

## Pantheon Report

Generated at 2018-06-07 22:41:54 (UTC).

Data path: GCE Tokyo Ethernet (*remote*) → GCE Sydney Ethernet (*local*).

Repeated the test of 16 congestion control schemes 10 times.

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

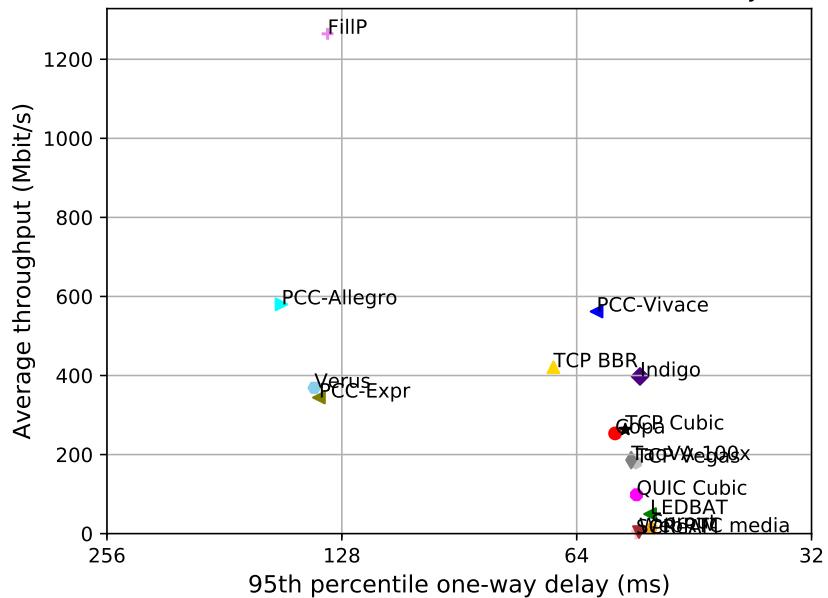
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

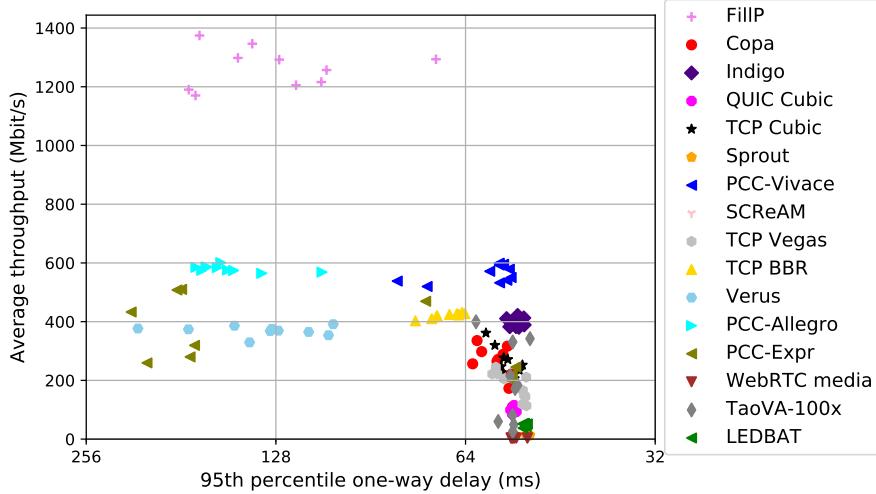
Git summary:

```
branch: master @ 227fdf9a3757f17b88537cceed5743a33037a3d2
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
  M src/ScreamClient
  M src/ScreamServer
third_party/sprout @ c838669682f0c19f6baf92afc9a596a406d48c1f
  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 @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from GCE Tokyo to GCE Sydney, 10 runs of 30s each per scheme  
3 flows with 10s interval between flows (mean of all runs by scheme)



test from GCE Tokyo to GCE Sydney, 10 runs of 30s each per scheme  
3 flows with 10s interval between flows



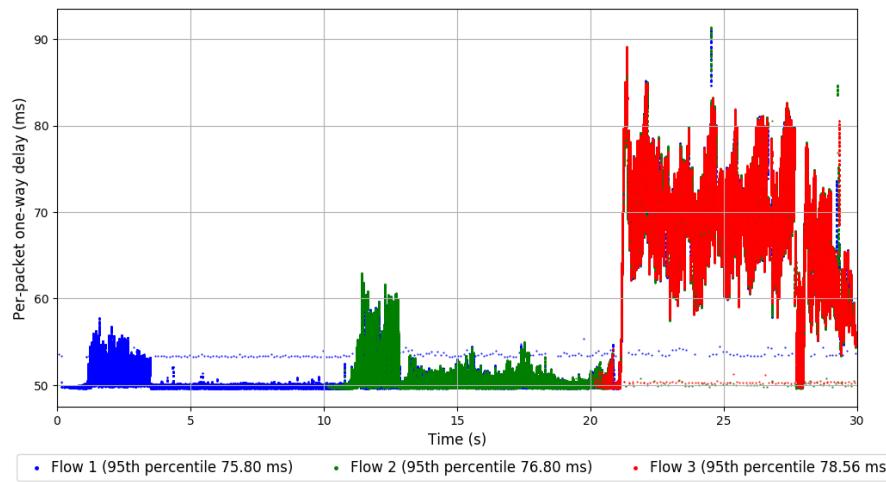
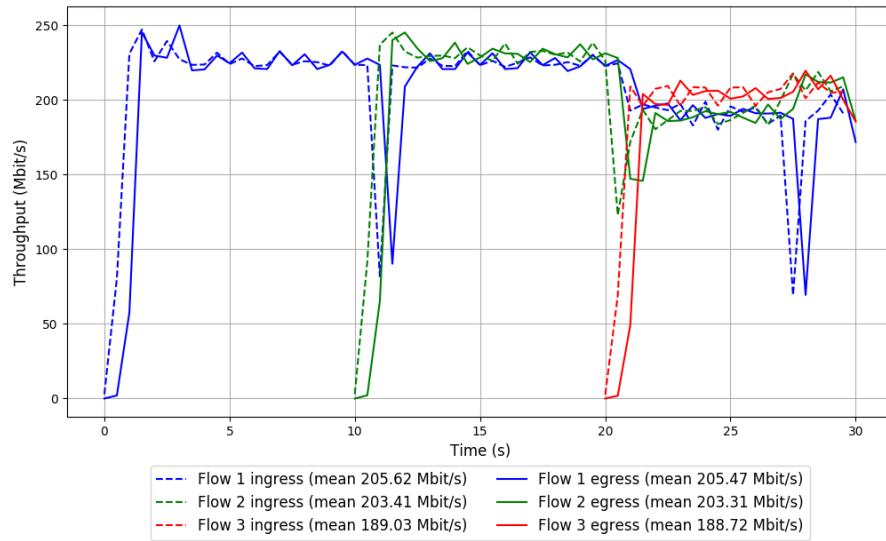
| scheme       | # runs | mean avg tput (Mbit/s) |        |        | mean 95th-%ile delay (ms) |        |        | mean loss rate (%) |        |        |
|--------------|--------|------------------------|--------|--------|---------------------------|--------|--------|--------------------|--------|--------|
|              |        | flow 1                 | flow 2 | flow 3 | flow 1                    | flow 2 | flow 3 | flow 1             | flow 2 | flow 3 |
| TCP BBR      | 10     | 215.31                 | 209.81 | 200.40 | 67.00                     | 68.40  | 70.81  | 0.37               | 0.56   | 1.20   |
| Copa         |        | 141.94                 | 132.58 | 70.94  | 56.35                     | 58.05  | 54.59  | 0.36               | 0.51   | 1.35   |
| TCP Cubic    |        | 166.55                 | 112.62 | 66.61  | 55.05                     | 55.52  | 55.07  | 0.39               | 1.14   | 2.41   |
| FillP        |        | 695.31                 | 607.56 | 503.29 | 125.31                    | 134.77 | 102.91 | 1.51               | 0.87   | 1.94   |
| Indigo       |        | 212.68                 | 196.63 | 166.13 | 52.58                     | 53.22  | 53.88  | 0.34               | 0.48   | 1.17   |
| LEDBAT       |        | 33.49                  | 18.84  | 10.80  | 51.60                     | 51.34  | 51.28  | 0.68               | 1.27   | 2.11   |
| PCC-Allegro  |        | 553.72                 | 27.83  | 23.93  | 153.11                    | 149.43 | 128.24 | 1.99               | 2.05   | 2.61   |
| PCC-Expr     |        | 206.36                 | 155.93 | 104.96 | 124.99                    | 125.70 | 113.70 | 2.26               | 2.75   | 3.69   |
| QUIC Cubic   |        | 57.79                  | 44.79  | 32.79  | 52.34                     | 52.88  | 53.03  | 0.45               | 0.82   | 0.92   |
| SCReAM       |        | 0.21                   | 0.21   | 0.22   | 52.99                     | 52.36  | 52.97  | 0.34               | 0.61   | 0.98   |
| Sprout       |        | 6.47                   | 6.91   | 6.13   | 52.18                     | 50.99  | 51.26  | 0.36               | 0.44   | 1.46   |
| TaoVA-100x   |        | 100.66                 | 101.96 | 116.78 | 53.12                     | 54.18  | 56.79  | 0.25               | 0.37   | 0.61   |
| TCP Vegas    |        | 105.68                 | 61.43  | 100.86 | 53.34                     | 53.19  | 54.19  | 0.30               | 0.67   | 1.20   |
| Verus        |        | 225.23                 | 164.09 | 108.66 | 126.15                    | 141.61 | 156.58 | 0.67               | 1.75   | 2.17   |
| PCC-Vivace   |        | 334.86                 | 266.56 | 152.97 | 59.64                     | 69.72  | 54.14  | 0.30               | 0.73   | 1.36   |
| WebRTC media |        | 2.02                   | 1.32   | 0.55   | 52.15                     | 52.86  | 52.43  | 0.35               | 0.65   | 1.51   |

Run 1: Statistics of TCP BBR

```
Start at: 2018-06-07 16:38:30
End at: 2018-06-07 16:39:00
Local clock offset: -0.238 ms
Remote clock offset: -0.707 ms

# Below is generated by plot.py at 2018-06-07 20:40:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 402.98 Mbit/s
95th percentile per-packet one-way delay: 76.868 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 205.47 Mbit/s
95th percentile per-packet one-way delay: 75.798 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 203.31 Mbit/s
95th percentile per-packet one-way delay: 76.797 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 188.72 Mbit/s
95th percentile per-packet one-way delay: 78.562 ms
Loss rate: 1.18%
```

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

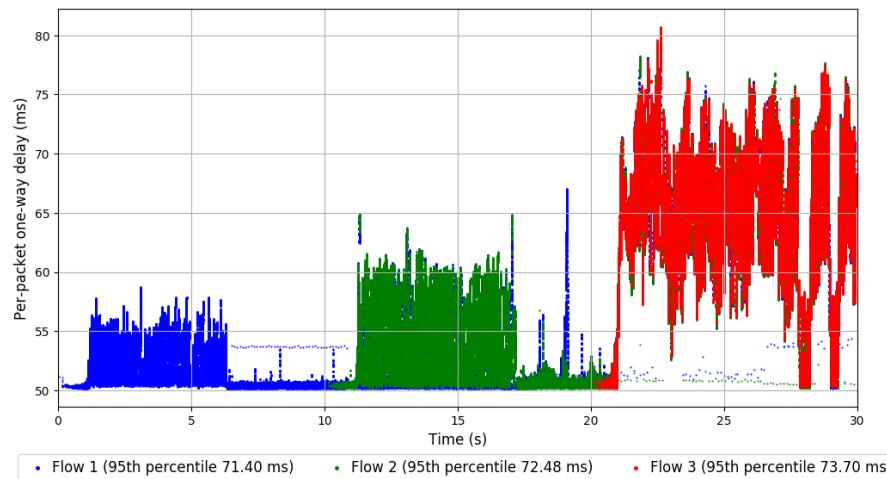
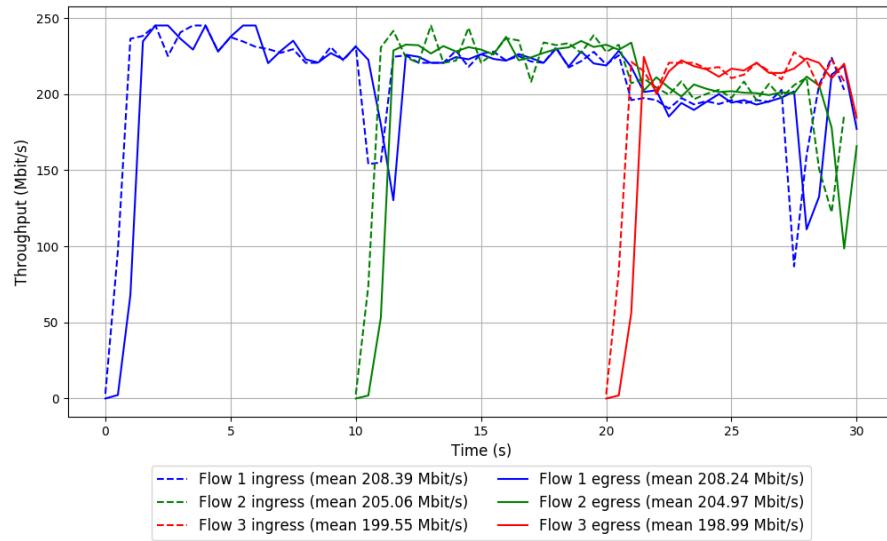


Run 2: Statistics of TCP BBR

```
Start at: 2018-06-07 17:00:56
End at: 2018-06-07 17:01:26
Local clock offset: -0.084 ms
Remote clock offset: -0.508 ms

# Below is generated by plot.py at 2018-06-07 20:40:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 410.17 Mbit/s
95th percentile per-packet one-way delay: 72.419 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 208.24 Mbit/s
95th percentile per-packet one-way delay: 71.398 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 204.97 Mbit/s
95th percentile per-packet one-way delay: 72.478 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 198.99 Mbit/s
95th percentile per-packet one-way delay: 73.699 ms
Loss rate: 1.29%
```

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

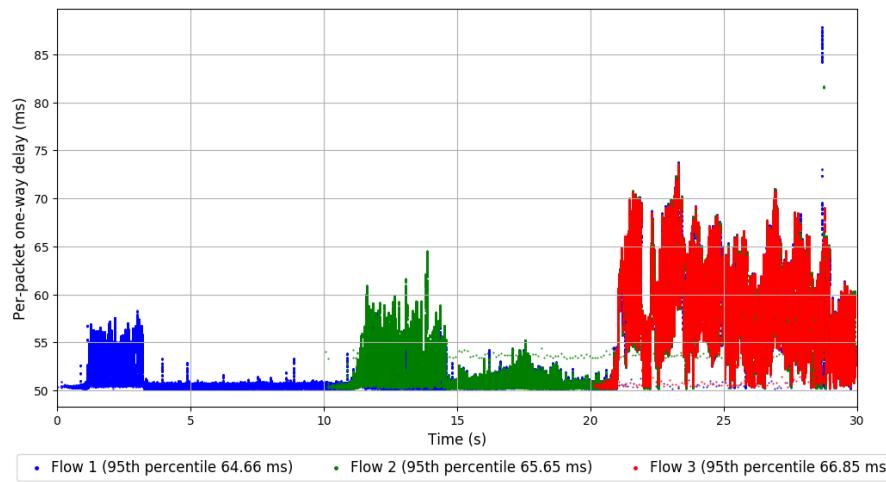
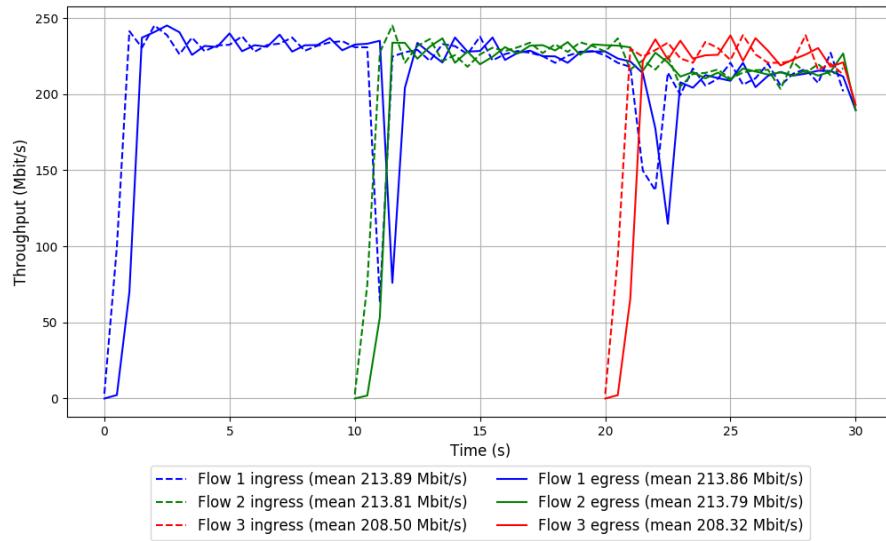


Run 3: Statistics of TCP BBR

```
Start at: 2018-06-07 17:23:48
End at: 2018-06-07 17:24:18
Local clock offset: 0.044 ms
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2018-06-07 20:40:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 424.87 Mbit/s
95th percentile per-packet one-way delay: 65.626 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 213.86 Mbit/s
95th percentile per-packet one-way delay: 64.660 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 213.79 Mbit/s
95th percentile per-packet one-way delay: 65.652 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 208.32 Mbit/s
95th percentile per-packet one-way delay: 66.853 ms
Loss rate: 1.09%
```

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

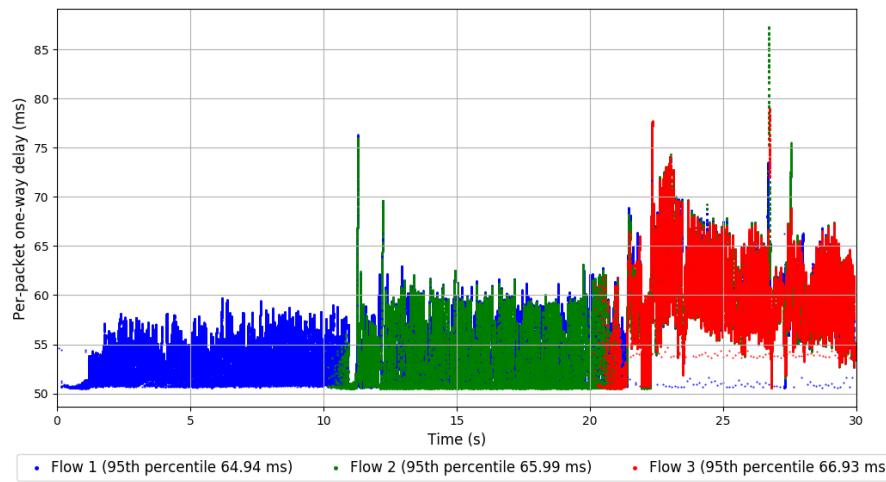
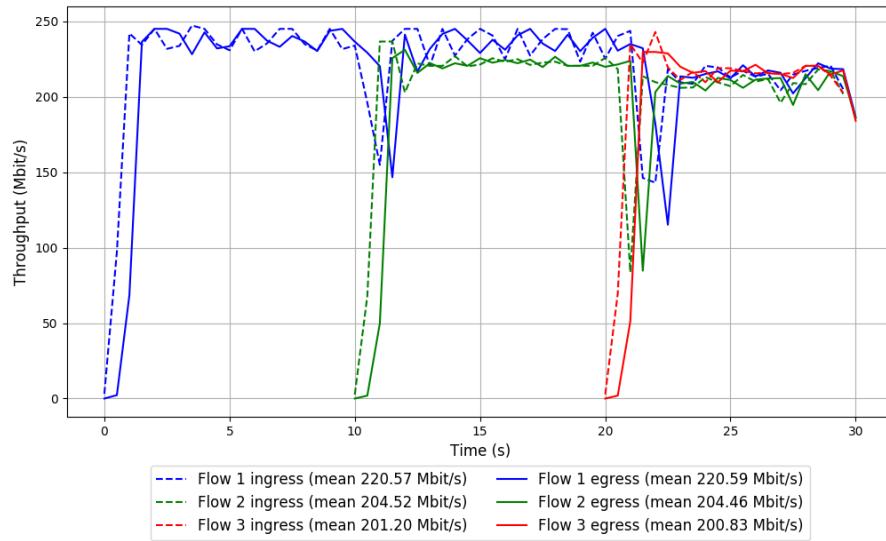


Run 4: Statistics of TCP BBR

```
Start at: 2018-06-07 17:46:34
End at: 2018-06-07 17:47:04
Local clock offset: 0.372 ms
Remote clock offset: 0.095 ms

# Below is generated by plot.py at 2018-06-07 20:40:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 422.84 Mbit/s
95th percentile per-packet one-way delay: 65.735 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 220.59 Mbit/s
95th percentile per-packet one-way delay: 64.939 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 204.46 Mbit/s
95th percentile per-packet one-way delay: 65.991 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 200.83 Mbit/s
95th percentile per-packet one-way delay: 66.926 ms
Loss rate: 1.13%
```

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

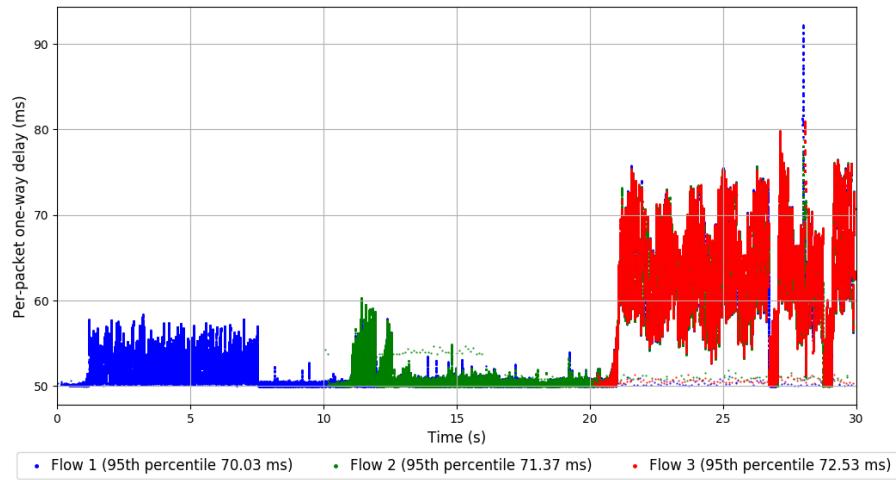
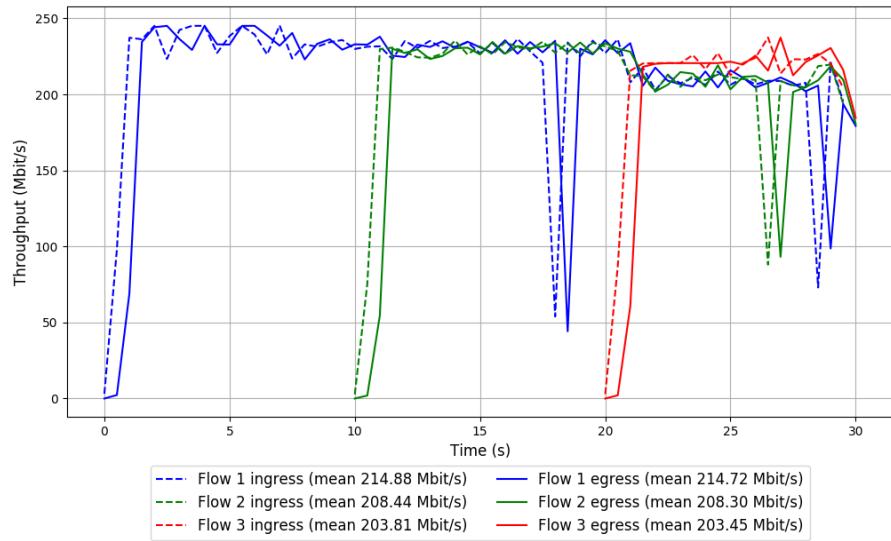


Run 5: Statistics of TCP BBR

```
Start at: 2018-06-07 18:09:39
End at: 2018-06-07 18:10:09
Local clock offset: 0.108 ms
Remote clock offset: 0.605 ms

# Below is generated by plot.py at 2018-06-07 20:40:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 420.29 Mbit/s
95th percentile per-packet one-way delay: 71.078 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 214.72 Mbit/s
95th percentile per-packet one-way delay: 70.027 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 208.30 Mbit/s
95th percentile per-packet one-way delay: 71.367 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 203.45 Mbit/s
95th percentile per-packet one-way delay: 72.530 ms
Loss rate: 1.19%
```

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

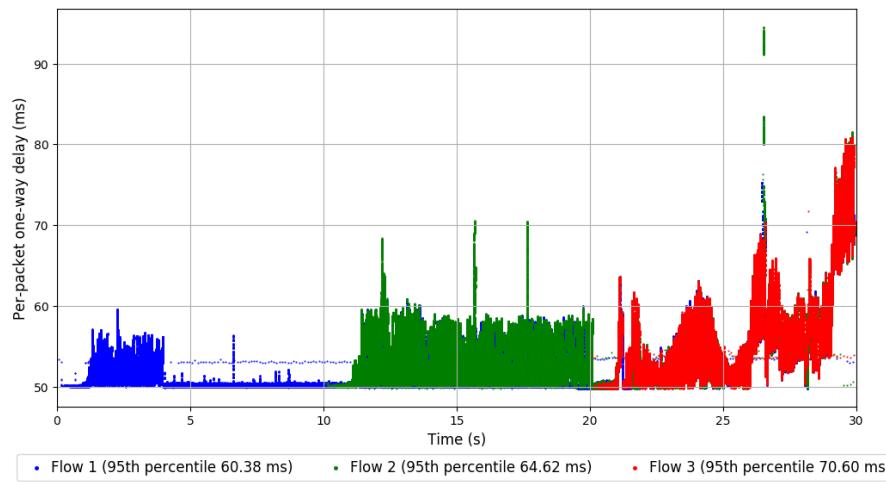
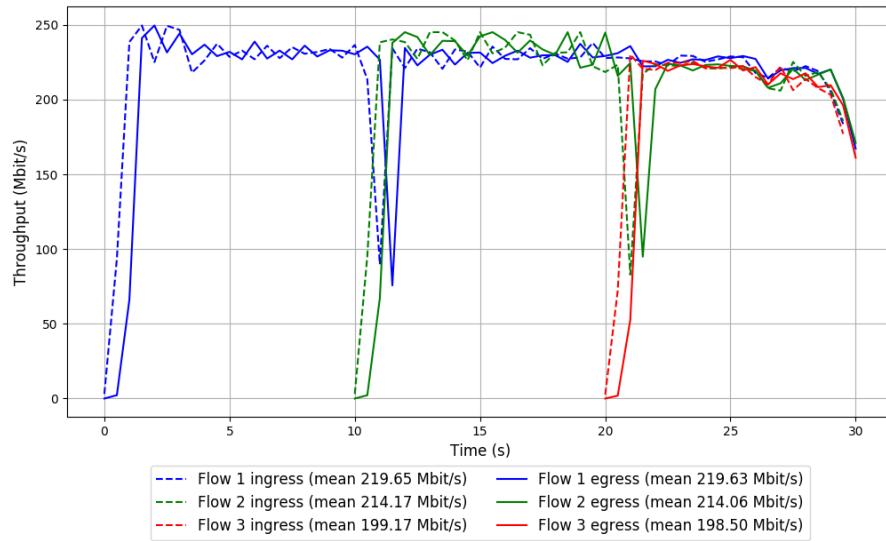


Run 6: Statistics of TCP BBR

```
Start at: 2018-06-07 18:32:26
End at: 2018-06-07 18:32:56
Local clock offset: -0.16 ms
Remote clock offset: 0.752 ms

# Below is generated by plot.py at 2018-06-07 20:40:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 427.54 Mbit/s
95th percentile per-packet one-way delay: 64.154 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 219.63 Mbit/s
95th percentile per-packet one-way delay: 60.384 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 214.06 Mbit/s
95th percentile per-packet one-way delay: 64.618 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 198.50 Mbit/s
95th percentile per-packet one-way delay: 70.601 ms
Loss rate: 1.16%
```

Run 6: Report of TCP BBR — Data Link

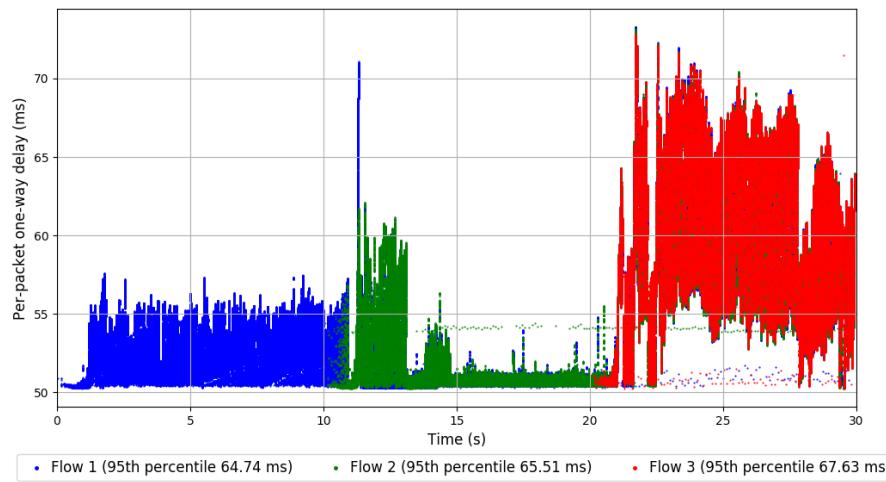
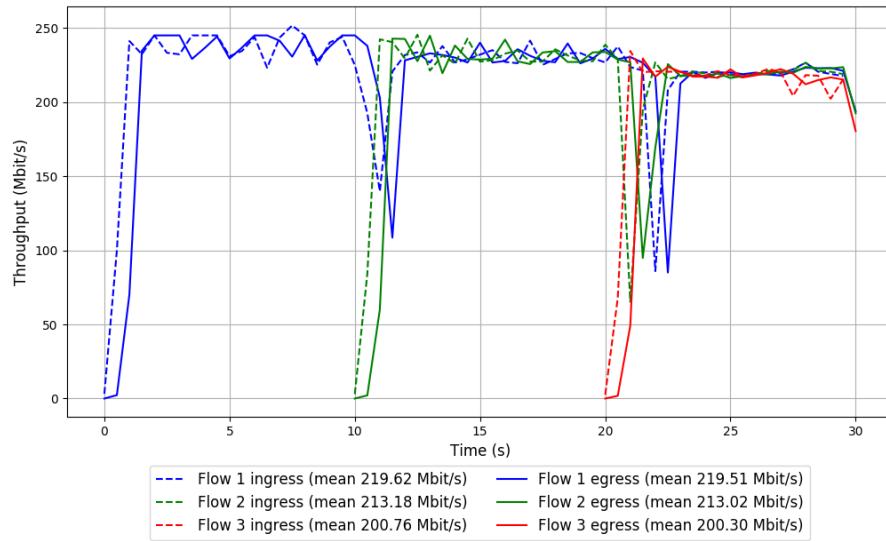


Run 7: Statistics of TCP BBR

```
Start at: 2018-06-07 18:55:31
End at: 2018-06-07 18:56:01
Local clock offset: 0.15 ms
Remote clock offset: -0.289 ms

# Below is generated by plot.py at 2018-06-07 20:40:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 427.28 Mbit/s
95th percentile per-packet one-way delay: 66.043 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 219.51 Mbit/s
95th percentile per-packet one-way delay: 64.739 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 213.02 Mbit/s
95th percentile per-packet one-way delay: 65.509 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 200.30 Mbit/s
95th percentile per-packet one-way delay: 67.630 ms
Loss rate: 1.24%
```

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

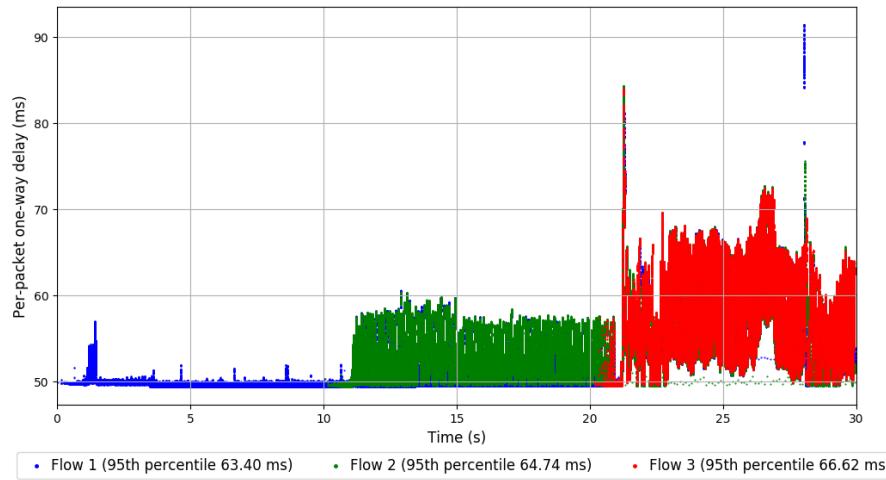
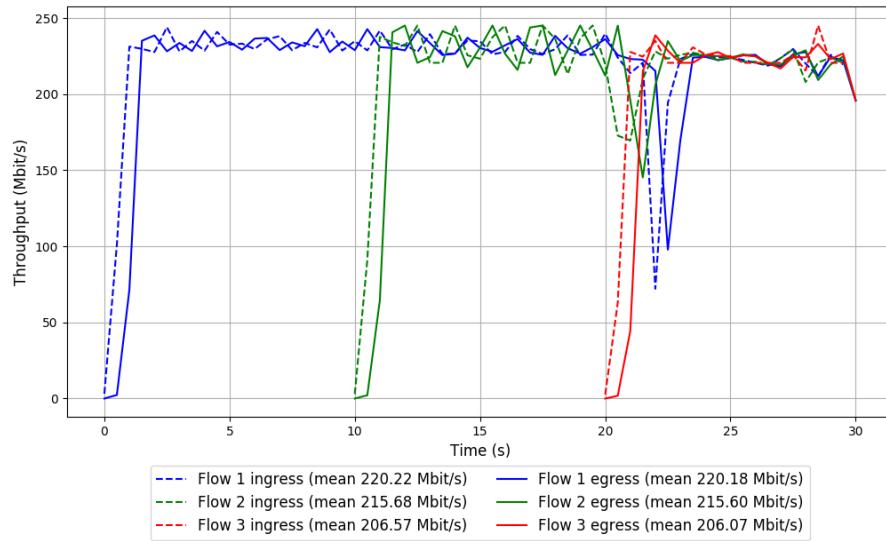


Run 8: Statistics of TCP BBR

```
Start at: 2018-06-07 19:18:42
End at: 2018-06-07 19:19:12
Local clock offset: -0.37 ms
Remote clock offset: -0.207 ms

# Below is generated by plot.py at 2018-06-07 20:40:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 431.49 Mbit/s
95th percentile per-packet one-way delay: 64.798 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 220.18 Mbit/s
95th percentile per-packet one-way delay: 63.398 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 215.60 Mbit/s
95th percentile per-packet one-way delay: 64.740 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 206.07 Mbit/s
95th percentile per-packet one-way delay: 66.619 ms
Loss rate: 1.19%
```

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

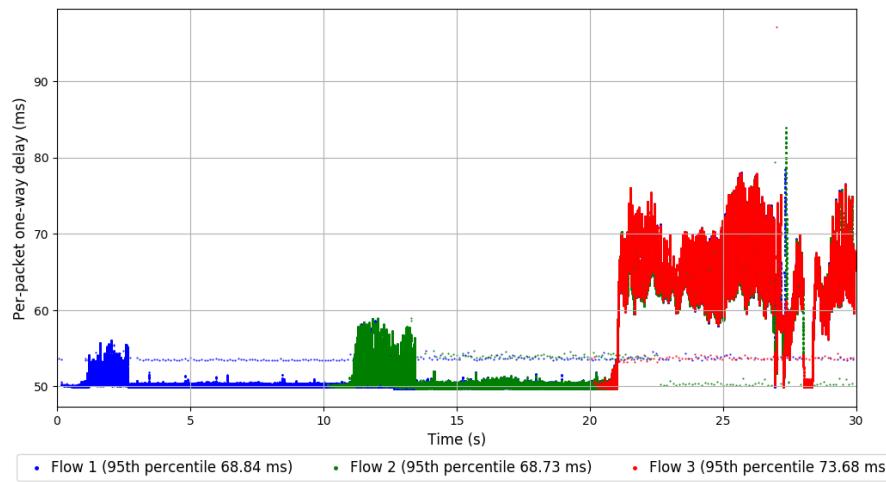
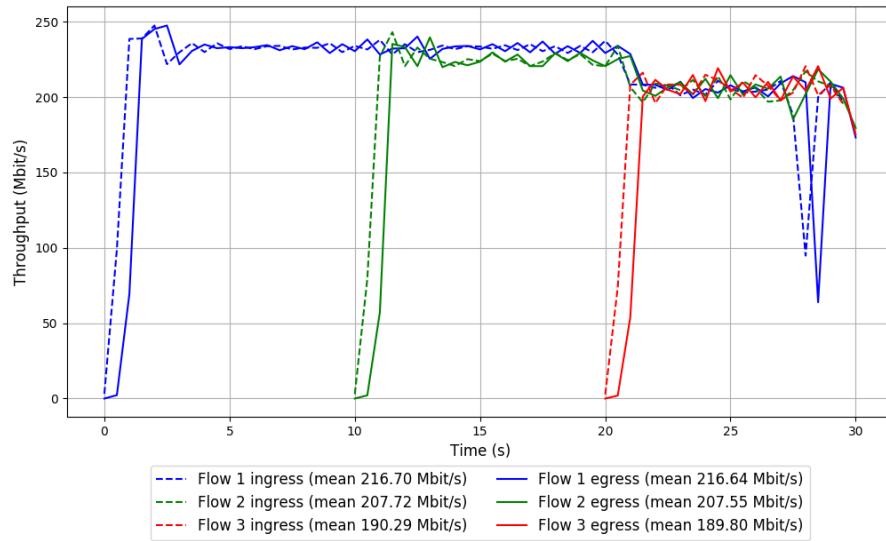


Run 9: Statistics of TCP BBR

```
Start at: 2018-06-07 19:41:03
End at: 2018-06-07 19:41:33
Local clock offset: -0.006 ms
Remote clock offset: -0.241 ms

# Below is generated by plot.py at 2018-06-07 20:46:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 417.42 Mbit/s
95th percentile per-packet one-way delay: 70.904 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 216.64 Mbit/s
95th percentile per-packet one-way delay: 68.845 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 207.55 Mbit/s
95th percentile per-packet one-way delay: 68.732 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 189.80 Mbit/s
95th percentile per-packet one-way delay: 73.676 ms
Loss rate: 1.29%
```

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

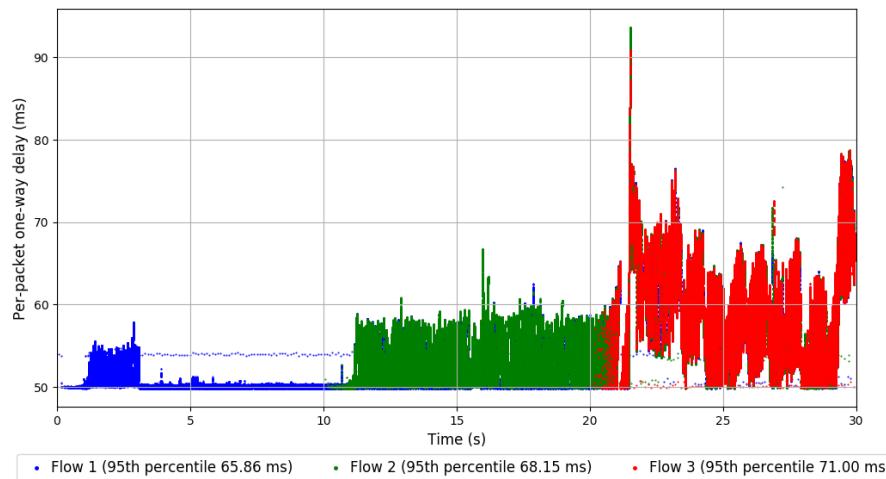
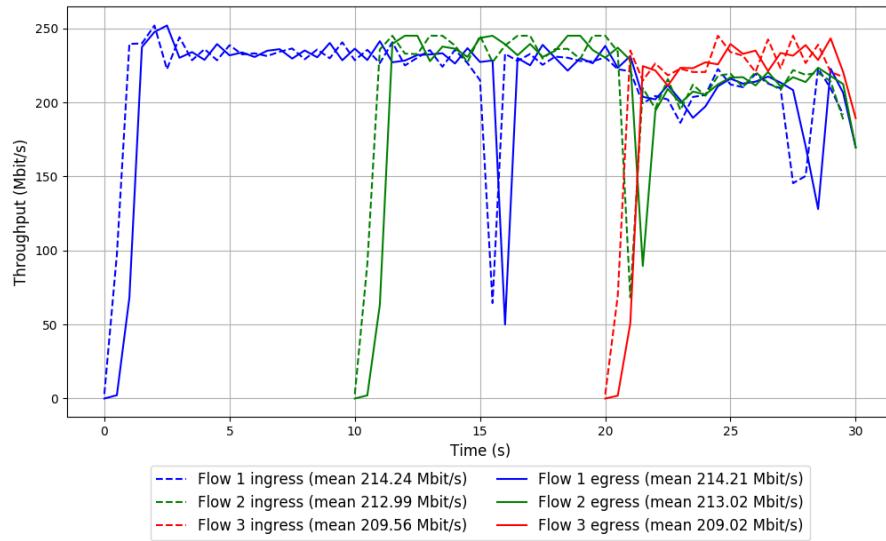


Run 10: Statistics of TCP BBR

```
Start at: 2018-06-07 20:03:33
End at: 2018-06-07 20:04:03
Local clock offset: -0.372 ms
Remote clock offset: -0.288 ms

# Below is generated by plot.py at 2018-06-07 20:46:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 424.67 Mbit/s
95th percentile per-packet one-way delay: 67.867 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 214.21 Mbit/s
95th percentile per-packet one-way delay: 65.860 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 213.02 Mbit/s
95th percentile per-packet one-way delay: 68.146 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 209.02 Mbit/s
95th percentile per-packet one-way delay: 71.005 ms
Loss rate: 1.25%
```

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

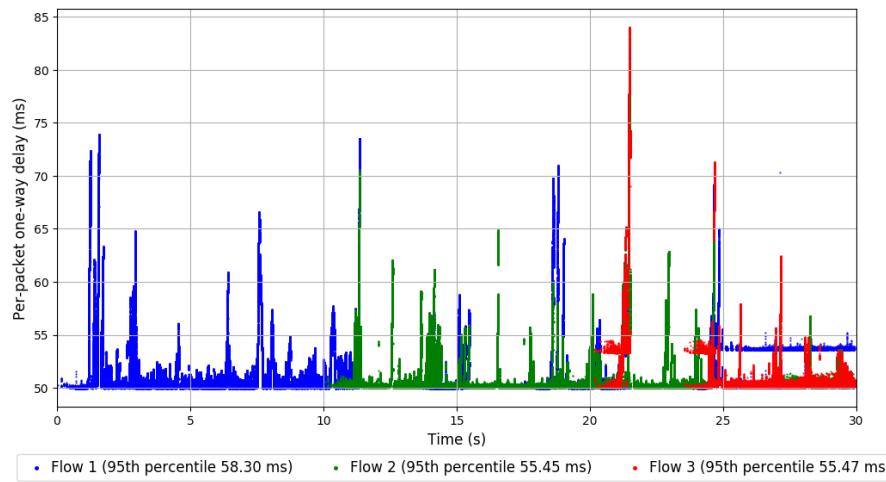
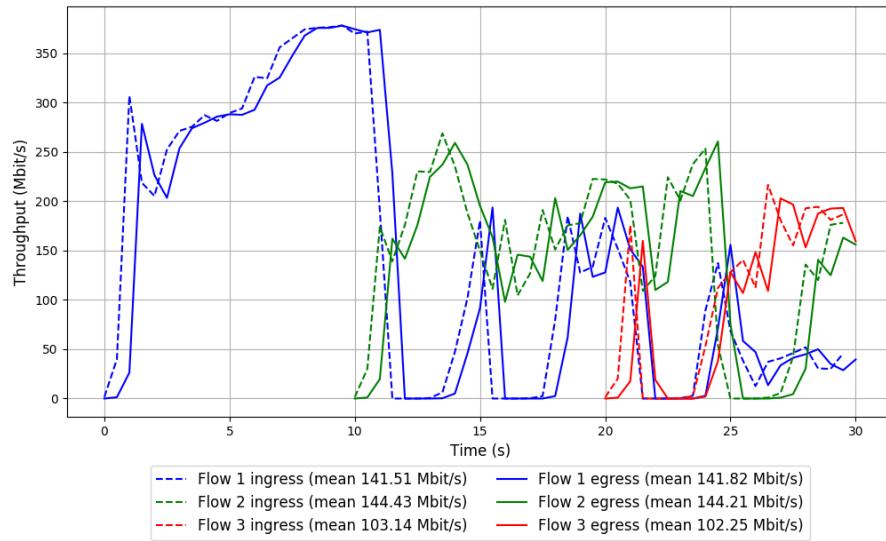


Run 1: Statistics of Copa

```
Start at: 2018-06-07 16:41:58
End at: 2018-06-07 16:42:28
Local clock offset: -0.227 ms
Remote clock offset: -1.135 ms

# Below is generated by plot.py at 2018-06-07 20:48:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 271.44 Mbit/s
95th percentile per-packet one-way delay: 56.820 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 141.82 Mbit/s
95th percentile per-packet one-way delay: 58.299 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 144.21 Mbit/s
95th percentile per-packet one-way delay: 55.446 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 102.25 Mbit/s
95th percentile per-packet one-way delay: 55.473 ms
Loss rate: 1.91%
```

Run 1: Report of Copa — Data Link

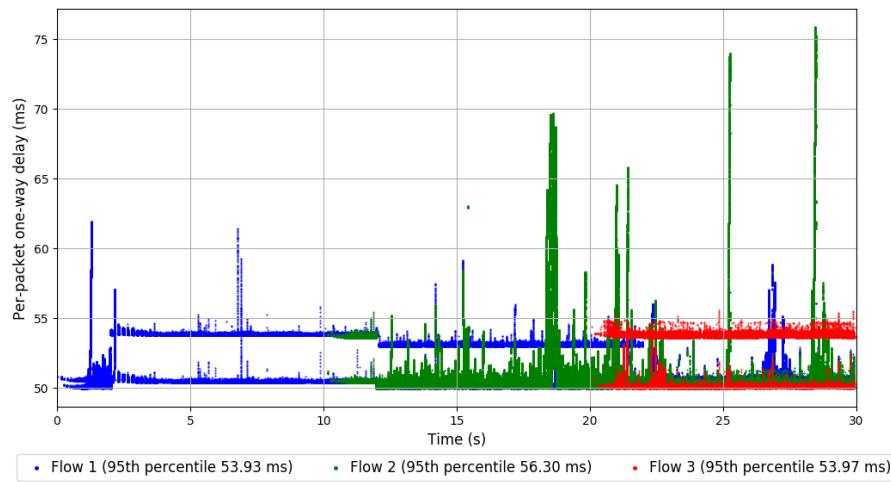
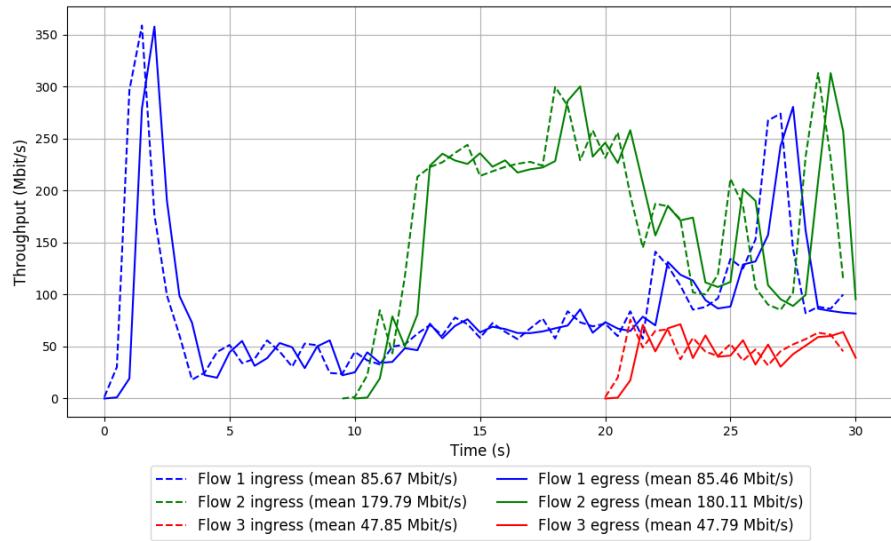


Run 2: Statistics of Copa

```
Start at: 2018-06-07 17:04:21
End at: 2018-06-07 17:04:51
Local clock offset: -0.246 ms
Remote clock offset: -0.378 ms

# Below is generated by plot.py at 2018-06-07 20:48:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 221.02 Mbit/s
95th percentile per-packet one-way delay: 54.203 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 85.46 Mbit/s
95th percentile per-packet one-way delay: 53.931 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 180.11 Mbit/s
95th percentile per-packet one-way delay: 56.300 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 47.79 Mbit/s
95th percentile per-packet one-way delay: 53.967 ms
Loss rate: 1.18%
```

## Run 2: Report of Copa — Data Link

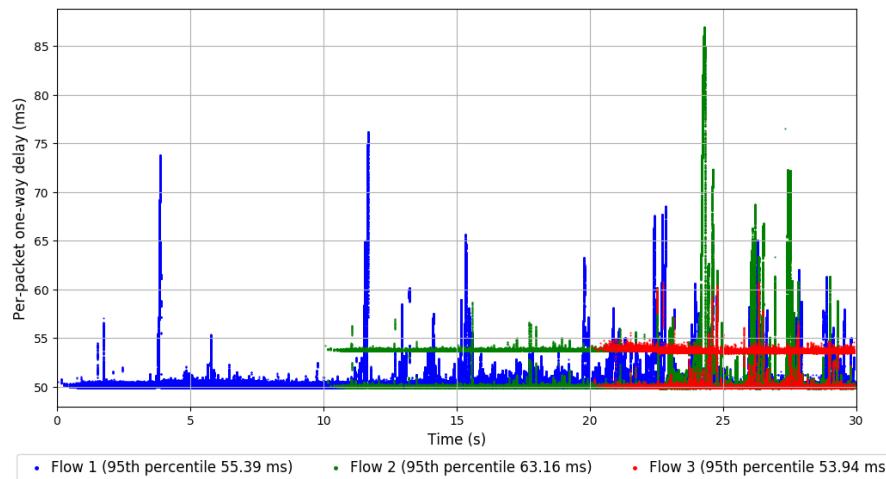
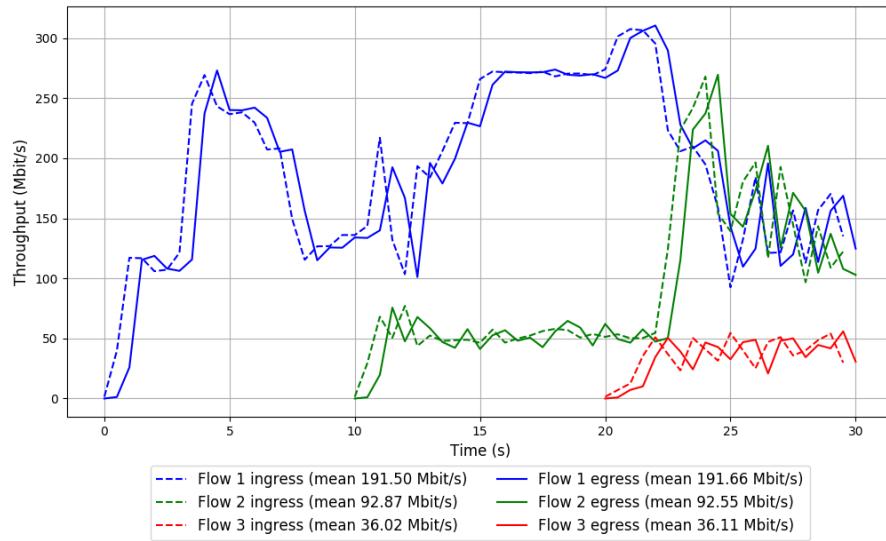


Run 3: Statistics of Copa

```
Start at: 2018-06-07 17:27:13
End at: 2018-06-07 17:27:43
Local clock offset: 0.013 ms
Remote clock offset: 0.255 ms

# Below is generated by plot.py at 2018-06-07 20:48:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 265.12 Mbit/s
95th percentile per-packet one-way delay: 57.058 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 191.66 Mbit/s
95th percentile per-packet one-way delay: 55.391 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 92.55 Mbit/s
95th percentile per-packet one-way delay: 63.156 ms
Loss rate: 0.86%
-- Flow 3:
Average throughput: 36.11 Mbit/s
95th percentile per-packet one-way delay: 53.943 ms
Loss rate: 0.85%
```

### Run 3: Report of Copa — Data Link

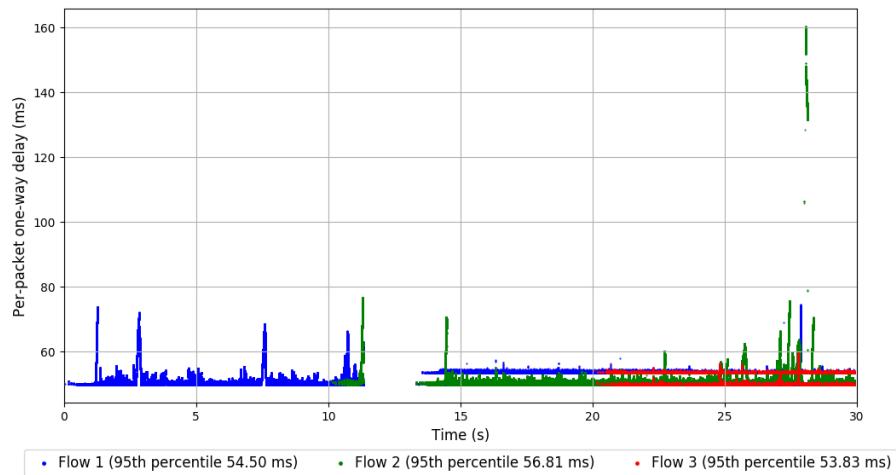
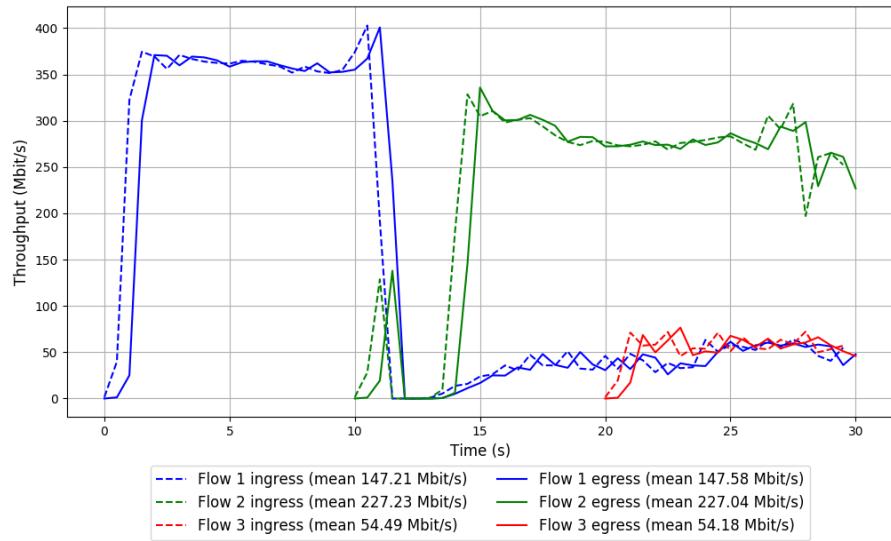


Run 4: Statistics of Copa

```
Start at: 2018-06-07 17:50:02
End at: 2018-06-07 17:50:32
Local clock offset: 0.122 ms
Remote clock offset: 0.43 ms

# Below is generated by plot.py at 2018-06-07 20:49:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 316.38 Mbit/s
95th percentile per-packet one-way delay: 54.931 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 147.58 Mbit/s
95th percentile per-packet one-way delay: 54.498 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 227.04 Mbit/s
95th percentile per-packet one-way delay: 56.807 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 54.18 Mbit/s
95th percentile per-packet one-way delay: 53.826 ms
Loss rate: 1.43%
```

## Run 4: Report of Copa — Data Link

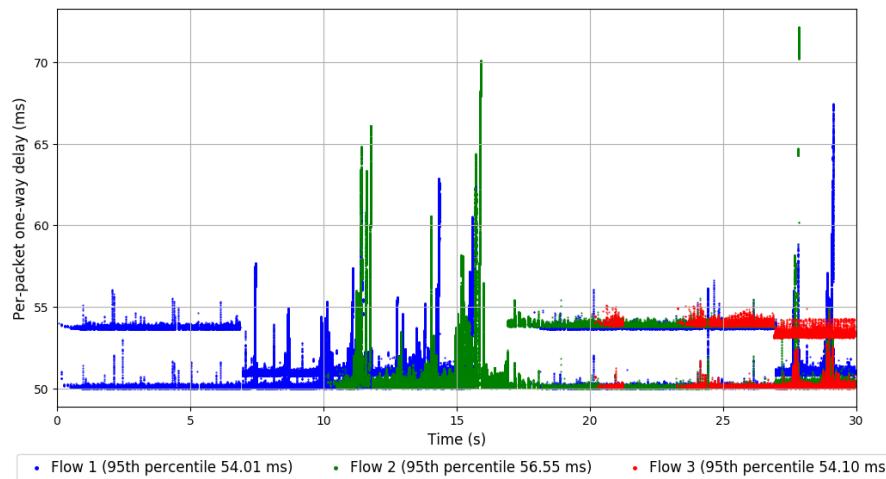
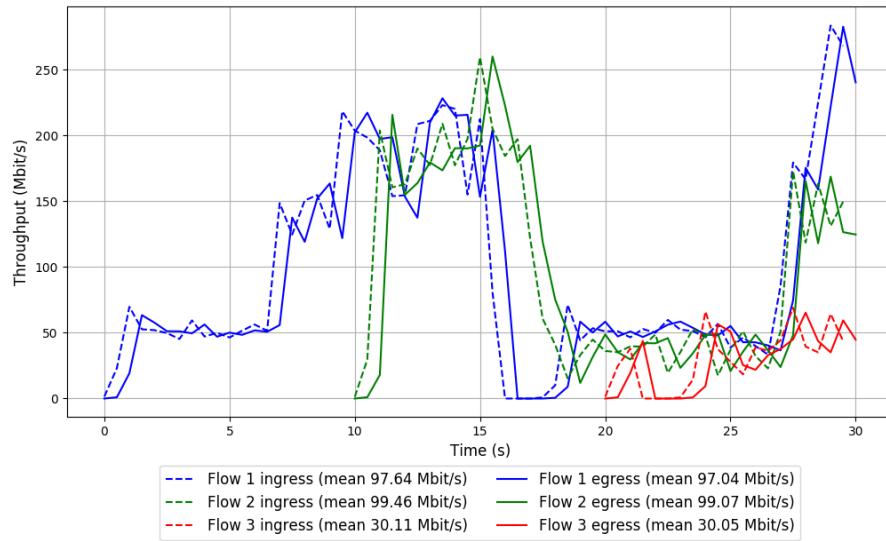


Run 5: Statistics of Copa

```
Start at: 2018-06-07 18:13:08
End at: 2018-06-07 18:13:38
Local clock offset: -0.113 ms
Remote clock offset: 0.309 ms

# Below is generated by plot.py at 2018-06-07 20:49:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 172.85 Mbit/s
95th percentile per-packet one-way delay: 54.621 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 97.04 Mbit/s
95th percentile per-packet one-way delay: 54.005 ms
Loss rate: 0.96%
-- Flow 2:
Average throughput: 99.07 Mbit/s
95th percentile per-packet one-way delay: 56.545 ms
Loss rate: 0.89%
-- Flow 3:
Average throughput: 30.05 Mbit/s
95th percentile per-packet one-way delay: 54.105 ms
Loss rate: 1.24%
```

Run 5: Report of Copa — Data Link

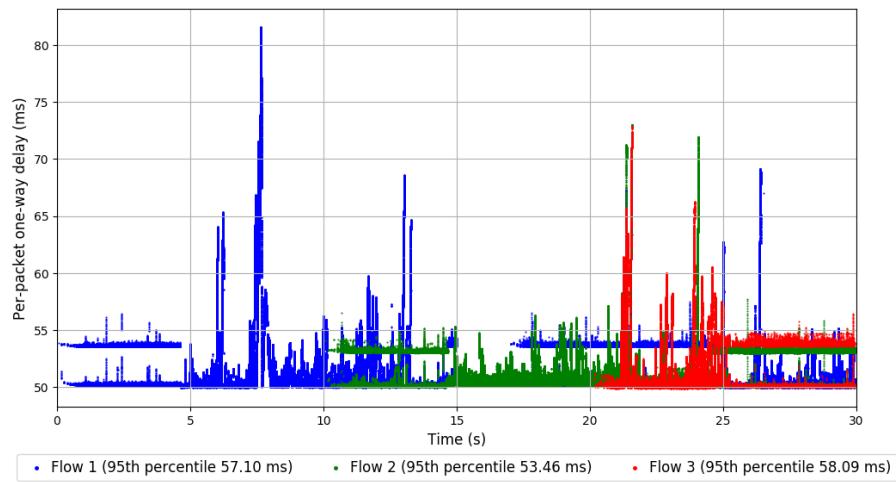
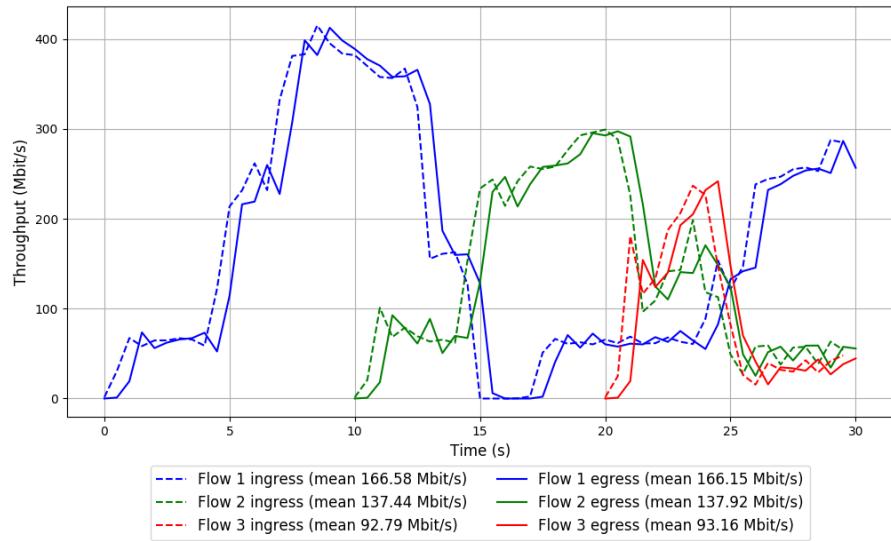


Run 6: Statistics of Copa

```
Start at: 2018-06-07 18:35:51
End at: 2018-06-07 18:36:21
Local clock offset: -0.07 ms
Remote clock offset: 0.371 ms

# Below is generated by plot.py at 2018-06-07 20:49:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 288.62 Mbit/s
95th percentile per-packet one-way delay: 55.804 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 166.15 Mbit/s
95th percentile per-packet one-way delay: 57.103 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 137.92 Mbit/s
95th percentile per-packet one-way delay: 53.462 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 93.16 Mbit/s
95th percentile per-packet one-way delay: 58.087 ms
Loss rate: 0.59%
```

Run 6: Report of Copa — Data Link

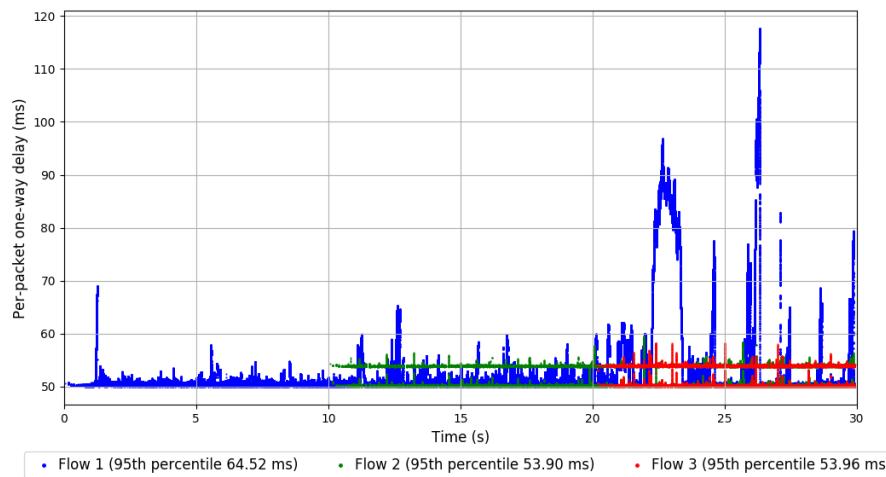
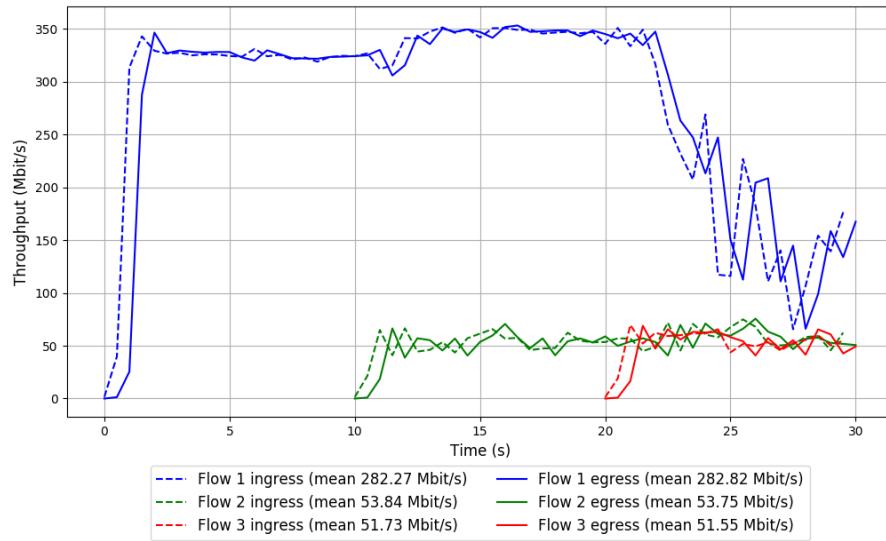


Run 7: Statistics of Copa

```
Start at: 2018-06-07 18:59:00
End at: 2018-06-07 18:59:30
Local clock offset: 0.084 ms
Remote clock offset: -0.155 ms

# Below is generated by plot.py at 2018-06-07 20:56:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 335.56 Mbit/s
95th percentile per-packet one-way delay: 61.363 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 282.82 Mbit/s
95th percentile per-packet one-way delay: 64.524 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 53.75 Mbit/s
95th percentile per-packet one-way delay: 53.902 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 51.55 Mbit/s
95th percentile per-packet one-way delay: 53.958 ms
Loss rate: 1.31%
```

## Run 7: Report of Copa — Data Link

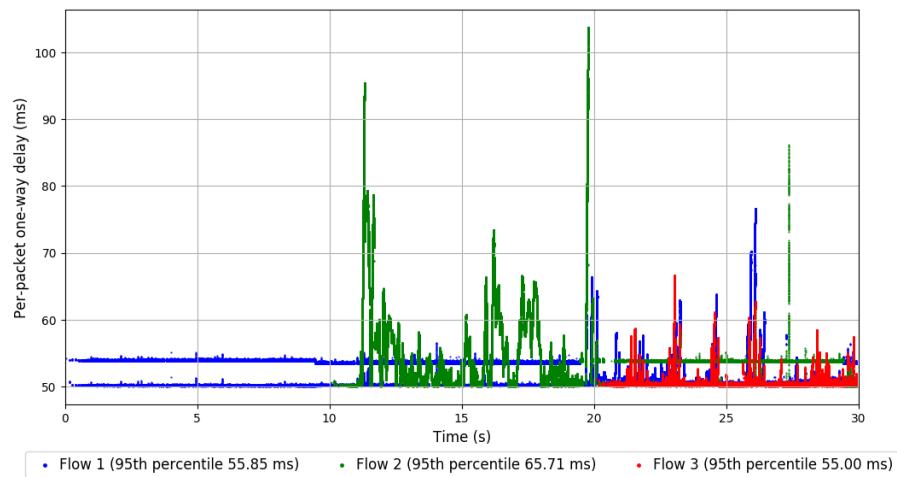
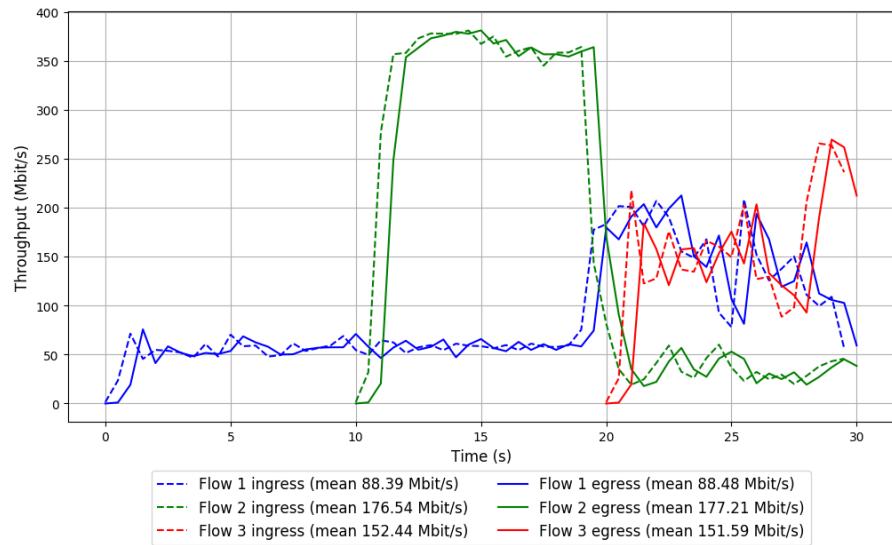


Run 8: Statistics of Copa

```
Start at: 2018-06-07 19:22:06
End at: 2018-06-07 19:22:36
Local clock offset: 0.175 ms
Remote clock offset: -0.307 ms

# Below is generated by plot.py at 2018-06-07 20:56:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 256.36 Mbit/s
95th percentile per-packet one-way delay: 62.353 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 88.48 Mbit/s
95th percentile per-packet one-way delay: 55.846 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 177.21 Mbit/s
95th percentile per-packet one-way delay: 65.708 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 151.59 Mbit/s
95th percentile per-packet one-way delay: 54.997 ms
Loss rate: 1.57%
```

## Run 8: Report of Copa — Data Link

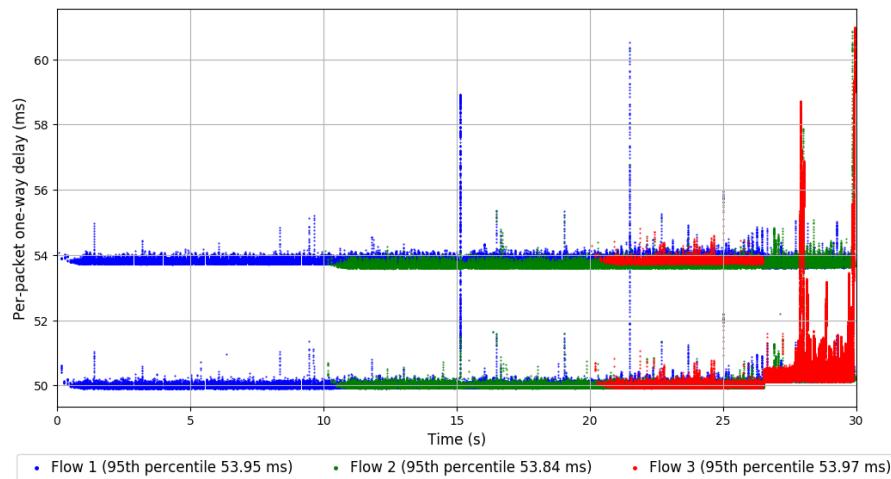
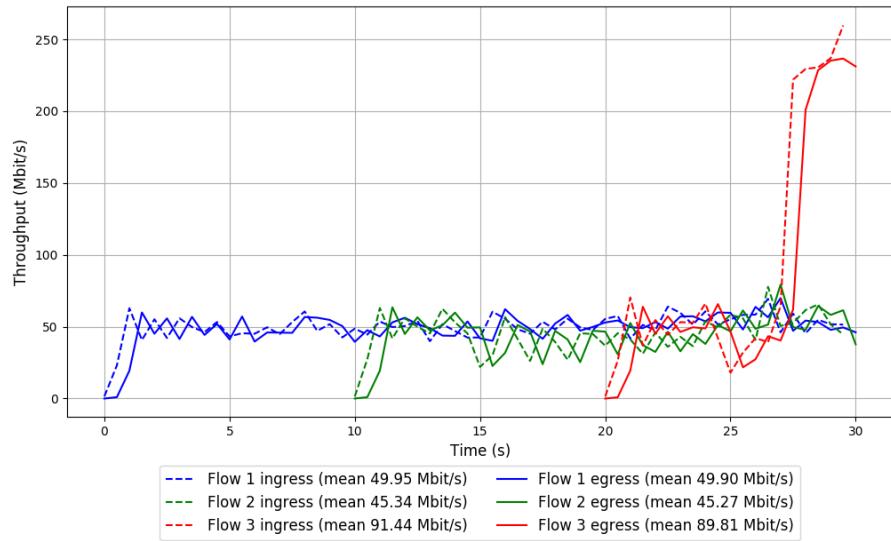


Run 9: Statistics of Copa

```
Start at: 2018-06-07 19:44:29
End at: 2018-06-07 19:44:59
Local clock offset: 0.163 ms
Remote clock offset: -0.184 ms

# Below is generated by plot.py at 2018-06-07 20:56:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 109.58 Mbit/s
95th percentile per-packet one-way delay: 53.925 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 49.90 Mbit/s
95th percentile per-packet one-way delay: 53.945 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 45.27 Mbit/s
95th percentile per-packet one-way delay: 53.836 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 89.81 Mbit/s
95th percentile per-packet one-way delay: 53.970 ms
Loss rate: 2.81%
```

Run 9: Report of Copa — Data Link

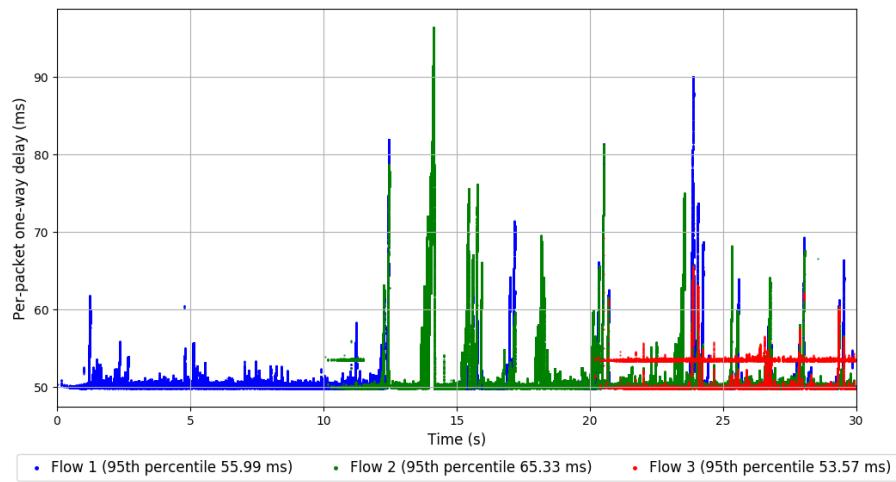
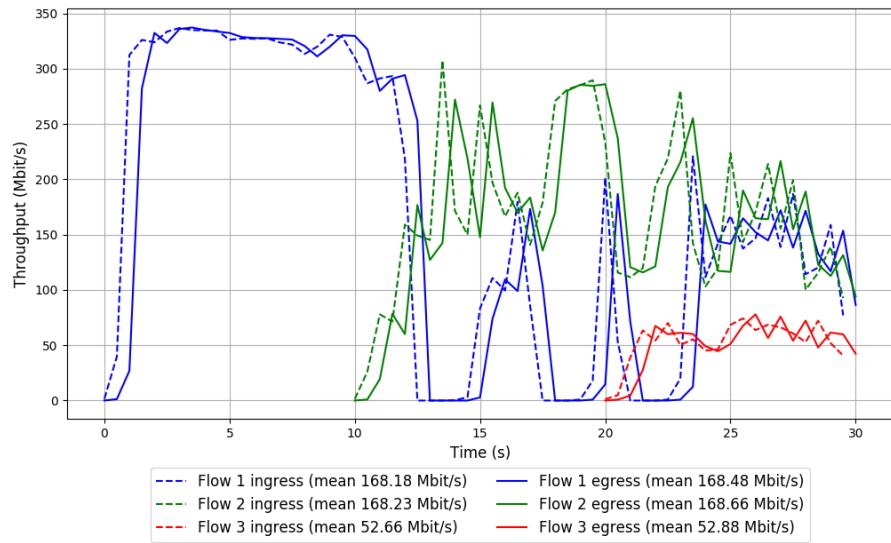


Run 10: Statistics of Copa

```
Start at: 2018-06-07 20:07:04
End at: 2018-06-07 20:07:34
Local clock offset: -0.415 ms
Remote clock offset: -0.3 ms

# Below is generated by plot.py at 2018-06-07 20:56:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 297.96 Mbit/s
95th percentile per-packet one-way delay: 60.340 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 168.48 Mbit/s
95th percentile per-packet one-way delay: 55.992 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 168.66 Mbit/s
95th percentile per-packet one-way delay: 65.327 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 52.88 Mbit/s
95th percentile per-packet one-way delay: 53.572 ms
Loss rate: 0.64%
```

## Run 10: Report of Copa — Data Link

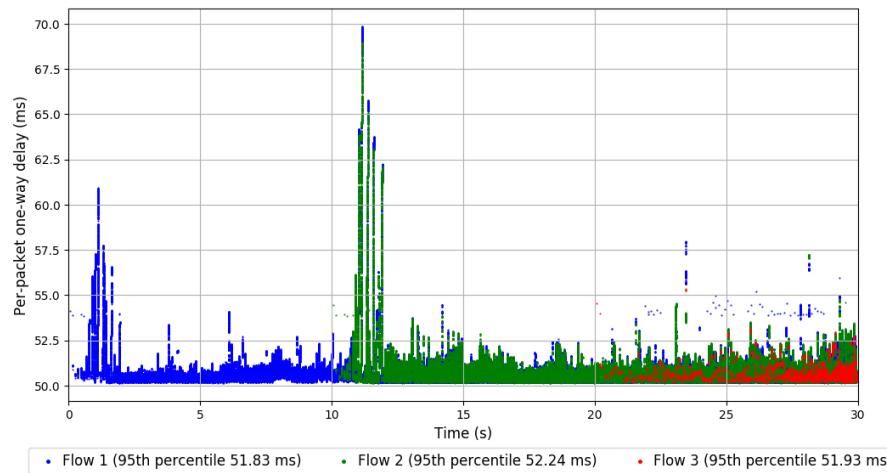
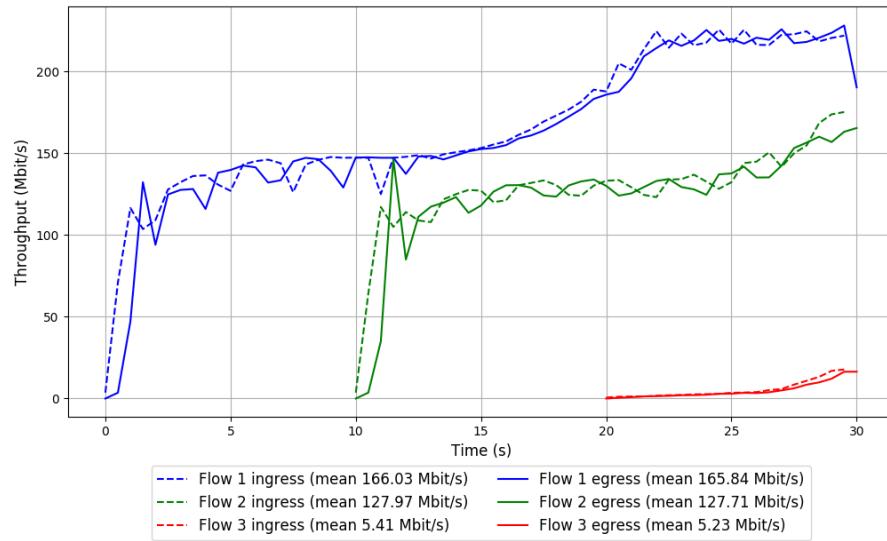


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2018-06-07 16:32:54
End at: 2018-06-07 16:33:24
Local clock offset: 0.189 ms
Remote clock offset: -0.775 ms

# Below is generated by plot.py at 2018-06-07 20:56:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 252.47 Mbit/s
95th percentile per-packet one-way delay: 51.982 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 165.84 Mbit/s
95th percentile per-packet one-way delay: 51.825 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 127.71 Mbit/s
95th percentile per-packet one-way delay: 52.243 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 5.23 Mbit/s
95th percentile per-packet one-way delay: 51.927 ms
Loss rate: 4.19%
```

Run 1: Report of TCP Cubic — Data Link

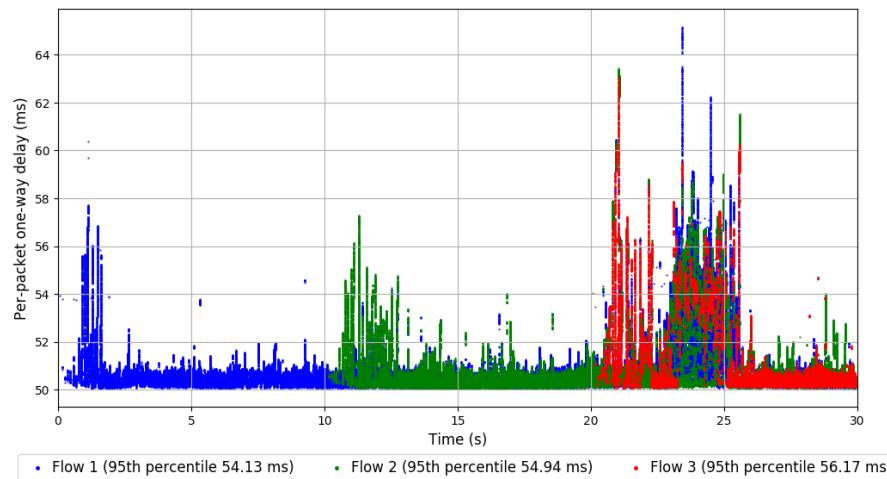
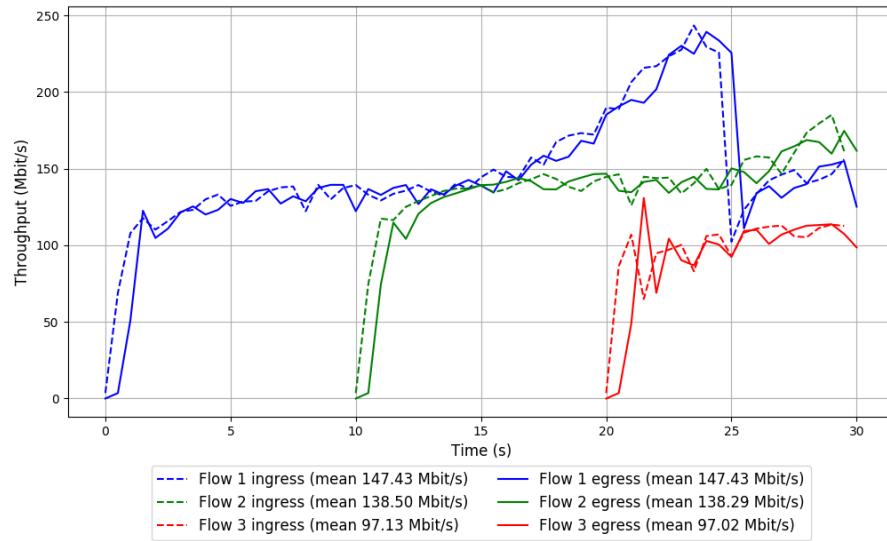


Run 2: Statistics of TCP Cubic

```
Start at: 2018-06-07 16:55:38
End at: 2018-06-07 16:56:08
Local clock offset: -0.01 ms
Remote clock offset: -0.605 ms

# Below is generated by plot.py at 2018-06-07 20:56:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 271.31 Mbit/s
95th percentile per-packet one-way delay: 54.839 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 147.43 Mbit/s
95th percentile per-packet one-way delay: 54.127 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 138.29 Mbit/s
95th percentile per-packet one-way delay: 54.937 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 97.02 Mbit/s
95th percentile per-packet one-way delay: 56.171 ms
Loss rate: 1.19%
```

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

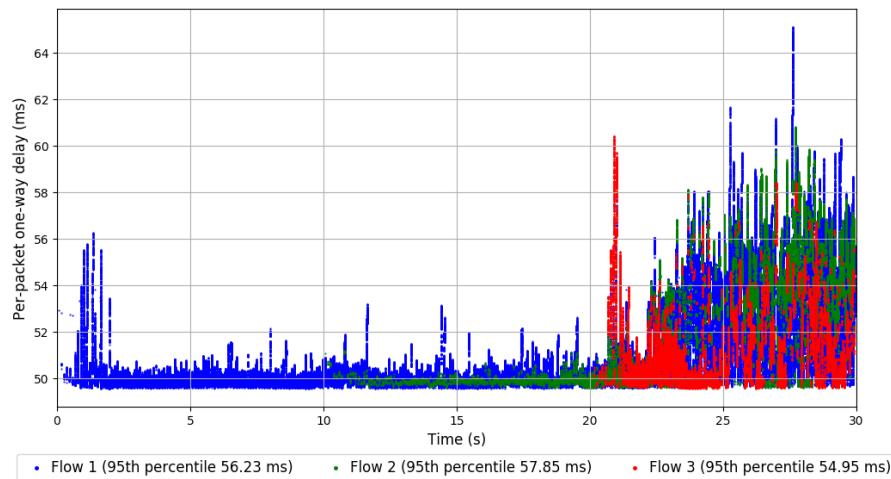
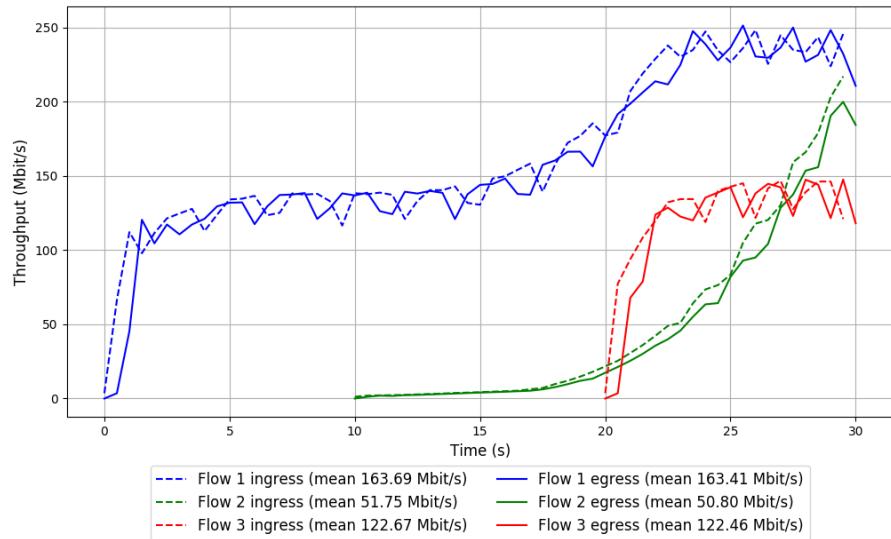


```
Run 3: Statistics of TCP Cubic
```

```
Start at: 2018-06-07 17:18:02
End at: 2018-06-07 17:18:32
Local clock offset: -0.099 ms
Remote clock offset: 0.389 ms

# Below is generated by plot.py at 2018-06-07 20:56:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 237.54 Mbit/s
95th percentile per-packet one-way delay: 56.680 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 163.41 Mbit/s
95th percentile per-packet one-way delay: 56.229 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 50.80 Mbit/s
95th percentile per-packet one-way delay: 57.850 ms
Loss rate: 2.34%
-- Flow 3:
Average throughput: 122.46 Mbit/s
95th percentile per-packet one-way delay: 54.951 ms
Loss rate: 1.21%
```

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

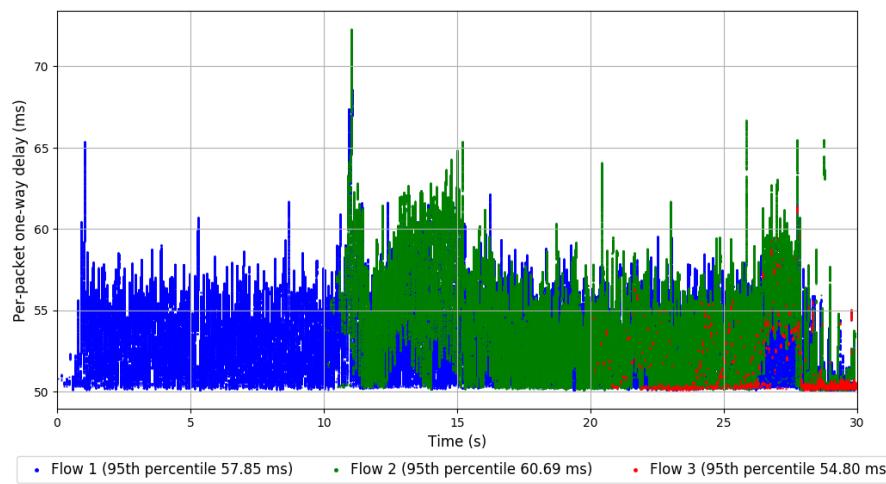
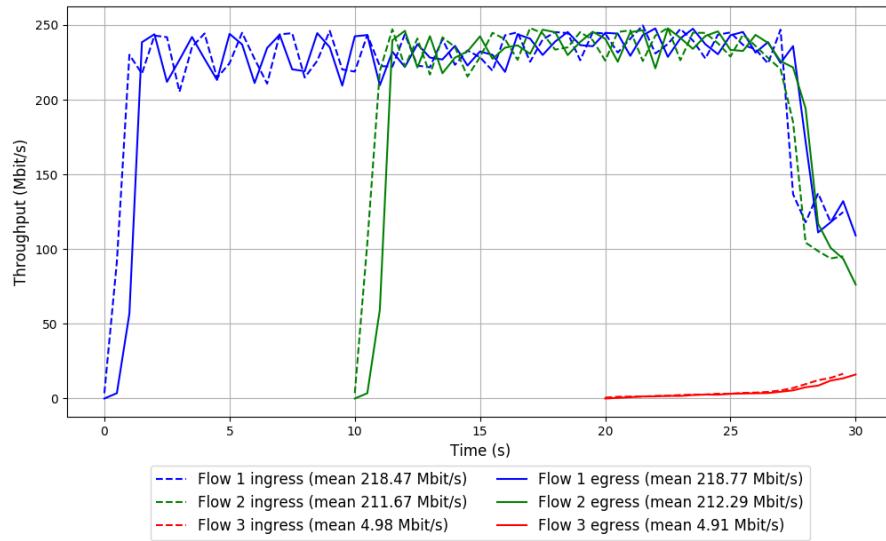


Run 4: Statistics of TCP Cubic

```
Start at: 2018-06-07 17:41:07
End at: 2018-06-07 17:41:37
Local clock offset: 0.064 ms
Remote clock offset: 0.189 ms

# Below is generated by plot.py at 2018-06-07 20:56:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 361.48 Mbit/s
95th percentile per-packet one-way delay: 59.403 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 218.77 Mbit/s
95th percentile per-packet one-way delay: 57.855 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 212.29 Mbit/s
95th percentile per-packet one-way delay: 60.687 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 4.91 Mbit/s
95th percentile per-packet one-way delay: 54.795 ms
Loss rate: 2.42%
```

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

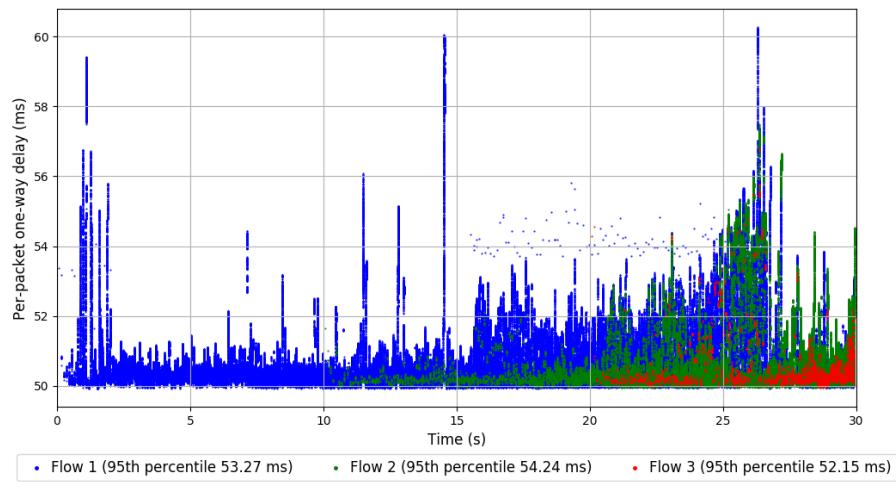
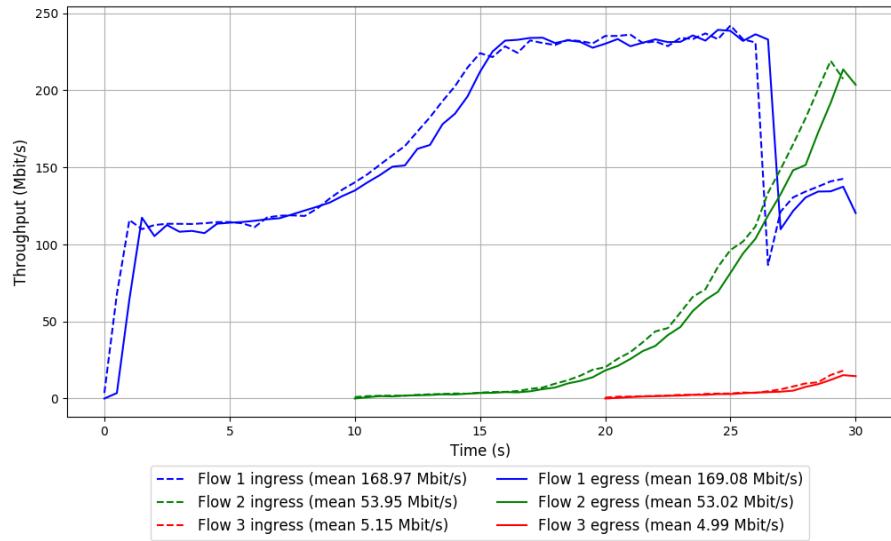


Run 5: Statistics of TCP Cubic

```
Start at: 2018-06-07 18:04:09
End at: 2018-06-07 18:04:39
Local clock offset: 0.059 ms
Remote clock offset: 0.455 ms

# Below is generated by plot.py at 2018-06-07 20:56:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 205.91 Mbit/s
95th percentile per-packet one-way delay: 53.533 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 169.08 Mbit/s
95th percentile per-packet one-way delay: 53.265 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 53.02 Mbit/s
95th percentile per-packet one-way delay: 54.243 ms
Loss rate: 2.23%
-- Flow 3:
Average throughput: 4.99 Mbit/s
95th percentile per-packet one-way delay: 52.153 ms
Loss rate: 4.12%
```

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

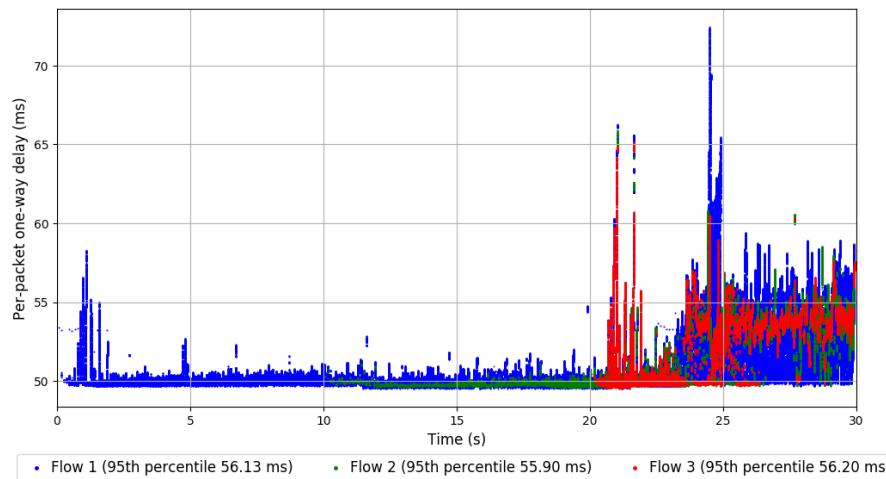
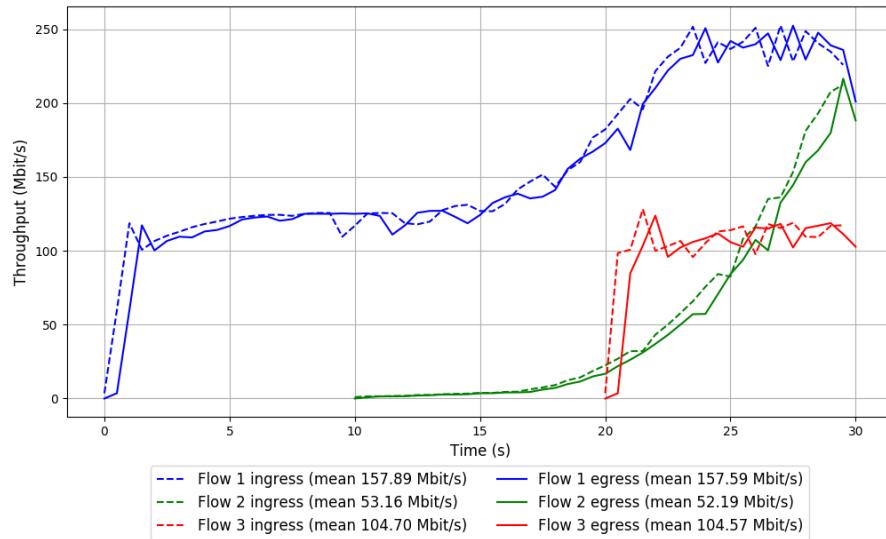


Run 6: Statistics of TCP Cubic

```
Start at: 2018-06-07 18:26:44
End at: 2018-06-07 18:27:14
Local clock offset: -0.528 ms
Remote clock offset: 0.576 ms

# Below is generated by plot.py at 2018-06-07 20:56:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 226.70 Mbit/s
95th percentile per-packet one-way delay: 56.122 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 157.59 Mbit/s
95th percentile per-packet one-way delay: 56.128 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 52.19 Mbit/s
95th percentile per-packet one-way delay: 55.901 ms
Loss rate: 2.33%
-- Flow 3:
Average throughput: 104.57 Mbit/s
95th percentile per-packet one-way delay: 56.198 ms
Loss rate: 1.13%
```

Run 6: Report of TCP Cubic — Data Link

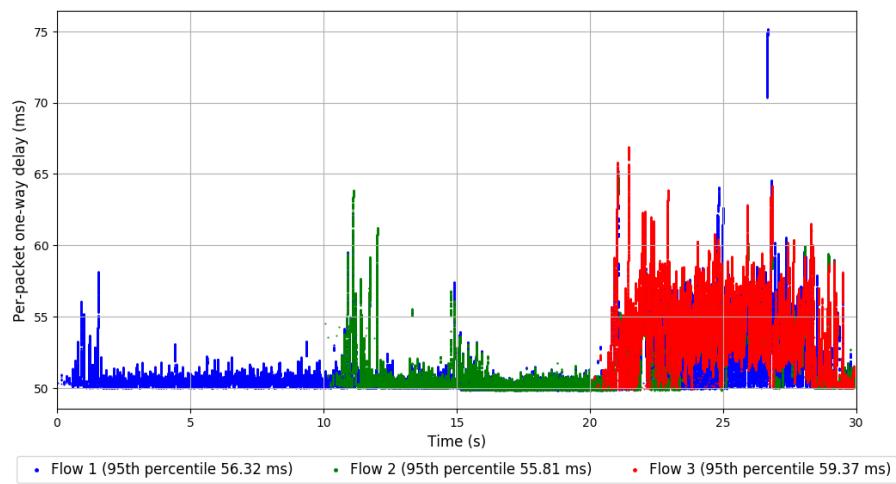
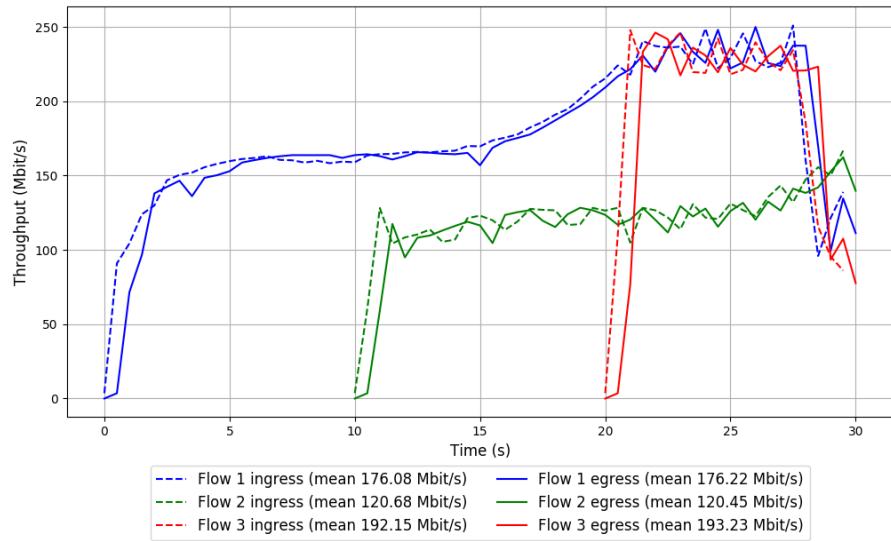


Run 7: Statistics of TCP Cubic

```
Start at: 2018-06-07 18:49:40
End at: 2018-06-07 18:50:10
Local clock offset: -0.359 ms
Remote clock offset: -0.3 ms

# Below is generated by plot.py at 2018-06-07 20:58:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 319.84 Mbit/s
95th percentile per-packet one-way delay: 57.489 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 176.22 Mbit/s
95th percentile per-packet one-way delay: 56.320 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 120.45 Mbit/s
95th percentile per-packet one-way delay: 55.806 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 193.23 Mbit/s
95th percentile per-packet one-way delay: 59.367 ms
Loss rate: 0.49%
```

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

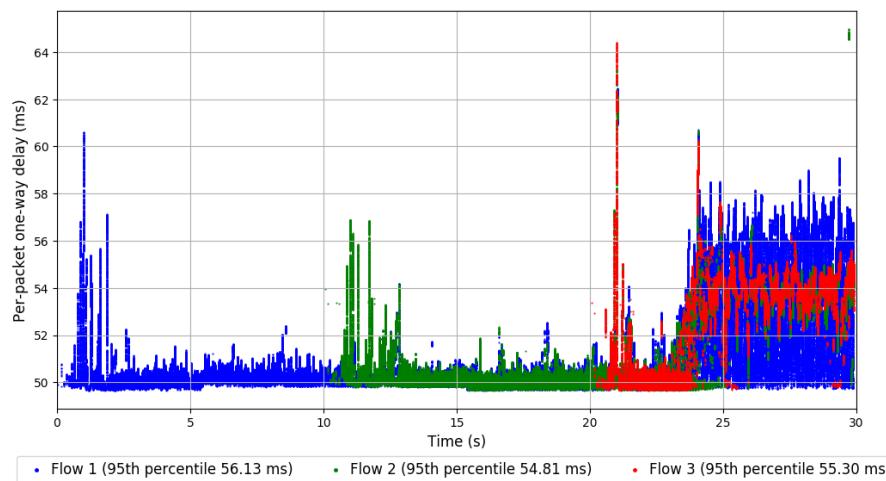
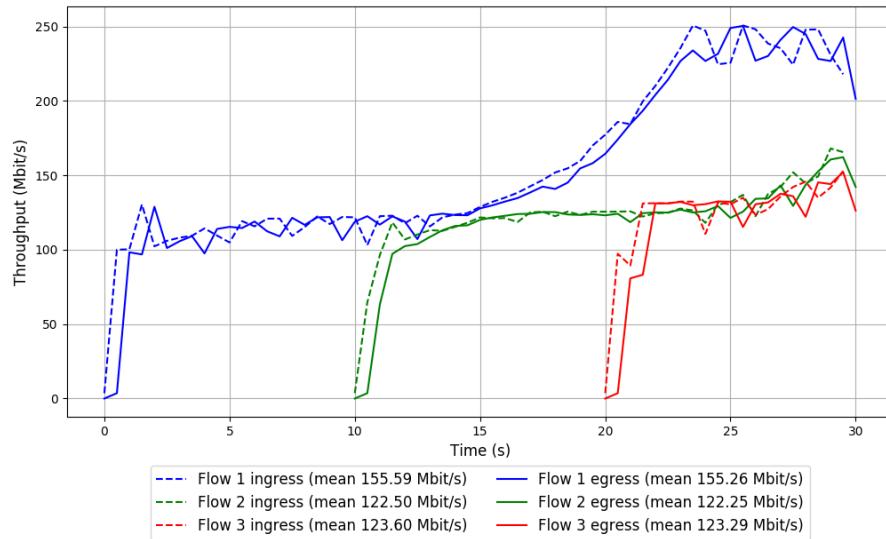


Run 8: Statistics of TCP Cubic

```
Start at: 2018-06-07 19:13:10
End at: 2018-06-07 19:13:40
Local clock offset: -0.308 ms
Remote clock offset: -0.298 ms

# Below is generated by plot.py at 2018-06-07 20:58:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 276.98 Mbit/s
95th percentile per-packet one-way delay: 55.668 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 155.26 Mbit/s
95th percentile per-packet one-way delay: 56.129 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 122.25 Mbit/s
95th percentile per-packet one-way delay: 54.813 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 123.29 Mbit/s
95th percentile per-packet one-way delay: 55.300 ms
Loss rate: 1.29%
```

Run 8: Report of TCP Cubic — Data Link

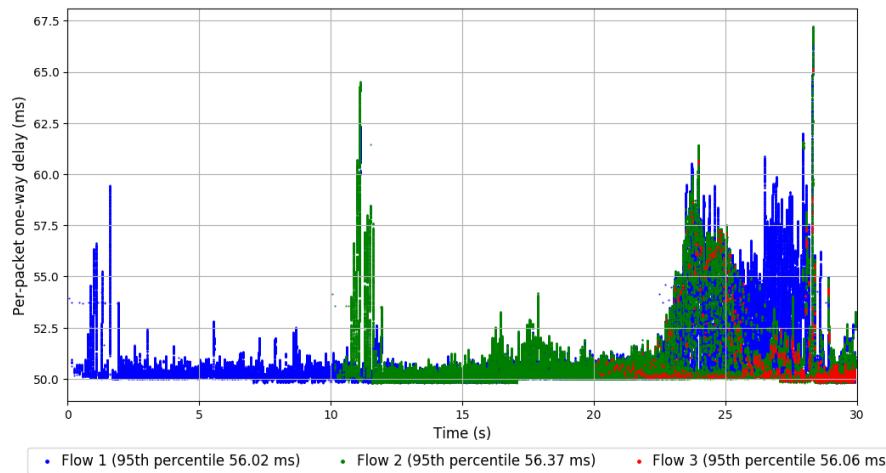
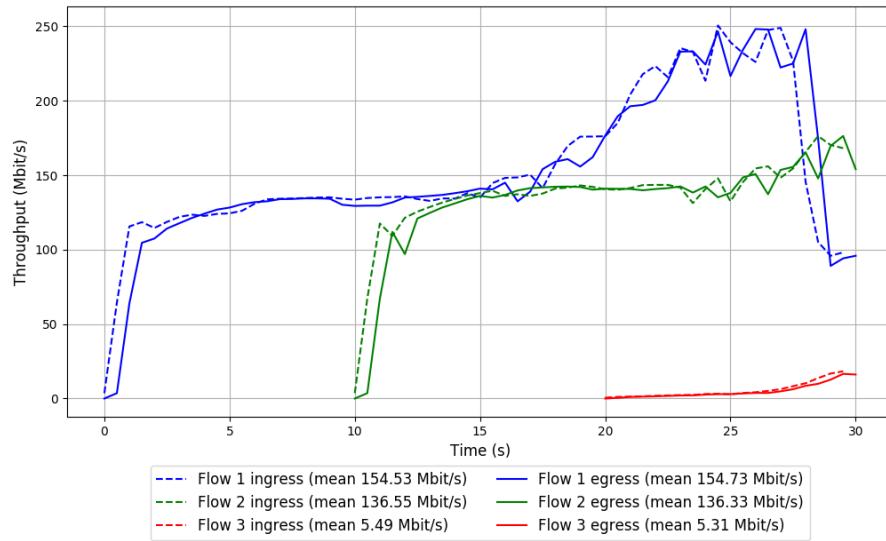


Run 9: Statistics of TCP Cubic

```
Start at: 2018-06-07 19:35:48
End at: 2018-06-07 19:36:18
Local clock offset: -0.04 ms
Remote clock offset: -0.343 ms

# Below is generated by plot.py at 2018-06-07 20:58:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 247.14 Mbit/s
95th percentile per-packet one-way delay: 56.174 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 154.73 Mbit/s
95th percentile per-packet one-way delay: 56.015 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 136.33 Mbit/s
95th percentile per-packet one-way delay: 56.373 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 5.31 Mbit/s
95th percentile per-packet one-way delay: 56.064 ms
Loss rate: 4.18%
```

Run 9: Report of TCP Cubic — Data Link

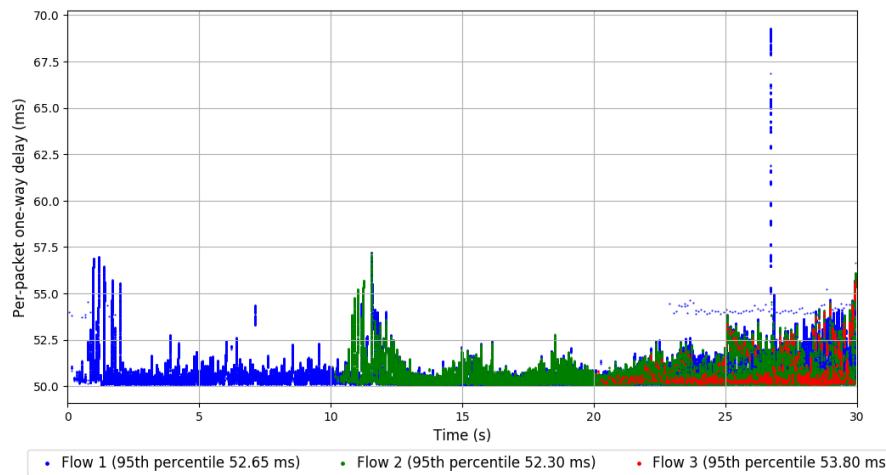
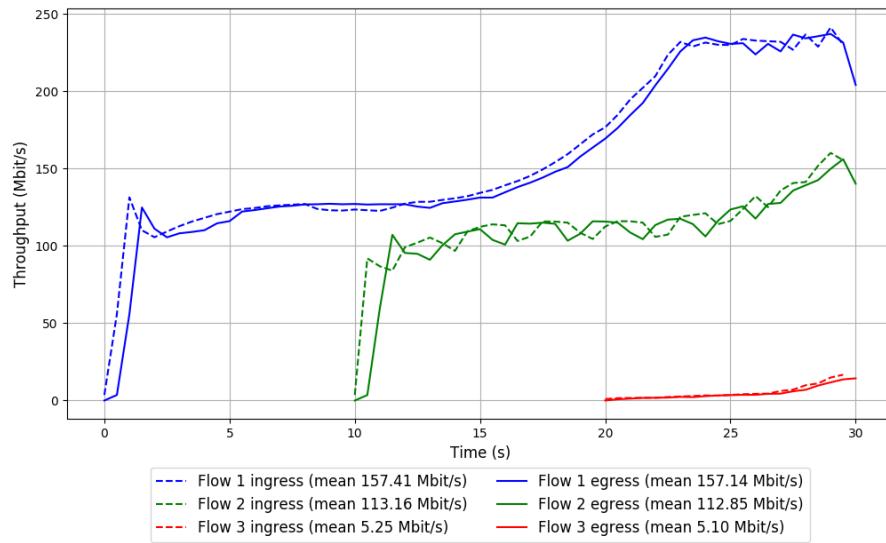


```
Run 10: Statistics of TCP Cubic
```

```
Start at: 2018-06-07 19:58:14
End at: 2018-06-07 19:58:44
Local clock offset: -0.084 ms
Remote clock offset: -0.305 ms

# Below is generated by plot.py at 2018-06-07 20:58:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 233.86 Mbit/s
95th percentile per-packet one-way delay: 52.557 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 157.14 Mbit/s
95th percentile per-packet one-way delay: 52.649 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 112.85 Mbit/s
95th percentile per-packet one-way delay: 52.297 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 5.10 Mbit/s
95th percentile per-packet one-way delay: 53.805 ms
Loss rate: 3.88%
```

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

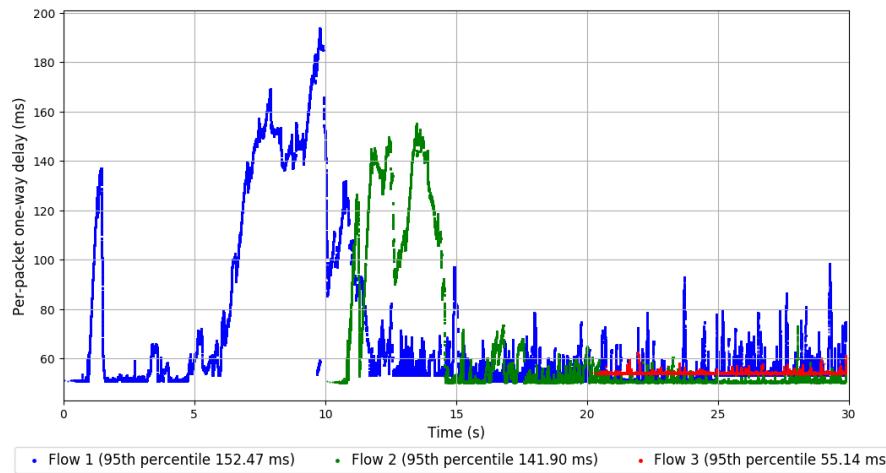
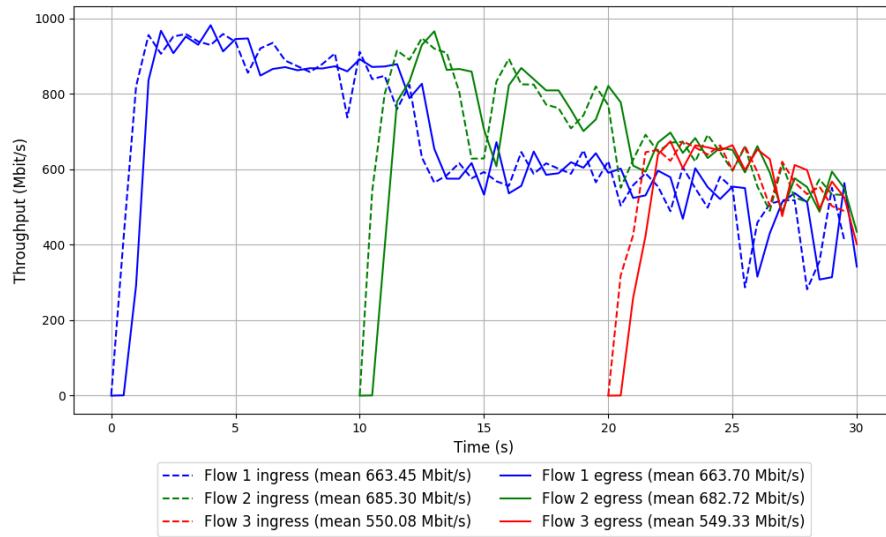


Run 1: Statistics of FillP

```
Start at: 2018-06-07 16:39:58
End at: 2018-06-07 16:40:28
Local clock offset: 0.071 ms
Remote clock offset: -0.992 ms

# Below is generated by plot.py at 2018-06-07 21:22:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1298.18 Mbit/s
95th percentile per-packet one-way delay: 147.046 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 663.70 Mbit/s
95th percentile per-packet one-way delay: 152.469 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 682.72 Mbit/s
95th percentile per-packet one-way delay: 141.899 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 549.33 Mbit/s
95th percentile per-packet one-way delay: 55.138 ms
Loss rate: 1.21%
```

## Run 1: Report of FillP — Data Link

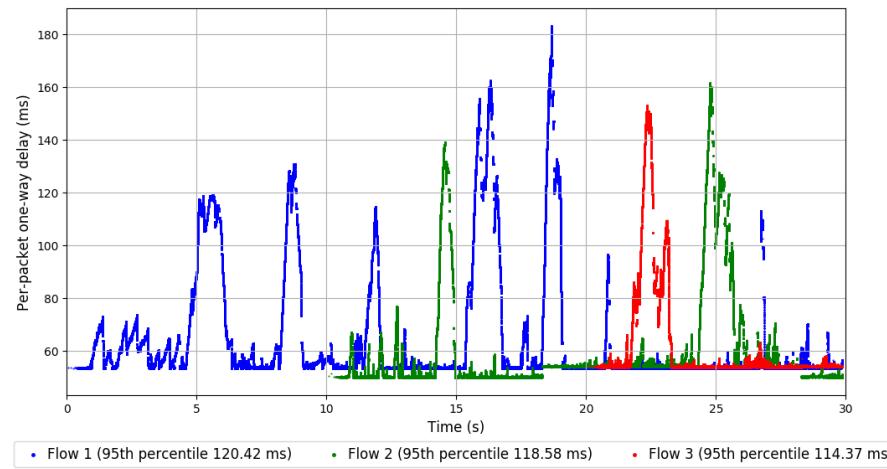
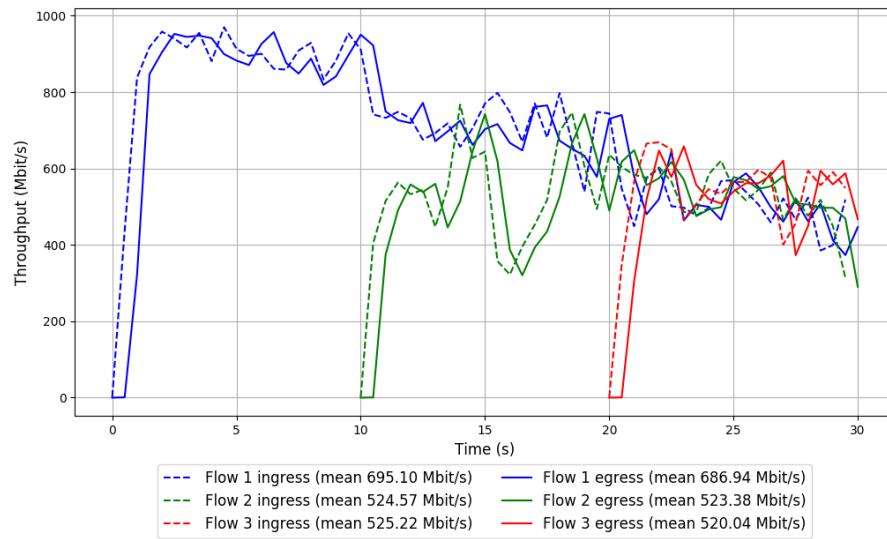


Run 2: Statistics of FillP

```
Start at: 2018-06-07 17:02:24
End at: 2018-06-07 17:02:54
Local clock offset: 0.028 ms
Remote clock offset: -0.23 ms

# Below is generated by plot.py at 2018-06-07 21:22:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1205.25 Mbit/s
95th percentile per-packet one-way delay: 118.906 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 686.94 Mbit/s
95th percentile per-packet one-way delay: 120.425 ms
Loss rate: 1.52%
-- Flow 2:
Average throughput: 523.38 Mbit/s
95th percentile per-packet one-way delay: 118.584 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 520.04 Mbit/s
95th percentile per-packet one-way delay: 114.373 ms
Loss rate: 2.05%
```

## Run 2: Report of FillP — Data Link

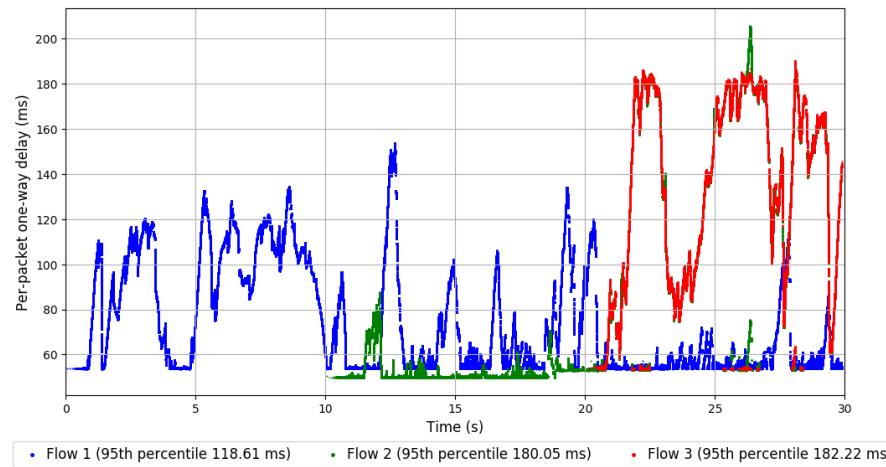
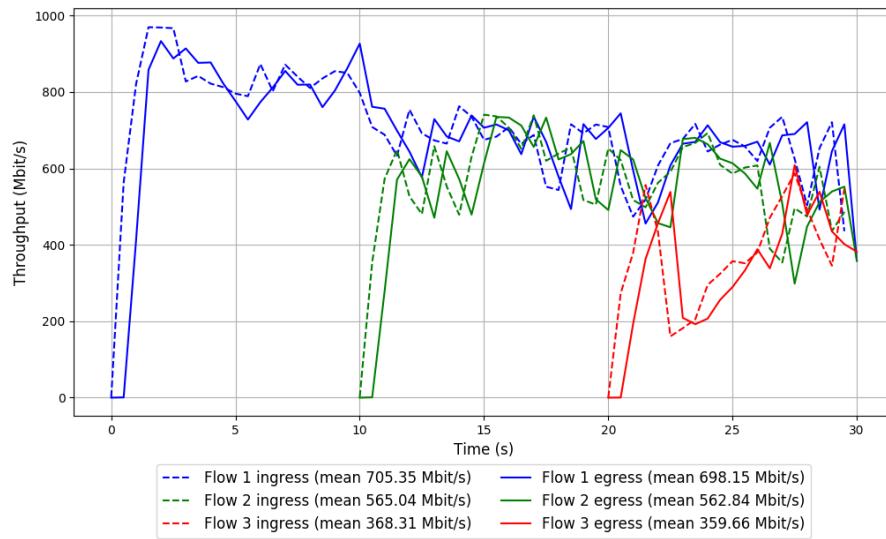


Run 3: Statistics of FillP

```
Start at: 2018-06-07 17:25:16
End at: 2018-06-07 17:25:46
Local clock offset: -0.065 ms
Remote clock offset: 0.278 ms

# Below is generated by plot.py at 2018-06-07 21:22:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1190.26 Mbit/s
95th percentile per-packet one-way delay: 176.004 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 698.15 Mbit/s
95th percentile per-packet one-way delay: 118.607 ms
Loss rate: 1.37%
-- Flow 2:
Average throughput: 562.84 Mbit/s
95th percentile per-packet one-way delay: 180.048 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 359.66 Mbit/s
95th percentile per-packet one-way delay: 182.223 ms
Loss rate: 3.37%
```

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

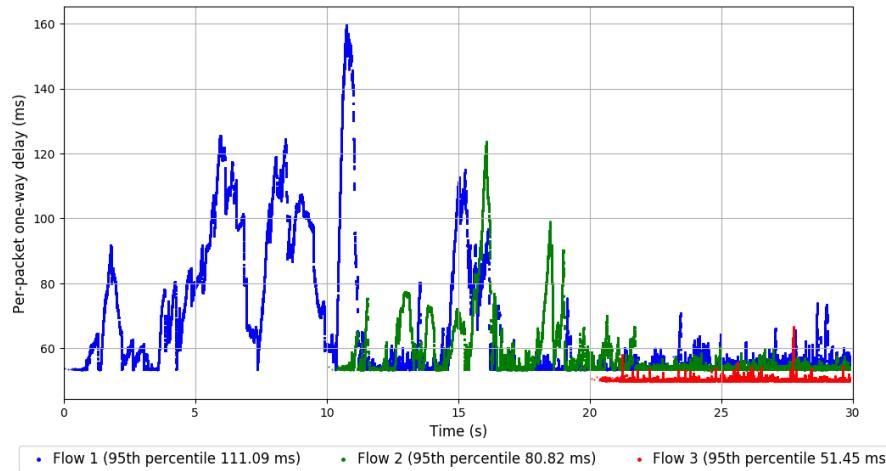
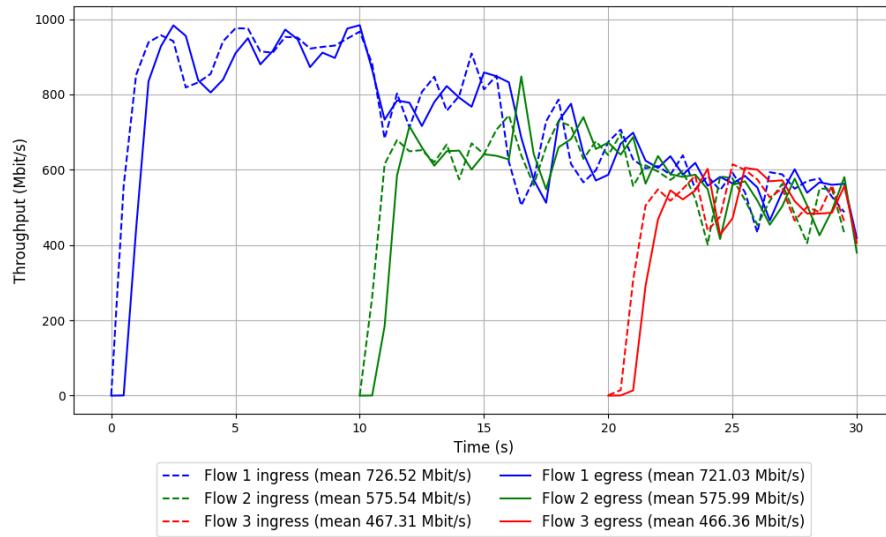


Run 4: Statistics of FillP

```
Start at: 2018-06-07 17:48:03
End at: 2018-06-07 17:48:33
Local clock offset: -0.135 ms
Remote clock offset: 0.344 ms

# Below is generated by plot.py at 2018-06-07 21:22:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1256.91 Mbit/s
95th percentile per-packet one-way delay: 106.368 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 721.03 Mbit/s
95th percentile per-packet one-way delay: 111.086 ms
Loss rate: 1.10%
-- Flow 2:
Average throughput: 575.99 Mbit/s
95th percentile per-packet one-way delay: 80.816 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 466.36 Mbit/s
95th percentile per-packet one-way delay: 51.452 ms
Loss rate: 1.22%
```

## Run 4: Report of FillP — Data Link

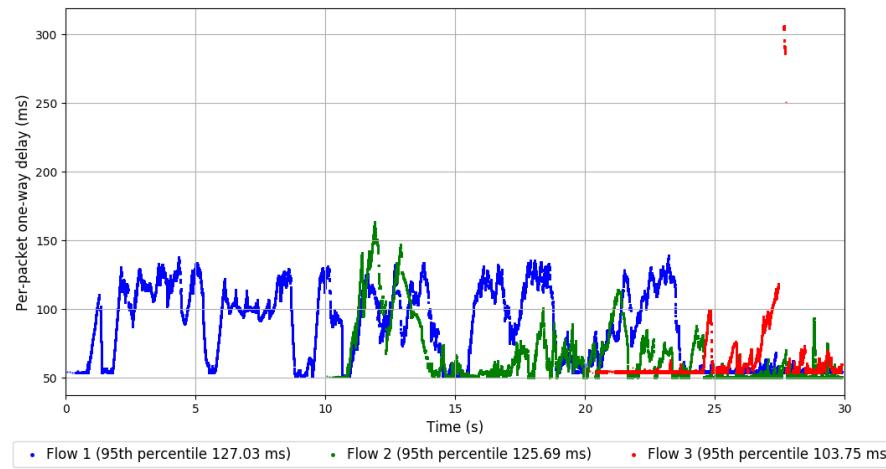
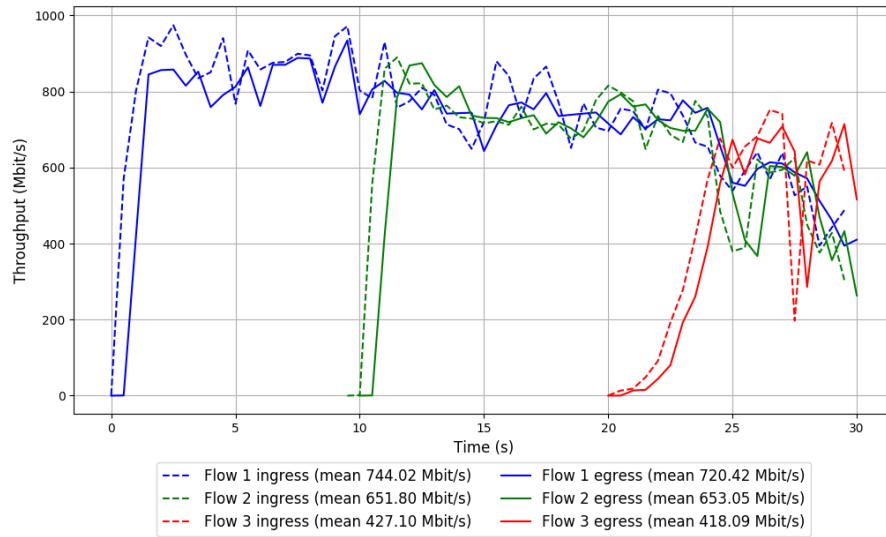


Run 5: Statistics of FillP

```
Start at: 2018-06-07 18:11:08
End at: 2018-06-07 18:11:38
Local clock offset: 0.097 ms
Remote clock offset: 0.259 ms

# Below is generated by plot.py at 2018-06-07 21:24:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1292.30 Mbit/s
95th percentile per-packet one-way delay: 126.446 ms
Loss rate: 2.43%
-- Flow 1:
Average throughput: 720.42 Mbit/s
95th percentile per-packet one-way delay: 127.031 ms
Loss rate: 3.52%
-- Flow 2:
Average throughput: 653.05 Mbit/s
95th percentile per-packet one-way delay: 125.693 ms
Loss rate: 0.32%
-- Flow 3:
Average throughput: 418.09 Mbit/s
95th percentile per-packet one-way delay: 103.754 ms
Loss rate: 3.14%
```

## Run 5: Report of FillP — Data Link

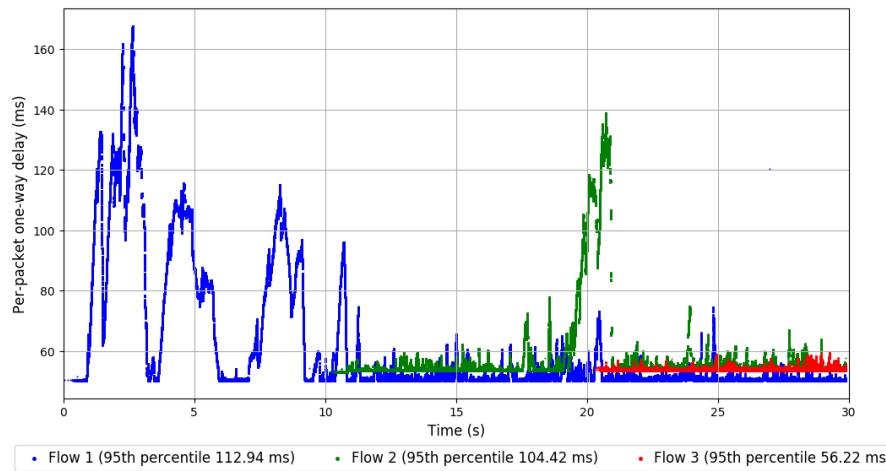
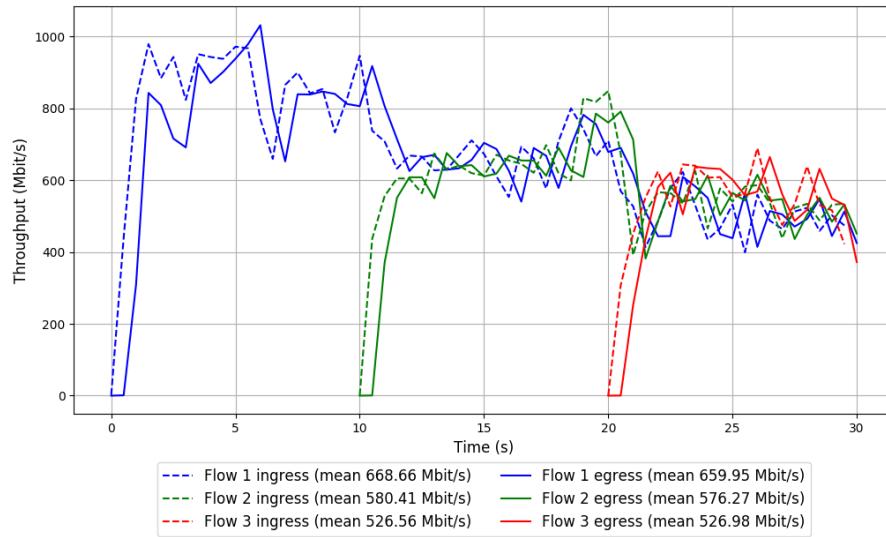


Run 6: Statistics of FillP

```
Start at: 2018-06-07 18:33:54
End at: 2018-06-07 18:34:24
Local clock offset: -0.101 ms
Remote clock offset: 0.697 ms

# Below is generated by plot.py at 2018-06-07 21:24:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1216.05 Mbit/s
95th percentile per-packet one-way delay: 108.419 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 659.95 Mbit/s
95th percentile per-packet one-way delay: 112.944 ms
Loss rate: 1.65%
-- Flow 2:
Average throughput: 576.27 Mbit/s
95th percentile per-packet one-way delay: 104.418 ms
Loss rate: 1.23%
-- Flow 3:
Average throughput: 526.98 Mbit/s
95th percentile per-packet one-way delay: 56.219 ms
Loss rate: 0.90%
```

## Run 6: Report of FillP — Data Link

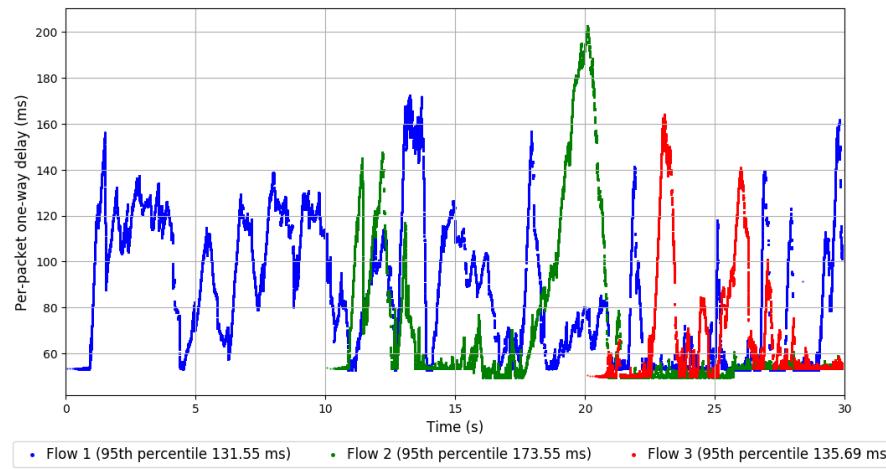
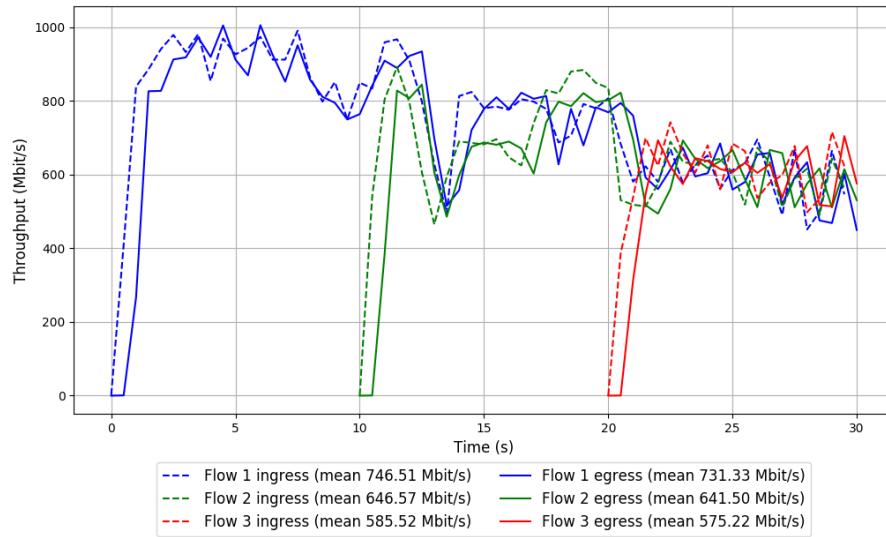


Run 7: Statistics of FillP

```
Start at: 2018-06-07 18:57:00
End at: 2018-06-07 18:57:30
Local clock offset: -0.37 ms
Remote clock offset: -0.121 ms

# Below is generated by plot.py at 2018-06-07 21:26:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1346.63 Mbit/s
95th percentile per-packet one-way delay: 139.535 ms
Loss rate: 2.08%
-- Flow 1:
Average throughput: 731.33 Mbit/s
95th percentile per-packet one-way delay: 131.546 ms
Loss rate: 2.35%
-- Flow 2:
Average throughput: 641.50 Mbit/s
95th percentile per-packet one-way delay: 173.551 ms
Loss rate: 1.31%
-- Flow 3:
Average throughput: 575.22 Mbit/s
95th percentile per-packet one-way delay: 135.695 ms
Loss rate: 2.75%
```

## Run 7: Report of FillP — Data Link

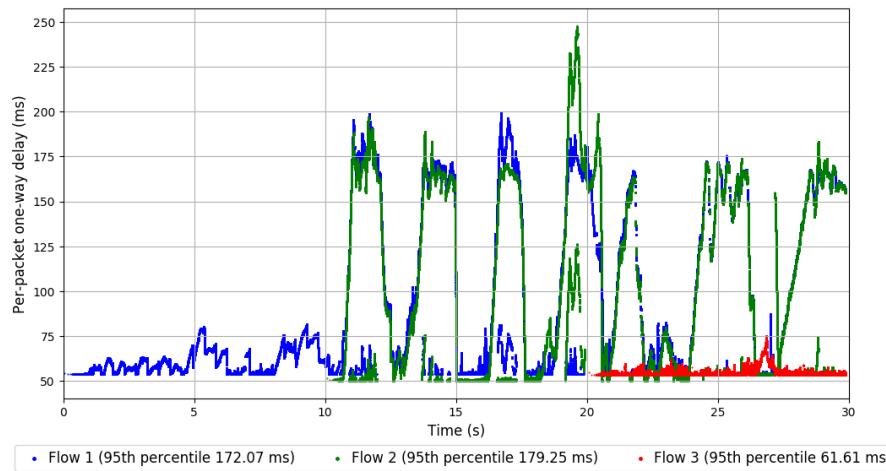
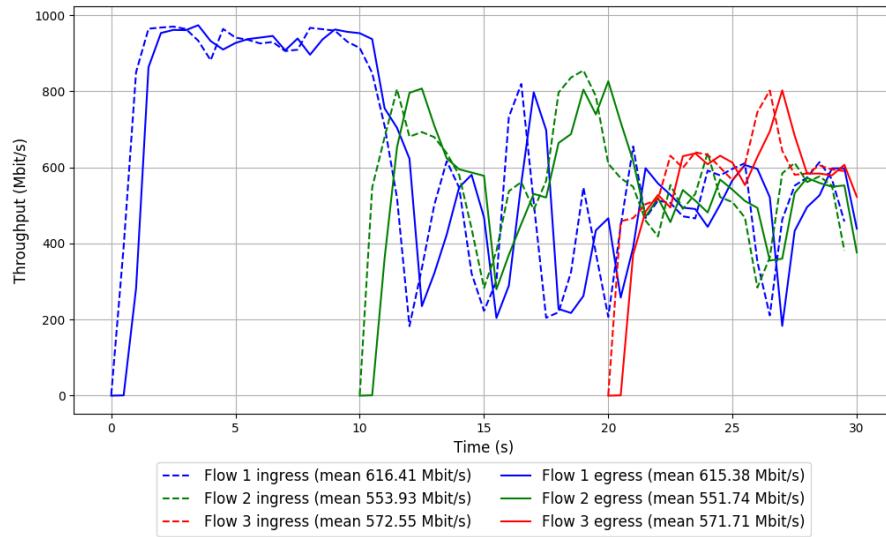


Run 8: Statistics of FillP

```
Start at: 2018-06-07 19:20:11
End at: 2018-06-07 19:20:41
Local clock offset: -0.005 ms
Remote clock offset: -0.511 ms

# Below is generated by plot.py at 2018-06-07 21:26:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1170.21 Mbit/s
95th percentile per-packet one-way delay: 171.691 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 615.38 Mbit/s
95th percentile per-packet one-way delay: 172.074 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 551.74 Mbit/s
95th percentile per-packet one-way delay: 179.247 ms
Loss rate: 0.89%
-- Flow 3:
Average throughput: 571.71 Mbit/s
95th percentile per-packet one-way delay: 61.610 ms
Loss rate: 1.18%
```

## Run 8: Report of FillP — Data Link

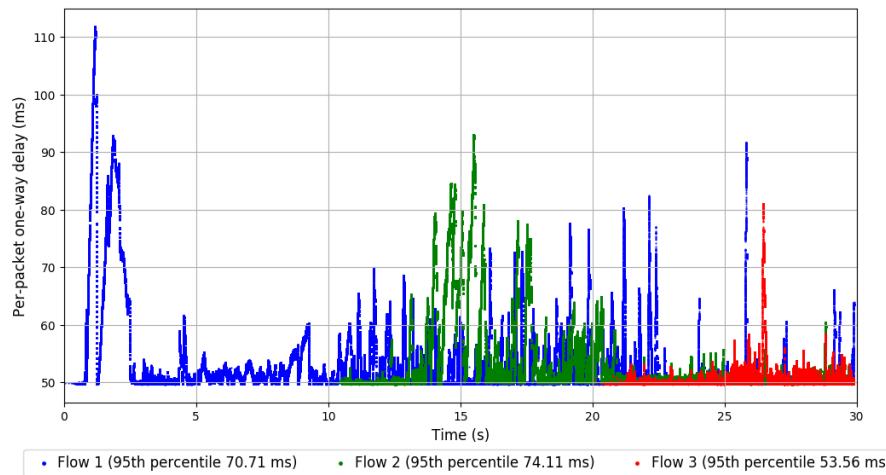
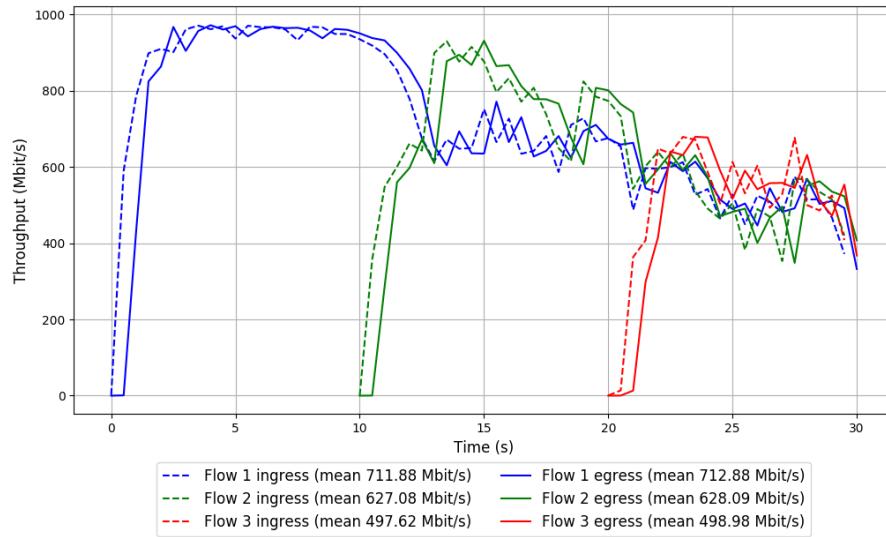


Run 9: Statistics of FillP

```
Start at: 2018-06-07 19:42:30
End at: 2018-06-07 19:43:00
Local clock offset: -0.13 ms
Remote clock offset: -0.243 ms

# Below is generated by plot.py at 2018-06-07 21:48:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1293.64 Mbit/s
95th percentile per-packet one-way delay: 71.306 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 712.88 Mbit/s
95th percentile per-packet one-way delay: 70.707 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 628.09 Mbit/s
95th percentile per-packet one-way delay: 74.115 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 498.98 Mbit/s
95th percentile per-packet one-way delay: 53.562 ms
Loss rate: 0.83%
```

## Run 9: Report of FillP — Data Link

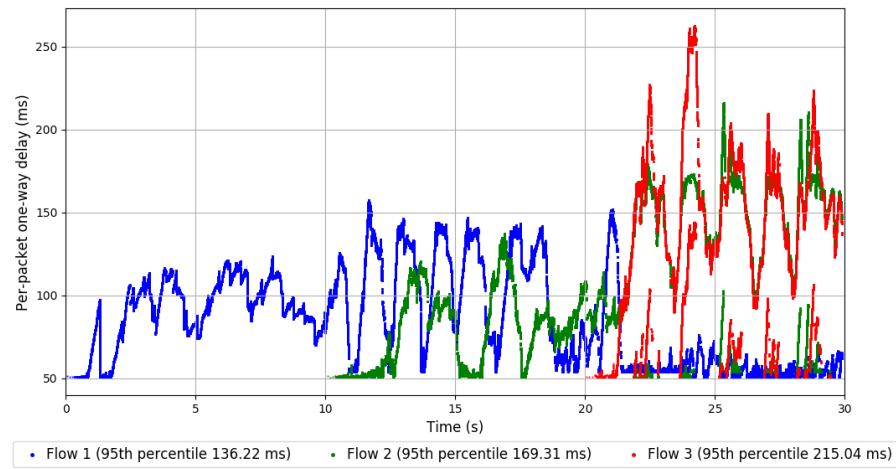
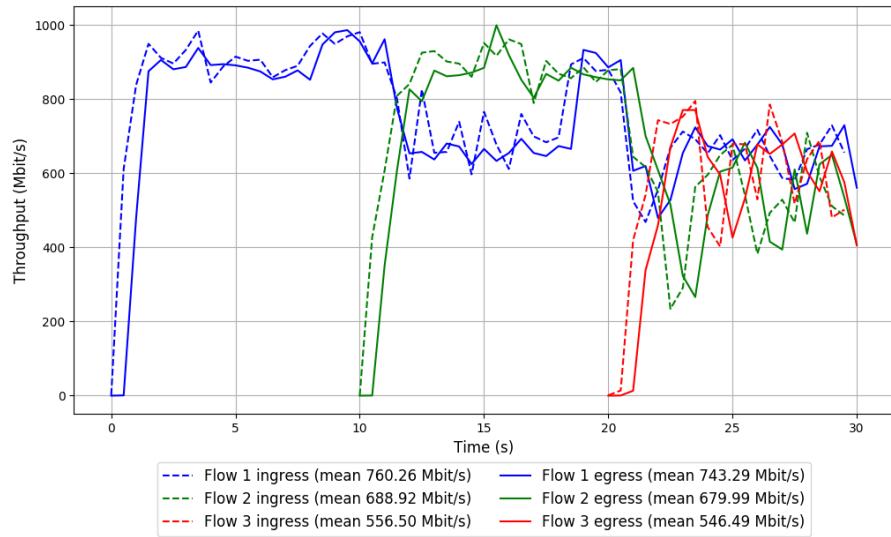


Run 10: Statistics of FillP

```
Start at: 2018-06-07 20:05:01
End at: 2018-06-07 20:05:31
Local clock offset: 0.051 ms
Remote clock offset: -0.061 ms

# Below is generated by plot.py at 2018-06-07 21:49:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1374.61 Mbit/s
95th percentile per-packet one-way delay: 169.200 ms
Loss rate: 2.35%
-- Flow 1:
Average throughput: 743.29 Mbit/s
95th percentile per-packet one-way delay: 136.217 ms
Loss rate: 2.56%
-- Flow 2:
Average throughput: 679.99 Mbit/s
95th percentile per-packet one-way delay: 169.311 ms
Loss rate: 1.80%
-- Flow 3:
Average throughput: 546.49 Mbit/s
95th percentile per-packet one-way delay: 215.040 ms
Loss rate: 2.80%
```

Run 10: Report of FillP — Data Link

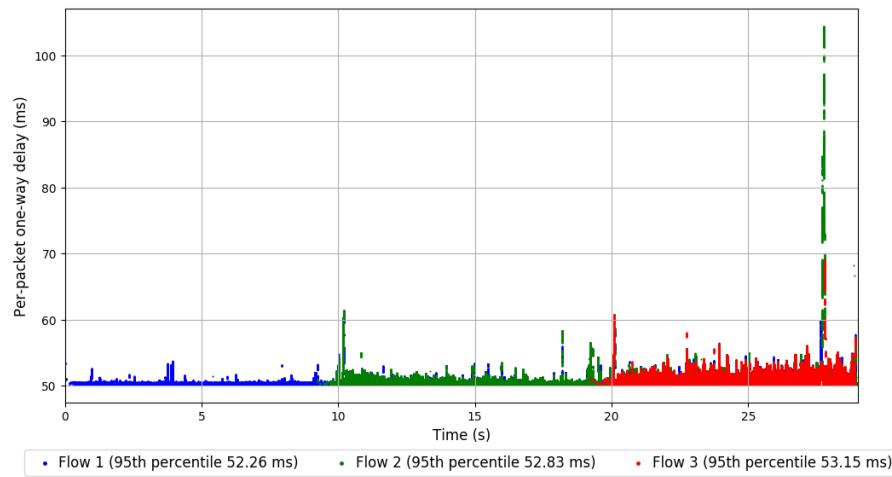
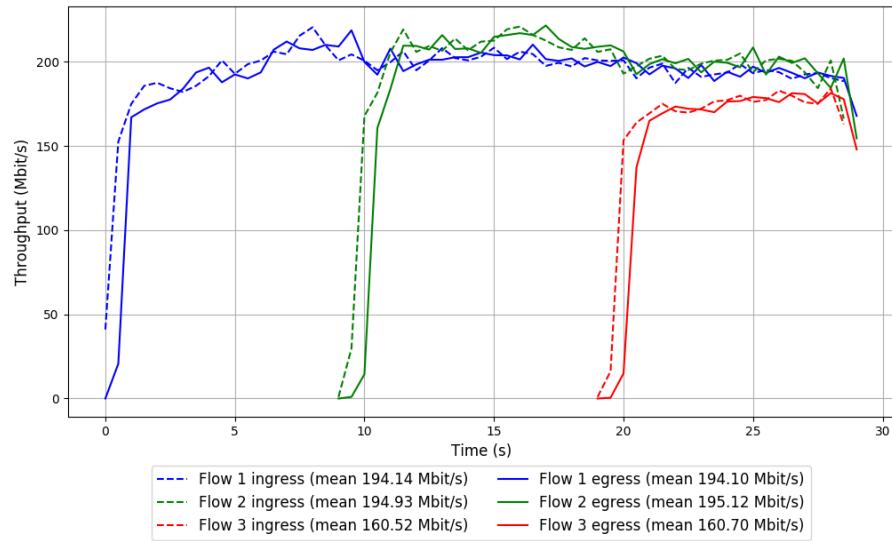


Run 1: Statistics of Indigo

```
Start at: 2018-06-07 16:49:04
End at: 2018-06-07 16:49:34
Local clock offset: 0.053 ms
Remote clock offset: -1.062 ms

# Below is generated by plot.py at 2018-06-07 21:49:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 380.92 Mbit/s
95th percentile per-packet one-way delay: 52.668 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 194.10 Mbit/s
95th percentile per-packet one-way delay: 52.261 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 195.12 Mbit/s
95th percentile per-packet one-way delay: 52.834 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 160.70 Mbit/s
95th percentile per-packet one-way delay: 53.148 ms
Loss rate: 1.07%
```

Run 1: Report of Indigo — Data Link

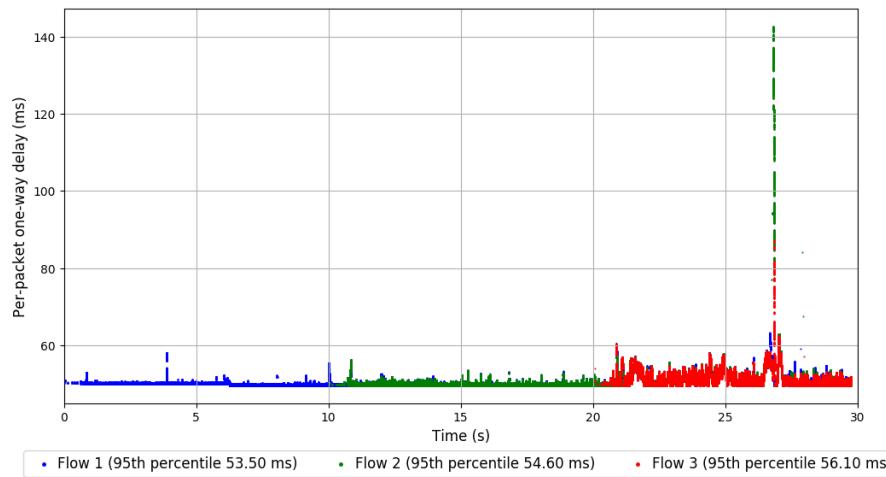
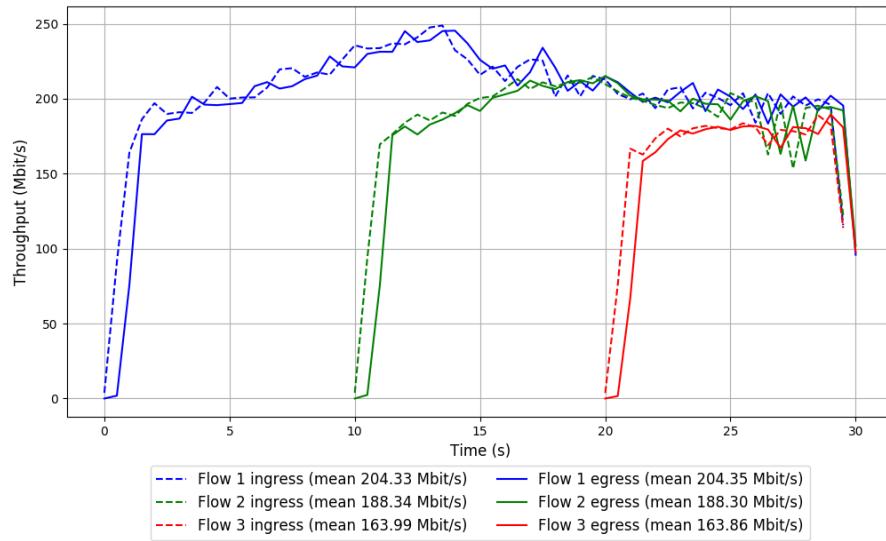


Run 2: Statistics of Indigo

```
Start at: 2018-06-07 17:11:26
End at: 2018-06-07 17:11:56
Local clock offset: -0.253 ms
Remote clock offset: 0.051 ms

# Below is generated by plot.py at 2018-06-07 21:49:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 382.73 Mbit/s
95th percentile per-packet one-way delay: 54.456 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 204.35 Mbit/s
95th percentile per-packet one-way delay: 53.503 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 188.30 Mbit/s
95th percentile per-packet one-way delay: 54.603 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 163.86 Mbit/s
95th percentile per-packet one-way delay: 56.097 ms
Loss rate: 1.12%
```

## Run 2: Report of Indigo — Data Link

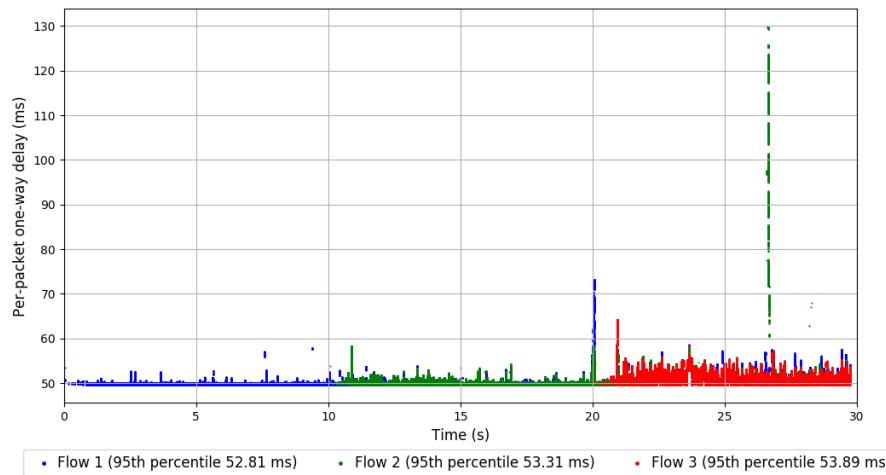
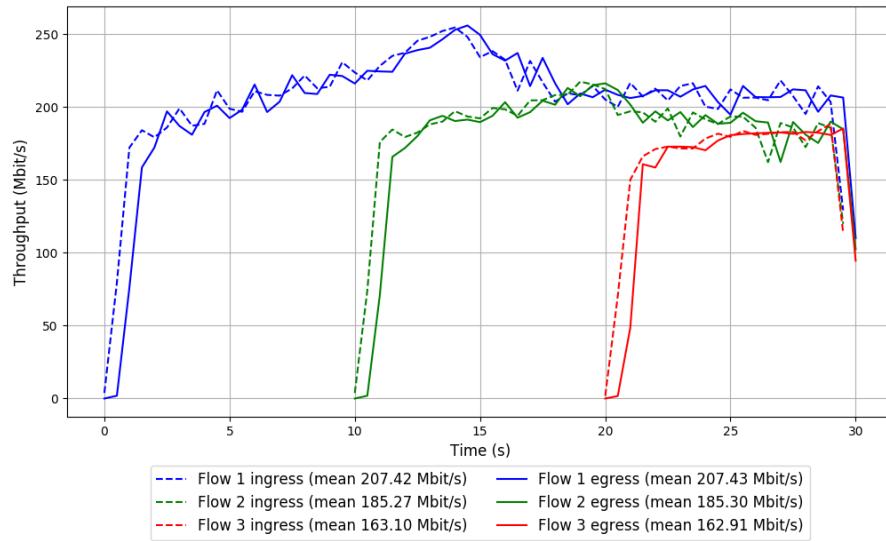


Run 3: Statistics of Indigo

```
Start at: 2018-06-07 17:34:33
End at: 2018-06-07 17:35:03
Local clock offset: -0.176 ms
Remote clock offset: 0.354 ms

# Below is generated by plot.py at 2018-06-07 21:49:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 383.24 Mbit/s
95th percentile per-packet one-way delay: 53.217 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 207.43 Mbit/s
95th percentile per-packet one-way delay: 52.815 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 185.30 Mbit/s
95th percentile per-packet one-way delay: 53.308 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 162.91 Mbit/s
95th percentile per-packet one-way delay: 53.888 ms
Loss rate: 1.18%
```

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

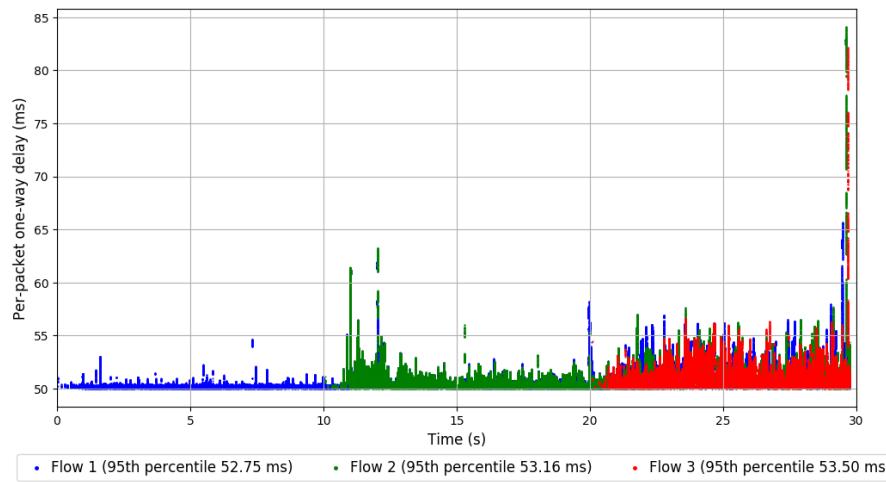
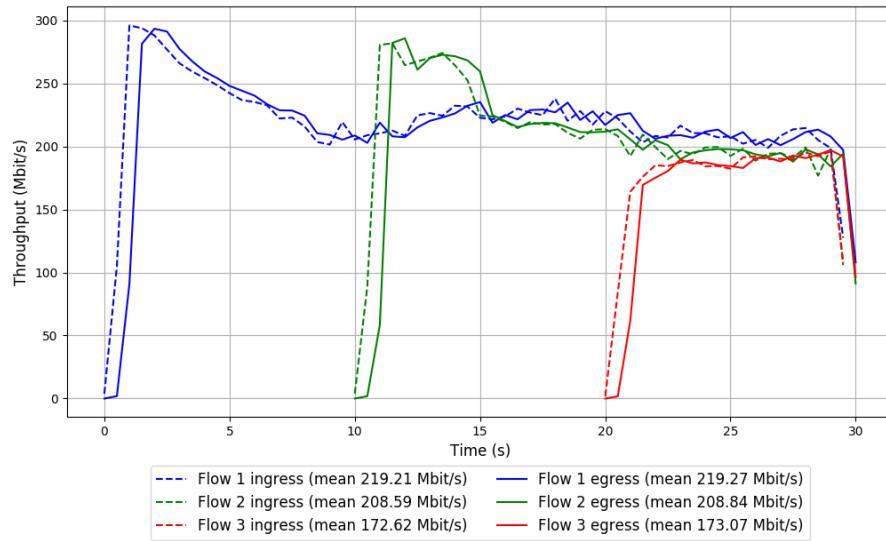


Run 4: Statistics of Indigo

```
Start at: 2018-06-07 17:57:31
End at: 2018-06-07 17:58:01
Local clock offset: 0.186 ms
Remote clock offset: 0.381 ms

# Below is generated by plot.py at 2018-06-07 21:49:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 413.81 Mbit/s
95th percentile per-packet one-way delay: 53.039 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 219.27 Mbit/s
95th percentile per-packet one-way delay: 52.751 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 208.84 Mbit/s
95th percentile per-packet one-way delay: 53.163 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 173.07 Mbit/s
95th percentile per-packet one-way delay: 53.498 ms
Loss rate: 0.92%
```

Run 4: Report of Indigo — Data Link

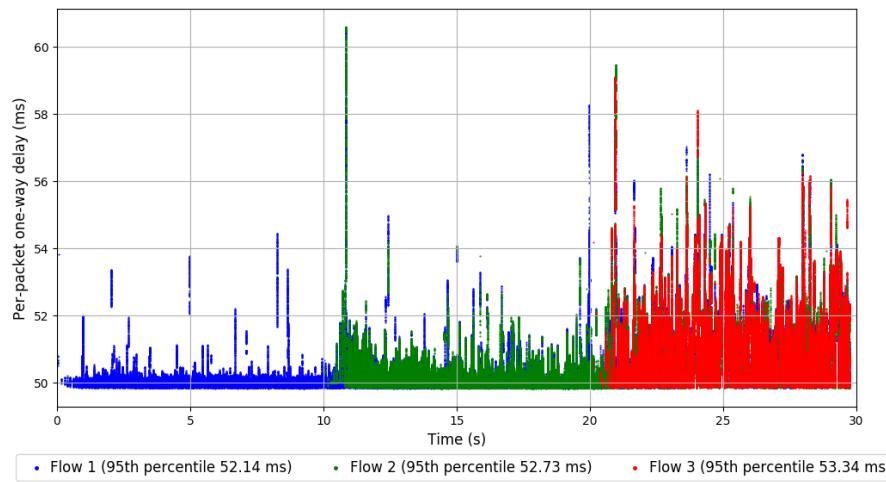
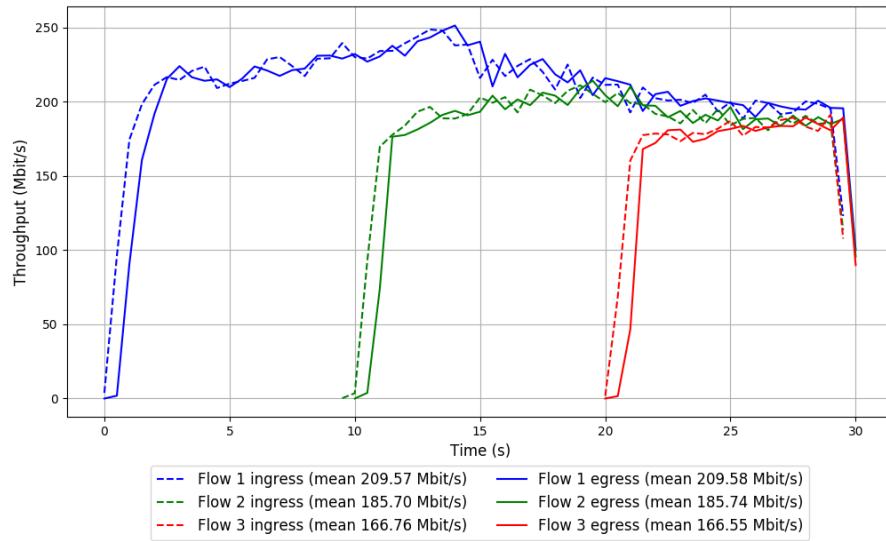


Run 5: Statistics of Indigo

```
Start at: 2018-06-07 18:20:10
End at: 2018-06-07 18:20:40
Local clock offset: -0.152 ms
Remote clock offset: 0.506 ms

# Below is generated by plot.py at 2018-06-07 21:49:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 386.79 Mbit/s
95th percentile per-packet one-way delay: 52.645 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 209.58 Mbit/s
95th percentile per-packet one-way delay: 52.140 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 185.74 Mbit/s
95th percentile per-packet one-way delay: 52.728 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 166.55 Mbit/s
95th percentile per-packet one-way delay: 53.339 ms
Loss rate: 1.17%
```

Run 5: Report of Indigo — Data Link

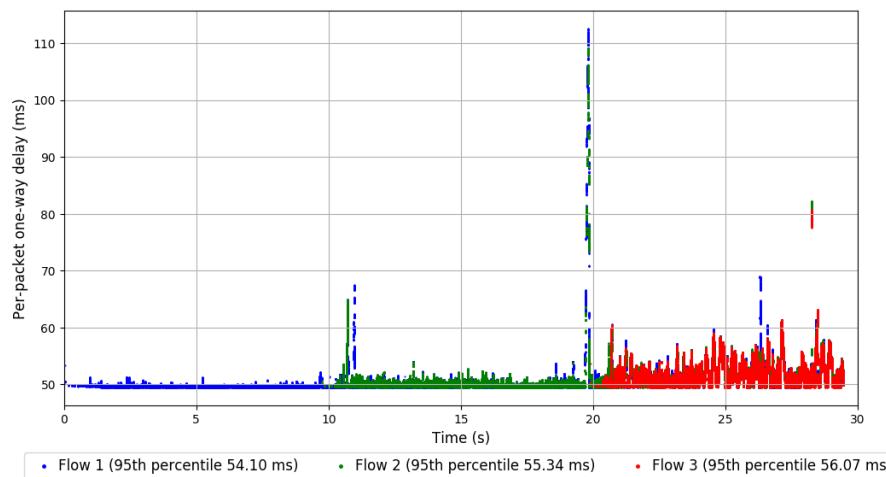
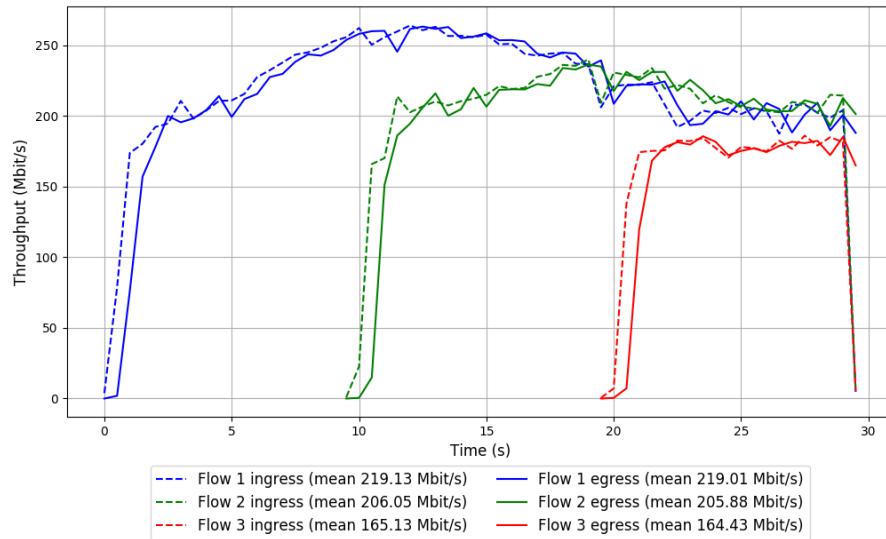


Run 6: Statistics of Indigo

```
Start at: 2018-06-07 18:43:03
End at: 2018-06-07 18:43:33
Local clock offset: -0.409 ms
Remote clock offset: 0.158 ms

# Below is generated by plot.py at 2018-06-07 21:49:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 410.45 Mbit/s
95th percentile per-packet one-way delay: 55.085 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 219.01 Mbit/s
95th percentile per-packet one-way delay: 54.096 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 205.88 Mbit/s
95th percentile per-packet one-way delay: 55.335 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 164.43 Mbit/s
95th percentile per-packet one-way delay: 56.074 ms
Loss rate: 1.48%
```

## Run 6: Report of Indigo — Data Link

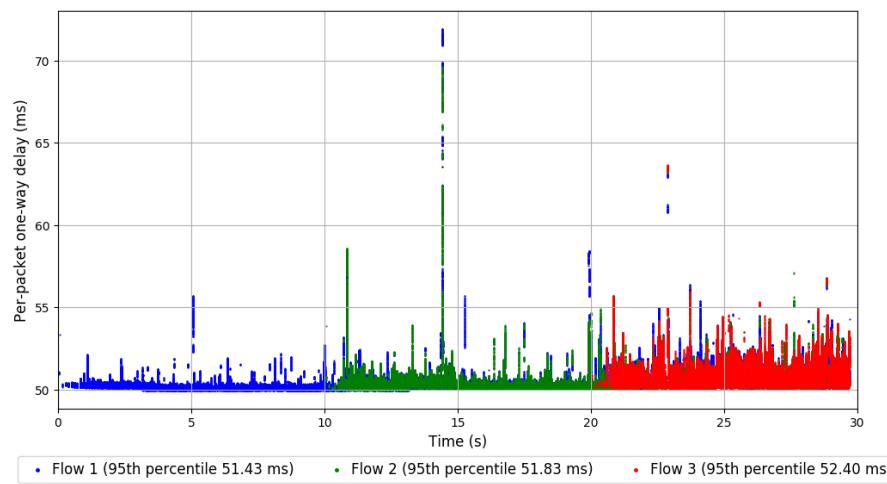
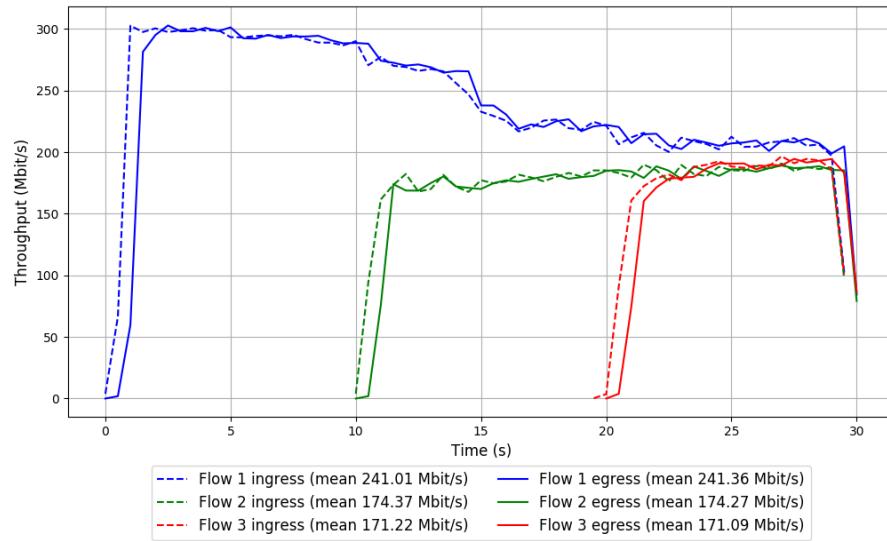


Run 7: Statistics of Indigo

```
Start at: 2018-06-07 19:06:32
End at: 2018-06-07 19:07:02
Local clock offset: 0.023 ms
Remote clock offset: -0.25 ms

# Below is generated by plot.py at 2018-06-07 21:49:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 412.72 Mbit/s
95th percentile per-packet one-way delay: 51.726 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 241.36 Mbit/s
95th percentile per-packet one-way delay: 51.431 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 174.27 Mbit/s
95th percentile per-packet one-way delay: 51.829 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 171.09 Mbit/s
95th percentile per-packet one-way delay: 52.398 ms
Loss rate: 1.11%
```

## Run 7: Report of Indigo — Data Link

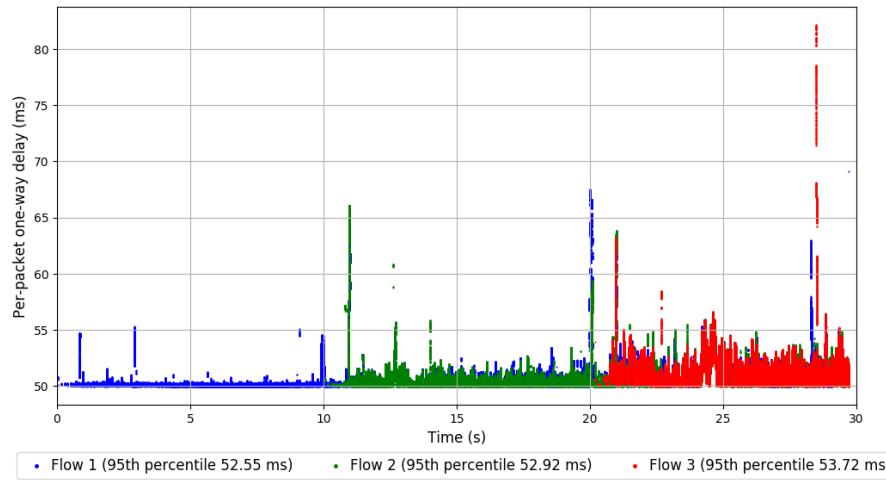
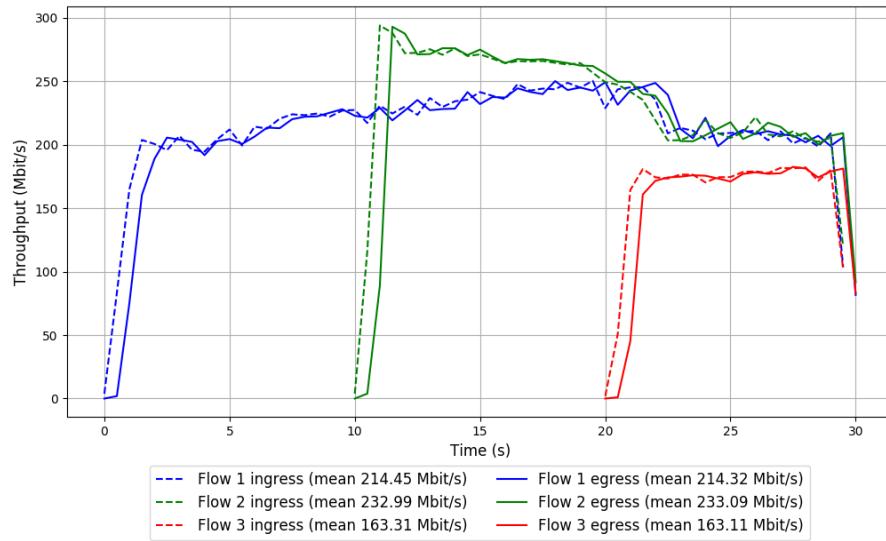


Run 8: Statistics of Indigo

```
Start at: 2018-06-07 19:29:11
End at: 2018-06-07 19:29:41
Local clock offset: -0.041 ms
Remote clock offset: -0.453 ms

# Below is generated by plot.py at 2018-06-07 21:49:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 421.28 Mbit/s
95th percentile per-packet one-way delay: 52.911 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 214.32 Mbit/s
95th percentile per-packet one-way delay: 52.552 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 233.09 Mbit/s
95th percentile per-packet one-way delay: 52.925 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 163.11 Mbit/s
95th percentile per-packet one-way delay: 53.715 ms
Loss rate: 1.18%
```

Run 8: Report of Indigo — Data Link

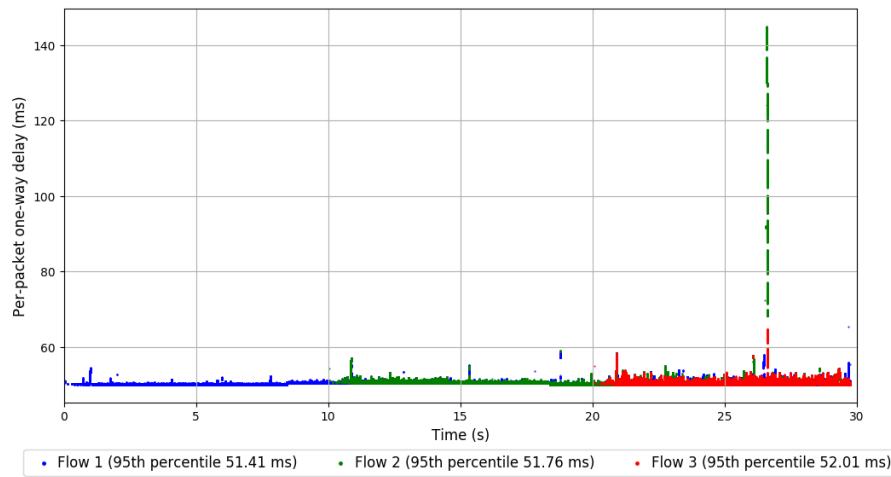
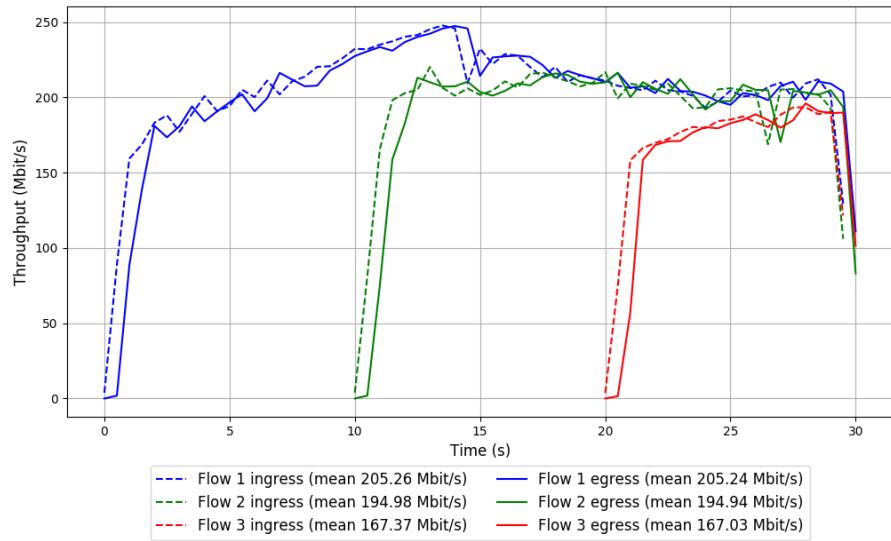


Run 9: Statistics of Indigo

```
Start at: 2018-06-07 19:51:37
End at: 2018-06-07 19:52:07
Local clock offset: 0.121 ms
Remote clock offset: -0.119 ms

# Below is generated by plot.py at 2018-06-07 21:49:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 388.96 Mbit/s
95th percentile per-packet one-way delay: 51.651 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 205.24 Mbit/s
95th percentile per-packet one-way delay: 51.413 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 194.94 Mbit/s
95th percentile per-packet one-way delay: 51.764 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 167.03 Mbit/s
95th percentile per-packet one-way delay: 52.011 ms
Loss rate: 1.23%
```

## Run 9: Report of Indigo — Data Link

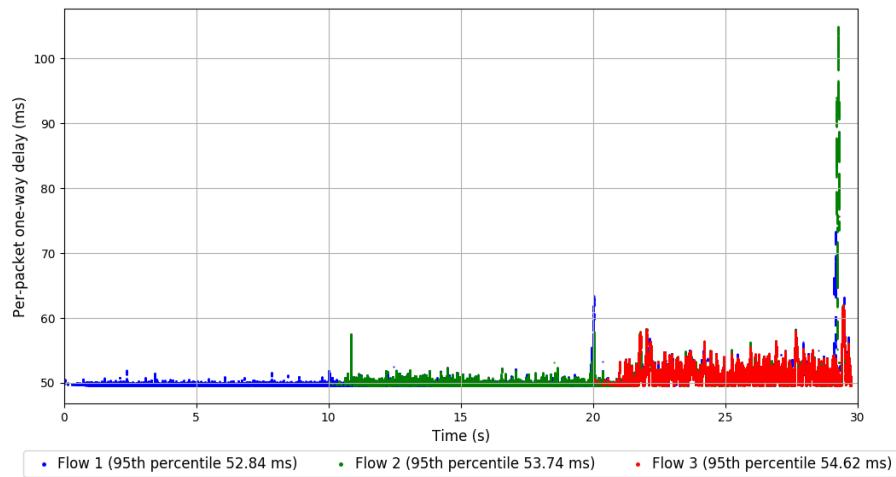
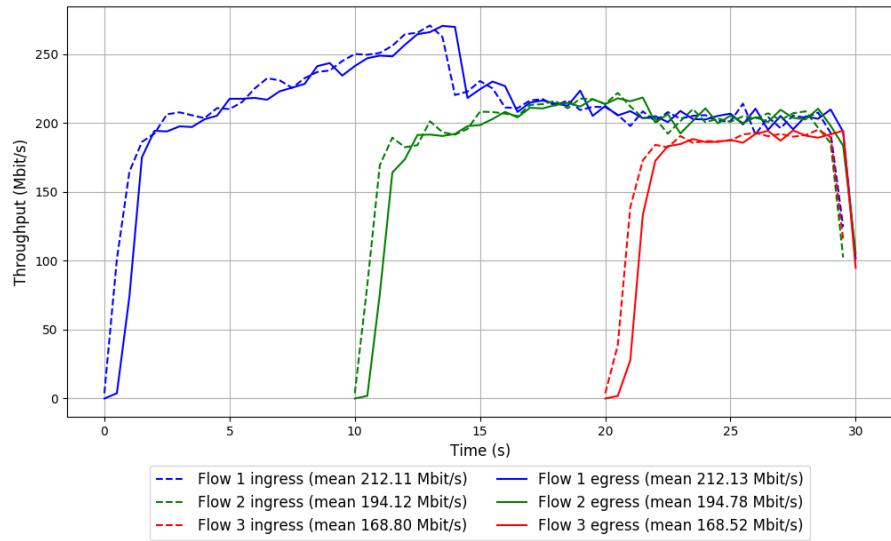


Run 10: Statistics of Indigo

```
Start at: 2018-06-07 20:14:13
End at: 2018-06-07 20:14:43
Local clock offset: -0.325 ms
Remote clock offset: -0.003 ms

# Below is generated by plot.py at 2018-06-07 21:49:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 396.34 Mbit/s
95th percentile per-packet one-way delay: 53.535 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 212.13 Mbit/s
95th percentile per-packet one-way delay: 52.838 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 194.78 Mbit/s
95th percentile per-packet one-way delay: 53.736 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 168.52 Mbit/s
95th percentile per-packet one-way delay: 54.623 ms
Loss rate: 1.19%
```

Run 10: Report of Indigo — Data Link

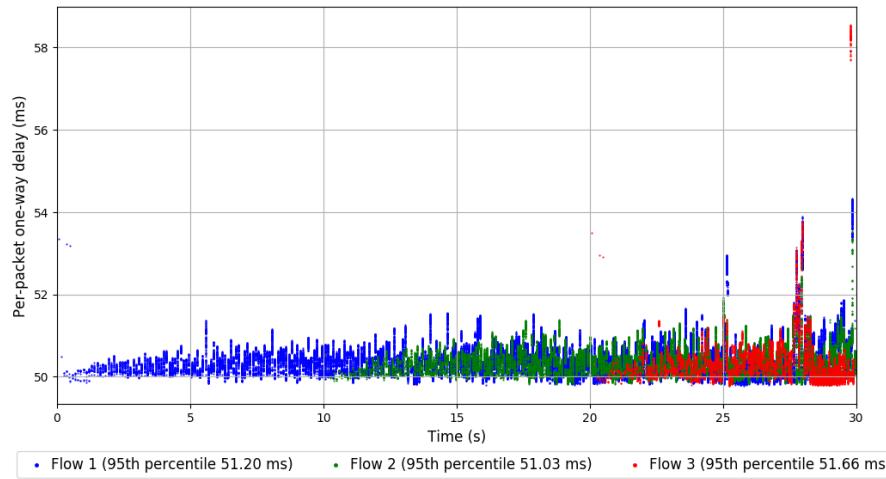
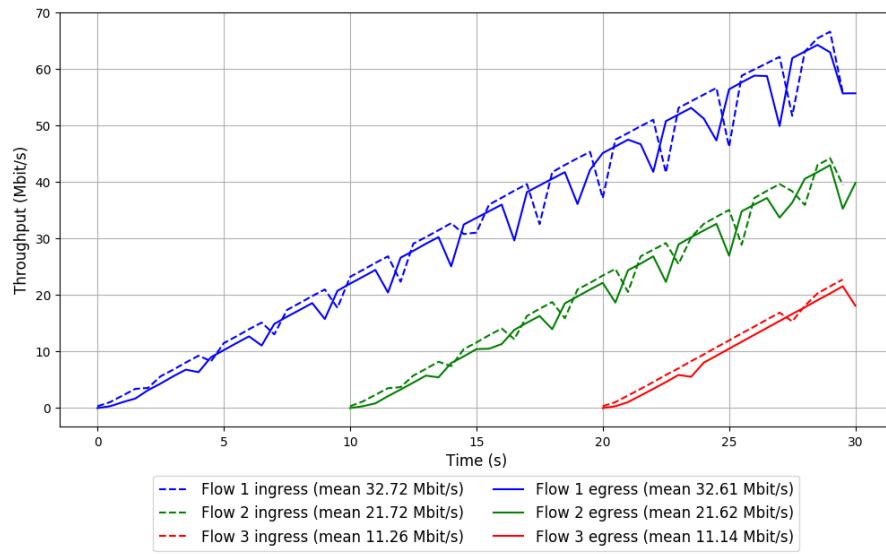


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2018-06-07 16:47:52
End at: 2018-06-07 16:48:22
Local clock offset: -0.088 ms
Remote clock offset: -0.808 ms

# Below is generated by plot.py at 2018-06-07 21:49:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 50.64 Mbit/s
95th percentile per-packet one-way delay: 51.148 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 32.61 Mbit/s
95th percentile per-packet one-way delay: 51.197 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 21.62 Mbit/s
95th percentile per-packet one-way delay: 51.034 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 11.14 Mbit/s
95th percentile per-packet one-way delay: 51.659 ms
Loss rate: 2.08%
```

Run 1: Report of LEDBAT — Data Link

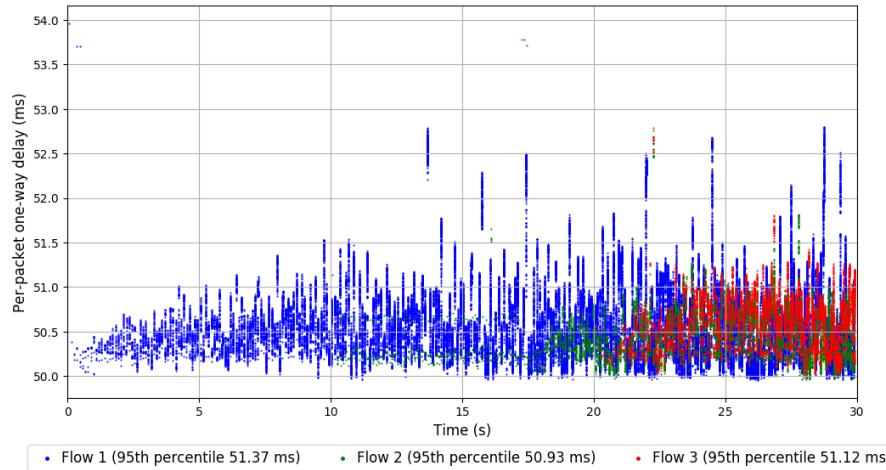
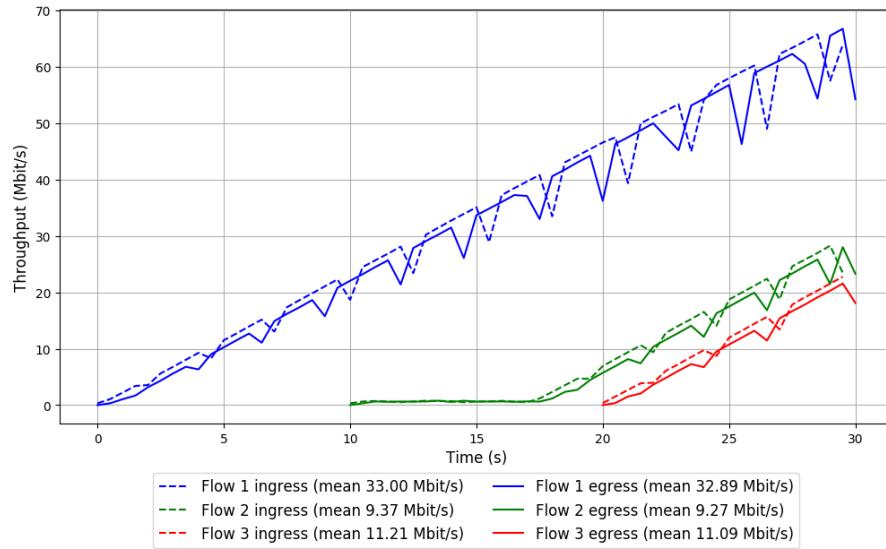


Run 2: Statistics of LEDBAT

```
Start at: 2018-06-07 17:10:15
End at: 2018-06-07 17:10:45
Local clock offset: -0.069 ms
Remote clock offset: -0.063 ms

# Below is generated by plot.py at 2018-06-07 21:49:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 42.67 Mbit/s
95th percentile per-packet one-way delay: 51.295 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 32.89 Mbit/s
95th percentile per-packet one-way delay: 51.369 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 9.27 Mbit/s
95th percentile per-packet one-way delay: 50.930 ms
Loss rate: 1.59%
-- Flow 3:
Average throughput: 11.09 Mbit/s
95th percentile per-packet one-way delay: 51.124 ms
Loss rate: 2.08%
```

Run 2: Report of LEDBAT — Data Link

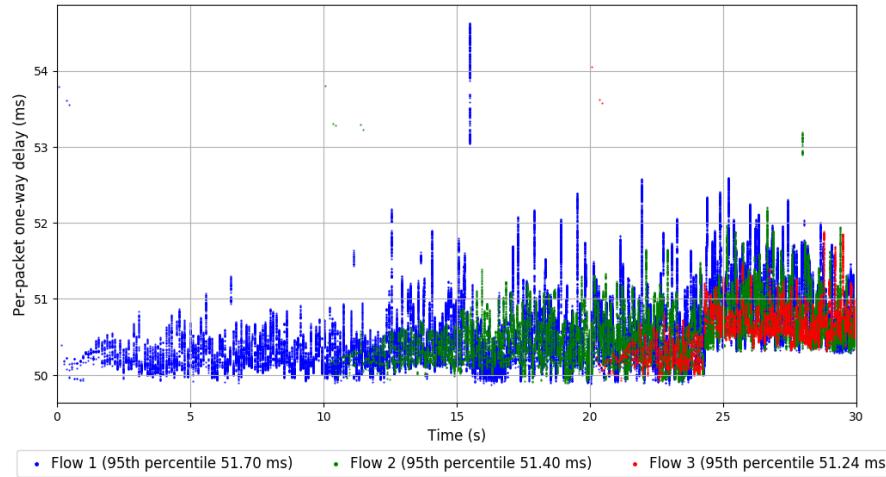
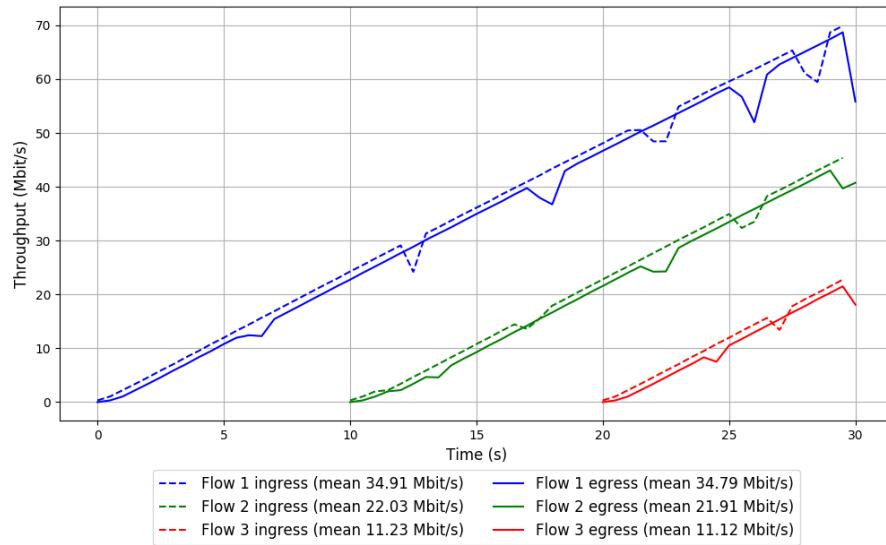


Run 3: Statistics of LEDBAT

```
Start at: 2018-06-07 17:33:21
End at: 2018-06-07 17:33:51
Local clock offset: -0.181 ms
Remote clock offset: 0.105 ms

# Below is generated by plot.py at 2018-06-07 21:49:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 52.99 Mbit/s
95th percentile per-packet one-way delay: 51.614 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 34.79 Mbit/s
95th percentile per-packet one-way delay: 51.704 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 21.91 Mbit/s
95th percentile per-packet one-way delay: 51.396 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 11.12 Mbit/s
95th percentile per-packet one-way delay: 51.239 ms
Loss rate: 2.08%
```

Run 3: Report of LEDBAT — Data Link

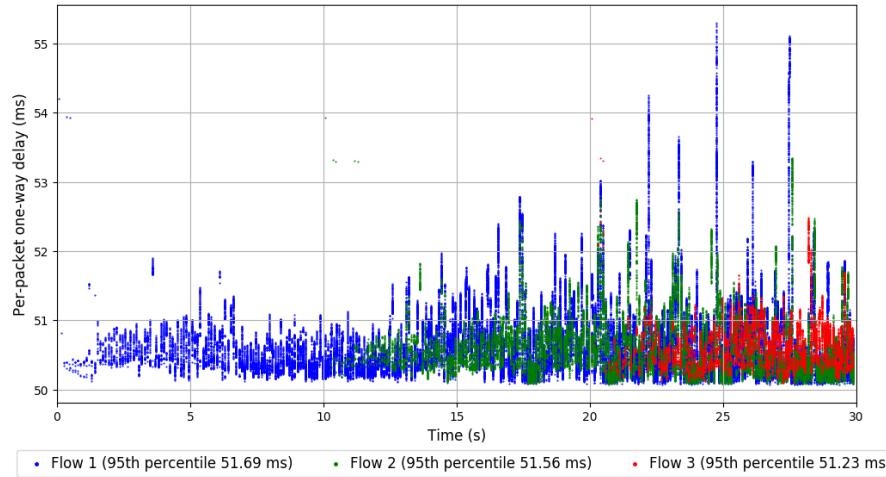
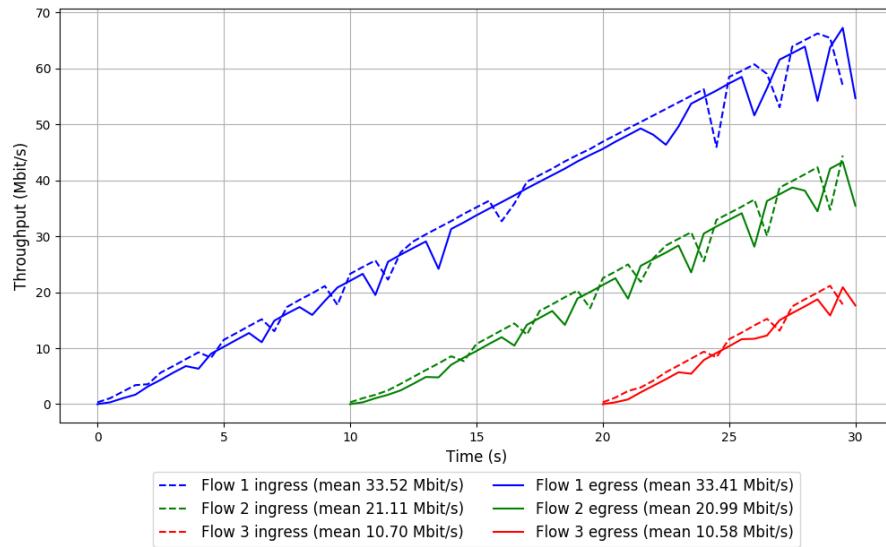


Run 4: Statistics of LEDBAT

```
Start at: 2018-06-07 17:56:19
End at: 2018-06-07 17:56:49
Local clock offset: 0.217 ms
Remote clock offset: 0.35 ms

# Below is generated by plot.py at 2018-06-07 21:49:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 50.82 Mbit/s
95th percentile per-packet one-way delay: 51.638 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 33.41 Mbit/s
95th percentile per-packet one-way delay: 51.685 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 20.99 Mbit/s
95th percentile per-packet one-way delay: 51.562 ms
Loss rate: 1.07%
-- Flow 3:
Average throughput: 10.58 Mbit/s
95th percentile per-packet one-way delay: 51.225 ms
Loss rate: 2.14%
```

Run 4: Report of LEDBAT — Data Link

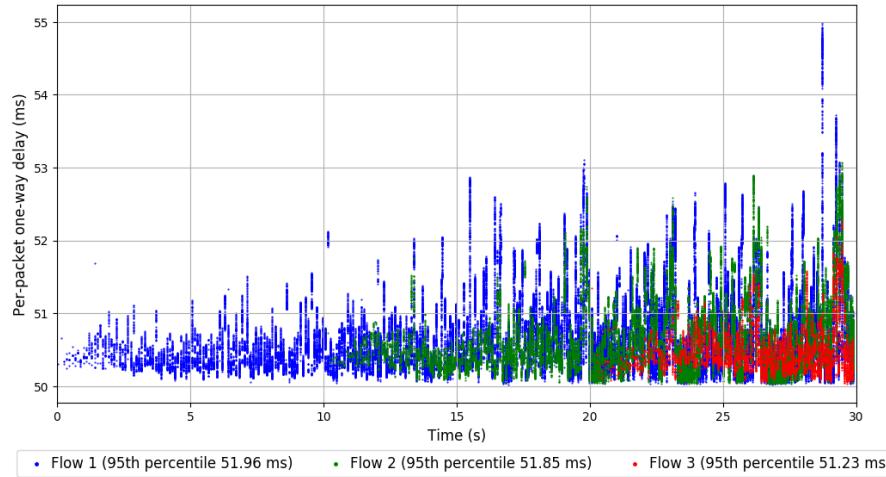
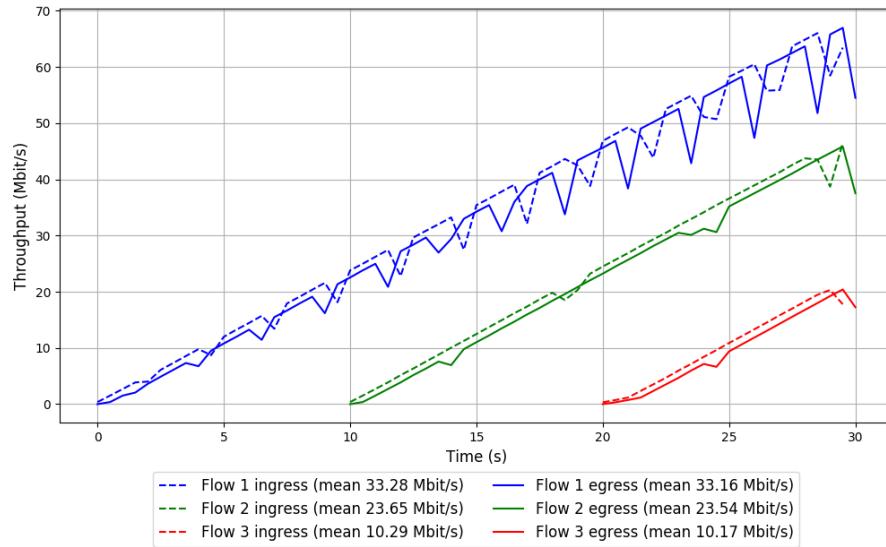


Run 5: Statistics of LEDBAT

```
Start at: 2018-06-07 18:18:58
End at: 2018-06-07 18:19:28
Local clock offset: 0.099 ms
Remote clock offset: 0.557 ms

# Below is generated by plot.py at 2018-06-07 21:49:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 52.13 Mbit/s
95th percentile per-packet one-way delay: 51.895 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 33.16 Mbit/s
95th percentile per-packet one-way delay: 51.959 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 23.54 Mbit/s
95th percentile per-packet one-way delay: 51.852 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 10.17 Mbit/s
95th percentile per-packet one-way delay: 51.229 ms
Loss rate: 2.18%
```

Run 5: Report of LEDBAT — Data Link

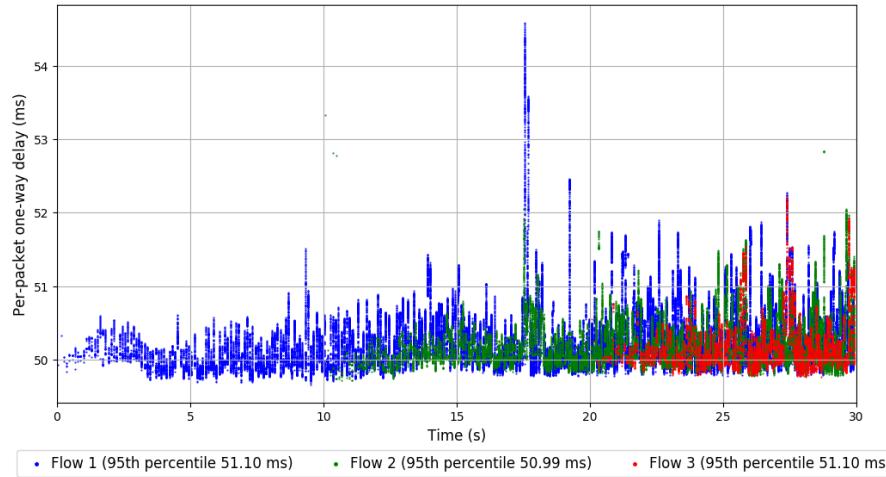
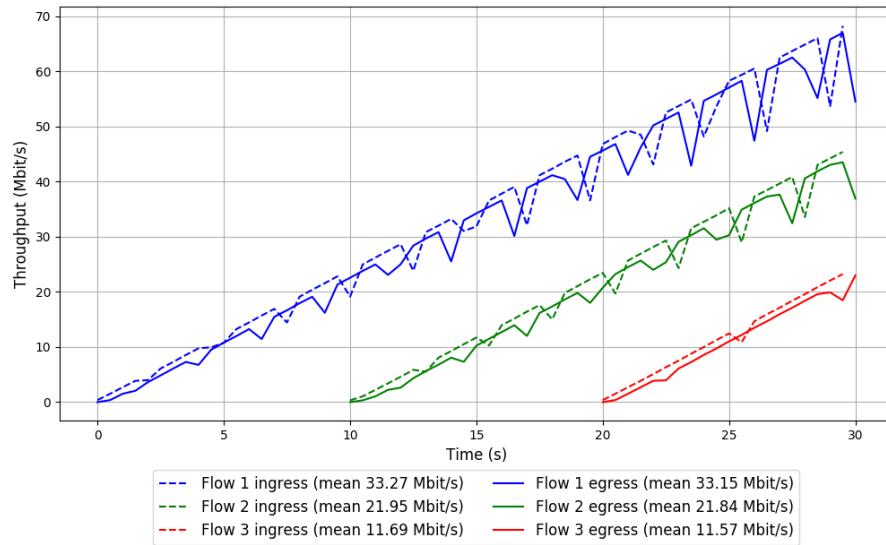


Run 6: Statistics of LEDBAT

```
Start at: 2018-06-07 18:41:52
End at: 2018-06-07 18:42:22
Local clock offset: -0.097 ms
Remote clock offset: 0.372 ms

# Below is generated by plot.py at 2018-06-07 21:49:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 51.45 Mbit/s
95th percentile per-packet one-way delay: 51.074 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 33.15 Mbit/s
95th percentile per-packet one-way delay: 51.100 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 21.84 Mbit/s
95th percentile per-packet one-way delay: 50.995 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 11.57 Mbit/s
95th percentile per-packet one-way delay: 51.103 ms
Loss rate: 2.04%
```

Run 6: Report of LEDBAT — Data Link

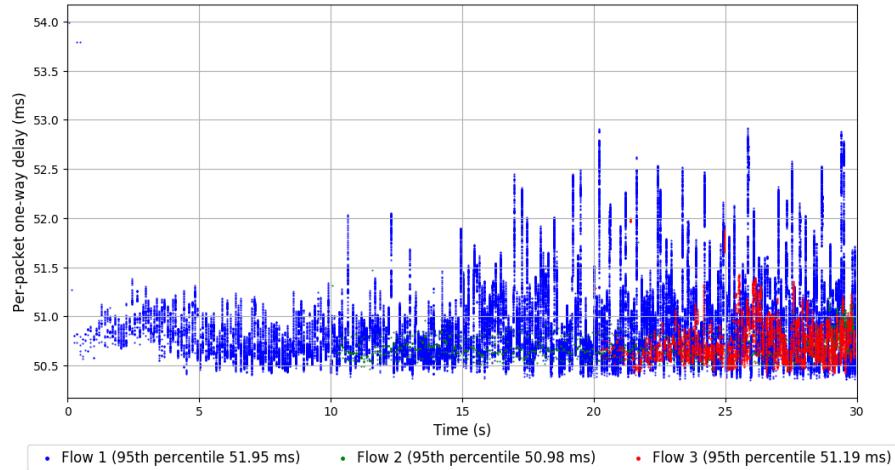
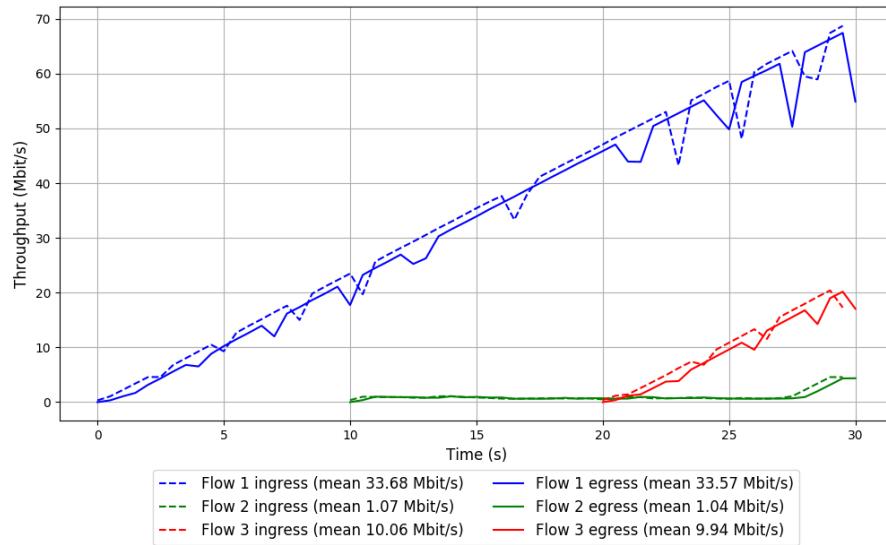


Run 7: Statistics of LEDBAT

```
Start at: 2018-06-07 19:05:21
End at: 2018-06-07 19:05:51
Local clock offset: 0.282 ms
Remote clock offset: -0.399 ms

# Below is generated by plot.py at 2018-06-07 21:49:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 37.53 Mbit/s
95th percentile per-packet one-way delay: 51.893 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 33.57 Mbit/s
95th percentile per-packet one-way delay: 51.952 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 1.04 Mbit/s
95th percentile per-packet one-way delay: 50.980 ms
Loss rate: 2.87%
-- Flow 3:
Average throughput: 9.94 Mbit/s
95th percentile per-packet one-way delay: 51.186 ms
Loss rate: 2.20%
```

Run 7: Report of LEDBAT — Data Link

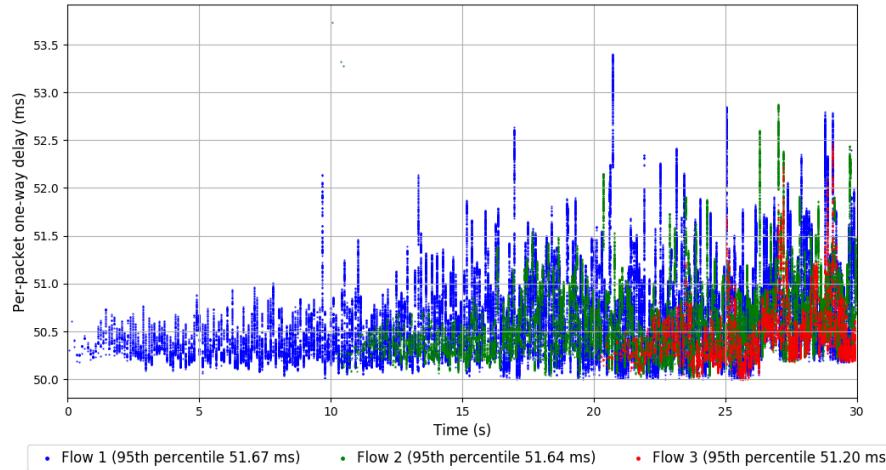
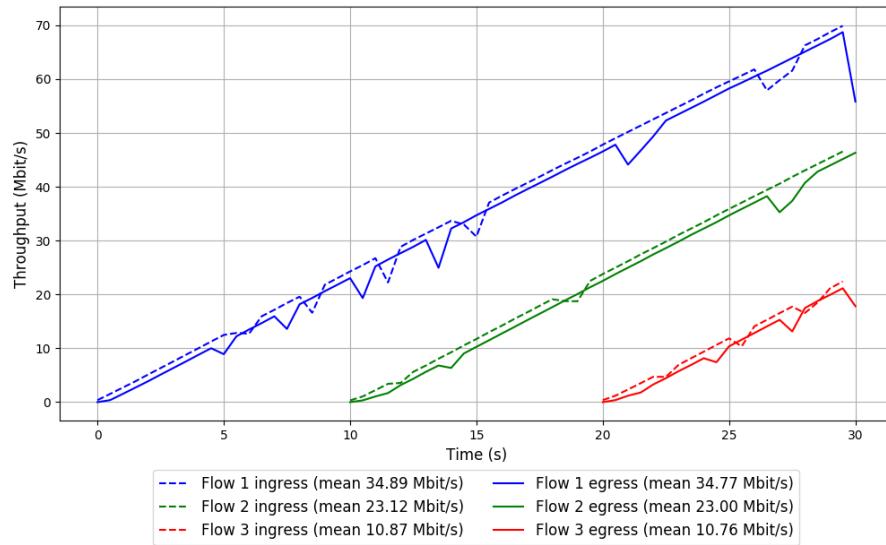


Run 8: Statistics of LEDBAT

```
Start at: 2018-06-07 19:27:59
End at: 2018-06-07 19:28:29
Local clock offset: 0.141 ms
Remote clock offset: -0.32 ms

# Below is generated by plot.py at 2018-06-07 21:49:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 53.57 Mbit/s
95th percentile per-packet one-way delay: 51.646 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 34.77 Mbit/s
95th percentile per-packet one-way delay: 51.668 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 23.00 Mbit/s
95th percentile per-packet one-way delay: 51.636 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 10.76 Mbit/s
95th percentile per-packet one-way delay: 51.201 ms
Loss rate: 2.11%
```

Run 8: Report of LEDBAT — Data Link

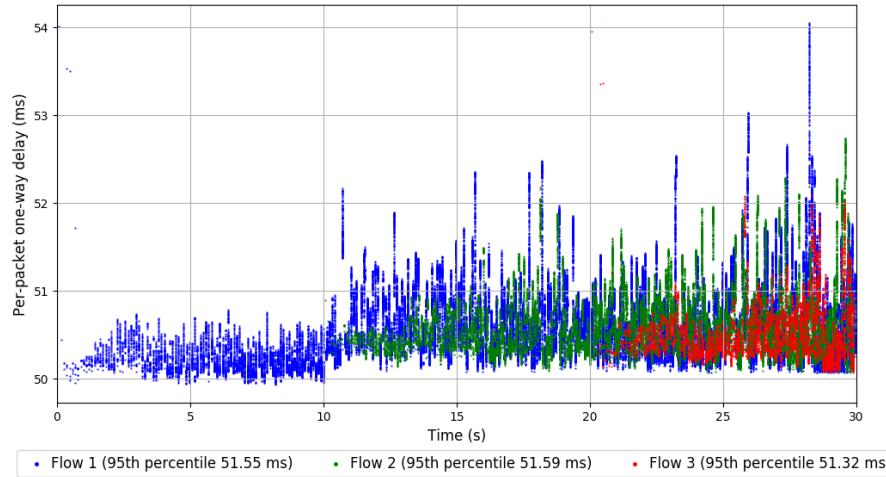
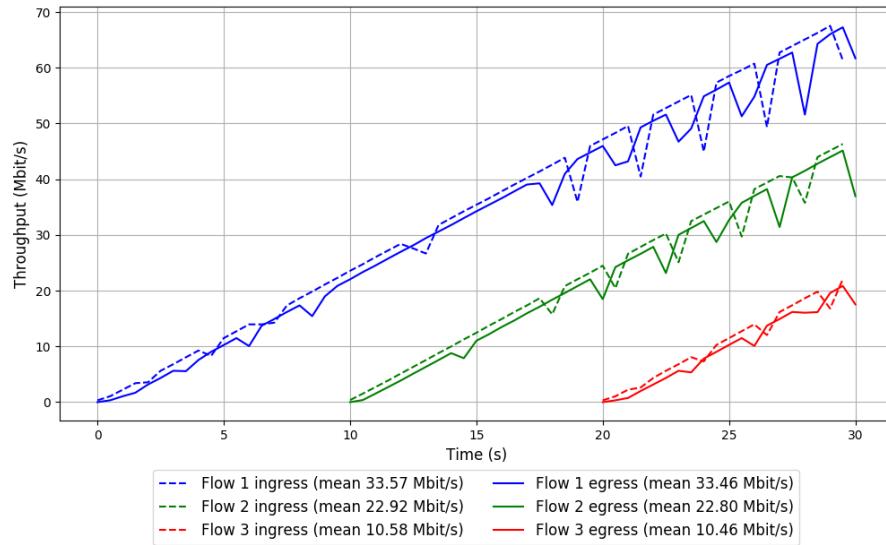


Run 9: Statistics of LEDBAT

```
Start at: 2018-06-07 19:50:25
End at: 2018-06-07 19:50:55
Local clock offset: -0.096 ms
Remote clock offset: -0.289 ms

# Below is generated by plot.py at 2018-06-07 21:49:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 52.02 Mbit/s
95th percentile per-packet one-way delay: 51.548 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 33.46 Mbit/s
95th percentile per-packet one-way delay: 51.551 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 22.80 Mbit/s
95th percentile per-packet one-way delay: 51.591 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 10.46 Mbit/s
95th percentile per-packet one-way delay: 51.319 ms
Loss rate: 2.15%
```

Run 9: Report of LEDBAT — Data Link

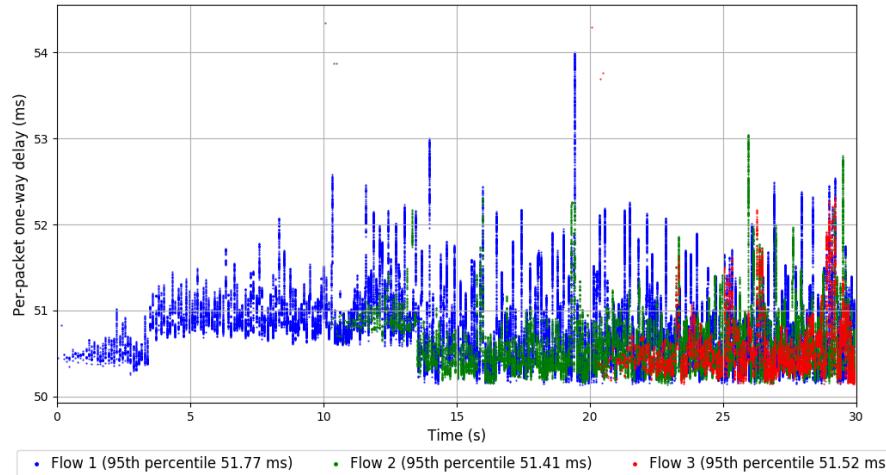
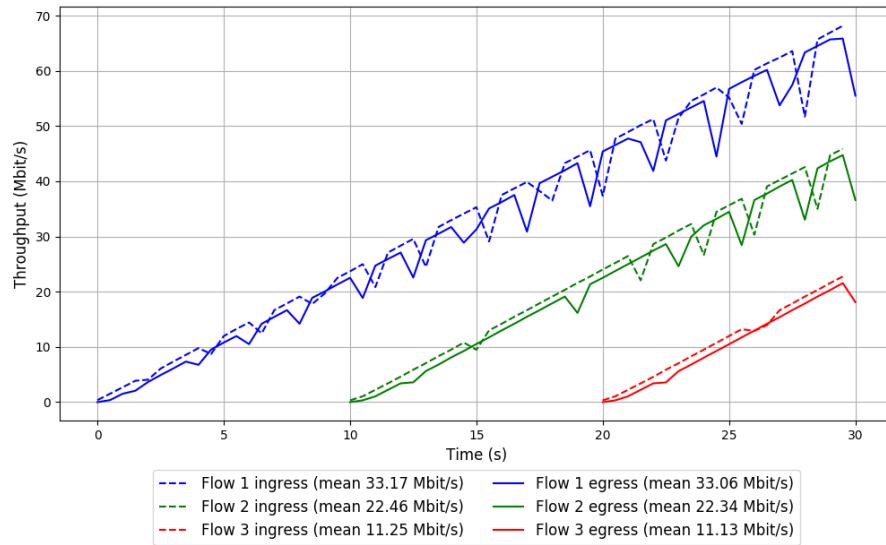


Run 10: Statistics of LEDBAT

```
Start at: 2018-06-07 20:13:02
End at: 2018-06-07 20:13:32
Local clock offset: 0.259 ms
Remote clock offset: 0.014 ms

# Below is generated by plot.py at 2018-06-07 21:49:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 51.56 Mbit/s
95th percentile per-packet one-way delay: 51.685 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 33.06 Mbit/s
95th percentile per-packet one-way delay: 51.771 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 22.34 Mbit/s
95th percentile per-packet one-way delay: 51.407 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 11.13 Mbit/s
95th percentile per-packet one-way delay: 51.520 ms
Loss rate: 2.08%
```

## Run 10: Report of LEDBAT — Data Link

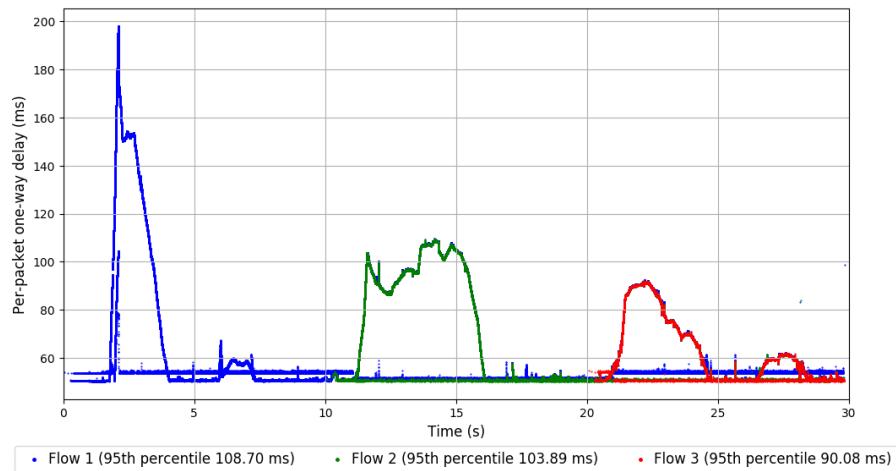
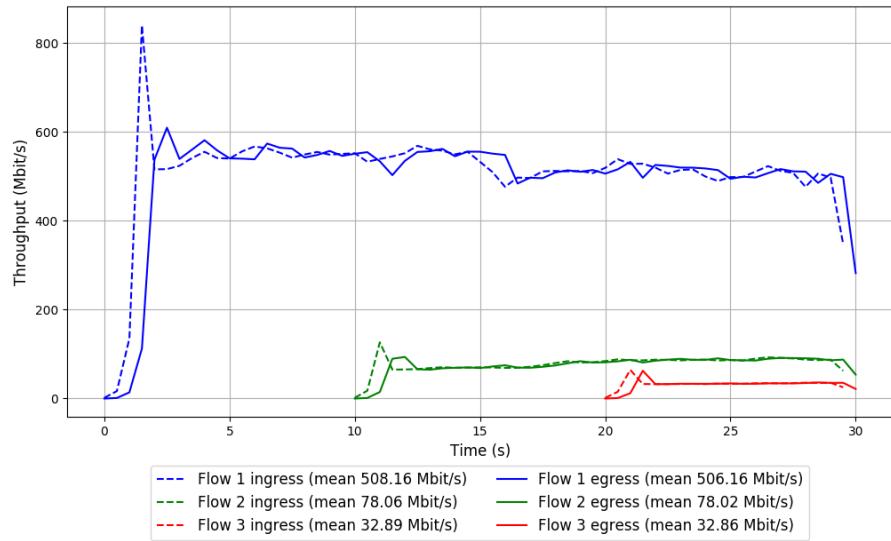


Run 1: Statistics of PCC-Allegro

```
Start at: 2018-06-07 16:37:01
End at: 2018-06-07 16:37:31
Local clock offset: 0.107 ms
Remote clock offset: -1.002 ms

# Below is generated by plot.py at 2018-06-07 21:49:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 568.63 Mbit/s
95th percentile per-packet one-way delay: 108.140 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 506.16 Mbit/s
95th percentile per-packet one-way delay: 108.701 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 78.02 Mbit/s
95th percentile per-packet one-way delay: 103.893 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 32.86 Mbit/s
95th percentile per-packet one-way delay: 90.080 ms
Loss rate: 1.12%
```

Run 1: Report of PCC-Allegro — Data Link

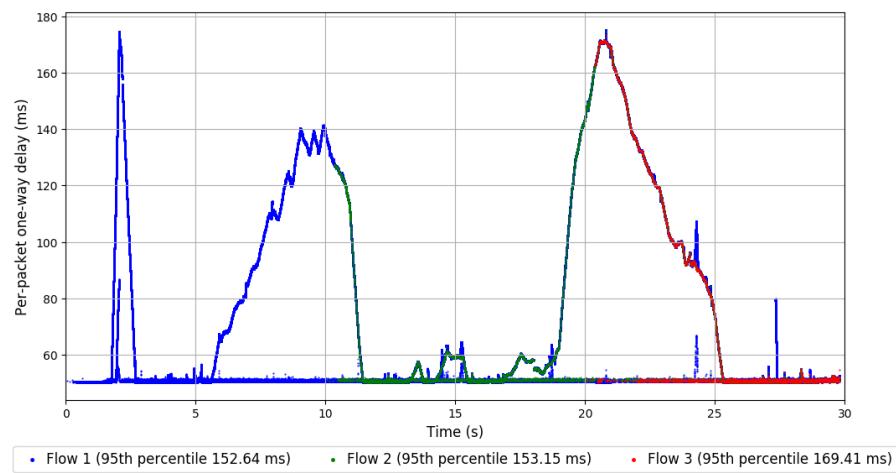
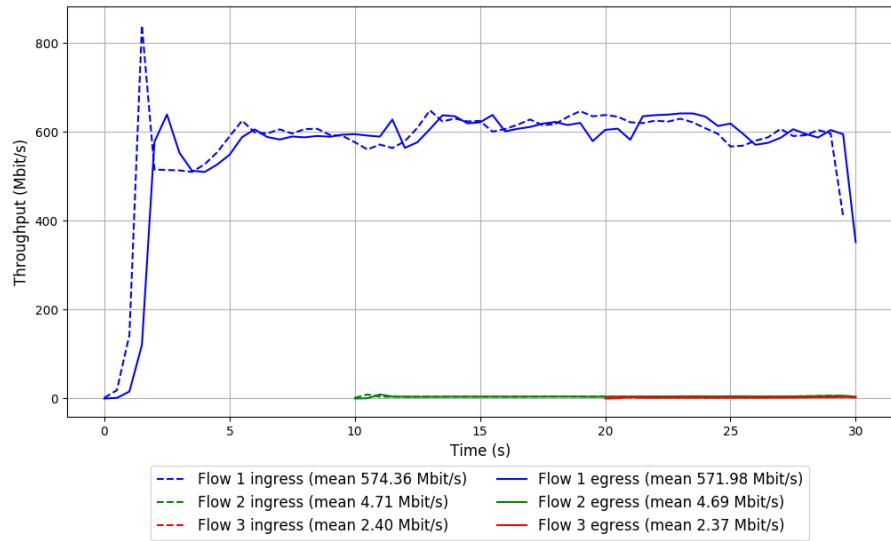


Run 2: Statistics of PCC-Allegro

```
Start at: 2018-06-07 16:59:28
End at: 2018-06-07 16:59:58
Local clock offset: -0.058 ms
Remote clock offset: -0.598 ms

# Below is generated by plot.py at 2018-06-07 21:49:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 575.79 Mbit/s
95th percentile per-packet one-way delay: 152.668 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 571.98 Mbit/s
95th percentile per-packet one-way delay: 152.644 ms
Loss rate: 0.75%
-- Flow 2:
Average throughput: 4.69 Mbit/s
95th percentile per-packet one-way delay: 153.149 ms
Loss rate: 0.97%
-- Flow 3:
Average throughput: 2.37 Mbit/s
95th percentile per-packet one-way delay: 169.410 ms
Loss rate: 2.23%
```

Run 2: Report of PCC-Allegro — Data Link

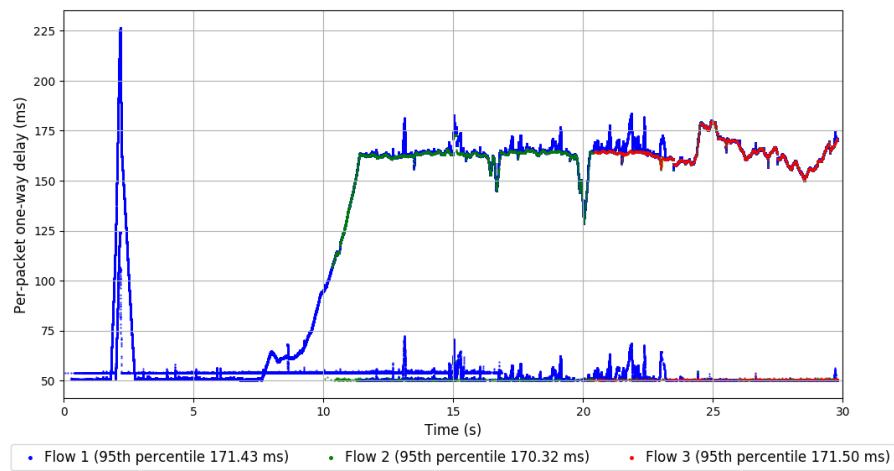
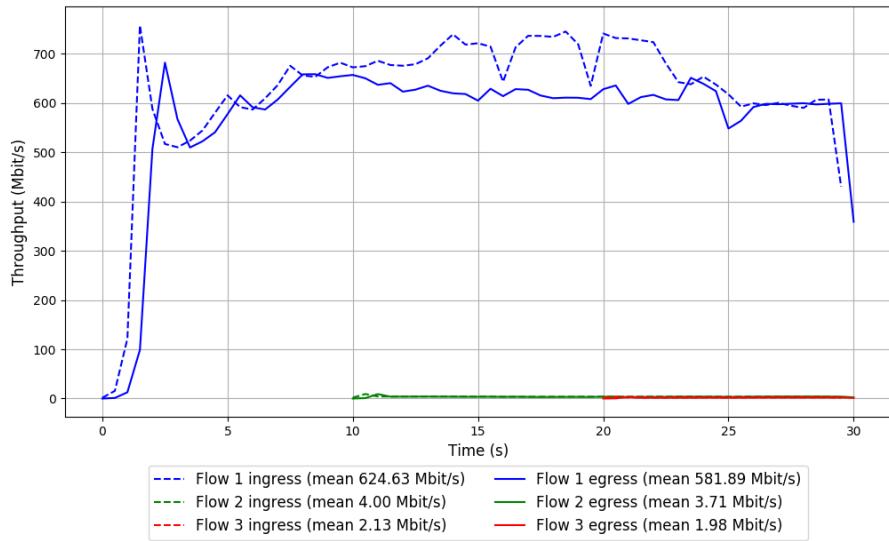


Run 3: Statistics of PCC-Allegro

```
Start at: 2018-06-07 17:22:18
End at: 2018-06-07 17:22:48
Local clock offset: -0.327 ms
Remote clock offset: -0.304 ms

# Below is generated by plot.py at 2018-06-07 21:49:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 585.00 Mbit/s
95th percentile per-packet one-way delay: 171.423 ms
Loss rate: 7.17%
-- Flow 1:
Average throughput: 581.89 Mbit/s
95th percentile per-packet one-way delay: 171.429 ms
Loss rate: 7.16%
-- Flow 2:
Average throughput: 3.71 Mbit/s
95th percentile per-packet one-way delay: 170.321 ms
Loss rate: 7.74%
-- Flow 3:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 171.505 ms
Loss rate: 7.61%
```

Run 3: Report of PCC-Allegro — Data Link

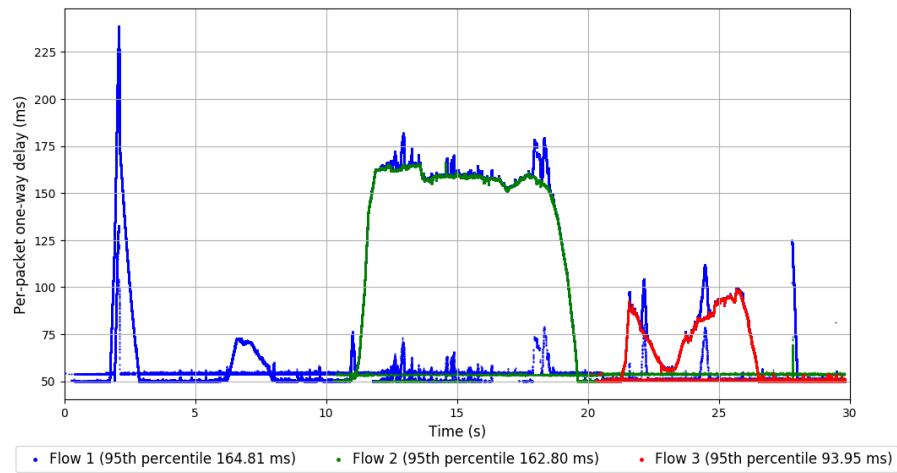
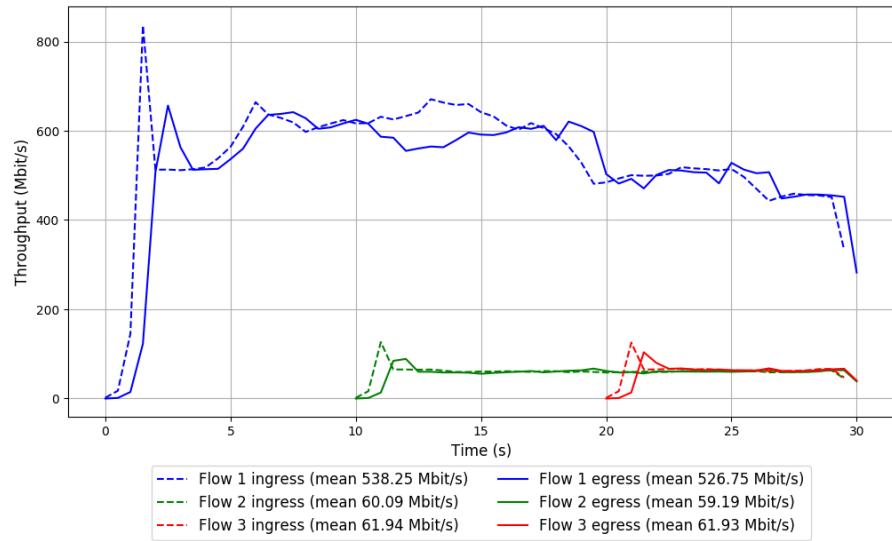


Run 4: Statistics of PCC-Allegro

```
Start at: 2018-06-07 17:45:05
End at: 2018-06-07 17:45:35
Local clock offset: 0.129 ms
Remote clock offset: 0.451 ms

# Below is generated by plot.py at 2018-06-07 21:49:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 586.27 Mbit/s
95th percentile per-packet one-way delay: 164.618 ms
Loss rate: 2.40%
-- Flow 1:
Average throughput: 526.75 Mbit/s
95th percentile per-packet one-way delay: 164.811 ms
Loss rate: 2.48%
-- Flow 2:
Average throughput: 59.19 Mbit/s
95th percentile per-packet one-way delay: 162.797 ms
Loss rate: 2.02%
-- Flow 3:
Average throughput: 61.93 Mbit/s
95th percentile per-packet one-way delay: 93.949 ms
Loss rate: 1.08%
```

Run 4: Report of PCC-Allegro — Data Link

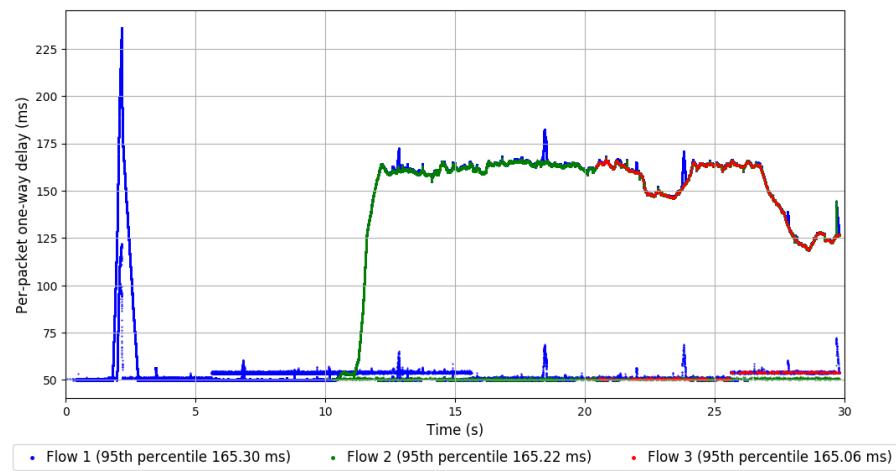
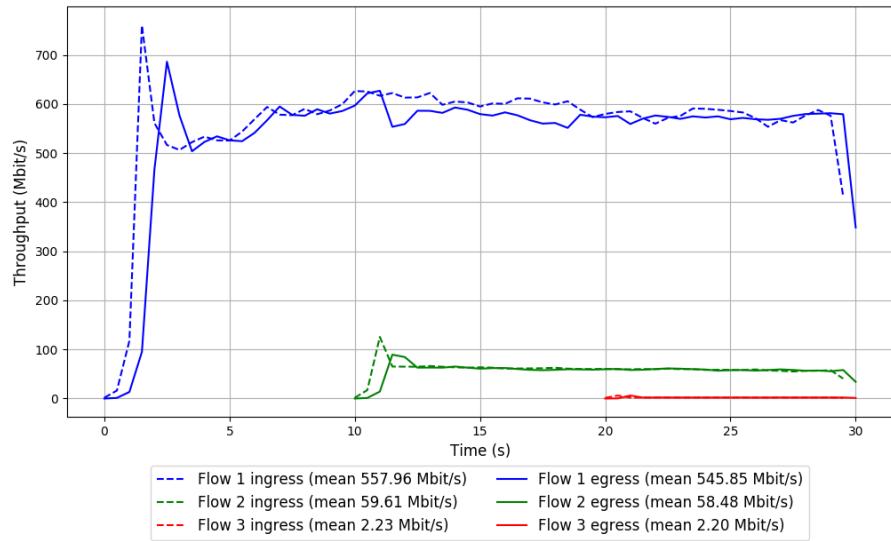


Run 5: Statistics of PCC-Allegro

```
Start at: 2018-06-07 18:08:10
End at: 2018-06-07 18:08:40
Local clock offset: 0.197 ms
Remote clock offset: 0.805 ms

# Below is generated by plot.py at 2018-06-07 21:49:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 585.37 Mbit/s
95th percentile per-packet one-way delay: 165.294 ms
Loss rate: 2.51%
-- Flow 1:
Average throughput: 545.85 Mbit/s
95th percentile per-packet one-way delay: 165.302 ms
Loss rate: 2.51%
-- Flow 2:
Average throughput: 58.48 Mbit/s
95th percentile per-packet one-way delay: 165.215 ms
Loss rate: 2.42%
-- Flow 3:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 165.060 ms
Loss rate: 2.71%
```

Run 5: Report of PCC-Allegro — Data Link

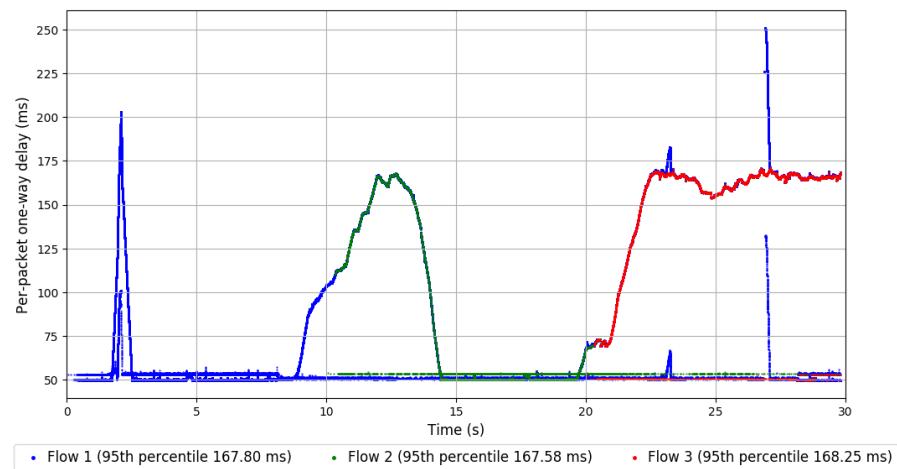
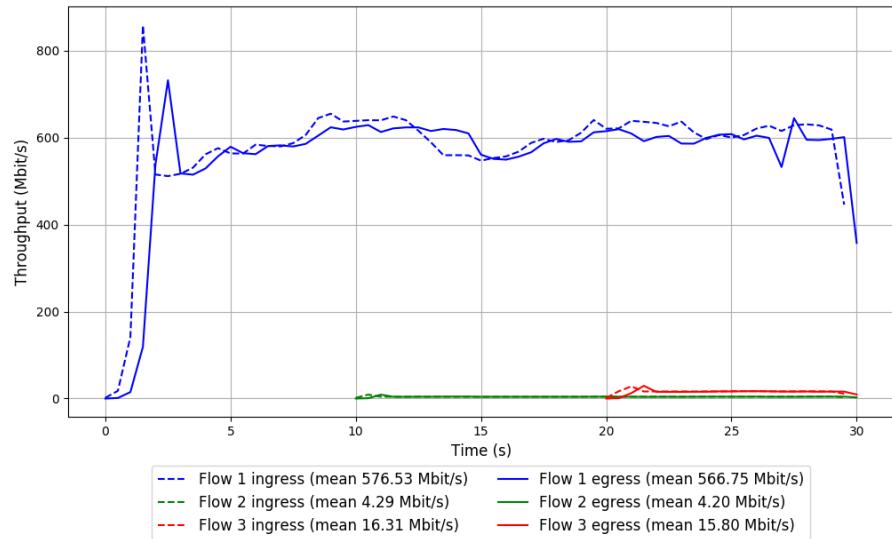


Run 6: Statistics of PCC-Allegro

```
Start at: 2018-06-07 18:30:57
End at: 2018-06-07 18:31:27
Local clock offset: -0.491 ms
Remote clock offset: 0.378 ms

# Below is generated by plot.py at 2018-06-07 21:50:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 574.70 Mbit/s
95th percentile per-packet one-way delay: 167.803 ms
Loss rate: 2.07%
-- Flow 1:
Average throughput: 566.75 Mbit/s
95th percentile per-packet one-way delay: 167.797 ms
Loss rate: 2.05%
-- Flow 2:
Average throughput: 4.20 Mbit/s
95th percentile per-packet one-way delay: 167.583 ms
Loss rate: 2.52%
-- Flow 3:
Average throughput: 15.80 Mbit/s
95th percentile per-packet one-way delay: 168.255 ms
Loss rate: 4.19%
```

Run 6: Report of PCC-Allegro — Data Link

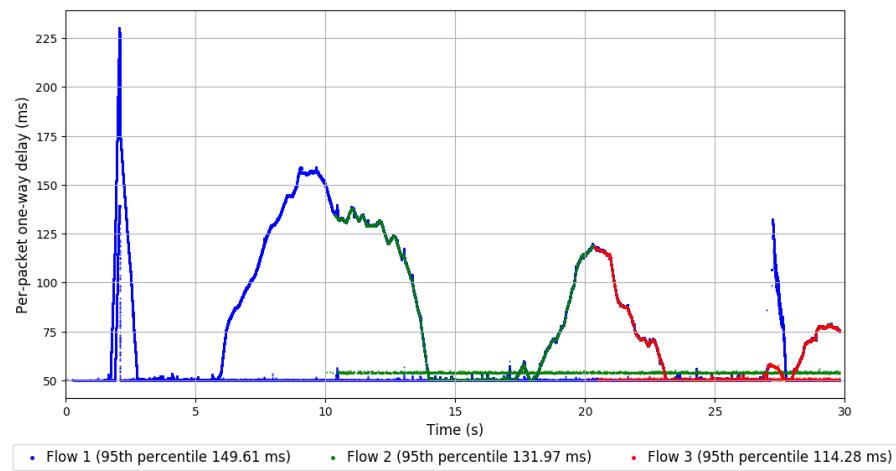
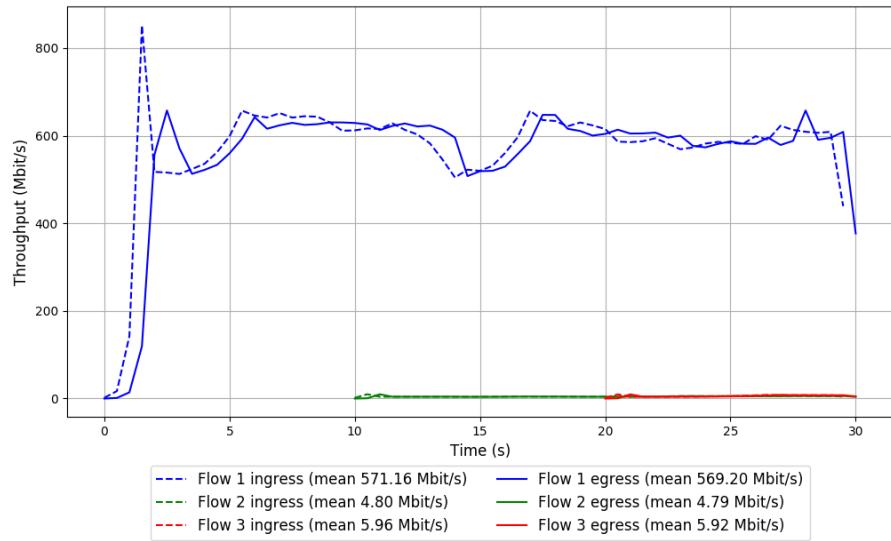


Run 7: Statistics of PCC-Allegro

```
Start at: 2018-06-07 18:54:03
End at: 2018-06-07 18:54:33
Local clock offset: 0.015 ms
Remote clock offset: -0.118 ms

# Below is generated by plot.py at 2018-06-07 21:56:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 574.31 Mbit/s
95th percentile per-packet one-way delay: 149.368 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 569.20 Mbit/s
95th percentile per-packet one-way delay: 149.608 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 4.79 Mbit/s
95th percentile per-packet one-way delay: 131.969 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 5.92 Mbit/s
95th percentile per-packet one-way delay: 114.275 ms
Loss rate: 1.69%
```

Run 7: Report of PCC-Allegro — Data Link

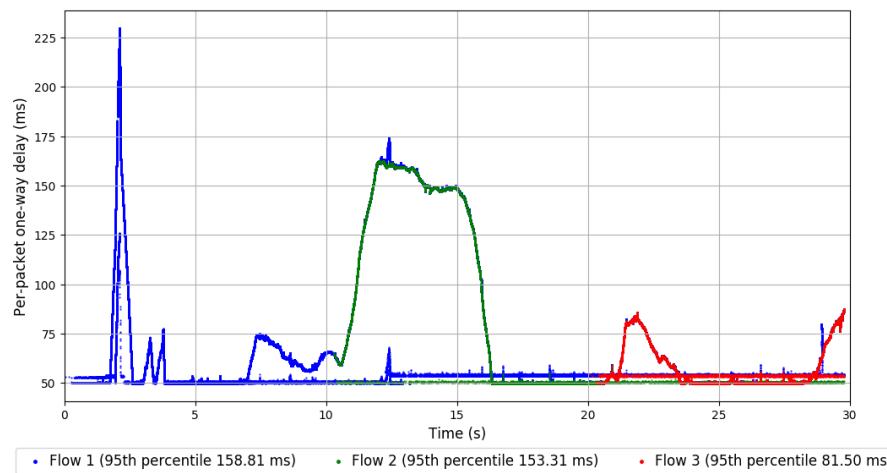
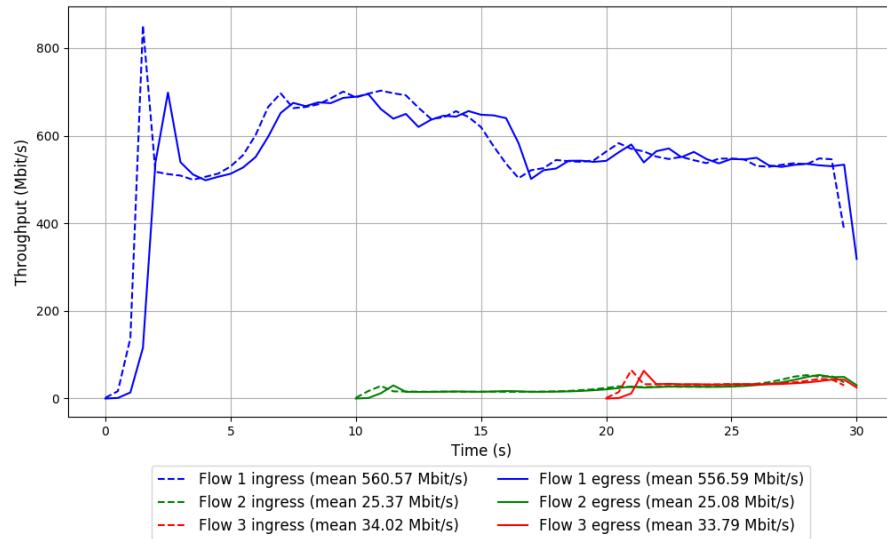


Run 8: Statistics of PCC-Allegro

```
Start at: 2018-06-07 19:17:13
End at: 2018-06-07 19:17:43
Local clock offset: -0.281 ms
Remote clock offset: -0.405 ms

# Below is generated by plot.py at 2018-06-07 21:56:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 584.28 Mbit/s
95th percentile per-packet one-way delay: 158.596 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 556.59 Mbit/s
95th percentile per-packet one-way delay: 158.809 ms
Loss rate: 1.07%
-- Flow 2:
Average throughput: 25.08 Mbit/s
95th percentile per-packet one-way delay: 153.310 ms
Loss rate: 1.67%
-- Flow 3:
Average throughput: 33.79 Mbit/s
95th percentile per-packet one-way delay: 81.497 ms
Loss rate: 1.76%
```

Run 8: Report of PCC-Allegro — Data Link

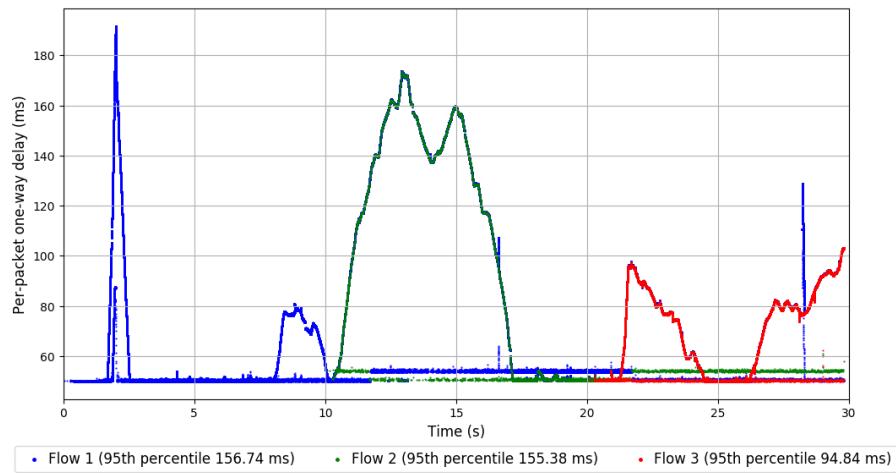
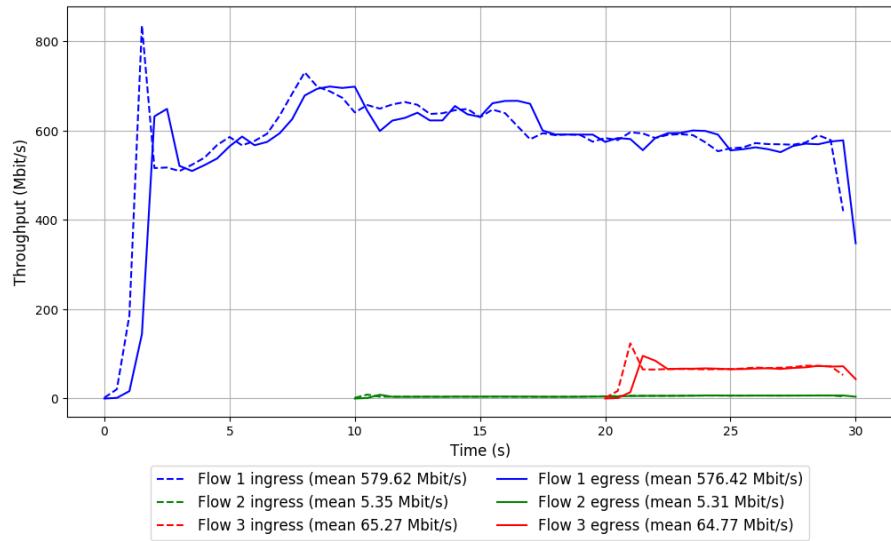


Run 9: Statistics of PCC-Allegro

```
Start at: 2018-06-07 19:39:33
End at: 2018-06-07 19:40:03
Local clock offset: -0.085 ms
Remote clock offset: -0.534 ms

# Below is generated by plot.py at 2018-06-07 21:57:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 601.08 Mbit/s
95th percentile per-packet one-way delay: 156.539 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 576.42 Mbit/s
95th percentile per-packet one-way delay: 156.737 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 5.31 Mbit/s
95th percentile per-packet one-way delay: 155.376 ms
Loss rate: 1.20%
-- Flow 3:
Average throughput: 64.77 Mbit/s
95th percentile per-packet one-way delay: 94.839 ms
Loss rate: 1.78%
```

Run 9: Report of PCC-Allegro — Data Link

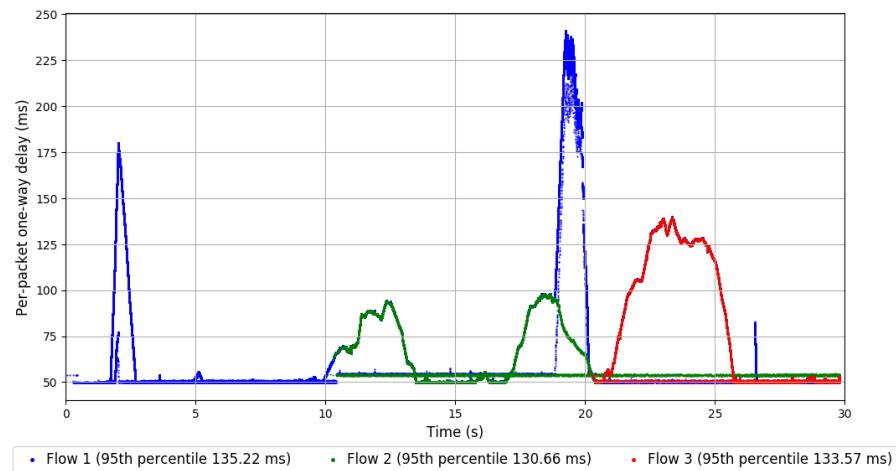
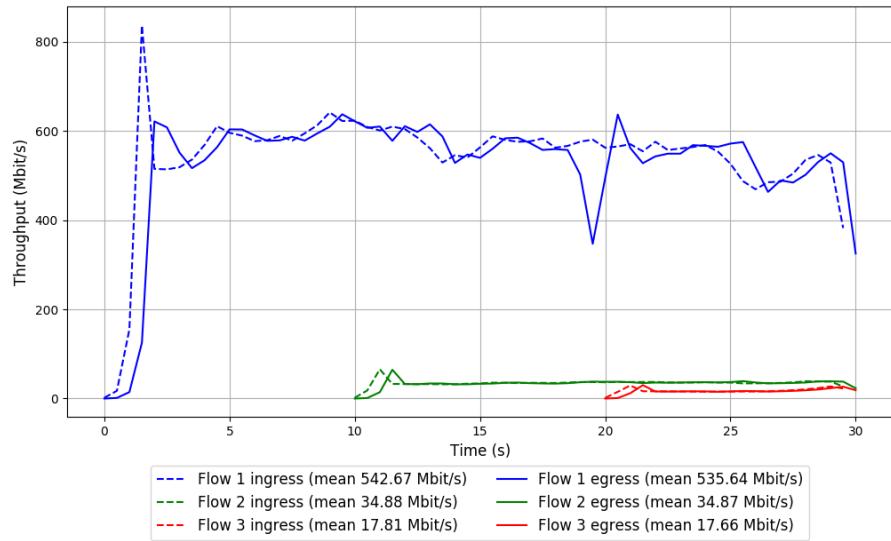


Run 10: Statistics of PCC-Allegro

```
Start at: 2018-06-07 20:02:05
End at: 2018-06-07 20:02:35
Local clock offset: -0.113 ms
Remote clock offset: -0.071 ms

# Below is generated by plot.py at 2018-06-07 21:57:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 564.55 Mbit/s
95th percentile per-packet one-way delay: 134.790 ms
Loss rate: 1.60%
-- Flow 1:
Average throughput: 535.64 Mbit/s
95th percentile per-packet one-way delay: 135.220 ms
Loss rate: 1.64%
-- Flow 2:
Average throughput: 34.87 Mbit/s
95th percentile per-packet one-way delay: 130.657 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 17.66 Mbit/s
95th percentile per-packet one-way delay: 133.569 ms
Loss rate: 1.94%
```

Run 10: Report of PCC-Allegro — Data Link

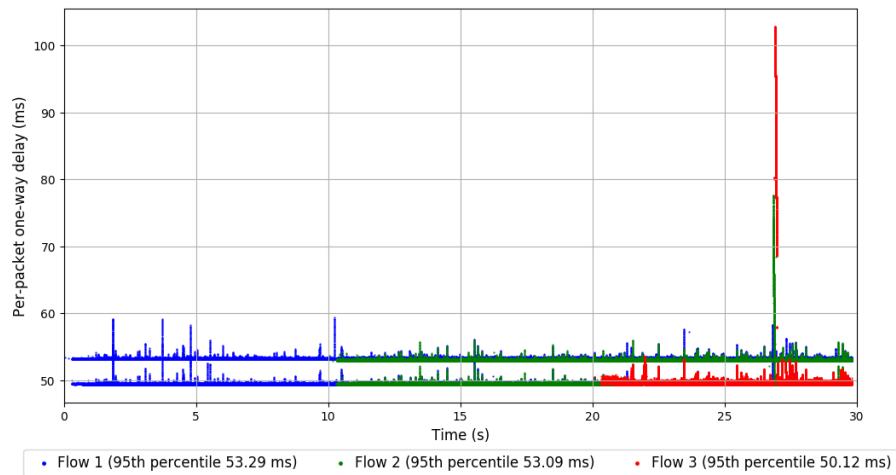
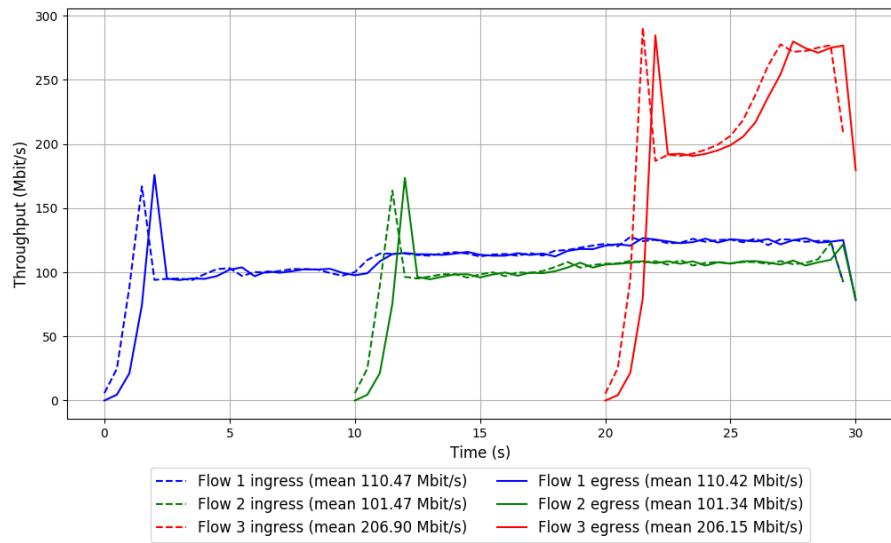


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2018-06-07 16:43:30
End at: 2018-06-07 16:44:00
Local clock offset: -0.29 ms
Remote clock offset: -0.521 ms

# Below is generated by plot.py at 2018-06-07 21:57:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 245.23 Mbit/s
95th percentile per-packet one-way delay: 53.260 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 110.42 Mbit/s
95th percentile per-packet one-way delay: 53.292 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 101.34 Mbit/s
95th percentile per-packet one-way delay: 53.088 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 206.15 Mbit/s
95th percentile per-packet one-way delay: 50.125 ms
Loss rate: 1.38%
```

Run 1: Report of PCC-Expr — Data Link

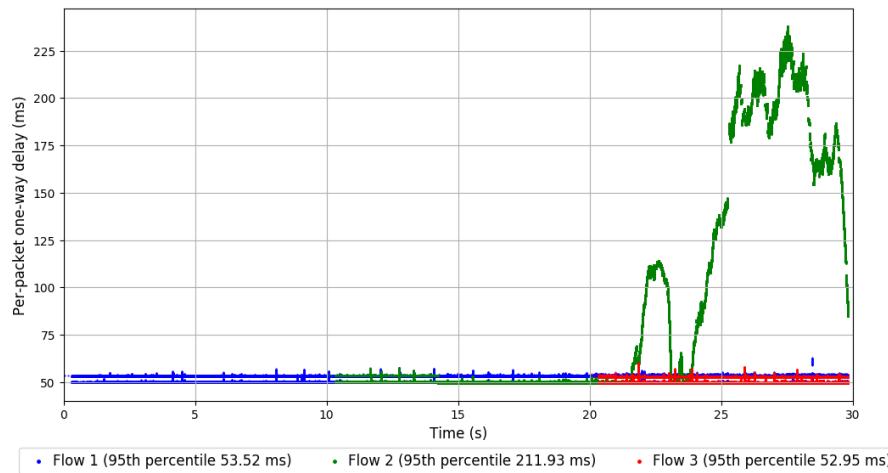
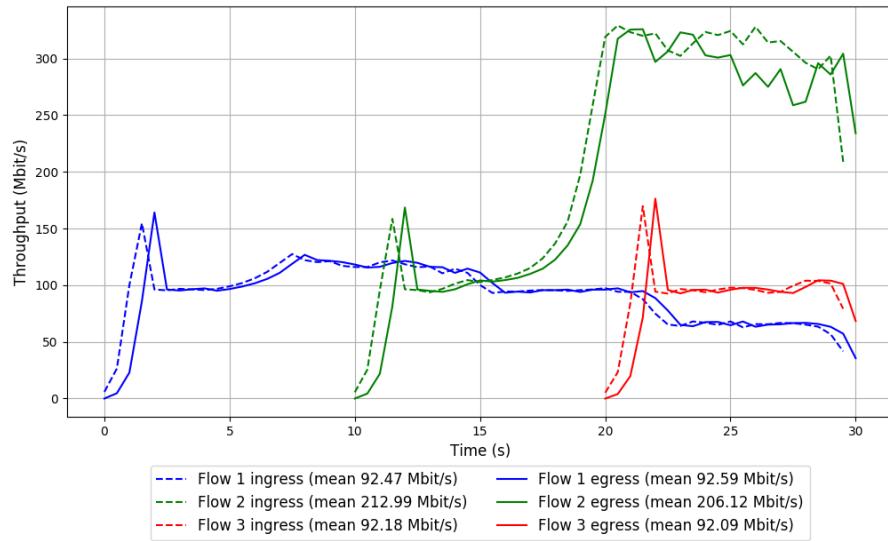


Run 2: Statistics of PCC-Expr

```
Start at: 2018-06-07 17:05:48
End at: 2018-06-07 17:06:18
Local clock offset: -0.002 ms
Remote clock offset: 0.285 ms

# Below is generated by plot.py at 2018-06-07 21:57:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 259.56 Mbit/s
95th percentile per-packet one-way delay: 205.037 ms
Loss rate: 2.21%
-- Flow 1:
Average throughput: 92.59 Mbit/s
95th percentile per-packet one-way delay: 53.521 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 206.12 Mbit/s
95th percentile per-packet one-way delay: 211.929 ms
Loss rate: 3.74%
-- Flow 3:
Average throughput: 92.09 Mbit/s
95th percentile per-packet one-way delay: 52.955 ms
Loss rate: 1.16%
```

Run 2: Report of PCC-Expr — Data Link

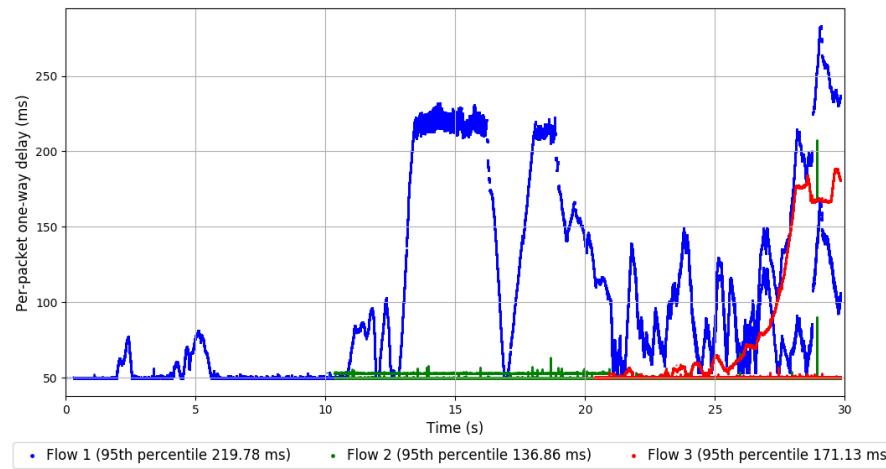
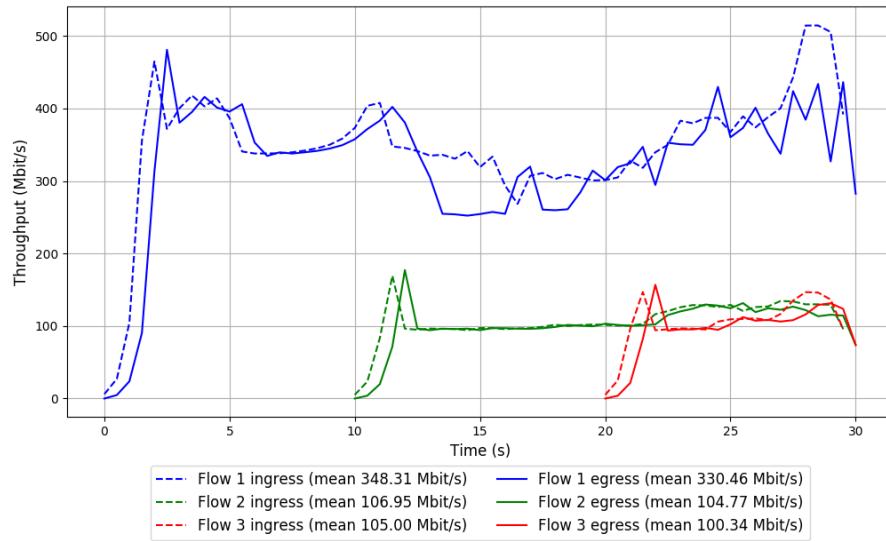


Run 3: Statistics of PCC-Expr

```
Start at: 2018-06-07 17:28:44
End at: 2018-06-07 17:29:14
Local clock offset: -0.164 ms
Remote clock offset: 0.298 ms

# Below is generated by plot.py at 2018-06-07 22:03:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 432.90 Mbit/s
95th percentile per-packet one-way delay: 217.237 ms
Loss rate: 4.99%
-- Flow 1:
Average throughput: 330.46 Mbit/s
95th percentile per-packet one-way delay: 219.777 ms
Loss rate: 5.45%
-- Flow 2:
Average throughput: 104.77 Mbit/s
95th percentile per-packet one-way delay: 136.860 ms
Loss rate: 2.55%
-- Flow 3:
Average throughput: 100.34 Mbit/s
95th percentile per-packet one-way delay: 171.131 ms
Loss rate: 5.42%
```

Run 3: Report of PCC-Expr — Data Link

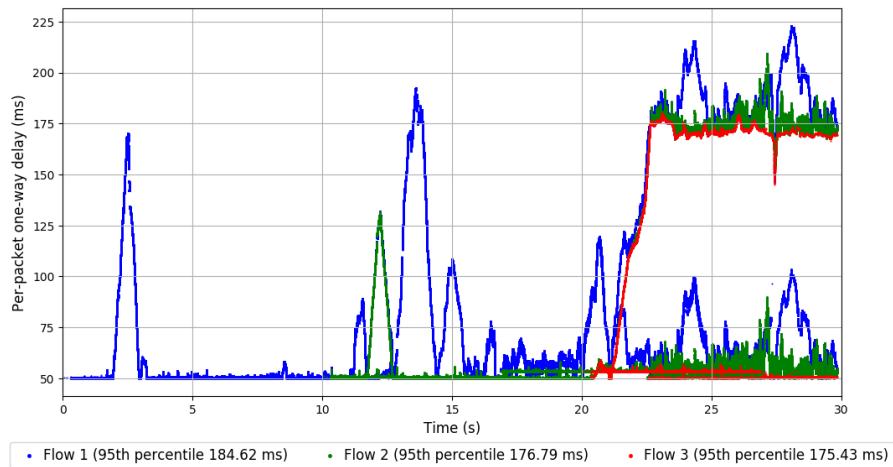
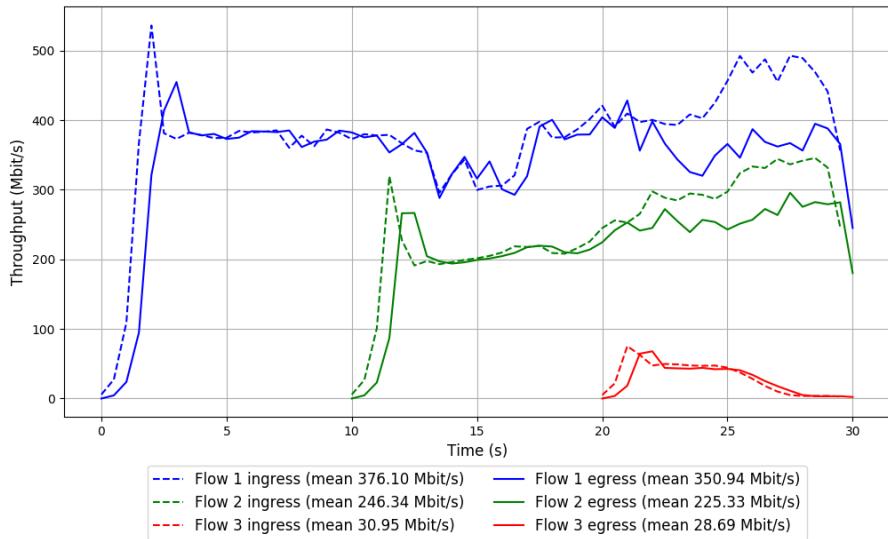


Run 4: Statistics of PCC-Expr

```
Start at: 2018-06-07 17:51:38
End at: 2018-06-07 17:52:08
Local clock offset: 0.373 ms
Remote clock offset: 0.505 ms

# Below is generated by plot.py at 2018-06-07 22:08:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 509.92 Mbit/s
95th percentile per-packet one-way delay: 180.668 ms
Loss rate: 7.63%
-- Flow 1:
Average throughput: 350.94 Mbit/s
95th percentile per-packet one-way delay: 184.617 ms
Loss rate: 7.01%
-- Flow 2:
Average throughput: 225.33 Mbit/s
95th percentile per-packet one-way delay: 176.791 ms
Loss rate: 9.00%
-- Flow 3:
Average throughput: 28.69 Mbit/s
95th percentile per-packet one-way delay: 175.430 ms
Loss rate: 8.30%
```

Run 4: Report of PCC-Expr — Data Link

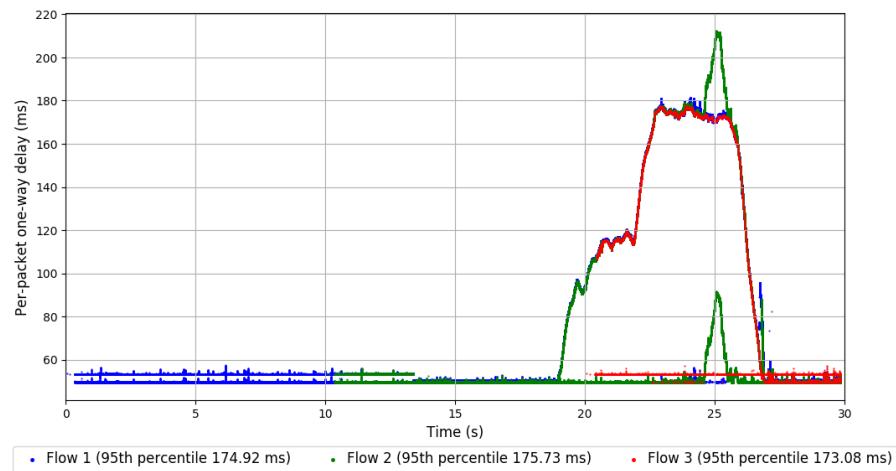
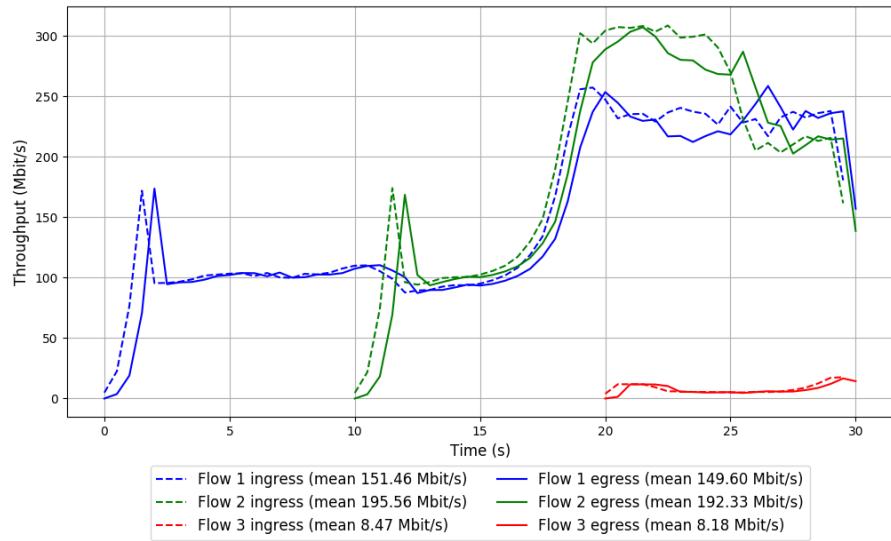


Run 5: Statistics of PCC-Expr

```
Start at: 2018-06-07 18:14:32
End at: 2018-06-07 18:15:02
Local clock offset: -0.385 ms
Remote clock offset: 0.553 ms

# Below is generated by plot.py at 2018-06-07 22:08:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 279.98 Mbit/s
95th percentile per-packet one-way delay: 175.177 ms
Loss rate: 1.88%
-- Flow 1:
Average throughput: 149.60 Mbit/s
95th percentile per-packet one-way delay: 174.924 ms
Loss rate: 1.58%
-- Flow 2:
Average throughput: 192.33 Mbit/s
95th percentile per-packet one-way delay: 175.731 ms
Loss rate: 2.17%
-- Flow 3:
Average throughput: 8.18 Mbit/s
95th percentile per-packet one-way delay: 173.076 ms
Loss rate: 4.42%
```

Run 5: Report of PCC-Expr — Data Link

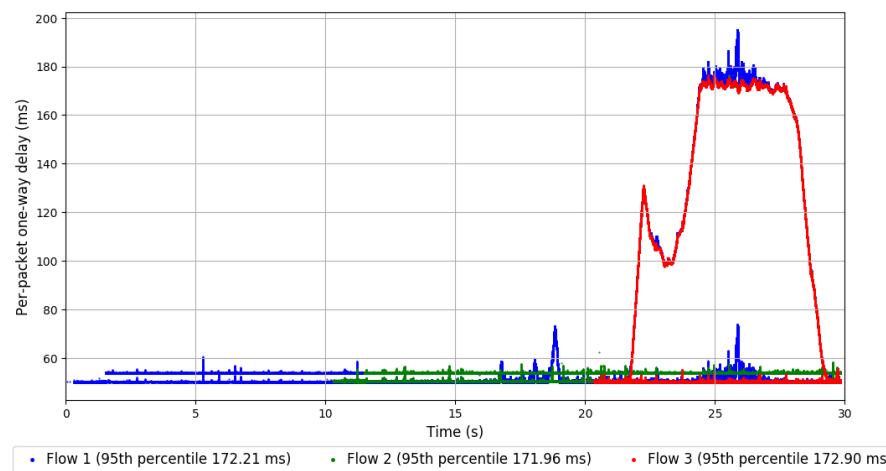
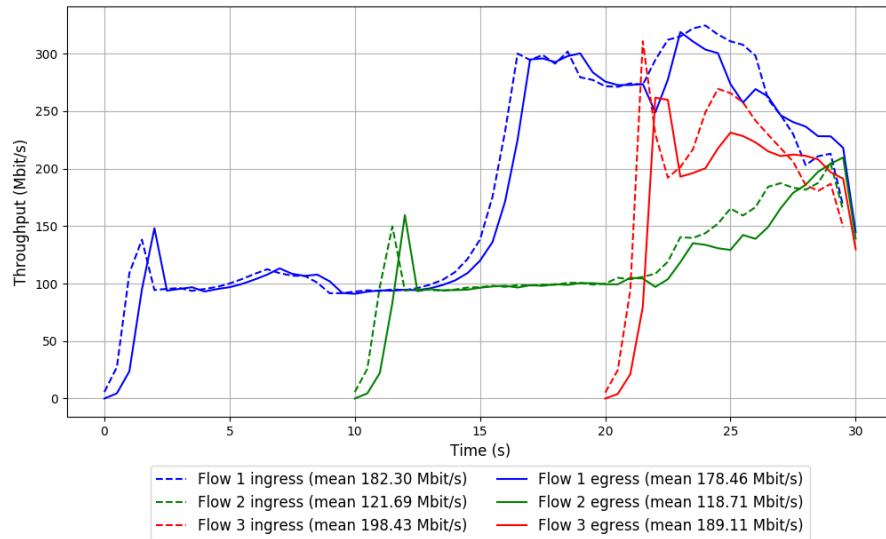


Run 6: Statistics of PCC-Expr

```
Start at: 2018-06-07 18:37:24
End at: 2018-06-07 18:37:54
Local clock offset: 0.188 ms
Remote clock offset: 0.456 ms

# Below is generated by plot.py at 2018-06-07 22:08:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 319.23 Mbit/s
95th percentile per-packet one-way delay: 172.335 ms
Loss rate: 3.22%
-- Flow 1:
Average throughput: 178.46 Mbit/s
95th percentile per-packet one-way delay: 172.212 ms
Loss rate: 2.44%
-- Flow 2:
Average throughput: 118.71 Mbit/s
95th percentile per-packet one-way delay: 171.963 ms
Loss rate: 2.97%
-- Flow 3:
Average throughput: 189.11 Mbit/s
95th percentile per-packet one-way delay: 172.902 ms
Loss rate: 5.70%
```

Run 6: Report of PCC-Expr — Data Link

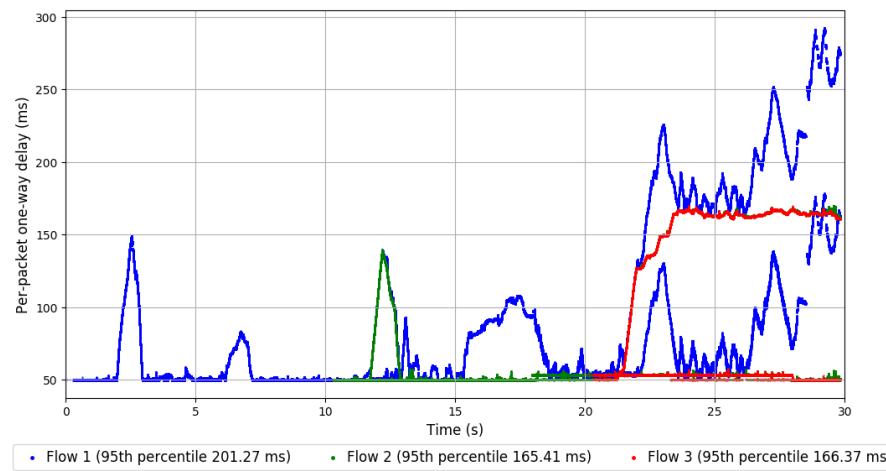
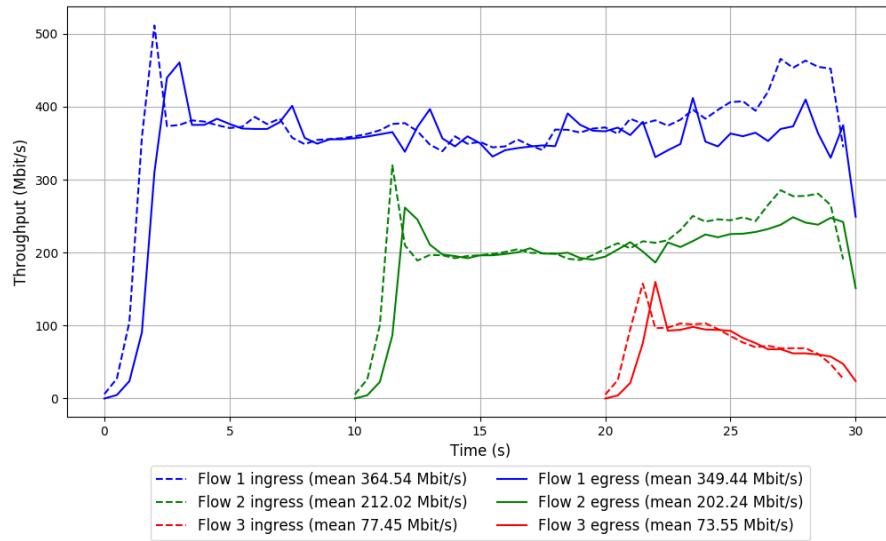


Run 7: Statistics of PCC-Expr

```
Start at: 2018-06-07 19:00:37
End at: 2018-06-07 19:01:07
Local clock offset: -0.17 ms
Remote clock offset: -0.167 ms

# Below is generated by plot.py at 2018-06-07 22:13:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 507.82 Mbit/s
95th percentile per-packet one-way delay: 183.762 ms
Loss rate: 4.71%
-- Flow 1:
Average throughput: 349.44 Mbit/s
95th percentile per-packet one-way delay: 201.267 ms
Loss rate: 4.47%
-- Flow 2:
Average throughput: 202.24 Mbit/s
95th percentile per-packet one-way delay: 165.412 ms
Loss rate: 5.10%
-- Flow 3:
Average throughput: 73.55 Mbit/s
95th percentile per-packet one-way delay: 166.371 ms
Loss rate: 6.05%
```

Run 7: Report of PCC-Expr — Data Link

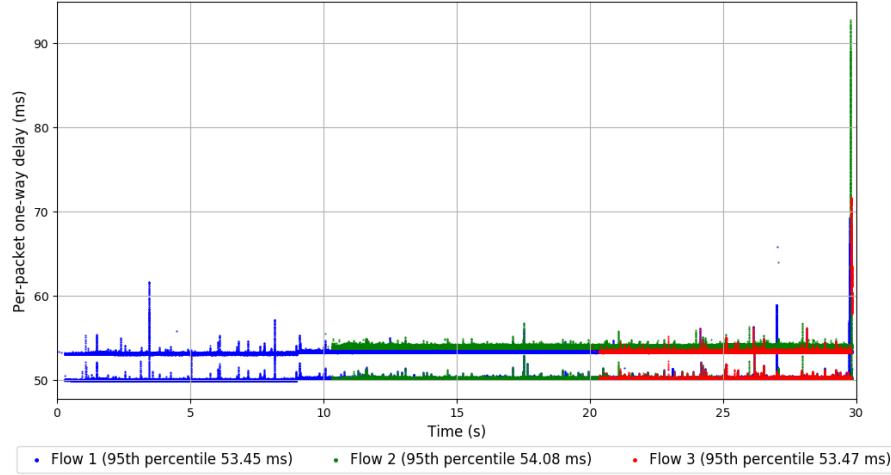
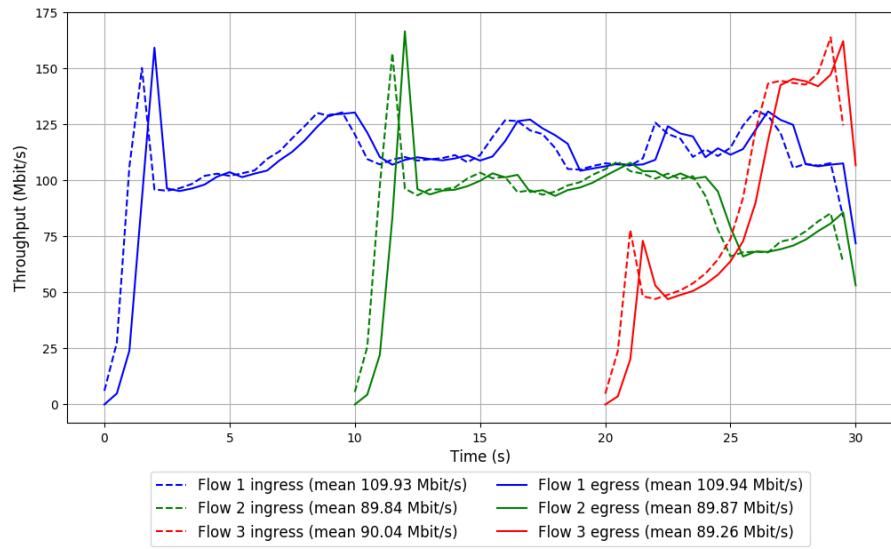


Run 8: Statistics of PCC-Expr

```
Start at: 2018-06-07 19:23:36
End at: 2018-06-07 19:24:06
Local clock offset: -0.009 ms
Remote clock offset: -0.341 ms

# Below is generated by plot.py at 2018-06-07 22:13:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 198.87 Mbit/s
95th percentile per-packet one-way delay: 53.983 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 109.94 Mbit/s
95th percentile per-packet one-way delay: 53.454 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 89.87 Mbit/s
95th percentile per-packet one-way delay: 54.083 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 89.26 Mbit/s
95th percentile per-packet one-way delay: 53.473 ms
Loss rate: 1.95%
```

Run 8: Report of PCC-Expr — Data Link

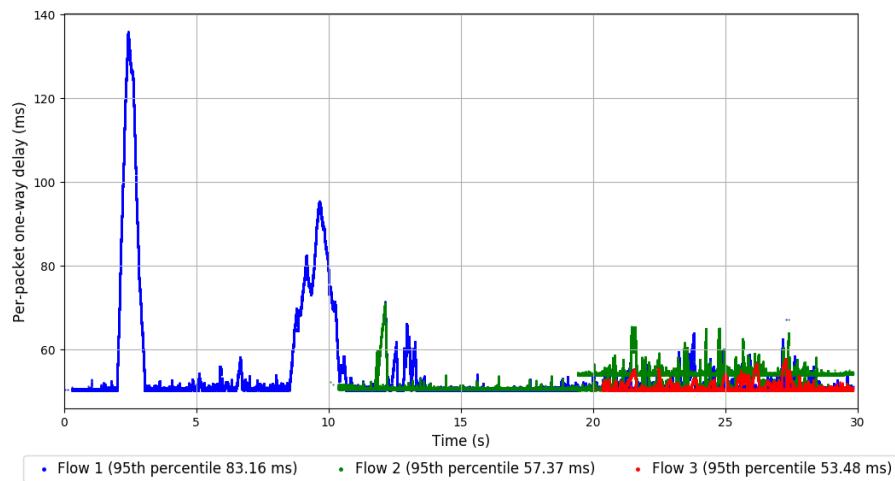
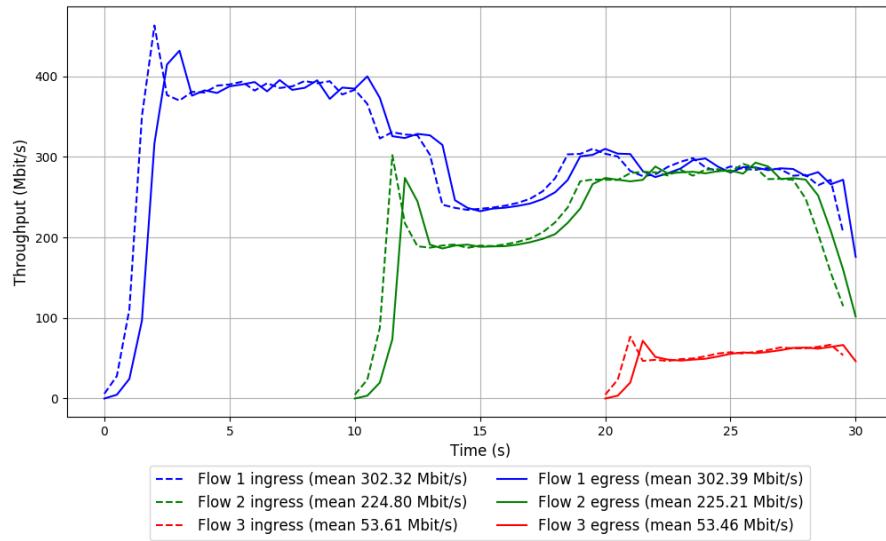


Run 9: Statistics of PCC-Expr

```
Start at: 2018-06-07 19:45:46
End at: 2018-06-07 19:46:16
Local clock offset: 0.053 ms
Remote clock offset: -0.535 ms

# Below is generated by plot.py at 2018-06-07 22:13:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 469.41 Mbit/s
95th percentile per-packet one-way delay: 74.049 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 302.39 Mbit/s
95th percentile per-packet one-way delay: 83.156 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 225.21 Mbit/s
95th percentile per-packet one-way delay: 57.367 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 53.46 Mbit/s
95th percentile per-packet one-way delay: 53.477 ms
Loss rate: 1.36%
```

Run 9: Report of PCC-Expr — Data Link

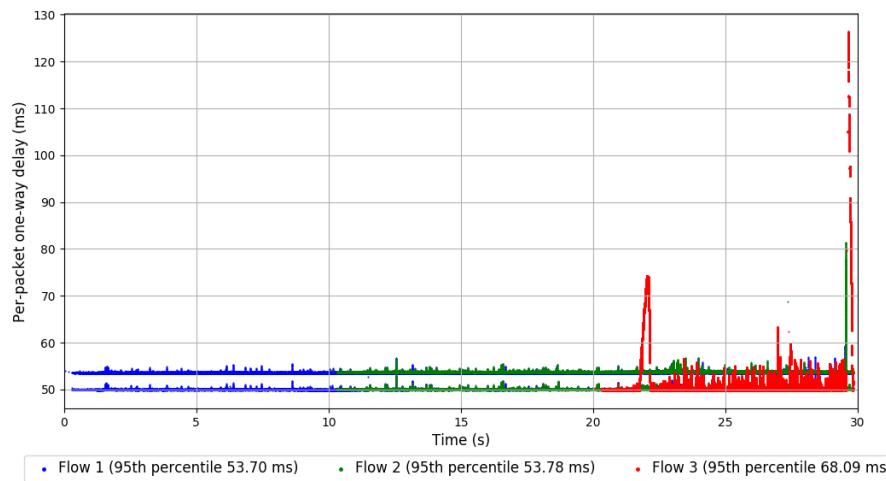
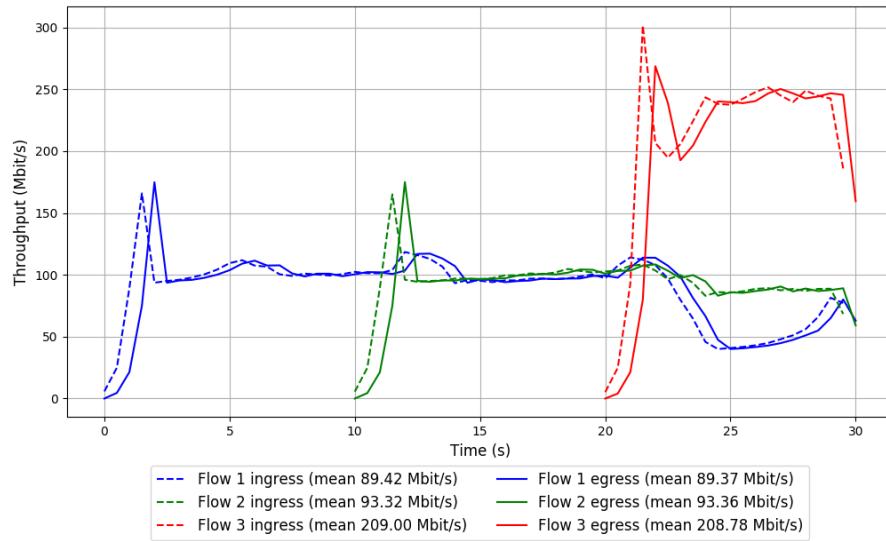


Run 10: Statistics of PCC-Expr

```
Start at: 2018-06-07 20:08:37
End at: 2018-06-07 20:09:07
Local clock offset: -0.11 ms
Remote clock offset: -0.084 ms

# Below is generated by plot.py at 2018-06-07 22:13:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 219.78 Mbit/s
95th percentile per-packet one-way delay: 53.968 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 89.37 Mbit/s
95th percentile per-packet one-way delay: 53.699 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 93.36 Mbit/s
95th percentile per-packet one-way delay: 53.781 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 208.78 Mbit/s
95th percentile per-packet one-way delay: 68.087 ms
Loss rate: 1.18%
```

Run 10: Report of PCC-Expr — Data Link

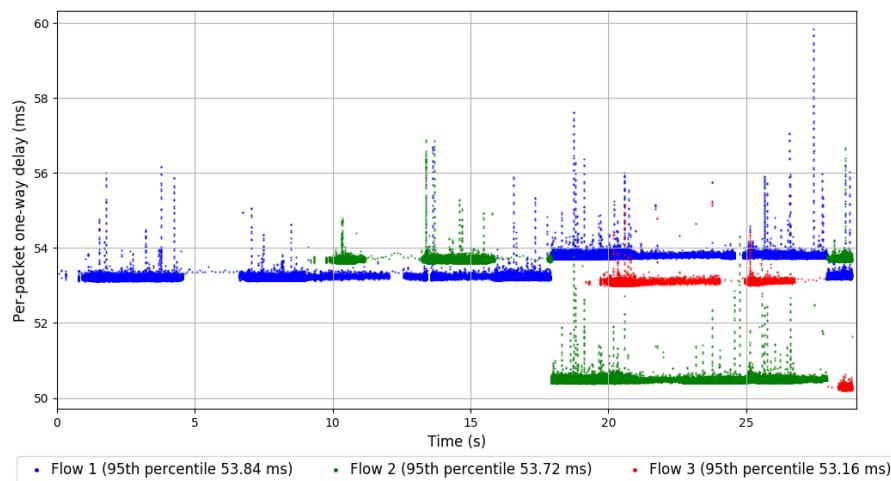
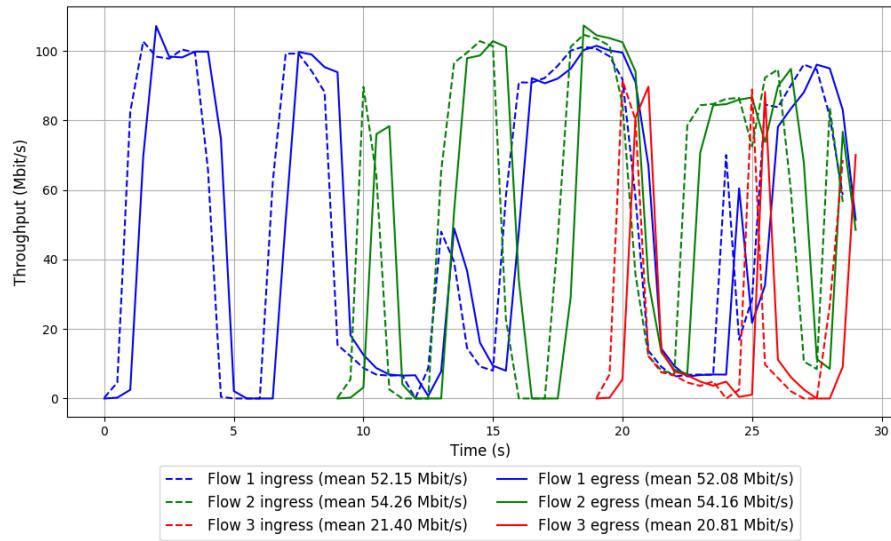


```
Run 1: Statistics of QUIC Cubic
```

```
Start at: 2018-06-07 16:51:44
End at: 2018-06-07 16:52:14
Local clock offset: -0.036 ms
Remote clock offset: -0.841 ms

# Below is generated by plot.py at 2018-06-07 22:13:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.28 Mbit/s
95th percentile per-packet one-way delay: 53.816 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 52.08 Mbit/s
95th percentile per-packet one-way delay: 53.839 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 54.16 Mbit/s
95th percentile per-packet one-way delay: 53.721 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 20.81 Mbit/s
95th percentile per-packet one-way delay: 53.159 ms
Loss rate: 3.83%
```

Run 1: Report of QUIC Cubic — Data Link

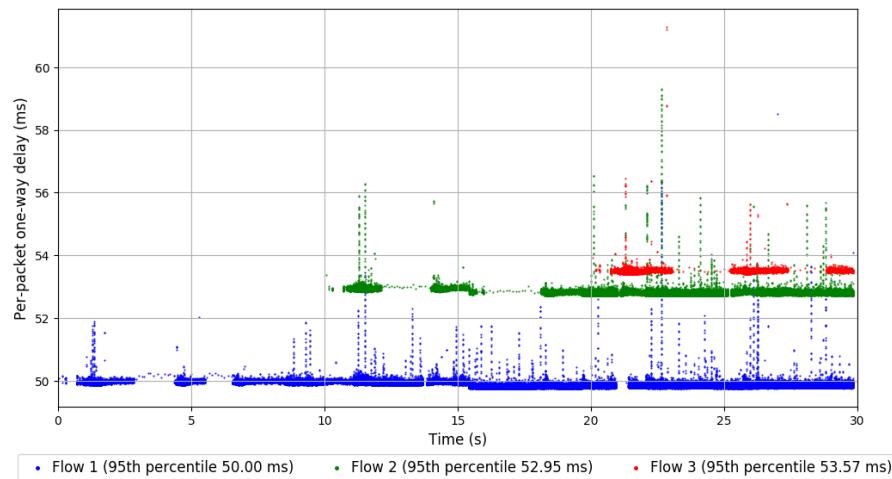
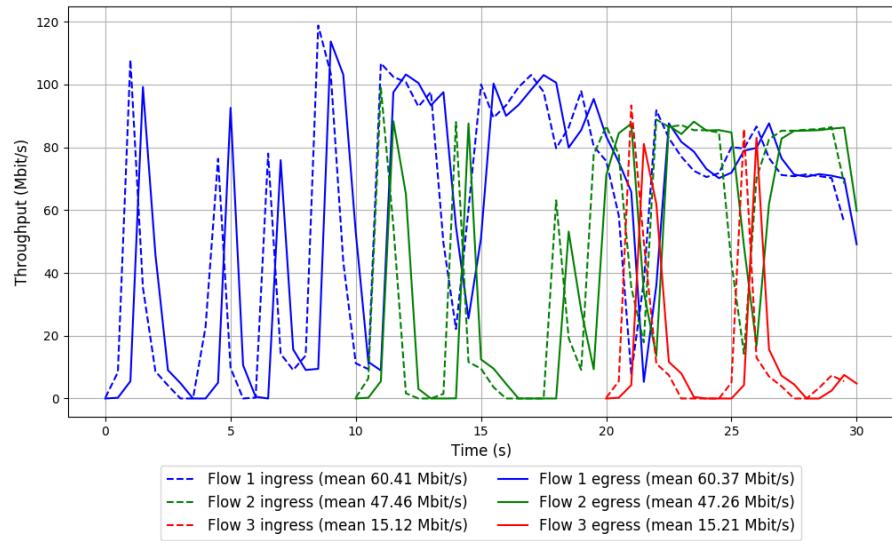


Run 2: Statistics of QUIC Cubic

```
Start at: 2018-06-07 17:14:07
End at: 2018-06-07 17:14:37
Local clock offset: -0.13 ms
Remote clock offset: 0.259 ms

# Below is generated by plot.py at 2018-06-07 22:13:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.74 Mbit/s
95th percentile per-packet one-way delay: 53.421 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 60.37 Mbit/s
95th percentile per-packet one-way delay: 50.002 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 47.26 Mbit/s
95th percentile per-packet one-way delay: 52.951 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 15.21 Mbit/s
95th percentile per-packet one-way delay: 53.574 ms
Loss rate: 0.48%
```

Run 2: Report of QUIC Cubic — Data Link

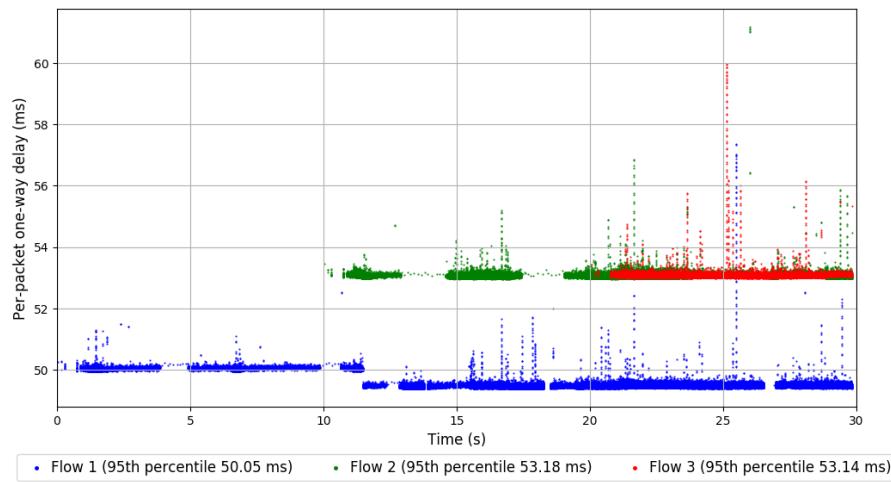
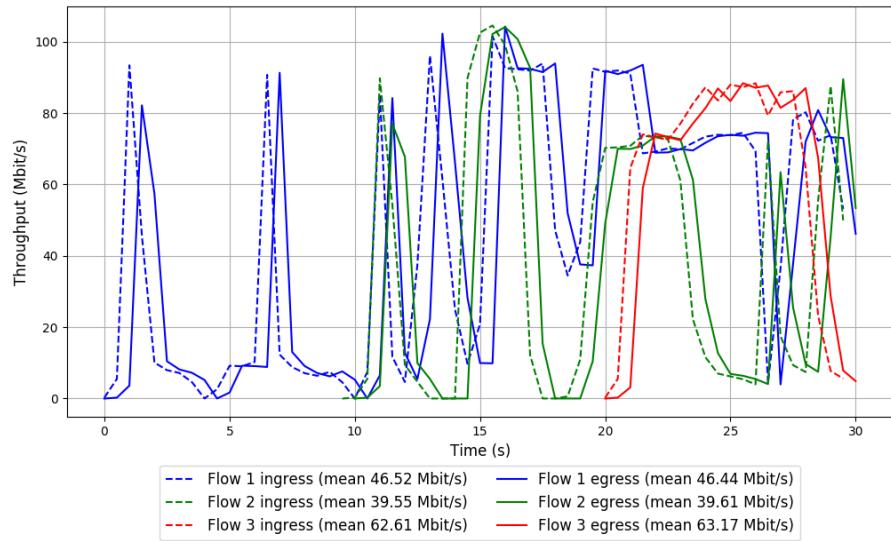


Run 3: Statistics of QUIC Cubic

```
Start at: 2018-06-07 17:37:14
End at: 2018-06-07 17:37:44
Local clock offset: -0.128 ms
Remote clock offset: 0.652 ms

# Below is generated by plot.py at 2018-06-07 22:13:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.49 Mbit/s
95th percentile per-packet one-way delay: 53.131 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 46.44 Mbit/s
95th percentile per-packet one-way delay: 50.047 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 39.61 Mbit/s
95th percentile per-packet one-way delay: 53.181 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 63.17 Mbit/s
95th percentile per-packet one-way delay: 53.141 ms
Loss rate: 0.12%
```

Run 3: Report of QUIC Cubic — Data Link

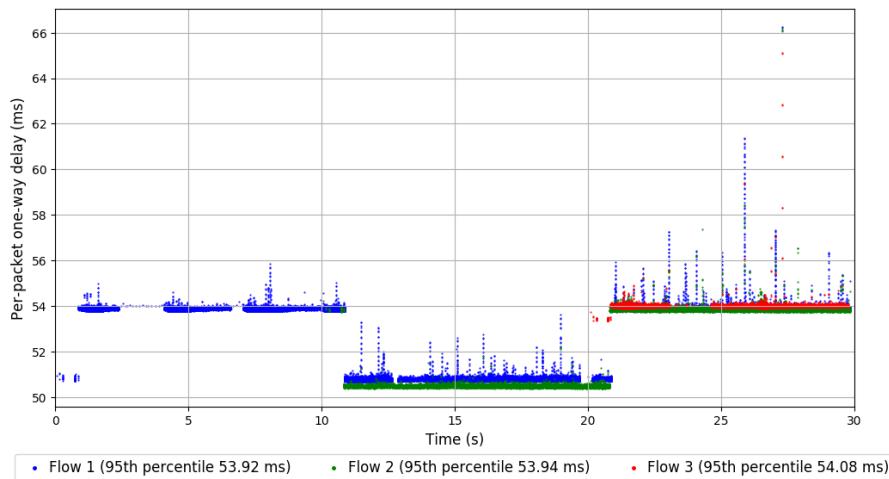
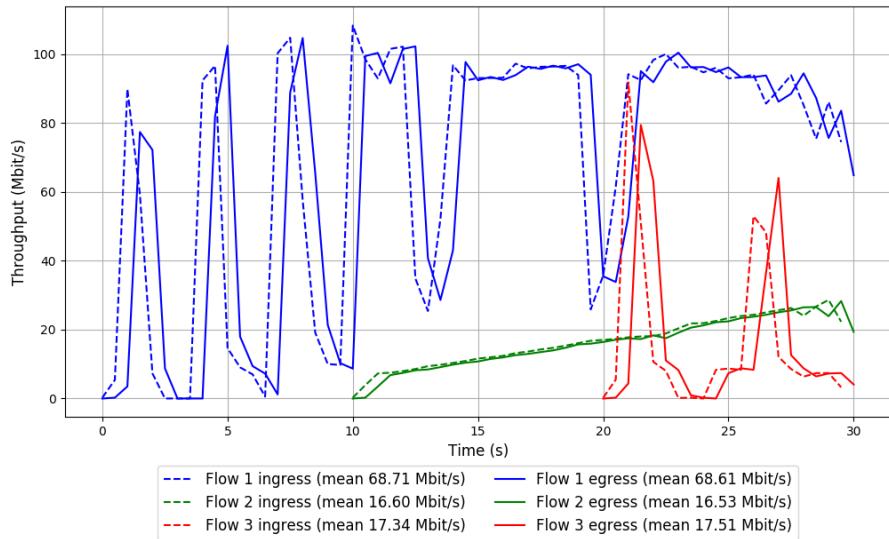


Run 4: Statistics of QUIC Cubic

```
Start at: 2018-06-07 18:00:14
End at: 2018-06-07 18:00:44
Local clock offset: 0.205 ms
Remote clock offset: 0.381 ms

# Below is generated by plot.py at 2018-06-07 22:13:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.28 Mbit/s
95th percentile per-packet one-way delay: 53.978 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 68.61 Mbit/s
95th percentile per-packet one-way delay: 53.920 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 16.53 Mbit/s
95th percentile per-packet one-way delay: 53.941 ms
Loss rate: 0.92%
-- Flow 3:
Average throughput: 17.51 Mbit/s
95th percentile per-packet one-way delay: 54.076 ms
Loss rate: 0.00%
```

Run 4: Report of QUIC Cubic — Data Link

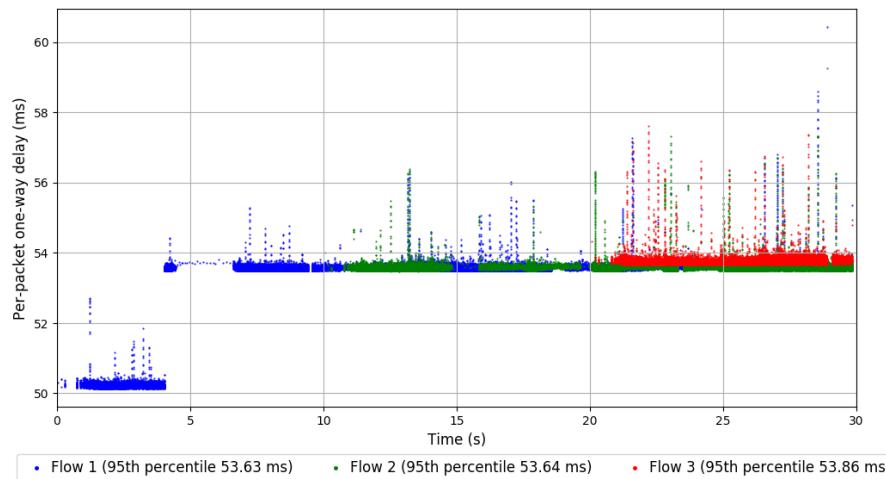
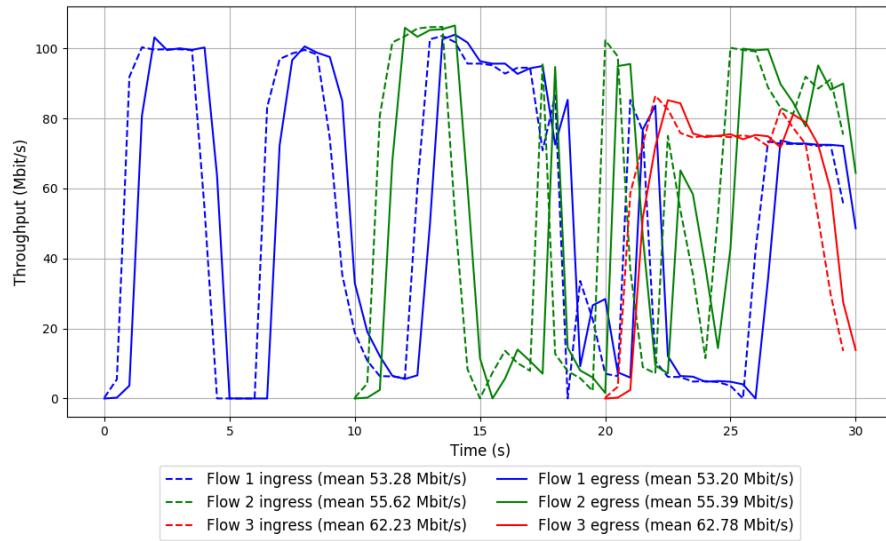


Run 5: Statistics of QUIC Cubic

```
Start at: 2018-06-07 18:22:51
End at: 2018-06-07 18:23:21
Local clock offset: -0.2 ms
Remote clock offset: 0.485 ms

# Below is generated by plot.py at 2018-06-07 22:13:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 110.56 Mbit/s
95th percentile per-packet one-way delay: 53.777 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 53.20 Mbit/s
95th percentile per-packet one-way delay: 53.633 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 55.39 Mbit/s
95th percentile per-packet one-way delay: 53.639 ms
Loss rate: 0.93%
-- Flow 3:
Average throughput: 62.78 Mbit/s
95th percentile per-packet one-way delay: 53.863 ms
Loss rate: 0.16%
```

Run 5: Report of QUIC Cubic — Data Link

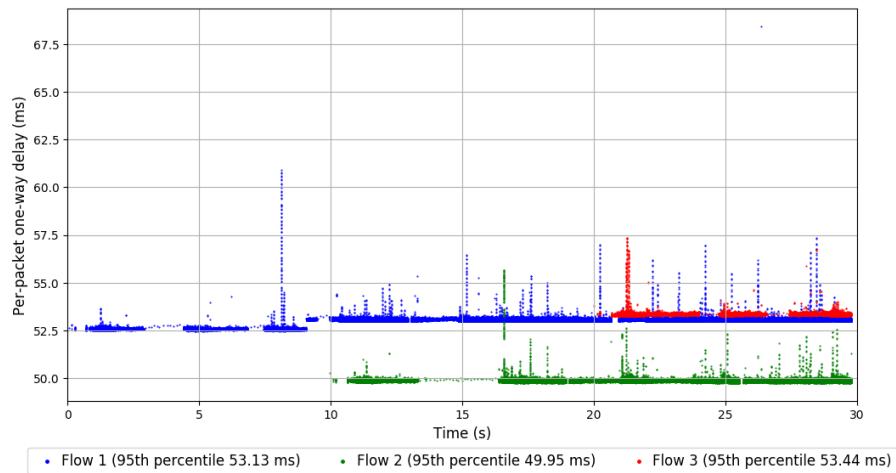
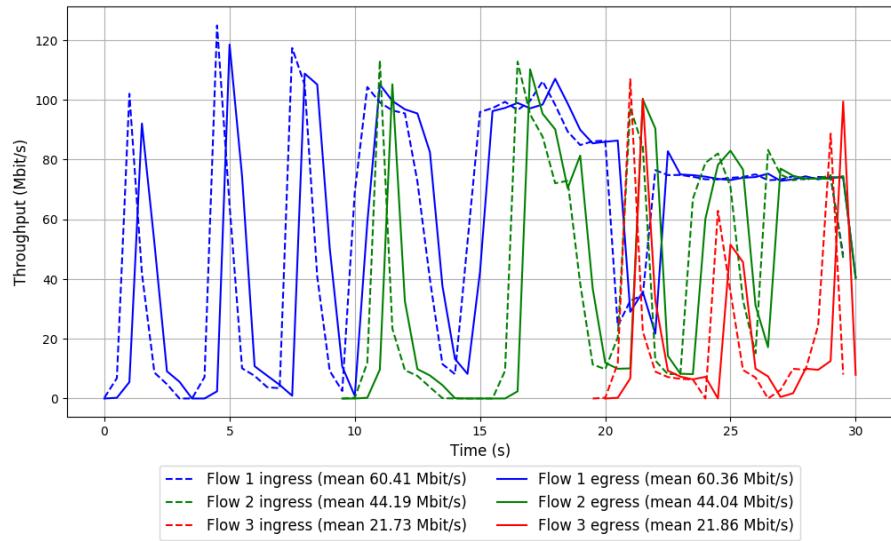


Run 6: Statistics of QUIC Cubic

```
Start at: 2018-06-07 18:45:46
End at: 2018-06-07 18:46:16
Local clock offset: -0.219 ms
Remote clock offset: 0.294 ms

# Below is generated by plot.py at 2018-06-07 22:13:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.88 Mbit/s
95th percentile per-packet one-way delay: 53.316 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 60.36 Mbit/s
95th percentile per-packet one-way delay: 53.126 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 44.04 Mbit/s
95th percentile per-packet one-way delay: 49.952 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 21.86 Mbit/s
95th percentile per-packet one-way delay: 53.444 ms
Loss rate: 0.51%
```

Run 6: Report of QUIC Cubic — Data Link

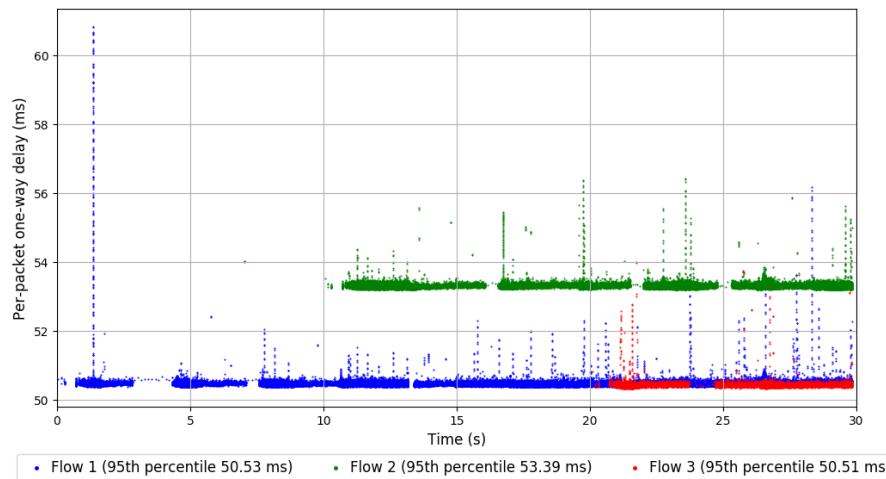
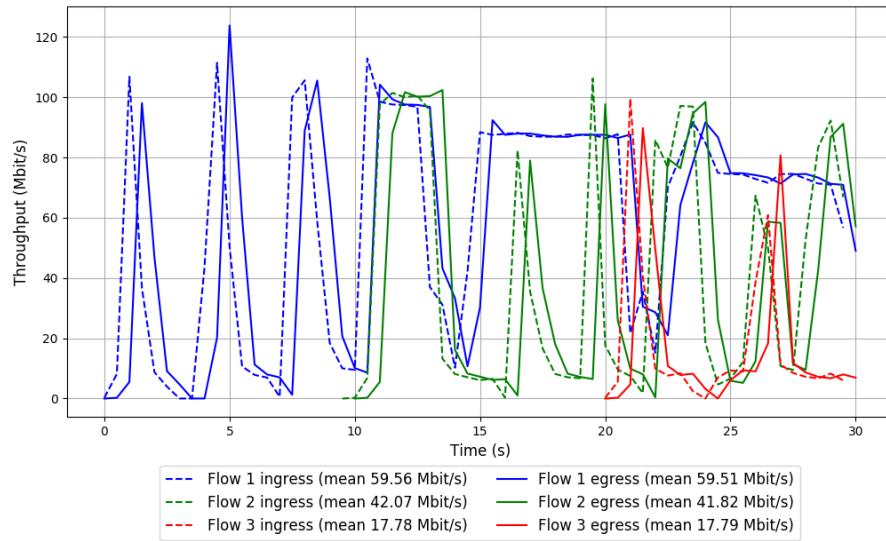


Run 7: Statistics of QUIC Cubic

```
Start at: 2018-06-07 19:09:15
End at: 2018-06-07 19:09:45
Local clock offset: 0.221 ms
Remote clock offset: -0.27 ms

# Below is generated by plot.py at 2018-06-07 22:13:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.11 Mbit/s
95th percentile per-packet one-way delay: 53.343 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 59.51 Mbit/s
95th percentile per-packet one-way delay: 50.532 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 41.82 Mbit/s
95th percentile per-packet one-way delay: 53.393 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 17.79 Mbit/s
95th percentile per-packet one-way delay: 50.510 ms
Loss rate: 0.03%
```

Run 7: Report of QUIC Cubic — Data Link

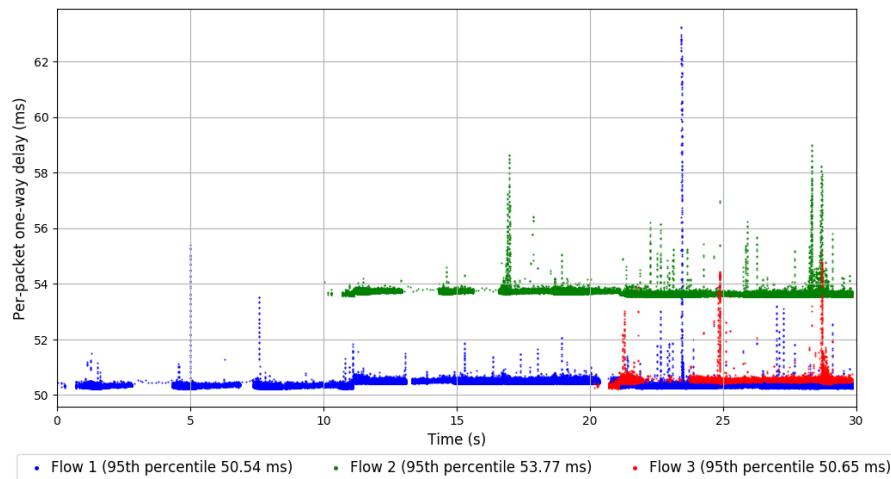
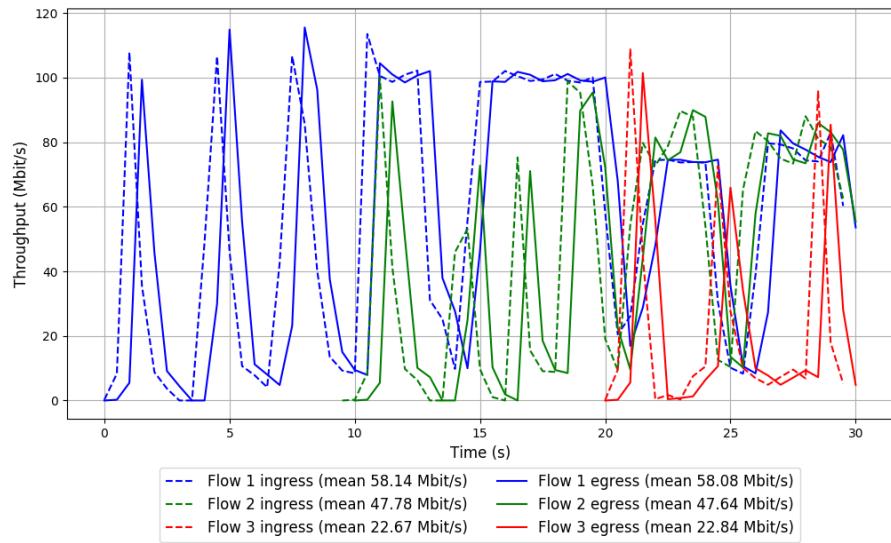


Run 8: Statistics of QUIC Cubic

```
Start at: 2018-06-07 19:31:54
End at: 2018-06-07 19:32:24
Local clock offset: -0.12 ms
Remote clock offset: -0.85 ms

# Below is generated by plot.py at 2018-06-07 22:13:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.24 Mbit/s
95th percentile per-packet one-way delay: 53.720 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 58.08 Mbit/s
95th percentile per-packet one-way delay: 50.542 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 47.64 Mbit/s
95th percentile per-packet one-way delay: 53.769 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 22.84 Mbit/s
95th percentile per-packet one-way delay: 50.646 ms
Loss rate: 0.28%
```

Run 8: Report of QUIC Cubic — Data Link

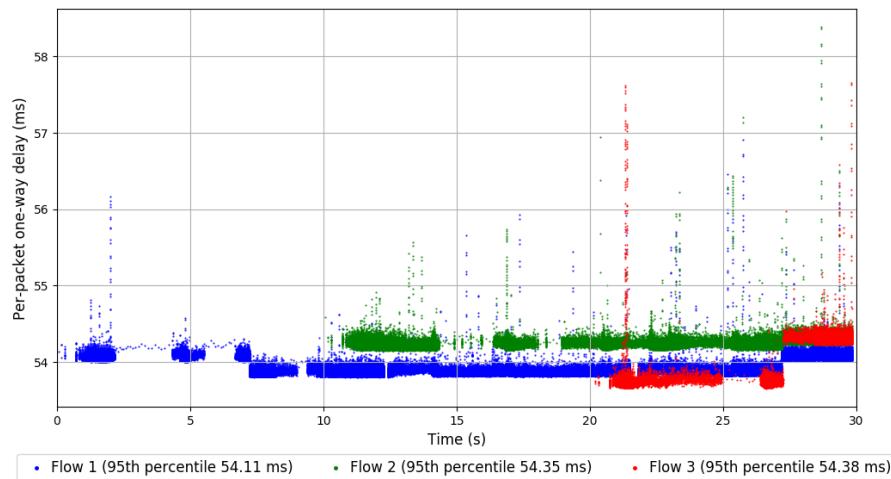
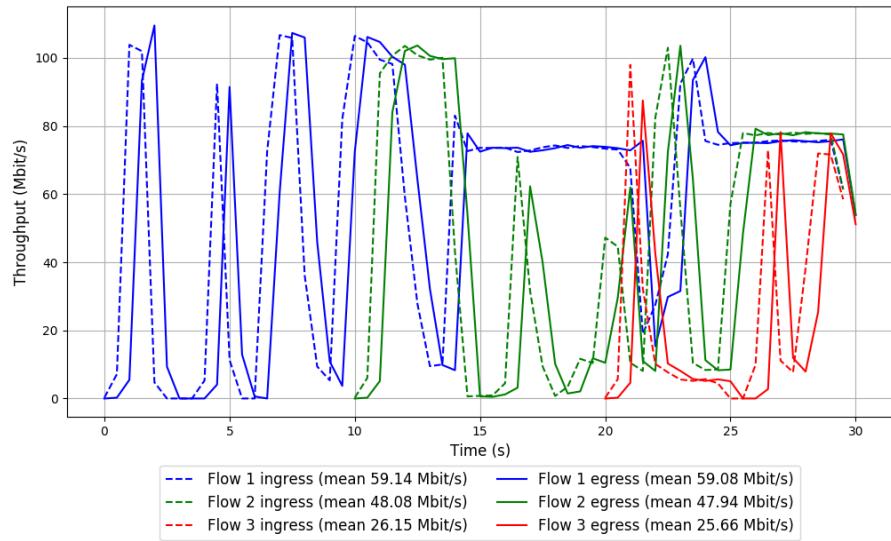


Run 9: Statistics of QUIC Cubic

```
Start at: 2018-06-07 19:54:18
End at: 2018-06-07 19:54:48
Local clock offset: 0.03 ms
Remote clock offset: -0.534 ms

# Below is generated by plot.py at 2018-06-07 22:13:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 99.34 Mbit/s
95th percentile per-packet one-way delay: 54.321 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 59.08 Mbit/s
95th percentile per-packet one-way delay: 54.110 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 47.94 Mbit/s
95th percentile per-packet one-way delay: 54.351 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 25.66 Mbit/s
95th percentile per-packet one-way delay: 54.379 ms
Loss rate: 2.93%
```

Run 9: Report of QUIC Cubic — Data Link

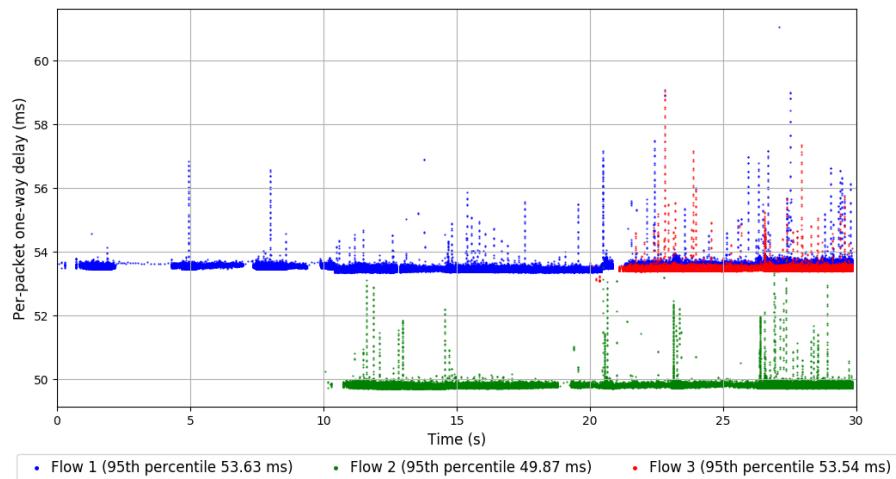
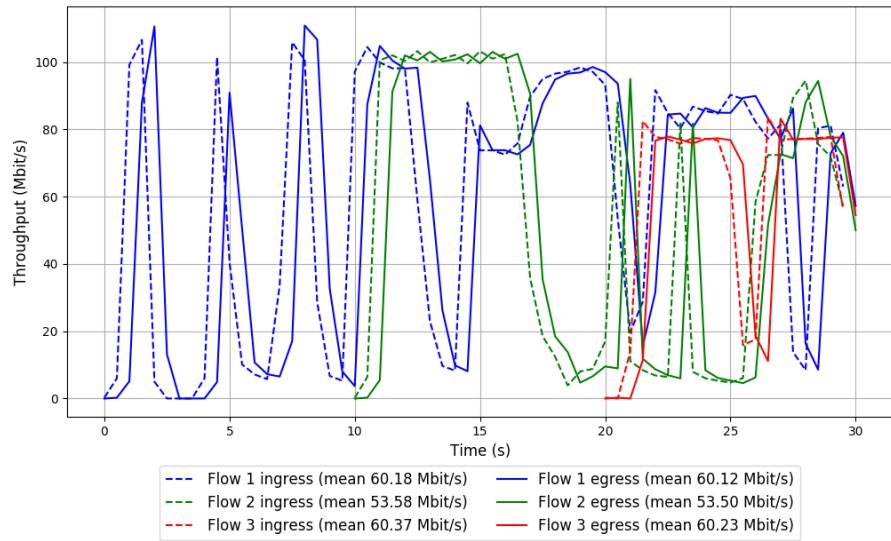


Run 10: Statistics of QUIC Cubic

```
Start at: 2018-06-07 20:16:55
End at: 2018-06-07 20:17:25
Local clock offset: 0.009 ms
Remote clock offset: 0.134 ms

# Below is generated by plot.py at 2018-06-07 22:13:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 115.35 Mbit/s
95th percentile per-packet one-way delay: 53.595 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 60.12 Mbit/s
95th percentile per-packet one-way delay: 53.627 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 53.50 Mbit/s
95th percentile per-packet one-way delay: 49.874 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 60.23 Mbit/s
95th percentile per-packet one-way delay: 53.541 ms
Loss rate: 0.85%
```

Run 10: Report of QUIC Cubic — Data Link

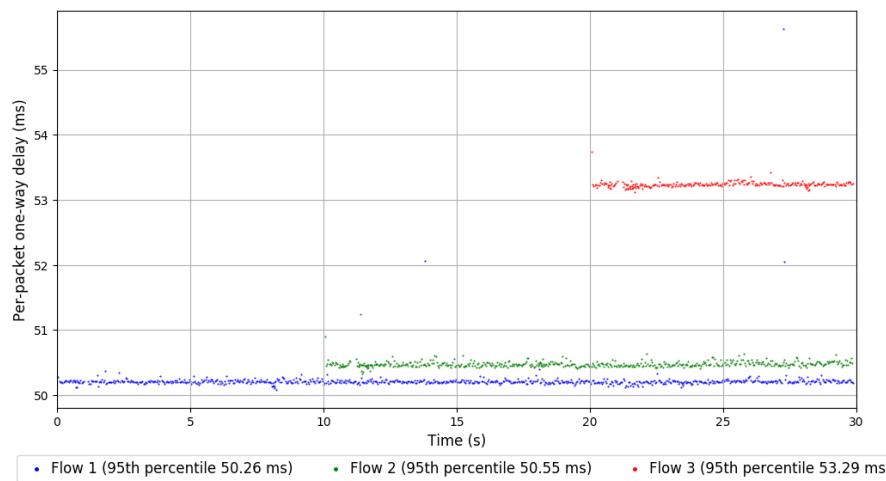
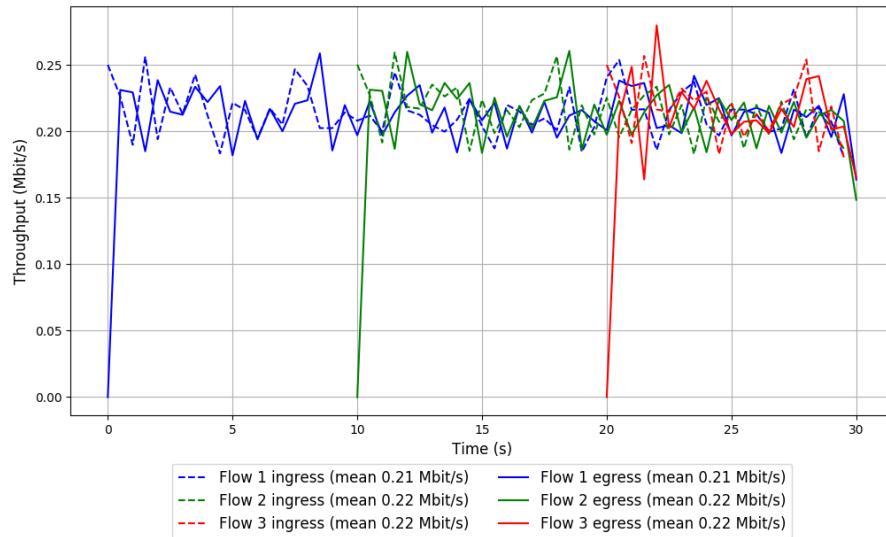


```
Run 1: Statistics of SCReAM

Start at: 2018-06-07 16:50:35
End at: 2018-06-07 16:51:05
Local clock offset: -0.277 ms
Remote clock offset: -0.953 ms

# Below is generated by plot.py at 2018-06-07 22:13:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.250 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.260 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.550 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.293 ms
Loss rate: 1.08%
```

## Run 1: Report of SCReAM — Data Link

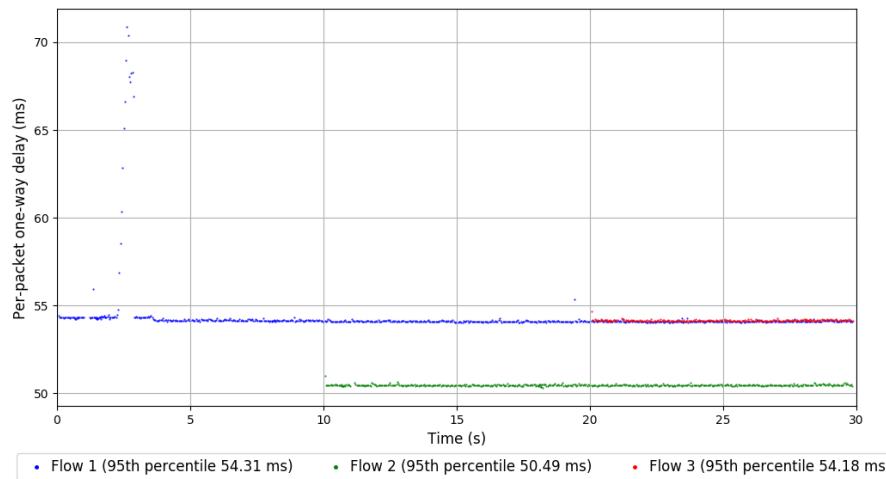
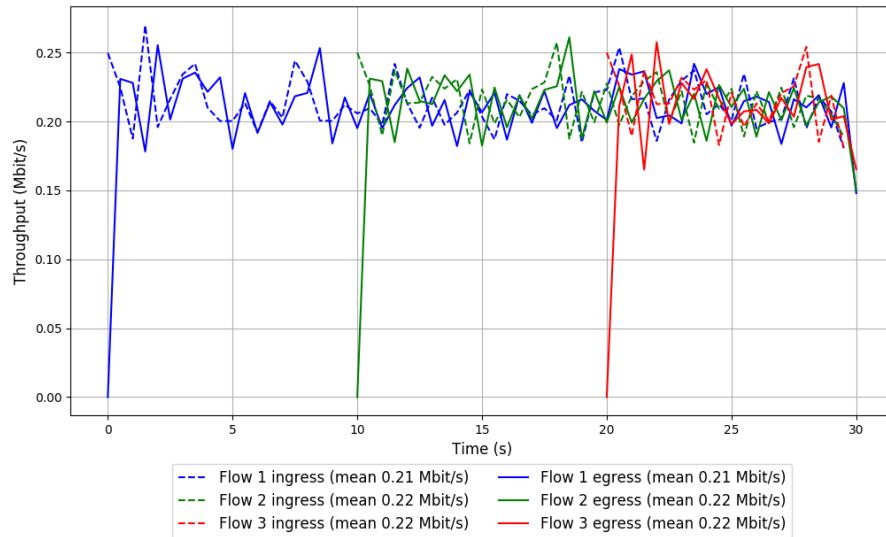


Run 2: Statistics of SCReAM

```
Start at: 2018-06-07 17:12:59
End at: 2018-06-07 17:13:29
Local clock offset: 0.363 ms
Remote clock offset: 0.108 ms

# Below is generated by plot.py at 2018-06-07 22:13:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 54.284 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.314 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.493 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 54.183 ms
Loss rate: 1.09%
```

Run 2: Report of SCReAM — Data Link

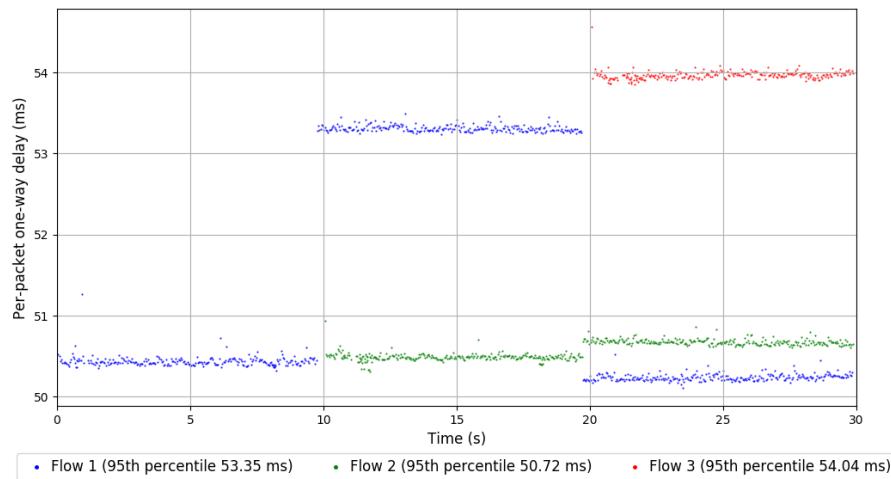
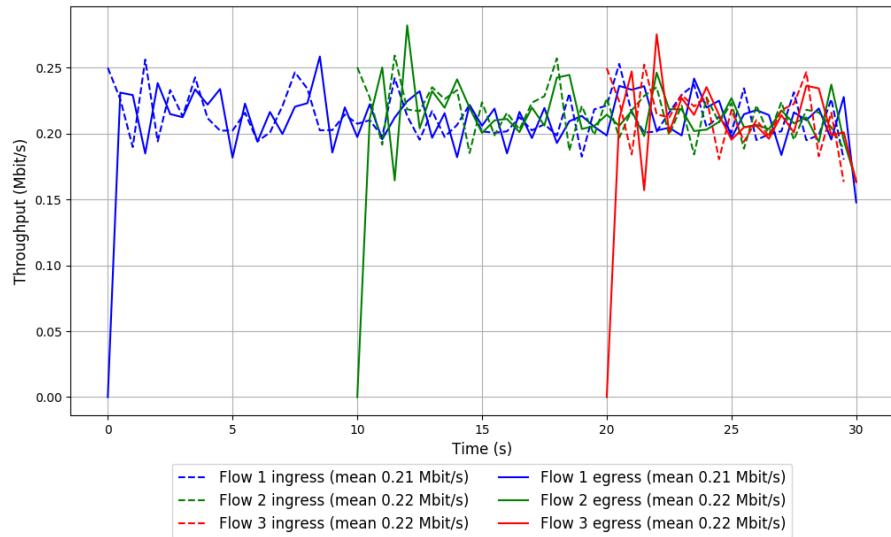


Run 3: Statistics of SCReAM

```
Start at: 2018-06-07 17:36:05
End at: 2018-06-07 17:36:35
Local clock offset: -0.201 ms
Remote clock offset: -0.035 ms

# Below is generated by plot.py at 2018-06-07 22:13:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.990 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.349 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.717 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 54.041 ms
Loss rate: 0.74%
```

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

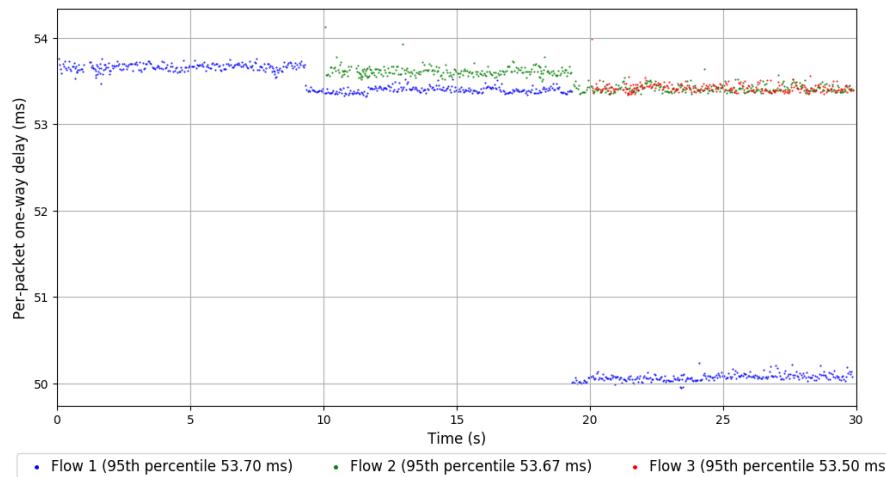
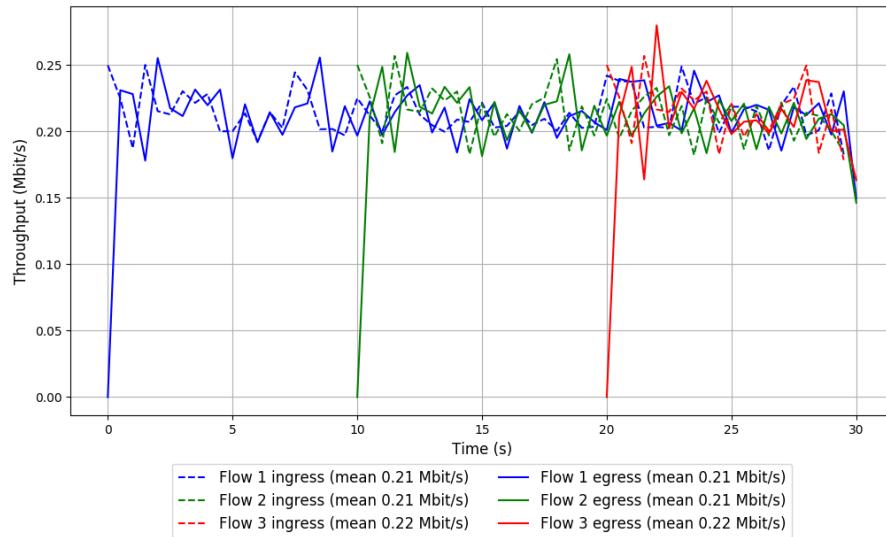


Run 4: Statistics of SCReAM

```
Start at: 2018-06-07 17:59:06
End at: 2018-06-07 17:59:36
Local clock offset: -0.091 ms
Remote clock offset: 0.612 ms

# Below is generated by plot.py at 2018-06-07 22:13:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.692 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.702 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.670 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.501 ms
Loss rate: 1.07%
```

## Run 4: Report of SCReAM — Data Link

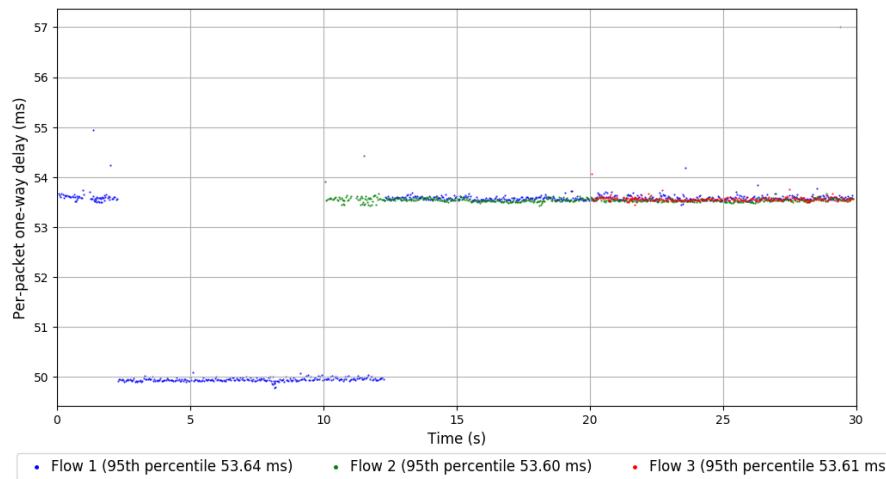
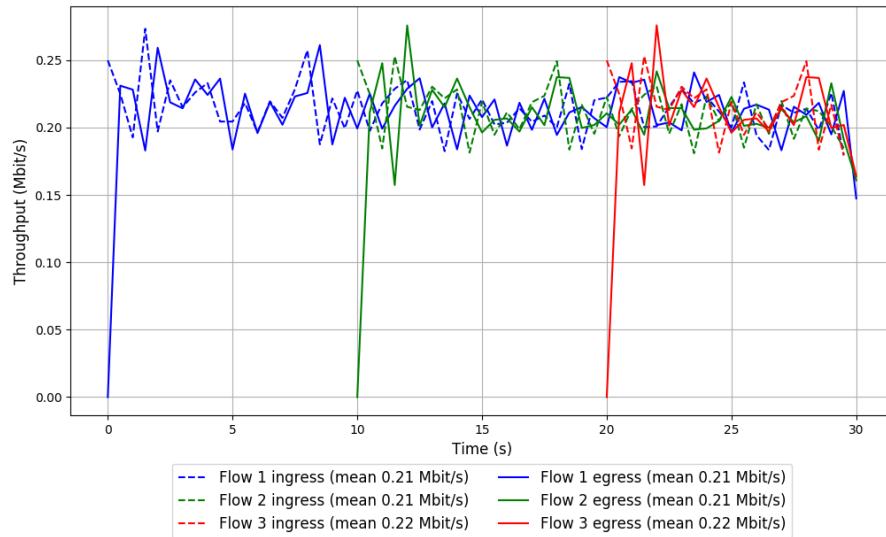


Run 5: Statistics of SCReAM

```
Start at: 2018-06-07 18:21:43
End at: 2018-06-07 18:22:13
Local clock offset: -0.082 ms
Remote clock offset: 0.743 ms

# Below is generated by plot.py at 2018-06-07 22:13:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.634 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.644 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.599 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.612 ms
Loss rate: 1.09%
```

Run 5: Report of SCReAM — Data Link

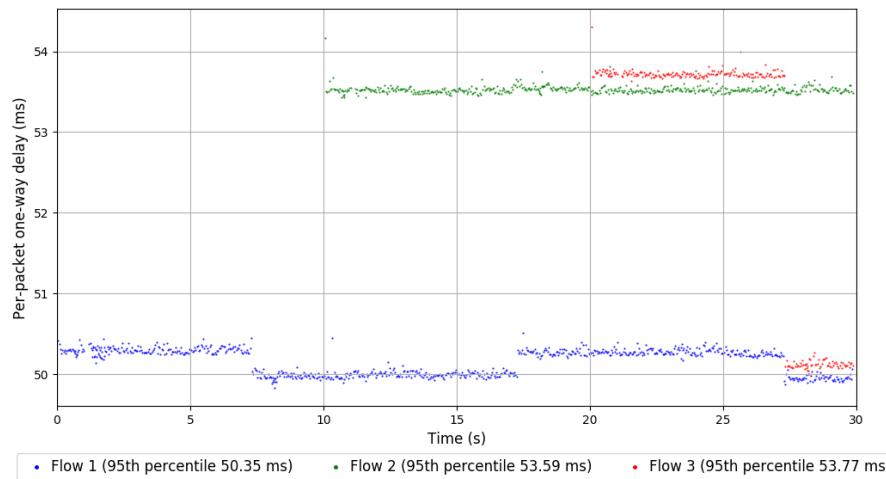
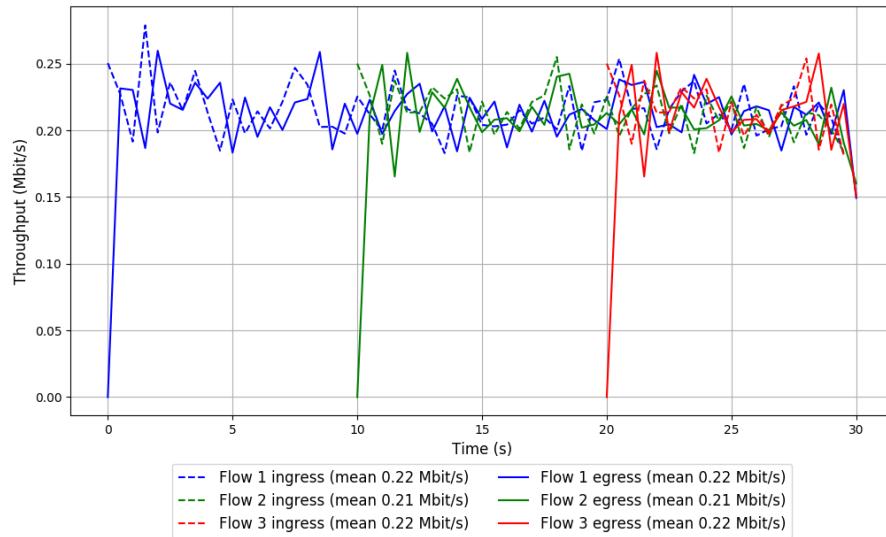


Run 6: Statistics of SCReAM

```
Start at: 2018-06-07 18:44:38
End at: 2018-06-07 18:45:08
Local clock offset: -0.022 ms
Remote clock offset: 0.227 ms

# Below is generated by plot.py at 2018-06-07 22:13:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.720 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.352 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.588 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.768 ms
Loss rate: 1.10%
```

Run 6: Report of SCReAM — Data Link

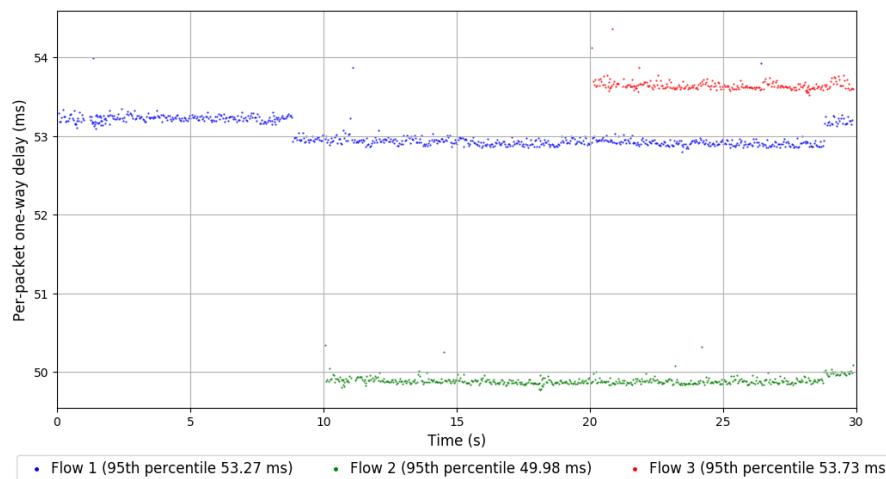
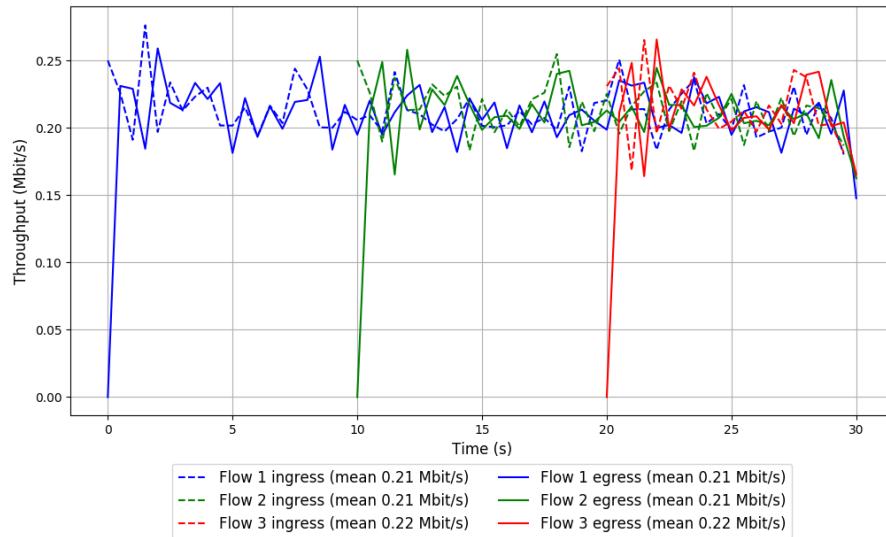


Run 7: Statistics of SCReAM

```
Start at: 2018-06-07 19:08:06
End at: 2018-06-07 19:08:36
Local clock offset: -0.362 ms
Remote clock offset: -0.403 ms

# Below is generated by plot.py at 2018-06-07 22:13:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.660 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.265 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 49.985 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.726 ms
Loss rate: 0.74%
```

## Run 7: Report of SCReAM — Data Link

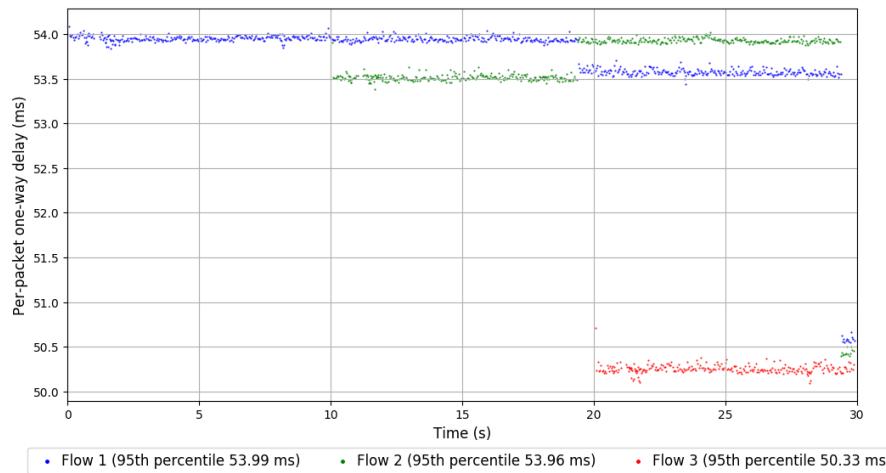
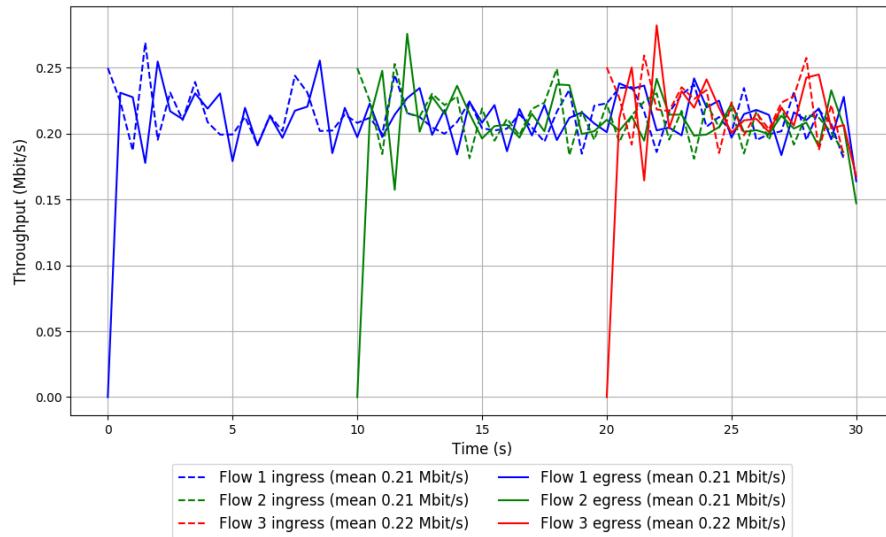


Run 8: Statistics of SCReAM

```
Start at: 2018-06-07 19:30:46
End at: 2018-06-07 19:31:16
Local clock offset: -0.078 ms
Remote clock offset: -0.617 ms

# Below is generated by plot.py at 2018-06-07 22:13:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.978 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.989 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.964 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.332 ms
Loss rate: 1.09%
```

Run 8: Report of SCReAM — Data Link

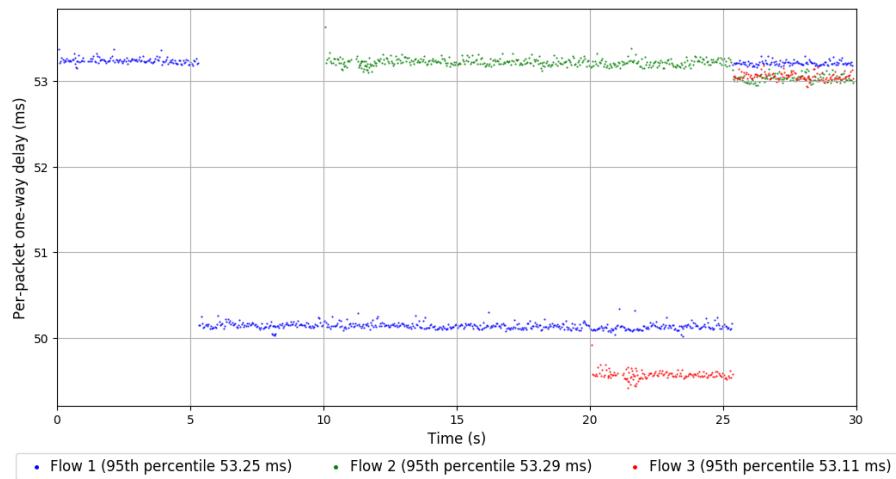
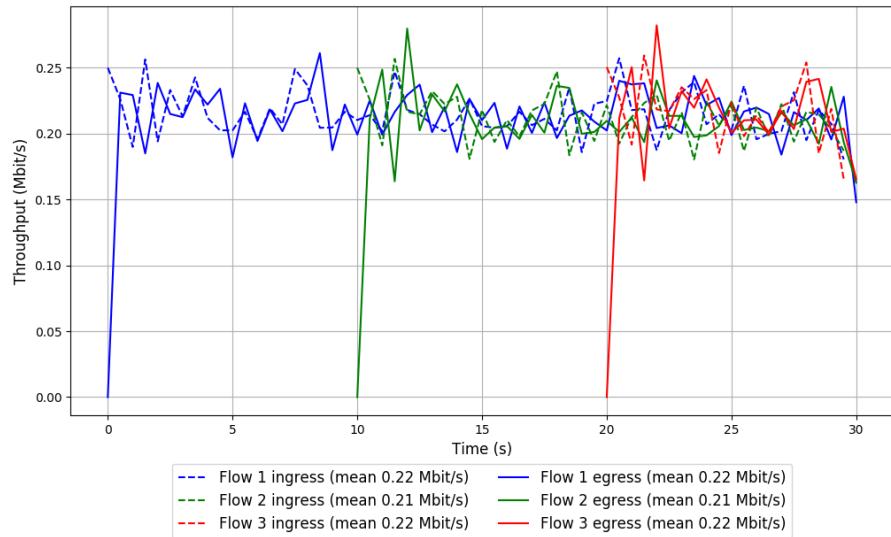


Run 9: Statistics of SCReAM

```
Start at: 2018-06-07 19:53:10
End at: 2018-06-07 19:53:40
Local clock offset: -0.378 ms
Remote clock offset: 0.044 ms

# Below is generated by plot.py at 2018-06-07 22:13:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.266 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.254 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.286 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.106 ms
Loss rate: 0.73%
```

Run 9: Report of SCReAM — Data Link

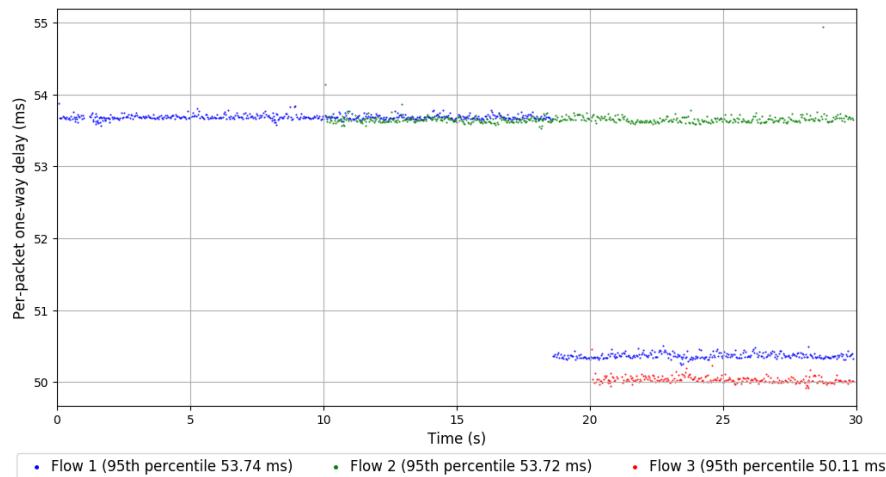
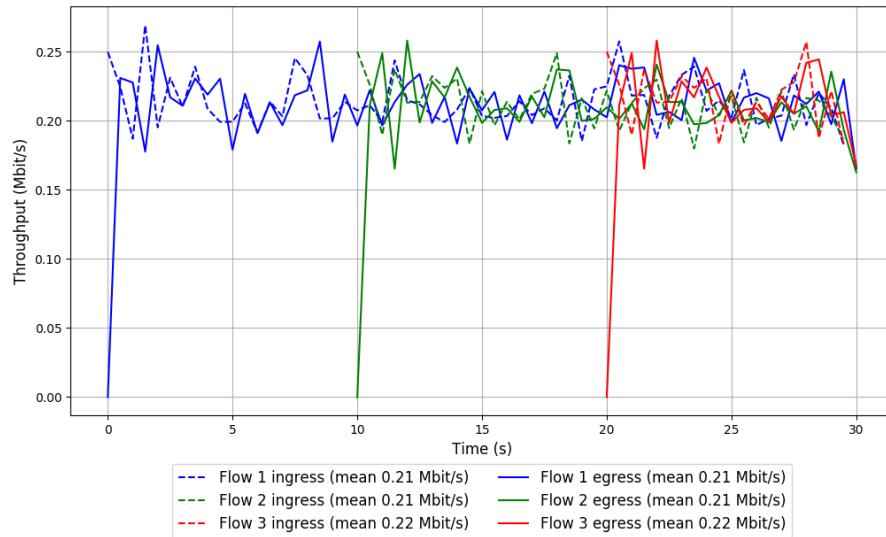


Run 10: Statistics of SCReAM

```
Start at: 2018-06-07 20:15:47
End at: 2018-06-07 20:16:17
Local clock offset: -0.351 ms
Remote clock offset: -0.295 ms

# Below is generated by plot.py at 2018-06-07 22:13:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.728 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.738 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.723 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.107 ms
Loss rate: 1.10%
```

## Run 10: Report of SCReAM — Data Link

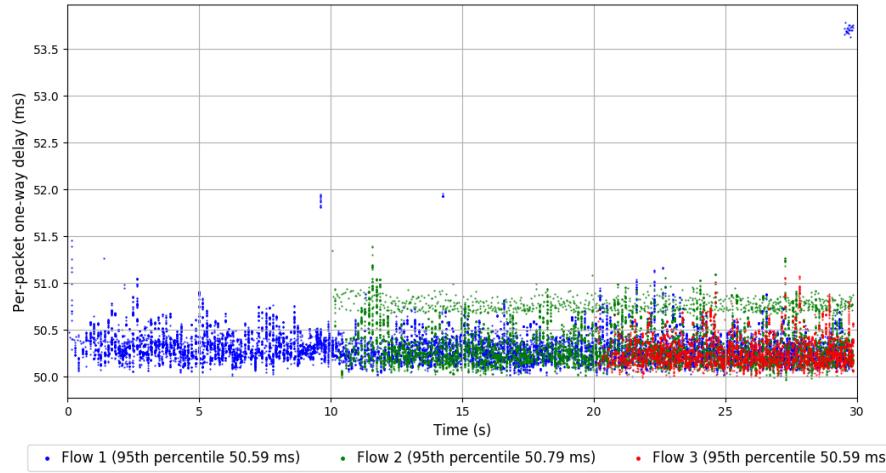
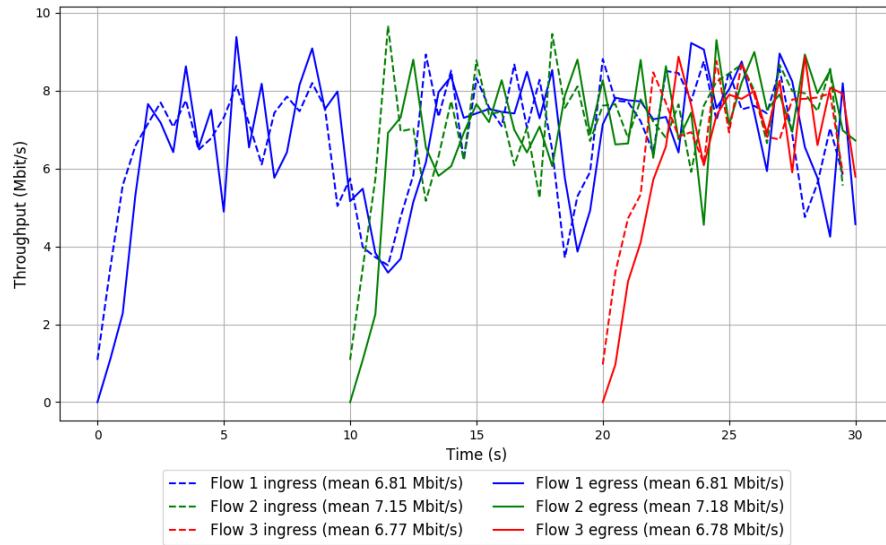


Run 1: Statistics of Sprout

```
Start at: 2018-06-07 16:46:43
End at: 2018-06-07 16:47:13
Local clock offset: -0.123 ms
Remote clock offset: -0.978 ms

# Below is generated by plot.py at 2018-06-07 22:13:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.80 Mbit/s
95th percentile per-packet one-way delay: 50.700 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 6.81 Mbit/s
95th percentile per-packet one-way delay: 50.589 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 7.18 Mbit/s
95th percentile per-packet one-way delay: 50.789 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 6.78 Mbit/s
95th percentile per-packet one-way delay: 50.590 ms
Loss rate: 0.78%
```

## Run 1: Report of Sprout — Data Link

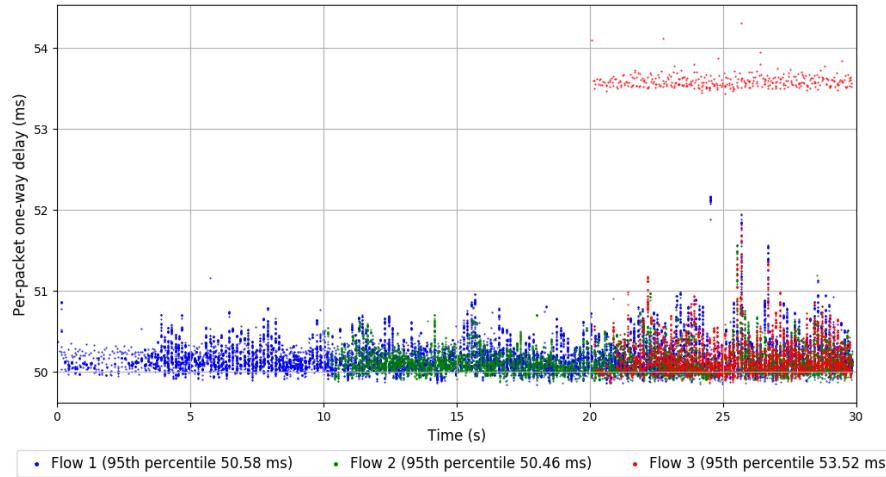
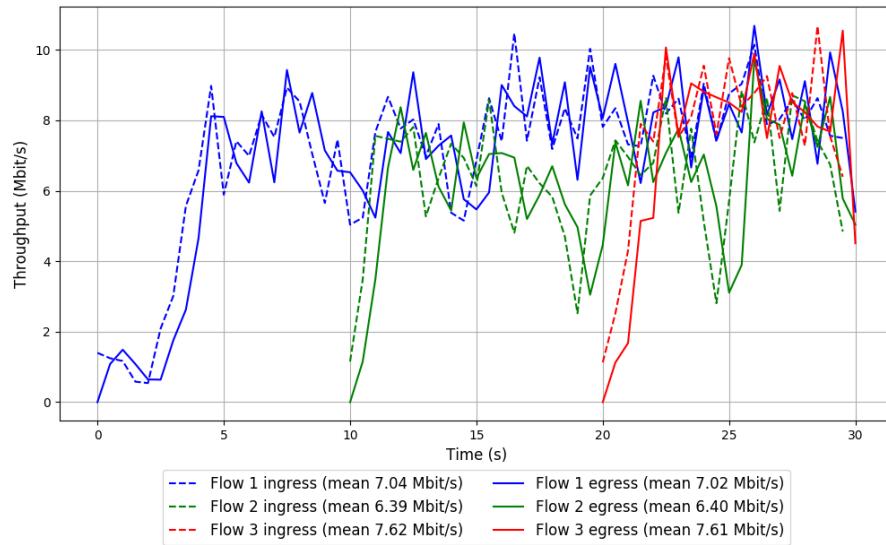


Run 2: Statistics of Sprout

```
Start at: 2018-06-07 17:09:06
End at: 2018-06-07 17:09:36
Local clock offset: -0.129 ms
Remote clock offset: 0.01 ms

# Below is generated by plot.py at 2018-06-07 22:13:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.75 Mbit/s
95th percentile per-packet one-way delay: 50.601 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 7.02 Mbit/s
95th percentile per-packet one-way delay: 50.581 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 6.40 Mbit/s
95th percentile per-packet one-way delay: 50.457 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 7.61 Mbit/s
95th percentile per-packet one-way delay: 53.516 ms
Loss rate: 1.26%
```

Run 2: Report of Sprout — Data Link

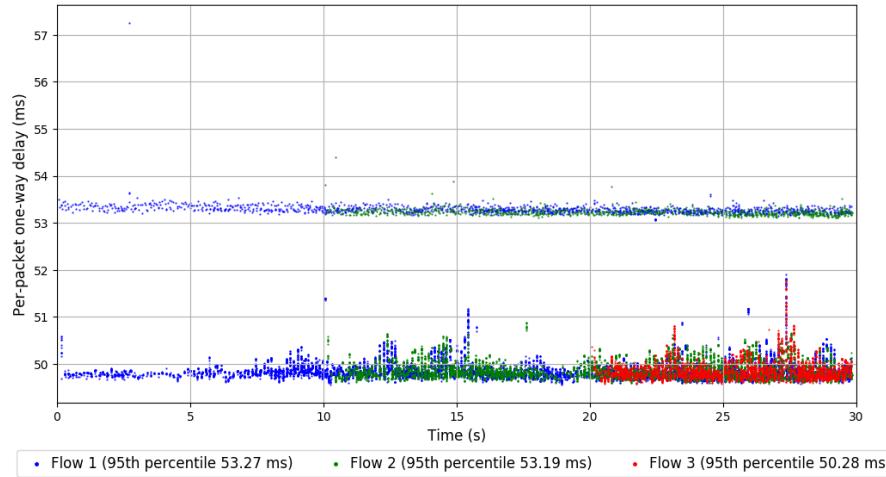
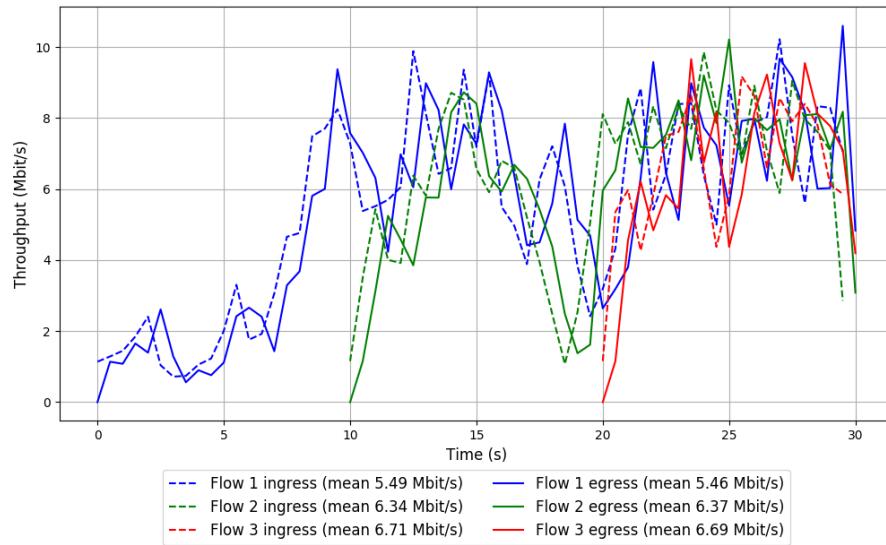


Run 3: Statistics of Sprout

```
Start at: 2018-06-07 17:32:12
End at: 2018-06-07 17:32:42
Local clock offset: -0.24 ms
Remote clock offset: 0.394 ms

# Below is generated by plot.py at 2018-06-07 22:13:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.88 Mbit/s
95th percentile per-packet one-way delay: 53.223 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 5.46 Mbit/s
95th percentile per-packet one-way delay: 53.271 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 6.37 Mbit/s
95th percentile per-packet one-way delay: 53.192 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.69 Mbit/s
95th percentile per-packet one-way delay: 50.276 ms
Loss rate: 1.26%
```

Run 3: Report of Sprout — Data Link

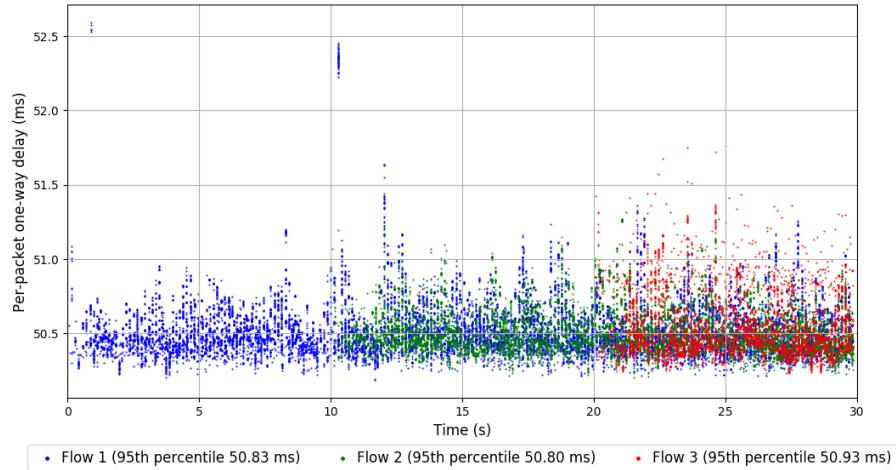
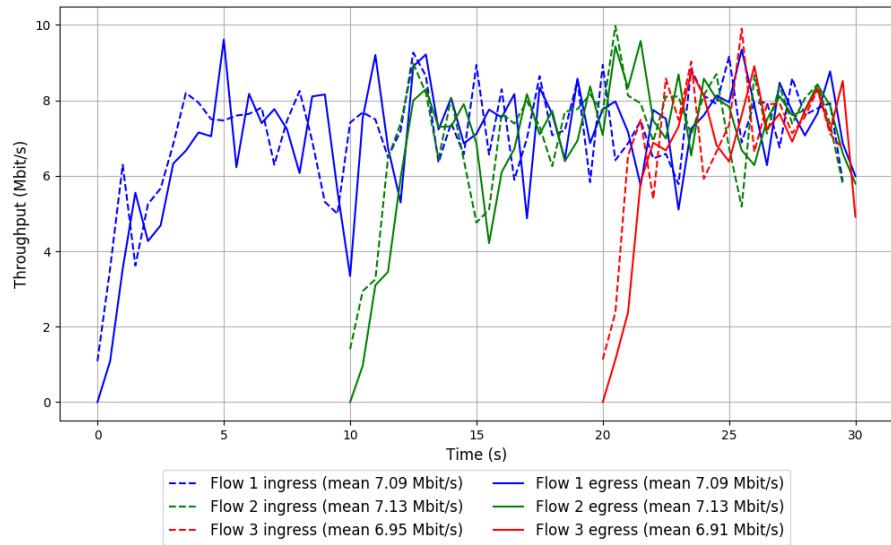


Run 4: Statistics of Sprout

```
Start at: 2018-06-07 17:55:10
End at: 2018-06-07 17:55:40
Local clock offset: 0.128 ms
Remote clock offset: 0.163 ms

# Below is generated by plot.py at 2018-06-07 22:13:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.09 Mbit/s
95th percentile per-packet one-way delay: 50.840 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 7.09 Mbit/s
95th percentile per-packet one-way delay: 50.828 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 7.13 Mbit/s
95th percentile per-packet one-way delay: 50.799 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 6.91 Mbit/s
95th percentile per-packet one-way delay: 50.933 ms
Loss rate: 1.32%
```

## Run 4: Report of Sprout — Data Link

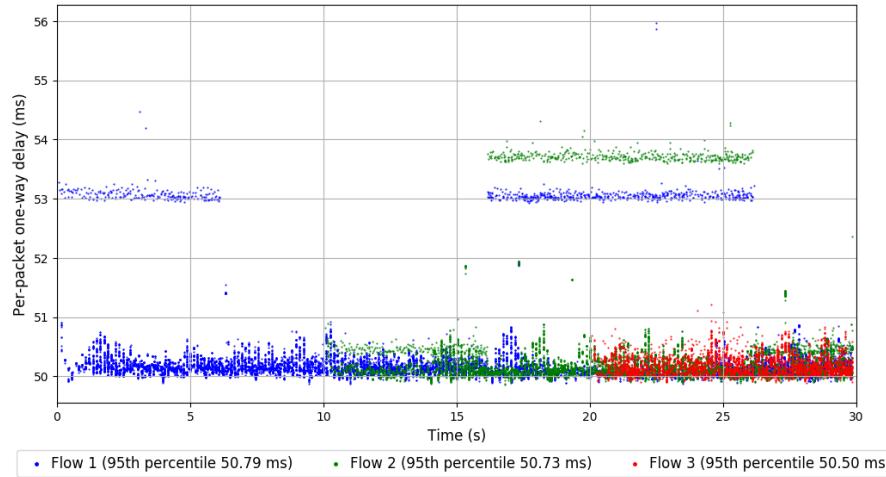
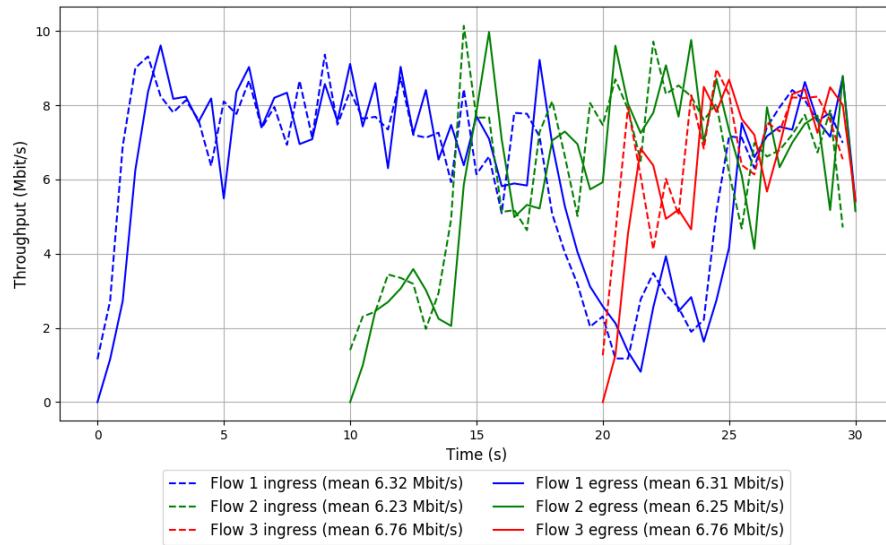


Run 5: Statistics of Sprout

```
Start at: 2018-06-07 18:17:49
End at: 2018-06-07 18:18:19
Local clock offset: -0.108 ms
Remote clock offset: 0.532 ms

# Below is generated by plot.py at 2018-06-07 22:13:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.67 Mbit/s
95th percentile per-packet one-way delay: 50.651 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 6.31 Mbit/s
95th percentile per-packet one-way delay: 50.791 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 6.25 Mbit/s
95th percentile per-packet one-way delay: 50.726 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 6.76 Mbit/s
95th percentile per-packet one-way delay: 50.500 ms
Loss rate: 1.03%
```

Run 5: Report of Sprout — Data Link

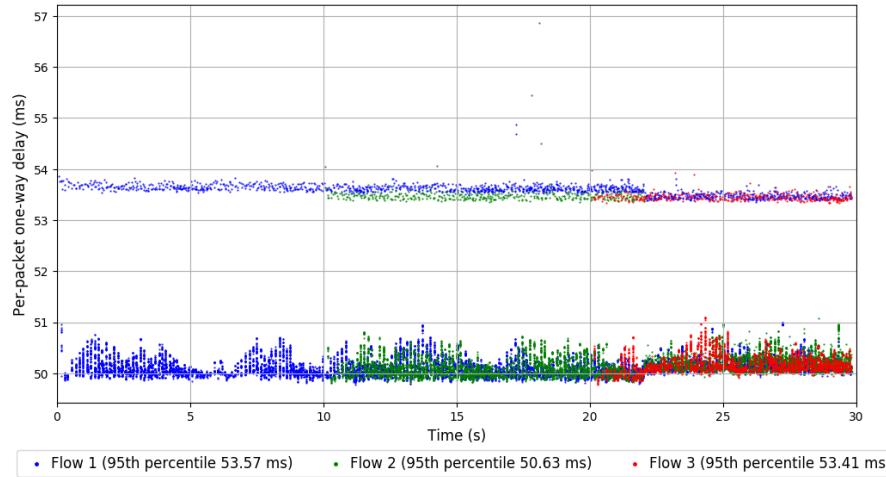
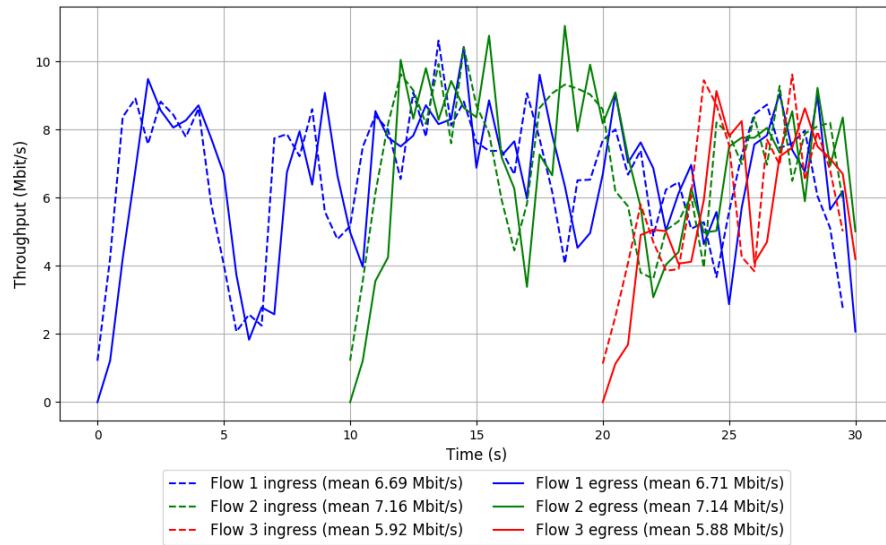


Run 6: Statistics of Sprout

```
Start at: 2018-06-07 18:40:43
End at: 2018-06-07 18:41:13
Local clock offset: -0.136 ms
Remote clock offset: 0.26 ms

# Below is generated by plot.py at 2018-06-07 22:13:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.37 Mbit/s
95th percentile per-packet one-way delay: 53.442 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 6.71 Mbit/s
95th percentile per-packet one-way delay: 53.571 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 7.14 Mbit/s
95th percentile per-packet one-way delay: 50.631 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 5.88 Mbit/s
95th percentile per-packet one-way delay: 53.412 ms
Loss rate: 1.48%
```

Run 6: Report of Sprout — Data Link

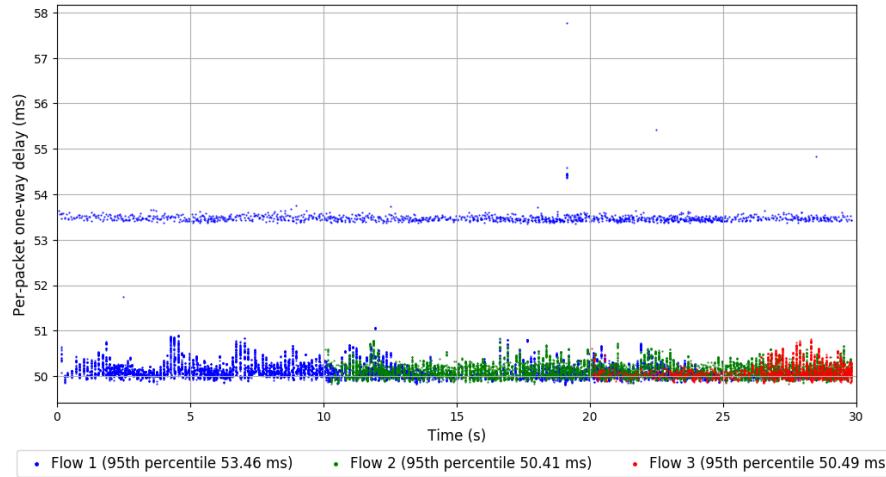
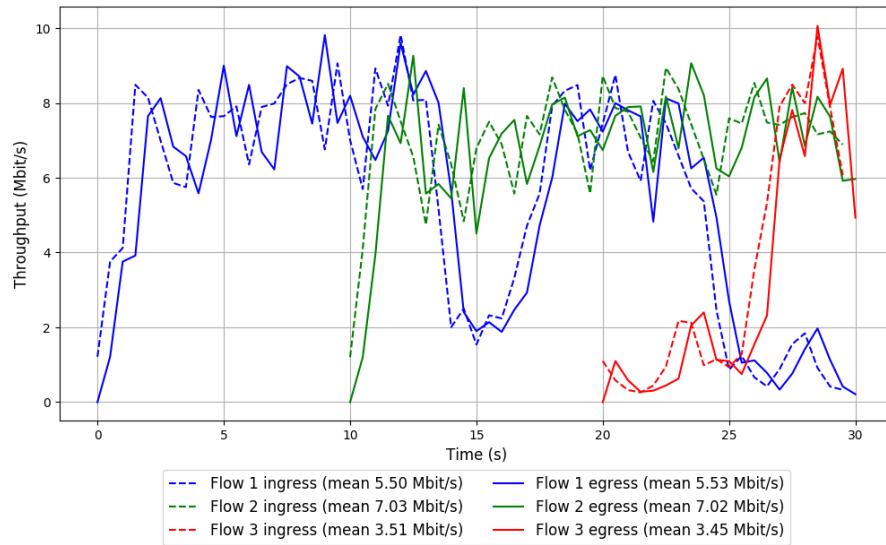


Run 7: Statistics of Sprout

```
Start at: 2018-06-07 19:04:12
End at: 2018-06-07 19:04:42
Local clock offset: 0.019 ms
Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2018-06-07 22:13:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.31 Mbit/s
95th percentile per-packet one-way delay: 50.765 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 5.53 Mbit/s
95th percentile per-packet one-way delay: 53.461 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 7.02 Mbit/s
95th percentile per-packet one-way delay: 50.408 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 3.45 Mbit/s
95th percentile per-packet one-way delay: 50.495 ms
Loss rate: 2.78%
```

Run 7: Report of Sprout — Data Link

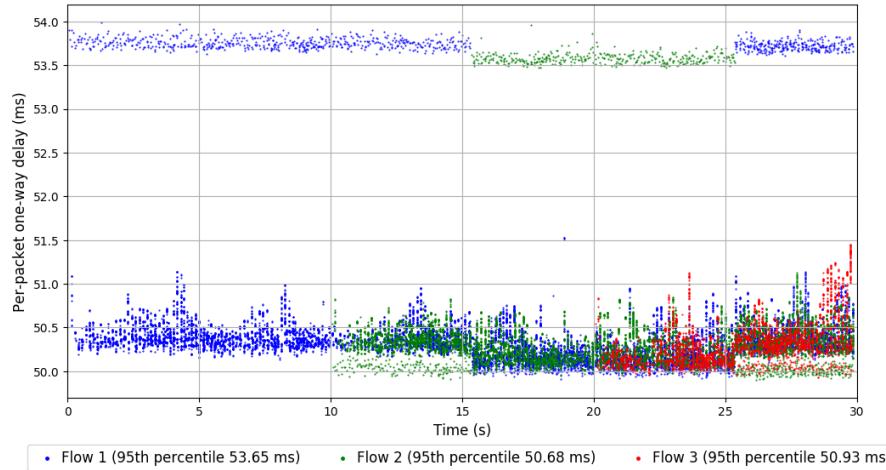
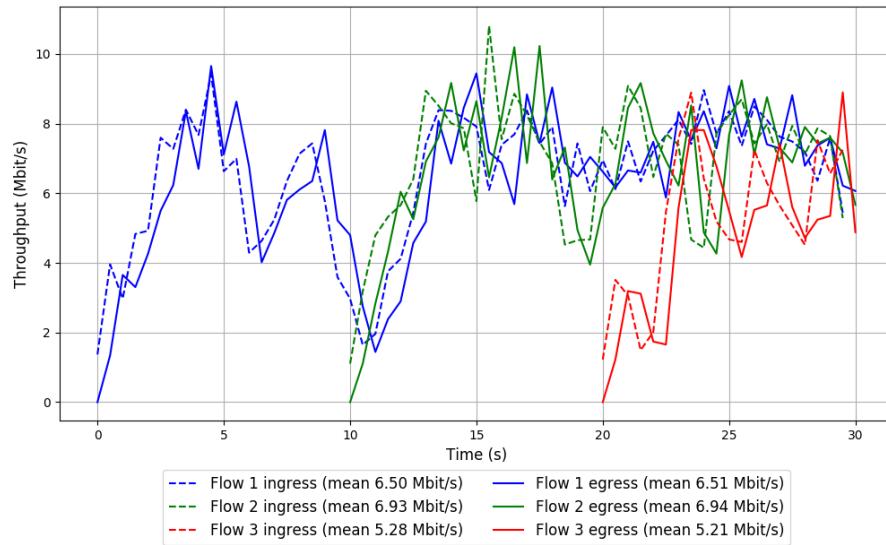


Run 8: Statistics of Sprout

```
Start at: 2018-06-07 19:26:50
End at: 2018-06-07 19:27:20
Local clock offset: -0.116 ms
Remote clock offset: -0.473 ms

# Below is generated by plot.py at 2018-06-07 22:13:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.82 Mbit/s
95th percentile per-packet one-way delay: 50.883 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 6.51 Mbit/s
95th percentile per-packet one-way delay: 53.648 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 6.94 Mbit/s
95th percentile per-packet one-way delay: 50.683 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 5.21 Mbit/s
95th percentile per-packet one-way delay: 50.928 ms
Loss rate: 2.27%
```

Run 8: Report of Sprout — Data Link

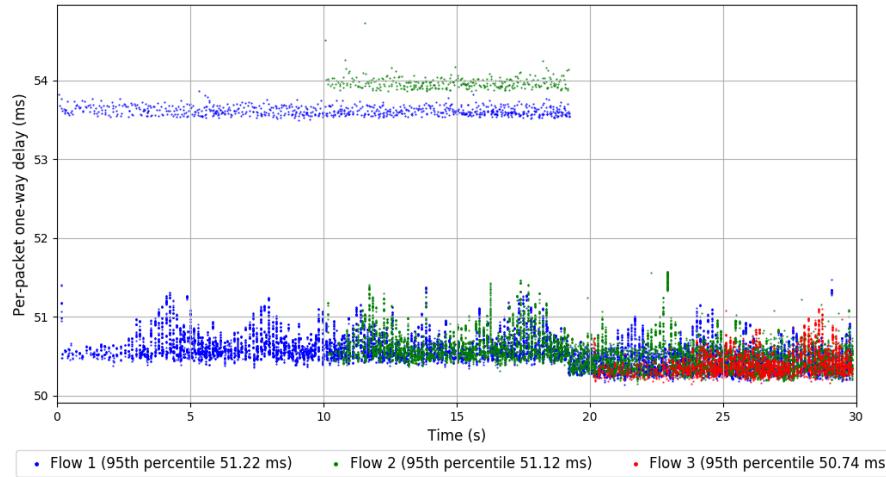
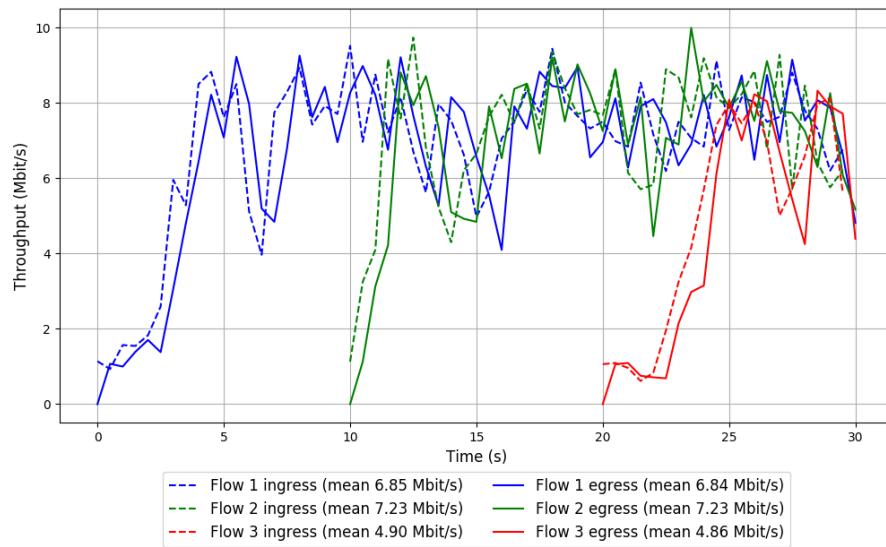


Run 9: Statistics of Sprout

```
Start at: 2018-06-07 19:49:16
End at: 2018-06-07 19:49:46
Local clock offset: 0.128 ms
Remote clock offset: -0.307 ms

# Below is generated by plot.py at 2018-06-07 22:13:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.23 Mbit/s
95th percentile per-packet one-way delay: 51.088 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 6.84 Mbit/s
95th percentile per-packet one-way delay: 51.216 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 7.23 Mbit/s
95th percentile per-packet one-way delay: 51.117 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 4.86 Mbit/s
95th percentile per-packet one-way delay: 50.736 ms
Loss rate: 1.76%
```

Run 9: Report of Sprout — Data Link

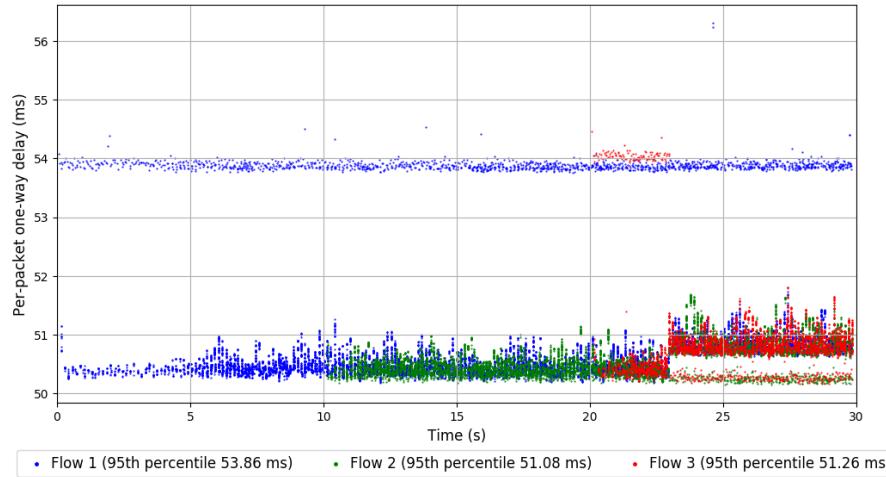
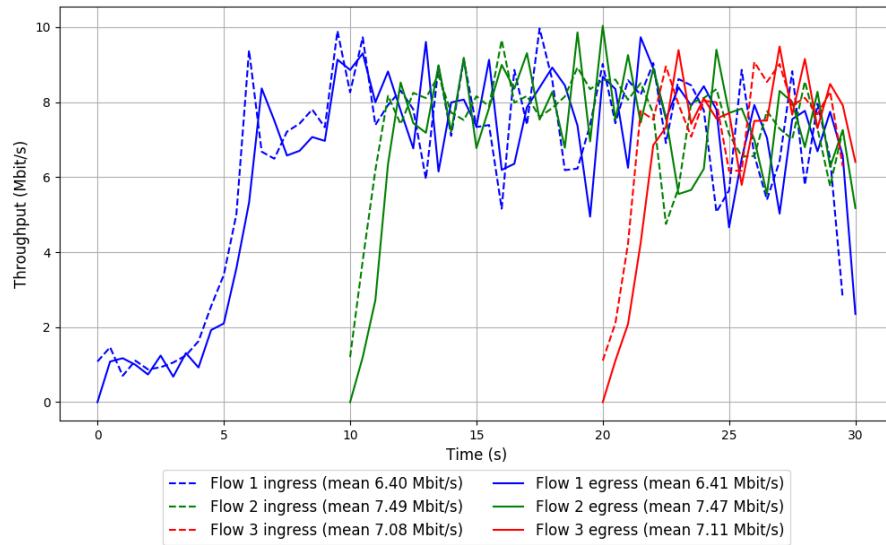


Run 10: Statistics of Sprout

```
Start at: 2018-06-07 20:11:52
End at: 2018-06-07 20:12:22
Local clock offset: 0.017 ms
Remote clock offset: -0.219 ms

# Below is generated by plot.py at 2018-06-07 22:13:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.69 Mbit/s
95th percentile per-packet one-way delay: 51.370 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 6.41 Mbit/s
95th percentile per-packet one-way delay: 53.858 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 7.47 Mbit/s
95th percentile per-packet one-way delay: 51.076 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 7.11 Mbit/s
95th percentile per-packet one-way delay: 51.263 ms
Loss rate: 0.70%
```

## Run 10: Report of Sprout — Data Link

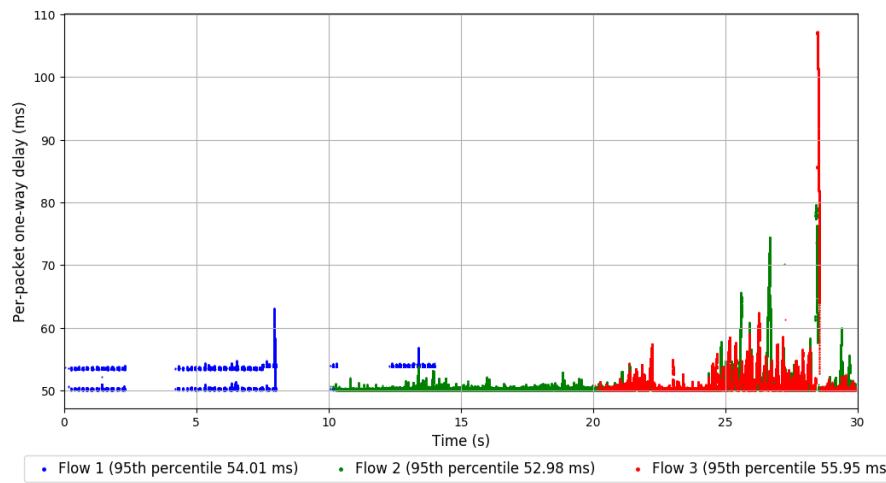
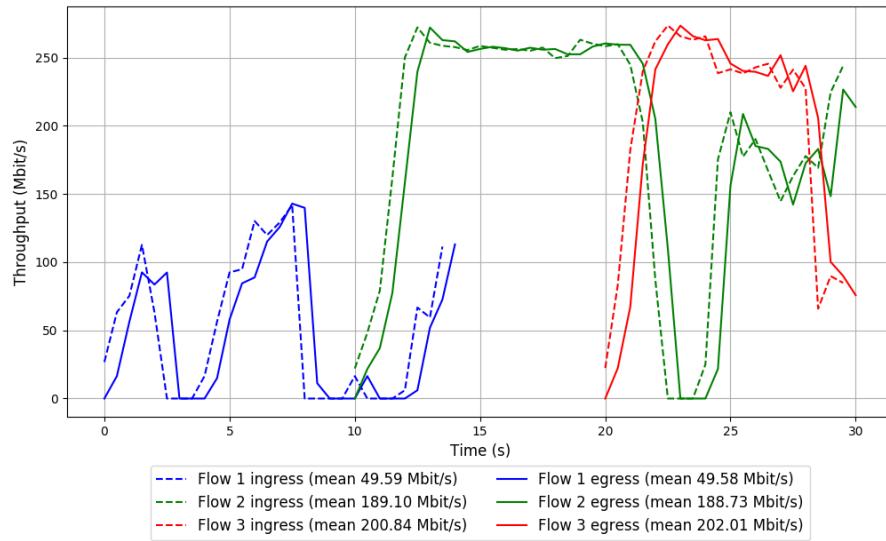


Run 1: Statistics of TaoVA-100x

```
Start at: 2018-06-07 16:35:35
End at: 2018-06-07 16:36:05
Local clock offset: 0.324 ms
Remote clock offset: -0.575 ms

# Below is generated by plot.py at 2018-06-07 22:15:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 215.31 Mbit/s
95th percentile per-packet one-way delay: 54.371 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 49.58 Mbit/s
95th percentile per-packet one-way delay: 54.008 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 188.73 Mbit/s
95th percentile per-packet one-way delay: 52.981 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 202.01 Mbit/s
95th percentile per-packet one-way delay: 55.950 ms
Loss rate: 0.45%
```

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

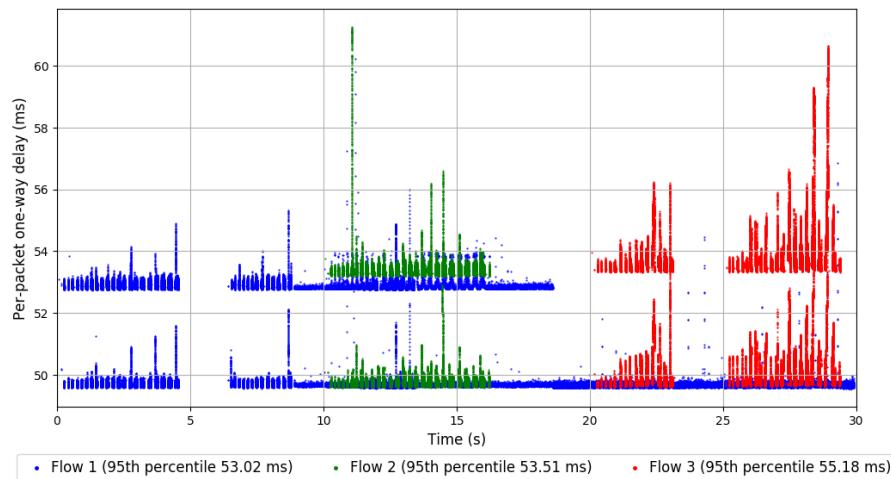
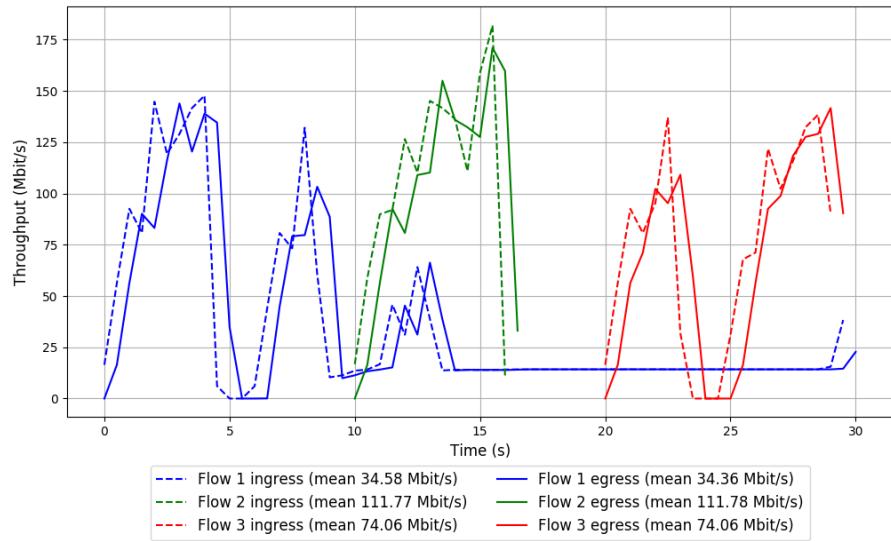


Run 2: Statistics of TaoVA-100x

```
Start at: 2018-06-07 16:58:14
End at: 2018-06-07 16:58:44
Local clock offset: -0.196 ms
Remote clock offset: -0.172 ms

# Below is generated by plot.py at 2018-06-07 22:15:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.58 Mbit/s
95th percentile per-packet one-way delay: 53.890 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 34.36 Mbit/s
95th percentile per-packet one-way delay: 53.015 ms
Loss rate: 0.87%
-- Flow 2:
Average throughput: 111.78 Mbit/s
95th percentile per-packet one-way delay: 53.508 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 74.06 Mbit/s
95th percentile per-packet one-way delay: 55.180 ms
Loss rate: 0.00%
```

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

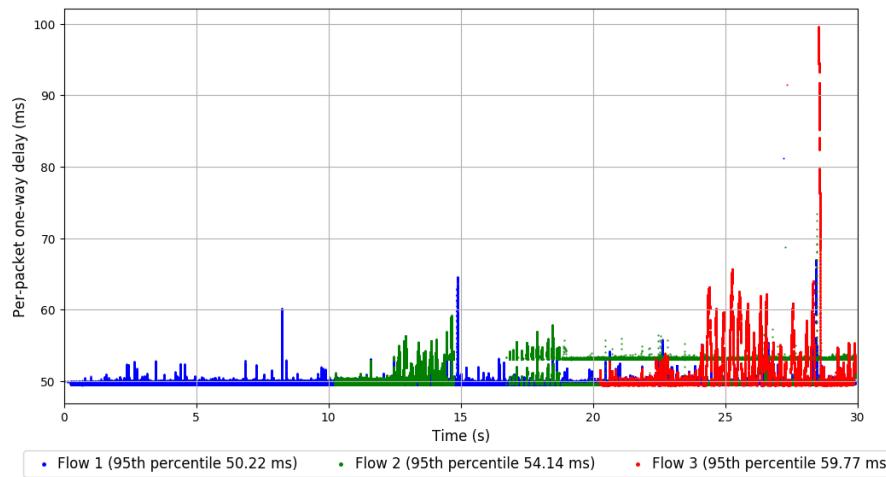
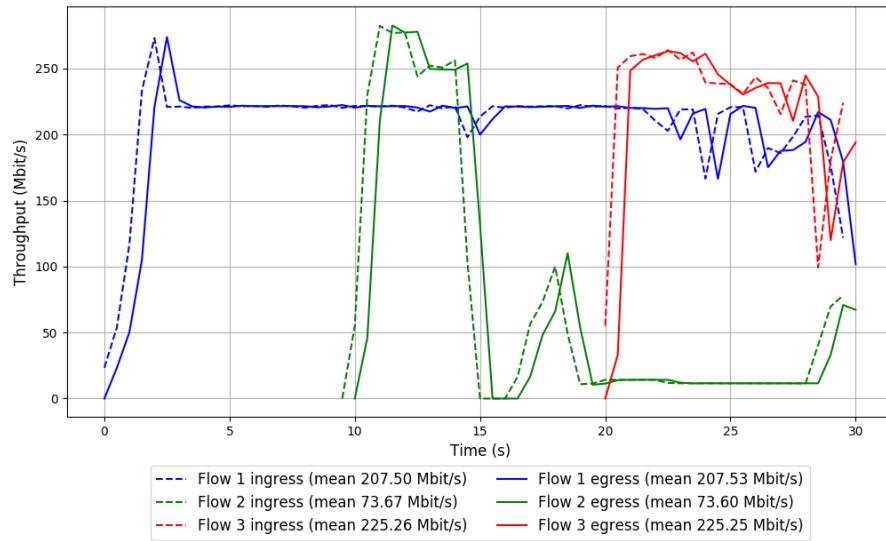


Run 3: Statistics of TaoVA-100x

```
Start at: 2018-06-07 17:20:41
End at: 2018-06-07 17:21:11
Local clock offset: -0.545 ms
Remote clock offset: 0.078 ms

# Below is generated by plot.py at 2018-06-07 22:19:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 330.86 Mbit/s
95th percentile per-packet one-way delay: 53.866 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 207.53 Mbit/s
95th percentile per-packet one-way delay: 50.222 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 73.60 Mbit/s
95th percentile per-packet one-way delay: 54.141 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 225.25 Mbit/s
95th percentile per-packet one-way delay: 59.772 ms
Loss rate: 1.06%
```

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

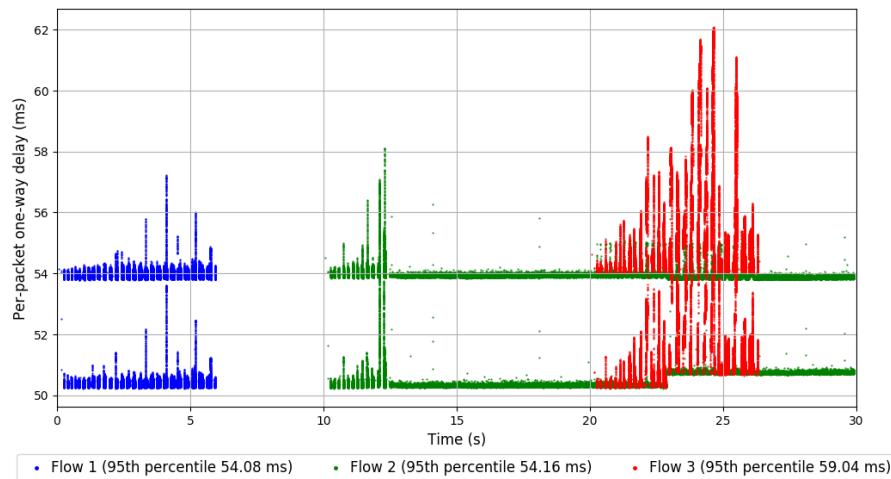
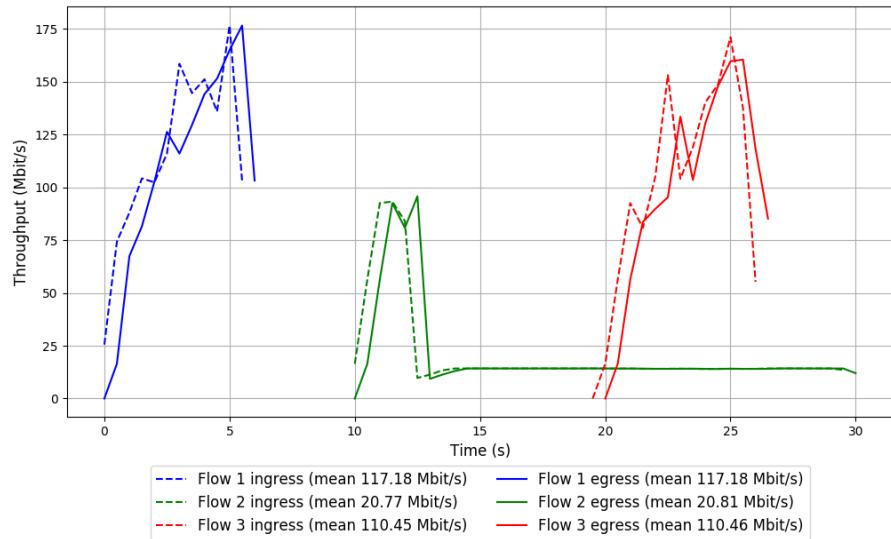


Run 4: Statistics of TaoVA-100x

```
Start at: 2018-06-07 17:43:52
End at: 2018-06-07 17:44:22
Local clock offset: 0.37 ms
Remote clock offset: 0.357 ms

# Below is generated by plot.py at 2018-06-07 22:19:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 60.04 Mbit/s
95th percentile per-packet one-way delay: 56.797 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 117.18 Mbit/s
95th percentile per-packet one-way delay: 54.079 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 20.81 Mbit/s
95th percentile per-packet one-way delay: 54.159 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 110.46 Mbit/s
95th percentile per-packet one-way delay: 59.037 ms
Loss rate: 0.00%
```

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

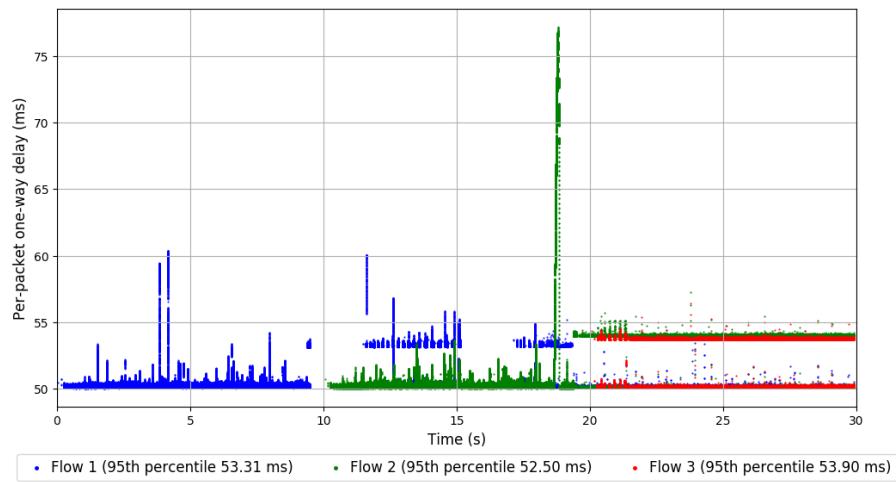
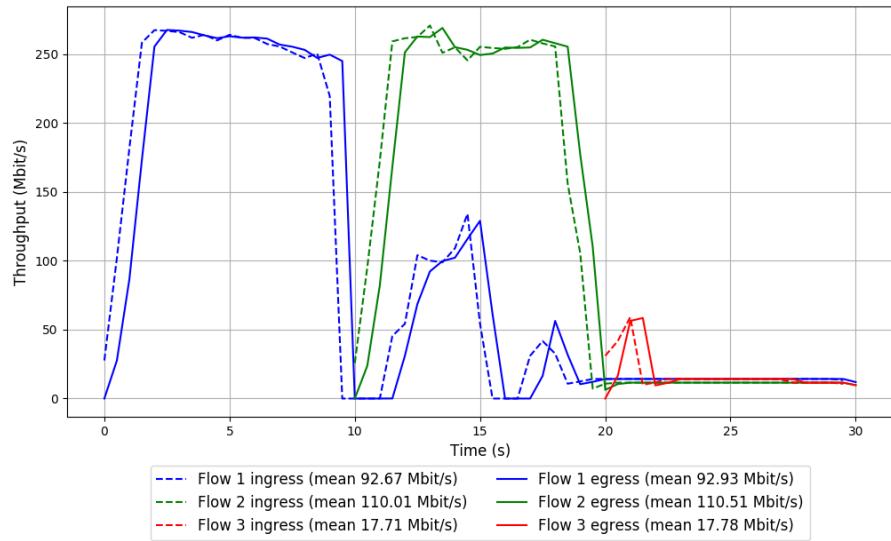


Run 5: Statistics of TaoVA-100x

```
Start at: 2018-06-07 18:06:46
End at: 2018-06-07 18:07:16
Local clock offset: 0.066 ms
Remote clock offset: 0.355 ms

# Below is generated by plot.py at 2018-06-07 22:19:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 172.27 Mbit/s
95th percentile per-packet one-way delay: 53.399 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 92.93 Mbit/s
95th percentile per-packet one-way delay: 53.306 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 110.51 Mbit/s
95th percentile per-packet one-way delay: 52.499 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 17.78 Mbit/s
95th percentile per-packet one-way delay: 53.900 ms
Loss rate: 0.66%
```

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

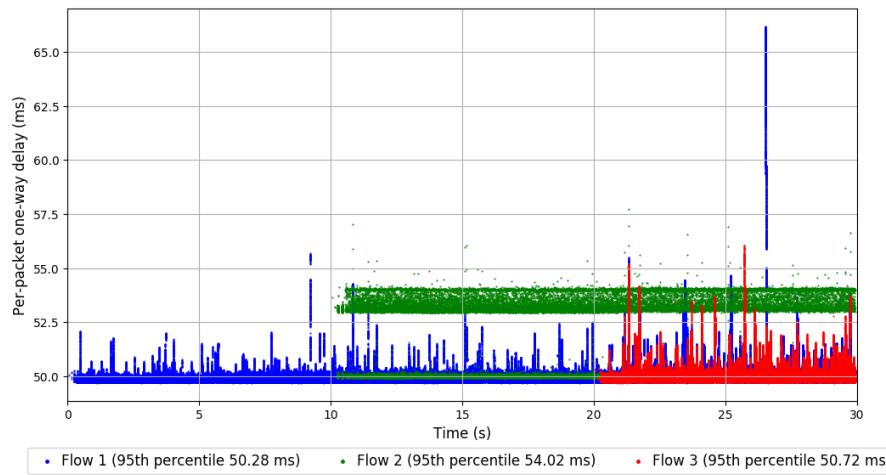
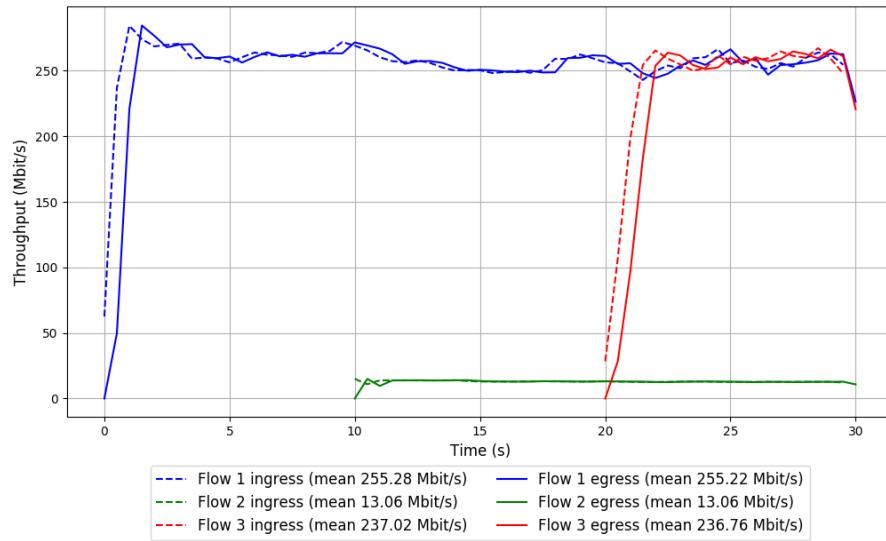


Run 6: Statistics of TaoVA-100x

```
Start at: 2018-06-07 18:29:19
End at: 2018-06-07 18:29:49
Local clock offset: -0.429 ms
Remote clock offset: 0.497 ms

# Below is generated by plot.py at 2018-06-07 22:20:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 342.11 Mbit/s
95th percentile per-packet one-way delay: 50.568 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 255.22 Mbit/s
95th percentile per-packet one-way delay: 50.282 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 13.06 Mbit/s
95th percentile per-packet one-way delay: 54.016 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 236.76 Mbit/s
95th percentile per-packet one-way delay: 50.721 ms
Loss rate: 1.12%
```

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

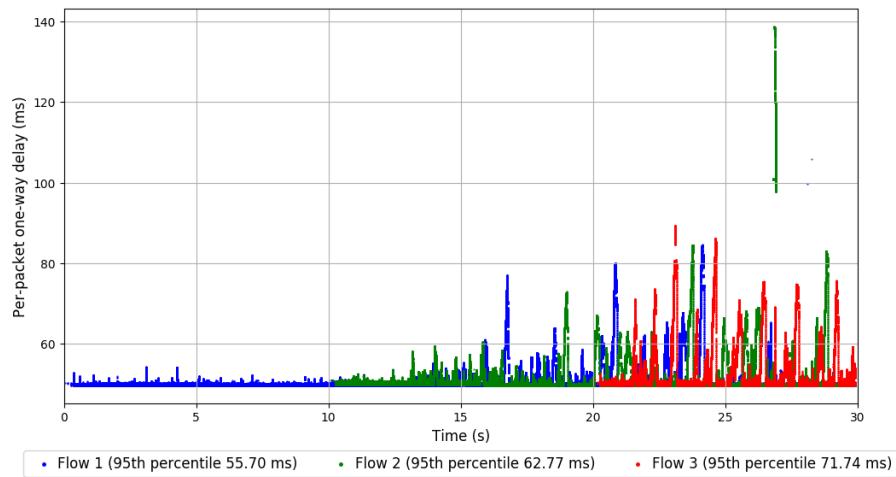
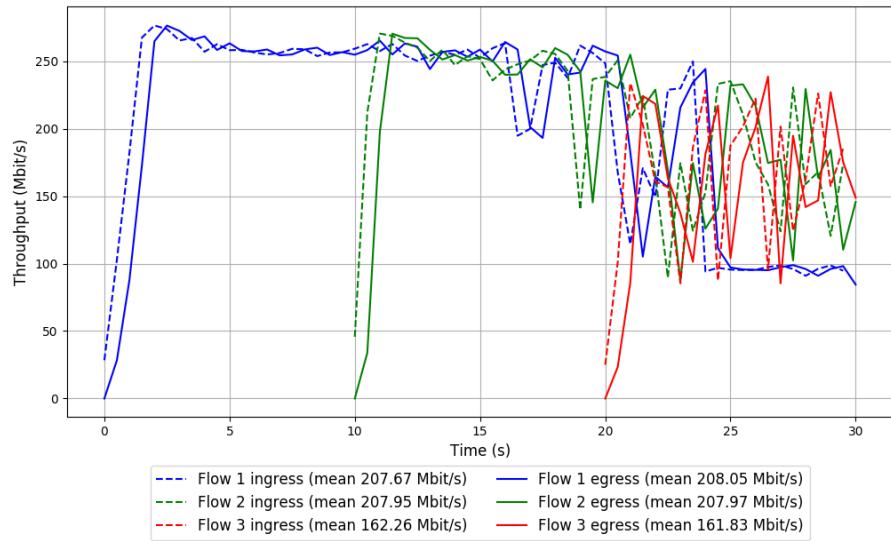


Run 7: Statistics of TaoVA-100x

```
Start at: 2018-06-07 18:52:19
End at: 2018-06-07 18:52:49
Local clock offset: -0.041 ms
Remote clock offset: 0.025 ms

# Below is generated by plot.py at 2018-06-07 22:23:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 399.76 Mbit/s
95th percentile per-packet one-way delay: 61.603 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 208.05 Mbit/s
95th percentile per-packet one-way delay: 55.698 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 207.97 Mbit/s
95th percentile per-packet one-way delay: 62.771 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 161.83 Mbit/s
95th percentile per-packet one-way delay: 71.740 ms
Loss rate: 1.28%
```

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

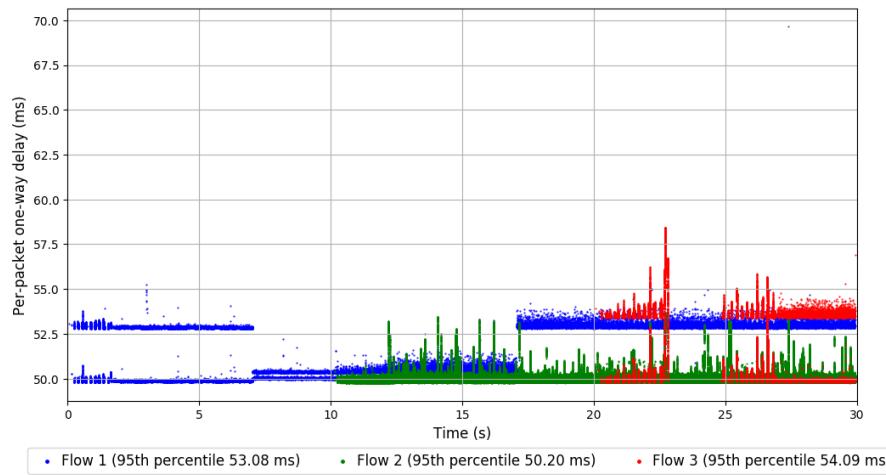
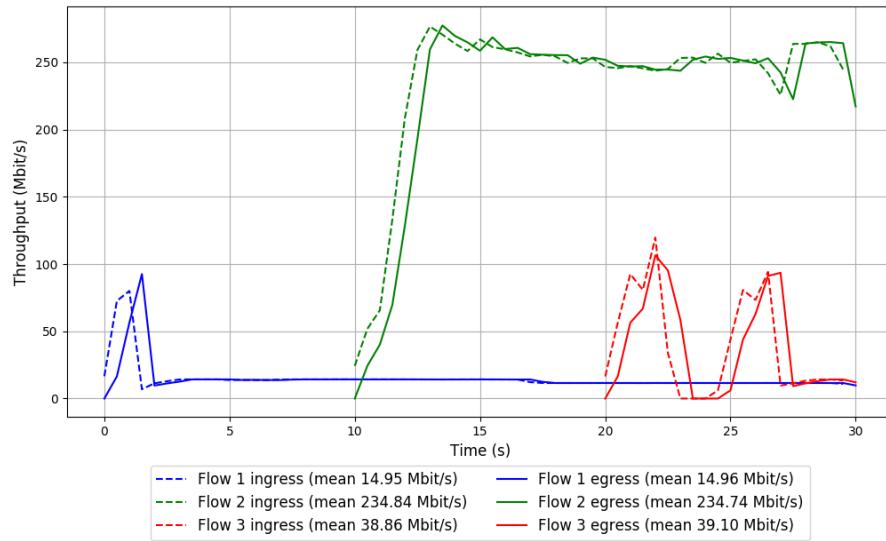


Run 8: Statistics of TaoVA-100x

```
Start at: 2018-06-07 19:15:48
End at: 2018-06-07 19:16:18
Local clock offset: -0.183 ms
Remote clock offset: -0.295 ms

# Below is generated by plot.py at 2018-06-07 22:23:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 183.98 Mbit/s
95th percentile per-packet one-way delay: 52.913 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 14.96 Mbit/s
95th percentile per-packet one-way delay: 53.076 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 234.74 Mbit/s
95th percentile per-packet one-way delay: 50.197 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 39.10 Mbit/s
95th percentile per-packet one-way delay: 54.095 ms
Loss rate: 0.37%
```

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

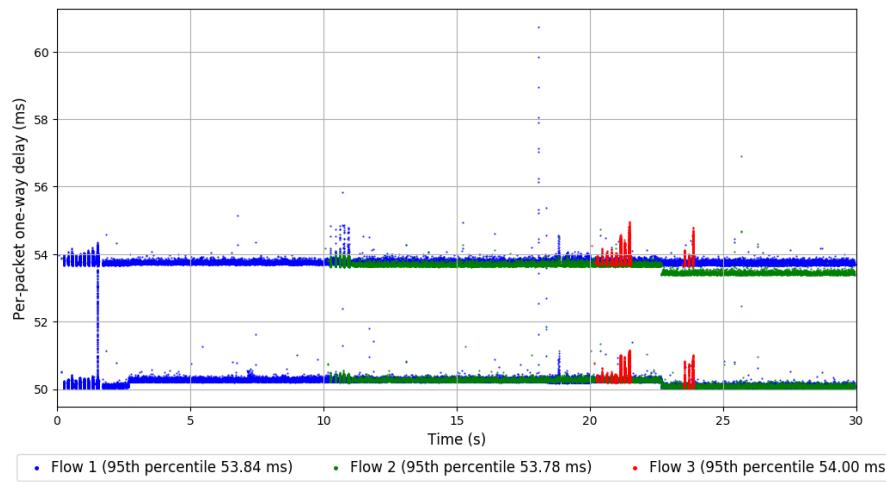
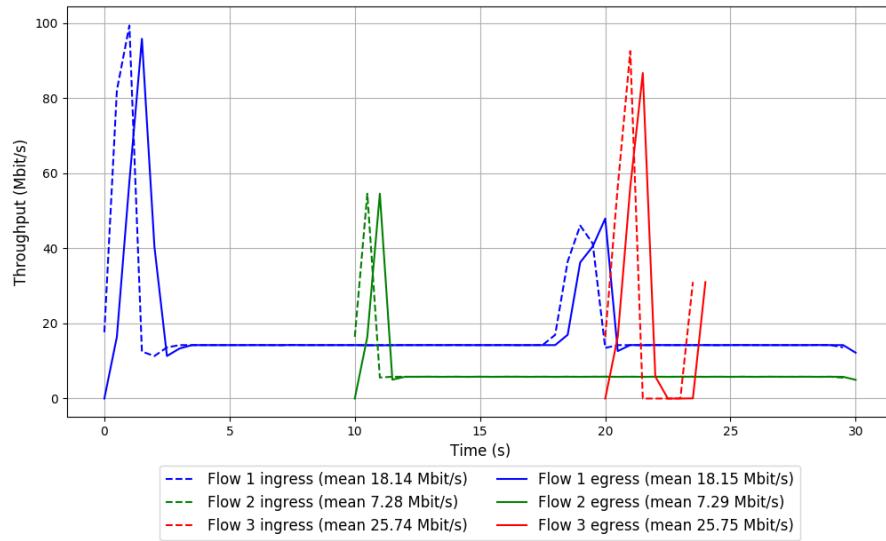


Run 9: Statistics of TaoVA-100x

```
Start at: 2018-06-07 19:38:23
End at: 2018-06-07 19:38:53
Local clock offset: 0.079 ms
Remote clock offset: -0.436 ms

# Below is generated by plot.py at 2018-06-07 22:23:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 26.29 Mbit/s
95th percentile per-packet one-way delay: 53.856 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 18.15 Mbit/s
95th percentile per-packet one-way delay: 53.841 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 7.29 Mbit/s
95th percentile per-packet one-way delay: 53.784 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 25.75 Mbit/s
95th percentile per-packet one-way delay: 54.003 ms
Loss rate: 0.00%
```

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

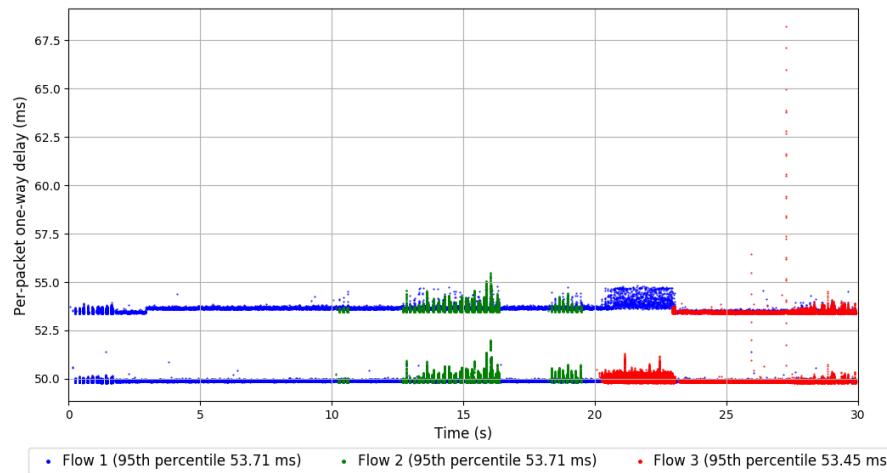
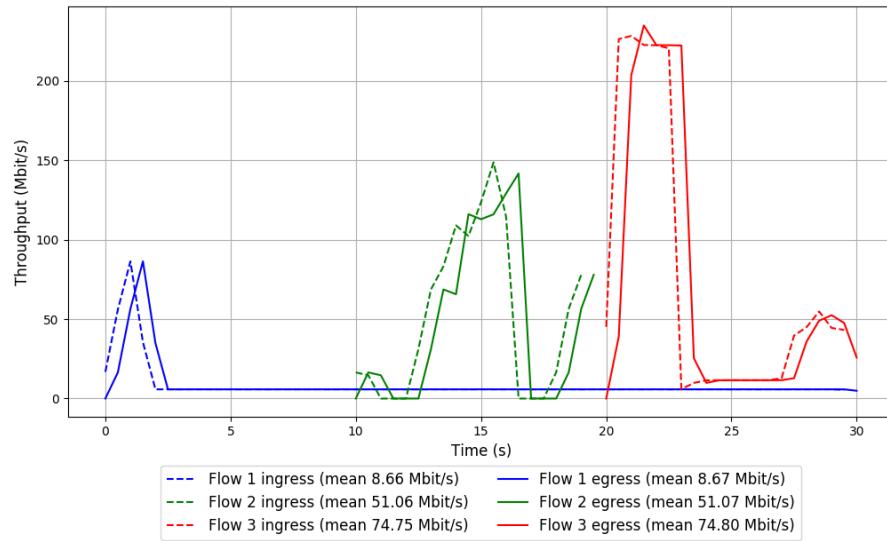


Run 10: Statistics of TaoVA-100x

```
Start at: 2018-06-07 20:00:52
End at: 2018-06-07 20:01:22
Local clock offset: -0.247 ms
Remote clock offset: -0.156 ms

# Below is generated by plot.py at 2018-06-07 22:23:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.43 Mbit/s
95th percentile per-packet one-way delay: 53.647 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 8.67 Mbit/s
95th percentile per-packet one-way delay: 53.713 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 51.07 Mbit/s
95th percentile per-packet one-way delay: 53.711 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 74.80 Mbit/s
95th percentile per-packet one-way delay: 53.454 ms
Loss rate: 1.17%
```

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

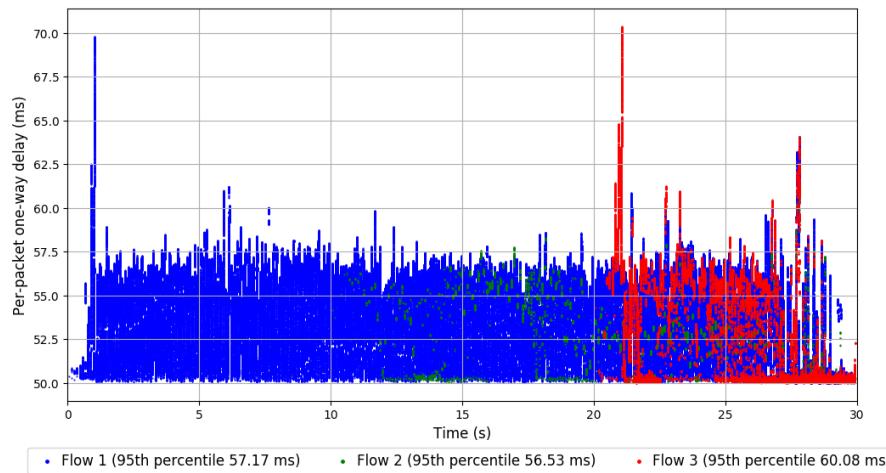
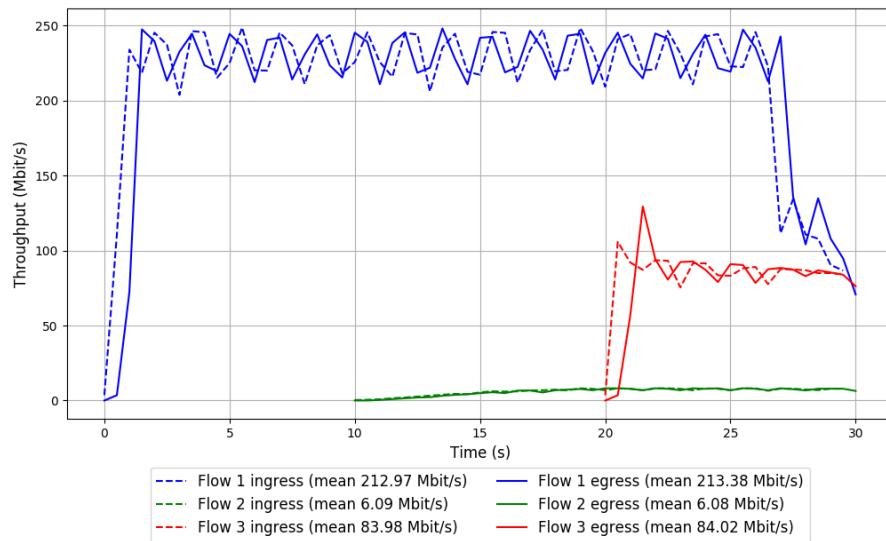


Run 1: Statistics of TCP Vegas

```
Start at: 2018-06-07 16:34:15
End at: 2018-06-07 16:34:45
Local clock offset: -0.014 ms
Remote clock offset: -0.85 ms

# Below is generated by plot.py at 2018-06-07 22:23:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 244.99 Mbit/s
95th percentile per-packet one-way delay: 57.291 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 213.38 Mbit/s
95th percentile per-packet one-way delay: 57.168 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 6.08 Mbit/s
95th percentile per-packet one-way delay: 56.531 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 84.02 Mbit/s
95th percentile per-packet one-way delay: 60.077 ms
Loss rate: 1.01%
```

Run 1: Report of TCP Vegas — Data Link

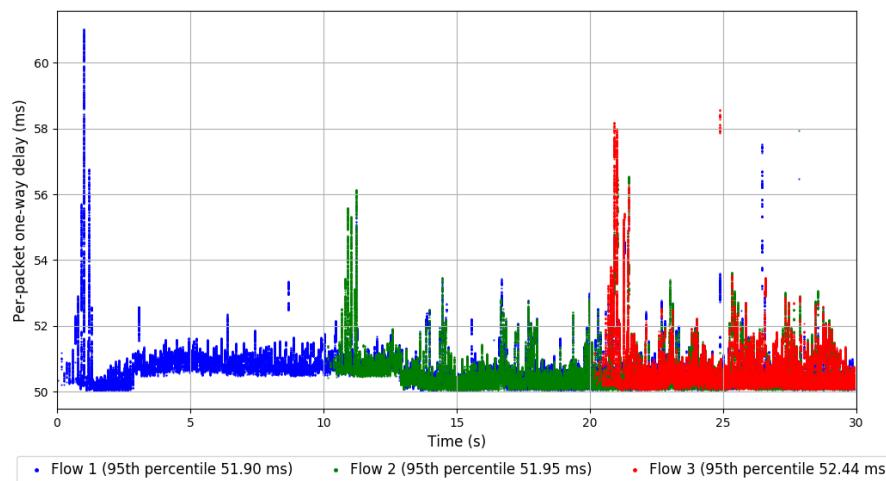
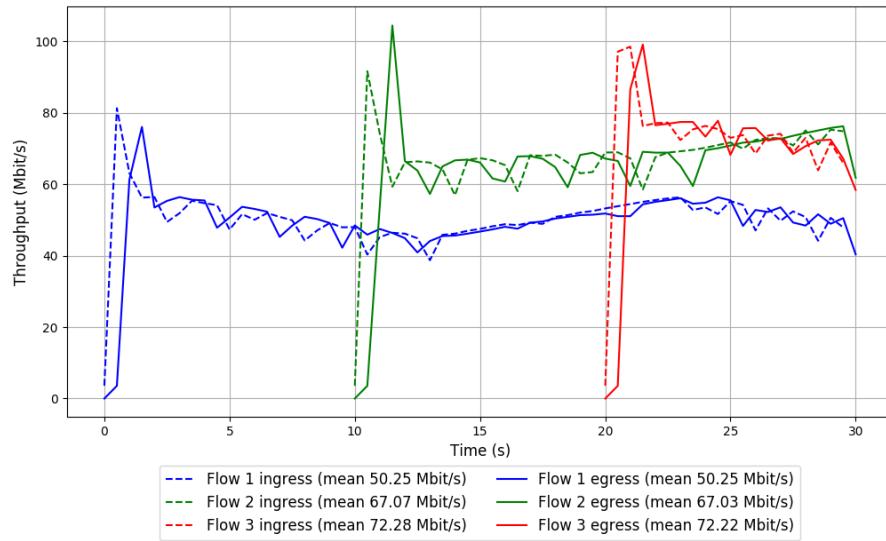


Run 2: Statistics of TCP Vegas

```
Start at: 2018-06-07 16:57:00
End at: 2018-06-07 16:57:30
Local clock offset: 0.006 ms
Remote clock offset: -0.487 ms

# Below is generated by plot.py at 2018-06-07 22:23:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 118.62 Mbit/s
95th percentile per-packet one-way delay: 51.998 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 50.25 Mbit/s
95th percentile per-packet one-way delay: 51.896 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 67.03 Mbit/s
95th percentile per-packet one-way delay: 51.950 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 72.22 Mbit/s
95th percentile per-packet one-way delay: 52.440 ms
Loss rate: 0.91%
```

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

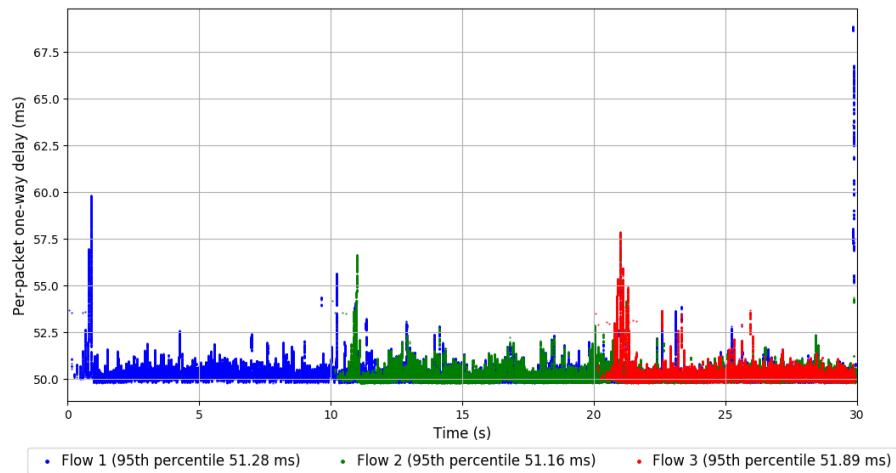
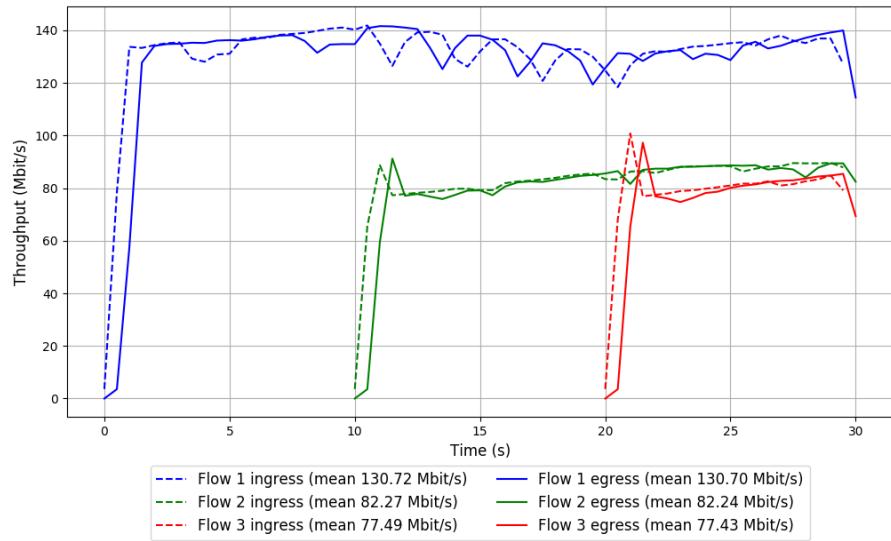


Run 3: Statistics of TCP Vegas

```
Start at: 2018-06-07 17:19:22
End at: 2018-06-07 17:19:52
Local clock offset: -0.351 ms
Remote clock offset: -0.075 ms

# Below is generated by plot.py at 2018-06-07 22:23:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 210.93 Mbit/s
95th percentile per-packet one-way delay: 51.281 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 130.70 Mbit/s
95th percentile per-packet one-way delay: 51.276 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 82.24 Mbit/s
95th percentile per-packet one-way delay: 51.161 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 77.43 Mbit/s
95th percentile per-packet one-way delay: 51.894 ms
Loss rate: 1.12%
```

Run 3: Report of TCP Vegas — Data Link

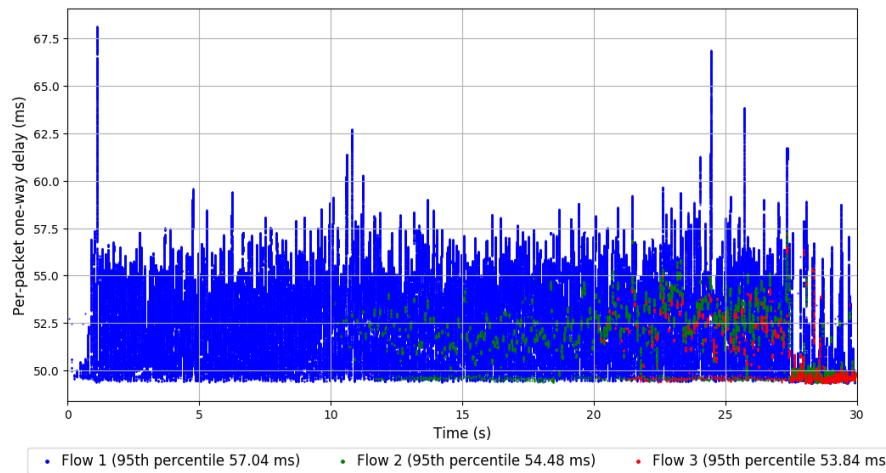
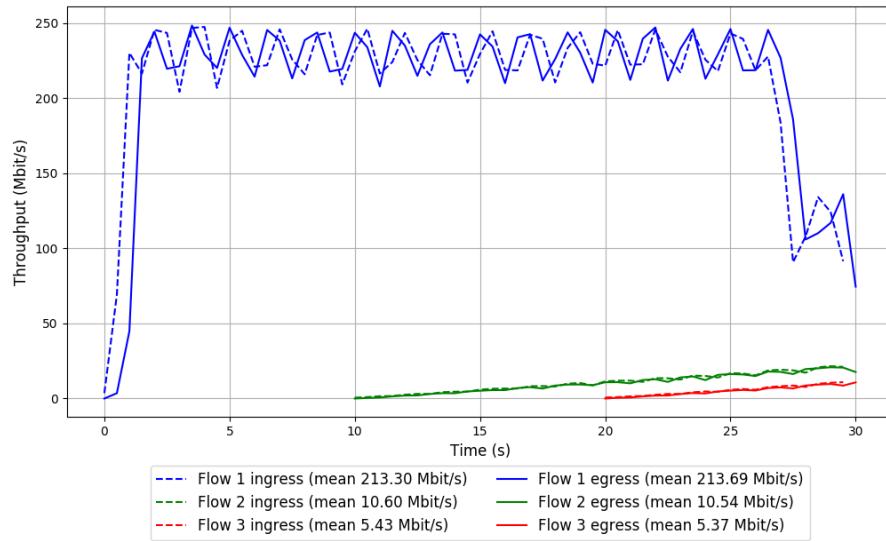


Run 4: Statistics of TCP Vegas

```
Start at: 2018-06-07 17:42:33
End at: 2018-06-07 17:43:03
Local clock offset: -0.405 ms
Remote clock offset: 0.453 ms

# Below is generated by plot.py at 2018-06-07 22:23:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 222.34 Mbit/s
95th percentile per-packet one-way delay: 56.992 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 213.69 Mbit/s
95th percentile per-packet one-way delay: 57.036 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 10.54 Mbit/s
95th percentile per-packet one-way delay: 54.484 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 5.37 Mbit/s
95th percentile per-packet one-way delay: 53.839 ms
Loss rate: 2.24%
```

Run 4: Report of TCP Vegas — Data Link

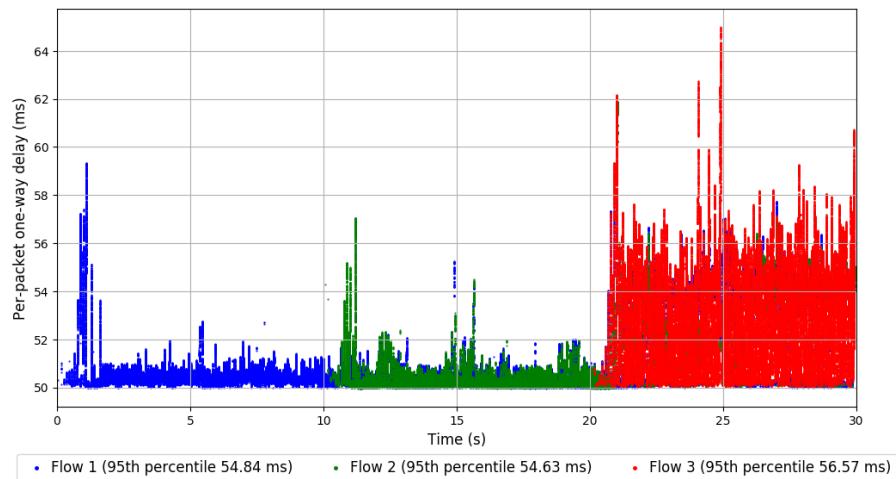
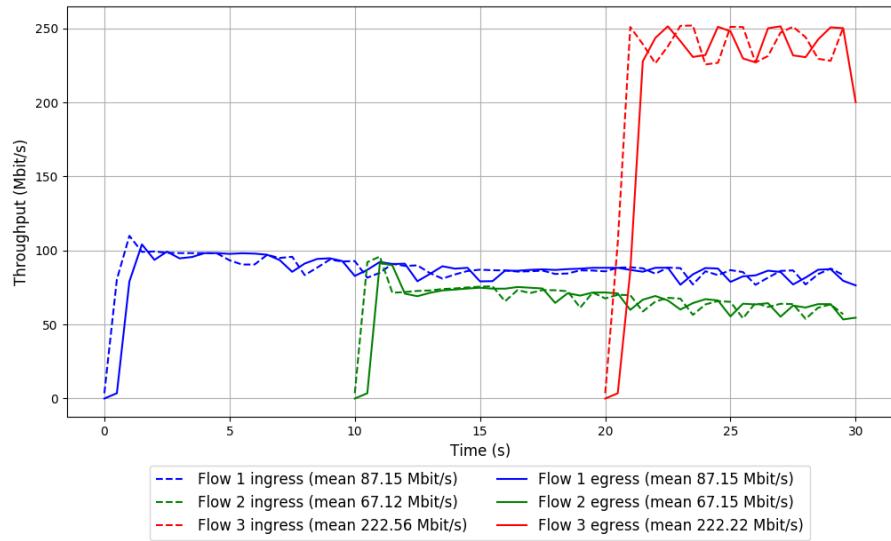


Run 5: Statistics of TCP Vegas

```
Start at: 2018-06-07 18:05:28
End at: 2018-06-07 18:05:58
Local clock offset: -0.136 ms
Remote clock offset: 0.235 ms

# Below is generated by plot.py at 2018-06-07 22:23:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 205.12 Mbit/s
95th percentile per-packet one-way delay: 55.637 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 87.15 Mbit/s
95th percentile per-packet one-way delay: 54.842 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 67.15 Mbit/s
95th percentile per-packet one-way delay: 54.626 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 222.22 Mbit/s
95th percentile per-packet one-way delay: 56.566 ms
Loss rate: 1.13%
```

Run 5: Report of TCP Vegas — Data Link

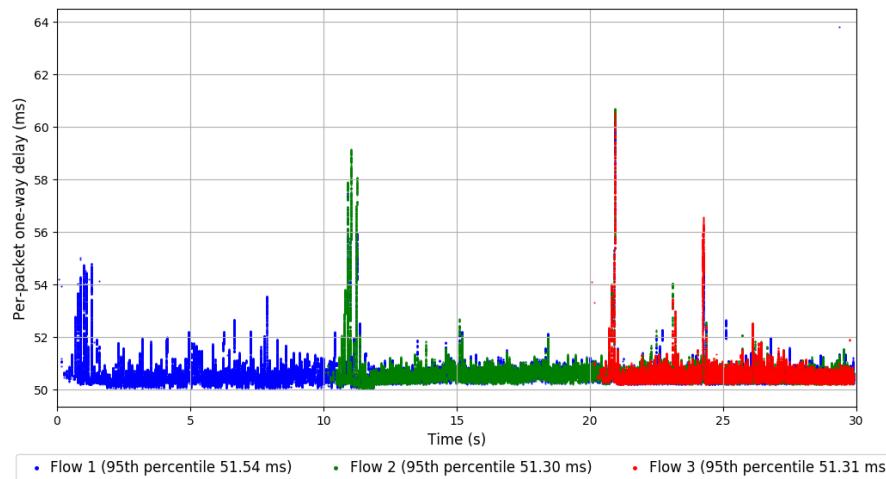
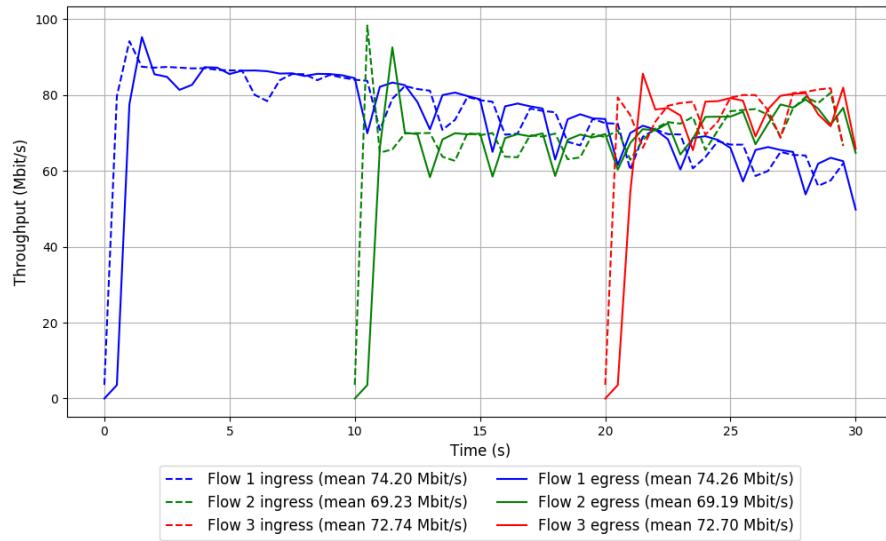


Run 6: Statistics of TCP Vegas

```
Start at: 2018-06-07 18:28:03
End at: 2018-06-07 18:28:33
Local clock offset: -0.048 ms
Remote clock offset: 0.557 ms

# Below is generated by plot.py at 2018-06-07 22:23:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 144.13 Mbit/s
95th percentile per-packet one-way delay: 51.426 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 74.26 Mbit/s
95th percentile per-packet one-way delay: 51.538 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 69.19 Mbit/s
95th percentile per-packet one-way delay: 51.301 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 72.70 Mbit/s
95th percentile per-packet one-way delay: 51.309 ms
Loss rate: 1.14%
```

Run 6: Report of TCP Vegas — Data Link

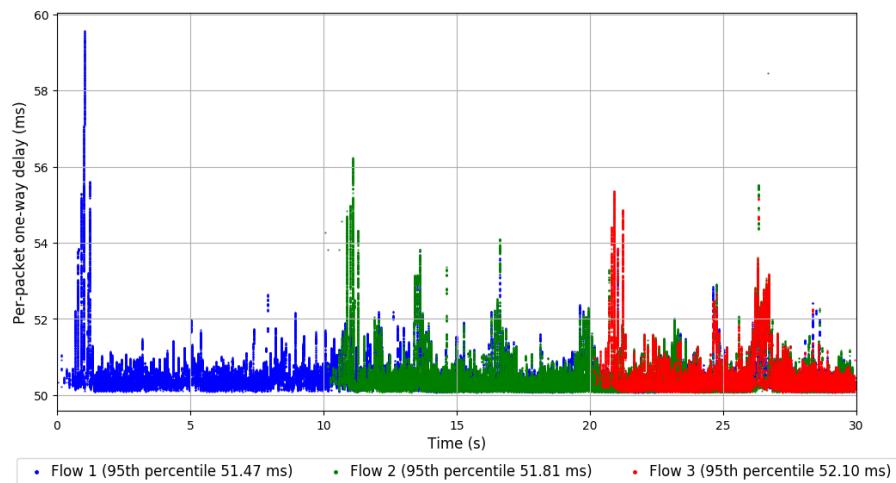
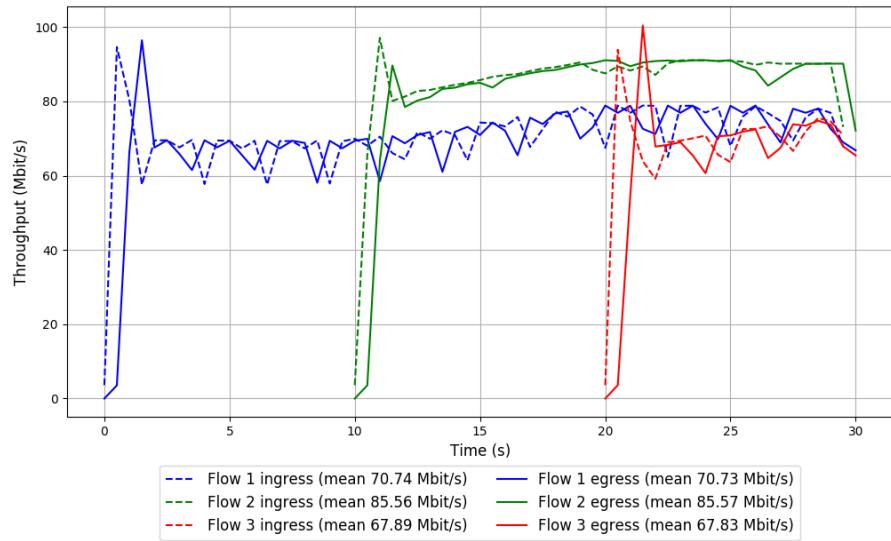


Run 7: Statistics of TCP Vegas

```
Start at: 2018-06-07 18:51:04
End at: 2018-06-07 18:51:34
Local clock offset: -0.013 ms
Remote clock offset: -0.089 ms

# Below is generated by plot.py at 2018-06-07 22:23:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 149.89 Mbit/s
95th percentile per-packet one-way delay: 51.674 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 70.73 Mbit/s
95th percentile per-packet one-way delay: 51.467 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 85.57 Mbit/s
95th percentile per-packet one-way delay: 51.810 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 67.83 Mbit/s
95th percentile per-packet one-way delay: 52.098 ms
Loss rate: 1.12%
```

Run 7: Report of TCP Vegas — Data Link

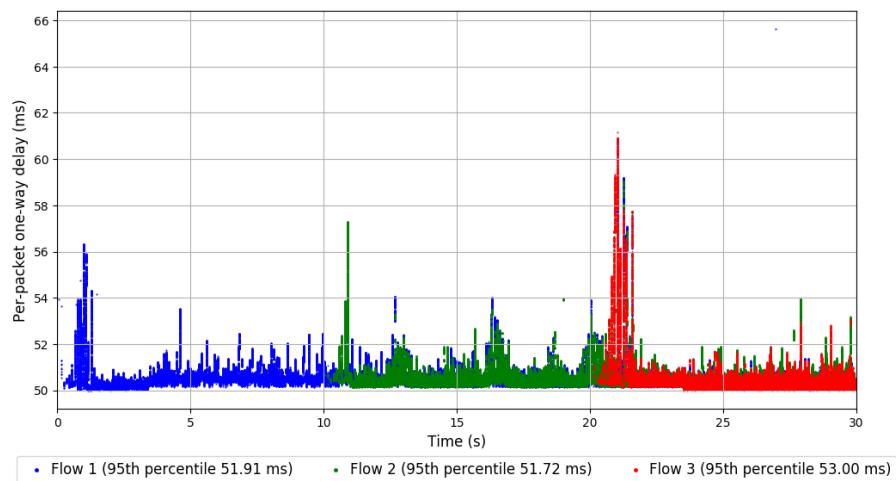
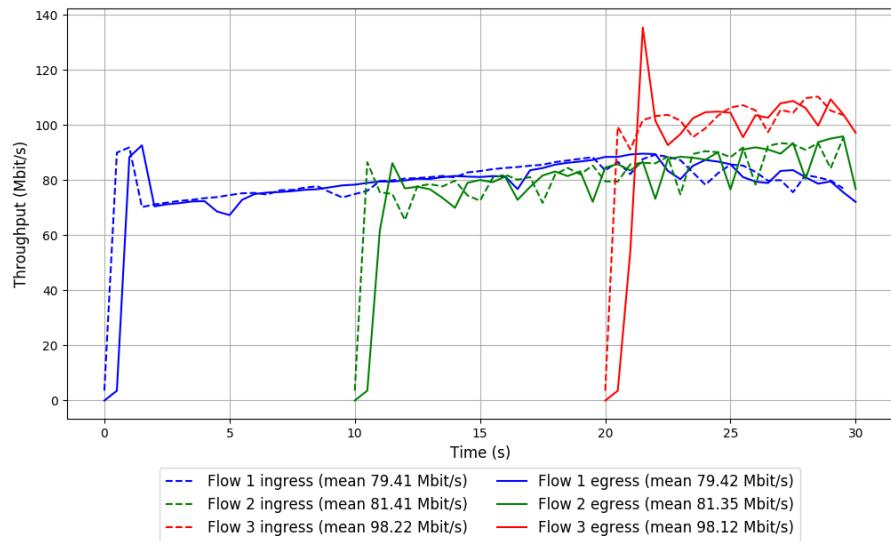


Run 8: Statistics of TCP Vegas

```
Start at: 2018-06-07 19:14:32
End at: 2018-06-07 19:15:02
Local clock offset: 0.277 ms
Remote clock offset: -0.049 ms

# Below is generated by plot.py at 2018-06-07 22:23:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 165.86 Mbit/s
95th percentile per-packet one-way delay: 51.900 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 79.42 Mbit/s
95th percentile per-packet one-way delay: 51.912 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 81.35 Mbit/s
95th percentile per-packet one-way delay: 51.723 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 98.12 Mbit/s
95th percentile per-packet one-way delay: 53.001 ms
Loss rate: 1.14%
```

Run 8: Report of TCP Vegas — Data Link

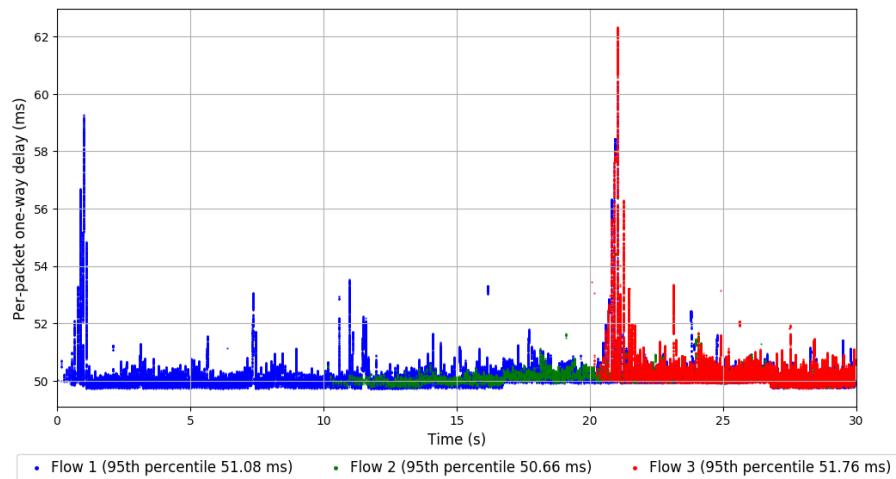
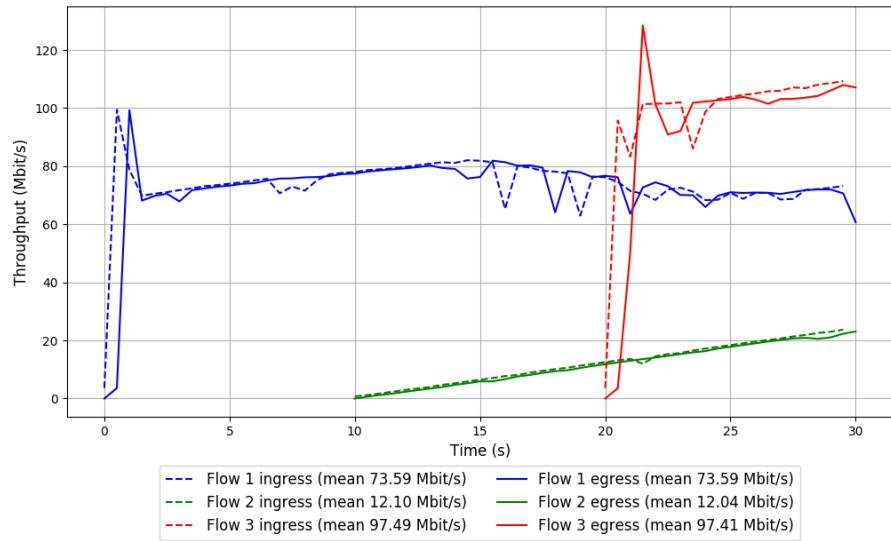


Run 9: Statistics of TCP Vegas

```
Start at: 2018-06-07 19:37:09
End at: 2018-06-07 19:37:39
Local clock offset: -0.165 ms
Remote clock offset: -0.405 ms

# Below is generated by plot.py at 2018-06-07 22:23:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 113.73 Mbit/s
95th percentile per-packet one-way delay: 51.226 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 73.59 Mbit/s
95th percentile per-packet one-way delay: 51.075 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 12.04 Mbit/s
95th percentile per-packet one-way delay: 50.662 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 97.41 Mbit/s
95th percentile per-packet one-way delay: 51.759 ms
Loss rate: 1.12%
```

Run 9: Report of TCP Vegas — Data Link

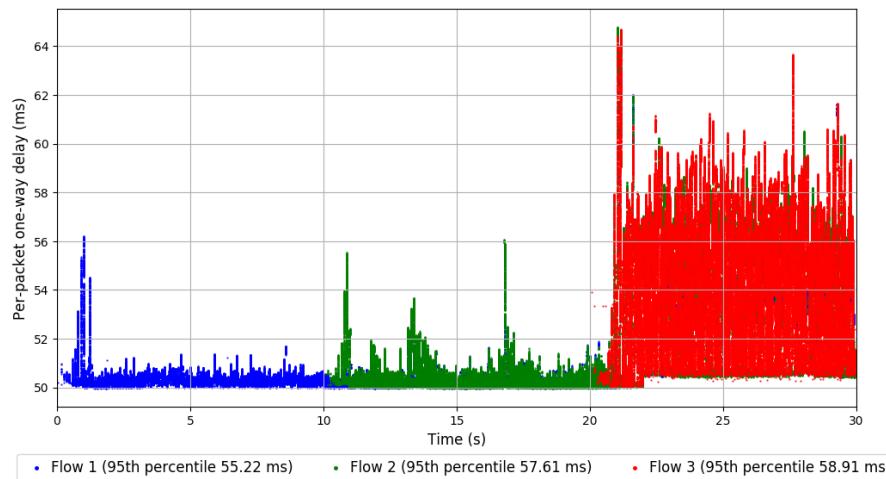
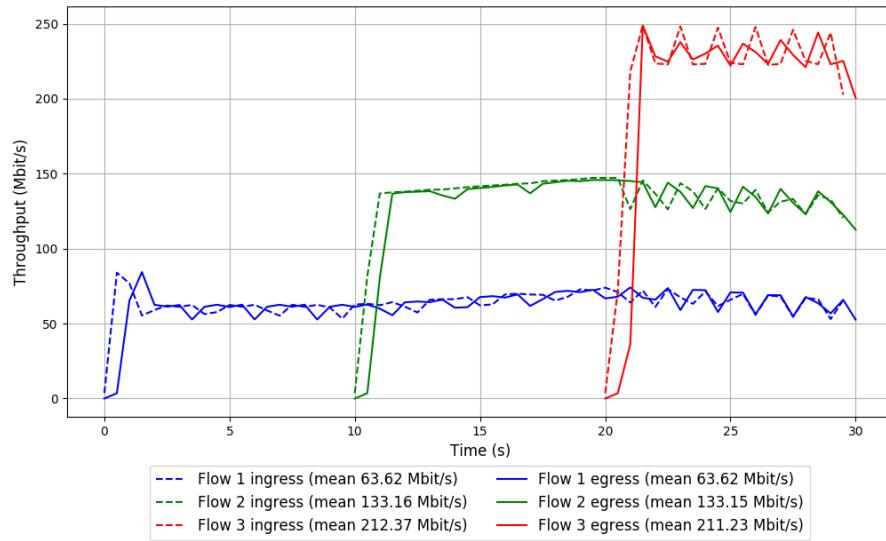


Run 10: Statistics of TCP Vegas

```
Start at: 2018-06-07 19:59:33
End at: 2018-06-07 20:00:03
Local clock offset: -0.2 ms
Remote clock offset: -0.307 ms

# Below is generated by plot.py at 2018-06-07 22:23:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 221.79 Mbit/s
95th percentile per-packet one-way delay: 58.040 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 63.62 Mbit/s
95th percentile per-packet one-way delay: 55.217 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 133.15 Mbit/s
95th percentile per-packet one-way delay: 57.610 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 211.23 Mbit/s
95th percentile per-packet one-way delay: 58.915 ms
Loss rate: 1.09%
```

Run 10: Report of TCP Vegas — Data Link

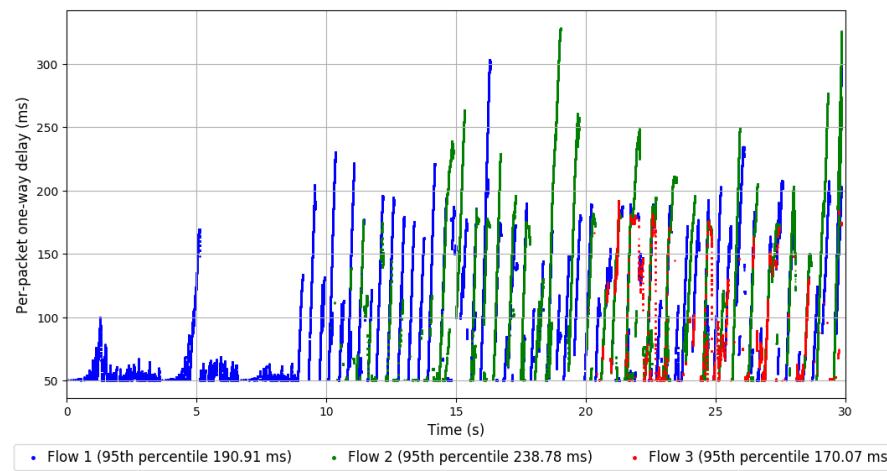
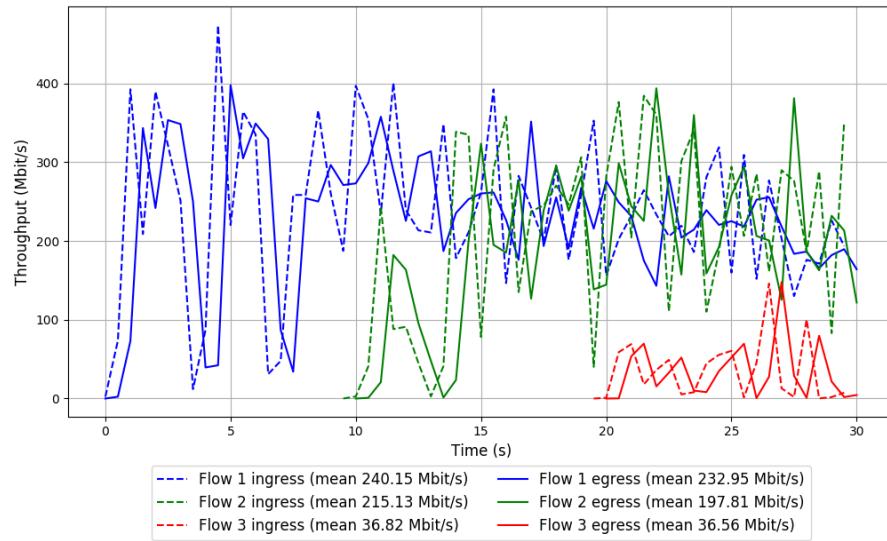


Run 1: Statistics of Verus

```
Start at: 2018-06-07 16:31:21
End at: 2018-06-07 16:31:51
Local clock offset: -0.057 ms
Remote clock offset: -1.131 ms

# Below is generated by plot.py at 2018-06-07 22:26:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 376.64 Mbit/s
95th percentile per-packet one-way delay: 211.945 ms
Loss rate: 4.36%
-- Flow 1:
Average throughput: 232.95 Mbit/s
95th percentile per-packet one-way delay: 190.907 ms
Loss rate: 2.47%
-- Flow 2:
Average throughput: 197.81 Mbit/s
95th percentile per-packet one-way delay: 238.785 ms
Loss rate: 7.78%
-- Flow 3:
Average throughput: 36.56 Mbit/s
95th percentile per-packet one-way delay: 170.067 ms
Loss rate: 1.58%
```

Run 1: Report of Verus — Data Link

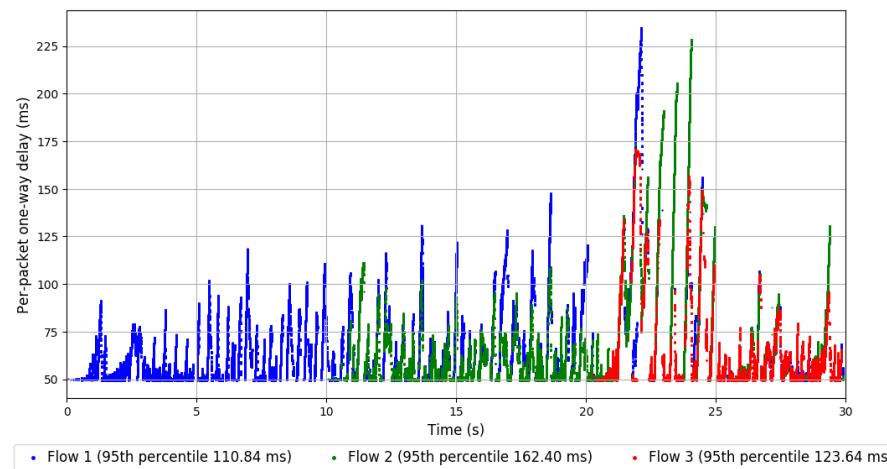
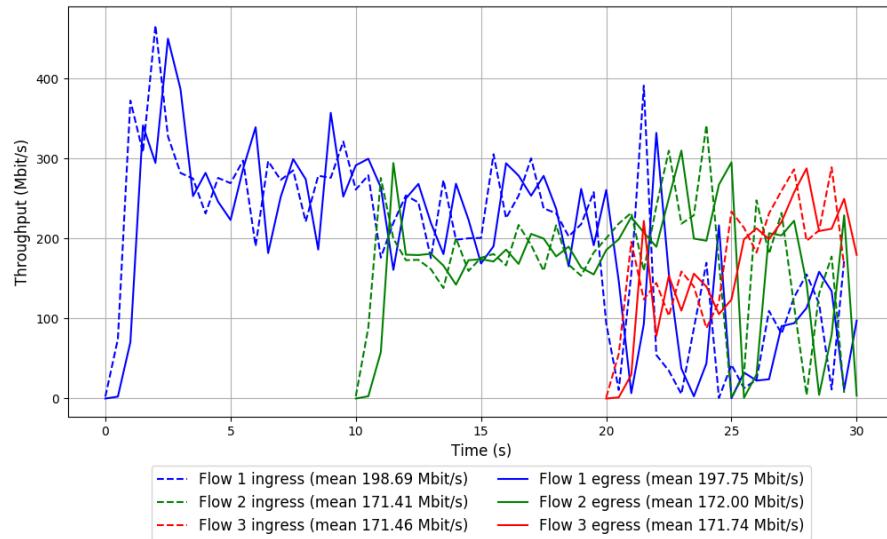


Run 2: Statistics of Verus

```
Start at: 2018-06-07 16:54:06
End at: 2018-06-07 16:54:36
Local clock offset: -0.194 ms
Remote clock offset: -0.305 ms

# Below is generated by plot.py at 2018-06-07 22:26:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 368.18 Mbit/s
95th percentile per-packet one-way delay: 130.688 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 197.75 Mbit/s
95th percentile per-packet one-way delay: 110.841 ms
Loss rate: 0.82%
-- Flow 2:
Average throughput: 172.00 Mbit/s
95th percentile per-packet one-way delay: 162.400 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 171.74 Mbit/s
95th percentile per-packet one-way delay: 123.641 ms
Loss rate: 1.57%
```

Run 2: Report of Verus — Data Link

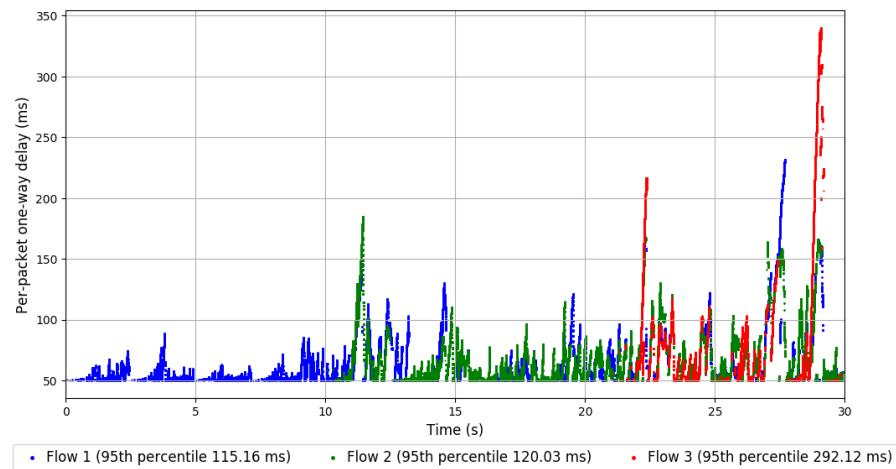
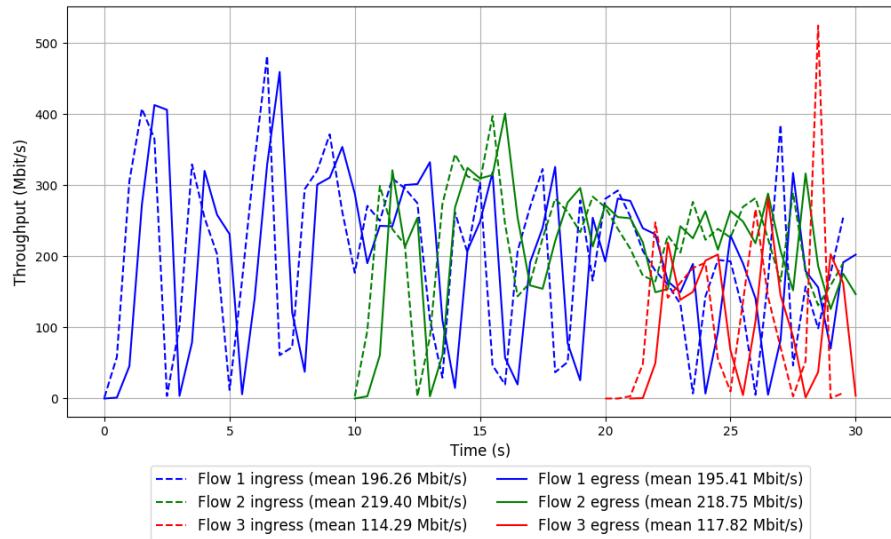


Run 3: Statistics of Verus

```
Start at: 2018-06-07 17:16:29
End at: 2018-06-07 17:16:59
Local clock offset: -0.082 ms
Remote clock offset: -0.086 ms

# Below is generated by plot.py at 2018-06-07 22:26:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 375.26 Mbit/s
95th percentile per-packet one-way delay: 129.928 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 195.41 Mbit/s
95th percentile per-packet one-way delay: 115.158 ms
Loss rate: 0.75%
-- Flow 2:
Average throughput: 218.75 Mbit/s
95th percentile per-packet one-way delay: 120.030 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 117.82 Mbit/s
95th percentile per-packet one-way delay: 292.125 ms
Loss rate: 8.54%
```

Run 3: Report of Verus — Data Link

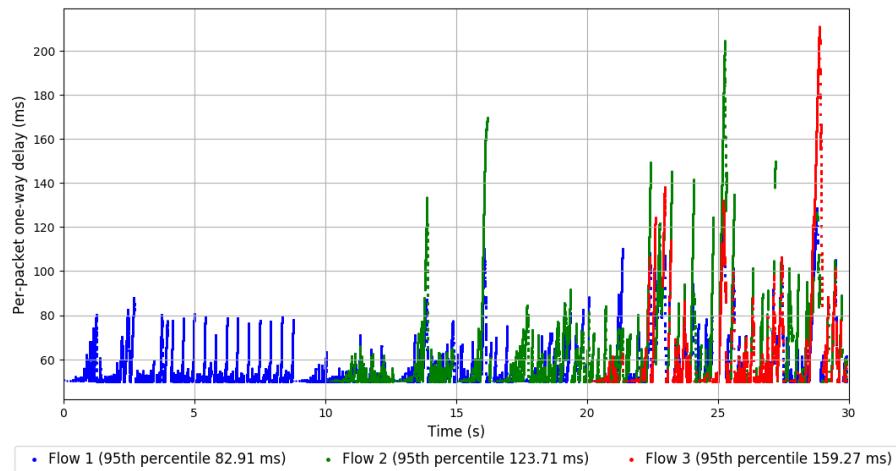
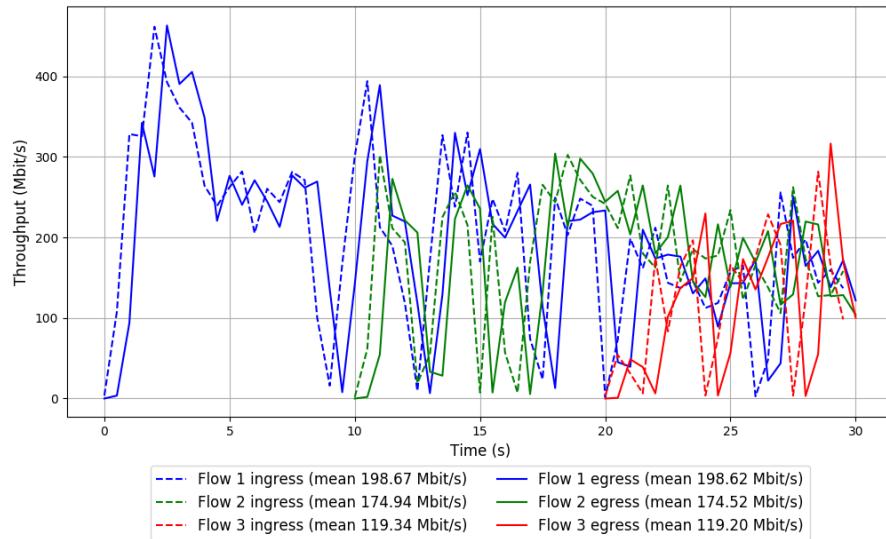


Run 4: Statistics of Verus

```
Start at: 2018-06-07 17:39:36
End at: 2018-06-07 17:40:06
Local clock offset: 0.141 ms
Remote clock offset: 0.363 ms

# Below is generated by plot.py at 2018-06-07 22:26:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 353.80 Mbit/s
95th percentile per-packet one-way delay: 105.607 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 198.62 Mbit/s
95th percentile per-packet one-way delay: 82.908 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 174.52 Mbit/s
95th percentile per-packet one-way delay: 123.709 ms
Loss rate: 0.78%
-- Flow 3:
Average throughput: 119.20 Mbit/s
95th percentile per-packet one-way delay: 159.269 ms
Loss rate: 1.16%
```

Run 4: Report of Verus — Data Link

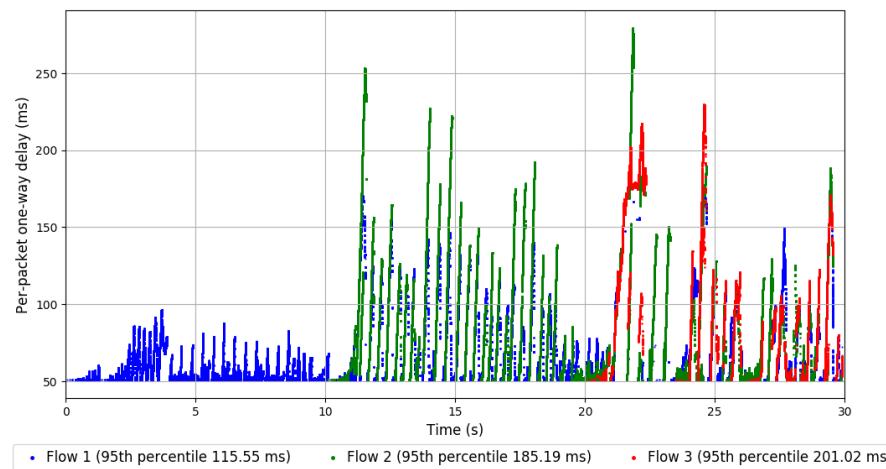
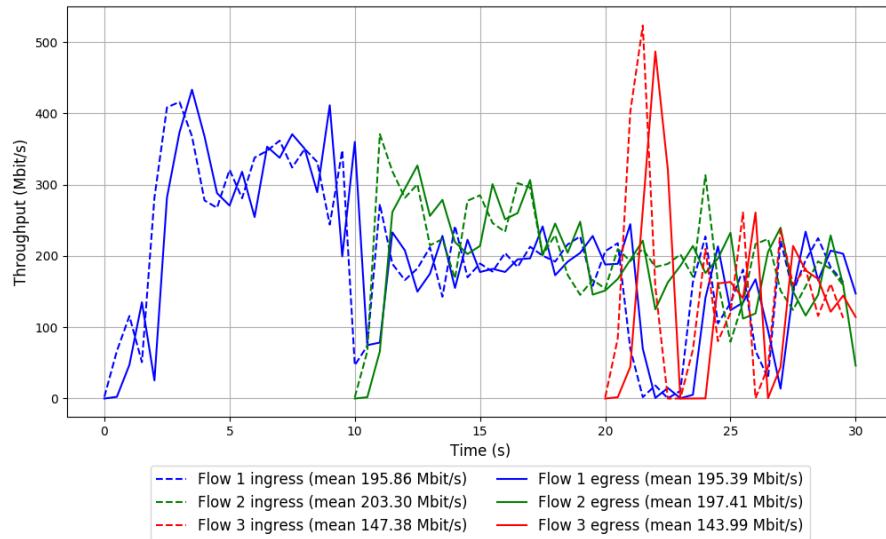


Run 5: Statistics of Verus

```
Start at: 2018-06-07 18:02:36
End at: 2018-06-07 18:03:06
Local clock offset: 0.323 ms
Remote clock offset: 0.166 ms

# Below is generated by plot.py at 2018-06-07 22:27:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 373.99 Mbit/s
95th percentile per-packet one-way delay: 176.194 ms
Loss rate: 1.88%
-- Flow 1:
Average throughput: 195.39 Mbit/s
95th percentile per-packet one-way delay: 115.548 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 197.41 Mbit/s
95th percentile per-packet one-way delay: 185.185 ms
Loss rate: 3.40%
-- Flow 3:
Average throughput: 143.99 Mbit/s
95th percentile per-packet one-way delay: 201.024 ms
Loss rate: 3.09%
```

Run 5: Report of Verus — Data Link

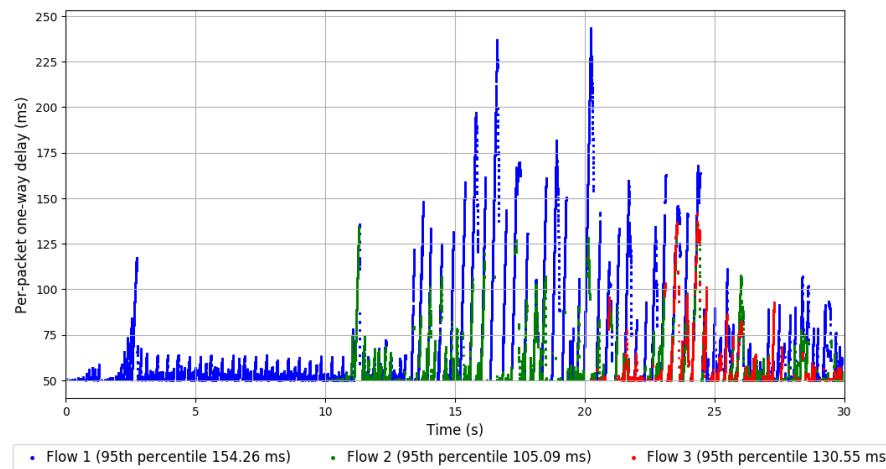
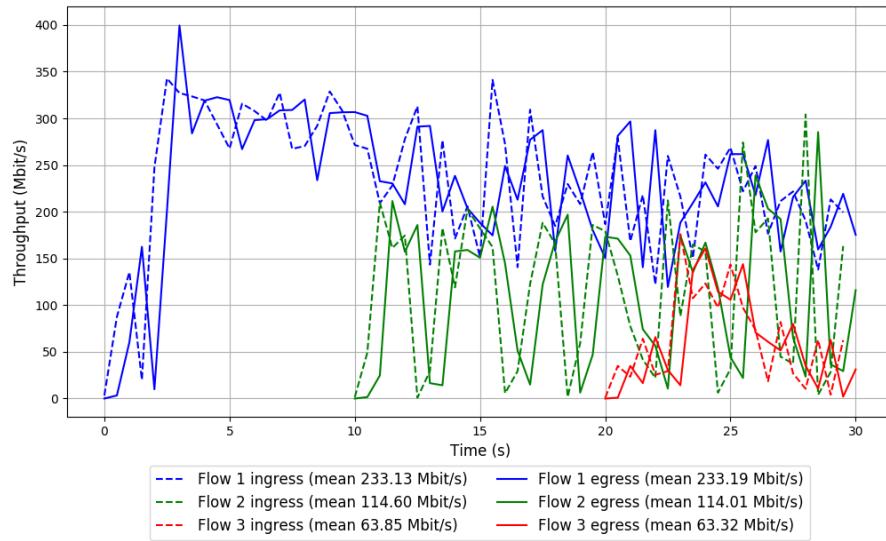


Run 6: Statistics of Verus

```
Start at: 2018-06-07 18:25:14
End at: 2018-06-07 18:25:44
Local clock offset: -0.116 ms
Remote clock offset: 0.412 ms

# Below is generated by plot.py at 2018-06-07 22:27:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 329.49 Mbit/s
95th percentile per-packet one-way delay: 140.923 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 233.19 Mbit/s
95th percentile per-packet one-way delay: 154.256 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 114.01 Mbit/s
95th percentile per-packet one-way delay: 105.094 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 63.32 Mbit/s
95th percentile per-packet one-way delay: 130.551 ms
Loss rate: 2.64%
```

Run 6: Report of Verus — Data Link

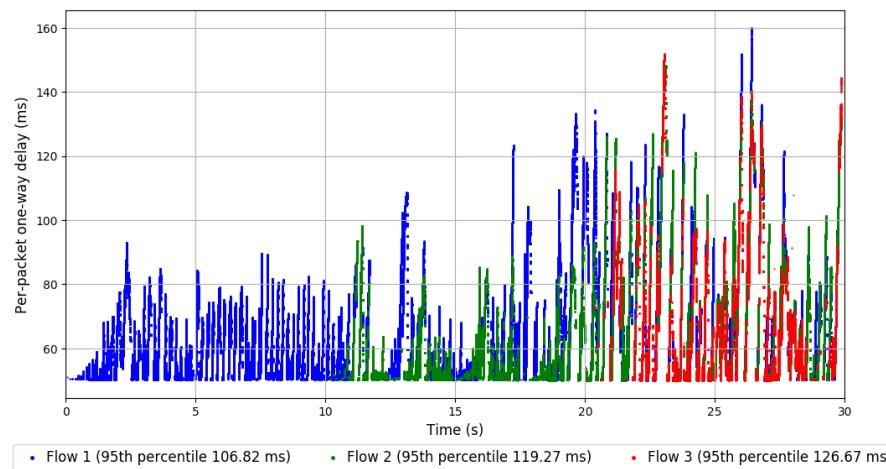
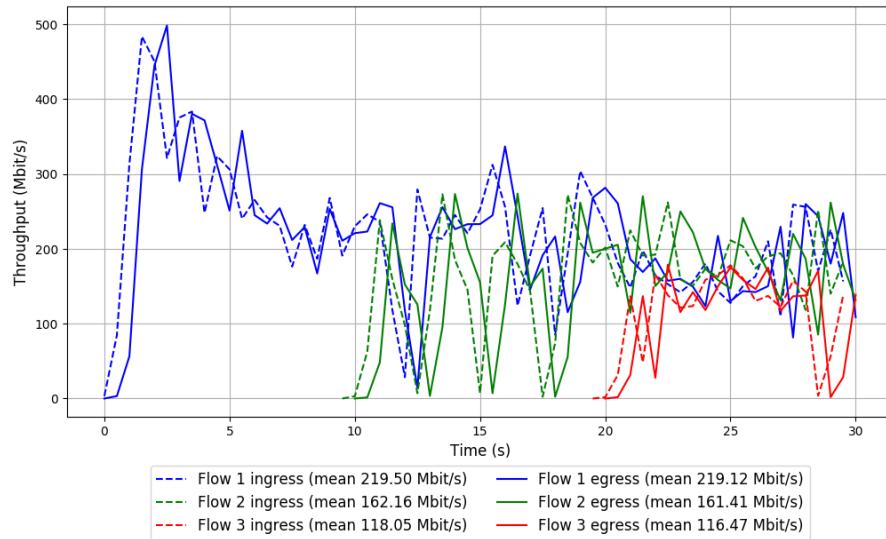


Run 7: Statistics of Verus

```
Start at: 2018-06-07 18:48:08
End at: 2018-06-07 18:48:38
Local clock offset: -0.056 ms
Remote clock offset: -0.208 ms

# Below is generated by plot.py at 2018-06-07 22:29:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 364.97 Mbit/s
95th percentile per-packet one-way delay: 113.541 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 219.12 Mbit/s
95th percentile per-packet one-way delay: 106.816 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 161.41 Mbit/s
95th percentile per-packet one-way delay: 119.274 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 116.47 Mbit/s
95th percentile per-packet one-way delay: 126.665 ms
Loss rate: 1.24%
```

Run 7: Report of Verus — Data Link

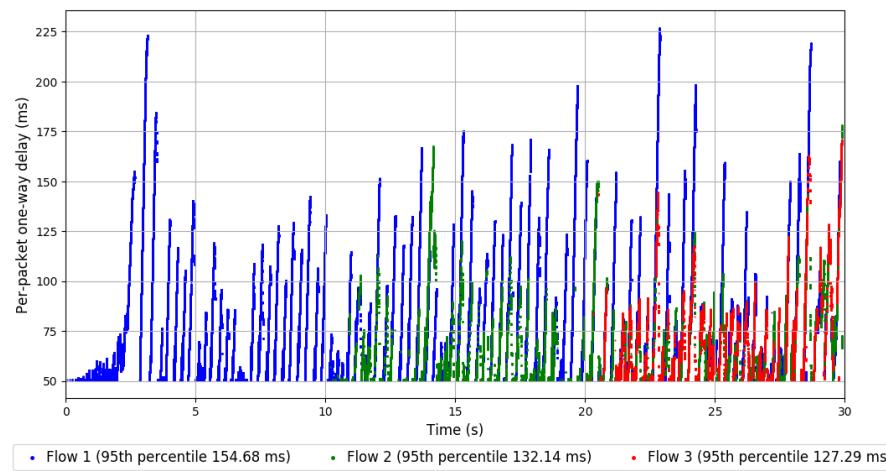
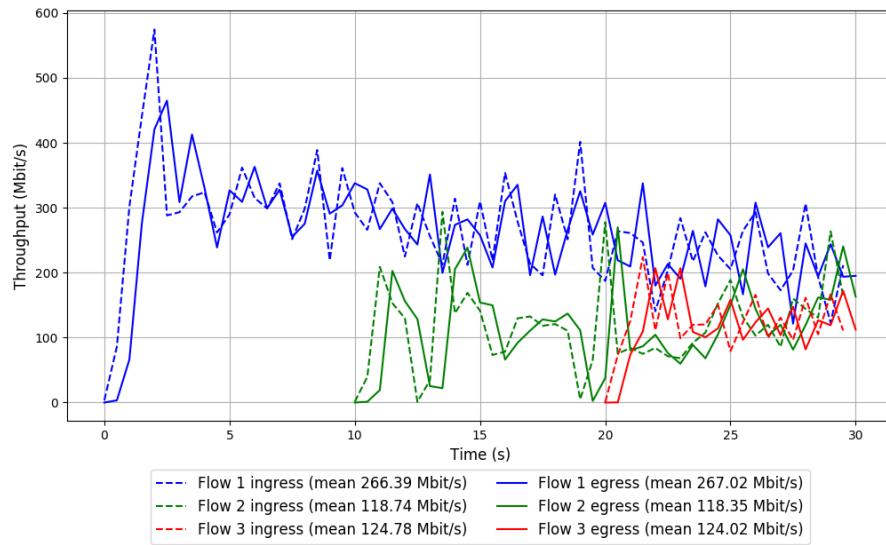


Run 8: Statistics of Verus

```
Start at: 2018-06-07 19:11:37
End at: 2018-06-07 19:12:07
Local clock offset: 0.038 ms
Remote clock offset: -0.603 ms

# Below is generated by plot.py at 2018-06-07 22:30:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 386.14 Mbit/s
95th percentile per-packet one-way delay: 148.927 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 267.02 Mbit/s
95th percentile per-packet one-way delay: 154.676 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 118.35 Mbit/s
95th percentile per-packet one-way delay: 132.137 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 124.02 Mbit/s
95th percentile per-packet one-way delay: 127.287 ms
Loss rate: 1.17%
```

Run 8: Report of Verus — Data Link

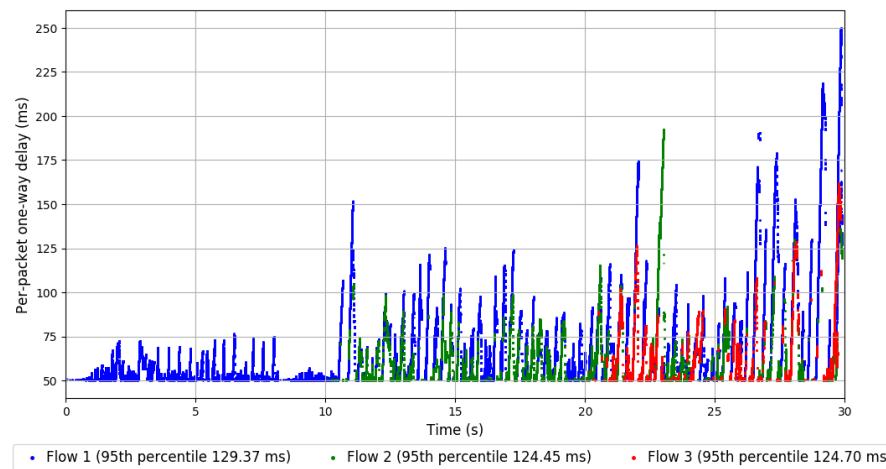
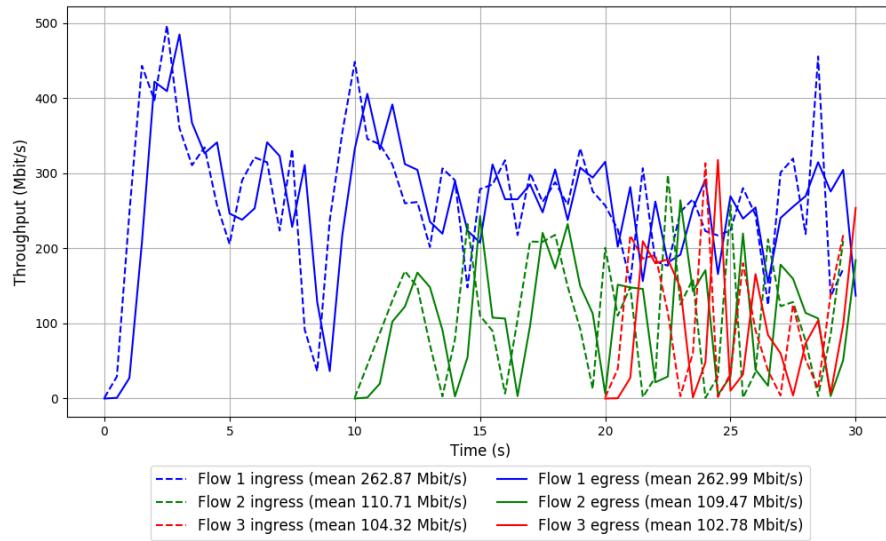


Run 9: Statistics of Verus

```
Start at: 2018-06-07 19:34:16
End at: 2018-06-07 19:34:46
Local clock offset: 0.129 ms
Remote clock offset: -0.487 ms

# Below is generated by plot.py at 2018-06-07 22:32:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 369.45 Mbit/s
95th percentile per-packet one-way delay: 126.840 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 262.99 Mbit/s
95th percentile per-packet one-way delay: 129.365 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 109.47 Mbit/s
95th percentile per-packet one-way delay: 124.449 ms
Loss rate: 1.35%
-- Flow 3:
Average throughput: 102.78 Mbit/s
95th percentile per-packet one-way delay: 124.696 ms
Loss rate: 0.56%
```

Run 9: Report of Verus — Data Link

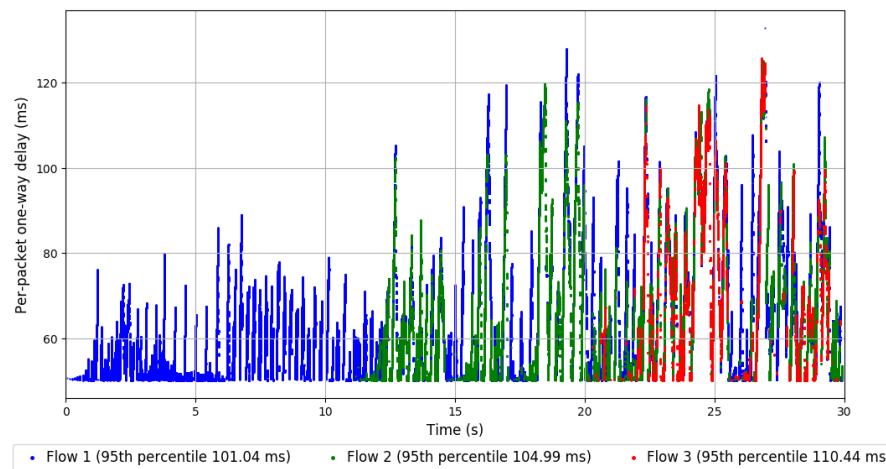
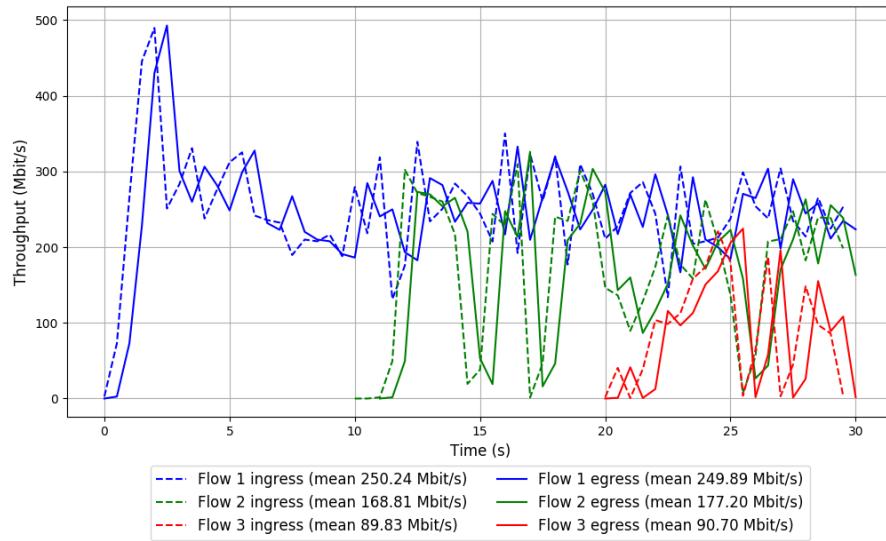


Run 10: Statistics of Verus

```
Start at: 2018-06-07 19:56:40
End at: 2018-06-07 19:57:10
Local clock offset: 0.259 ms
Remote clock offset: -0.058 ms

# Below is generated by plot.py at 2018-06-07 22:32:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 391.35 Mbit/s
95th percentile per-packet one-way delay: 103.800 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 249.89 Mbit/s
95th percentile per-packet one-way delay: 101.044 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 177.20 Mbit/s
95th percentile per-packet one-way delay: 104.988 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 90.70 Mbit/s
95th percentile per-packet one-way delay: 110.443 ms
Loss rate: 0.11%
```

Run 10: Report of Verus — Data Link

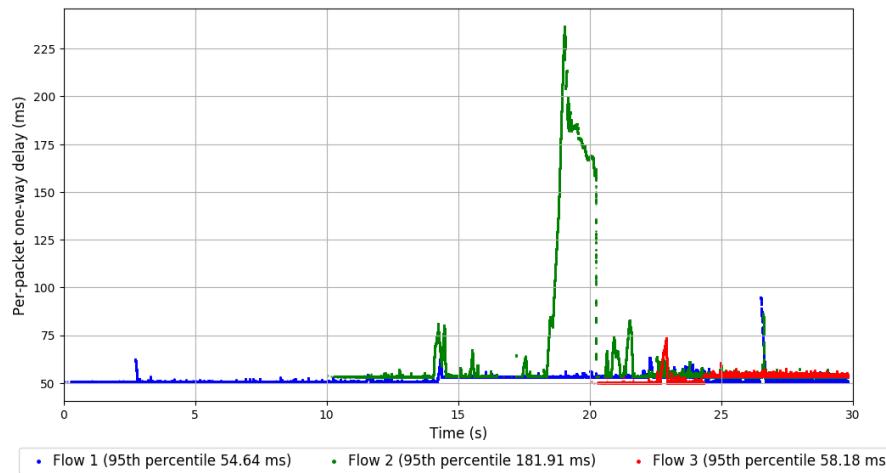
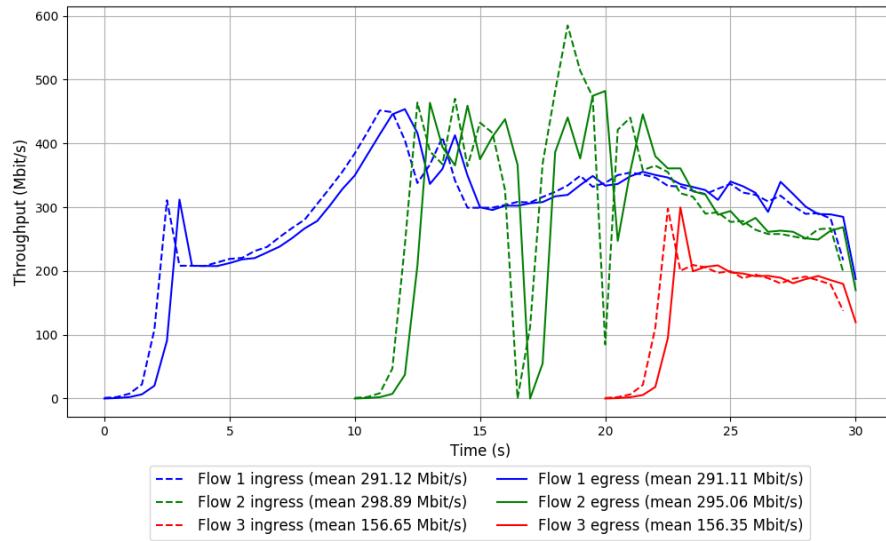


Run 1: Statistics of PCC-Vivace

```
Start at: 2018-06-07 16:44:58
End at: 2018-06-07 16:45:28
Local clock offset: 0.114 ms
Remote clock offset: -0.891 ms

# Below is generated by plot.py at 2018-06-07 22:36:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 538.19 Mbit/s
95th percentile per-packet one-way delay: 82.157 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 291.11 Mbit/s
95th percentile per-packet one-way delay: 54.636 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 295.06 Mbit/s
95th percentile per-packet one-way delay: 181.909 ms
Loss rate: 1.80%
-- Flow 3:
Average throughput: 156.35 Mbit/s
95th percentile per-packet one-way delay: 58.181 ms
Loss rate: 1.21%
```

Run 1: Report of PCC-Vivace — Data Link

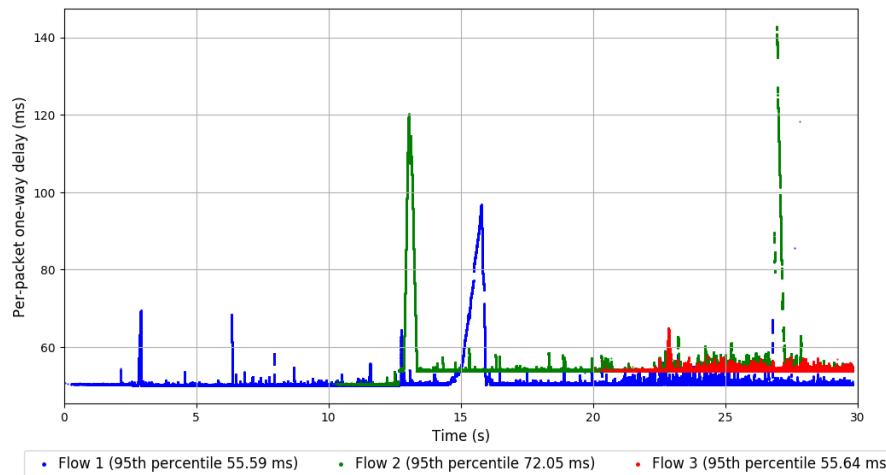
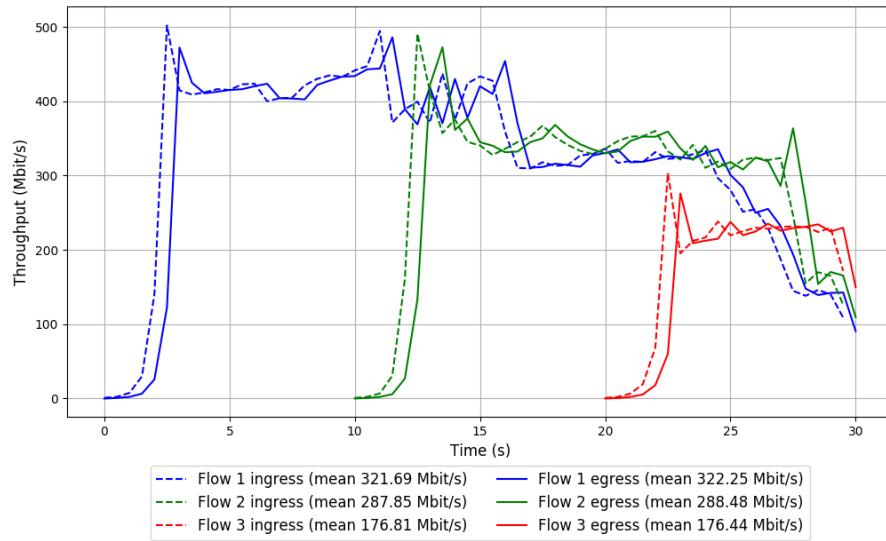


Run 2: Statistics of PCC-Vivace

```
Start at: 2018-06-07 17:07:20
End at: 2018-06-07 17:07:50
Local clock offset: 0.068 ms
Remote clock offset: -0.073 ms

# Below is generated by plot.py at 2018-06-07 22:36:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 571.51 Mbit/s
95th percentile per-packet one-way delay: 58.593 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 322.25 Mbit/s
95th percentile per-packet one-way delay: 55.586 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 288.48 Mbit/s
95th percentile per-packet one-way delay: 72.045 ms
Loss rate: 0.30%
-- Flow 3:
Average throughput: 176.44 Mbit/s
95th percentile per-packet one-way delay: 55.638 ms
Loss rate: 1.27%
```

Run 2: Report of PCC-Vivace — Data Link

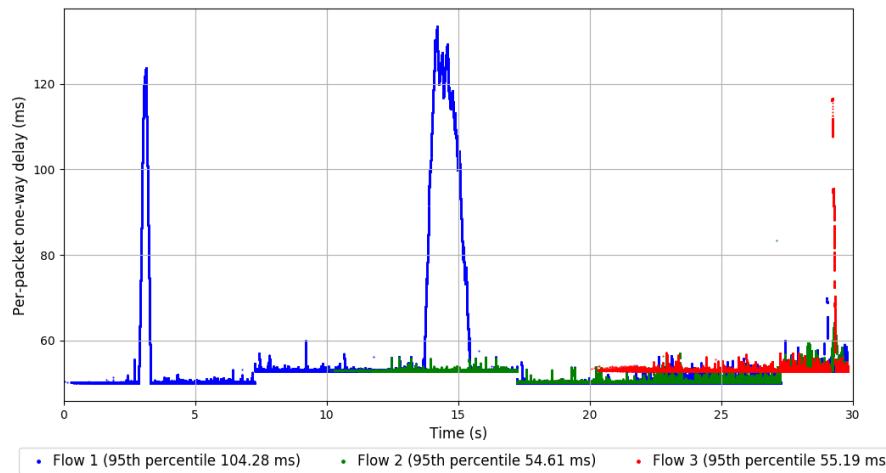
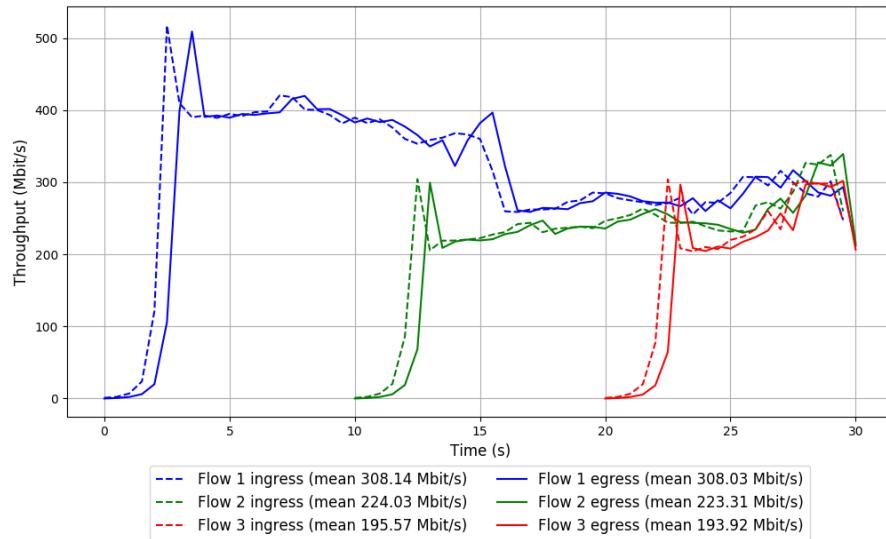


Run 3: Statistics of PCC-Vivace

```
Start at: 2018-06-07 17:30:28
End at: 2018-06-07 17:30:58
Local clock offset: 0.057 ms
Remote clock offset: 0.482 ms

# Below is generated by plot.py at 2018-06-07 22:36:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 519.76 Mbit/s
95th percentile per-packet one-way delay: 73.652 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 308.03 Mbit/s
95th percentile per-packet one-way delay: 104.282 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 223.31 Mbit/s
95th percentile per-packet one-way delay: 54.609 ms
Loss rate: 0.86%
-- Flow 3:
Average throughput: 193.92 Mbit/s
95th percentile per-packet one-way delay: 55.189 ms
Loss rate: 1.93%
```

Run 3: Report of PCC-Vivace — Data Link

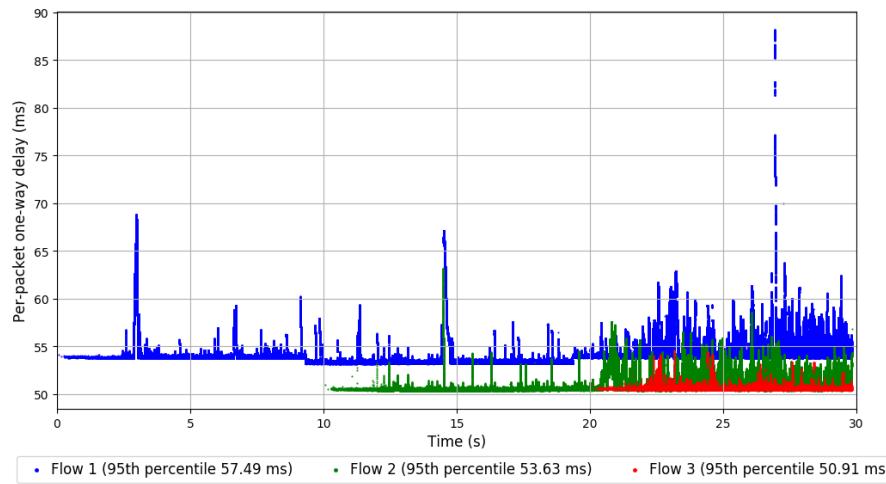
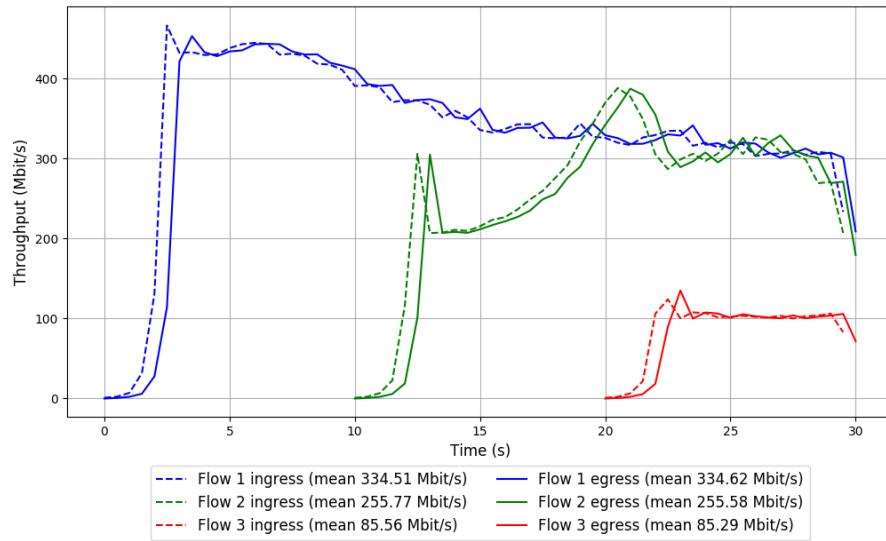


Run 4: Statistics of PCC-Vivace

```
Start at: 2018-06-07 17:53:26
End at: 2018-06-07 17:53:56
Local clock offset: 0.072 ms
Remote clock offset: 0.191 ms

# Below is generated by plot.py at 2018-06-07 22:37:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 532.20 Mbit/s
95th percentile per-packet one-way delay: 56.515 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 334.62 Mbit/s
95th percentile per-packet one-way delay: 57.488 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 255.58 Mbit/s
95th percentile per-packet one-way delay: 53.634 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 85.29 Mbit/s
95th percentile per-packet one-way delay: 50.915 ms
Loss rate: 1.34%
```

Run 4: Report of PCC-Vivace — Data Link

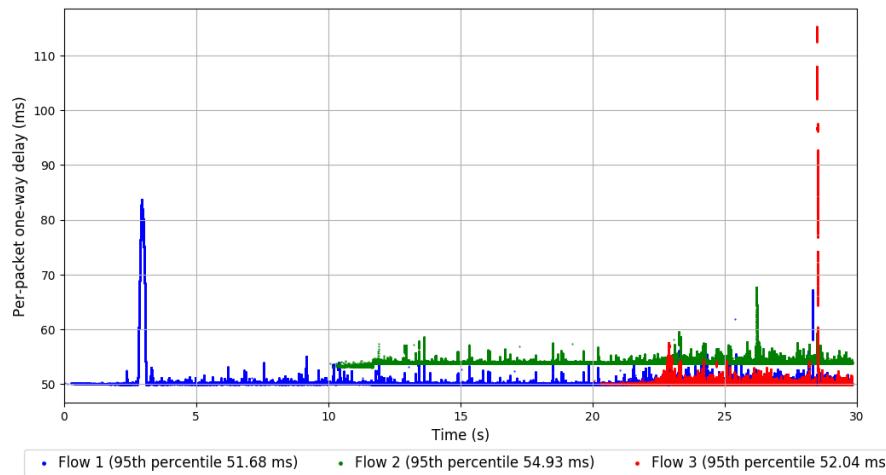
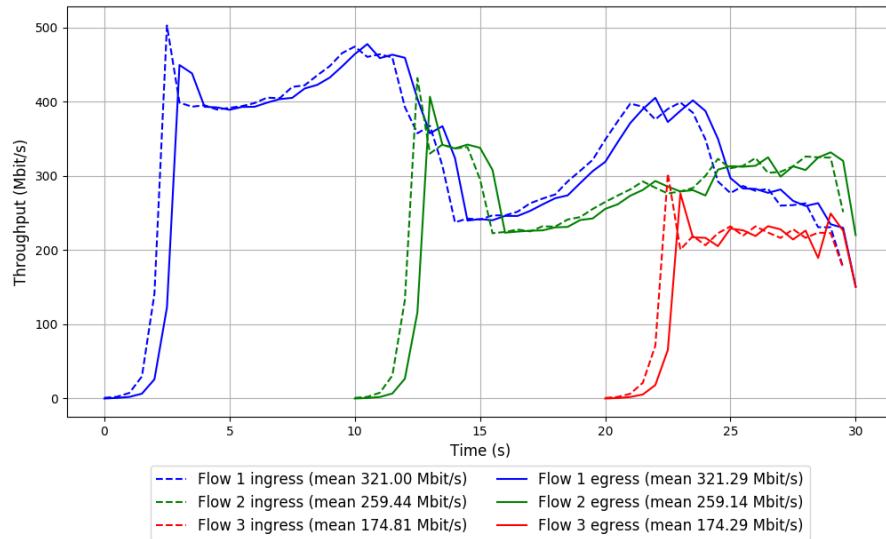


Run 5: Statistics of PCC-Vivace

```
Start at: 2018-06-07 18:16:04
End at: 2018-06-07 18:16:34
Local clock offset: -0.11 ms
Remote clock offset: 0.469 ms

# Below is generated by plot.py at 2018-06-07 22:39:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 550.36 Mbit/s
95th percentile per-packet one-way delay: 54.183 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 321.29 Mbit/s
95th percentile per-packet one-way delay: 51.681 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 259.14 Mbit/s
95th percentile per-packet one-way delay: 54.930 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 174.29 Mbit/s
95th percentile per-packet one-way delay: 52.039 ms
Loss rate: 1.34%
```

Run 5: Report of PCC-Vivace — Data Link

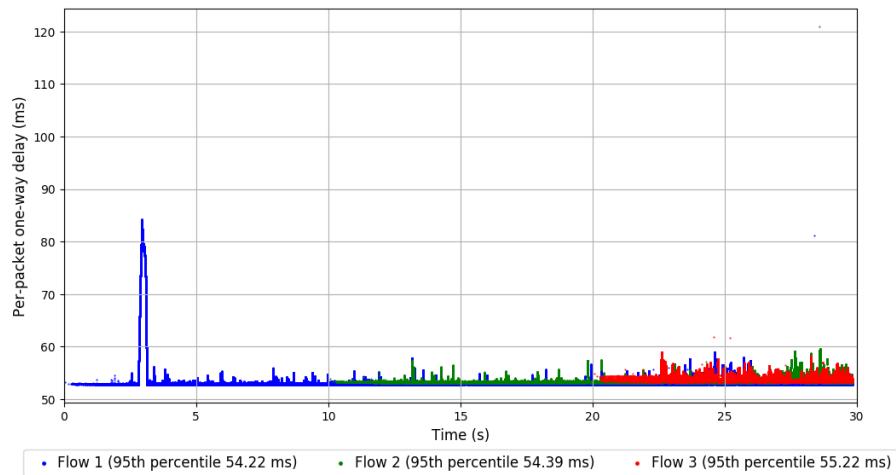
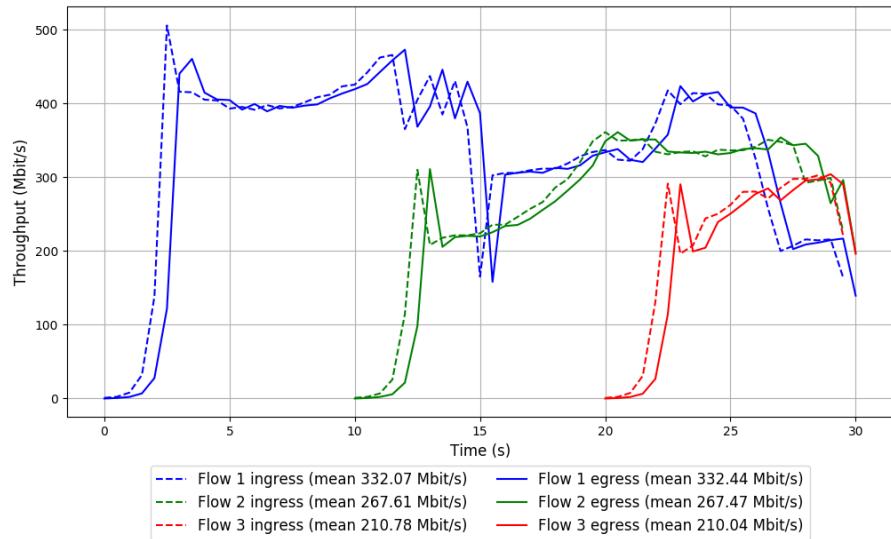


Run 6: Statistics of PCC-Vivace

```
Start at: 2018-06-07 18:38:56
End at: 2018-06-07 18:39:26
Local clock offset: -0.2 ms
Remote clock offset: 0.496 ms

# Below is generated by plot.py at 2018-06-07 22:39:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 578.81 Mbit/s
95th percentile per-packet one-way delay: 54.543 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 332.44 Mbit/s
95th percentile per-packet one-way delay: 54.217 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 267.47 Mbit/s
95th percentile per-packet one-way delay: 54.389 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 210.04 Mbit/s
95th percentile per-packet one-way delay: 55.216 ms
Loss rate: 1.42%
```

Run 6: Report of PCC-Vivace — Data Link

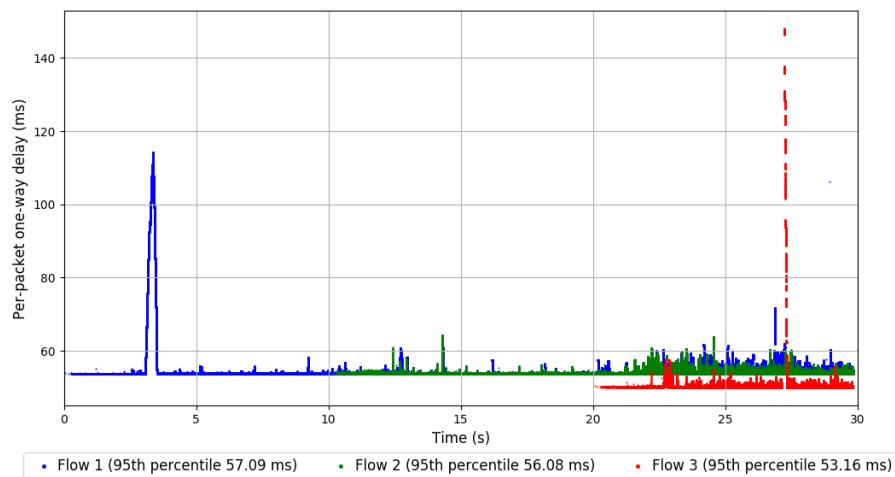
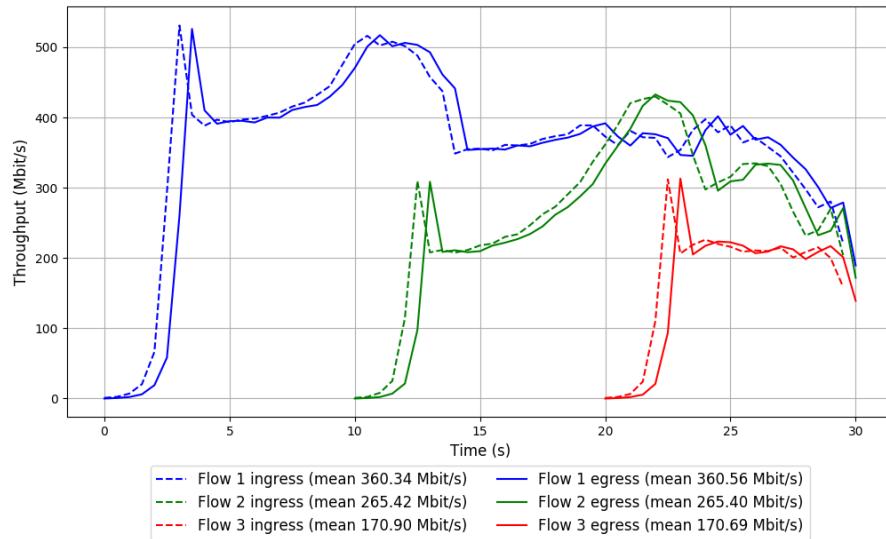


Run 7: Statistics of PCC-Vivace

```
Start at: 2018-06-07 19:02:23
End at: 2018-06-07 19:02:53
Local clock offset: 0.363 ms
Remote clock offset: 0.165 ms

# Below is generated by plot.py at 2018-06-07 22:41:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 592.70 Mbit/s
95th percentile per-packet one-way delay: 56.573 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 360.56 Mbit/s
95th percentile per-packet one-way delay: 57.095 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 265.40 Mbit/s
95th percentile per-packet one-way delay: 56.084 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 170.69 Mbit/s
95th percentile per-packet one-way delay: 53.161 ms
Loss rate: 1.18%
```

Run 7: Report of PCC-Vivace — Data Link

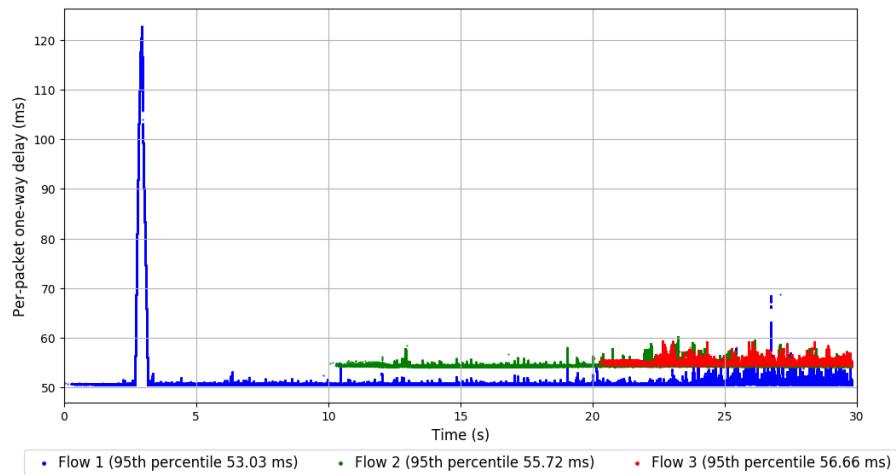
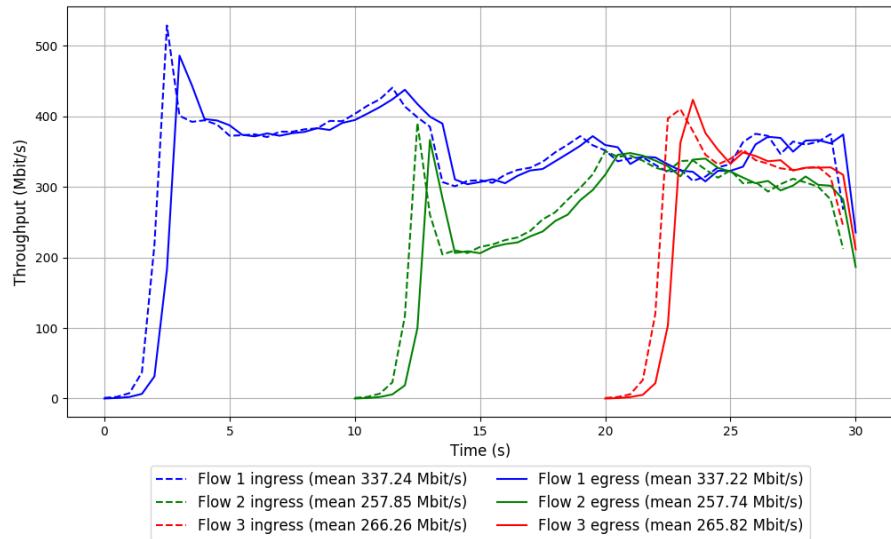


Run 8: Statistics of PCC-Vivace

```
Start at: 2018-06-07 19:25:02
End at: 2018-06-07 19:25:32
Local clock offset: 0.281 ms
Remote clock offset: -0.724 ms

# Below is generated by plot.py at 2018-06-07 22:41:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 595.35 Mbit/s
95th percentile per-packet one-way delay: 55.697 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 337.22 Mbit/s
95th percentile per-packet one-way delay: 53.033 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 257.74 Mbit/s
95th percentile per-packet one-way delay: 55.717 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 265.82 Mbit/s
95th percentile per-packet one-way delay: 56.664 ms
Loss rate: 1.24%
```

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

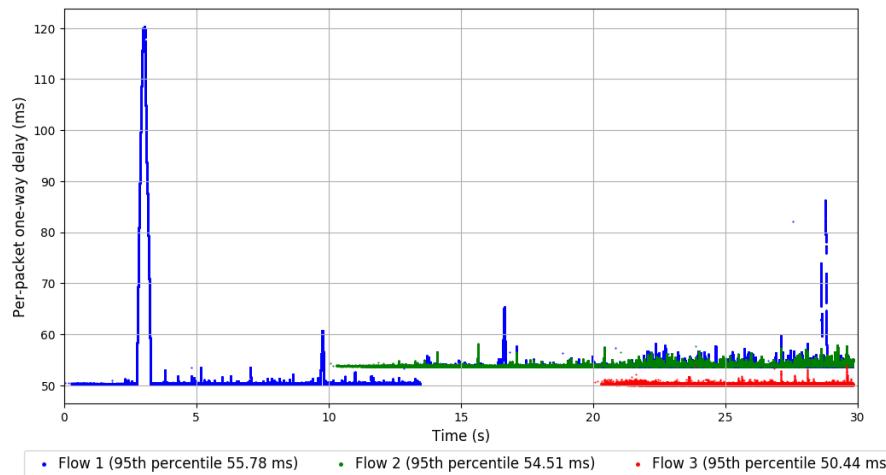
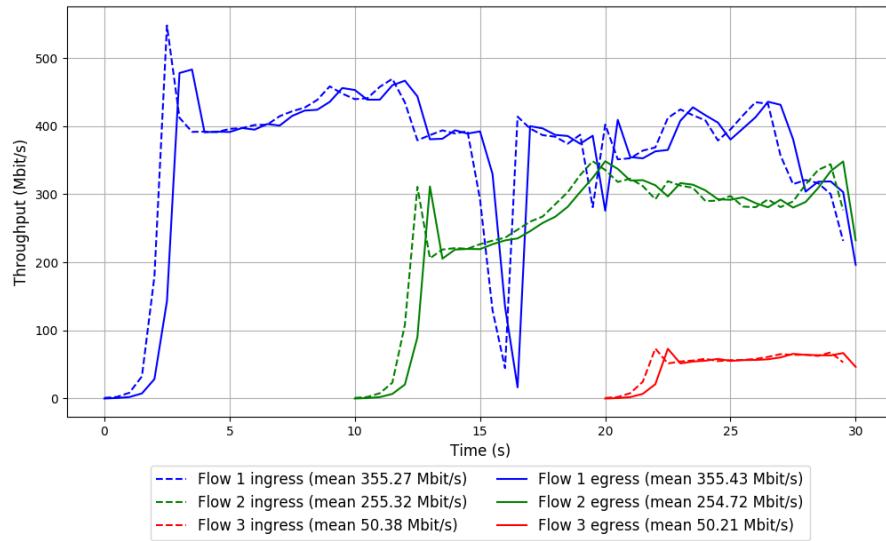


Run 9: Statistics of PCC-Vivace

```
Start at: 2018-06-07 19:47:32
End at: 2018-06-07 19:48:02
Local clock offset: 0.27 ms
Remote clock offset: -0.067 ms

# Below is generated by plot.py at 2018-06-07 22:41:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 540.89 Mbit/s
95th percentile per-packet one-way delay: 55.030 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 355.43 Mbit/s
95th percentile per-packet one-way delay: 55.780 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 254.72 Mbit/s
95th percentile per-packet one-way delay: 54.506 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 50.21 Mbit/s
95th percentile per-packet one-way delay: 50.444 ms
Loss rate: 1.40%
```

Run 9: Report of PCC-Vivace — Data Link

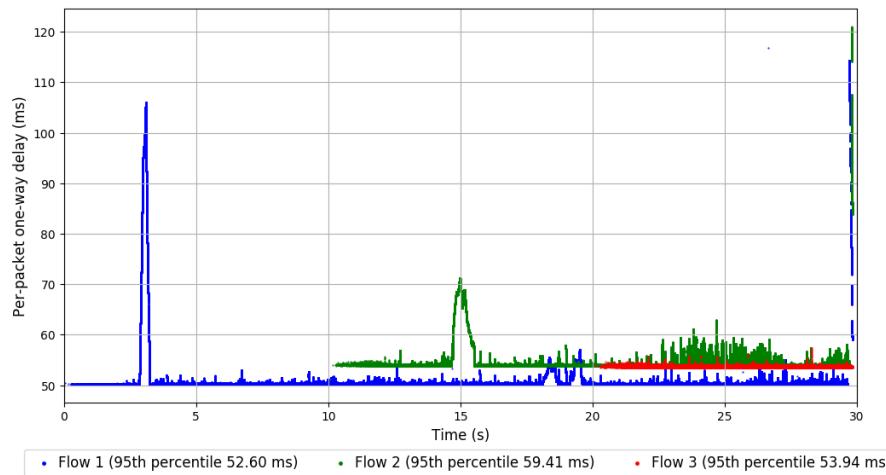
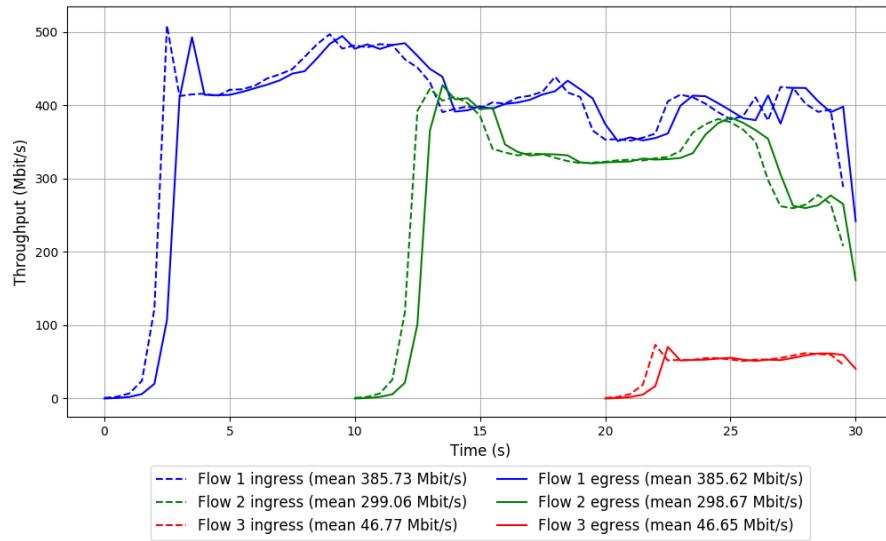


Run 10: Statistics of PCC-Vivace

```
Start at: 2018-06-07 20:10:05
End at: 2018-06-07 20:10:35
Local clock offset: 0.055 ms
Remote clock offset: -0.223 ms

# Below is generated by plot.py at 2018-06-07 22:41:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 599.16 Mbit/s
95th percentile per-packet one-way delay: 56.592 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 385.62 Mbit/s
95th percentile per-packet one-way delay: 52.605 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 298.67 Mbit/s
95th percentile per-packet one-way delay: 59.413 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 46.65 Mbit/s
95th percentile per-packet one-way delay: 53.937 ms
Loss rate: 1.32%
```

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

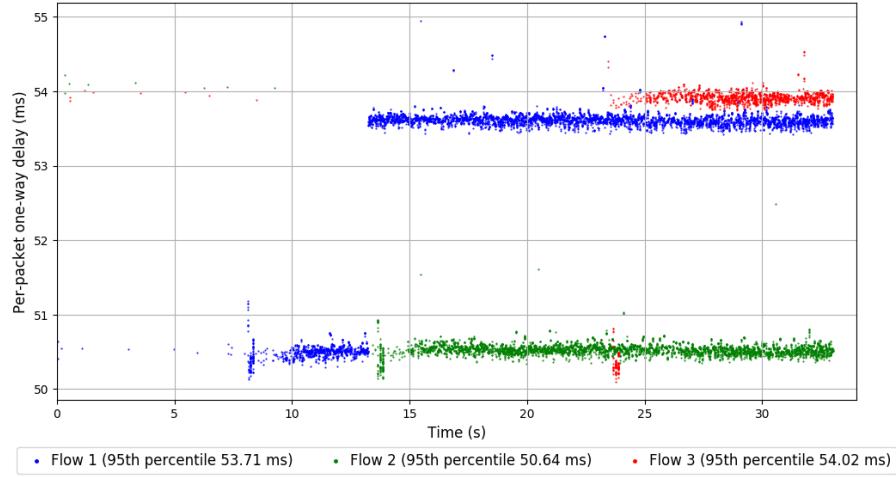
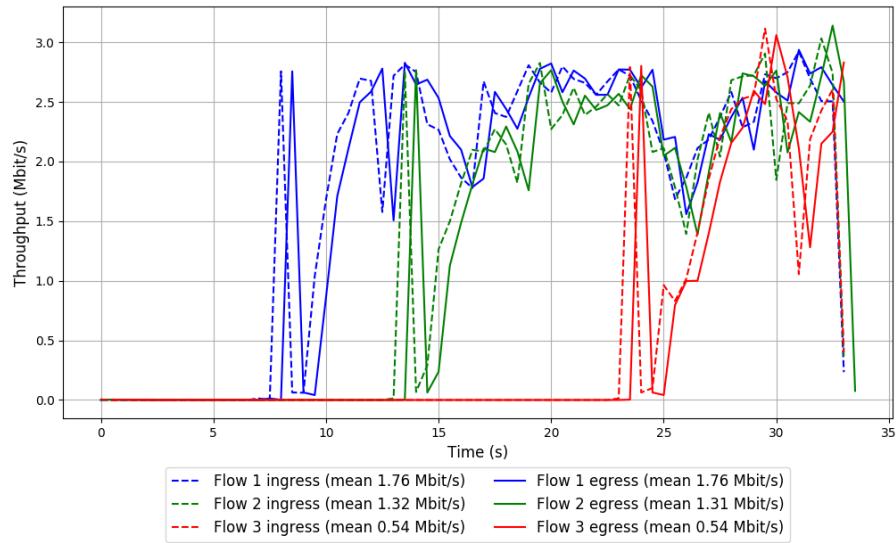


```
Run 1: Statistics of WebRTC media

Start at: 2018-06-07 16:30:12
End at: 2018-06-07 16:30:42
Local clock offset: -0.128 ms
Remote clock offset: -1.015 ms

# Below is generated by plot.py at 2018-06-07 22:41:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.59 Mbit/s
95th percentile per-packet one-way delay: 53.941 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 1.76 Mbit/s
95th percentile per-packet one-way delay: 53.707 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 1.31 Mbit/s
95th percentile per-packet one-way delay: 50.641 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 54.015 ms
Loss rate: 1.64%
```

### Run 1: Report of WebRTC media — Data Link

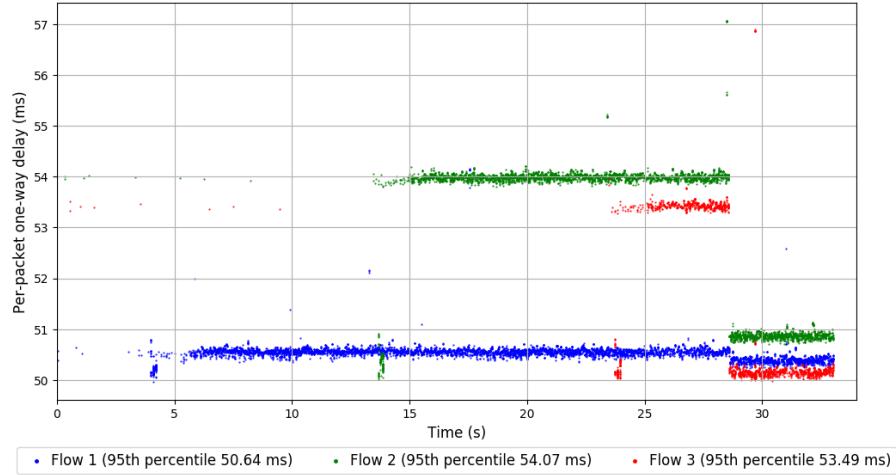
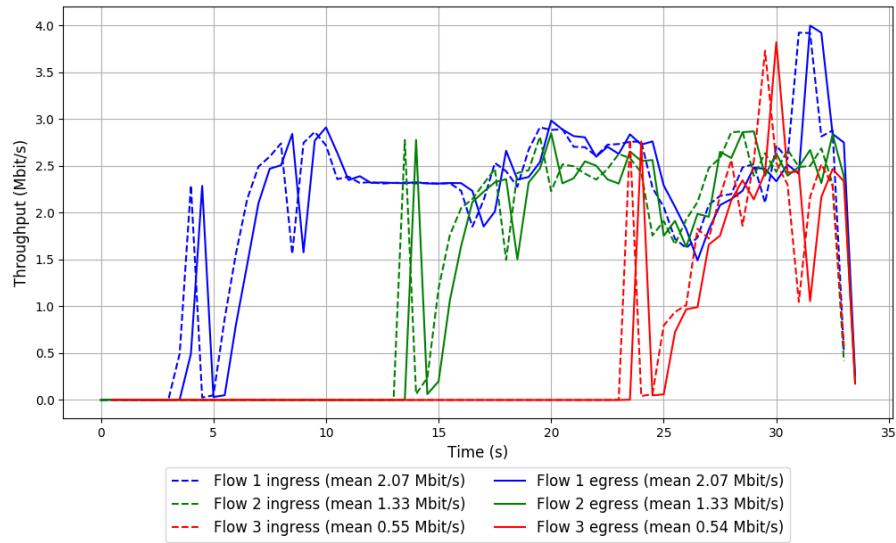


```
Run 2: Statistics of WebRTC media

Start at: 2018-06-07 16:52:57
End at: 2018-06-07 16:53:27
Local clock offset: 0.024 ms
Remote clock offset: -0.661 ms

# Below is generated by plot.py at 2018-06-07 22:41:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.91 Mbit/s
95th percentile per-packet one-way delay: 54.036 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 2.07 Mbit/s
95th percentile per-packet one-way delay: 50.640 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 1.33 Mbit/s
95th percentile per-packet one-way delay: 54.074 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 53.493 ms
Loss rate: 1.61%
```

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

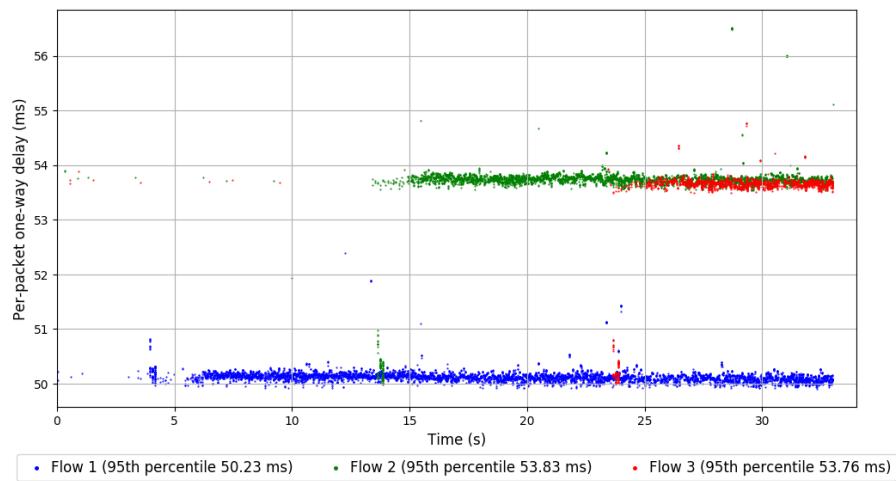
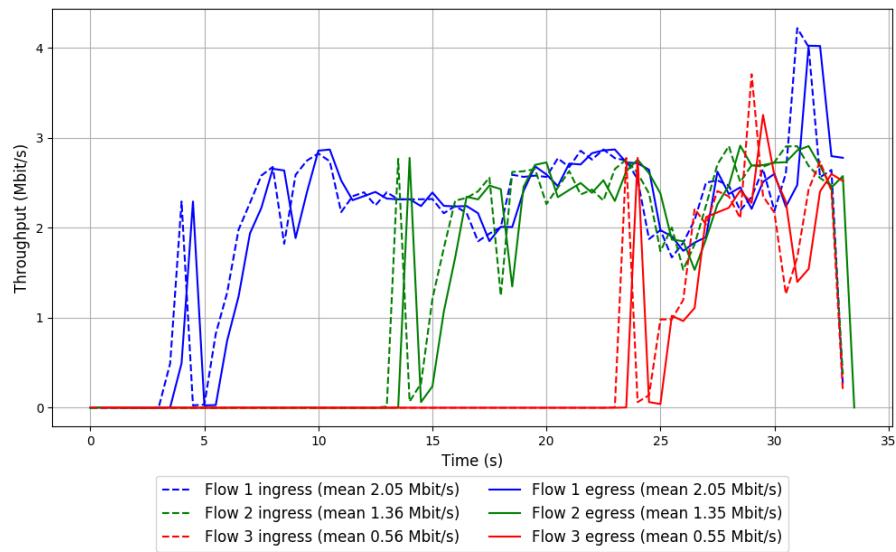


Run 3: Statistics of WebRTC media

```
Start at: 2018-06-07 17:15:21
End at: 2018-06-07 17:15:51
Local clock offset: -0.172 ms
Remote clock offset: -0.031 ms

# Below is generated by plot.py at 2018-06-07 22:41:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.93 Mbit/s
95th percentile per-packet one-way delay: 53.802 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 2.05 Mbit/s
95th percentile per-packet one-way delay: 50.232 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 1.35 Mbit/s
95th percentile per-packet one-way delay: 53.833 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 53.755 ms
Loss rate: 1.13%
```

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

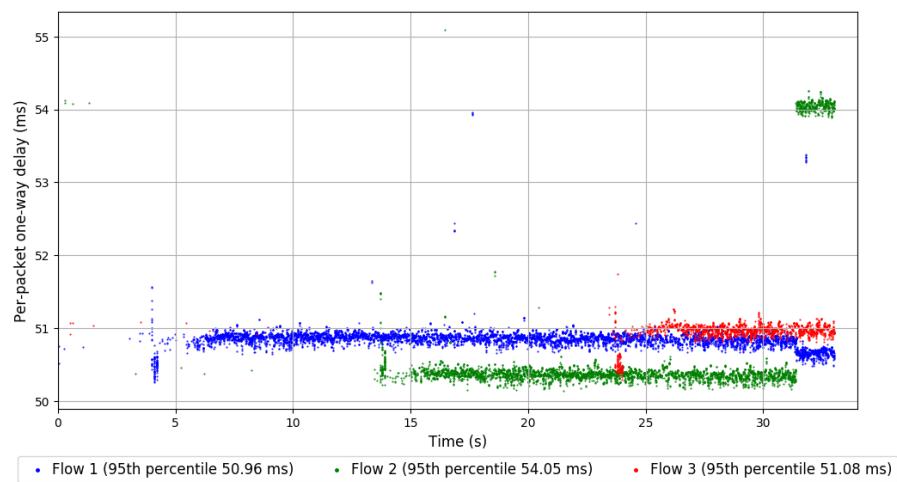
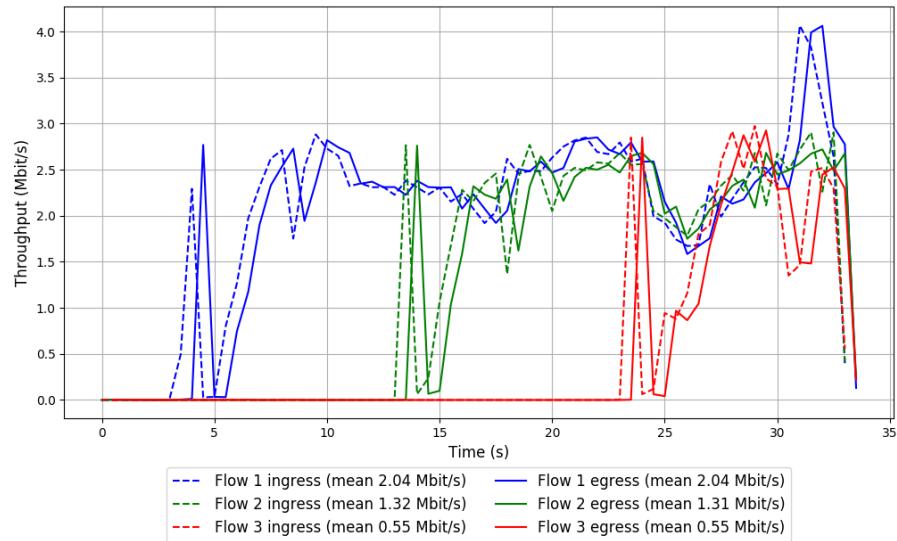


Run 4: Statistics of WebRTC media

```
Start at: 2018-06-07 17:38:27
End at: 2018-06-07 17:38:57
Local clock offset: -0.01 ms
Remote clock offset: -0.049 ms

# Below is generated by plot.py at 2018-06-07 22:41:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.88 Mbit/s
95th percentile per-packet one-way delay: 51.059 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 2.04 Mbit/s
95th percentile per-packet one-way delay: 50.957 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 1.31 Mbit/s
95th percentile per-packet one-way delay: 54.050 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 51.078 ms
Loss rate: 1.55%
```

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

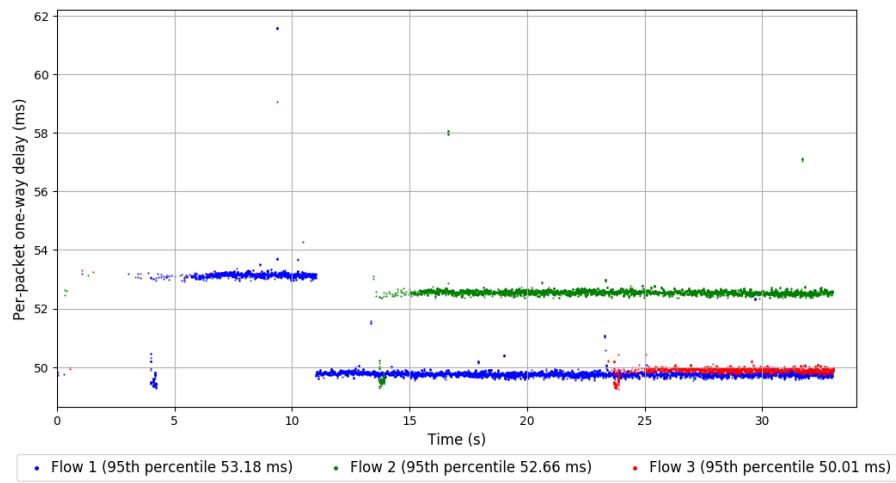
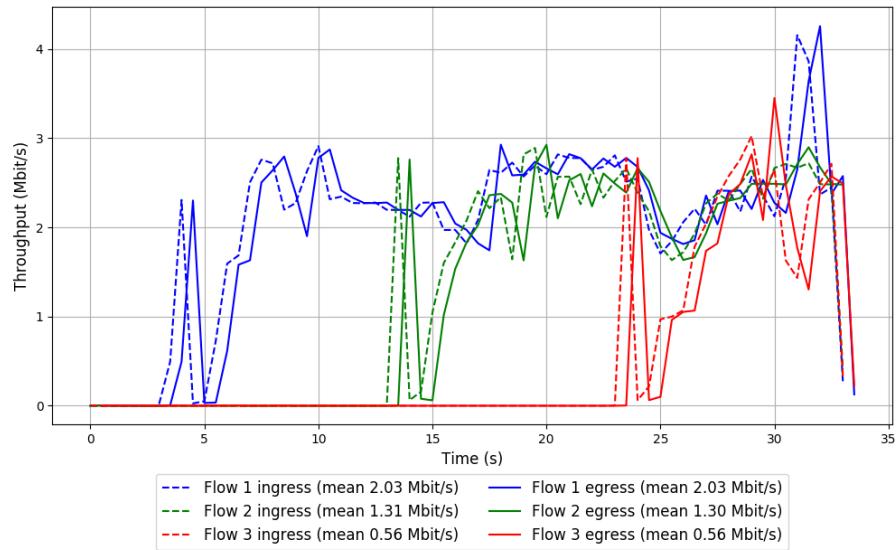


Run 5: Statistics of WebRTC media

```
Start at: 2018-06-07 18:01:27
End at: 2018-06-07 18:01:57
Local clock offset: -0.231 ms
Remote clock offset: 0.817 ms

# Below is generated by plot.py at 2018-06-07 22:41:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.87 Mbit/s
95th percentile per-packet one-way delay: 53.153 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 2.03 Mbit/s
95th percentile per-packet one-way delay: 53.181 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 1.30 Mbit/s
95th percentile per-packet one-way delay: 52.663 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 50.007 ms
Loss rate: 1.38%
```

Run 5: Report of WebRTC media — Data Link

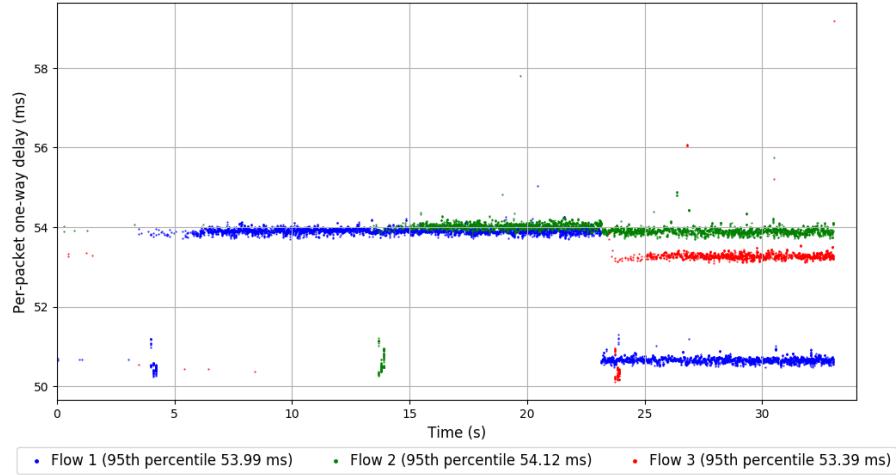
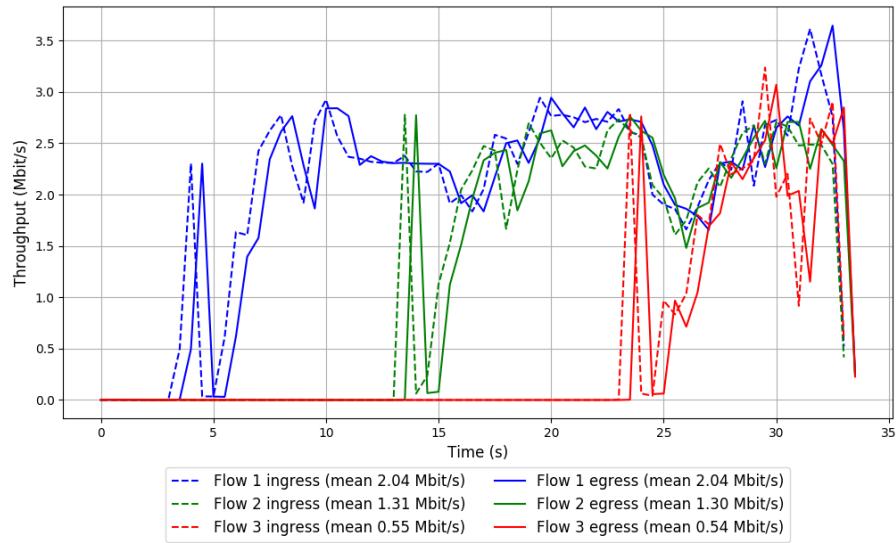


Run 6: Statistics of WebRTC media

```
Start at: 2018-06-07 18:24:05
End at: 2018-06-07 18:24:35
Local clock offset: -0.132 ms
Remote clock offset: 0.424 ms

# Below is generated by plot.py at 2018-06-07 22:41:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.86 Mbit/s
95th percentile per-packet one-way delay: 54.070 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 2.04 Mbit/s
95th percentile per-packet one-way delay: 53.988 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 1.30 Mbit/s
95th percentile per-packet one-way delay: 54.120 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 53.386 ms
Loss rate: 1.84%
```

Run 6: Report of WebRTC media — Data Link

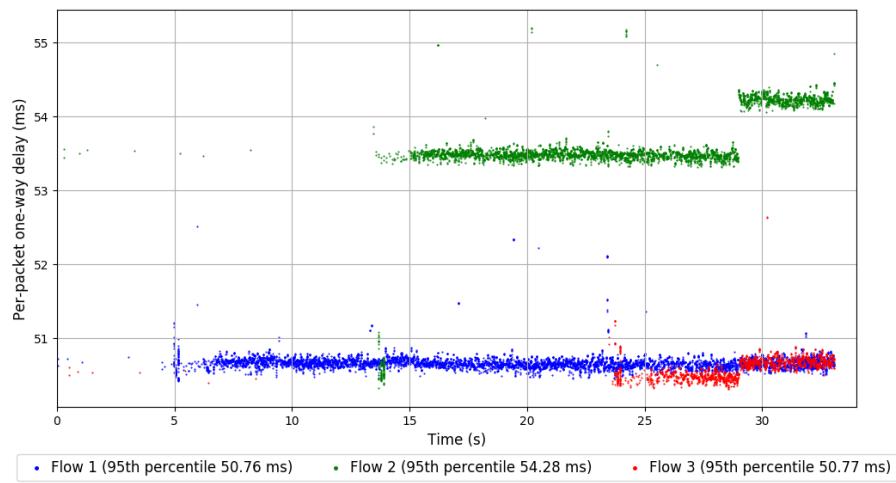
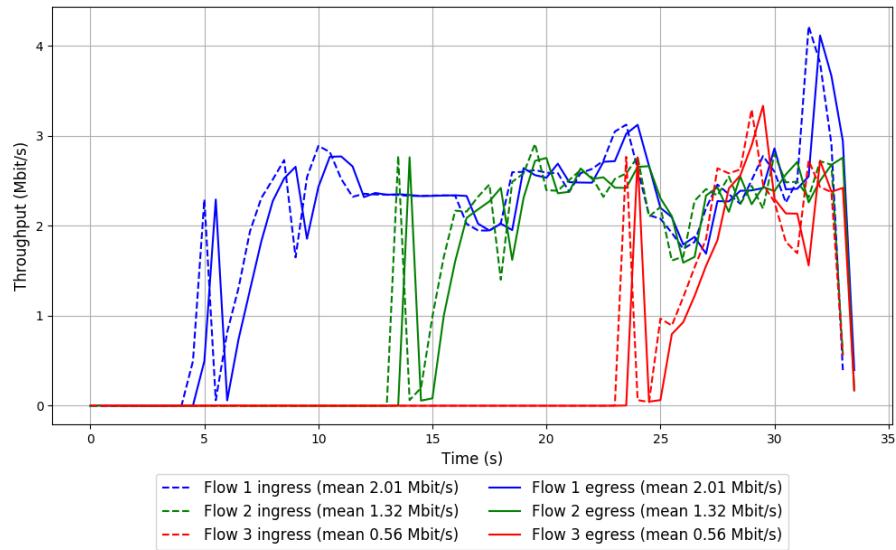


Run 7: Statistics of WebRTC media

```
Start at: 2018-06-07 18:46:59
End at: 2018-06-07 18:47:29
Local clock offset: 0.26 ms
Remote clock offset: -0.069 ms

# Below is generated by plot.py at 2018-06-07 22:41:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.87 Mbit/s
95th percentile per-packet one-way delay: 54.211 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 2.01 Mbit/s
95th percentile per-packet one-way delay: 50.760 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 1.32 Mbit/s
95th percentile per-packet one-way delay: 54.281 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 50.775 ms
Loss rate: 1.52%
```

Run 7: Report of WebRTC media — Data Link

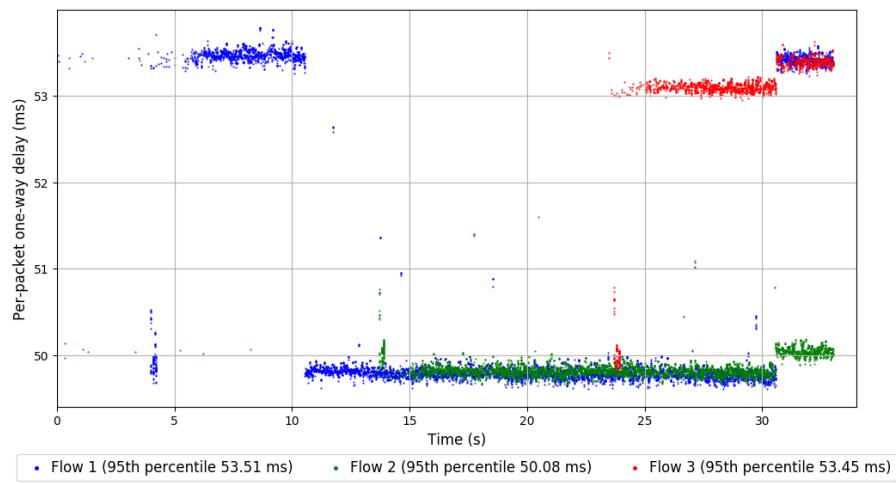
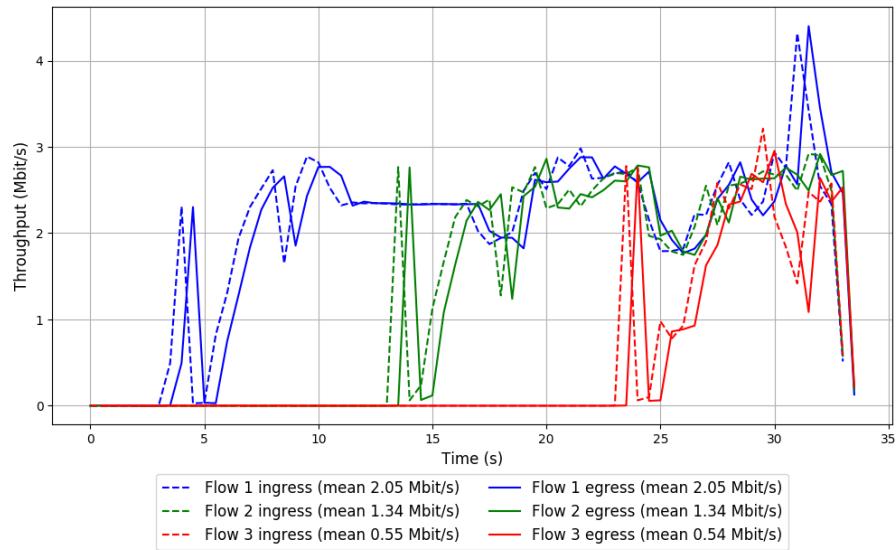


Run 8: Statistics of WebRTC media

```
Start at: 2018-06-07 19:10:28
End at: 2018-06-07 19:10:58
Local clock offset: -0.309 ms
Remote clock offset: -0.273 ms

# Below is generated by plot.py at 2018-06-07 22:41:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.91 Mbit/s
95th percentile per-packet one-way delay: 53.479 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 2.05 Mbit/s
95th percentile per-packet one-way delay: 53.508 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 1.34 Mbit/s
95th percentile per-packet one-way delay: 50.076 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 53.446 ms
Loss rate: 1.64%
```

Run 8: Report of WebRTC media — Data Link

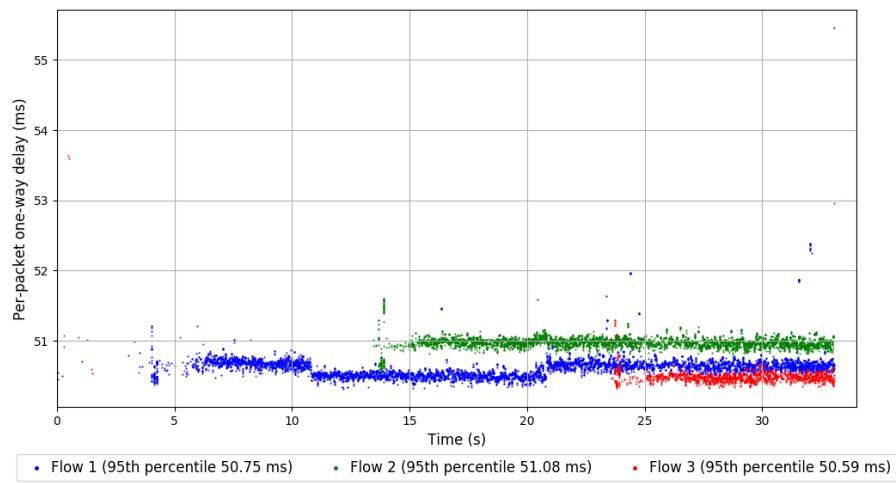
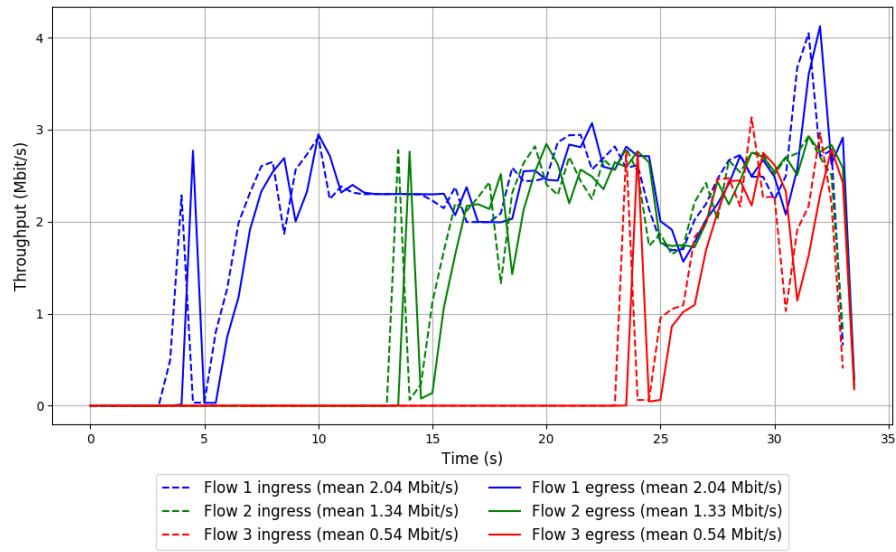


Run 9: Statistics of WebRTC media

```
Start at: 2018-06-07 19:33:08
End at: 2018-06-07 19:33:38
Local clock offset: 0.039 ms
Remote clock offset: -0.741 ms

# Below is generated by plot.py at 2018-06-07 22:41:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.88 Mbit/s
95th percentile per-packet one-way delay: 51.039 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 2.04 Mbit/s
95th percentile per-packet one-way delay: 50.752 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 1.33 Mbit/s
95th percentile per-packet one-way delay: 51.076 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 50.591 ms
Loss rate: 1.15%
```

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

```
Start at: 2018-06-07 19:55:32
End at: 2018-06-07 19:56:02
Local clock offset: -0.094 ms
Remote clock offset: -0.16 ms

# Below is generated by plot.py at 2018-06-07 22:41:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.90 Mbit/s
95th percentile per-packet one-way delay: 53.772 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 2.07 Mbit/s
95th percentile per-packet one-way delay: 53.773 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 1.31 Mbit/s
95th percentile per-packet one-way delay: 53.777 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 53.715 ms
Loss rate: 1.61%
```

Run 10: Report of WebRTC media — Data Link

