

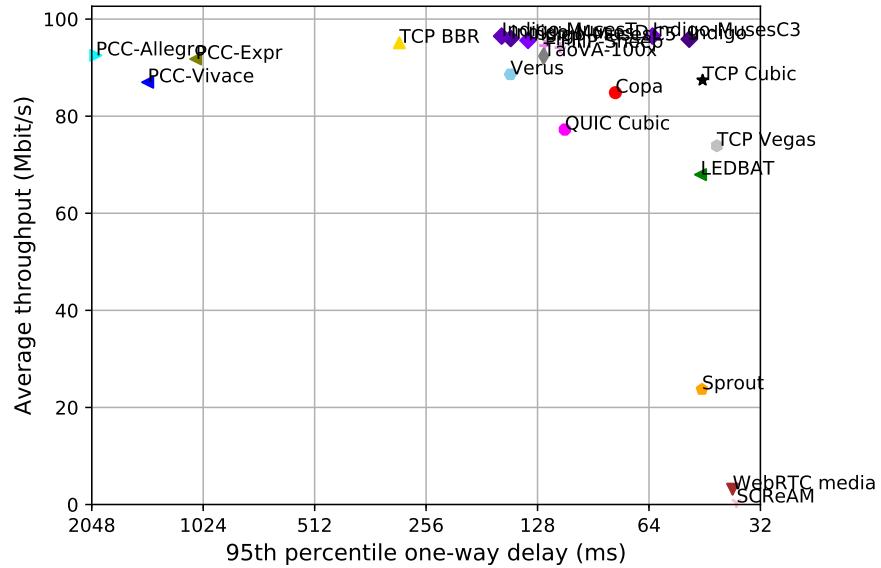
## Pantheon Report

Generated at 2019-02-05 20:38:11 (UTC).  
Data path: Mexico on `em1` (*remote*) → AWS California 2 on `ens5` (*local*).  
Repeated the test of 21 congestion control schemes 5 times.  
Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.  
NTP offsets were measured against `time.stanford.edu` and have been applied to correct the timestamps in logs.

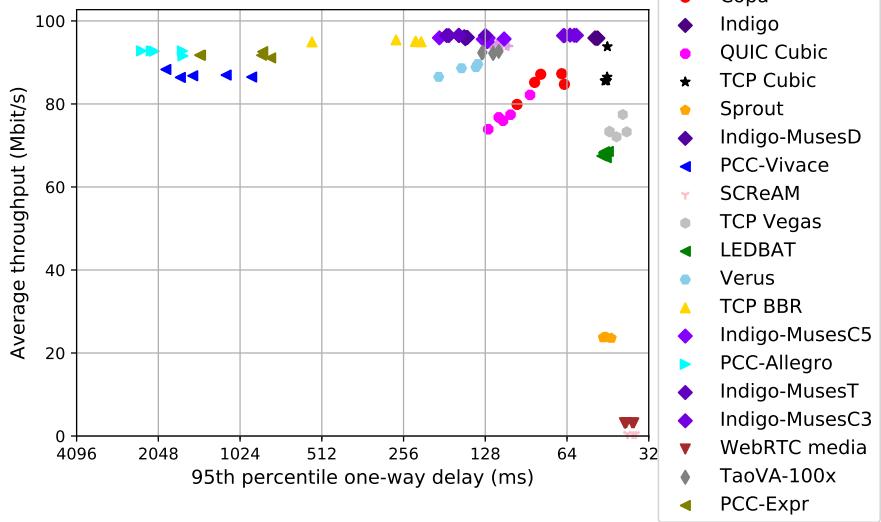
```
System info:  
Linux 4.15.0-1031-aws  
net.core.default_qdisc = fq  
net.core.rmem_default = 16777216  
net.core.rmem_max = 536870912  
net.core.wmem_default = 16777216  
net.core.wmem_max = 536870912  
net.ipv4.tcp_rmem = 4096 16777216 536870912  
net.ipv4.tcp_wmem = 4096 16777216 536870912  
  
Git summary:  
branch: muses @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee  
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519  
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9  
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4  
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d  
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf  
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966  
third_party/pantheon-tunnel @ f866d3f58d27af942717625ee3a354cc2e802bd  
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 @ 366e35c6178b01e31d4a46ad18c74f9415f19a26  
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 Mexico to AWS California 2, 5 runs of 30s each per scheme  
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from Mexico to AWS California 2, 5 runs of 30s each per scheme  
 3 flows with 10s interval between flows



4

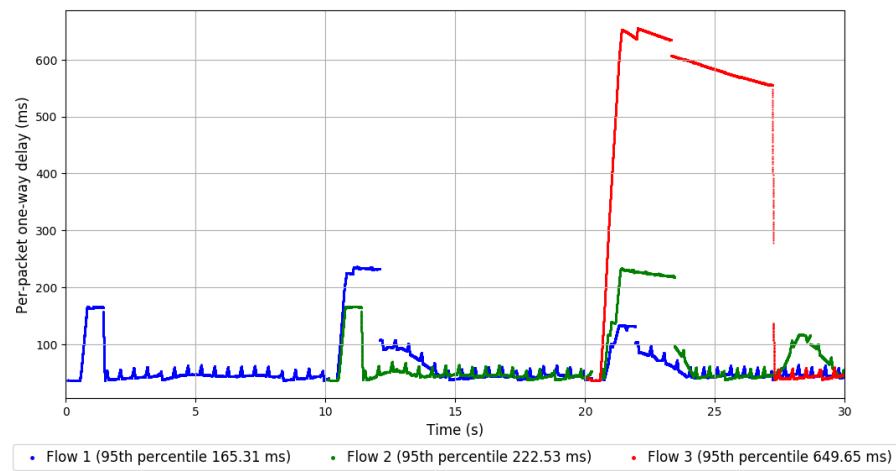
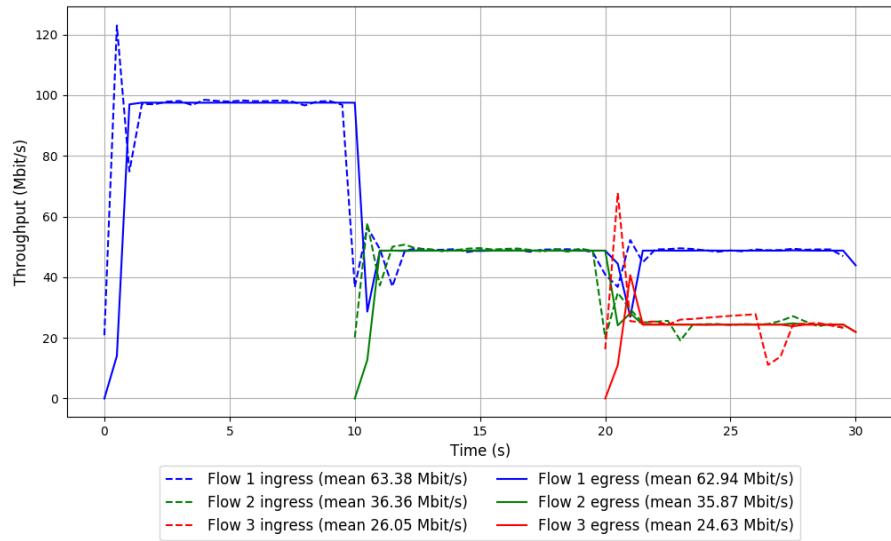
| scheme         | # runs | mean avg tput (Mbit/s) |        |        | mean 95th-%ile delay (ms) |         |        | mean loss rate (%) |        |        |
|----------------|--------|------------------------|--------|--------|---------------------------|---------|--------|--------------------|--------|--------|
|                |        | flow 1                 | flow 2 | flow 3 | flow 1                    | flow 2  | flow 3 | flow 1             | flow 2 | flow 3 |
| TCP BBR        | 5      | 57.99                  | 39.74  | 32.25  | 202.18                    | 194.70  | 457.66 | 1.09               | 1.73   | 3.46   |
| Copa           | 5      | 49.20                  | 37.53  | 32.19  | 101.02                    | 49.88   | 59.83  | 0.17               | 0.28   | 0.69   |
| TCP Cubic      | 5      | 49.43                  | 40.87  | 32.59  | 50.08                     | 44.61   | 47.16  | 0.16               | 0.36   | 0.77   |
| FillP          | 5      | 55.48                  | 40.93  | 35.70  | 110.73                    | 135.01  | 105.40 | 0.36               | 3.42   | 1.28   |
| FillP-Sheep    | 5      | 57.35                  | 41.68  | 27.30  | 101.09                    | 105.57  | 140.50 | 0.30               | 0.55   | 1.57   |
| Indigo         | 5      | 59.12                  | 39.82  | 31.42  | 50.74                     | 50.65   | 49.99  | 0.19               | 0.33   | 0.75   |
| Indigo-MusesC3 | 5      | 61.15                  | 41.67  | 28.39  | 57.73                     | 67.59   | 88.32  | 0.22               | 0.49   | 1.19   |
| Indigo-MusesC5 | 5      | 58.64                  | 41.00  | 34.77  | 115.45                    | 154.50  | 118.00 | 1.17               | 4.31   | 5.16   |
| Indigo-MusesD  | 5      | 60.99                  | 38.97  | 32.63  | 151.94                    | 122.54  | 73.42  | 5.73               | 7.47   | 5.13   |
| Indigo-MusesT  | 5      | 60.30                  | 40.07  | 34.48  | 129.10                    | 201.99  | 180.16 | 2.42               | 6.61   | 7.22   |
| LEDBAT         | 5      | 41.48                  | 29.16  | 21.39  | 46.05                     | 46.76   | 48.02  | 0.18               | 0.36   | 0.96   |
| PCC-Allegro    | 5      | 58.00                  | 37.76  | 28.72  | 2026.27                   | 1708.44 | 471.56 | 14.08              | 12.71  | 4.52   |
| PCC-Expr       | 5      | 57.00                  | 38.88  | 27.19  | 887.00                    | 992.38  | 94.81  | 33.66              | 6.44   | 1.16   |
| QUIC Cubic     | 5      | 42.73                  | 36.84  | 30.45  | 96.64                     | 118.31  | 151.15 | 0.21               | 0.43   | 1.02   |
| SCReAM         | 5      | 0.21                   | 0.21   | 0.22   | 37.13                     | 37.11   | 37.09  | 0.18               | 0.40   | 0.71   |
| Sprout         | 5      | 12.03                  | 11.85  | 11.68  | 45.61                     | 46.32   | 46.84  | 0.19               | 0.28   | 0.81   |
| TaoVA-100x     | 5      | 54.40                  | 41.42  | 31.38  | 118.85                    | 125.14  | 149.08 | 0.65               | 1.19   | 2.79   |
| TCP Vegas      | 5      | 37.86                  | 37.73  | 33.00  | 50.67                     | 39.11   | 43.36  | 0.21               | 0.31   | 0.72   |
| Verus          | 5      | 53.40                  | 39.00  | 28.16  | 143.43                    | 120.41  | 224.66 | 0.29               | 0.54   | 1.81   |
| PCC-Vivace     | 5      | 54.93                  | 35.55  | 25.60  | 1463.78                   | 821.07  | 133.65 | 4.90               | 4.57   | 1.29   |
| WebRTC media   | 5      | 1.74                   | 0.99   | 0.43   | 37.98                     | 38.04   | 38.22  | 0.12               | 0.15   | 0.83   |

Run 1: Statistics of TCP BBR

```
Start at: 2019-02-05 18:32:04
End at: 2019-02-05 18:32:34
Local clock offset: 0.089 ms
Remote clock offset: -5.997 ms

# Below is generated by plot.py at 2019-02-05 20:24:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.97 Mbit/s
95th percentile per-packet one-way delay: 556.399 ms
Loss rate: 1.56%
-- Flow 1:
Average throughput: 62.94 Mbit/s
95th percentile per-packet one-way delay: 165.311 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 35.87 Mbit/s
95th percentile per-packet one-way delay: 222.528 ms
Loss rate: 1.67%
-- Flow 3:
Average throughput: 24.63 Mbit/s
95th percentile per-packet one-way delay: 649.651 ms
Loss rate: 6.07%
```

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

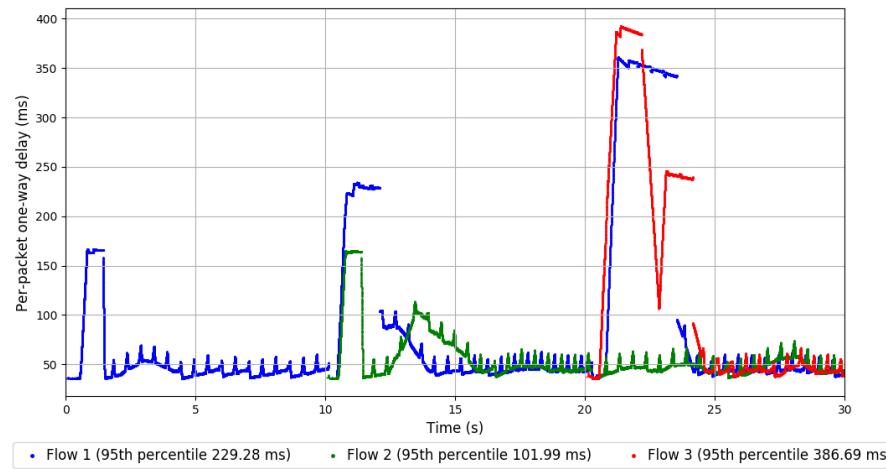
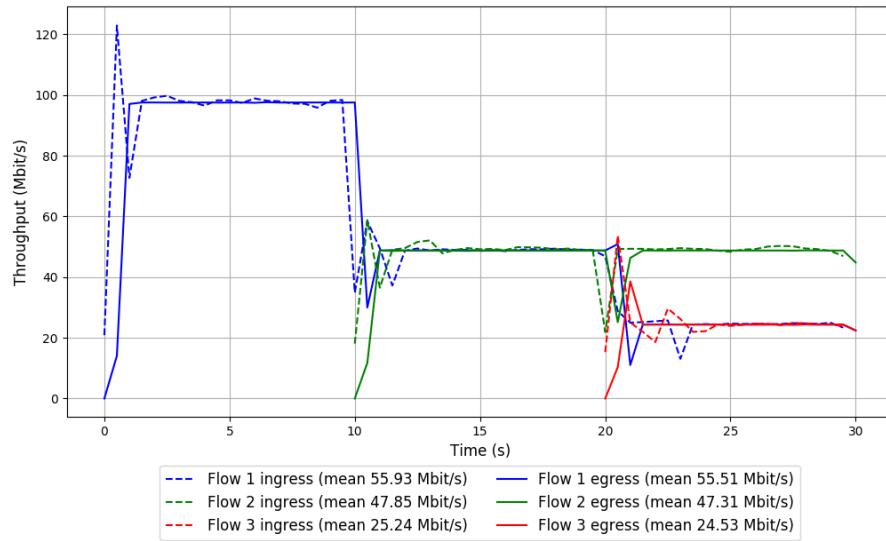


Run 2: Statistics of TCP BBR

```
Start at: 2019-02-05 18:57:49
End at: 2019-02-05 18:58:19
Local clock offset: -0.328 ms
Remote clock offset: -4.6 ms

# Below is generated by plot.py at 2019-02-05 20:24:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.10 Mbit/s
95th percentile per-packet one-way delay: 230.684 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 55.51 Mbit/s
95th percentile per-packet one-way delay: 229.281 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 47.31 Mbit/s
95th percentile per-packet one-way delay: 101.992 ms
Loss rate: 1.46%
-- Flow 3:
Average throughput: 24.53 Mbit/s
95th percentile per-packet one-way delay: 386.695 ms
Loss rate: 3.46%
```

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

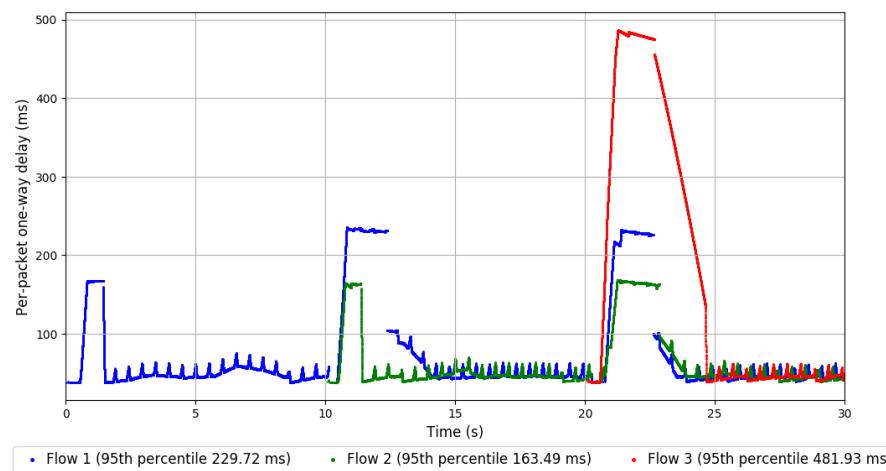
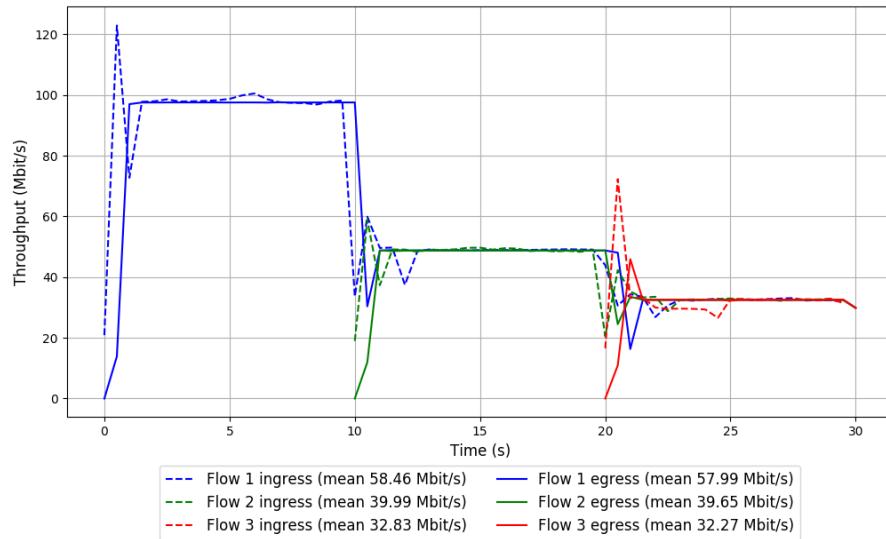


Run 3: Statistics of TCP BBR

```
Start at: 2019-02-05 19:23:40
End at: 2019-02-05 19:24:10
Local clock offset: -0.166 ms
Remote clock offset: -5.112 ms

# Below is generated by plot.py at 2019-02-05 20:24:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.06 Mbit/s
95th percentile per-packet one-way delay: 231.417 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 57.99 Mbit/s
95th percentile per-packet one-way delay: 229.717 ms
Loss rate: 1.01%
-- Flow 2:
Average throughput: 39.65 Mbit/s
95th percentile per-packet one-way delay: 163.493 ms
Loss rate: 1.20%
-- Flow 3:
Average throughput: 32.27 Mbit/s
95th percentile per-packet one-way delay: 481.931 ms
Loss rate: 2.36%
```

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

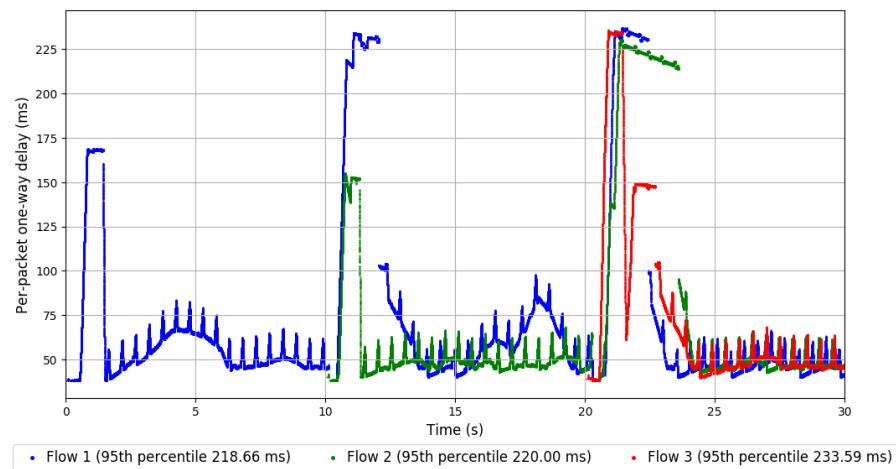
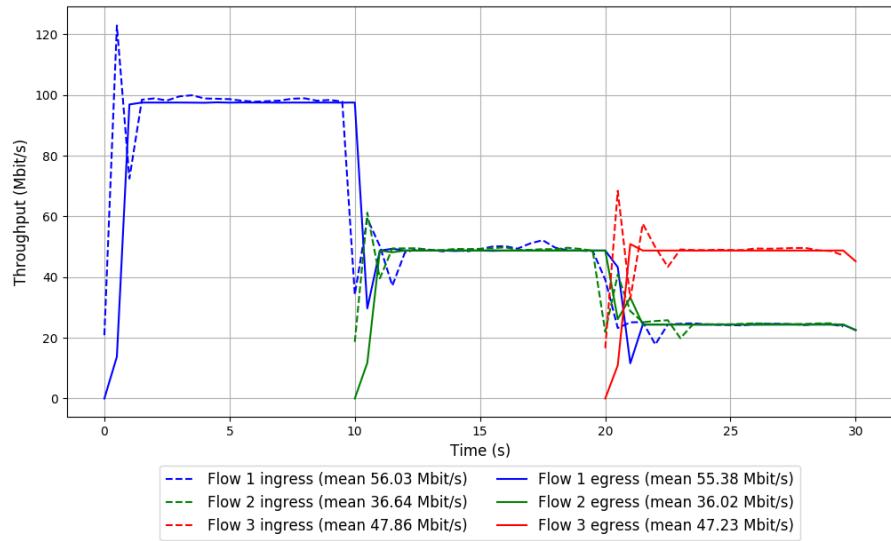


Run 4: Statistics of TCP BBR

```
Start at: 2019-02-05 19:49:59
End at: 2019-02-05 19:50:29
Local clock offset: -0.012 ms
Remote clock offset: -4.628 ms

# Below is generated by plot.py at 2019-02-05 20:24:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.99 Mbit/s
95th percentile per-packet one-way delay: 220.542 ms
Loss rate: 1.63%
-- Flow 1:
Average throughput: 55.38 Mbit/s
95th percentile per-packet one-way delay: 218.661 ms
Loss rate: 1.36%
-- Flow 2:
Average throughput: 36.02 Mbit/s
95th percentile per-packet one-way delay: 220.005 ms
Loss rate: 2.03%
-- Flow 3:
Average throughput: 47.23 Mbit/s
95th percentile per-packet one-way delay: 233.595 ms
Loss rate: 1.96%
```

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

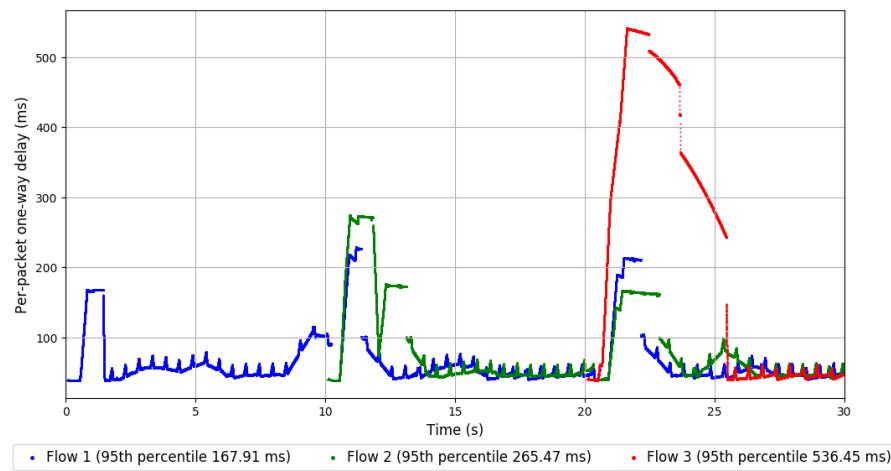
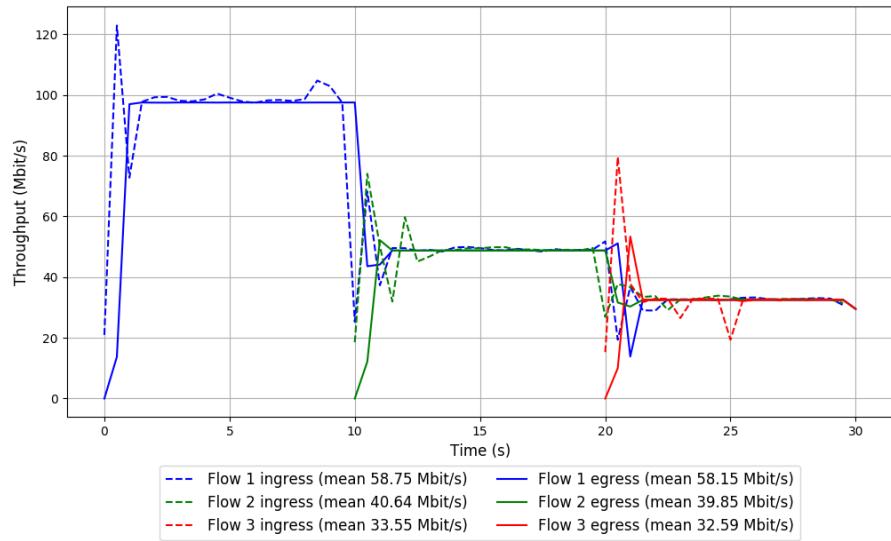


Run 5: Statistics of TCP BBR

```
Start at: 2019-02-05 20:16:01
End at: 2019-02-05 20:16:31
Local clock offset: 0.129 ms
Remote clock offset: -4.547 ms

# Below is generated by plot.py at 2019-02-05 20:24:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.45 Mbit/s
95th percentile per-packet one-way delay: 272.727 ms
Loss rate: 1.78%
-- Flow 1:
Average throughput: 58.15 Mbit/s
95th percentile per-packet one-way delay: 167.910 ms
Loss rate: 1.24%
-- Flow 2:
Average throughput: 39.85 Mbit/s
95th percentile per-packet one-way delay: 265.469 ms
Loss rate: 2.27%
-- Flow 3:
Average throughput: 32.59 Mbit/s
95th percentile per-packet one-way delay: 536.449 ms
Loss rate: 3.47%
```

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

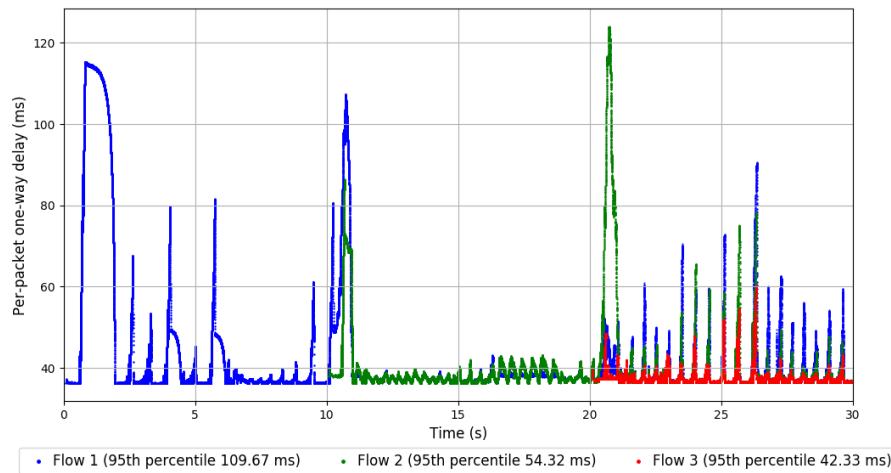
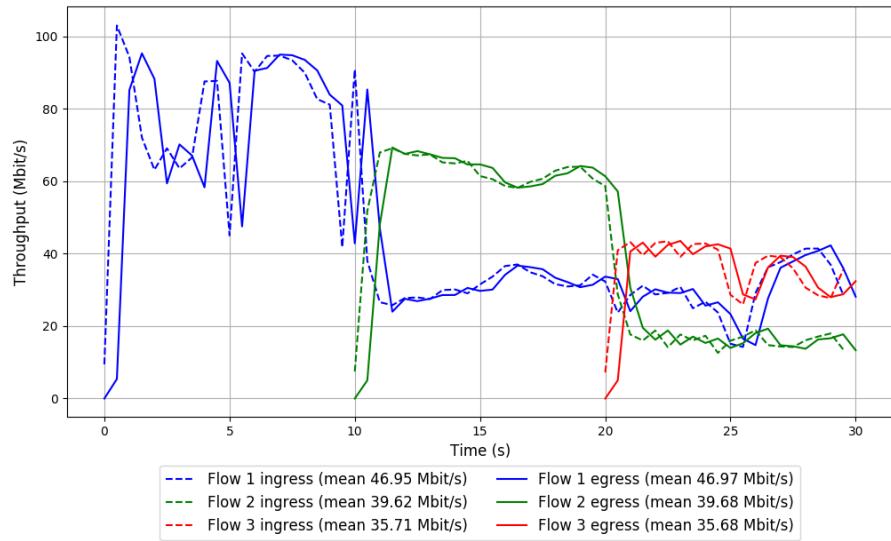


Run 1: Statistics of Copa

```
Start at: 2019-02-05 18:18:22
End at: 2019-02-05 18:18:52
Local clock offset: 2.612 ms
Remote clock offset: -6.63 ms

# Below is generated by plot.py at 2019-02-05 20:25:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.19 Mbit/s
95th percentile per-packet one-way delay: 84.206 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 46.97 Mbit/s
95th percentile per-packet one-way delay: 109.671 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 39.68 Mbit/s
95th percentile per-packet one-way delay: 54.319 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 35.68 Mbit/s
95th percentile per-packet one-way delay: 42.331 ms
Loss rate: 0.72%
```

## Run 1: Report of Copa — Data Link

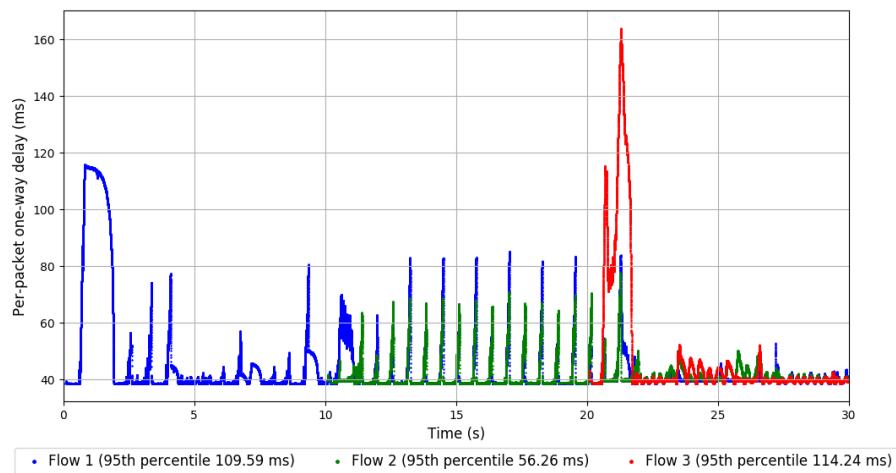
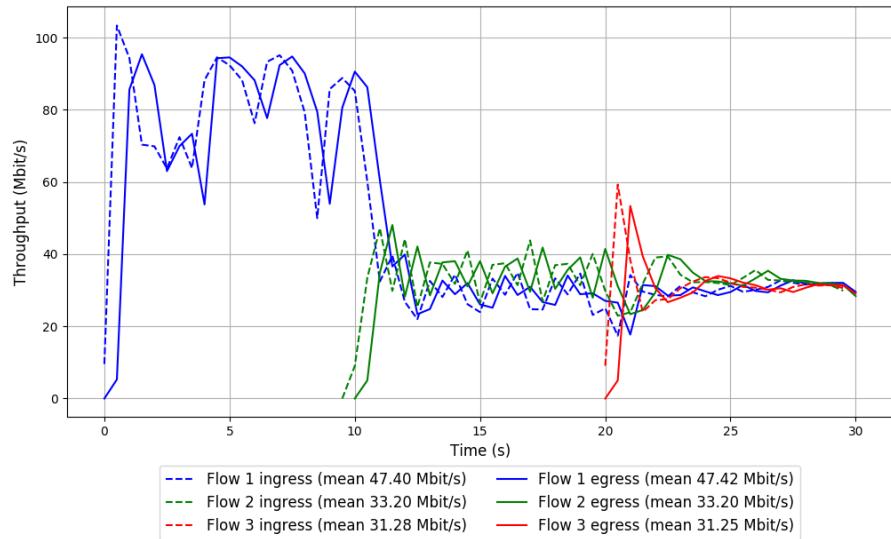


Run 2: Statistics of Copa

```
Start at: 2019-02-05 18:44:16
End at: 2019-02-05 18:44:46
Local clock offset: -0.738 ms
Remote clock offset: -7.788 ms

# Below is generated by plot.py at 2019-02-05 20:25:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.88 Mbit/s
95th percentile per-packet one-way delay: 97.784 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 47.42 Mbit/s
95th percentile per-packet one-way delay: 109.590 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 33.20 Mbit/s
95th percentile per-packet one-way delay: 56.256 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 31.25 Mbit/s
95th percentile per-packet one-way delay: 114.242 ms
Loss rate: 0.73%
```

## Run 2: Report of Copa — Data Link

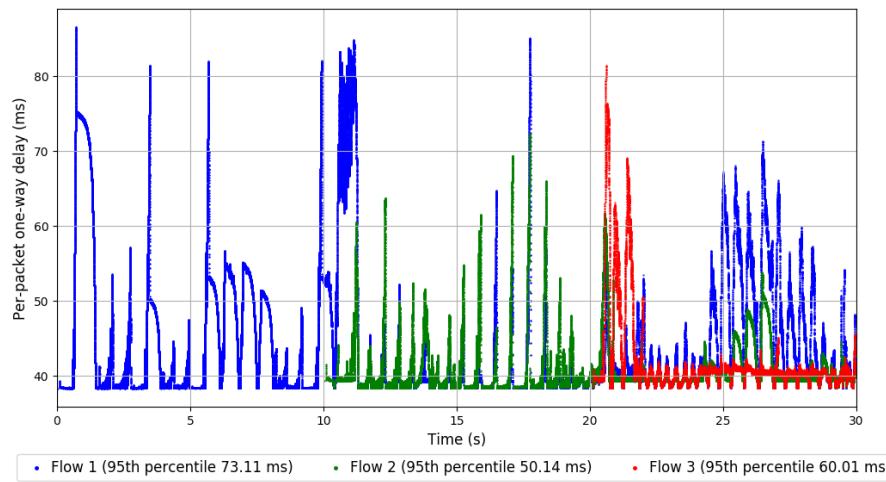
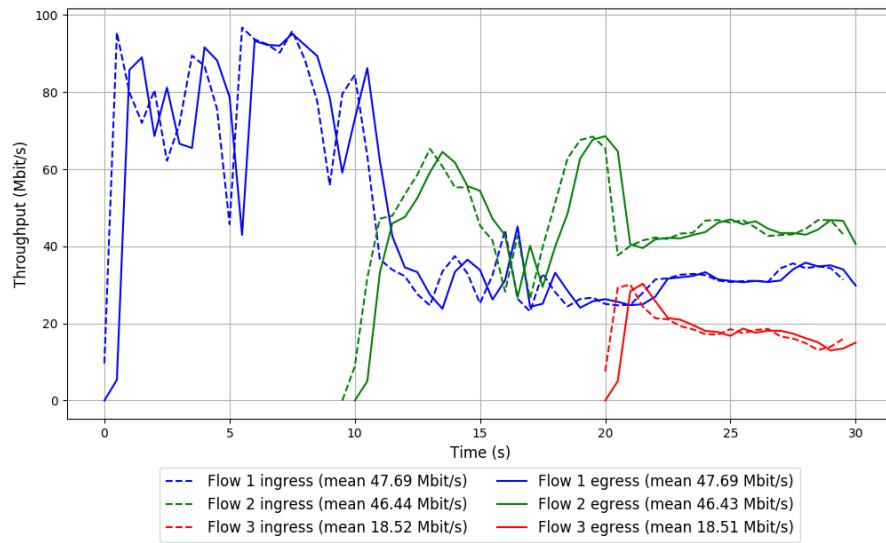


Run 3: Statistics of Copa

```
Start at: 2019-02-05 19:09:56
End at: 2019-02-05 19:10:26
Local clock offset: -0.388 ms
Remote clock offset: -6.223 ms

# Below is generated by plot.py at 2019-02-05 20:25:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.72 Mbit/s
95th percentile per-packet one-way delay: 65.442 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 47.69 Mbit/s
95th percentile per-packet one-way delay: 73.115 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 46.43 Mbit/s
95th percentile per-packet one-way delay: 50.136 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 18.51 Mbit/s
95th percentile per-packet one-way delay: 60.005 ms
Loss rate: 0.70%
```

### Run 3: Report of Copa — Data Link

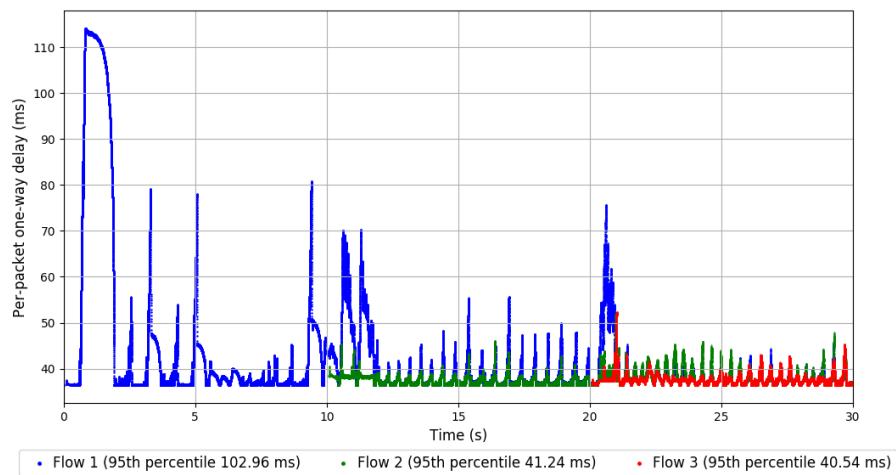
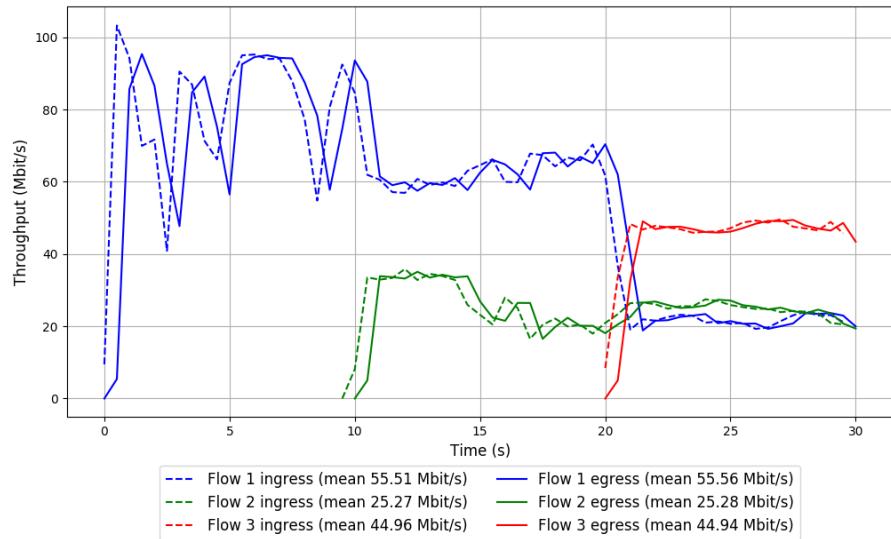


Run 4: Statistics of Copa

```
Start at: 2019-02-05 19:36:05
End at: 2019-02-05 19:36:35
Local clock offset: -0.108 ms
Remote clock offset: -3.32 ms

# Below is generated by plot.py at 2019-02-05 20:26:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.28 Mbit/s
95th percentile per-packet one-way delay: 66.914 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 55.56 Mbit/s
95th percentile per-packet one-way delay: 102.959 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 25.28 Mbit/s
95th percentile per-packet one-way delay: 41.241 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 44.94 Mbit/s
95th percentile per-packet one-way delay: 40.543 ms
Loss rate: 0.68%
```

## Run 4: Report of Copa — Data Link

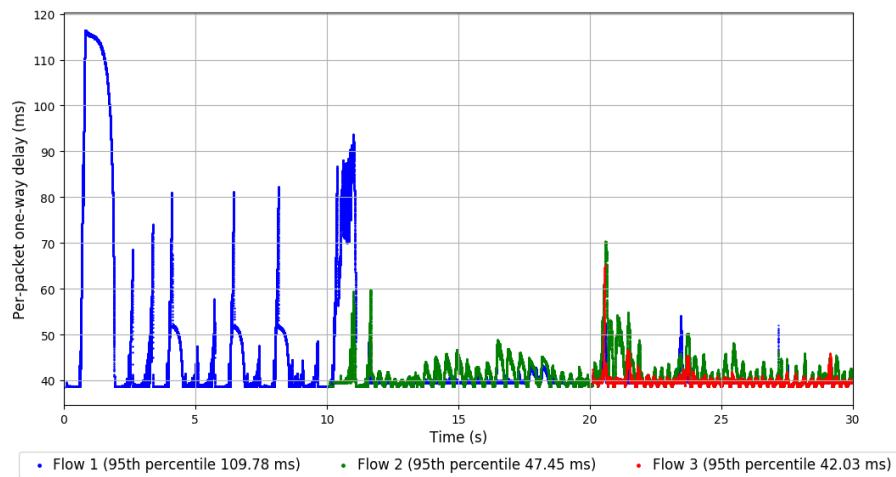
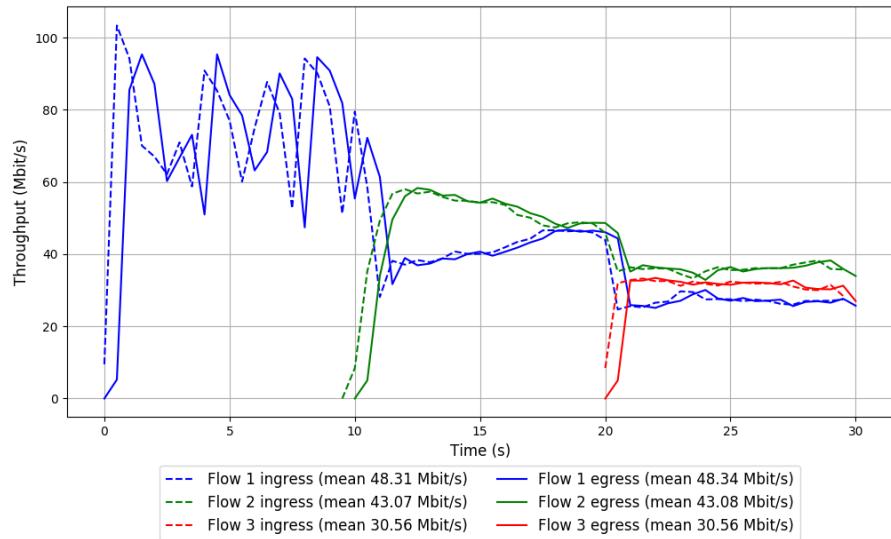


Run 5: Statistics of Copa

```
Start at: 2019-02-05 20:02:25
End at: 2019-02-05 20:02:55
Local clock offset: 0.166 ms
Remote clock offset: -4.777 ms

# Below is generated by plot.py at 2019-02-05 20:26:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.15 Mbit/s
95th percentile per-packet one-way delay: 79.991 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 48.34 Mbit/s
95th percentile per-packet one-way delay: 109.783 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 43.08 Mbit/s
95th percentile per-packet one-way delay: 47.449 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 30.56 Mbit/s
95th percentile per-packet one-way delay: 42.035 ms
Loss rate: 0.63%
```

## Run 5: Report of Copa — Data Link

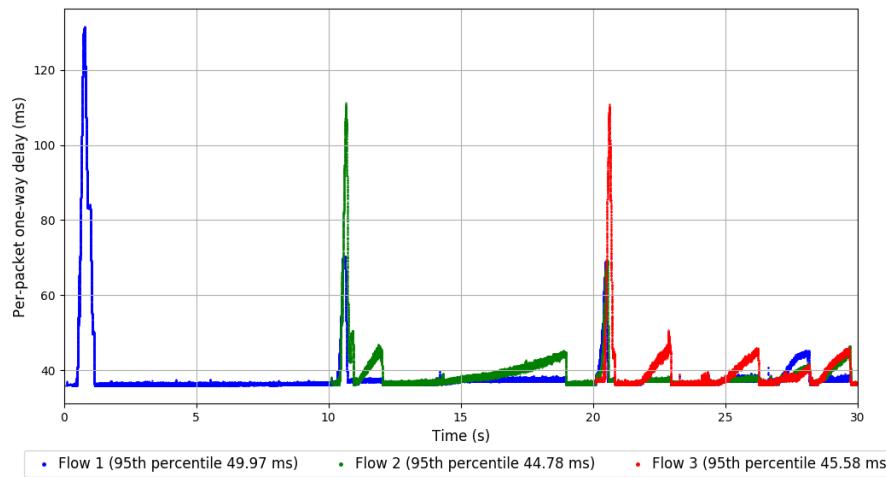
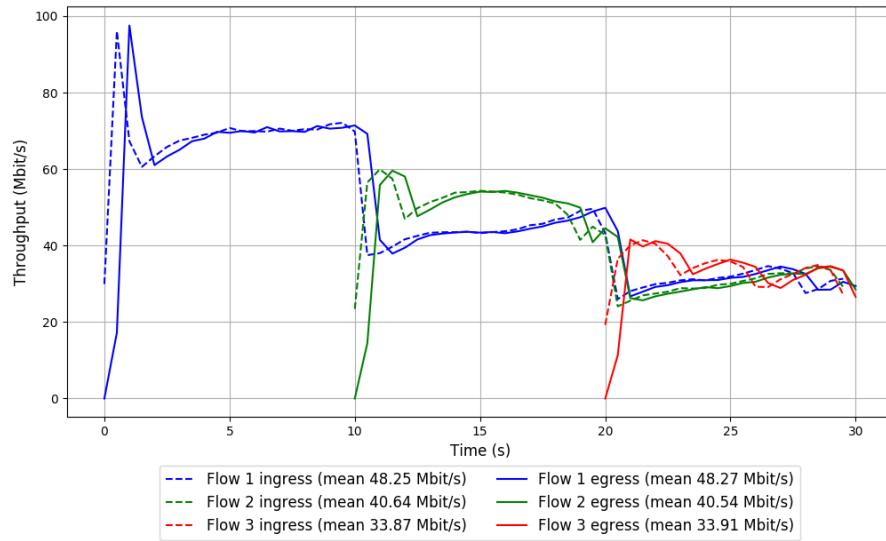


```
Run 1: Statistics of TCP Cubic

Start at: 2019-02-05 18:20:51
End at: 2019-02-05 18:21:21
Local clock offset: 1.842 ms
Remote clock offset: -6.47 ms

# Below is generated by plot.py at 2019-02-05 20:26:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.49 Mbit/s
95th percentile per-packet one-way delay: 45.538 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 48.27 Mbit/s
95th percentile per-packet one-way delay: 49.972 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 40.54 Mbit/s
95th percentile per-packet one-way delay: 44.778 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 33.91 Mbit/s
95th percentile per-packet one-way delay: 45.579 ms
Loss rate: 0.54%
```

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

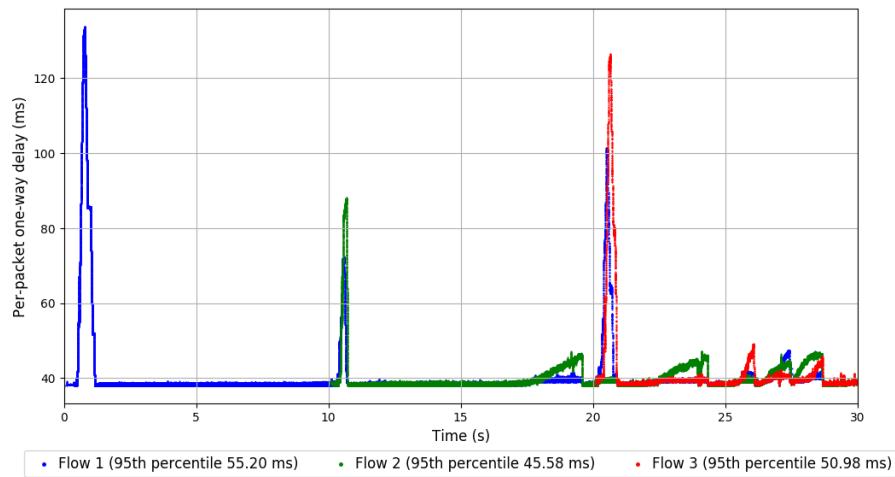
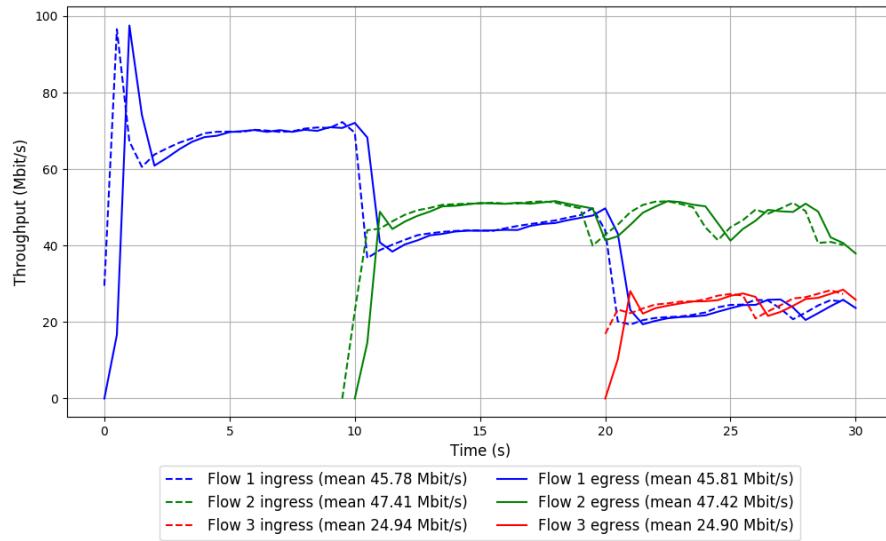


Run 2: Statistics of TCP Cubic

```
Start at: 2019-02-05 18:46:45
End at: 2019-02-05 18:47:15
Local clock offset: -0.723 ms
Remote clock offset: -7.179 ms

# Below is generated by plot.py at 2019-02-05 20:26:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.62 Mbit/s
95th percentile per-packet one-way delay: 46.164 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 45.81 Mbit/s
95th percentile per-packet one-way delay: 55.198 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 47.42 Mbit/s
95th percentile per-packet one-way delay: 45.584 ms
Loss rate: 0.30%
-- Flow 3:
Average throughput: 24.90 Mbit/s
95th percentile per-packet one-way delay: 50.975 ms
Loss rate: 0.79%
```

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

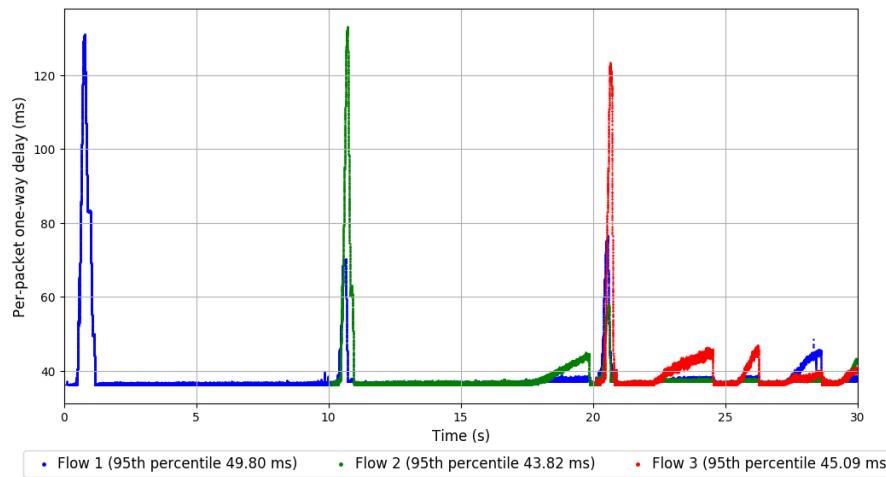
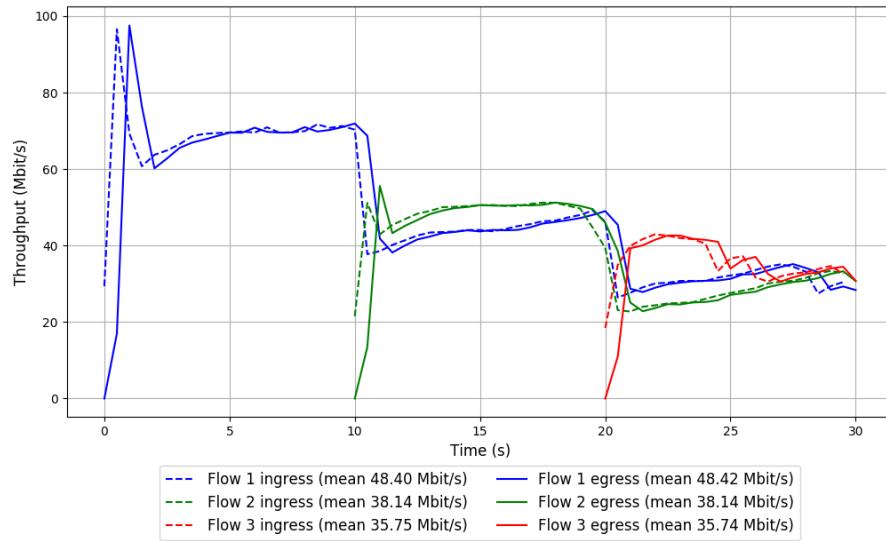


Run 3: Statistics of TCP Cubic

```
Start at: 2019-02-05 19:12:25
End at: 2019-02-05 19:12:55
Local clock offset: -0.432 ms
Remote clock offset: -3.843 ms

# Below is generated by plot.py at 2019-02-05 20:26:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.63 Mbit/s
95th percentile per-packet one-way delay: 45.727 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 48.42 Mbit/s
95th percentile per-packet one-way delay: 49.795 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 38.14 Mbit/s
95th percentile per-packet one-way delay: 43.819 ms
Loss rate: 0.32%
-- Flow 3:
Average throughput: 35.74 Mbit/s
95th percentile per-packet one-way delay: 45.089 ms
Loss rate: 0.65%
```

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

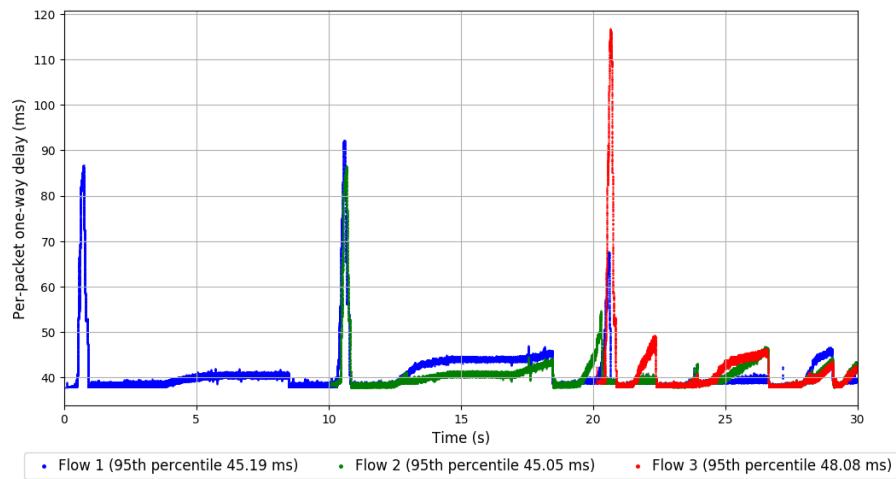
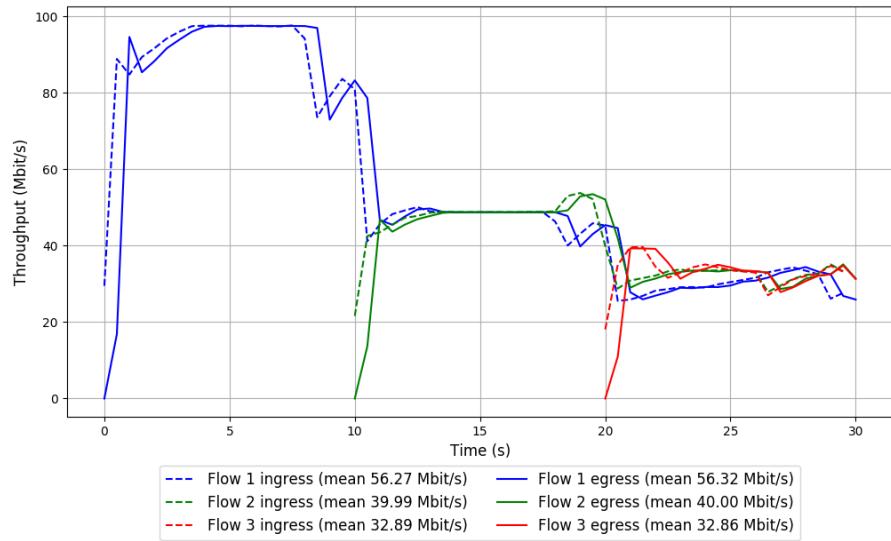


Run 4: Statistics of TCP Cubic

```
Start at: 2019-02-05 19:38:37
End at: 2019-02-05 19:39:07
Local clock offset: -0.093 ms
Remote clock offset: -4.578 ms

# Below is generated by plot.py at 2019-02-05 20:26:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.81 Mbit/s
95th percentile per-packet one-way delay: 45.458 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 56.32 Mbit/s
95th percentile per-packet one-way delay: 45.186 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 40.00 Mbit/s
95th percentile per-packet one-way delay: 45.054 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 32.86 Mbit/s
95th percentile per-packet one-way delay: 48.081 ms
Loss rate: 0.74%
```

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

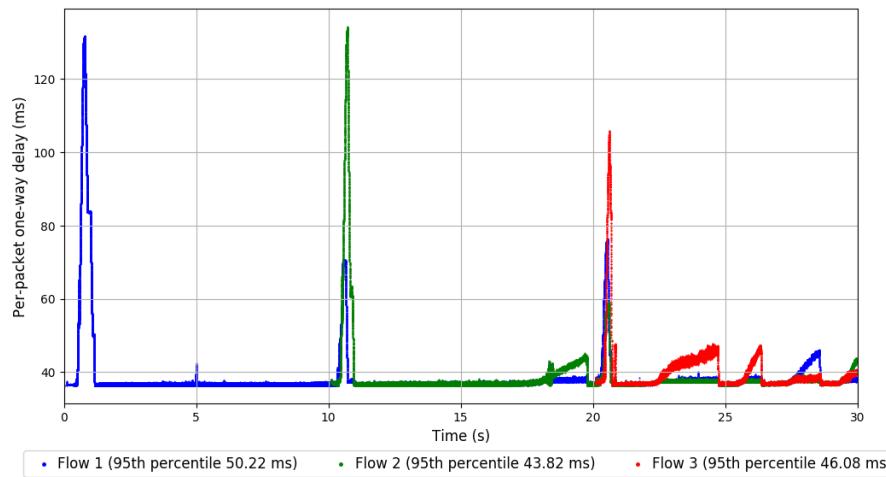
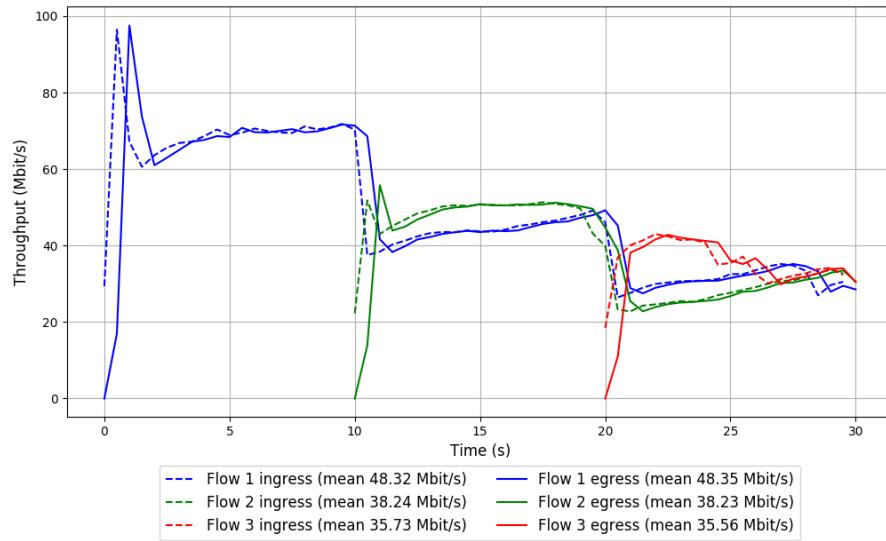


Run 5: Statistics of TCP Cubic

```
Start at: 2019-02-05 20:04:56
End at: 2019-02-05 20:05:26
Local clock offset: 0.161 ms
Remote clock offset: -2.532 ms

# Below is generated by plot.py at 2019-02-05 20:26:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.57 Mbit/s
95th percentile per-packet one-way delay: 46.383 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 48.35 Mbit/s
95th percentile per-packet one-way delay: 50.224 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 38.23 Mbit/s
95th percentile per-packet one-way delay: 43.818 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 35.56 Mbit/s
95th percentile per-packet one-way delay: 46.078 ms
Loss rate: 1.12%
```

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

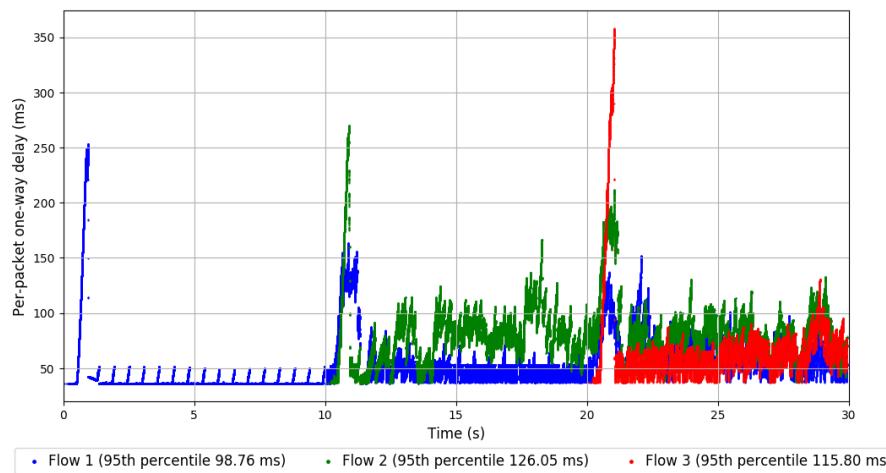
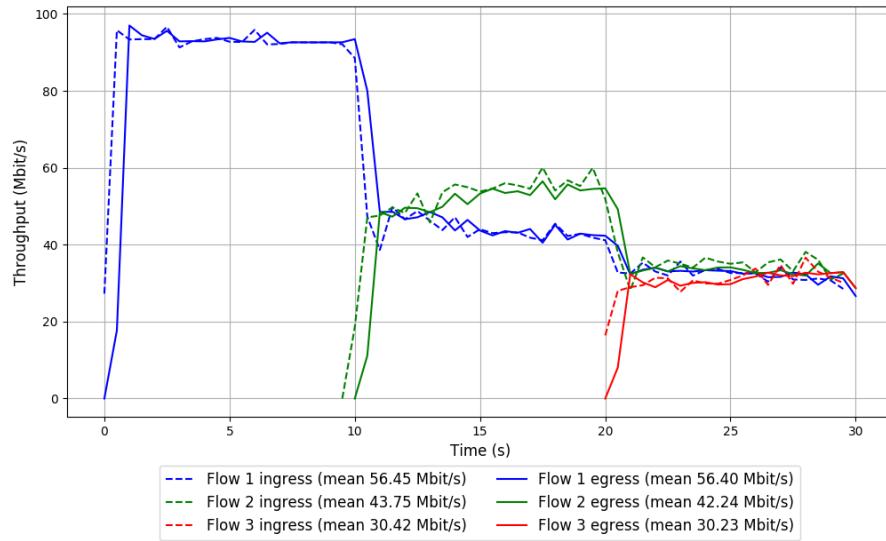


```
Run 1: Statistics of FillP

Start at: 2019-02-05 18:37:02
End at: 2019-02-05 18:37:32
Local clock offset: -0.306 ms
Remote clock offset: -5.708 ms

# Below is generated by plot.py at 2019-02-05 20:27:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.51 Mbit/s
95th percentile per-packet one-way delay: 116.103 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 56.40 Mbit/s
95th percentile per-packet one-way delay: 98.764 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 42.24 Mbit/s
95th percentile per-packet one-way delay: 126.053 ms
Loss rate: 3.76%
-- Flow 3:
Average throughput: 30.23 Mbit/s
95th percentile per-packet one-way delay: 115.798 ms
Loss rate: 1.28%
```

## Run 1: Report of FillP — Data Link

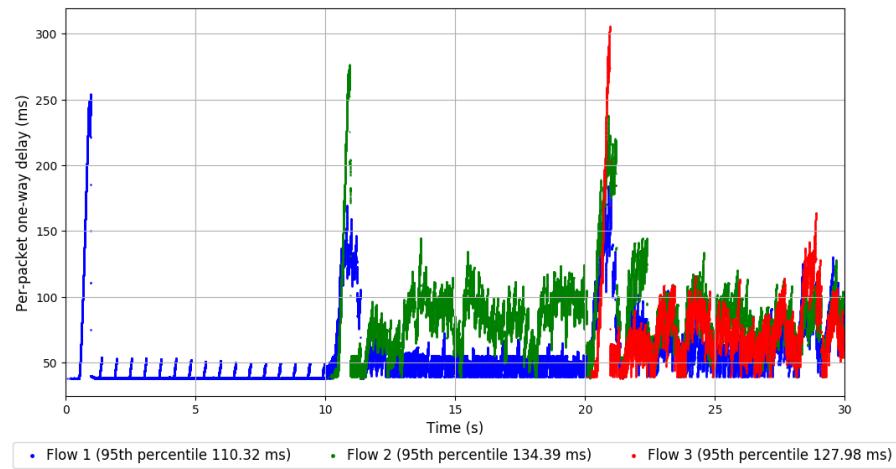
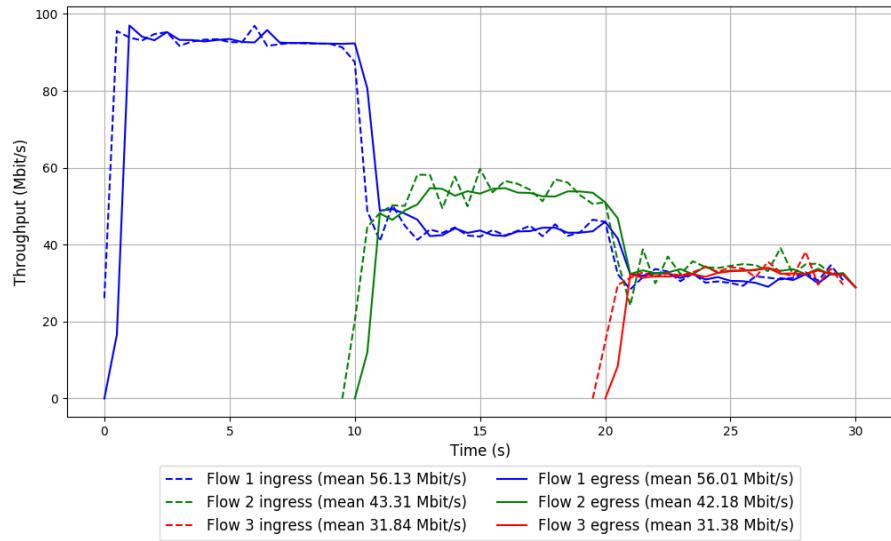


Run 2: Statistics of FillP

```
Start at: 2019-02-05 19:02:46
End at: 2019-02-05 19:03:16
Local clock offset: -0.311 ms
Remote clock offset: -6.561 ms

# Below is generated by plot.py at 2019-02-05 20:27:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.49 Mbit/s
95th percentile per-packet one-way delay: 123.151 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 56.01 Mbit/s
95th percentile per-packet one-way delay: 110.319 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 42.18 Mbit/s
95th percentile per-packet one-way delay: 134.392 ms
Loss rate: 2.91%
-- Flow 3:
Average throughput: 31.38 Mbit/s
95th percentile per-packet one-way delay: 127.977 ms
Loss rate: 2.08%
```

Run 2: Report of FillP — Data Link

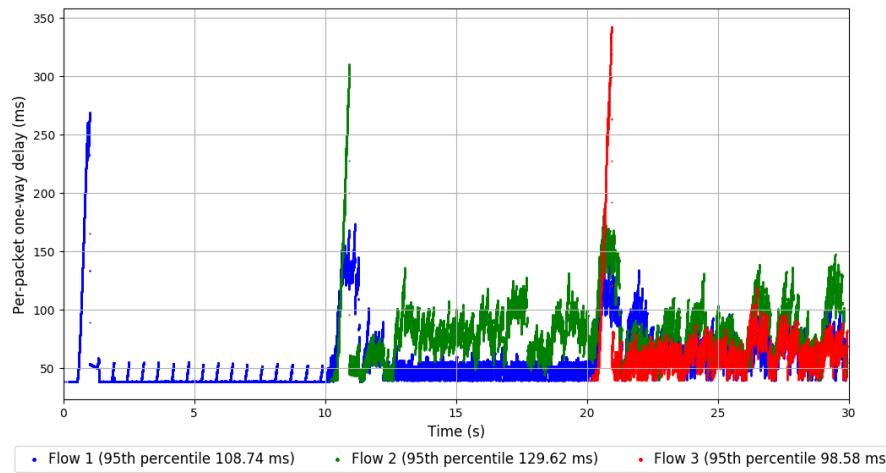
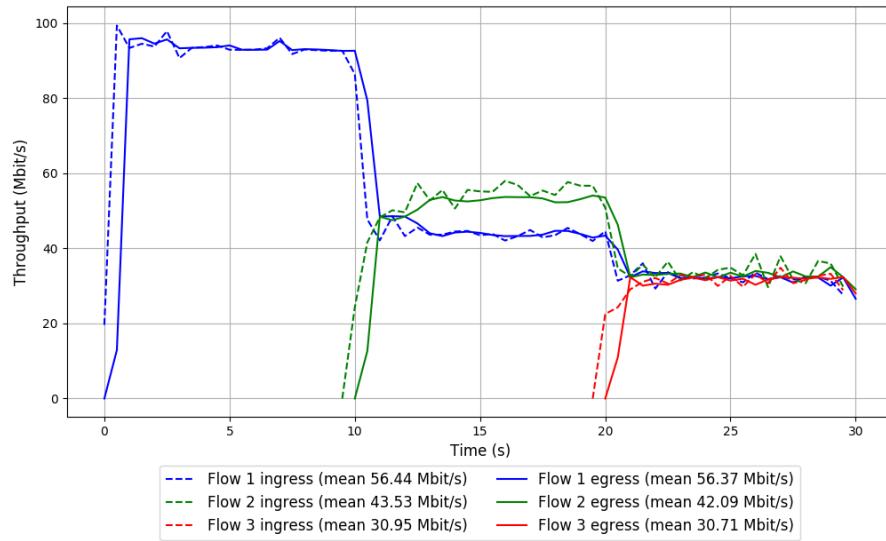


Run 3: Statistics of FillP

```
Start at: 2019-02-05 19:28:51
End at: 2019-02-05 19:29:21
Local clock offset: -0.091 ms
Remote clock offset: -5.739 ms

# Below is generated by plot.py at 2019-02-05 20:27:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.57 Mbit/s
95th percentile per-packet one-way delay: 119.611 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 56.37 Mbit/s
95th percentile per-packet one-way delay: 108.738 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 42.09 Mbit/s
95th percentile per-packet one-way delay: 129.618 ms
Loss rate: 3.62%
-- Flow 3:
Average throughput: 30.71 Mbit/s
95th percentile per-packet one-way delay: 98.576 ms
Loss rate: 1.31%
```

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

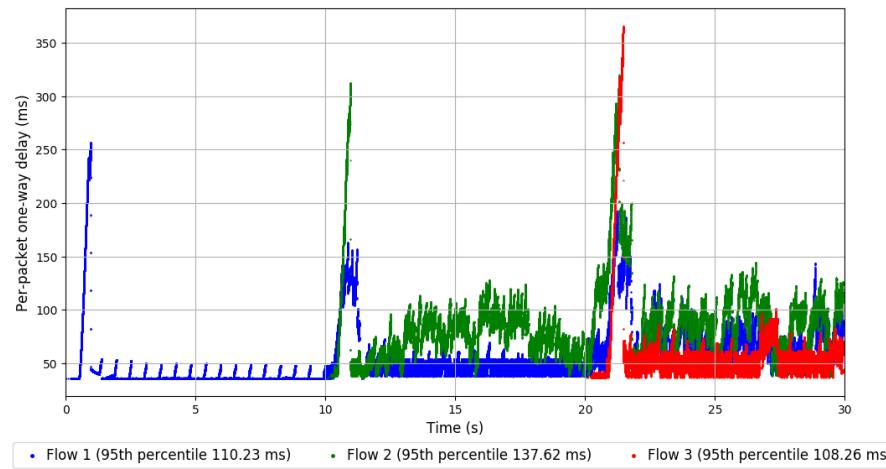
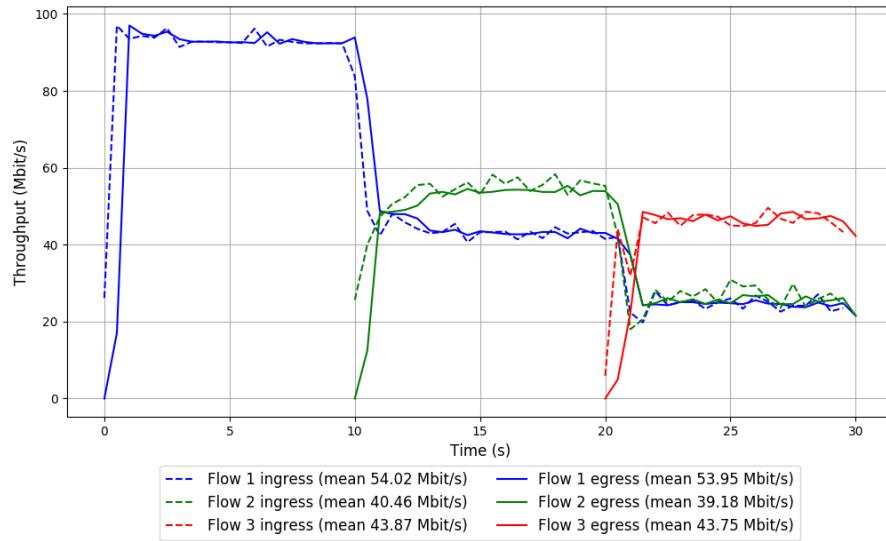


Run 4: Statistics of FillP

```
Start at: 2019-02-05 19:55:12
End at: 2019-02-05 19:55:42
Local clock offset: 0.124 ms
Remote clock offset: -2.499 ms

# Below is generated by plot.py at 2019-02-05 20:27:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.51 Mbit/s
95th percentile per-packet one-way delay: 124.188 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 53.95 Mbit/s
95th percentile per-packet one-way delay: 110.233 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 39.18 Mbit/s
95th percentile per-packet one-way delay: 137.622 ms
Loss rate: 3.45%
-- Flow 3:
Average throughput: 43.75 Mbit/s
95th percentile per-packet one-way delay: 108.258 ms
Loss rate: 0.92%
```

## Run 4: Report of FillP — Data Link

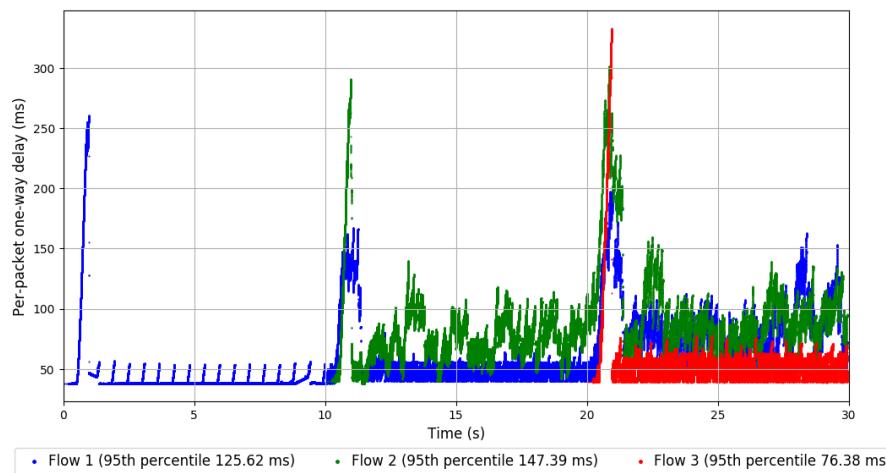
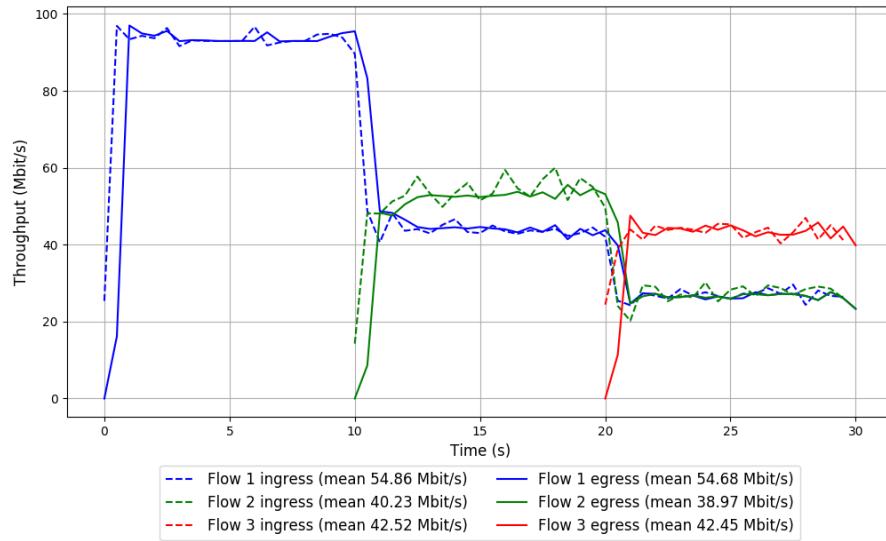


```
Run 5: Statistics of FillP
```

```
Start at: 2019-02-05 20:21:07
End at: 2019-02-05 20:21:37
Local clock offset: 0.164 ms
Remote clock offset: -4.1 ms

# Below is generated by plot.py at 2019-02-05 20:28:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.67 Mbit/s
95th percentile per-packet one-way delay: 128.792 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 54.68 Mbit/s
95th percentile per-packet one-way delay: 125.620 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 38.97 Mbit/s
95th percentile per-packet one-way delay: 147.388 ms
Loss rate: 3.35%
-- Flow 3:
Average throughput: 42.45 Mbit/s
95th percentile per-packet one-way delay: 76.381 ms
Loss rate: 0.82%
```

## Run 5: Report of FillP — Data Link

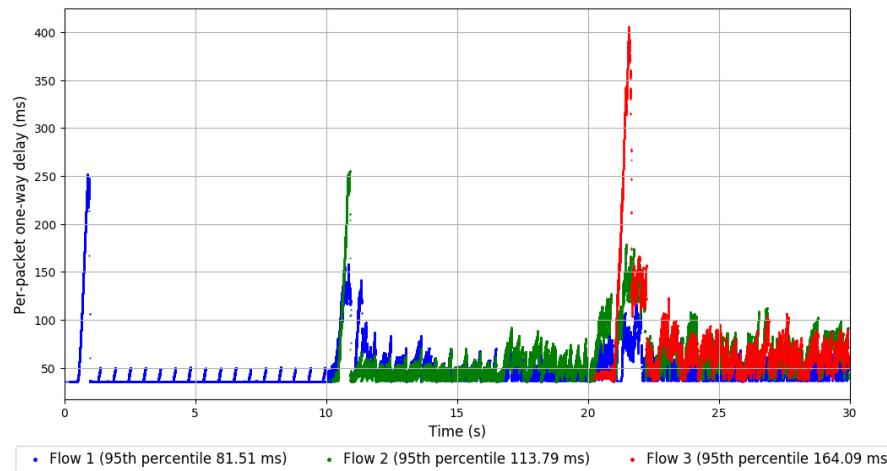
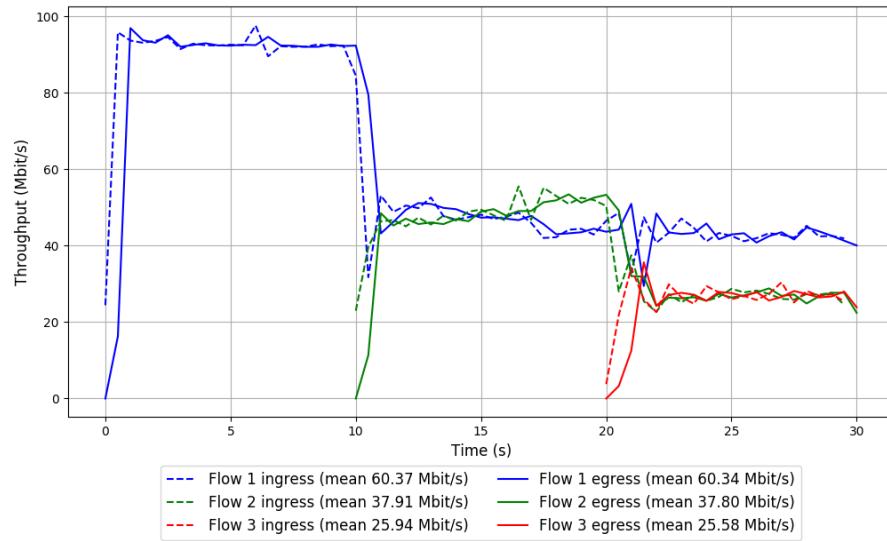


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-02-05 18:33:18
End at: 2019-02-05 18:33:48
Local clock offset: -0.021 ms
Remote clock offset: -5.591 ms

# Below is generated by plot.py at 2019-02-05 20:28:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.96 Mbit/s
95th percentile per-packet one-way delay: 105.221 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 60.34 Mbit/s
95th percentile per-packet one-way delay: 81.512 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 37.80 Mbit/s
95th percentile per-packet one-way delay: 113.794 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 25.58 Mbit/s
95th percentile per-packet one-way delay: 164.094 ms
Loss rate: 1.94%
```

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

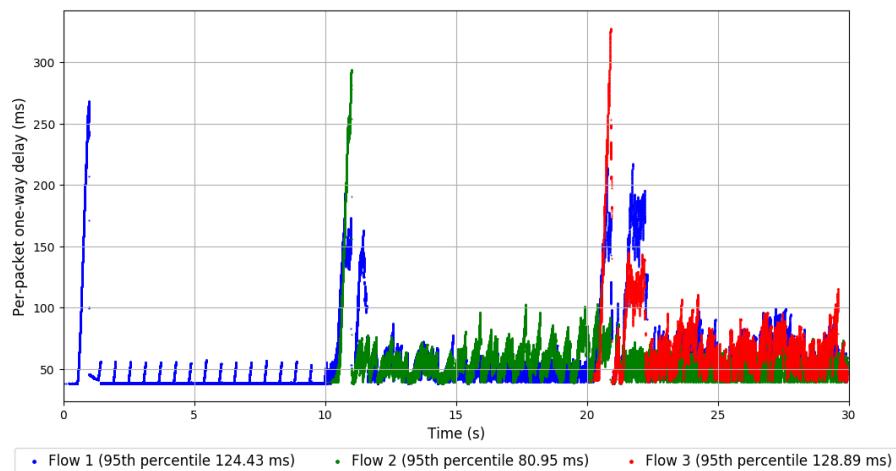
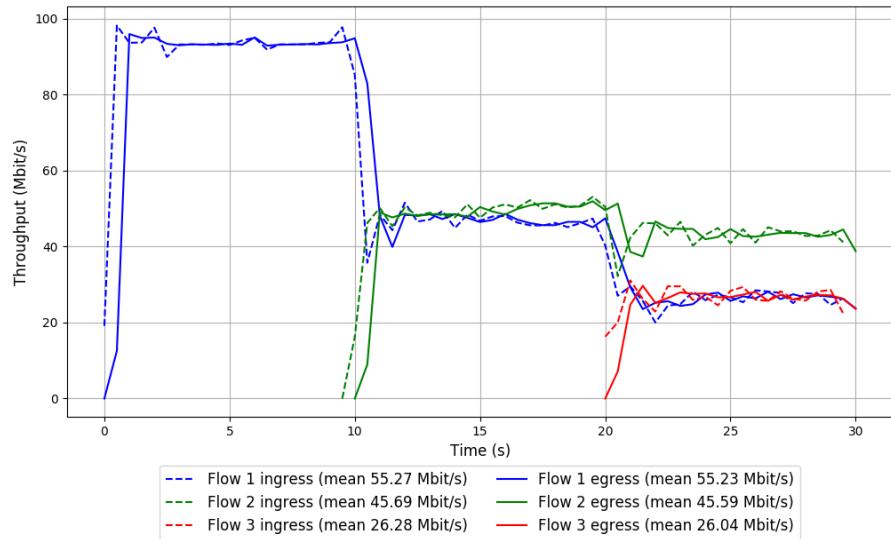


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-02-05 18:59:03
End at: 2019-02-05 18:59:33
Local clock offset: -0.326 ms
Remote clock offset: -6.798 ms

# Below is generated by plot.py at 2019-02-05 20:28:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.18 Mbit/s
95th percentile per-packet one-way delay: 107.541 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 55.23 Mbit/s
95th percentile per-packet one-way delay: 124.426 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 45.59 Mbit/s
95th percentile per-packet one-way delay: 80.948 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 26.04 Mbit/s
95th percentile per-packet one-way delay: 128.893 ms
Loss rate: 1.27%
```

## Run 2: Report of FillP-Sheep — Data Link

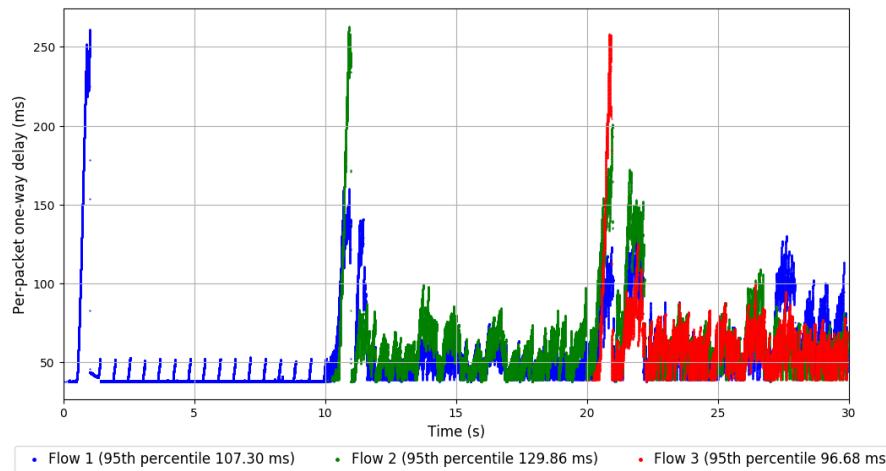
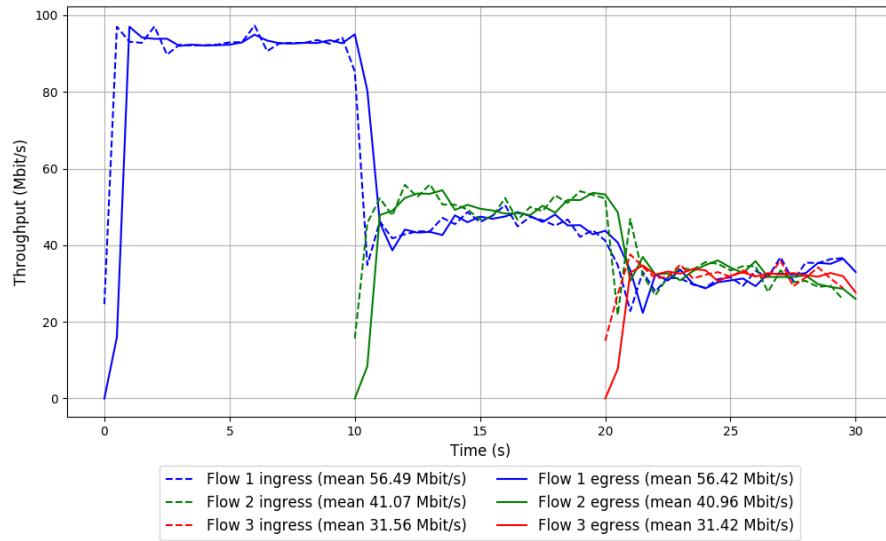


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-02-05 19:24:59
End at: 2019-02-05 19:25:29
Local clock offset: -0.153 ms
Remote clock offset: -5.395 ms

# Below is generated by plot.py at 2019-02-05 20:28:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.07 Mbit/s
95th percentile per-packet one-way delay: 110.884 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 56.42 Mbit/s
95th percentile per-packet one-way delay: 107.298 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 40.96 Mbit/s
95th percentile per-packet one-way delay: 129.864 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 31.42 Mbit/s
95th percentile per-packet one-way delay: 96.677 ms
Loss rate: 1.05%
```

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

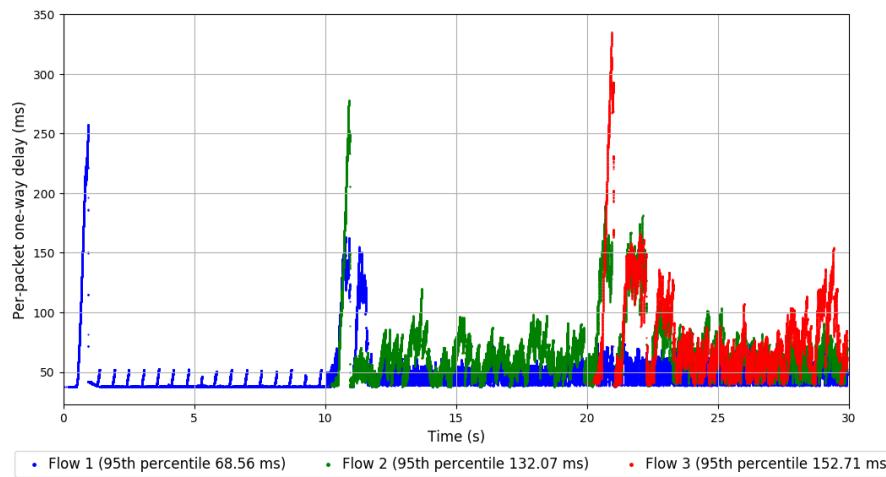
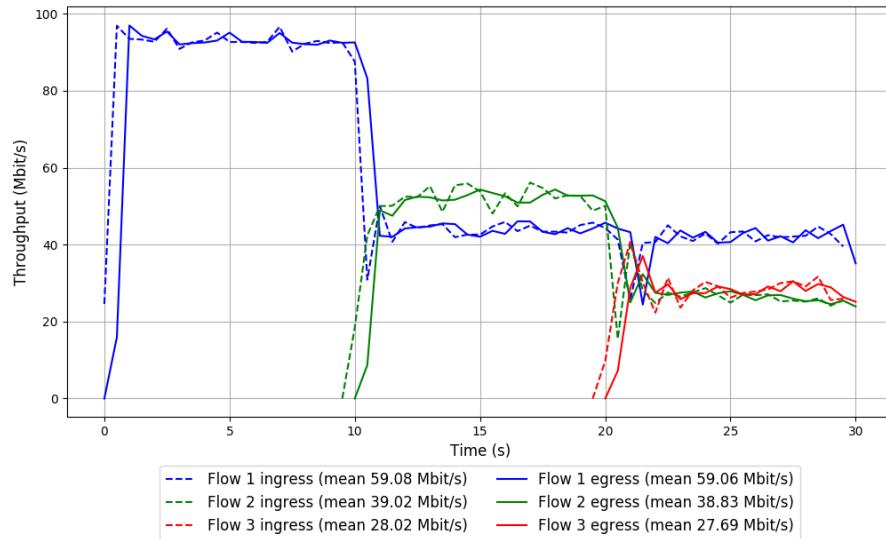


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-02-05 19:51:17
End at: 2019-02-05 19:51:47
Local clock offset: 0.04 ms
Remote clock offset: -4.239 ms

# Below is generated by plot.py at 2019-02-05 20:28:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.08 Mbit/s
95th percentile per-packet one-way delay: 118.511 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 59.06 Mbit/s
95th percentile per-packet one-way delay: 68.565 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 38.83 Mbit/s
95th percentile per-packet one-way delay: 132.072 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 27.69 Mbit/s
95th percentile per-packet one-way delay: 152.706 ms
Loss rate: 1.80%
```

Run 4: Report of FillP-Sheep — Data Link

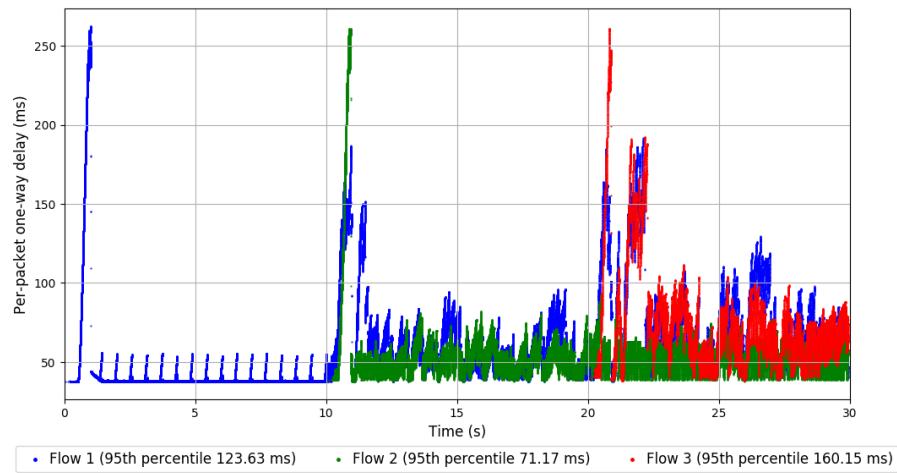
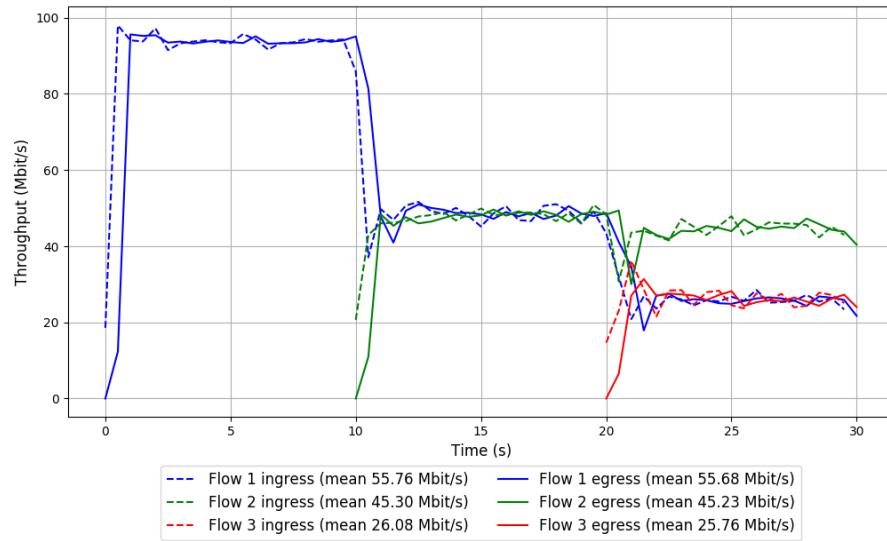


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-02-05 20:17:16
End at: 2019-02-05 20:17:46
Local clock offset: 0.14 ms
Remote clock offset: -3.847 ms

# Below is generated by plot.py at 2019-02-05 20:28:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.30 Mbit/s
95th percentile per-packet one-way delay: 113.443 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 55.68 Mbit/s
95th percentile per-packet one-way delay: 123.630 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 45.23 Mbit/s
95th percentile per-packet one-way delay: 71.168 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 25.76 Mbit/s
95th percentile per-packet one-way delay: 160.146 ms
Loss rate: 1.81%
```

## Run 5: Report of FillP-Sheep — Data Link

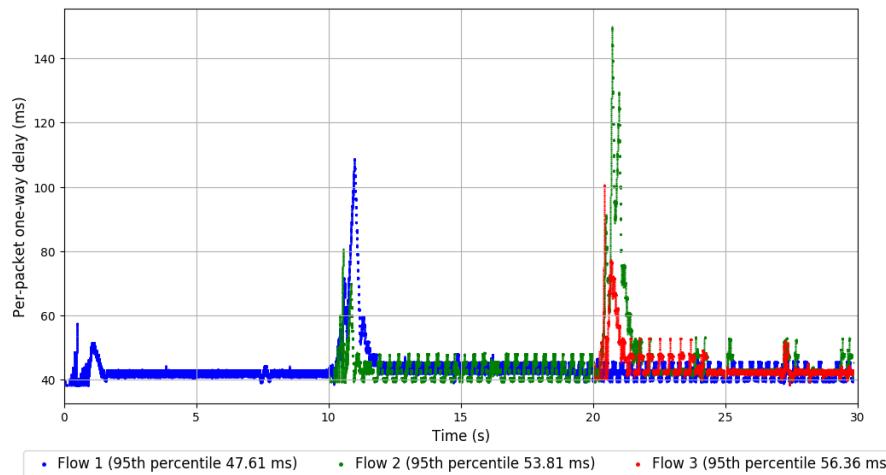
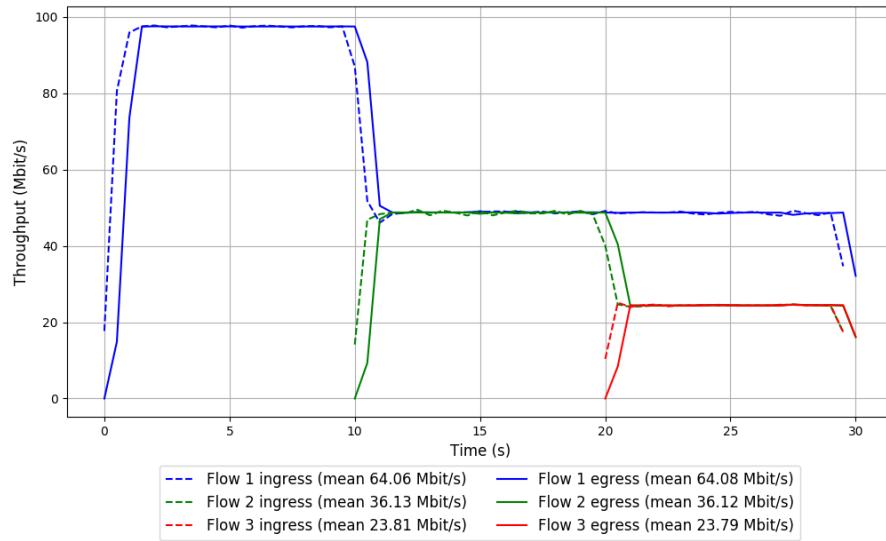


Run 1: Statistics of Indigo

```
Start at: 2019-02-05 18:22:04
End at: 2019-02-05 18:22:34
Local clock offset: 1.578 ms
Remote clock offset: -8.554 ms

# Below is generated by plot.py at 2019-02-05 20:28:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.85 Mbit/s
95th percentile per-packet one-way delay: 49.436 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 64.08 Mbit/s
95th percentile per-packet one-way delay: 47.614 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 36.12 Mbit/s
95th percentile per-packet one-way delay: 53.815 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 23.79 Mbit/s
95th percentile per-packet one-way delay: 56.359 ms
Loss rate: 0.81%
```

## Run 1: Report of Indigo — Data Link

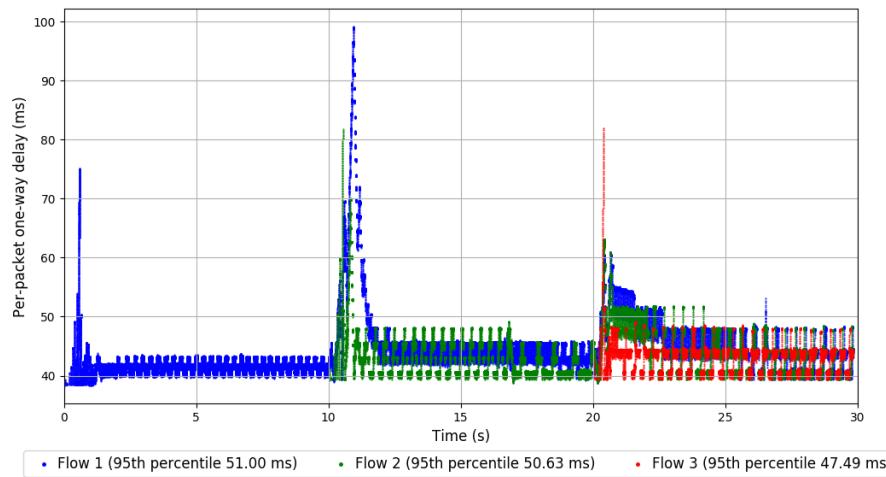
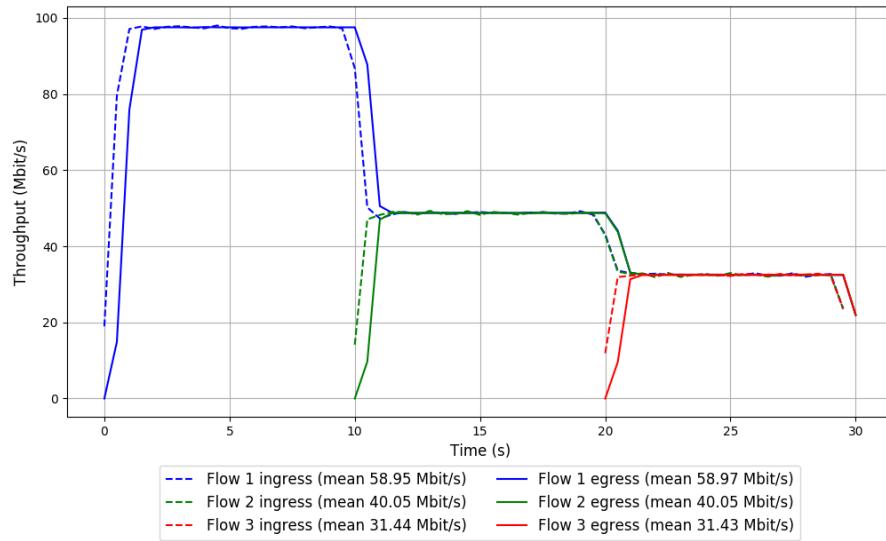


Run 2: Statistics of Indigo

```
Start at: 2019-02-05 18:47:58
End at: 2019-02-05 18:48:28
Local clock offset: -0.659 ms
Remote clock offset: -7.48 ms

# Below is generated by plot.py at 2019-02-05 20:28:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.90 Mbit/s
95th percentile per-packet one-way delay: 50.539 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 58.97 Mbit/s
95th percentile per-packet one-way delay: 51.004 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 40.05 Mbit/s
95th percentile per-packet one-way delay: 50.633 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 31.43 Mbit/s
95th percentile per-packet one-way delay: 47.491 ms
Loss rate: 0.69%
```

## Run 2: Report of Indigo — Data Link

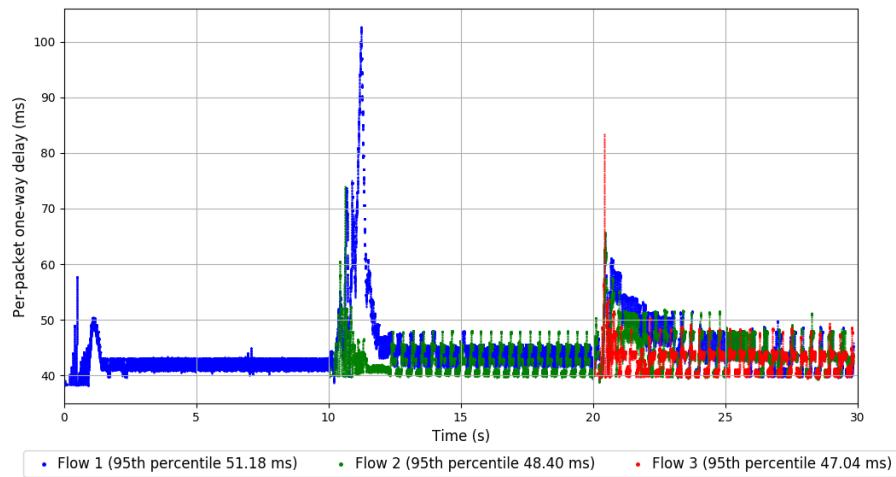
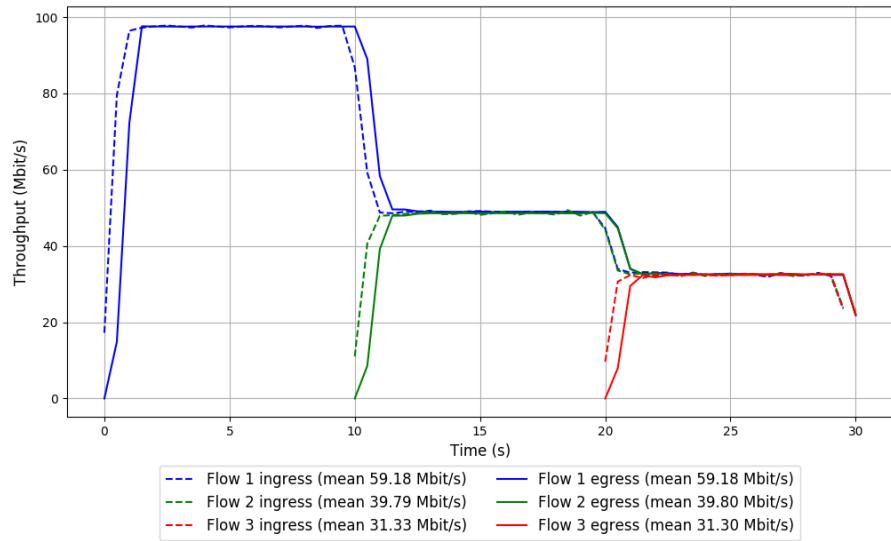


Run 3: Statistics of Indigo

```
Start at: 2019-02-05 19:13:38
End at: 2019-02-05 19:14:08
Local clock offset: -0.448 ms
Remote clock offset: -5.835 ms

# Below is generated by plot.py at 2019-02-05 20:29:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.84 Mbit/s
95th percentile per-packet one-way delay: 50.175 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 59.18 Mbit/s
95th percentile per-packet one-way delay: 51.179 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 39.80 Mbit/s
95th percentile per-packet one-way delay: 48.396 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 31.30 Mbit/s
95th percentile per-packet one-way delay: 47.038 ms
Loss rate: 0.74%
```

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

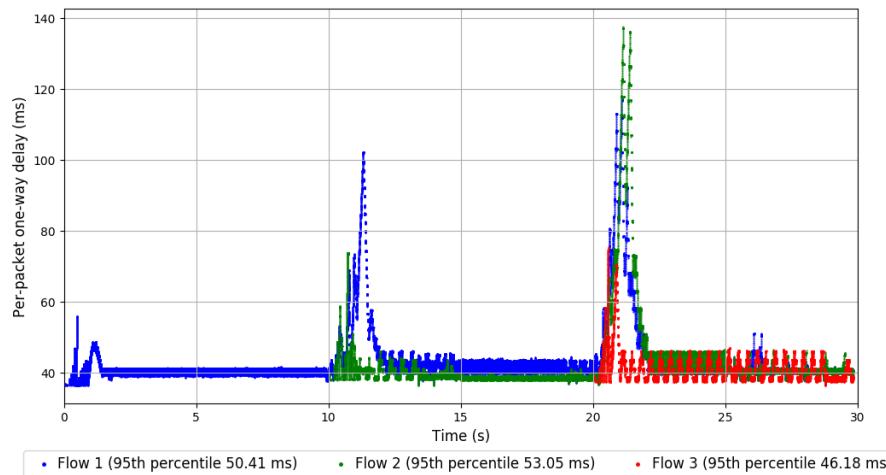
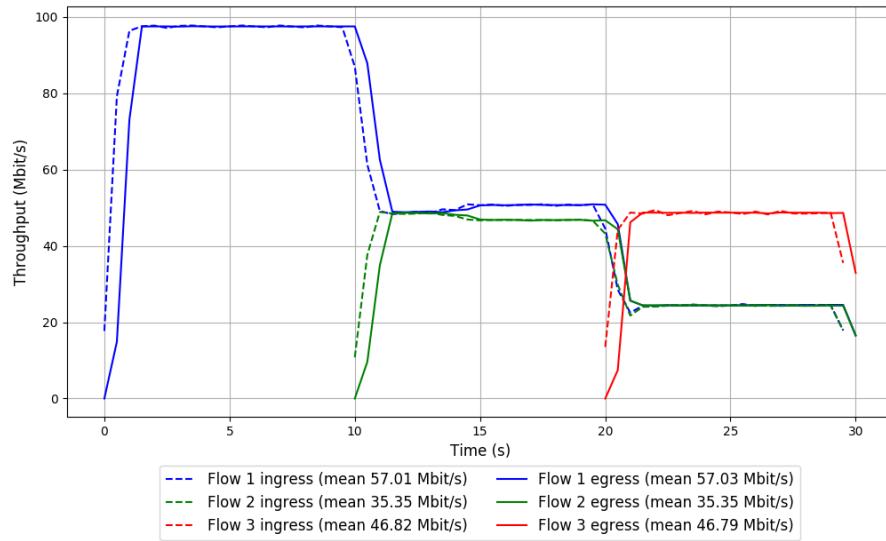


Run 4: Statistics of Indigo

```
Start at: 2019-02-05 19:39:50
End at: 2019-02-05 19:40:20
Local clock offset: -0.111 ms
Remote clock offset: -3.229 ms

# Below is generated by plot.py at 2019-02-05 20:29:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.85 Mbit/s
95th percentile per-packet one-way delay: 49.753 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 57.03 Mbit/s
95th percentile per-packet one-way delay: 50.415 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 35.35 Mbit/s
95th percentile per-packet one-way delay: 53.055 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 46.79 Mbit/s
95th percentile per-packet one-way delay: 46.181 ms
Loss rate: 0.71%
```

## Run 4: Report of Indigo — Data Link

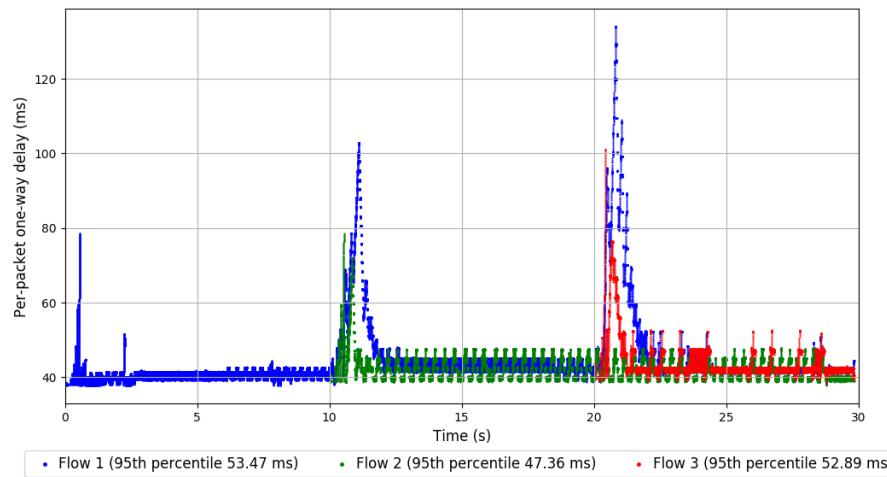
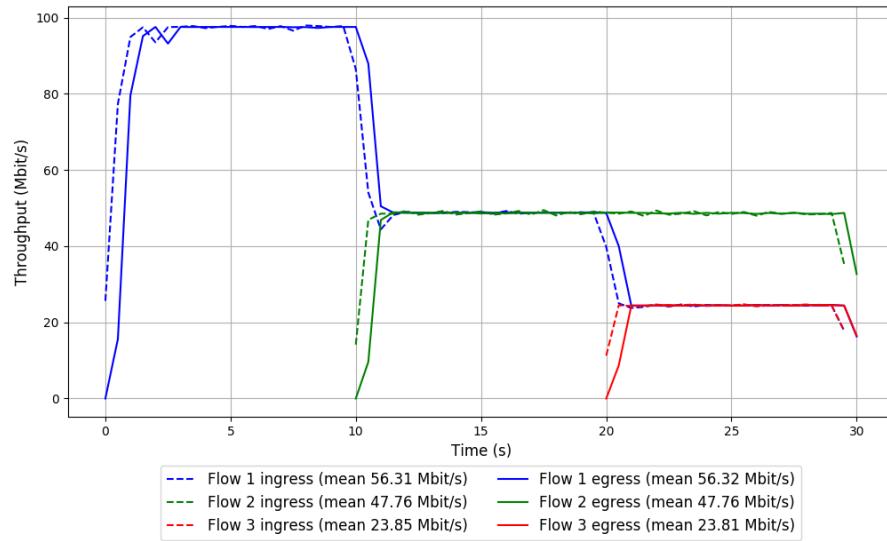


Run 5: Statistics of Indigo

```
Start at: 2019-02-05 20:06:09
End at: 2019-02-05 20:06:39
Local clock offset: 0.168 ms
Remote clock offset: -3.937 ms

# Below is generated by plot.py at 2019-02-05 20:29:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.85 Mbit/s
95th percentile per-packet one-way delay: 49.265 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 56.32 Mbit/s
95th percentile per-packet one-way delay: 53.470 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 47.76 Mbit/s
95th percentile per-packet one-way delay: 47.358 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 23.81 Mbit/s
95th percentile per-packet one-way delay: 52.887 ms
Loss rate: 0.81%
```

## Run 5: Report of Indigo — Data Link

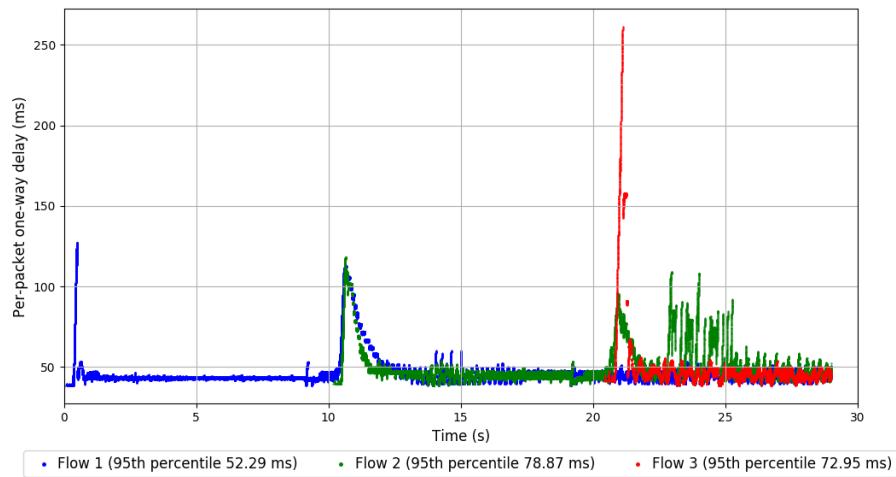
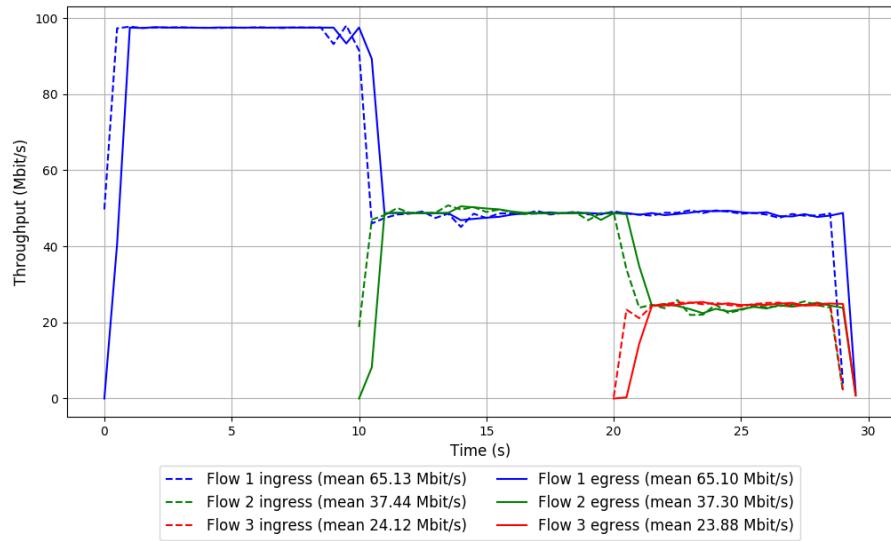


```
Run 1: Statistics of Indigo-MusesC3
```

```
Start at: 2019-02-05 18:27:05
End at: 2019-02-05 18:27:35
Local clock offset: 0.653 ms
Remote clock offset: -8.322 ms

# Below is generated by plot.py at 2019-02-05 20:29:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.46 Mbit/s
95th percentile per-packet one-way delay: 65.948 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 65.10 Mbit/s
95th percentile per-packet one-way delay: 52.289 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 37.30 Mbit/s
95th percentile per-packet one-way delay: 78.873 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 23.88 Mbit/s
95th percentile per-packet one-way delay: 72.948 ms
Loss rate: 1.75%
```

Run 1: Report of Indigo-MusesC3 — Data Link

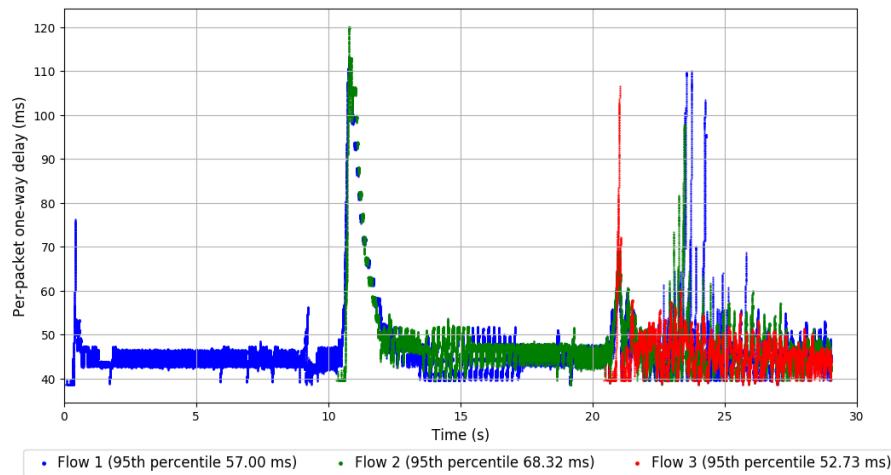
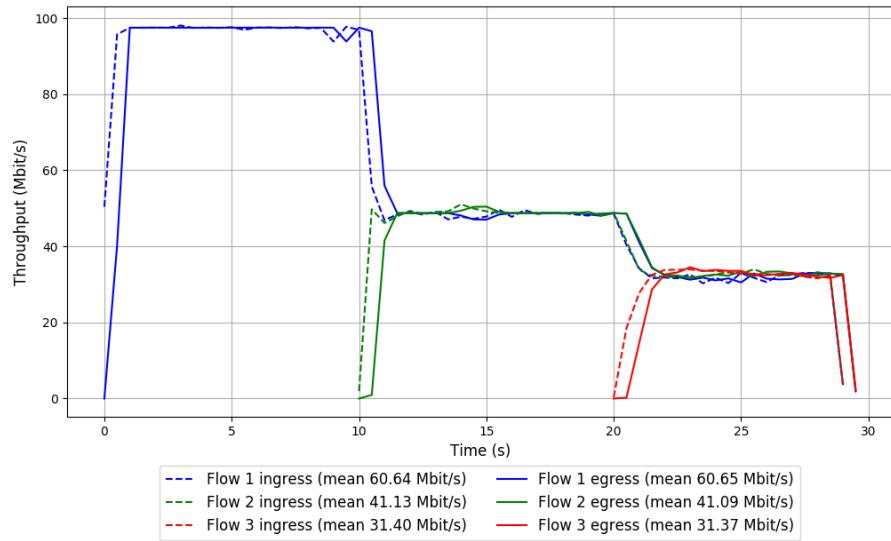


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-02-05 18:52:51
End at: 2019-02-05 18:53:21
Local clock offset: -0.424 ms
Remote clock offset: -7.378 ms

# Below is generated by plot.py at 2019-02-05 20:29:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.51 Mbit/s
95th percentile per-packet one-way delay: 59.083 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 60.65 Mbit/s
95th percentile per-packet one-way delay: 57.004 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 41.09 Mbit/s
95th percentile per-packet one-way delay: 68.320 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 31.37 Mbit/s
95th percentile per-packet one-way delay: 52.725 ms
Loss rate: 0.84%
```

Run 2: Report of Indigo-MusesC3 — Data Link

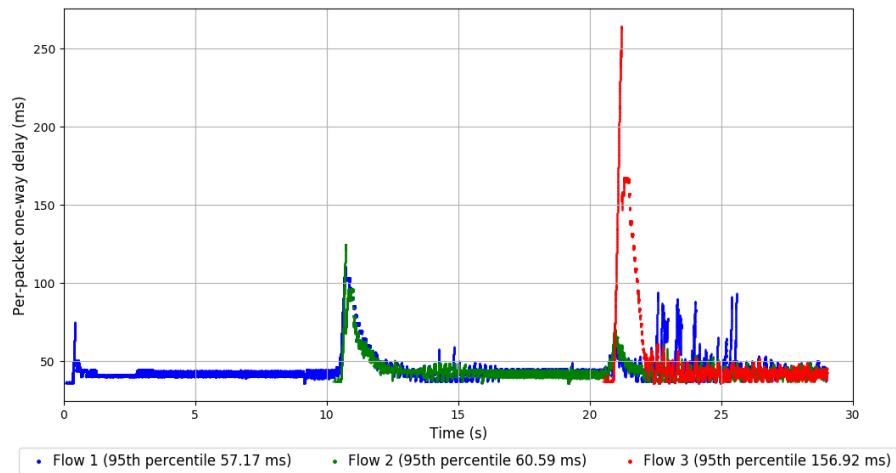
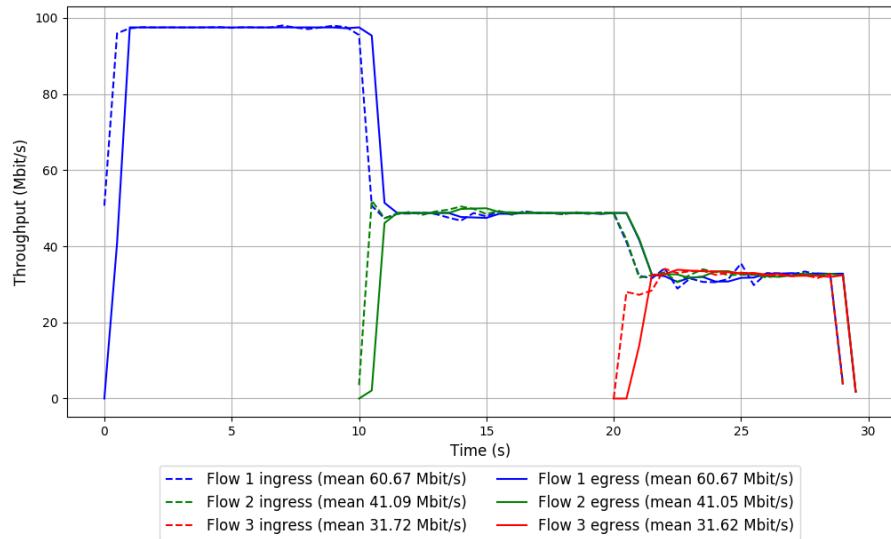


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-02-05 19:18:30
End at: 2019-02-05 19:19:00
Local clock offset: -0.354 ms
Remote clock offset: -3.616 ms

# Below is generated by plot.py at 2019-02-05 20:29:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.58 Mbit/s
95th percentile per-packet one-way delay: 62.369 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 60.67 Mbit/s
95th percentile per-packet one-way delay: 57.173 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 41.05 Mbit/s
95th percentile per-packet one-way delay: 60.593 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 31.62 Mbit/s
95th percentile per-packet one-way delay: 156.917 ms
Loss rate: 1.06%
```

### Run 3: Report of Indigo-MusesC3 — Data Link

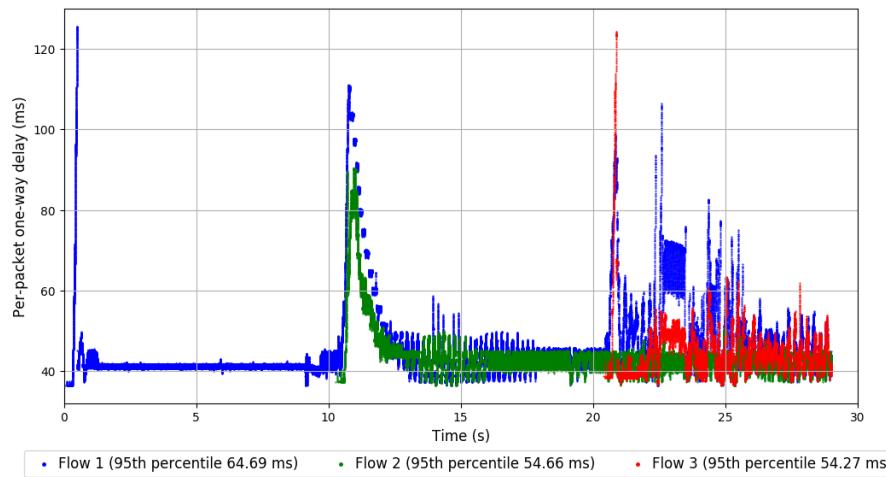
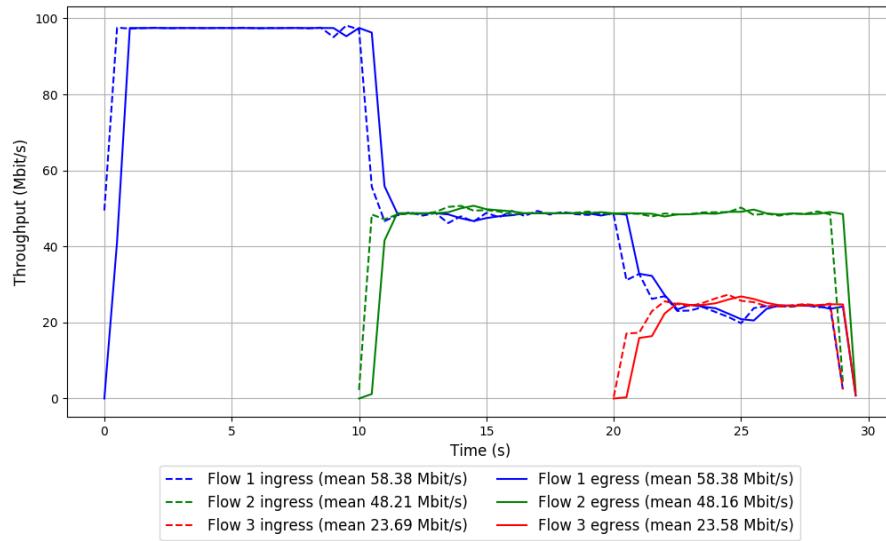


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-02-05 19:44:52
End at: 2019-02-05 19:45:22
Local clock offset: -0.177 ms
Remote clock offset: -3.123 ms

# Below is generated by plot.py at 2019-02-05 20:29:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.54 Mbit/s
95th percentile per-packet one-way delay: 60.197 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 58.38 Mbit/s
95th percentile per-packet one-way delay: 64.690 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 48.16 Mbit/s
95th percentile per-packet one-way delay: 54.656 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 23.58 Mbit/s
95th percentile per-packet one-way delay: 54.274 ms
Loss rate: 1.24%
```

## Run 4: Report of Indigo-MusesC3 — Data Link

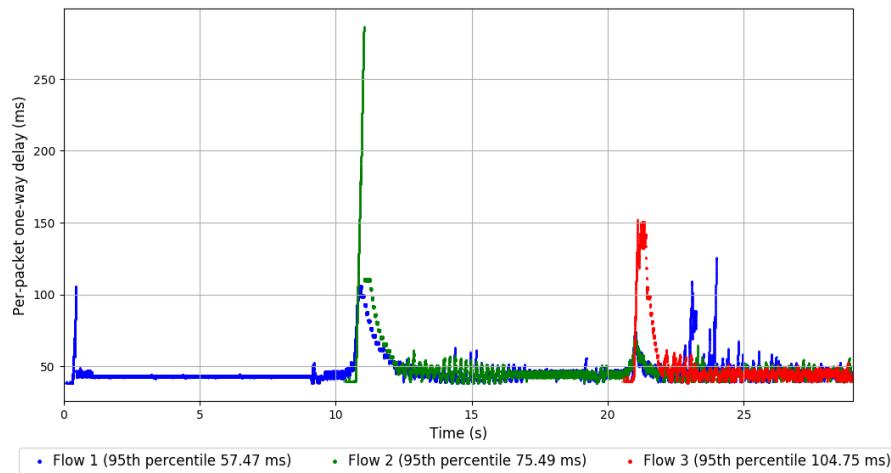
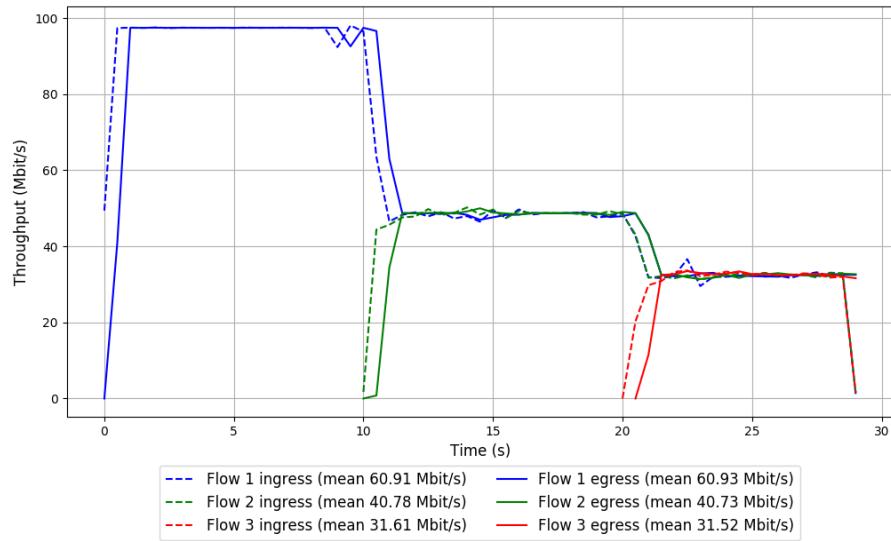


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-02-05 20:11:01
End at: 2019-02-05 20:11:31
Local clock offset: 0.165 ms
Remote clock offset: -4.306 ms

# Below is generated by plot.py at 2019-02-05 20:29:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.44 Mbit/s
95th percentile per-packet one-way delay: 65.479 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 60.93 Mbit/s
95th percentile per-packet one-way delay: 57.473 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 40.73 Mbit/s
95th percentile per-packet one-way delay: 75.488 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 31.52 Mbit/s
95th percentile per-packet one-way delay: 104.755 ms
Loss rate: 1.06%
```

## Run 5: Report of Indigo-MusesC3 — Data Link

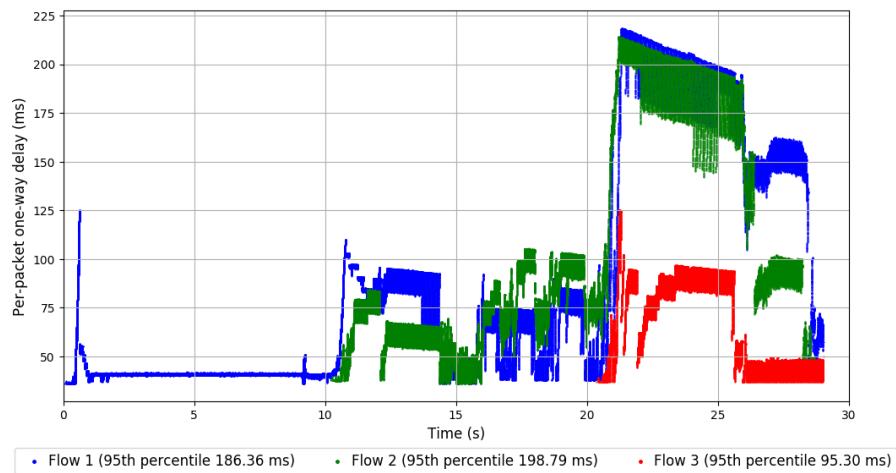
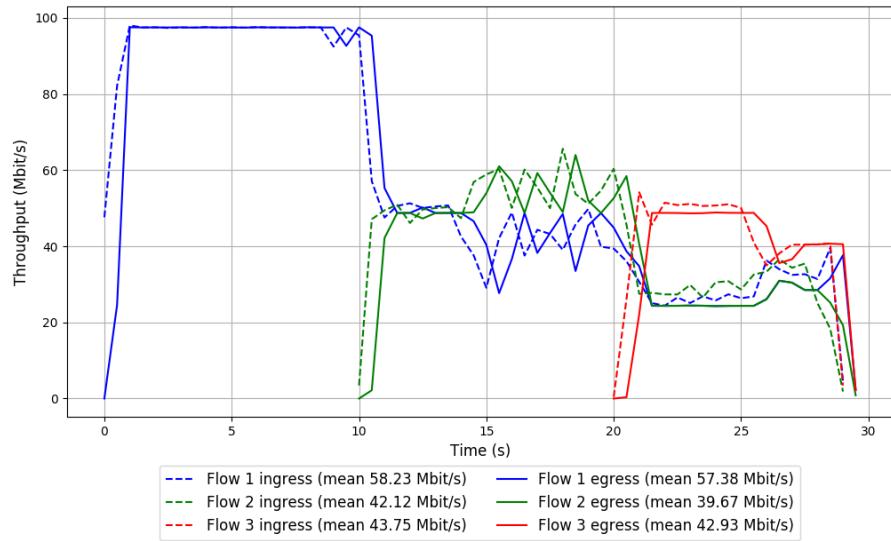


Run 1: Statistics of Indigo-MusesC5

```
Start at: 2019-02-05 18:14:46
End at: 2019-02-05 18:15:16
Local clock offset: 3.473 ms
Remote clock offset: -6.818 ms

# Below is generated by plot.py at 2019-02-05 20:30:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.93 Mbit/s
95th percentile per-packet one-way delay: 188.878 ms
Loss rate: 3.02%
-- Flow 1:
Average throughput: 57.38 Mbit/s
95th percentile per-packet one-way delay: 186.364 ms
Loss rate: 1.67%
-- Flow 2:
Average throughput: 39.67 Mbit/s
95th percentile per-packet one-way delay: 198.793 ms
Loss rate: 6.17%
-- Flow 3:
Average throughput: 42.93 Mbit/s
95th percentile per-packet one-way delay: 95.301 ms
Loss rate: 2.45%
```

Run 1: Report of Indigo-MusesC5 — Data Link

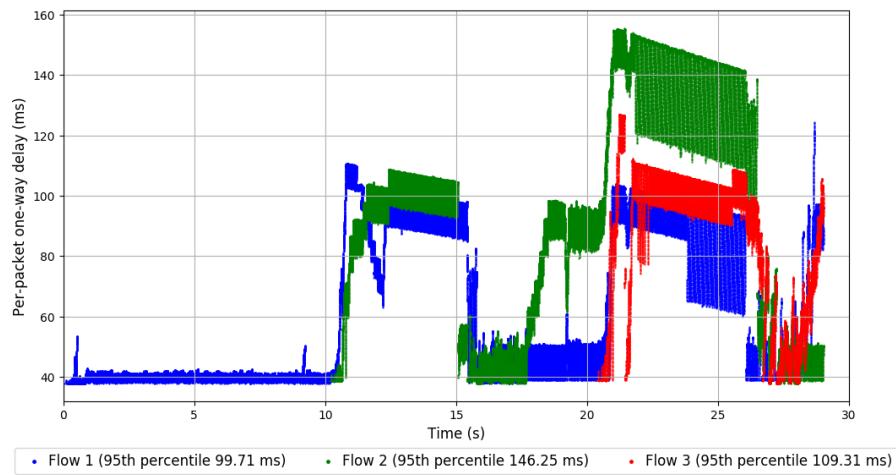
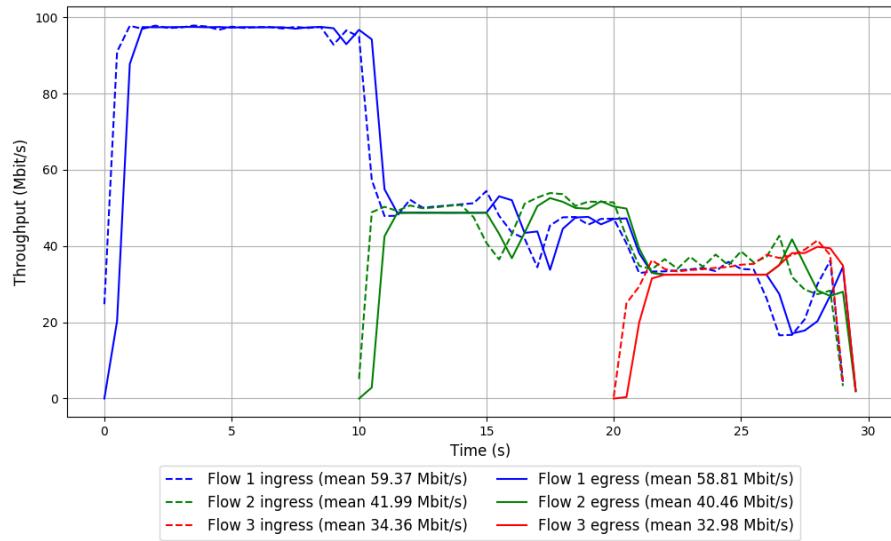


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-02-05 18:40:38
End at: 2019-02-05 18:41:08
Local clock offset: -0.558 ms
Remote clock offset: -7.283 ms

# Below is generated by plot.py at 2019-02-05 20:30:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.00 Mbit/s
95th percentile per-packet one-way delay: 125.983 ms
Loss rate: 2.31%
-- Flow 1:
Average throughput: 58.81 Mbit/s
95th percentile per-packet one-way delay: 99.706 ms
Loss rate: 1.14%
-- Flow 2:
Average throughput: 40.46 Mbit/s
95th percentile per-packet one-way delay: 146.245 ms
Loss rate: 3.97%
-- Flow 3:
Average throughput: 32.98 Mbit/s
95th percentile per-packet one-way delay: 109.307 ms
Loss rate: 4.63%
```

## Run 2: Report of Indigo-MusesC5 — Data Link

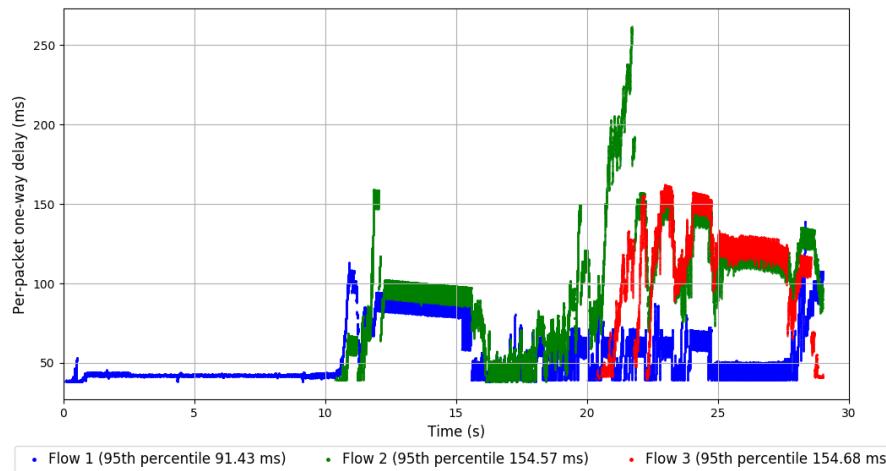
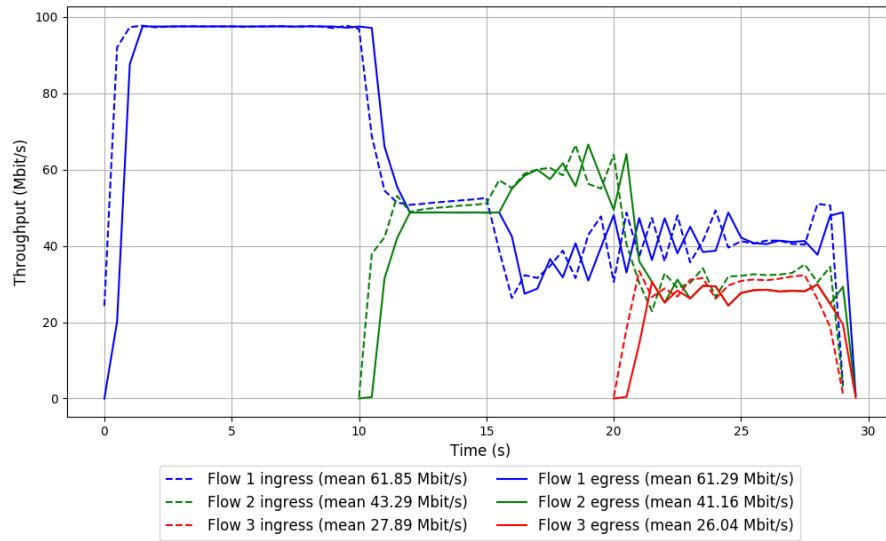


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-02-05 19:06:20
End at: 2019-02-05 19:06:50
Local clock offset: -0.351 ms
Remote clock offset: -6.15 ms

# Below is generated by plot.py at 2019-02-05 20:30:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.58 Mbit/s
95th percentile per-packet one-way delay: 130.190 ms
Loss rate: 2.82%
-- Flow 1:
Average throughput: 61.29 Mbit/s
95th percentile per-packet one-way delay: 91.426 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 41.16 Mbit/s
95th percentile per-packet one-way delay: 154.566 ms
Loss rate: 5.23%
-- Flow 3:
Average throughput: 26.04 Mbit/s
95th percentile per-packet one-way delay: 154.679 ms
Loss rate: 7.33%
```

### Run 3: Report of Indigo-MusesC5 — Data Link

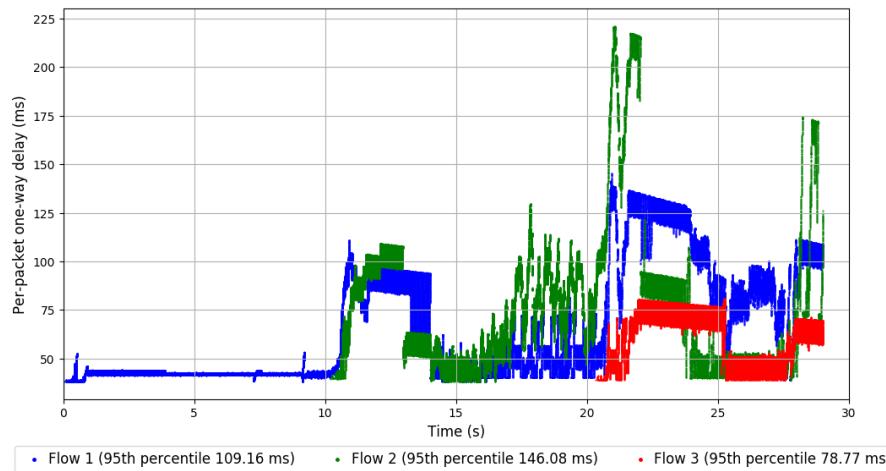
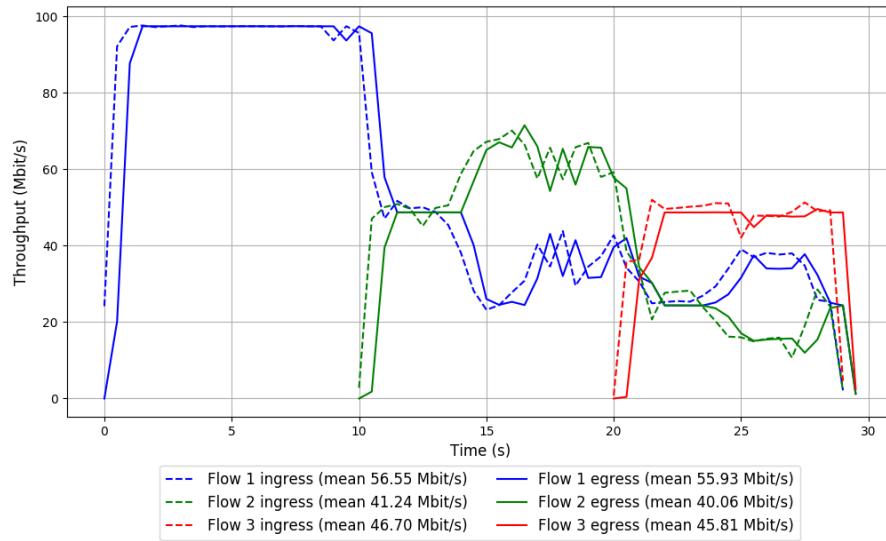


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-02-05 19:32:27
End at: 2019-02-05 19:32:57
Local clock offset: -0.095 ms
Remote clock offset: -5.183 ms

# Below is generated by plot.py at 2019-02-05 20:30:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.67 Mbit/s
95th percentile per-packet one-way delay: 109.094 ms
Loss rate: 1.96%
-- Flow 1:
Average throughput: 55.93 Mbit/s
95th percentile per-packet one-way delay: 109.158 ms
Loss rate: 1.29%
-- Flow 2:
Average throughput: 40.06 Mbit/s
95th percentile per-packet one-way delay: 146.083 ms
Loss rate: 3.05%
-- Flow 3:
Average throughput: 45.81 Mbit/s
95th percentile per-packet one-way delay: 78.771 ms
Loss rate: 2.56%
```

Run 4: Report of Indigo-MusesC5 — Data Link

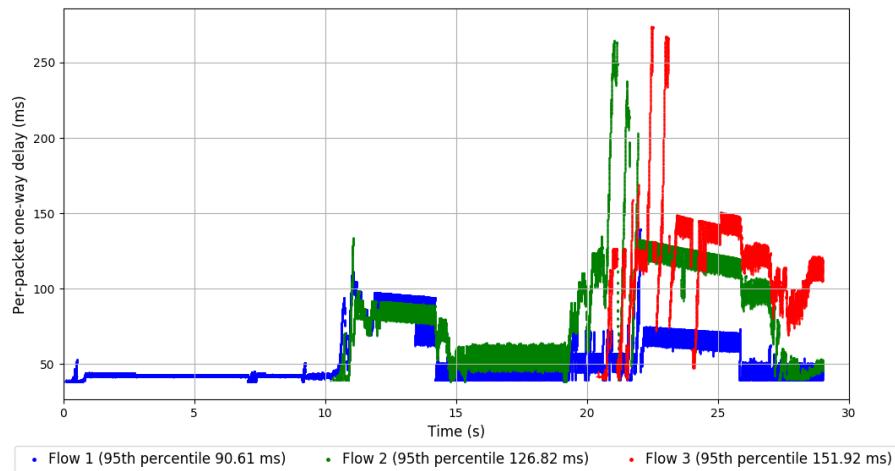
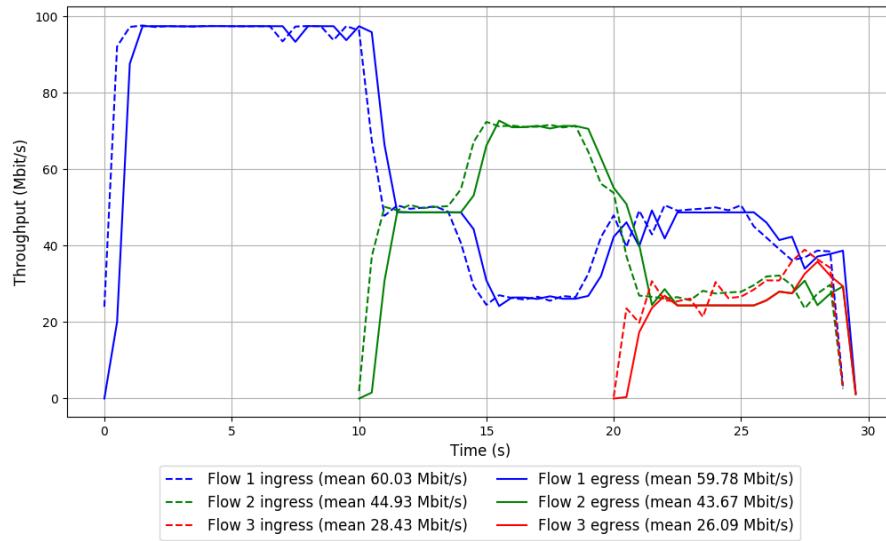


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-02-05 19:58:47
End at: 2019-02-05 19:59:17
Local clock offset: 0.153 ms
Remote clock offset: -4.592 ms

# Below is generated by plot.py at 2019-02-05 20:30:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.89 Mbit/s
95th percentile per-packet one-way delay: 124.914 ms
Loss rate: 2.09%
-- Flow 1:
Average throughput: 59.78 Mbit/s
95th percentile per-packet one-way delay: 90.609 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 43.67 Mbit/s
95th percentile per-packet one-way delay: 126.823 ms
Loss rate: 3.14%
-- Flow 3:
Average throughput: 26.09 Mbit/s
95th percentile per-packet one-way delay: 151.922 ms
Loss rate: 8.85%
```

## Run 5: Report of Indigo-MusesC5 — Data Link

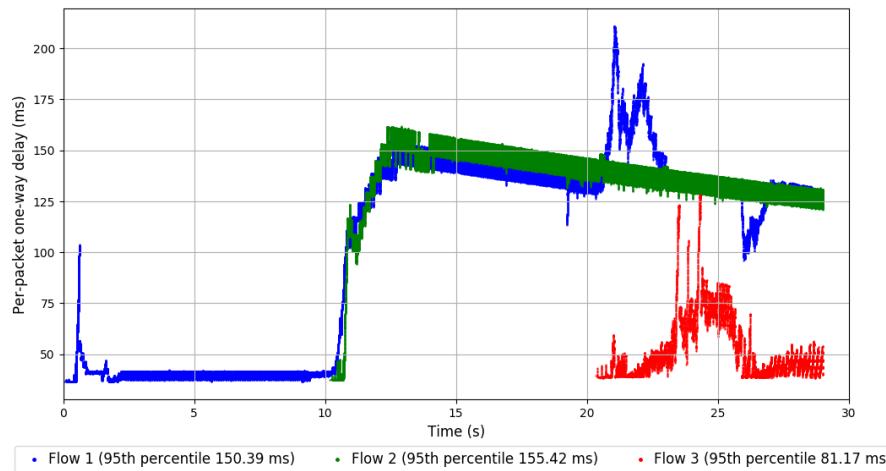
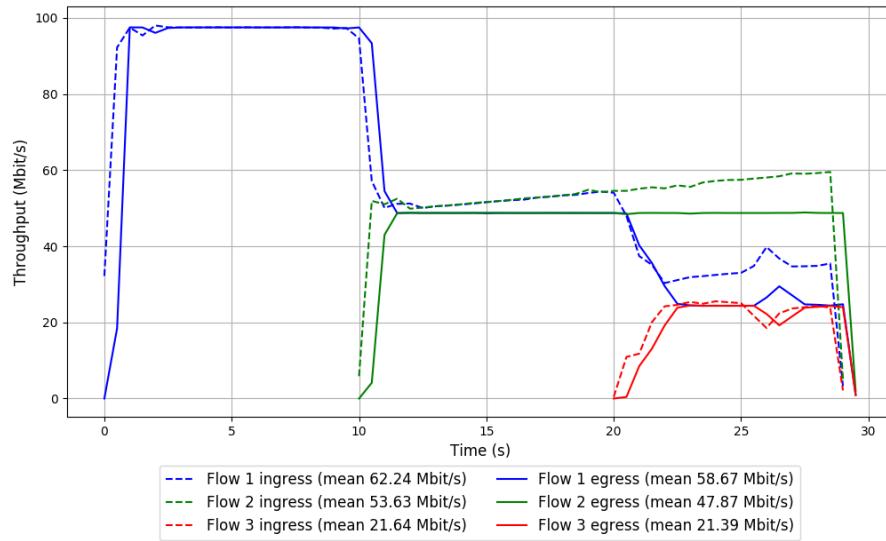


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-02-05 18:25:47
End at: 2019-02-05 18:26:17
Local clock offset: 0.819 ms
Remote clock offset: -6.726 ms

# Below is generated by plot.py at 2019-02-05 20:30:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.19 Mbit/s
95th percentile per-packet one-way delay: 153.056 ms
Loss rate: 7.39%
-- Flow 1:
Average throughput: 58.67 Mbit/s
95th percentile per-packet one-way delay: 150.386 ms
Loss rate: 5.93%
-- Flow 2:
Average throughput: 47.87 Mbit/s
95th percentile per-packet one-way delay: 155.418 ms
Loss rate: 11.02%
-- Flow 3:
Average throughput: 21.39 Mbit/s
95th percentile per-packet one-way delay: 81.170 ms
Loss rate: 1.90%
```

## Run 1: Report of Indigo-MusesD — Data Link

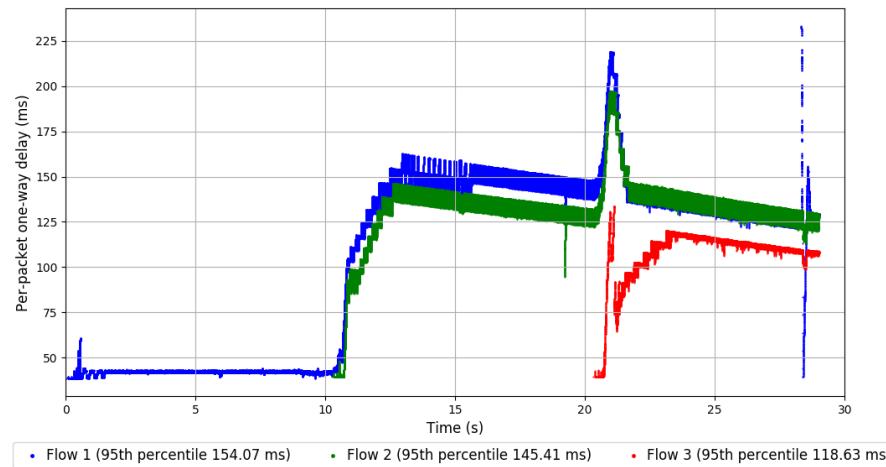
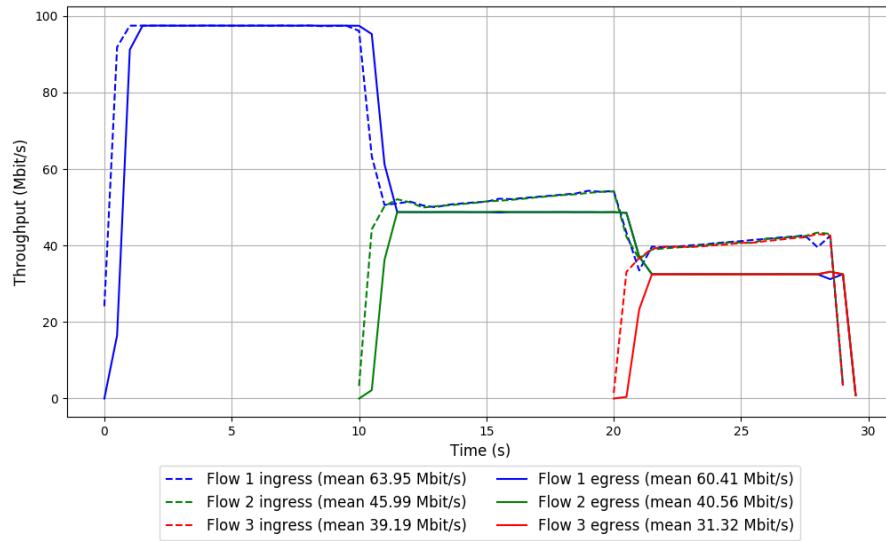


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-02-05 18:51:37
End at: 2019-02-05 18:52:07
Local clock offset: -0.452 ms
Remote clock offset: -7.404 ms

# Below is generated by plot.py at 2019-02-05 20:30:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.08 Mbit/s
95th percentile per-packet one-way delay: 152.900 ms
Loss rate: 9.21%
-- Flow 1:
Average throughput: 60.41 Mbit/s
95th percentile per-packet one-way delay: 154.070 ms
Loss rate: 5.75%
-- Flow 2:
Average throughput: 40.56 Mbit/s
95th percentile per-packet one-way delay: 145.414 ms
Loss rate: 12.11%
-- Flow 3:
Average throughput: 31.32 Mbit/s
95th percentile per-packet one-way delay: 118.634 ms
Loss rate: 20.65%
```

## Run 2: Report of Indigo-MusesD — Data Link

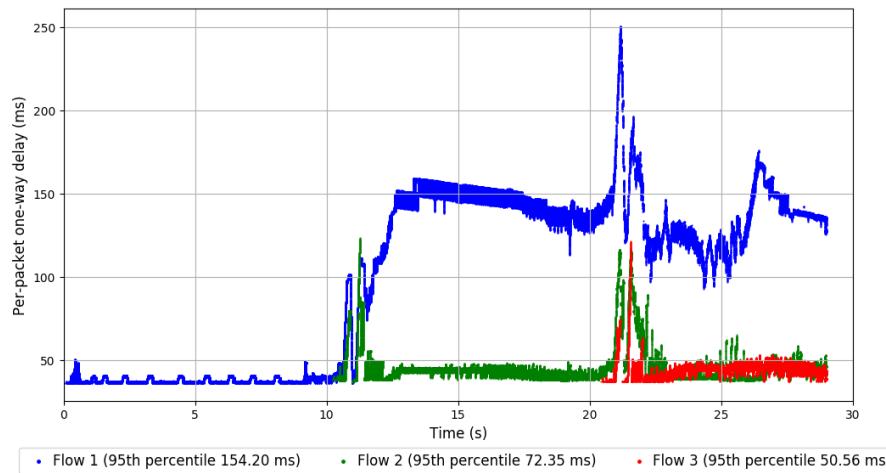
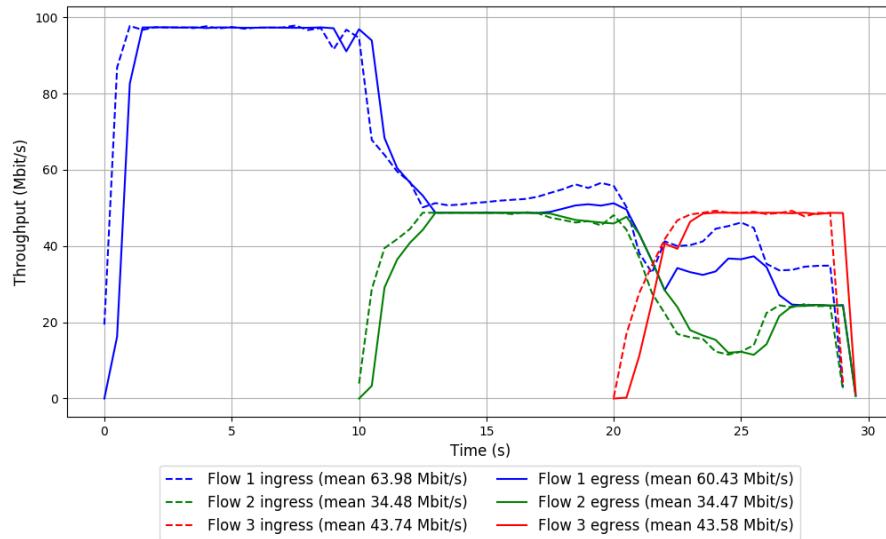


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-02-05 19:17:17
End at: 2019-02-05 19:17:47
Local clock offset: -0.417 ms
Remote clock offset: -3.703 ms

# Below is generated by plot.py at 2019-02-05 20:30:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.72 Mbit/s
95th percentile per-packet one-way delay: 151.550 ms
Loss rate: 3.93%
-- Flow 1:
Average throughput: 60.43 Mbit/s
95th percentile per-packet one-way delay: 154.201 ms
Loss rate: 5.74%
-- Flow 2:
Average throughput: 34.47 Mbit/s
95th percentile per-packet one-way delay: 72.354 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 43.58 Mbit/s
95th percentile per-packet one-way delay: 50.563 ms
Loss rate: 1.11%
```

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

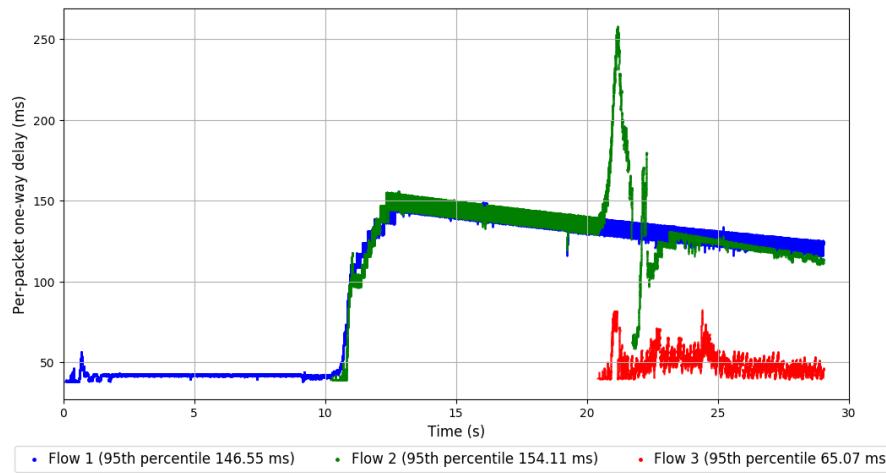
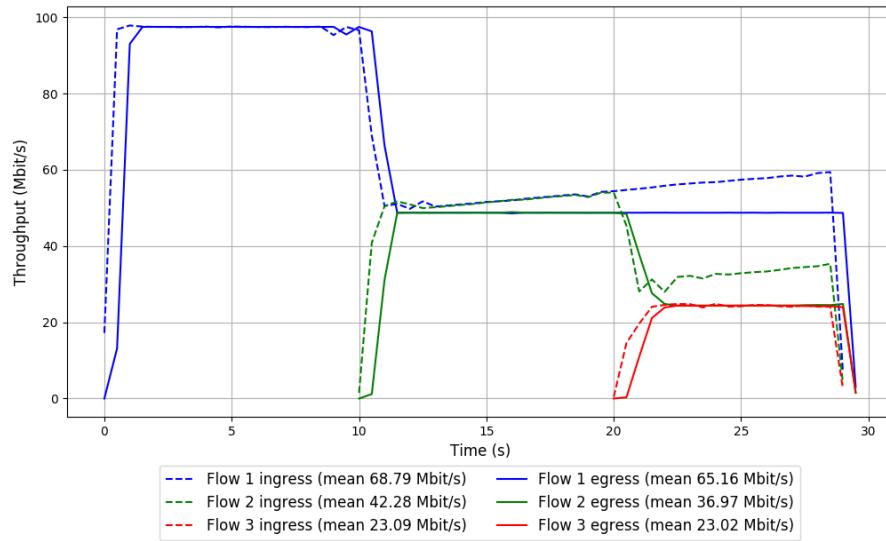


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-02-05 19:43:32
End at: 2019-02-05 19:44:02
Local clock offset: -0.147 ms
Remote clock offset: -4.814 ms

# Below is generated by plot.py at 2019-02-05 20:31:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.02 Mbit/s
95th percentile per-packet one-way delay: 149.387 ms
Loss rate: 7.14%
-- Flow 1:
Average throughput: 65.16 Mbit/s
95th percentile per-packet one-way delay: 146.550 ms
Loss rate: 5.47%
-- Flow 2:
Average throughput: 36.97 Mbit/s
95th percentile per-packet one-way delay: 154.106 ms
Loss rate: 12.86%
-- Flow 3:
Average throughput: 23.02 Mbit/s
95th percentile per-packet one-way delay: 65.074 ms
Loss rate: 1.06%
```

## Run 4: Report of Indigo-MusesD — Data Link

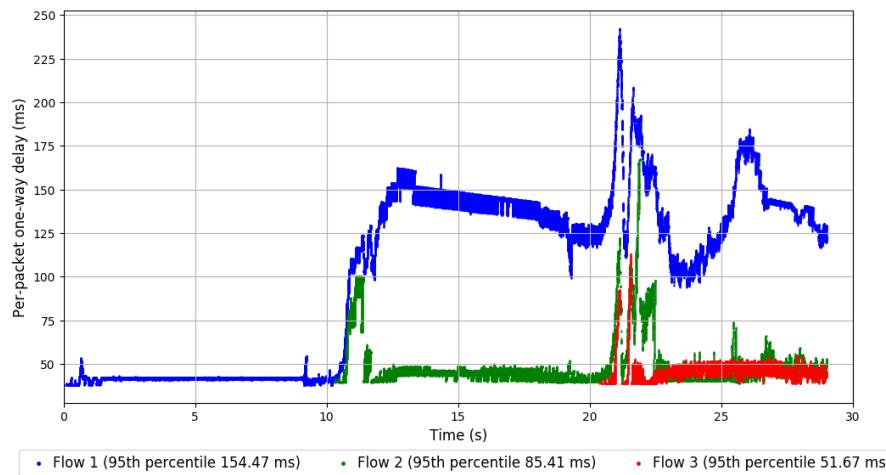
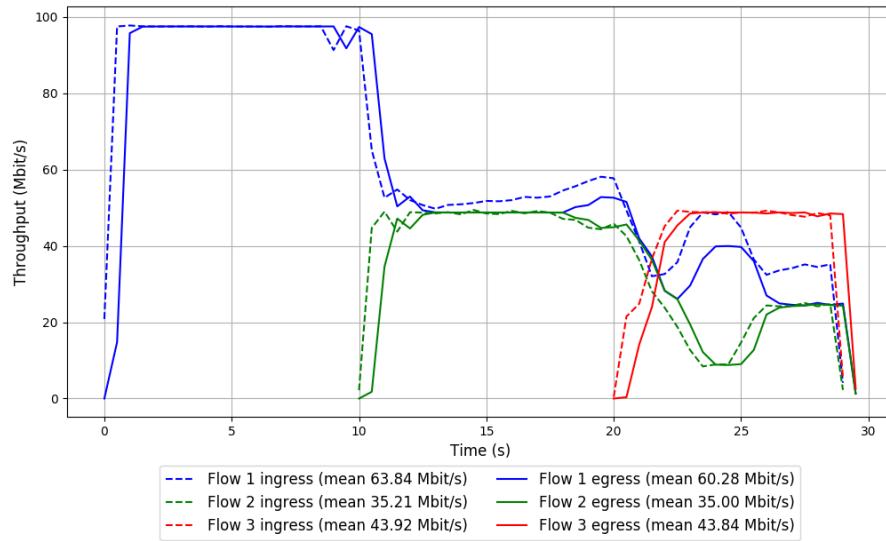


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-02-05 20:09:48
End at: 2019-02-05 20:10:18
Local clock offset: 0.189 ms
Remote clock offset: -3.803 ms

# Below is generated by plot.py at 2019-02-05 20:31:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.02 Mbit/s
95th percentile per-packet one-way delay: 149.054 ms
Loss rate: 4.02%
-- Flow 1:
Average throughput: 60.28 Mbit/s
95th percentile per-packet one-way delay: 154.475 ms
Loss rate: 5.77%
-- Flow 2:
Average throughput: 35.00 Mbit/s
95th percentile per-packet one-way delay: 85.405 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 43.84 Mbit/s
95th percentile per-packet one-way delay: 51.672 ms
Loss rate: 0.92%
```

## Run 5: Report of Indigo-MusesD — Data Link

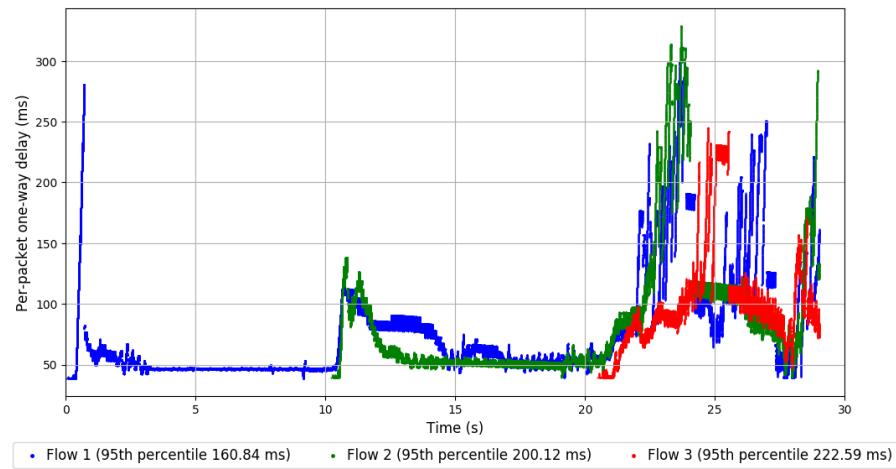
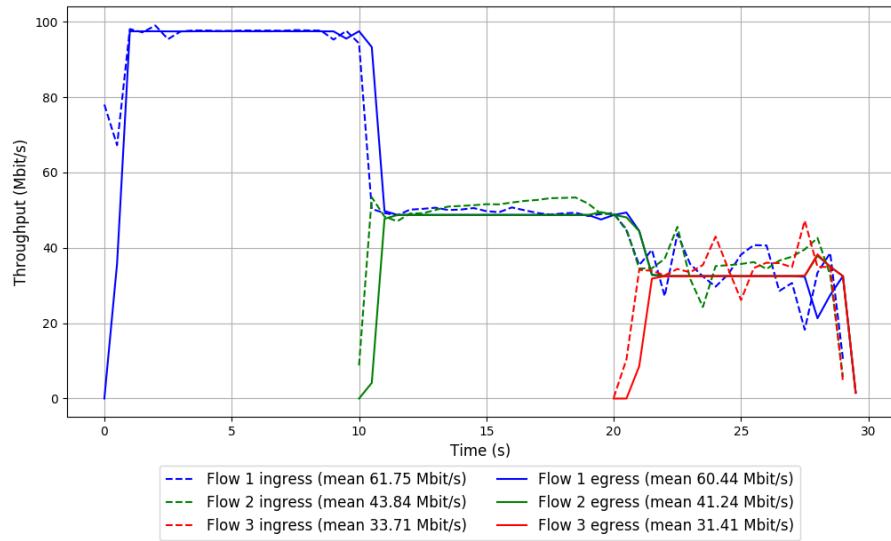


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-02-05 18:35:48
End at: 2019-02-05 18:36:18
Local clock offset: -0.222 ms
Remote clock offset: -8.229 ms

# Below is generated by plot.py at 2019-02-05 20:31:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.48 Mbit/s
95th percentile per-packet one-way delay: 177.618 ms
Loss rate: 3.93%
-- Flow 1:
Average throughput: 60.44 Mbit/s
95th percentile per-packet one-way delay: 160.840 ms
Loss rate: 2.33%
-- Flow 2:
Average throughput: 41.24 Mbit/s
95th percentile per-packet one-way delay: 200.124 ms
Loss rate: 6.14%
-- Flow 3:
Average throughput: 31.41 Mbit/s
95th percentile per-packet one-way delay: 222.589 ms
Loss rate: 7.54%
```

## Run 1: Report of Indigo-MusesT — Data Link

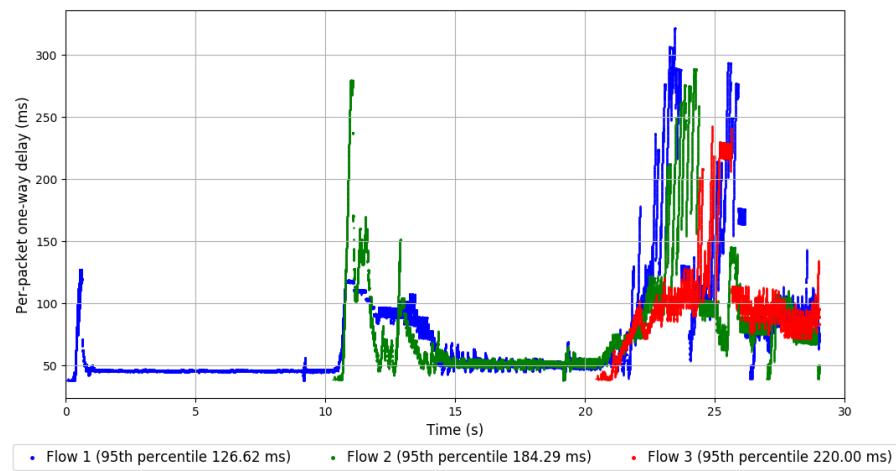
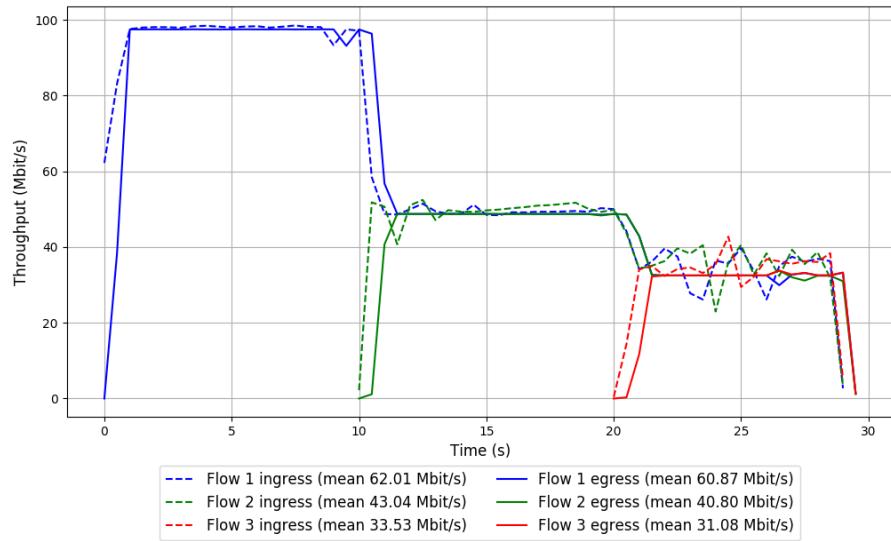


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-02-05 19:01:32
End at: 2019-02-05 19:02:02
Local clock offset: -0.317 ms
Remote clock offset: -6.362 ms

# Below is generated by plot.py at 2019-02-05 20:31:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.49 Mbit/s
95th percentile per-packet one-way delay: 159.849 ms
Loss rate: 3.61%
-- Flow 1:
Average throughput: 60.87 Mbit/s
95th percentile per-packet one-way delay: 126.623 ms
Loss rate: 2.05%
-- Flow 2:
Average throughput: 40.80 Mbit/s
95th percentile per-packet one-way delay: 184.290 ms
Loss rate: 5.51%
-- Flow 3:
Average throughput: 31.08 Mbit/s
95th percentile per-packet one-way delay: 220.002 ms
Loss rate: 7.99%
```

## Run 2: Report of Indigo-MusesT — Data Link

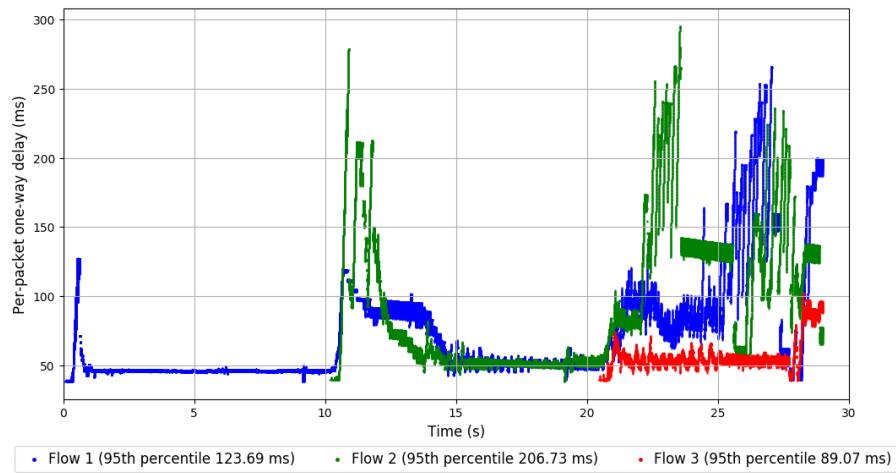
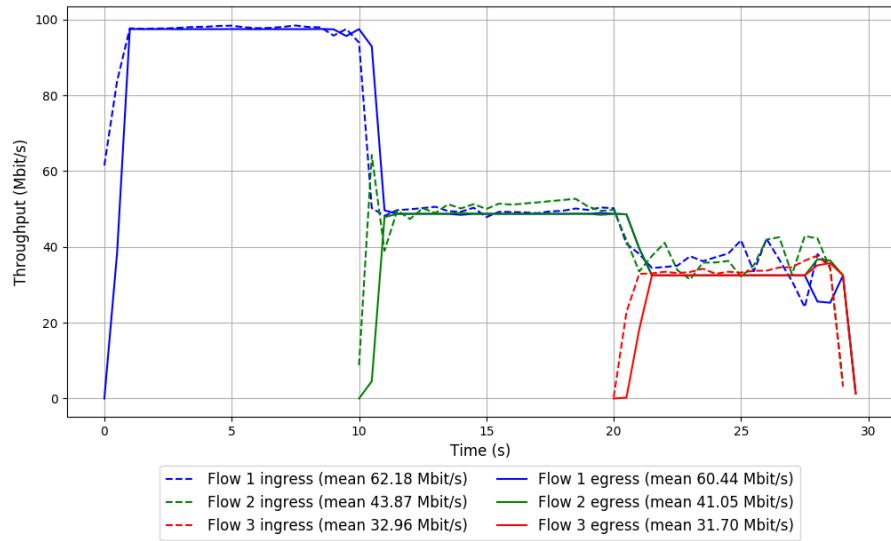


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-02-05 19:27:37
End at: 2019-02-05 19:28:07
Local clock offset: -0.116 ms
Remote clock offset: -5.466 ms

# Below is generated by plot.py at 2019-02-05 20:31:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.54 Mbit/s
95th percentile per-packet one-way delay: 160.389 ms
Loss rate: 4.12%
-- Flow 1:
Average throughput: 60.44 Mbit/s
95th percentile per-packet one-way delay: 123.692 ms
Loss rate: 2.85%
-- Flow 2:
Average throughput: 41.05 Mbit/s
95th percentile per-packet one-way delay: 206.729 ms
Loss rate: 6.74%
-- Flow 3:
Average throughput: 31.70 Mbit/s
95th percentile per-packet one-way delay: 89.073 ms
Loss rate: 4.53%
```

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

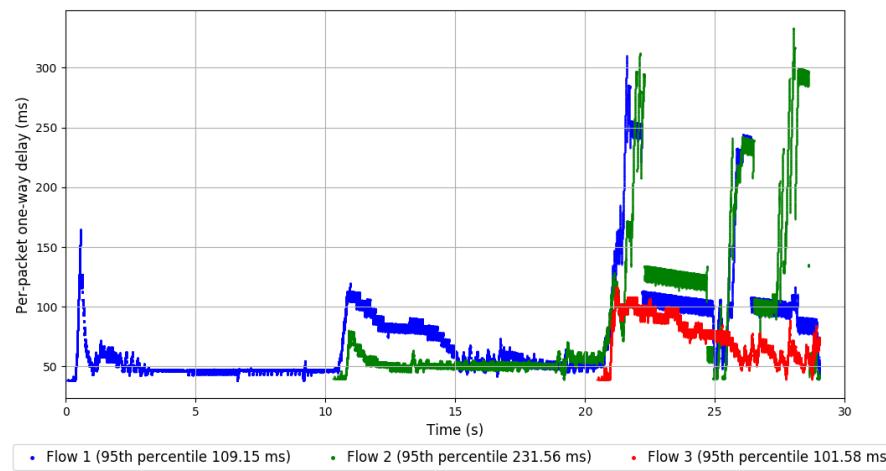
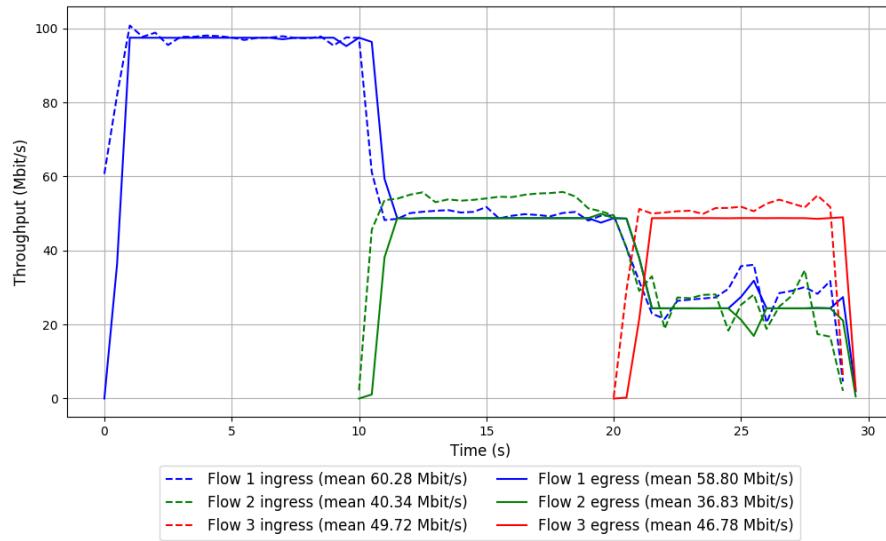


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-02-05 19:53:56
End at: 2019-02-05 19:54:26
Local clock offset: 0.106 ms
Remote clock offset: -4.236 ms

# Below is generated by plot.py at 2019-02-05 20:31:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.48 Mbit/s
95th percentile per-packet one-way delay: 127.833 ms
Loss rate: 4.87%
-- Flow 1:
Average throughput: 58.80 Mbit/s
95th percentile per-packet one-way delay: 109.152 ms
Loss rate: 2.66%
-- Flow 2:
Average throughput: 36.83 Mbit/s
95th percentile per-packet one-way delay: 231.556 ms
Loss rate: 9.00%
-- Flow 3:
Average throughput: 46.78 Mbit/s
95th percentile per-packet one-way delay: 101.581 ms
Loss rate: 6.62%
```

## Run 4: Report of Indigo-MusesT — Data Link

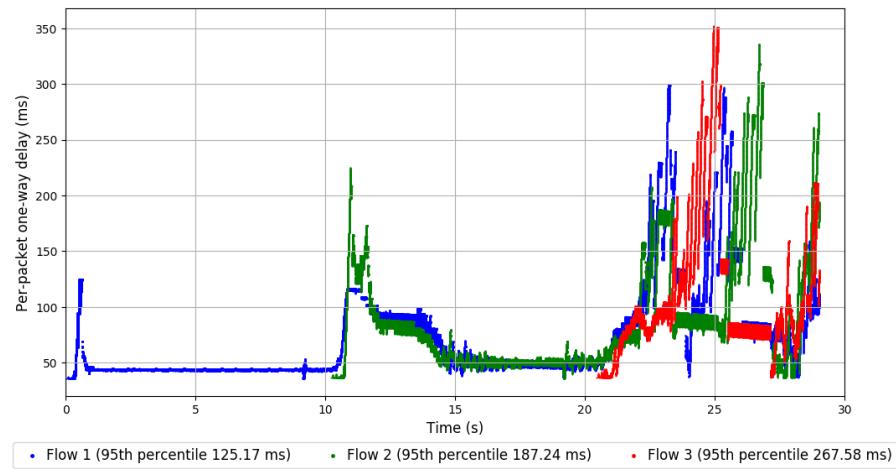
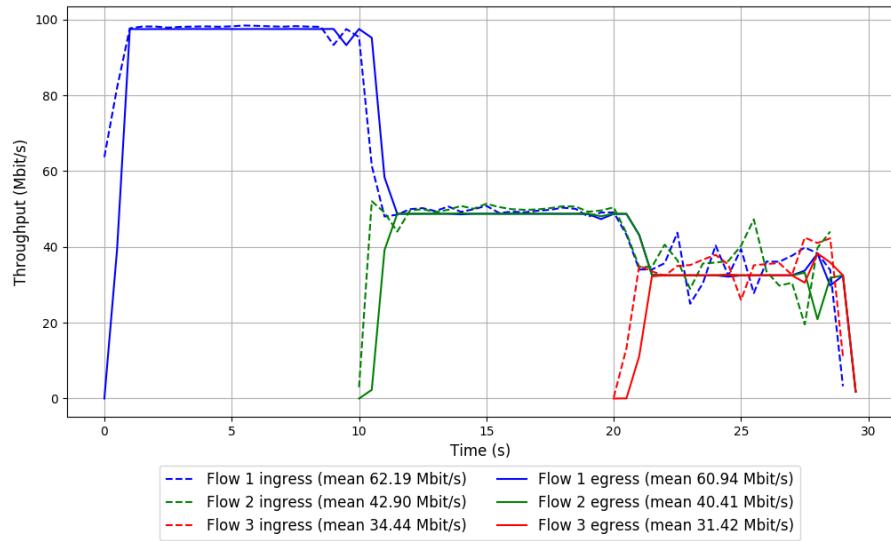


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-02-05 20:19:53
End at: 2019-02-05 20:20:23
Local clock offset: 0.161 ms
Remote clock offset: -1.702 ms

# Below is generated by plot.py at 2019-02-05 20:31:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.47 Mbit/s
95th percentile per-packet one-way delay: 174.351 ms
Loss rate: 3.92%
-- Flow 1:
Average throughput: 60.94 Mbit/s
95th percentile per-packet one-way delay: 125.173 ms
Loss rate: 2.23%
-- Flow 2:
Average throughput: 40.41 Mbit/s
95th percentile per-packet one-way delay: 187.240 ms
Loss rate: 5.65%
-- Flow 3:
Average throughput: 31.42 Mbit/s
95th percentile per-packet one-way delay: 267.577 ms
Loss rate: 9.44%
```

Run 5: Report of Indigo-MusesT — Data Link

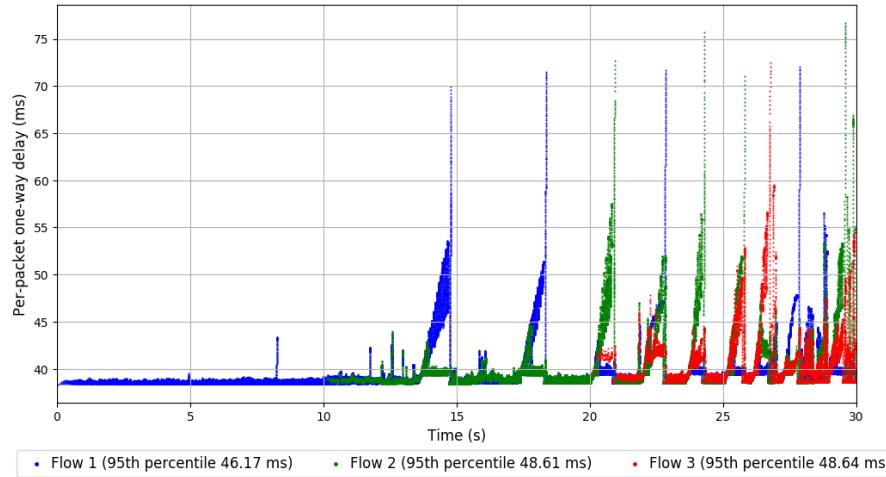
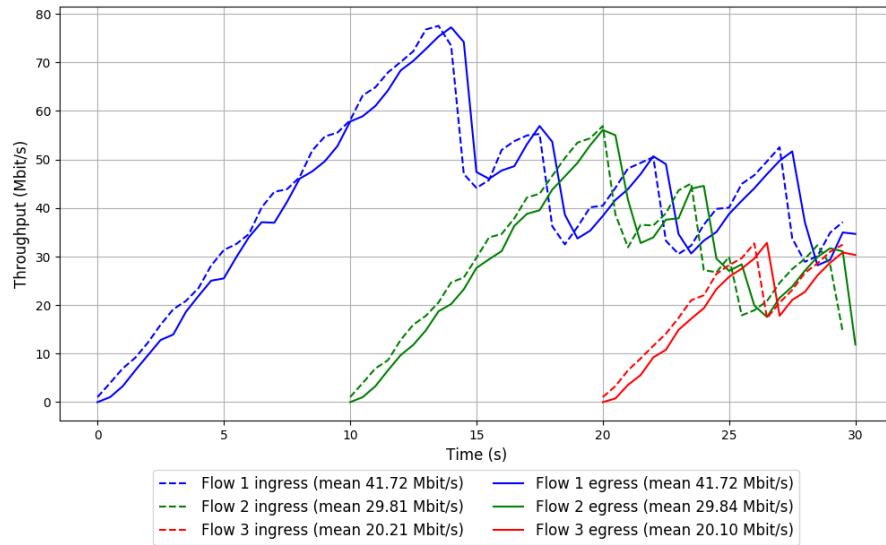


Run 1: Statistics of LEDBAT

```
Start at: 2019-02-05 18:16:00
End at: 2019-02-05 18:16:30
Local clock offset: 3.469 ms
Remote clock offset: -8.859 ms

# Below is generated by plot.py at 2019-02-05 20:31:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 68.21 Mbit/s
95th percentile per-packet one-way delay: 46.940 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 41.72 Mbit/s
95th percentile per-packet one-way delay: 46.168 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 29.84 Mbit/s
95th percentile per-packet one-way delay: 48.612 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 20.10 Mbit/s
95th percentile per-packet one-way delay: 48.636 ms
Loss rate: 1.16%
```

Run 1: Report of LEDBAT — Data Link

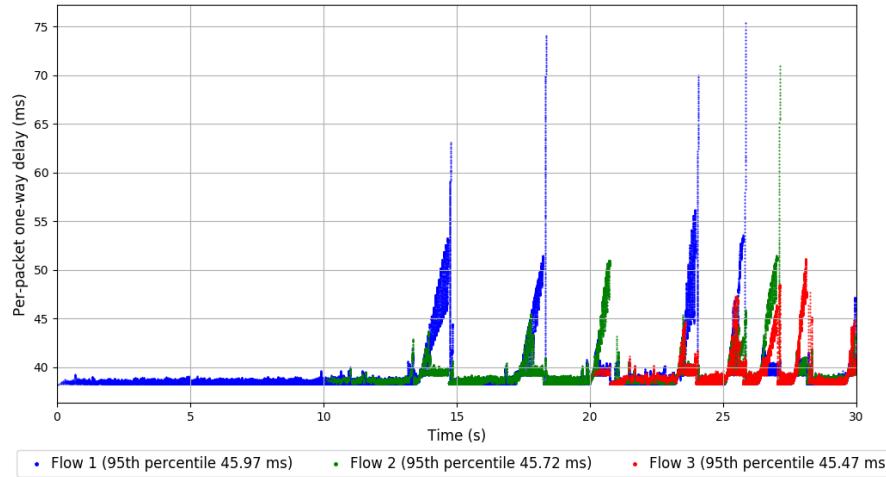
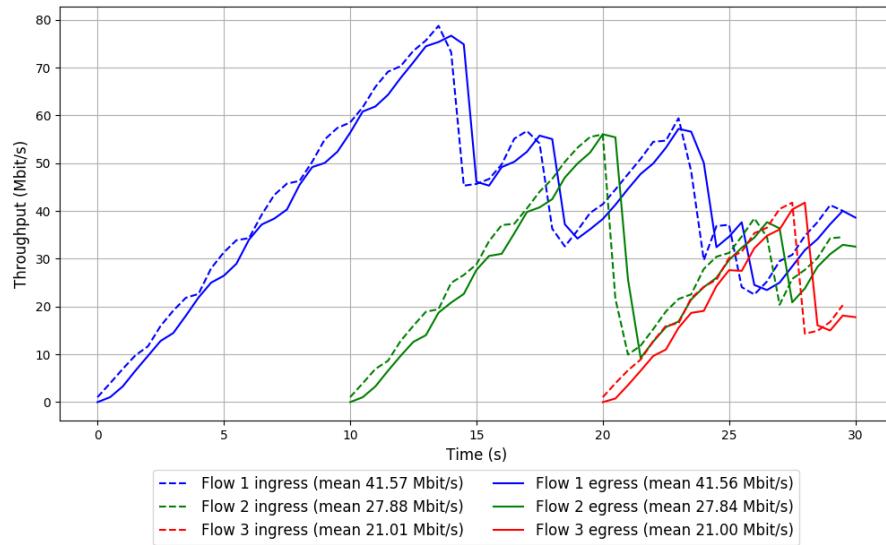


Run 2: Statistics of LEDBAT

```
Start at: 2019-02-05 18:41:54
End at: 2019-02-05 18:42:24
Local clock offset: -0.613 ms
Remote clock offset: -7.61 ms

# Below is generated by plot.py at 2019-02-05 20:32:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 67.05 Mbit/s
95th percentile per-packet one-way delay: 45.890 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 41.56 Mbit/s
95th percentile per-packet one-way delay: 45.972 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 27.84 Mbit/s
95th percentile per-packet one-way delay: 45.718 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 21.00 Mbit/s
95th percentile per-packet one-way delay: 45.465 ms
Loss rate: 0.68%
```

## Run 2: Report of LEDBAT — Data Link

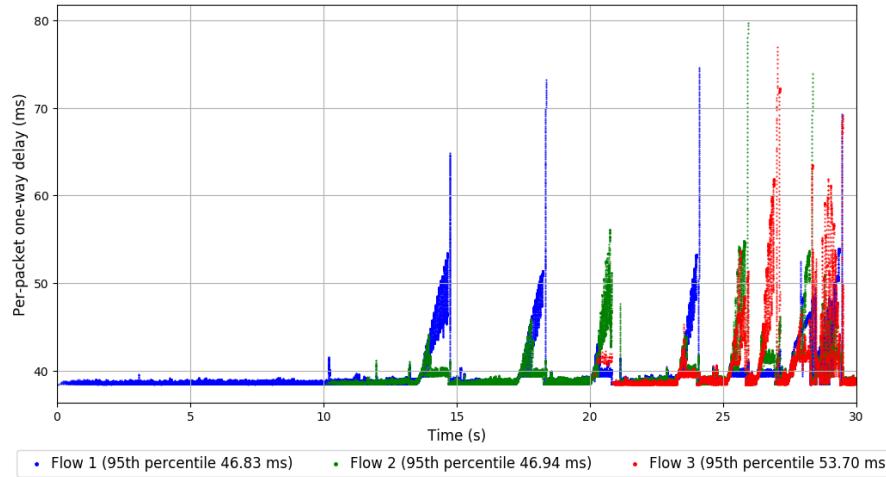
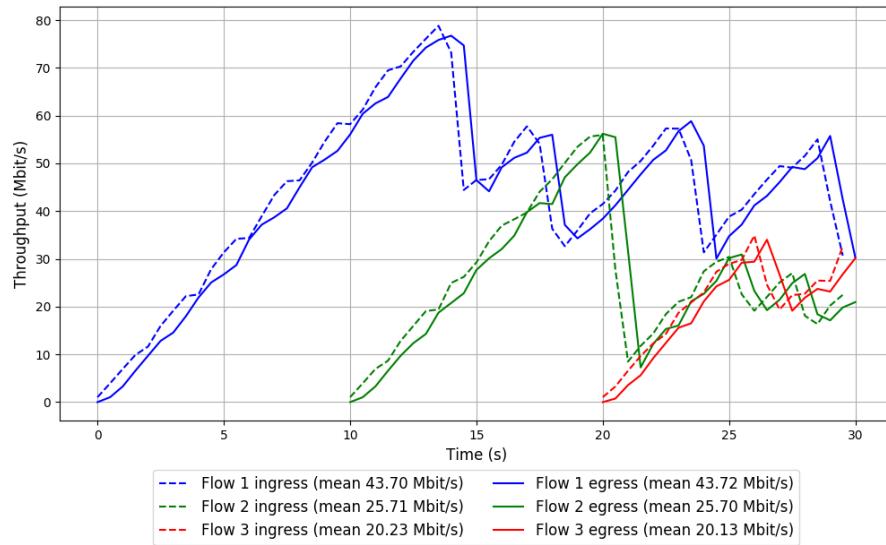


Run 3: Statistics of LEDBAT

```
Start at: 2019-02-05 19:07:34
End at: 2019-02-05 19:08:04
Local clock offset: -0.345 ms
Remote clock offset: -6.444 ms

# Below is generated by plot.py at 2019-02-05 20:32:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 67.48 Mbit/s
95th percentile per-packet one-way delay: 47.666 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 43.72 Mbit/s
95th percentile per-packet one-way delay: 46.832 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 25.70 Mbit/s
95th percentile per-packet one-way delay: 46.936 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 20.13 Mbit/s
95th percentile per-packet one-way delay: 53.702 ms
Loss rate: 1.11%
```

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

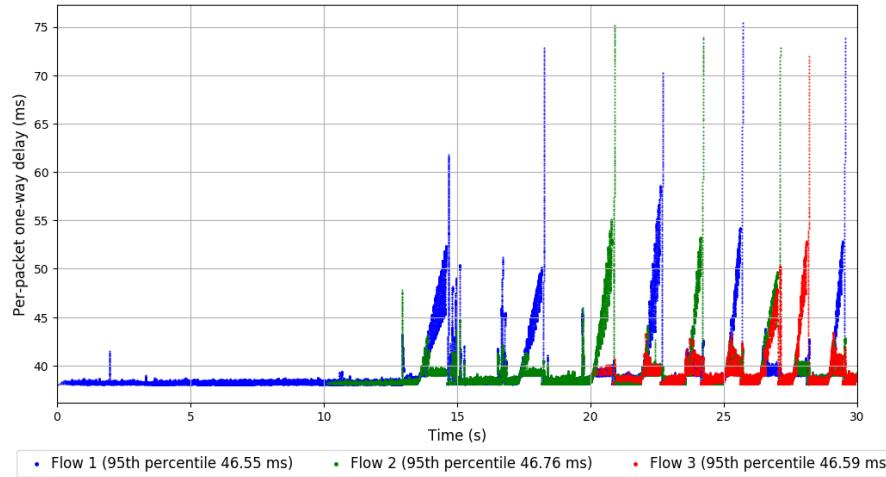
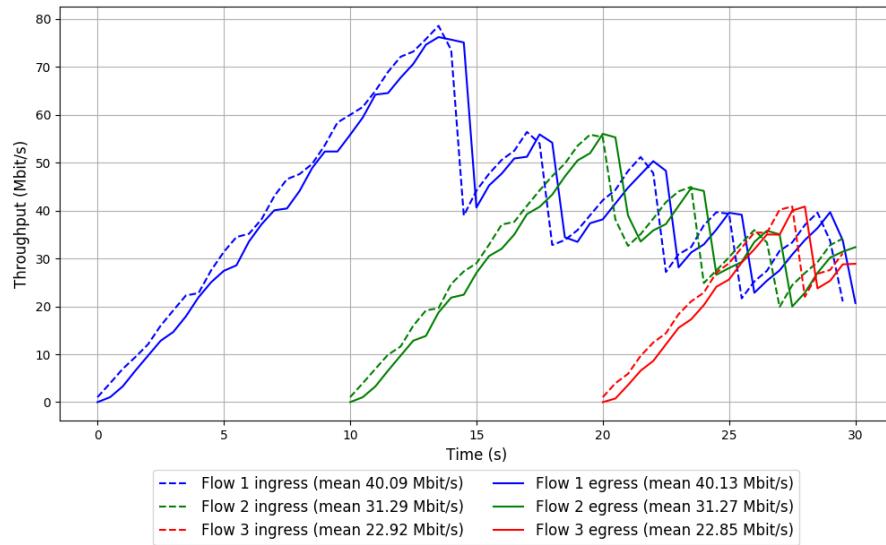


Run 4: Statistics of LEDBAT

```
Start at: 2019-02-05 19:33:42
End at: 2019-02-05 19:34:12
Local clock offset: -0.094 ms
Remote clock offset: -5.006 ms

# Below is generated by plot.py at 2019-02-05 20:32:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 68.49 Mbit/s
95th percentile per-packet one-way delay: 46.617 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 40.13 Mbit/s
95th percentile per-packet one-way delay: 46.551 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 31.27 Mbit/s
95th percentile per-packet one-way delay: 46.758 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 22.85 Mbit/s
95th percentile per-packet one-way delay: 46.595 ms
Loss rate: 0.93%
```

Run 4: Report of LEDBAT — Data Link

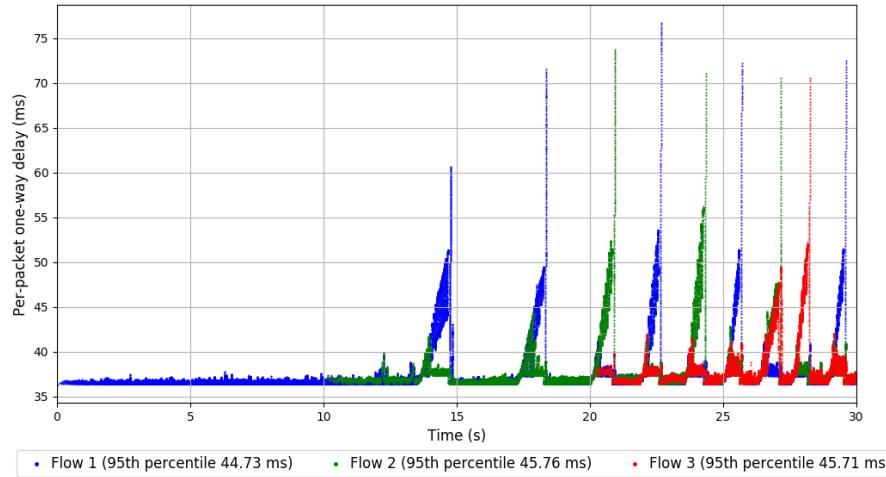
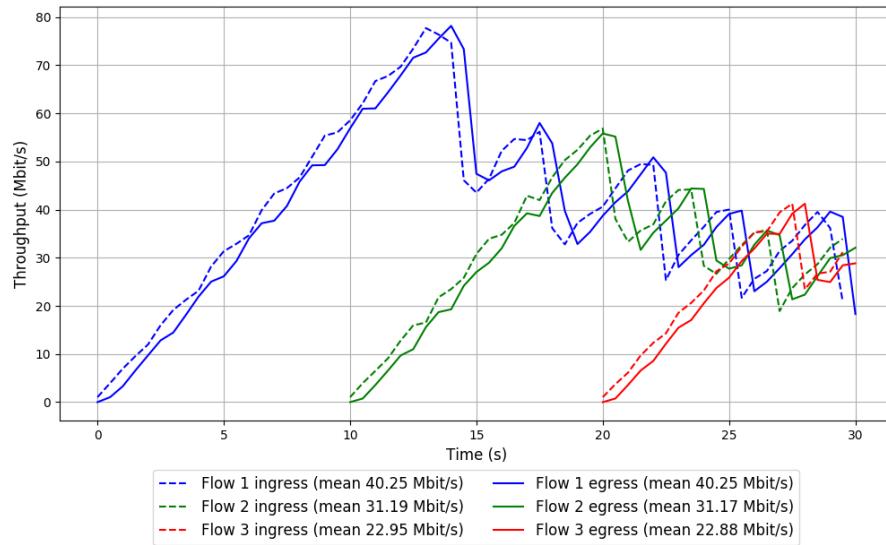


Run 5: Statistics of LEDBAT

```
Start at: 2019-02-05 20:00:02
End at: 2019-02-05 20:00:32
Local clock offset: 0.156 ms
Remote clock offset: -2.633 ms

# Below is generated by plot.py at 2019-02-05 20:32:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 68.57 Mbit/s
95th percentile per-packet one-way delay: 45.113 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 40.25 Mbit/s
95th percentile per-packet one-way delay: 44.732 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 31.17 Mbit/s
95th percentile per-packet one-way delay: 45.759 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 22.88 Mbit/s
95th percentile per-packet one-way delay: 45.706 ms
Loss rate: 0.93%
```

Run 5: Report of LEDBAT — Data Link

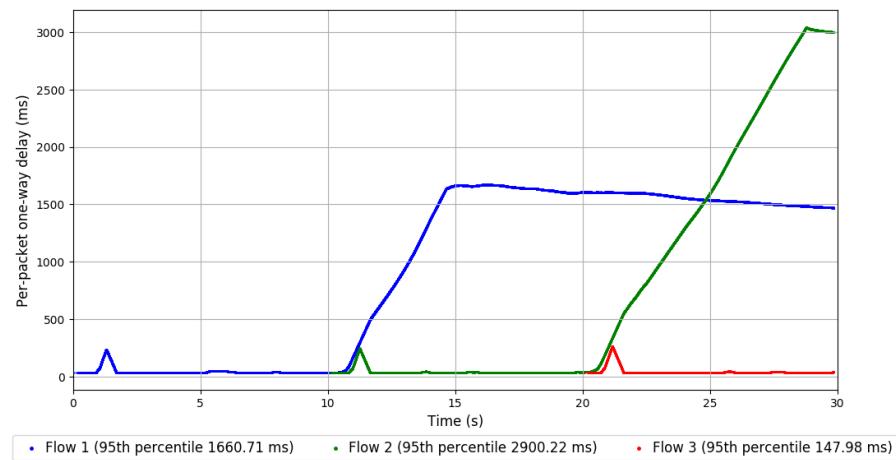
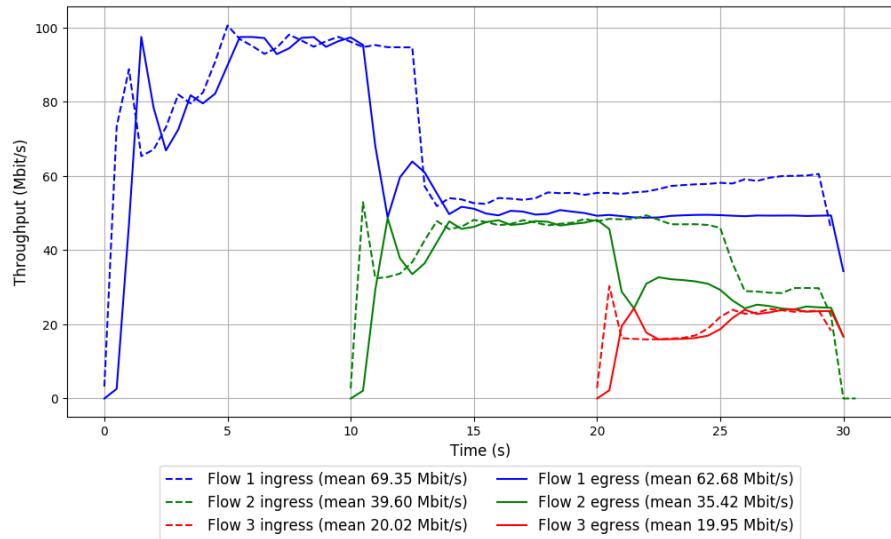


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-02-05 18:12:23
End at: 2019-02-05 18:12:53
Local clock offset: 3.437 ms
Remote clock offset: -6.748 ms

# Below is generated by plot.py at 2019-02-05 20:32:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.76 Mbit/s
95th percentile per-packet one-way delay: 1669.016 ms
Loss rate: 10.43%
-- Flow 1:
Average throughput: 62.68 Mbit/s
95th percentile per-packet one-way delay: 1660.711 ms
Loss rate: 9.81%
-- Flow 2:
Average throughput: 35.42 Mbit/s
95th percentile per-packet one-way delay: 2900.225 ms
Loss rate: 14.26%
-- Flow 3:
Average throughput: 19.95 Mbit/s
95th percentile per-packet one-way delay: 147.976 ms
Loss rate: 0.99%
```

## Run 1: Report of PCC-Allegro — Data Link

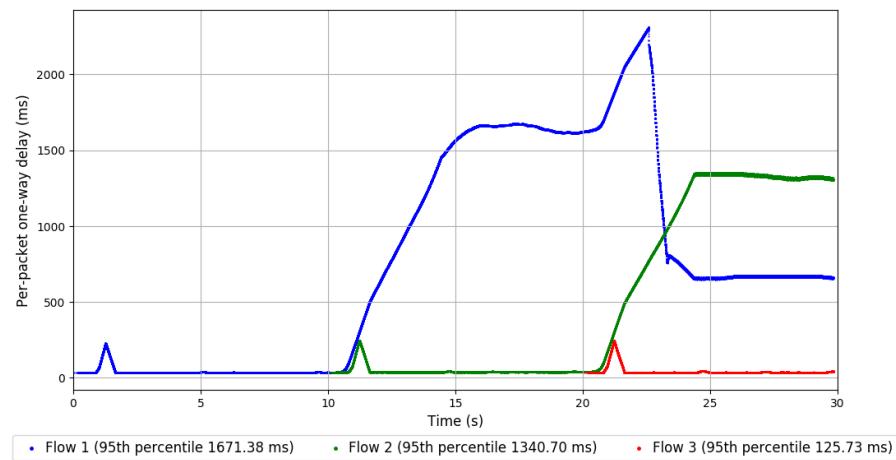
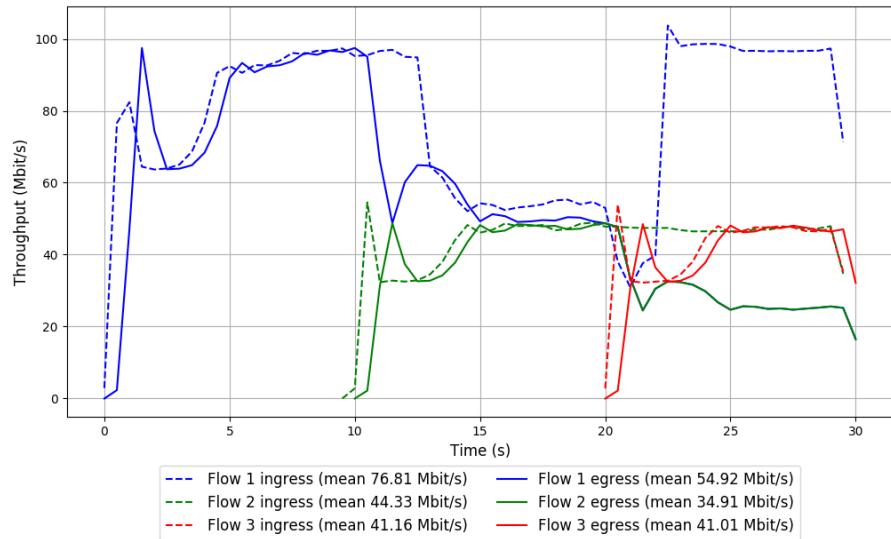


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-02-05 18:38:15
End at: 2019-02-05 18:38:45
Local clock offset: -0.388 ms
Remote clock offset: -5.67 ms

# Below is generated by plot.py at 2019-02-05 20:32:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.58 Mbit/s
95th percentile per-packet one-way delay: 1661.987 ms
Loss rate: 23.76%
-- Flow 1:
Average throughput: 54.92 Mbit/s
95th percentile per-packet one-way delay: 1671.377 ms
Loss rate: 28.65%
-- Flow 2:
Average throughput: 34.91 Mbit/s
95th percentile per-packet one-way delay: 1340.701 ms
Loss rate: 21.49%
-- Flow 3:
Average throughput: 41.01 Mbit/s
95th percentile per-packet one-way delay: 125.735 ms
Loss rate: 1.01%
```

## Run 2: Report of PCC-Allegro — Data Link

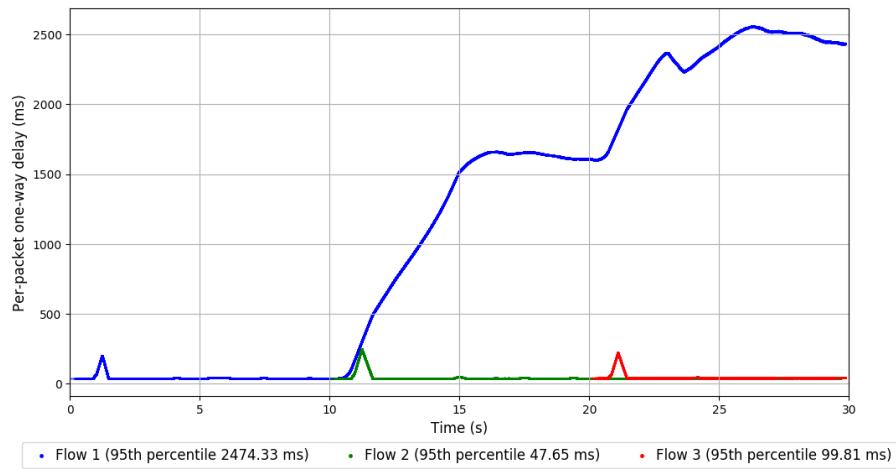
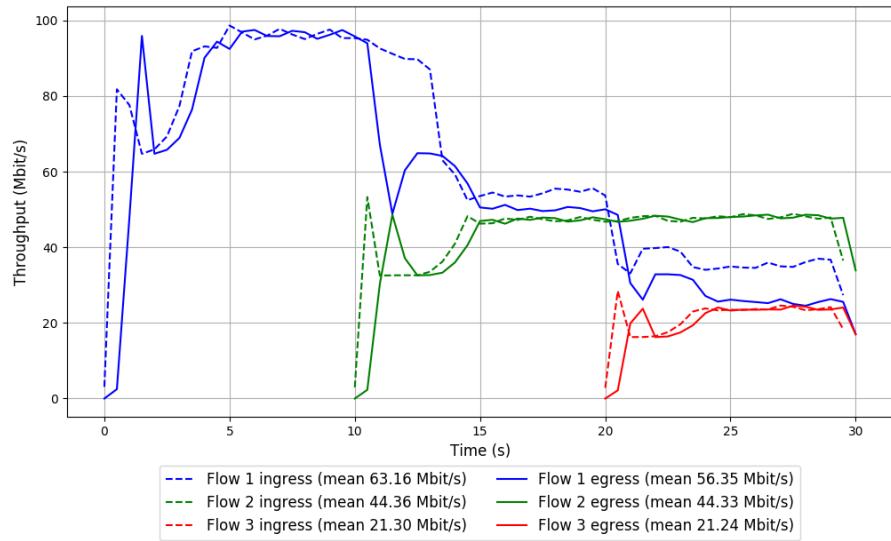


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-02-05 19:03:59
End at: 2019-02-05 19:04:29
Local clock offset: -0.325 ms
Remote clock offset: -6.745 ms

# Below is generated by plot.py at 2019-02-05 20:32:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.78 Mbit/s
95th percentile per-packet one-way delay: 2360.492 ms
Loss rate: 7.13%
-- Flow 1:
Average throughput: 56.35 Mbit/s
95th percentile per-packet one-way delay: 2474.333 ms
Loss rate: 10.96%
-- Flow 2:
Average throughput: 44.33 Mbit/s
95th percentile per-packet one-way delay: 47.645 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 21.24 Mbit/s
95th percentile per-packet one-way delay: 99.809 ms
Loss rate: 0.93%
```

### Run 3: Report of PCC-Allegro — Data Link

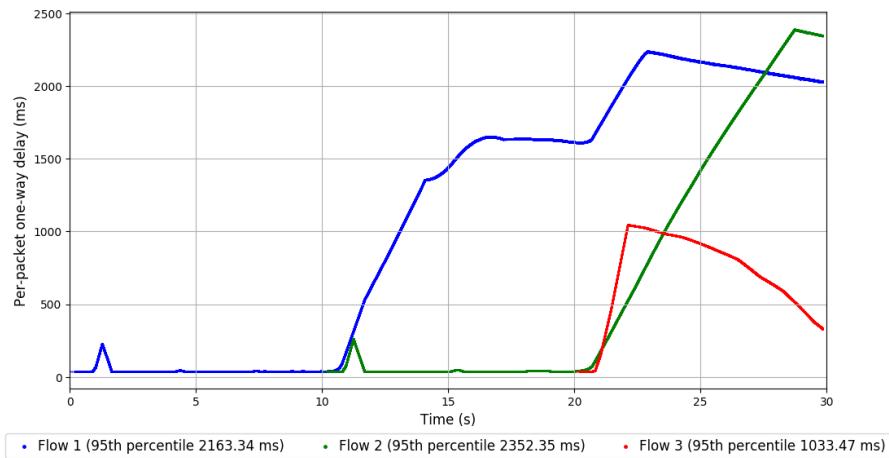
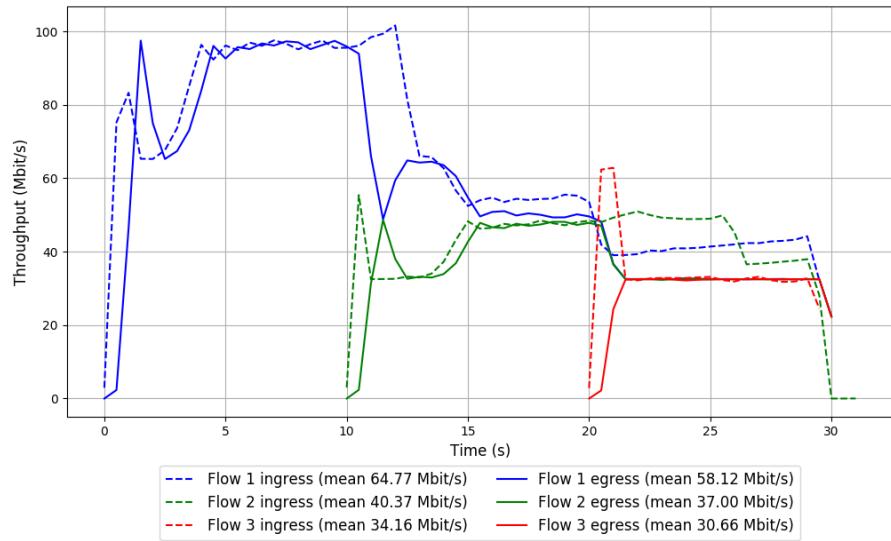


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-02-05 19:30:04
End at: 2019-02-05 19:30:34
Local clock offset: -0.085 ms
Remote clock offset: -5.187 ms

# Below is generated by plot.py at 2019-02-05 20:33:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.78 Mbit/s
95th percentile per-packet one-way delay: 2173.511 ms
Loss rate: 11.40%
-- Flow 1:
Average throughput: 58.12 Mbit/s
95th percentile per-packet one-way delay: 2163.337 ms
Loss rate: 10.45%
-- Flow 2:
Average throughput: 37.00 Mbit/s
95th percentile per-packet one-way delay: 2352.350 ms
Loss rate: 13.79%
-- Flow 3:
Average throughput: 30.66 Mbit/s
95th percentile per-packet one-way delay: 1033.466 ms
Loss rate: 10.82%
```

## Run 4: Report of PCC-Allegro — Data Link

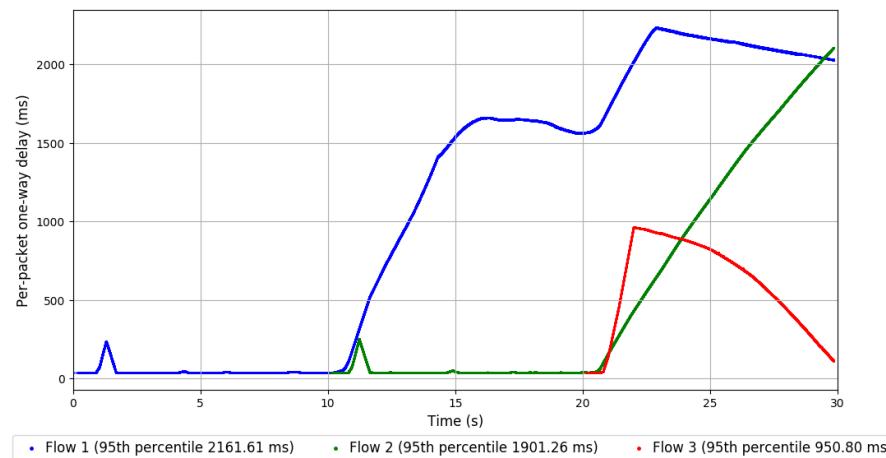
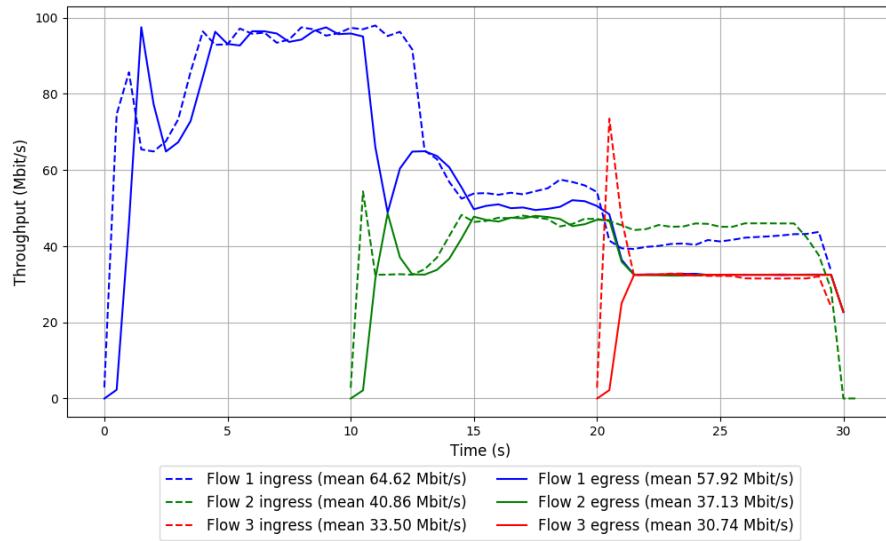


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-02-05 19:56:25
End at: 2019-02-05 19:56:55
Local clock offset: 0.133 ms
Remote clock offset: -4.782 ms

# Below is generated by plot.py at 2019-02-05 20:33:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.70 Mbit/s
95th percentile per-packet one-way delay: 2119.744 ms
Loss rate: 11.21%
-- Flow 1:
Average throughput: 57.92 Mbit/s
95th percentile per-packet one-way delay: 2161.615 ms
Loss rate: 10.55%
-- Flow 2:
Average throughput: 37.13 Mbit/s
95th percentile per-packet one-way delay: 1901.259 ms
Loss rate: 13.61%
-- Flow 3:
Average throughput: 30.74 Mbit/s
95th percentile per-packet one-way delay: 950.798 ms
Loss rate: 8.83%
```

## Run 5: Report of PCC-Allegro — Data Link

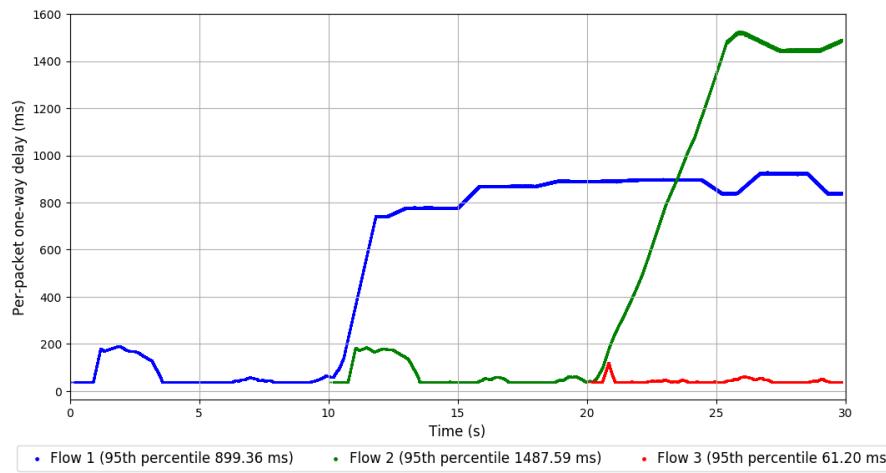
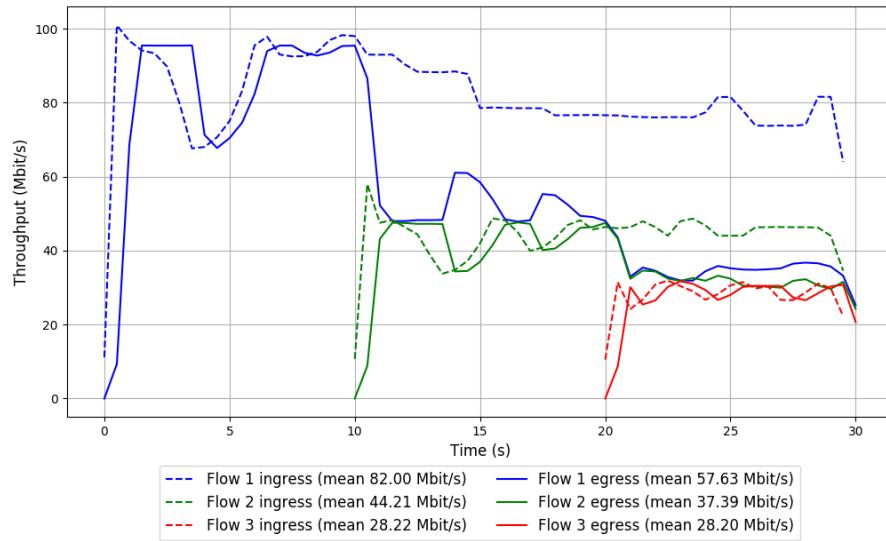


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-02-05 18:30:46
End at: 2019-02-05 18:31:16
Local clock offset: 0.222 ms
Remote clock offset: -8.305 ms

# Below is generated by plot.py at 2019-02-05 20:34:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.75 Mbit/s
95th percentile per-packet one-way delay: 1442.982 ms
Loss rate: 24.17%
-- Flow 1:
Average throughput: 57.63 Mbit/s
95th percentile per-packet one-way delay: 899.355 ms
Loss rate: 29.87%
-- Flow 2:
Average throughput: 37.39 Mbit/s
95th percentile per-packet one-way delay: 1487.592 ms
Loss rate: 15.70%
-- Flow 3:
Average throughput: 28.20 Mbit/s
95th percentile per-packet one-way delay: 61.203 ms
Loss rate: 0.72%
```

Run 1: Report of PCC-Expr — Data Link

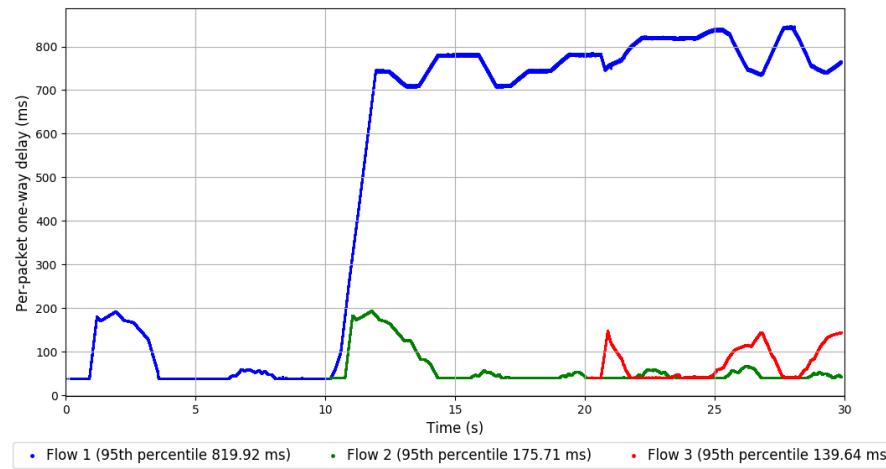
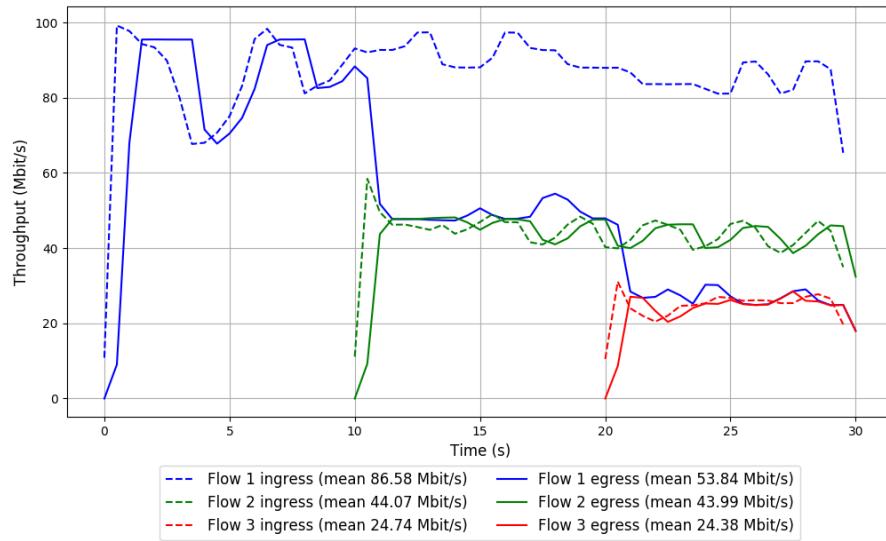


Run 2: Statistics of PCC-Expr

```
Start at: 2019-02-05 18:56:31
End at: 2019-02-05 18:57:01
Local clock offset: -0.335 ms
Remote clock offset: -7.204 ms

# Below is generated by plot.py at 2019-02-05 20:34:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.09 Mbit/s
95th percentile per-packet one-way delay: 790.124 ms
Loss rate: 26.74%
-- Flow 1:
Average throughput: 53.84 Mbit/s
95th percentile per-packet one-way delay: 819.917 ms
Loss rate: 37.95%
-- Flow 2:
Average throughput: 43.99 Mbit/s
95th percentile per-packet one-way delay: 175.705 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 24.38 Mbit/s
95th percentile per-packet one-way delay: 139.642 ms
Loss rate: 2.14%
```

Run 2: Report of PCC-Expr — Data Link

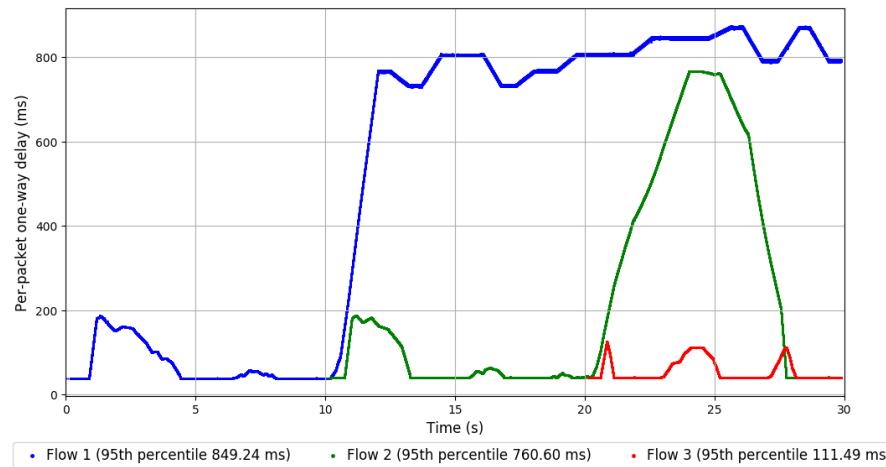
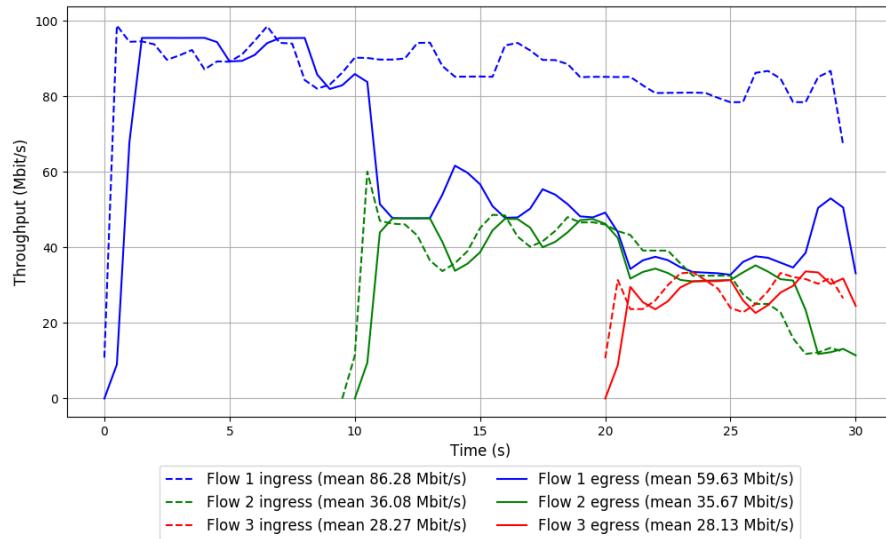


Run 3: Statistics of PCC-Expr

```
Start at: 2019-02-05 19:22:13
End at: 2019-02-05 19:22:43
Local clock offset: -0.214 ms
Remote clock offset: -5.951 ms

# Below is generated by plot.py at 2019-02-05 20:34:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.60 Mbit/s
95th percentile per-packet one-way delay: 845.311 ms
Loss rate: 22.76%
-- Flow 1:
Average throughput: 59.63 Mbit/s
95th percentile per-packet one-way delay: 849.235 ms
Loss rate: 31.04%
-- Flow 2:
Average throughput: 35.67 Mbit/s
95th percentile per-packet one-way delay: 760.598 ms
Loss rate: 1.45%
-- Flow 3:
Average throughput: 28.13 Mbit/s
95th percentile per-packet one-way delay: 111.493 ms
Loss rate: 1.15%
```

### Run 3: Report of PCC-Expr — Data Link

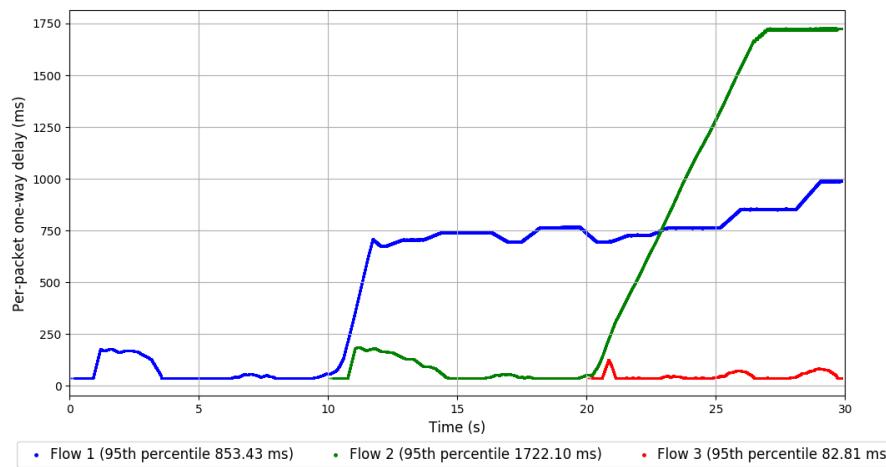
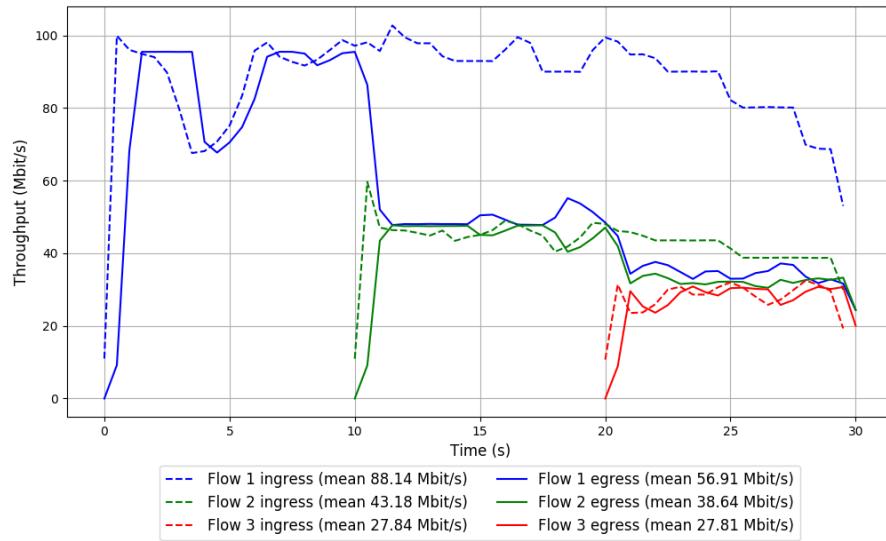


Run 4: Statistics of PCC-Expr

```
Start at: 2019-02-05 19:48:39
End at: 2019-02-05 19:49:09
Local clock offset: -0.065 ms
Remote clock offset: -4.609 ms

# Below is generated by plot.py at 2019-02-05 20:35:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.75 Mbit/s
95th percentile per-packet one-way delay: 1432.508 ms
Loss rate: 27.38%
-- Flow 1:
Average throughput: 56.91 Mbit/s
95th percentile per-packet one-way delay: 853.426 ms
Loss rate: 35.56%
-- Flow 2:
Average throughput: 38.64 Mbit/s
95th percentile per-packet one-way delay: 1722.103 ms
Loss rate: 10.80%
-- Flow 3:
Average throughput: 27.81 Mbit/s
95th percentile per-packet one-way delay: 82.815 ms
Loss rate: 0.76%
```

Run 4: Report of PCC-Expr — Data Link

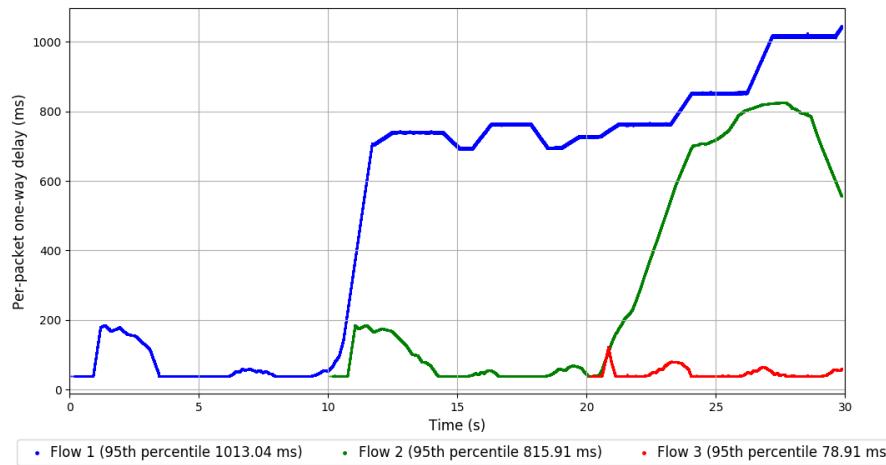
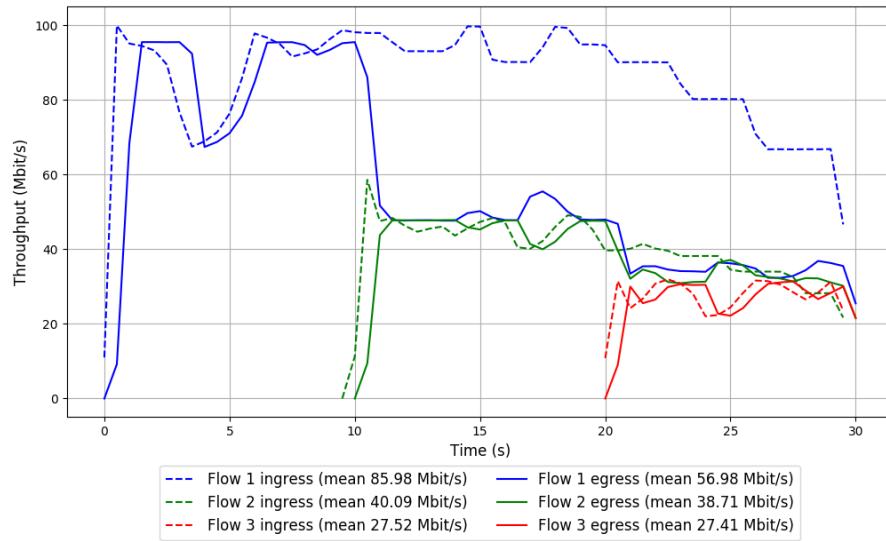


Run 5: Statistics of PCC-Expr

```
Start at: 2019-02-05 20:14:43
End at: 2019-02-05 20:15:13
Local clock offset: 0.128 ms
Remote clock offset: -3.874 ms

# Below is generated by plot.py at 2019-02-05 20:35:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.73 Mbit/s
95th percentile per-packet one-way delay: 853.502 ms
Loss rate: 24.82%
-- Flow 1:
Average throughput: 56.98 Mbit/s
95th percentile per-packet one-way delay: 1013.044 ms
Loss rate: 33.87%
-- Flow 2:
Average throughput: 38.71 Mbit/s
95th percentile per-packet one-way delay: 815.907 ms
Loss rate: 3.76%
-- Flow 3:
Average throughput: 27.41 Mbit/s
95th percentile per-packet one-way delay: 78.905 ms
Loss rate: 1.05%
```

## Run 5: Report of PCC-Expr — Data Link

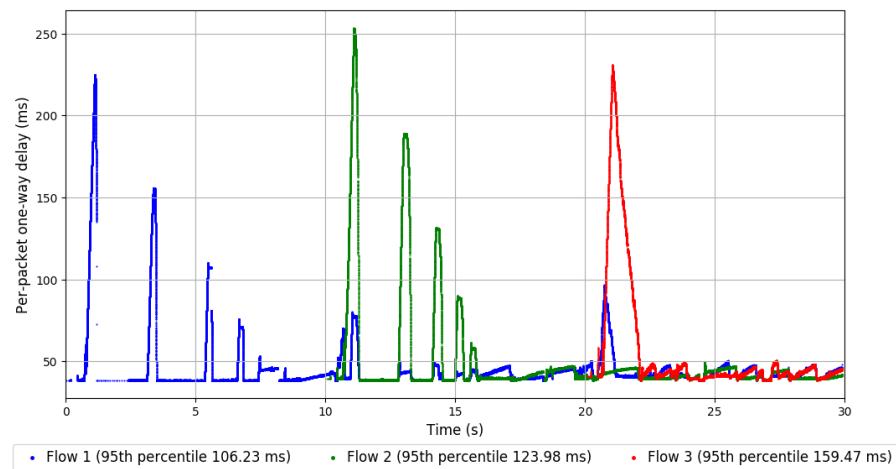
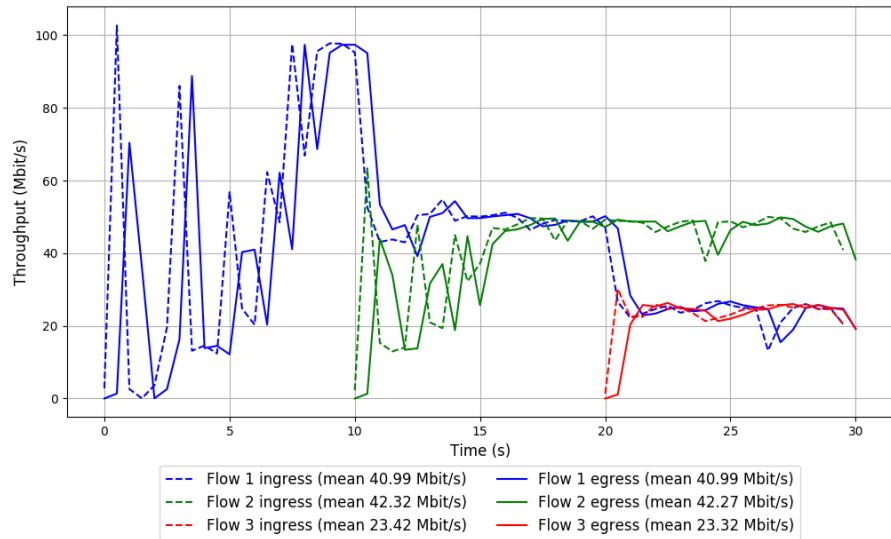


```
Run 1: Statistics of QUIC Cubic

Start at: 2019-02-05 18:19:38
End at: 2019-02-05 18:20:08
Local clock offset: 2.153 ms
Remote clock offset: -8.91 ms

# Below is generated by plot.py at 2019-02-05 20:35:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.77 Mbit/s
95th percentile per-packet one-way delay: 114.182 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 40.99 Mbit/s
95th percentile per-packet one-way delay: 106.233 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 42.27 Mbit/s
95th percentile per-packet one-way delay: 123.985 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 23.32 Mbit/s
95th percentile per-packet one-way delay: 159.466 ms
Loss rate: 1.06%
```

Run 1: Report of QUIC Cubic — Data Link

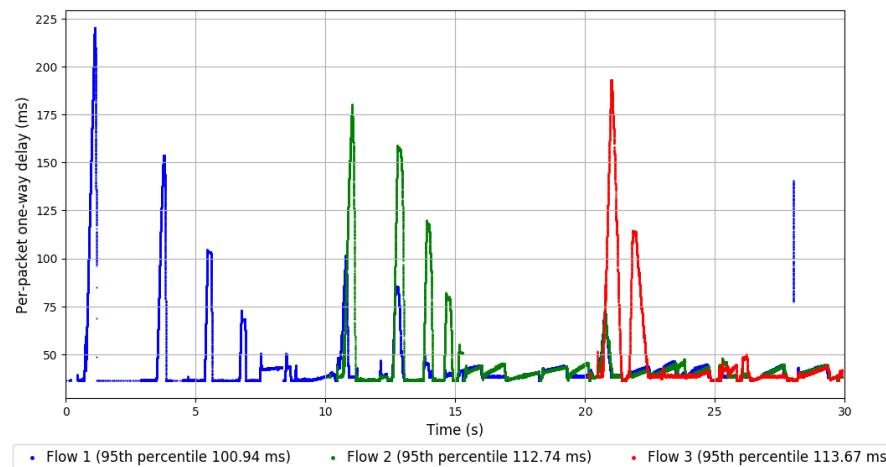
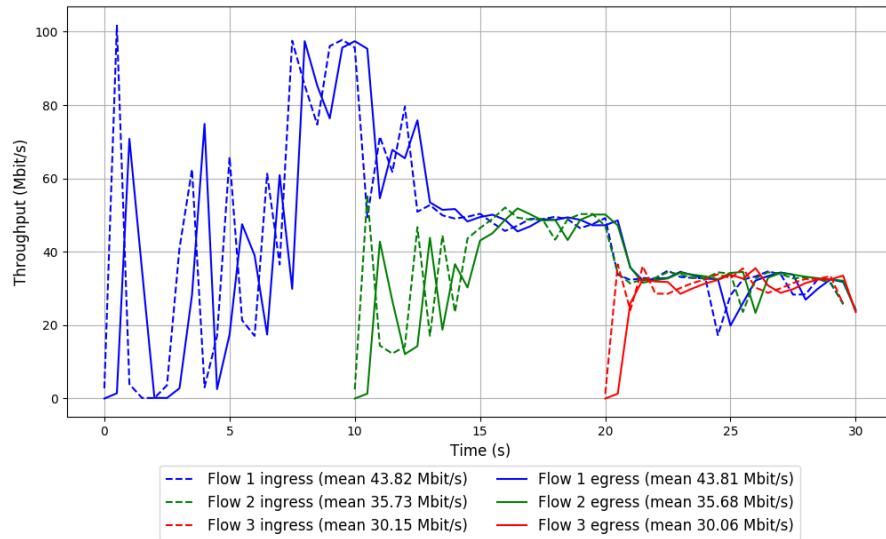


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-02-05 18:45:33
End at: 2019-02-05 18:46:03
Local clock offset: -0.797 ms
Remote clock offset: -5.678 ms

# Below is generated by plot.py at 2019-02-05 20:35:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.41 Mbit/s
95th percentile per-packet one-way delay: 103.307 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 43.81 Mbit/s
95th percentile per-packet one-way delay: 100.944 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 35.68 Mbit/s
95th percentile per-packet one-way delay: 112.743 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 30.06 Mbit/s
95th percentile per-packet one-way delay: 113.666 ms
Loss rate: 0.98%
```

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

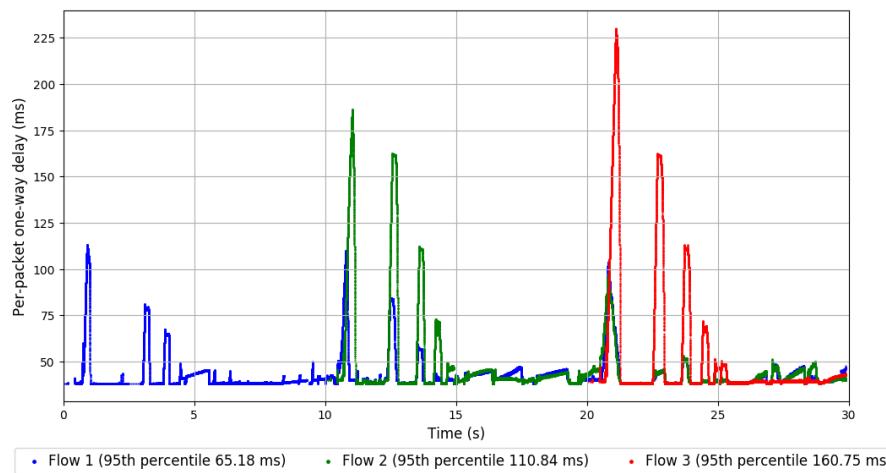
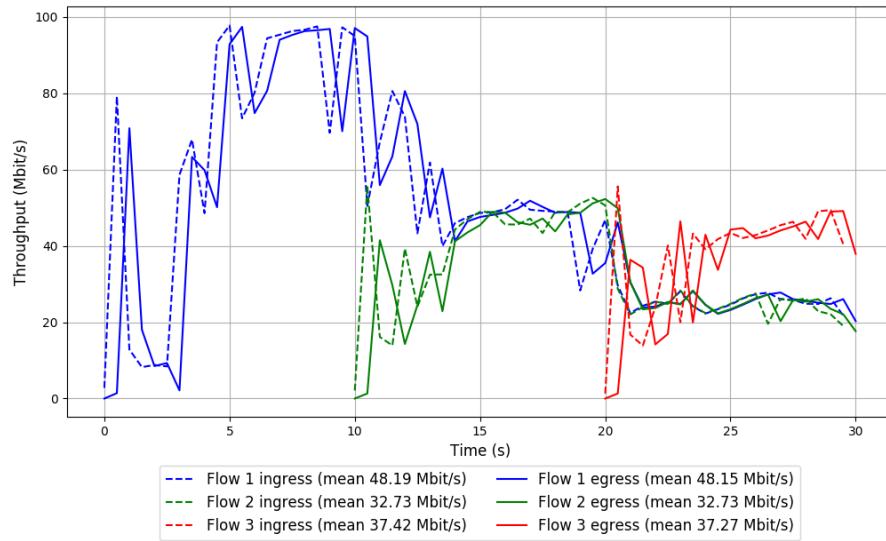


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-02-05 19:11:12
End at: 2019-02-05 19:11:42
Local clock offset: -0.392 ms
Remote clock offset: -5.975 ms

# Below is generated by plot.py at 2019-02-05 20:35:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.17 Mbit/s
95th percentile per-packet one-way delay: 87.553 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 48.15 Mbit/s
95th percentile per-packet one-way delay: 65.183 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 32.73 Mbit/s
95th percentile per-packet one-way delay: 110.839 ms
Loss rate: 0.32%
-- Flow 3:
Average throughput: 37.27 Mbit/s
95th percentile per-packet one-way delay: 160.751 ms
Loss rate: 1.03%
```

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

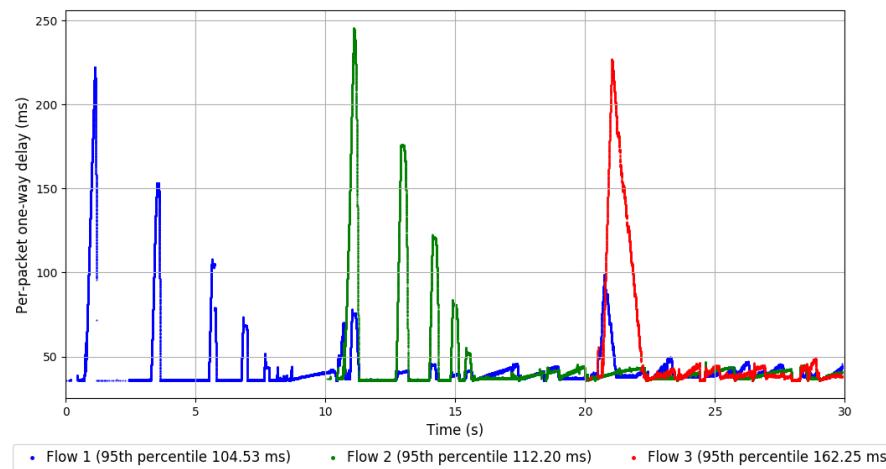
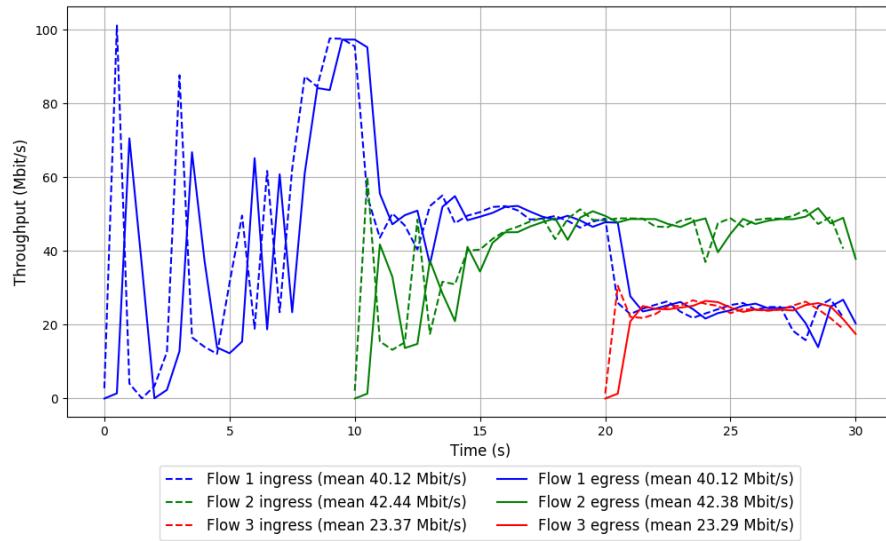


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-02-05 19:37:24
End at: 2019-02-05 19:37:54
Local clock offset: -0.089 ms
Remote clock offset: -2.747 ms

# Below is generated by plot.py at 2019-02-05 20:35:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.95 Mbit/s
95th percentile per-packet one-way delay: 110.163 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 40.12 Mbit/s
95th percentile per-packet one-way delay: 104.534 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 42.38 Mbit/s
95th percentile per-packet one-way delay: 112.205 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 23.29 Mbit/s
95th percentile per-packet one-way delay: 162.253 ms
Loss rate: 0.98%
```

Run 4: Report of QUIC Cubic — Data Link

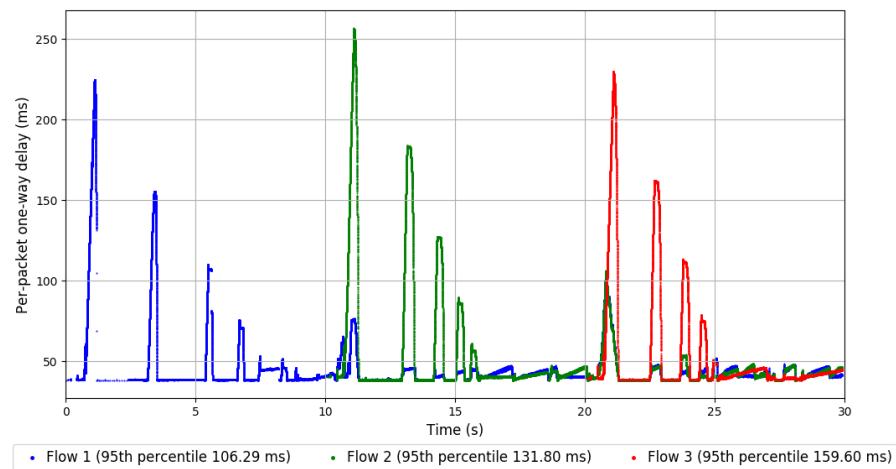
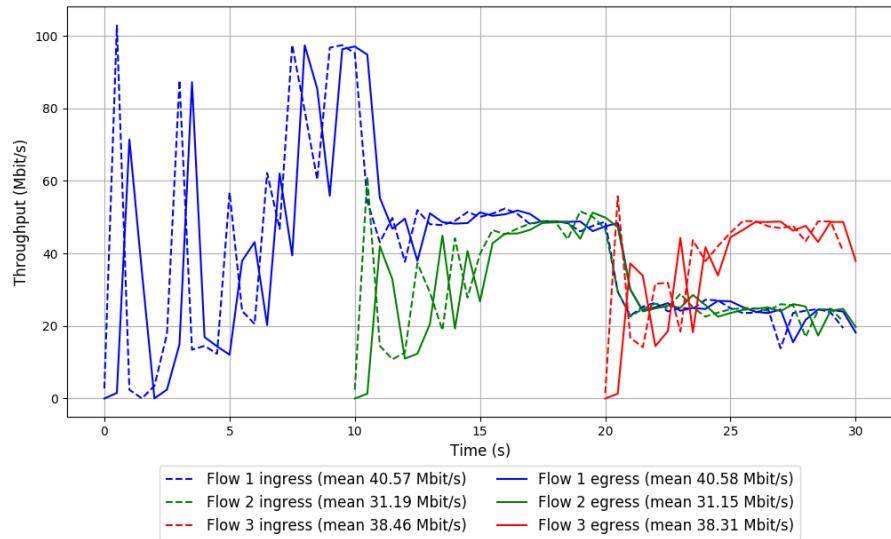


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-02-05 20:03:43
End at: 2019-02-05 20:04:13
Local clock offset: 0.162 ms
Remote clock offset: -4.22 ms

# Below is generated by plot.py at 2019-02-05 20:35:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 73.90 Mbit/s
95th percentile per-packet one-way delay: 124.801 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 40.58 Mbit/s
95th percentile per-packet one-way delay: 106.293 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 31.15 Mbit/s
95th percentile per-packet one-way delay: 131.798 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 38.31 Mbit/s
95th percentile per-packet one-way delay: 159.596 ms
Loss rate: 1.03%
```

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

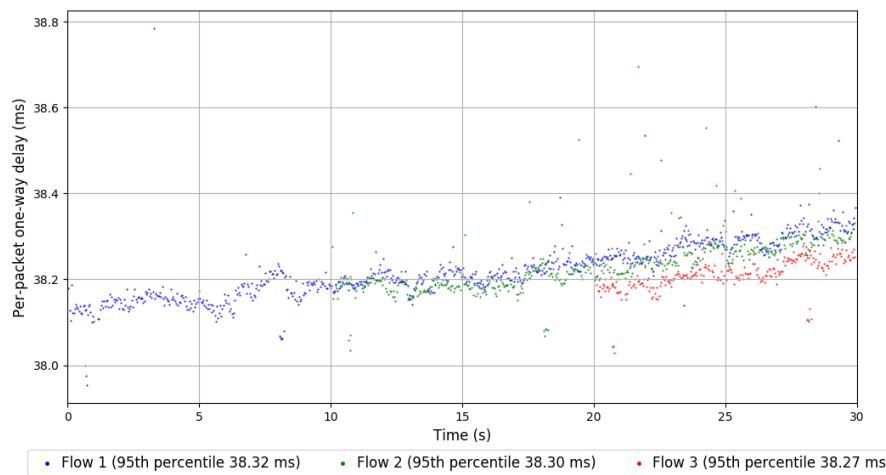
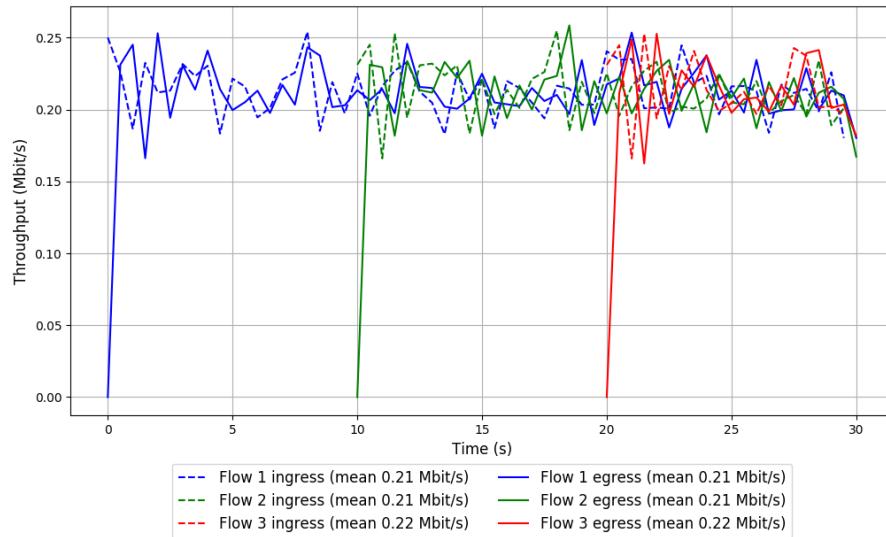


Run 1: Statistics of SCReAM

```
Start at: 2019-02-05 18:17:13
End at: 2019-02-05 18:17:43
Local clock offset: 3.034 ms
Remote clock offset: -8.477 ms

# Below is generated by plot.py at 2019-02-05 20:35:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 38.314 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 38.323 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 38.305 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 38.270 ms
Loss rate: 0.71%
```

## Run 1: Report of SCReAM — Data Link

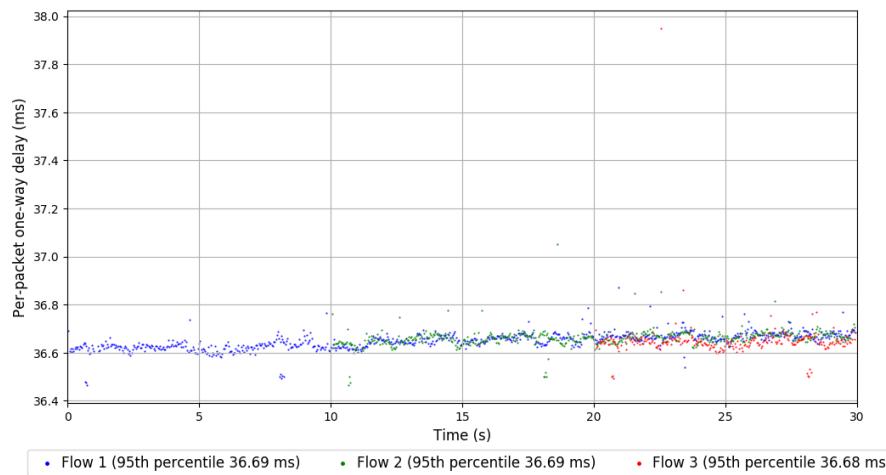
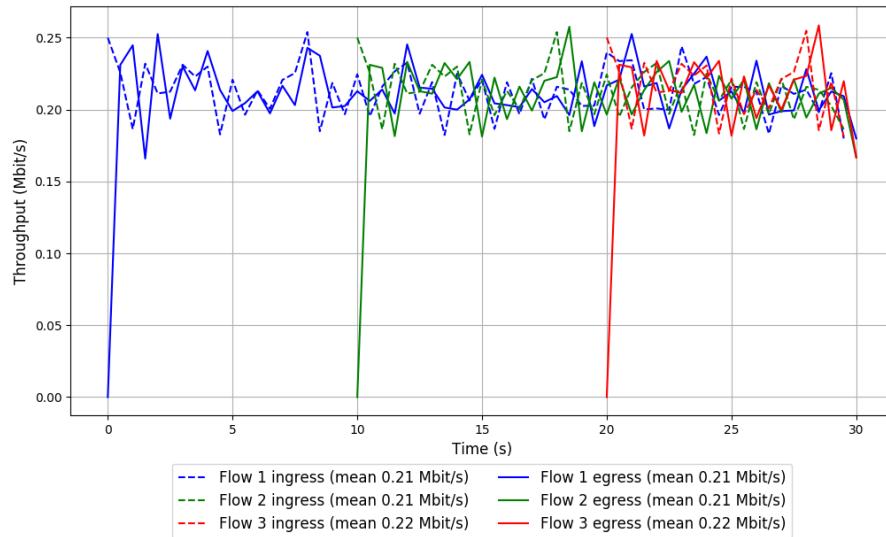


Run 2: Statistics of SCReAM

```
Start at: 2019-02-05 18:43:08
End at: 2019-02-05 18:43:38
Local clock offset: -0.682 ms
Remote clock offset: -5.821 ms

# Below is generated by plot.py at 2019-02-05 20:35:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 36.693 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 36.693 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 36.694 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 36.684 ms
Loss rate: 0.71%
```

## Run 2: Report of SCReAM — Data Link

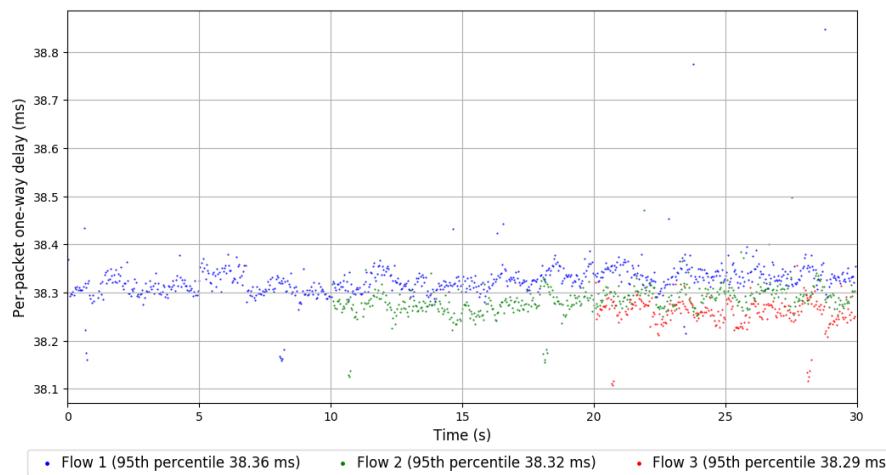
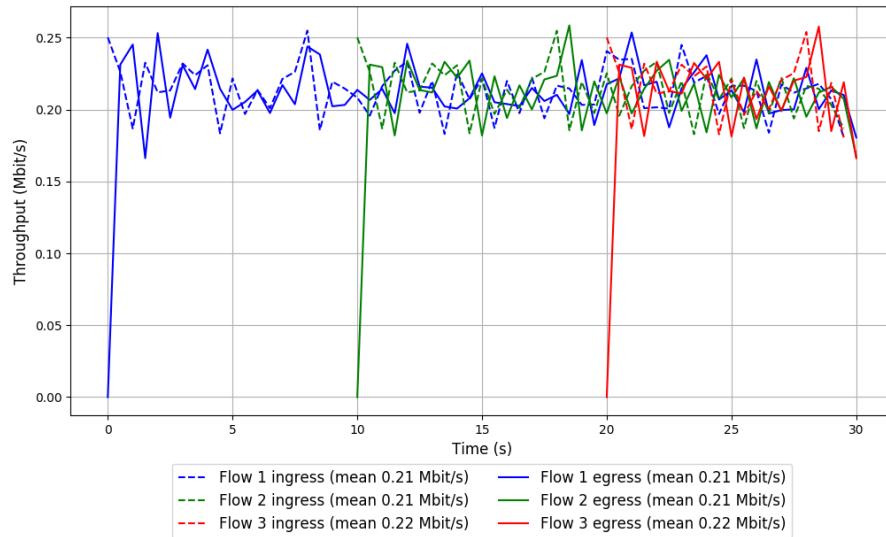


```
Run 3: Statistics of SCReAM

Start at: 2019-02-05 19:08:47
End at: 2019-02-05 19:09:17
Local clock offset: -0.365 ms
Remote clock offset: -6.12 ms

# Below is generated by plot.py at 2019-02-05 20:35:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 38.356 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 38.363 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 38.321 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 38.294 ms
Loss rate: 0.71%
```

Run 3: Report of SCReAM — Data Link

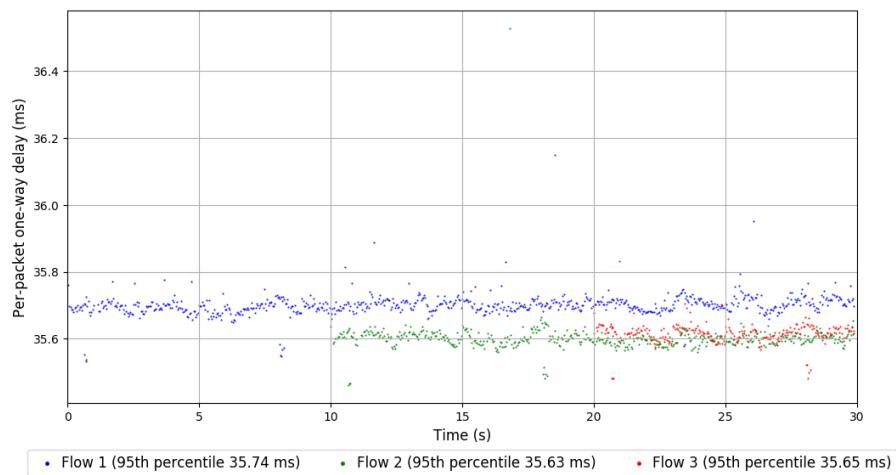
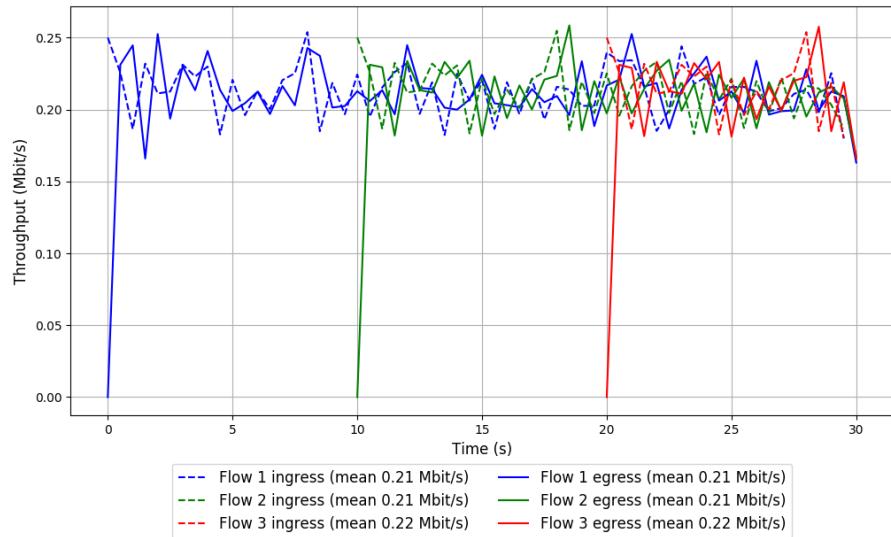


Run 4: Statistics of SCReAM

```
Start at: 2019-02-05 19:34:56
End at: 2019-02-05 19:35:26
Local clock offset: -0.091 ms
Remote clock offset: -2.476 ms

# Below is generated by plot.py at 2019-02-05 20:35:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 35.727 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 35.736 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 35.635 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 35.648 ms
Loss rate: 0.71%
```

## Run 4: Report of SCReAM — Data Link

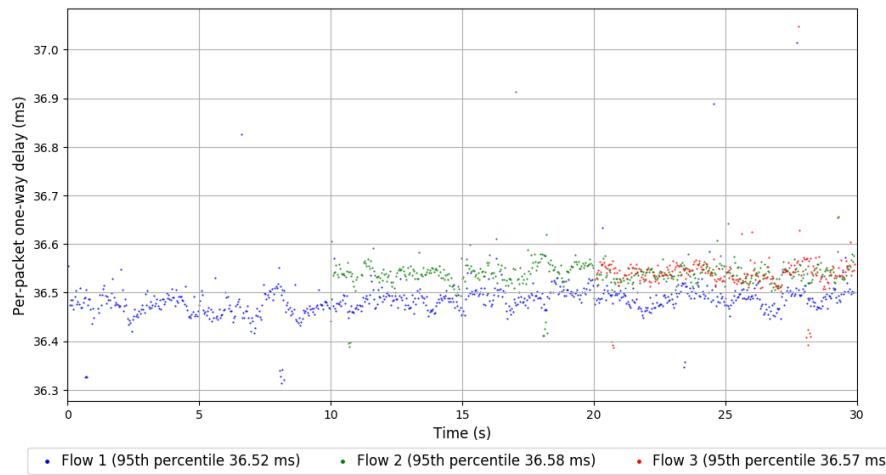
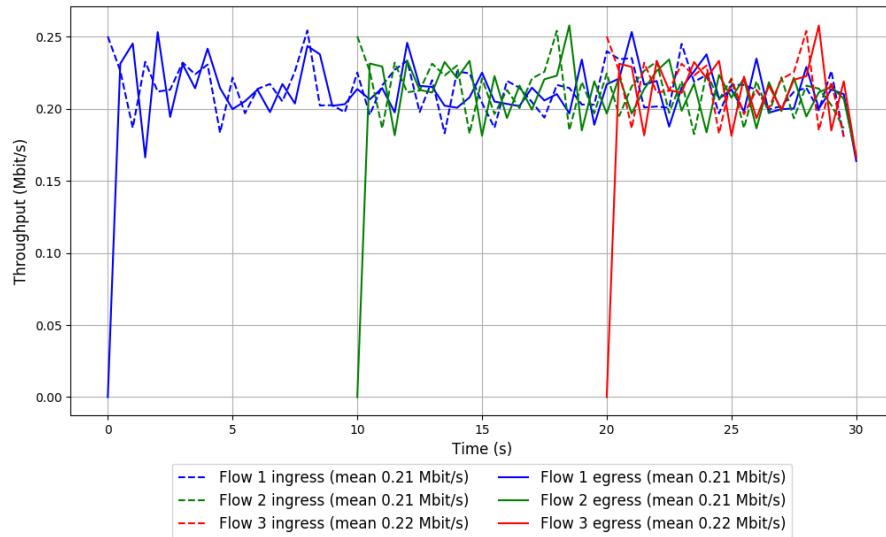


Run 5: Statistics of SCReAM

```
Start at: 2019-02-05 20:01:16
End at: 2019-02-05 20:01:46
Local clock offset: 0.177 ms
Remote clock offset: -2.651 ms

# Below is generated by plot.py at 2019-02-05 20:35:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 36.564 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 36.519 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 36.575 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 36.569 ms
Loss rate: 0.71%
```

Run 5: Report of SCReAM — Data Link

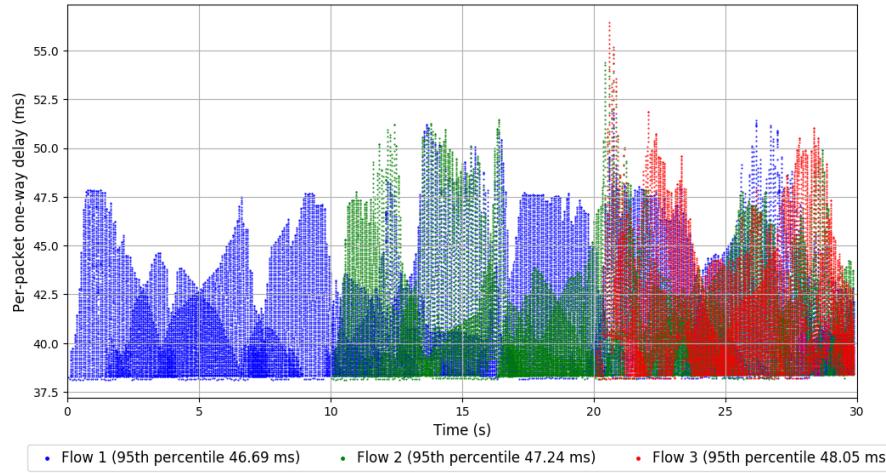
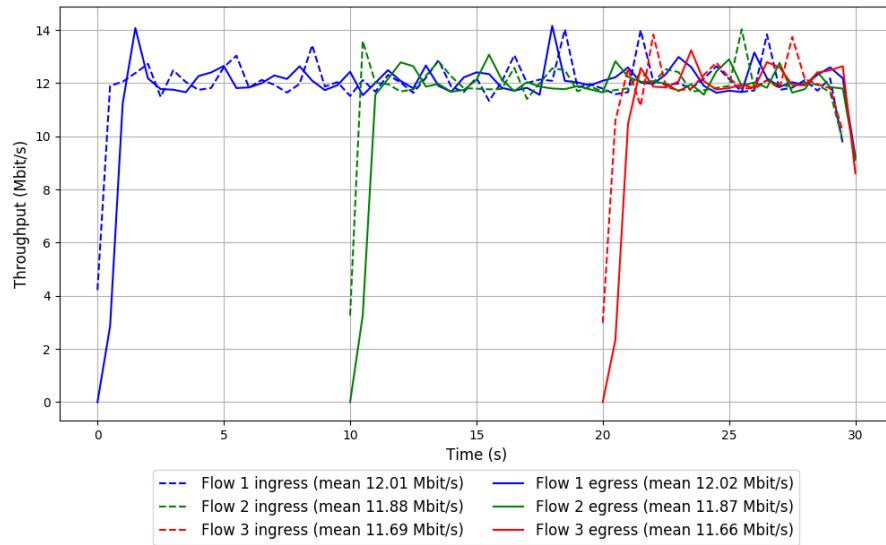


Run 1: Statistics of Sprout

```
Start at: 2019-02-05 18:24:34
End at: 2019-02-05 18:25:04
Local clock offset: 1.041 ms
Remote clock offset: -8.447 ms

# Below is generated by plot.py at 2019-02-05 20:35:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.74 Mbit/s
95th percentile per-packet one-way delay: 47.068 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 12.02 Mbit/s
95th percentile per-packet one-way delay: 46.686 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 11.87 Mbit/s
95th percentile per-packet one-way delay: 47.240 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 11.66 Mbit/s
95th percentile per-packet one-way delay: 48.046 ms
Loss rate: 0.84%
```

## Run 1: Report of Sprout — Data Link

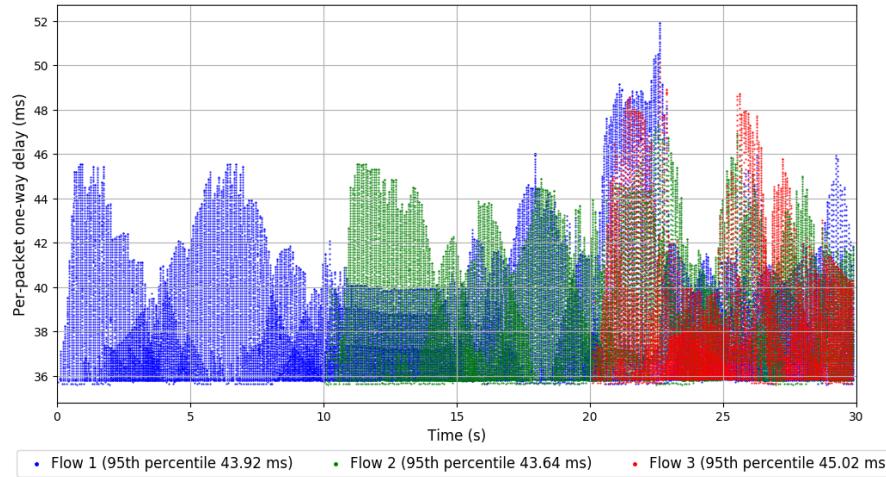
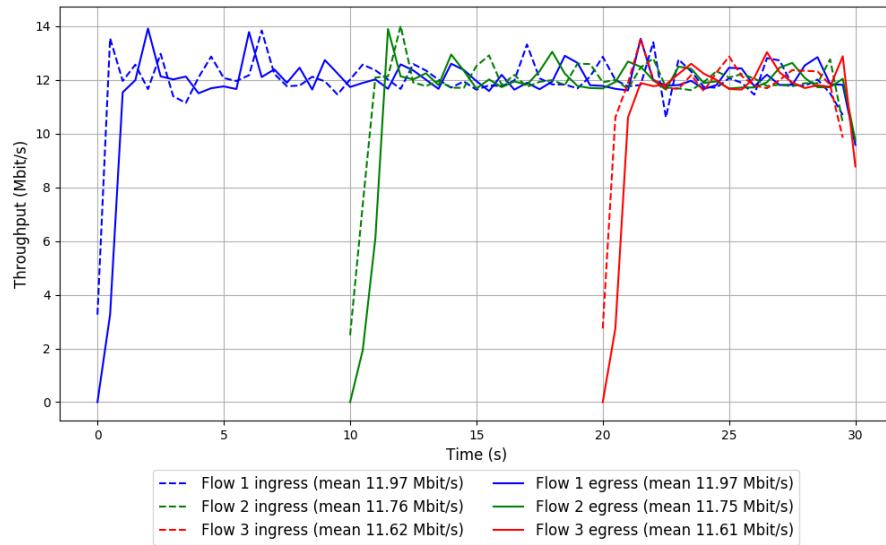


Run 2: Statistics of Sprout

```
Start at: 2019-02-05 18:50:27
End at: 2019-02-05 18:50:57
Local clock offset: -0.513 ms
Remote clock offset: -4.659 ms

# Below is generated by plot.py at 2019-02-05 20:35:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.59 Mbit/s
95th percentile per-packet one-way delay: 43.944 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 11.97 Mbit/s
95th percentile per-packet one-way delay: 43.921 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 11.75 Mbit/s
95th percentile per-packet one-way delay: 43.636 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 11.61 Mbit/s
95th percentile per-packet one-way delay: 45.019 ms
Loss rate: 0.86%
```

## Run 2: Report of Sprout — Data Link

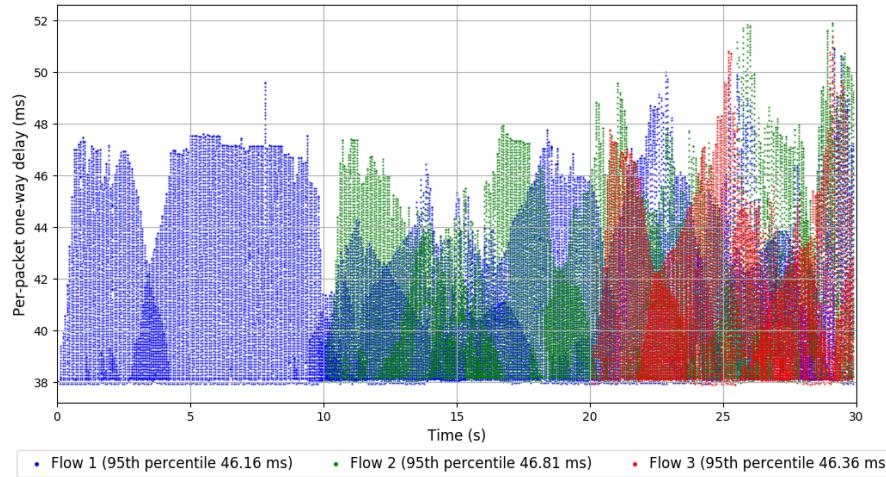
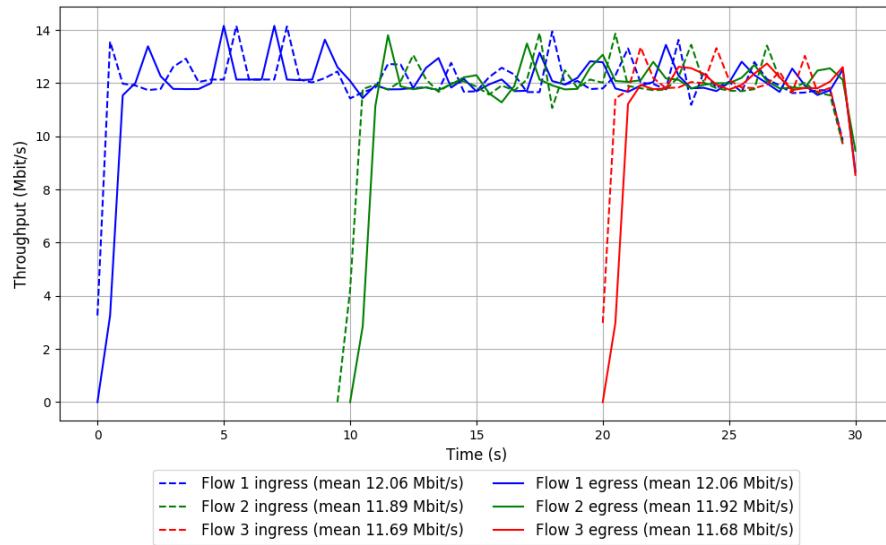


Run 3: Statistics of Sprout

```
Start at: 2019-02-05 19:16:07
End at: 2019-02-05 19:16:37
Local clock offset: -0.468 ms
Remote clock offset: -5.721 ms

# Below is generated by plot.py at 2019-02-05 20:35:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.82 Mbit/s
95th percentile per-packet one-way delay: 46.402 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 12.06 Mbit/s
95th percentile per-packet one-way delay: 46.164 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 11.92 Mbit/s
95th percentile per-packet one-way delay: 46.811 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 11.68 Mbit/s
95th percentile per-packet one-way delay: 46.359 ms
Loss rate: 0.84%
```

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

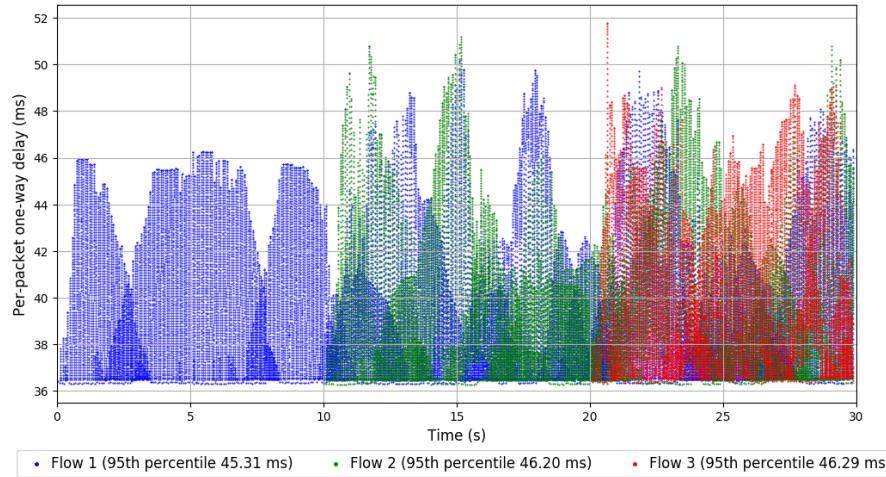
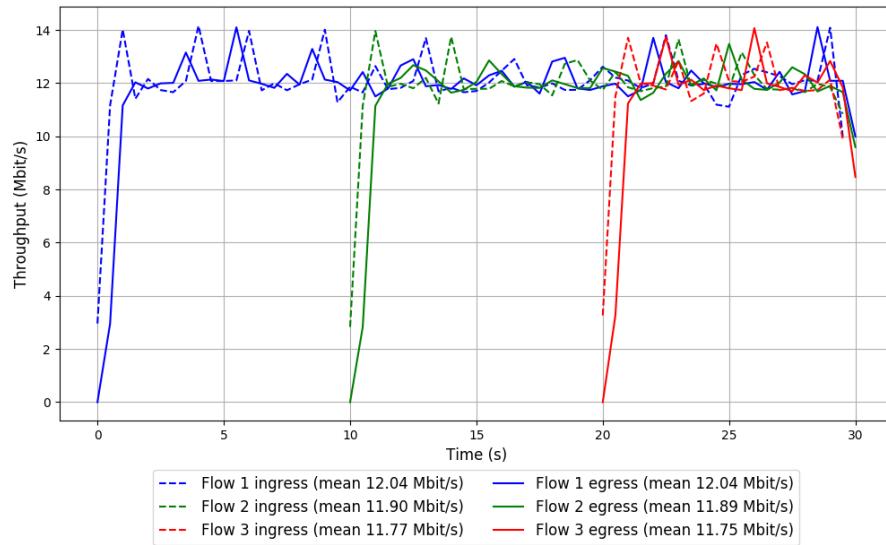


Run 4: Statistics of Sprout

```
Start at: 2019-02-05 19:42:21
End at: 2019-02-05 19:42:51
Local clock offset: -0.151 ms
Remote clock offset: -3.114 ms

# Below is generated by plot.py at 2019-02-05 20:35:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.79 Mbit/s
95th percentile per-packet one-way delay: 45.769 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 12.04 Mbit/s
95th percentile per-packet one-way delay: 45.308 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 11.89 Mbit/s
95th percentile per-packet one-way delay: 46.202 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 11.75 Mbit/s
95th percentile per-packet one-way delay: 46.287 ms
Loss rate: 0.78%
```

Run 4: Report of Sprout — Data Link

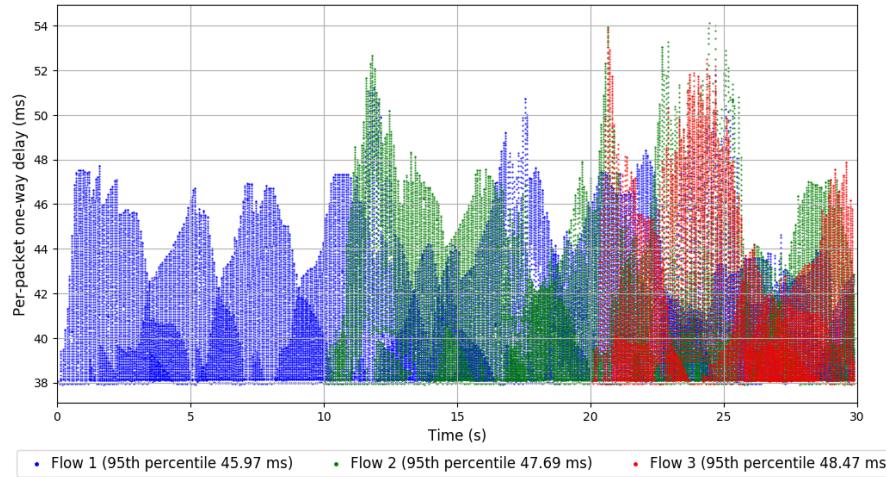
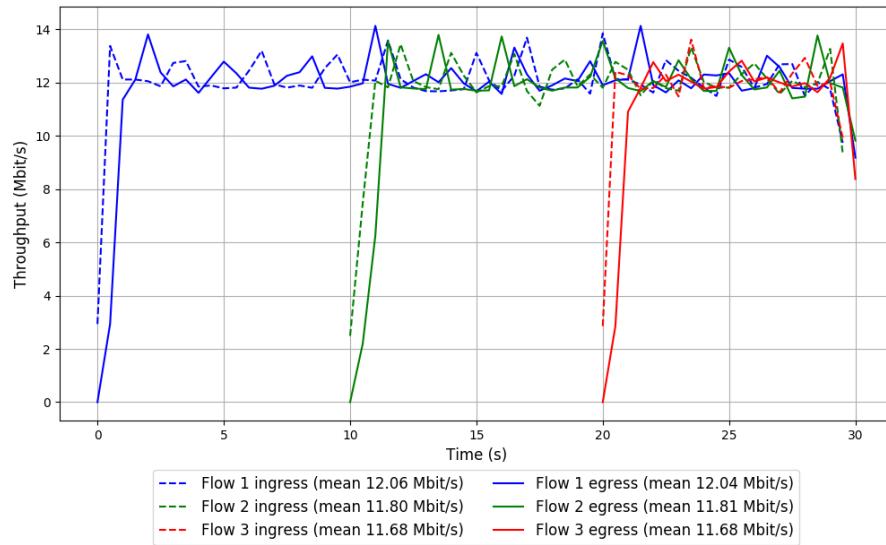


Run 5: Statistics of Sprout

```
Start at: 2019-02-05 20:08:38
End at: 2019-02-05 20:09:08
Local clock offset: 0.153 ms
Remote clock offset: -4.056 ms

# Below is generated by plot.py at 2019-02-05 20:35:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.73 Mbit/s
95th percentile per-packet one-way delay: 46.946 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 12.04 Mbit/s
95th percentile per-packet one-way delay: 45.968 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 11.81 Mbit/s
95th percentile per-packet one-way delay: 47.690 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 11.68 Mbit/s
95th percentile per-packet one-way delay: 48.469 ms
Loss rate: 0.75%
```

Run 5: Report of Sprout — Data Link

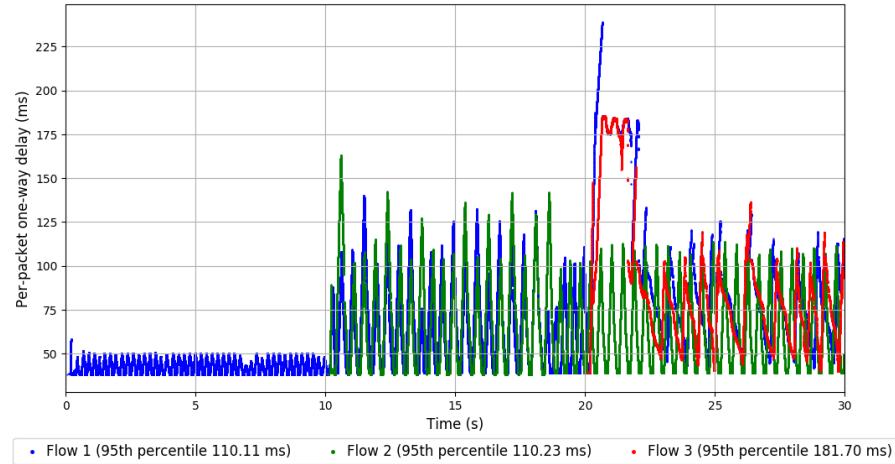
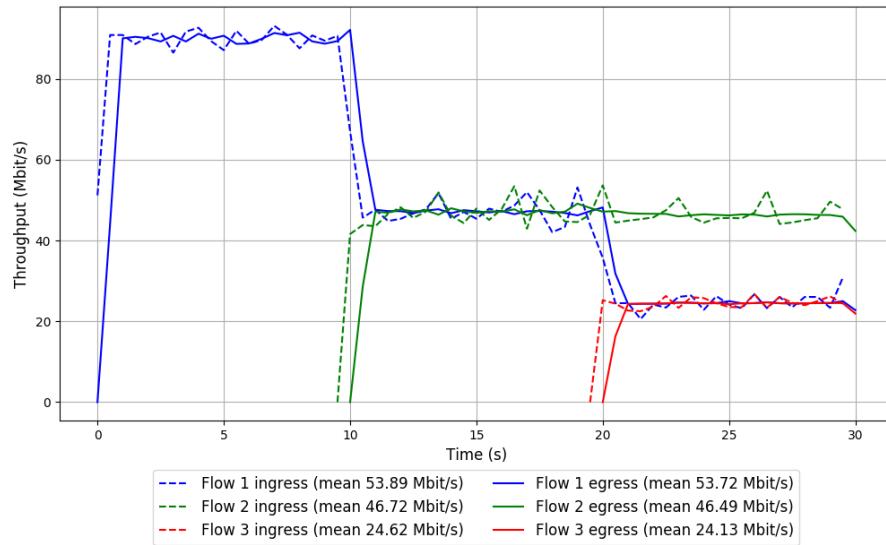


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-02-05 18:34:31
End at: 2019-02-05 18:35:01
Local clock offset: -0.118 ms
Remote clock offset: -7.905 ms

# Below is generated by plot.py at 2019-02-05 20:36:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.67 Mbit/s
95th percentile per-packet one-way delay: 114.187 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 53.72 Mbit/s
95th percentile per-packet one-way delay: 110.113 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 46.49 Mbit/s
95th percentile per-packet one-way delay: 110.233 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 24.13 Mbit/s
95th percentile per-packet one-way delay: 181.698 ms
Loss rate: 2.61%
```

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

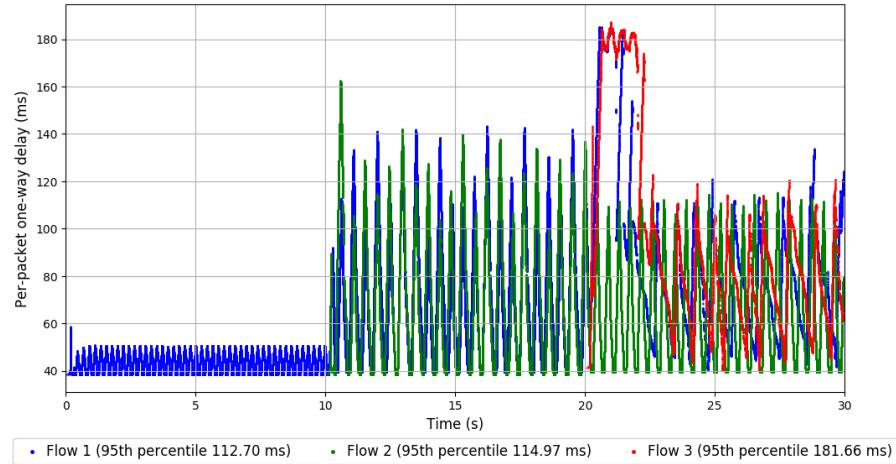
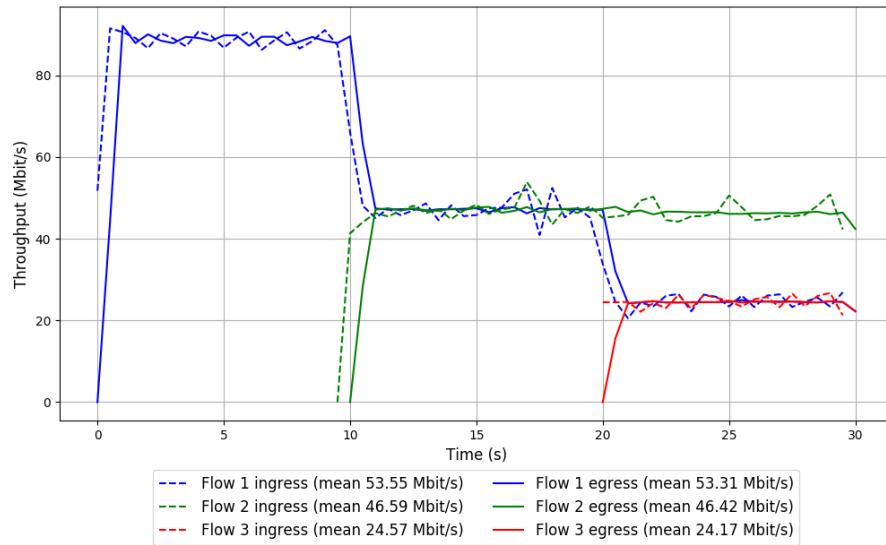


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-02-05 19:00:16
End at: 2019-02-05 19:00:46
Local clock offset: -0.319 ms
Remote clock offset: -6.928 ms

# Below is generated by plot.py at 2019-02-05 20:36:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.21 Mbit/s
95th percentile per-packet one-way delay: 119.882 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 53.31 Mbit/s
95th percentile per-packet one-way delay: 112.699 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 46.42 Mbit/s
95th percentile per-packet one-way delay: 114.967 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 24.17 Mbit/s
95th percentile per-packet one-way delay: 181.659 ms
Loss rate: 2.28%
```

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

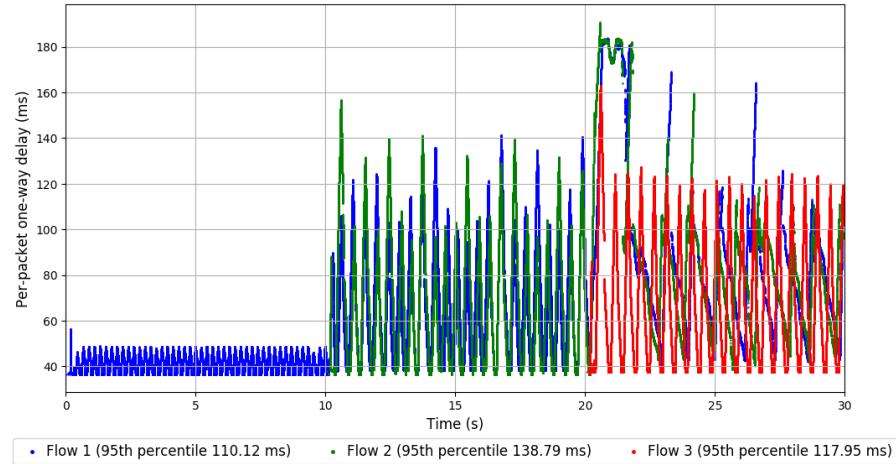
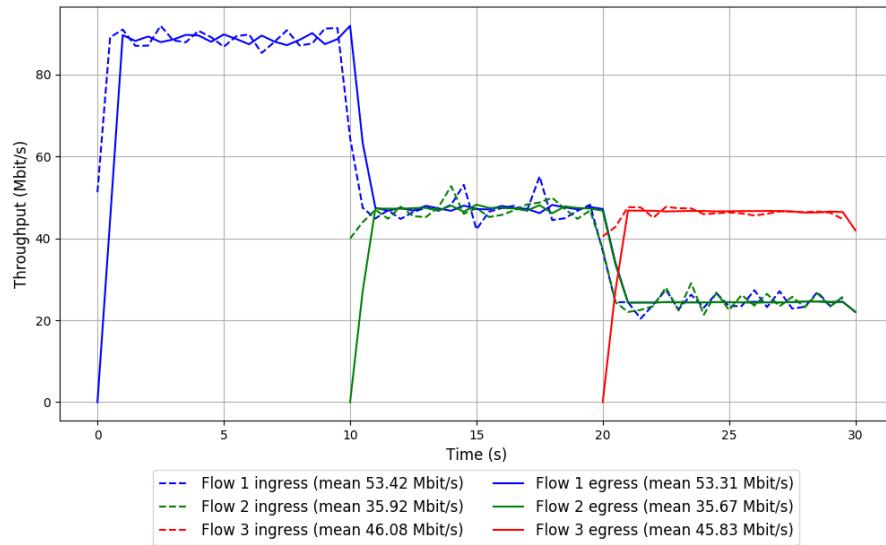


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-02-05 19:26:18
End at: 2019-02-05 19:26:48
Local clock offset: -0.113 ms
Remote clock offset: -3.737 ms

# Below is generated by plot.py at 2019-02-05 20:36:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.22 Mbit/s
95th percentile per-packet one-way delay: 119.626 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 53.31 Mbit/s
95th percentile per-packet one-way delay: 110.124 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 35.67 Mbit/s
95th percentile per-packet one-way delay: 138.788 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 45.83 Mbit/s
95th percentile per-packet one-way delay: 117.952 ms
Loss rate: 1.19%
```

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

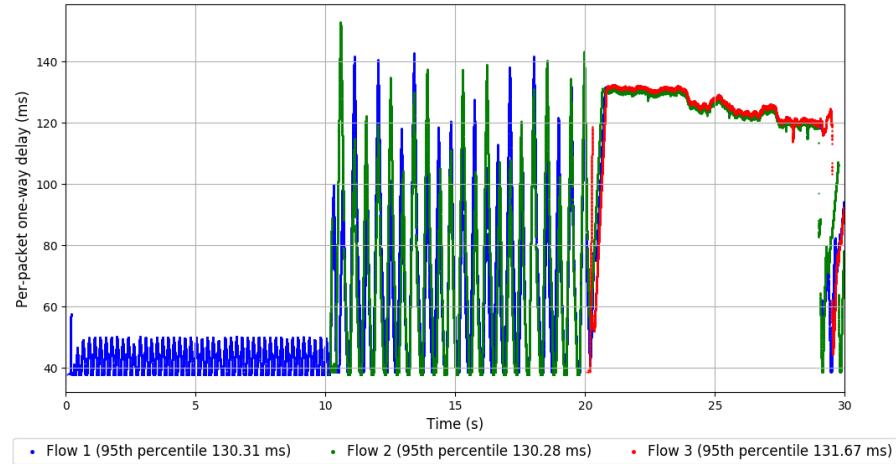
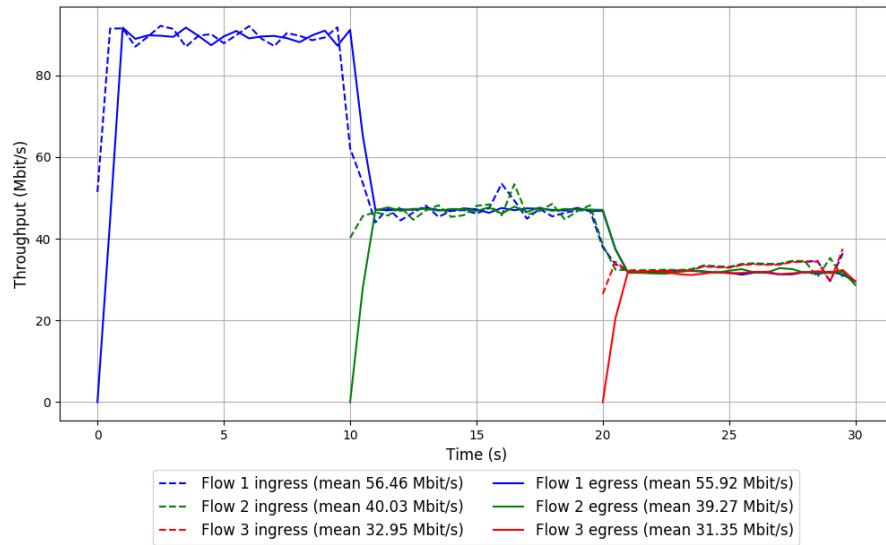


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-02-05 19:52:32
End at: 2019-02-05 19:53:02
Local clock offset: 0.061 ms
Remote clock offset: -4.294 ms

# Below is generated by plot.py at 2019-02-05 20:36:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.45 Mbit/s
95th percentile per-packet one-way delay: 130.812 ms
Loss rate: 1.96%
-- Flow 1:
Average throughput: 55.92 Mbit/s
95th percentile per-packet one-way delay: 130.307 ms
Loss rate: 1.17%
-- Flow 2:
Average throughput: 39.27 Mbit/s
95th percentile per-packet one-way delay: 130.281 ms
Loss rate: 2.20%
-- Flow 3:
Average throughput: 31.35 Mbit/s
95th percentile per-packet one-way delay: 131.666 ms
Loss rate: 5.47%
```

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

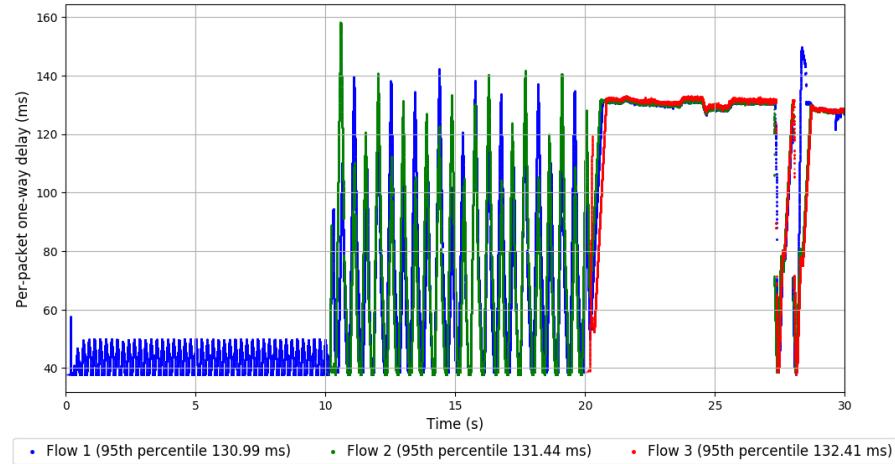
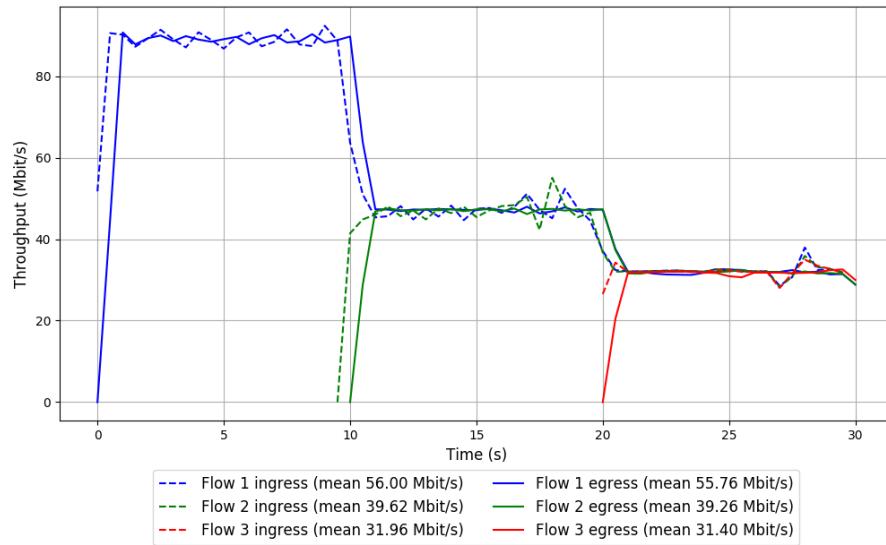


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-02-05 20:18:36
End at: 2019-02-05 20:19:06
Local clock offset: 0.151 ms
Remote clock offset: -3.771 ms

# Below is generated by plot.py at 2019-02-05 20:36:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.31 Mbit/s
95th percentile per-packet one-way delay: 131.612 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 55.76 Mbit/s
95th percentile per-packet one-way delay: 130.993 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 39.26 Mbit/s
95th percentile per-packet one-way delay: 131.440 ms
Loss rate: 1.23%
-- Flow 3:
Average throughput: 31.40 Mbit/s
95th percentile per-packet one-way delay: 132.407 ms
Loss rate: 2.38%
```

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

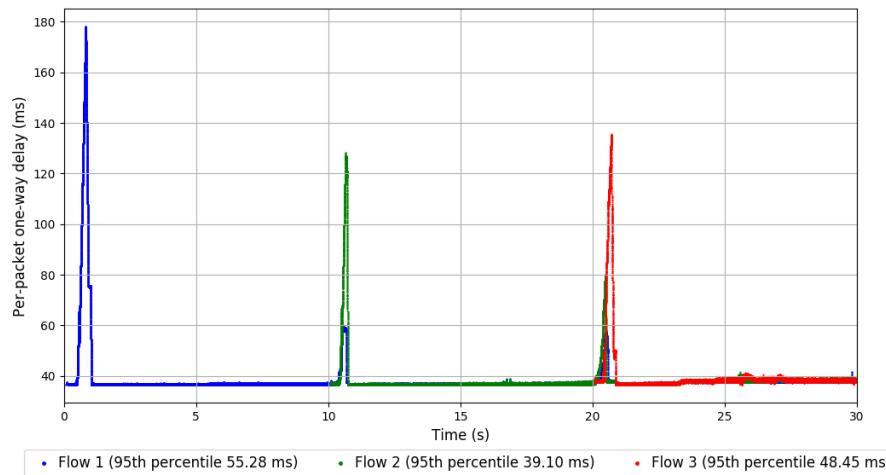
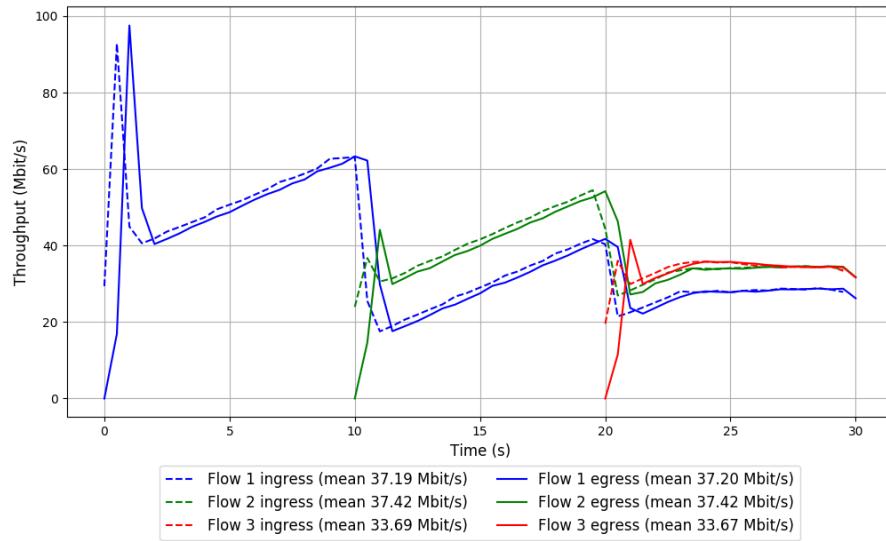


Run 1: Statistics of TCP Vegas

```
Start at: 2019-02-05 18:28:19
End at: 2019-02-05 18:28:49
Local clock offset: 0.497 ms
Remote clock offset: -6.633 ms

# Below is generated by plot.py at 2019-02-05 20:36:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 73.26 Mbit/s
95th percentile per-packet one-way delay: 44.608 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 37.20 Mbit/s
95th percentile per-packet one-way delay: 55.283 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 37.42 Mbit/s
95th percentile per-packet one-way delay: 39.100 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 33.67 Mbit/s
95th percentile per-packet one-way delay: 48.447 ms
Loss rate: 0.69%
```

Run 1: Report of TCP Vegas — Data Link

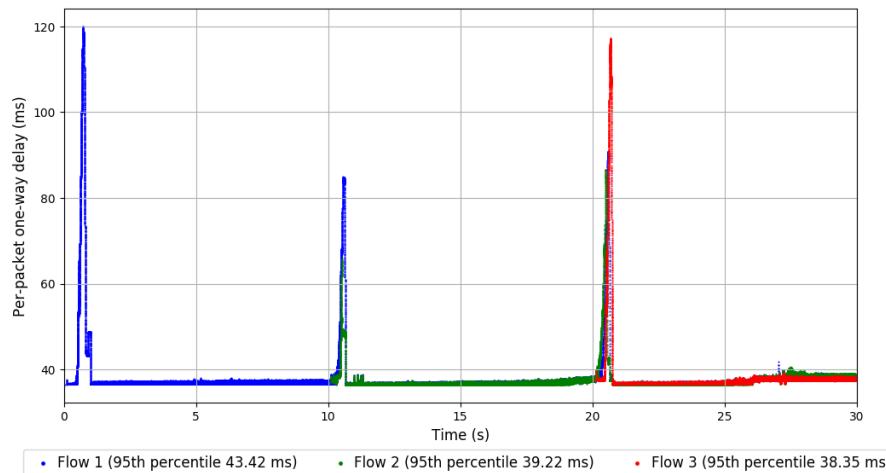
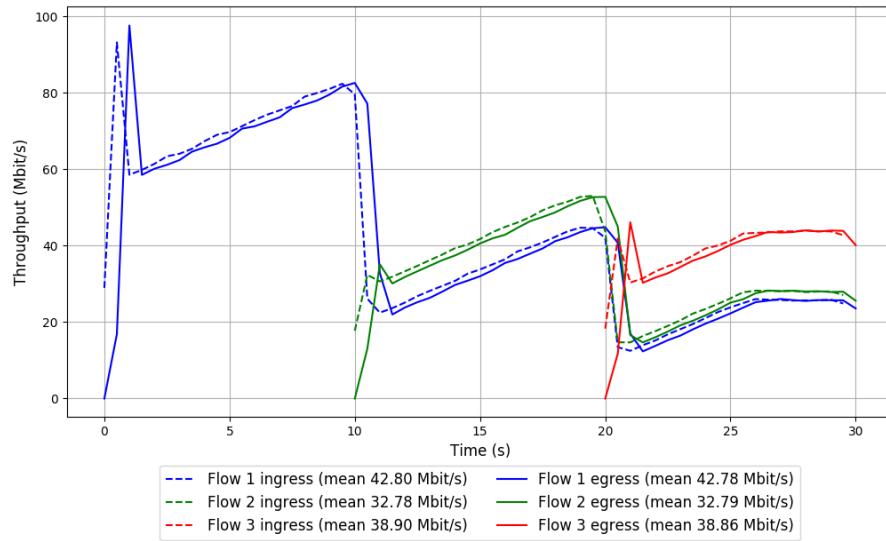


Run 2: Statistics of TCP Vegas

```
Start at: 2019-02-05 18:54:04
End at: 2019-02-05 18:54:34
Local clock offset: -0.389 ms
Remote clock offset: -5.224 ms

# Below is generated by plot.py at 2019-02-05 20:36:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.45 Mbit/s
95th percentile per-packet one-way delay: 39.885 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 42.78 Mbit/s
95th percentile per-packet one-way delay: 43.418 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 32.79 Mbit/s
95th percentile per-packet one-way delay: 39.218 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 38.86 Mbit/s
95th percentile per-packet one-way delay: 38.354 ms
Loss rate: 0.75%
```

Run 2: Report of TCP Vegas — Data Link

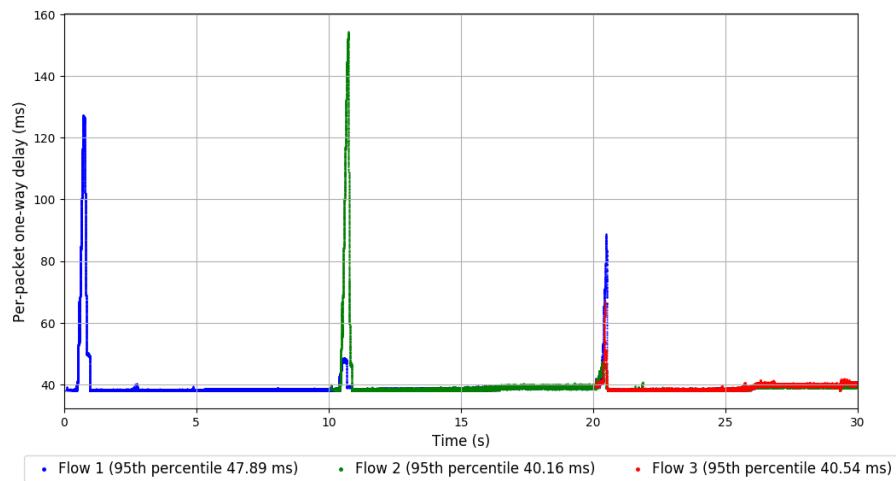
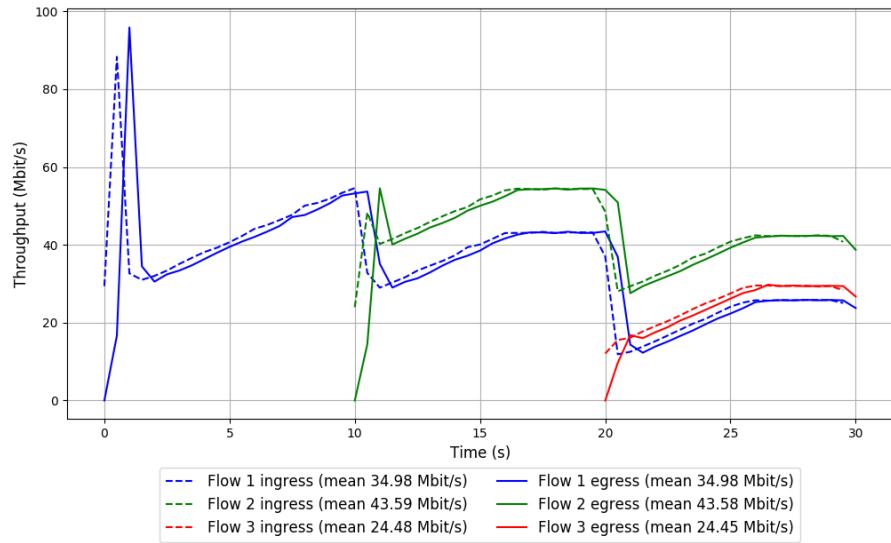


Run 3: Statistics of TCP Vegas

```
Start at: 2019-02-05 19:19:43
End at: 2019-02-05 19:20:13
Local clock offset: -0.294 ms
Remote clock offset: -5.596 ms

# Below is generated by plot.py at 2019-02-05 20:36:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 72.09 Mbit/s
95th percentile per-packet one-way delay: 42.066 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 34.98 Mbit/s
95th percentile per-packet one-way delay: 47.887 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 43.58 Mbit/s
95th percentile per-packet one-way delay: 40.161 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 24.45 Mbit/s
95th percentile per-packet one-way delay: 40.544 ms
Loss rate: 0.79%
```

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

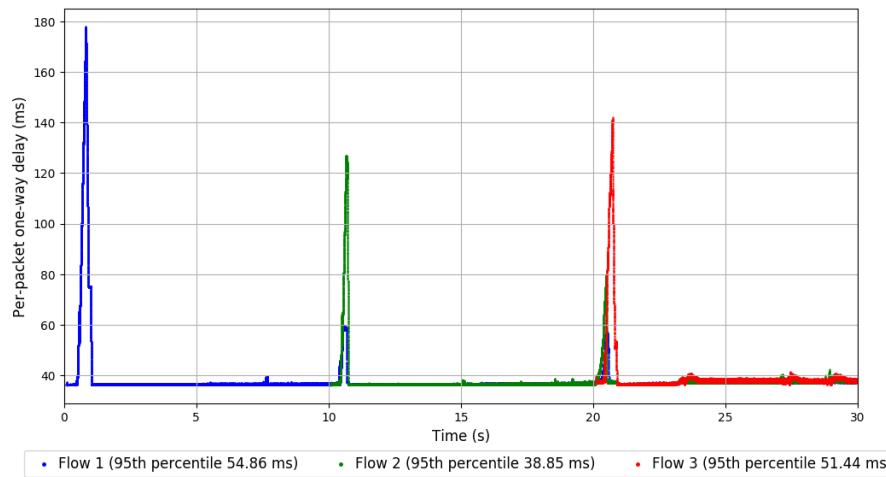
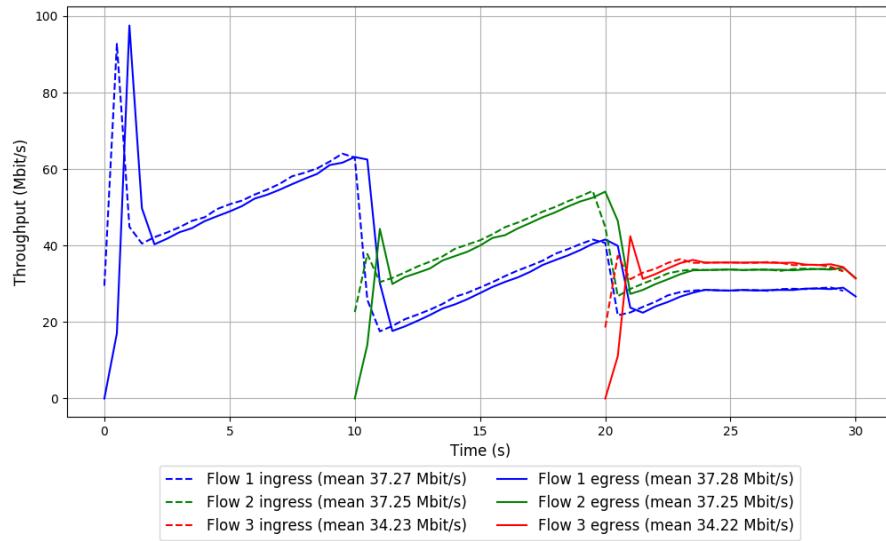


Run 4: Statistics of TCP Vegas

```
Start at: 2019-02-05 19:46:09
End at: 2019-02-05 19:46:39
Local clock offset: -0.183 ms
Remote clock offset: -2.826 ms

# Below is generated by plot.py at 2019-02-05 20:36:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 73.40 Mbit/s
95th percentile per-packet one-way delay: 44.631 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 37.28 Mbit/s
95th percentile per-packet one-way delay: 54.861 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 37.25 Mbit/s
95th percentile per-packet one-way delay: 38.855 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 34.22 Mbit/s
95th percentile per-packet one-way delay: 51.441 ms
Loss rate: 0.69%
```

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

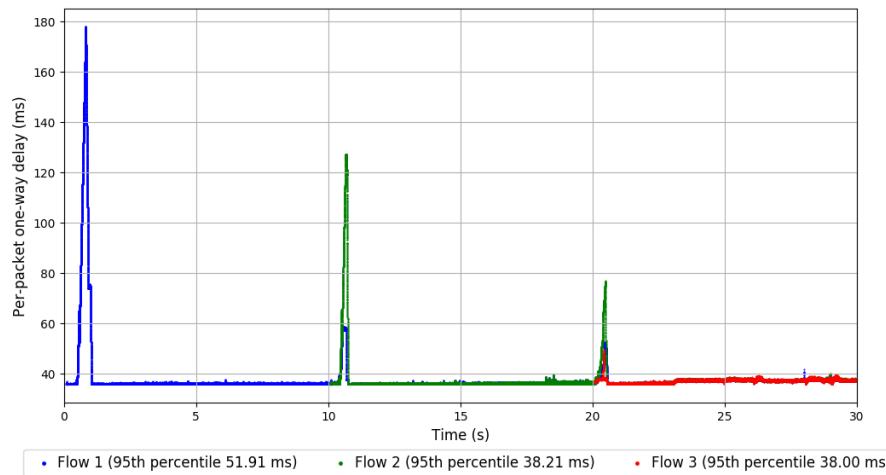
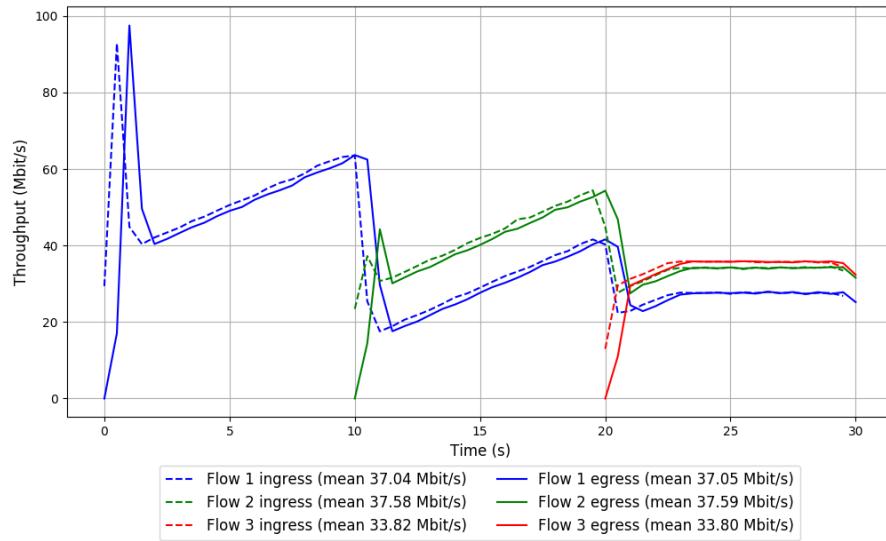


Run 5: Statistics of TCP Vegas

```
Start at: 2019-02-05 20:12:15
End at: 2019-02-05 20:12:45
Local clock offset: 0.142 ms
Remote clock offset: -1.77 ms

# Below is generated by plot.py at 2019-02-05 20:36:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 73.27 Mbit/s
95th percentile per-packet one-way delay: 38.599 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 37.05 Mbit/s
95th percentile per-packet one-way delay: 51.914 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 37.59 Mbit/s
95th percentile per-packet one-way delay: 38.214 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 33.80 Mbit/s
95th percentile per-packet one-way delay: 37.997 ms
Loss rate: 0.69%
```

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

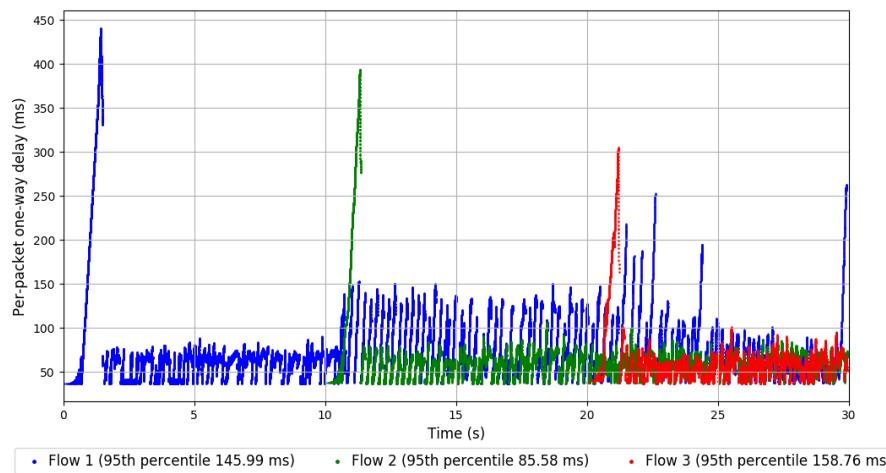
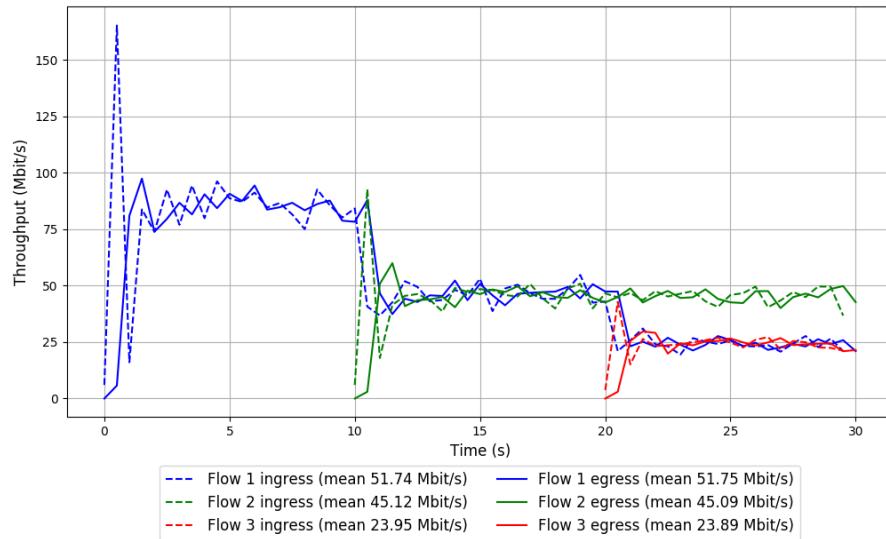


Run 1: Statistics of Verus

```
Start at: 2019-02-05 18:23:19
End at: 2019-02-05 18:23:49
Local clock offset: 1.279 ms
Remote clock offset: -6.557 ms

# Below is generated by plot.py at 2019-02-05 20:37:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.60 Mbit/s
95th percentile per-packet one-way delay: 136.377 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 51.75 Mbit/s
95th percentile per-packet one-way delay: 145.992 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 45.09 Mbit/s
95th percentile per-packet one-way delay: 85.576 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 23.89 Mbit/s
95th percentile per-packet one-way delay: 158.760 ms
Loss rate: 0.89%
```

Run 1: Report of Verus — Data Link

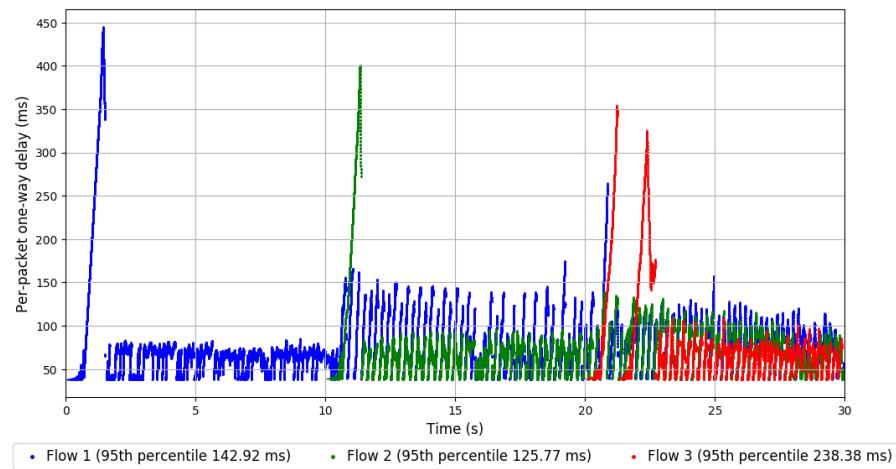
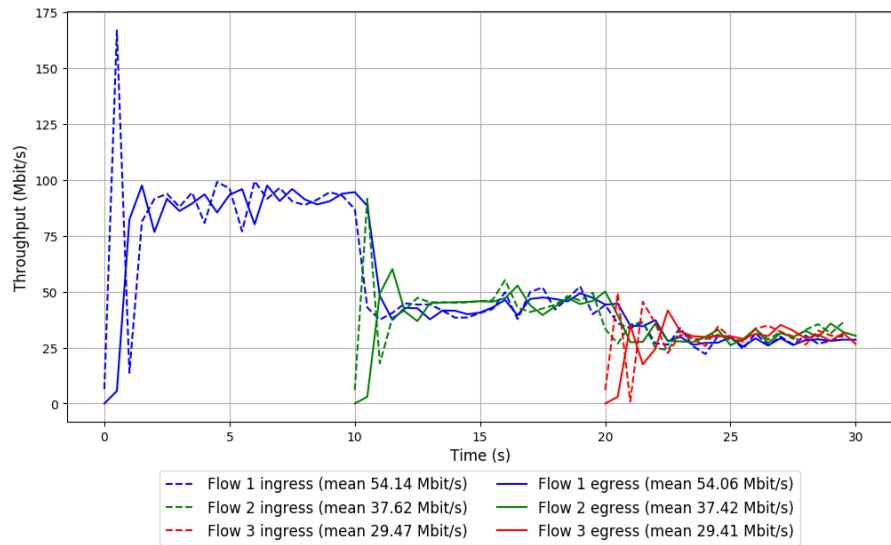


Run 2: Statistics of Verus

```
Start at: 2019-02-05 18:49:13
End at: 2019-02-05 18:49:43
Local clock offset: -0.574 ms
Remote clock offset: -7.238 ms

# Below is generated by plot.py at 2019-02-05 20:37:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.61 Mbit/s
95th percentile per-packet one-way delay: 156.587 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 54.06 Mbit/s
95th percentile per-packet one-way delay: 142.919 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 37.42 Mbit/s
95th percentile per-packet one-way delay: 125.774 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 29.41 Mbit/s
95th percentile per-packet one-way delay: 238.382 ms
Loss rate: 1.51%
```

## Run 2: Report of Verus — Data Link

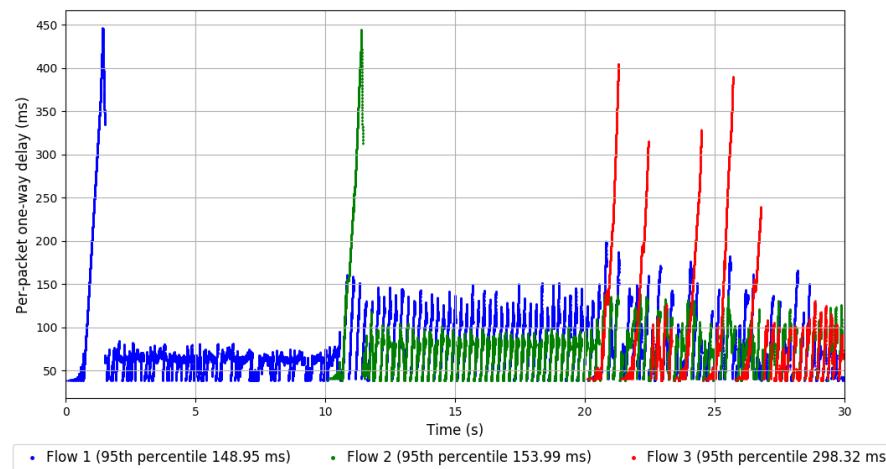
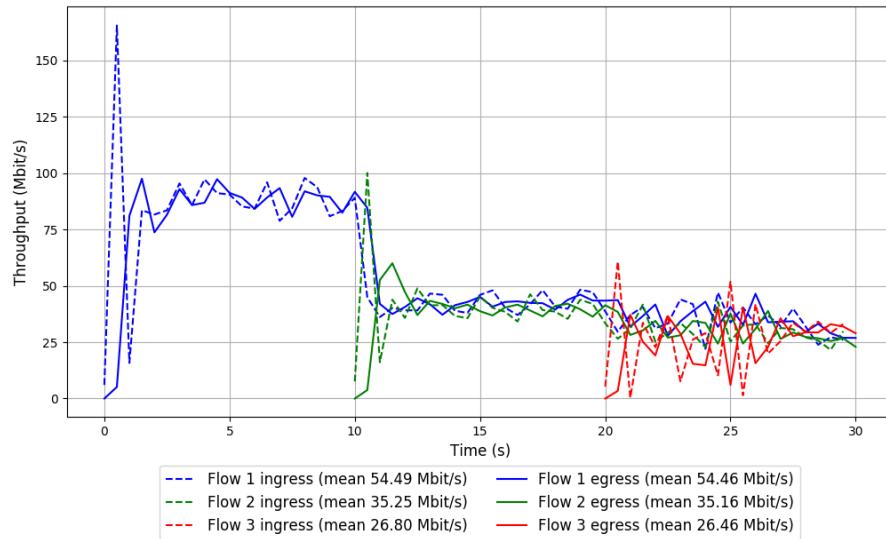


Run 3: Statistics of Verus

```
Start at: 2019-02-05 19:14:53
End at: 2019-02-05 19:15:23
Local clock offset: -0.497 ms
Remote clock offset: -6.242 ms

# Below is generated by plot.py at 2019-02-05 20:37:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.53 Mbit/s
95th percentile per-packet one-way delay: 189.946 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 54.46 Mbit/s
95th percentile per-packet one-way delay: 148.953 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 35.16 Mbit/s
95th percentile per-packet one-way delay: 153.991 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 26.46 Mbit/s
95th percentile per-packet one-way delay: 298.316 ms
Loss rate: 2.11%
```

Run 3: Report of Verus — Data Link

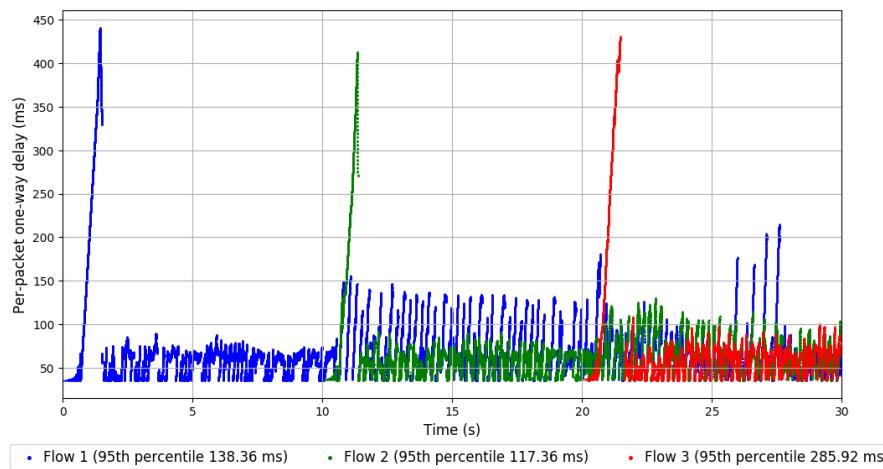
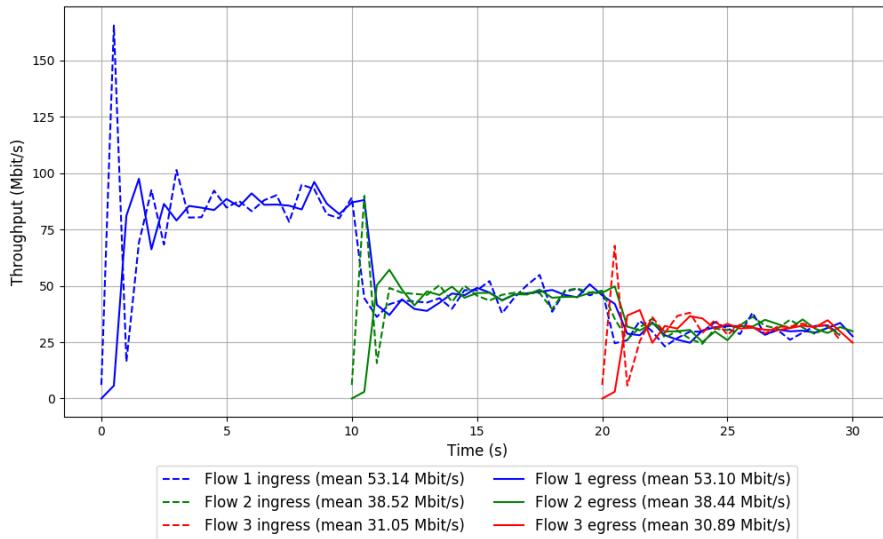


Run 4: Statistics of Verus

```
Start at: 2019-02-05 19:41:05
End at: 2019-02-05 19:41:35
Local clock offset: -0.129 ms
Remote clock offset: -2.298 ms

# Below is generated by plot.py at 2019-02-05 20:37:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.89 Mbit/s
95th percentile per-packet one-way delay: 138.534 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 53.10 Mbit/s
95th percentile per-packet one-way delay: 138.362 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 38.44 Mbit/s
95th percentile per-packet one-way delay: 117.359 ms
Loss rate: 0.30%
-- Flow 3:
Average throughput: 30.89 Mbit/s
95th percentile per-packet one-way delay: 285.915 ms
Loss rate: 1.13%
```

Run 4: Report of Verus — Data Link

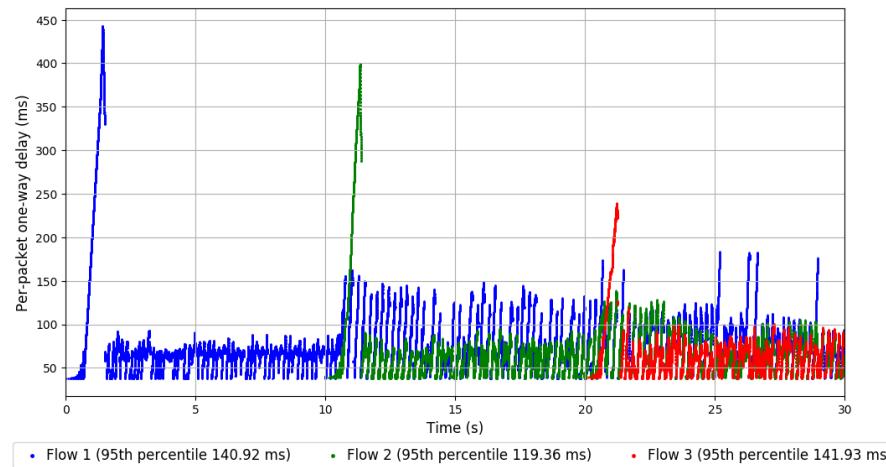
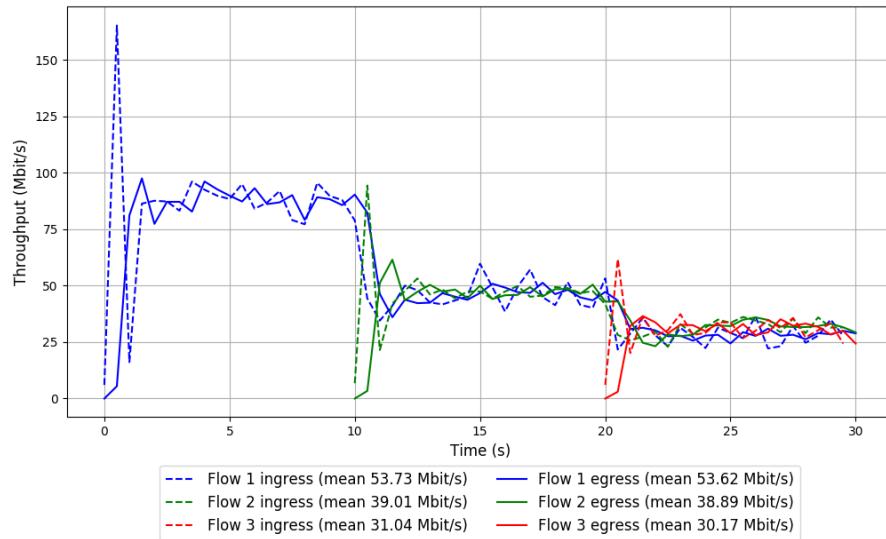


Run 5: Statistics of Verus

```
Start at: 2019-02-05 20:07:23
End at: 2019-02-05 20:07:53
Local clock offset: 0.174 ms
Remote clock offset: -4.121 ms

# Below is generated by plot.py at 2019-02-05 20:37:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.47 Mbit/s
95th percentile per-packet one-way delay: 136.648 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 53.62 Mbit/s
95th percentile per-packet one-way delay: 140.923 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 38.89 Mbit/s
95th percentile per-packet one-way delay: 119.356 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 30.17 Mbit/s
95th percentile per-packet one-way delay: 141.933 ms
Loss rate: 3.40%
```

Run 5: Report of Verus — Data Link

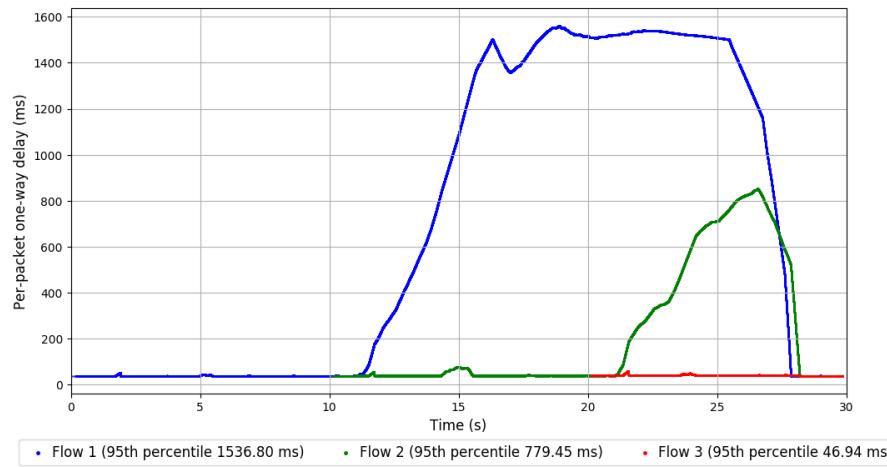
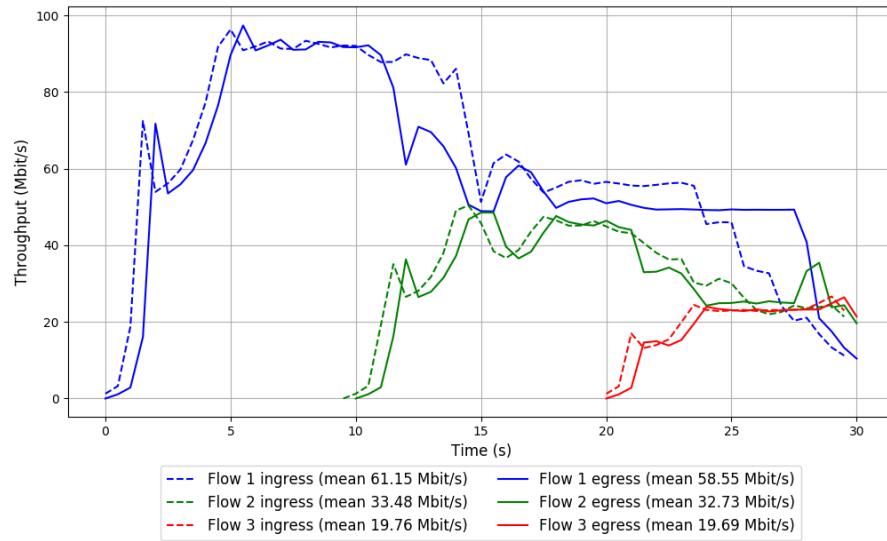


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-02-05 18:29:32
End at: 2019-02-05 18:30:02
Local clock offset: 0.383 ms
Remote clock offset: -8.693 ms

# Below is generated by plot.py at 2019-02-05 20:37:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.79 Mbit/s
95th percentile per-packet one-way delay: 1530.053 ms
Loss rate: 3.73%
-- Flow 1:
Average throughput: 58.55 Mbit/s
95th percentile per-packet one-way delay: 1536.802 ms
Loss rate: 4.45%
-- Flow 2:
Average throughput: 32.73 Mbit/s
95th percentile per-packet one-way delay: 779.445 ms
Loss rate: 2.53%
-- Flow 3:
Average throughput: 19.69 Mbit/s
95th percentile per-packet one-way delay: 46.937 ms
Loss rate: 0.99%
```

Run 1: Report of PCC-Vivace — Data Link

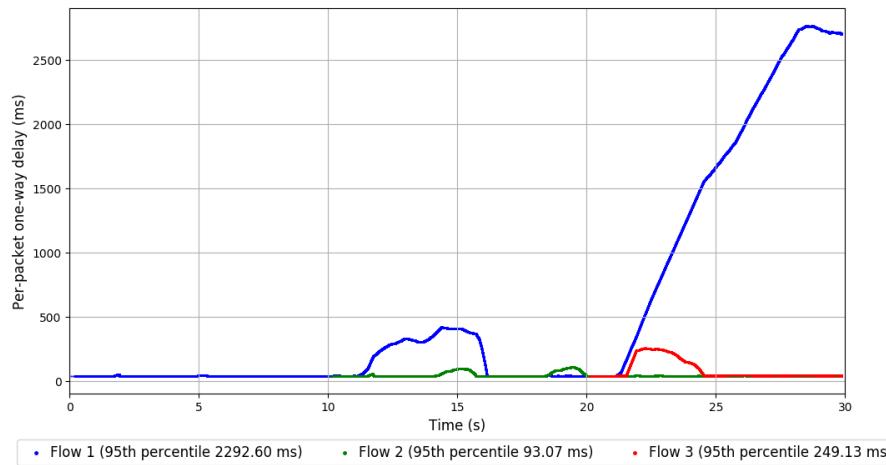
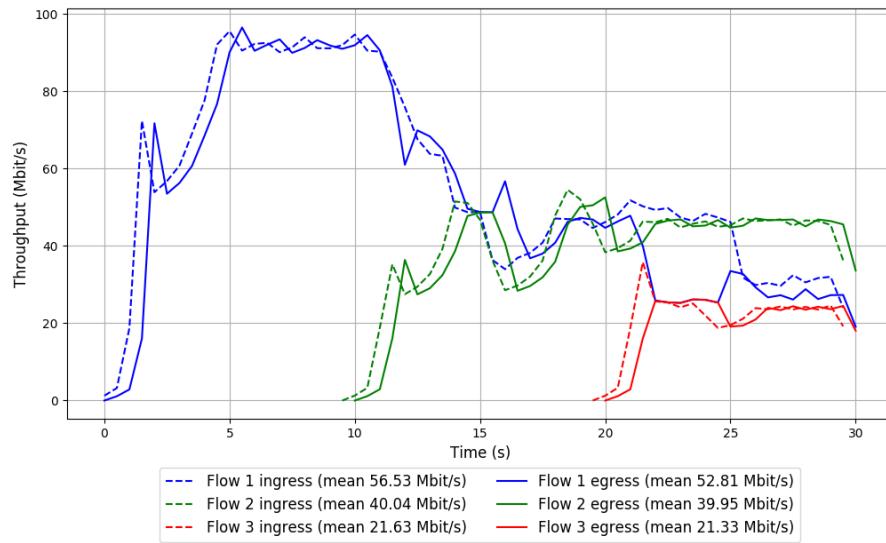


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-02-05 18:55:17
End at: 2019-02-05 18:55:47
Local clock offset: -0.363 ms
Remote clock offset: -7.039 ms

# Below is generated by plot.py at 2019-02-05 20:38:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.39 Mbit/s
95th percentile per-packet one-way delay: 1699.890 ms
Loss rate: 4.56%
-- Flow 1:
Average throughput: 52.81 Mbit/s
95th percentile per-packet one-way delay: 2292.598 ms
Loss rate: 6.78%
-- Flow 2:
Average throughput: 39.95 Mbit/s
95th percentile per-packet one-way delay: 93.066 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 21.33 Mbit/s
95th percentile per-packet one-way delay: 249.130 ms
Loss rate: 1.99%
```

## Run 2: Report of PCC-Vivace — Data Link

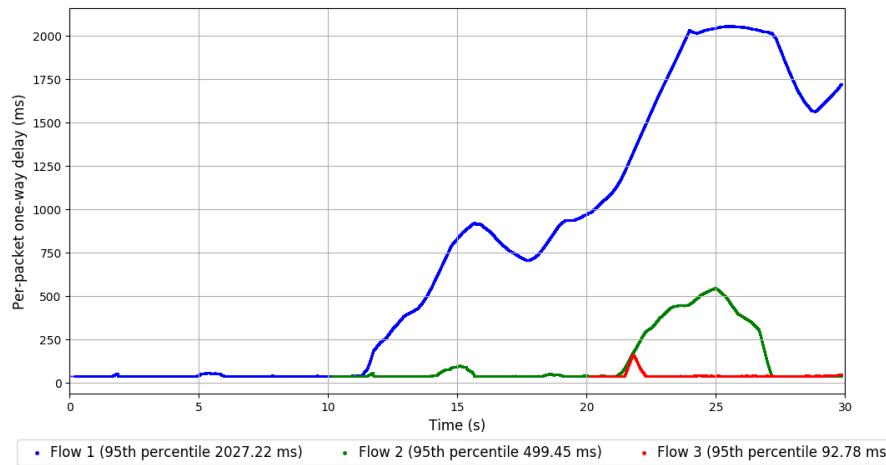
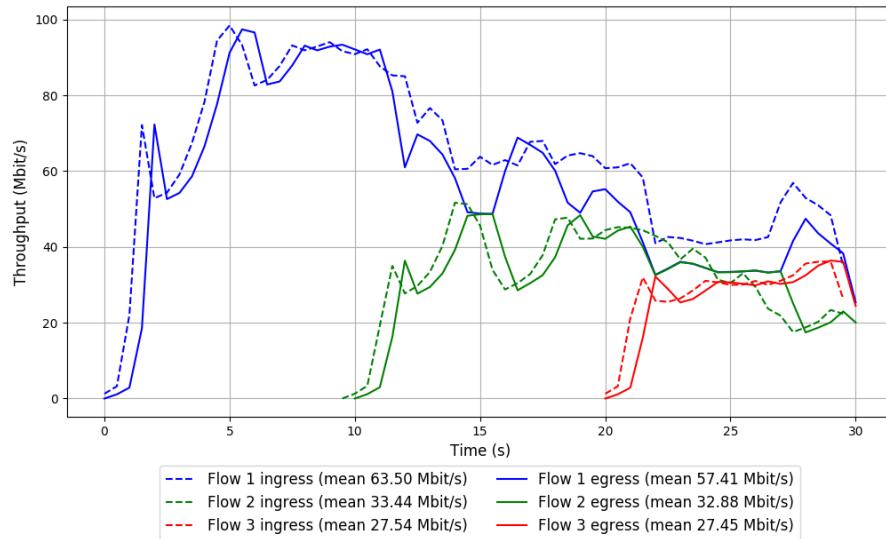


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-02-05 19:20:56
End at: 2019-02-05 19:21:26
Local clock offset: -0.26 ms
Remote clock offset: -5.619 ms

# Below is generated by plot.py at 2019-02-05 20:38:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.31 Mbit/s
95th percentile per-packet one-way delay: 1921.972 ms
Loss rate: 7.11%
-- Flow 1:
Average throughput: 57.41 Mbit/s
95th percentile per-packet one-way delay: 2027.223 ms
Loss rate: 9.79%
-- Flow 2:
Average throughput: 32.88 Mbit/s
95th percentile per-packet one-way delay: 499.450 ms
Loss rate: 1.97%
-- Flow 3:
Average throughput: 27.45 Mbit/s
95th percentile per-packet one-way delay: 92.779 ms
Loss rate: 0.96%
```

### Run 3: Report of PCC-Vivace — Data Link

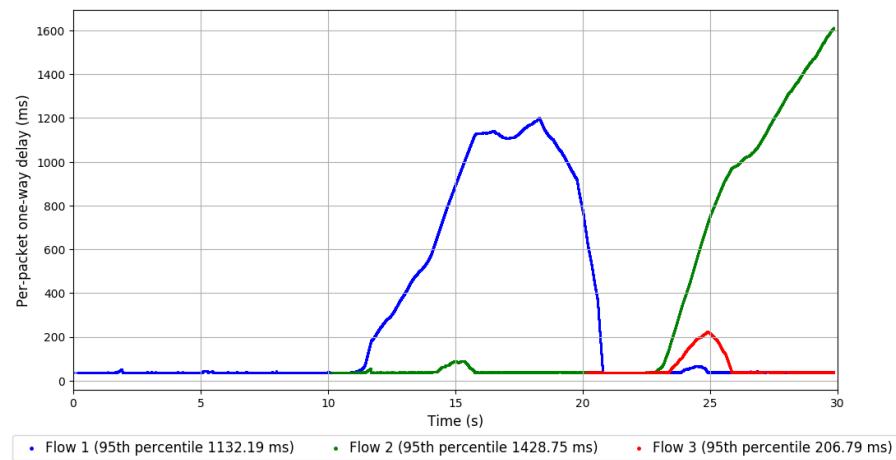
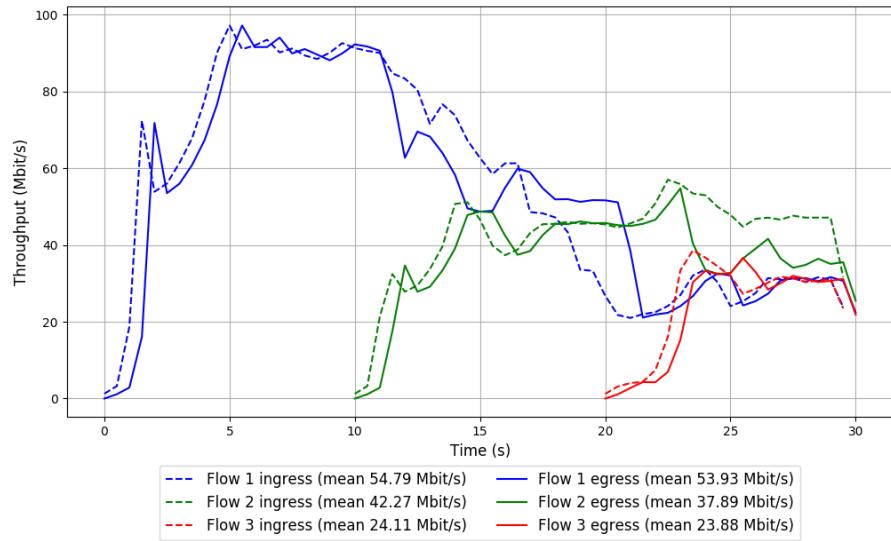


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-02-05 19:47:23
End at: 2019-02-05 19:47:53
Local clock offset: -0.116 ms
Remote clock offset: -4.304 ms

# Below is generated by plot.py at 2019-02-05 20:38:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.96 Mbit/s
95th percentile per-packet one-way delay: 1152.426 ms
Loss rate: 4.51%
-- Flow 1:
Average throughput: 53.93 Mbit/s
95th percentile per-packet one-way delay: 1132.194 ms
Loss rate: 1.77%
-- Flow 2:
Average throughput: 37.89 Mbit/s
95th percentile per-packet one-way delay: 1428.752 ms
Loss rate: 10.68%
-- Flow 3:
Average throughput: 23.88 Mbit/s
95th percentile per-packet one-way delay: 206.786 ms
Loss rate: 1.60%
```

Run 4: Report of PCC-Vivace — Data Link

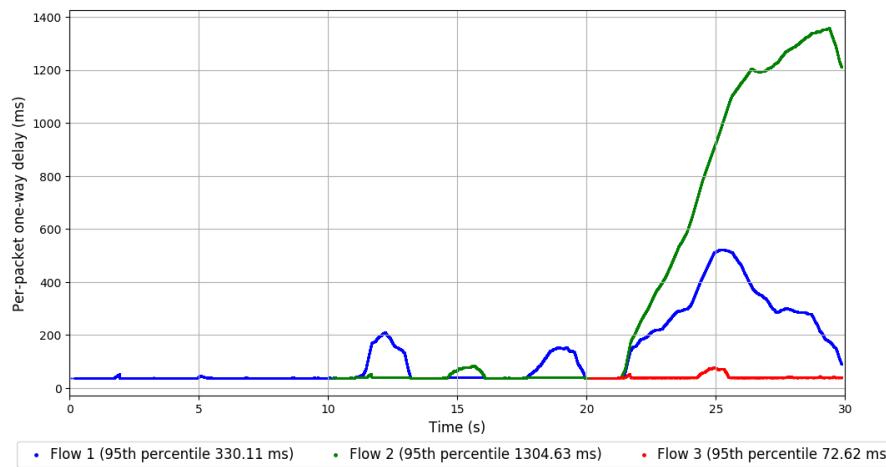
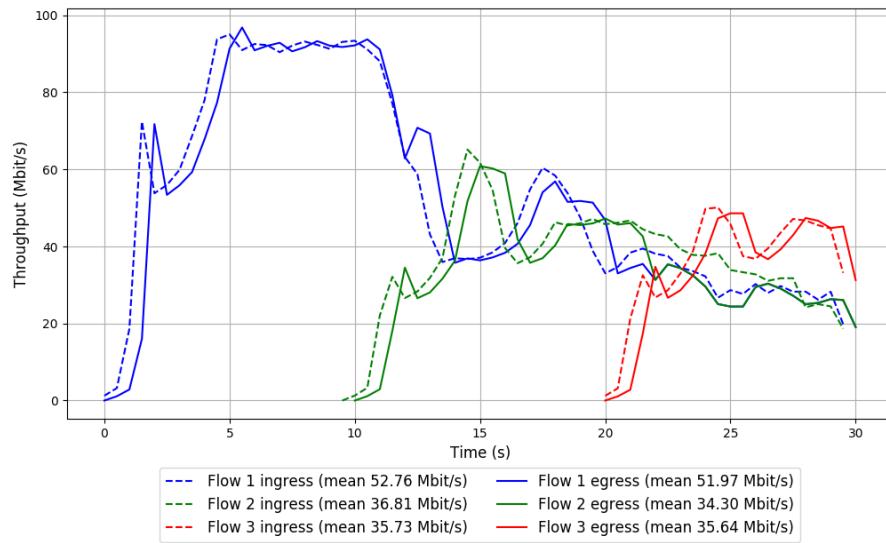


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-02-05 20:13:27
End at: 2019-02-05 20:13:57
Local clock offset: 0.143 ms
Remote clock offset: -4.096 ms

# Below is generated by plot.py at 2019-02-05 20:38:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.49 Mbit/s
95th percentile per-packet one-way delay: 928.221 ms
Loss rate: 3.08%
-- Flow 1:
Average throughput: 51.97 Mbit/s
95th percentile per-packet one-way delay: 330.107 ms
Loss rate: 1.69%
-- Flow 2:
Average throughput: 34.30 Mbit/s
95th percentile per-packet one-way delay: 1304.629 ms
Loss rate: 7.12%
-- Flow 3:
Average throughput: 35.64 Mbit/s
95th percentile per-packet one-way delay: 72.619 ms
Loss rate: 0.91%
```

Run 5: Report of PCC-Vivace — Data Link

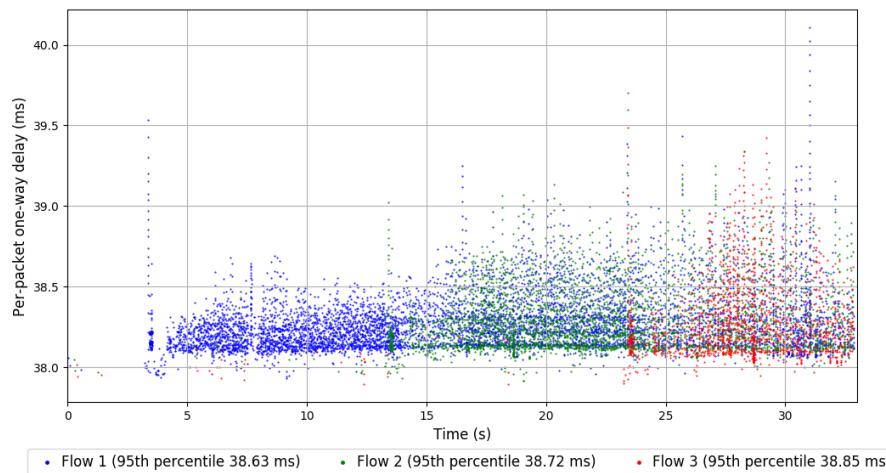
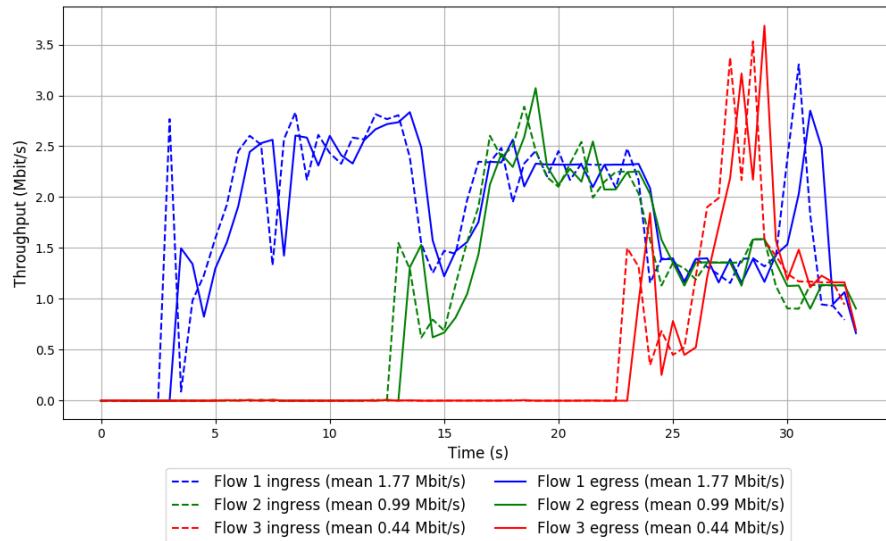


```
Run 1: Statistics of WebRTC media

Start at: 2019-02-05 18:13:37
End at: 2019-02-05 18:14:07
Local clock offset: 3.452 ms
Remote clock offset: -8.781 ms

# Below is generated by plot.py at 2019-02-05 20:38:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.20 Mbit/s
95th percentile per-packet one-way delay: 38.695 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 1.77 Mbit/s
95th percentile per-packet one-way delay: 38.634 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 0.99 Mbit/s
95th percentile per-packet one-way delay: 38.721 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 38.850 ms
Loss rate: 0.87%
```

Run 1: Report of WebRTC media — Data Link

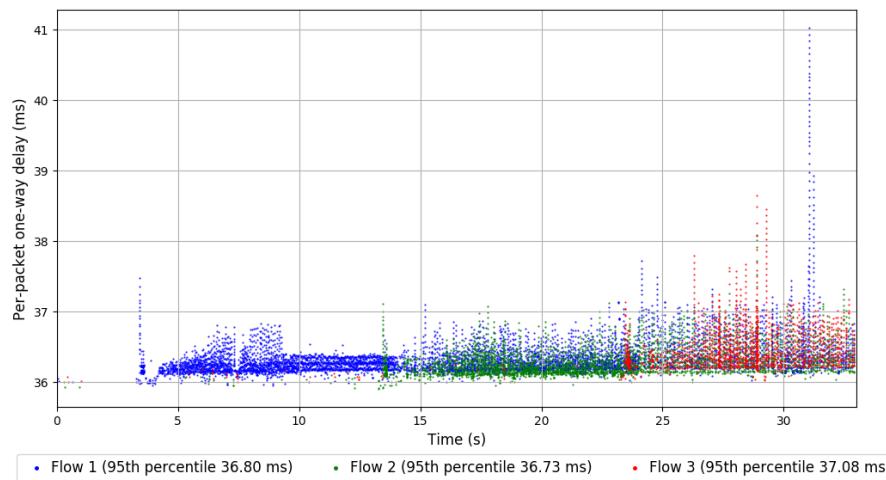
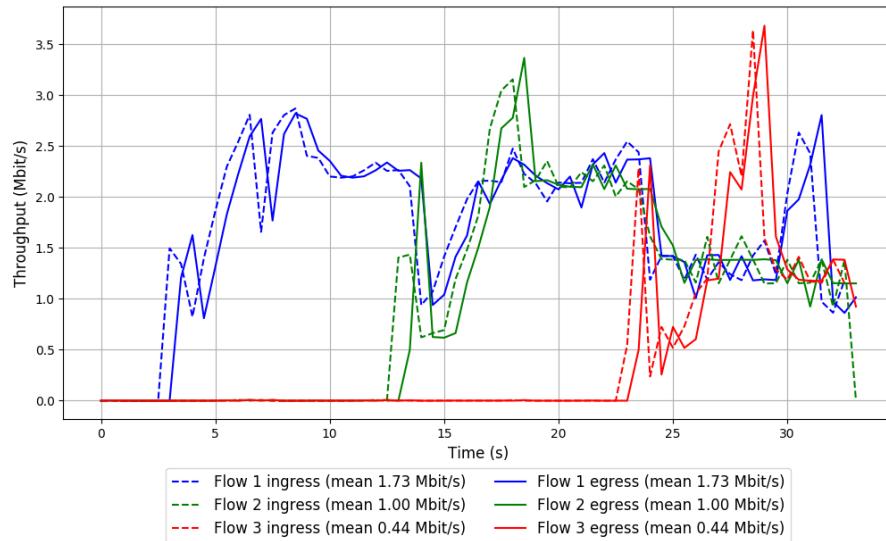


Run 2: Statistics of WebRTC media

```
Start at: 2019-02-05 18:39:29
End at: 2019-02-05 18:39:59
Local clock offset: -0.475 ms
Remote clock offset: -5.524 ms

# Below is generated by plot.py at 2019-02-05 20:38:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.16 Mbit/s
95th percentile per-packet one-way delay: 36.836 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 1.73 Mbit/s
95th percentile per-packet one-way delay: 36.795 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 1.00 Mbit/s
95th percentile per-packet one-way delay: 36.732 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 37.076 ms
Loss rate: 0.80%
```

Run 2: Report of WebRTC media — Data Link

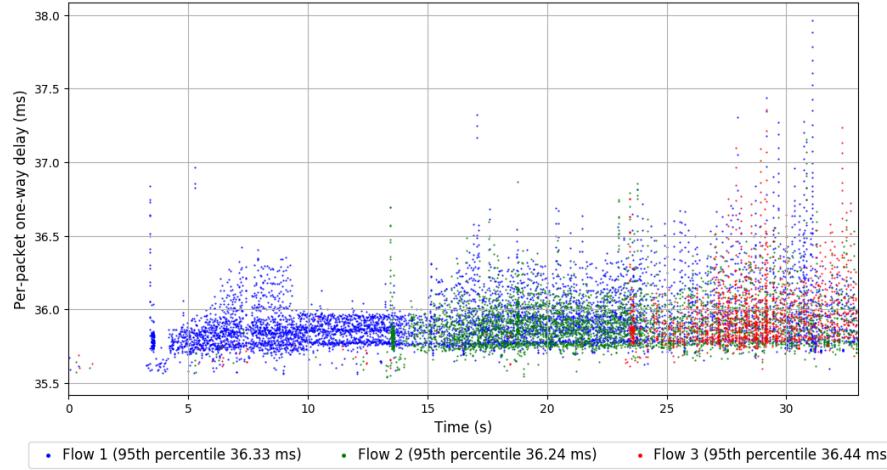
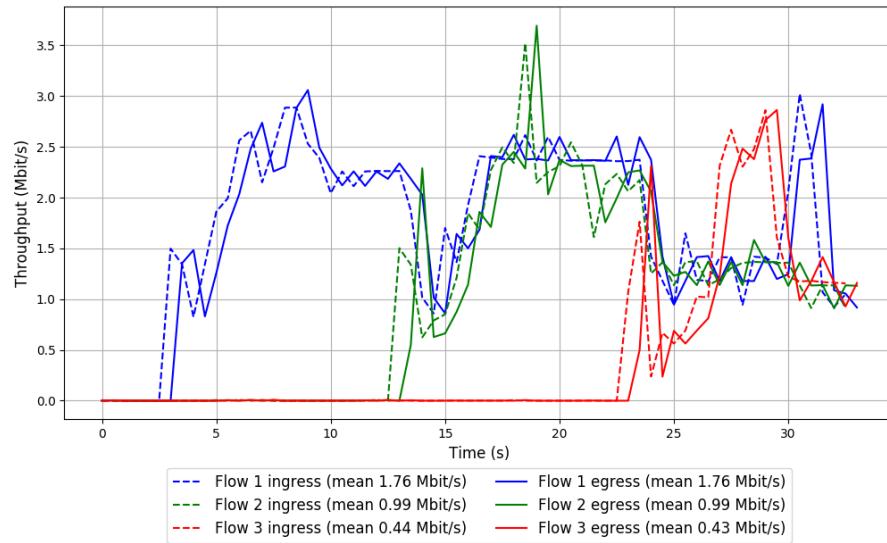


```
Run 3: Statistics of WebRTC media

Start at: 2019-02-05 19:05:11
End at: 2019-02-05 19:05:41
Local clock offset: -0.331 ms
Remote clock offset: -3.801 ms

# Below is generated by plot.py at 2019-02-05 20:38:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.16 Mbit/s
95th percentile per-packet one-way delay: 36.319 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 1.76 Mbit/s
95th percentile per-packet one-way delay: 36.329 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 0.99 Mbit/s
95th percentile per-packet one-way delay: 36.236 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 36.439 ms
Loss rate: 0.81%
```

Run 3: Report of WebRTC media — Data Link

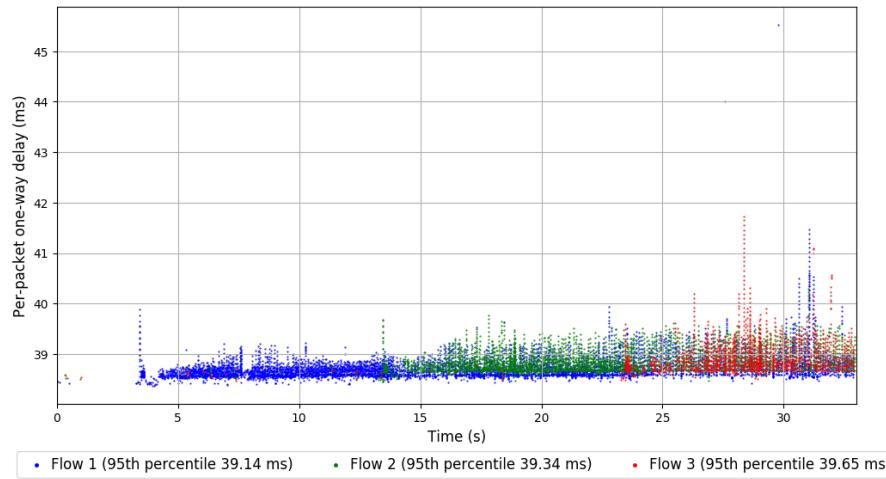
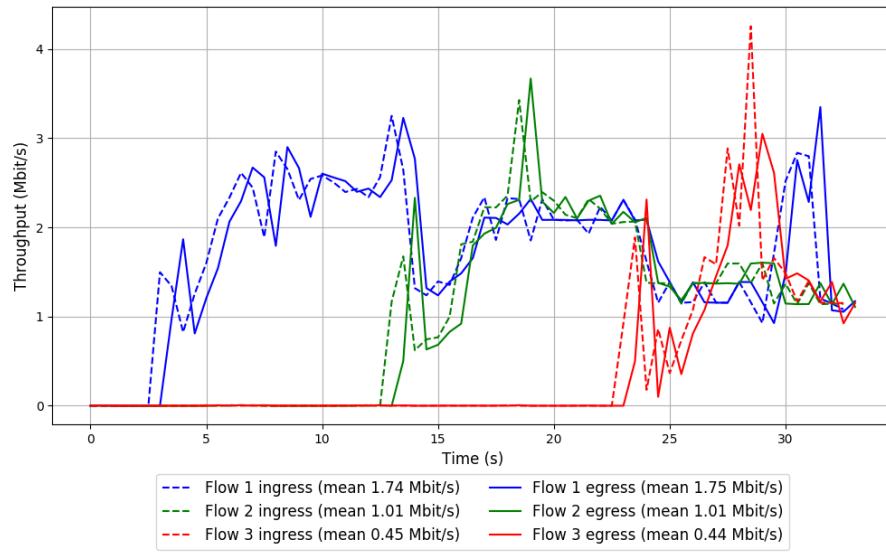


Run 4: Statistics of WebRTC media

```
Start at: 2019-02-05 19:31:18
End at: 2019-02-05 19:31:48
Local clock offset: -0.094 ms
Remote clock offset: -5.608 ms

# Below is generated by plot.py at 2019-02-05 20:38:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.18 Mbit/s
95th percentile per-packet one-way delay: 39.317 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 1.75 Mbit/s
95th percentile per-packet one-way delay: 39.144 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 1.01 Mbit/s
95th percentile per-packet one-way delay: 39.338 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 39.645 ms
Loss rate: 0.79%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-02-05 19:57:38
End at: 2019-02-05 19:58:08
Local clock offset: 0.162 ms
Remote clock offset: -4.83 ms

# Below is generated by plot.py at 2019-02-05 20:38:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.06 Mbit/s
95th percentile per-packet one-way delay: 39.079 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 1.70 Mbit/s
95th percentile per-packet one-way delay: 39.009 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 0.97 Mbit/s
95th percentile per-packet one-way delay: 39.151 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 39.114 ms
Loss rate: 0.87%
```

Run 5: Report of WebRTC media — Data Link

