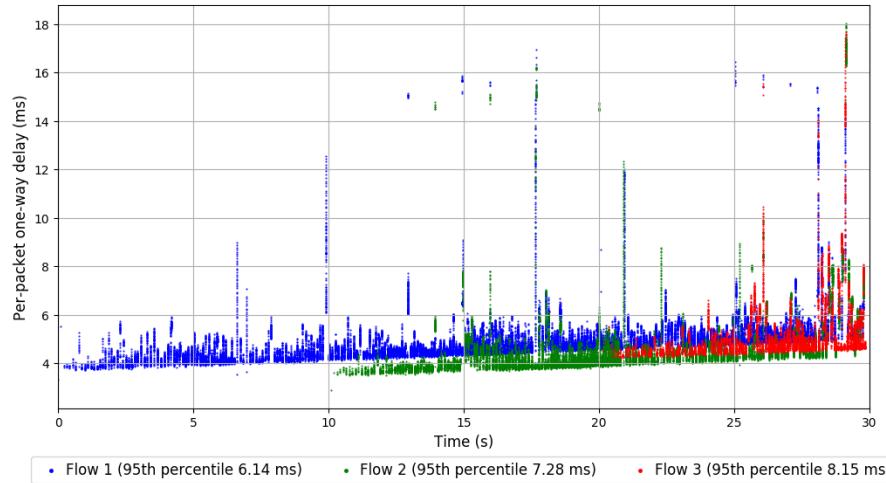
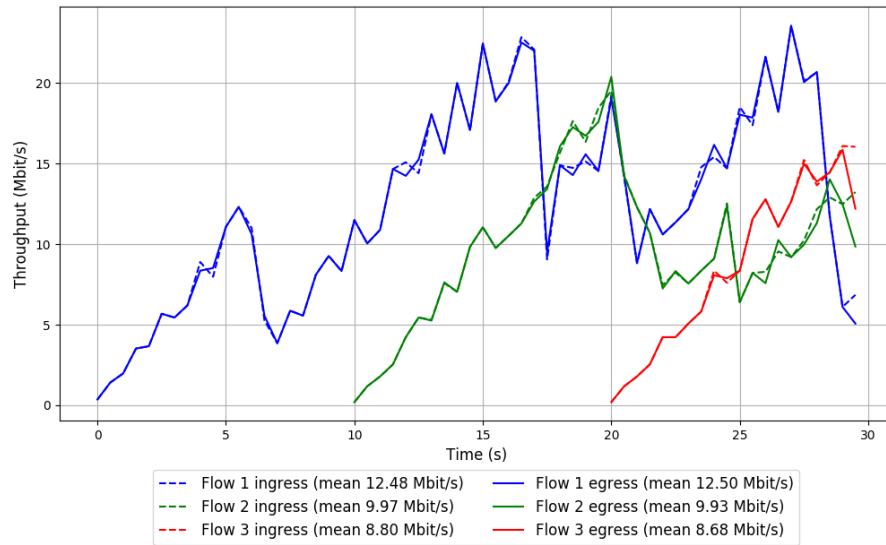


Run 3: Statistics of LEDBAT

```
Start at: 2018-03-27 15:15:27
End at: 2018-03-27 15:15:57
Local clock offset: -0.401 ms
Remote clock offset: 46.764 ms

# Below is generated by plot.py at 2018-03-27 22:15:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 21.85 Mbit/s
95th percentile per-packet one-way delay: 6.789 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 12.50 Mbit/s
95th percentile per-packet one-way delay: 6.143 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 9.93 Mbit/s
95th percentile per-packet one-way delay: 7.278 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 8.68 Mbit/s
95th percentile per-packet one-way delay: 8.147 ms
Loss rate: 2.36%
```

Run 3: Report of LEDBAT — Data Link

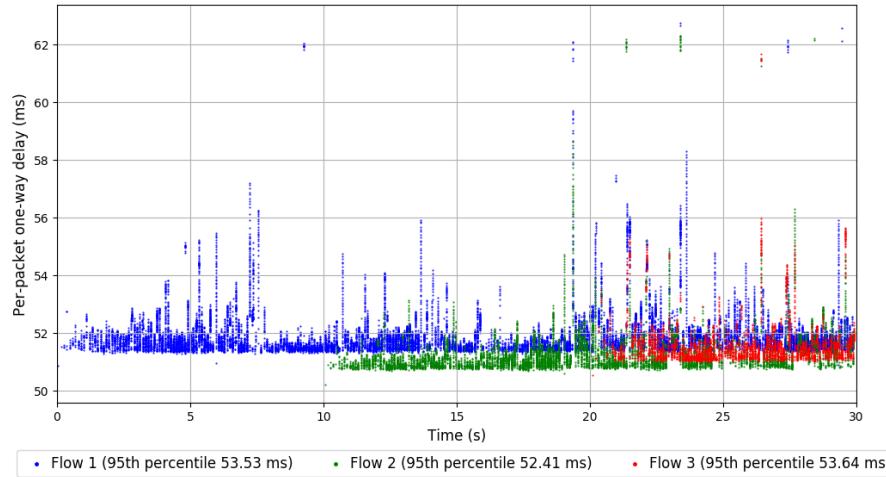
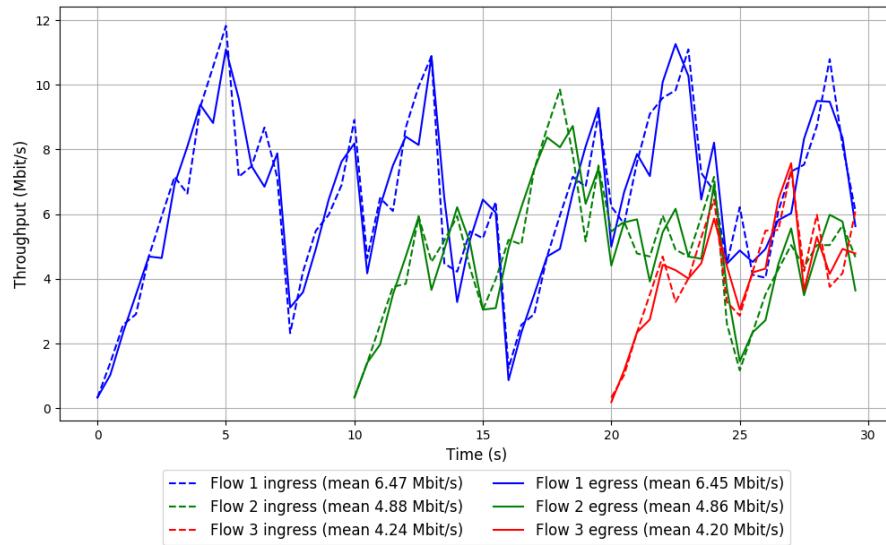


Run 4: Statistics of LEDBAT

```
Start at: 2018-03-27 15:40:22
End at: 2018-03-27 15:40:52
Local clock offset: 3.548 ms
Remote clock offset: 28.828 ms

# Below is generated by plot.py at 2018-03-27 22:15:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.06 Mbit/s
95th percentile per-packet one-way delay: 53.201 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 6.45 Mbit/s
95th percentile per-packet one-way delay: 53.531 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 4.86 Mbit/s
95th percentile per-packet one-way delay: 52.409 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 4.20 Mbit/s
95th percentile per-packet one-way delay: 53.640 ms
Loss rate: 1.96%
```

Run 4: Report of LEDBAT — Data Link

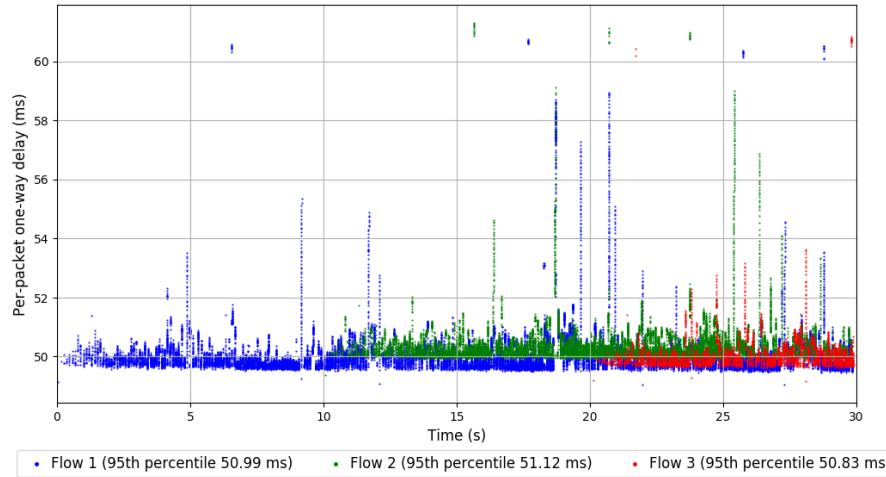
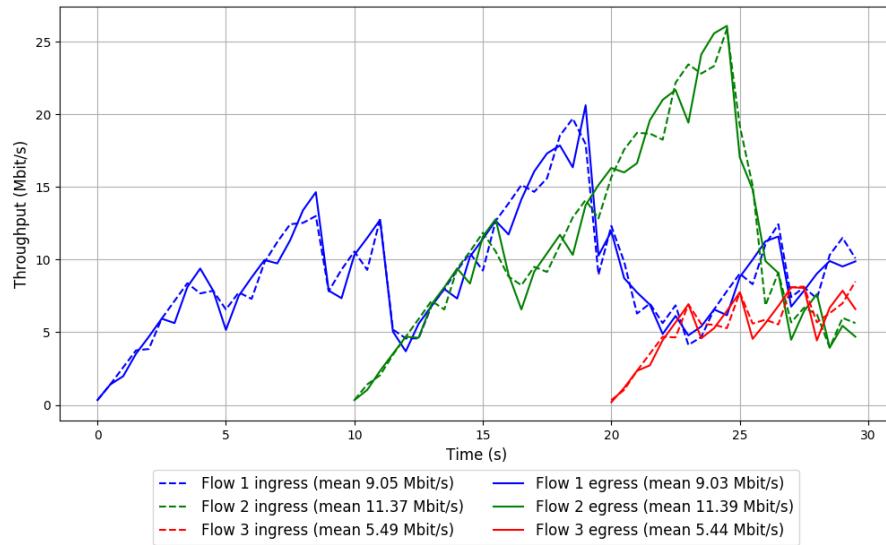


Run 5: Statistics of LEDBAT

```
Start at: 2018-03-27 16:04:03
End at: 2018-03-27 16:04:33
Local clock offset: 9.364 ms
Remote clock offset: 14.912 ms

# Below is generated by plot.py at 2018-03-27 22:15:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.33 Mbit/s
95th percentile per-packet one-way delay: 51.037 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 9.03 Mbit/s
95th percentile per-packet one-way delay: 50.993 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 11.39 Mbit/s
95th percentile per-packet one-way delay: 51.117 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 5.44 Mbit/s
95th percentile per-packet one-way delay: 50.827 ms
Loss rate: 1.88%
```

Run 5: Report of LEDBAT — Data Link

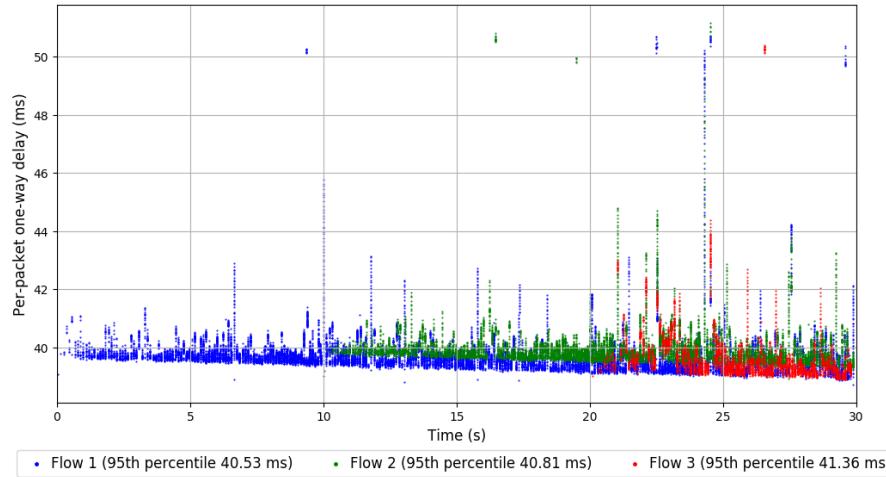
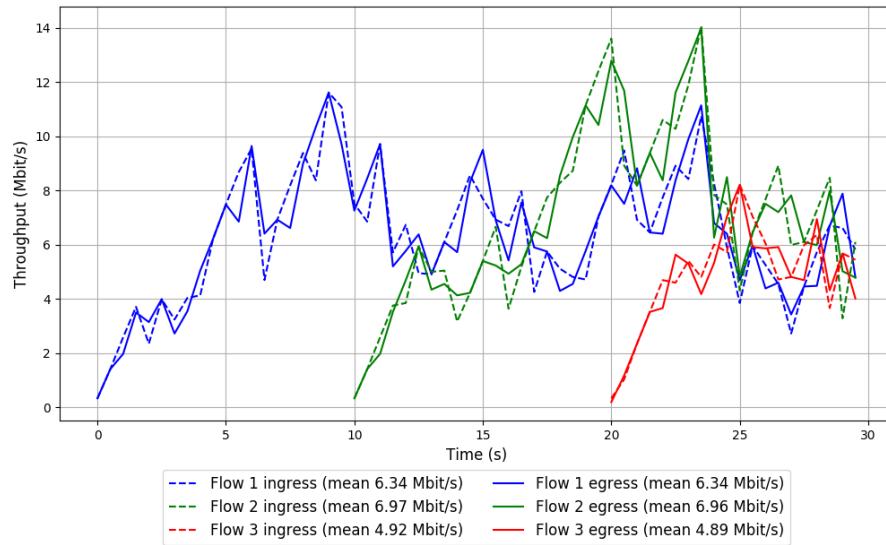


Run 6: Statistics of LEDBAT

```
Start at: 2018-03-27 16:29:42
End at: 2018-03-27 16:30:12
Local clock offset: 9.471 ms
Remote clock offset: -10.712 ms

# Below is generated by plot.py at 2018-03-27 22:15:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.55 Mbit/s
95th percentile per-packet one-way delay: 40.742 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 6.34 Mbit/s
95th percentile per-packet one-way delay: 40.527 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 6.96 Mbit/s
95th percentile per-packet one-way delay: 40.810 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 4.89 Mbit/s
95th percentile per-packet one-way delay: 41.356 ms
Loss rate: 1.75%
```

## Run 6: Report of LEDBAT — Data Link

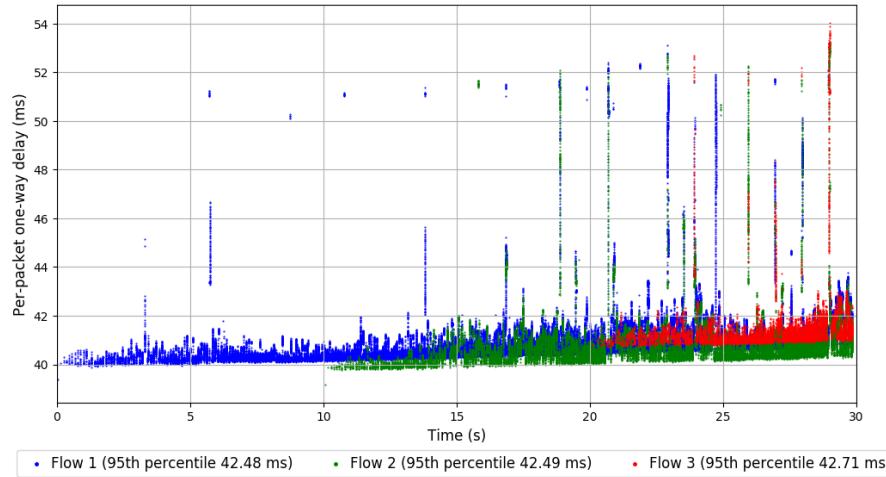
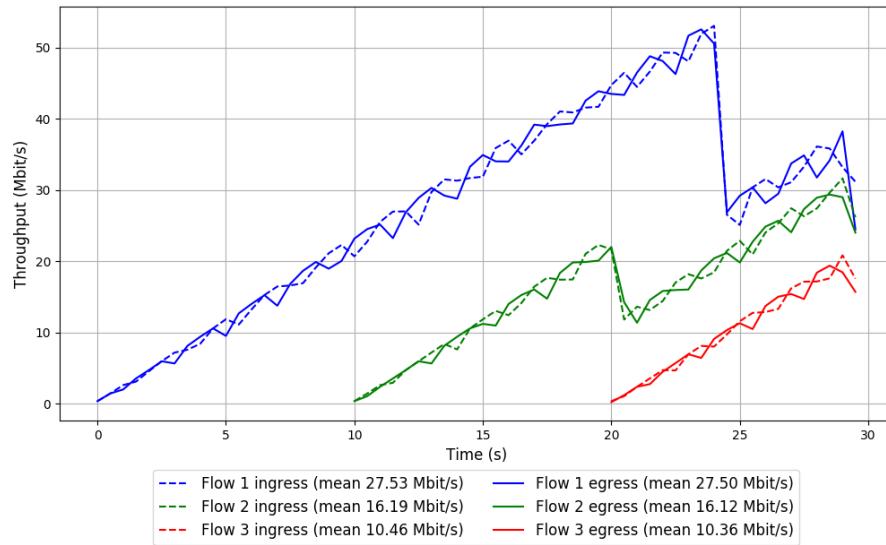


Run 7: Statistics of LEDBAT

```
Start at: 2018-03-27 16:54:03
End at: 2018-03-27 16:54:33
Local clock offset: 1.509 ms
Remote clock offset: -24.246 ms

# Below is generated by plot.py at 2018-03-27 22:15:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 41.57 Mbit/s
95th percentile per-packet one-way delay: 42.501 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 27.50 Mbit/s
95th percentile per-packet one-way delay: 42.483 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 16.12 Mbit/s
95th percentile per-packet one-way delay: 42.489 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 10.36 Mbit/s
95th percentile per-packet one-way delay: 42.708 ms
Loss rate: 2.16%
```

Run 7: Report of LEDBAT — Data Link

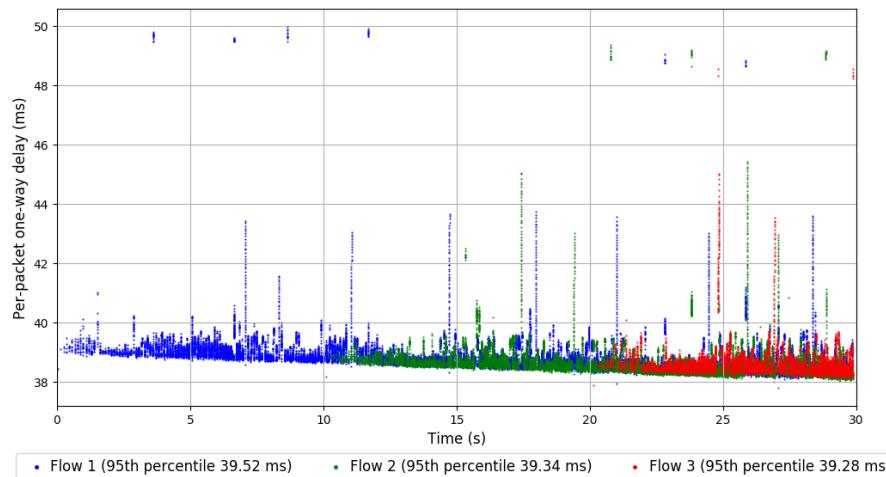
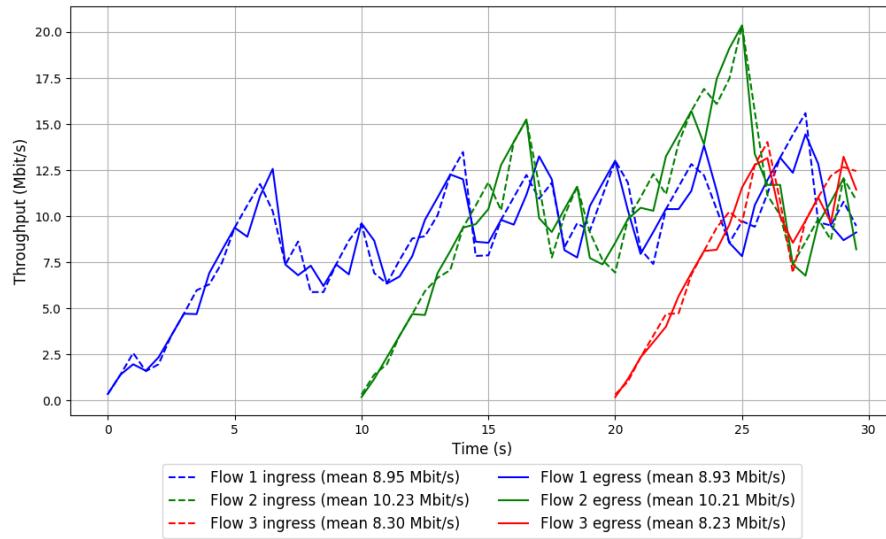


Run 8: Statistics of LEDBAT

```
Start at: 2018-03-27 17:17:37
End at: 2018-03-27 17:18:07
Local clock offset: -5.061 ms
Remote clock offset: -18.173 ms

# Below is generated by plot.py at 2018-03-27 22:15:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.37 Mbit/s
95th percentile per-packet one-way delay: 39.440 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 8.93 Mbit/s
95th percentile per-packet one-way delay: 39.518 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 10.21 Mbit/s
95th percentile per-packet one-way delay: 39.342 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 8.23 Mbit/s
95th percentile per-packet one-way delay: 39.281 ms
Loss rate: 1.86%
```

Run 8: Report of LEDBAT — Data Link

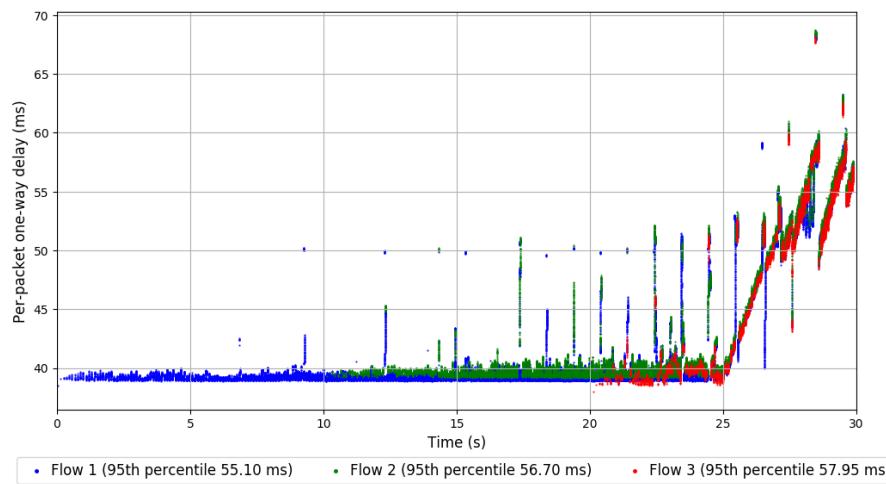
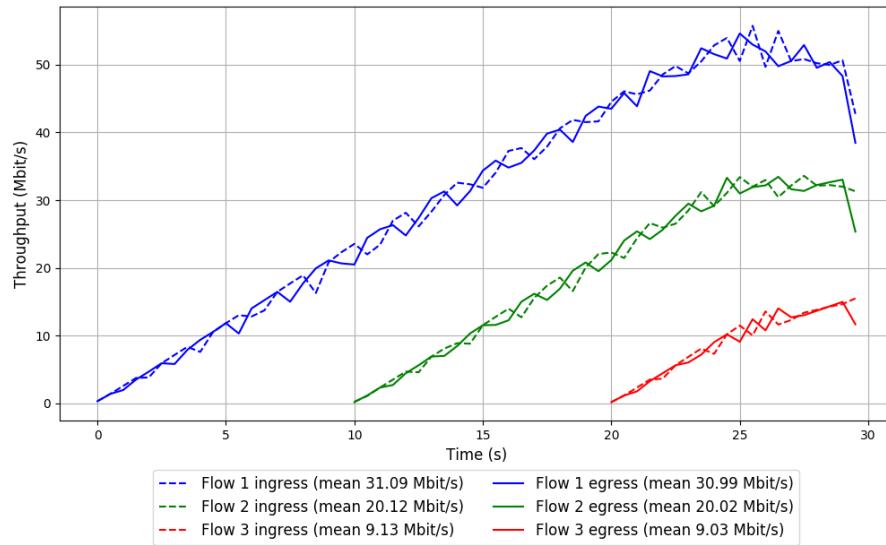


Run 9: Statistics of LEDBAT

```
Start at: 2018-03-27 17:41:36
End at: 2018-03-27 17:42:06
Local clock offset: 7.692 ms
Remote clock offset: -11.337 ms

# Below is generated by plot.py at 2018-03-27 22:15:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 47.18 Mbit/s
95th percentile per-packet one-way delay: 55.988 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 30.99 Mbit/s
95th percentile per-packet one-way delay: 55.101 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 20.02 Mbit/s
95th percentile per-packet one-way delay: 56.698 ms
Loss rate: 1.07%
-- Flow 3:
Average throughput: 9.03 Mbit/s
95th percentile per-packet one-way delay: 57.947 ms
Loss rate: 2.21%
```

Run 9: Report of LEDBAT — Data Link

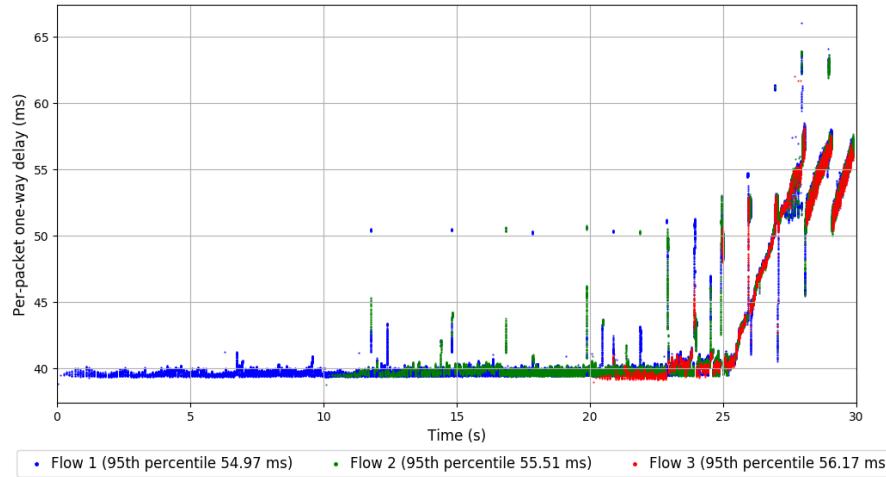
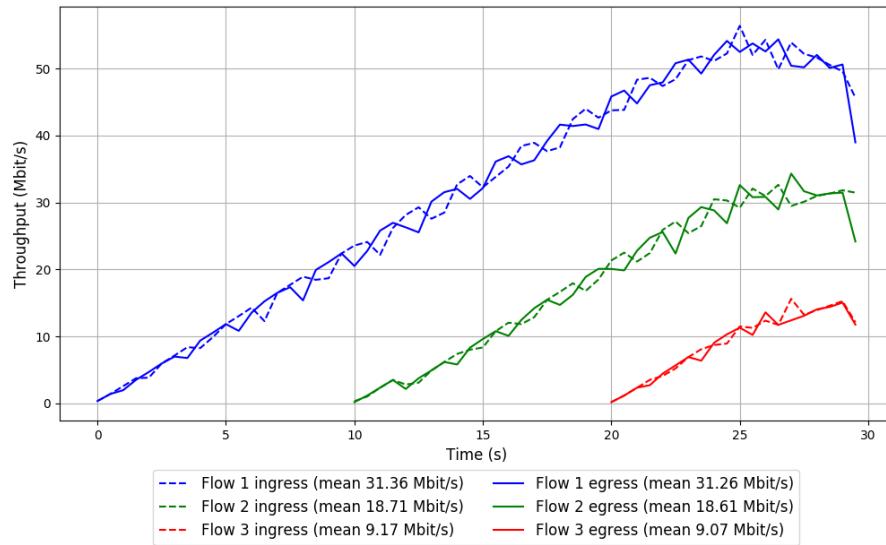


Run 10: Statistics of LEDBAT

```
Start at: 2018-03-27 18:04:24
End at: 2018-03-27 18:04:54
Local clock offset: 3.965 ms
Remote clock offset: -9.958 ms

# Below is generated by plot.py at 2018-03-27 22:15:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 46.56 Mbit/s
95th percentile per-packet one-way delay: 55.266 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 31.26 Mbit/s
95th percentile per-packet one-way delay: 54.970 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 18.61 Mbit/s
95th percentile per-packet one-way delay: 55.509 ms
Loss rate: 1.07%
-- Flow 3:
Average throughput: 9.07 Mbit/s
95th percentile per-packet one-way delay: 56.166 ms
Loss rate: 2.22%
```

## Run 10: Report of LEDBAT — Data Link

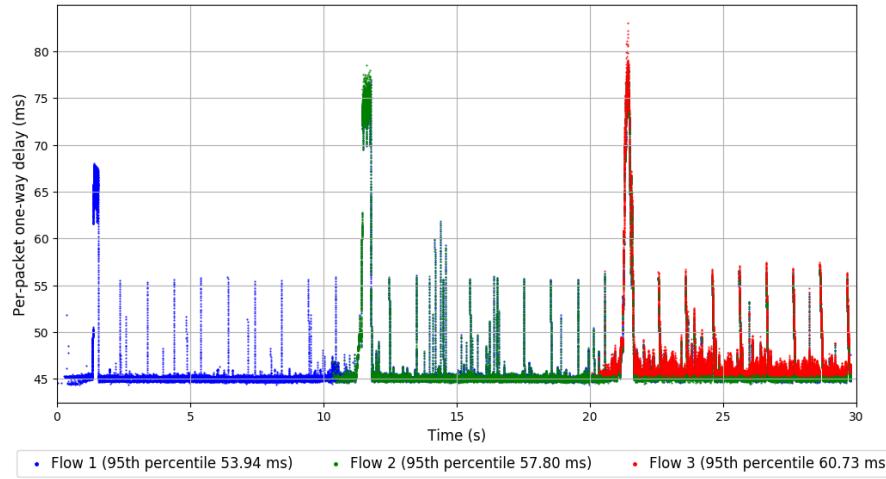
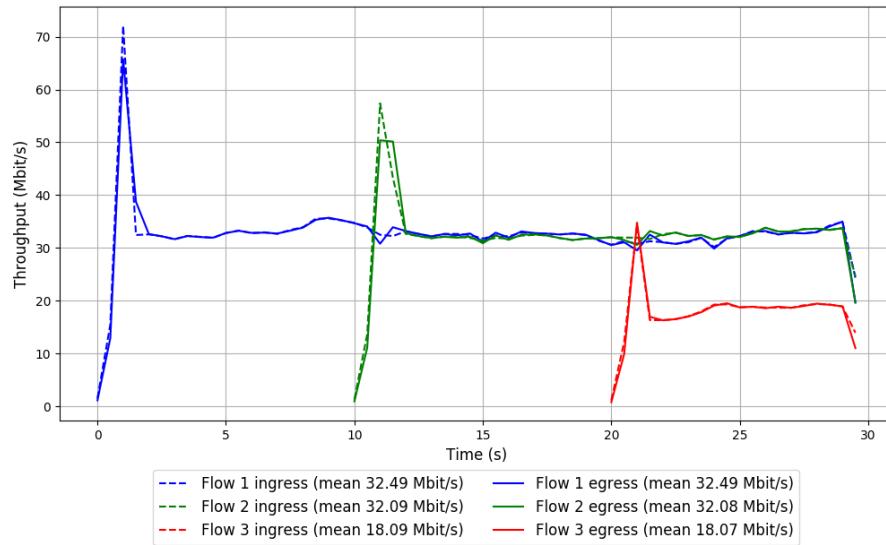


```
Run 1: Statistics of PCC

Start at: 2018-03-27 14:21:36
End at: 2018-03-27 14:22:06
Local clock offset: -1.557 ms
Remote clock offset: 15.377 ms

# Below is generated by plot.py at 2018-03-27 22:15:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 59.66 Mbit/s
95th percentile per-packet one-way delay: 55.597 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 32.49 Mbit/s
95th percentile per-packet one-way delay: 53.936 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 32.08 Mbit/s
95th percentile per-packet one-way delay: 57.804 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 18.07 Mbit/s
95th percentile per-packet one-way delay: 60.727 ms
Loss rate: 1.32%
```

## Run 1: Report of PCC — Data Link

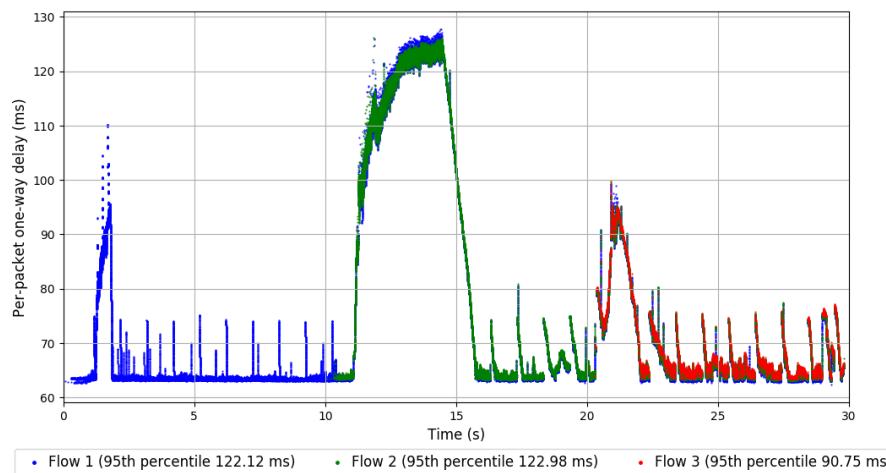
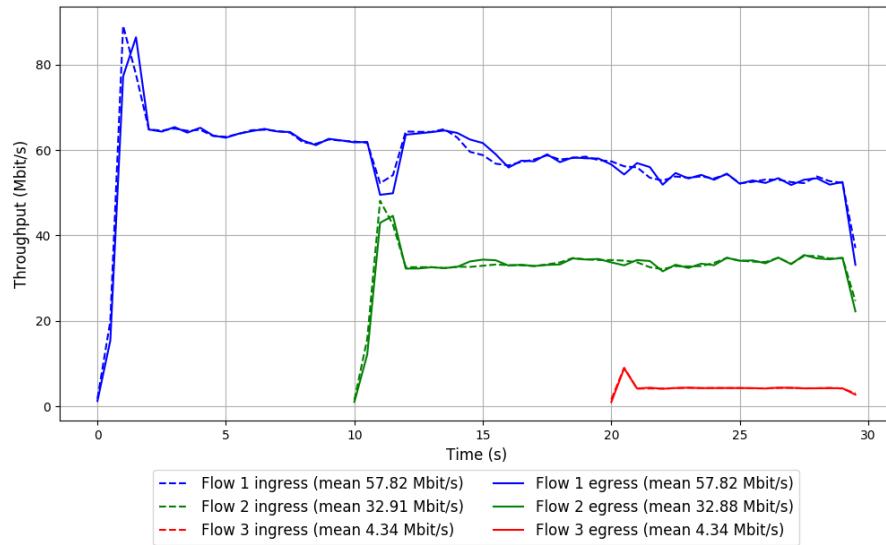


Run 2: Statistics of PCC

```
Start at: 2018-03-27 14:45:24
End at: 2018-03-27 14:45:54
Local clock offset: -0.985 ms
Remote clock offset: -27.555 ms

# Below is generated by plot.py at 2018-03-27 22:16:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.05 Mbit/s
95th percentile per-packet one-way delay: 122.385 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 57.82 Mbit/s
95th percentile per-packet one-way delay: 122.119 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 32.88 Mbit/s
95th percentile per-packet one-way delay: 122.980 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 4.34 Mbit/s
95th percentile per-packet one-way delay: 90.747 ms
Loss rate: 1.08%
```

## Run 2: Report of PCC — Data Link

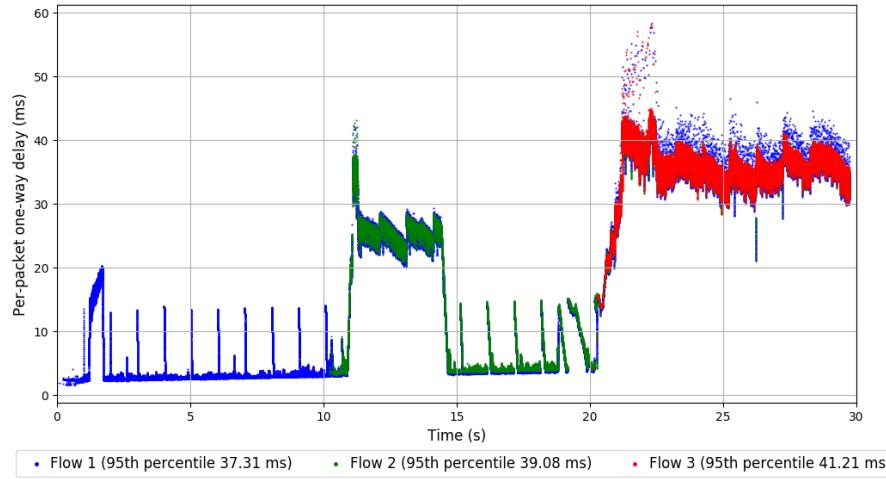
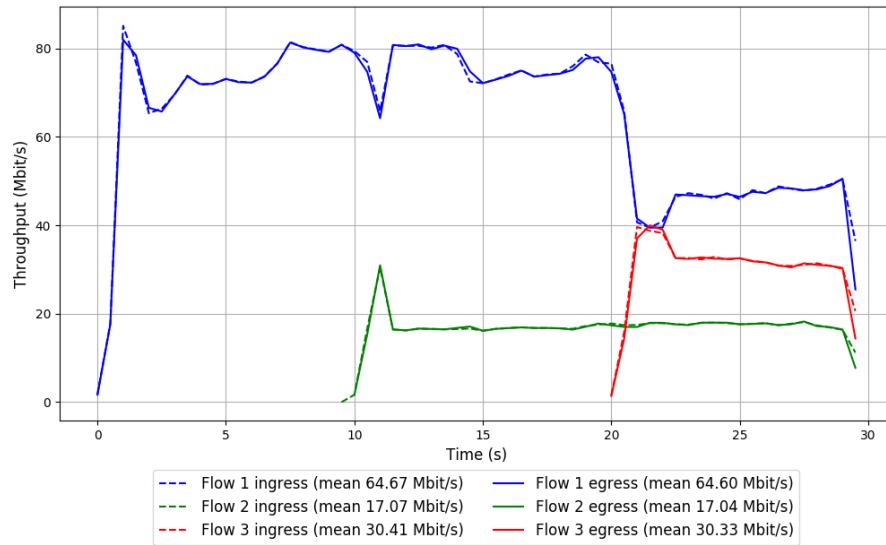


Run 3: Statistics of PCC

```
Start at: 2018-03-27 15:10:34
End at: 2018-03-27 15:11:04
Local clock offset: -0.708 ms
Remote clock offset: 30.332 ms

# Below is generated by plot.py at 2018-03-27 22:16:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.83 Mbit/s
95th percentile per-packet one-way delay: 38.446 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 64.60 Mbit/s
95th percentile per-packet one-way delay: 37.312 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 17.04 Mbit/s
95th percentile per-packet one-way delay: 39.083 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 30.33 Mbit/s
95th percentile per-packet one-way delay: 41.211 ms
Loss rate: 1.43%
```

### Run 3: Report of PCC — Data Link

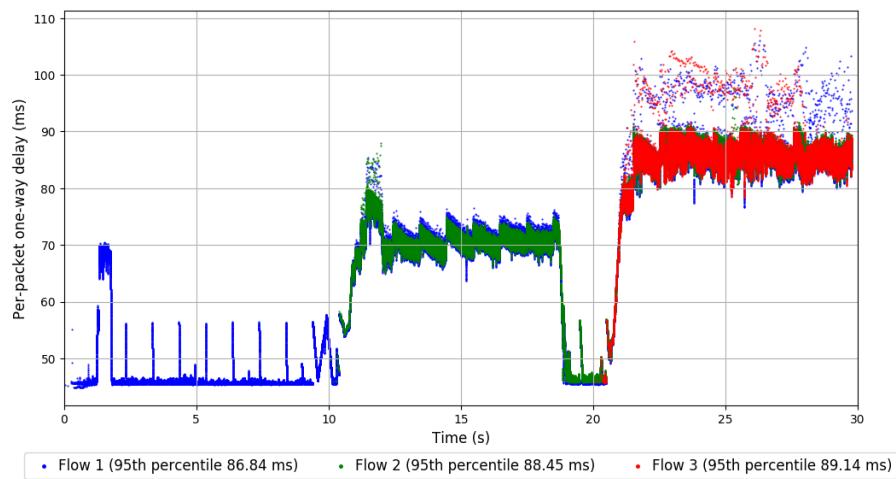
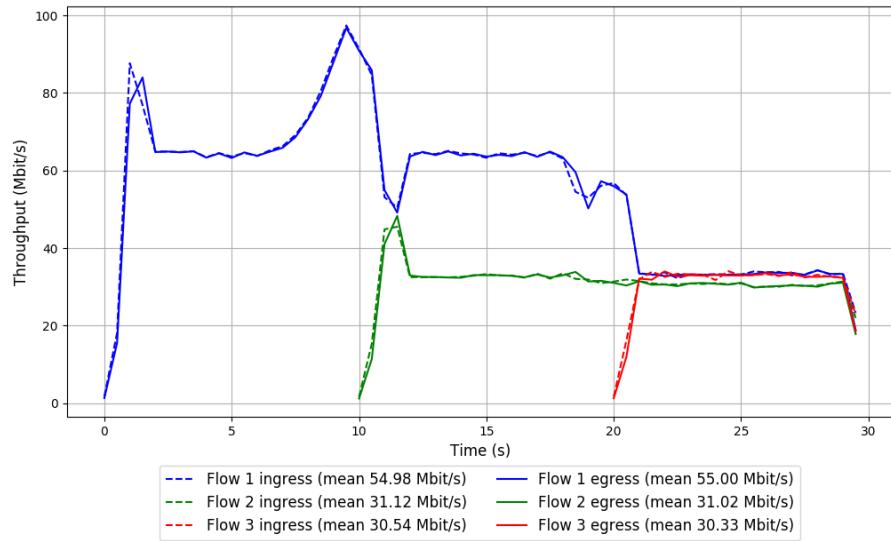


Run 4: Statistics of PCC

```
Start at: 2018-03-27 15:35:23
End at: 2018-03-27 15:35:53
Local clock offset: 0.498 ms
Remote clock offset: 30.617 ms

# Below is generated by plot.py at 2018-03-27 22:16:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.48 Mbit/s
95th percentile per-packet one-way delay: 87.942 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 55.00 Mbit/s
95th percentile per-packet one-way delay: 86.837 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 31.02 Mbit/s
95th percentile per-packet one-way delay: 88.448 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 30.33 Mbit/s
95th percentile per-packet one-way delay: 89.138 ms
Loss rate: 1.81%
```

## Run 4: Report of PCC — Data Link

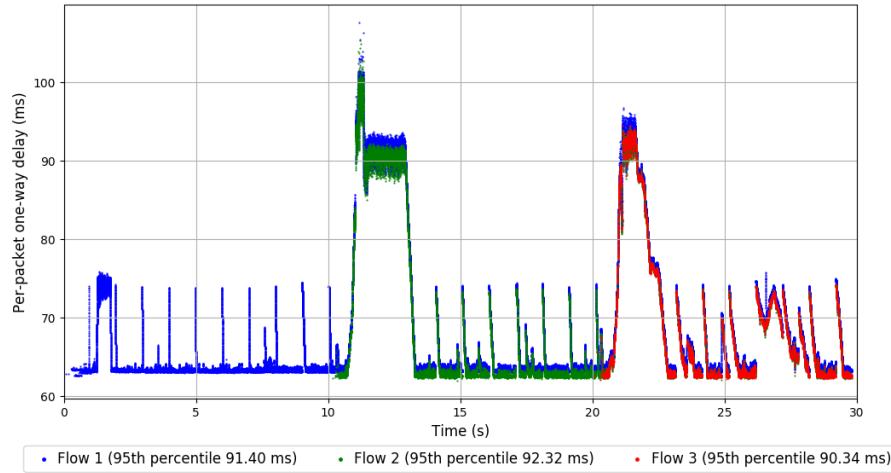
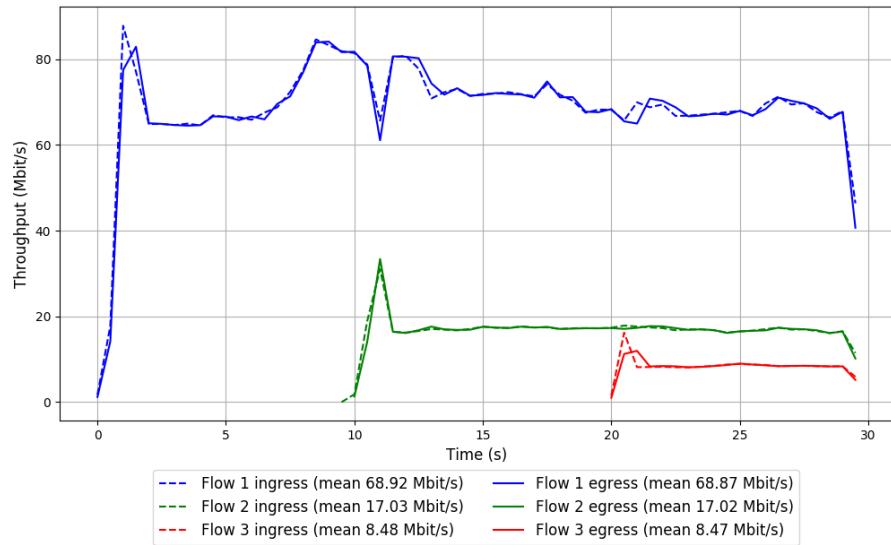


Run 5: Statistics of PCC

```
Start at: 2018-03-27 15:59:06
End at: 2018-03-27 15:59:36
Local clock offset: 8.899 ms
Remote clock offset: 2.406 ms

# Below is generated by plot.py at 2018-03-27 22:16:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.94 Mbit/s
95th percentile per-packet one-way delay: 91.471 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 68.87 Mbit/s
95th percentile per-packet one-way delay: 91.398 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 17.02 Mbit/s
95th percentile per-packet one-way delay: 92.324 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 8.47 Mbit/s
95th percentile per-packet one-way delay: 90.344 ms
Loss rate: 1.18%
```

## Run 5: Report of PCC — Data Link

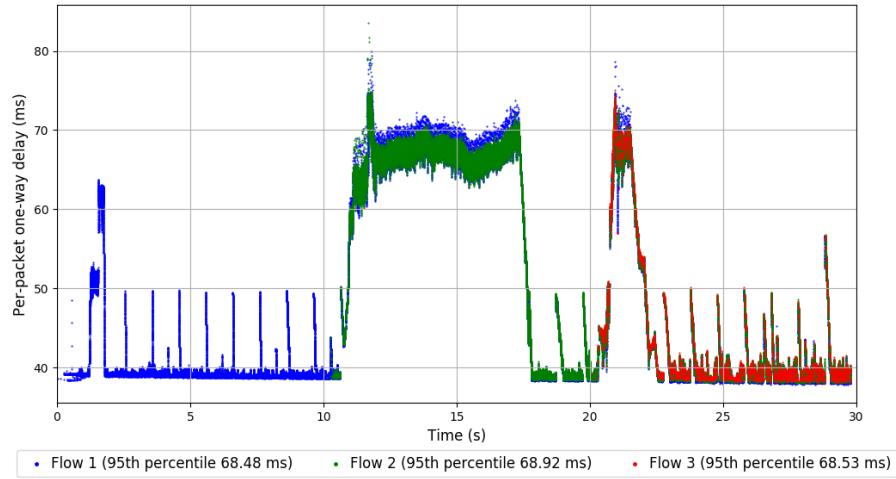
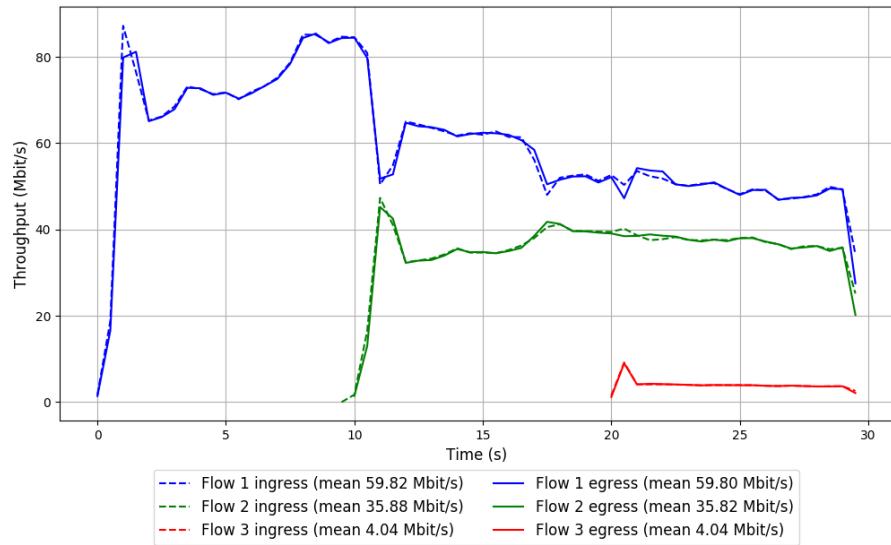


Run 6: Statistics of PCC

```
Start at: 2018-03-27 16:24:33
End at: 2018-03-27 16:25:03
Local clock offset: 9.313 ms
Remote clock offset: -0.693 ms

# Below is generated by plot.py at 2018-03-27 22:16:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.90 Mbit/s
95th percentile per-packet one-way delay: 68.635 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 59.80 Mbit/s
95th percentile per-packet one-way delay: 68.485 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 35.82 Mbit/s
95th percentile per-packet one-way delay: 68.924 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 4.04 Mbit/s
95th percentile per-packet one-way delay: 68.526 ms
Loss rate: 1.15%
```

## Run 6: Report of PCC — Data Link

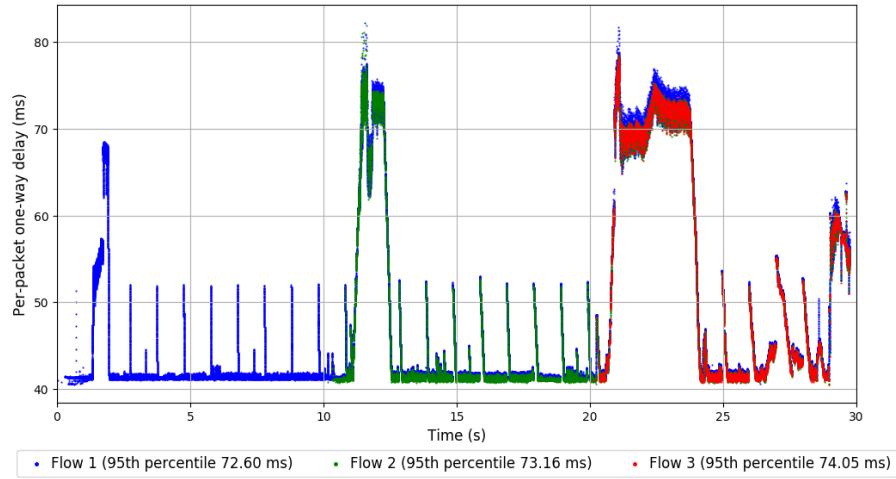
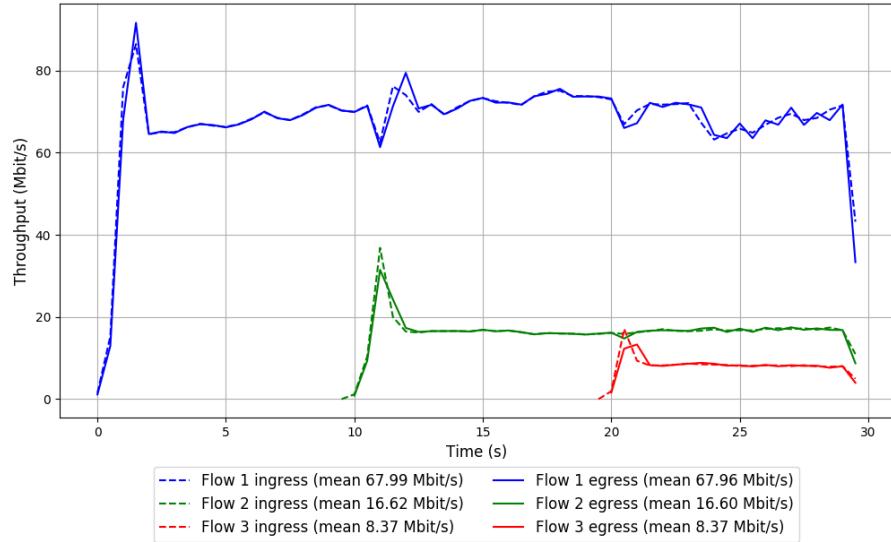


Run 7: Statistics of PCC

```
Start at: 2018-03-27 16:49:12
End at: 2018-03-27 16:49:42
Local clock offset: 4.506 ms
Remote clock offset: -30.591 ms

# Below is generated by plot.py at 2018-03-27 22:17:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.71 Mbit/s
95th percentile per-packet one-way delay: 72.769 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 67.96 Mbit/s
95th percentile per-packet one-way delay: 72.602 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 16.60 Mbit/s
95th percentile per-packet one-way delay: 73.164 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 8.37 Mbit/s
95th percentile per-packet one-way delay: 74.045 ms
Loss rate: 1.17%
```

## Run 7: Report of PCC — Data Link

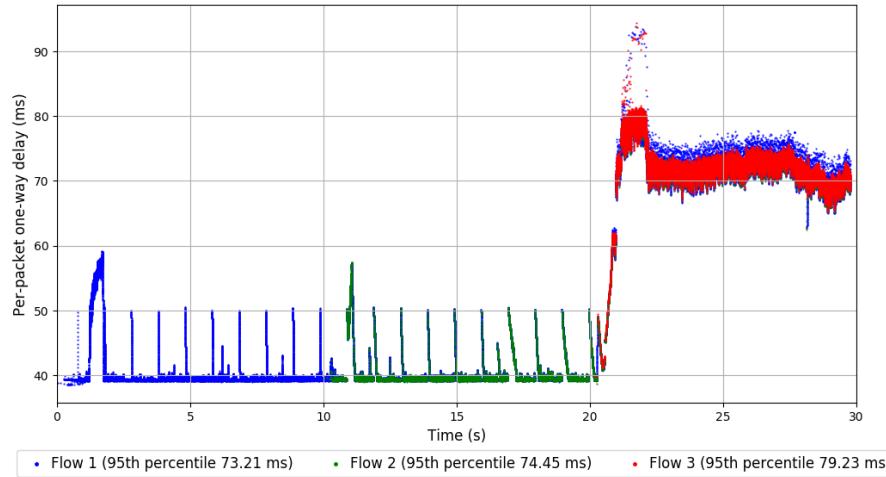
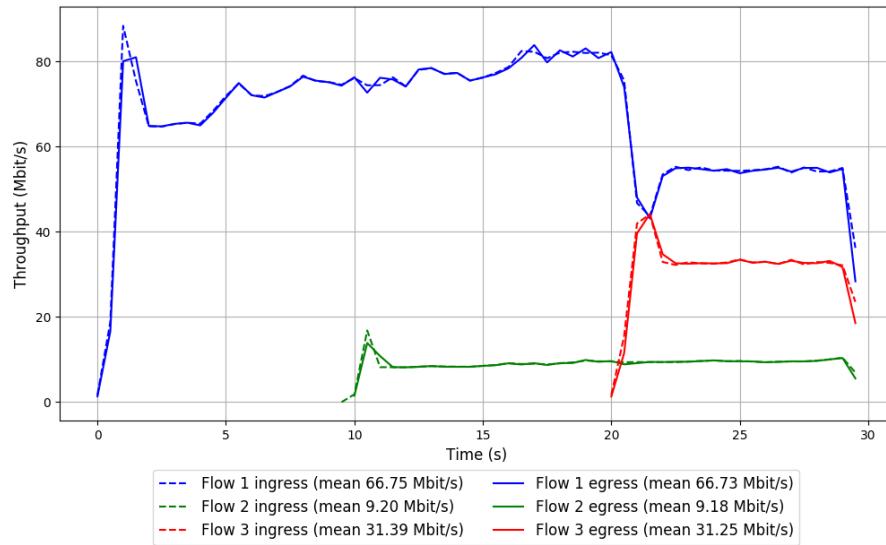


Run 8: Statistics of PCC

```
Start at: 2018-03-27 17:12:41
End at: 2018-03-27 17:13:11
Local clock offset: -4.063 ms
Remote clock offset: -17.373 ms

# Below is generated by plot.py at 2018-03-27 22:17:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.04 Mbit/s
95th percentile per-packet one-way delay: 74.094 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 66.73 Mbit/s
95th percentile per-packet one-way delay: 73.208 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 9.18 Mbit/s
95th percentile per-packet one-way delay: 74.446 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 31.25 Mbit/s
95th percentile per-packet one-way delay: 79.229 ms
Loss rate: 1.63%
```

Run 8: Report of PCC — Data Link

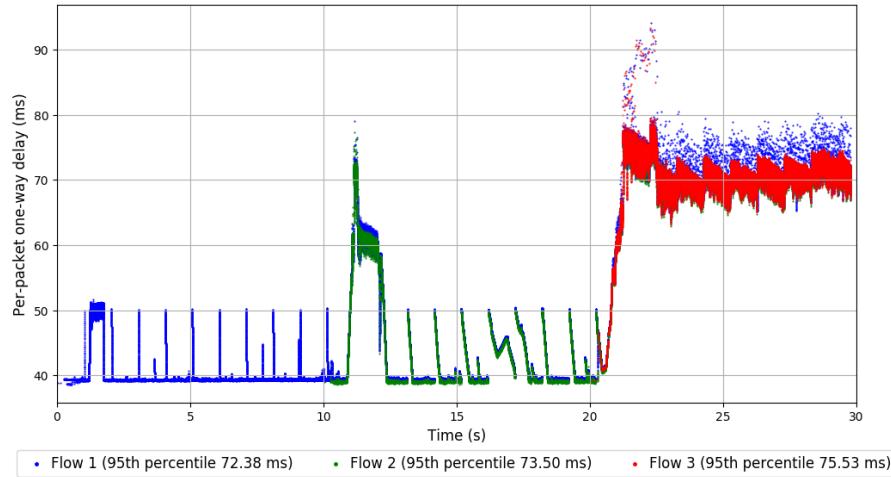
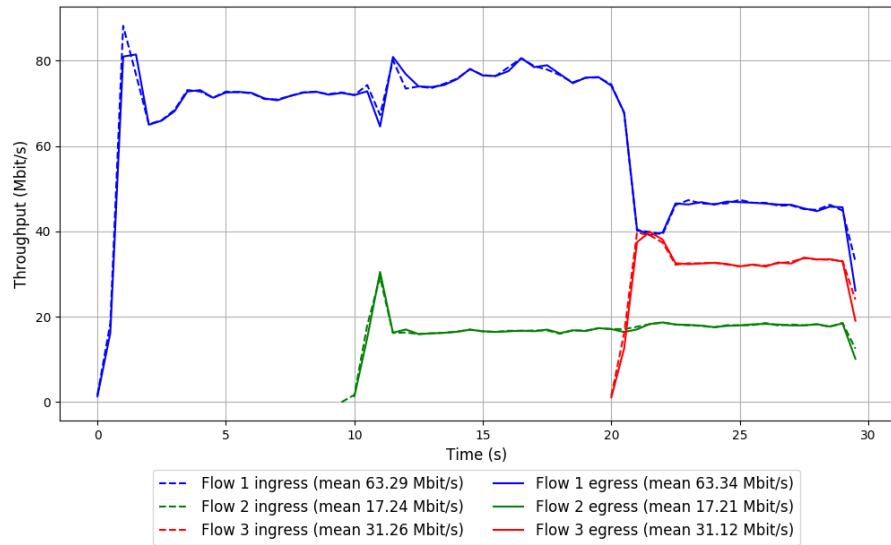


Run 9: Statistics of PCC

```
Start at: 2018-03-27 17:36:44
End at: 2018-03-27 17:37:14
Local clock offset: 7.23 ms
Remote clock offset: -12.297 ms

# Below is generated by plot.py at 2018-03-27 22:17:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.94 Mbit/s
95th percentile per-packet one-way delay: 73.248 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 63.34 Mbit/s
95th percentile per-packet one-way delay: 72.375 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 17.21 Mbit/s
95th percentile per-packet one-way delay: 73.495 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 31.12 Mbit/s
95th percentile per-packet one-way delay: 75.529 ms
Loss rate: 1.58%
```

## Run 9: Report of PCC — Data Link

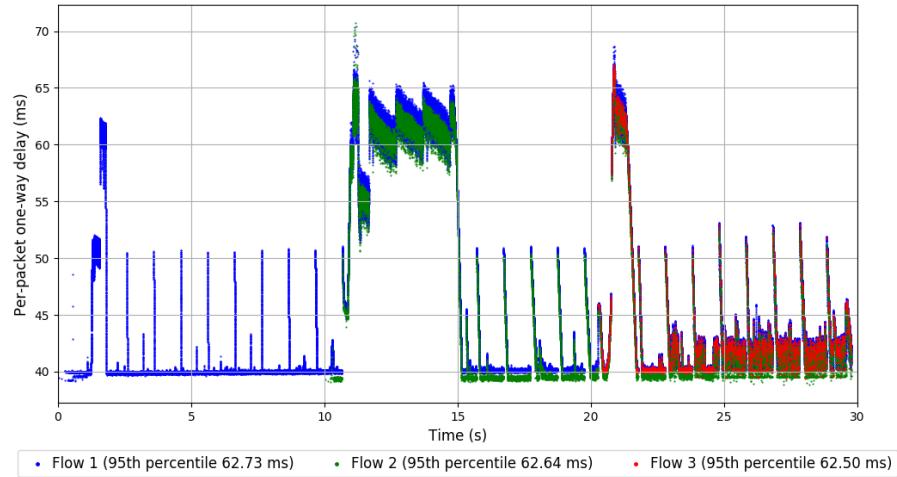
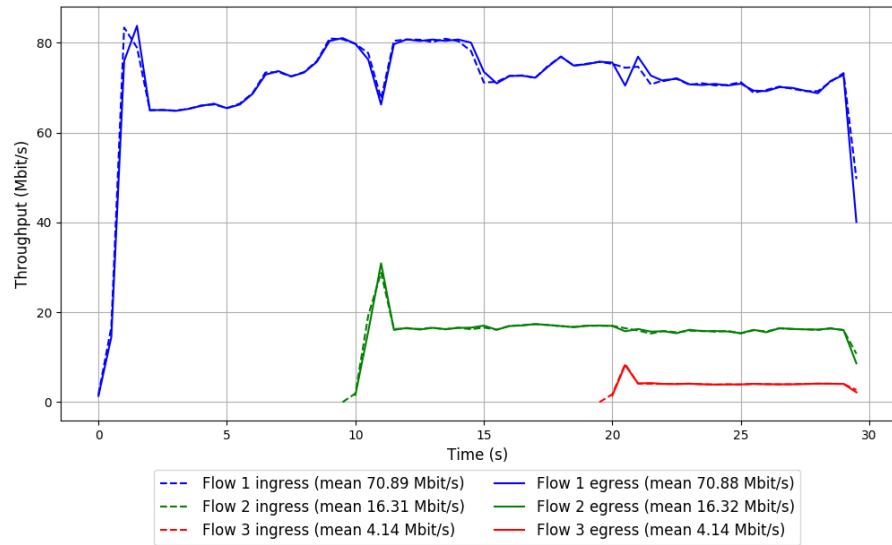


Run 10: Statistics of PCC

```
Start at: 2018-03-27 17:59:30
End at: 2018-03-27 18:00:00
Local clock offset: 5.325 ms
Remote clock offset: -10.963 ms

# Below is generated by plot.py at 2018-03-27 22:17:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.08 Mbit/s
95th percentile per-packet one-way delay: 62.715 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 70.88 Mbit/s
95th percentile per-packet one-way delay: 62.730 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 16.32 Mbit/s
95th percentile per-packet one-way delay: 62.642 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 4.14 Mbit/s
95th percentile per-packet one-way delay: 62.496 ms
Loss rate: 1.07%
```

## Run 10: Report of PCC — Data Link

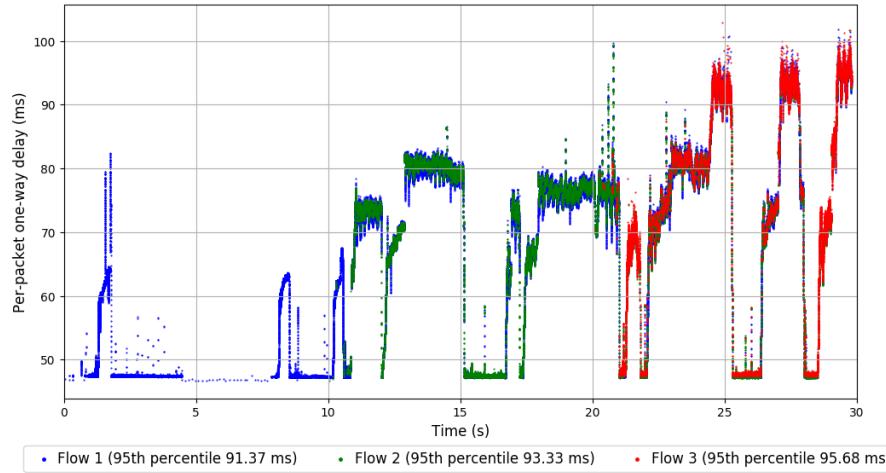
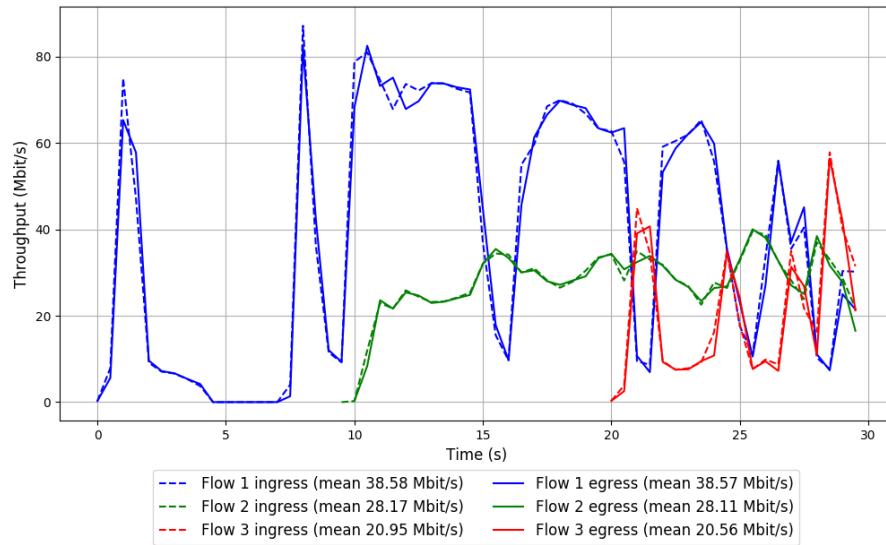


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-03-27 14:24:03
End at: 2018-03-27 14:24:33
Local clock offset: -1.904 ms
Remote clock offset: 11.938 ms

# Below is generated by plot.py at 2018-03-27 22:17:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 63.94 Mbit/s
95th percentile per-packet one-way delay: 93.295 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 38.57 Mbit/s
95th percentile per-packet one-way delay: 91.369 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 28.11 Mbit/s
95th percentile per-packet one-way delay: 93.328 ms
Loss rate: 0.93%
-- Flow 3:
Average throughput: 20.56 Mbit/s
95th percentile per-packet one-way delay: 95.682 ms
Loss rate: 4.01%
```

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

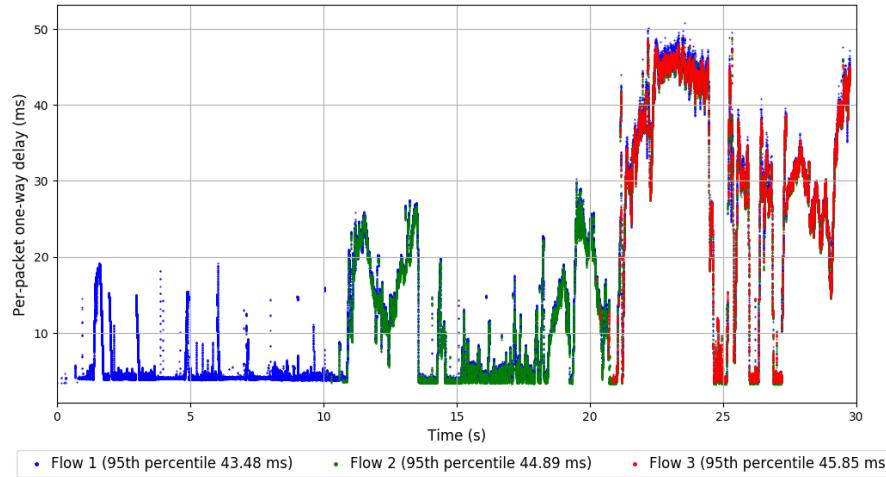
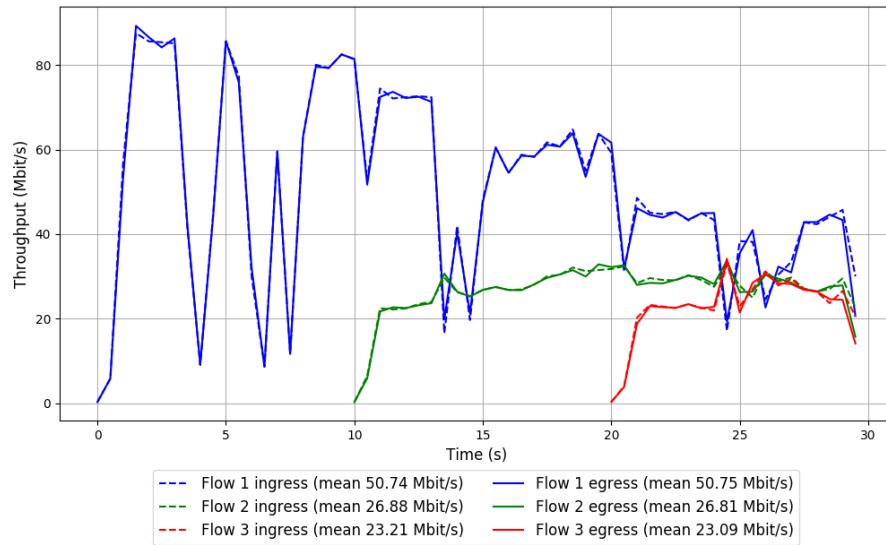


Run 2: Statistics of QUIC Cubic

```
Start at: 2018-03-27 14:47:55
End at: 2018-03-27 14:48:25
Local clock offset: -1.135 ms
Remote clock offset: 29.698 ms

# Below is generated by plot.py at 2018-03-27 22:17:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.07 Mbit/s
95th percentile per-packet one-way delay: 44.544 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 50.75 Mbit/s
95th percentile per-packet one-way delay: 43.476 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 26.81 Mbit/s
95th percentile per-packet one-way delay: 44.888 ms
Loss rate: 0.93%
-- Flow 3:
Average throughput: 23.09 Mbit/s
95th percentile per-packet one-way delay: 45.855 ms
Loss rate: 2.03%
```

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

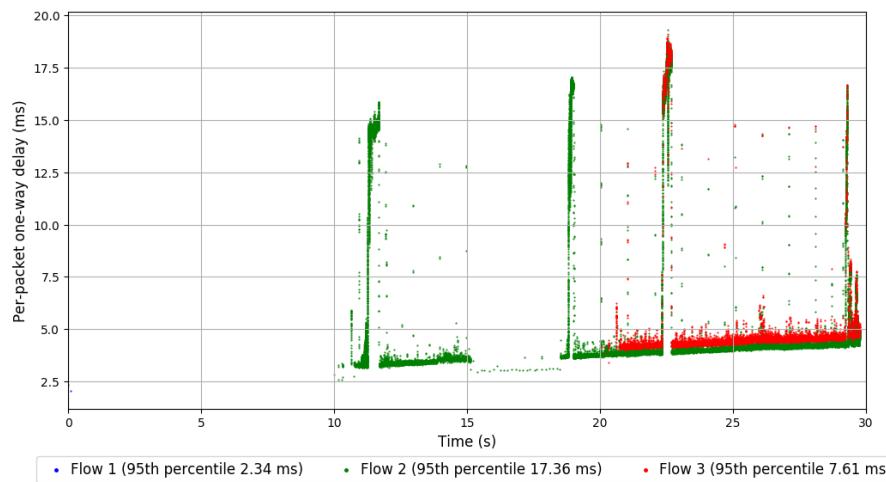
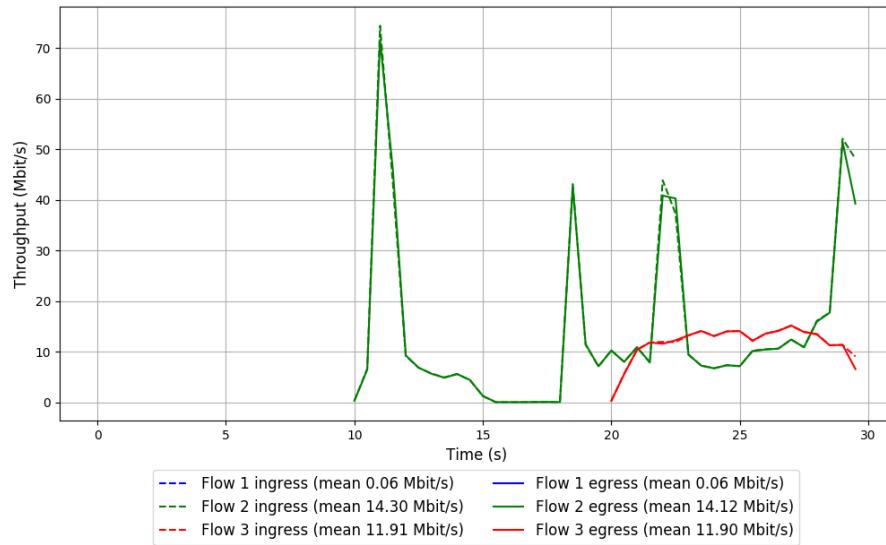


Run 3: Statistics of QUIC Cubic

```
Start at: 2018-03-27 15:13:02
End at: 2018-03-27 15:13:32
Local clock offset: -0.37 ms
Remote clock offset: 39.932 ms

# Below is generated by plot.py at 2018-03-27 22:17:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.26 Mbit/s
95th percentile per-packet one-way delay: 16.903 ms
Loss rate: 1.63%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 2.343 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 14.12 Mbit/s
95th percentile per-packet one-way delay: 17.364 ms
Loss rate: 1.82%
-- Flow 3:
Average throughput: 11.90 Mbit/s
95th percentile per-packet one-way delay: 7.607 ms
Loss rate: 1.18%
```

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

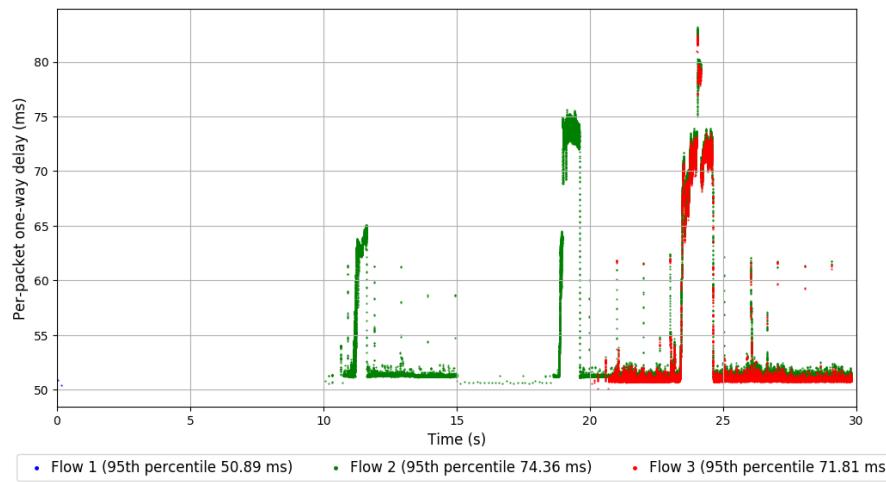
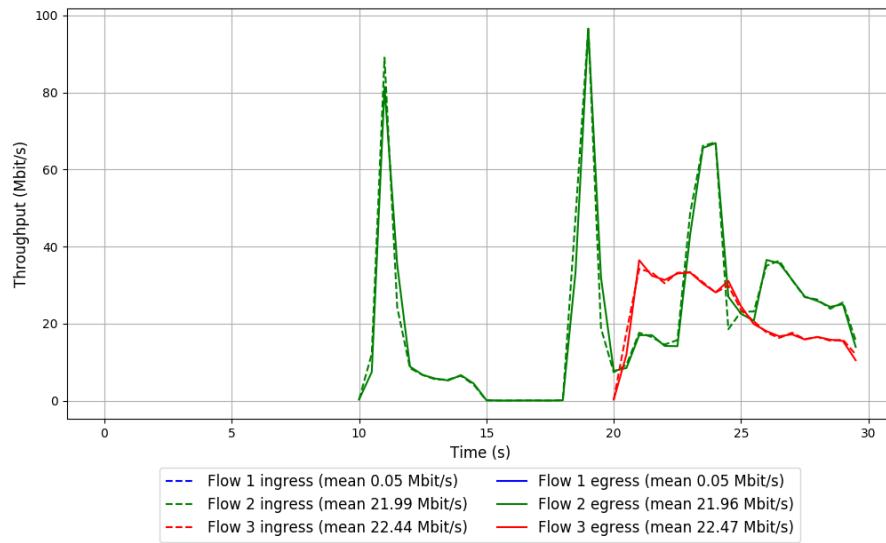


Run 4: Statistics of QUIC Cubic

```
Start at: 2018-03-27 15:37:55
End at: 2018-03-27 15:38:25
Local clock offset: 2.28 ms
Remote clock offset: 27.233 ms

# Below is generated by plot.py at 2018-03-27 22:17:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 21.94 Mbit/s
95th percentile per-packet one-way delay: 74.104 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 50.891 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 21.96 Mbit/s
95th percentile per-packet one-way delay: 74.357 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 22.47 Mbit/s
95th percentile per-packet one-way delay: 71.815 ms
Loss rate: 0.91%
```

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

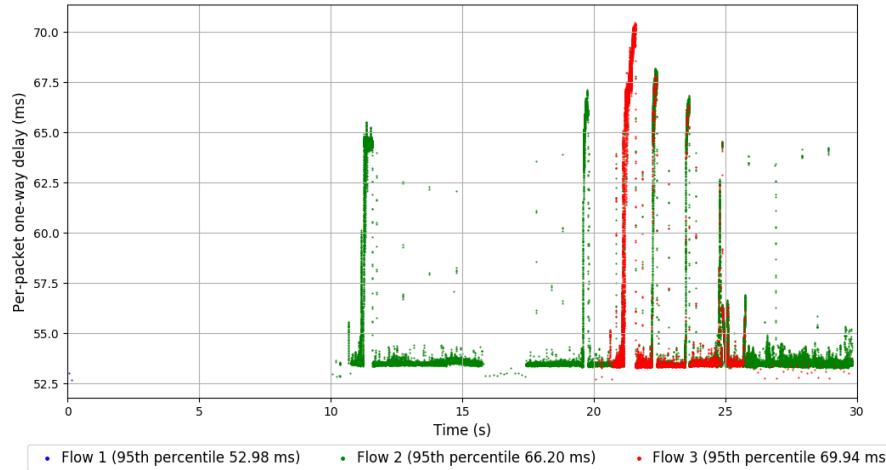
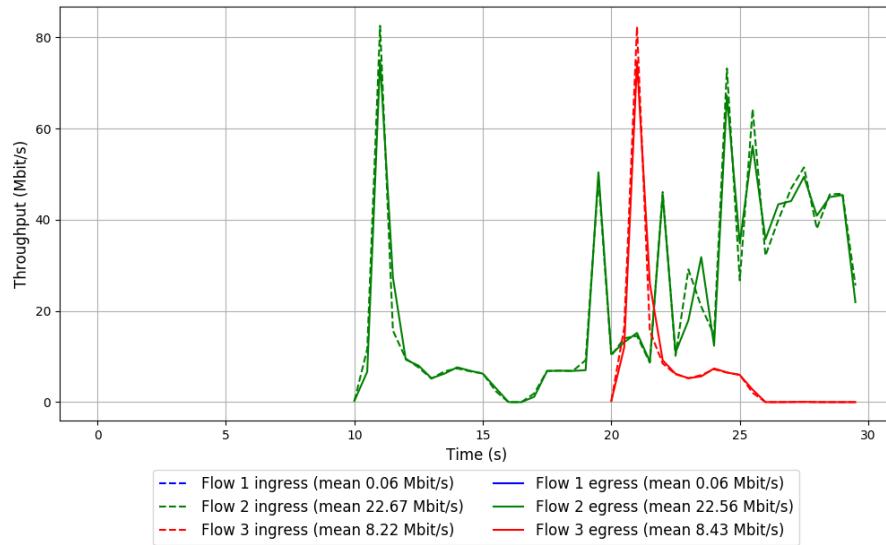


Run 5: Statistics of QUIC Cubic

```
Start at: 2018-03-27 16:01:37
End at: 2018-03-27 16:02:07
Local clock offset: 9.011 ms
Remote clock offset: 11.606 ms

# Below is generated by plot.py at 2018-03-27 22:17:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 17.70 Mbit/s
95th percentile per-packet one-way delay: 67.339 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 52.979 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 22.56 Mbit/s
95th percentile per-packet one-way delay: 66.201 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 8.43 Mbit/s
95th percentile per-packet one-way delay: 69.945 ms
Loss rate: 0.07%
```

Run 5: Report of QUIC Cubic — Data Link

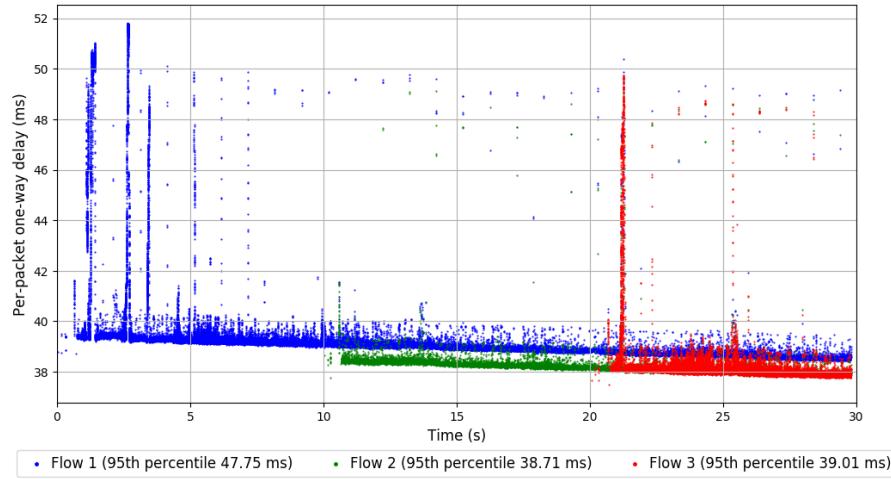
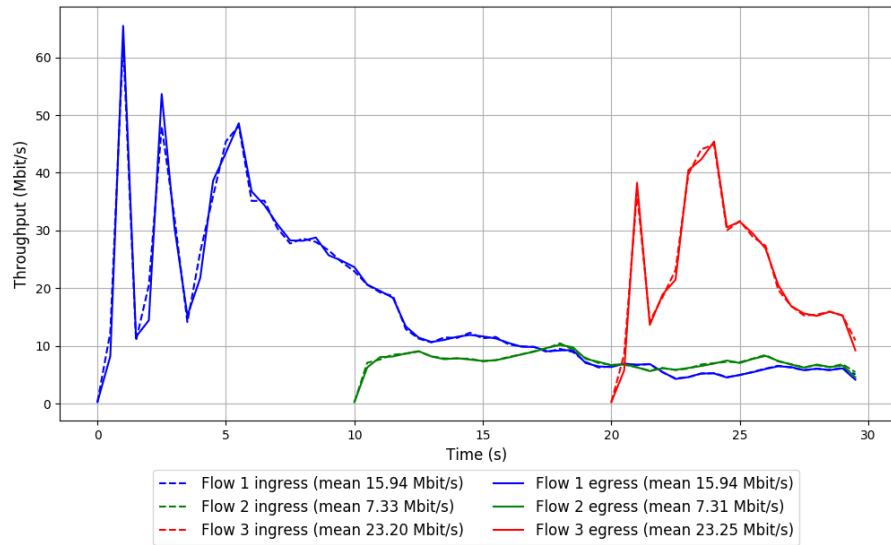


Run 6: Statistics of QUIC Cubic

```
Start at: 2018-03-27 16:27:13
End at: 2018-03-27 16:27:43
Local clock offset: 9.516 ms
Remote clock offset: -5.811 ms

# Below is generated by plot.py at 2018-03-27 22:17:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 28.42 Mbit/s
95th percentile per-packet one-way delay: 43.731 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 15.94 Mbit/s
95th percentile per-packet one-way delay: 47.751 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 7.31 Mbit/s
95th percentile per-packet one-way delay: 38.714 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 23.25 Mbit/s
95th percentile per-packet one-way delay: 39.012 ms
Loss rate: 0.82%
```

Run 6: Report of QUIC Cubic — Data Link

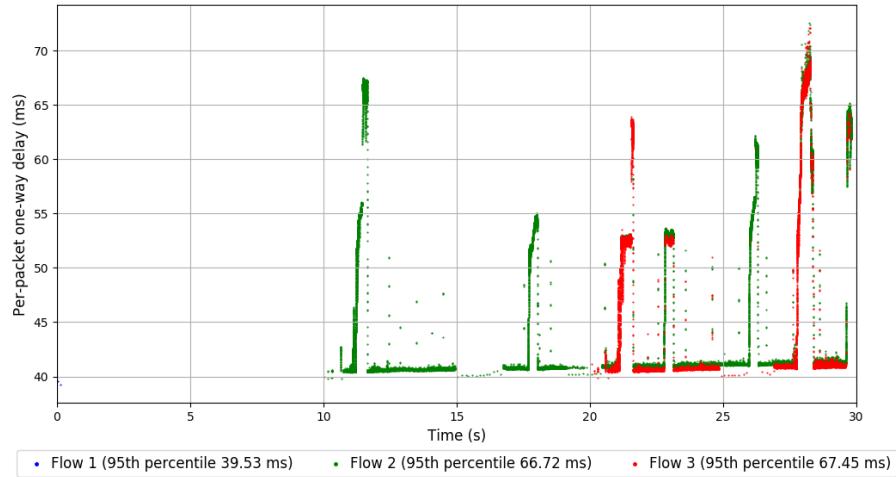
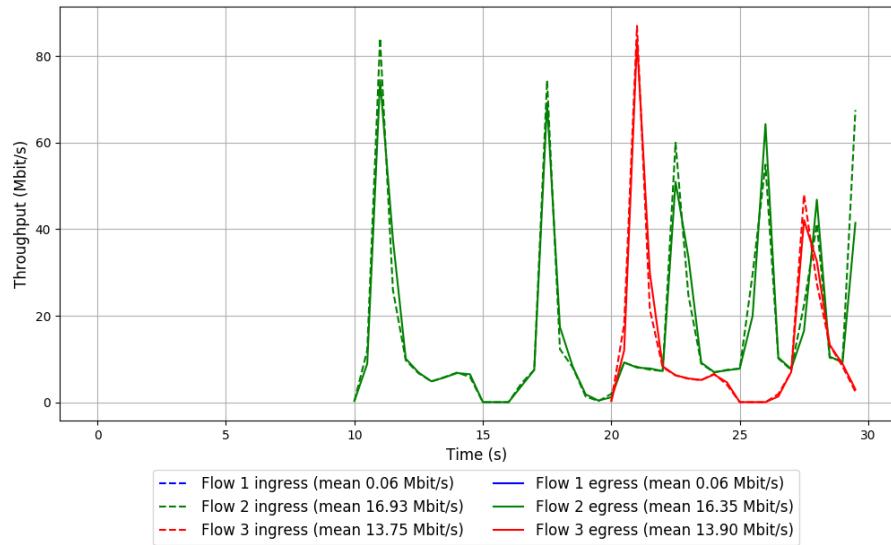


Run 7: Statistics of QUIC Cubic

```
Start at: 2018-03-27 16:51:39
End at: 2018-03-27 16:52:09
Local clock offset: 2.983 ms
Remote clock offset: -27.749 ms

# Below is generated by plot.py at 2018-03-27 22:17:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.39 Mbit/s
95th percentile per-packet one-way delay: 66.868 ms
Loss rate: 2.88%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 39.535 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 16.35 Mbit/s
95th percentile per-packet one-way delay: 66.715 ms
Loss rate: 4.04%
-- Flow 3:
Average throughput: 13.90 Mbit/s
95th percentile per-packet one-way delay: 67.452 ms
Loss rate: 0.00%
```

Run 7: Report of QUIC Cubic — Data Link

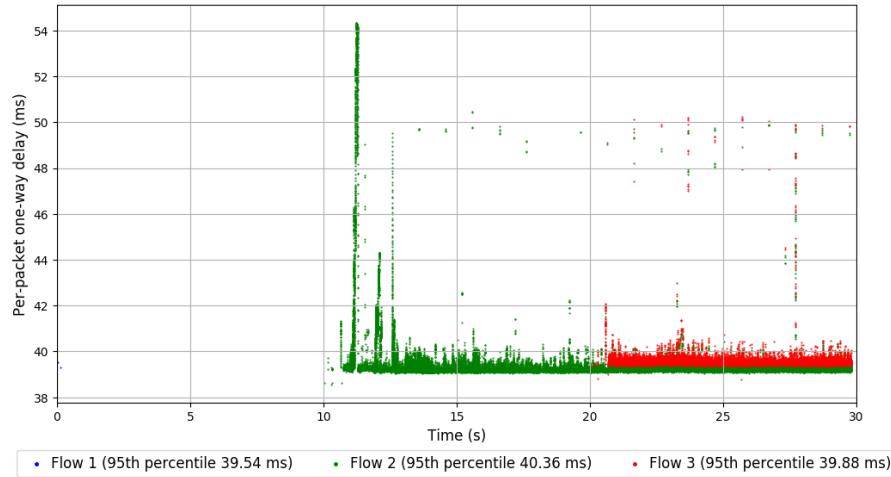
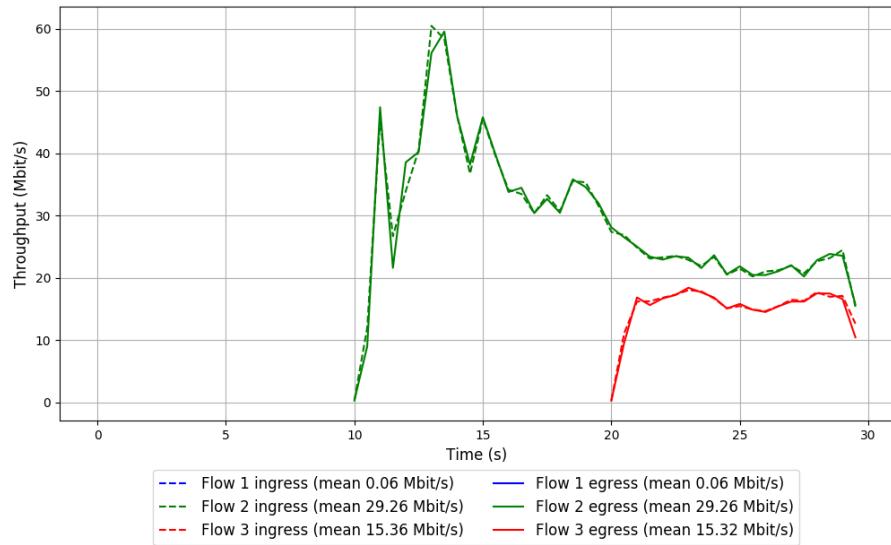


Run 8: Statistics of QUIC Cubic

```
Start at: 2018-03-27 17:15:12
End at: 2018-03-27 17:15:42
Local clock offset: -4.318 ms
Remote clock offset: -17.727 ms

# Below is generated by plot.py at 2018-03-27 22:17:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 24.45 Mbit/s
95th percentile per-packet one-way delay: 40.097 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 39.537 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 29.26 Mbit/s
95th percentile per-packet one-way delay: 40.357 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 15.32 Mbit/s
95th percentile per-packet one-way delay: 39.880 ms
Loss rate: 1.29%
```

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

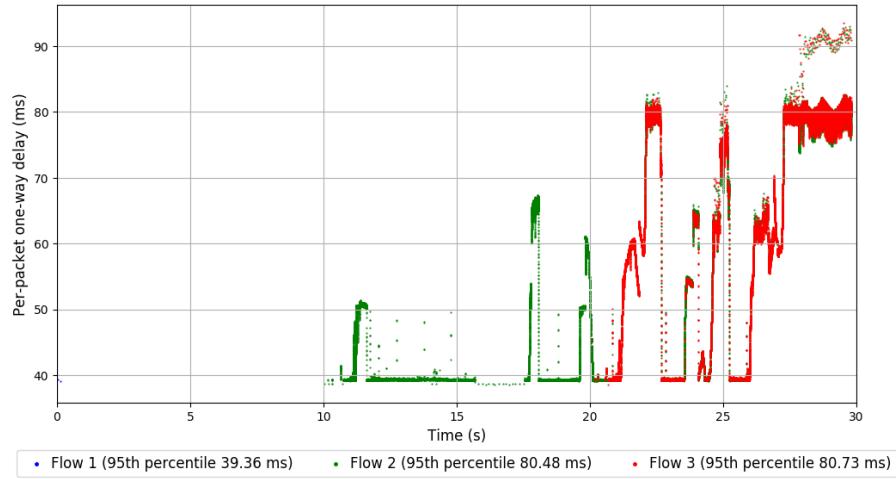
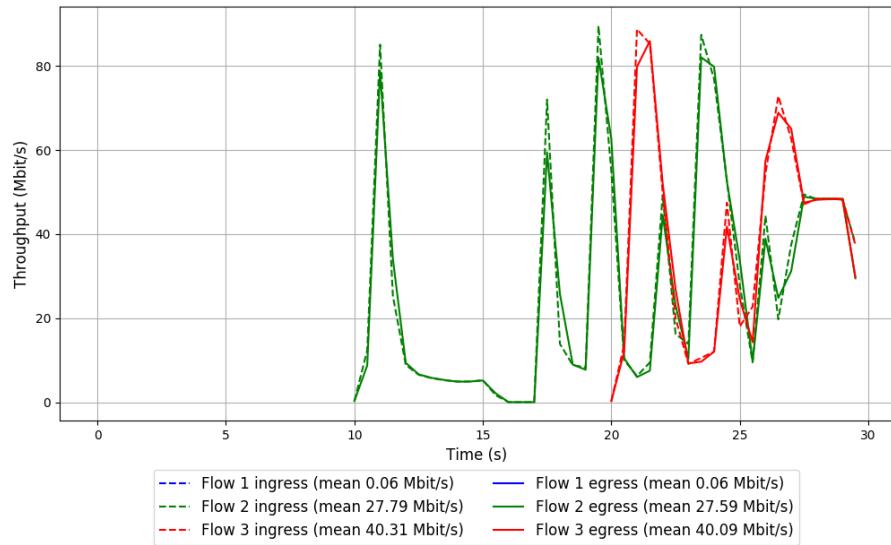


Run 9: Statistics of QUIC Cubic

```
Start at: 2018-03-27 17:39:11
End at: 2018-03-27 17:39:41
Local clock offset: 7.743 ms
Remote clock offset: -11.674 ms

# Below is generated by plot.py at 2018-03-27 22:18:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 31.44 Mbit/s
95th percentile per-packet one-way delay: 80.600 ms
Loss rate: 1.65%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 39.356 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 27.59 Mbit/s
95th percentile per-packet one-way delay: 80.484 ms
Loss rate: 1.44%
-- Flow 3:
Average throughput: 40.09 Mbit/s
95th percentile per-packet one-way delay: 80.732 ms
Loss rate: 1.94%
```

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

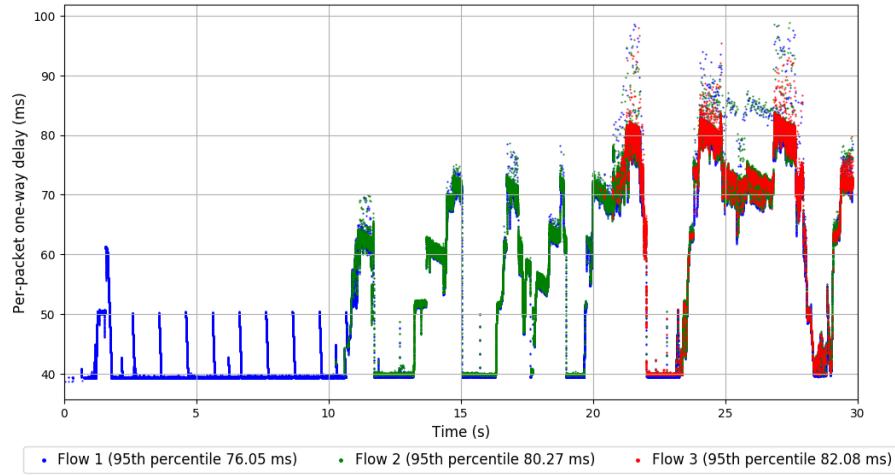
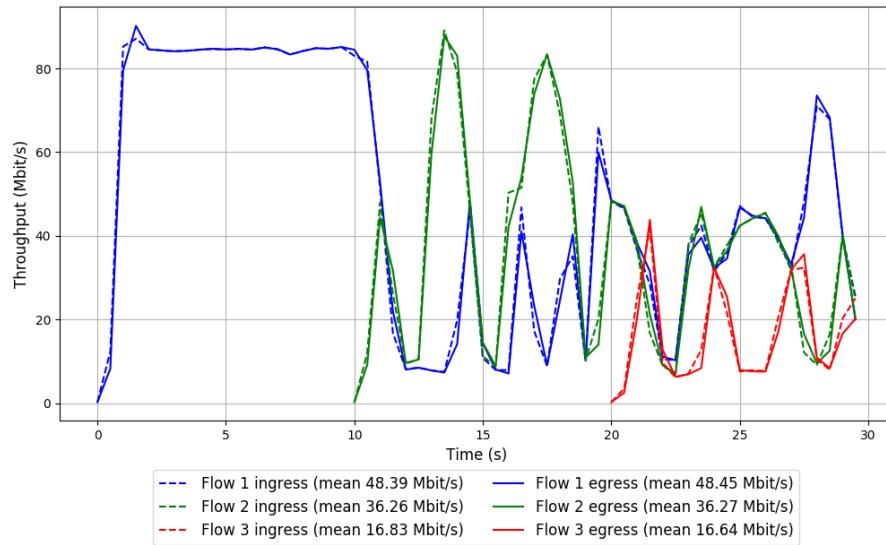


Run 10: Statistics of QUIC Cubic

```
Start at: 2018-03-27 18:01:57
End at: 2018-03-27 18:02:27
Local clock offset: 4.49 ms
Remote clock offset: -10.383 ms

# Below is generated by plot.py at 2018-03-27 22:18:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.95 Mbit/s
95th percentile per-packet one-way delay: 80.013 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 48.45 Mbit/s
95th percentile per-packet one-way delay: 76.051 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 36.27 Mbit/s
95th percentile per-packet one-way delay: 80.274 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 16.64 Mbit/s
95th percentile per-packet one-way delay: 82.075 ms
Loss rate: 2.79%
```

Run 10: Report of QUIC Cubic — Data Link

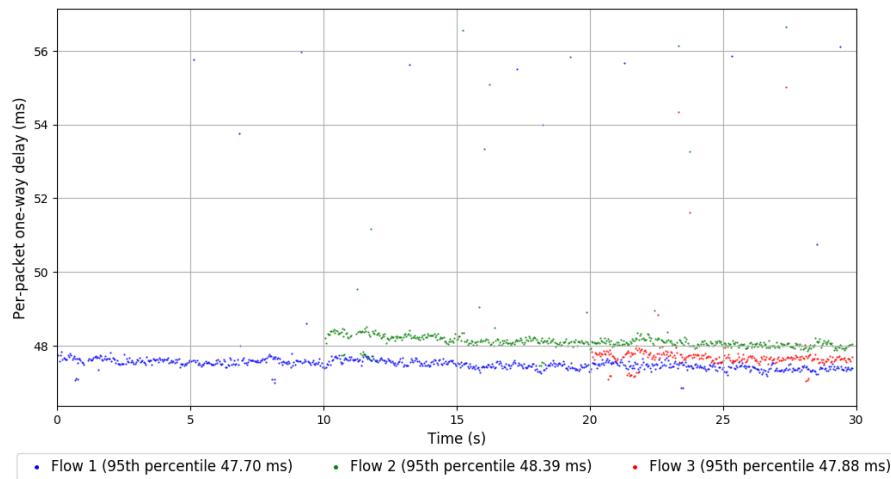
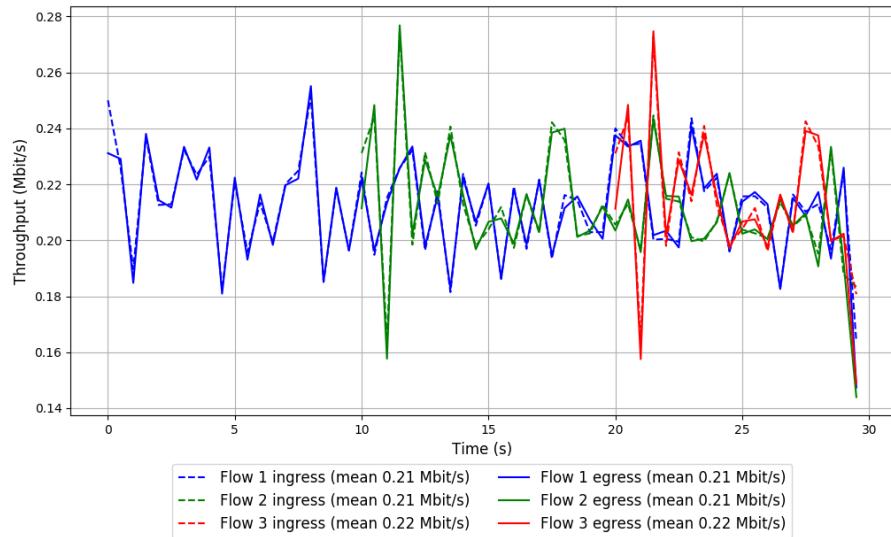


```
Run 1: Statistics of SCReAM

Start at: 2018-03-27 14:22:51
End at: 2018-03-27 14:23:21
Local clock offset: -1.772 ms
Remote clock offset: 12.072 ms

# Below is generated by plot.py at 2018-03-27 22:18:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 48.298 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 47.696 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 48.386 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.885 ms
Loss rate: 1.11%
```

Run 1: Report of SCReAM — Data Link

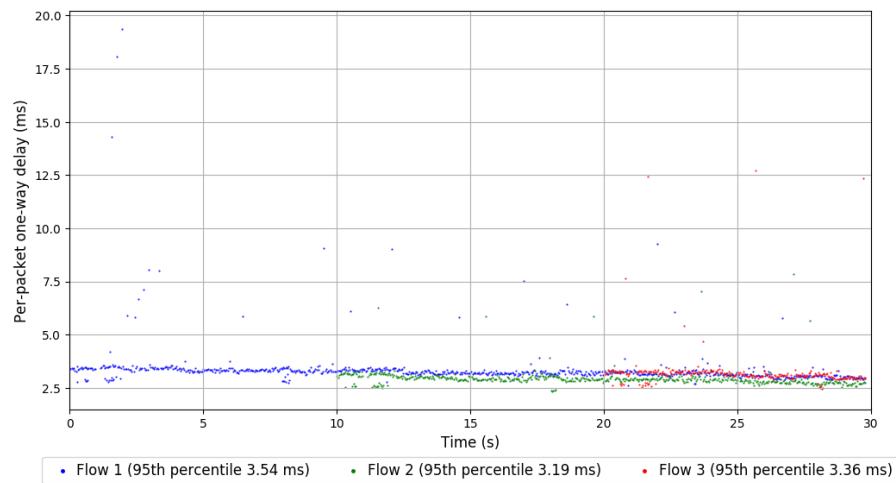
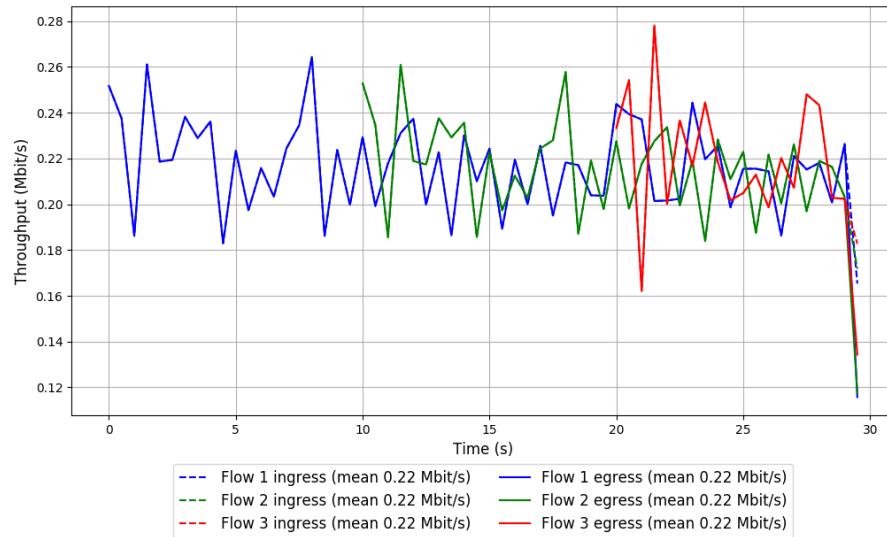


Run 2: Statistics of SCReAM

```
Start at: 2018-03-27 14:46:41
End at: 2018-03-27 14:47:11
Local clock offset: -1.055 ms
Remote clock offset: 31.346 ms

# Below is generated by plot.py at 2018-03-27 22:18:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 3.472 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.535 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.190 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.364 ms
Loss rate: 1.11%
```

Run 2: Report of SCReAM — Data Link

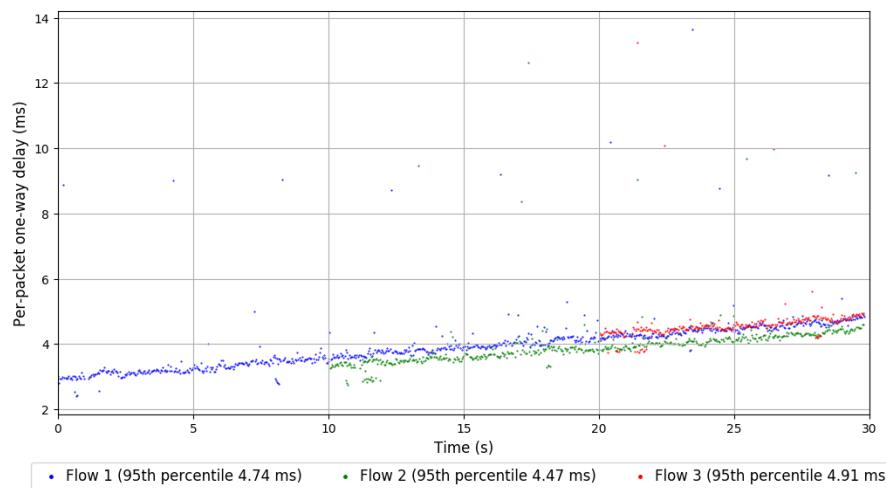
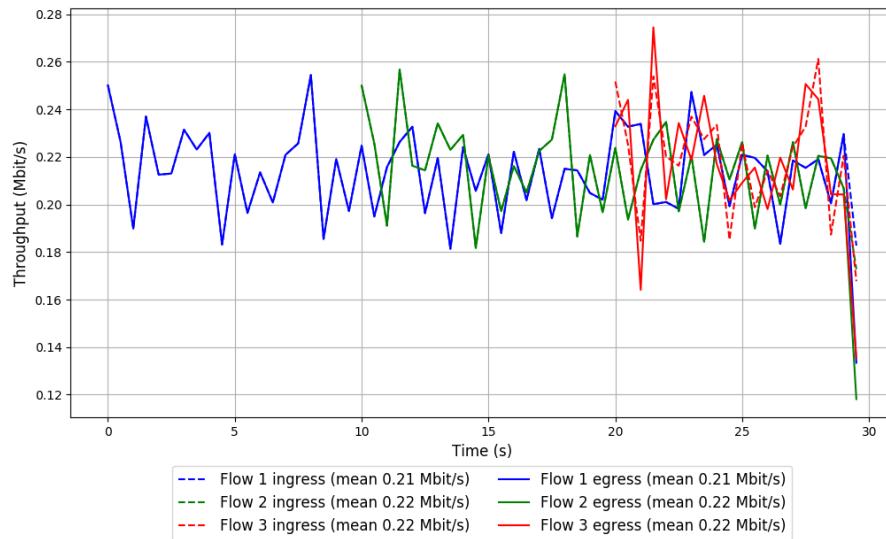


Run 3: Statistics of SCReAM

```
Start at: 2018-03-27 15:11:50
End at: 2018-03-27 15:12:20
Local clock offset: -0.394 ms
Remote clock offset: 35.569 ms

# Below is generated by plot.py at 2018-03-27 22:18:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 4.790 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 4.738 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 4.467 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 4.905 ms
Loss rate: 1.11%
```

Run 3: Report of SCReAM — Data Link

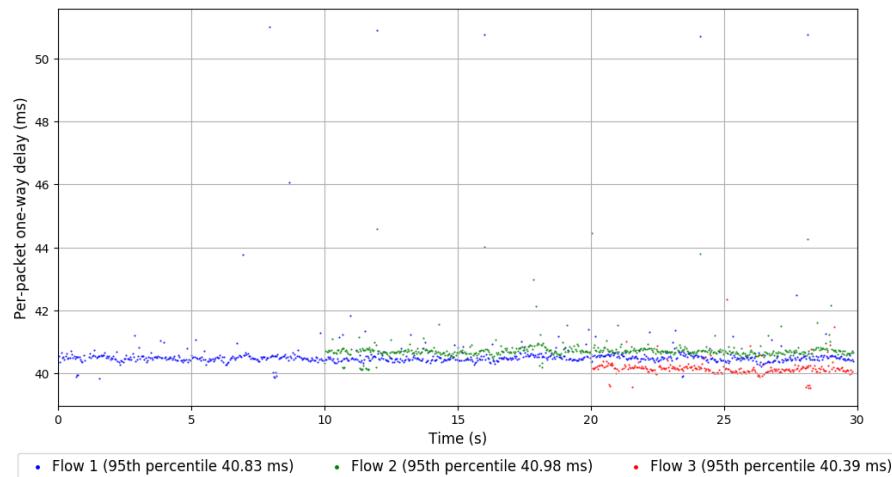
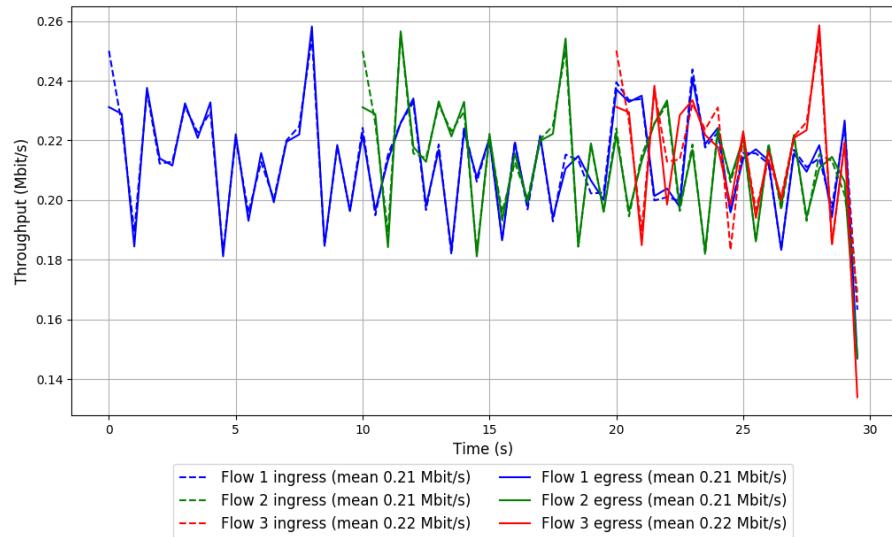


Run 4: Statistics of SCReAM

```
Start at: 2018-03-27 15:36:43
End at: 2018-03-27 15:37:13
Local clock offset: 1.442 ms
Remote clock offset: 37.113 ms

# Below is generated by plot.py at 2018-03-27 22:18:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 40.889 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 40.827 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 40.980 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 40.391 ms
Loss rate: 1.11%
```

Run 4: Report of SCReAM — Data Link

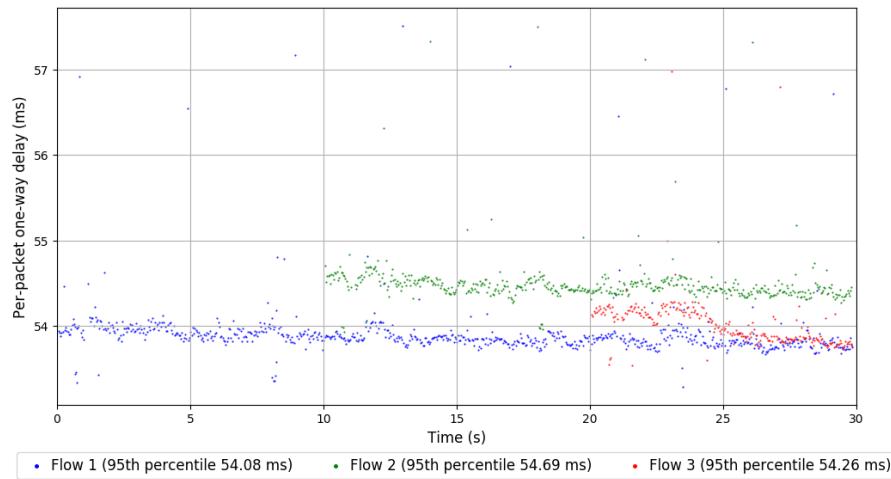
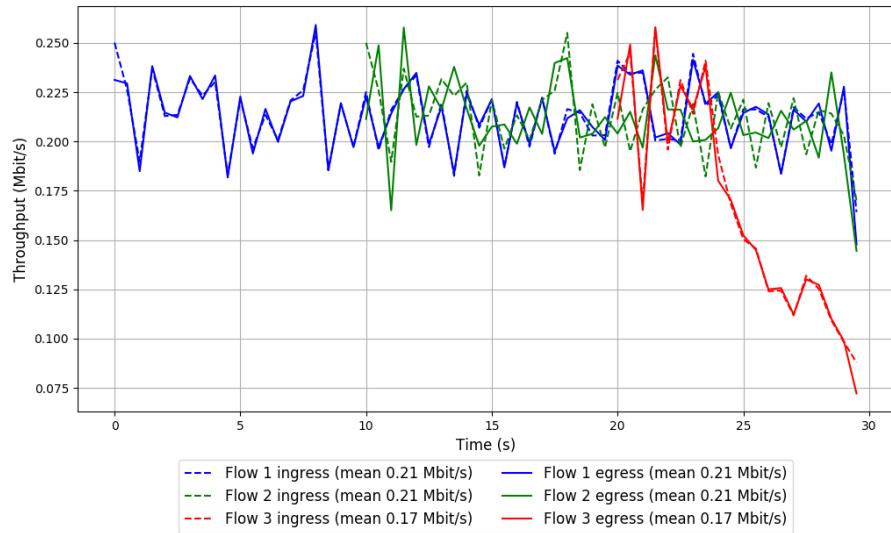


Run 5: Statistics of SCReAM

```
Start at: 2018-03-27 16:00:25
End at: 2018-03-27 16:00:55
Local clock offset: 9.021 ms
Remote clock offset: 10.812 ms

# Below is generated by plot.py at 2018-03-27 22:18:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 54.590 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.084 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.687 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 54.263 ms
Loss rate: 1.22%
```

Run 5: Report of SCReAM — Data Link

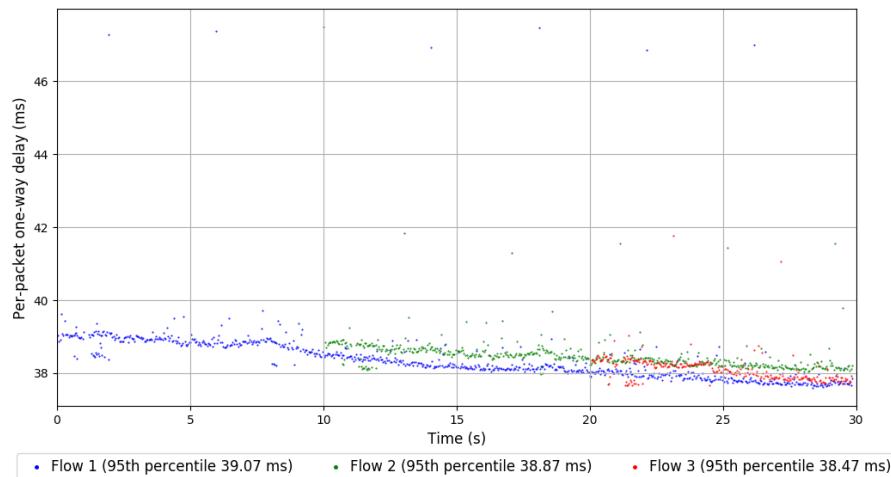
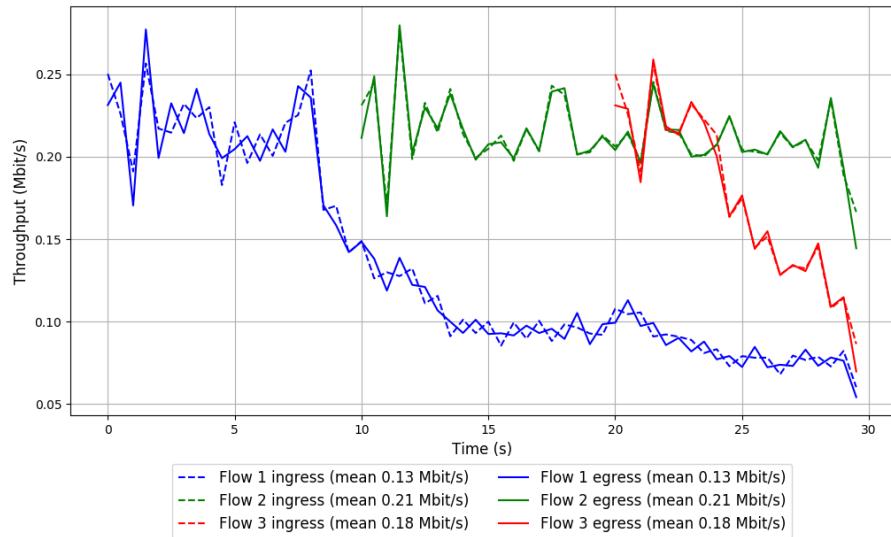


Run 6: Statistics of SCReAM

```
Start at: 2018-03-27 16:26:01
End at: 2018-03-27 16:26:31
Local clock offset: 9.45 ms
Remote clock offset: -3.58 ms

# Below is generated by plot.py at 2018-03-27 22:18:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 39.026 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 39.069 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 38.869 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 38.470 ms
Loss rate: 1.22%
```

Run 6: Report of SCReAM — Data Link

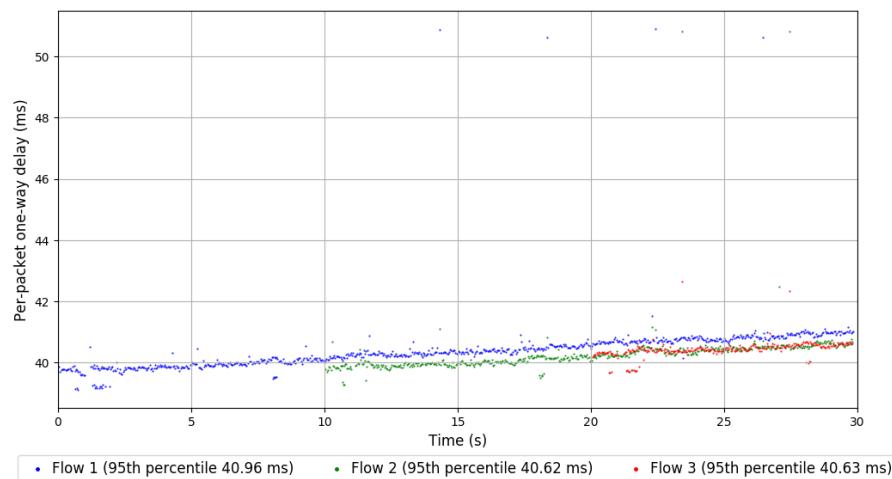
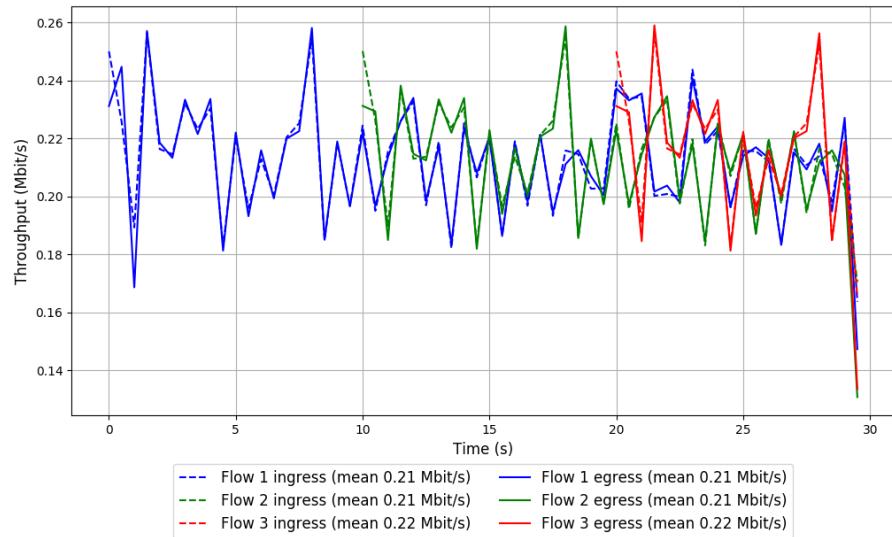


Run 7: Statistics of SCReAM

```
Start at: 2018-03-27 16:50:28
End at: 2018-03-27 16:50:58
Local clock offset: 3.62 ms
Remote clock offset: -29.844 ms

# Below is generated by plot.py at 2018-03-27 22:18:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 40.896 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 40.959 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 40.625 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 40.634 ms
Loss rate: 1.10%
```

Run 7: Report of SCReAM — Data Link

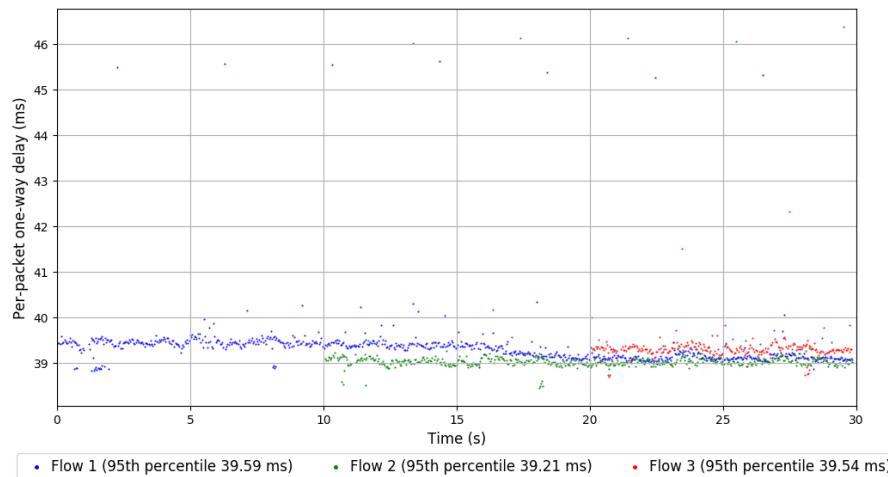
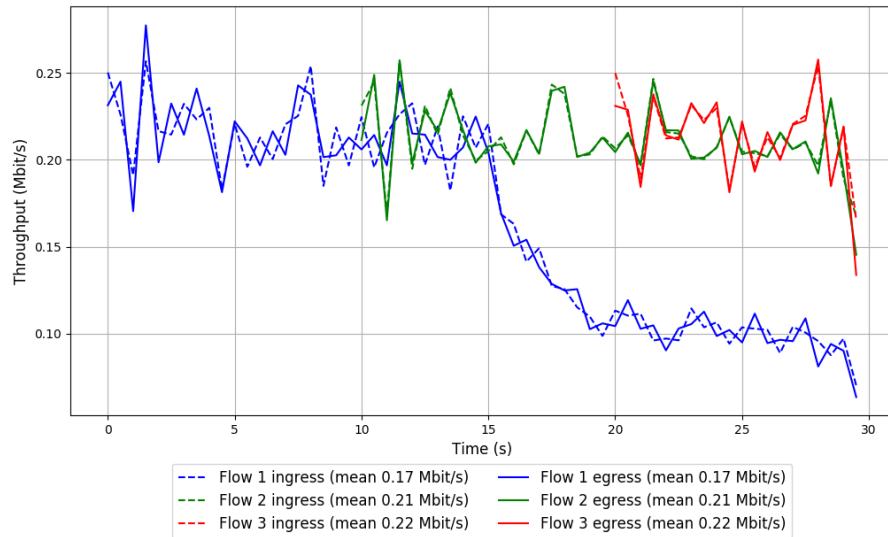


Run 8: Statistics of SCReAM

```
Start at: 2018-03-27 17:14:01
End at: 2018-03-27 17:14:31
Local clock offset: -4.216 ms
Remote clock offset: -17.496 ms

# Below is generated by plot.py at 2018-03-27 22:18:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 39.545 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 39.588 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 39.207 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 39.539 ms
Loss rate: 1.11%
```

Run 8: Report of SCReAM — Data Link

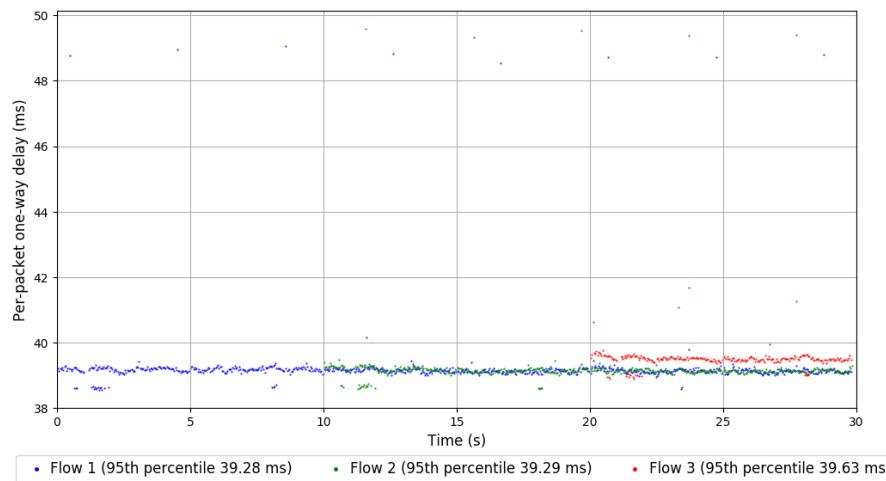
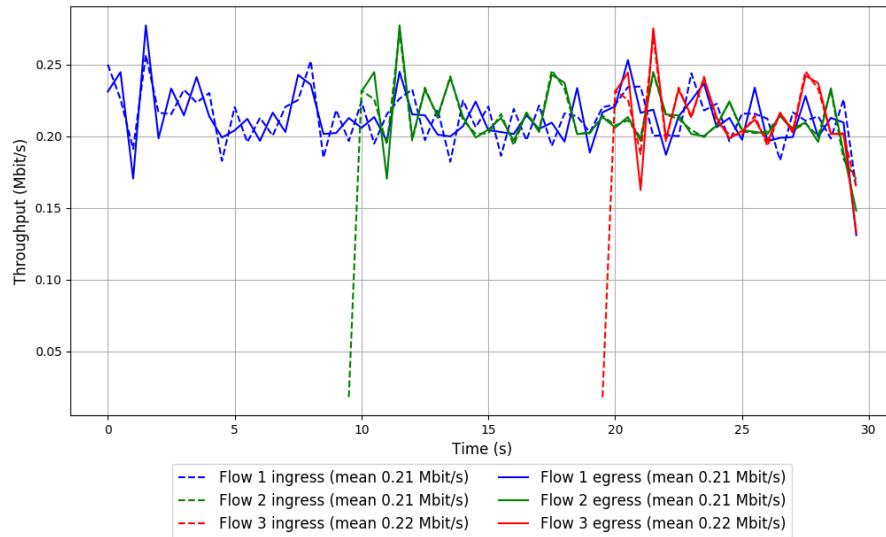


Run 9: Statistics of SCReAM

```
Start at: 2018-03-27 17:38:00
End at: 2018-03-27 17:38:30
Local clock offset: 7.417 ms
Remote clock offset: -11.921 ms

# Below is generated by plot.py at 2018-03-27 22:18:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 39.555 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 39.278 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 39.288 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 39.630 ms
Loss rate: 1.11%
```

Run 9: Report of SCReAM — Data Link

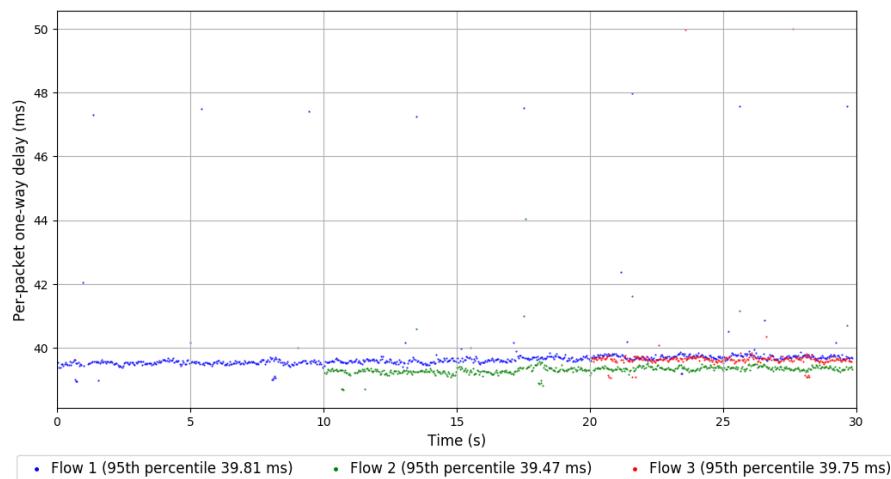
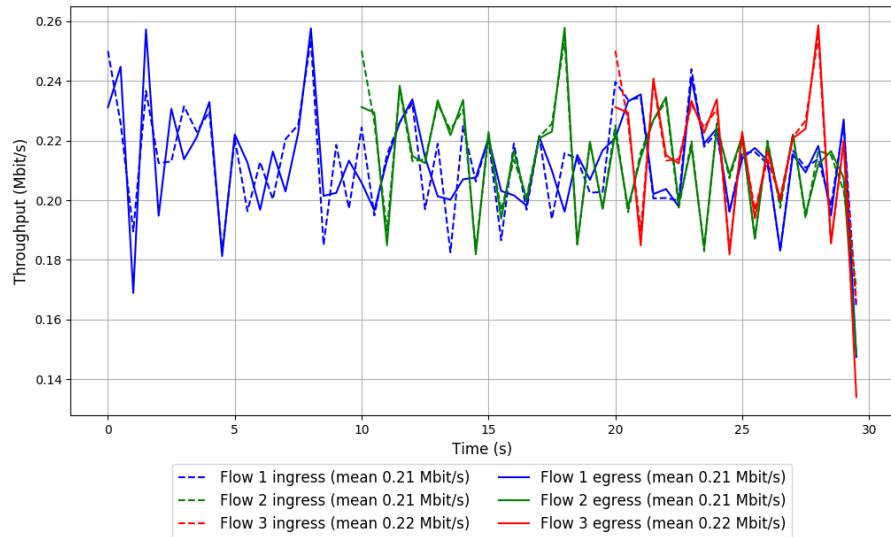


Run 10: Statistics of SCReAM

```
Start at: 2018-03-27 18:00:45
End at: 2018-03-27 18:01:15
Local clock offset: 4.806 ms
Remote clock offset: -10.7 ms

# Below is generated by plot.py at 2018-03-27 22:18:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 39.782 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 39.811 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 39.467 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 39.752 ms
Loss rate: 1.11%
```

Run 10: Report of SCReAM — Data Link

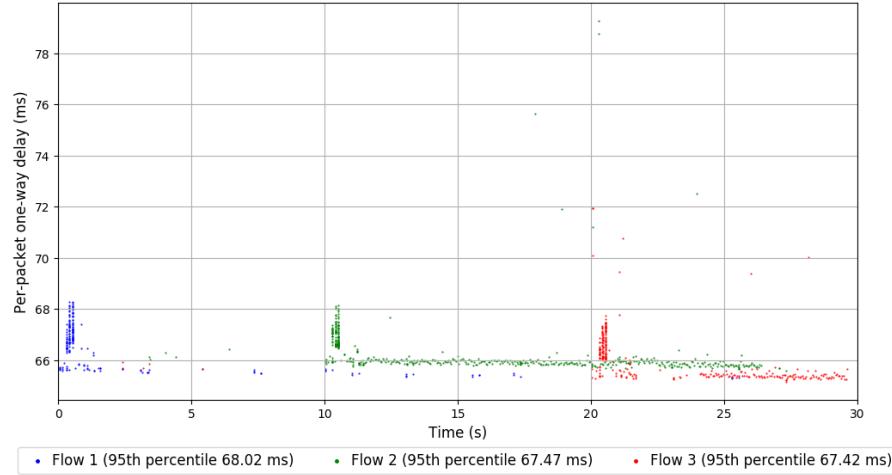
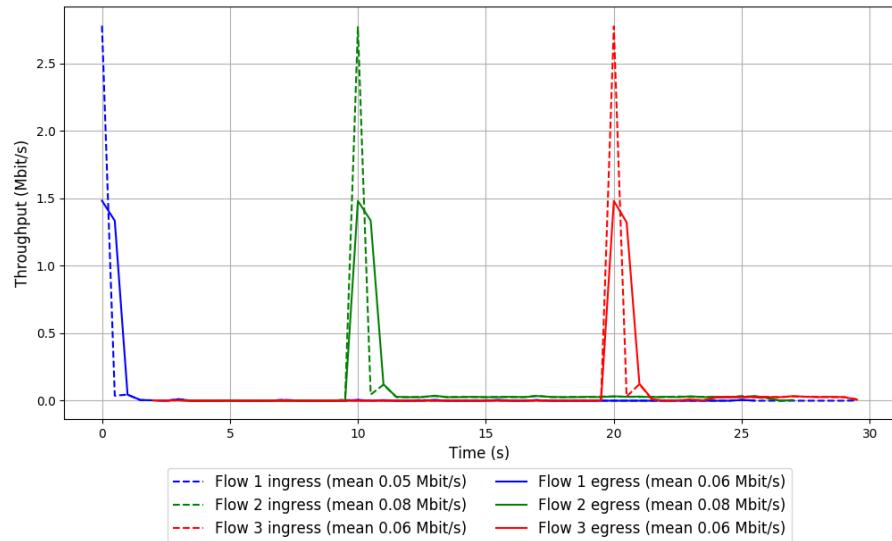


```
Run 1: Statistics of WebRTC media

Start at: 2018-03-27 14:25:20
End at: 2018-03-27 14:25:50
Local clock offset: -2.334 ms
Remote clock offset: -8.254 ms

# Below is generated by plot.py at 2018-03-27 22:18:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 67.698 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 68.022 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 67.473 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 67.421 ms
Loss rate: 0.16%
```

Run 1: Report of WebRTC media — Data Link

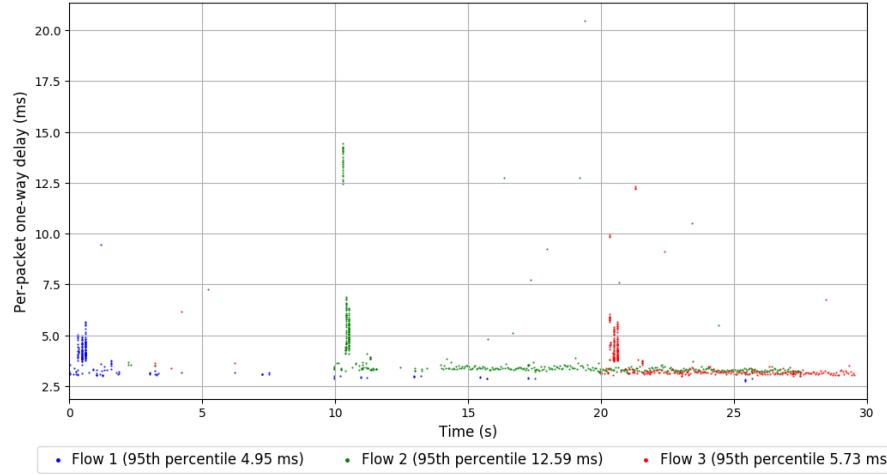
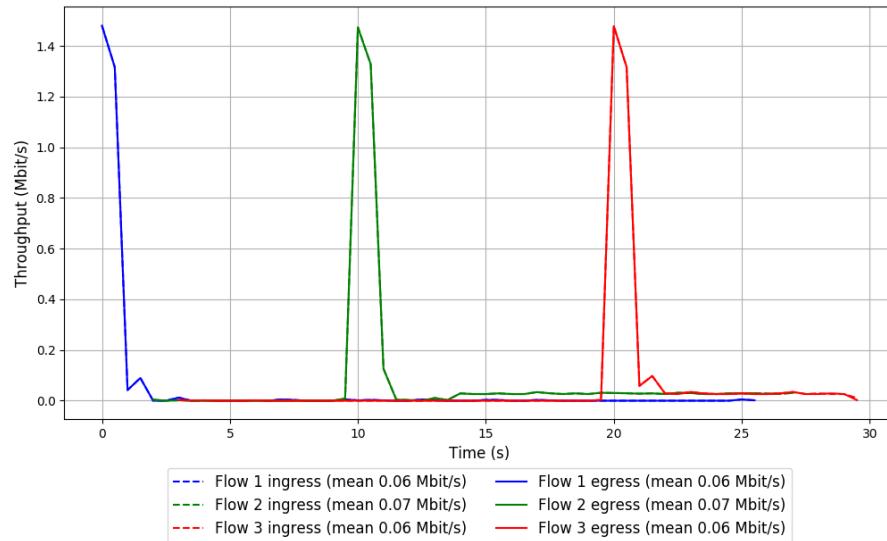


Run 2: Statistics of WebRTC media

```
Start at: 2018-03-27 14:49:14
End at: 2018-03-27 14:49:44
Local clock offset: -1.008 ms
Remote clock offset: 28.655 ms

# Below is generated by plot.py at 2018-03-27 22:18:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 6.264 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 4.954 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 12.588 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 5.727 ms
Loss rate: 0.23%
```

Run 2: Report of WebRTC media — Data Link

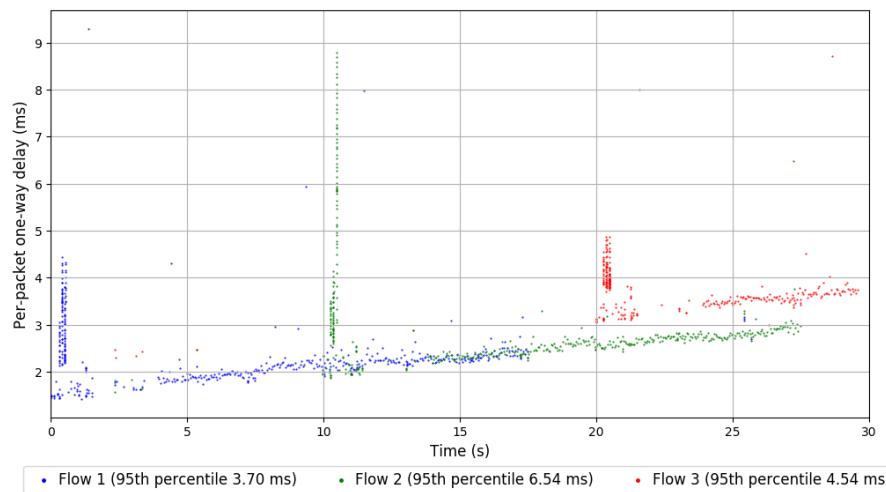
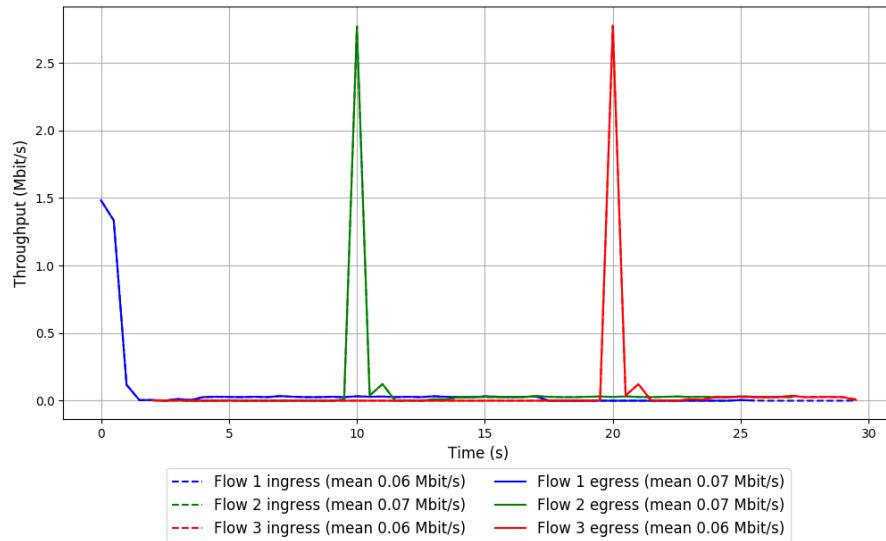


Run 3: Statistics of WebRTC media

```
Start at: 2018-03-27 15:14:15
End at: 2018-03-27 15:14:45
Local clock offset: -0.53 ms
Remote clock offset: 44.212 ms

# Below is generated by plot.py at 2018-03-27 22:18:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 4.577 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 3.700 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 6.538 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 4.544 ms
Loss rate: 0.16%
```

### Run 3: Report of WebRTC media — Data Link

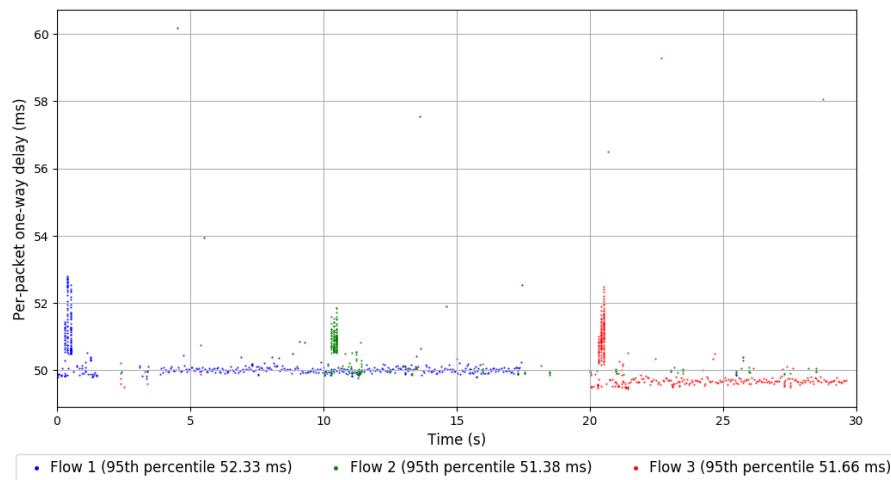
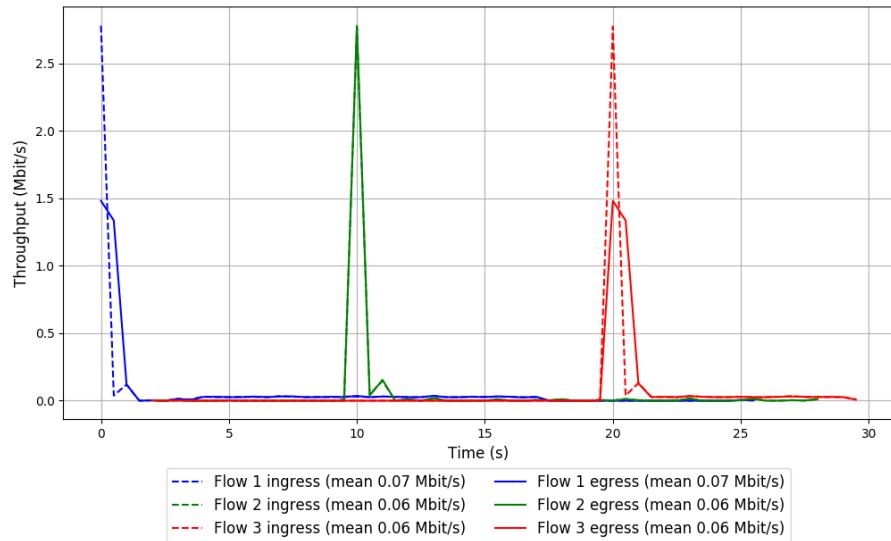


Run 4: Statistics of WebRTC media

```
Start at: 2018-03-27 15:39:10
End at: 2018-03-27 15:39:40
Local clock offset: 3.075 ms
Remote clock offset: 28.835 ms

# Below is generated by plot.py at 2018-03-27 22:18:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 51.725 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 52.325 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 51.381 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 51.655 ms
Loss rate: 0.15%
```

#### Run 4: Report of WebRTC media — Data Link

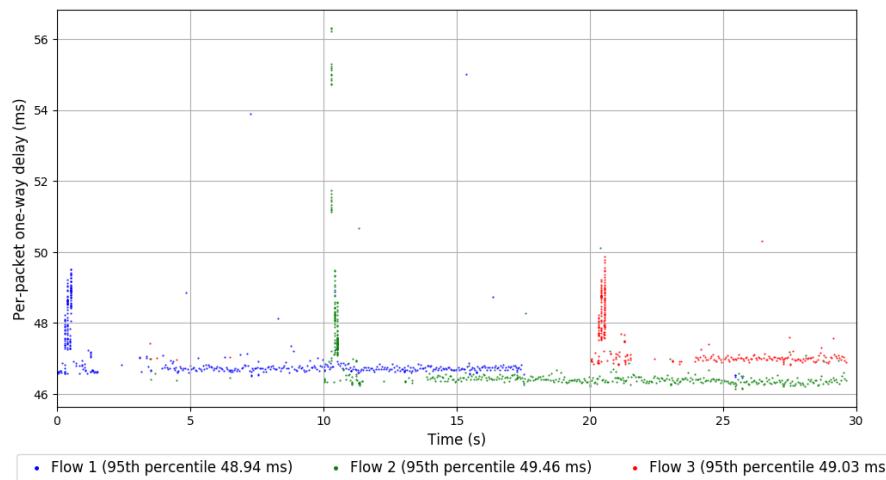
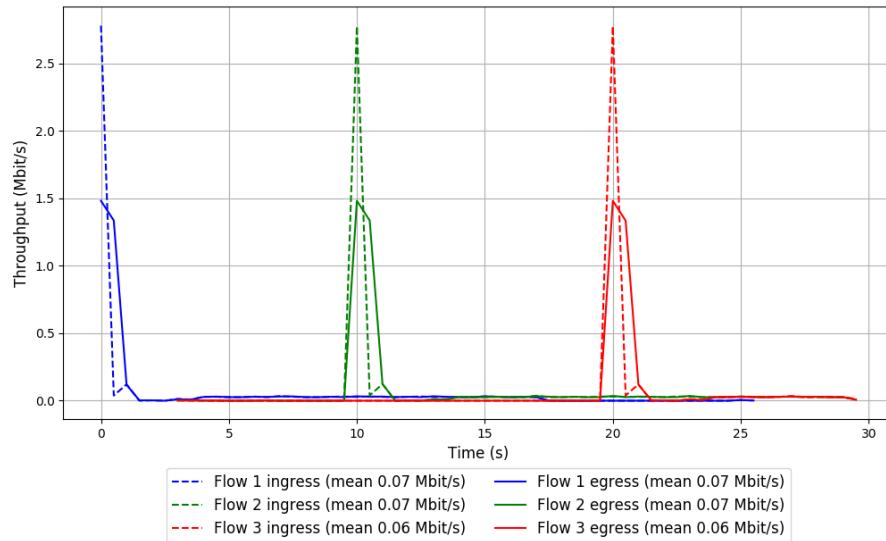


Run 5: Statistics of WebRTC media

```
Start at: 2018-03-27 16:02:51
End at: 2018-03-27 16:03:21
Local clock offset: 9.212 ms
Remote clock offset: 17.42 ms

# Below is generated by plot.py at 2018-03-27 22:18:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 49.031 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 48.940 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 49.459 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 49.031 ms
Loss rate: 0.24%
```

Run 5: Report of WebRTC media — Data Link

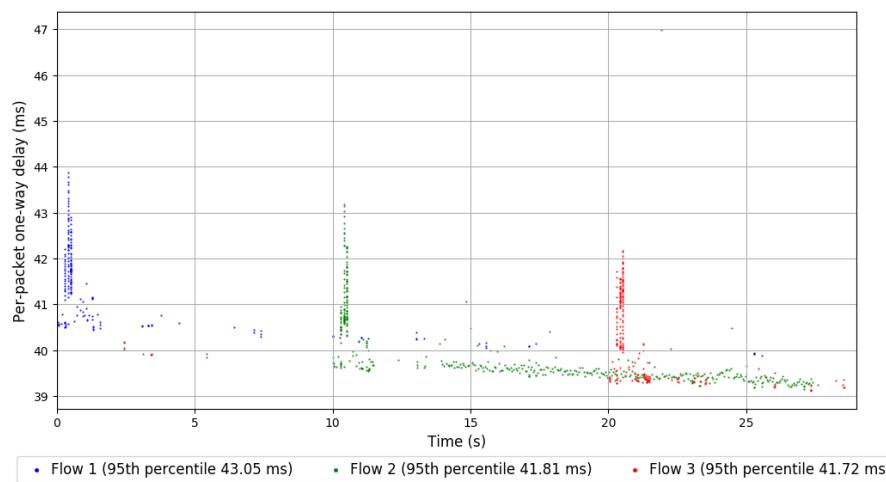
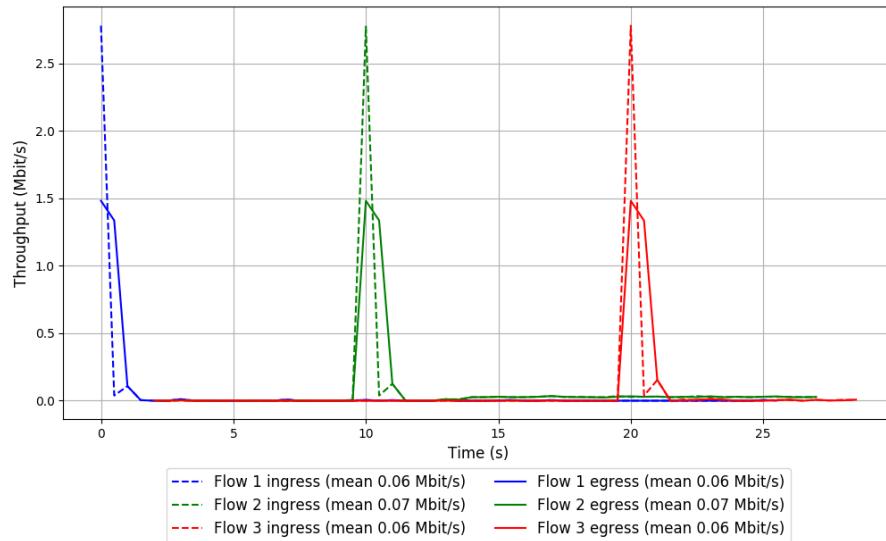


Run 6: Statistics of WebRTC media

```
Start at: 2018-03-27 16:28:31
End at: 2018-03-27 16:29:01
Local clock offset: 9.495 ms
Remote clock offset: -9.918 ms

# Below is generated by plot.py at 2018-03-27 22:18:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 42.306 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 43.050 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 41.809 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 41.722 ms
Loss rate: 0.00%
```

Run 6: Report of WebRTC media — Data Link

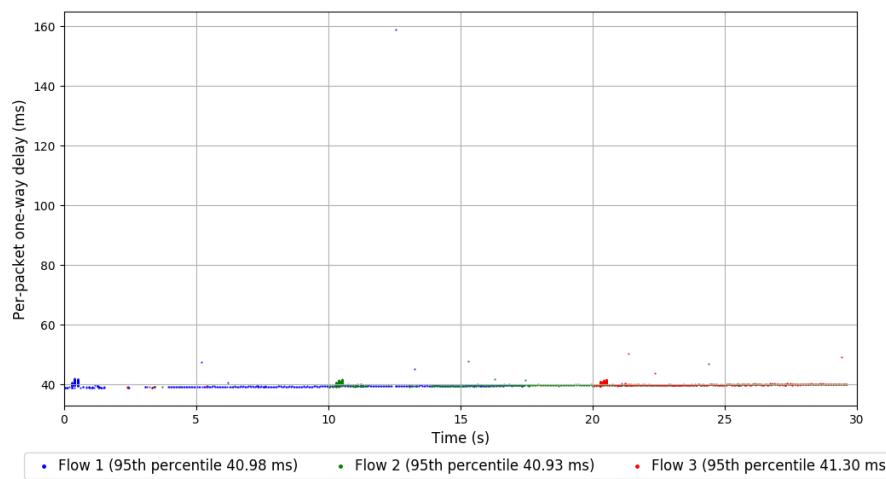
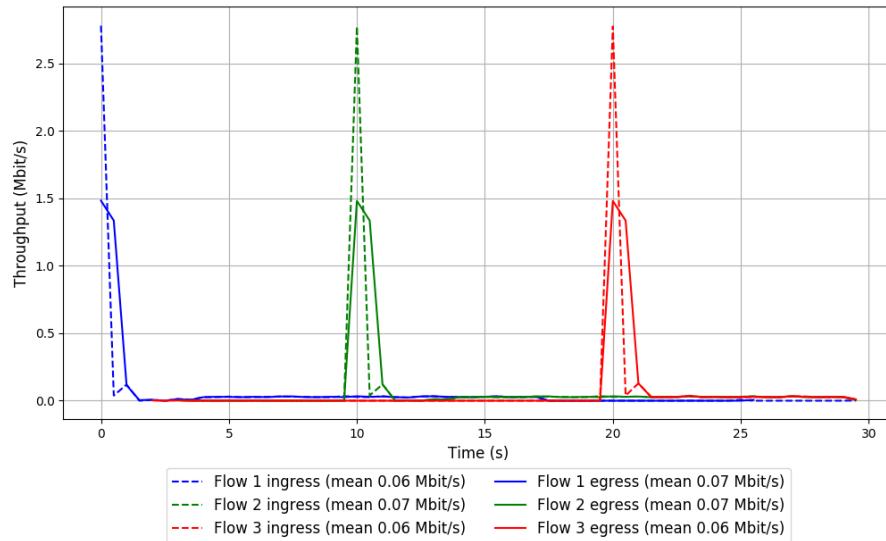


Run 7: Statistics of WebRTC media

```
Start at: 2018-03-27 16:52:52
End at: 2018-03-27 16:53:22
Local clock offset: 1.995 ms
Remote clock offset: -25.659 ms

# Below is generated by plot.py at 2018-03-27 22:18:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 41.023 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 40.977 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 40.930 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 41.304 ms
Loss rate: 0.15%
```

### Run 7: Report of WebRTC media — Data Link

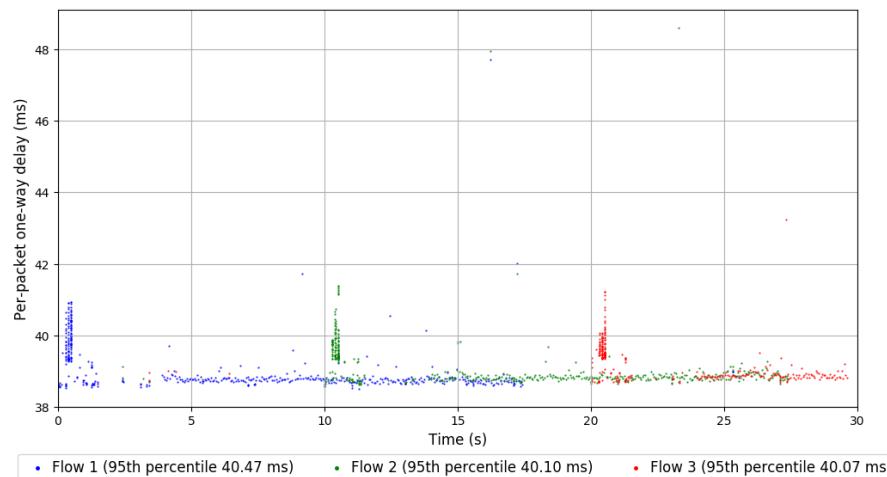
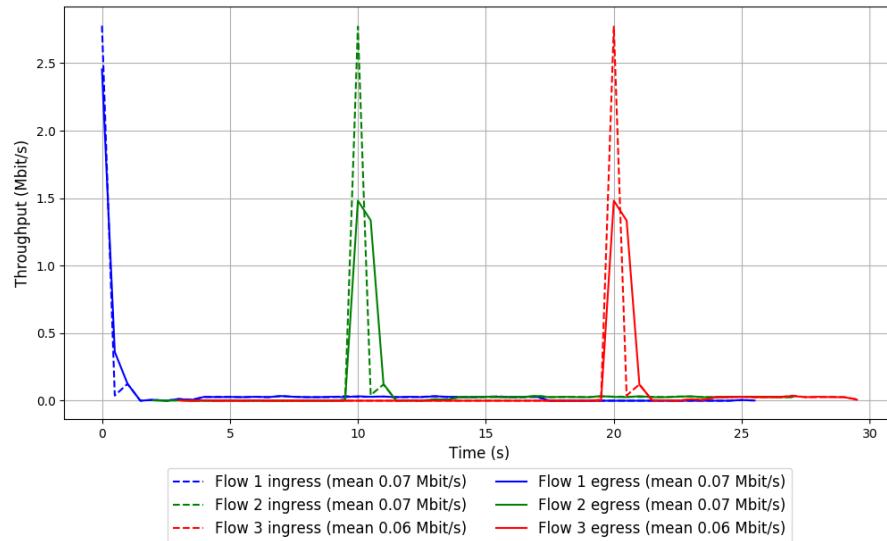


Run 8: Statistics of WebRTC media

```
Start at: 2018-03-27 17:16:26
End at: 2018-03-27 17:16:56
Local clock offset: -4.751 ms
Remote clock offset: -17.973 ms

# Below is generated by plot.py at 2018-03-27 22:18:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 40.303 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 40.473 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 40.096 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 40.074 ms
Loss rate: 0.16%
```

### Run 8: Report of WebRTC media — Data Link

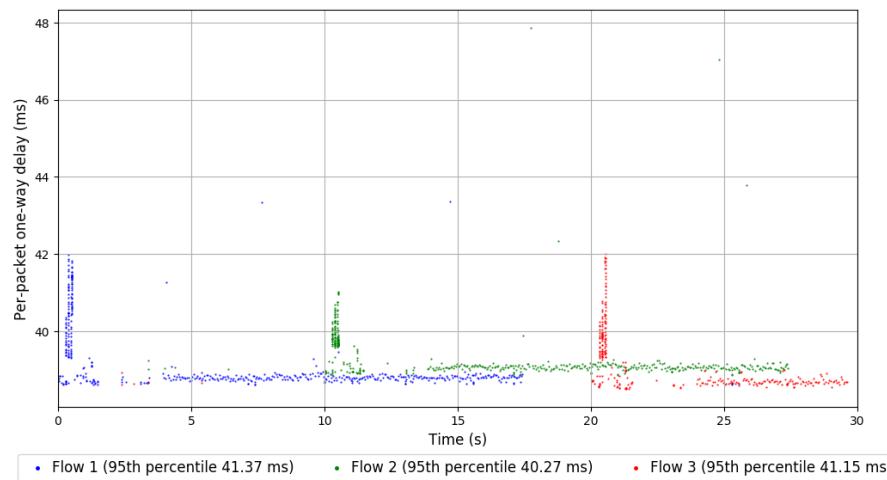
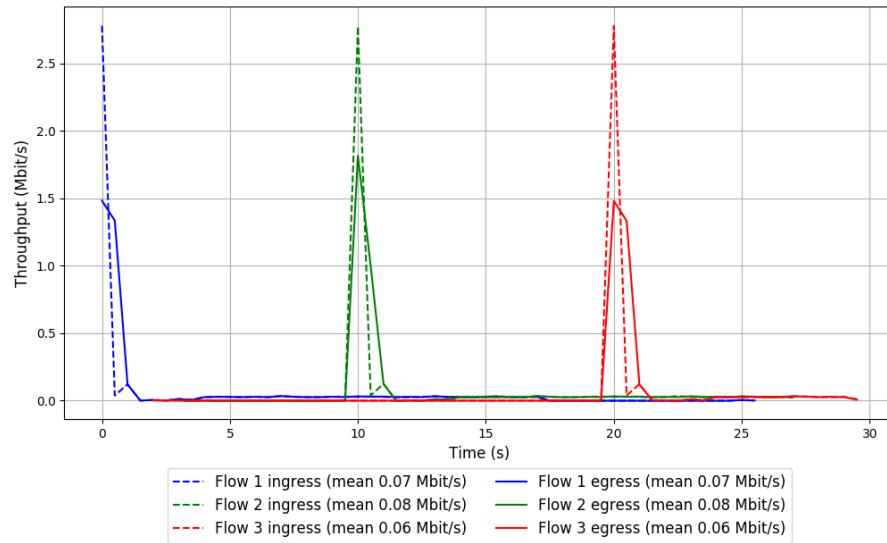


Run 9: Statistics of WebRTC media

```
Start at: 2018-03-27 17:40:25
End at: 2018-03-27 17:40:55
Local clock offset: 7.906 ms
Remote clock offset: -11.433 ms

# Below is generated by plot.py at 2018-03-27 22:18:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 40.991 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 41.371 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 40.266 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 41.151 ms
Loss rate: 0.16%
```

### Run 9: Report of WebRTC media — Data Link

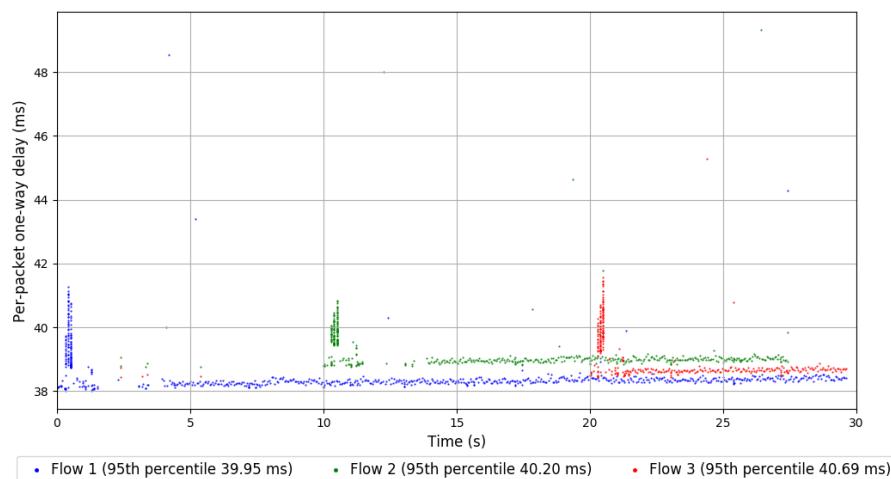
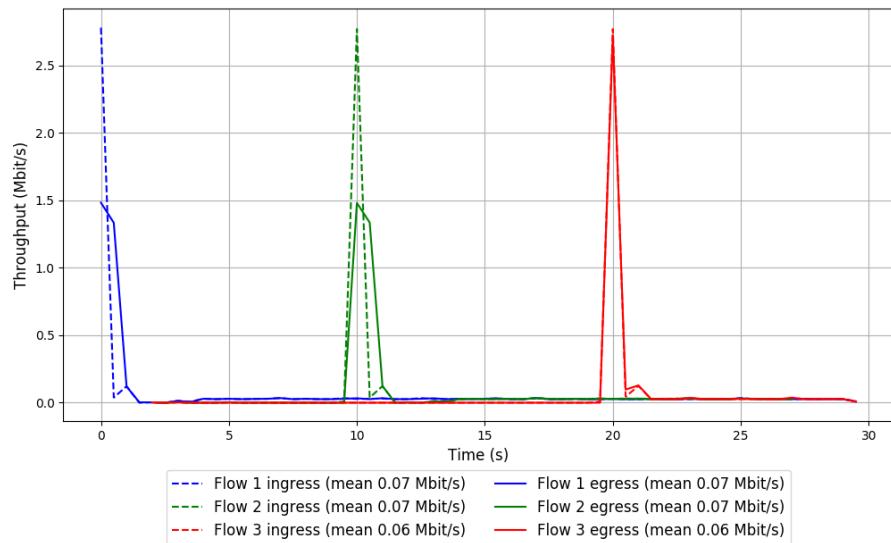


```
Run 10: Statistics of WebRTC media
```

```
Start at: 2018-03-27 18:03:13
End at: 2018-03-27 18:03:43
Local clock offset: 3.865 ms
Remote clock offset: -10.155 ms

# Below is generated by plot.py at 2018-03-27 22:18:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 40.353 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 39.949 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 40.200 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 40.693 ms
Loss rate: 0.15%
```

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

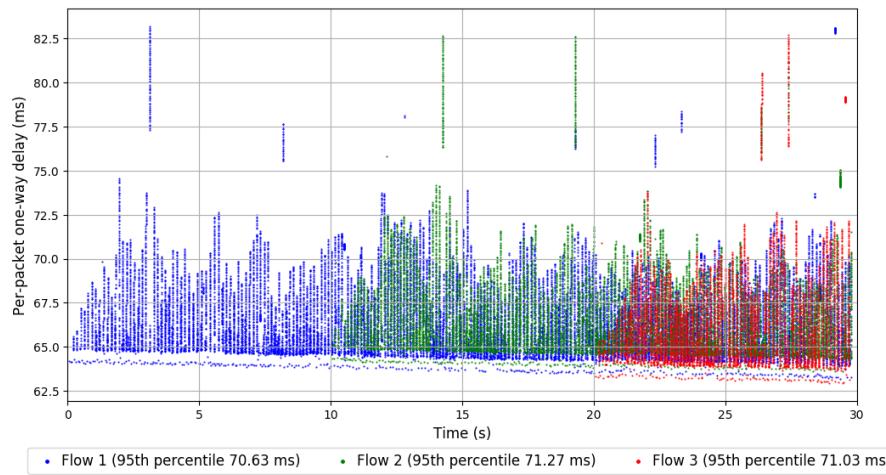
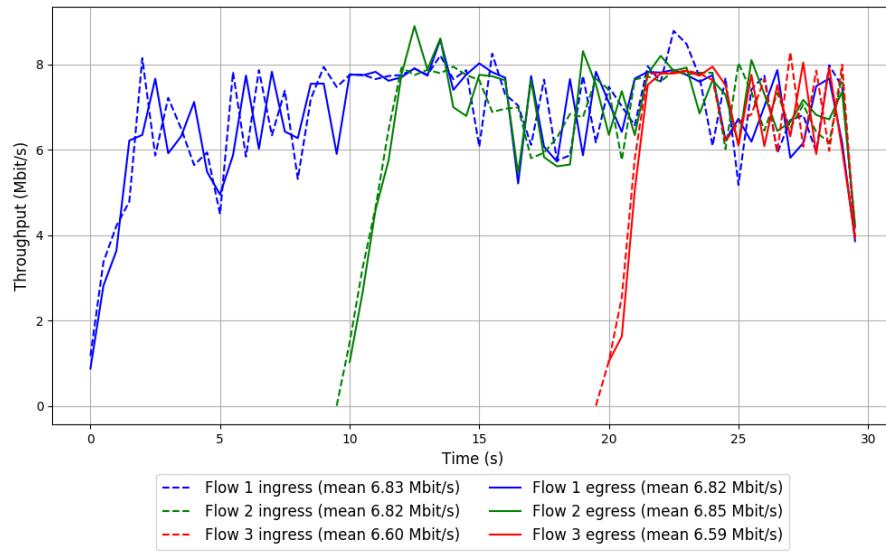


Run 1: Statistics of Sprout

```
Start at: 2018-03-27 14:37:38
End at: 2018-03-27 14:38:08
Local clock offset: -0.787 ms
Remote clock offset: -17.944 ms

# Below is generated by plot.py at 2018-03-27 22:18:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.52 Mbit/s
95th percentile per-packet one-way delay: 70.895 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 6.82 Mbit/s
95th percentile per-packet one-way delay: 70.631 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 6.85 Mbit/s
95th percentile per-packet one-way delay: 71.270 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 6.59 Mbit/s
95th percentile per-packet one-way delay: 71.032 ms
Loss rate: 1.54%
```

Run 1: Report of Sprout — Data Link

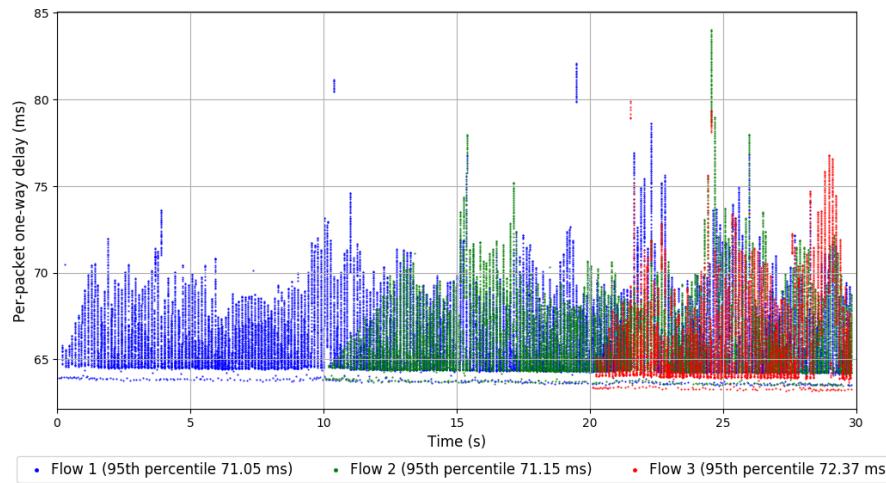
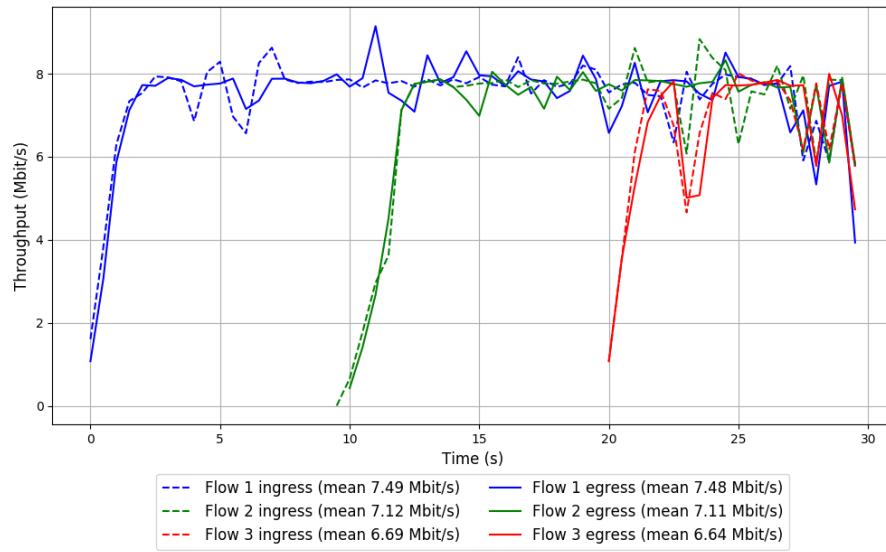


Run 2: Statistics of Sprout

```
Start at: 2018-03-27 15:02:05
End at: 2018-03-27 15:02:35
Local clock offset: -1.324 ms
Remote clock offset: -40.864 ms

# Below is generated by plot.py at 2018-03-27 22:18:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.36 Mbit/s
95th percentile per-packet one-way delay: 71.275 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 7.48 Mbit/s
95th percentile per-packet one-way delay: 71.052 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 7.11 Mbit/s
95th percentile per-packet one-way delay: 71.154 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 6.64 Mbit/s
95th percentile per-packet one-way delay: 72.374 ms
Loss rate: 1.51%
```

## Run 2: Report of Sprout — Data Link

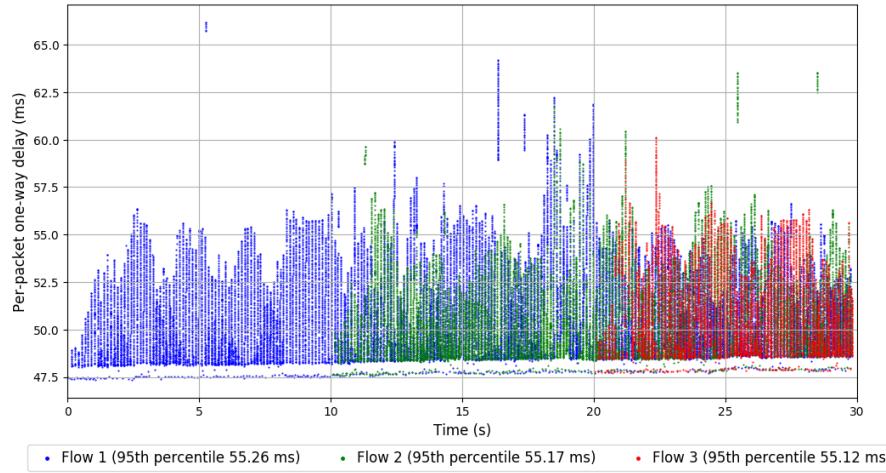
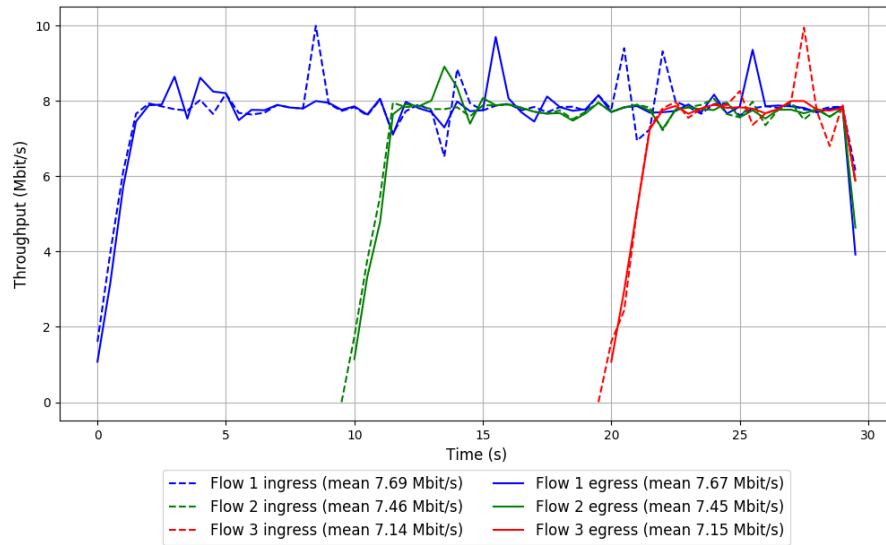


Run 3: Statistics of Sprout

```
Start at: 2018-03-27 15:26:48
End at: 2018-03-27 15:27:18
Local clock offset: -0.31 ms
Remote clock offset: 21.441 ms

# Below is generated by plot.py at 2018-03-27 22:18:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.95 Mbit/s
95th percentile per-packet one-way delay: 55.219 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 7.67 Mbit/s
95th percentile per-packet one-way delay: 55.260 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 7.45 Mbit/s
95th percentile per-packet one-way delay: 55.175 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 7.15 Mbit/s
95th percentile per-packet one-way delay: 55.120 ms
Loss rate: 0.86%
```

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

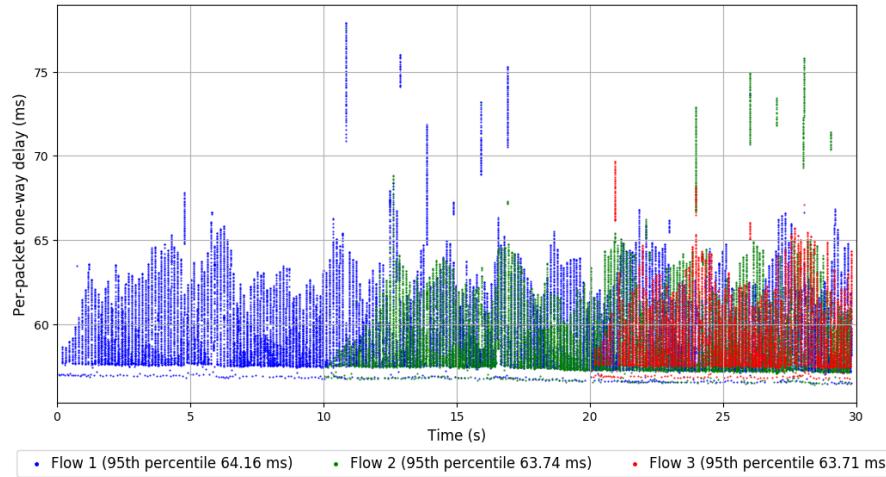
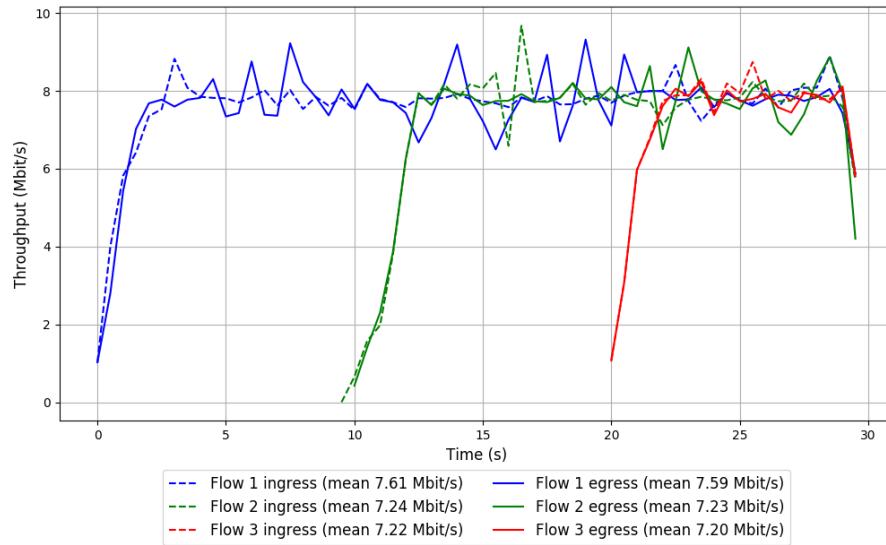


Run 4: Statistics of Sprout

```
Start at: 2018-03-27 15:50:49
End at: 2018-03-27 15:51:19
Local clock offset: 7.383 ms
Remote clock offset: 11.465 ms

# Below is generated by plot.py at 2018-03-27 22:18:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.74 Mbit/s
95th percentile per-packet one-way delay: 63.946 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 7.59 Mbit/s
95th percentile per-packet one-way delay: 64.158 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 7.23 Mbit/s
95th percentile per-packet one-way delay: 63.741 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 7.20 Mbit/s
95th percentile per-packet one-way delay: 63.709 ms
Loss rate: 1.47%
```

## Run 4: Report of Sprout — Data Link

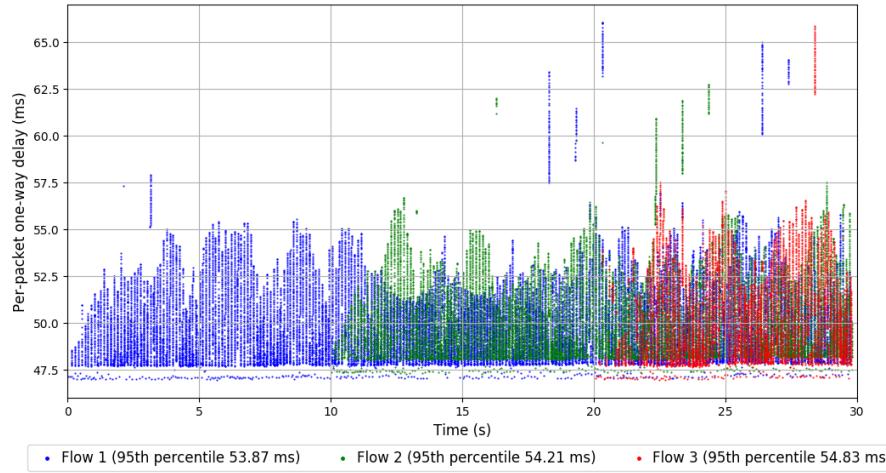
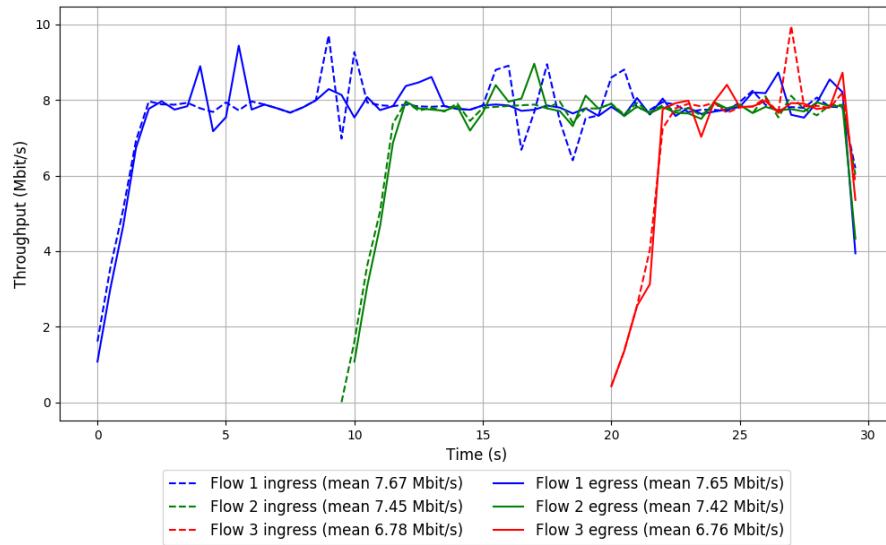


Run 5: Statistics of Sprout

```
Start at: 2018-03-27 16:15:37
End at: 2018-03-27 16:16:07
Local clock offset: 9.605 ms
Remote clock offset: 17.987 ms

# Below is generated by plot.py at 2018-03-27 22:18:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.78 Mbit/s
95th percentile per-packet one-way delay: 54.183 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 7.65 Mbit/s
95th percentile per-packet one-way delay: 53.865 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 7.42 Mbit/s
95th percentile per-packet one-way delay: 54.214 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 6.76 Mbit/s
95th percentile per-packet one-way delay: 54.826 ms
Loss rate: 1.69%
```

## Run 5: Report of Sprout — Data Link

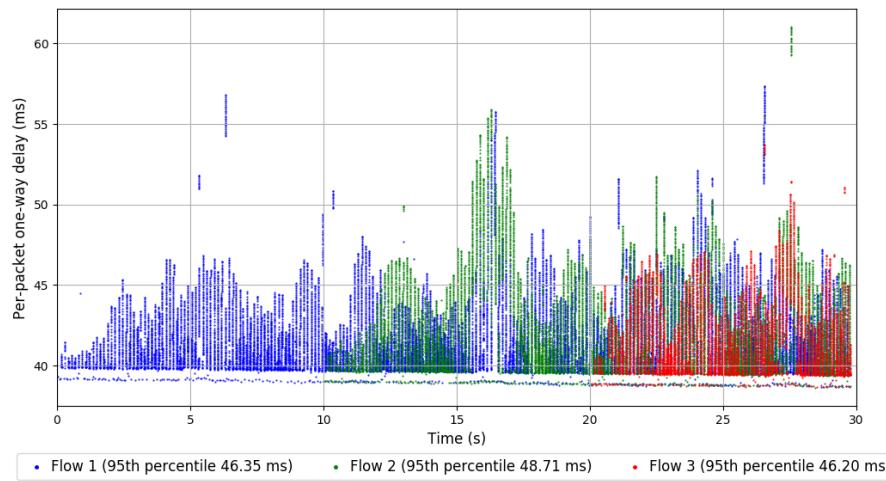
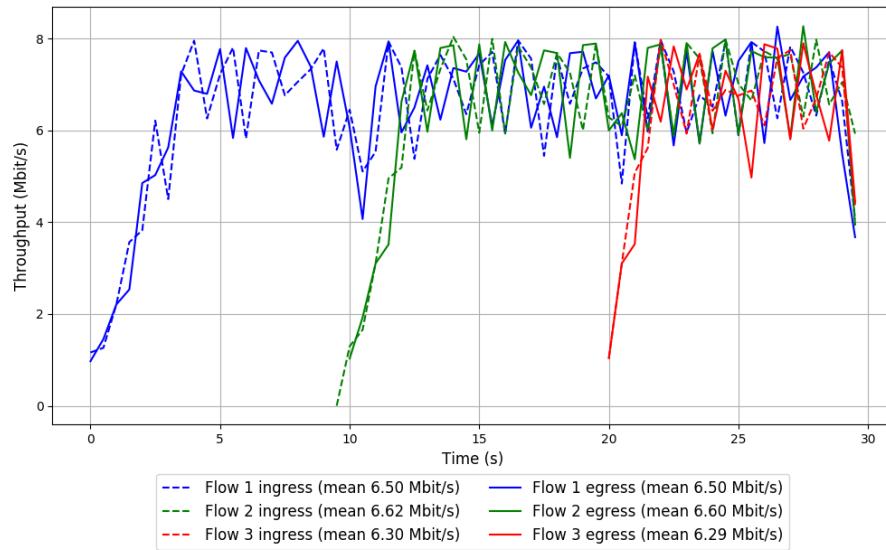


Run 6: Statistics of Sprout

```
Start at: 2018-03-27 16:41:18
End at: 2018-03-27 16:41:48
Local clock offset: 10.092 ms
Remote clock offset: -23.411 ms

# Below is generated by plot.py at 2018-03-27 22:18:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.94 Mbit/s
95th percentile per-packet one-way delay: 47.176 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 6.50 Mbit/s
95th percentile per-packet one-way delay: 46.352 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 6.60 Mbit/s
95th percentile per-packet one-way delay: 48.708 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 6.29 Mbit/s
95th percentile per-packet one-way delay: 46.201 ms
Loss rate: 1.19%
```

Run 6: Report of Sprout — Data Link

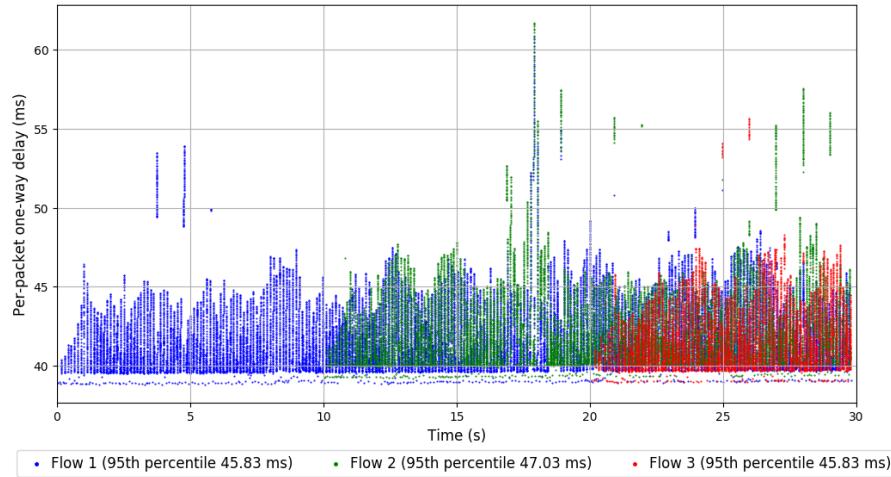
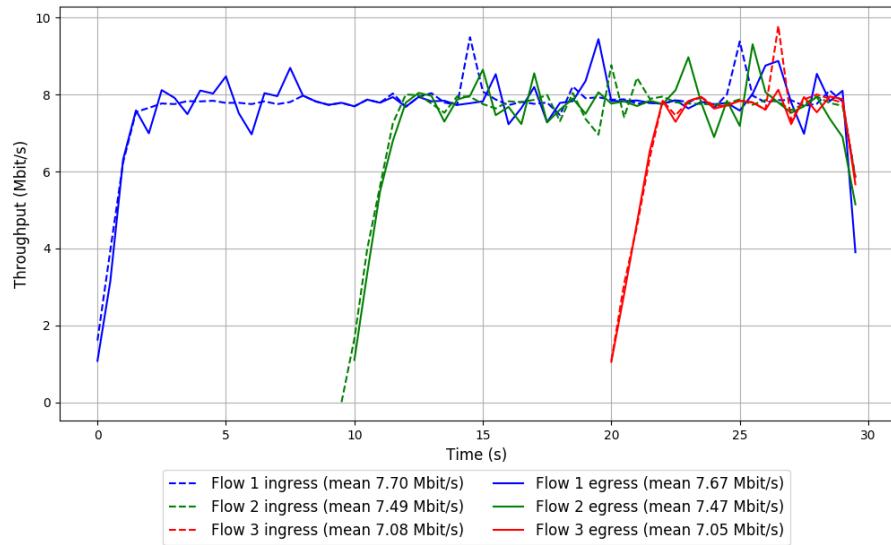


Run 7: Statistics of Sprout

```
Start at: 2018-03-27 17:04:27
End at: 2018-03-27 17:04:57
Local clock offset: -2.066 ms
Remote clock offset: -17.317 ms

# Below is generated by plot.py at 2018-03-27 22:18:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.93 Mbit/s
95th percentile per-packet one-way delay: 46.185 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 7.67 Mbit/s
95th percentile per-packet one-way delay: 45.825 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 7.47 Mbit/s
95th percentile per-packet one-way delay: 47.028 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 7.05 Mbit/s
95th percentile per-packet one-way delay: 45.831 ms
Loss rate: 1.73%
```

Run 7: Report of Sprout — Data Link

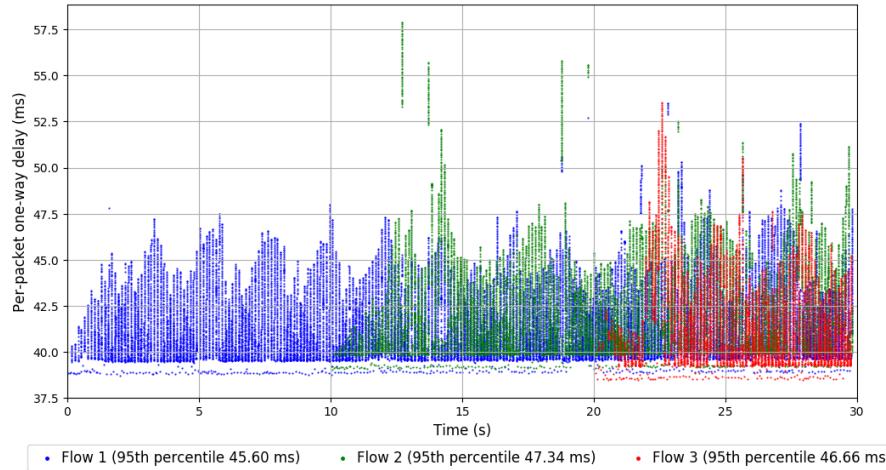
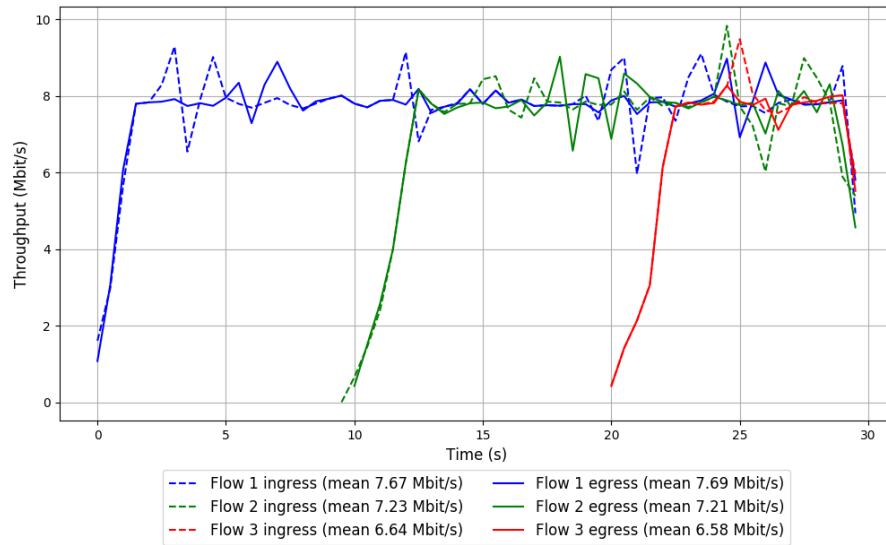


Run 8: Statistics of Sprout

```
Start at: 2018-03-27 17:28:27
End at: 2018-03-27 17:28:57
Local clock offset: 4.795 ms
Remote clock offset: -16.22 ms

# Below is generated by plot.py at 2018-03-27 22:18:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.63 Mbit/s
95th percentile per-packet one-way delay: 46.401 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 7.69 Mbit/s
95th percentile per-packet one-way delay: 45.599 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 7.21 Mbit/s
95th percentile per-packet one-way delay: 47.341 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 6.58 Mbit/s
95th percentile per-packet one-way delay: 46.661 ms
Loss rate: 1.69%
```

Run 8: Report of Sprout — Data Link

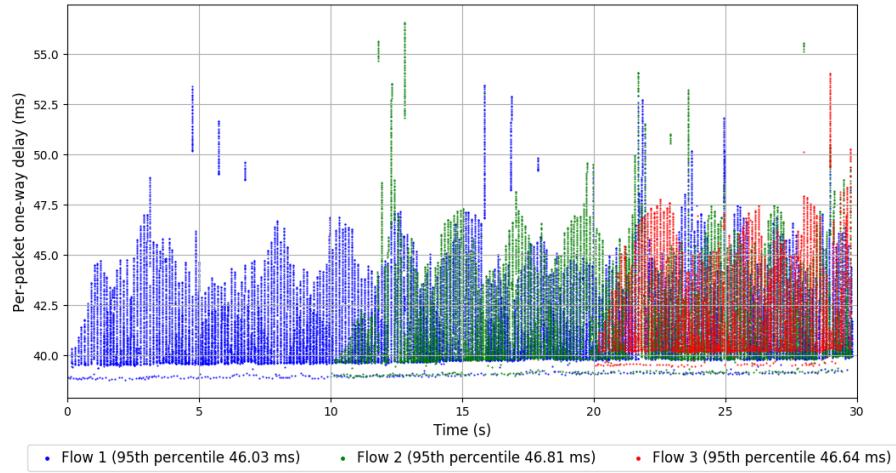
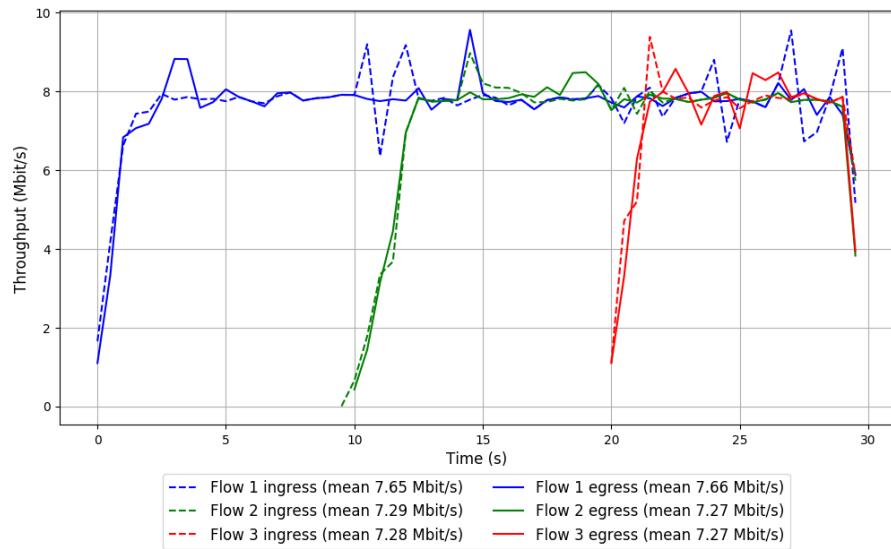


Run 9: Statistics of Sprout

```
Start at: 2018-03-27 17:51:49
End at: 2018-03-27 17:52:19
Local clock offset: 8.997 ms
Remote clock offset: -10.972 ms

# Below is generated by plot.py at 2018-03-27 22:18:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.86 Mbit/s
95th percentile per-packet one-way delay: 46.458 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 7.66 Mbit/s
95th percentile per-packet one-way delay: 46.027 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 7.27 Mbit/s
95th percentile per-packet one-way delay: 46.810 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 7.27 Mbit/s
95th percentile per-packet one-way delay: 46.636 ms
Loss rate: 1.36%
```

Run 9: Report of Sprout — Data Link

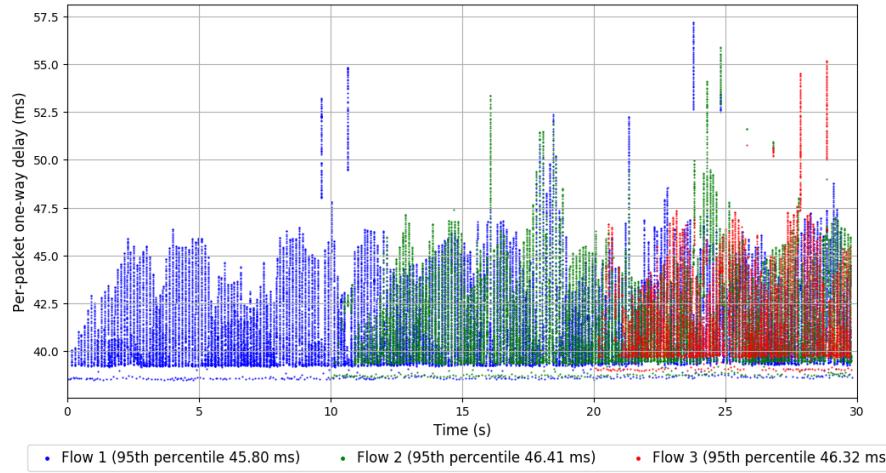
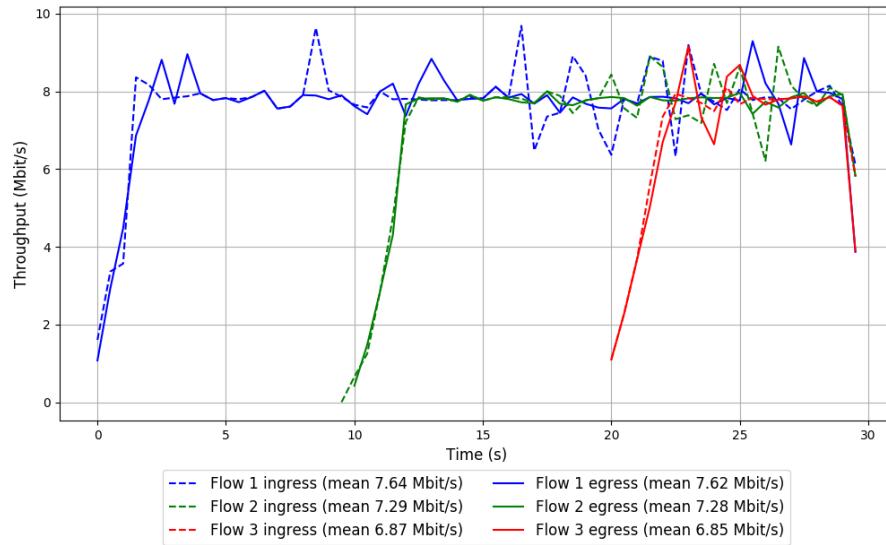


Run 10: Statistics of Sprout

```
Start at: 2018-03-27 18:14:43
End at: 2018-03-27 18:15:13
Local clock offset: 2.278 ms
Remote clock offset: -9.351 ms

# Below is generated by plot.py at 2018-03-27 22:18:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.68 Mbit/s
95th percentile per-packet one-way delay: 46.078 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 7.62 Mbit/s
95th percentile per-packet one-way delay: 45.802 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 7.28 Mbit/s
95th percentile per-packet one-way delay: 46.405 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 6.85 Mbit/s
95th percentile per-packet one-way delay: 46.319 ms
Loss rate: 1.55%
```

Run 10: Report of Sprout — Data Link

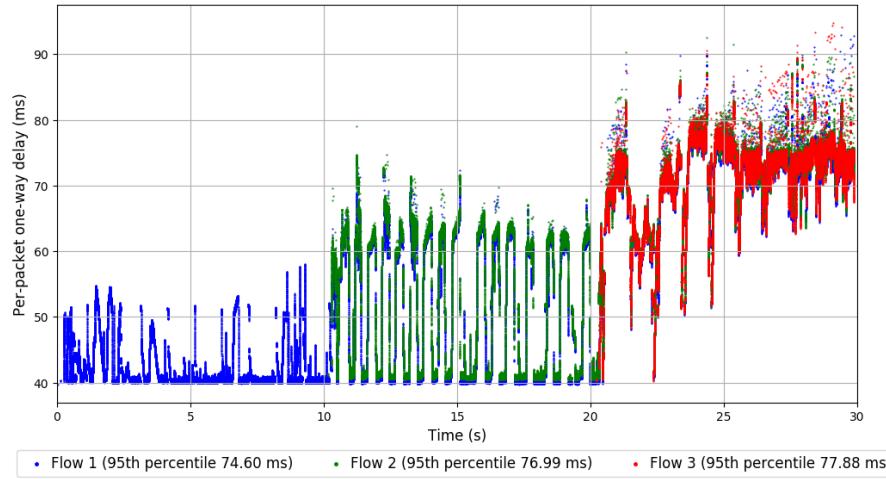
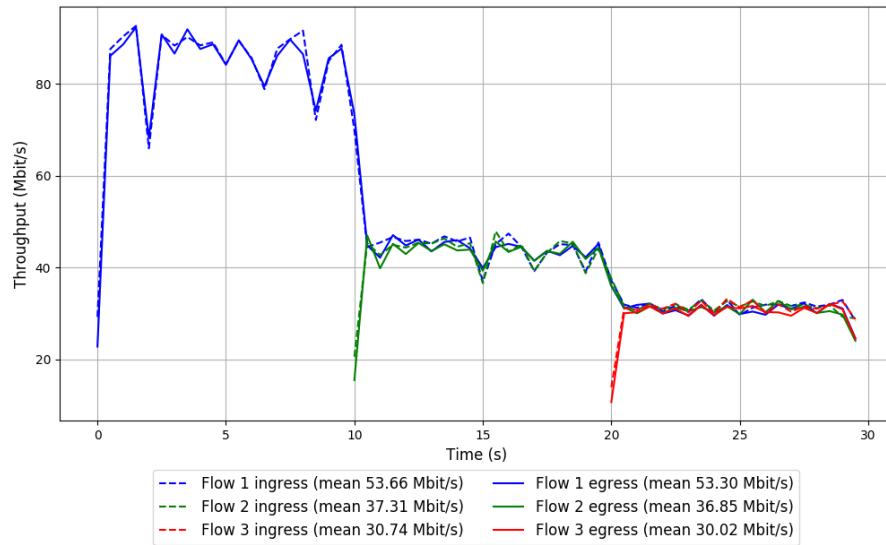


Run 1: Statistics of TaoVA-100x

```
Start at: 2018-03-27 14:20:06
End at: 2018-03-27 14:20:36
Local clock offset: -1.709 ms
Remote clock offset: 21.039 ms

# Below is generated by plot.py at 2018-03-27 22:20:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.62 Mbit/s
95th percentile per-packet one-way delay: 76.375 ms
Loss rate: 1.56%
-- Flow 1:
Average throughput: 53.30 Mbit/s
95th percentile per-packet one-way delay: 74.601 ms
Loss rate: 1.03%
-- Flow 2:
Average throughput: 36.85 Mbit/s
95th percentile per-packet one-way delay: 76.989 ms
Loss rate: 1.86%
-- Flow 3:
Average throughput: 30.02 Mbit/s
95th percentile per-packet one-way delay: 77.883 ms
Loss rate: 3.63%
```

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

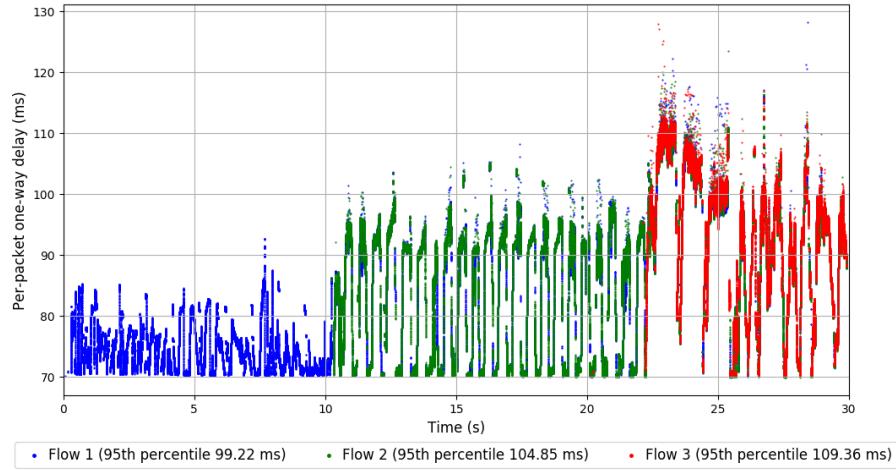
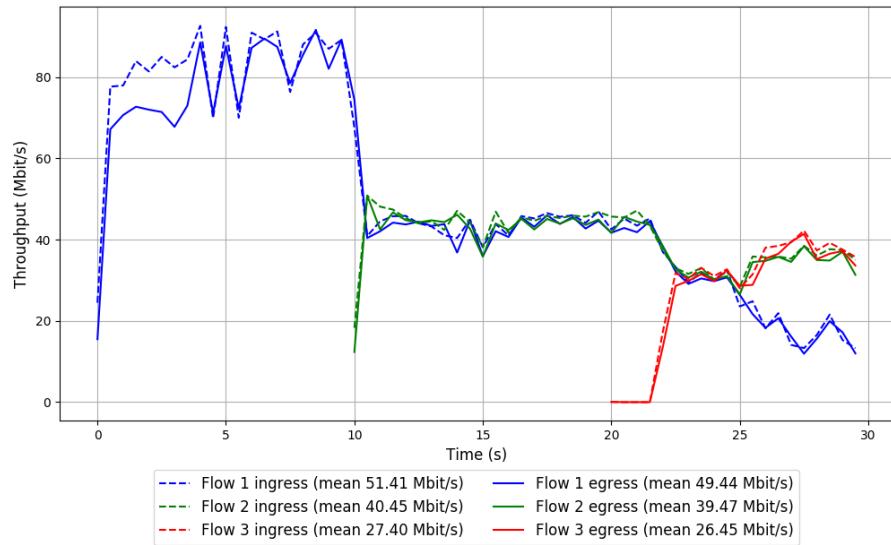


Run 2: Statistics of TaoVA-100x

```
Start at: 2018-03-27 14:44:03
End at: 2018-03-27 14:44:33
Local clock offset: -1.272 ms
Remote clock offset: -33.584 ms

# Below is generated by plot.py at 2018-03-27 22:20:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.35 Mbit/s
95th percentile per-packet one-way delay: 104.267 ms
Loss rate: 3.86%
-- Flow 1:
Average throughput: 49.44 Mbit/s
95th percentile per-packet one-way delay: 99.223 ms
Loss rate: 4.19%
-- Flow 2:
Average throughput: 39.47 Mbit/s
95th percentile per-packet one-way delay: 104.852 ms
Loss rate: 2.98%
-- Flow 3:
Average throughput: 26.45 Mbit/s
95th percentile per-packet one-way delay: 109.362 ms
Loss rate: 4.62%
```

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

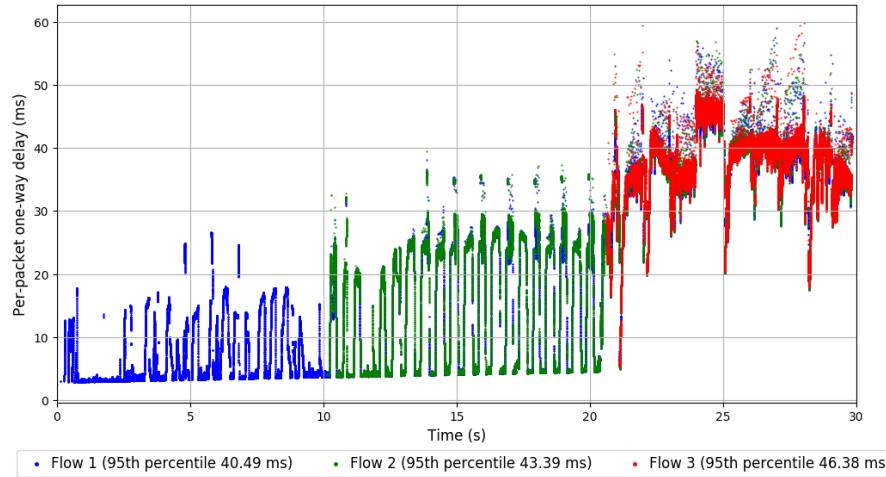
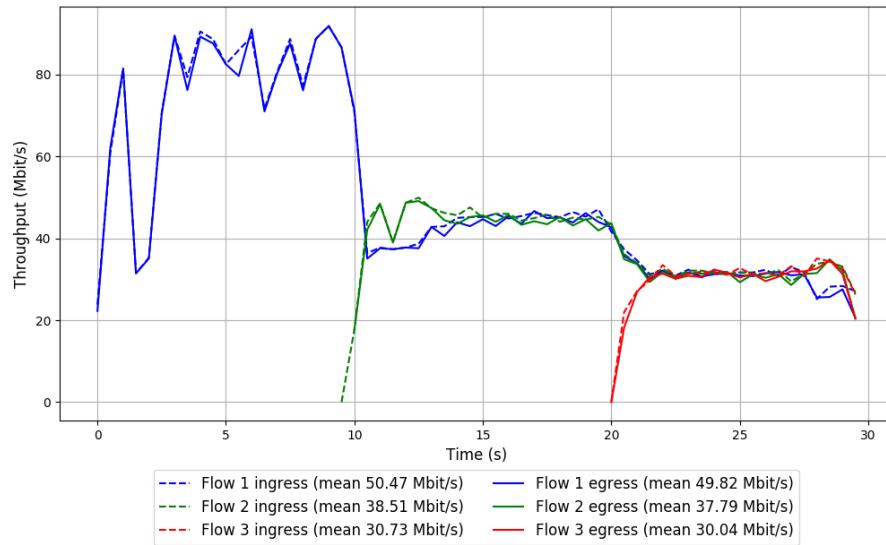


Run 3: Statistics of TaoVA-100x

```
Start at: 2018-03-27 15:09:14
End at: 2018-03-27 15:09:44
Local clock offset: -0.394 ms
Remote clock offset: 24.132 ms

# Below is generated by plot.py at 2018-03-27 22:20:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.45 Mbit/s
95th percentile per-packet one-way delay: 42.274 ms
Loss rate: 2.10%
-- Flow 1:
Average throughput: 49.82 Mbit/s
95th percentile per-packet one-way delay: 40.493 ms
Loss rate: 1.64%
-- Flow 2:
Average throughput: 37.79 Mbit/s
95th percentile per-packet one-way delay: 43.392 ms
Loss rate: 2.48%
-- Flow 3:
Average throughput: 30.04 Mbit/s
95th percentile per-packet one-way delay: 46.380 ms
Loss rate: 3.48%
```

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

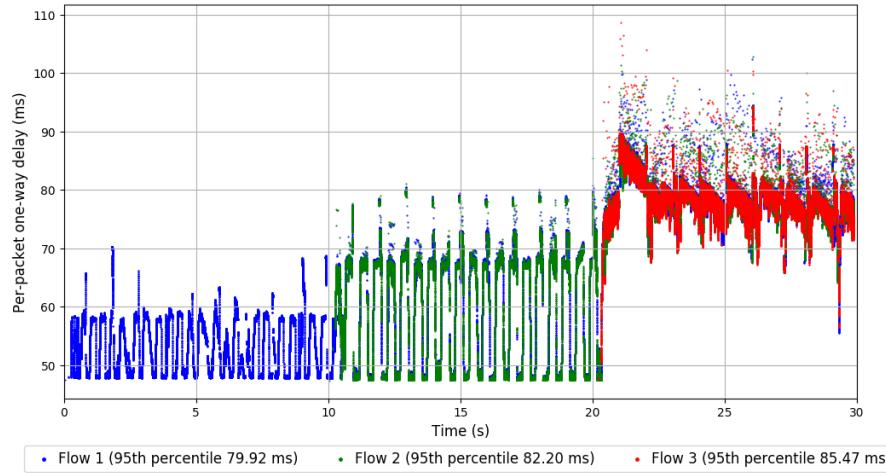
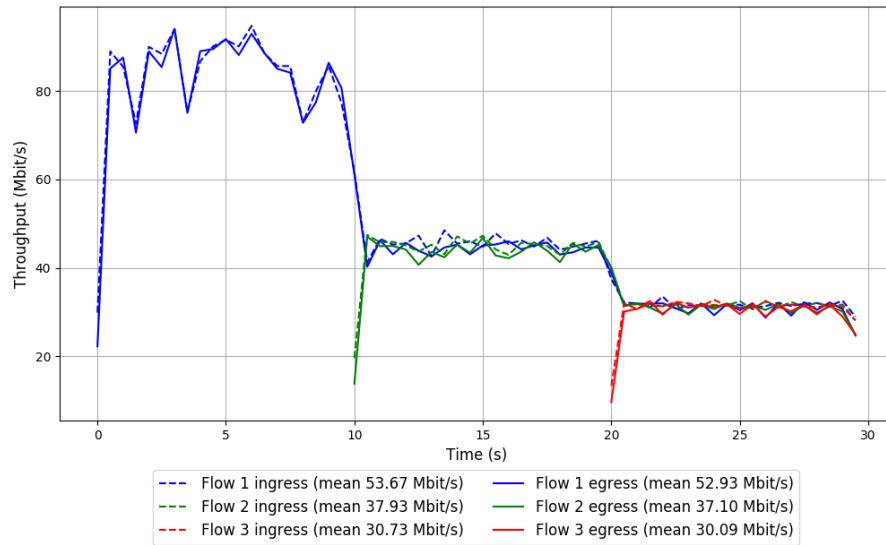


Run 4: Statistics of TaoVA-100x

```
Start at: 2018-03-27 15:33:49
End at: 2018-03-27 15:34:19
Local clock offset: -0.47 ms
Remote clock offset: 28.138 ms

# Below is generated by plot.py at 2018-03-27 22:20:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.45 Mbit/s
95th percentile per-packet one-way delay: 81.299 ms
Loss rate: 2.25%
-- Flow 1:
Average throughput: 52.93 Mbit/s
95th percentile per-packet one-way delay: 79.924 ms
Loss rate: 1.76%
-- Flow 2:
Average throughput: 37.10 Mbit/s
95th percentile per-packet one-way delay: 82.203 ms
Loss rate: 2.79%
-- Flow 3:
Average throughput: 30.09 Mbit/s
95th percentile per-packet one-way delay: 85.468 ms
Loss rate: 3.45%
```

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

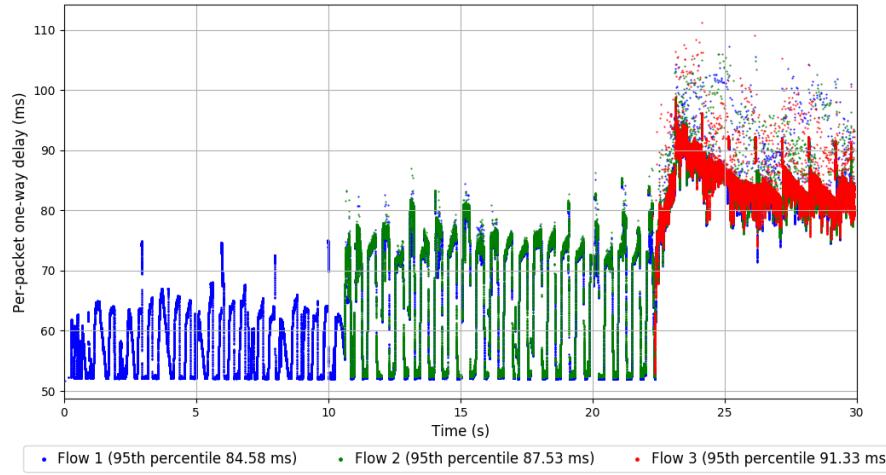
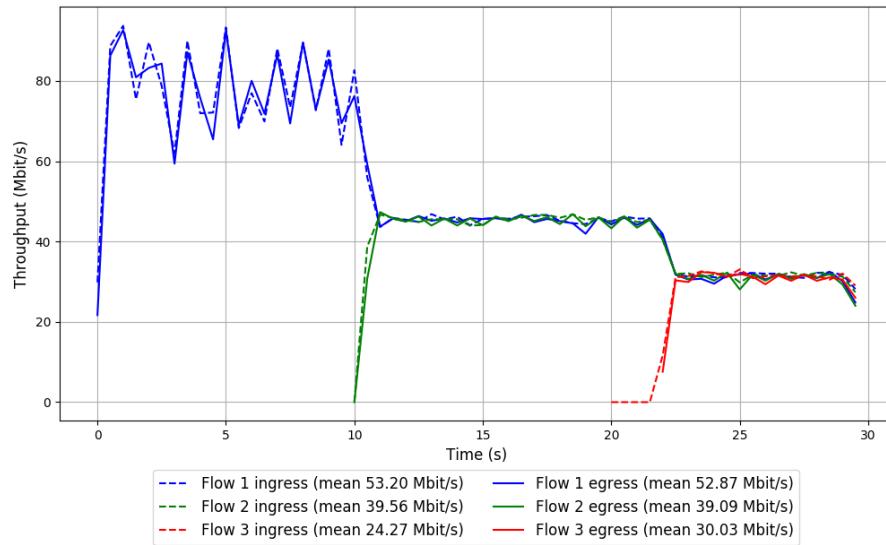


Run 5: Statistics of TaoVA-100x

```
Start at: 2018-03-27 15:57:36
End at: 2018-03-27 15:58:06
Local clock offset: 8.482 ms
Remote clock offset: 13.099 ms

# Below is generated by plot.py at 2018-03-27 22:20:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.22 Mbit/s
95th percentile per-packet one-way delay: 87.137 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 52.87 Mbit/s
95th percentile per-packet one-way delay: 84.581 ms
Loss rate: 1.04%
-- Flow 2:
Average throughput: 39.09 Mbit/s
95th percentile per-packet one-way delay: 87.526 ms
Loss rate: 1.81%
-- Flow 3:
Average throughput: 30.03 Mbit/s
95th percentile per-packet one-way delay: 91.328 ms
Loss rate: 3.16%
```

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

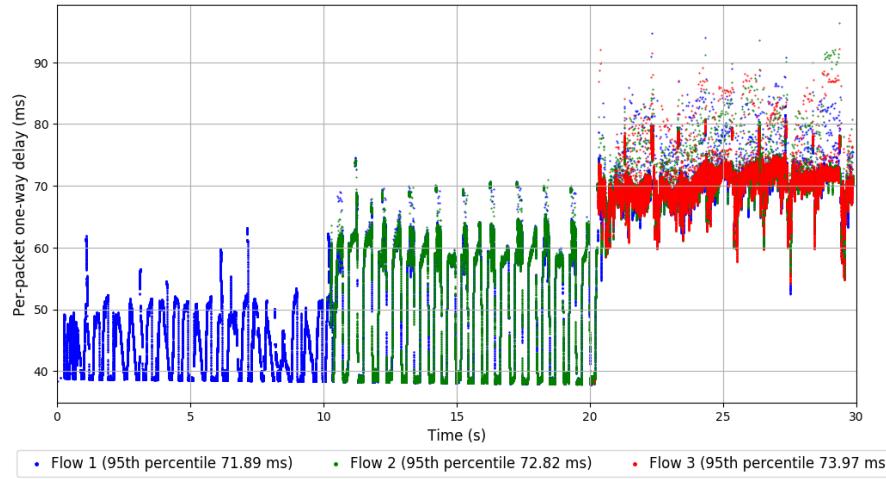
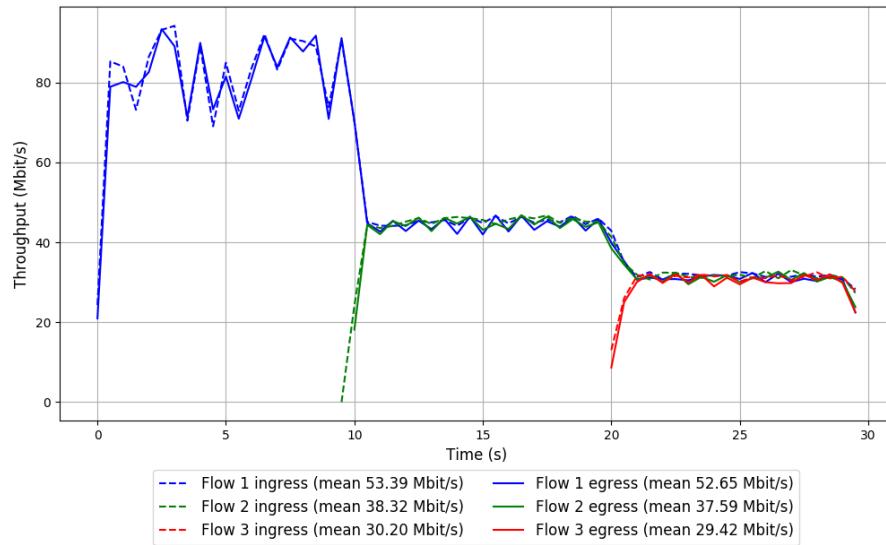


Run 6: Statistics of TaoVA-100x

```
Start at: 2018-03-27 16:22:36
End at: 2018-03-27 16:23:06
Local clock offset: 9.401 ms
Remote clock offset: 4.457 ms

# Below is generated by plot.py at 2018-03-27 22:20:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.32 Mbit/s
95th percentile per-packet one-way delay: 72.628 ms
Loss rate: 2.19%
-- Flow 1:
Average throughput: 52.65 Mbit/s
95th percentile per-packet one-way delay: 71.885 ms
Loss rate: 1.75%
-- Flow 2:
Average throughput: 37.59 Mbit/s
95th percentile per-packet one-way delay: 72.816 ms
Loss rate: 2.49%
-- Flow 3:
Average throughput: 29.42 Mbit/s
95th percentile per-packet one-way delay: 73.969 ms
Loss rate: 3.79%
```

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

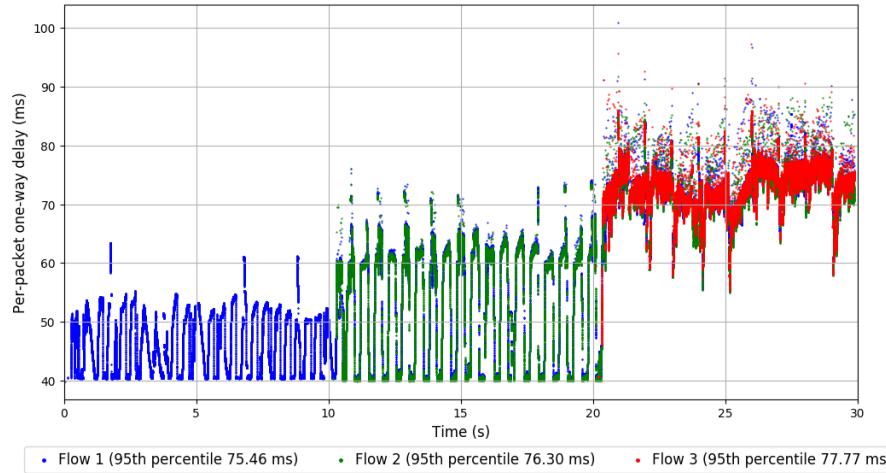
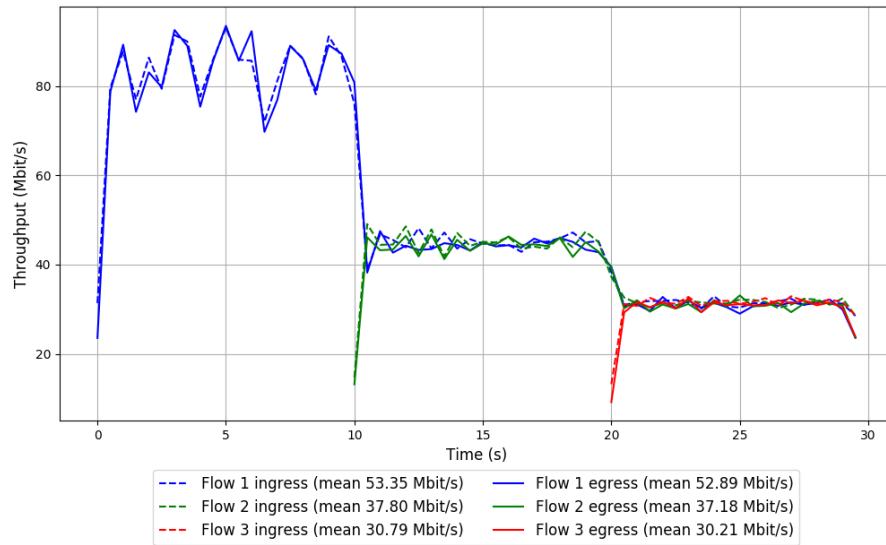


Run 7: Statistics of TaoVA-100x

```
Start at: 2018-03-27 16:47:52
End at: 2018-03-27 16:48:22
Local clock offset: 5.89 ms
Remote clock offset: -28.446 ms

# Below is generated by plot.py at 2018-03-27 22:20:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.50 Mbit/s
95th percentile per-packet one-way delay: 76.354 ms
Loss rate: 1.78%
-- Flow 1:
Average throughput: 52.89 Mbit/s
95th percentile per-packet one-way delay: 75.457 ms
Loss rate: 1.27%
-- Flow 2:
Average throughput: 37.18 Mbit/s
95th percentile per-packet one-way delay: 76.300 ms
Loss rate: 2.23%
-- Flow 3:
Average throughput: 30.21 Mbit/s
95th percentile per-packet one-way delay: 77.765 ms
Loss rate: 3.36%
```

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

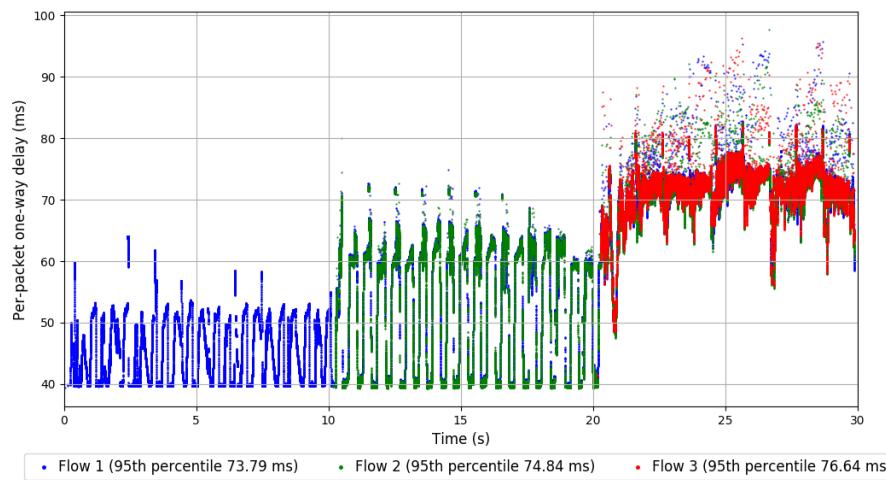
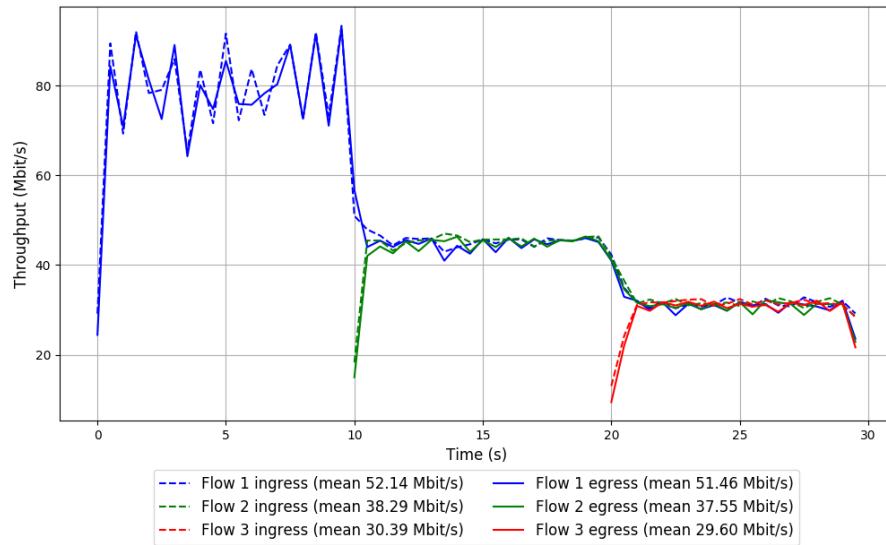


Run 8: Statistics of TaoVA-100x

```
Start at: 2018-03-27 17:11:15
End at: 2018-03-27 17:11:45
Local clock offset: -3.682 ms
Remote clock offset: -17.154 ms

# Below is generated by plot.py at 2018-03-27 22:21:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.14 Mbit/s
95th percentile per-packet one-way delay: 74.835 ms
Loss rate: 2.16%
-- Flow 1:
Average throughput: 51.46 Mbit/s
95th percentile per-packet one-way delay: 73.791 ms
Loss rate: 1.66%
-- Flow 2:
Average throughput: 37.55 Mbit/s
95th percentile per-packet one-way delay: 74.837 ms
Loss rate: 2.52%
-- Flow 3:
Average throughput: 29.60 Mbit/s
95th percentile per-packet one-way delay: 76.635 ms
Loss rate: 3.87%
```

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

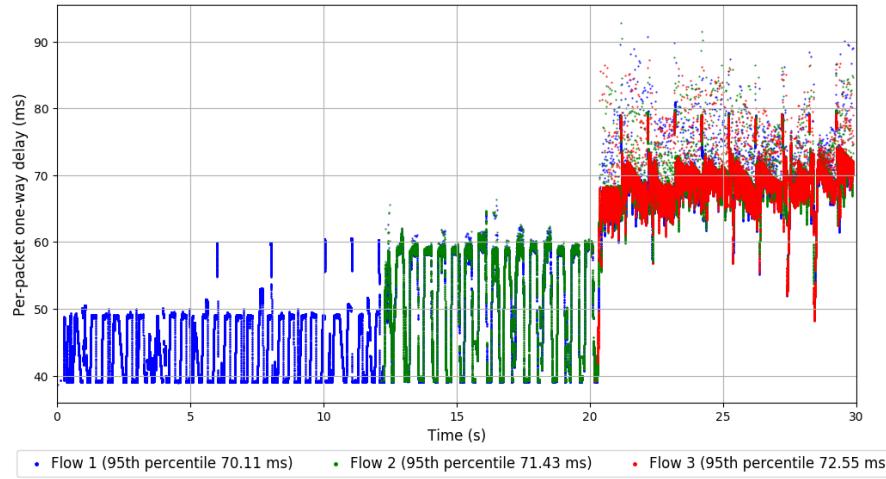
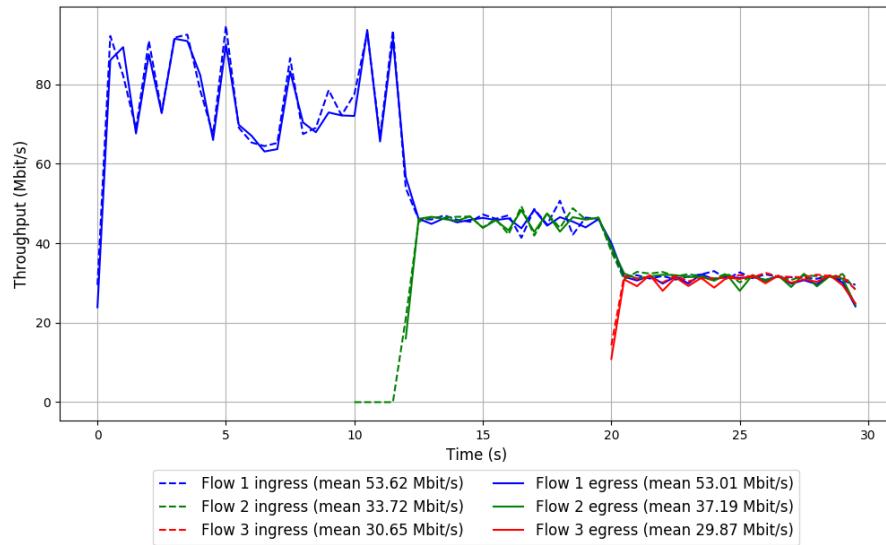


Run 9: Statistics of TaoVA-100x

```
Start at: 2018-03-27 17:35:16
End at: 2018-03-27 17:35:46
Local clock offset: 6.767 ms
Remote clock offset: -12.725 ms

# Below is generated by plot.py at 2018-03-27 22:22:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.00 Mbit/s
95th percentile per-packet one-way delay: 71.078 ms
Loss rate: 1.79%
-- Flow 1:
Average throughput: 53.01 Mbit/s
95th percentile per-packet one-way delay: 70.114 ms
Loss rate: 1.48%
-- Flow 2:
Average throughput: 37.19 Mbit/s
95th percentile per-packet one-way delay: 71.429 ms
Loss rate: 1.56%
-- Flow 3:
Average throughput: 29.87 Mbit/s
95th percentile per-packet one-way delay: 72.554 ms
Loss rate: 3.92%
```

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

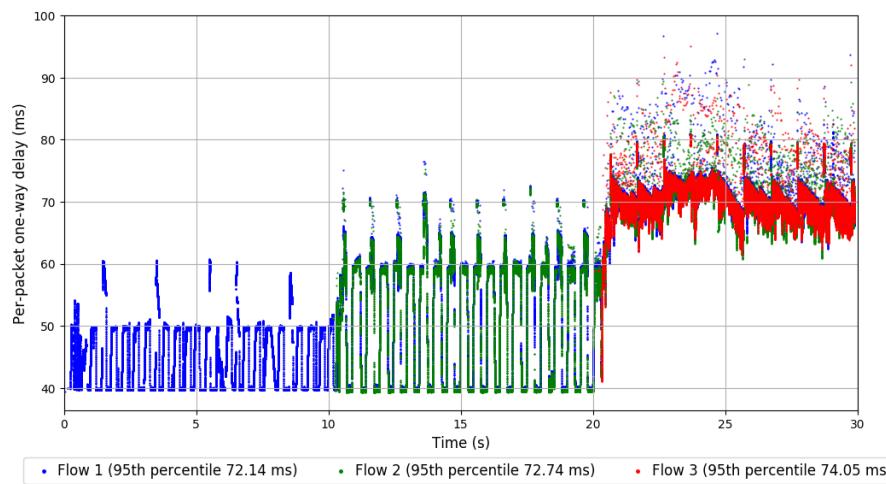
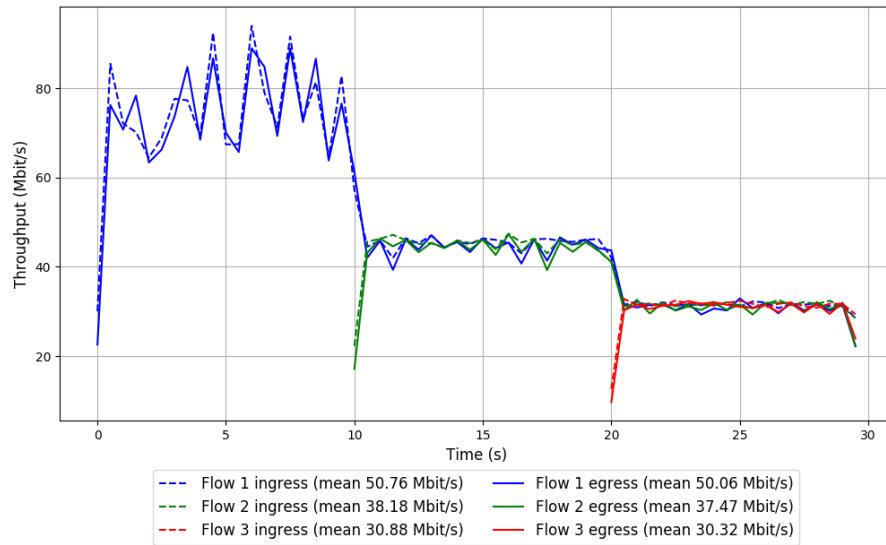


Run 10: Statistics of TaoVA-100x

```
Start at: 2018-03-27 17:58:11
End at: 2018-03-27 17:58:41
Local clock offset: 5.704 ms
Remote clock offset: -11.098 ms

# Below is generated by plot.py at 2018-03-27 22:22:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.90 Mbit/s
95th percentile per-packet one-way delay: 72.789 ms
Loss rate: 2.11%
-- Flow 1:
Average throughput: 50.06 Mbit/s
95th percentile per-packet one-way delay: 72.143 ms
Loss rate: 1.73%
-- Flow 2:
Average throughput: 37.47 Mbit/s
95th percentile per-packet one-way delay: 72.741 ms
Loss rate: 2.50%
-- Flow 3:
Average throughput: 30.32 Mbit/s
95th percentile per-packet one-way delay: 74.045 ms
Loss rate: 3.04%
```

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

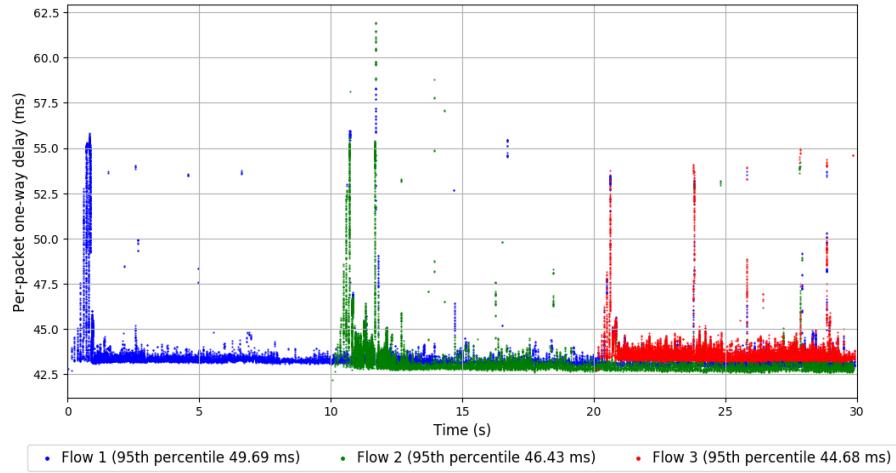
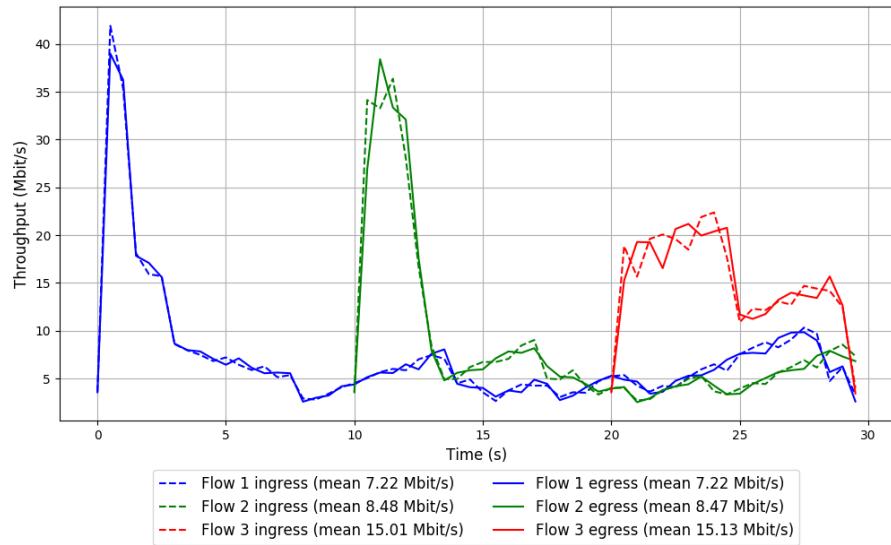


Run 1: Statistics of TCP Vegas

```
Start at: 2018-03-27 14:17:31
End at: 2018-03-27 14:18:01
Local clock offset: -1.304 ms
Remote clock offset: 20.496 ms

# Below is generated by plot.py at 2018-03-27 22:22:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 17.83 Mbit/s
95th percentile per-packet one-way delay: 46.434 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 7.22 Mbit/s
95th percentile per-packet one-way delay: 49.690 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 8.47 Mbit/s
95th percentile per-packet one-way delay: 46.426 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 15.13 Mbit/s
95th percentile per-packet one-way delay: 44.681 ms
Loss rate: 0.36%
```

Run 1: Report of TCP Vegas — Data Link

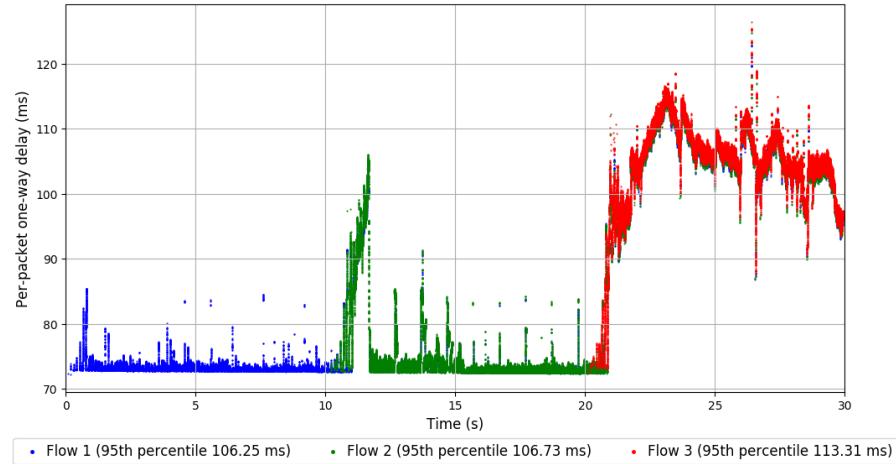
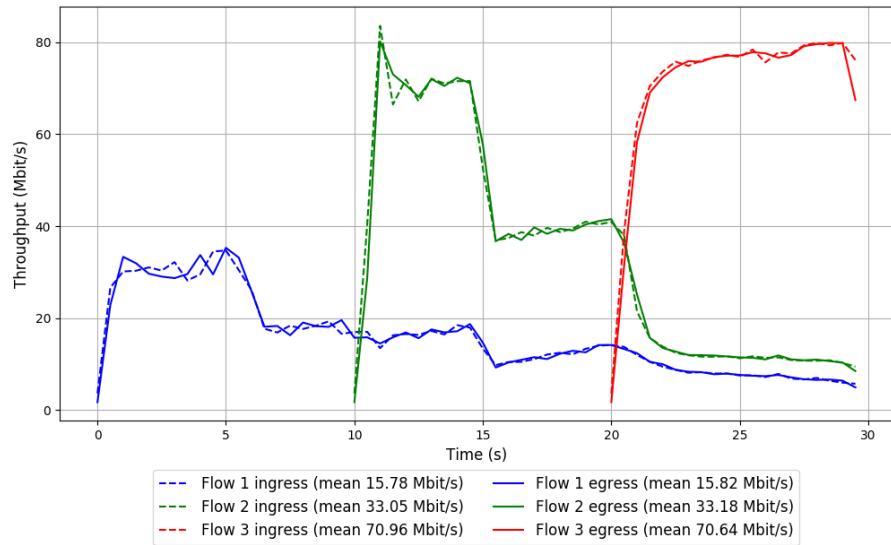


Run 2: Statistics of TCP Vegas

```
Start at: 2018-03-27 14:41:30
End at: 2018-03-27 14:42:00
Local clock offset: -1.448 ms
Remote clock offset: -32.997 ms

# Below is generated by plot.py at 2018-03-27 22:22:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 61.08 Mbit/s
95th percentile per-packet one-way delay: 111.571 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 15.82 Mbit/s
95th percentile per-packet one-way delay: 106.254 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 33.18 Mbit/s
95th percentile per-packet one-way delay: 106.734 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 70.64 Mbit/s
95th percentile per-packet one-way delay: 113.305 ms
Loss rate: 1.78%
```

Run 2: Report of TCP Vegas — Data Link

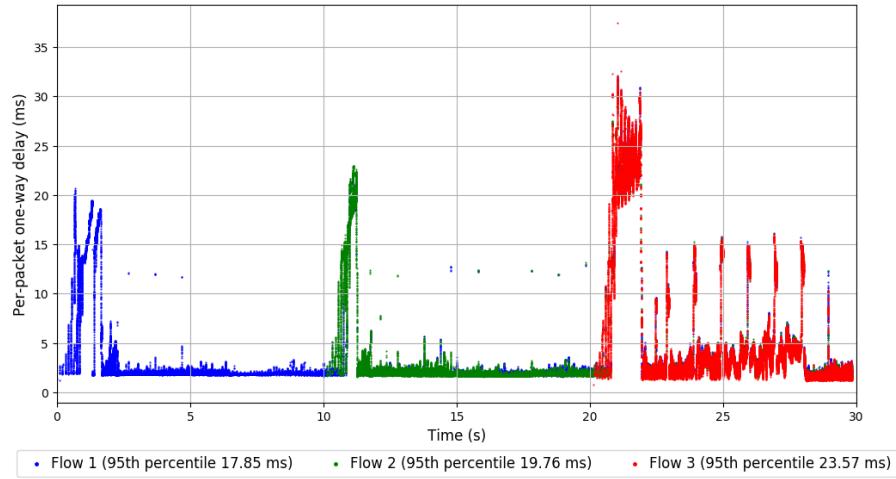
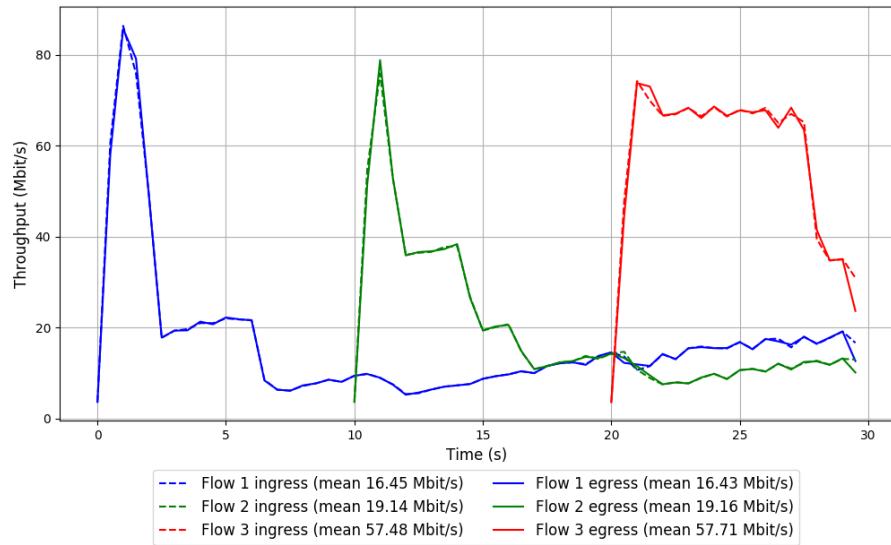


Run 3: Statistics of TCP Vegas

```
Start at: 2018-03-27 15:06:40
End at: 2018-03-27 15:07:11
Local clock offset: -0.909 ms
Remote clock offset: 19.155 ms

# Below is generated by plot.py at 2018-03-27 22:22:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.12 Mbit/s
95th percentile per-packet one-way delay: 21.891 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 16.43 Mbit/s
95th percentile per-packet one-way delay: 17.846 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 19.16 Mbit/s
95th percentile per-packet one-way delay: 19.759 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 57.71 Mbit/s
95th percentile per-packet one-way delay: 23.569 ms
Loss rate: 0.66%
```

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

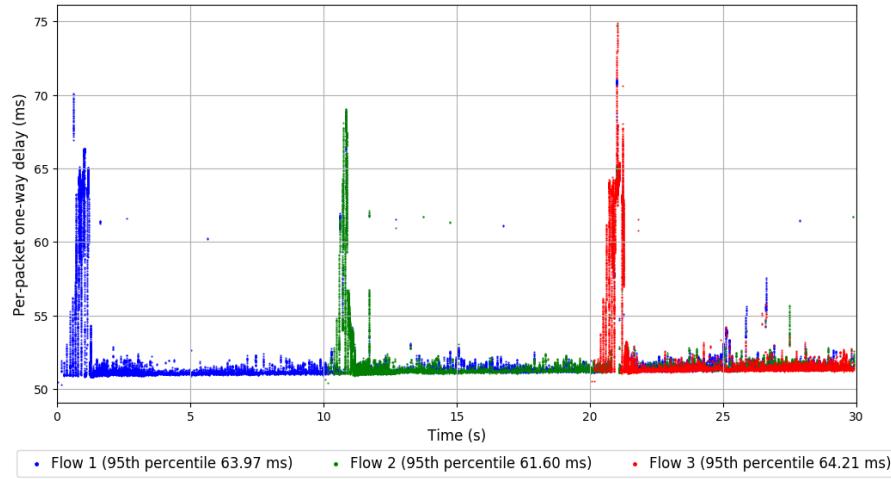
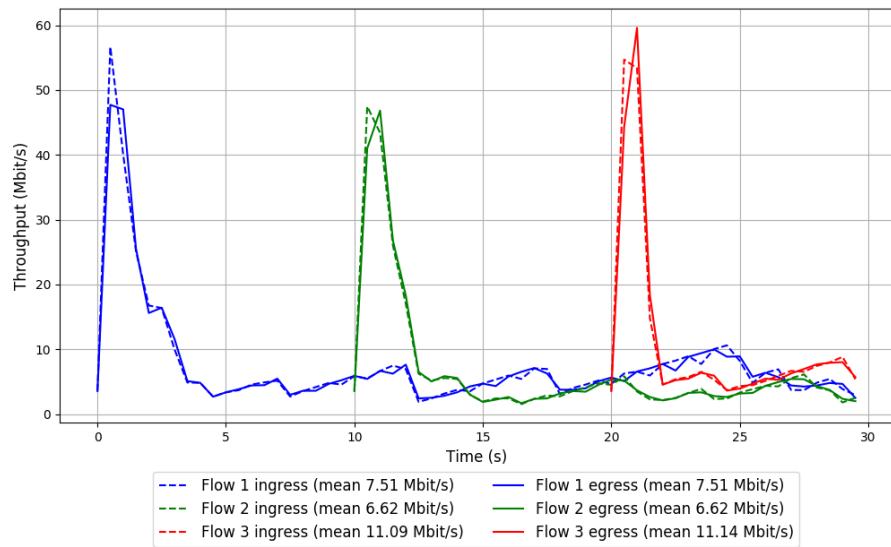


Run 4: Statistics of TCP Vegas

```
Start at: 2018-03-27 15:31:07
End at: 2018-03-27 15:31:37
Local clock offset: -0.583 ms
Remote clock offset: 22.89 ms

# Below is generated by plot.py at 2018-03-27 22:22:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.57 Mbit/s
95th percentile per-packet one-way delay: 64.007 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 7.51 Mbit/s
95th percentile per-packet one-way delay: 63.972 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 6.62 Mbit/s
95th percentile per-packet one-way delay: 61.601 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 11.14 Mbit/s
95th percentile per-packet one-way delay: 64.208 ms
Loss rate: 0.60%
```

Run 4: Report of TCP Vegas — Data Link

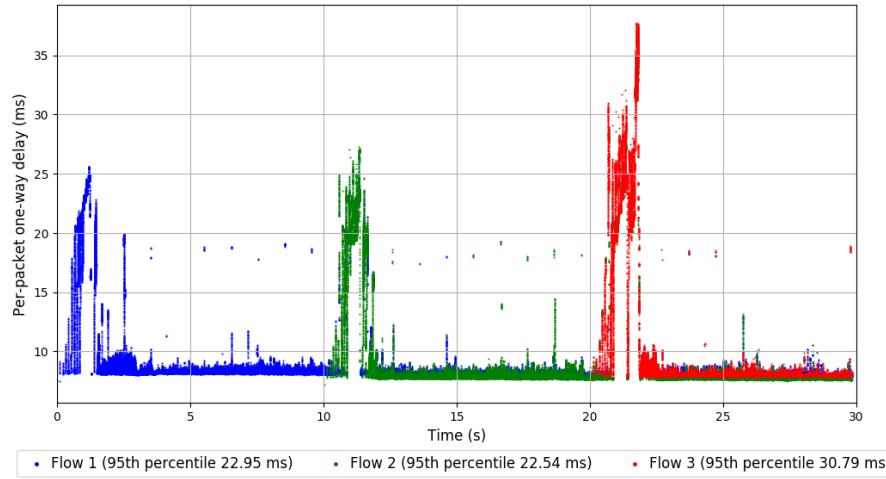
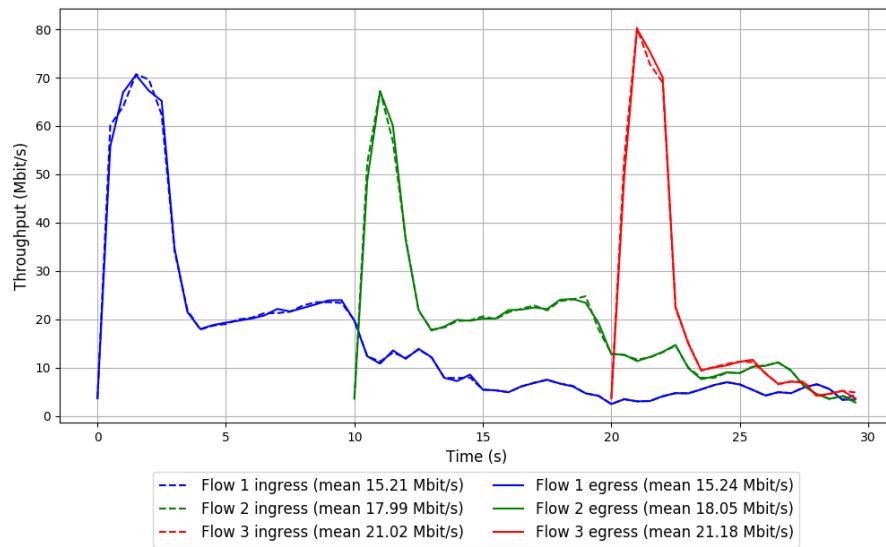


Run 5: Statistics of TCP Vegas

```
Start at: 2018-03-27 15:54:55
End at: 2018-03-27 15:55:25
Local clock offset: 8.024 ms
Remote clock offset: 58.661 ms

# Below is generated by plot.py at 2018-03-27 22:22:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 34.18 Mbit/s
95th percentile per-packet one-way delay: 24.177 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 15.24 Mbit/s
95th percentile per-packet one-way delay: 22.948 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 18.05 Mbit/s
95th percentile per-packet one-way delay: 22.538 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 21.18 Mbit/s
95th percentile per-packet one-way delay: 30.785 ms
Loss rate: 0.32%
```

Run 5: Report of TCP Vegas — Data Link

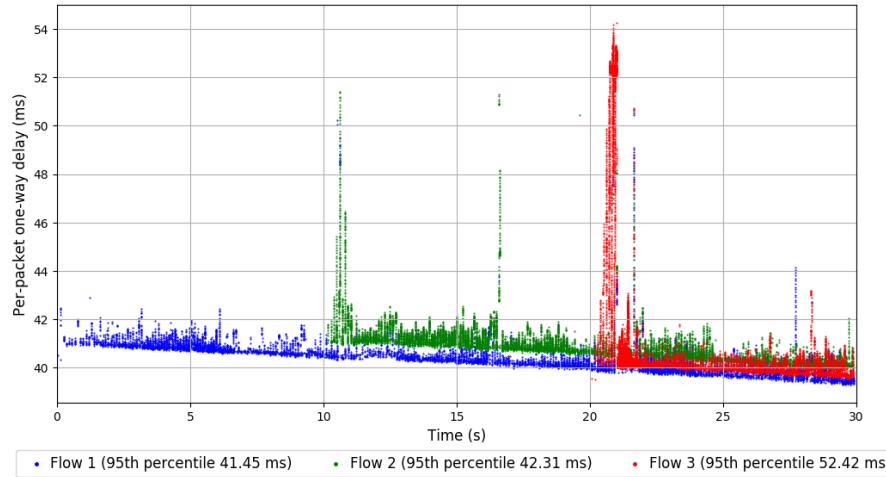
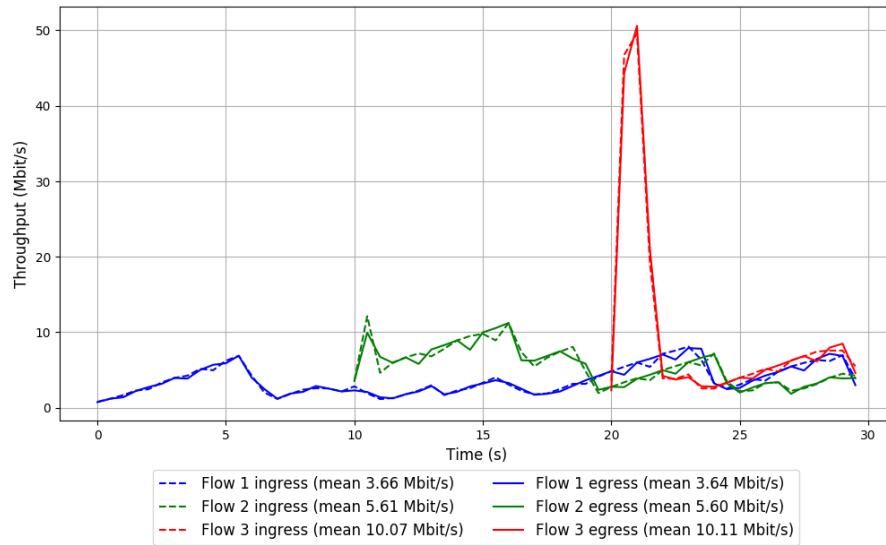


Run 6: Statistics of TCP Vegas

```
Start at: 2018-03-27 16:19:50
End at: 2018-03-27 16:20:20
Local clock offset: 9.144 ms
Remote clock offset: 9.94 ms

# Below is generated by plot.py at 2018-03-27 22:22:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 10.68 Mbit/s
95th percentile per-packet one-way delay: 48.231 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 3.64 Mbit/s
95th percentile per-packet one-way delay: 41.450 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 5.60 Mbit/s
95th percentile per-packet one-way delay: 42.306 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 10.11 Mbit/s
95th percentile per-packet one-way delay: 52.424 ms
Loss rate: 0.65%
```

Run 6: Report of TCP Vegas — Data Link

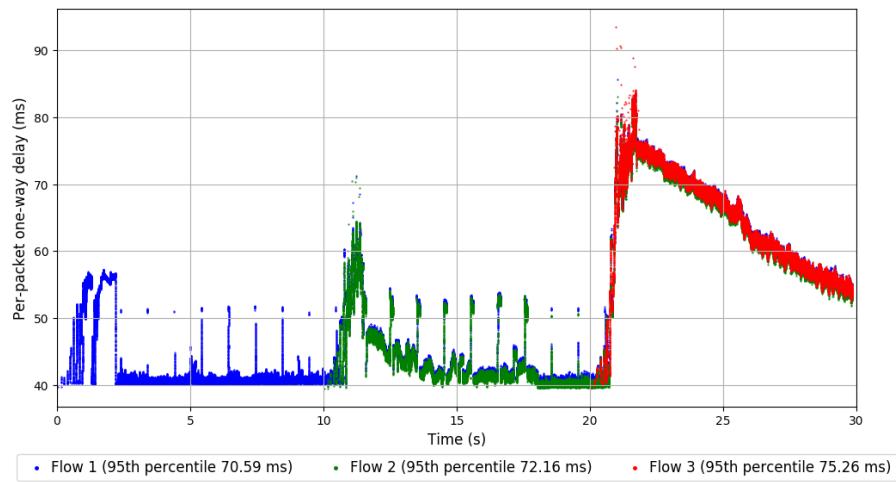
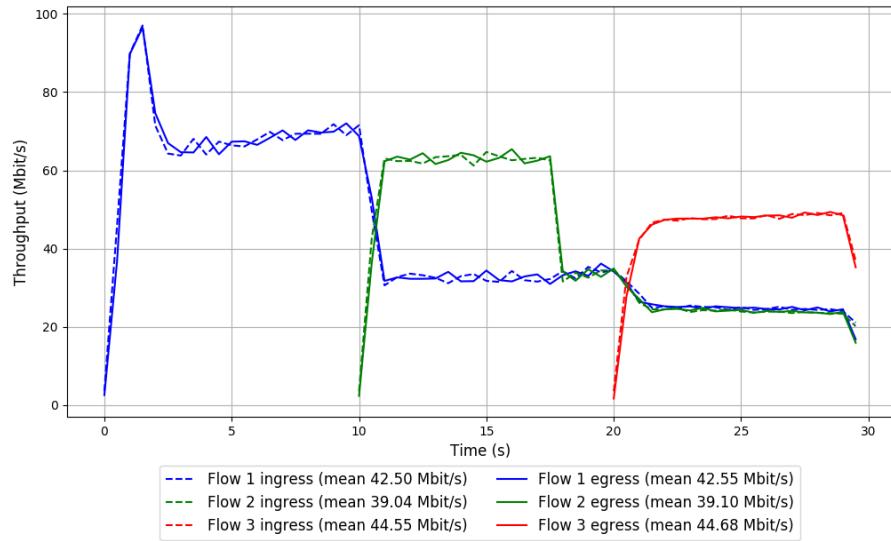


Run 7: Statistics of TCP Vegas

```
Start at: 2018-03-27 16:45:16
End at: 2018-03-27 16:45:46
Local clock offset: 8.43 ms
Remote clock offset: -26.298 ms

# Below is generated by plot.py at 2018-03-27 22:22:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.22 Mbit/s
95th percentile per-packet one-way delay: 73.460 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 42.55 Mbit/s
95th percentile per-packet one-way delay: 70.595 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 39.10 Mbit/s
95th percentile per-packet one-way delay: 72.157 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 44.68 Mbit/s
95th percentile per-packet one-way delay: 75.262 ms
Loss rate: 0.84%
```

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

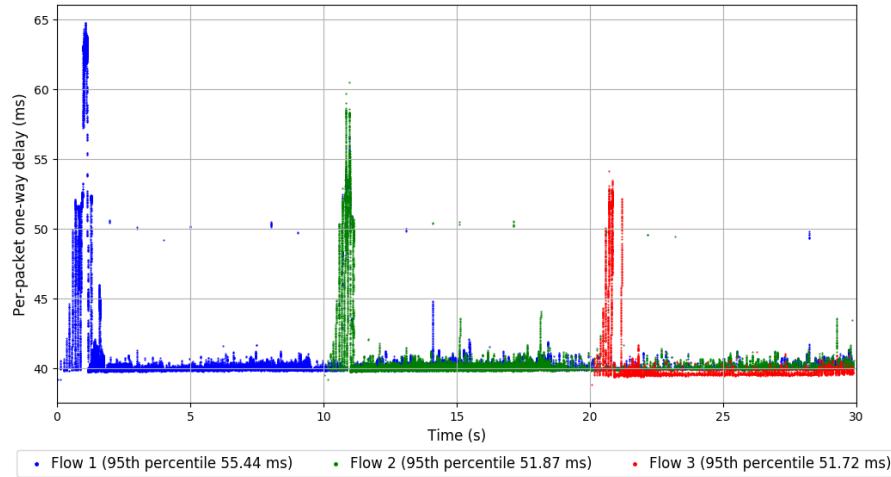
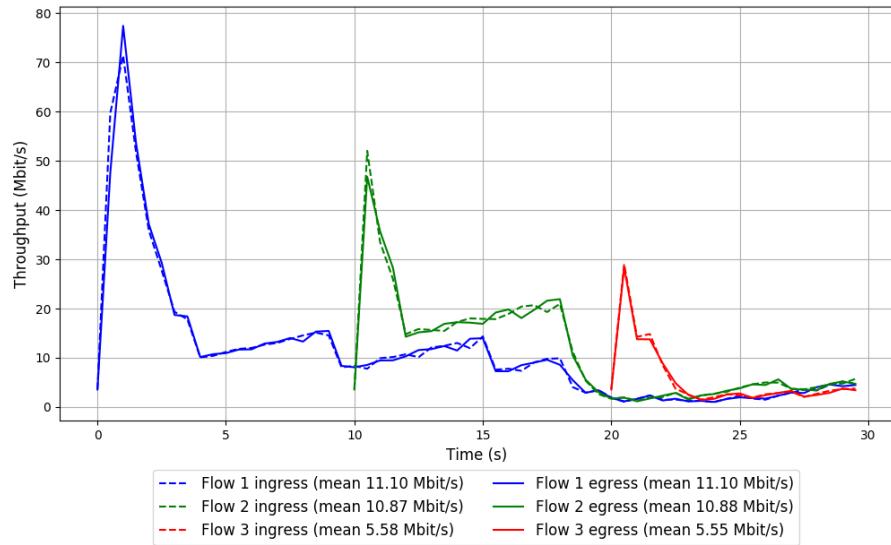


Run 8: Statistics of TCP Vegas

```
Start at: 2018-03-27 17:08:34
End at: 2018-03-27 17:09:04
Local clock offset: -3.053 ms
Remote clock offset: -17.028 ms

# Below is generated by plot.py at 2018-03-27 22:22:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 20.15 Mbit/s
95th percentile per-packet one-way delay: 52.233 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 11.10 Mbit/s
95th percentile per-packet one-way delay: 55.436 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 10.88 Mbit/s
95th percentile per-packet one-way delay: 51.871 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 5.55 Mbit/s
95th percentile per-packet one-way delay: 51.724 ms
Loss rate: 1.62%
```

Run 8: Report of TCP Vegas — Data Link

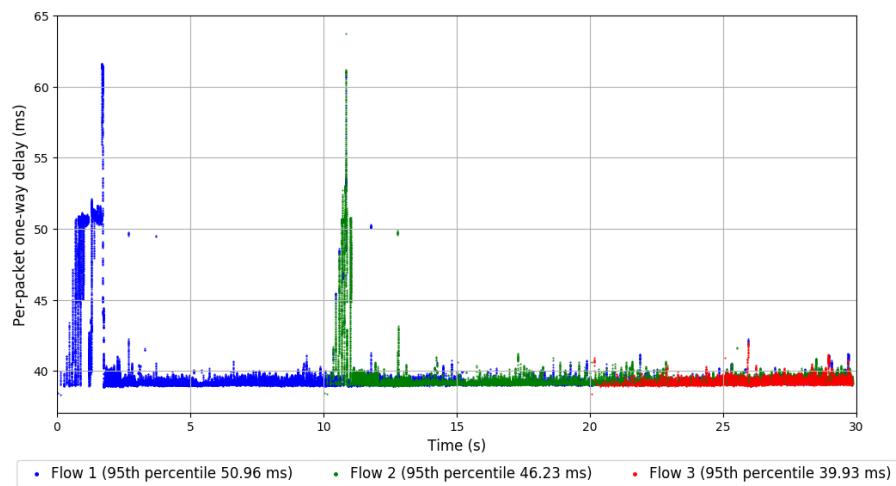
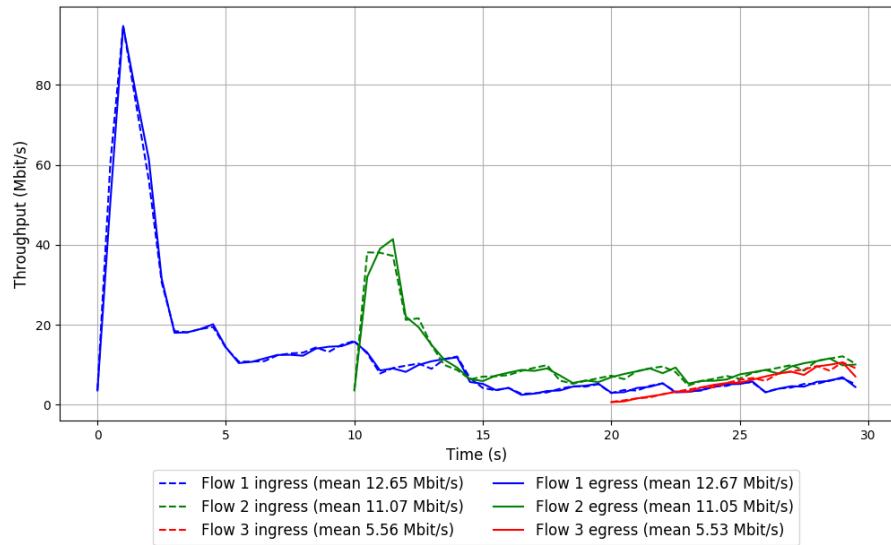


Run 9: Statistics of TCP Vegas

```
Start at: 2018-03-27 17:32:36
End at: 2018-03-27 17:33:06
Local clock offset: 5.879 ms
Remote clock offset: -13.685 ms

# Below is generated by plot.py at 2018-03-27 22:22:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 21.82 Mbit/s
95th percentile per-packet one-way delay: 50.773 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 12.67 Mbit/s
95th percentile per-packet one-way delay: 50.960 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 11.05 Mbit/s
95th percentile per-packet one-way delay: 46.234 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 5.53 Mbit/s
95th percentile per-packet one-way delay: 39.931 ms
Loss rate: 2.11%
```

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



Run 10: Statistics of TCP Vegas

Start at: 2018-03-27 17:55:38  
End at: 2018-03-27 17:56:08  
Local clock offset: 6.941 ms  
Remote clock offset: -11.005 ms

Run 10: Report of TCP Vegas — Data Link

Figure is missing

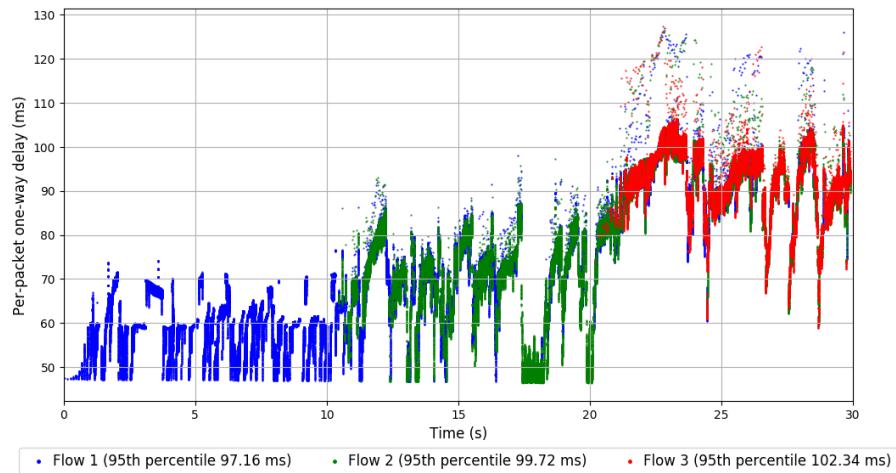
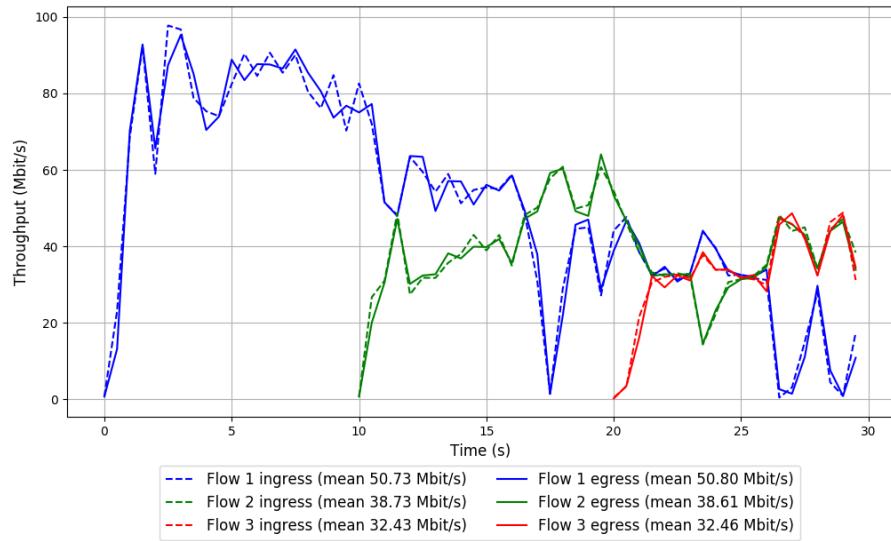
Figure is missing

Run 1: Statistics of Verus

```
Start at: 2018-03-27 14:34:56
End at: 2018-03-27 14:35:26
Local clock offset: -0.952 ms
Remote clock offset: 5.091 ms

# Below is generated by plot.py at 2018-03-27 22:22:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.04 Mbit/s
95th percentile per-packet one-way delay: 99.335 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 50.80 Mbit/s
95th percentile per-packet one-way delay: 97.158 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 38.61 Mbit/s
95th percentile per-packet one-way delay: 99.721 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 32.46 Mbit/s
95th percentile per-packet one-way delay: 102.338 ms
Loss rate: 1.06%
```

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



Run 2: Statistics of Verus

/home/ubuntu/pantheon\_data/2018-03-27T14-15-China-to-AWS-Korea-10-runs-3-flows/verus\_stats\_1

Run 2: Report of Verus — Data Link

Figure is missing

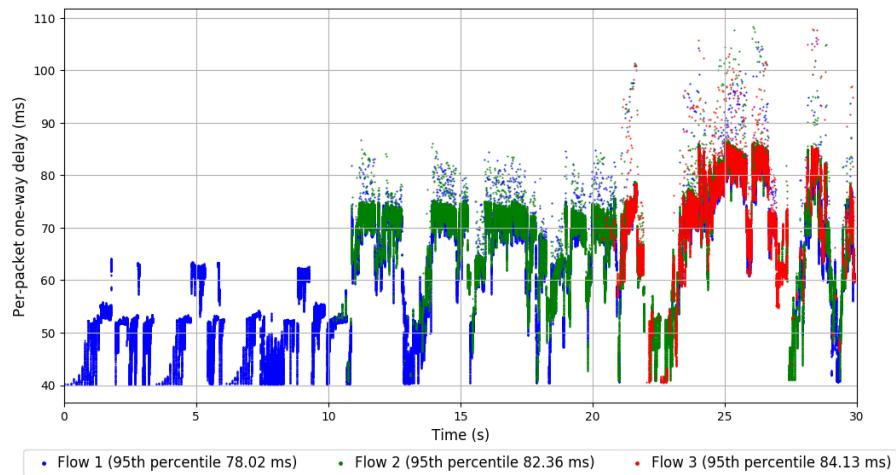
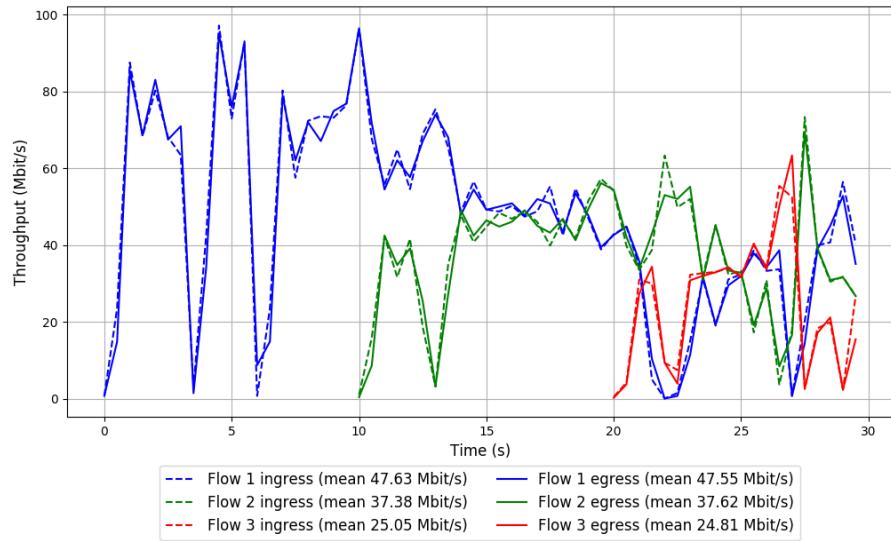
Figure is missing

Run 3: Statistics of Verus

```
Start at: 2018-03-27 15:24:00
End at: 2018-03-27 15:24:30
Local clock offset: -0.497 ms
Remote clock offset: 25.838 ms

# Below is generated by plot.py at 2018-03-27 22:22:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.60 Mbit/s
95th percentile per-packet one-way delay: 81.582 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 47.55 Mbit/s
95th percentile per-packet one-way delay: 78.023 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 37.62 Mbit/s
95th percentile per-packet one-way delay: 82.361 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 24.81 Mbit/s
95th percentile per-packet one-way delay: 84.131 ms
Loss rate: 2.40%
```

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

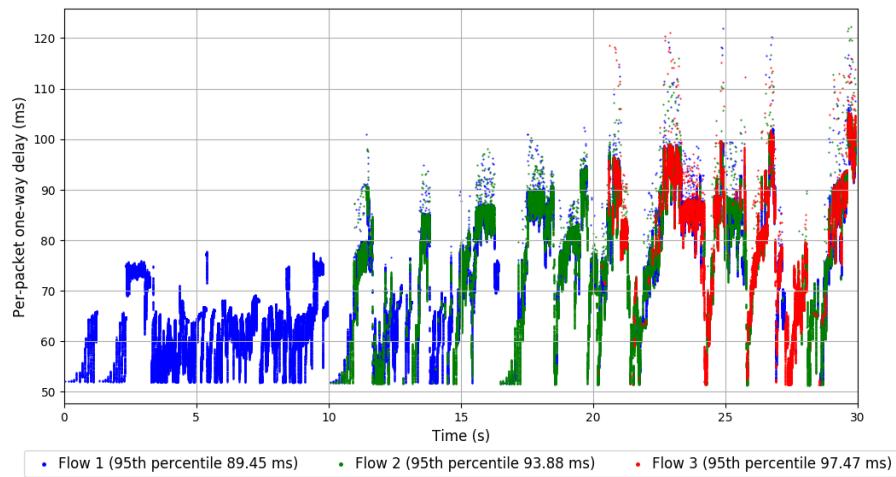
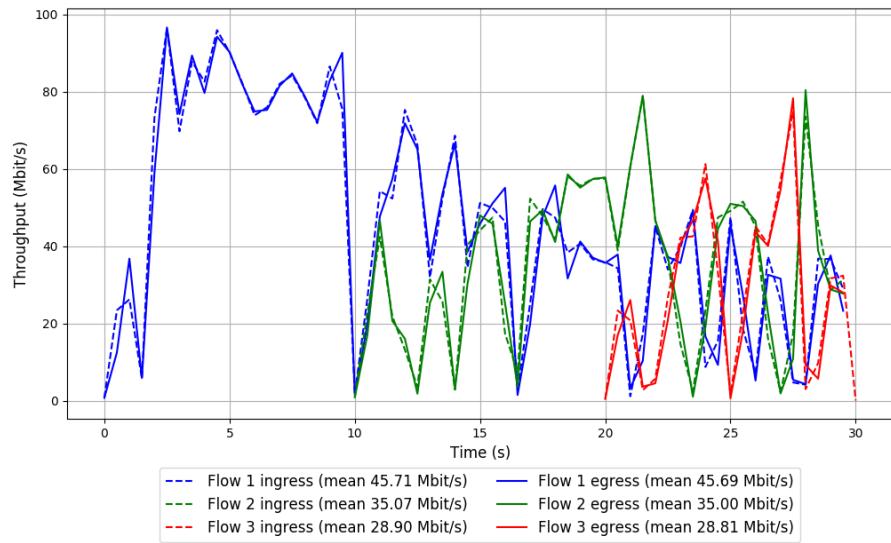


Run 4: Statistics of Verus

```
Start at: 2018-03-27 15:48:10
End at: 2018-03-27 15:48:40
Local clock offset: 6.413 ms
Remote clock offset: 19.199 ms

# Below is generated by plot.py at 2018-03-27 22:22:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.42 Mbit/s
95th percentile per-packet one-way delay: 93.009 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 45.69 Mbit/s
95th percentile per-packet one-way delay: 89.454 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 35.00 Mbit/s
95th percentile per-packet one-way delay: 93.879 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 28.81 Mbit/s
95th percentile per-packet one-way delay: 97.473 ms
Loss rate: 1.88%
```

### Run 4: Report of Verus — Data Link

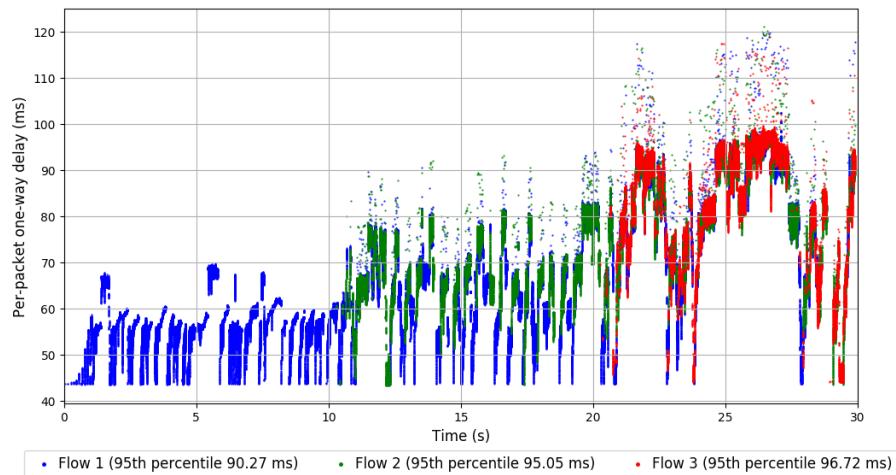
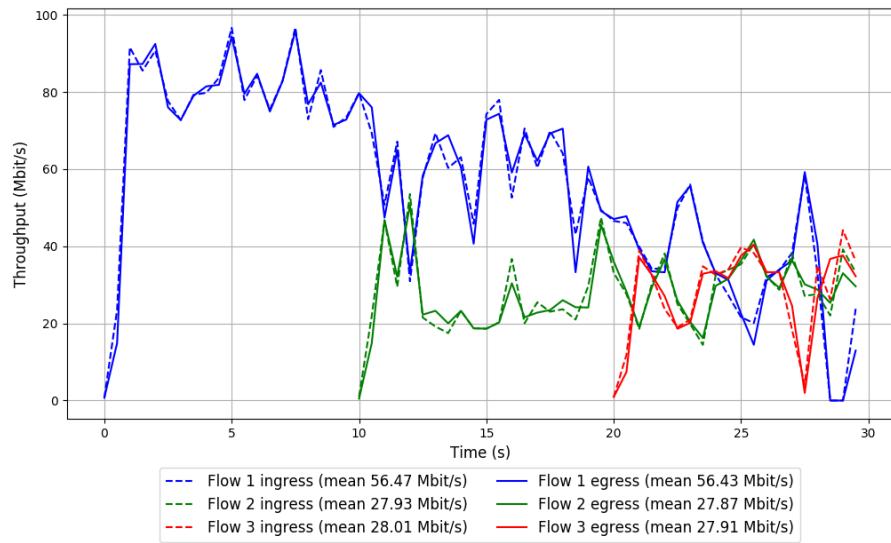


Run 5: Statistics of Verus

```
Start at: 2018-03-27 16:12:25
End at: 2018-03-27 16:12:55
Local clock offset: 9.871 ms
Remote clock offset: 21.508 ms

# Below is generated by plot.py at 2018-03-27 22:22:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.08 Mbit/s
95th percentile per-packet one-way delay: 93.875 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 56.43 Mbit/s
95th percentile per-packet one-way delay: 90.273 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 27.87 Mbit/s
95th percentile per-packet one-way delay: 95.052 ms
Loss rate: 0.97%
-- Flow 3:
Average throughput: 27.91 Mbit/s
95th percentile per-packet one-way delay: 96.715 ms
Loss rate: 2.02%
```

Run 5: Report of Verus — Data Link

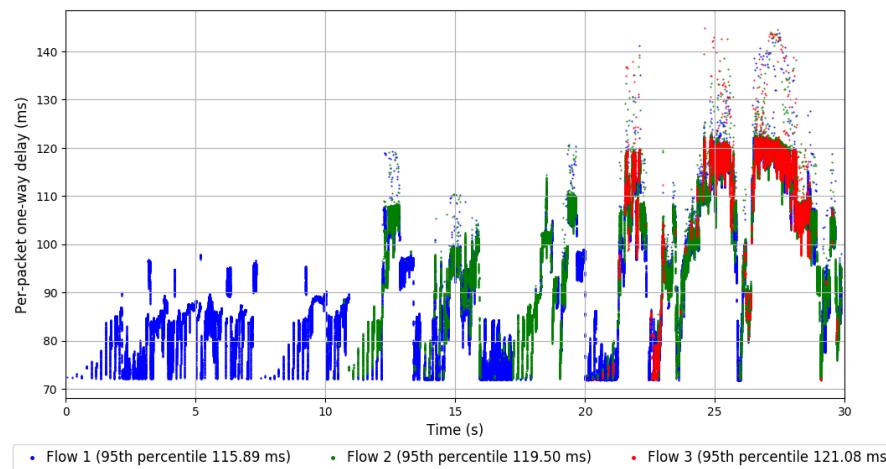
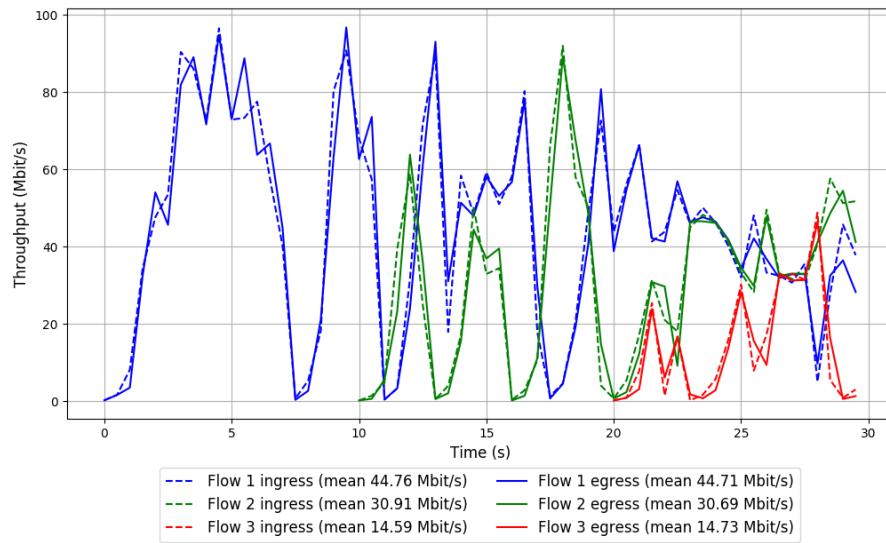


Run 6: Statistics of Verus

```
Start at: 2018-03-27 16:38:30
End at: 2018-03-27 16:39:00
Local clock offset: 9.876 ms
Remote clock offset: -53.48 ms

# Below is generated by plot.py at 2018-03-27 22:22:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 69.81 Mbit/s
95th percentile per-packet one-way delay: 118.910 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 44.71 Mbit/s
95th percentile per-packet one-way delay: 115.890 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 30.69 Mbit/s
95th percentile per-packet one-way delay: 119.498 ms
Loss rate: 1.71%
-- Flow 3:
Average throughput: 14.73 Mbit/s
95th percentile per-packet one-way delay: 121.081 ms
Loss rate: 0.80%
```

Run 6: Report of Verus — Data Link

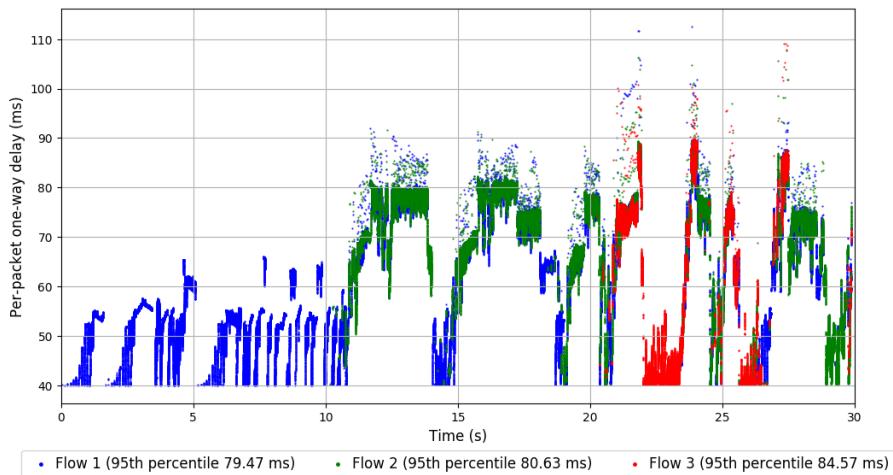
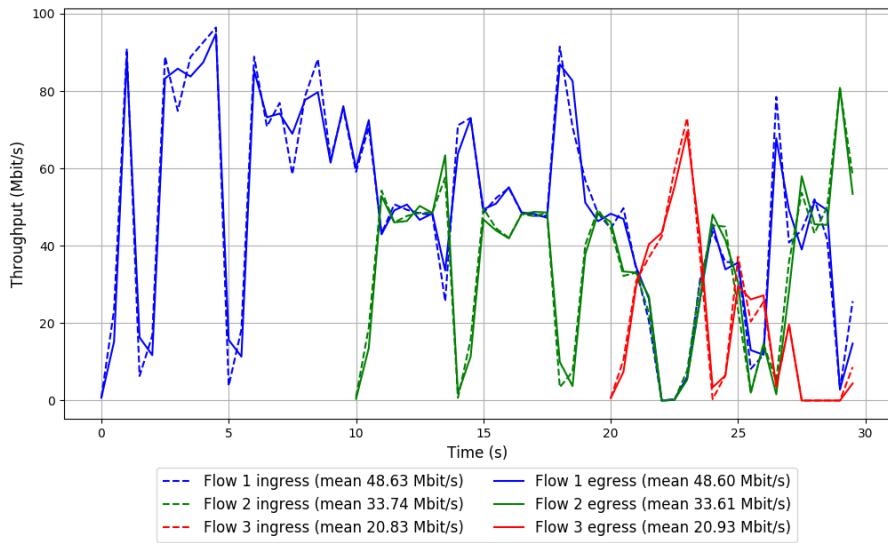


Run 7: Statistics of Verus

```
Start at: 2018-03-27 17:01:41
End at: 2018-03-27 17:02:11
Local clock offset: -1.2 ms
Remote clock offset: -18.078 ms

# Below is generated by plot.py at 2018-03-27 22:23:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.78 Mbit/s
95th percentile per-packet one-way delay: 80.035 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 48.60 Mbit/s
95th percentile per-packet one-way delay: 79.468 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 33.61 Mbit/s
95th percentile per-packet one-way delay: 80.627 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 20.93 Mbit/s
95th percentile per-packet one-way delay: 84.573 ms
Loss rate: 1.06%
```

Run 7: Report of Verus — Data Link

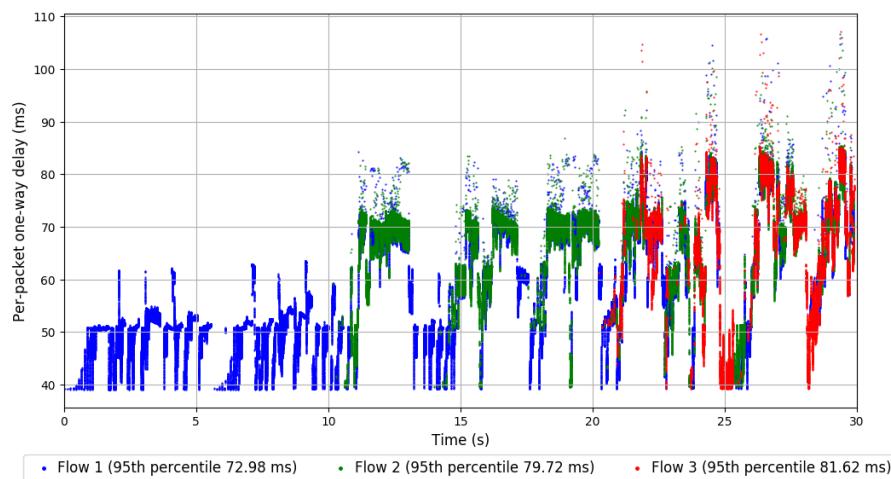
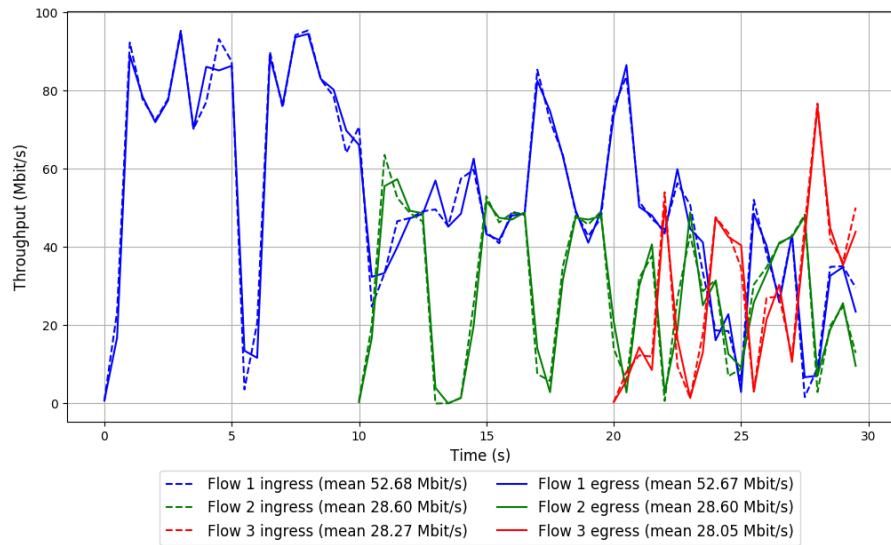


Run 8: Statistics of Verus

```
Start at: 2018-03-27 17:25:37
End at: 2018-03-27 17:26:07
Local clock offset: 3.093 ms
Remote clock offset: -19.117 ms

# Below is generated by plot.py at 2018-03-27 22:23:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.87 Mbit/s
95th percentile per-packet one-way delay: 77.990 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 52.67 Mbit/s
95th percentile per-packet one-way delay: 72.981 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 28.60 Mbit/s
95th percentile per-packet one-way delay: 79.720 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 28.05 Mbit/s
95th percentile per-packet one-way delay: 81.619 ms
Loss rate: 2.19%
```

Run 8: Report of Verus — Data Link

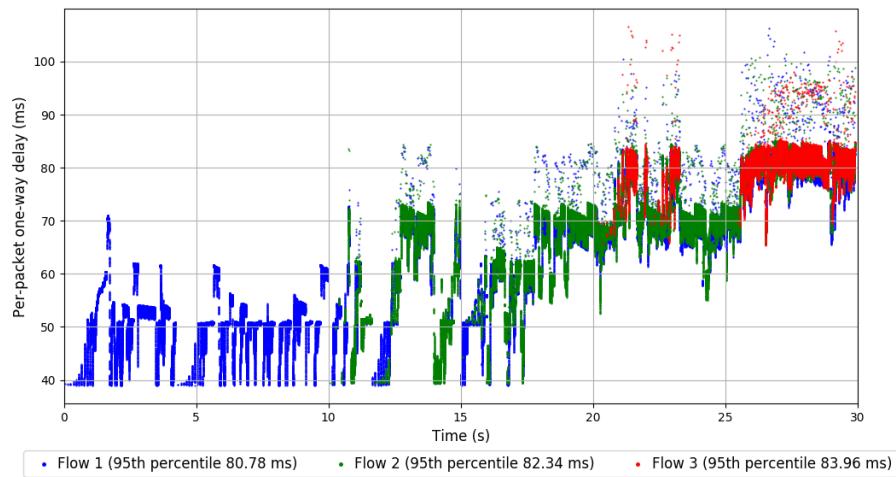
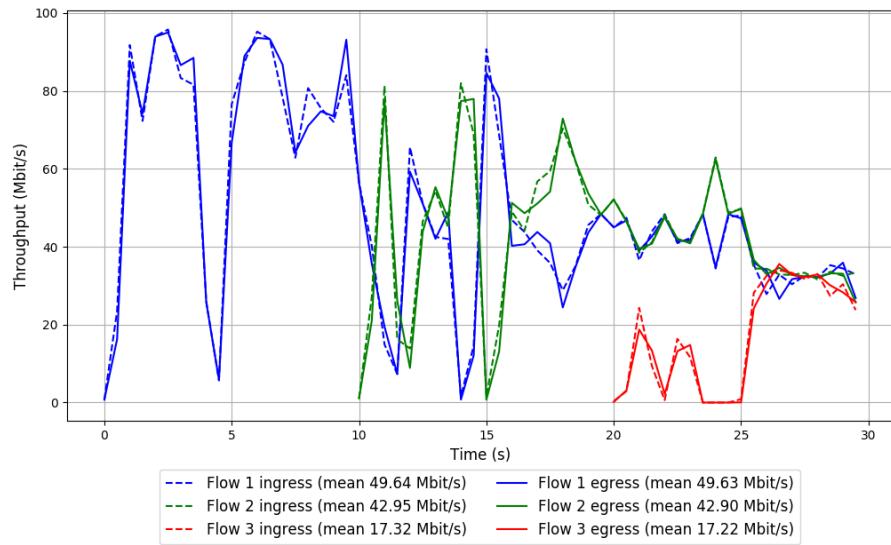


Run 9: Statistics of Verus

```
Start at: 2018-03-27 17:49:13
End at: 2018-03-27 17:49:43
Local clock offset: 8.869 ms
Remote clock offset: -10.915 ms

# Below is generated by plot.py at 2018-03-27 22:23:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.79 Mbit/s
95th percentile per-packet one-way delay: 82.224 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 49.63 Mbit/s
95th percentile per-packet one-way delay: 80.781 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 42.90 Mbit/s
95th percentile per-packet one-way delay: 82.342 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 17.22 Mbit/s
95th percentile per-packet one-way delay: 83.962 ms
Loss rate: 0.80%
```

Run 9: Report of Verus — Data Link

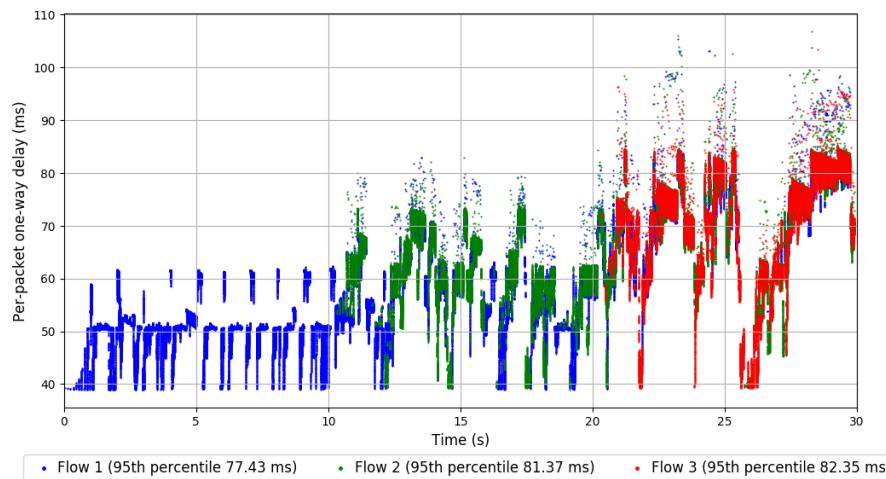
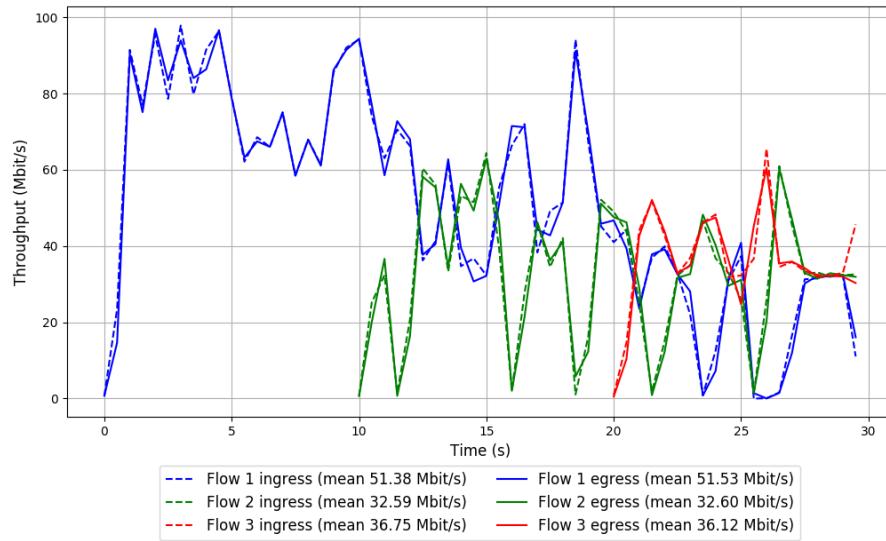


Run 10: Statistics of Verus

```
Start at: 2018-03-27 18:12:00
End at: 2018-03-27 18:12:30
Local clock offset: 2.779 ms
Remote clock offset: -9.353 ms

# Below is generated by plot.py at 2018-03-27 22:23:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.05 Mbit/s
95th percentile per-packet one-way delay: 80.688 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 51.53 Mbit/s
95th percentile per-packet one-way delay: 77.434 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 32.60 Mbit/s
95th percentile per-packet one-way delay: 81.368 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 36.12 Mbit/s
95th percentile per-packet one-way delay: 82.350 ms
Loss rate: 2.97%
```

Run 10: Report of Verus — Data Link

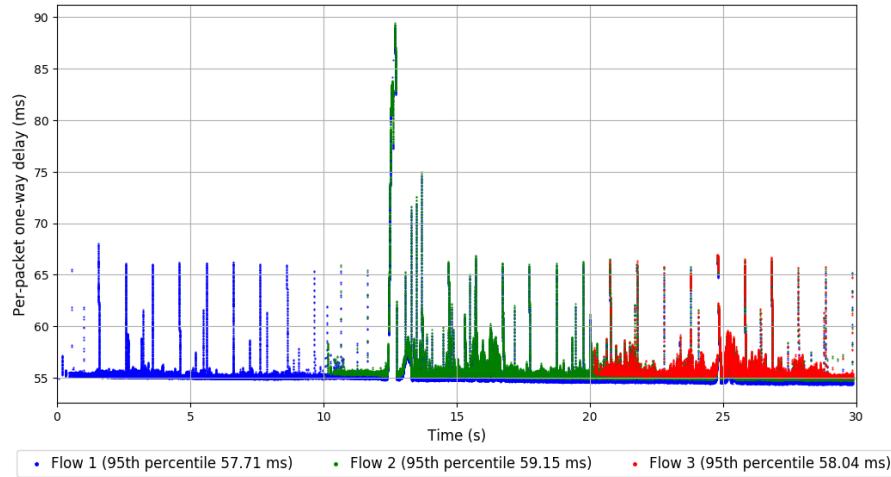
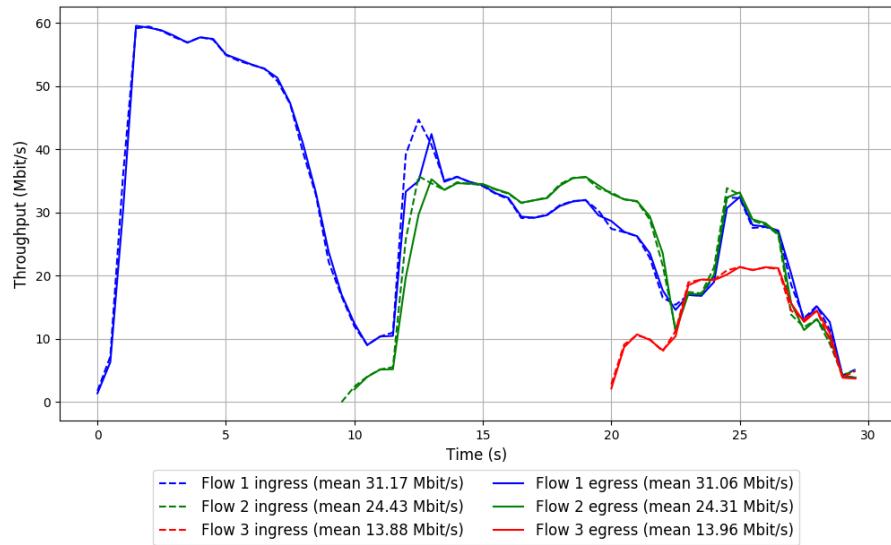


Run 1: Statistics of Copa

```
Start at: 2018-03-27 14:38:51
End at: 2018-03-27 14:39:21
Local clock offset: -0.871 ms
Remote clock offset: -10.94 ms

# Below is generated by plot.py at 2018-03-27 22:23:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 51.82 Mbit/s
95th percentile per-packet one-way delay: 58.222 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 31.06 Mbit/s
95th percentile per-packet one-way delay: 57.707 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 24.31 Mbit/s
95th percentile per-packet one-way delay: 59.150 ms
Loss rate: 1.14%
-- Flow 3:
Average throughput: 13.96 Mbit/s
95th percentile per-packet one-way delay: 58.044 ms
Loss rate: 0.79%
```

## Run 1: Report of Copa — Data Link

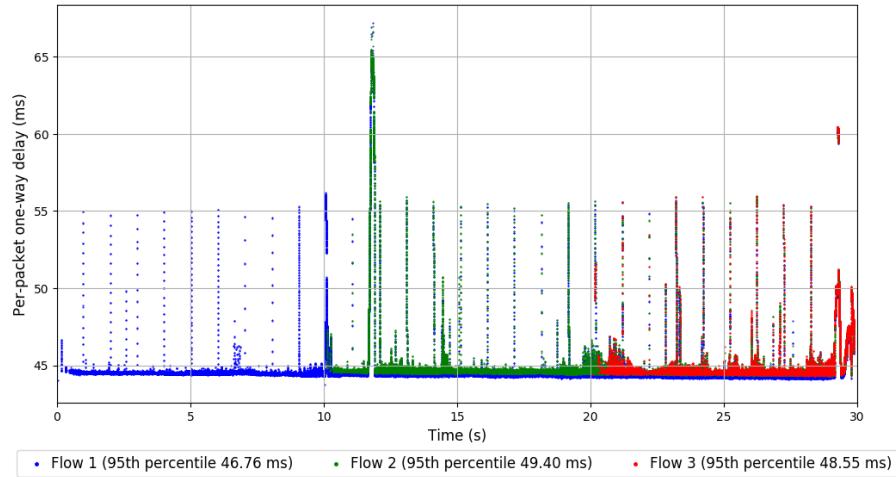
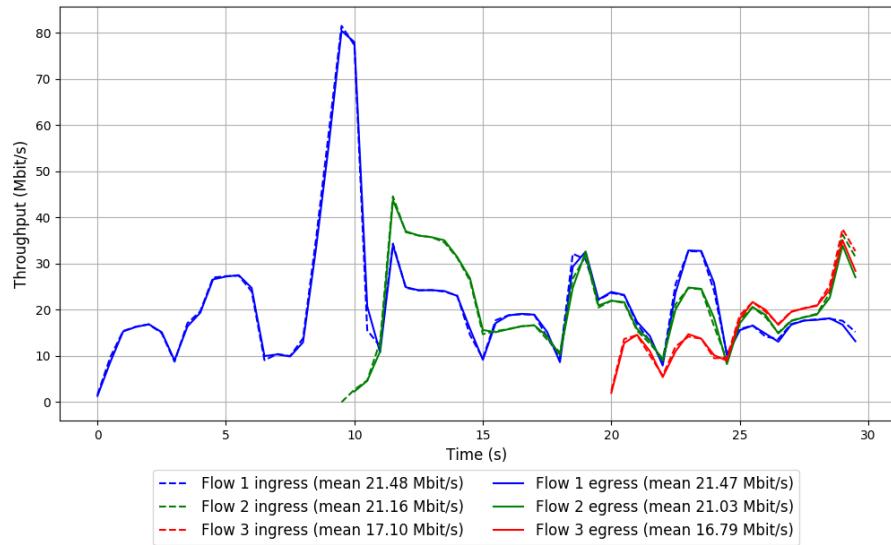


Run 2: Statistics of Copa

```
Start at: 2018-03-27 15:03:18
End at: 2018-03-27 15:03:48
Local clock offset: -1.163 ms
Remote clock offset: -21.856 ms

# Below is generated by plot.py at 2018-03-27 22:23:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 40.97 Mbit/s
95th percentile per-packet one-way delay: 48.124 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 21.47 Mbit/s
95th percentile per-packet one-way delay: 46.758 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 21.03 Mbit/s
95th percentile per-packet one-way delay: 49.398 ms
Loss rate: 1.14%
-- Flow 3:
Average throughput: 16.79 Mbit/s
95th percentile per-packet one-way delay: 48.555 ms
Loss rate: 2.84%
```

## Run 2: Report of Copa — Data Link

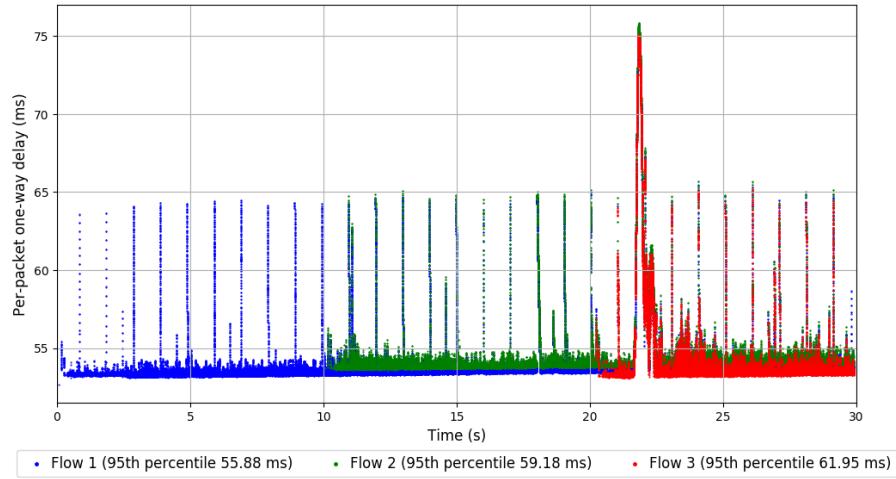
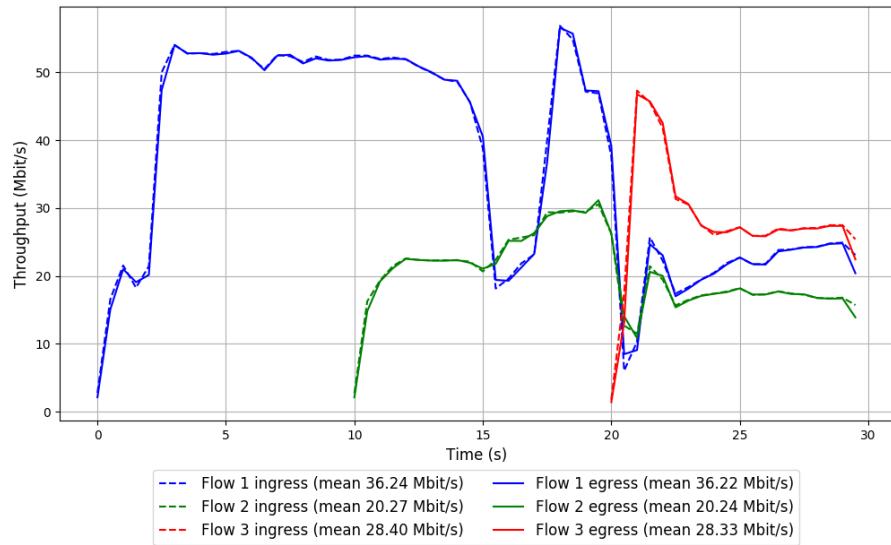


Run 3: Statistics of Copa

```
Start at: 2018-03-27 15:28:01
End at: 2018-03-27 15:28:31
Local clock offset: -0.396 ms
Remote clock offset: 17.755 ms

# Below is generated by plot.py at 2018-03-27 22:24:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 58.98 Mbit/s
95th percentile per-packet one-way delay: 58.271 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 36.22 Mbit/s
95th percentile per-packet one-way delay: 55.875 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 20.24 Mbit/s
95th percentile per-packet one-way delay: 59.176 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 28.33 Mbit/s
95th percentile per-packet one-way delay: 61.947 ms
Loss rate: 1.28%
```

Run 3: Report of Copa — Data Link

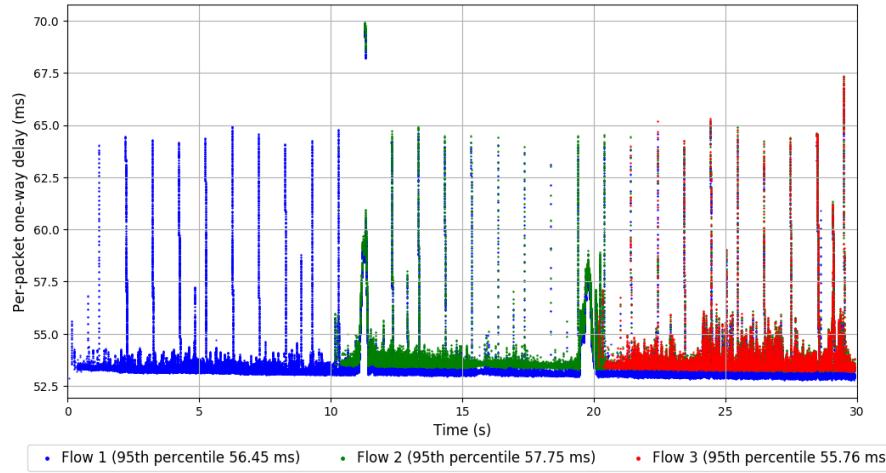
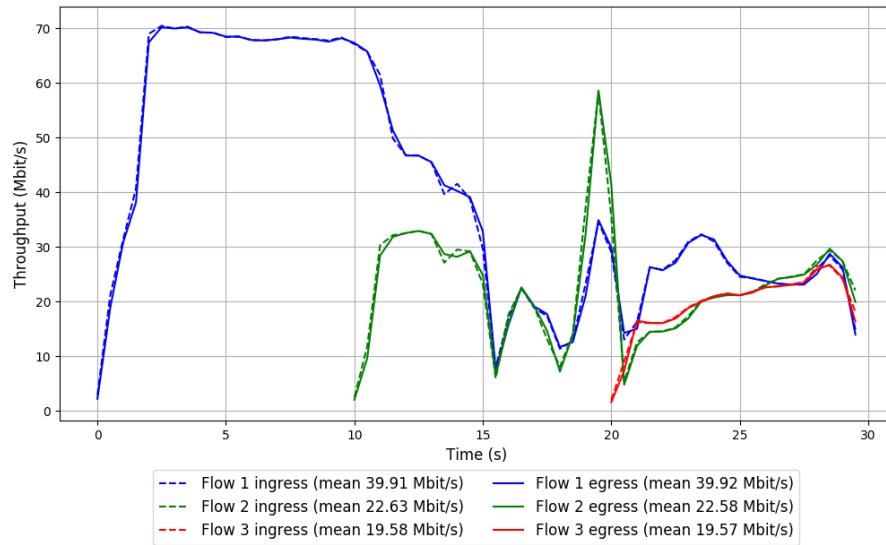


Run 4: Statistics of Copa

```
Start at: 2018-03-27 15:52:01
End at: 2018-03-27 15:52:31
Local clock offset: 7.569 ms
Remote clock offset: 14.425 ms

# Below is generated by plot.py at 2018-03-27 22:24:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 61.37 Mbit/s
95th percentile per-packet one-way delay: 57.055 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 39.92 Mbit/s
95th percentile per-packet one-way delay: 56.449 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 22.58 Mbit/s
95th percentile per-packet one-way delay: 57.750 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 19.57 Mbit/s
95th percentile per-packet one-way delay: 55.764 ms
Loss rate: 1.20%
```

## Run 4: Report of Copa — Data Link

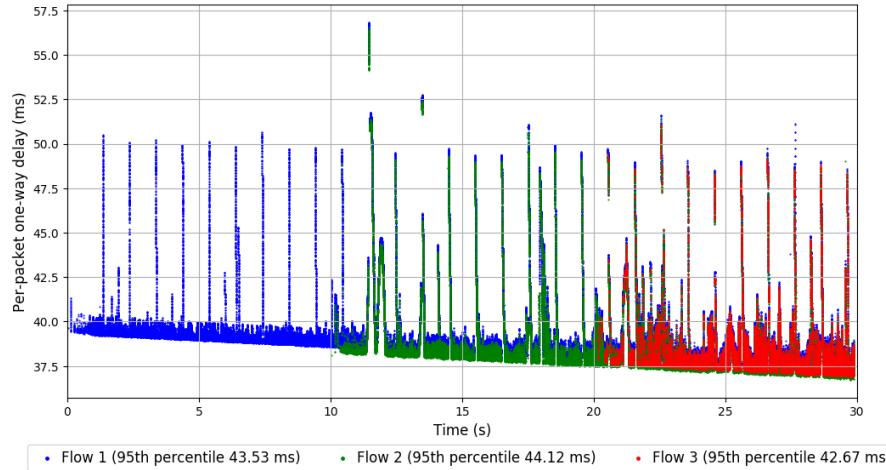
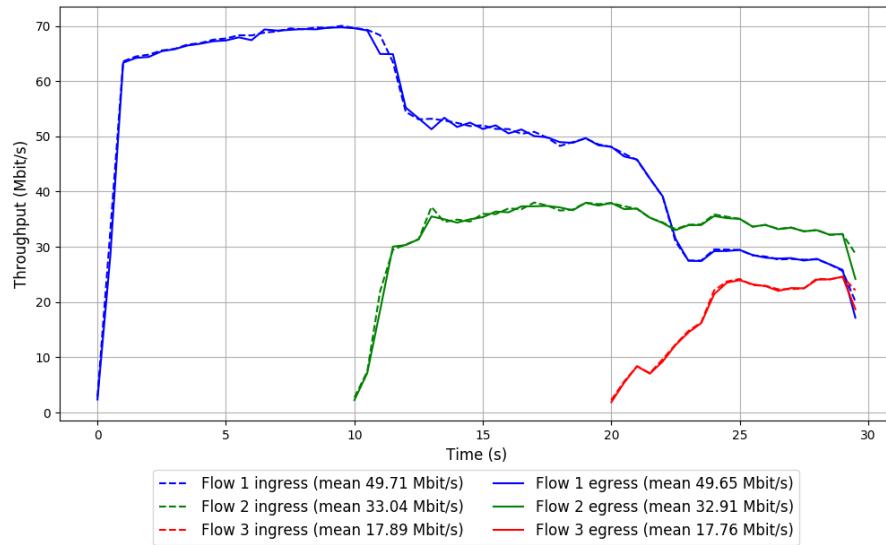


Run 5: Statistics of Copa

```
Start at: 2018-03-27 16:16:51
End at: 2018-03-27 16:17:21
Local clock offset: 9.502 ms
Remote clock offset: 24.173 ms

# Below is generated by plot.py at 2018-03-27 22:25:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.36 Mbit/s
95th percentile per-packet one-way delay: 43.681 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 49.65 Mbit/s
95th percentile per-packet one-way delay: 43.528 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 32.91 Mbit/s
95th percentile per-packet one-way delay: 44.117 ms
Loss rate: 0.92%
-- Flow 3:
Average throughput: 17.76 Mbit/s
95th percentile per-packet one-way delay: 42.667 ms
Loss rate: 1.78%
```

Run 5: Report of Copa — Data Link

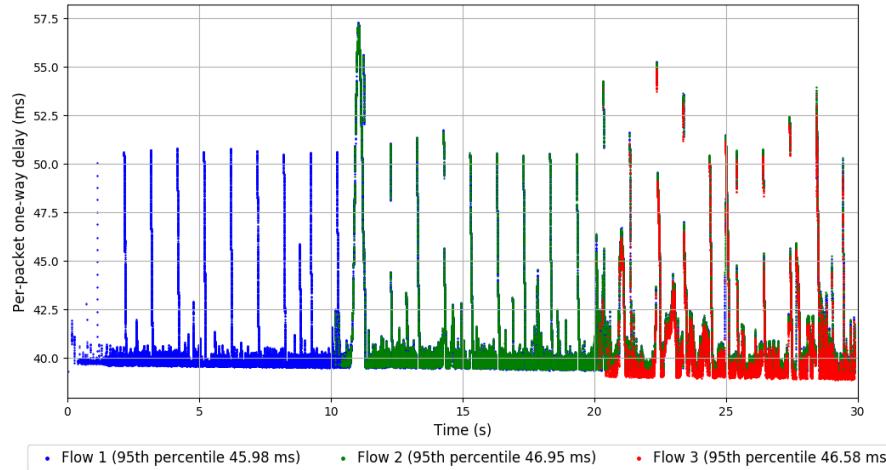
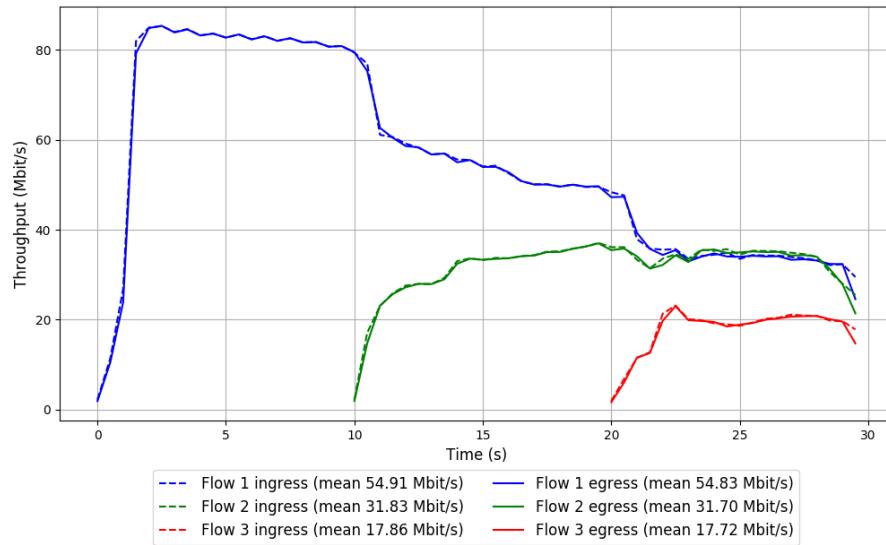


Run 6: Statistics of Copa

```
Start at: 2018-03-27 16:42:31
End at: 2018-03-27 16:43:01
Local clock offset: 10.162 ms
Remote clock offset: -24.445 ms

# Below is generated by plot.py at 2018-03-27 22:25:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.71 Mbit/s
95th percentile per-packet one-way delay: 46.281 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 54.83 Mbit/s
95th percentile per-packet one-way delay: 45.978 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 31.70 Mbit/s
95th percentile per-packet one-way delay: 46.950 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 17.72 Mbit/s
95th percentile per-packet one-way delay: 46.578 ms
Loss rate: 2.01%
```

## Run 6: Report of Copa — Data Link

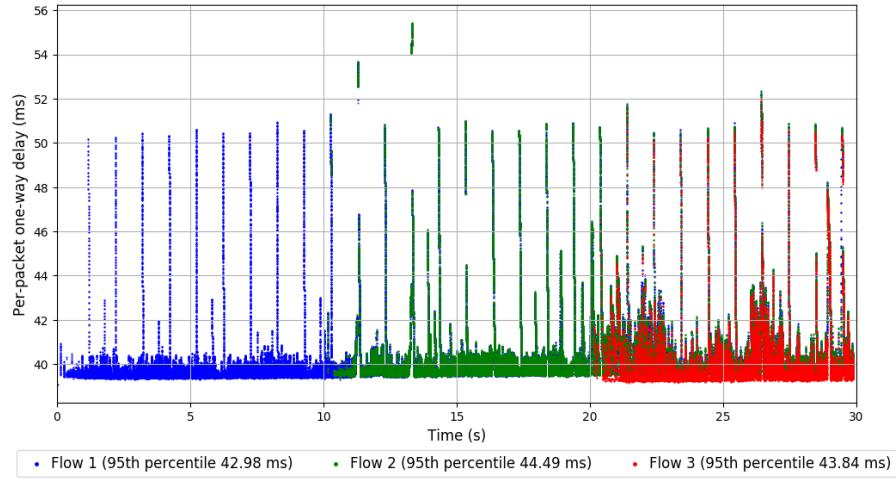
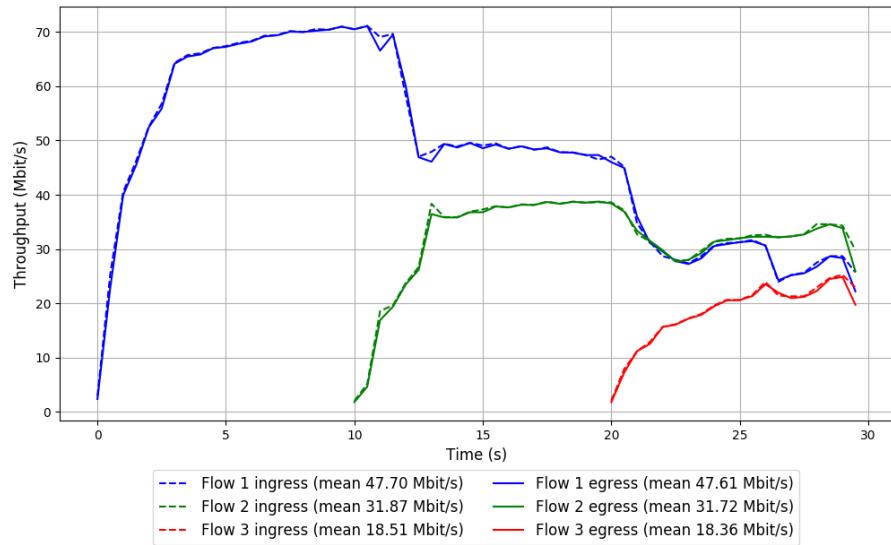


Run 7: Statistics of Copa

```
Start at: 2018-03-27 17:05:40
End at: 2018-03-27 17:06:10
Local clock offset: -2.406 ms
Remote clock offset: -17.22 ms

# Below is generated by plot.py at 2018-03-27 22:25:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 74.73 Mbit/s
95th percentile per-packet one-way delay: 43.515 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 47.61 Mbit/s
95th percentile per-packet one-way delay: 42.980 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 31.72 Mbit/s
95th percentile per-packet one-way delay: 44.488 ms
Loss rate: 0.97%
-- Flow 3:
Average throughput: 18.36 Mbit/s
95th percentile per-packet one-way delay: 43.840 ms
Loss rate: 1.85%
```

Run 7: Report of Copa — Data Link

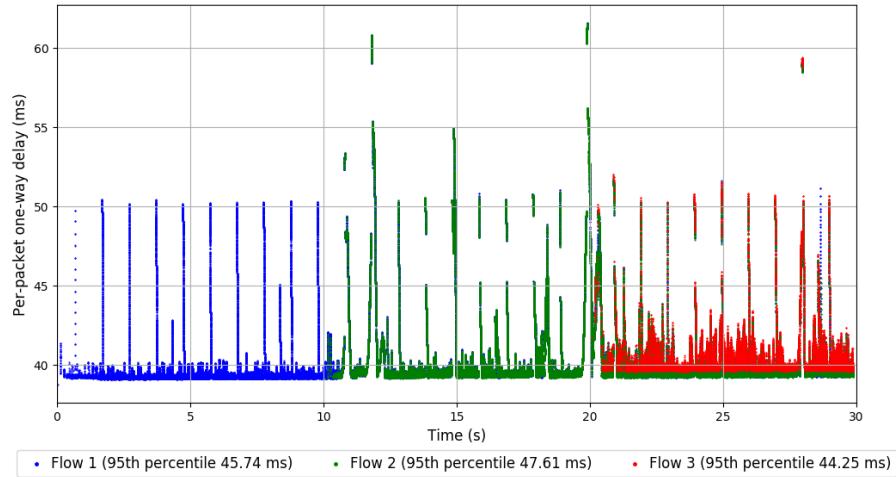
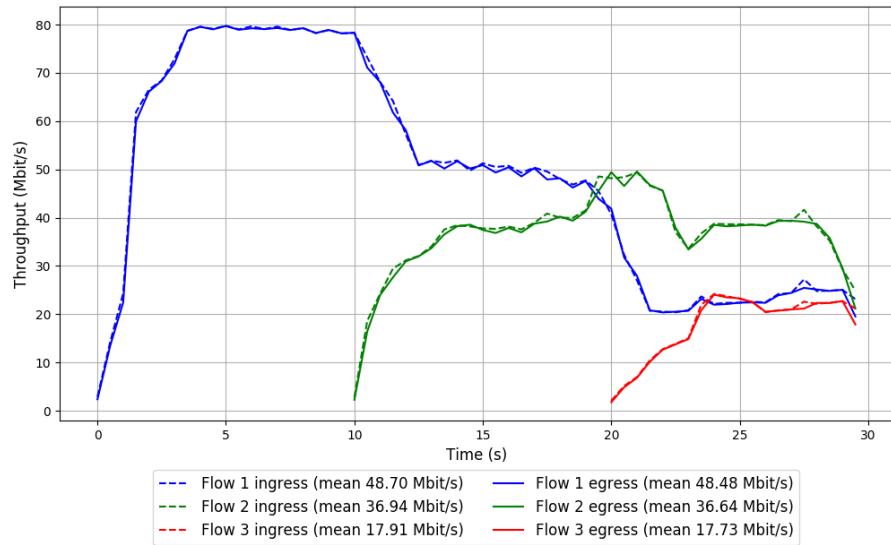


Run 8: Statistics of Copa

```
Start at: 2018-03-27 17:29:39
End at: 2018-03-27 17:30:09
Local clock offset: 5.126 ms
Remote clock offset: -15.384 ms

# Below is generated by plot.py at 2018-03-27 22:25:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.65 Mbit/s
95th percentile per-packet one-way delay: 46.305 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 48.48 Mbit/s
95th percentile per-packet one-way delay: 45.745 ms
Loss rate: 0.81%
-- Flow 2:
Average throughput: 36.64 Mbit/s
95th percentile per-packet one-way delay: 47.609 ms
Loss rate: 1.38%
-- Flow 3:
Average throughput: 17.73 Mbit/s
95th percentile per-packet one-way delay: 44.247 ms
Loss rate: 2.12%
```

Run 8: Report of Copa — Data Link

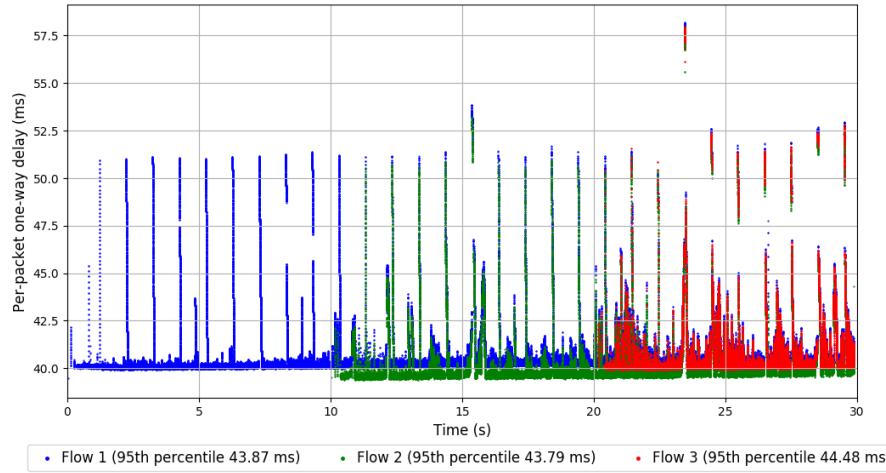
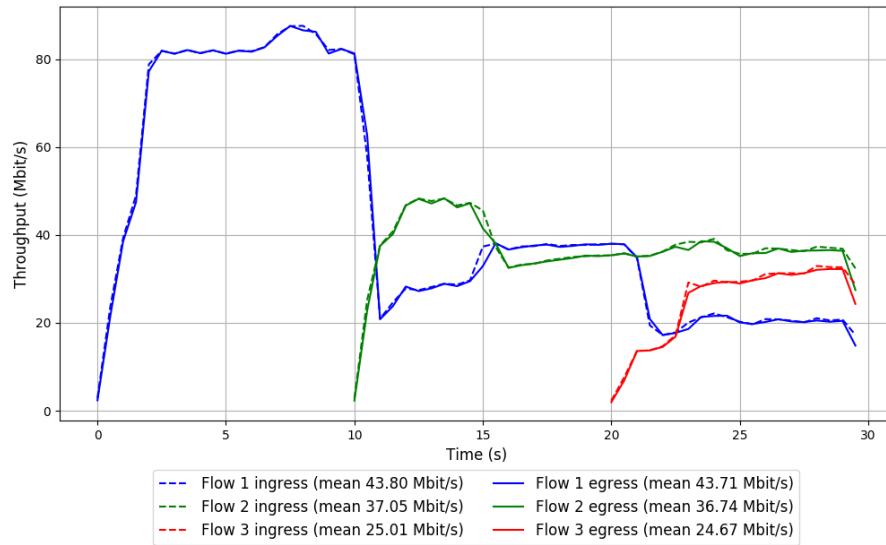


Run 9: Statistics of Copa

```
Start at: 2018-03-27 17:53:01
End at: 2018-03-27 17:53:31
Local clock offset: 8.415 ms
Remote clock offset: -10.974 ms

# Below is generated by plot.py at 2018-03-27 22:25:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.23 Mbit/s
95th percentile per-packet one-way delay: 43.927 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 43.71 Mbit/s
95th percentile per-packet one-way delay: 43.869 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 36.74 Mbit/s
95th percentile per-packet one-way delay: 43.793 ms
Loss rate: 1.34%
-- Flow 3:
Average throughput: 24.67 Mbit/s
95th percentile per-packet one-way delay: 44.482 ms
Loss rate: 2.41%
```

Run 9: Report of Copa — Data Link

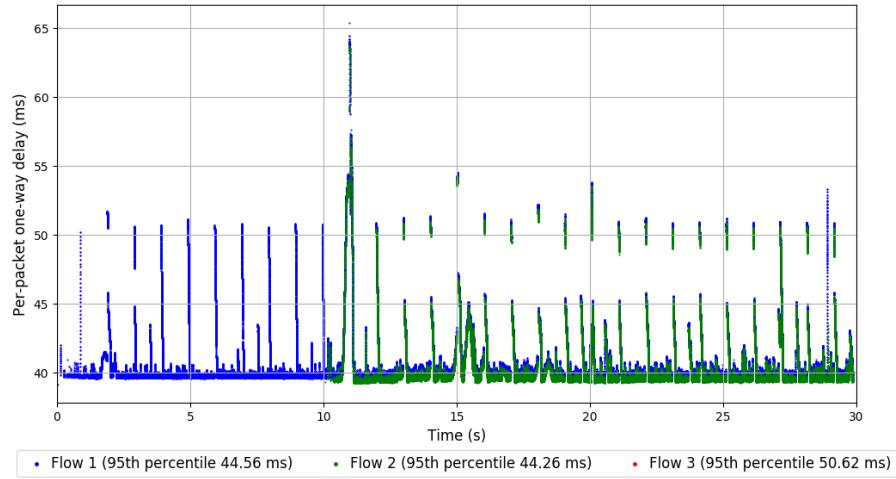
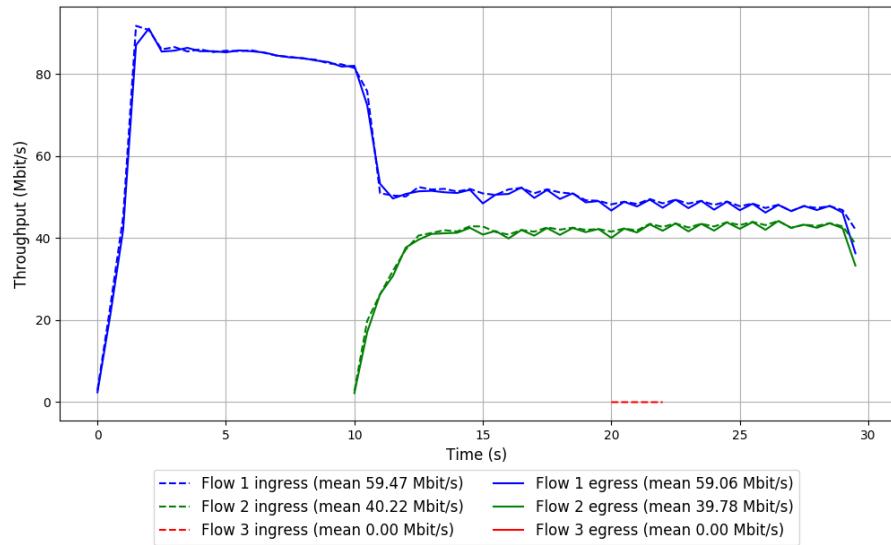


Run 10: Statistics of Copa

```
Start at: 2018-03-27 18:15:56
End at: 2018-03-27 18:16:26
Local clock offset: 2.388 ms
Remote clock offset: -9.305 ms

# Below is generated by plot.py at 2018-03-27 22:26:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.50 Mbit/s
95th percentile per-packet one-way delay: 44.463 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 59.06 Mbit/s
95th percentile per-packet one-way delay: 44.562 ms
Loss rate: 1.03%
-- Flow 2:
Average throughput: 39.78 Mbit/s
95th percentile per-packet one-way delay: 44.259 ms
Loss rate: 1.61%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 50.617 ms
Loss rate: 50.00%
```

Run 10: Report of Copa — Data Link



Run 1: Statistics of FillP

Start at: 2018-03-27 14:29:22  
End at: 2018-03-27 14:29:52  
Local clock offset: -1.325 ms  
Remote clock offset: -16.53 ms

Run 1: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of FillP

Start at: 2018-03-27 14:53:02  
End at: 2018-03-27 14:53:32  
Local clock offset: -1.295 ms  
Remote clock offset: -12.367 ms

Run 2: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of FillP

Start at: 2018-03-27 15:18:23  
End at: 2018-03-27 15:18:53  
Local clock offset: -0.44 ms  
Remote clock offset: 54.487 ms

Run 3: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of FillP

Start at: 2018-03-27 15:43:01  
End at: 2018-03-27 15:43:31  
Local clock offset: 5.092 ms  
Remote clock offset: 29.575 ms

Run 4: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of FillP

Start at: 2018-03-27 16:06:42  
End at: 2018-03-27 16:07:12  
Local clock offset: 10.037 ms  
Remote clock offset: 10.739 ms

Run 5: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of FillP

Start at: 2018-03-27 16:32:32  
End at: 2018-03-27 16:33:02  
Local clock offset: 9.712 ms  
Remote clock offset: -49.391 ms

Run 6: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of FillP

Start at: 2018-03-27 16:56:35  
End at: 2018-03-27 16:57:05  
Local clock offset: 0.387 ms  
Remote clock offset: -21.313 ms

Run 7: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of FillP

Start at: 2018-03-27 17:20:26  
End at: 2018-03-27 17:20:56  
Local clock offset: -1.639 ms  
Remote clock offset: -18.855 ms

Run 8: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of FillP

Start at: 2018-03-27 17:44:09  
End at: 2018-03-27 17:44:39  
Local clock offset: 8.222 ms  
Remote clock offset: -11.096 ms

Run 9: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of FillP

Start at: 2018-03-27 18:06:57  
End at: 2018-03-27 18:07:27  
Local clock offset: 3.452 ms  
Remote clock offset: -9.675 ms

Run 10: Report of FillP — Data Link

Figure is missing

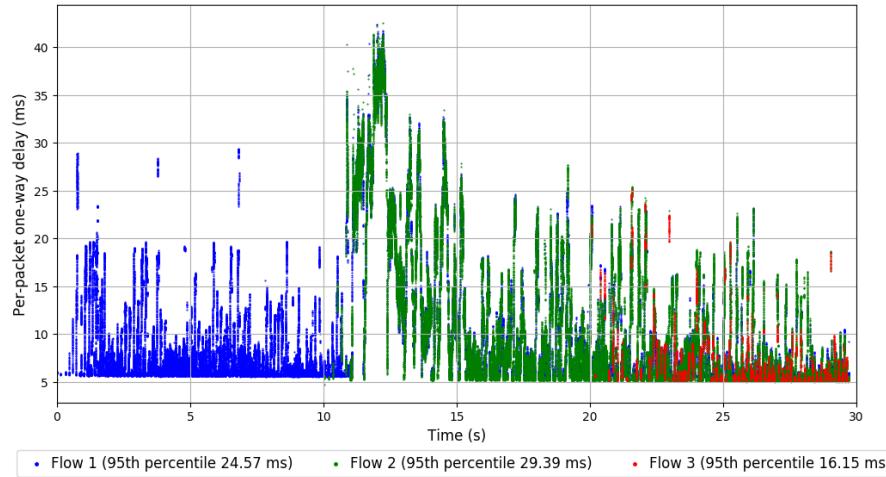
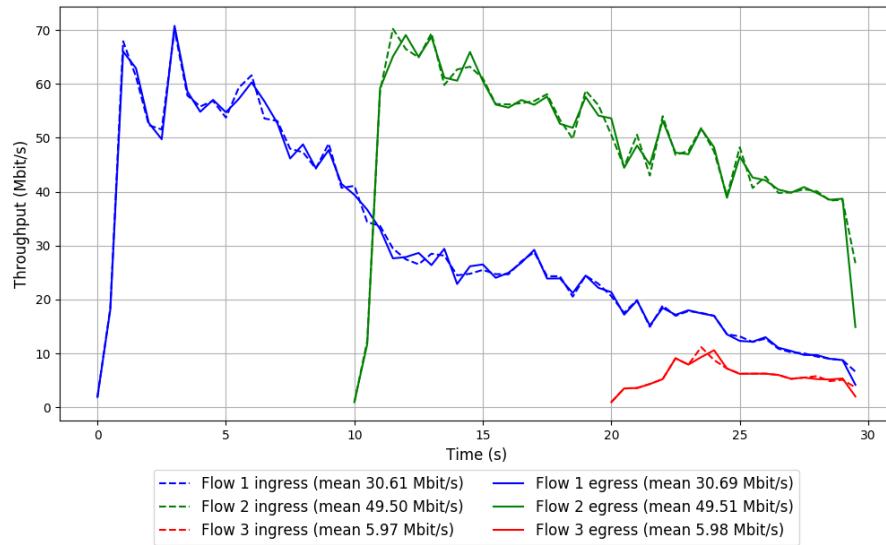
Figure is missing

Run 1: Statistics of Indigo-1-32

```
Start at: 2018-03-27 14:30:47
End at: 2018-03-27 14:31:17
Local clock offset: -1.307 ms
Remote clock offset: 50.541 ms

# Below is generated by plot.py at 2018-03-27 22:26:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 65.41 Mbit/s
95th percentile per-packet one-way delay: 27.324 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 30.69 Mbit/s
95th percentile per-packet one-way delay: 24.569 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 49.51 Mbit/s
95th percentile per-packet one-way delay: 29.393 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 5.98 Mbit/s
95th percentile per-packet one-way delay: 16.147 ms
Loss rate: 1.50%
```

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

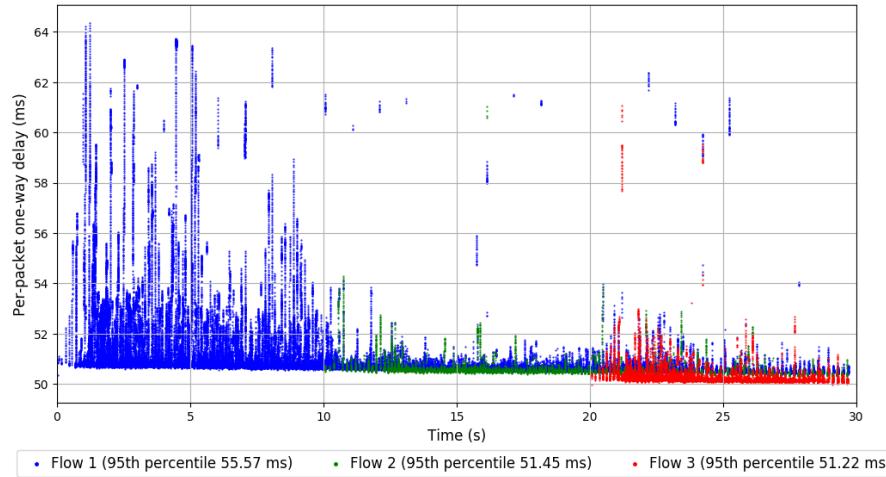
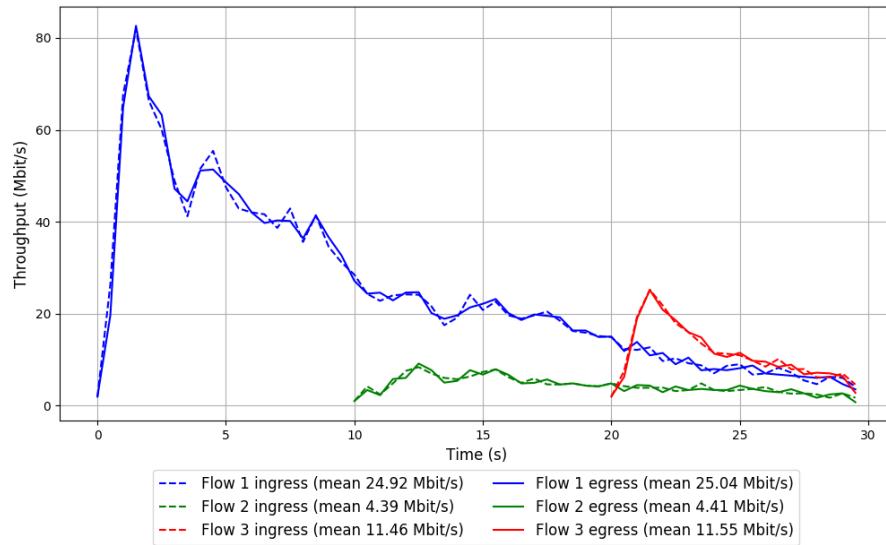


Run 2: Statistics of Indigo-1-32

```
Start at: 2018-03-27 14:54:20
End at: 2018-03-27 14:54:50
Local clock offset: -1.442 ms
Remote clock offset: -22.091 ms

# Below is generated by plot.py at 2018-03-27 22:26:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 31.69 Mbit/s
95th percentile per-packet one-way delay: 54.922 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 25.04 Mbit/s
95th percentile per-packet one-way delay: 55.567 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 4.41 Mbit/s
95th percentile per-packet one-way delay: 51.452 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 11.55 Mbit/s
95th percentile per-packet one-way delay: 51.220 ms
Loss rate: 1.07%
```

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

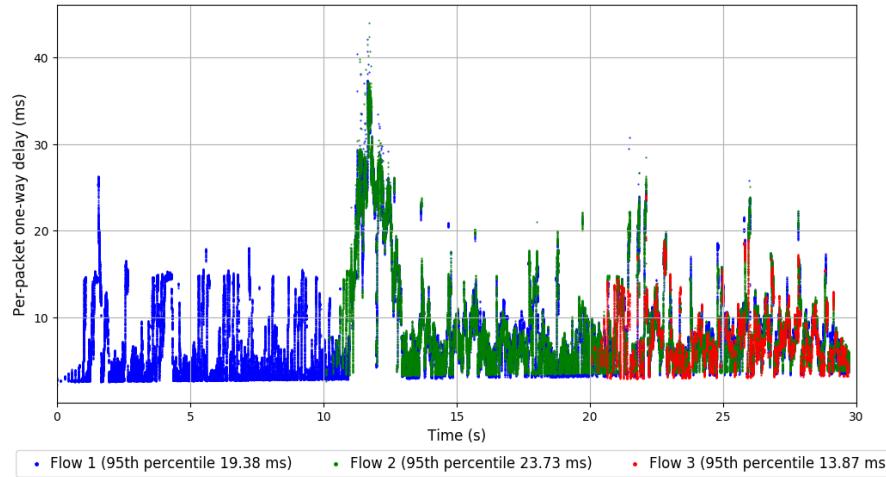
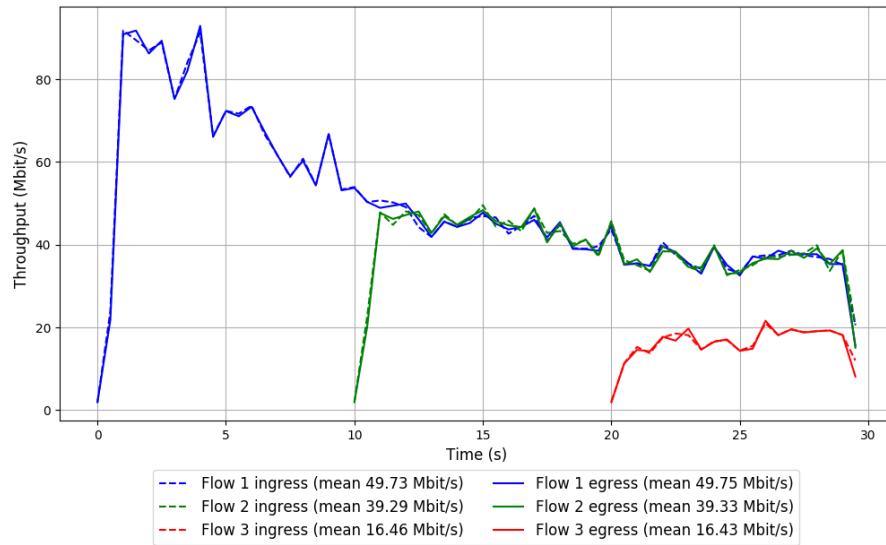


Run 3: Statistics of Indigo-1-32

```
Start at: 2018-03-27 15:19:47
End at: 2018-03-27 15:20:17
Local clock offset: -0.632 ms
Remote clock offset: 56.954 ms

# Below is generated by plot.py at 2018-03-27 22:26:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.03 Mbit/s
95th percentile per-packet one-way delay: 20.863 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 49.75 Mbit/s
95th percentile per-packet one-way delay: 19.382 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 39.33 Mbit/s
95th percentile per-packet one-way delay: 23.729 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 16.43 Mbit/s
95th percentile per-packet one-way delay: 13.872 ms
Loss rate: 1.38%
```

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

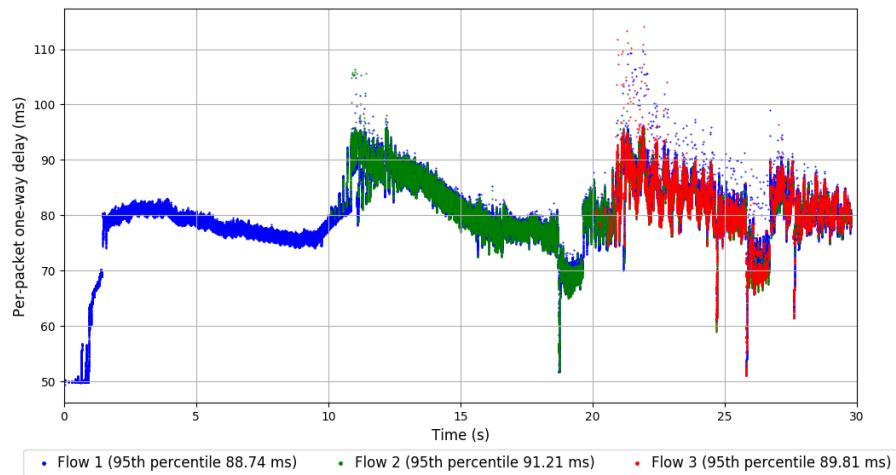
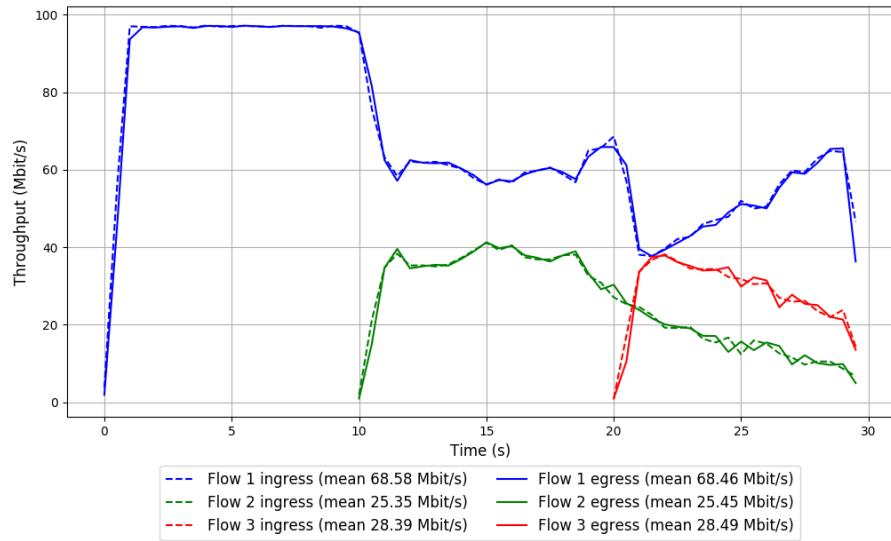


Run 4: Statistics of Indigo-1-32

```
Start at: 2018-03-27 15:44:17
End at: 2018-03-27 15:44:47
Local clock offset: 5.36 ms
Remote clock offset: 26.955 ms

# Below is generated by plot.py at 2018-03-27 22:26:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.52 Mbit/s
95th percentile per-packet one-way delay: 89.468 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 68.46 Mbit/s
95th percentile per-packet one-way delay: 88.739 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 25.45 Mbit/s
95th percentile per-packet one-way delay: 91.210 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 28.49 Mbit/s
95th percentile per-packet one-way delay: 89.805 ms
Loss rate: 1.19%
```

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

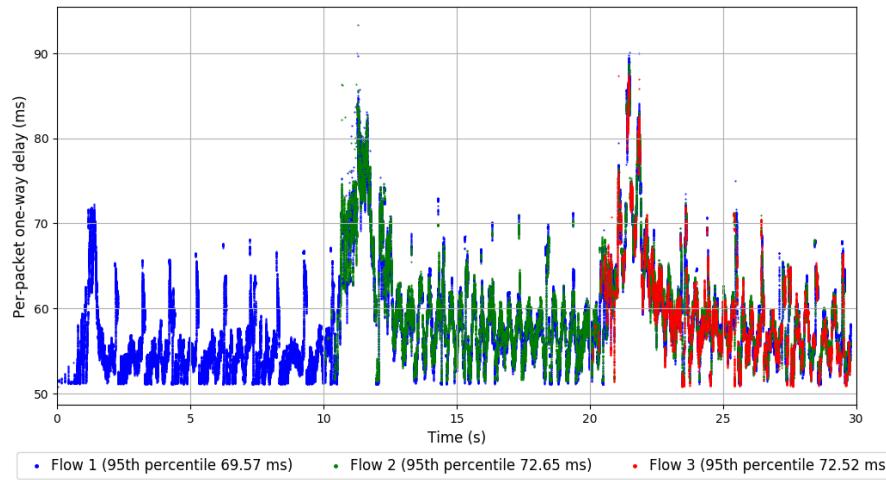
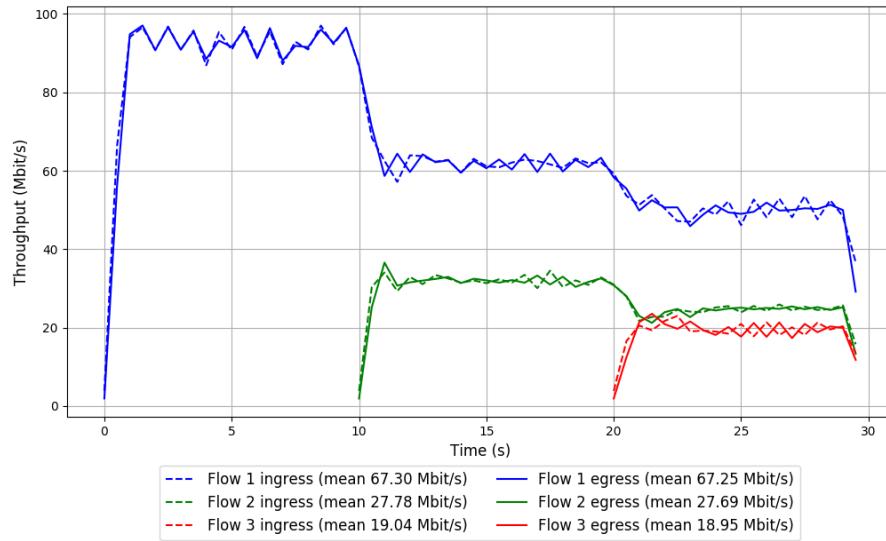


Run 5: Statistics of Indigo-1-32

```
Start at: 2018-03-27 16:08:03
End at: 2018-03-27 16:08:33
Local clock offset: 10.051 ms
Remote clock offset: 13.584 ms

# Below is generated by plot.py at 2018-03-27 22:26:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.77 Mbit/s
95th percentile per-packet one-way delay: 70.388 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 67.25 Mbit/s
95th percentile per-packet one-way delay: 69.566 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 27.69 Mbit/s
95th percentile per-packet one-way delay: 72.646 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 18.95 Mbit/s
95th percentile per-packet one-way delay: 72.521 ms
Loss rate: 1.53%
```

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

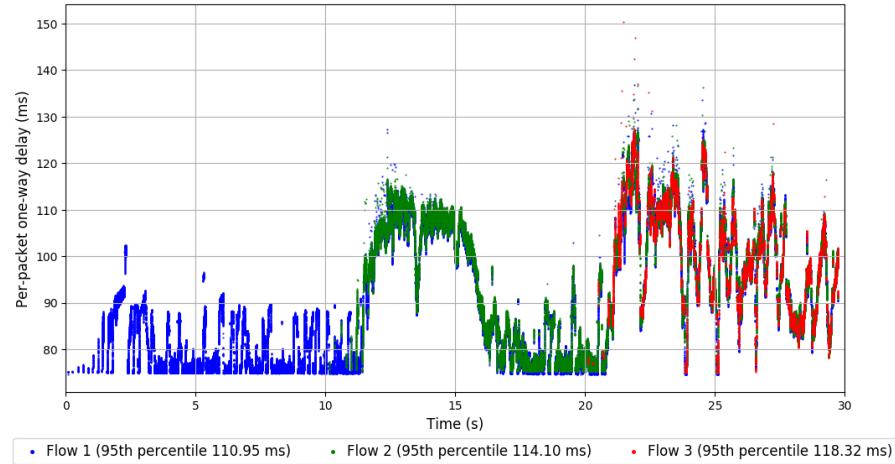
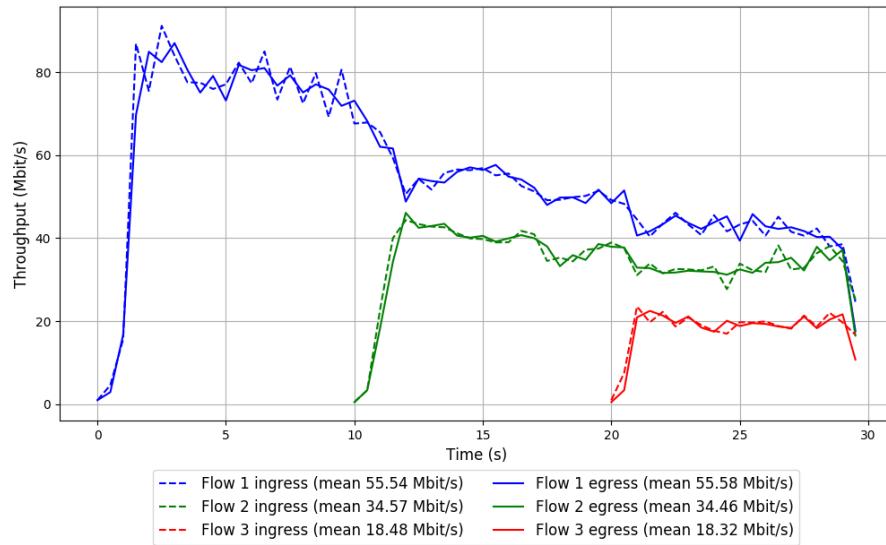


Run 6: Statistics of Indigo-1-32

```
Start at: 2018-03-27 16:33:57
End at: 2018-03-27 16:34:27
Local clock offset: 9.682 ms
Remote clock offset: -51.96 ms

# Below is generated by plot.py at 2018-03-27 22:26:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.28 Mbit/s
95th percentile per-packet one-way delay: 112.615 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 55.58 Mbit/s
95th percentile per-packet one-way delay: 110.953 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 34.46 Mbit/s
95th percentile per-packet one-way delay: 114.098 ms
Loss rate: 1.17%
-- Flow 3:
Average throughput: 18.32 Mbit/s
95th percentile per-packet one-way delay: 118.322 ms
Loss rate: 2.72%
```

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

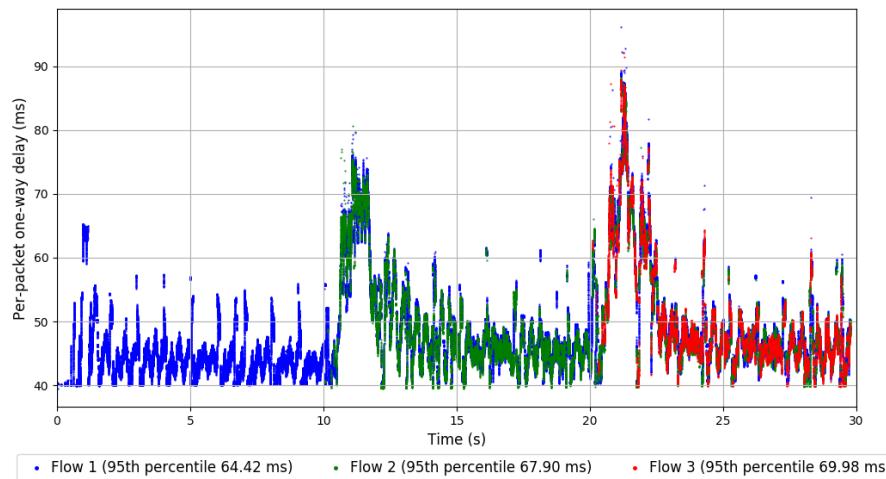
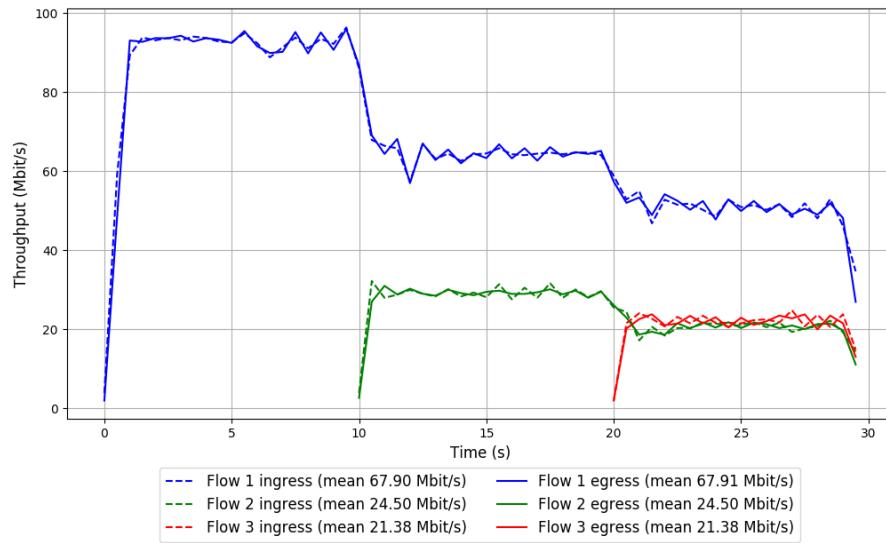


Run 7: Statistics of Indigo-1-32

```
Start at: 2018-03-27 16:57:50
End at: 2018-03-27 16:58:20
Local clock offset: 0.041 ms
Remote clock offset: -20.101 ms

# Below is generated by plot.py at 2018-03-27 22:27:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.09 Mbit/s
95th percentile per-packet one-way delay: 65.675 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 67.91 Mbit/s
95th percentile per-packet one-way delay: 64.417 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 24.50 Mbit/s
95th percentile per-packet one-way delay: 67.900 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 21.38 Mbit/s
95th percentile per-packet one-way delay: 69.978 ms
Loss rate: 1.26%
```

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

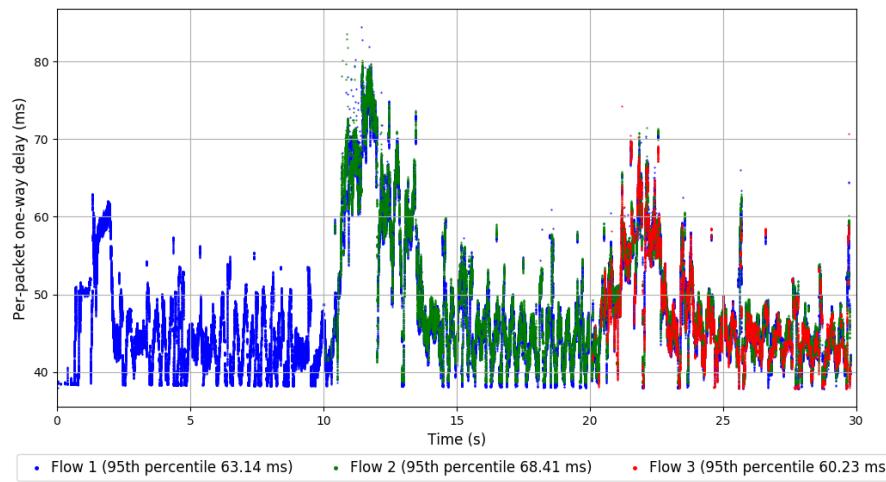
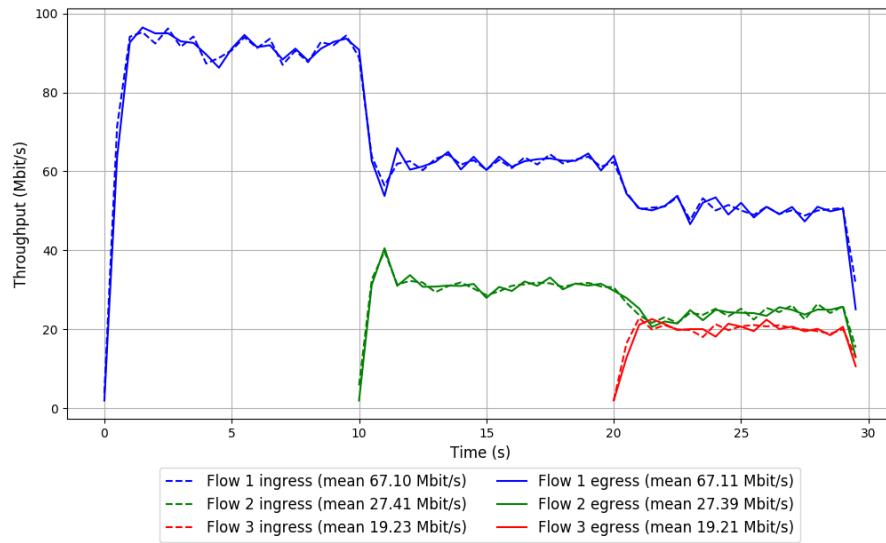


Run 8: Statistics of Indigo-1-32

```
Start at: 2018-03-27 17:21:43
End at: 2018-03-27 17:22:13
Local clock offset: -0.275 ms
Remote clock offset: -19.14 ms

# Below is generated by plot.py at 2018-03-27 22:27:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.51 Mbit/s
95th percentile per-packet one-way delay: 64.663 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 67.11 Mbit/s
95th percentile per-packet one-way delay: 63.142 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 27.39 Mbit/s
95th percentile per-packet one-way delay: 68.413 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 19.21 Mbit/s
95th percentile per-packet one-way delay: 60.229 ms
Loss rate: 1.12%
```

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

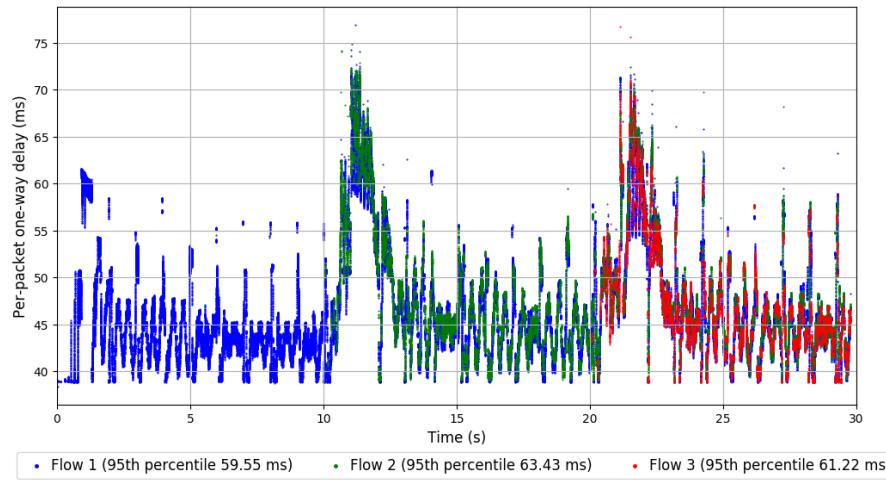
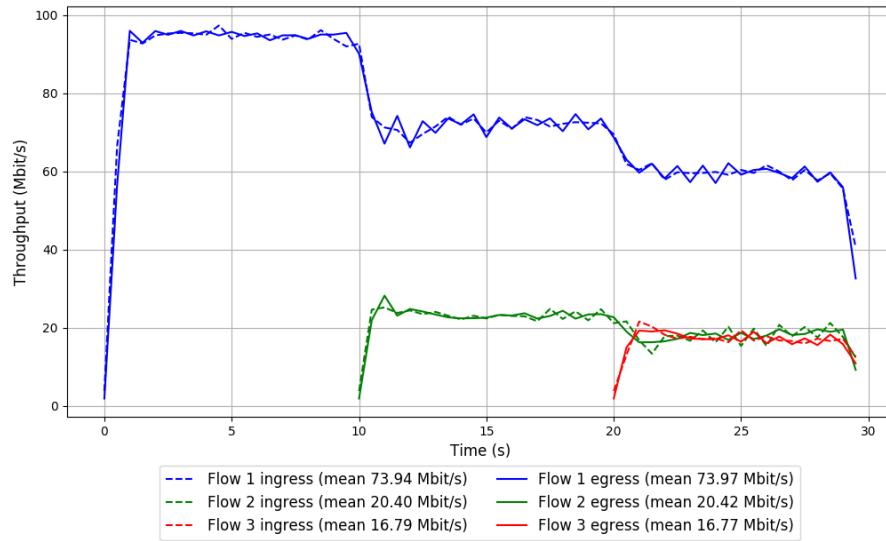


Run 9: Statistics of Indigo-1-32

```
Start at: 2018-03-27 17:45:23
End at: 2018-03-27 17:45:53
Local clock offset: 8.385 ms
Remote clock offset: -11.035 ms

# Below is generated by plot.py at 2018-03-27 22:27:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.98 Mbit/s
95th percentile per-packet one-way delay: 60.011 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 73.97 Mbit/s
95th percentile per-packet one-way delay: 59.546 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 20.42 Mbit/s
95th percentile per-packet one-way delay: 63.428 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 16.77 Mbit/s
95th percentile per-packet one-way delay: 61.224 ms
Loss rate: 1.22%
```

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

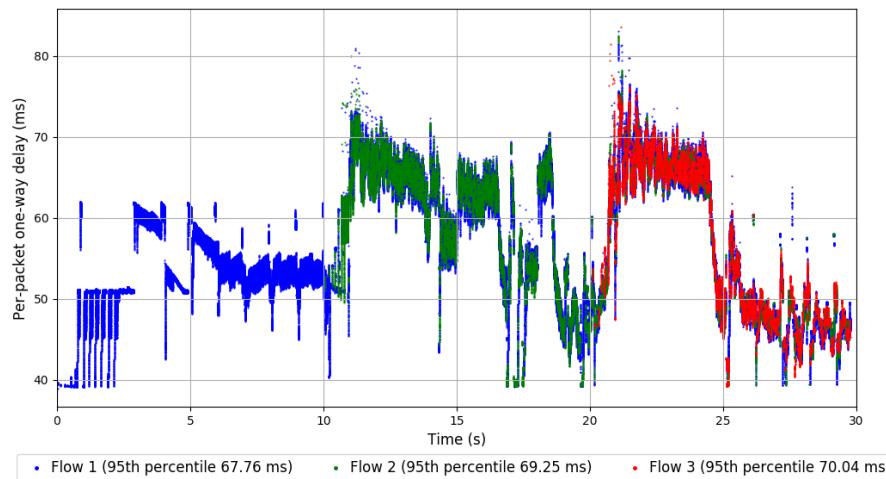
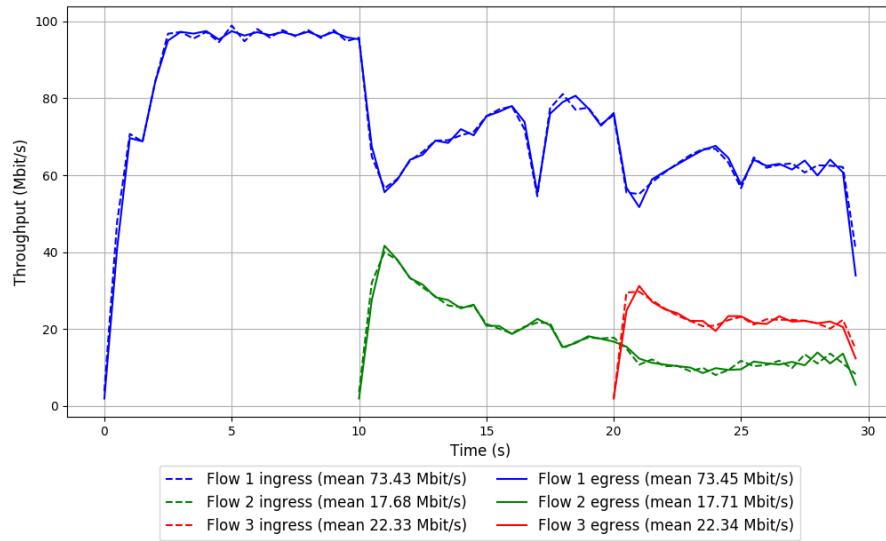


Run 10: Statistics of Indigo-1-32

```
Start at: 2018-03-27 18:08:11
End at: 2018-03-27 18:08:41
Local clock offset: 3.398 ms
Remote clock offset: -9.609 ms

# Below is generated by plot.py at 2018-03-27 22:27:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.41 Mbit/s
95th percentile per-packet one-way delay: 68.295 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 73.45 Mbit/s
95th percentile per-packet one-way delay: 67.761 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 17.71 Mbit/s
95th percentile per-packet one-way delay: 69.245 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 22.34 Mbit/s
95th percentile per-packet one-way delay: 70.039 ms
Loss rate: 1.13%
```

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

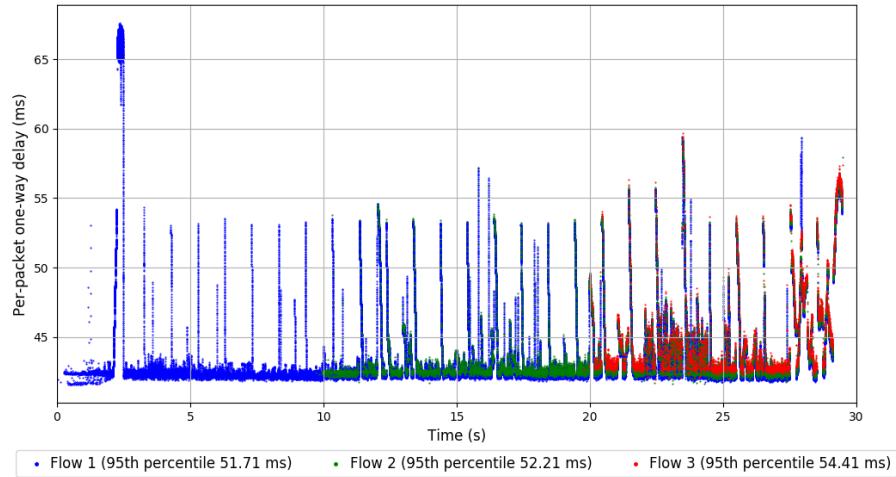
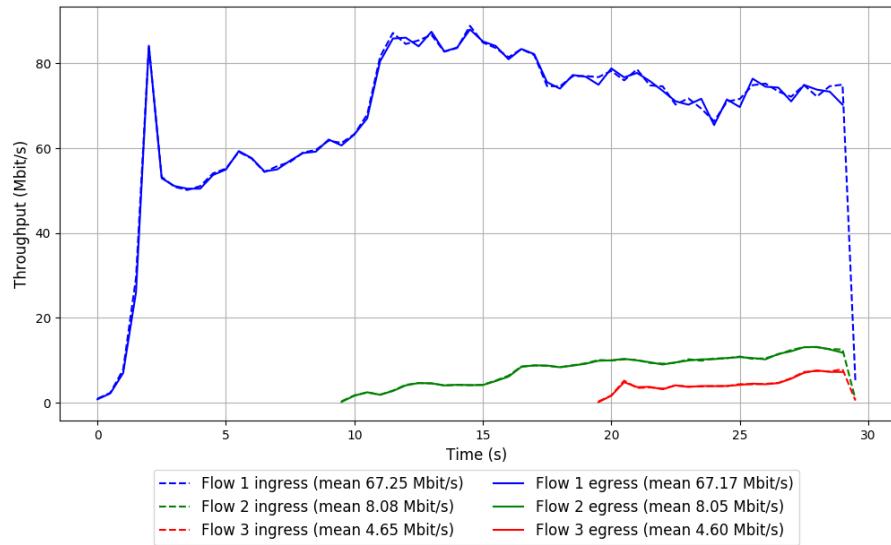


Run 1: Statistics of Vivace-latency

```
Start at: 2018-03-27 14:18:45
End at: 2018-03-27 14:19:15
Local clock offset: -1.441 ms
Remote clock offset: 20.061 ms

# Below is generated by plot.py at 2018-03-27 22:27:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 74.08 Mbit/s
95th percentile per-packet one-way delay: 51.840 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 67.17 Mbit/s
95th percentile per-packet one-way delay: 51.709 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 8.05 Mbit/s
95th percentile per-packet one-way delay: 52.211 ms
Loss rate: 0.96%
-- Flow 3:
Average throughput: 4.60 Mbit/s
95th percentile per-packet one-way delay: 54.414 ms
Loss rate: 2.13%
```

Run 1: Report of Vivace-latency — Data Link

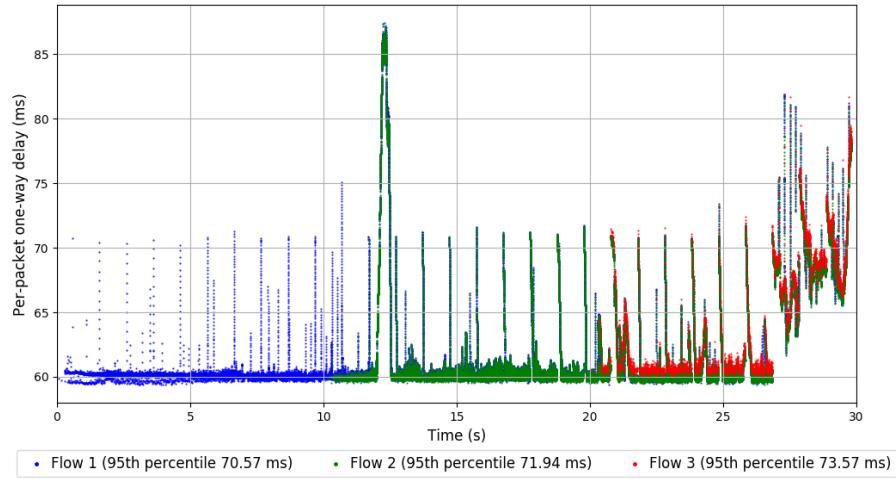
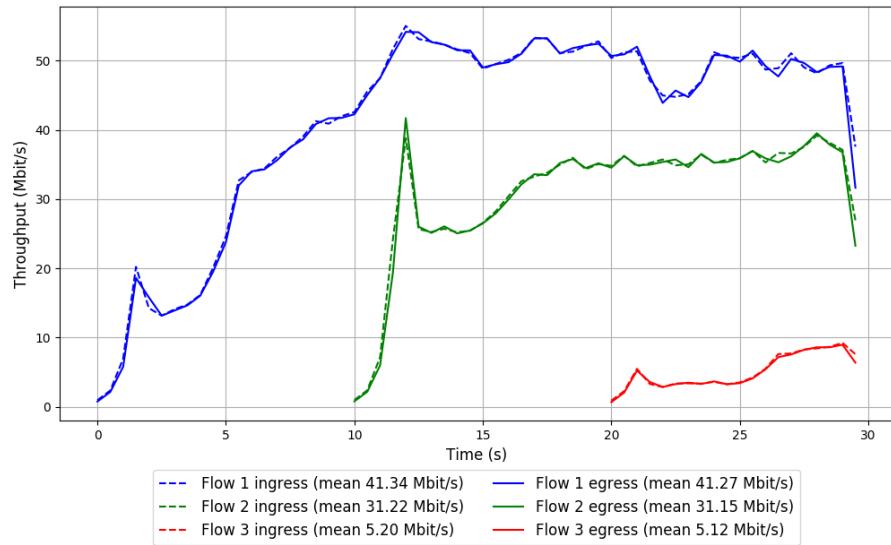


Run 2: Statistics of Vivace-latency

```
Start at: 2018-03-27 14:42:45
End at: 2018-03-27 14:43:15
Local clock offset: -0.785 ms
Remote clock offset: -21.287 ms

# Below is generated by plot.py at 2018-03-27 22:27:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 63.62 Mbit/s
95th percentile per-packet one-way delay: 71.240 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 41.27 Mbit/s
95th percentile per-packet one-way delay: 70.574 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 31.15 Mbit/s
95th percentile per-packet one-way delay: 71.945 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 5.12 Mbit/s
95th percentile per-packet one-way delay: 73.573 ms
Loss rate: 2.64%
```

Run 2: Report of Vivace-latency — Data Link

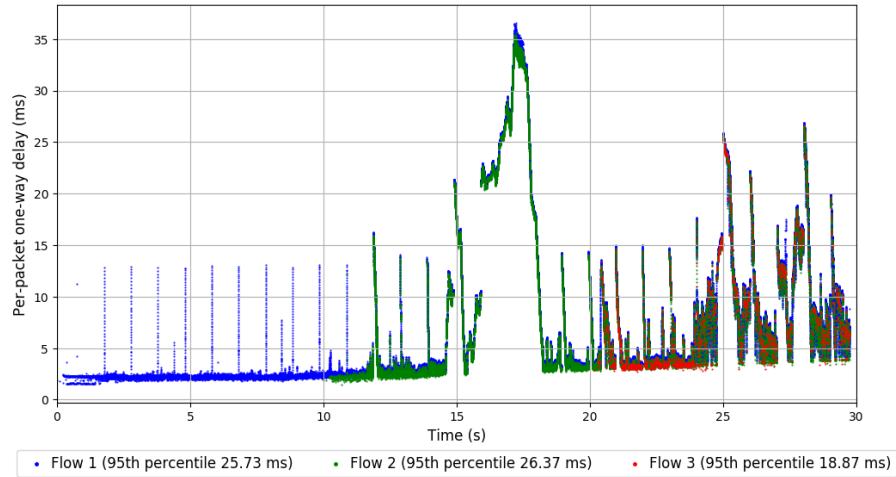
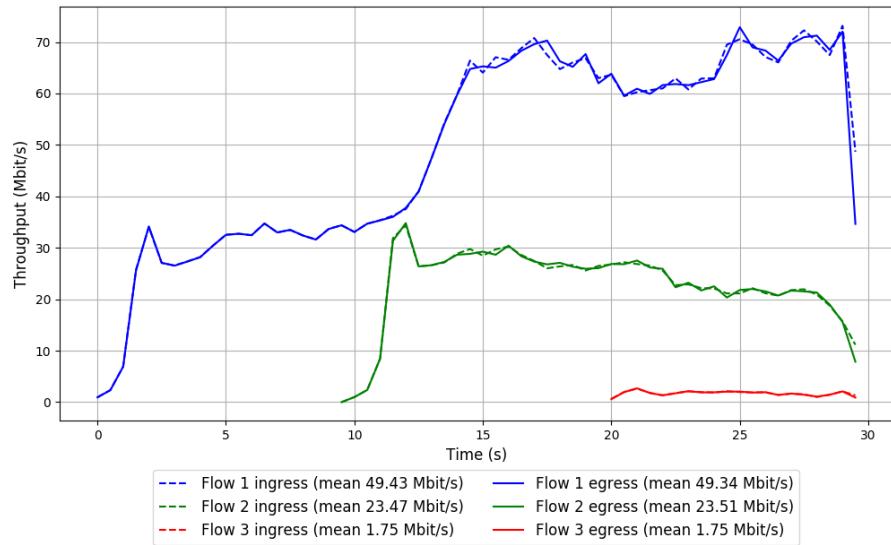


Run 3: Statistics of Vivace-latency

```
Start at: 2018-03-27 15:07:55
End at: 2018-03-27 15:08:25
Local clock offset: -0.788 ms
Remote clock offset: 18.441 ms

# Below is generated by plot.py at 2018-03-27 22:27:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 65.52 Mbit/s
95th percentile per-packet one-way delay: 25.778 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 49.34 Mbit/s
95th percentile per-packet one-way delay: 25.725 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 23.51 Mbit/s
95th percentile per-packet one-way delay: 26.372 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 1.75 Mbit/s
95th percentile per-packet one-way delay: 18.869 ms
Loss rate: 1.24%
```

Run 3: Report of Vivace-latency — Data Link

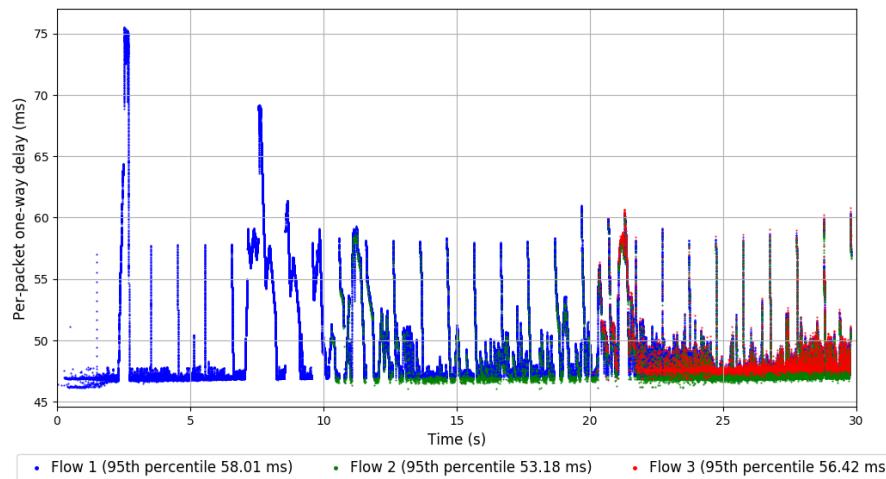
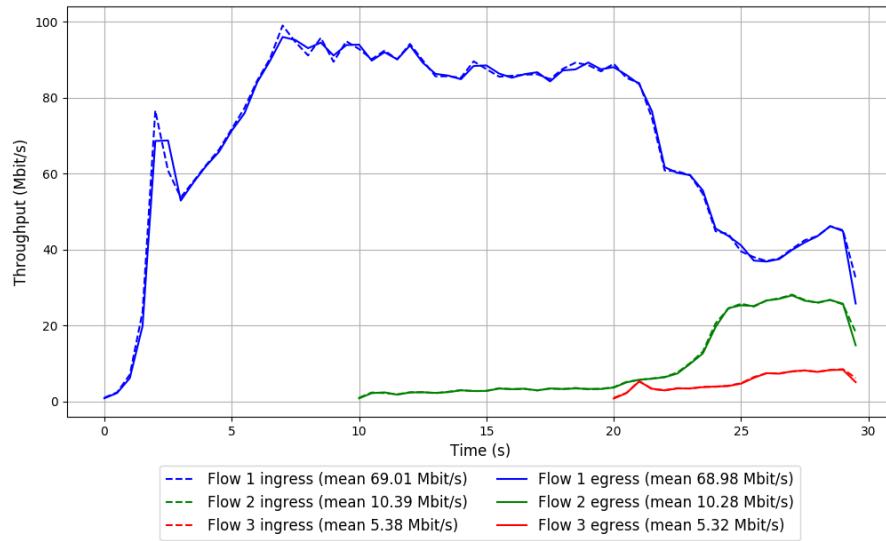


Run 4: Statistics of Vivace-latency

```
Start at: 2018-03-27 15:32:21
End at: 2018-03-27 15:32:51
Local clock offset: -0.637 ms
Remote clock offset: 27.775 ms

# Below is generated by plot.py at 2018-03-27 22:28:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.54 Mbit/s
95th percentile per-packet one-way delay: 57.830 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 68.98 Mbit/s
95th percentile per-packet one-way delay: 58.008 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 10.28 Mbit/s
95th percentile per-packet one-way delay: 53.181 ms
Loss rate: 1.57%
-- Flow 3:
Average throughput: 5.32 Mbit/s
95th percentile per-packet one-way delay: 56.420 ms
Loss rate: 2.05%
```

Run 4: Report of Vivace-latency — Data Link

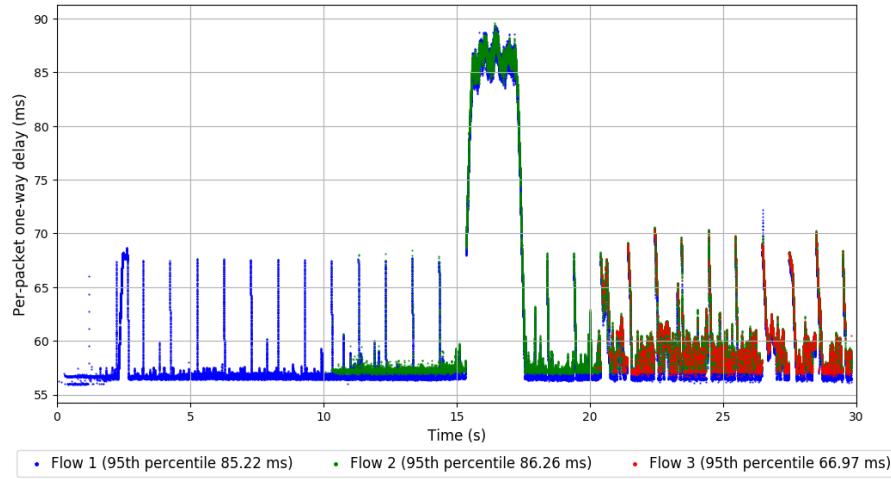
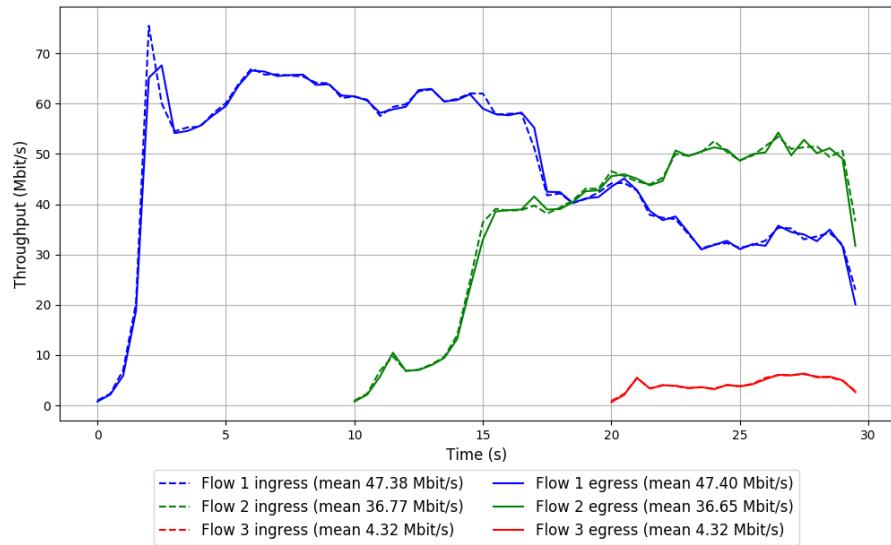


Run 5: Statistics of Vivace-latency

```
Start at: 2018-03-27 15:56:12
End at: 2018-03-27 15:56:42
Local clock offset: 8.313 ms
Remote clock offset: 8.993 ms

# Below is generated by plot.py at 2018-03-27 22:28:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 73.12 Mbit/s
95th percentile per-packet one-way delay: 85.596 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 47.40 Mbit/s
95th percentile per-packet one-way delay: 85.223 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 36.65 Mbit/s
95th percentile per-packet one-way delay: 86.256 ms
Loss rate: 0.89%
-- Flow 3:
Average throughput: 4.32 Mbit/s
95th percentile per-packet one-way delay: 66.972 ms
Loss rate: 1.04%
```

### Run 5: Report of Vivace-latency — Data Link

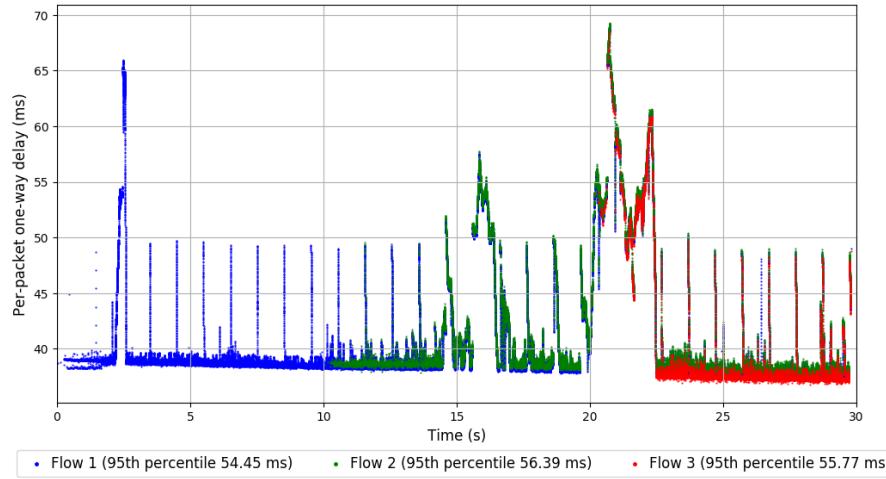
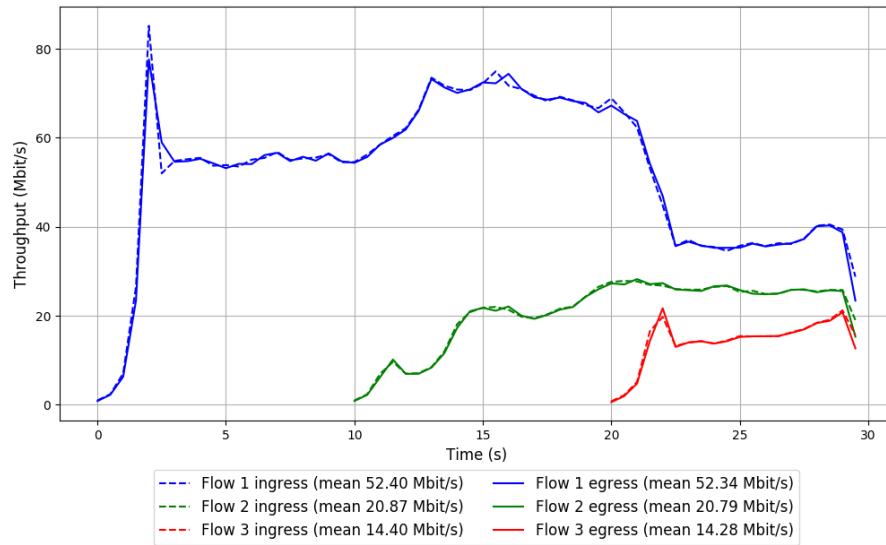


Run 6: Statistics of Vivace-latency

```
Start at: 2018-03-27 16:21:05
End at: 2018-03-27 16:21:35
Local clock offset: 9.51 ms
Remote clock offset: 8.684 ms

# Below is generated by plot.py at 2018-03-27 22:28:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 70.79 Mbit/s
95th percentile per-packet one-way delay: 54.843 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 52.34 Mbit/s
95th percentile per-packet one-way delay: 54.453 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 20.79 Mbit/s
95th percentile per-packet one-way delay: 56.394 ms
Loss rate: 0.89%
-- Flow 3:
Average throughput: 14.28 Mbit/s
95th percentile per-packet one-way delay: 55.770 ms
Loss rate: 1.94%
```

Run 6: Report of Vivace-latency — Data Link

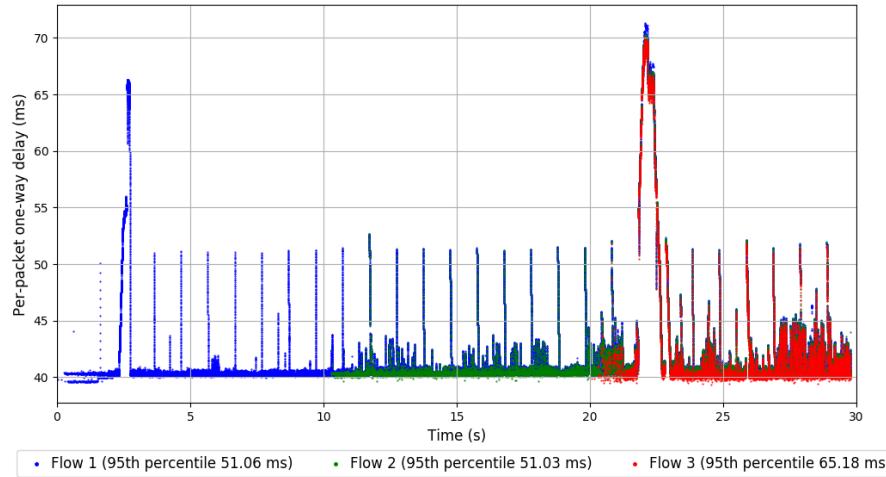
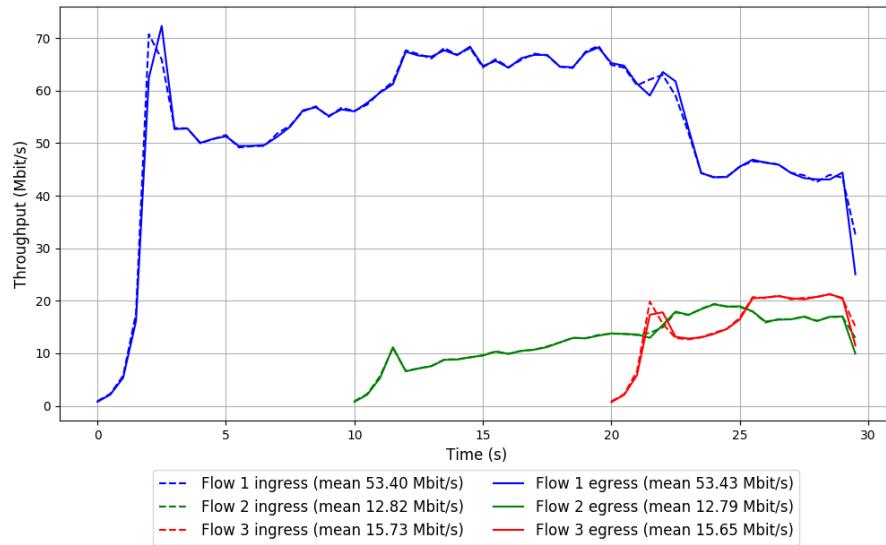


Run 7: Statistics of Vivace-latency

```
Start at: 2018-03-27 16:46:34
End at: 2018-03-27 16:47:04
Local clock offset: 7.057 ms
Remote clock offset: -27.403 ms

# Below is generated by plot.py at 2018-03-27 22:28:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 67.02 Mbit/s
95th percentile per-packet one-way delay: 51.736 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 53.43 Mbit/s
95th percentile per-packet one-way delay: 51.064 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 12.79 Mbit/s
95th percentile per-packet one-way delay: 51.030 ms
Loss rate: 0.87%
-- Flow 3:
Average throughput: 15.65 Mbit/s
95th percentile per-packet one-way delay: 65.183 ms
Loss rate: 1.69%
```

Run 7: Report of Vivace-latency — Data Link

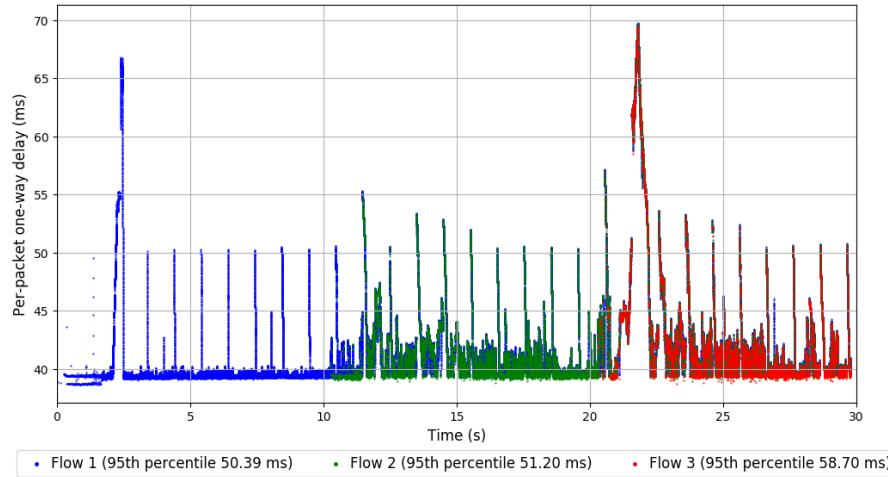
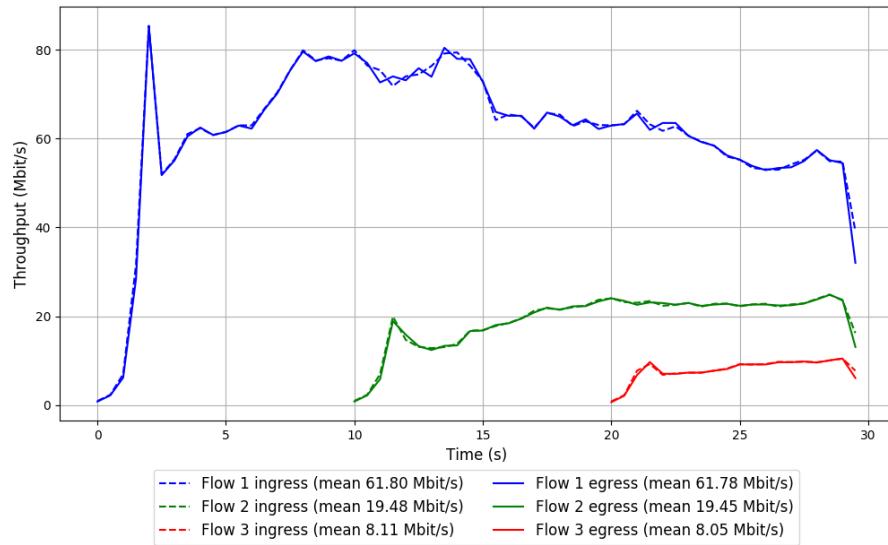


Run 8: Statistics of Vivace-latency

```
Start at: 2018-03-27 17:09:48
End at: 2018-03-27 17:10:18
Local clock offset: -3.489 ms
Remote clock offset: -17.116 ms

# Below is generated by plot.py at 2018-03-27 22:28:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.33 Mbit/s
95th percentile per-packet one-way delay: 50.717 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 61.78 Mbit/s
95th percentile per-packet one-way delay: 50.389 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 19.45 Mbit/s
95th percentile per-packet one-way delay: 51.199 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 8.05 Mbit/s
95th percentile per-packet one-way delay: 58.699 ms
Loss rate: 1.66%
```

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

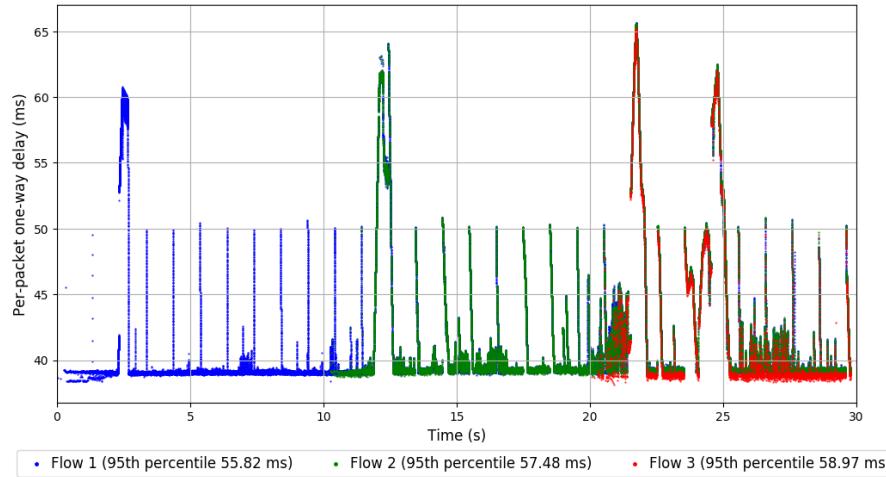
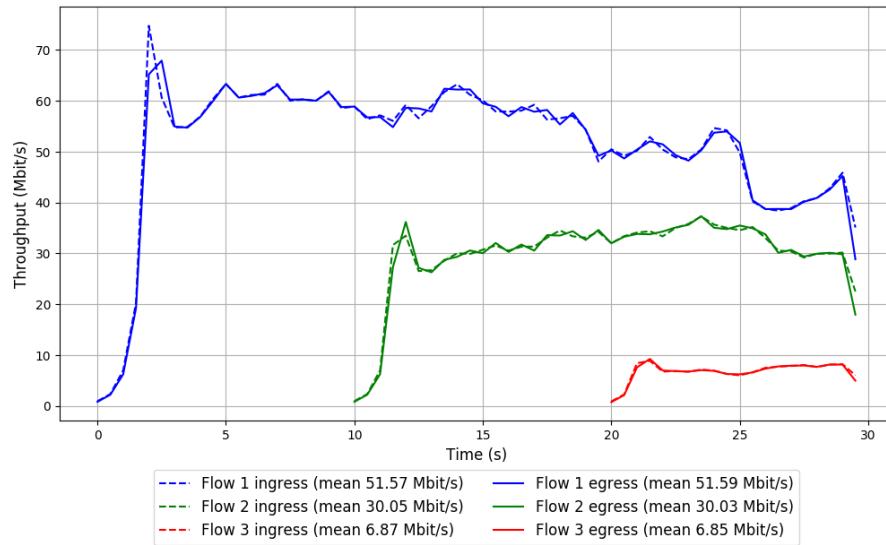


Run 9: Statistics of Vivace-latency

```
Start at: 2018-03-27 17:33:51
End at: 2018-03-27 17:34:21
Local clock offset: 6.337 ms
Remote clock offset: -13.201 ms

# Below is generated by plot.py at 2018-03-27 22:28:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 73.76 Mbit/s
95th percentile per-packet one-way delay: 56.450 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 51.59 Mbit/s
95th percentile per-packet one-way delay: 55.821 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 30.03 Mbit/s
95th percentile per-packet one-way delay: 57.478 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 6.85 Mbit/s
95th percentile per-packet one-way delay: 58.970 ms
Loss rate: 1.30%
```

Run 9: Report of Vivace-latency — Data Link

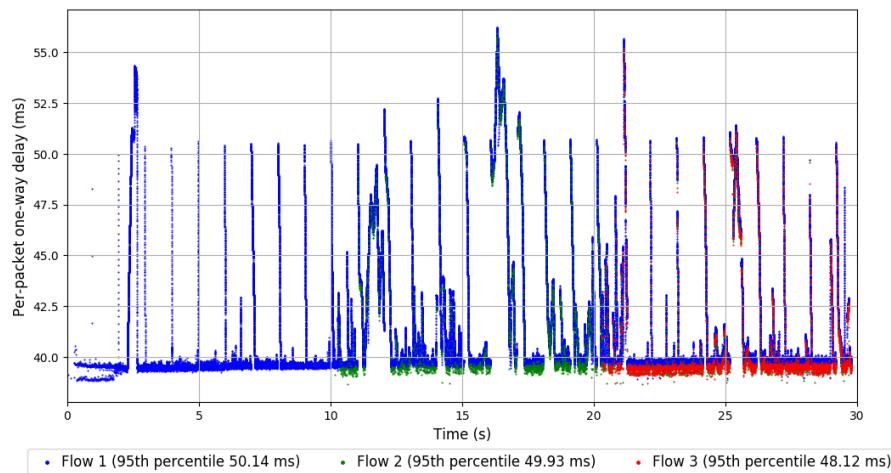
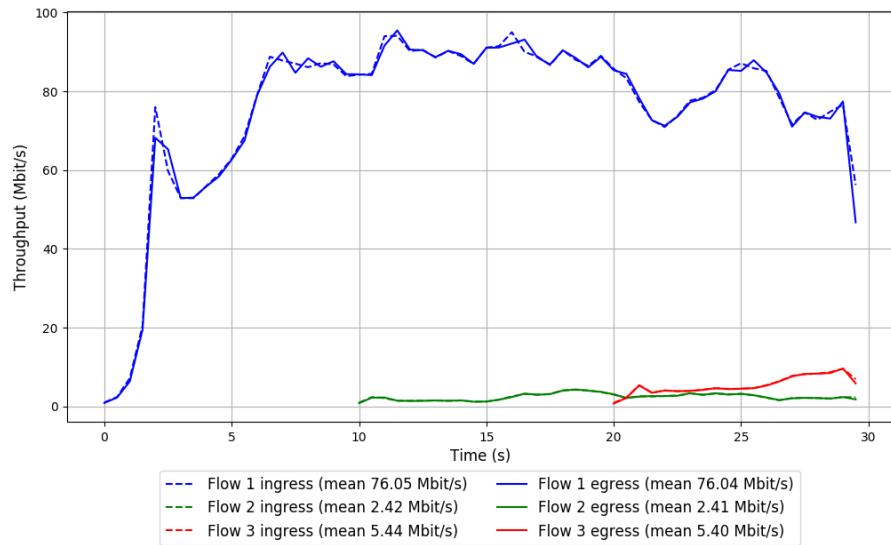


Run 10: Statistics of Vivace-latency

```
Start at: 2018-03-27 17:56:53
End at: 2018-03-27 17:57:23
Local clock offset: 6.024 ms
Remote clock offset: -11.021 ms

# Below is generated by plot.py at 2018-03-27 22:28:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.41 Mbit/s
95th percentile per-packet one-way delay: 50.102 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 76.04 Mbit/s
95th percentile per-packet one-way delay: 50.143 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 2.41 Mbit/s
95th percentile per-packet one-way delay: 49.931 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 5.40 Mbit/s
95th percentile per-packet one-way delay: 48.123 ms
Loss rate: 1.73%
```

### Run 10: Report of Vivace-latency — Data Link

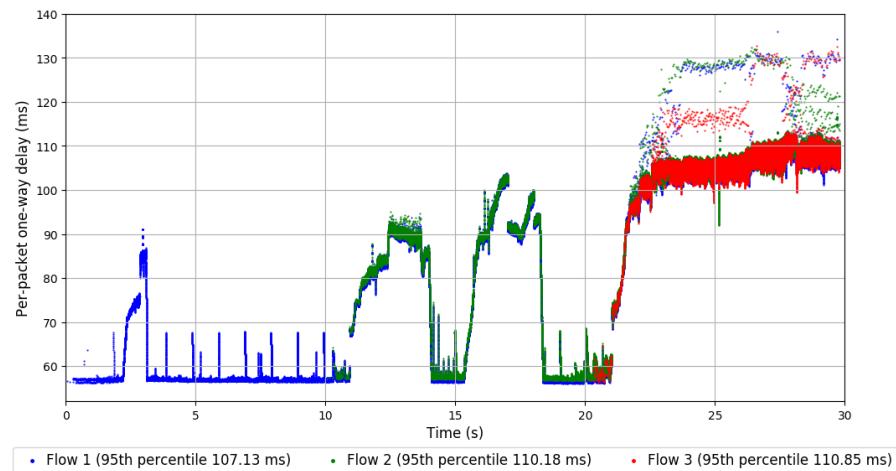
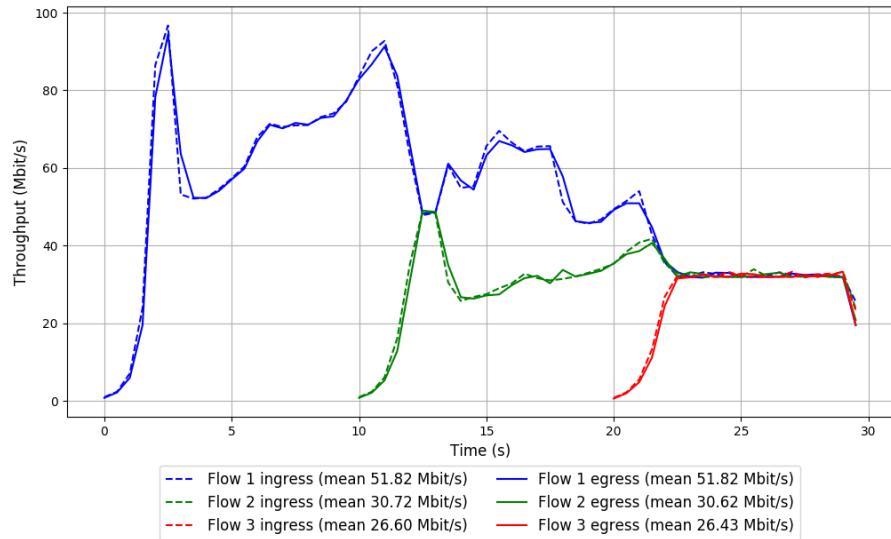


```
Run 1: Statistics of Vivace-loss
```

```
Start at: 2018-03-27 14:36:17
End at: 2018-03-27 14:36:47
Local clock offset: -0.864 ms
Remote clock offset: -7.948 ms

# Below is generated by plot.py at 2018-03-27 22:28:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.76 Mbit/s
95th percentile per-packet one-way delay: 109.218 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 51.82 Mbit/s
95th percentile per-packet one-way delay: 107.130 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 30.62 Mbit/s
95th percentile per-packet one-way delay: 110.179 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 26.43 Mbit/s
95th percentile per-packet one-way delay: 110.848 ms
Loss rate: 2.05%
```

Run 1: Report of Vivace-loss — Data Link

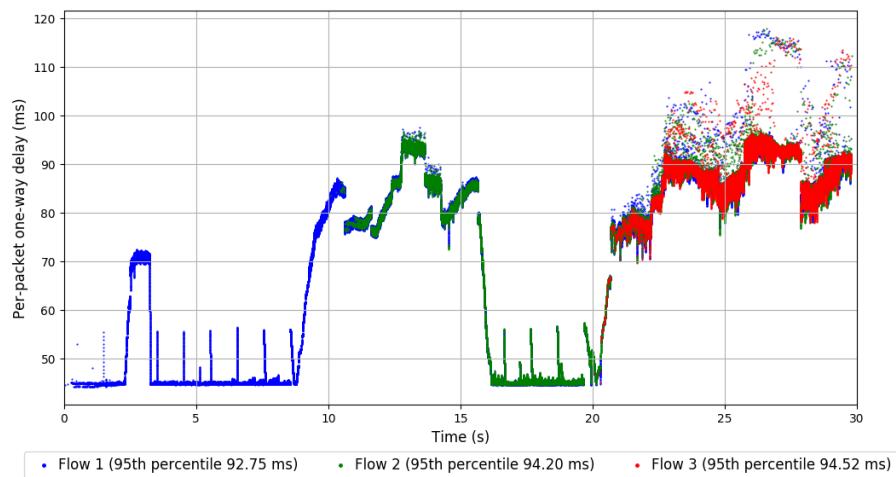
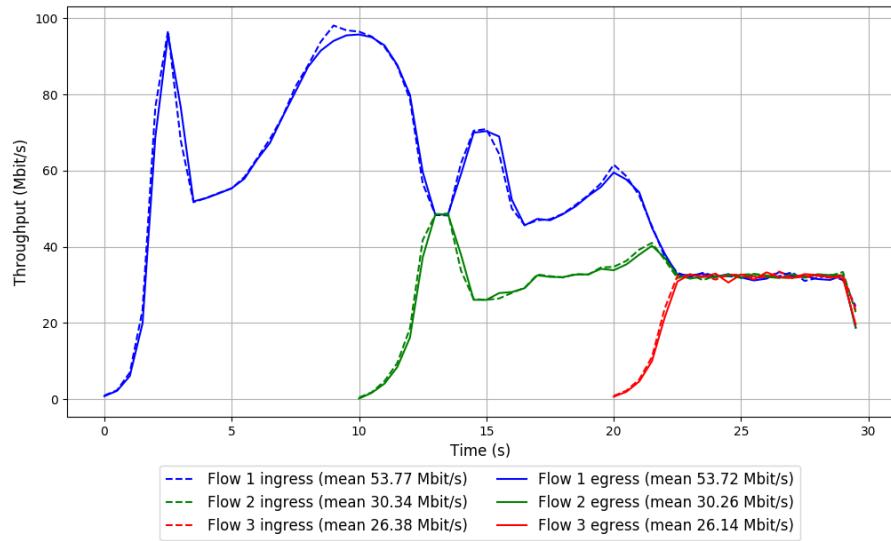


Run 2: Statistics of Vivace-loss

```
Start at: 2018-03-27 15:00:46
End at: 2018-03-27 15:01:16
Local clock offset: -1.533 ms
Remote clock offset: -20.703 ms

# Below is generated by plot.py at 2018-03-27 22:29:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.26 Mbit/s
95th percentile per-packet one-way delay: 93.569 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 53.72 Mbit/s
95th percentile per-packet one-way delay: 92.748 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 30.26 Mbit/s
95th percentile per-packet one-way delay: 94.204 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 26.14 Mbit/s
95th percentile per-packet one-way delay: 94.524 ms
Loss rate: 2.12%
```

Run 2: Report of Vivace-loss — Data Link

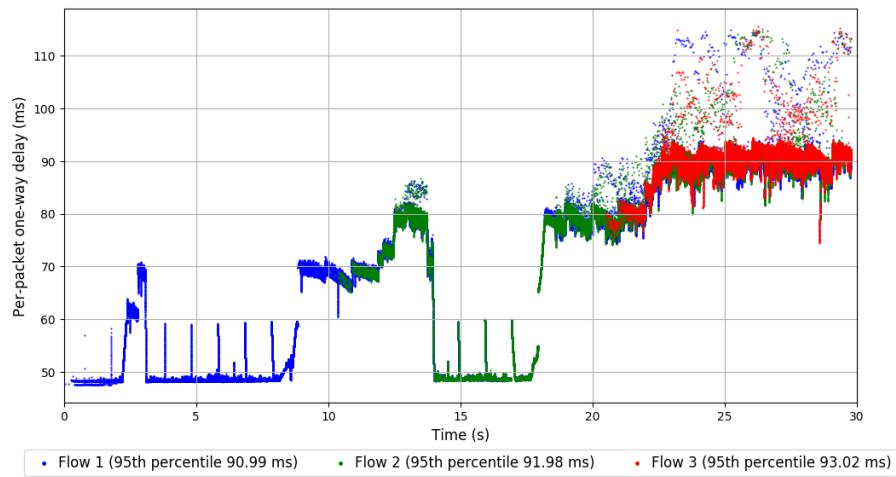
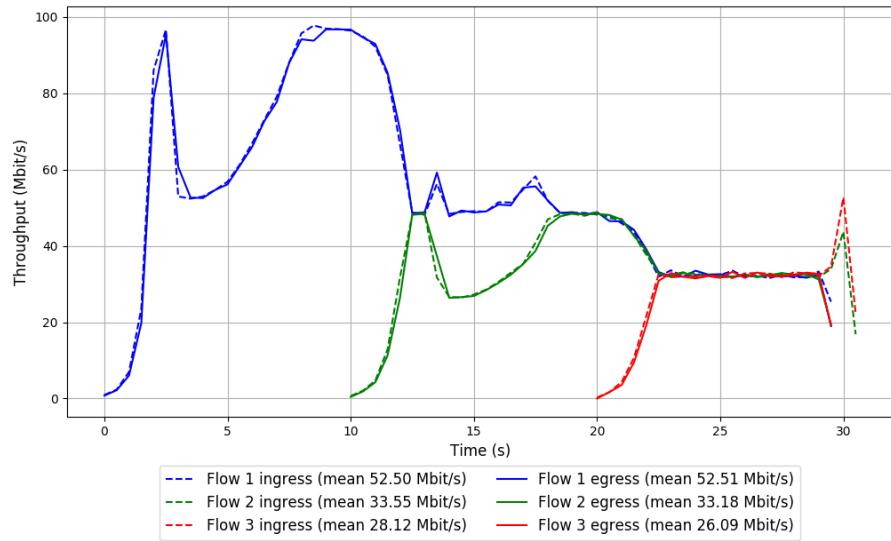


Run 3: Statistics of Vivace-loss

```
Start at: 2018-03-27 15:25:23
End at: 2018-03-27 15:25:53
Local clock offset: -0.5 ms
Remote clock offset: 19.651 ms

# Below is generated by plot.py at 2018-03-27 22:29:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.93 Mbit/s
95th percentile per-packet one-way delay: 91.886 ms
Loss rate: 3.85%
-- Flow 1:
Average throughput: 52.51 Mbit/s
95th percentile per-packet one-way delay: 90.986 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 33.18 Mbit/s
95th percentile per-packet one-way delay: 91.984 ms
Loss rate: 5.98%
-- Flow 3:
Average throughput: 26.09 Mbit/s
95th percentile per-packet one-way delay: 93.018 ms
Loss rate: 16.16%
```

Run 3: Report of Vivace-loss — Data Link

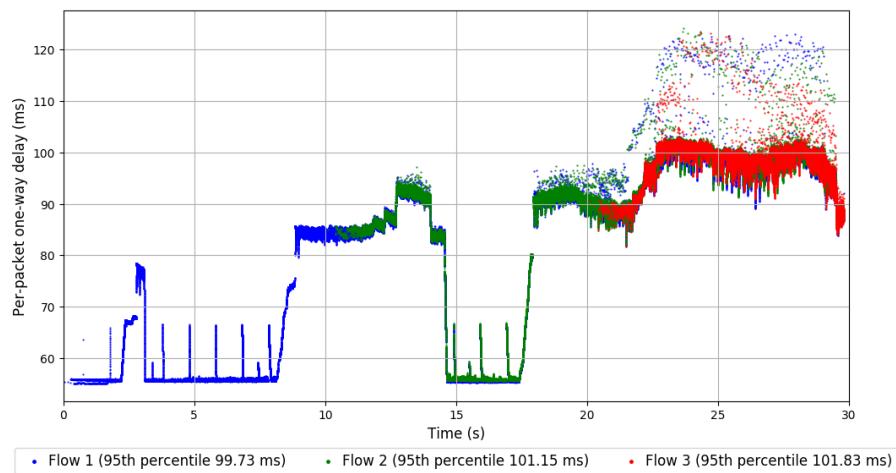
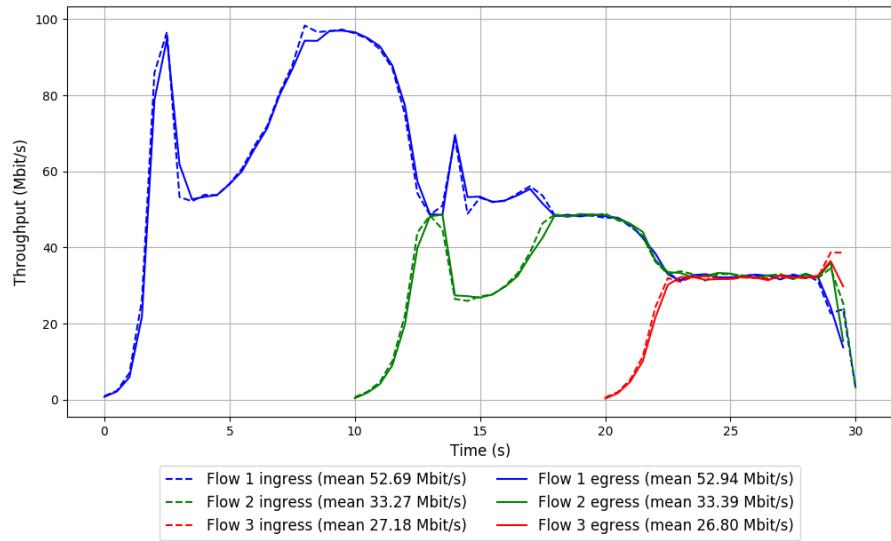


Run 4: Statistics of Vivace-loss

```
Start at: 2018-03-27 15:49:29
End at: 2018-03-27 15:49:59
Local clock offset: 6.816 ms
Remote clock offset: 13.987 ms

# Below is generated by plot.py at 2018-03-27 22:29:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.79 Mbit/s
95th percentile per-packet one-way delay: 100.808 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 52.94 Mbit/s
95th percentile per-packet one-way delay: 99.734 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 33.39 Mbit/s
95th percentile per-packet one-way delay: 101.151 ms
Loss rate: 1.33%
-- Flow 3:
Average throughput: 26.80 Mbit/s
95th percentile per-packet one-way delay: 101.830 ms
Loss rate: 3.20%
```

Run 4: Report of Vivace-loss — Data Link

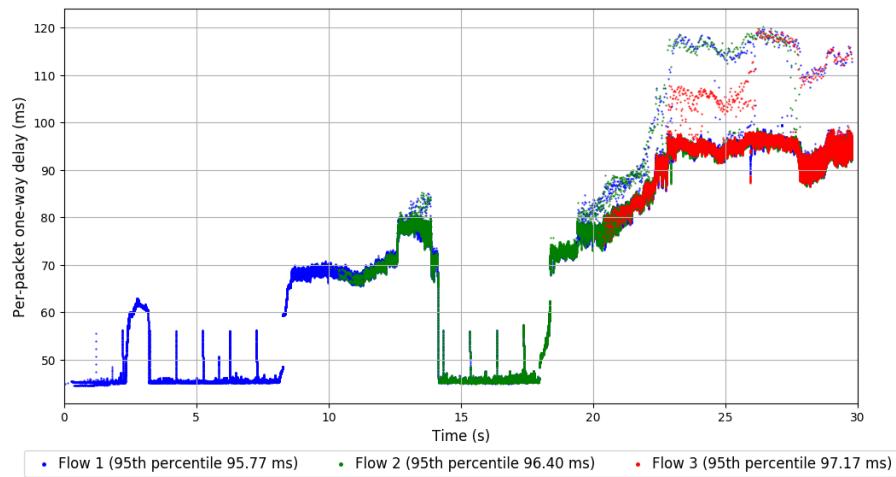
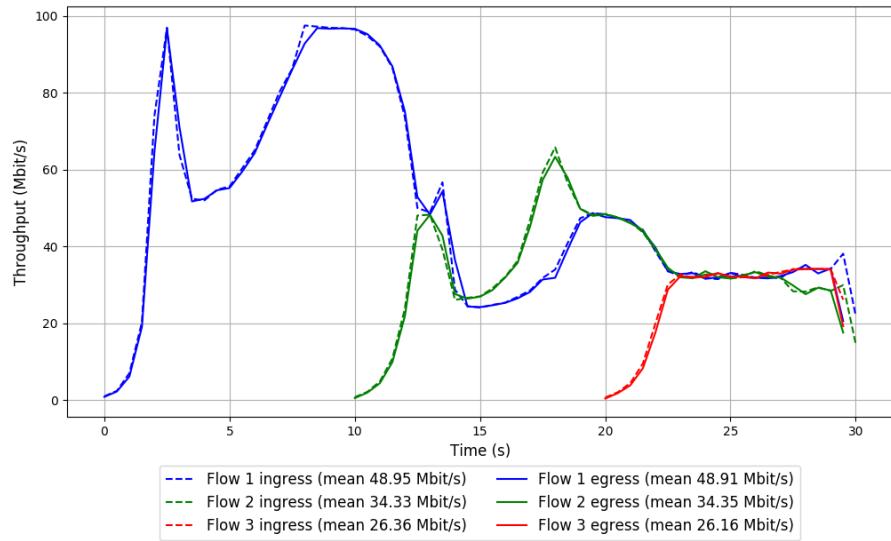


Run 5: Statistics of Vivace-loss

```
Start at: 2018-03-27 16:13:57
End at: 2018-03-27 16:14:27
Local clock offset: 9.549 ms
Remote clock offset: 19.906 ms

# Below is generated by plot.py at 2018-03-27 22:29:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.18 Mbit/s
95th percentile per-packet one-way delay: 96.331 ms
Loss rate: 2.04%
-- Flow 1:
Average throughput: 48.91 Mbit/s
95th percentile per-packet one-way delay: 95.771 ms
Loss rate: 1.72%
-- Flow 2:
Average throughput: 34.35 Mbit/s
95th percentile per-packet one-way delay: 96.402 ms
Loss rate: 2.51%
-- Flow 3:
Average throughput: 26.16 Mbit/s
95th percentile per-packet one-way delay: 97.171 ms
Loss rate: 2.66%
```

Run 5: Report of Vivace-loss — Data Link

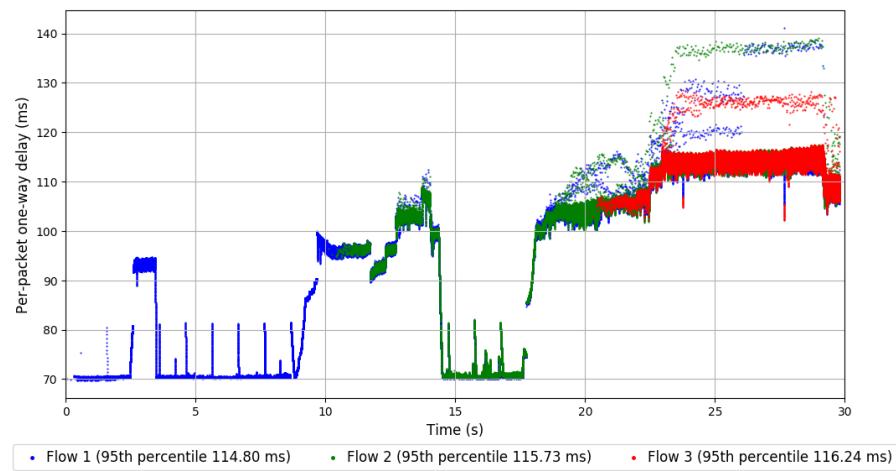
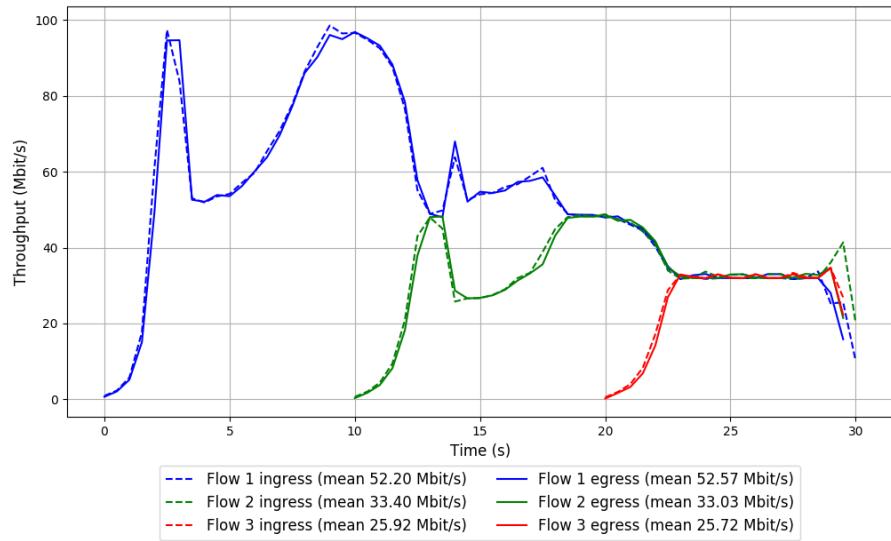


Run 6: Statistics of Vivace-loss

```
Start at: 2018-03-27 16:39:58
End at: 2018-03-27 16:40:28
Local clock offset: 10.058 ms
Remote clock offset: -53.365 ms

# Below is generated by plot.py at 2018-03-27 22:29:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.81 Mbit/s
95th percentile per-packet one-way delay: 115.448 ms
Loss rate: 1.76%
-- Flow 1:
Average throughput: 52.57 Mbit/s
95th percentile per-packet one-way delay: 114.800 ms
Loss rate: 0.87%
-- Flow 2:
Average throughput: 33.03 Mbit/s
95th percentile per-packet one-way delay: 115.730 ms
Loss rate: 3.57%
-- Flow 3:
Average throughput: 25.72 Mbit/s
95th percentile per-packet one-way delay: 116.240 ms
Loss rate: 2.48%
```

Run 6: Report of Vivace-loss — Data Link

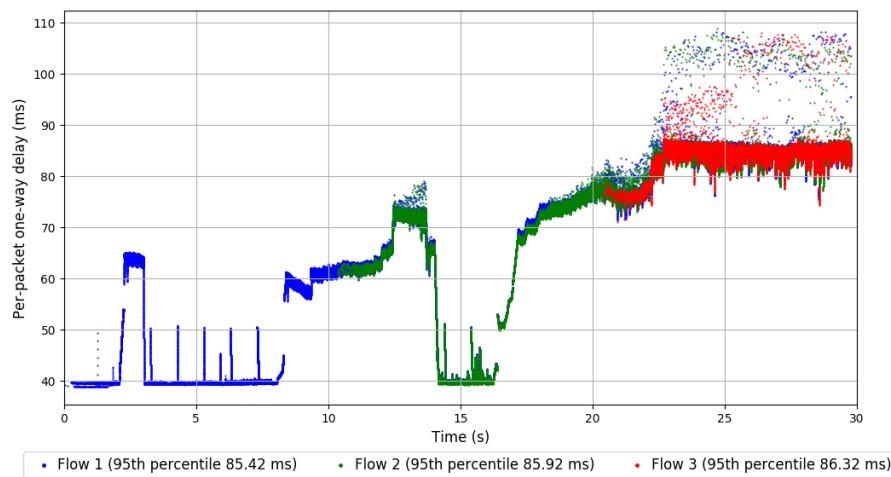
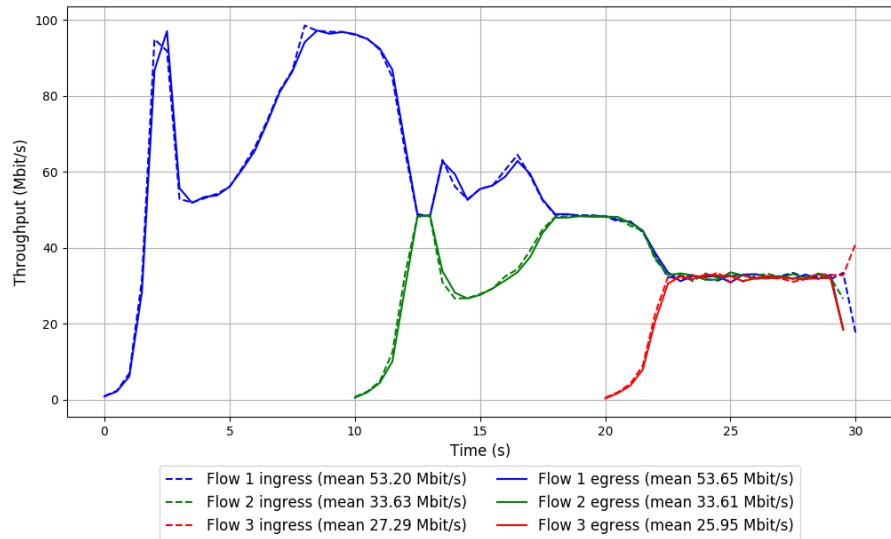


Run 7: Statistics of Vivace-loss

```
Start at: 2018-03-27 17:03:06
End at: 2018-03-27 17:03:36
Local clock offset: -1.831 ms
Remote clock offset: -17.673 ms

# Below is generated by plot.py at 2018-03-27 22:30:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.34 Mbit/s
95th percentile per-packet one-way delay: 85.800 ms
Loss rate: 2.19%
-- Flow 1:
Average throughput: 53.65 Mbit/s
95th percentile per-packet one-way delay: 85.416 ms
Loss rate: 1.16%
-- Flow 2:
Average throughput: 33.61 Mbit/s
95th percentile per-packet one-way delay: 85.919 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 25.95 Mbit/s
95th percentile per-packet one-way delay: 86.323 ms
Loss rate: 10.94%
```

Run 7: Report of Vivace-loss — Data Link

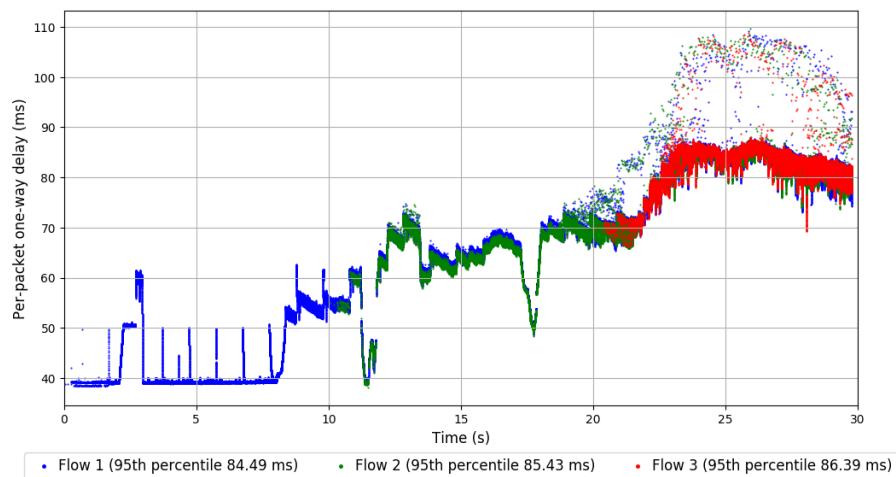
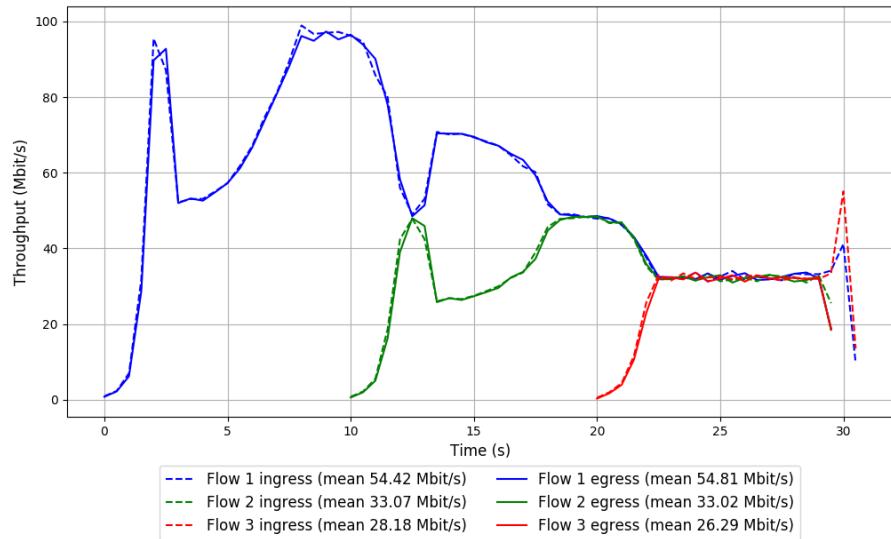


Run 8: Statistics of Vivace-loss

```
Start at: 2018-03-27 17:27:02
End at: 2018-03-27 17:27:32
Local clock offset: 3.812 ms
Remote clock offset: -17.425 ms

# Below is generated by plot.py at 2018-03-27 22:30:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.25 Mbit/s
95th percentile per-packet one-way delay: 85.366 ms
Loss rate: 3.38%
-- Flow 1:
Average throughput: 54.81 Mbit/s
95th percentile per-packet one-way delay: 84.486 ms
Loss rate: 2.27%
-- Flow 2:
Average throughput: 33.02 Mbit/s
95th percentile per-packet one-way delay: 85.429 ms
Loss rate: 0.96%
-- Flow 3:
Average throughput: 26.29 Mbit/s
95th percentile per-packet one-way delay: 86.385 ms
Loss rate: 14.87%
```

Run 8: Report of Vivace-loss — Data Link

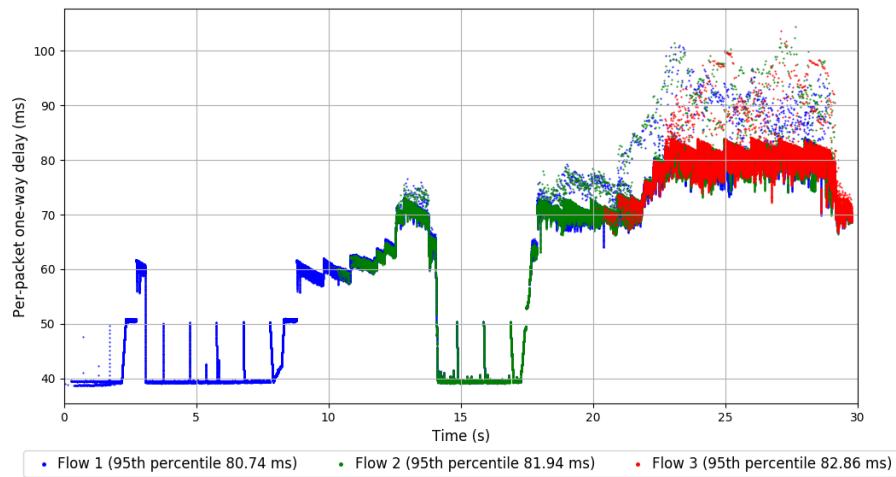
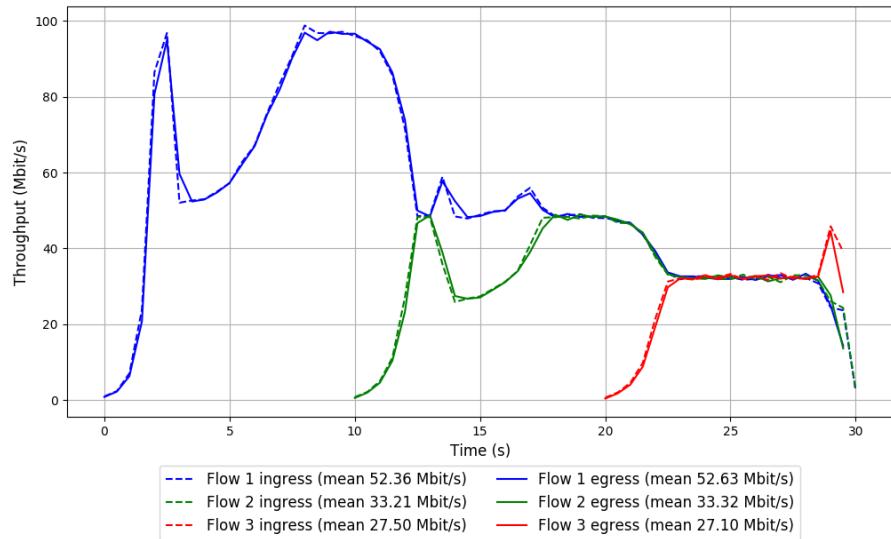


Run 9: Statistics of Vivace-loss

```
Start at: 2018-03-27 17:50:31
End at: 2018-03-27 17:51:01
Local clock offset: 9.001 ms
Remote clock offset: -10.968 ms

# Below is generated by plot.py at 2018-03-27 22:30:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.55 Mbit/s
95th percentile per-packet one-way delay: 81.728 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 52.63 Mbit/s
95th percentile per-packet one-way delay: 80.743 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 33.32 Mbit/s
95th percentile per-packet one-way delay: 81.940 ms
Loss rate: 1.26%
-- Flow 3:
Average throughput: 27.10 Mbit/s
95th percentile per-packet one-way delay: 82.855 ms
Loss rate: 3.27%
```

Run 9: Report of Vivace-loss — Data Link

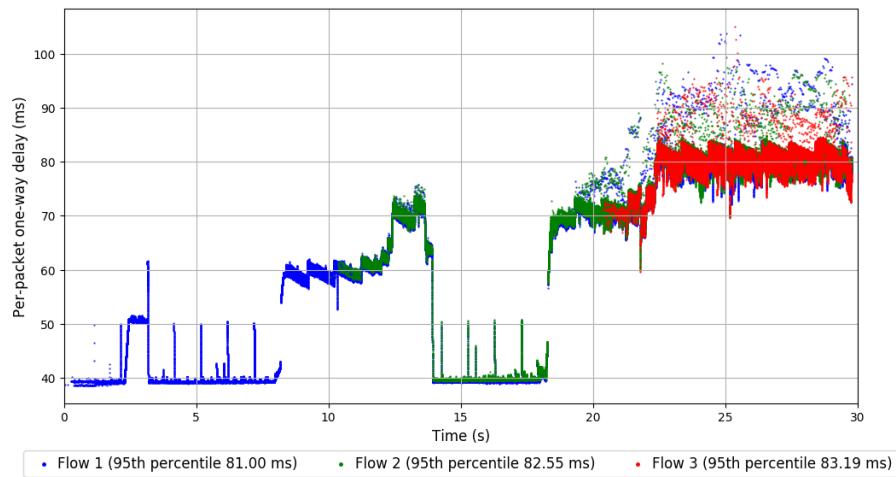
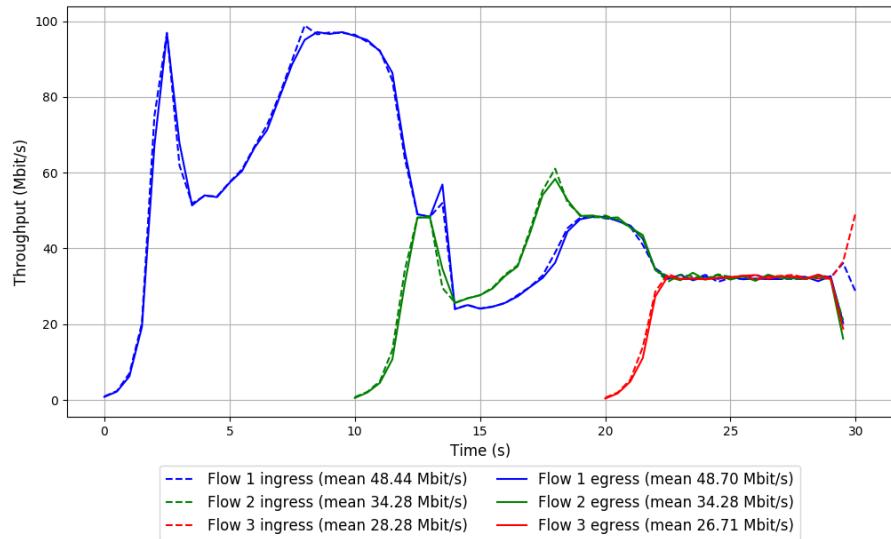


Run 10: Statistics of Vivace-loss

```
Start at: 2018-03-27 18:13:20
End at: 2018-03-27 18:13:50
Local clock offset: 2.565 ms
Remote clock offset: -9.411 ms

# Below is generated by plot.py at 2018-03-27 22:30:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.10 Mbit/s
95th percentile per-packet one-way delay: 82.109 ms
Loss rate: 2.76%
-- Flow 1:
Average throughput: 48.70 Mbit/s
95th percentile per-packet one-way delay: 81.003 ms
Loss rate: 1.76%
-- Flow 2:
Average throughput: 34.28 Mbit/s
95th percentile per-packet one-way delay: 82.554 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 26.71 Mbit/s
95th percentile per-packet one-way delay: 83.189 ms
Loss rate: 12.25%
```

### Run 10: Report of Vivace-loss — Data Link

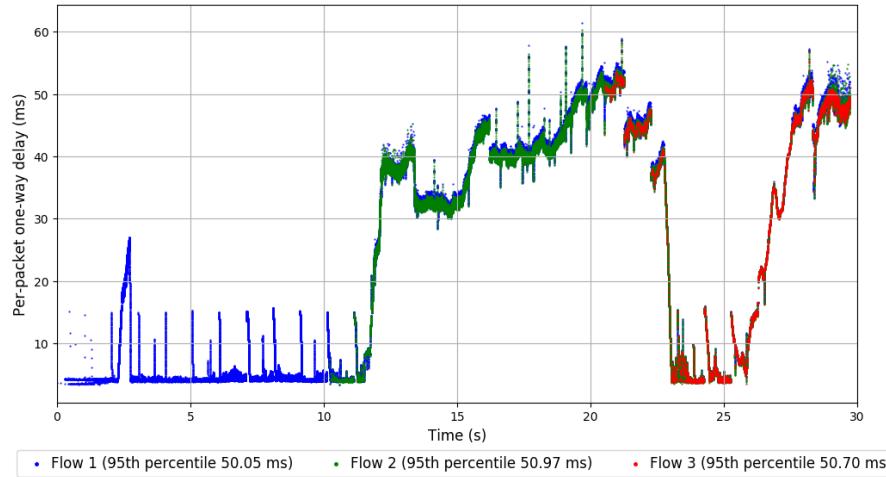
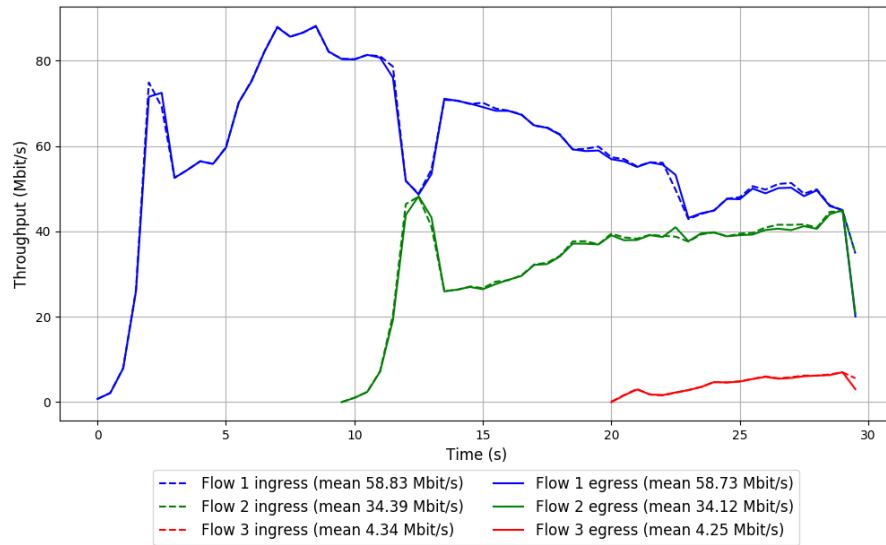


Run 1: Statistics of Vivace-LTE

```
Start at: 2018-03-27 14:27:56
End at: 2018-03-27 14:28:26
Local clock offset: -1.792 ms
Remote clock offset: 52.814 ms

# Below is generated by plot.py at 2018-03-27 22:30:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.76 Mbit/s
95th percentile per-packet one-way delay: 50.407 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 58.73 Mbit/s
95th percentile per-packet one-way delay: 50.048 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 34.12 Mbit/s
95th percentile per-packet one-way delay: 50.966 ms
Loss rate: 1.63%
-- Flow 3:
Average throughput: 4.25 Mbit/s
95th percentile per-packet one-way delay: 50.703 ms
Loss rate: 4.04%
```

Run 1: Report of Vivace-LTE — Data Link

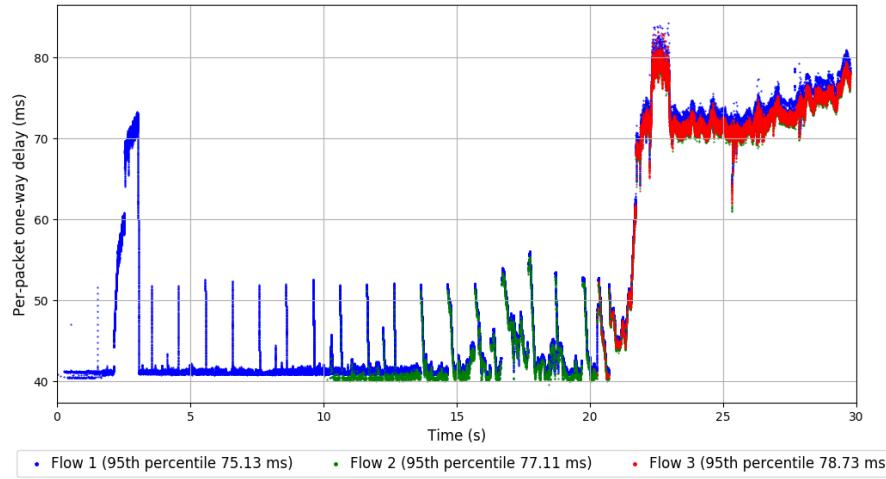
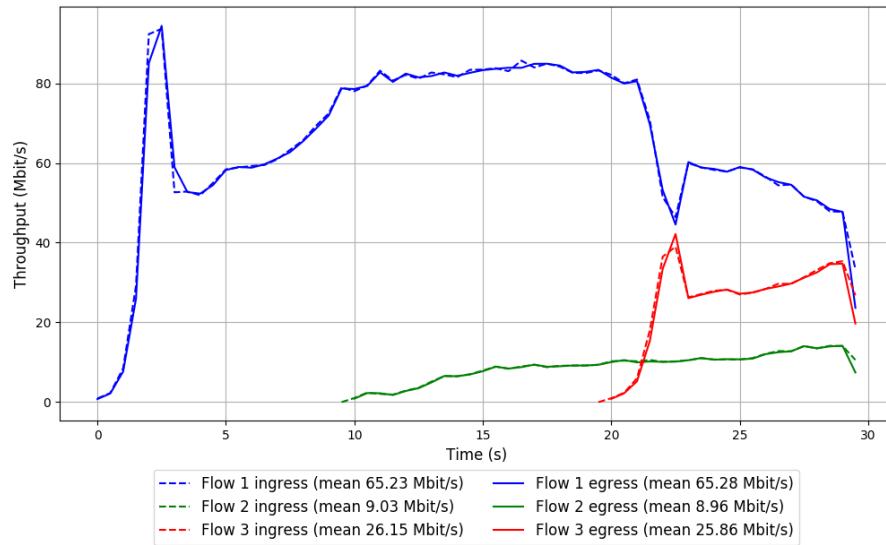


Run 2: Statistics of Vivace-LTE

```
Start at: 2018-03-27 14:51:42
End at: 2018-03-27 14:52:12
Local clock offset: -1.219 ms
Remote clock offset: -10.262 ms

# Below is generated by plot.py at 2018-03-27 22:30:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.68 Mbit/s
95th percentile per-packet one-way delay: 76.148 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 65.28 Mbit/s
95th percentile per-packet one-way delay: 75.129 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 8.96 Mbit/s
95th percentile per-packet one-way delay: 77.111 ms
Loss rate: 1.46%
-- Flow 3:
Average throughput: 25.86 Mbit/s
95th percentile per-packet one-way delay: 78.732 ms
Loss rate: 2.57%
```

Run 2: Report of Vivace-LTE — Data Link

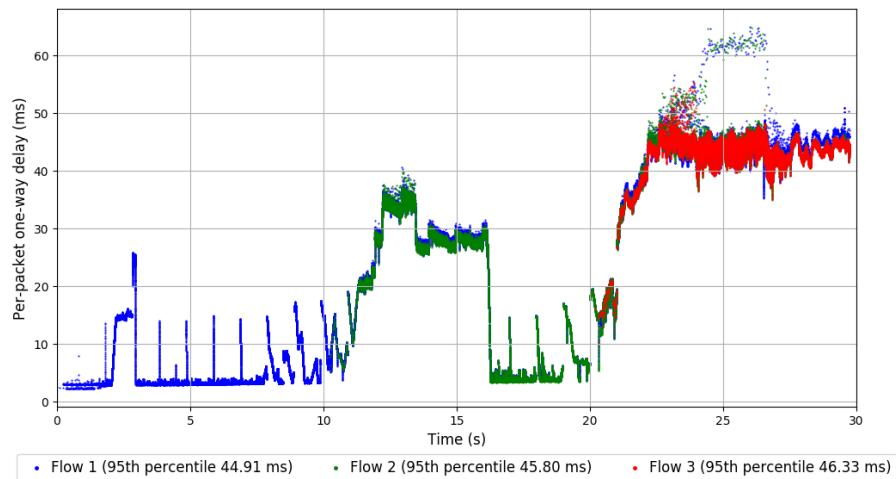
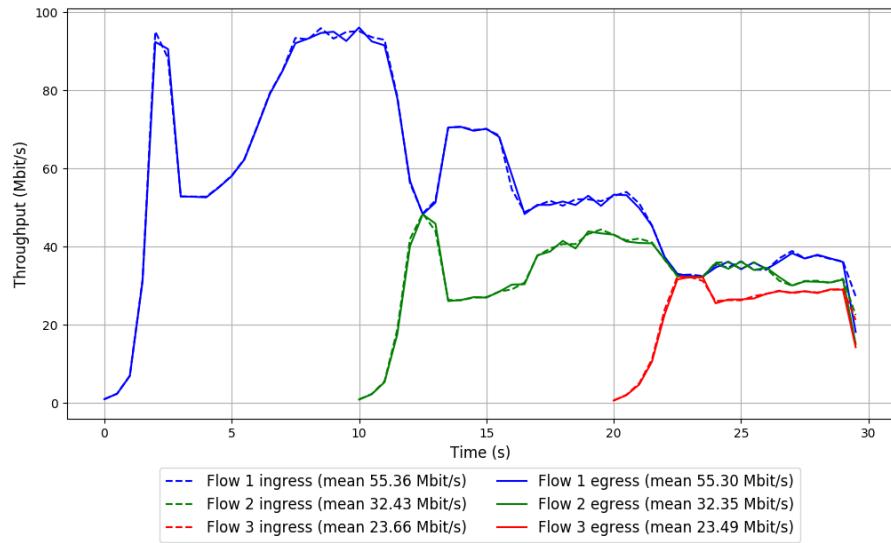


Run 3: Statistics of Vivace-LTE

```
Start at: 2018-03-27 15:16:40
End at: 2018-03-27 15:17:10
Local clock offset: -0.396 ms
Remote clock offset: 50.395 ms

# Below is generated by plot.py at 2018-03-27 22:30:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.41 Mbit/s
95th percentile per-packet one-way delay: 45.509 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 55.30 Mbit/s
95th percentile per-packet one-way delay: 44.914 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 32.35 Mbit/s
95th percentile per-packet one-way delay: 45.803 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 23.49 Mbit/s
95th percentile per-packet one-way delay: 46.331 ms
Loss rate: 2.14%
```

Run 3: Report of Vivace-LTE — Data Link

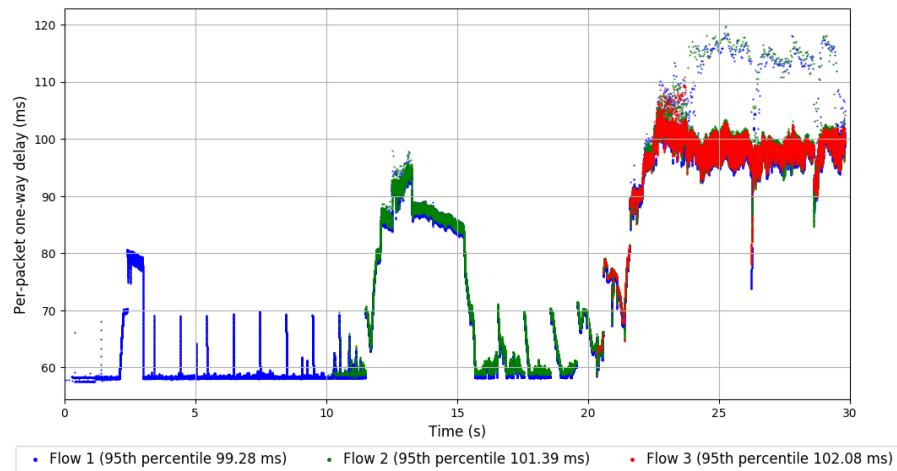
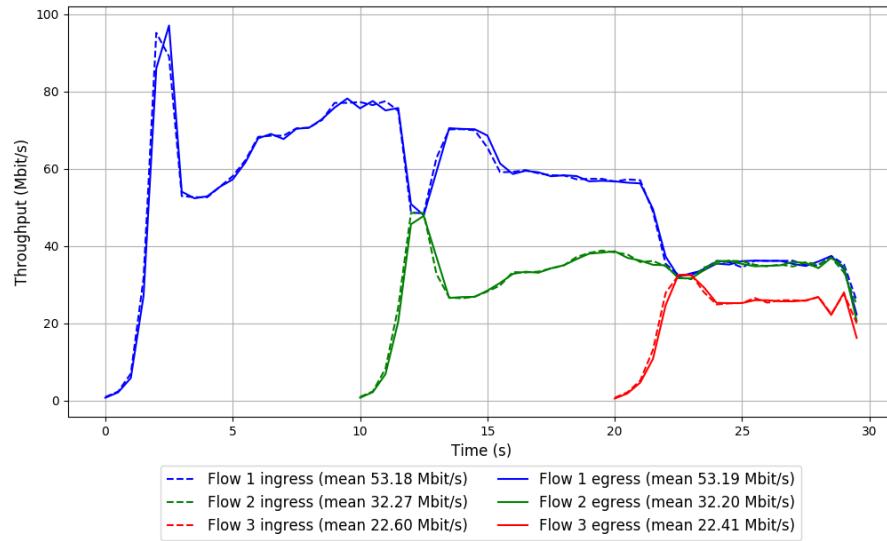


Run 4: Statistics of Vivace-LTE

```
Start at: 2018-03-27 15:41:38
End at: 2018-03-27 15:42:08
Local clock offset: 4.385 ms
Remote clock offset: 22.293 ms

# Below is generated by plot.py at 2018-03-27 22:31:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.87 Mbit/s
95th percentile per-packet one-way delay: 100.707 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 53.19 Mbit/s
95th percentile per-packet one-way delay: 99.277 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 32.20 Mbit/s
95th percentile per-packet one-way delay: 101.390 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 22.41 Mbit/s
95th percentile per-packet one-way delay: 102.079 ms
Loss rate: 2.04%
```

Run 4: Report of Vivace-LTE — Data Link

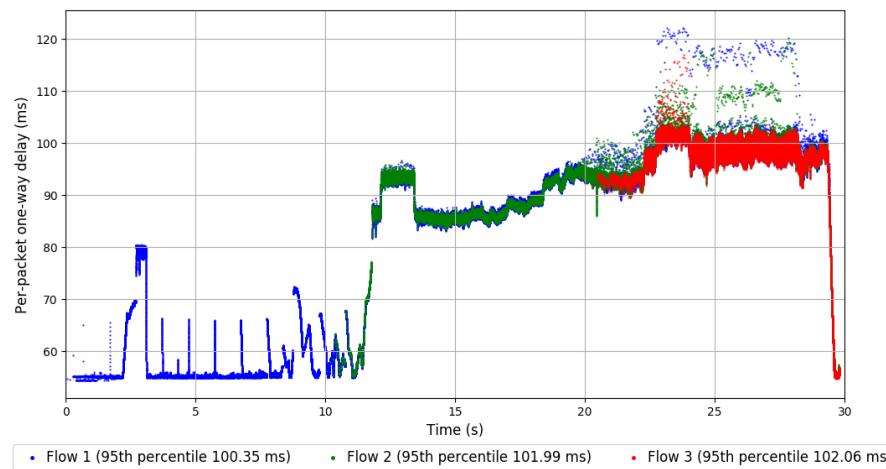
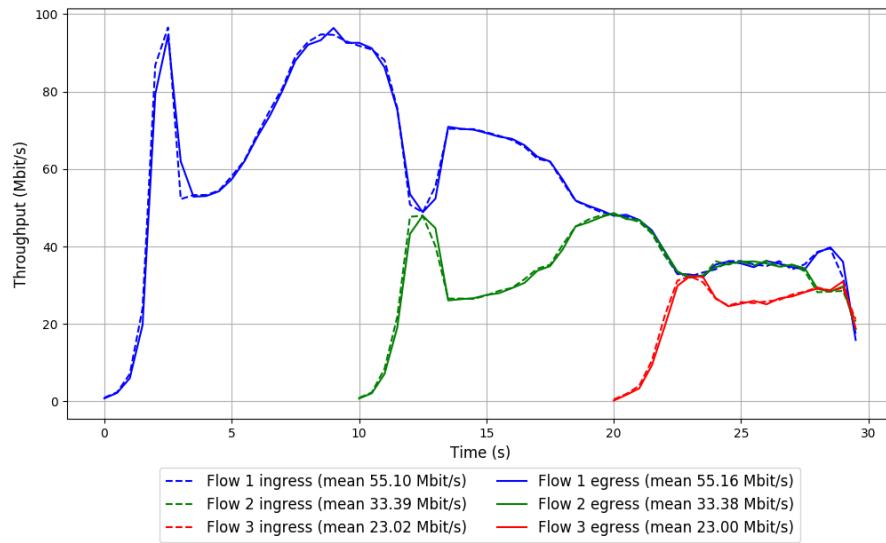


Run 5: Statistics of Vivace-LTE

```
Start at: 2018-03-27 16:05:17
End at: 2018-03-27 16:05:47
Local clock offset: 9.545 ms
Remote clock offset: 9.135 ms

# Below is generated by plot.py at 2018-03-27 22:31:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.79 Mbit/s
95th percentile per-packet one-way delay: 101.317 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 55.16 Mbit/s
95th percentile per-packet one-way delay: 100.353 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 33.38 Mbit/s
95th percentile per-packet one-way delay: 101.992 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 23.00 Mbit/s
95th percentile per-packet one-way delay: 102.060 ms
Loss rate: 1.52%
```

Run 5: Report of Vivace-LTE — Data Link

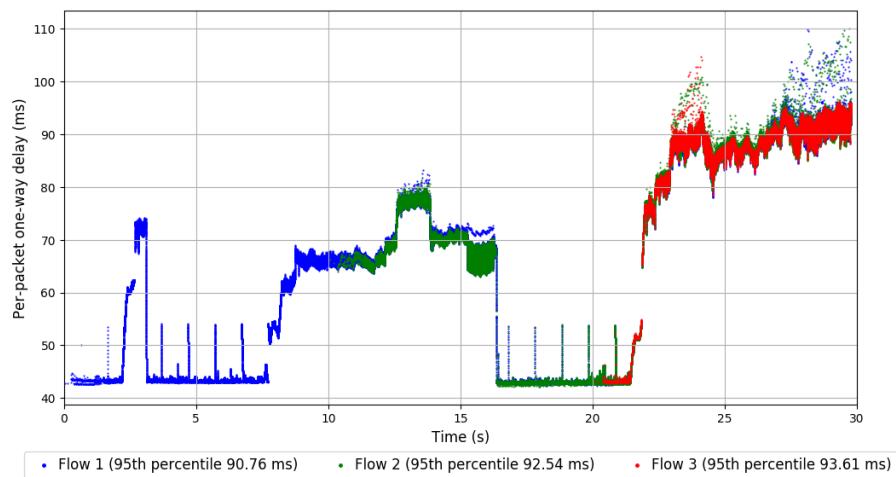
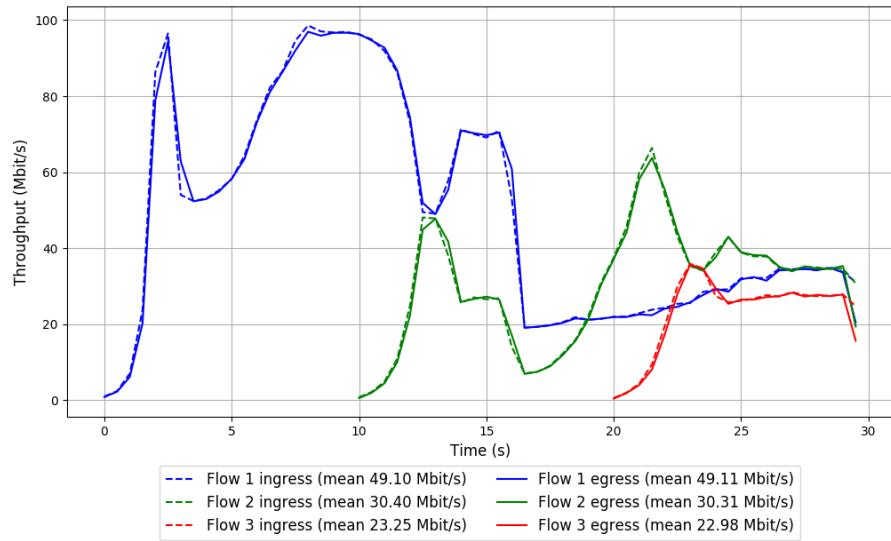


Run 6: Statistics of Vivace-LTE

```
Start at: 2018-03-27 16:30:56
End at: 2018-03-27 16:31:26
Local clock offset: 9.235 ms
Remote clock offset: -16.689 ms

# Below is generated by plot.py at 2018-03-27 22:31:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.68 Mbit/s
95th percentile per-packet one-way delay: 92.199 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 49.11 Mbit/s
95th percentile per-packet one-way delay: 90.759 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 30.31 Mbit/s
95th percentile per-packet one-way delay: 92.537 ms
Loss rate: 1.50%
-- Flow 3:
Average throughput: 22.98 Mbit/s
95th percentile per-packet one-way delay: 93.607 ms
Loss rate: 3.17%
```

Run 6: Report of Vivace-LTE — Data Link

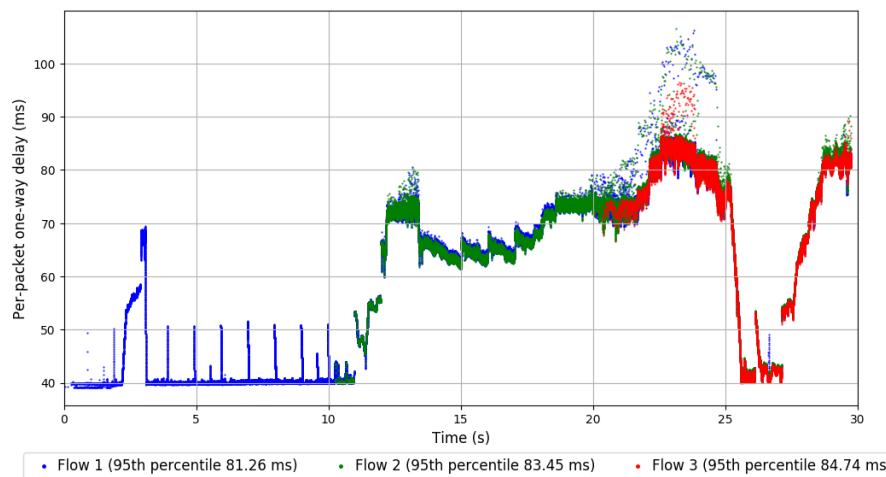
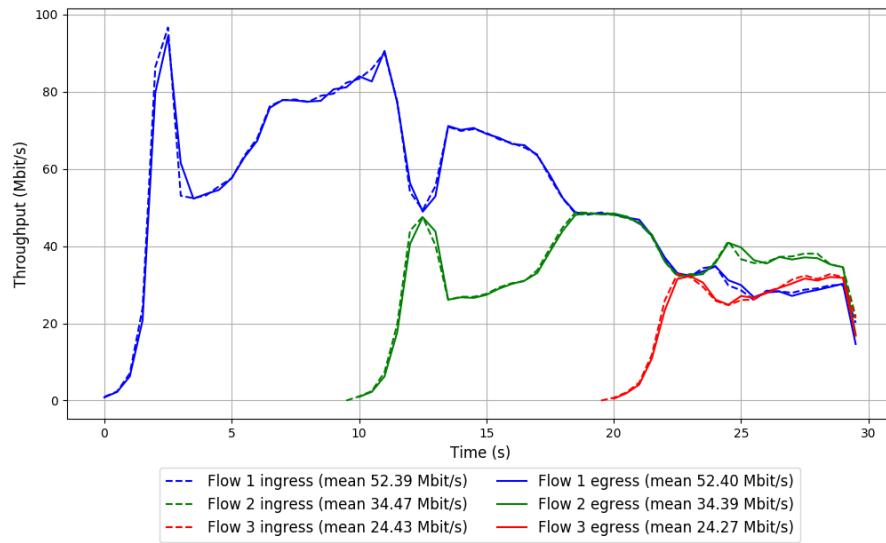


Run 7: Statistics of Vivace-LTE

```
Start at: 2018-03-27 16:55:18
End at: 2018-03-27 16:55:48
Local clock offset: 1.206 ms
Remote clock offset: -22.508 ms

# Below is generated by plot.py at 2018-03-27 22:31:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.16 Mbit/s
95th percentile per-packet one-way delay: 82.736 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 52.40 Mbit/s
95th percentile per-packet one-way delay: 81.257 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 34.39 Mbit/s
95th percentile per-packet one-way delay: 83.446 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 24.27 Mbit/s
95th percentile per-packet one-way delay: 84.739 ms
Loss rate: 2.20%
```

Run 7: Report of Vivace-LTE — Data Link

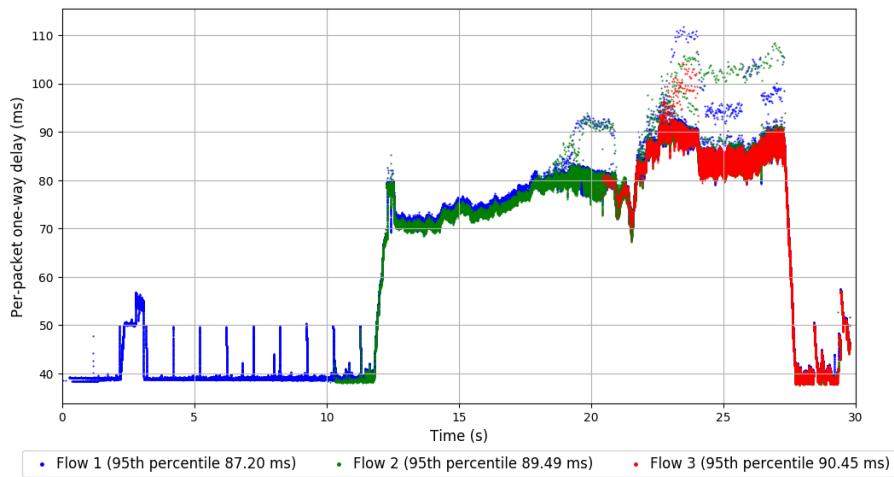
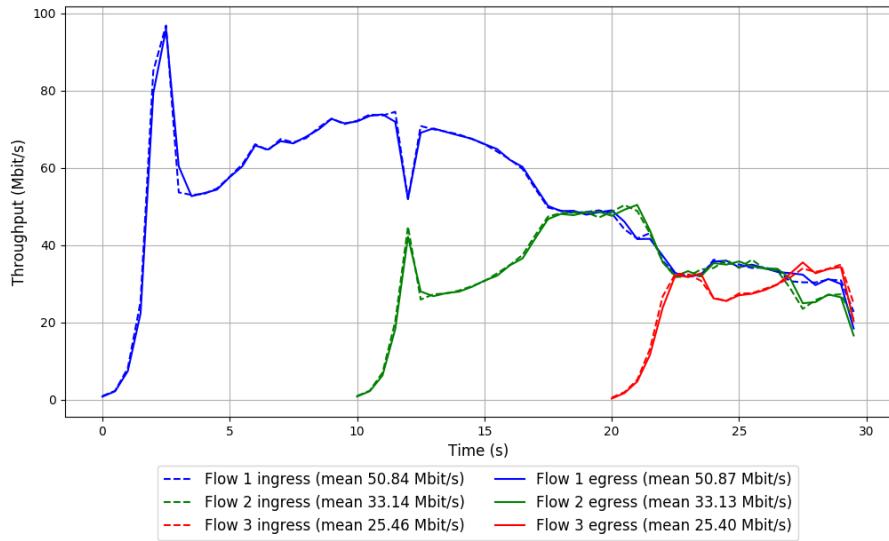


Run 8: Statistics of Vivace-LTE

```
Start at: 2018-03-27 17:18:59
End at: 2018-03-27 17:19:29
Local clock offset: -3.423 ms
Remote clock offset: -18.483 ms

# Below is generated by plot.py at 2018-03-27 22:31:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.14 Mbit/s
95th percentile per-packet one-way delay: 89.184 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 50.87 Mbit/s
95th percentile per-packet one-way delay: 87.198 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 33.13 Mbit/s
95th percentile per-packet one-way delay: 89.492 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 25.40 Mbit/s
95th percentile per-packet one-way delay: 90.451 ms
Loss rate: 1.72%
```

Run 8: Report of Vivace-LTE — Data Link

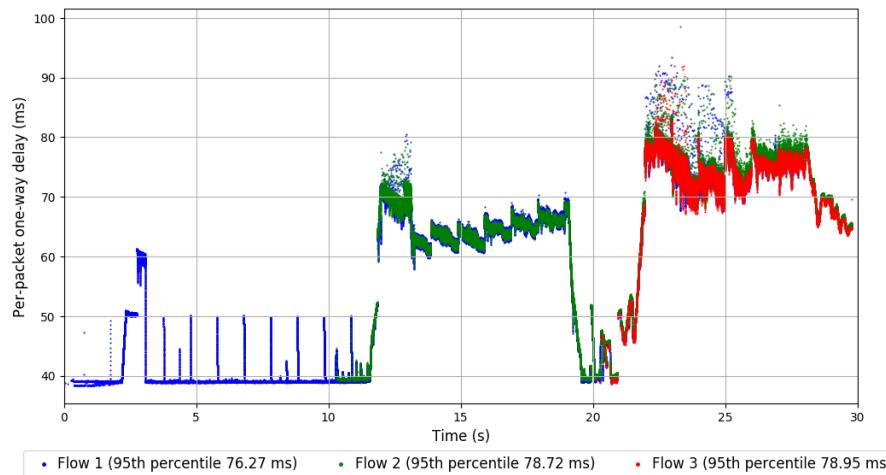
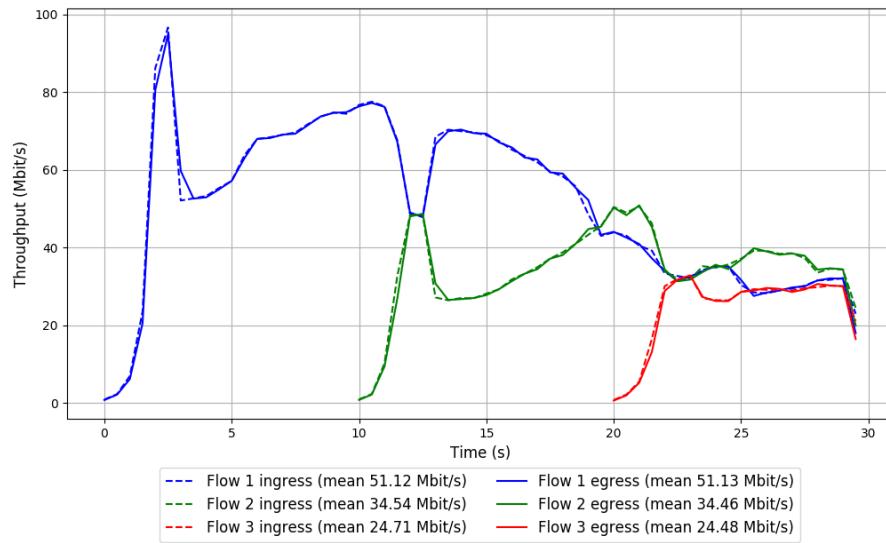


Run 9: Statistics of Vivace-LTE

```
Start at: 2018-03-27 17:42:51
End at: 2018-03-27 17:43:21
Local clock offset: 8.078 ms
Remote clock offset: -11.178 ms

# Below is generated by plot.py at 2018-03-27 22:31:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.00 Mbit/s
95th percentile per-packet one-way delay: 77.876 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 51.13 Mbit/s
95th percentile per-packet one-way delay: 76.272 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 34.46 Mbit/s
95th percentile per-packet one-way delay: 78.724 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 24.48 Mbit/s
95th percentile per-packet one-way delay: 78.950 ms
Loss rate: 1.98%
```

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

```
Start at: 2018-03-27 18:05:39
End at: 2018-03-27 18:06:09
Local clock offset: 3.474 ms
Remote clock offset: -9.869 ms

# Below is generated by plot.py at 2018-03-27 22:31:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.69 Mbit/s
95th percentile per-packet one-way delay: 80.853 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 57.00 Mbit/s
95th percentile per-packet one-way delay: 79.692 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 29.48 Mbit/s
95th percentile per-packet one-way delay: 81.177 ms
Loss rate: 0.86%
-- Flow 3:
Average throughput: 24.88 Mbit/s
95th percentile per-packet one-way delay: 82.121 ms
Loss rate: 2.03%
```

Run 10: Report of Vivace-LTE — Data Link

