

## Pantheon Report

Generated at 2019-11-24 09:59:21 (UTC).

Data path: AWS Brazil 2 on `ens5` (*local*) → Colombia on `p4p1` (*remote*).

Repeated the test of 24 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 `gps.ntp.br` and have been applied to correct the timestamps in logs.

### System info:

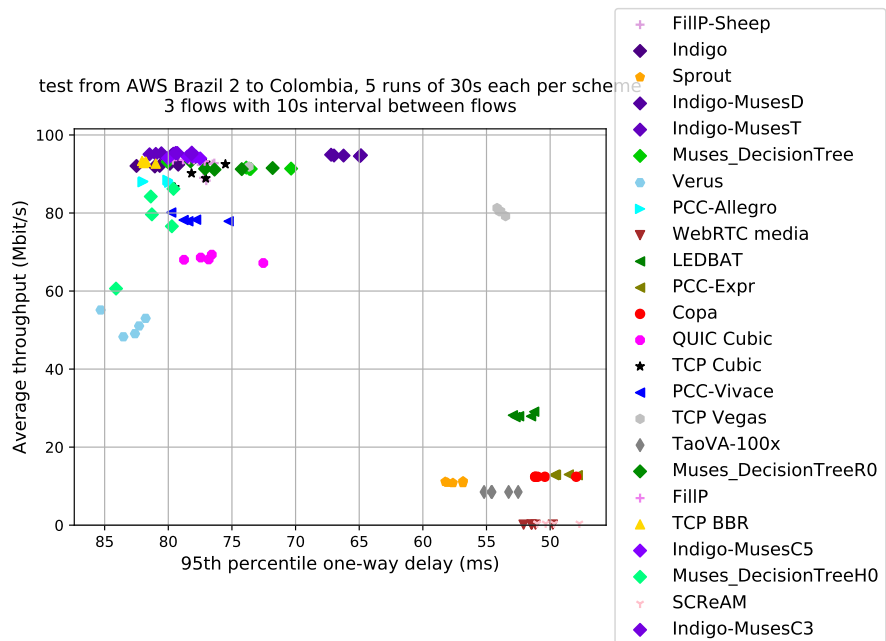
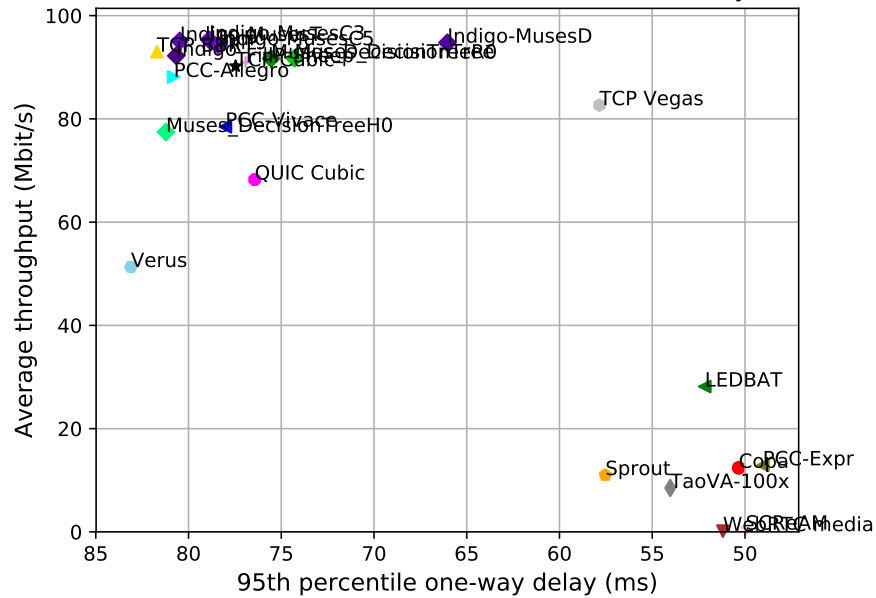
```
Linux 4.15.0-1051-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 387225f7b5f61ddbe92d708a8869ffbb84eb3200
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
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-quick @ 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 AWS Brazil 2 to Colombia, 5 runs of 30s each per scheme  
3 flows with 10s interval between flows (mean of all runs by scheme)



| 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      | 54.60                  | 40.63  | 34.09  | 81.16                     | 80.66  | 81.06  | 12.04              | 18.14  | 21.69  |
| Copa                 | 5      | 7.86                   | 6.28   | 1.13   | 50.46                     | 49.54  | 49.90  | 70.42              | 81.44  | 84.23  |
| TCP Cubic            | 5      | 69.55                  | 20.95  | 20.17  | 77.20                     | 78.69  | 74.92  | 0.65               | 0.21   | 0.24   |
| FillP                | 5      | 58.07                  | 38.23  | 30.25  | 77.87                     | 78.42  | 78.26  | 14.24              | 25.80  | 26.35  |
| FillP-Sheep          | 5      | 52.20                  | 42.84  | 31.04  | 76.86                     | 76.54  | 77.01  | 5.80               | 11.46  | 11.95  |
| Indigo               | 5      | 62.78                  | 33.10  | 23.38  | 80.70                     | 80.22  | 80.42  | 2.76               | 10.82  | 17.43  |
| Indigo-MusesC3       | 5      | 49.93                  | 48.57  | 47.55  | 77.26                     | 78.68  | 79.10  | 1.57               | 2.14   | 4.19   |
| Indigo-MusesC5       | 5      | 54.31                  | 58.22  | 7.49   | 77.07                     | 78.94  | 80.34  | 1.55               | 3.07   | 4.62   |
| Indigo-MusesD        | 5      | 55.71                  | 46.08  | 31.42  | 64.45                     | 65.28  | 72.37  | 0.05               | 0.01   | 0.16   |
| Indigo-MusesT        | 5      | 56.72                  | 44.82  | 32.06  | 79.98                     | 80.28  | 79.75  | 4.34               | 4.85   | 6.66   |
| LEDBAT               | 5      | 18.13                  | 12.16  | 5.82   | 51.93                     | 51.56  | 52.16  | 0.00               | 0.00   | 0.00   |
| Muses_DecisionTree   | 5      | 58.89                  | 30.36  | 39.38  | 72.12                     | 74.28  | 76.25  | 1.37               | 1.39   | 3.09   |
| Muses_DecisionTreeH0 | 5      | 64.55                  | 15.59  | 8.08   | 80.86                     | 81.09  | 79.91  | 38.32              | 43.21  | 26.29  |
| Muses_DecisionTreeR0 | 5      | 60.83                  | 27.07  | 39.99  | 73.35                     | 75.62  | 79.66  | 0.78               | 1.05   | 1.76   |
| PCC-Allegro          | 5      | 81.45                  | 5.98   | 8.17   | 80.77                     | 80.99  | 80.65  | 2.76               | 4.57   | 5.80   |
| PCC-Expr             | 5      | 7.93                   | 6.30   | 2.36   | 48.30                     | 48.33  | 49.12  | 56.73              | 40.65  | 46.08  |
| QUIC Cubic           | 5      | 44.14                  | 29.42  | 13.94  | 76.52                     | 75.88  | 73.49  | 1.28               | 0.40   | 0.79   |
| SCReAM               | 5      | 0.22                   | 0.22   | 0.22   | 49.60                     | 49.81  | 49.03  | 0.00               | 0.00   | 0.00   |
| Sprout               | 5      | 5.57                   | 5.55   | 5.26   | 57.64                     | 57.41  | 56.75  | 0.00               | 0.00   | 0.00   |
| TaoVA-100x           | 5      | 0.00                   | 9.02   | 7.50   | 50.23                     | 58.70  | 49.62  | 95.92              | 21.61  | 66.14  |
| TCP Vegas            | 5      | 57.26                  | 20.00  | 36.31  | 57.68                     | 60.20  | 56.14  | 0.68               | 0.32   | 0.88   |
| Verus                | 5      | 36.80                  | 16.22  | 11.94  | 82.85                     | 81.71  | 80.80  | 62.27              | 40.06  | 30.52  |
| PCC-Vivace           | 5      | 63.43                  | 17.99  | 9.34   | 78.06                     | 77.78  | 75.72  | 0.28               | 0.49   | 0.48   |
| WebRTC media         | 5      | 0.05                   | 0.05   | 0.05   | 50.69                     | 50.73  | 50.36  | 0.00               | 0.00   | 0.02   |

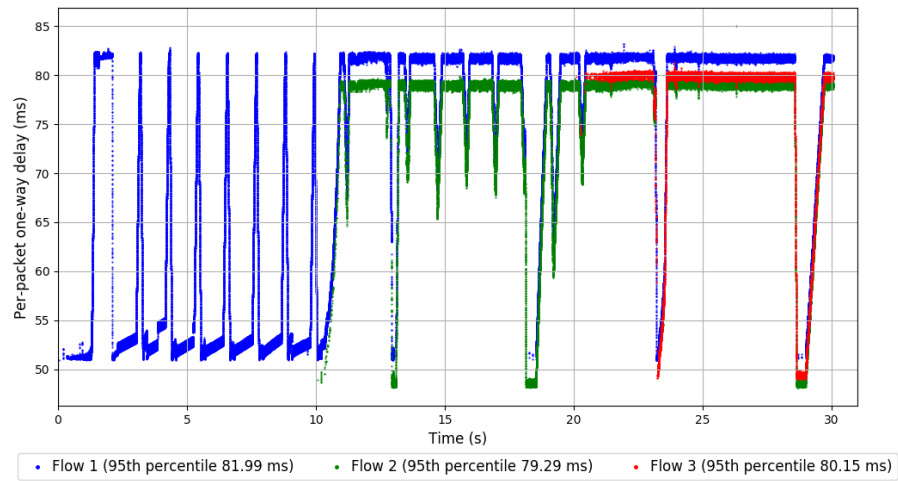
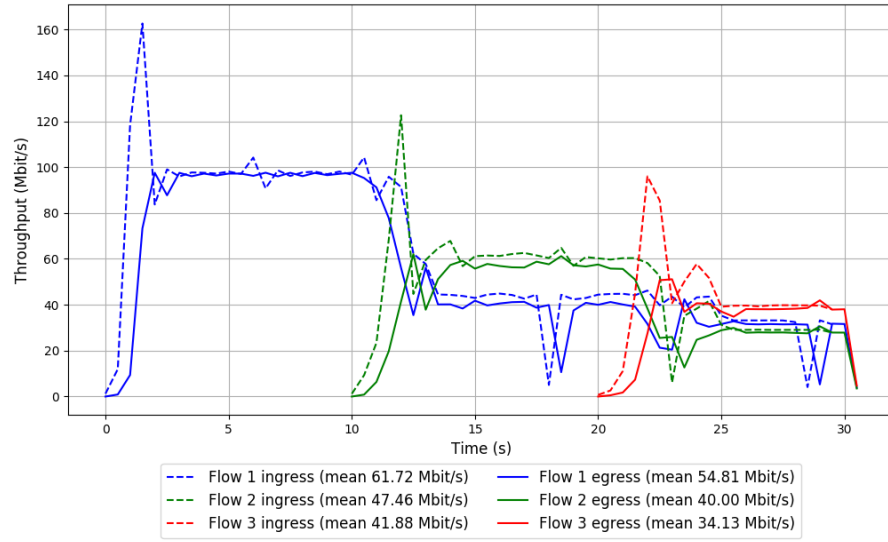


Run 1: Statistics of TCP BBR

Start at: 2019-11-24 07:26:30  
End at: 2019-11-24 07:27:00  
Local clock offset: -0.868 ms  
Remote clock offset: -7.851 ms

# Below is generated by plot.py at 2019-11-24 09:47:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.80 Mbit/s  
95th percentile per-packet one-way delay: 81.931 ms  
Loss rate: 13.40%  
-- Flow 1:  
Average throughput: 54.81 Mbit/s  
95th percentile per-packet one-way delay: 81.991 ms  
Loss rate: 11.12%  
-- Flow 2:  
Average throughput: 40.00 Mbit/s  
95th percentile per-packet one-way delay: 79.287 ms  
Loss rate: 15.61%  
-- Flow 3:  
Average throughput: 34.13 Mbit/s  
95th percentile per-packet one-way delay: 80.151 ms  
Loss rate: 18.51%

# Run 1: Report of TCP BBR — Data Link

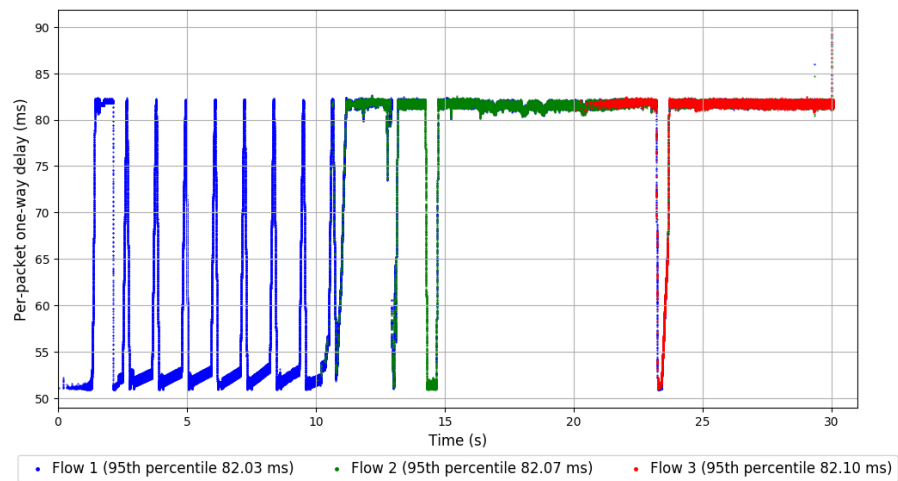
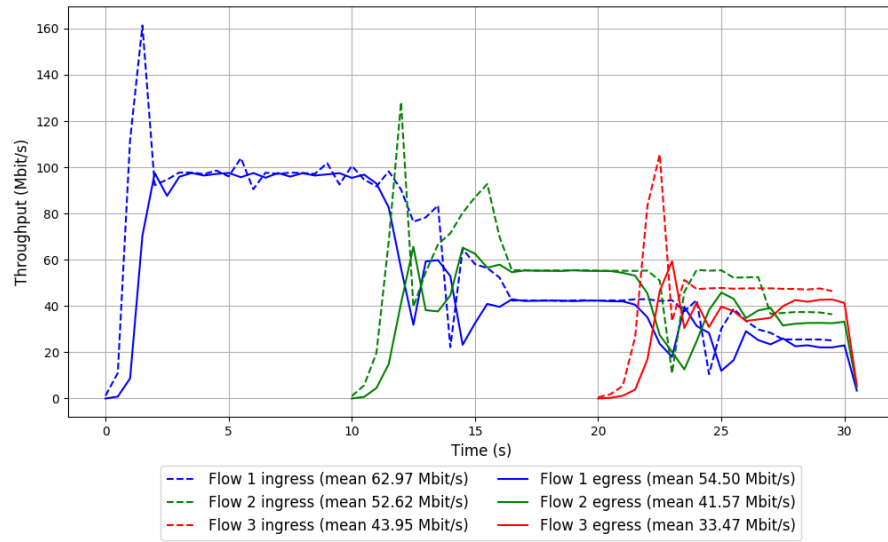


Run 2: Statistics of TCP BBR

Start at: 2019-11-24 07:56:25  
End at: 2019-11-24 07:56:55  
Local clock offset: 0.758 ms  
Remote clock offset: -6.577 ms

# Below is generated by plot.py at 2019-11-24 09:47:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.34 Mbit/s  
95th percentile per-packet one-way delay: 82.056 ms  
Loss rate: 17.06%  
-- Flow 1:  
Average throughput: 54.50 Mbit/s  
95th percentile per-packet one-way delay: 82.025 ms  
Loss rate: 13.35%  
-- Flow 2:  
Average throughput: 41.57 Mbit/s  
95th percentile per-packet one-way delay: 82.072 ms  
Loss rate: 20.88%  
-- Flow 3:  
Average throughput: 33.47 Mbit/s  
95th percentile per-packet one-way delay: 82.103 ms  
Loss rate: 23.84%

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

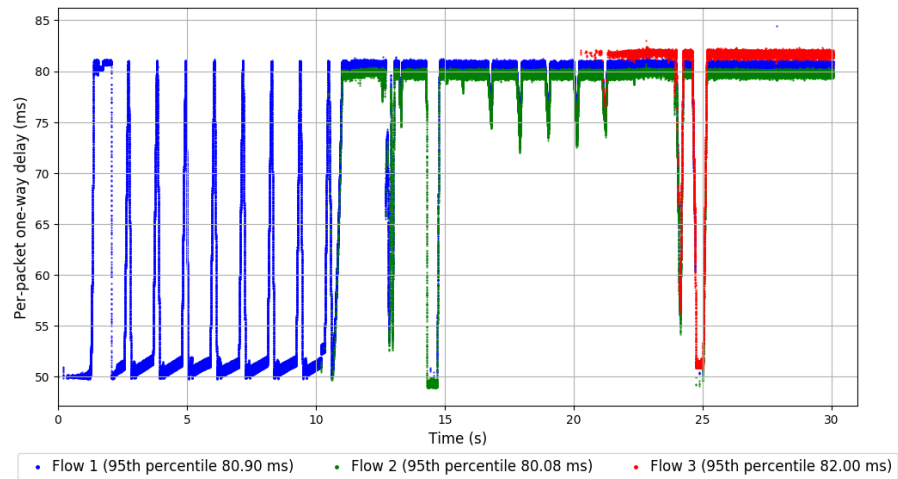
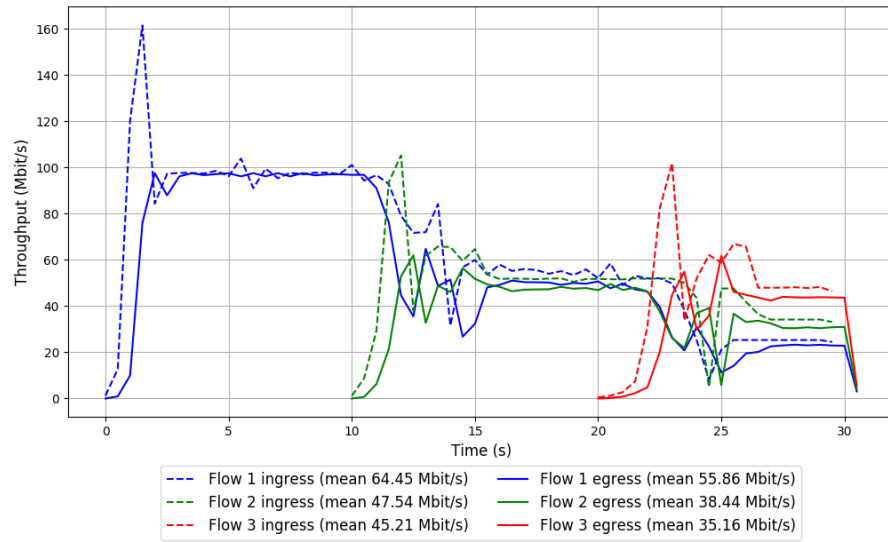


Run 3: Statistics of TCP BBR

Start at: 2019-11-24 08:26:23  
End at: 2019-11-24 08:26:53  
Local clock offset: -1.177 ms  
Remote clock offset: -7.405 ms

# Below is generated by plot.py at 2019-11-24 09:47:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.16 Mbit/s  
95th percentile per-packet one-way delay: 81.779 ms  
Loss rate: 16.09%  
-- Flow 1:  
Average throughput: 55.86 Mbit/s  
95th percentile per-packet one-way delay: 80.896 ms  
Loss rate: 13.24%  
-- Flow 2:  
Average throughput: 38.44 Mbit/s  
95th percentile per-packet one-way delay: 80.079 ms  
Loss rate: 19.01%  
-- Flow 3:  
Average throughput: 35.16 Mbit/s  
95th percentile per-packet one-way delay: 81.996 ms  
Loss rate: 22.19%

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

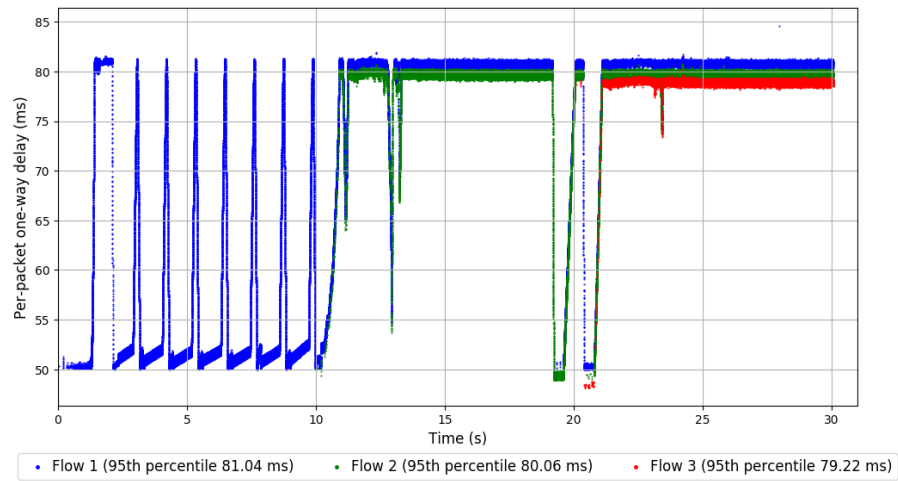
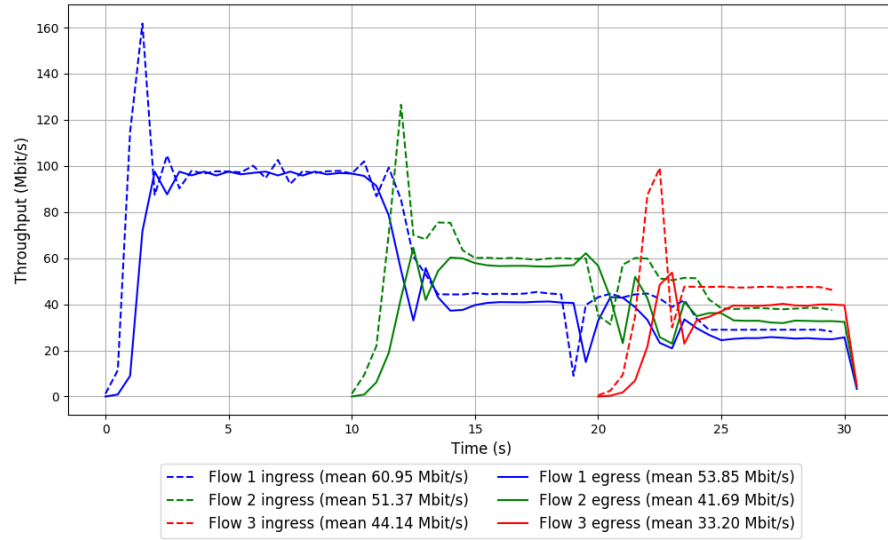


Run 4: Statistics of TCP BBR

Start at: 2019-11-24 08:56:22  
End at: 2019-11-24 08:56:52  
Local clock offset: -0.867 ms  
Remote clock offset: -8.363 ms

# Below is generated by plot.py at 2019-11-24 09:47:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.65 Mbit/s  
95th percentile per-packet one-way delay: 80.989 ms  
Loss rate: 15.56%  
-- Flow 1:  
Average throughput: 53.85 Mbit/s  
95th percentile per-packet one-way delay: 81.040 ms  
Loss rate: 11.56%  
-- Flow 2:  
Average throughput: 41.69 Mbit/s  
95th percentile per-packet one-way delay: 80.065 ms  
Loss rate: 18.72%  
-- Flow 3:  
Average throughput: 33.20 Mbit/s  
95th percentile per-packet one-way delay: 79.219 ms  
Loss rate: 24.79%

# Run 4: Report of TCP BBR — Data Link



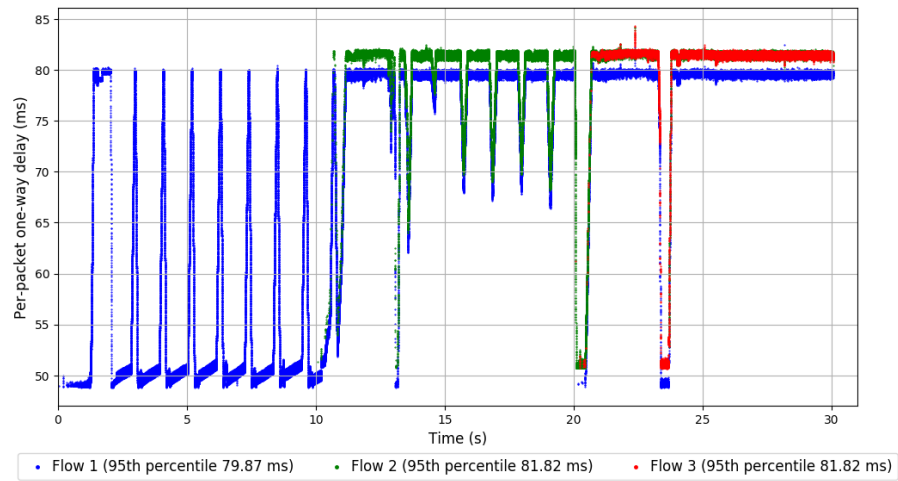
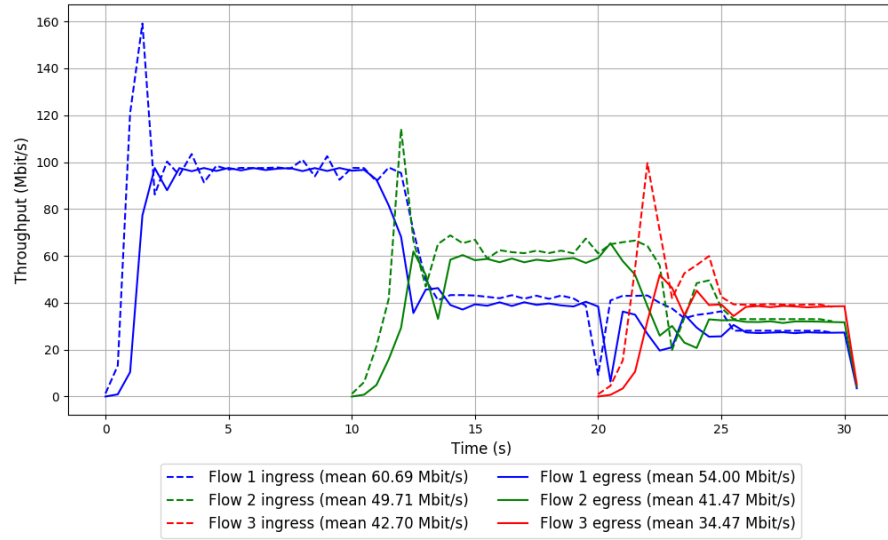


Run 5: Statistics of TCP BBR

Start at: 2019-11-24 09:26:30  
End at: 2019-11-24 09:27:00  
Local clock offset: -0.893 ms  
Remote clock offset: -7.664 ms

# Below is generated by plot.py at 2019-11-24 09:47:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.10 Mbit/s  
95th percentile per-packet one-way delay: 81.748 ms  
Loss rate: 13.71%  
-- Flow 1:  
Average throughput: 54.00 Mbit/s  
95th percentile per-packet one-way delay: 79.868 ms  
Loss rate: 10.93%  
-- Flow 2:  
Average throughput: 41.47 Mbit/s  
95th percentile per-packet one-way delay: 81.818 ms  
Loss rate: 16.47%  
-- Flow 3:  
Average throughput: 34.47 Mbit/s  
95th percentile per-packet one-way delay: 81.818 ms  
Loss rate: 19.12%

# Run 5: Report of TCP BBR — Data Link

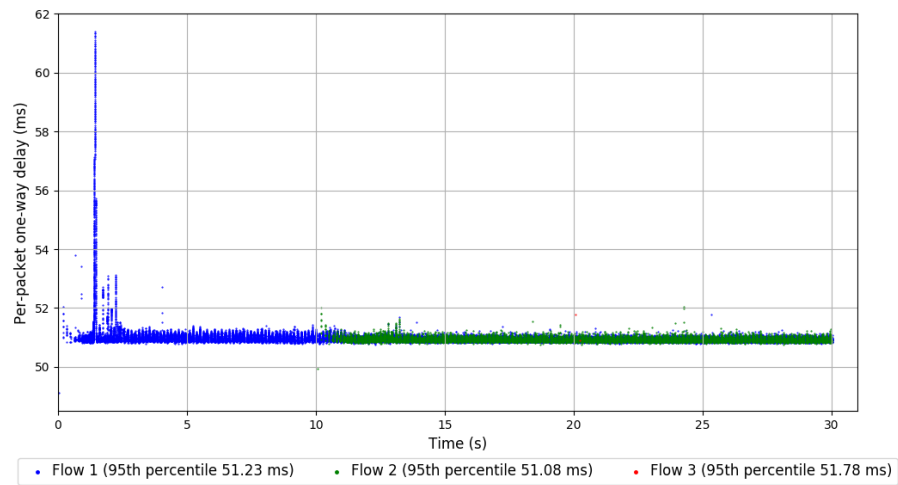
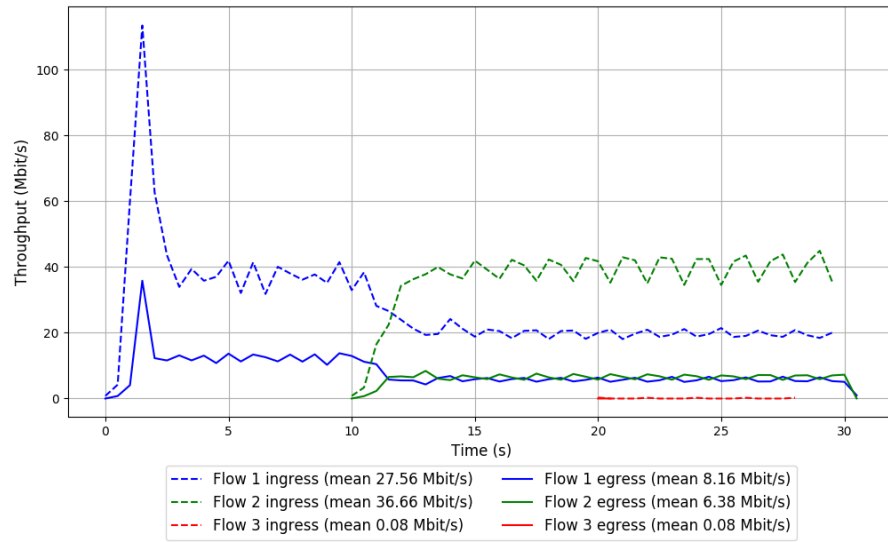


Run 1: Statistics of Copa

Start at: 2019-11-24 07:27:47  
End at: 2019-11-24 07:28:17  
Local clock offset: -0.82 ms  
Remote clock offset: -7.013 ms

# Below is generated by plot.py at 2019-11-24 09:47:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 12.40 Mbit/s  
95th percentile per-packet one-way delay: 51.178 ms  
Loss rate: 76.12%  
-- Flow 1:  
Average throughput: 8.16 Mbit/s  
95th percentile per-packet one-way delay: 51.233 ms  
Loss rate: 70.39%  
-- Flow 2:  
Average throughput: 6.38 Mbit/s  
95th percentile per-packet one-way delay: 51.083 ms  
Loss rate: 82.58%  
-- Flow 3:  
Average throughput: 0.08 Mbit/s  
95th percentile per-packet one-way delay: 51.778 ms  
Loss rate: 97.92%

## Run 1: Report of Copa — Data Link

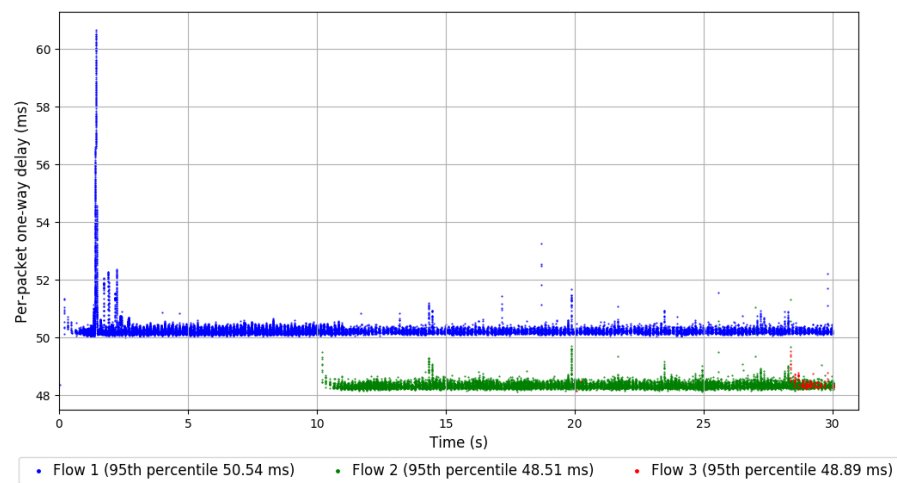
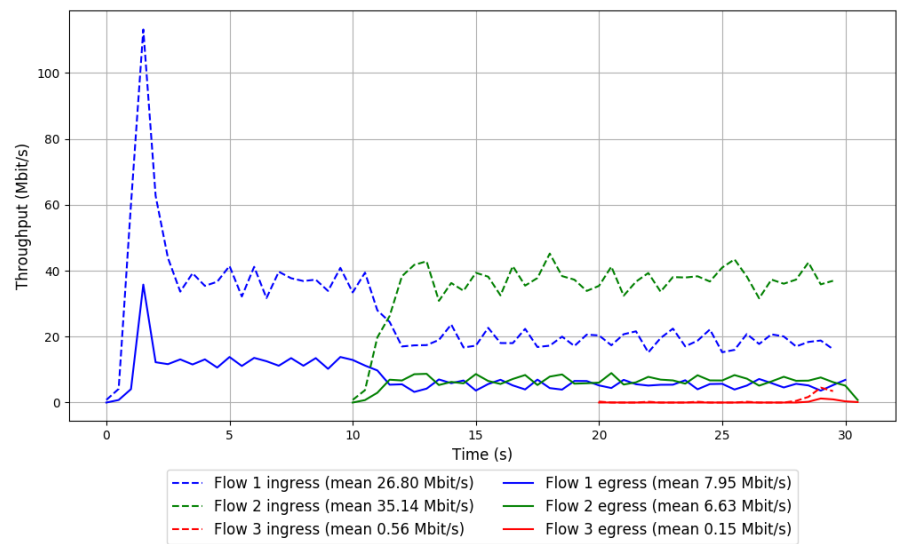


Run 2: Statistics of Copa

Start at: 2019-11-24 07:57:42  
End at: 2019-11-24 07:58:12  
Local clock offset: 0.853 ms  
Remote clock offset: -6.566 ms

# Below is generated by plot.py at 2019-11-24 09:47:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 12.40 Mbit/s  
95th percentile per-packet one-way delay: 50.414 ms  
Loss rate: 75.37%  
-- Flow 1:  
Average throughput: 7.95 Mbit/s  
95th percentile per-packet one-way delay: 50.541 ms  
Loss rate: 70.34%  
-- Flow 2:  
Average throughput: 6.63 Mbit/s  
95th percentile per-packet one-way delay: 48.510 ms  
Loss rate: 81.13%  
-- Flow 3:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 48.891 ms  
Loss rate: 73.59%

Run 2: Report of Copa — Data Link

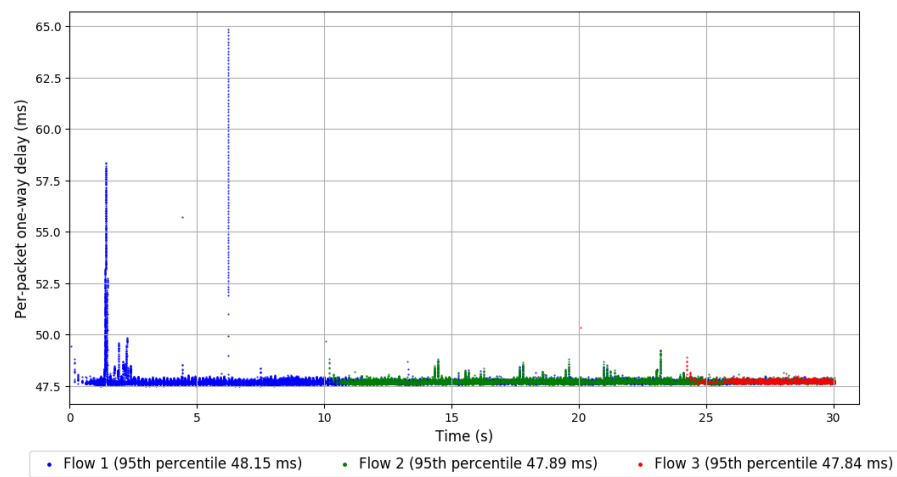
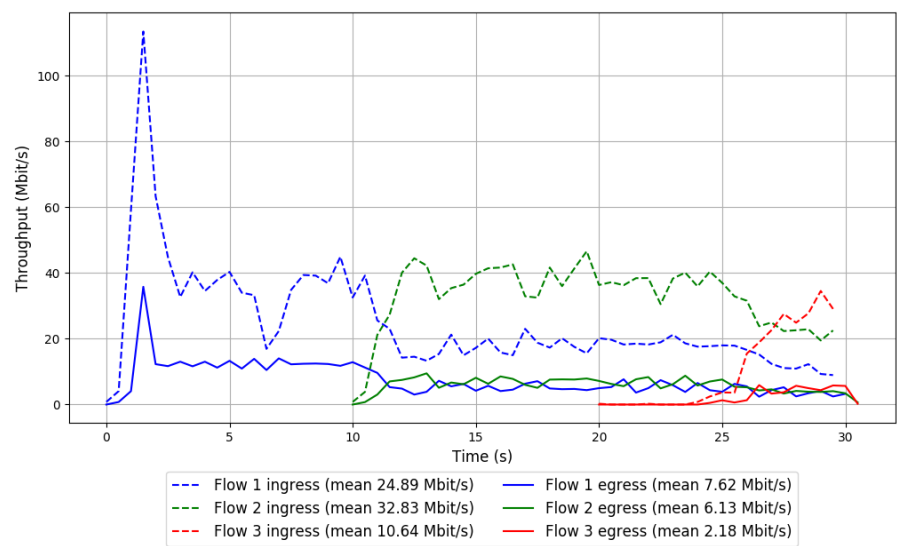


Run 3: Statistics of Copa

Start at: 2019-11-24 08:27:40  
End at: 2019-11-24 08:28:11  
Local clock offset: -0.408 ms  
Remote clock offset: -8.169 ms

# Below is generated by plot.py at 2019-11-24 09:47:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 12.40 Mbit/s  
95th percentile per-packet one-way delay: 47.950 ms  
Loss rate: 75.30%  
-- Flow 1:  
Average throughput: 7.62 Mbit/s  
95th percentile per-packet one-way delay: 48.149 ms  
Loss rate: 69.39%  
-- Flow 2:  
Average throughput: 6.13 Mbit/s  
95th percentile per-packet one-way delay: 47.890 ms  
Loss rate: 81.34%  
-- Flow 3:  
Average throughput: 2.18 Mbit/s  
95th percentile per-packet one-way delay: 47.844 ms  
Loss rate: 79.48%

Run 3: Report of Copa — Data Link



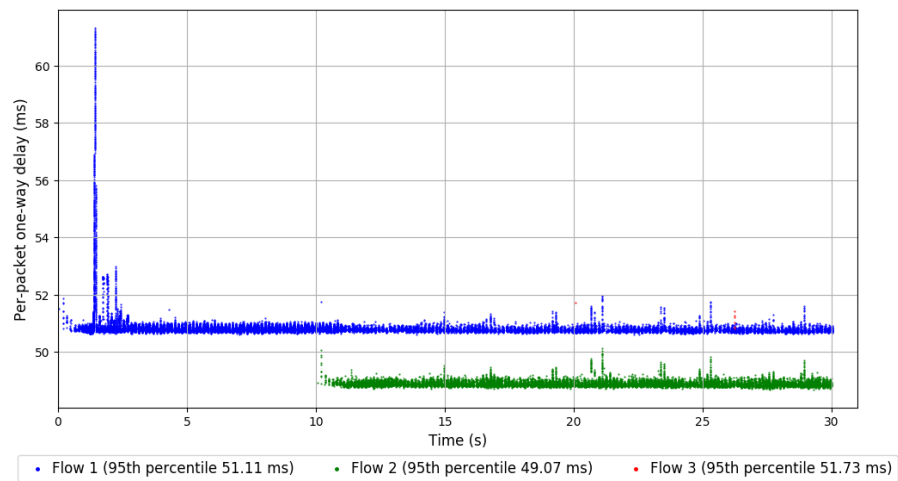
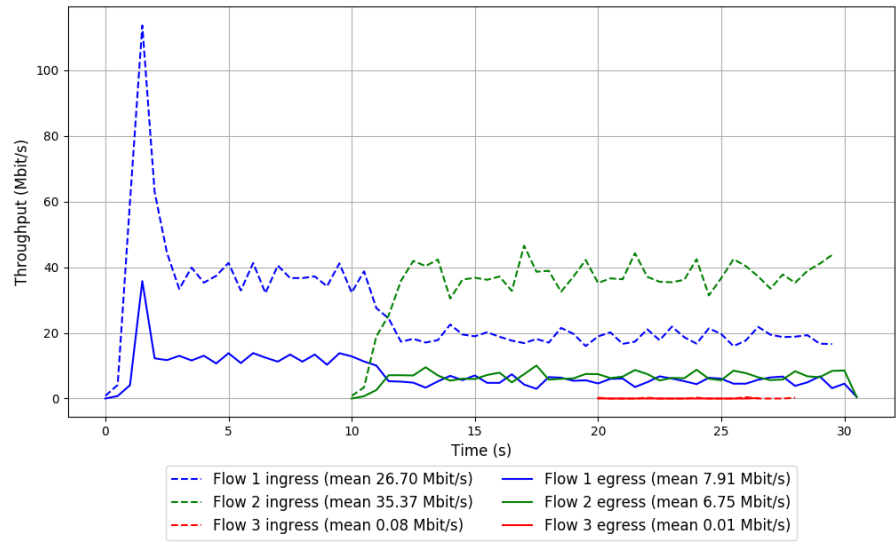


Run 4: Statistics of Copa

Start at: 2019-11-24 08:57:39  
End at: 2019-11-24 08:58:09  
Local clock offset: -1.637 ms  
Remote clock offset: -8.394 ms

# Below is generated by plot.py at 2019-11-24 09:47:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 12.40 Mbit/s  
95th percentile per-packet one-way delay: 50.985 ms  
Loss rate: 75.32%  
-- Flow 1:  
Average throughput: 7.91 Mbit/s  
95th percentile per-packet one-way delay: 51.110 ms  
Loss rate: 70.37%  
-- Flow 2:  
Average throughput: 6.75 Mbit/s  
95th percentile per-packet one-way delay: 49.073 ms  
Loss rate: 80.93%  
-- Flow 3:  
Average throughput: 0.01 Mbit/s  
95th percentile per-packet one-way delay: 51.733 ms  
Loss rate: 89.34%

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

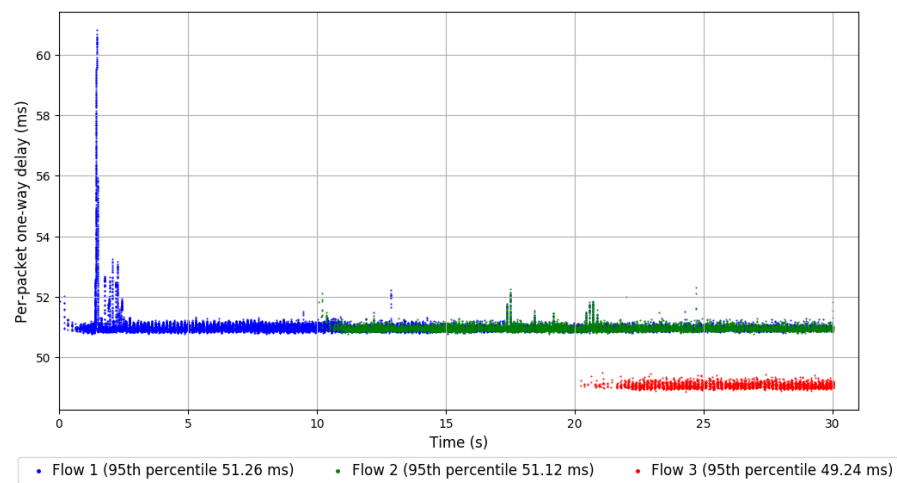
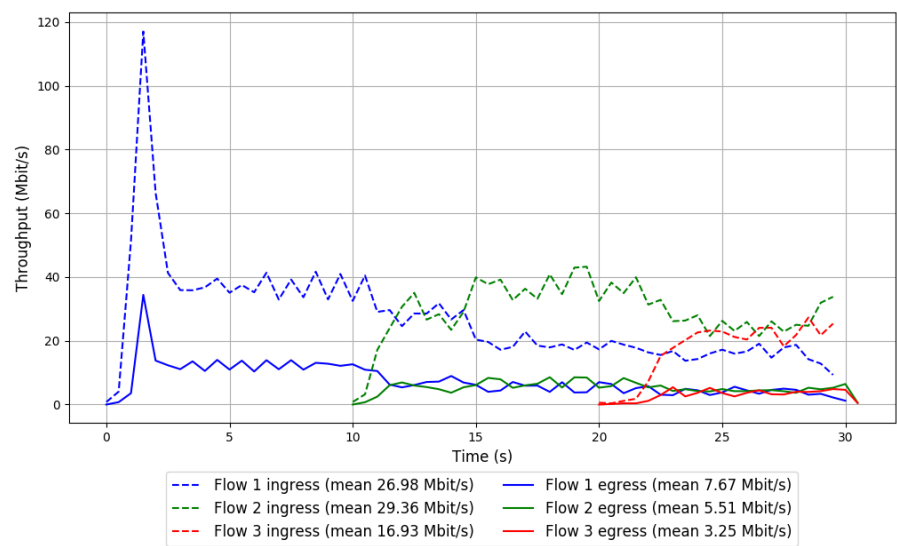


Run 5: Statistics of Copa

Start at: 2019-11-24 09:27:47  
End at: 2019-11-24 09:28:17  
Local clock offset: -0.936 ms  
Remote clock offset: -7.622 ms

# Below is generated by plot.py at 2019-11-24 09:47:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 12.40 Mbit/s  
95th percentile per-packet one-way delay: 51.175 ms  
Loss rate: 76.20%  
-- Flow 1:  
Average throughput: 7.67 Mbit/s  
95th percentile per-packet one-way delay: 51.261 ms  
Loss rate: 71.59%  
-- Flow 2:  
Average throughput: 5.51 Mbit/s  
95th percentile per-packet one-way delay: 51.124 ms  
Loss rate: 81.23%  
-- Flow 3:  
Average throughput: 3.25 Mbit/s  
95th percentile per-packet one-way delay: 49.236 ms  
Loss rate: 80.80%

Run 5: Report of Copa — Data Link

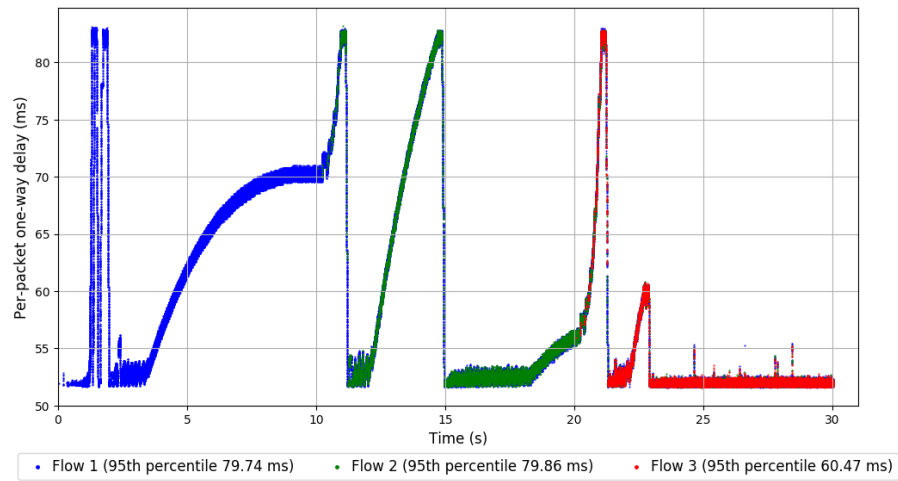
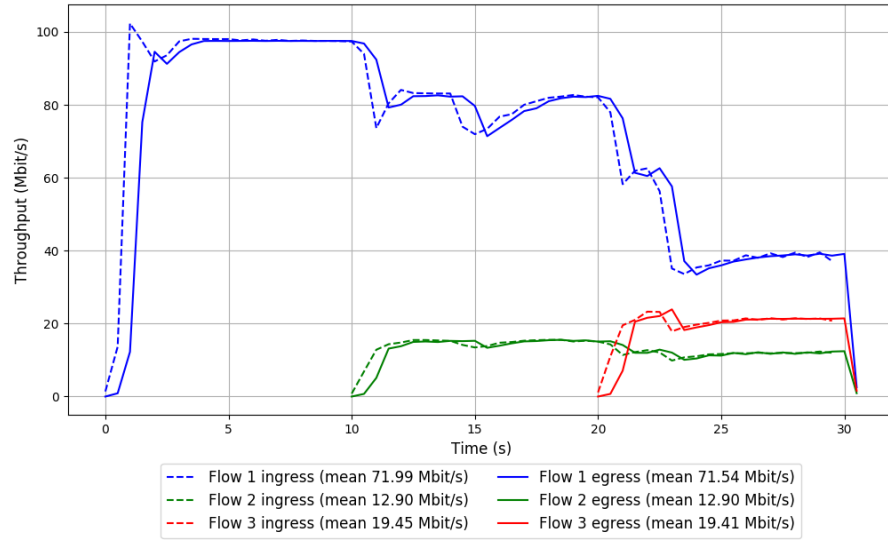


Run 1: Statistics of TCP Cubic

Start at: 2019-11-24 07:15:19  
End at: 2019-11-24 07:15:49  
Local clock offset: -1.241 ms  
Remote clock offset: -8.473 ms

# Below is generated by plot.py at 2019-11-24 09:47:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.57 Mbit/s  
95th percentile per-packet one-way delay: 79.493 ms  
Loss rate: 0.55%  
-- Flow 1:  
Average throughput: 71.54 Mbit/s  
95th percentile per-packet one-way delay: 79.741 ms  
Loss rate: 0.62%  
-- Flow 2:  
Average throughput: 12.90 Mbit/s  
95th percentile per-packet one-way delay: 79.864 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 19.41 Mbit/s  
95th percentile per-packet one-way delay: 60.465 ms  
Loss rate: 0.25%

# Run 1: Report of TCP Cubic — Data Link

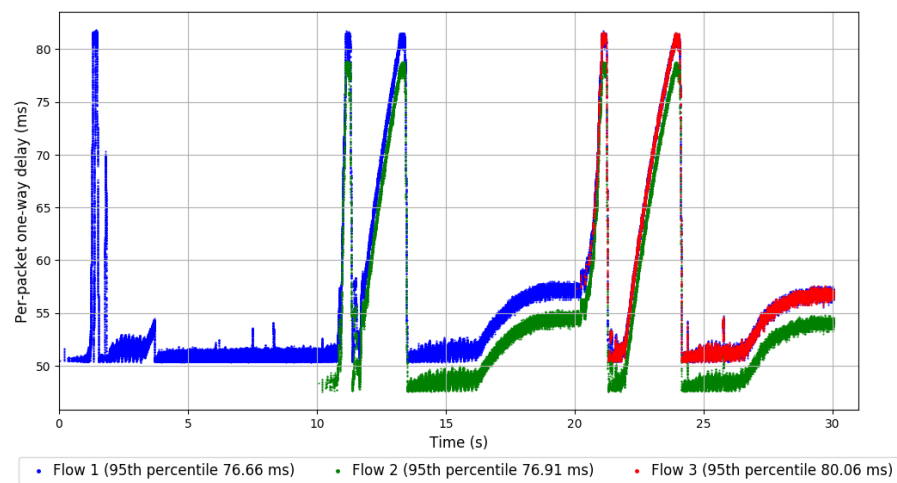
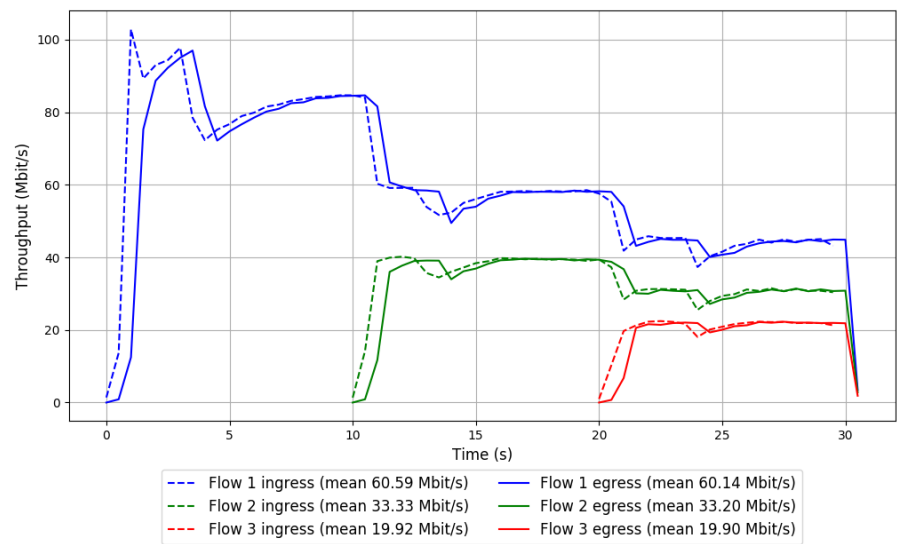


Run 2: Statistics of TCP Cubic

Start at: 2019-11-24 07:45:13  
End at: 2019-11-24 07:45:43  
Local clock offset: 0.454 ms  
Remote clock offset: -6.586 ms

# Below is generated by plot.py at 2019-11-24 09:48:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.87 Mbit/s  
95th percentile per-packet one-way delay: 77.056 ms  
Loss rate: 0.59%  
-- Flow 1:  
Average throughput: 60.14 Mbit/s  
95th percentile per-packet one-way delay: 76.660 ms  
Loss rate: 0.72%  
-- Flow 2:  
Average throughput: 33.20 Mbit/s  
95th percentile per-packet one-way delay: 76.912 ms  
Loss rate: 0.34%  
-- Flow 3:  
Average throughput: 19.90 Mbit/s  
95th percentile per-packet one-way delay: 80.057 ms  
Loss rate: 0.16%

Run 2: Report of TCP Cubic — Data Link



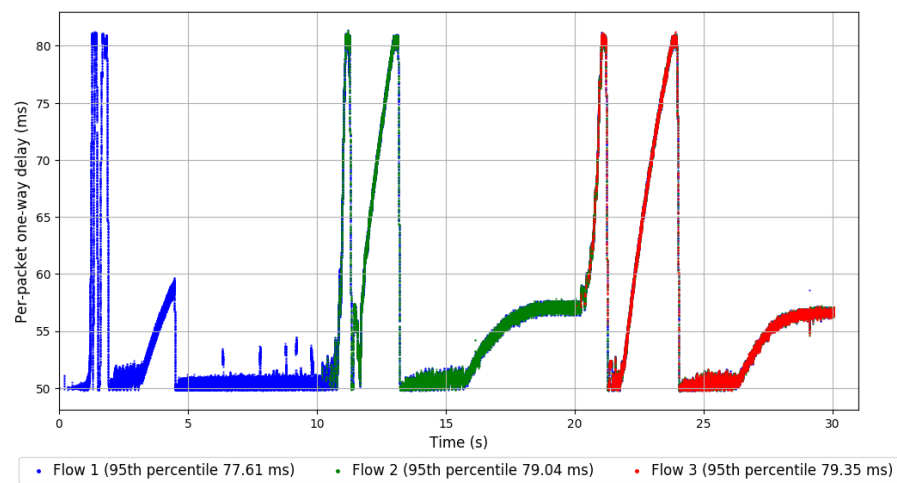
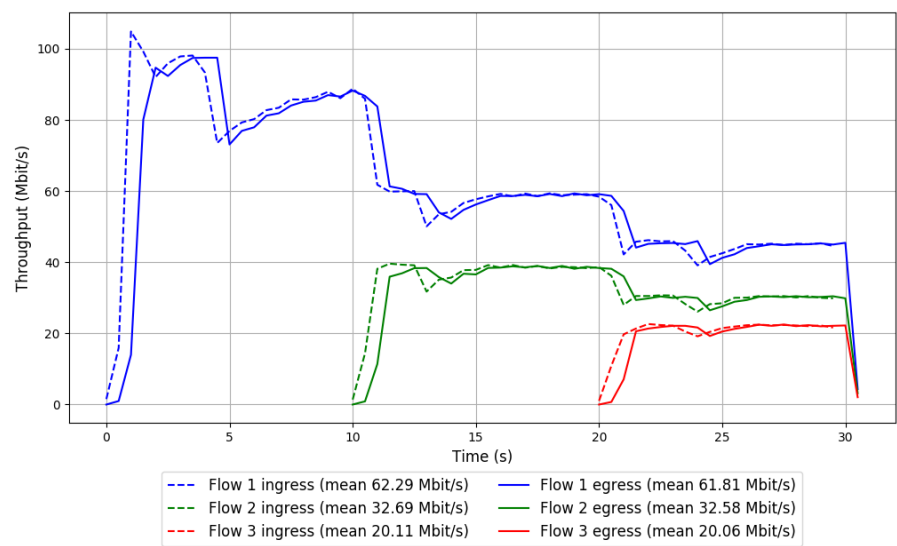


Run 3: Statistics of TCP Cubic

Start at: 2019-11-24 08:15:11  
End at: 2019-11-24 08:15:41  
Local clock offset: -0.53 ms  
Remote clock offset: -6.371 ms

# Below is generated by plot.py at 2019-11-24 09:48:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.18 Mbit/s  
95th percentile per-packet one-way delay: 78.173 ms  
Loss rate: 0.62%  
-- Flow 1:  
Average throughput: 61.81 Mbit/s  
95th percentile per-packet one-way delay: 77.613 ms  
Loss rate: 0.76%  
-- Flow 2:  
Average throughput: 32.58 Mbit/s  
95th percentile per-packet one-way delay: 79.037 ms  
Loss rate: 0.31%  
-- Flow 3:  
Average throughput: 20.06 Mbit/s  
95th percentile per-packet one-way delay: 79.346 ms  
Loss rate: 0.26%

Run 3: Report of TCP Cubic — Data Link

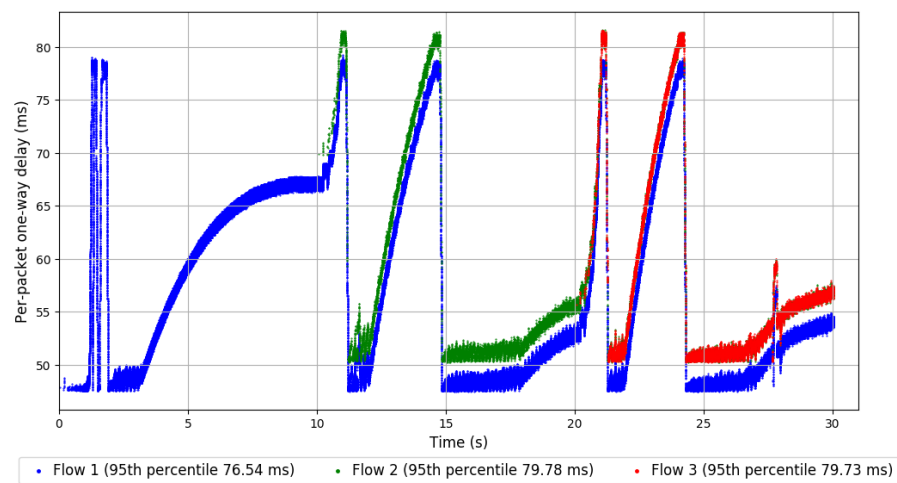
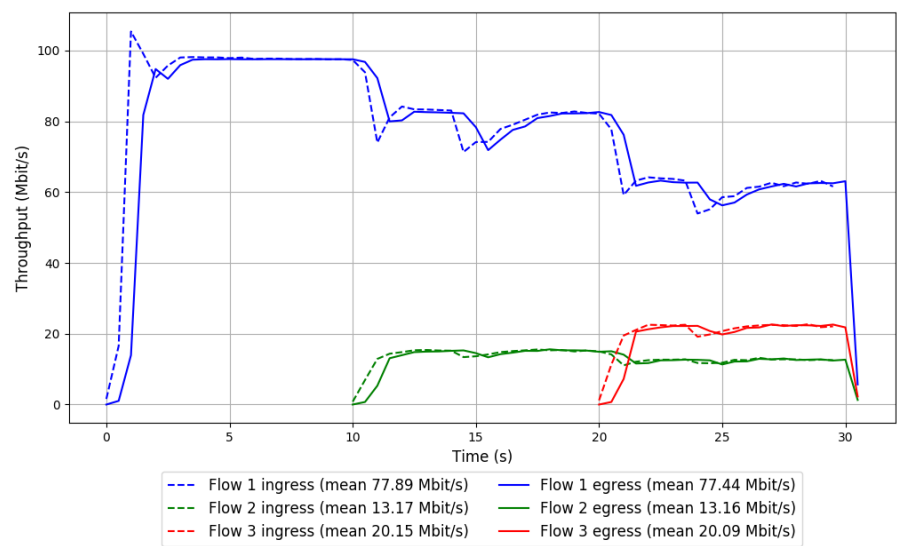


Run 4: Statistics of TCP Cubic

Start at: 2019-11-24 08:45:10  
End at: 2019-11-24 08:45:40  
Local clock offset: -0.738 ms  
Remote clock offset: -9.058 ms

# Below is generated by plot.py at 2019-11-24 09:48:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.88 Mbit/s  
95th percentile per-packet one-way delay: 77.067 ms  
Loss rate: 0.50%  
-- Flow 1:  
Average throughput: 77.44 Mbit/s  
95th percentile per-packet one-way delay: 76.544 ms  
Loss rate: 0.56%  
-- Flow 2:  
Average throughput: 13.16 Mbit/s  
95th percentile per-packet one-way delay: 79.779 ms  
Loss rate: 0.14%  
-- Flow 3:  
Average throughput: 20.09 Mbit/s  
95th percentile per-packet one-way delay: 79.732 ms  
Loss rate: 0.29%

Run 4: Report of TCP Cubic — Data Link

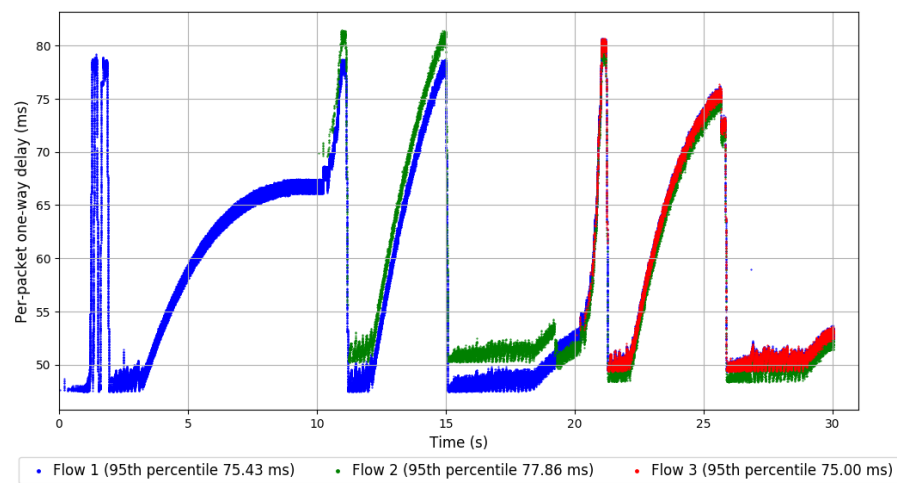
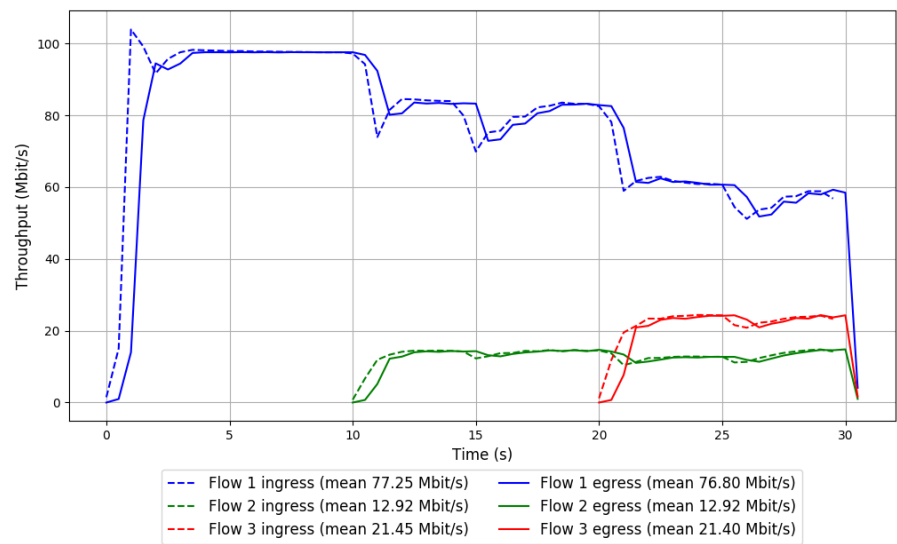


Run 5: Statistics of TCP Cubic

Start at: 2019-11-24 09:15:15  
End at: 2019-11-24 09:15:45  
Local clock offset: -0.533 ms  
Remote clock offset: -8.433 ms

# Below is generated by plot.py at 2019-11-24 09:48:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.51 Mbit/s  
95th percentile per-packet one-way delay: 75.510 ms  
Loss rate: 0.51%  
-- Flow 1:  
Average throughput: 76.80 Mbit/s  
95th percentile per-packet one-way delay: 75.428 ms  
Loss rate: 0.58%  
-- Flow 2:  
Average throughput: 12.92 Mbit/s  
95th percentile per-packet one-way delay: 77.863 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 21.40 Mbit/s  
95th percentile per-packet one-way delay: 74.997 ms  
Loss rate: 0.25%

Run 5: Report of TCP Cubic — Data Link

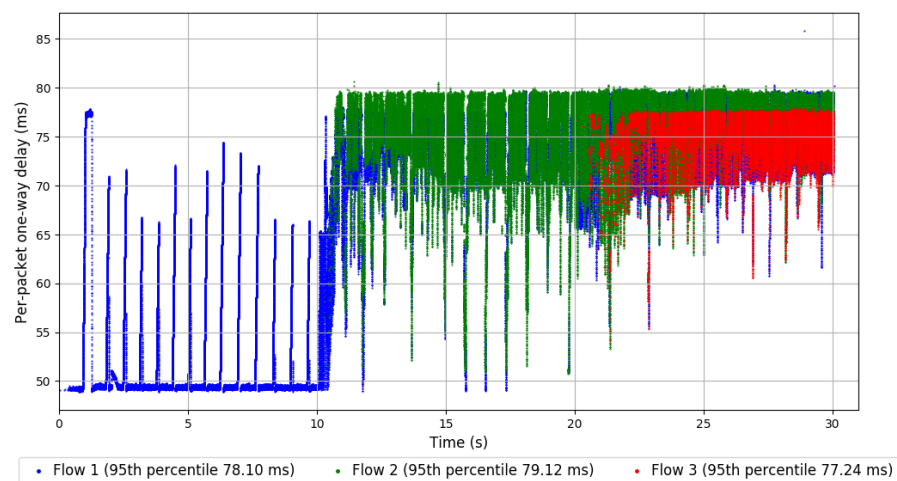
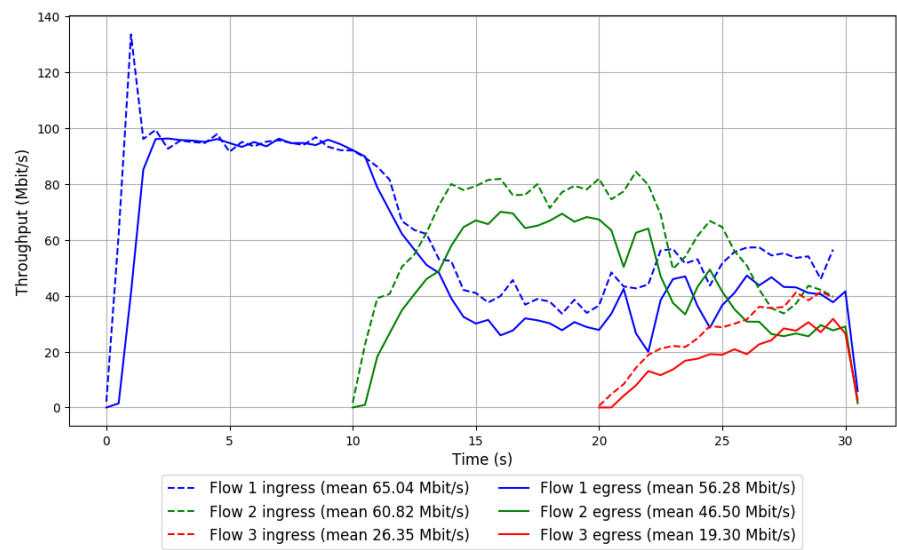


Run 1: Statistics of FillP

Start at: 2019-11-24 07:20:18  
End at: 2019-11-24 07:20:49  
Local clock offset: -1.016 ms  
Remote clock offset: -8.418 ms

# Below is generated by plot.py at 2019-11-24 09:48:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.62 Mbit/s  
95th percentile per-packet one-way delay: 78.846 ms  
Loss rate: 17.97%  
-- Flow 1:  
Average throughput: 56.28 Mbit/s  
95th percentile per-packet one-way delay: 78.099 ms  
Loss rate: 13.39%  
-- Flow 2:  
Average throughput: 46.50 Mbit/s  
95th percentile per-packet one-way delay: 79.118 ms  
Loss rate: 23.43%  
-- Flow 3:  
Average throughput: 19.30 Mbit/s  
95th percentile per-packet one-way delay: 77.237 ms  
Loss rate: 26.78%

Run 1: Report of FillP — Data Link



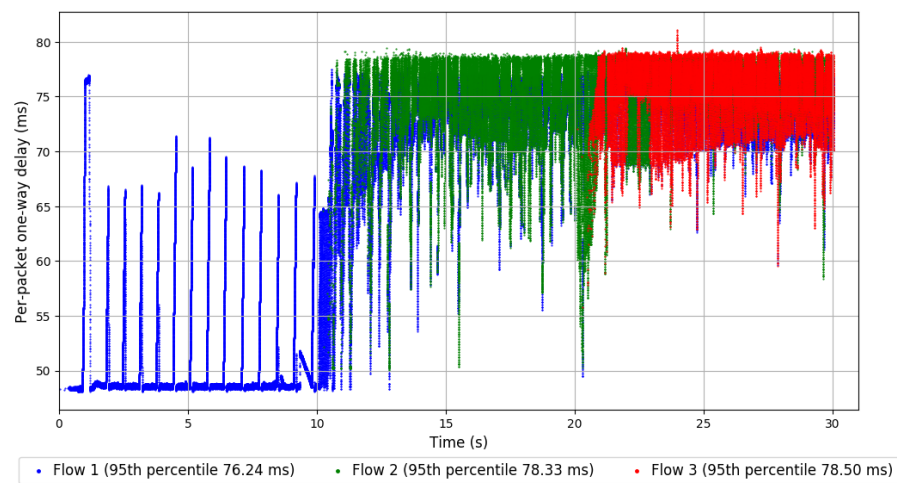
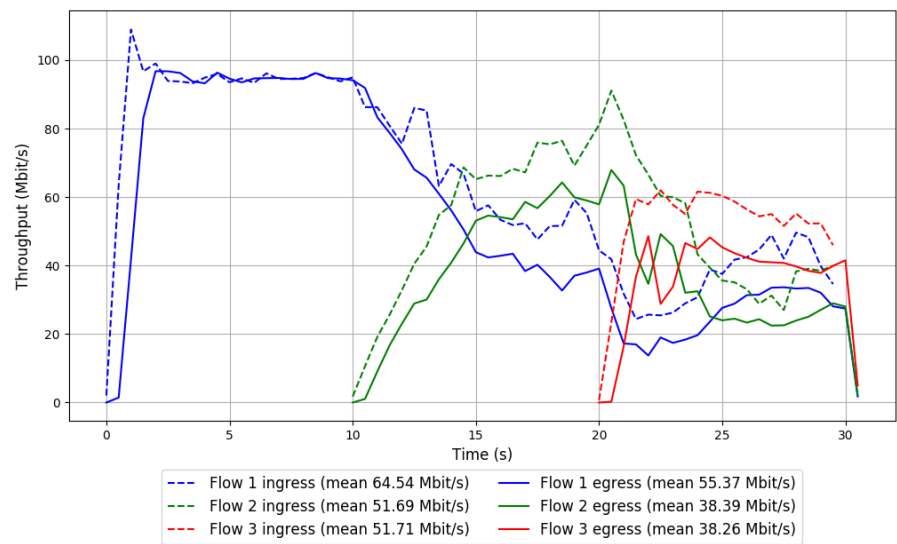


Run 2: Statistics of FillP

Start at: 2019-11-24 07:50:12  
End at: 2019-11-24 07:50:42  
Local clock offset: -0.127 ms  
Remote clock offset: -6.995 ms

# Below is generated by plot.py at 2019-11-24 09:49:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.59 Mbit/s  
95th percentile per-packet one-way delay: 77.989 ms  
Loss rate: 19.31%  
-- Flow 1:  
Average throughput: 55.37 Mbit/s  
95th percentile per-packet one-way delay: 76.237 ms  
Loss rate: 14.15%  
-- Flow 2:  
Average throughput: 38.39 Mbit/s  
95th percentile per-packet one-way delay: 78.327 ms  
Loss rate: 25.65%  
-- Flow 3:  
Average throughput: 38.26 Mbit/s  
95th percentile per-packet one-way delay: 78.496 ms  
Loss rate: 26.00%

Run 2: Report of FillP — Data Link

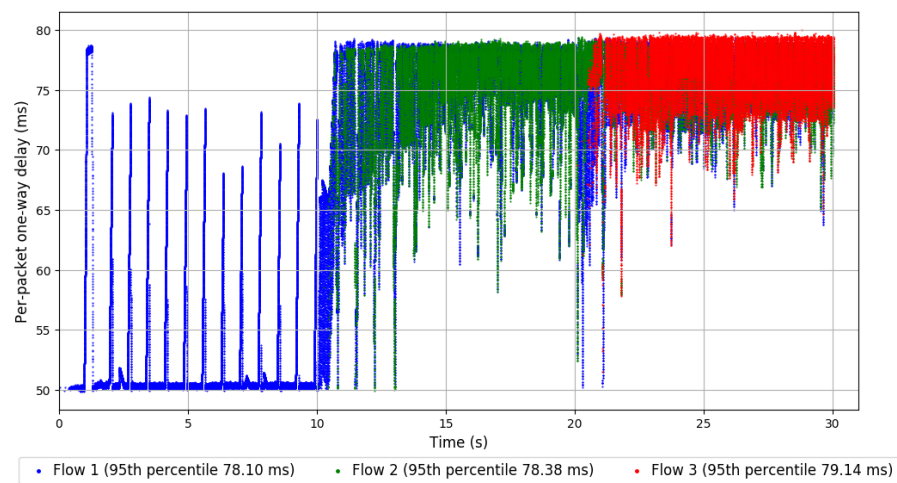
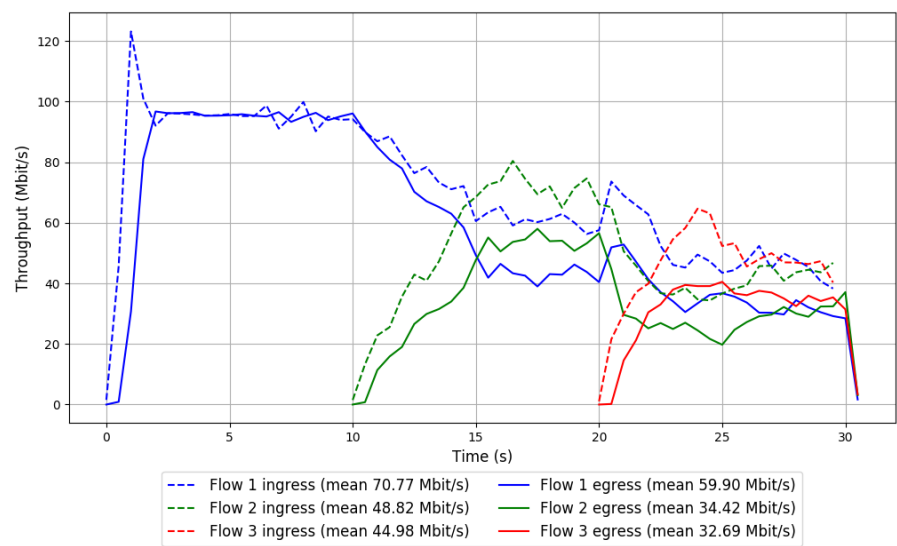


Run 3: Statistics of FillP

Start at: 2019-11-24 08:20:11  
End at: 2019-11-24 08:20:41  
Local clock offset: -0.834 ms  
Remote clock offset: -6.973 ms

# Below is generated by plot.py at 2019-11-24 09:49:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.62 Mbit/s  
95th percentile per-packet one-way delay: 78.363 ms  
Loss rate: 20.69%  
-- Flow 1:  
Average throughput: 59.90 Mbit/s  
95th percentile per-packet one-way delay: 78.101 ms  
Loss rate: 15.30%  
-- Flow 2:  
Average throughput: 34.42 Mbit/s  
95th percentile per-packet one-way delay: 78.382 ms  
Loss rate: 29.41%  
-- Flow 3:  
Average throughput: 32.69 Mbit/s  
95th percentile per-packet one-way delay: 79.143 ms  
Loss rate: 27.27%

Run 3: Report of FillP — Data Link

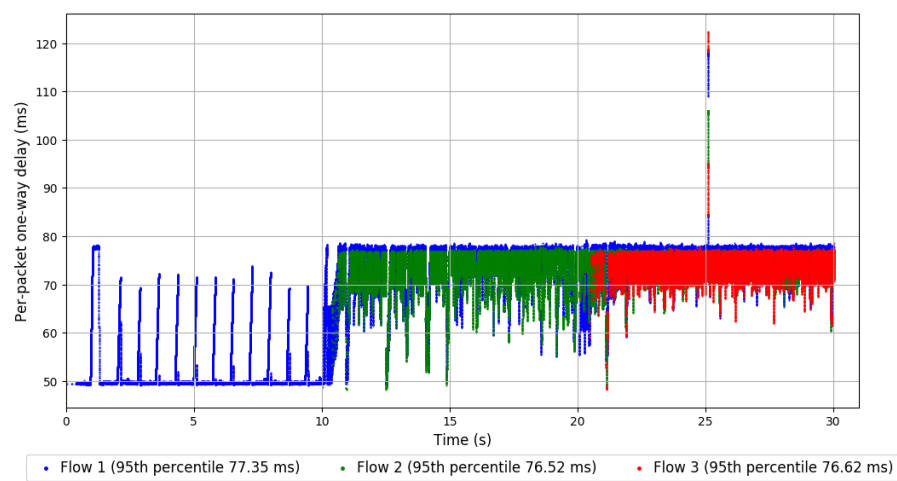
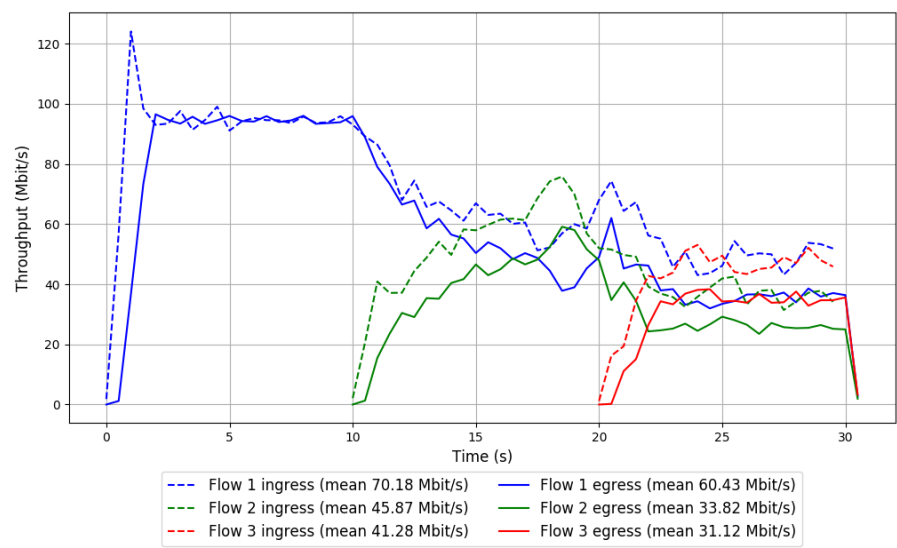


Run 4: Statistics of FillP

Start at: 2019-11-24 08:50:10  
End at: 2019-11-24 08:50:40  
Local clock offset: -0.82 ms  
Remote clock offset: -9.187 ms

# Below is generated by plot.py at 2019-11-24 09:49:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.26 Mbit/s  
95th percentile per-packet one-way delay: 77.145 ms  
Loss rate: 18.40%  
-- Flow 1:  
Average throughput: 60.43 Mbit/s  
95th percentile per-packet one-way delay: 77.354 ms  
Loss rate: 13.82%  
-- Flow 2:  
Average throughput: 33.82 Mbit/s  
95th percentile per-packet one-way delay: 76.520 ms  
Loss rate: 26.19%  
-- Flow 3:  
Average throughput: 31.12 Mbit/s  
95th percentile per-packet one-way delay: 76.618 ms  
Loss rate: 24.52%

Run 4: Report of FillP — Data Link

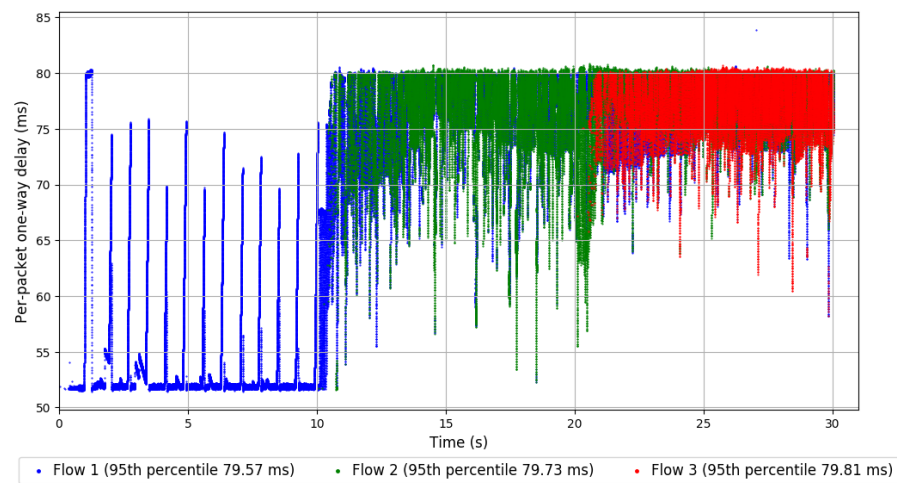
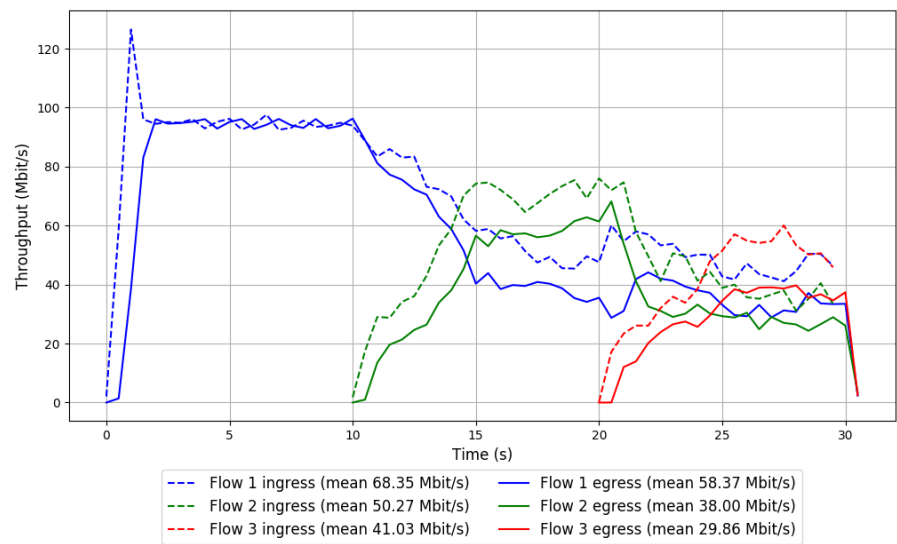


Run 5: Statistics of FillP

Start at: 2019-11-24 09:20:17  
End at: 2019-11-24 09:20:47  
Local clock offset: -1.042 ms  
Remote clock offset: -7.671 ms

# Below is generated by plot.py at 2019-11-24 09:49:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.54 Mbit/s  
95th percentile per-packet one-way delay: 79.645 ms  
Loss rate: 18.86%  
-- Flow 1:  
Average throughput: 58.37 Mbit/s  
95th percentile per-packet one-way delay: 79.574 ms  
Loss rate: 14.54%  
-- Flow 2:  
Average throughput: 38.00 Mbit/s  
95th percentile per-packet one-way delay: 79.733 ms  
Loss rate: 24.32%  
-- Flow 3:  
Average throughput: 29.86 Mbit/s  
95th percentile per-packet one-way delay: 79.811 ms  
Loss rate: 27.16%

Run 5: Report of FillP — Data Link



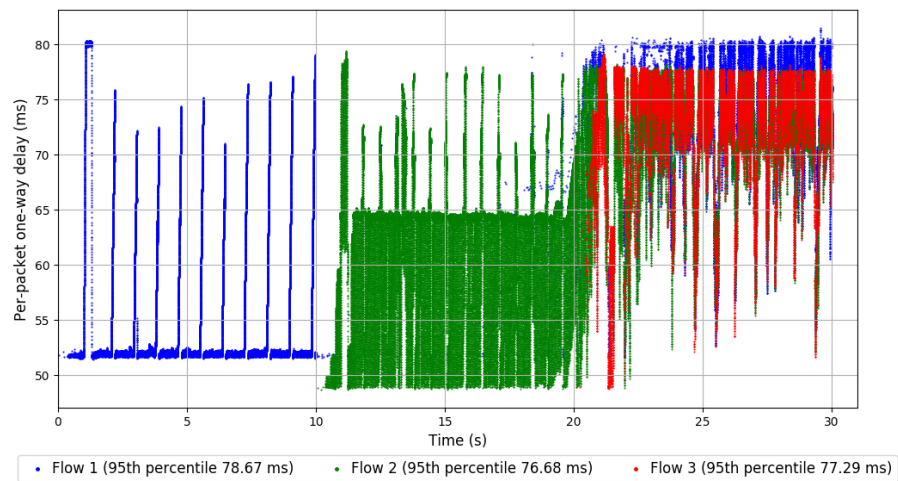
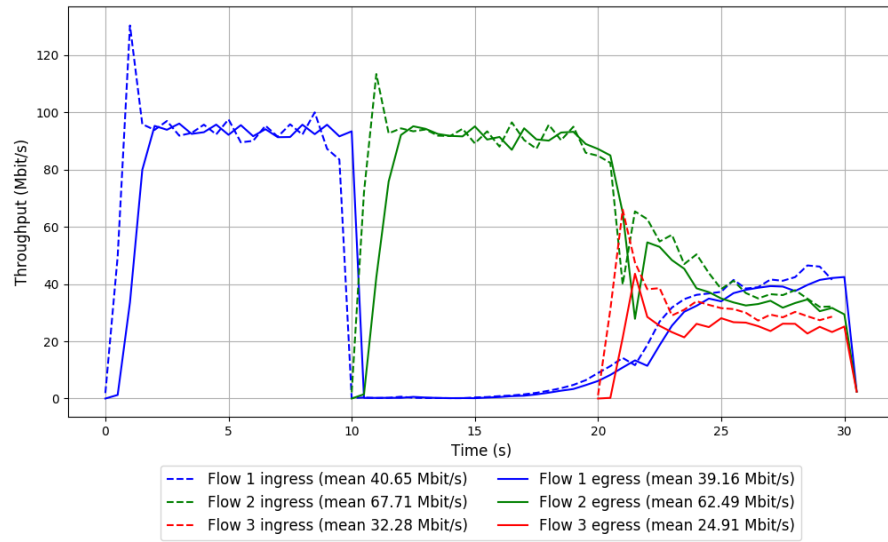


Run 1: Statistics of FillP-Sheep

Start at: 2019-11-24 07:33:54  
End at: 2019-11-24 07:34:24  
Local clock offset: -0.785 ms  
Remote clock offset: -6.682 ms

# Below is generated by plot.py at 2019-11-24 09:49:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.00 Mbit/s  
95th percentile per-packet one-way delay: 77.229 ms  
Loss rate: 7.61%  
-- Flow 1:  
Average throughput: 39.16 Mbit/s  
95th percentile per-packet one-way delay: 78.667 ms  
Loss rate: 3.61%  
-- Flow 2:  
Average throughput: 62.49 Mbit/s  
95th percentile per-packet one-way delay: 76.676 ms  
Loss rate: 7.61%  
-- Flow 3:  
Average throughput: 24.91 Mbit/s  
95th percentile per-packet one-way delay: 77.294 ms  
Loss rate: 22.83%

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



Run 2: Statistics of FillP-Sheep

Start at: 2019-11-24 08:03:49

End at: 2019-11-24 08:04:19

Local clock offset: 0.965 ms

Remote clock offset: -7.19 ms

# Below is generated by plot.py at 2019-11-24 09:50:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.55 Mbit/s

95th percentile per-packet one-way delay: 76.513 ms

Loss rate: 8.34%

-- Flow 1:

Average throughput: 63.34 Mbit/s

95th percentile per-packet one-way delay: 76.530 ms

Loss rate: 7.27%

-- Flow 2:

Average throughput: 31.95 Mbit/s

95th percentile per-packet one-way delay: 76.513 ms

Loss rate: 11.72%

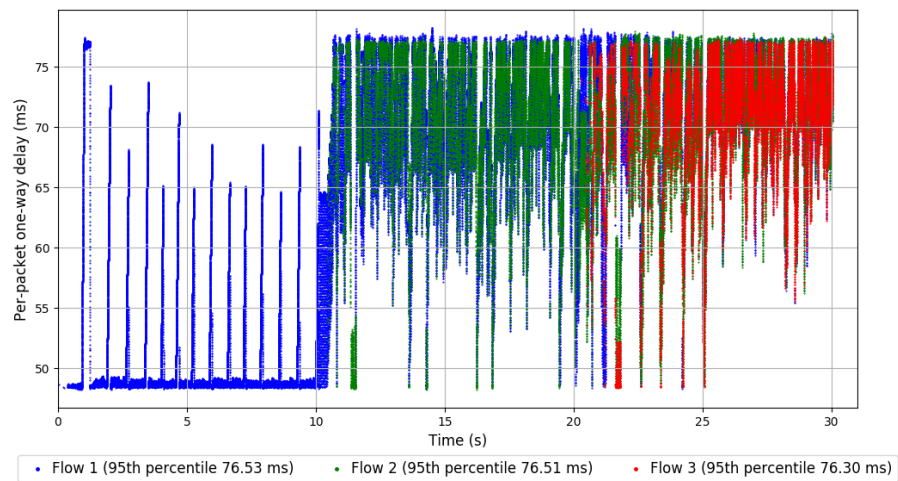
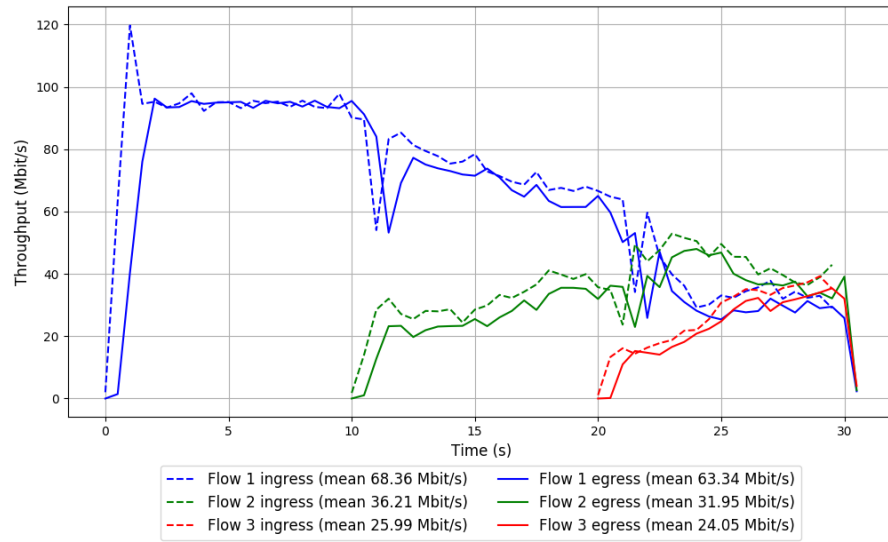
-- Flow 3:

Average throughput: 24.05 Mbit/s

95th percentile per-packet one-way delay: 76.296 ms

Loss rate: 7.33%

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

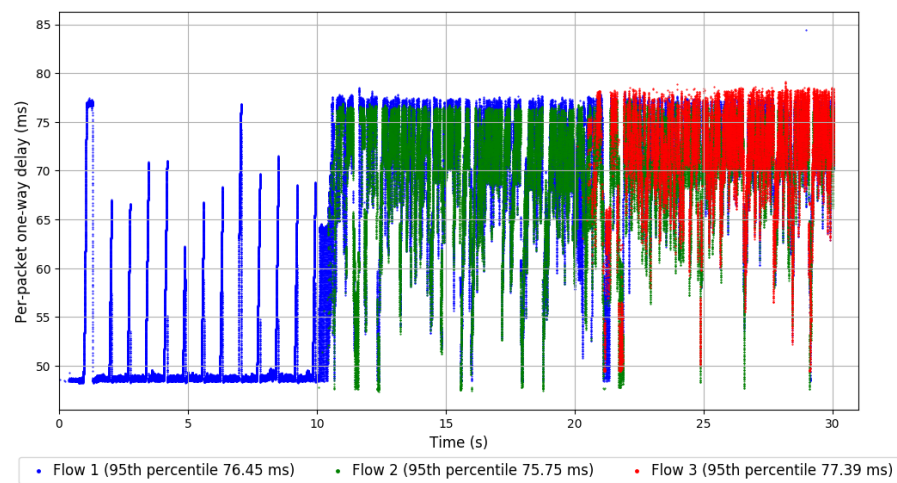
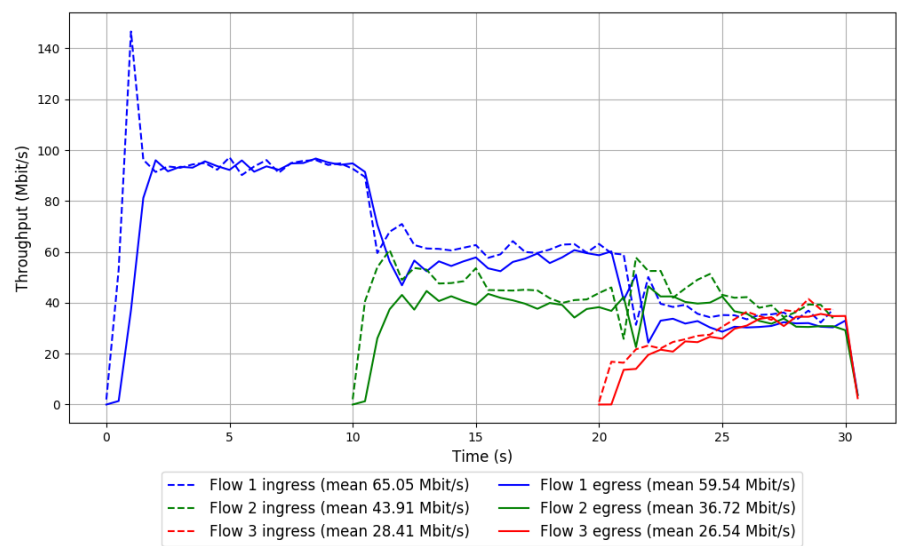


Run 3: Statistics of FillP-Sheep

Start at: 2019-11-24 08:33:48  
End at: 2019-11-24 08:34:18  
Local clock offset: -0.611 ms  
Remote clock offset: -8.705 ms

# Below is generated by plot.py at 2019-11-24 09:50:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.79 Mbit/s  
95th percentile per-packet one-way delay: 76.384 ms  
Loss rate: 10.44%  
-- Flow 1:  
Average throughput: 59.54 Mbit/s  
95th percentile per-packet one-way delay: 76.453 ms  
Loss rate: 8.39%  
-- Flow 2:  
Average throughput: 36.72 Mbit/s  
95th percentile per-packet one-way delay: 75.746 ms  
Loss rate: 16.28%  
-- Flow 3:  
Average throughput: 26.54 Mbit/s  
95th percentile per-packet one-way delay: 77.395 ms  
Loss rate: 6.54%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-11-24 09:03:46

End at: 2019-11-24 09:04:16

Local clock offset: -1.681 ms

Remote clock offset: -8.11 ms

# Below is generated by plot.py at 2019-11-24 09:50:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.31 Mbit/s

95th percentile per-packet one-way delay: 77.412 ms

Loss rate: 8.10%

-- Flow 1:

Average throughput: 65.50 Mbit/s

95th percentile per-packet one-way delay: 77.646 ms

Loss rate: 6.43%

-- Flow 2:

Average throughput: 26.99 Mbit/s

95th percentile per-packet one-way delay: 76.784 ms

Loss rate: 11.60%

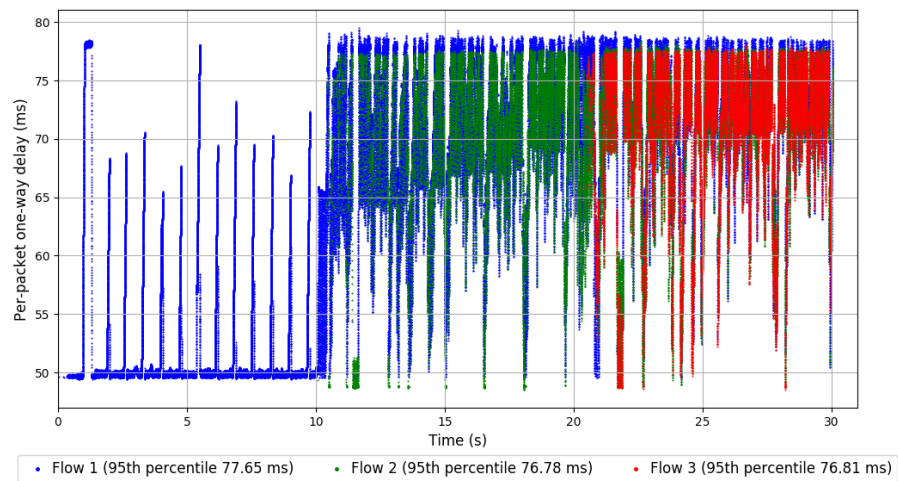
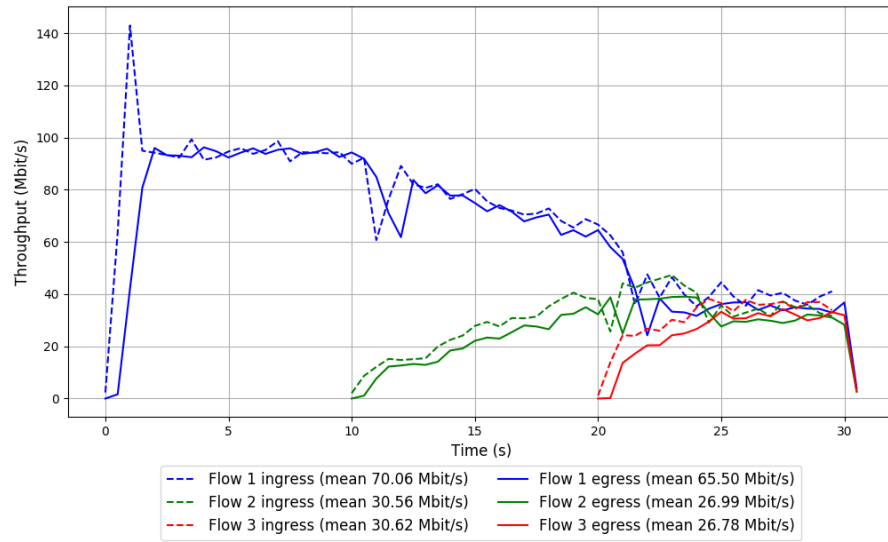
-- Flow 3:

Average throughput: 26.78 Mbit/s

95th percentile per-packet one-way delay: 76.810 ms

Loss rate: 12.60%

#### Run 4: Report of FillP-Sheep — Data Link



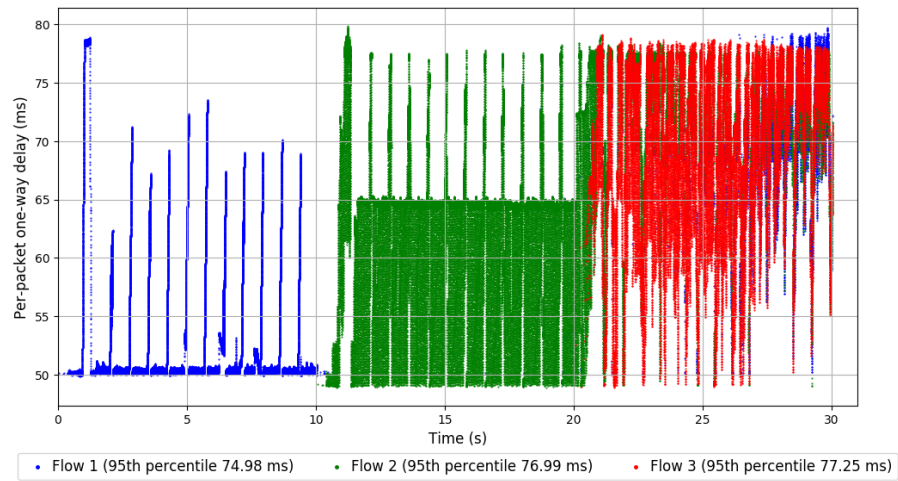
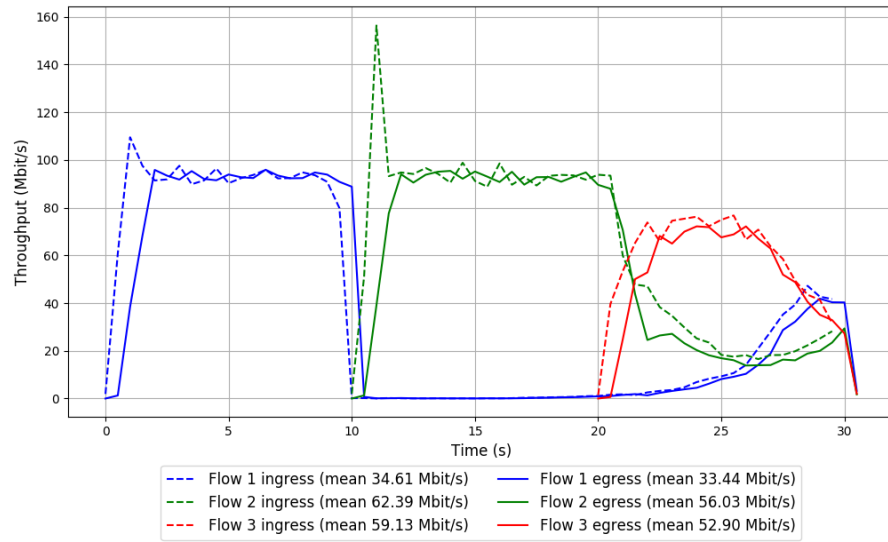


Run 5: Statistics of FillP-Sheep

Start at: 2019-11-24 09:33:54  
End at: 2019-11-24 09:34:24  
Local clock offset: -0.032 ms  
Remote clock offset: -8.244 ms

# Below is generated by plot.py at 2019-11-24 09:50:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.29 Mbit/s  
95th percentile per-packet one-way delay: 77.018 ms  
Loss rate: 7.71%  
-- Flow 1:  
Average throughput: 33.44 Mbit/s  
95th percentile per-packet one-way delay: 74.984 ms  
Loss rate: 3.30%  
-- Flow 2:  
Average throughput: 56.03 Mbit/s  
95th percentile per-packet one-way delay: 76.990 ms  
Loss rate: 10.10%  
-- Flow 3:  
Average throughput: 52.90 Mbit/s  
95th percentile per-packet one-way delay: 77.249 ms  
Loss rate: 10.43%

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

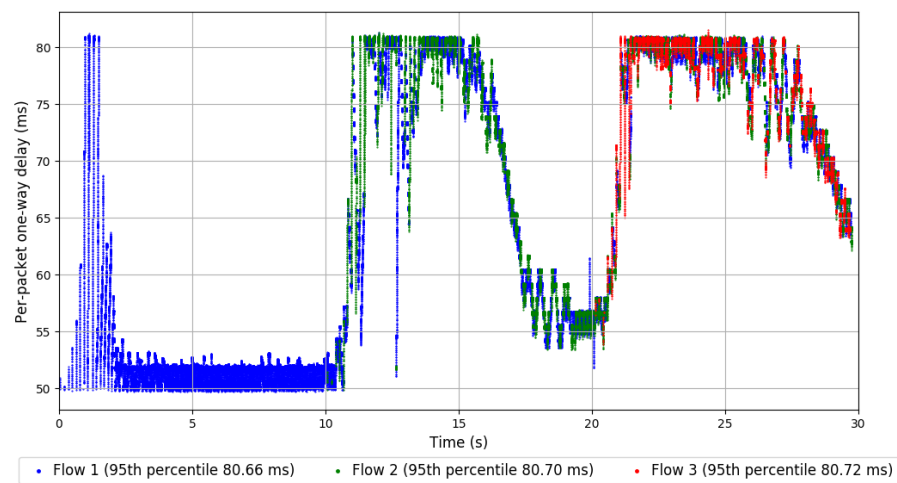
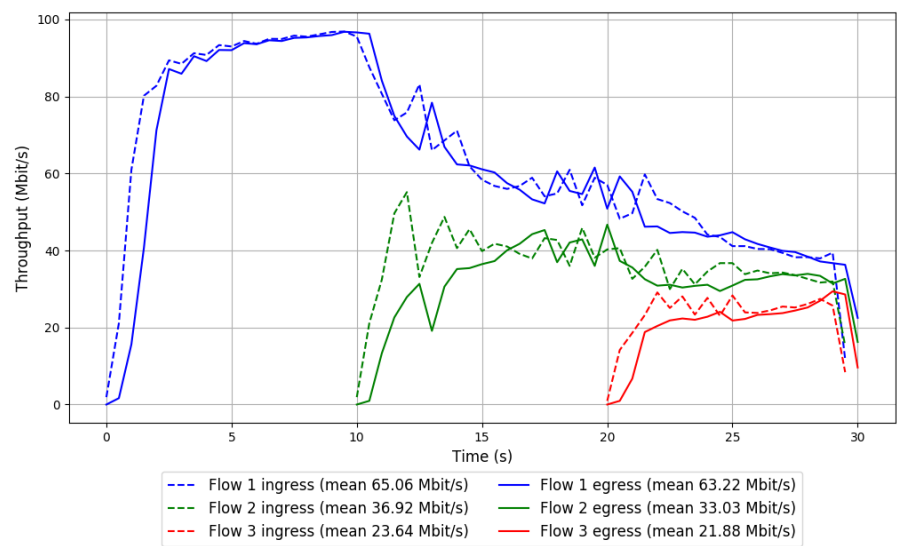


Run 1: Statistics of Indigo

Start at: 2019-11-24 07:37:36  
End at: 2019-11-24 07:38:06  
Local clock offset: -0.697 ms  
Remote clock offset: -6.463 ms

# Below is generated by plot.py at 2019-11-24 09:50:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.08 Mbit/s  
95th percentile per-packet one-way delay: 80.674 ms  
Loss rate: 5.08%  
-- Flow 1:  
Average throughput: 63.22 Mbit/s  
95th percentile per-packet one-way delay: 80.659 ms  
Loss rate: 2.78%  
-- Flow 2:  
Average throughput: 33.03 Mbit/s  
95th percentile per-packet one-way delay: 80.701 ms  
Loss rate: 10.49%  
-- Flow 3:  
Average throughput: 21.88 Mbit/s  
95th percentile per-packet one-way delay: 80.723 ms  
Loss rate: 7.39%

Run 1: Report of Indigo — Data Link

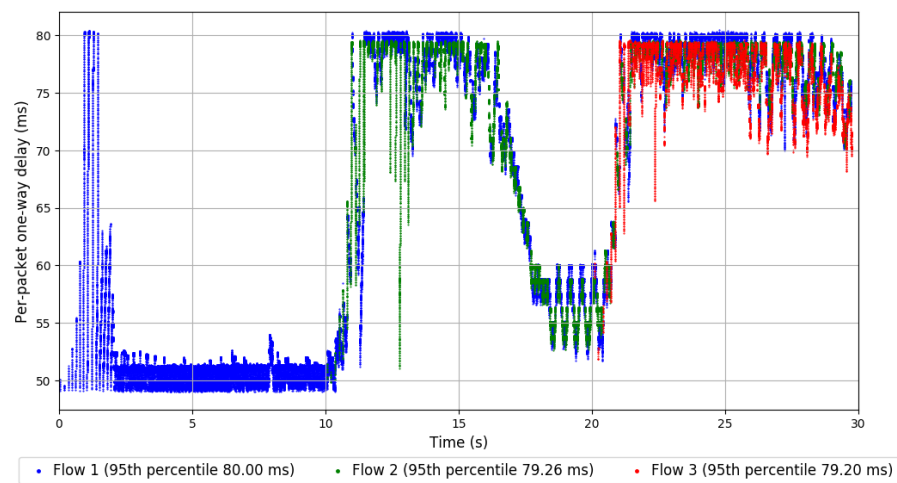
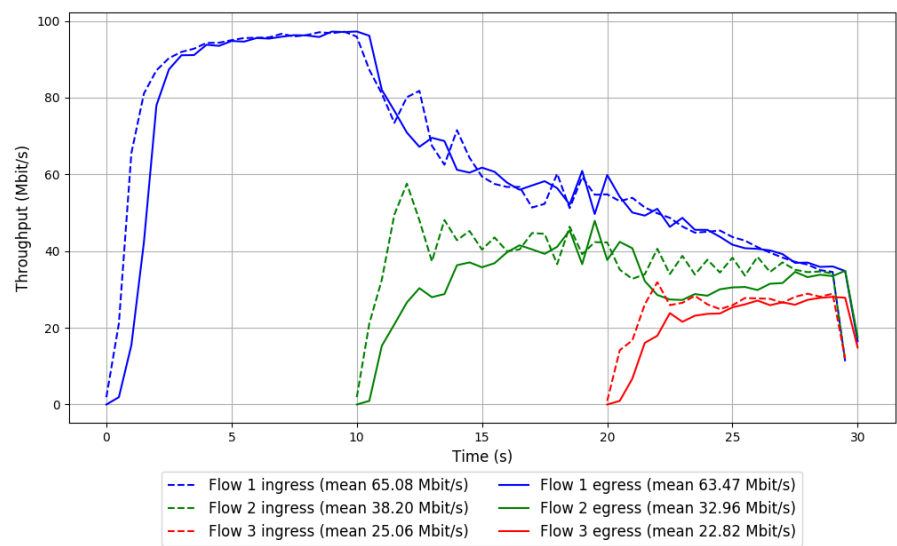


Run 2: Statistics of Indigo

Start at: 2019-11-24 08:07:32  
End at: 2019-11-24 08:08:02  
Local clock offset: 0.298 ms  
Remote clock offset: -7.253 ms

# Below is generated by plot.py at 2019-11-24 09:50:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.63 Mbit/s  
95th percentile per-packet one-way delay: 79.874 ms  
Loss rate: 5.80%  
-- Flow 1:  
Average throughput: 63.47 Mbit/s  
95th percentile per-packet one-way delay: 79.996 ms  
Loss rate: 2.39%  
-- Flow 2:  
Average throughput: 32.96 Mbit/s  
95th percentile per-packet one-way delay: 79.259 ms  
Loss rate: 13.60%  
-- Flow 3:  
Average throughput: 22.82 Mbit/s  
95th percentile per-packet one-way delay: 79.196 ms  
Loss rate: 8.79%

Run 2: Report of Indigo — Data Link

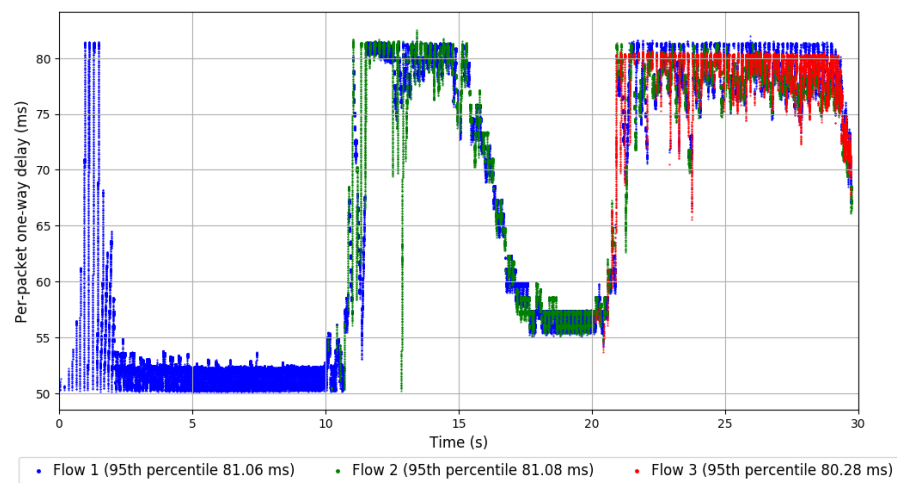
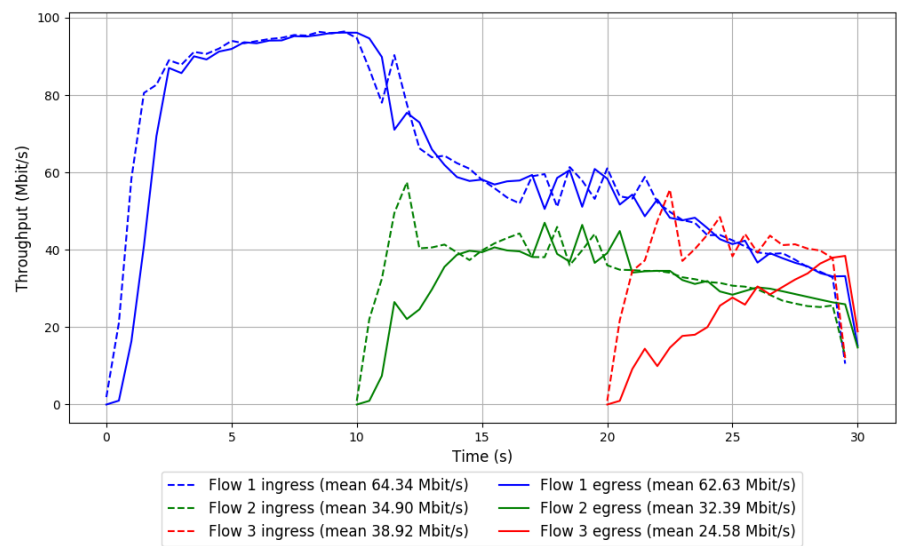


Run 3: Statistics of Indigo

Start at: 2019-11-24 08:37:31  
End at: 2019-11-24 08:38:01  
Local clock offset: -0.698 ms  
Remote clock offset: -8.183 ms

# Below is generated by plot.py at 2019-11-24 09:50:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.93 Mbit/s  
95th percentile per-packet one-way delay: 81.058 ms  
Loss rate: 7.93%  
-- Flow 1:  
Average throughput: 62.63 Mbit/s  
95th percentile per-packet one-way delay: 81.062 ms  
Loss rate: 2.59%  
-- Flow 2:  
Average throughput: 32.39 Mbit/s  
95th percentile per-packet one-way delay: 81.075 ms  
Loss rate: 7.13%  
-- Flow 3:  
Average throughput: 24.58 Mbit/s  
95th percentile per-packet one-way delay: 80.285 ms  
Loss rate: 36.74%

Run 3: Report of Indigo — Data Link



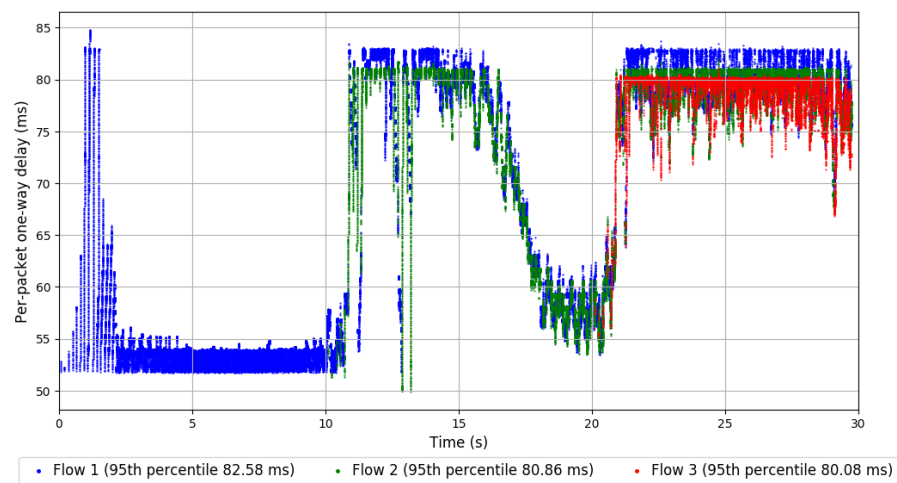
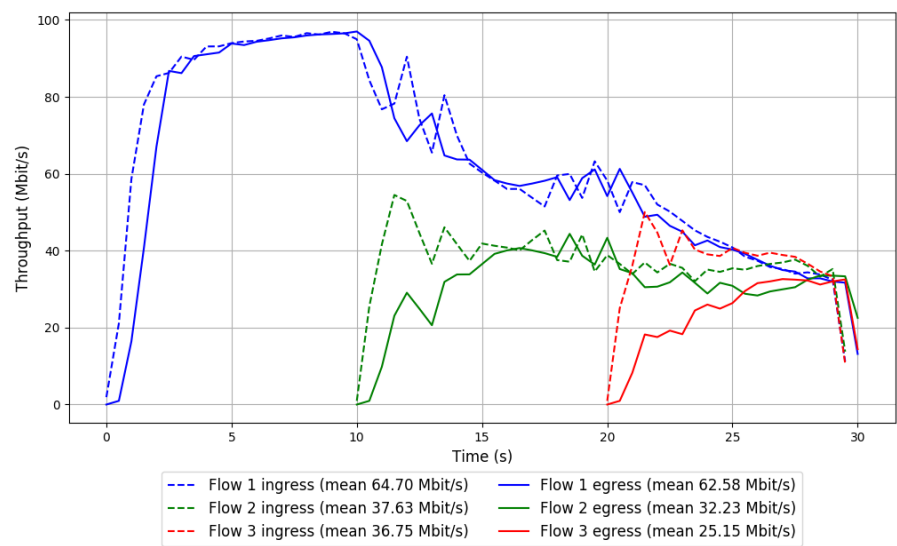


Run 4: Statistics of Indigo

Start at: 2019-11-24 09:07:29  
End at: 2019-11-24 09:07:59  
Local clock offset: -1.737 ms  
Remote clock offset: -7.777 ms

# Below is generated by plot.py at 2019-11-24 09:50:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.07 Mbit/s  
95th percentile per-packet one-way delay: 82.498 ms  
Loss rate: 9.23%  
-- Flow 1:  
Average throughput: 62.58 Mbit/s  
95th percentile per-packet one-way delay: 82.585 ms  
Loss rate: 3.21%  
-- Flow 2:  
Average throughput: 32.23 Mbit/s  
95th percentile per-packet one-way delay: 80.862 ms  
Loss rate: 14.24%  
-- Flow 3:  
Average throughput: 25.15 Mbit/s  
95th percentile per-packet one-way delay: 80.082 ms  
Loss rate: 31.45%

Run 4: Report of Indigo — Data Link

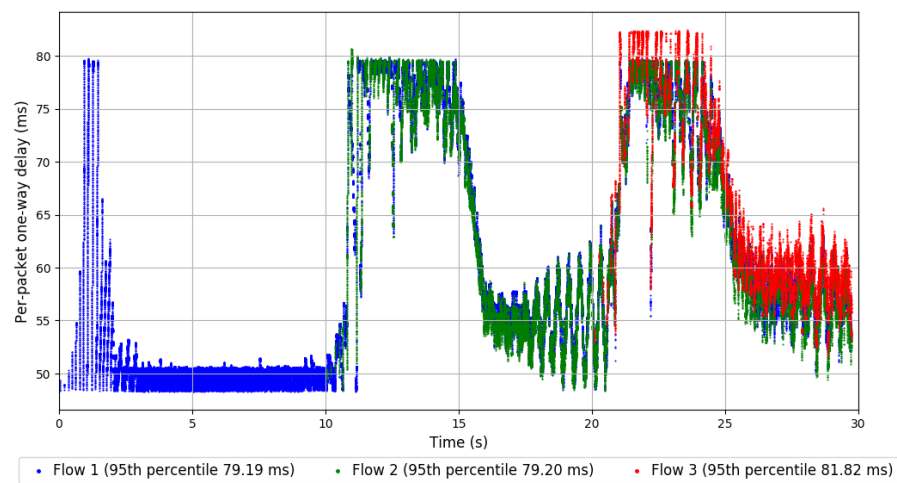
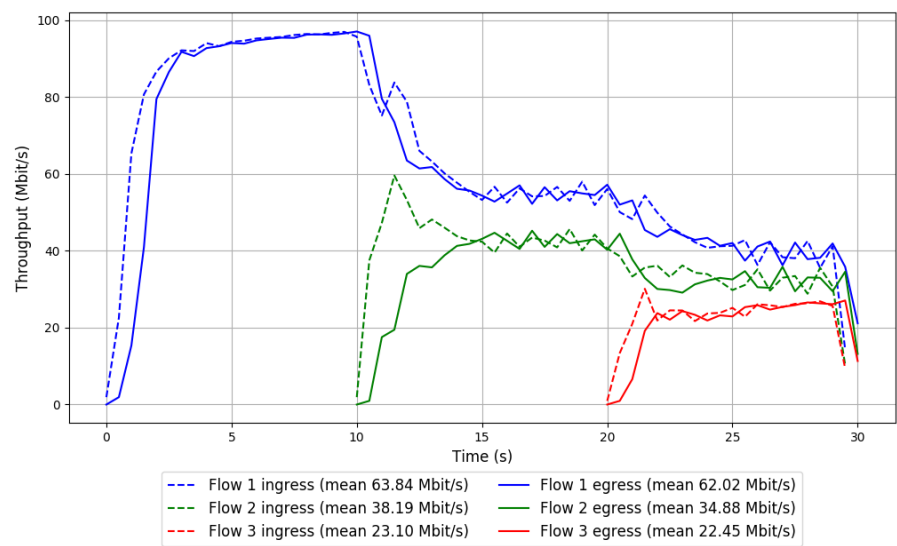


Run 5: Statistics of Indigo

Start at: 2019-11-24 09:37:37  
End at: 2019-11-24 09:38:07  
Local clock offset: -0.814 ms  
Remote clock offset: -9.196 ms

# Below is generated by plot.py at 2019-11-24 09:51:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.39 Mbit/s  
95th percentile per-packet one-way delay: 79.219 ms  
Loss rate: 4.36%  
-- Flow 1:  
Average throughput: 62.02 Mbit/s  
95th percentile per-packet one-way delay: 79.194 ms  
Loss rate: 2.84%  
-- Flow 2:  
Average throughput: 34.88 Mbit/s  
95th percentile per-packet one-way delay: 79.196 ms  
Loss rate: 8.64%  
-- Flow 3:  
Average throughput: 22.45 Mbit/s  
95th percentile per-packet one-way delay: 81.818 ms  
Loss rate: 2.80%

Run 5: Report of Indigo — Data Link

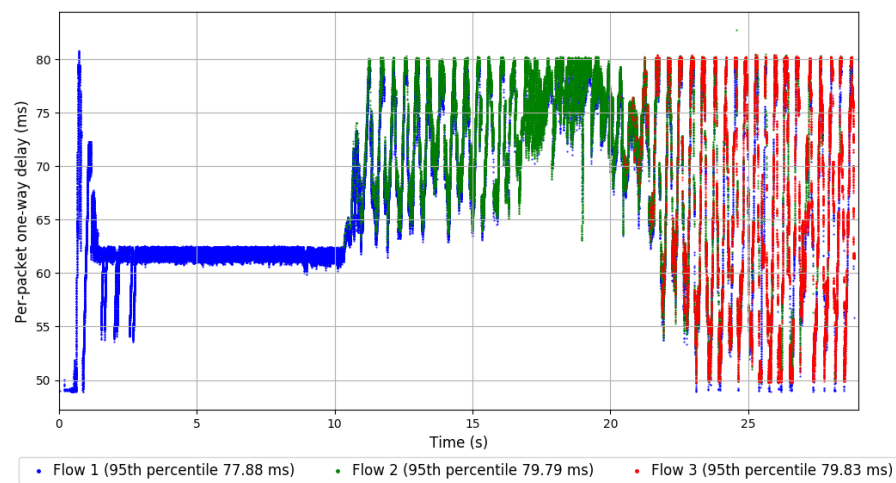
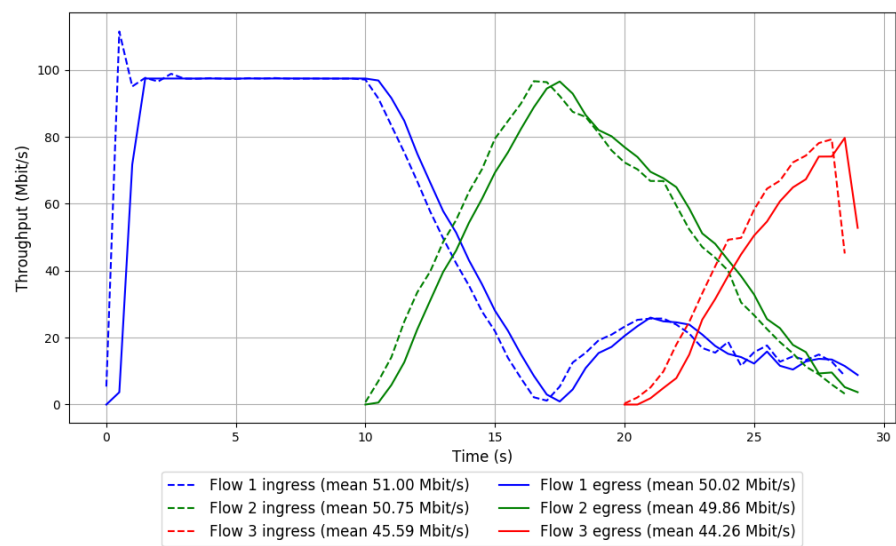


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-11-24 07:38:53  
End at: 2019-11-24 07:39:23  
Local clock offset: -0.685 ms  
Remote clock offset: -6.361 ms

# Below is generated by plot.py at 2019-11-24 09:51:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.30 Mbit/s  
95th percentile per-packet one-way delay: 79.412 ms  
Loss rate: 1.99%  
-- Flow 1:  
Average throughput: 50.02 Mbit/s  
95th percentile per-packet one-way delay: 77.876 ms  
Loss rate: 1.88%  
-- Flow 2:  
Average throughput: 49.86 Mbit/s  
95th percentile per-packet one-way delay: 79.792 ms  
Loss rate: 1.71%  
-- Flow 3:  
Average throughput: 44.26 Mbit/s  
95th percentile per-packet one-way delay: 79.830 ms  
Loss rate: 3.09%

Run 1: Report of Indigo-MusesC3 — Data Link

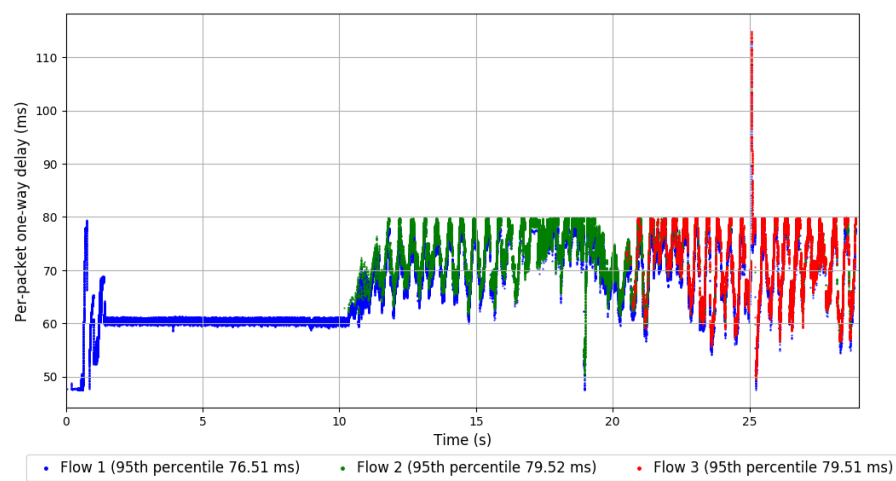
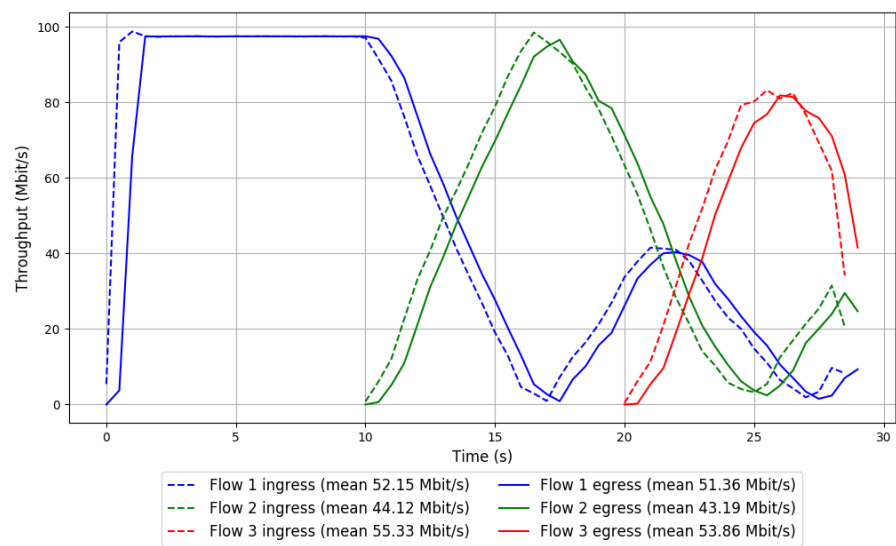


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-11-24 08:08:49  
End at: 2019-11-24 08:09:19  
Local clock offset: 1.063 ms  
Remote clock offset: -7.131 ms

# Below is generated by plot.py at 2019-11-24 09:51:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.37 Mbit/s  
95th percentile per-packet one-way delay: 79.291 ms  
Loss rate: 1.77%  
-- Flow 1:  
Average throughput: 51.36 Mbit/s  
95th percentile per-packet one-way delay: 76.509 ms  
Loss rate: 1.41%  
-- Flow 2:  
Average throughput: 43.19 Mbit/s  
95th percentile per-packet one-way delay: 79.523 ms  
Loss rate: 2.01%  
-- Flow 3:  
Average throughput: 53.86 Mbit/s  
95th percentile per-packet one-way delay: 79.512 ms  
Loss rate: 2.51%

Run 2: Report of Indigo-MusesC3 — Data Link



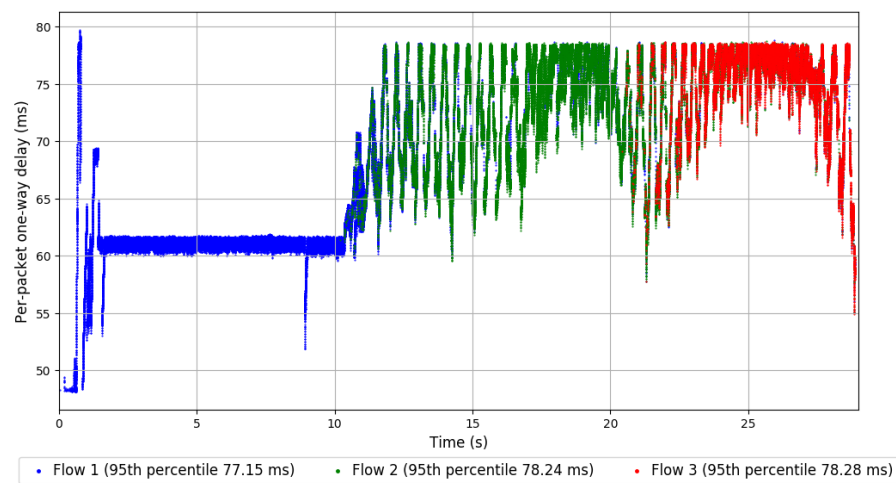
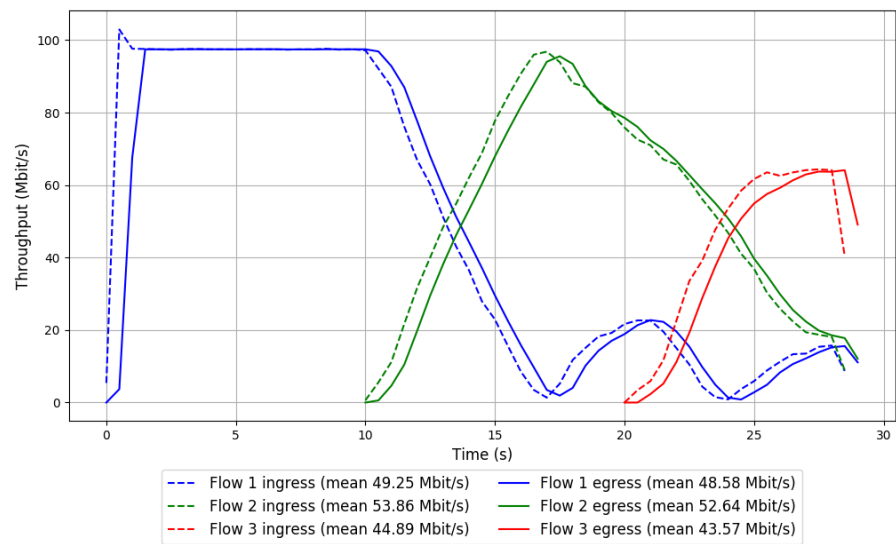


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-11-24 08:38:48  
End at: 2019-11-24 08:39:18  
Local clock offset: -0.643 ms  
Remote clock offset: -8.289 ms

# Below is generated by plot.py at 2019-11-24 09:51:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.47 Mbit/s  
95th percentile per-packet one-way delay: 78.156 ms  
Loss rate: 1.89%  
-- Flow 1:  
Average throughput: 48.58 Mbit/s  
95th percentile per-packet one-way delay: 77.153 ms  
Loss rate: 1.32%  
-- Flow 2:  
Average throughput: 52.64 Mbit/s  
95th percentile per-packet one-way delay: 78.241 ms  
Loss rate: 2.27%  
-- Flow 3:  
Average throughput: 43.57 Mbit/s  
95th percentile per-packet one-way delay: 78.279 ms  
Loss rate: 3.04%

Run 3: Report of Indigo-MusesC3 — Data Link

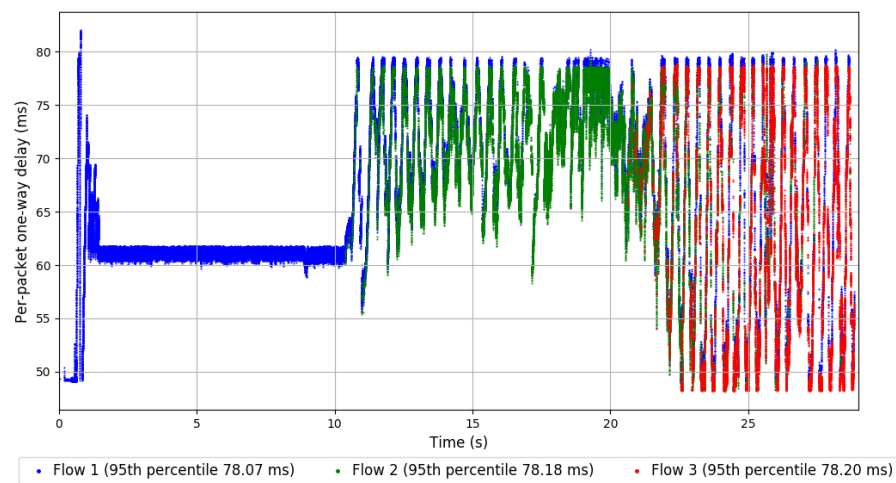
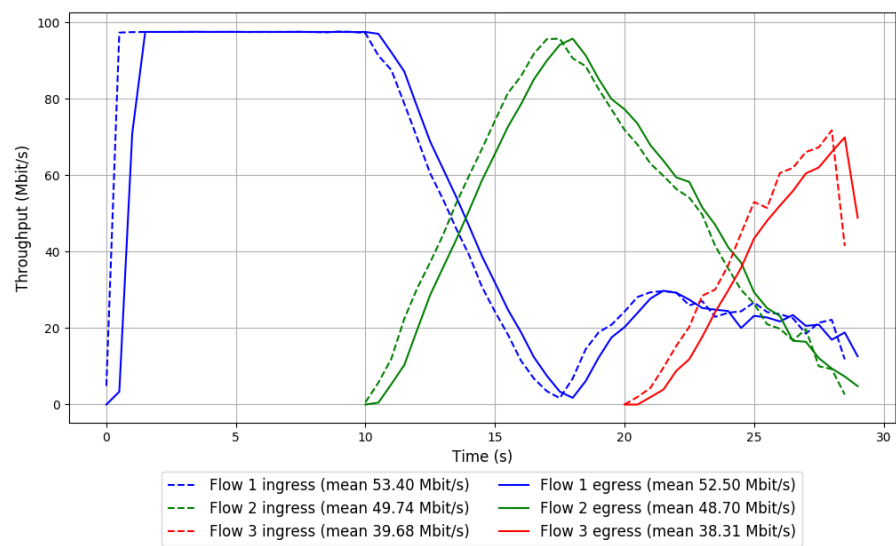


Run 4: Statistics of Indigo-MusesC3

Start at: 2019-11-24 09:08:46  
End at: 2019-11-24 09:09:16  
Local clock offset: -1.804 ms  
Remote clock offset: -8.615 ms

# Below is generated by plot.py at 2019-11-24 09:51:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.10 Mbit/s  
95th percentile per-packet one-way delay: 78.176 ms  
Loss rate: 2.03%  
-- Flow 1:  
Average throughput: 52.50 Mbit/s  
95th percentile per-packet one-way delay: 78.074 ms  
Loss rate: 1.65%  
-- Flow 2:  
Average throughput: 48.70 Mbit/s  
95th percentile per-packet one-way delay: 78.181 ms  
Loss rate: 2.11%  
-- Flow 3:  
Average throughput: 38.31 Mbit/s  
95th percentile per-packet one-way delay: 78.201 ms  
Loss rate: 3.62%

Run 4: Report of Indigo-MusesC3 — Data Link

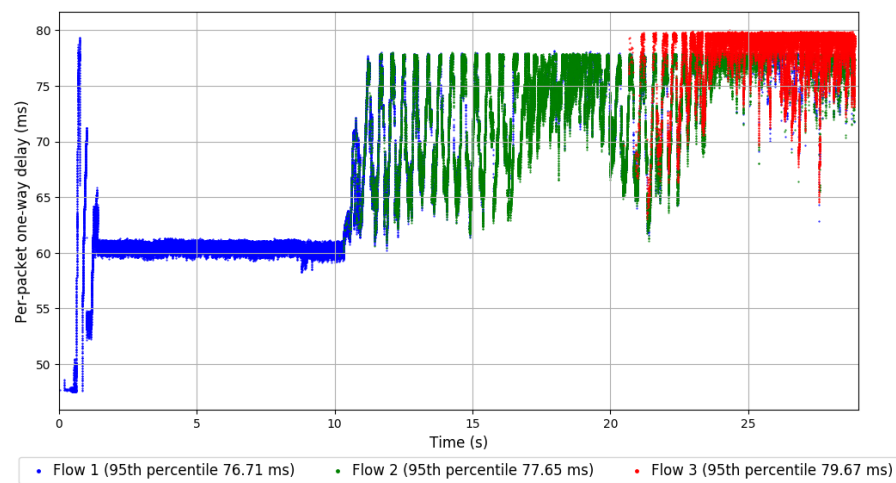
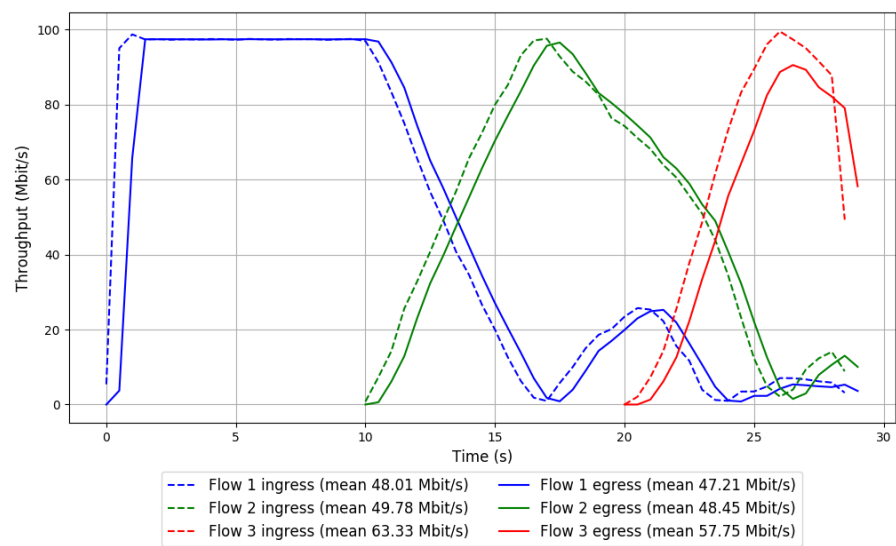


Run 5: Statistics of Indigo-MusesC3

Start at: 2019-11-24 09:38:54  
End at: 2019-11-24 09:39:24  
Local clock offset: 0.011 ms  
Remote clock offset: -9.279 ms

# Below is generated by plot.py at 2019-11-24 09:51:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.40 Mbit/s  
95th percentile per-packet one-way delay: 79.416 ms  
Loss rate: 3.24%  
-- Flow 1:  
Average throughput: 47.21 Mbit/s  
95th percentile per-packet one-way delay: 76.711 ms  
Loss rate: 1.58%  
-- Flow 2:  
Average throughput: 48.45 Mbit/s  
95th percentile per-packet one-way delay: 77.653 ms  
Loss rate: 2.59%  
-- Flow 3:  
Average throughput: 57.75 Mbit/s  
95th percentile per-packet one-way delay: 79.666 ms  
Loss rate: 8.70%

Run 5: Report of Indigo-MusesC3 — Data Link

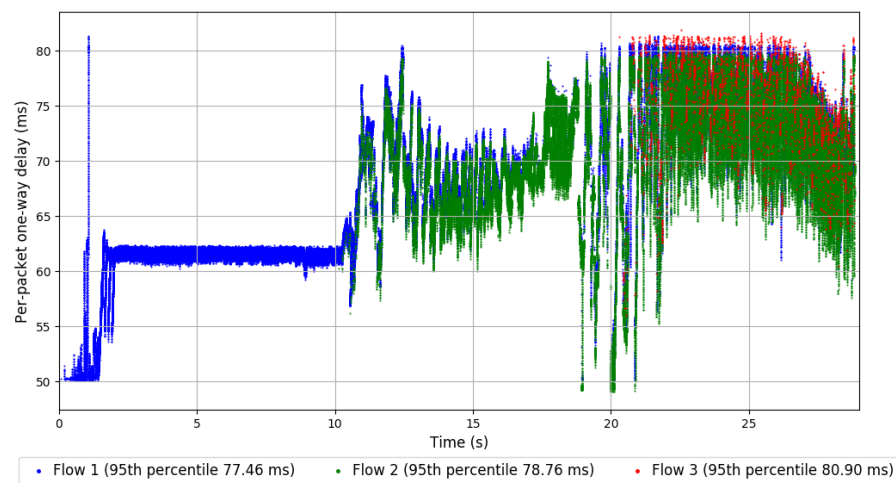
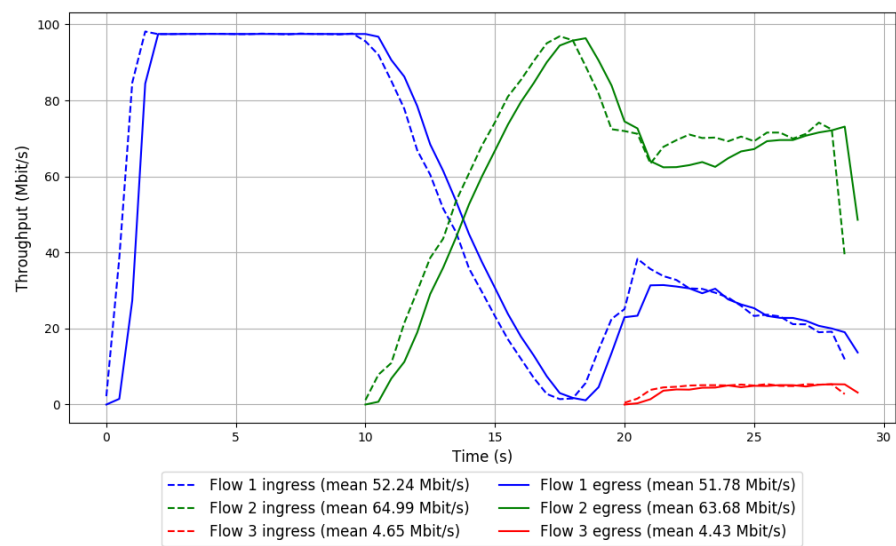


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-11-24 07:31:27  
End at: 2019-11-24 07:31:57  
Local clock offset: -0.769 ms  
Remote clock offset: -7.504 ms

# Below is generated by plot.py at 2019-11-24 09:51:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.44 Mbit/s  
95th percentile per-packet one-way delay: 78.502 ms  
Loss rate: 1.39%  
-- Flow 1:  
Average throughput: 51.78 Mbit/s  
95th percentile per-packet one-way delay: 77.456 ms  
Loss rate: 0.82%  
-- Flow 2:  
Average throughput: 63.68 Mbit/s  
95th percentile per-packet one-way delay: 78.763 ms  
Loss rate: 1.99%  
-- Flow 3:  
Average throughput: 4.43 Mbit/s  
95th percentile per-packet one-way delay: 80.899 ms  
Loss rate: 4.83%

Run 1: Report of Indigo-MusesC5 — Data Link



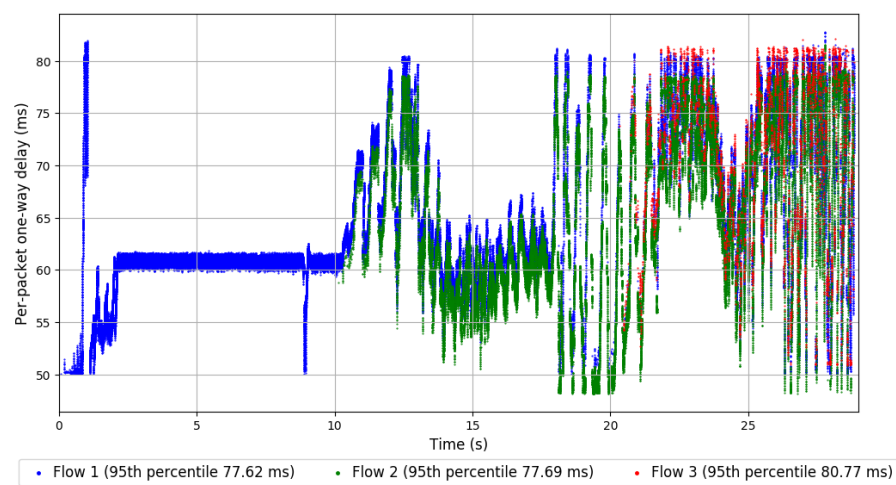
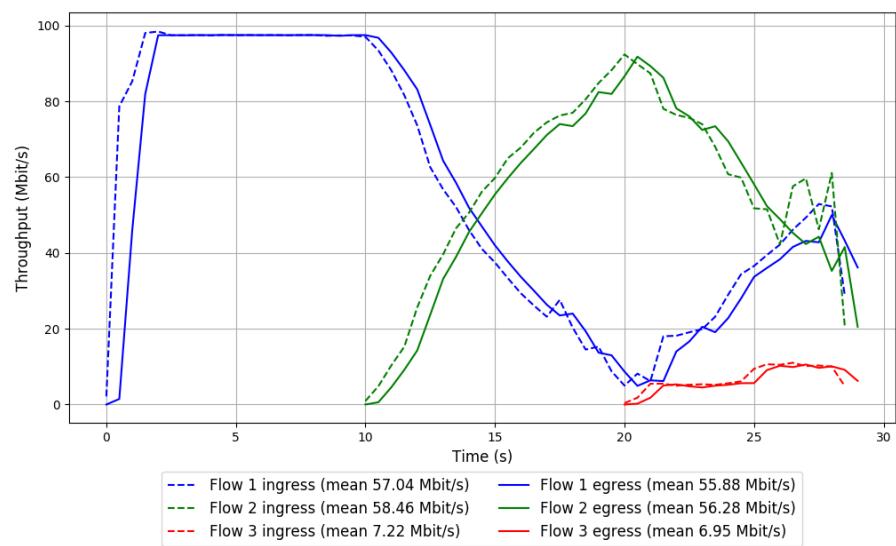


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-11-24 08:01:22  
End at: 2019-11-24 08:01:52  
Local clock offset: 0.929 ms  
Remote clock offset: -6.611 ms

# Below is generated by plot.py at 2019-11-24 09:51:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.44 Mbit/s  
95th percentile per-packet one-way delay: 77.834 ms  
Loss rate: 2.64%  
-- Flow 1:  
Average throughput: 55.88 Mbit/s  
95th percentile per-packet one-way delay: 77.618 ms  
Loss rate: 1.92%  
-- Flow 2:  
Average throughput: 56.28 Mbit/s  
95th percentile per-packet one-way delay: 77.685 ms  
Loss rate: 3.67%  
-- Flow 3:  
Average throughput: 6.95 Mbit/s  
95th percentile per-packet one-way delay: 80.770 ms  
Loss rate: 3.66%

Run 2: Report of Indigo-MusesC5 — Data Link

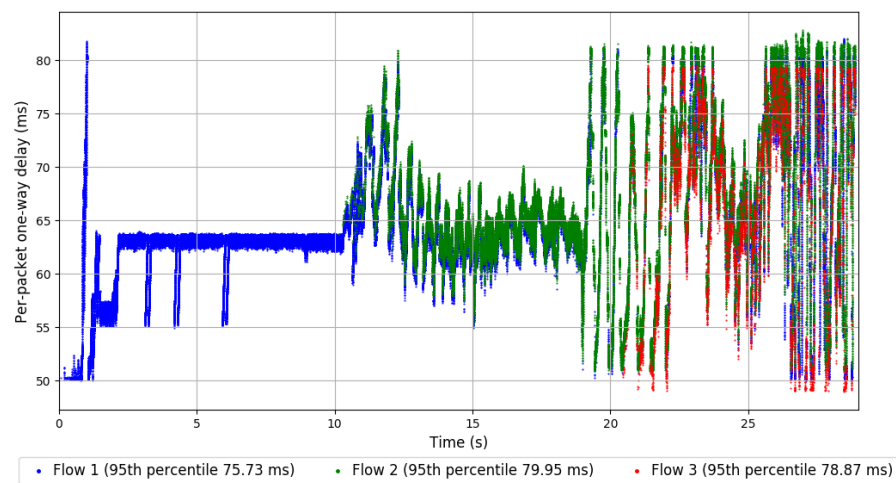
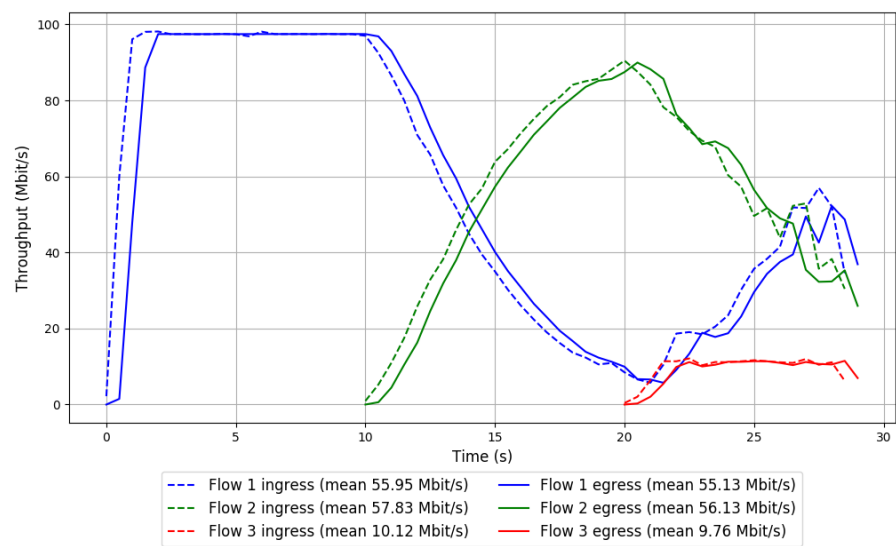


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-11-24 08:31:21  
End at: 2019-11-24 08:31:51  
Local clock offset: -1.243 ms  
Remote clock offset: -8.641 ms

# Below is generated by plot.py at 2019-11-24 09:52:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.48 Mbit/s  
95th percentile per-packet one-way delay: 78.102 ms  
Loss rate: 2.02%  
-- Flow 1:  
Average throughput: 55.13 Mbit/s  
95th percentile per-packet one-way delay: 75.730 ms  
Loss rate: 1.39%  
-- Flow 2:  
Average throughput: 56.13 Mbit/s  
95th percentile per-packet one-way delay: 79.947 ms  
Loss rate: 2.86%  
-- Flow 3:  
Average throughput: 9.76 Mbit/s  
95th percentile per-packet one-way delay: 78.870 ms  
Loss rate: 3.42%

Run 3: Report of Indigo-MusesC5 — Data Link

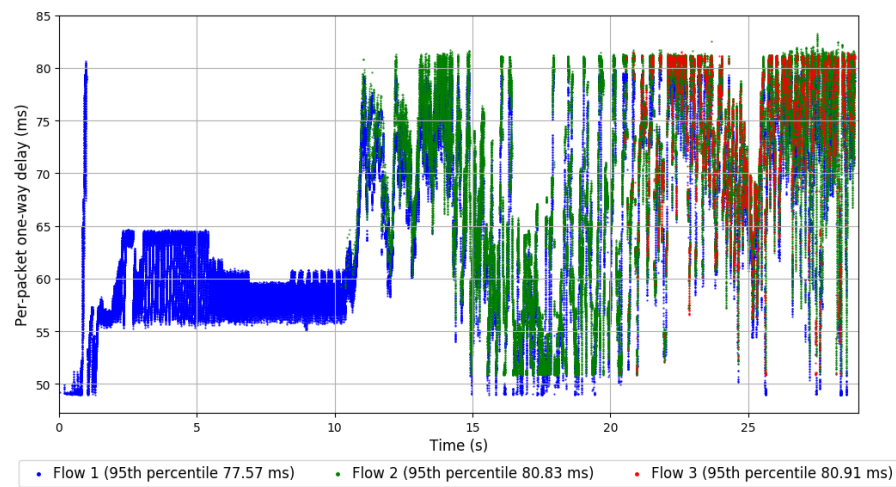
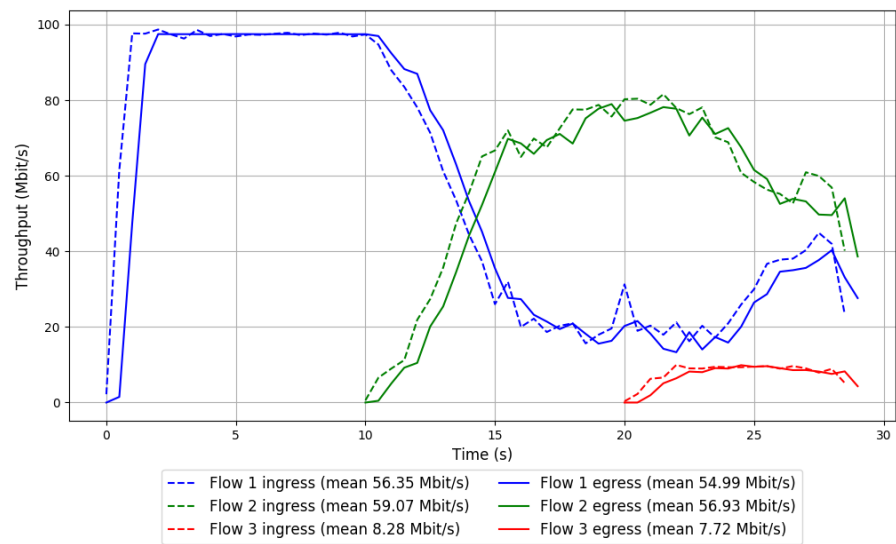


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-11-24 09:01:20  
End at: 2019-11-24 09:01:50  
Local clock offset: -1.679 ms  
Remote clock offset: -8.007 ms

# Below is generated by plot.py at 2019-11-24 09:52:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.05 Mbit/s  
95th percentile per-packet one-way delay: 80.022 ms  
Loss rate: 2.89%  
-- Flow 1:  
Average throughput: 54.99 Mbit/s  
95th percentile per-packet one-way delay: 77.573 ms  
Loss rate: 2.32%  
-- Flow 2:  
Average throughput: 56.93 Mbit/s  
95th percentile per-packet one-way delay: 80.827 ms  
Loss rate: 3.52%  
-- Flow 3:  
Average throughput: 7.72 Mbit/s  
95th percentile per-packet one-way delay: 80.913 ms  
Loss rate: 6.45%

Run 4: Report of Indigo-MusesC5 — Data Link

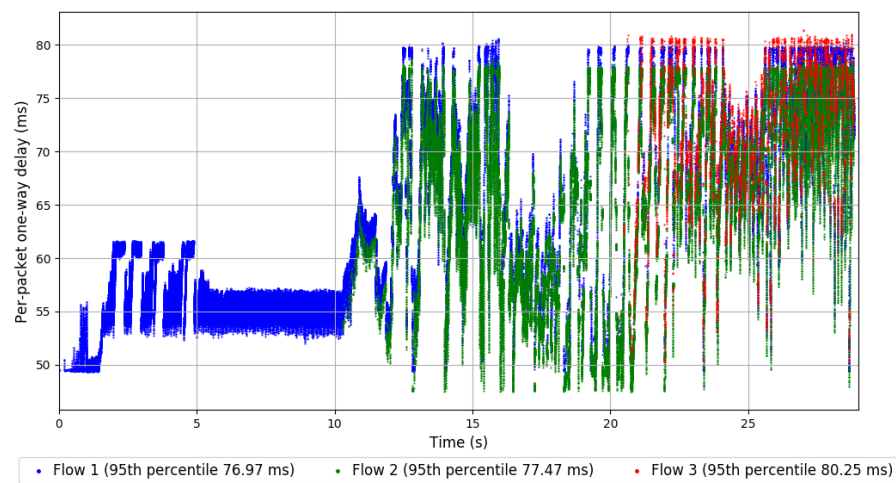
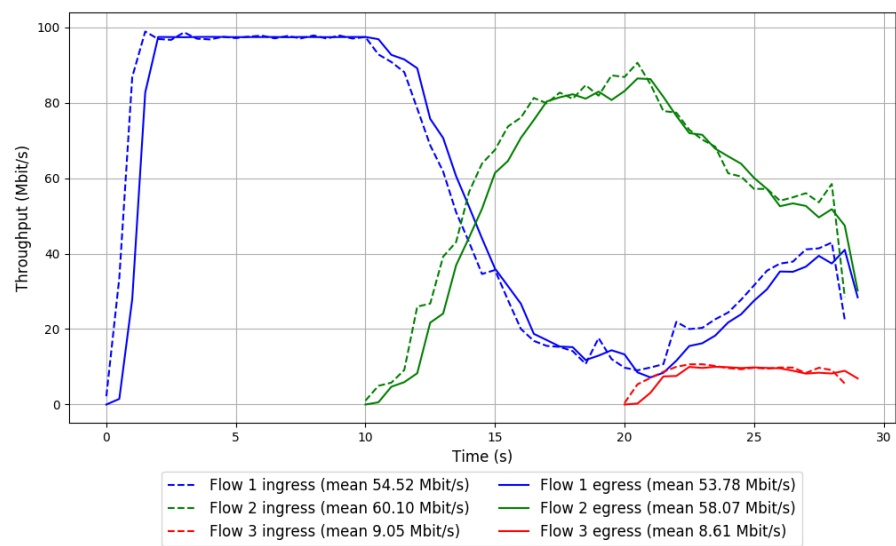


Run 5: Statistics of Indigo-MusesC5

Start at: 2019-11-24 09:31:27  
End at: 2019-11-24 09:31:57  
Local clock offset: -0.068 ms  
Remote clock offset: -8.718 ms

# Below is generated by plot.py at 2019-11-24 09:52:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.98 Mbit/s  
95th percentile per-packet one-way delay: 77.491 ms  
Loss rate: 2.19%  
-- Flow 1:  
Average throughput: 53.78 Mbit/s  
95th percentile per-packet one-way delay: 76.973 ms  
Loss rate: 1.29%  
-- Flow 2:  
Average throughput: 58.07 Mbit/s  
95th percentile per-packet one-way delay: 77.475 ms  
Loss rate: 3.29%  
-- Flow 3:  
Average throughput: 8.61 Mbit/s  
95th percentile per-packet one-way delay: 80.255 ms  
Loss rate: 4.73%

Run 5: Report of Indigo-MusesC5 — Data Link



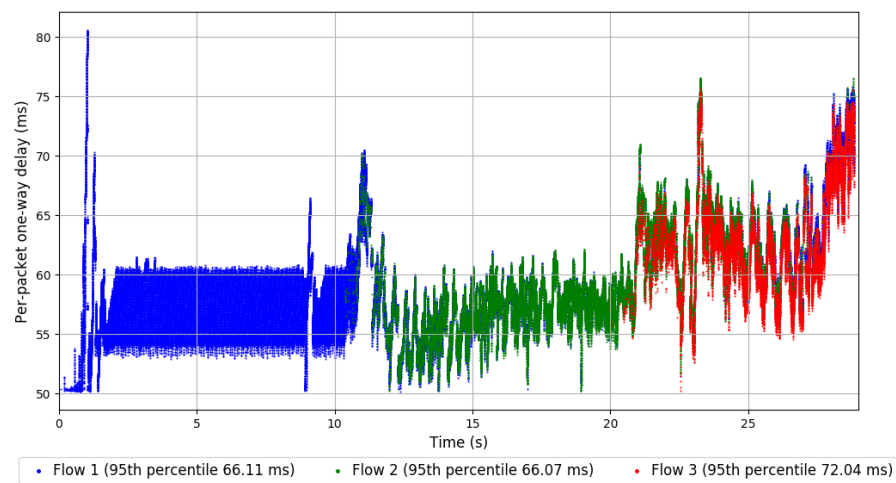
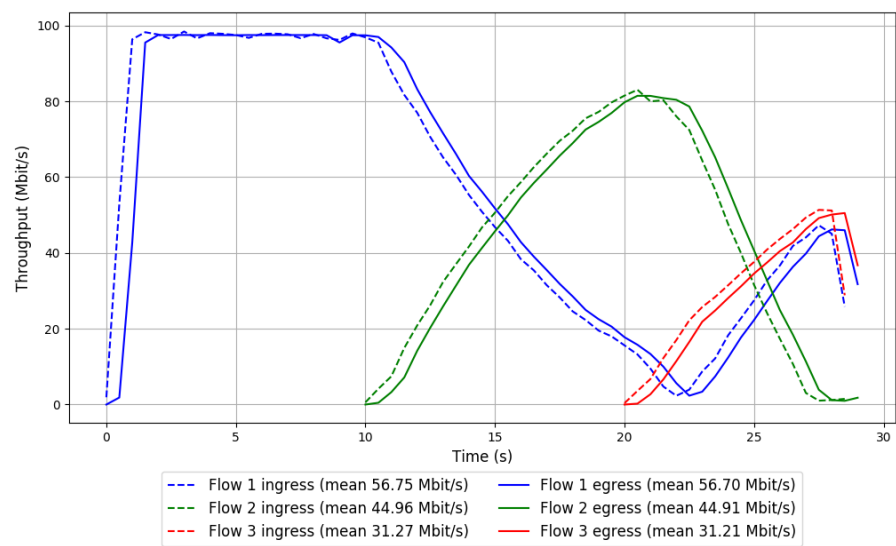


Run 1: Statistics of Indigo-MusesD

Start at: 2019-11-24 07:40:09  
End at: 2019-11-24 07:40:39  
Local clock offset: -0.62 ms  
Remote clock offset: -6.953 ms

# Below is generated by plot.py at 2019-11-24 09:52:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.93 Mbit/s  
95th percentile per-packet one-way delay: 67.208 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 56.70 Mbit/s  
95th percentile per-packet one-way delay: 66.108 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 44.91 Mbit/s  
95th percentile per-packet one-way delay: 66.067 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 31.21 Mbit/s  
95th percentile per-packet one-way delay: 72.040 ms  
Loss rate: 0.00%

Run 1: Report of Indigo-MusesD — Data Link

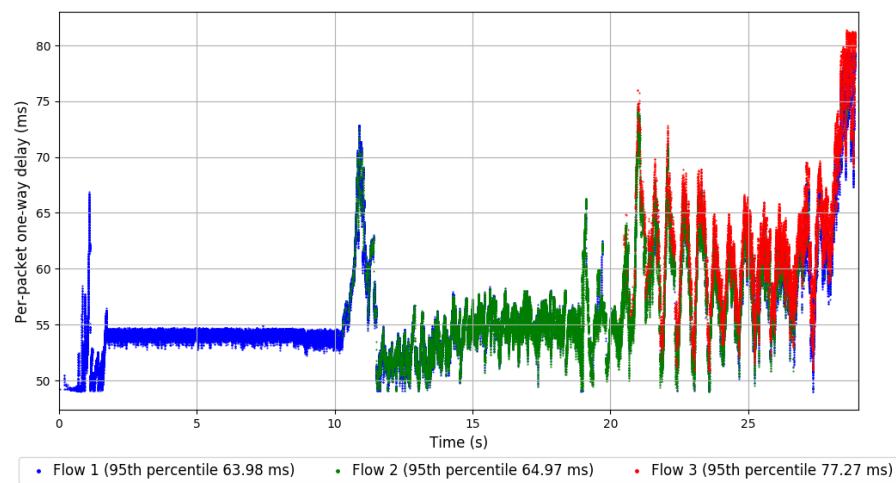
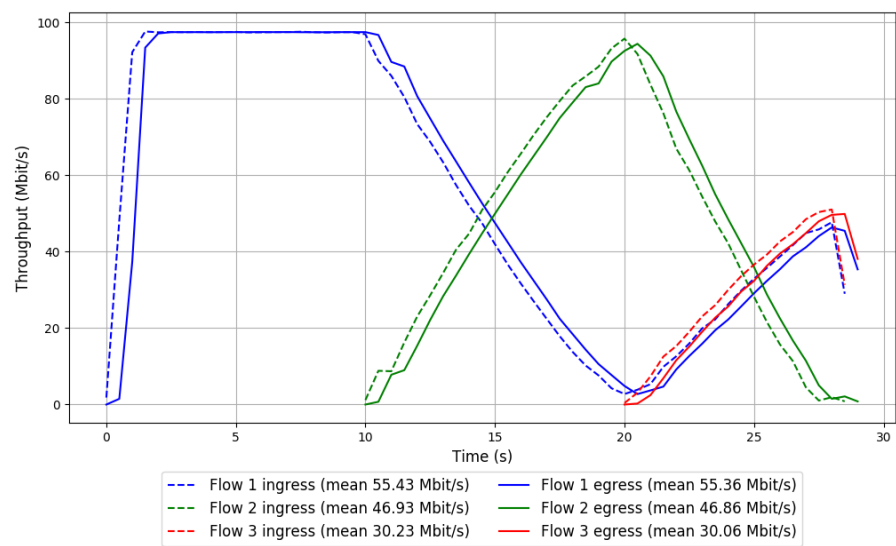


Run 2: Statistics of Indigo-MusesD

Start at: 2019-11-24 08:10:06  
End at: 2019-11-24 08:10:36  
Local clock offset: 0.253 ms  
Remote clock offset: -7.096 ms

# Below is generated by plot.py at 2019-11-24 09:52:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.72 Mbit/s  
95th percentile per-packet one-way delay: 66.231 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 55.36 Mbit/s  
95th percentile per-packet one-way delay: 63.977 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 46.86 Mbit/s  
95th percentile per-packet one-way delay: 64.966 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 30.06 Mbit/s  
95th percentile per-packet one-way delay: 77.274 ms  
Loss rate: 0.28%

Run 2: Report of Indigo-MusesD — Data Link

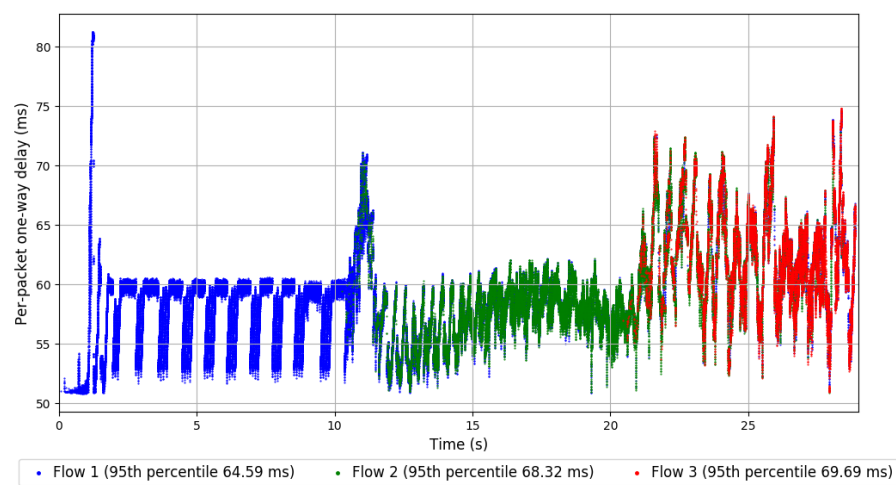
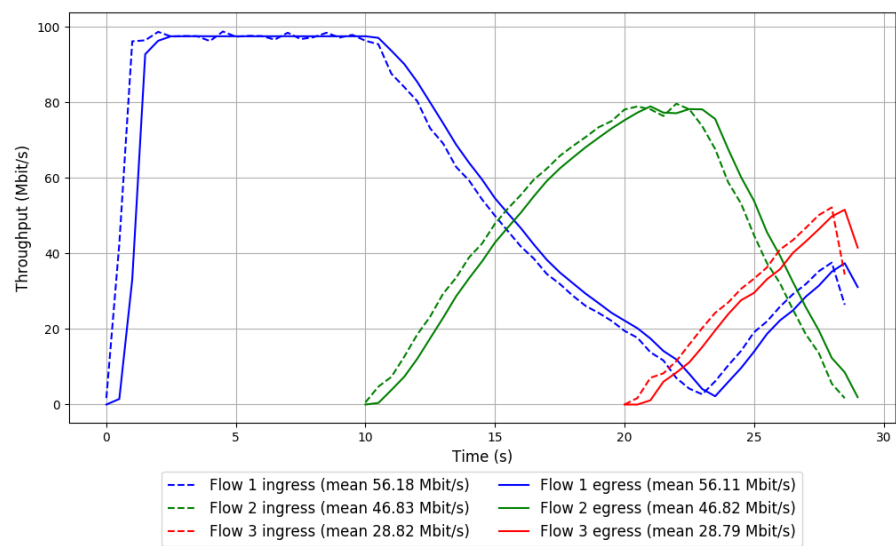


Run 3: Statistics of Indigo-MusesD

Start at: 2019-11-24 08:40:04  
End at: 2019-11-24 08:40:34  
Local clock offset: -0.657 ms  
Remote clock offset: -8.389 ms

# Below is generated by plot.py at 2019-11-24 09:52:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.74 Mbit/s  
95th percentile per-packet one-way delay: 66.982 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 56.11 Mbit/s  
95th percentile per-packet one-way delay: 64.589 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 46.82 Mbit/s  
95th percentile per-packet one-way delay: 68.323 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 28.79 Mbit/s  
95th percentile per-packet one-way delay: 69.695 ms  
Loss rate: 0.00%

Run 3: Report of Indigo-MusesD — Data Link

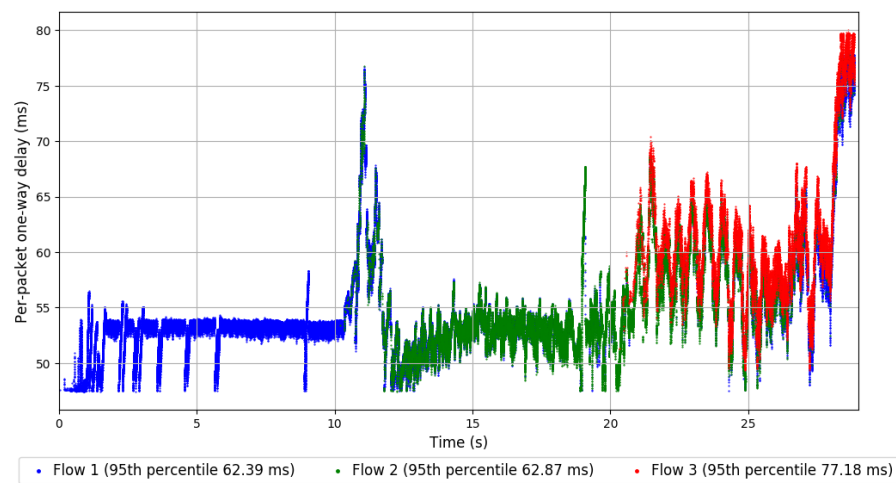
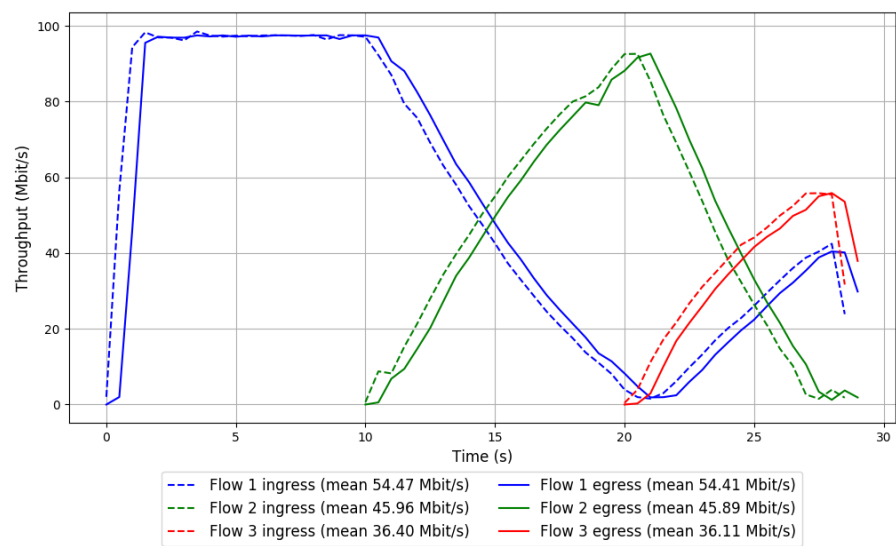


Run 4: Statistics of Indigo-MusesD

Start at: 2019-11-24 09:10:02  
End at: 2019-11-24 09:10:32  
Local clock offset: -0.941 ms  
Remote clock offset: -8.548 ms

# Below is generated by plot.py at 2019-11-24 09:52:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.81 Mbit/s  
95th percentile per-packet one-way delay: 64.862 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 54.41 Mbit/s  
95th percentile per-packet one-way delay: 62.390 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 45.89 Mbit/s  
95th percentile per-packet one-way delay: 62.871 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 36.11 Mbit/s  
95th percentile per-packet one-way delay: 77.176 ms  
Loss rate: 0.52%

Run 4: Report of Indigo-MusesD — Data Link



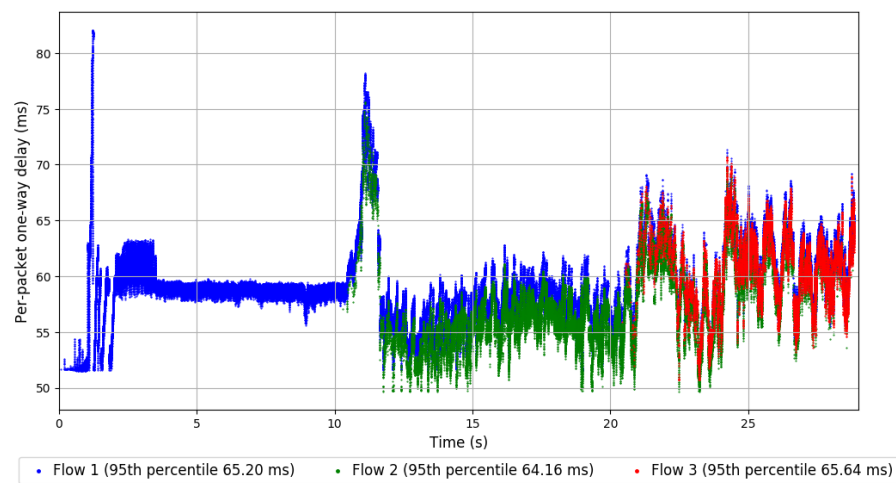
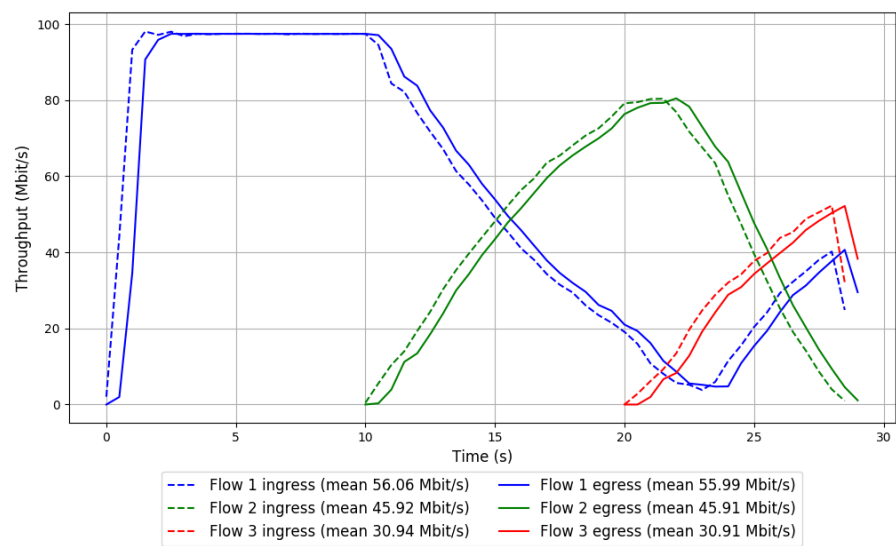


Run 5: Statistics of Indigo-MusesD

Start at: 2019-11-24 09:40:10  
End at: 2019-11-24 09:40:40  
Local clock offset: -0.746 ms  
Remote clock offset: -8.827 ms

# Below is generated by plot.py at 2019-11-24 09:52:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.58 Mbit/s  
95th percentile per-packet one-way delay: 64.947 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 55.99 Mbit/s  
95th percentile per-packet one-way delay: 65.202 ms  
Loss rate: 0.09%  
-- Flow 2:  
Average throughput: 45.91 Mbit/s  
95th percentile per-packet one-way delay: 64.158 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 30.91 Mbit/s  
95th percentile per-packet one-way delay: 65.645 ms  
Loss rate: 0.00%

Run 5: Report of Indigo-MusesD — Data Link

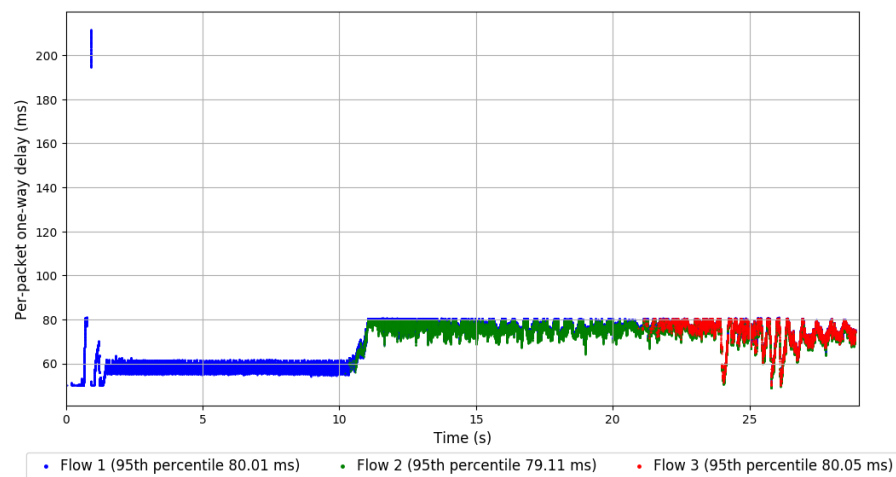
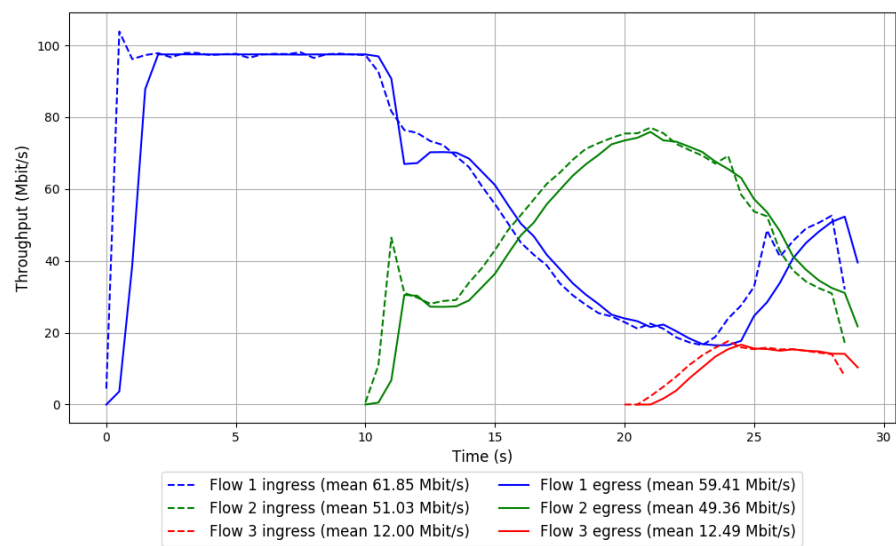


Run 1: Statistics of Indigo-MusesT

Start at: 2019-11-24 07:35:10  
End at: 2019-11-24 07:35:40  
Local clock offset: 0.048 ms  
Remote clock offset: -6.518 ms

# Below is generated by plot.py at 2019-11-24 09:53:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.81 Mbit/s  
95th percentile per-packet one-way delay: 79.744 ms  
Loss rate: 3.57%  
-- Flow 1:  
Average throughput: 59.41 Mbit/s  
95th percentile per-packet one-way delay: 80.014 ms  
Loss rate: 3.87%  
-- Flow 2:  
Average throughput: 49.36 Mbit/s  
95th percentile per-packet one-way delay: 79.113 ms  
Loss rate: 3.17%  
-- Flow 3:  
Average throughput: 12.49 Mbit/s  
95th percentile per-packet one-way delay: 80.048 ms  
Loss rate: 2.09%

Run 1: Report of Indigo-MusesT — Data Link

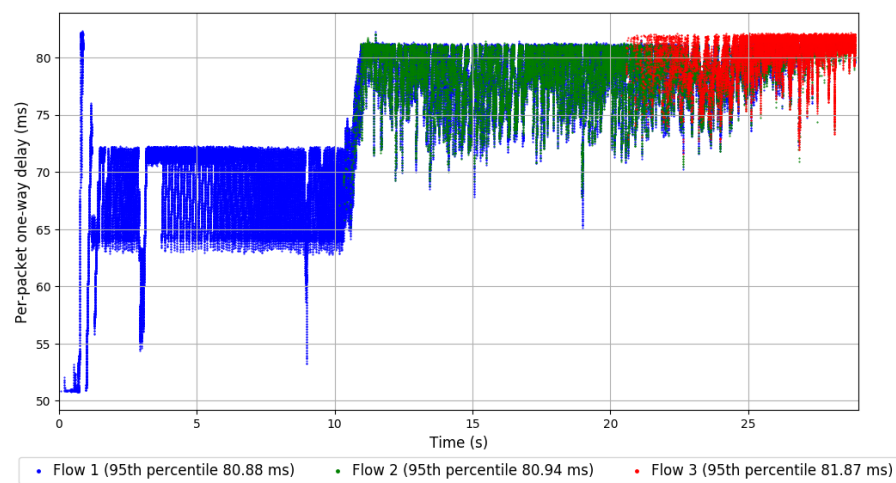
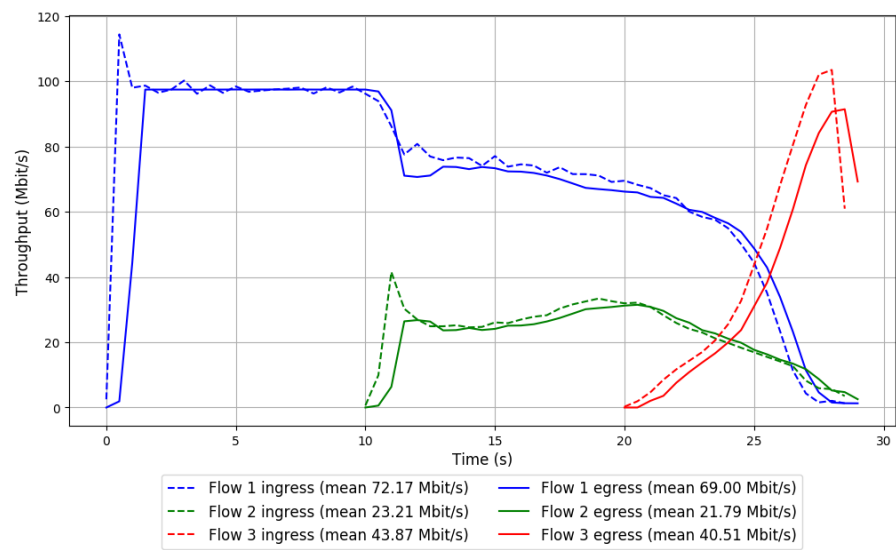


Run 2: Statistics of Indigo-MusesT

Start at: 2019-11-24 08:05:05  
End at: 2019-11-24 08:05:35  
Local clock offset: 0.253 ms  
Remote clock offset: -6.618 ms

# Below is generated by plot.py at 2019-11-24 09:53:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.05 Mbit/s  
95th percentile per-packet one-way delay: 81.474 ms  
Loss rate: 4.98%  
-- Flow 1:  
Average throughput: 69.00 Mbit/s  
95th percentile per-packet one-way delay: 80.875 ms  
Loss rate: 4.29%  
-- Flow 2:  
Average throughput: 21.79 Mbit/s  
95th percentile per-packet one-way delay: 80.936 ms  
Loss rate: 6.03%  
-- Flow 3:  
Average throughput: 40.51 Mbit/s  
95th percentile per-packet one-way delay: 81.872 ms  
Loss rate: 7.61%

Run 2: Report of Indigo-MusesT — Data Link

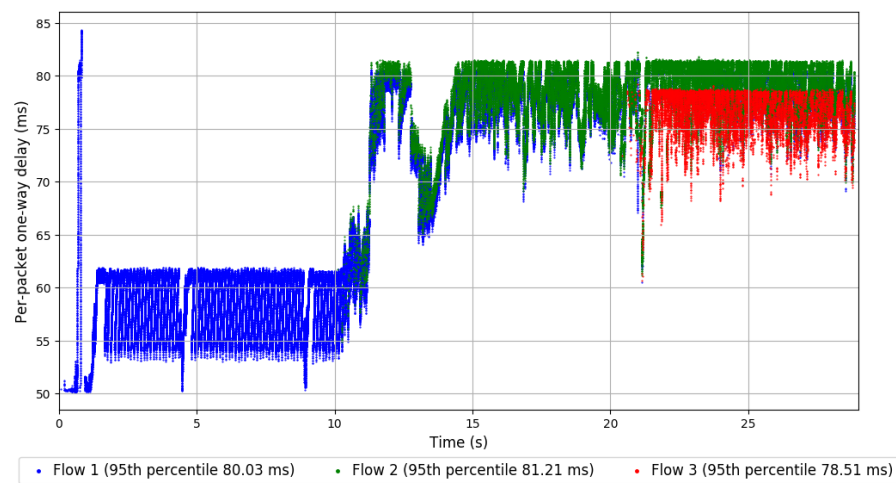
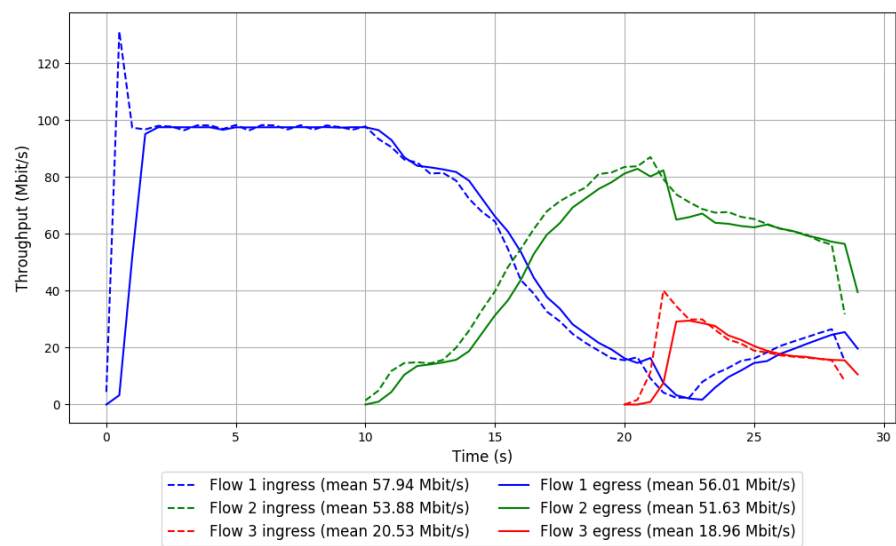


Run 3: Statistics of Indigo-MusesT

Start at: 2019-11-24 08:35:04  
End at: 2019-11-24 08:35:34  
Local clock offset: -1.324 ms  
Remote clock offset: -8.732 ms

# Below is generated by plot.py at 2019-11-24 09:53:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.15 Mbit/s  
95th percentile per-packet one-way delay: 80.981 ms  
Loss rate: 3.80%  
-- Flow 1:  
Average throughput: 56.01 Mbit/s  
95th percentile per-packet one-way delay: 80.031 ms  
Loss rate: 3.22%  
-- Flow 2:  
Average throughput: 51.63 Mbit/s  
95th percentile per-packet one-way delay: 81.206 ms  
Loss rate: 4.09%  
-- Flow 3:  
Average throughput: 18.96 Mbit/s  
95th percentile per-packet one-way delay: 78.508 ms  
Loss rate: 7.61%

Run 3: Report of Indigo-MusesT — Data Link





Run 4: Statistics of Indigo-MusesT

Start at: 2019-11-24 09:05:02

End at: 2019-11-24 09:05:32

Local clock offset: -0.956 ms

Remote clock offset: -7.97 ms

# Below is generated by plot.py at 2019-11-24 09:53:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.31 Mbit/s

95th percentile per-packet one-way delay: 80.542 ms

Loss rate: 6.91%

-- Flow 1:

Average throughput: 50.50 Mbit/s

95th percentile per-packet one-way delay: 78.932 ms

Loss rate: 4.83%

-- Flow 2:

Average throughput: 35.39 Mbit/s

95th percentile per-packet one-way delay: 81.019 ms

Loss rate: 5.51%

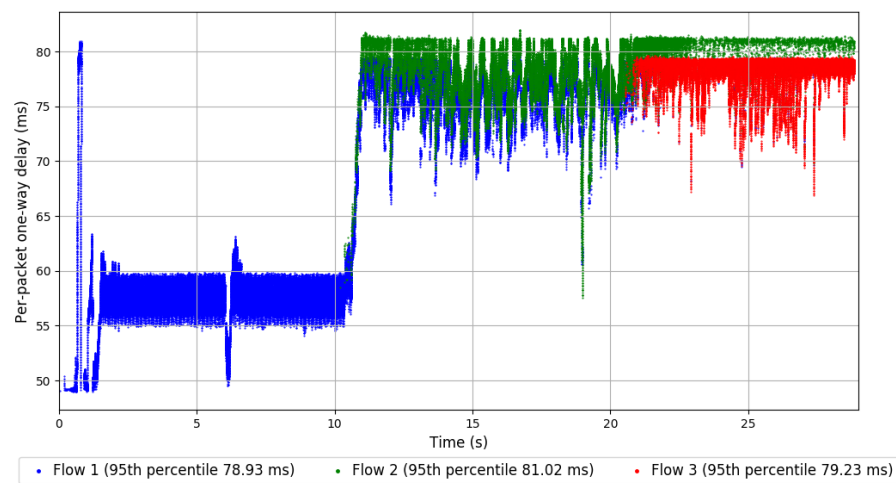
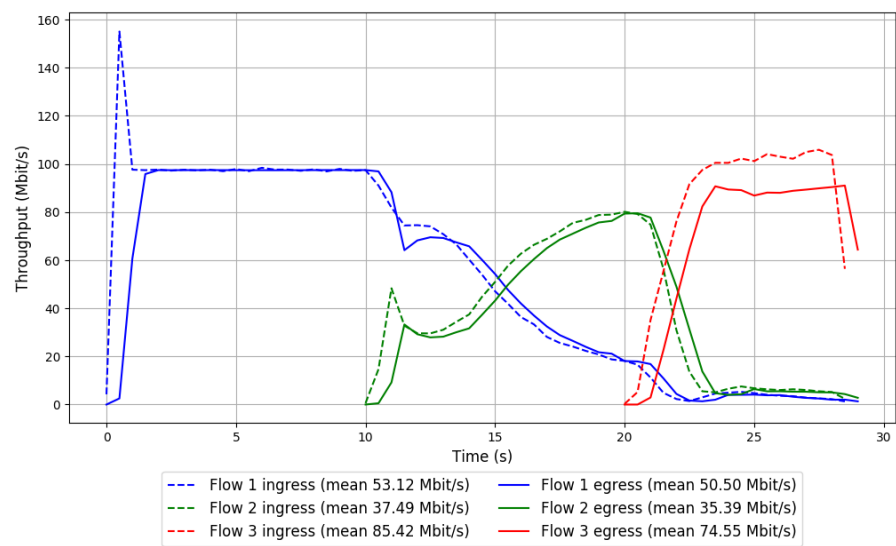
-- Flow 3:

Average throughput: 74.55 Mbit/s

95th percentile per-packet one-way delay: 79.231 ms

Loss rate: 12.68%

Run 4: Report of Indigo-MusesT — Data Link

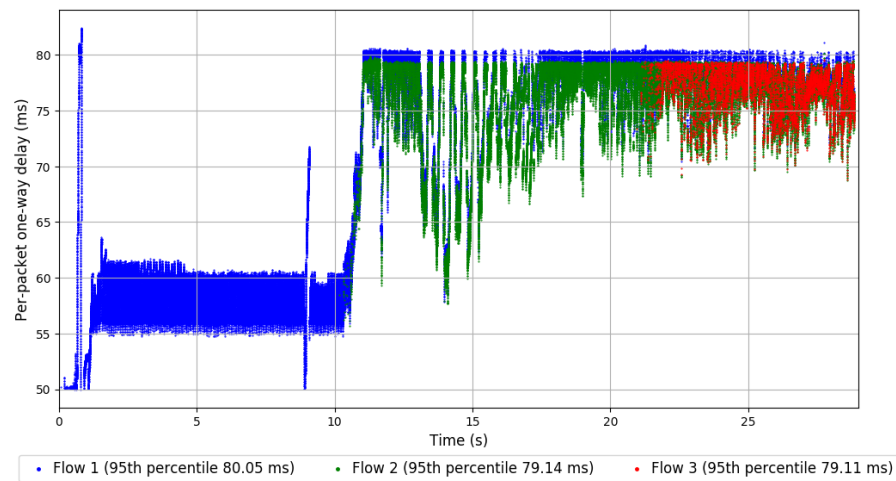
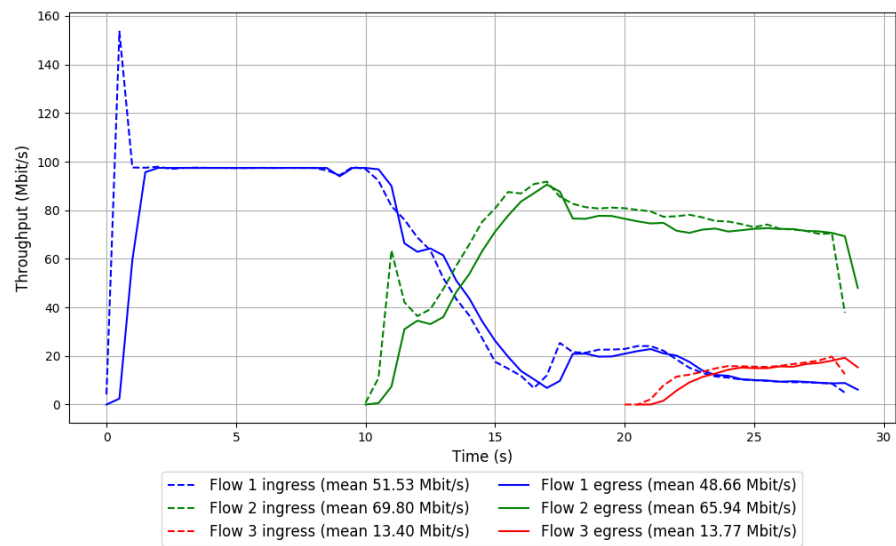


Run 5: Statistics of Indigo-MusesT

Start at: 2019-11-24 09:35:10  
End at: 2019-11-24 09:35:40  
Local clock offset: -0.021 ms  
Remote clock offset: -8.444 ms

# Below is generated by plot.py at 2019-11-24 09:53:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.19 Mbit/s  
95th percentile per-packet one-way delay: 79.607 ms  
Loss rate: 5.39%  
-- Flow 1:  
Average throughput: 48.66 Mbit/s  
95th percentile per-packet one-way delay: 80.051 ms  
Loss rate: 5.49%  
-- Flow 2:  
Average throughput: 65.94 Mbit/s  
95th percentile per-packet one-way delay: 79.140 ms  
Loss rate: 5.44%  
-- Flow 3:  
Average throughput: 13.77 Mbit/s  
95th percentile per-packet one-way delay: 79.112 ms  
Loss rate: 3.32%

Run 5: Report of Indigo-MusesT — Data Link

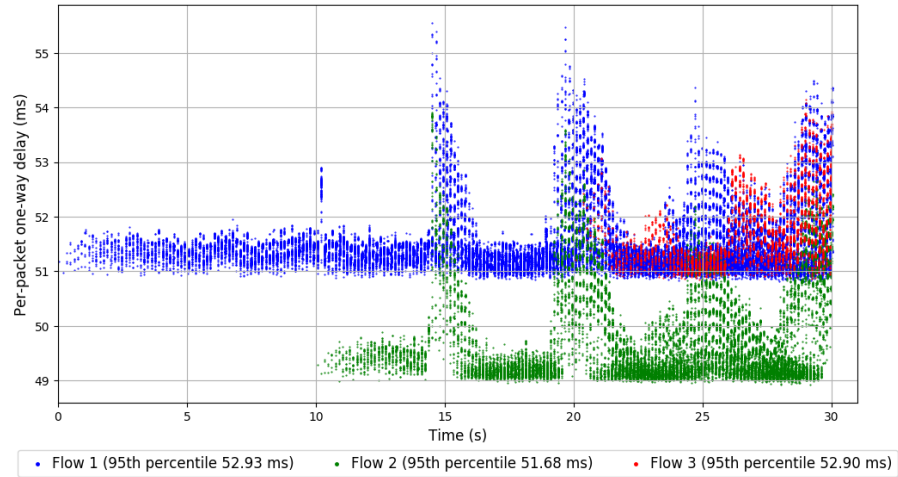
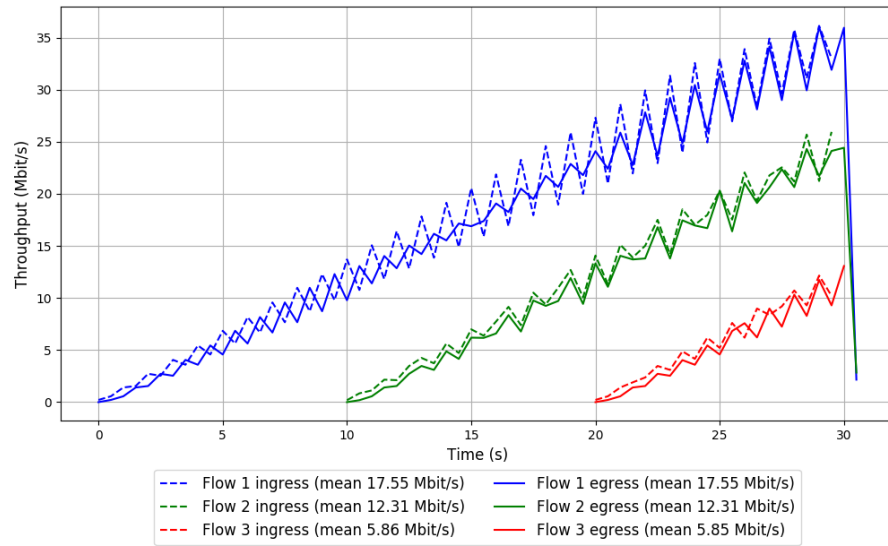


Run 1: Statistics of LEDBAT

Start at: 2019-11-24 07:21:34  
End at: 2019-11-24 07:22:04  
Local clock offset: -0.288 ms  
Remote clock offset: -7.656 ms

# Below is generated by plot.py at 2019-11-24 09:53:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 27.69 Mbit/s  
95th percentile per-packet one-way delay: 52.718 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 17.55 Mbit/s  
95th percentile per-packet one-way delay: 52.934 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 12.31 Mbit/s  
95th percentile per-packet one-way delay: 51.678 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 5.85 Mbit/s  
95th percentile per-packet one-way delay: 52.898 ms  
Loss rate: 0.00%

## Run 1: Report of LEDBAT — Data Link

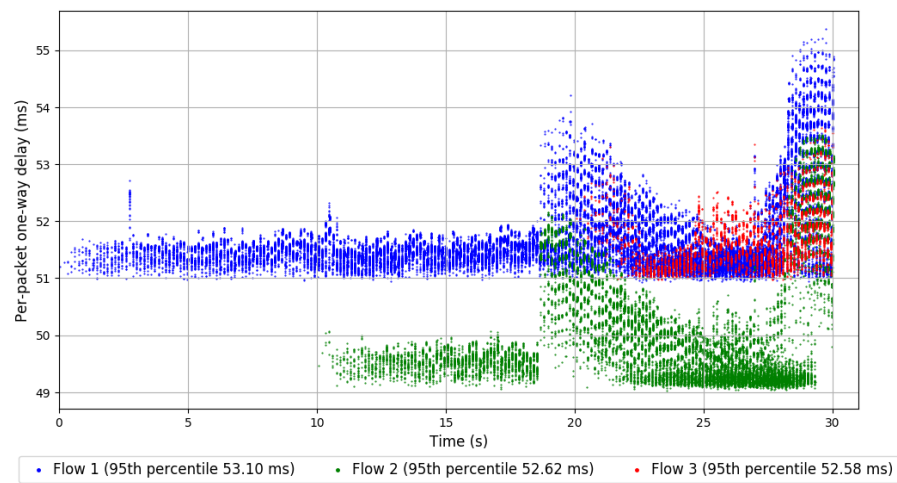
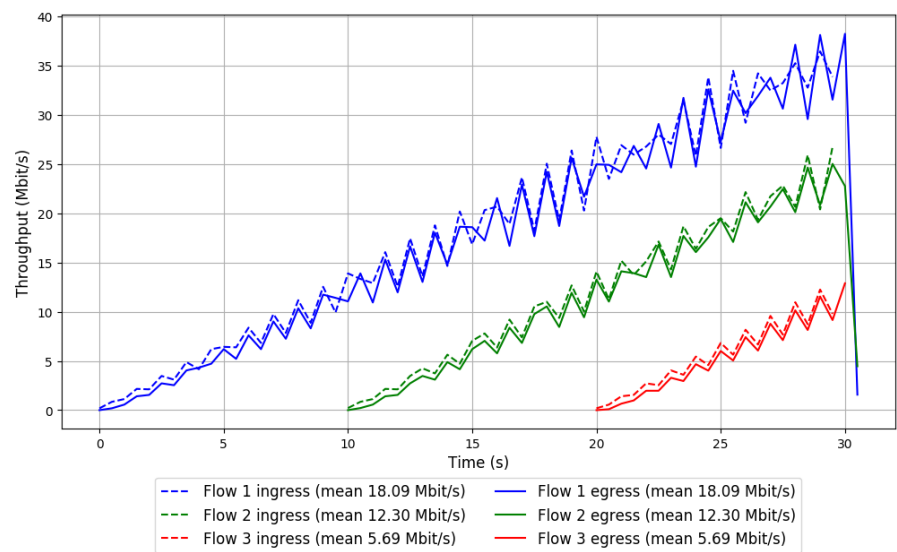


Run 2: Statistics of LEDBAT

Start at: 2019-11-24 07:51:28  
End at: 2019-11-24 07:51:58  
Local clock offset: -0.074 ms  
Remote clock offset: -7.127 ms

# Below is generated by plot.py at 2019-11-24 09:53:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 28.16 Mbit/s  
95th percentile per-packet one-way delay: 52.928 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 18.09 Mbit/s  
95th percentile per-packet one-way delay: 53.096 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 12.30 Mbit/s  
95th percentile per-packet one-way delay: 52.616 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 5.69 Mbit/s  
95th percentile per-packet one-way delay: 52.584 ms  
Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link



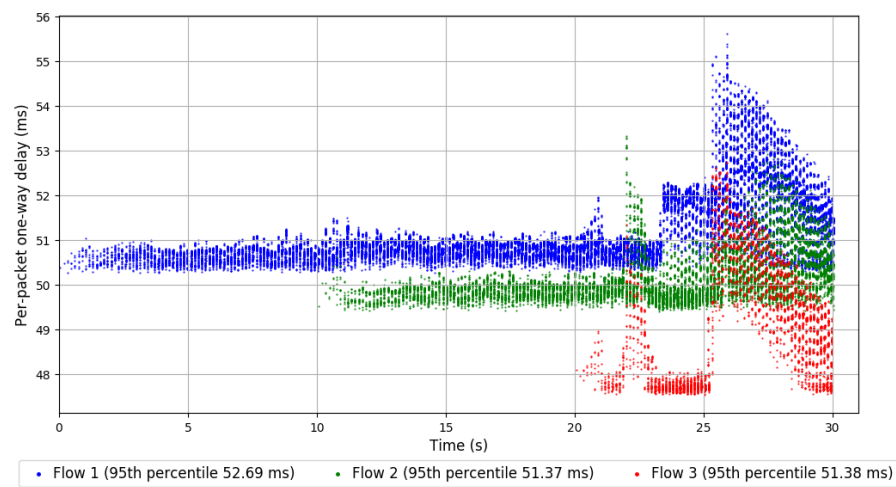
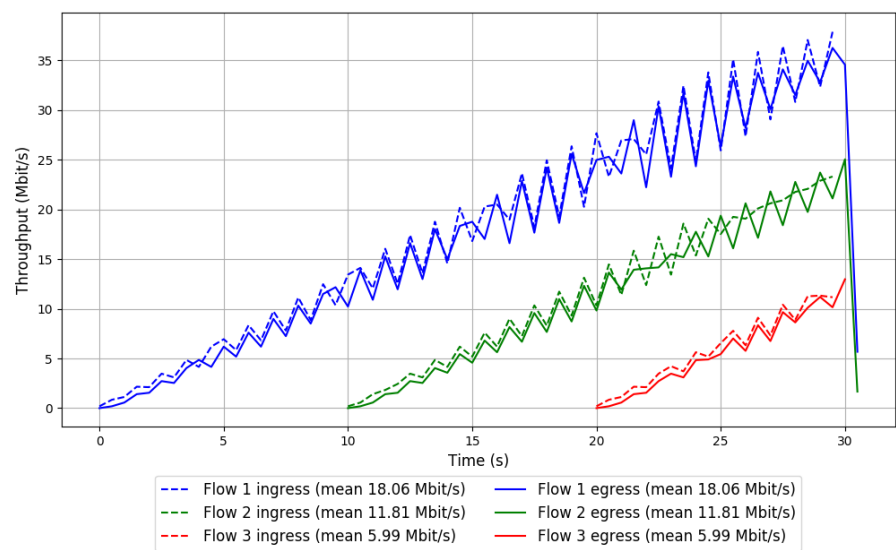


Run 3: Statistics of LEDBAT

Start at: 2019-11-24 08:21:27  
End at: 2019-11-24 08:21:57  
Local clock offset: -0.164 ms  
Remote clock offset: -7.236 ms

# Below is generated by plot.py at 2019-11-24 09:53:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 27.91 Mbit/s  
95th percentile per-packet one-way delay: 52.438 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 18.06 Mbit/s  
95th percentile per-packet one-way delay: 52.690 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 11.81 Mbit/s  
95th percentile per-packet one-way delay: 51.368 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 5.99 Mbit/s  
95th percentile per-packet one-way delay: 51.385 ms  
Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link

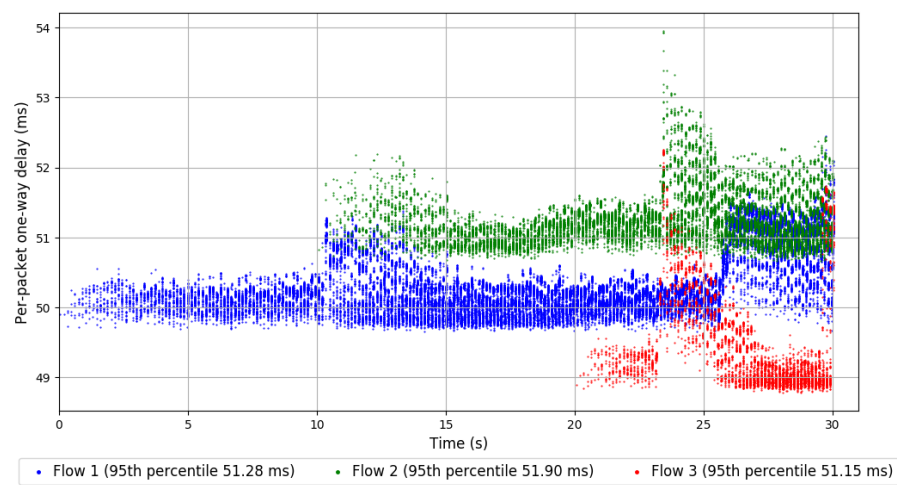
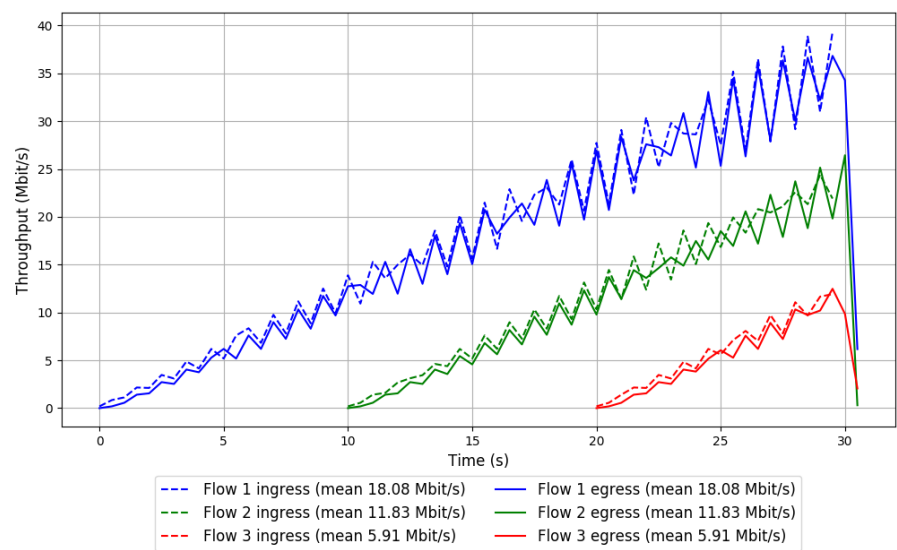


Run 4: Statistics of LEDBAT

Start at: 2019-11-24 08:51:26  
End at: 2019-11-24 08:51:56  
Local clock offset: -1.586 ms  
Remote clock offset: -8.592 ms

# Below is generated by plot.py at 2019-11-24 09:53:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 27.91 Mbit/s  
95th percentile per-packet one-way delay: 51.499 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 18.08 Mbit/s  
95th percentile per-packet one-way delay: 51.276 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 11.83 Mbit/s  
95th percentile per-packet one-way delay: 51.904 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 5.91 Mbit/s  
95th percentile per-packet one-way delay: 51.153 ms  
Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link

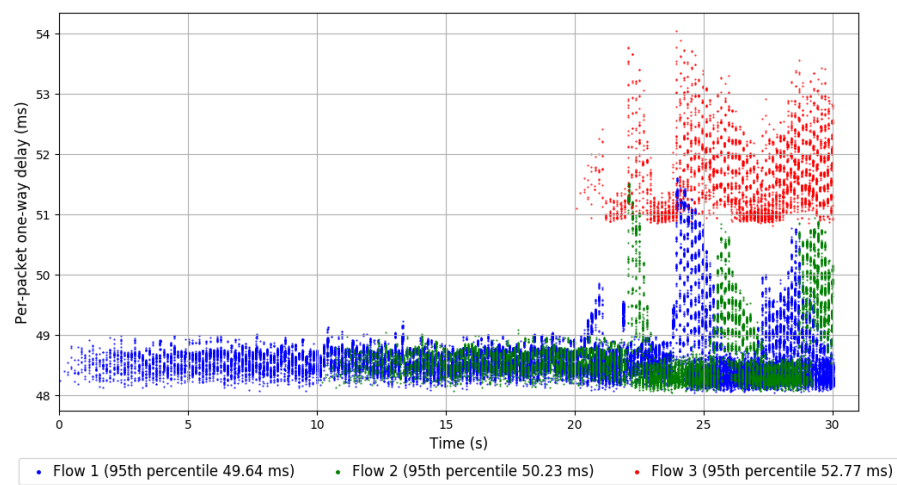
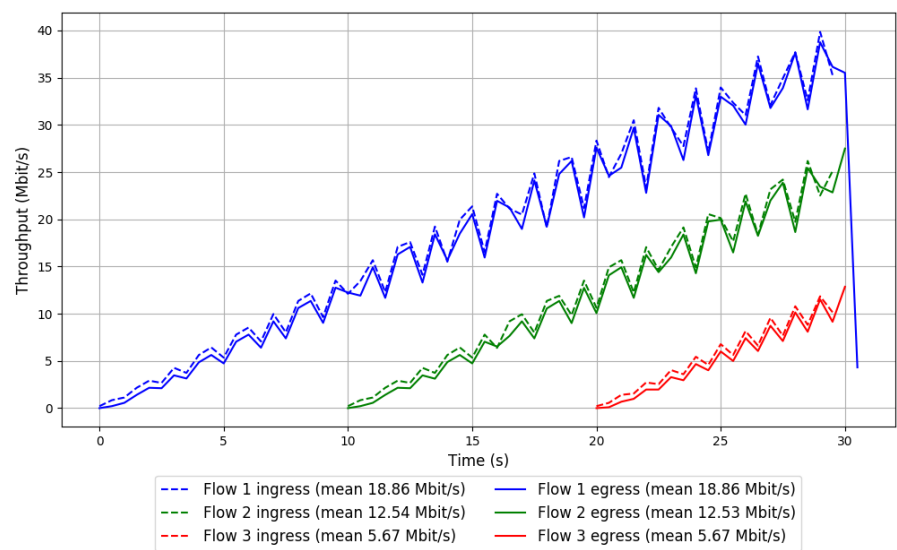


Run 5: Statistics of LEDBAT

Start at: 2019-11-24 09:21:33  
End at: 2019-11-24 09:22:03  
Local clock offset: -1.001 ms  
Remote clock offset: -8.439 ms

# Below is generated by plot.py at 2019-11-24 09:53:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 29.07 Mbit/s  
95th percentile per-packet one-way delay: 51.253 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 18.86 Mbit/s  
95th percentile per-packet one-way delay: 49.644 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 12.53 Mbit/s  
95th percentile per-packet one-way delay: 50.226 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 5.67 Mbit/s  
95th percentile per-packet one-way delay: 52.768 ms  
Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of Muses\\_DecisionTree

Start at: 2019-11-24 07:22:48

End at: 2019-11-24 07:23:18

Local clock offset: -0.266 ms

Remote clock offset: -7.52 ms

# Below is generated by plot.py at 2019-11-24 09:54:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.28 Mbit/s

95th percentile per-packet one-way delay: 73.522 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 48.87 Mbit/s

95th percentile per-packet one-way delay: 73.575 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 46.53 Mbit/s

95th percentile per-packet one-way delay: 73.898 ms

Loss rate: 0.33%

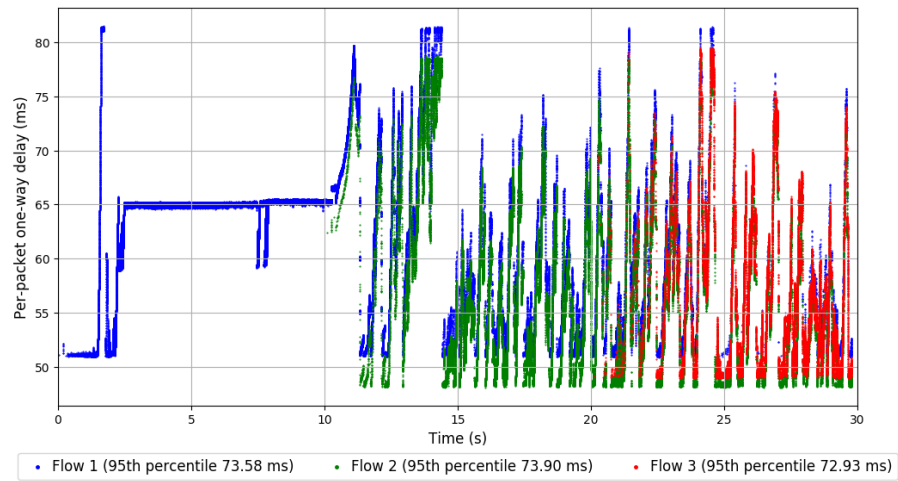
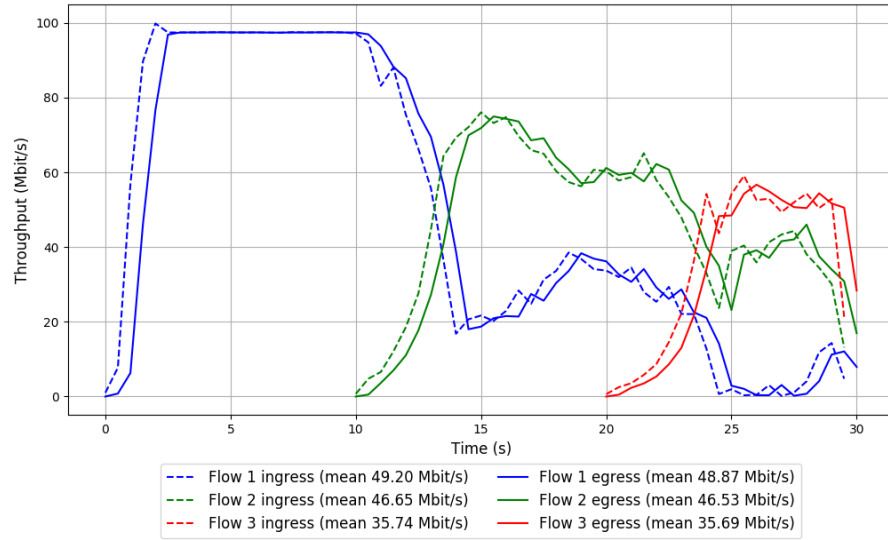
-- Flow 3:

Average throughput: 35.69 Mbit/s

95th percentile per-packet one-way delay: 72.932 ms

Loss rate: 0.13%

# Run 1: Report of Muses\_DecisionTree — Data Link



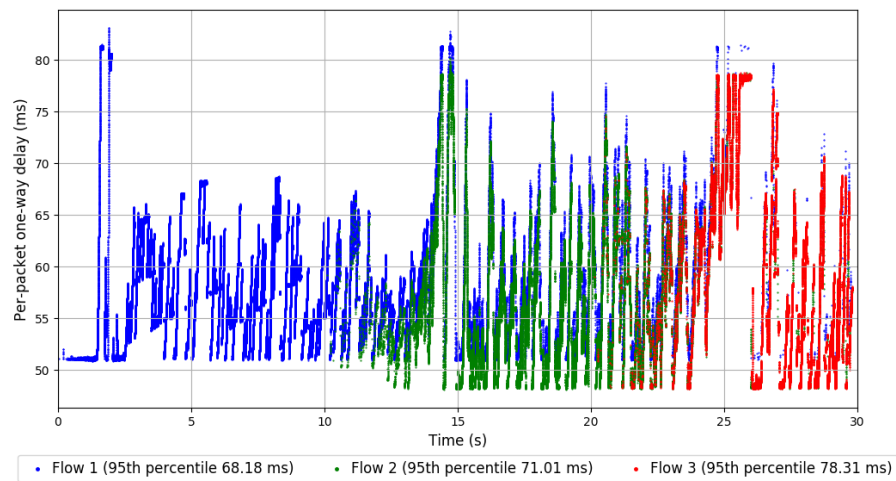
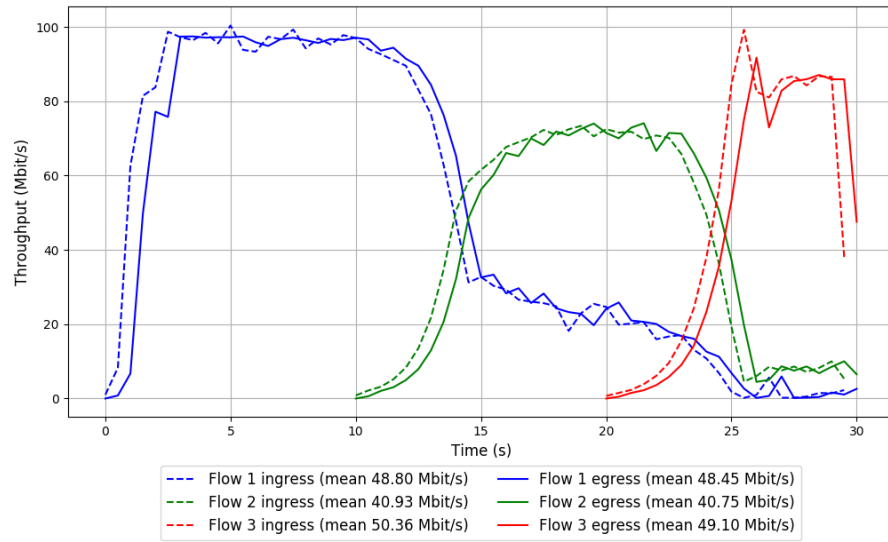


Run 2: Statistics of Muses\\_DecisionTree

Start at: 2019-11-24 07:52:41  
End at: 2019-11-24 07:53:11  
Local clock offset: -0.035 ms  
Remote clock offset: -7.197 ms

# Below is generated by plot.py at 2019-11-24 09:54:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.32 Mbit/s  
95th percentile per-packet one-way delay: 73.637 ms  
Loss rate: 0.94%  
-- Flow 1:  
Average throughput: 48.45 Mbit/s  
95th percentile per-packet one-way delay: 68.183 ms  
Loss rate: 0.69%  
-- Flow 2:  
Average throughput: 40.75 Mbit/s  
95th percentile per-packet one-way delay: 71.007 ms  
Loss rate: 0.45%  
-- Flow 3:  
Average throughput: 49.10 Mbit/s  
95th percentile per-packet one-way delay: 78.307 ms  
Loss rate: 2.52%

## Run 2: Report of Muses\_DecisionTree — Data Link

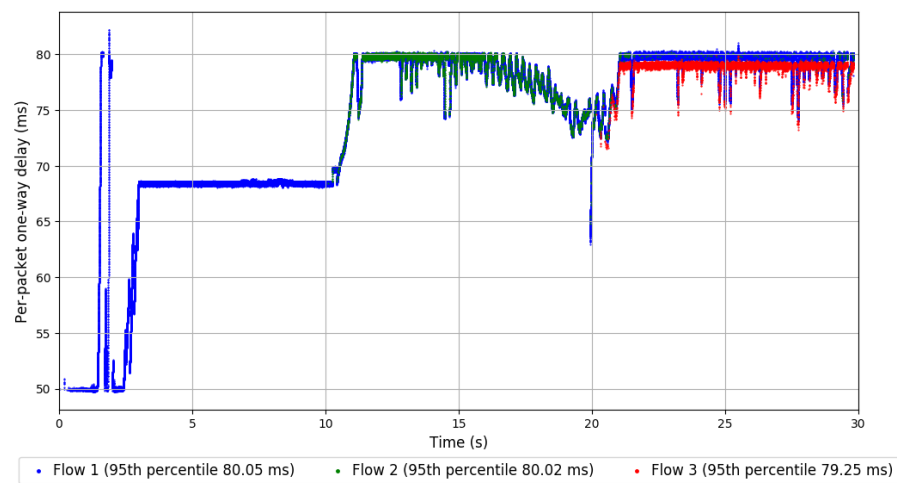
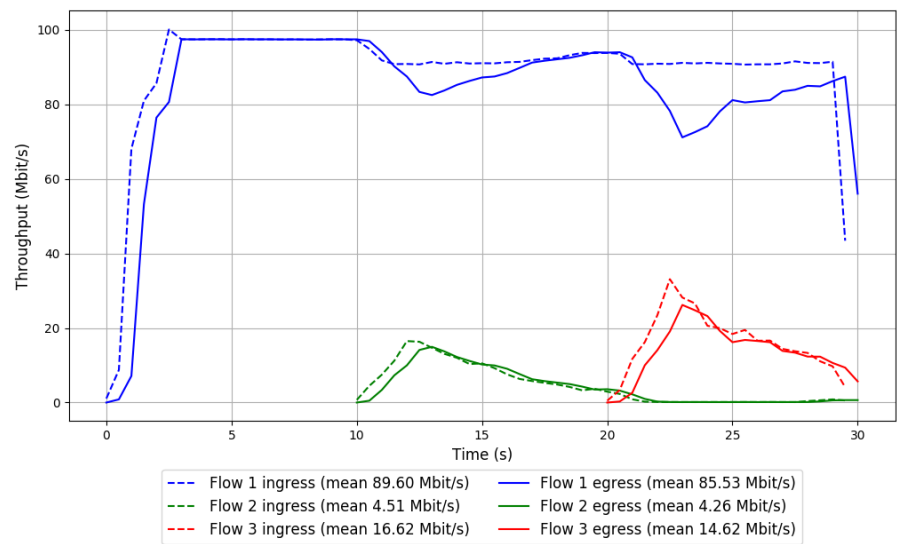


Run 3: Statistics of Muses\\_DecisionTree

Start at: 2019-11-24 08:22:40  
End at: 2019-11-24 08:23:10  
Local clock offset: -0.979 ms  
Remote clock offset: -6.832 ms

# Below is generated by plot.py at 2019-11-24 09:54:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.10 Mbit/s  
95th percentile per-packet one-way delay: 80.048 ms  
Loss rate: 4.89%  
-- Flow 1:  
Average throughput: 85.53 Mbit/s  
95th percentile per-packet one-way delay: 80.050 ms  
Loss rate: 4.45%  
-- Flow 2:  
Average throughput: 4.26 Mbit/s  
95th percentile per-packet one-way delay: 80.023 ms  
Loss rate: 5.42%  
-- Flow 3:  
Average throughput: 14.62 Mbit/s  
95th percentile per-packet one-way delay: 79.248 ms  
Loss rate: 11.99%

Run 3: Report of Muses\_DecisionTree — Data Link

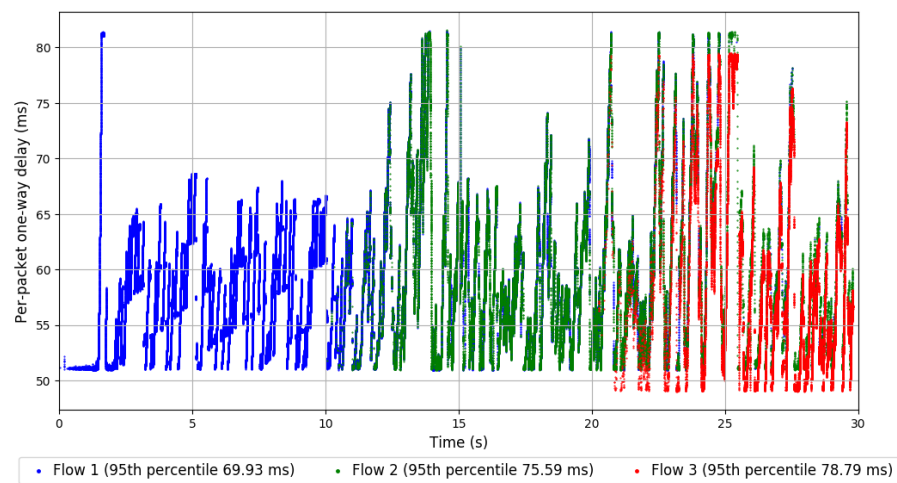
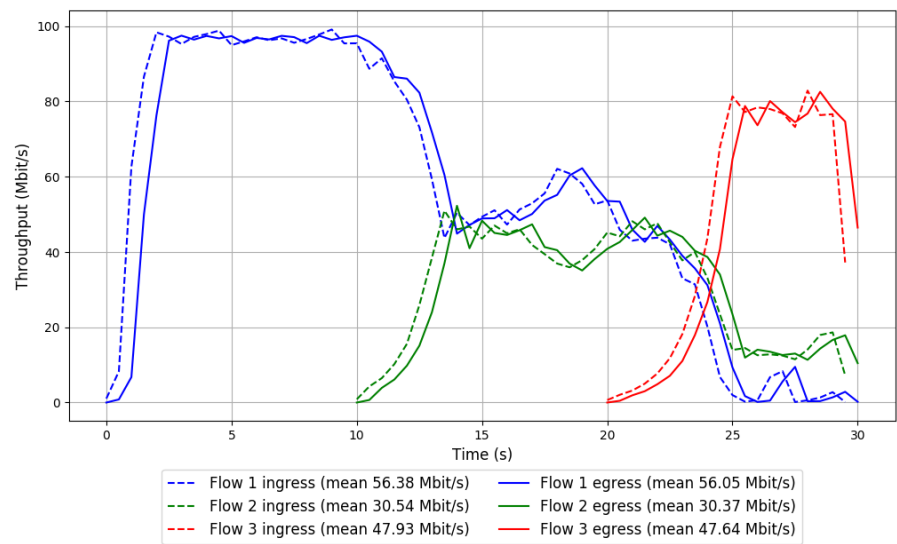


Run 4: Statistics of Muses\\_DecisionTree

Start at: 2019-11-24 08:52:39  
End at: 2019-11-24 08:53:09  
Local clock offset: -1.586 ms  
Remote clock offset: -9.217 ms

# Below is generated by plot.py at 2019-11-24 09:54:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.63 Mbit/s  
95th percentile per-packet one-way delay: 73.871 ms  
Loss rate: 0.56%  
-- Flow 1:  
Average throughput: 56.05 Mbit/s  
95th percentile per-packet one-way delay: 69.934 ms  
Loss rate: 0.57%  
-- Flow 2:  
Average throughput: 30.37 Mbit/s  
95th percentile per-packet one-way delay: 75.593 ms  
Loss rate: 0.51%  
-- Flow 3:  
Average throughput: 47.64 Mbit/s  
95th percentile per-packet one-way delay: 78.793 ms  
Loss rate: 0.57%

Run 4: Report of Muses\_DecisionTree — Data Link

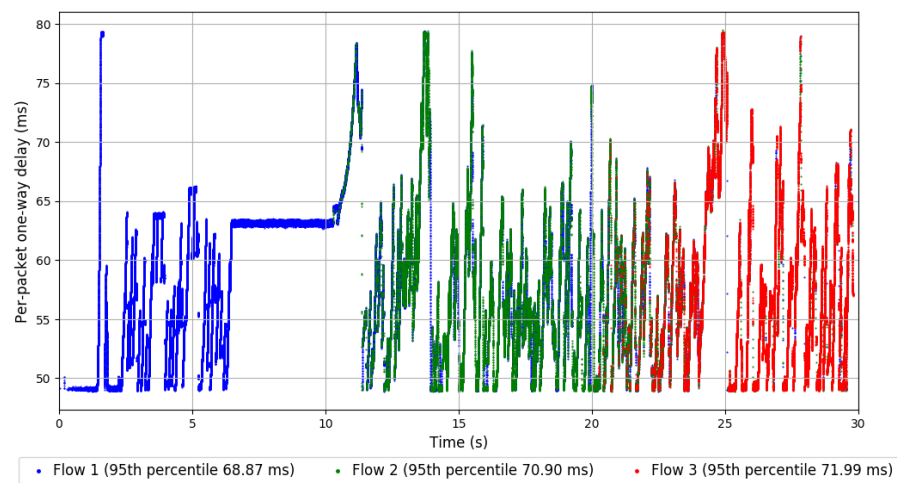
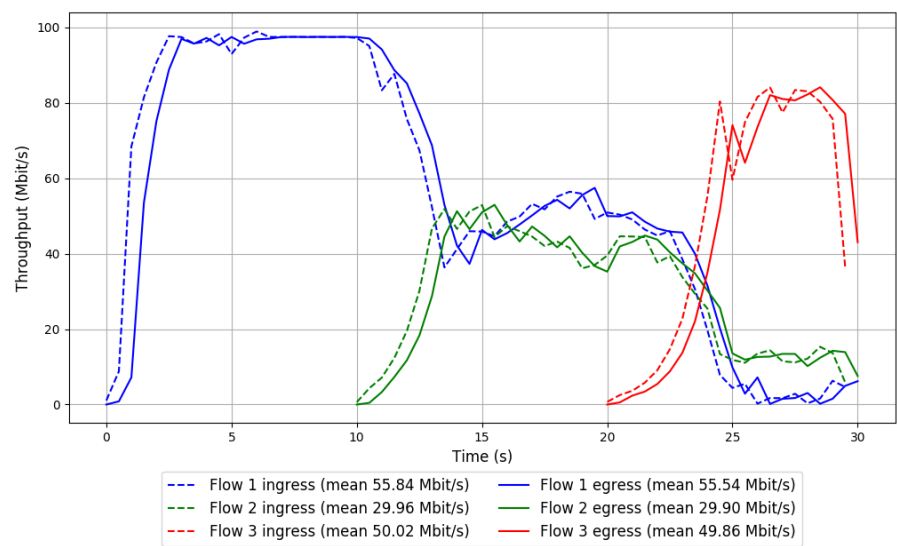


Run 5: Statistics of Muses\\_DecisionTree

Start at: 2019-11-24 09:22:46  
End at: 2019-11-24 09:23:16  
Local clock offset: -0.233 ms  
Remote clock offset: -7.739 ms

# Below is generated by plot.py at 2019-11-24 09:54:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.38 Mbit/s  
95th percentile per-packet one-way delay: 70.350 ms  
Loss rate: 0.39%  
-- Flow 1:  
Average throughput: 55.54 Mbit/s  
95th percentile per-packet one-way delay: 68.868 ms  
Loss rate: 0.50%  
-- Flow 2:  
Average throughput: 29.90 Mbit/s  
95th percentile per-packet one-way delay: 70.898 ms  
Loss rate: 0.22%  
-- Flow 3:  
Average throughput: 49.86 Mbit/s  
95th percentile per-packet one-way delay: 71.991 ms  
Loss rate: 0.24%

Run 5: Report of Muses\_DecisionTree — Data Link



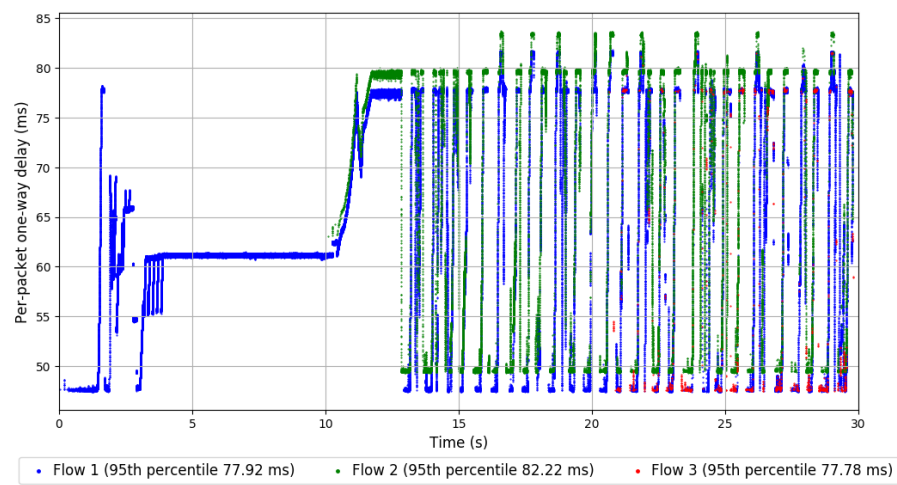
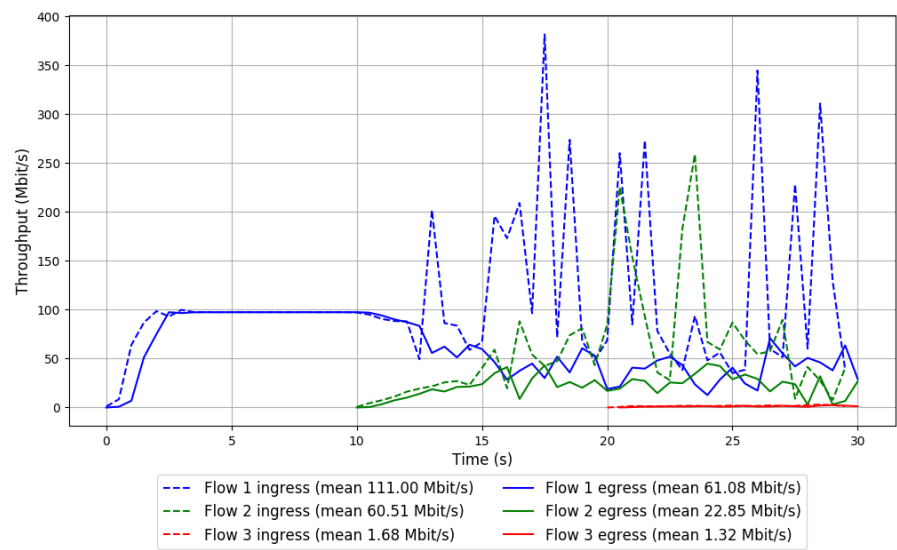


Run 1: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-11-24 07:42:41  
End at: 2019-11-24 07:43:11  
Local clock offset: 0.3 ms  
Remote clock offset: -6.875 ms

# Below is generated by plot.py at 2019-11-24 09:54:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 76.60 Mbit/s  
95th percentile per-packet one-way delay: 79.720 ms  
Loss rate: 49.41%  
-- Flow 1:  
Average throughput: 61.08 Mbit/s  
95th percentile per-packet one-way delay: 77.924 ms  
Loss rate: 44.92%  
-- Flow 2:  
Average throughput: 22.85 Mbit/s  
95th percentile per-packet one-way delay: 82.220 ms  
Loss rate: 62.20%  
-- Flow 3:  
Average throughput: 1.32 Mbit/s  
95th percentile per-packet one-way delay: 77.777 ms  
Loss rate: 25.58%

Run 1: Report of Muses\_DecisionTreeH0 — Data Link

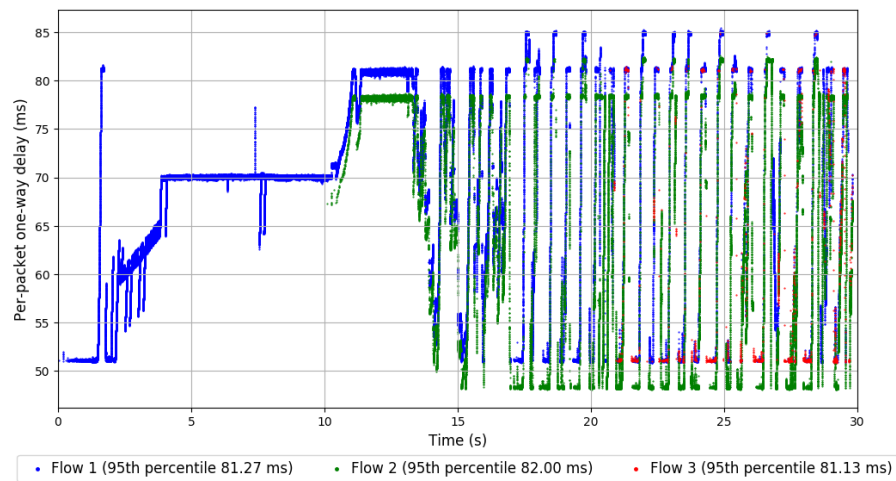
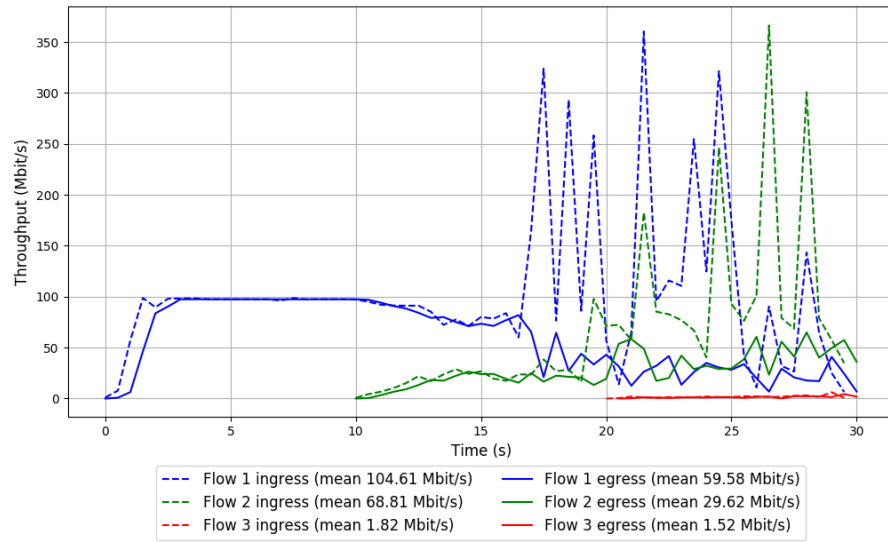


Run 2: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-11-24 08:12:38  
End at: 2019-11-24 08:13:08  
Local clock offset: -0.158 ms  
Remote clock offset: -7.115 ms

# Below is generated by plot.py at 2019-11-24 09:54:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 79.65 Mbit/s  
95th percentile per-packet one-way delay: 81.290 ms  
Loss rate: 47.14%  
-- Flow 1:  
Average throughput: 59.58 Mbit/s  
95th percentile per-packet one-way delay: 81.272 ms  
Loss rate: 43.01%  
-- Flow 2:  
Average throughput: 29.62 Mbit/s  
95th percentile per-packet one-way delay: 82.004 ms  
Loss rate: 56.95%  
-- Flow 3:  
Average throughput: 1.52 Mbit/s  
95th percentile per-packet one-way delay: 81.131 ms  
Loss rate: 20.88%

## Run 2: Report of Muses\_DecisionTreeH0 — Data Link

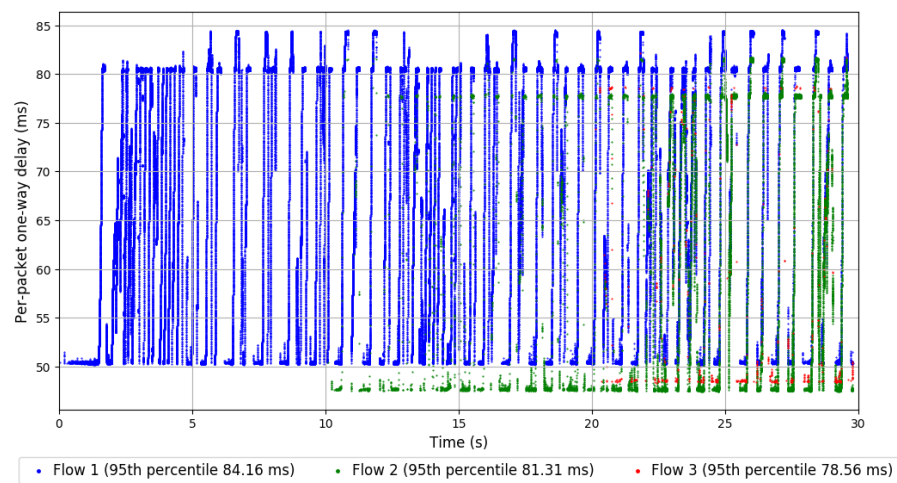
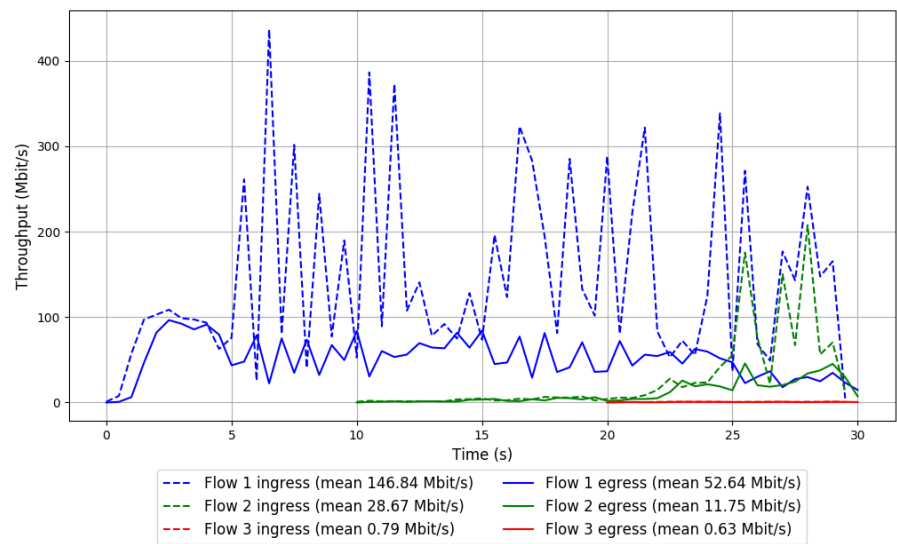


Run 3: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-11-24 08:42:36  
End at: 2019-11-24 08:43:06  
Local clock offset: -0.705 ms  
Remote clock offset: -9.055 ms

# Below is generated by plot.py at 2019-11-24 09:54:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 60.63 Mbit/s  
95th percentile per-packet one-way delay: 84.106 ms  
Loss rate: 63.50%  
-- Flow 1:  
Average throughput: 52.64 Mbit/s  
95th percentile per-packet one-way delay: 84.156 ms  
Loss rate: 64.15%  
-- Flow 2:  
Average throughput: 11.75 Mbit/s  
95th percentile per-packet one-way delay: 81.312 ms  
Loss rate: 59.03%  
-- Flow 3:  
Average throughput: 0.63 Mbit/s  
95th percentile per-packet one-way delay: 78.560 ms  
Loss rate: 20.15%

Run 3: Report of Muses\_DecisionTreeH0 — Data Link

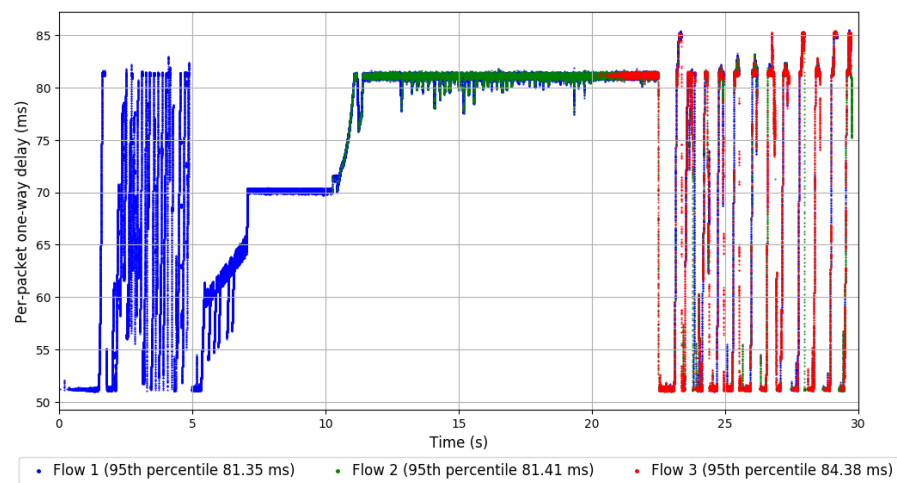
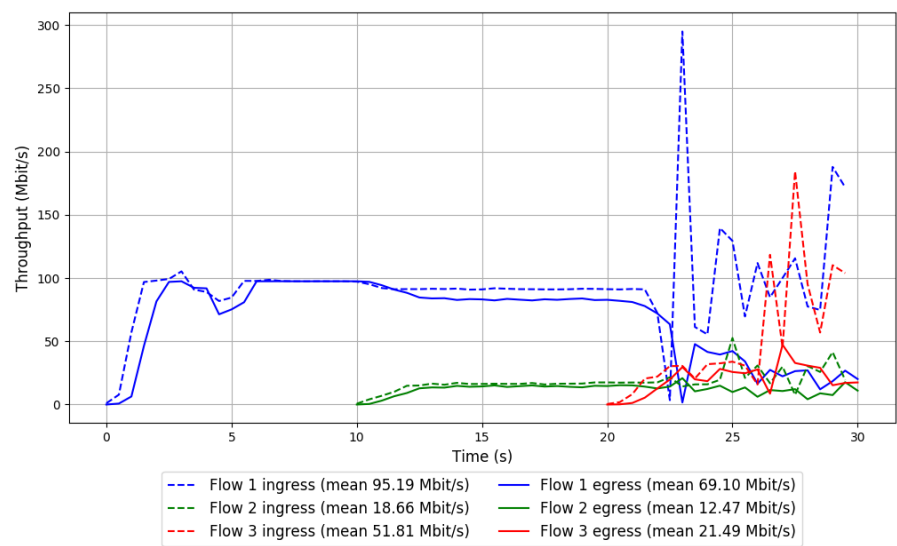


Run 4: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-11-24 09:12:33  
End at: 2019-11-24 09:13:03  
Local clock offset: -0.734 ms  
Remote clock offset: -7.692 ms

# Below is generated by plot.py at 2019-11-24 09:55:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.23 Mbit/s  
95th percentile per-packet one-way delay: 81.376 ms  
Loss rate: 32.11%  
-- Flow 1:  
Average throughput: 69.10 Mbit/s  
95th percentile per-packet one-way delay: 81.349 ms  
Loss rate: 27.33%  
-- Flow 2:  
Average throughput: 12.47 Mbit/s  
95th percentile per-packet one-way delay: 81.405 ms  
Loss rate: 33.16%  
-- Flow 3:  
Average throughput: 21.49 Mbit/s  
95th percentile per-packet one-way delay: 84.378 ms  
Loss rate: 58.53%

Run 4: Report of Muses\_DecisionTreeH0 — Data Link



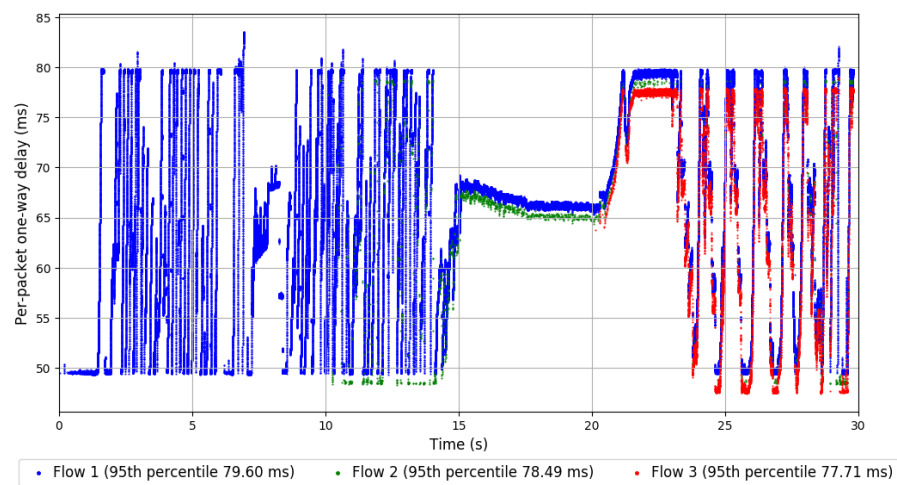
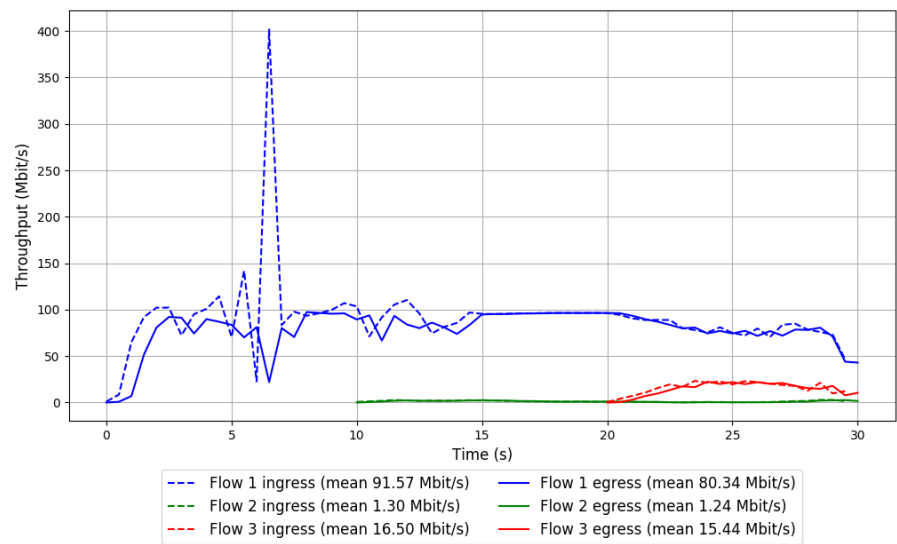


Run 5: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-11-24 09:42:43  
End at: 2019-11-24 09:43:13  
Local clock offset: -0.049 ms  
Remote clock offset: -9.524 ms

# Below is generated by plot.py at 2019-11-24 09:55:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.19 Mbit/s  
95th percentile per-packet one-way delay: 79.592 ms  
Loss rate: 11.78%  
-- Flow 1:  
Average throughput: 80.34 Mbit/s  
95th percentile per-packet one-way delay: 79.599 ms  
Loss rate: 12.17%  
-- Flow 2:  
Average throughput: 1.24 Mbit/s  
95th percentile per-packet one-way delay: 78.486 ms  
Loss rate: 4.69%  
-- Flow 3:  
Average throughput: 15.44 Mbit/s  
95th percentile per-packet one-way delay: 77.711 ms  
Loss rate: 6.33%

Run 5: Report of Muses\_DecisionTreeH0 — Data Link

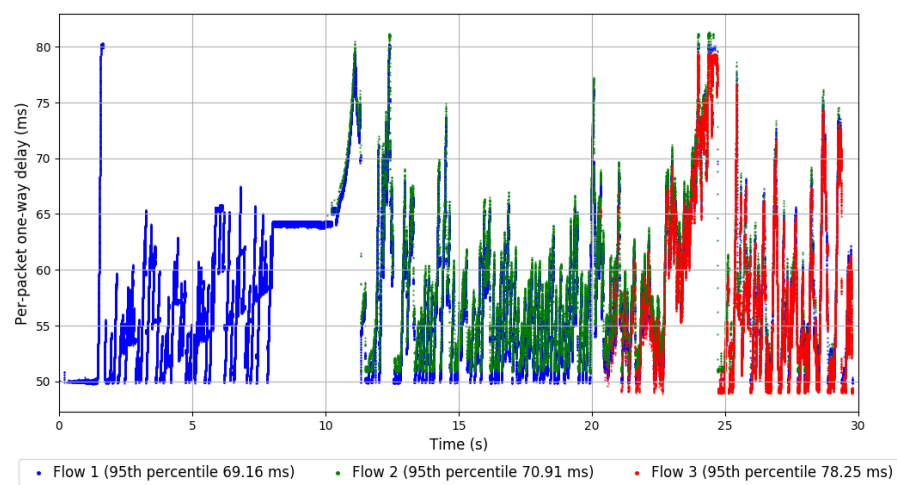
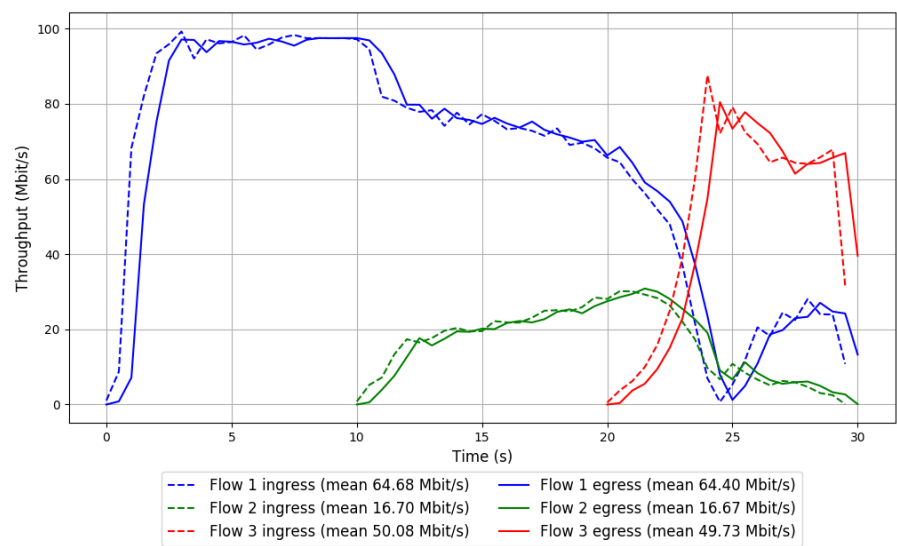


Run 1: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-11-24 07:41:25  
End at: 2019-11-24 07:41:55  
Local clock offset: -0.52 ms  
Remote clock offset: -6.215 ms

# Below is generated by plot.py at 2019-11-24 09:55:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.52 Mbit/s  
95th percentile per-packet one-way delay: 71.801 ms  
Loss rate: 0.46%  
-- Flow 1:  
Average throughput: 64.40 Mbit/s  
95th percentile per-packet one-way delay: 69.159 ms  
Loss rate: 0.43%  
-- Flow 2:  
Average throughput: 16.67 Mbit/s  
95th percentile per-packet one-way delay: 70.906 ms  
Loss rate: 0.20%  
-- Flow 3:  
Average throughput: 49.73 Mbit/s  
95th percentile per-packet one-way delay: 78.245 ms  
Loss rate: 0.78%

Run 1: Report of Muses\_DecisionTreeR0 — Data Link

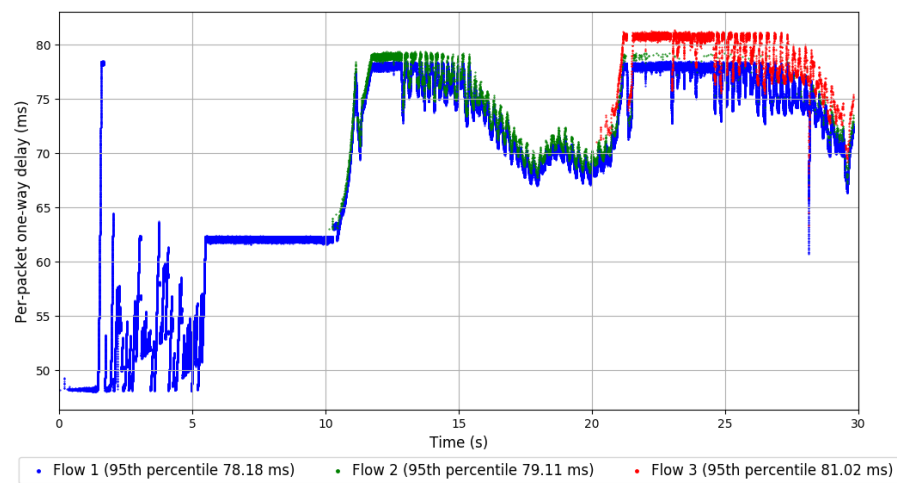
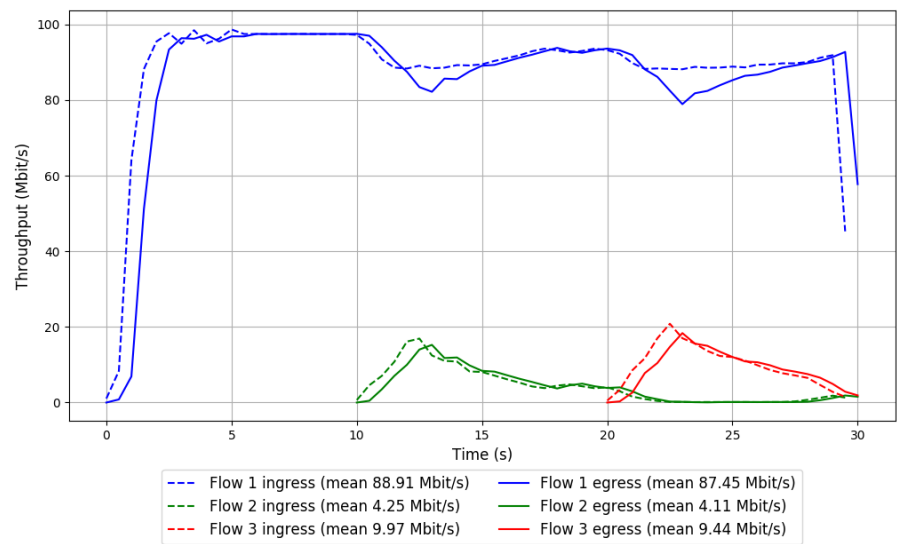


Run 2: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-11-24 08:11:22  
End at: 2019-11-24 08:11:52  
Local clock offset: 0.782 ms  
Remote clock offset: -6.502 ms

# Below is generated by plot.py at 2019-11-24 09:55:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.23 Mbit/s  
95th percentile per-packet one-way delay: 78.244 ms  
Loss rate: 1.74%  
-- Flow 1:  
Average throughput: 87.45 Mbit/s  
95th percentile per-packet one-way delay: 78.180 ms  
Loss rate: 1.56%  
-- Flow 2:  
Average throughput: 4.11 Mbit/s  
95th percentile per-packet one-way delay: 79.105 ms  
Loss rate: 3.45%  
-- Flow 3:  
Average throughput: 9.44 Mbit/s  
95th percentile per-packet one-way delay: 81.017 ms  
Loss rate: 5.28%

Run 2: Report of Muses\_DecisionTreeR0 — Data Link

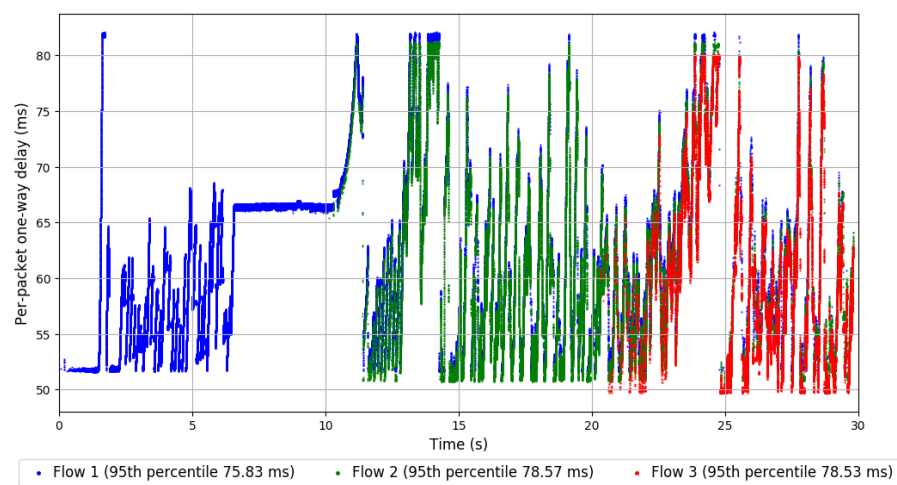
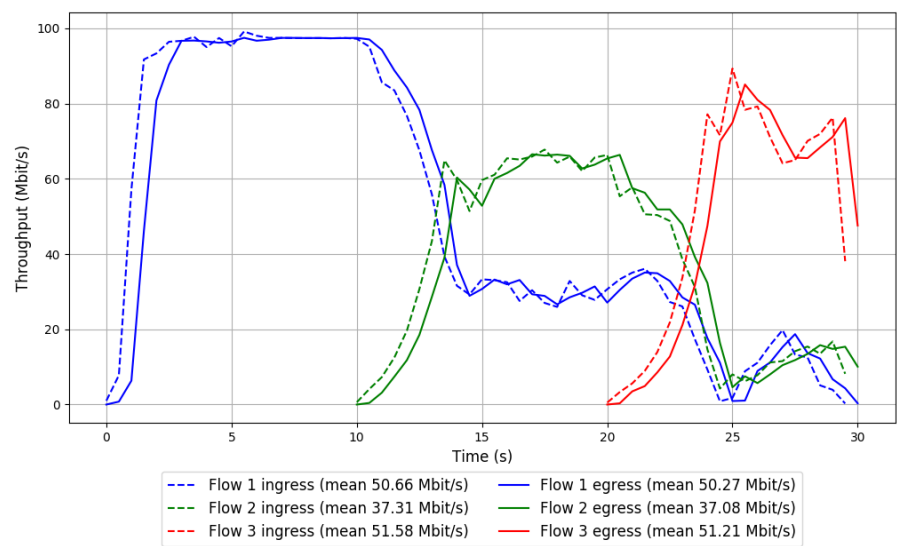


Run 3: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-11-24 08:41:20  
End at: 2019-11-24 08:41:50  
Local clock offset: -1.435 ms  
Remote clock offset: -8.399 ms

# Below is generated by plot.py at 2019-11-24 09:55:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.33 Mbit/s  
95th percentile per-packet one-way delay: 77.109 ms  
Loss rate: 0.68%  
-- Flow 1:  
Average throughput: 50.27 Mbit/s  
95th percentile per-packet one-way delay: 75.829 ms  
Loss rate: 0.73%  
-- Flow 2:  
Average throughput: 37.08 Mbit/s  
95th percentile per-packet one-way delay: 78.574 ms  
Loss rate: 0.63%  
-- Flow 3:  
Average throughput: 51.21 Mbit/s  
95th percentile per-packet one-way delay: 78.529 ms  
Loss rate: 0.63%

Run 3: Report of Muses\_DecisionTreeR0 — Data Link



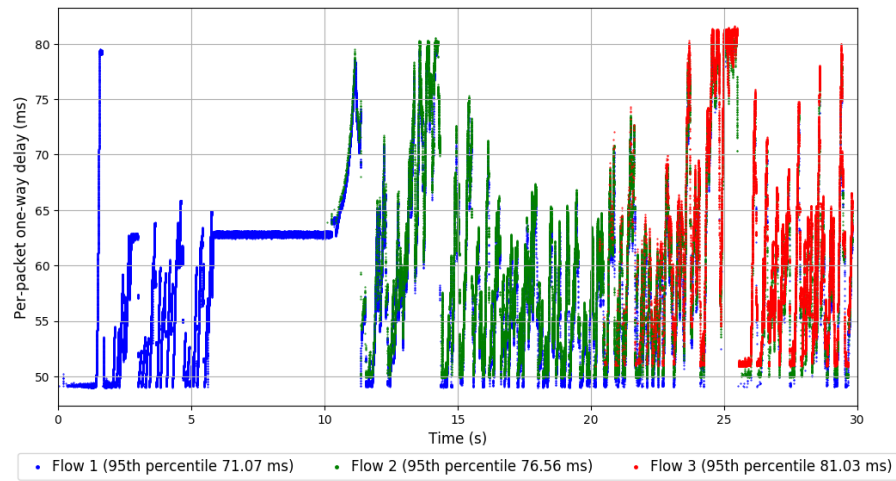
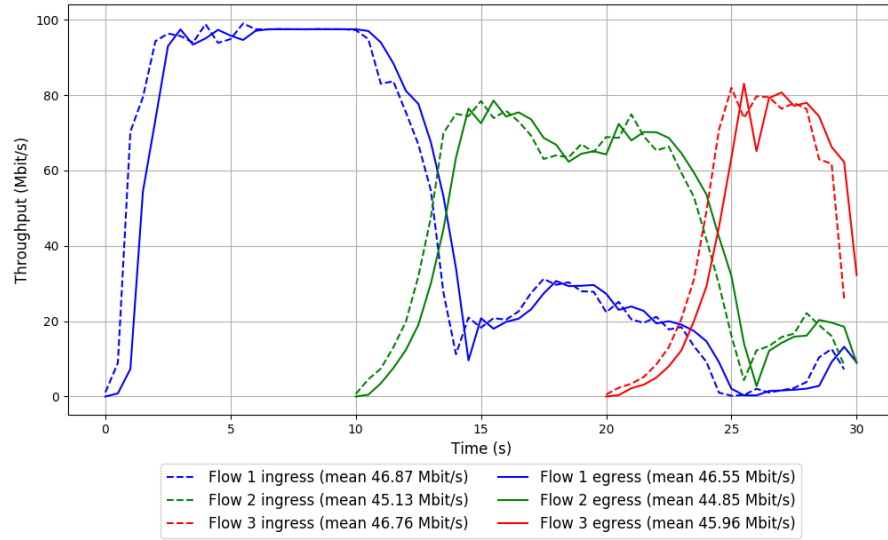


Run 4: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-11-24 09:11:17  
End at: 2019-11-24 09:11:48  
Local clock offset: -1.579 ms  
Remote clock offset: -7.735 ms

# Below is generated by plot.py at 2019-11-24 09:55:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.13 Mbit/s  
95th percentile per-packet one-way delay: 76.367 ms  
Loss rate: 0.78%  
-- Flow 1:  
Average throughput: 46.55 Mbit/s  
95th percentile per-packet one-way delay: 71.067 ms  
Loss rate: 0.63%  
-- Flow 2:  
Average throughput: 44.85 Mbit/s  
95th percentile per-packet one-way delay: 76.558 ms  
Loss rate: 0.63%  
-- Flow 3:  
Average throughput: 45.96 Mbit/s  
95th percentile per-packet one-way delay: 81.035 ms  
Loss rate: 1.56%

# Run 4: Report of Muses\_DecisionTreeR0 — Data Link

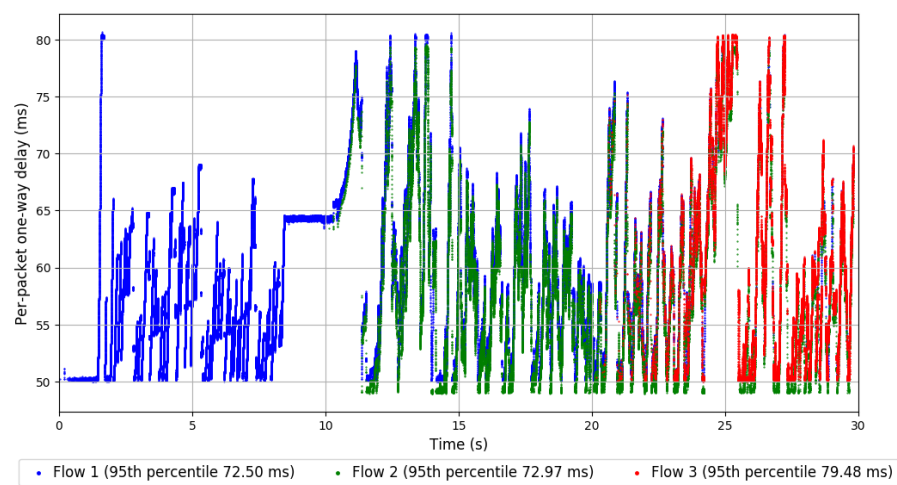
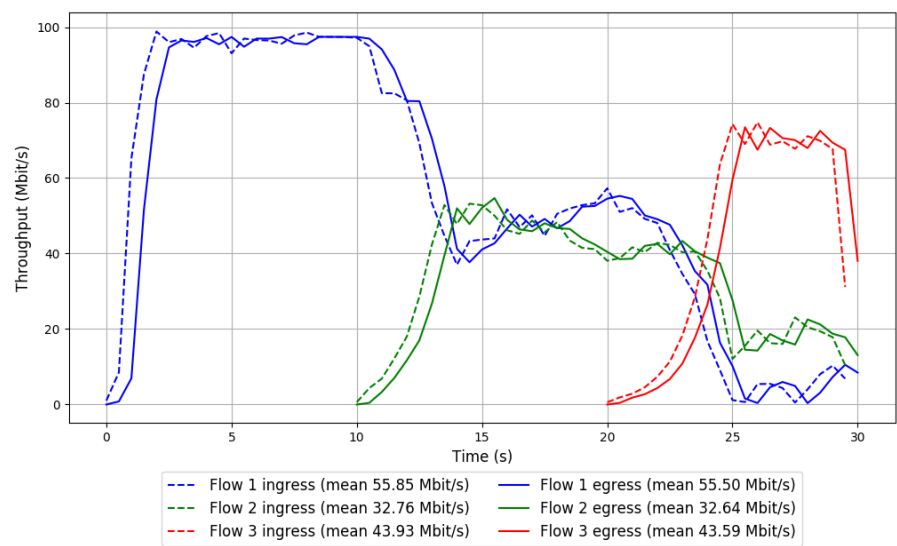


Run 5: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-11-24 09:41:27  
End at: 2019-11-24 09:41:57  
Local clock offset: -0.782 ms  
Remote clock offset: -9.554 ms

# Below is generated by plot.py at 2019-11-24 09:55:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.25 Mbit/s  
95th percentile per-packet one-way delay: 74.228 ms  
Loss rate: 0.50%  
-- Flow 1:  
Average throughput: 55.50 Mbit/s  
95th percentile per-packet one-way delay: 72.505 ms  
Loss rate: 0.55%  
-- Flow 2:  
Average throughput: 32.64 Mbit/s  
95th percentile per-packet one-way delay: 72.971 ms  
Loss rate: 0.32%  
-- Flow 3:  
Average throughput: 43.59 Mbit/s  
95th percentile per-packet one-way delay: 79.485 ms  
Loss rate: 0.56%

Run 5: Report of Muses\_DecisionTreeR0 — Data Link

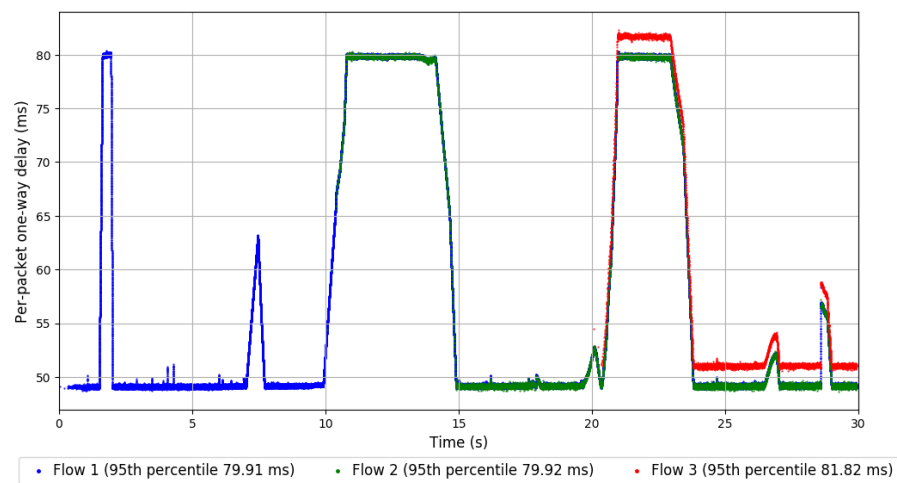
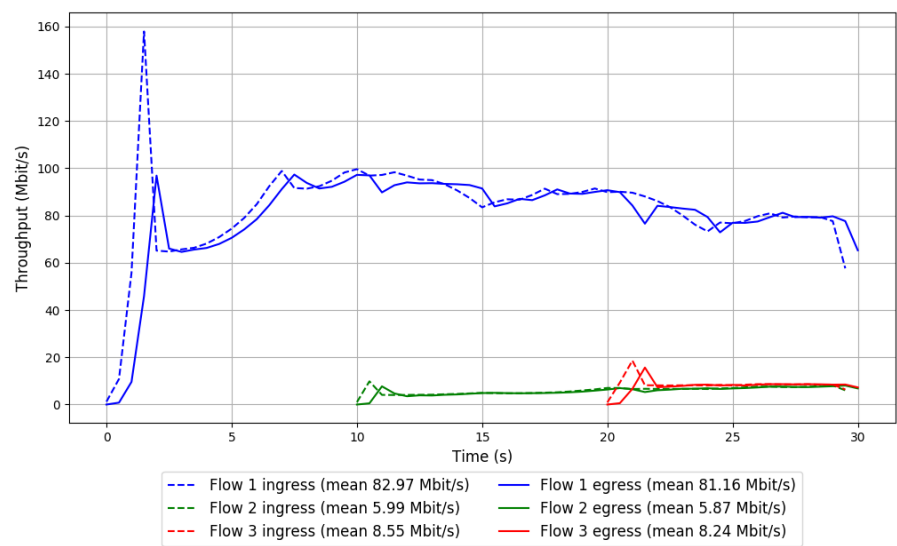


Run 1: Statistics of PCC-Allegro

Start at: 2019-11-24 07:25:16  
End at: 2019-11-24 07:25:46  
Local clock offset: -0.874 ms  
Remote clock offset: -7.234 ms

# Below is generated by plot.py at 2019-11-24 09:56:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.77 Mbit/s  
95th percentile per-packet one-way delay: 79.919 ms  
Loss rate: 2.23%  
-- Flow 1:  
Average throughput: 81.16 Mbit/s  
95th percentile per-packet one-way delay: 79.908 ms  
Loss rate: 2.19%  
-- Flow 2:  
Average throughput: 5.87 Mbit/s  
95th percentile per-packet one-way delay: 79.920 ms  
Loss rate: 2.04%  
-- Flow 3:  
Average throughput: 8.24 Mbit/s  
95th percentile per-packet one-way delay: 81.818 ms  
Loss rate: 3.69%

Run 1: Report of PCC-Allegro — Data Link

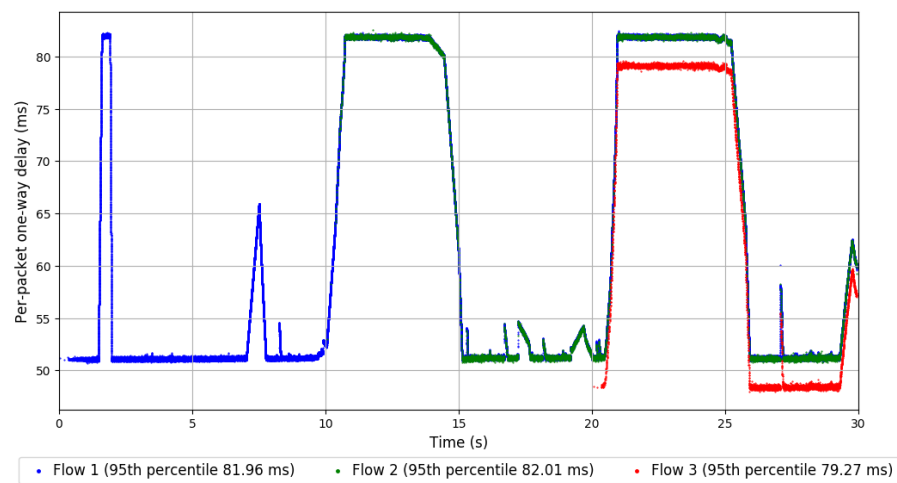
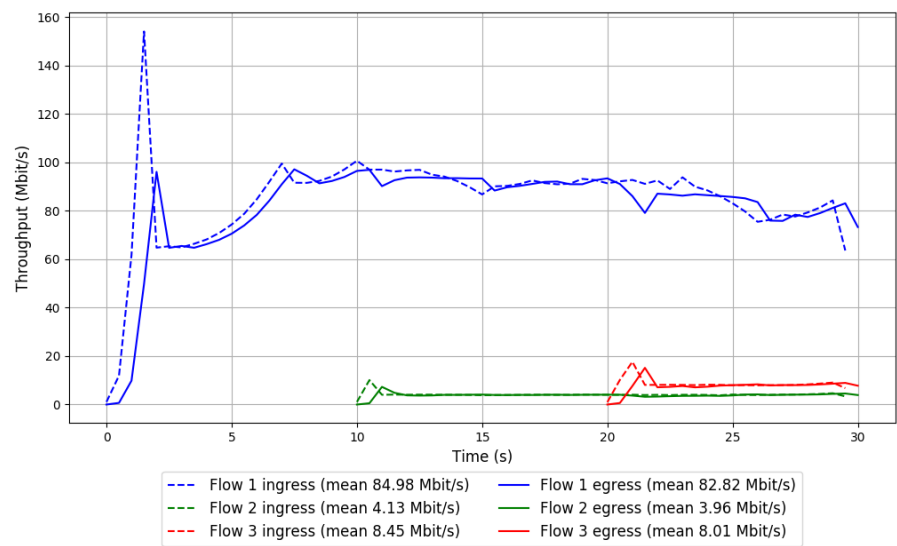


Run 2: Statistics of PCC-Allegro

Start at: 2019-11-24 07:55:10  
End at: 2019-11-24 07:55:40  
Local clock offset: 0.728 ms  
Remote clock offset: -6.601 ms

# Below is generated by plot.py at 2019-11-24 09:56:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.10 Mbit/s  
95th percentile per-packet one-way delay: 81.963 ms  
Loss rate: 2.64%  
-- Flow 1:  
Average throughput: 82.82 Mbit/s  
95th percentile per-packet one-way delay: 81.964 ms  
Loss rate: 2.52%  
-- Flow 2:  
Average throughput: 3.96 Mbit/s  
95th percentile per-packet one-way delay: 82.013 ms  
Loss rate: 4.07%  
-- Flow 3:  
Average throughput: 8.01 Mbit/s  
95th percentile per-packet one-way delay: 79.273 ms  
Loss rate: 5.11%

Run 2: Report of PCC-Allegro — Data Link



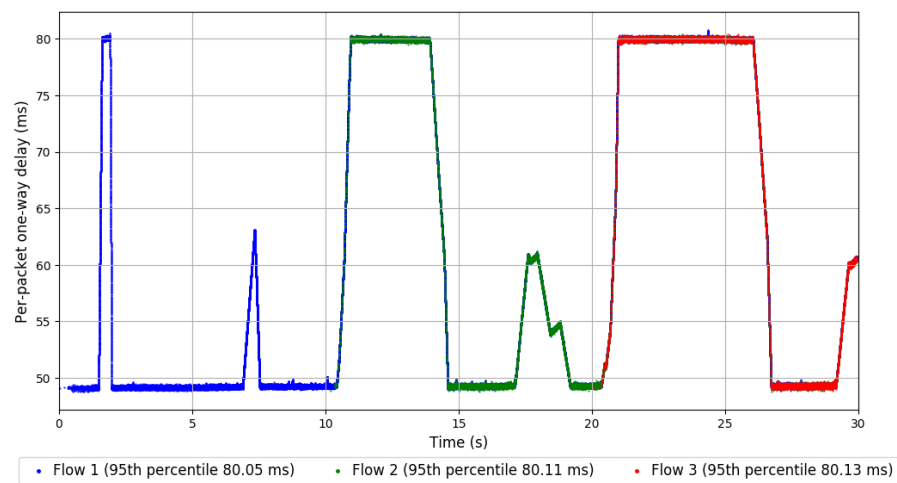
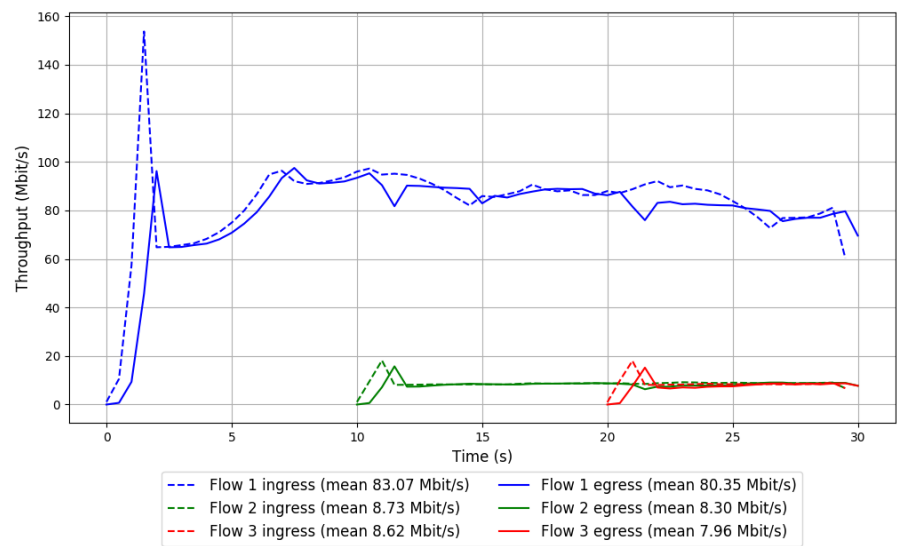


Run 3: Statistics of PCC-Allegro

Start at: 2019-11-24 08:25:09  
End at: 2019-11-24 08:25:39  
Local clock offset: -0.324 ms  
Remote clock offset: -7.276 ms

# Below is generated by plot.py at 2019-11-24 09:56:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.50 Mbit/s  
95th percentile per-packet one-way delay: 80.060 ms  
Loss rate: 3.47%  
-- Flow 1:  
Average throughput: 80.35 Mbit/s  
95th percentile per-packet one-way delay: 80.052 ms  
Loss rate: 3.24%  
-- Flow 2:  
Average throughput: 8.30 Mbit/s  
95th percentile per-packet one-way delay: 80.107 ms  
Loss rate: 4.86%  
-- Flow 3:  
Average throughput: 7.96 Mbit/s  
95th percentile per-packet one-way delay: 80.132 ms  
Loss rate: 7.49%

Run 3: Report of PCC-Allegro — Data Link

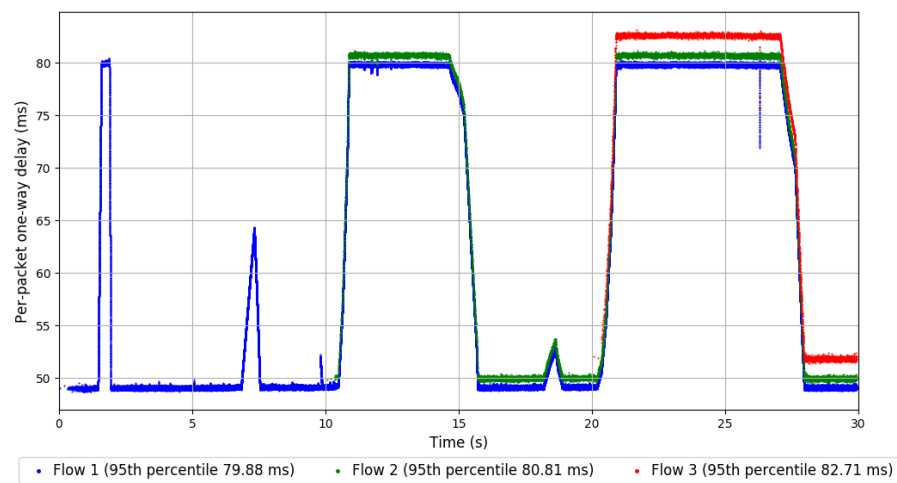
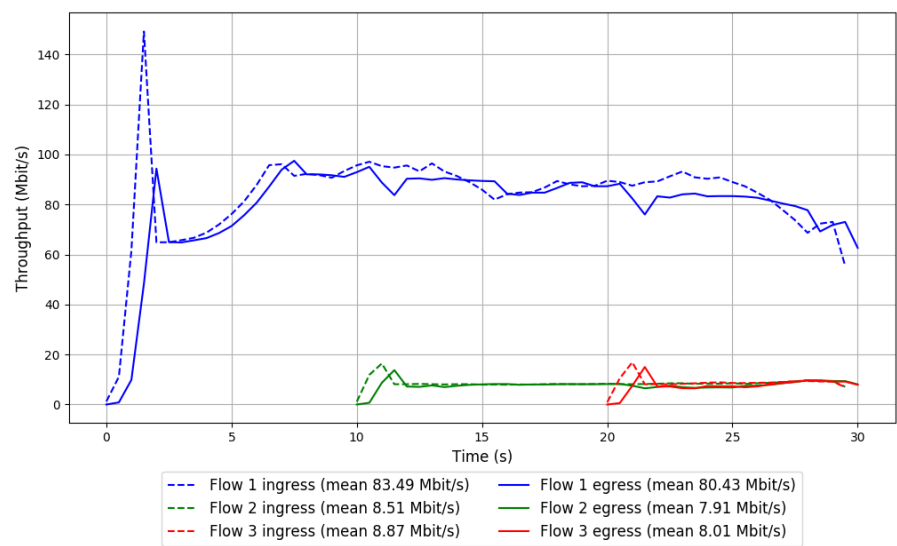


Run 4: Statistics of PCC-Allegro

Start at: 2019-11-24 08:55:08  
End at: 2019-11-24 08:55:38  
Local clock offset: -1.634 ms  
Remote clock offset: -8.534 ms

# Below is generated by plot.py at 2019-11-24 09:56:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.33 Mbit/s  
95th percentile per-packet one-way delay: 80.023 ms  
Loss rate: 4.07%  
-- Flow 1:  
Average throughput: 80.43 Mbit/s  
95th percentile per-packet one-way delay: 79.884 ms  
Loss rate: 3.67%  
-- Flow 2:  
Average throughput: 7.91 Mbit/s  
95th percentile per-packet one-way delay: 80.815 ms  
Loss rate: 7.05%  
-- Flow 3:  
Average throughput: 8.01 Mbit/s  
95th percentile per-packet one-way delay: 82.714 ms  
Loss rate: 9.69%

Run 4: Report of PCC-Allegro — Data Link

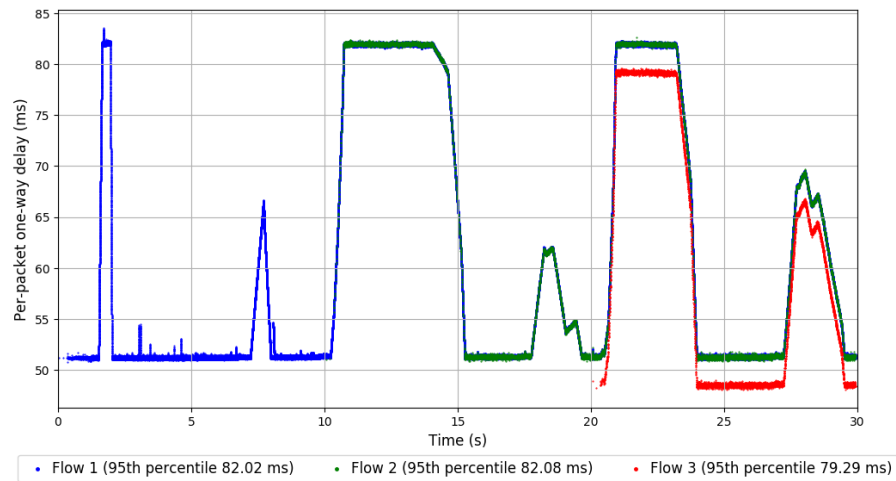
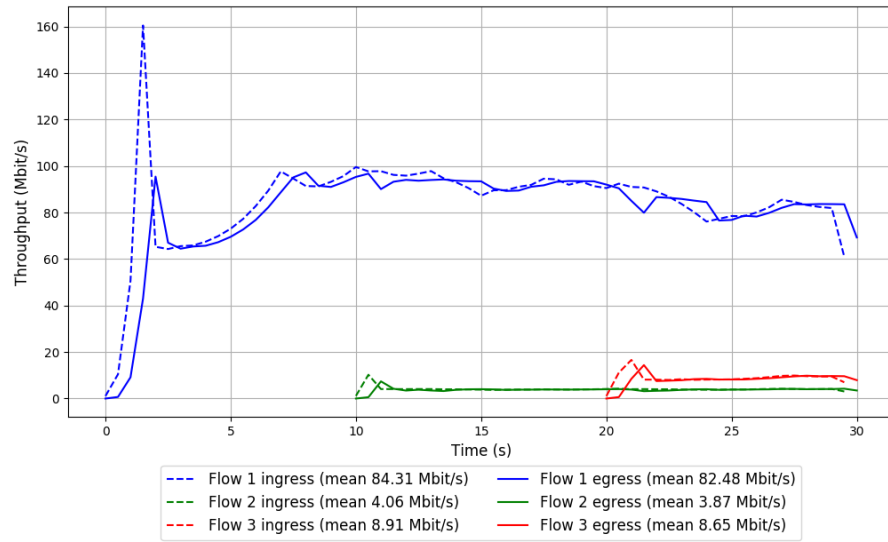


Run 5: Statistics of PCC-Allegro

Start at: 2019-11-24 09:25:15  
End at: 2019-11-24 09:25:45  
Local clock offset: -0.976 ms  
Remote clock offset: -8.315 ms

# Below is generated by plot.py at 2019-11-24 09:56:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.90 Mbit/s  
95th percentile per-packet one-way delay: 82.022 ms  
Loss rate: 2.27%  
-- Flow 1:  
Average throughput: 82.48 Mbit/s  
95th percentile per-packet one-way delay: 82.023 ms  
Loss rate: 2.17%  
-- Flow 2:  
Average throughput: 3.87 Mbit/s  
95th percentile per-packet one-way delay: 82.081 ms  
Loss rate: 4.83%  
-- Flow 3:  
Average throughput: 8.65 Mbit/s  
95th percentile per-packet one-way delay: 79.290 ms  
Loss rate: 3.00%

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

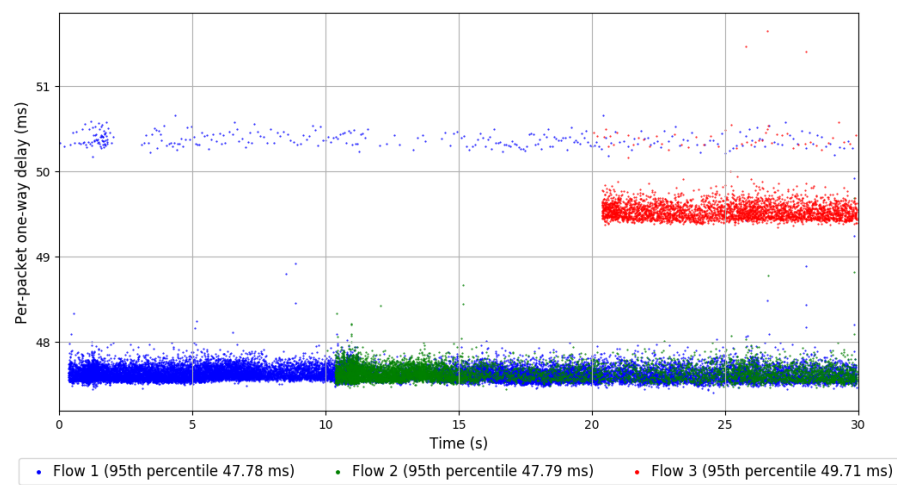
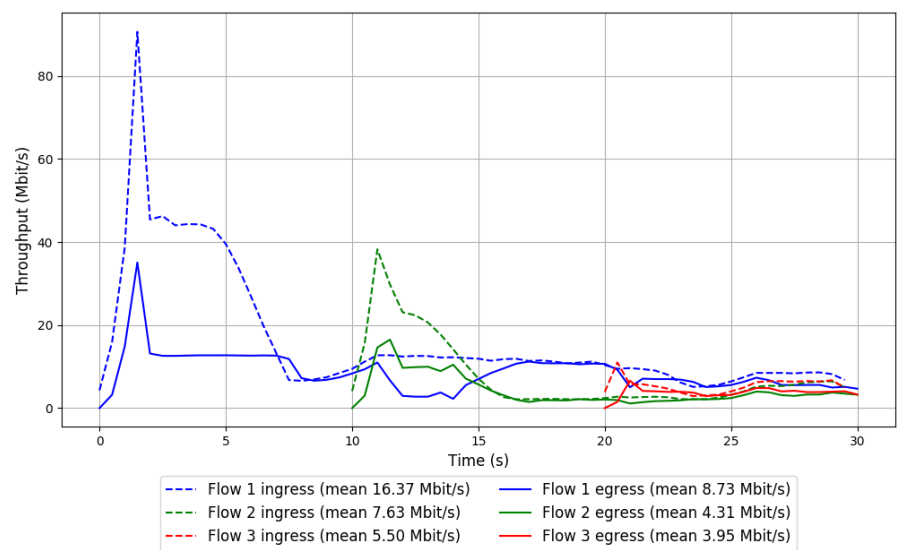


```
Run 1: Statistics of PCC-Expr

Start at: 2019-11-24 07:24:03
End at: 2019-11-24 07:24:33
Local clock offset: -0.156 ms
Remote clock offset: -7.999 ms

# Below is generated by plot.py at 2019-11-24 09:56:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.90 Mbit/s
95th percentile per-packet one-way delay: 49.544 ms
Loss rate: 44.55%
-- Flow 1:
Average throughput: 8.73 Mbit/s
95th percentile per-packet one-way delay: 47.777 ms
Loss rate: 46.70%
-- Flow 2:
Average throughput: 4.31 Mbit/s
95th percentile per-packet one-way delay: 47.788 ms
Loss rate: 43.49%
-- Flow 3:
Average throughput: 3.95 Mbit/s
95th percentile per-packet one-way delay: 49.713 ms
Loss rate: 28.13%
```

Run 1: Report of PCC-Expr — Data Link



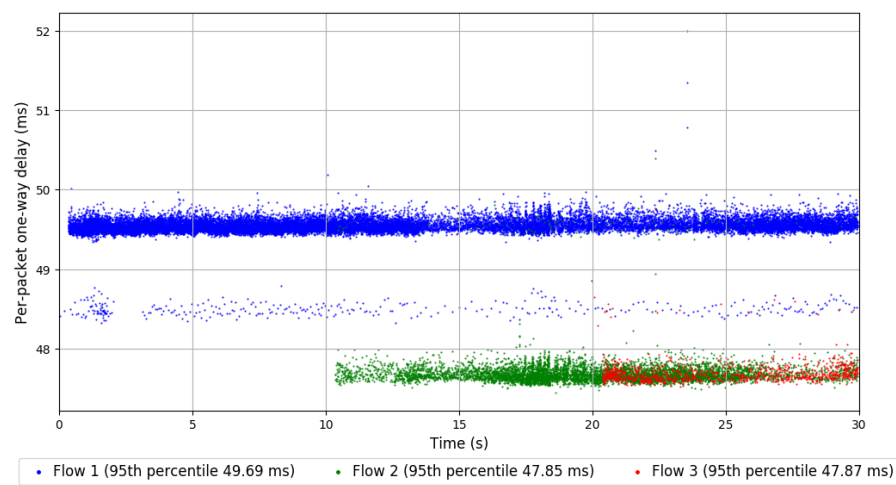
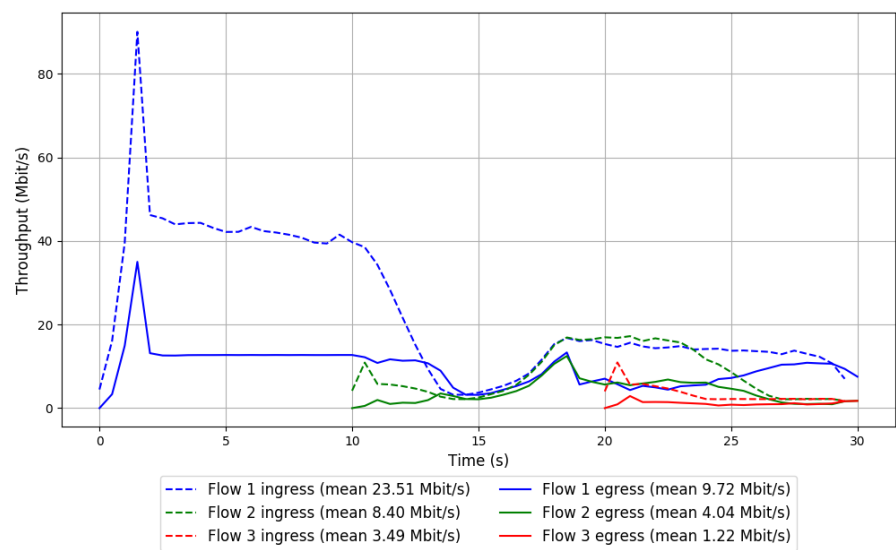


Run 2: Statistics of PCC-Expr

Start at: 2019-11-24 07:53:57  
End at: 2019-11-24 07:54:27  
Local clock offset: 0.755 ms  
Remote clock offset: -7.155 ms

# Below is generated by plot.py at 2019-11-24 09:56:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 12.81 Mbit/s  
95th percentile per-packet one-way delay: 49.671 ms  
Loss rate: 57.67%  
-- Flow 1:  
Average throughput: 9.72 Mbit/s  
95th percentile per-packet one-way delay: 49.686 ms  
Loss rate: 58.68%  
-- Flow 2:  
Average throughput: 4.04 Mbit/s  
95th percentile per-packet one-way delay: 47.851 ms  
Loss rate: 51.91%  
-- Flow 3:  
Average throughput: 1.22 Mbit/s  
95th percentile per-packet one-way delay: 47.868 ms  
Loss rate: 64.97%

Run 2: Report of PCC-Expr — Data Link

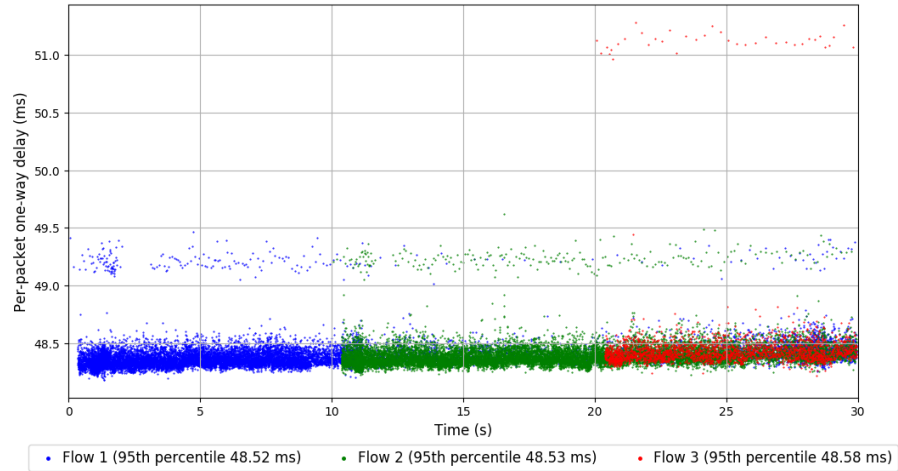
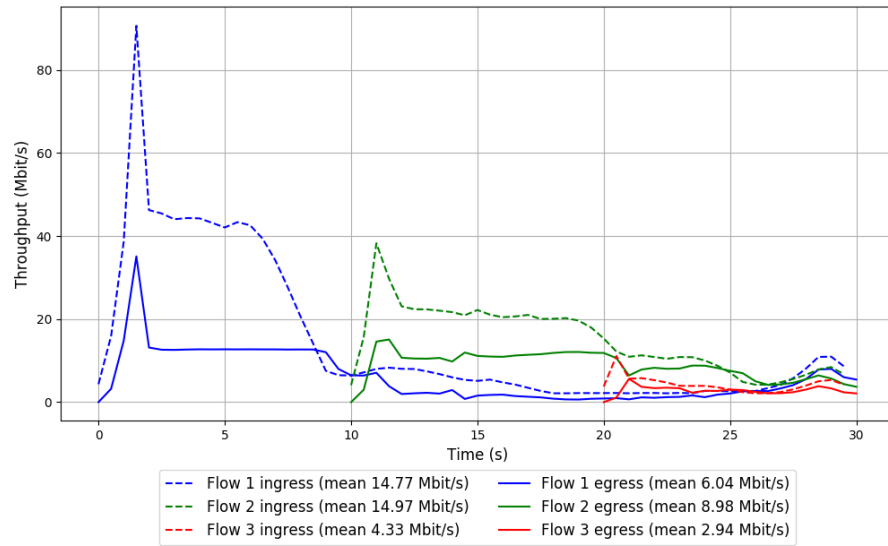


```
Run 3: Statistics of PCC-Expr

Start at: 2019-11-24 08:23:56
End at: 2019-11-24 08:24:26
Local clock offset: -1.037 ms
Remote clock offset: -7.73 ms

# Below is generated by plot.py at 2019-11-24 09:56:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.99 Mbit/s
95th percentile per-packet one-way delay: 48.533 ms
Loss rate: 50.36%
-- Flow 1:
Average throughput: 6.04 Mbit/s
95th percentile per-packet one-way delay: 48.524 ms
Loss rate: 59.11%
-- Flow 2:
Average throughput: 8.98 Mbit/s
95th percentile per-packet one-way delay: 48.530 ms
Loss rate: 40.02%
-- Flow 3:
Average throughput: 2.94 Mbit/s
95th percentile per-packet one-way delay: 48.576 ms
Loss rate: 31.99%
```

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

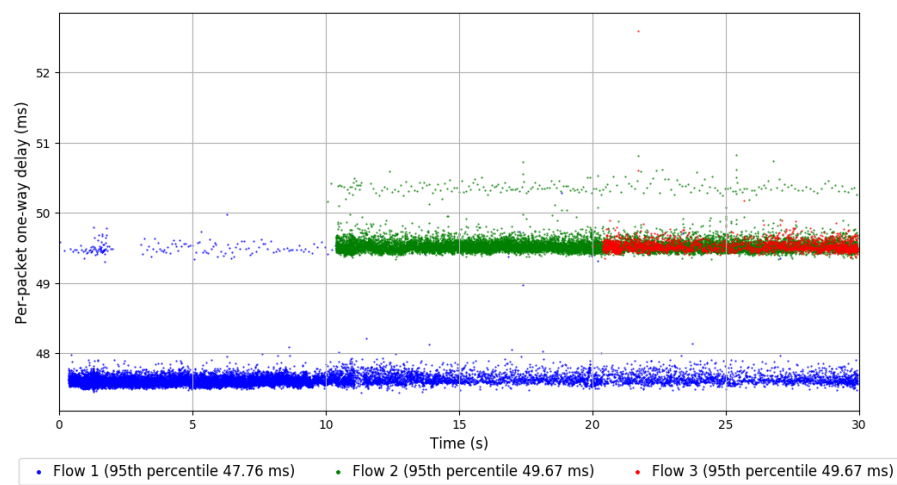
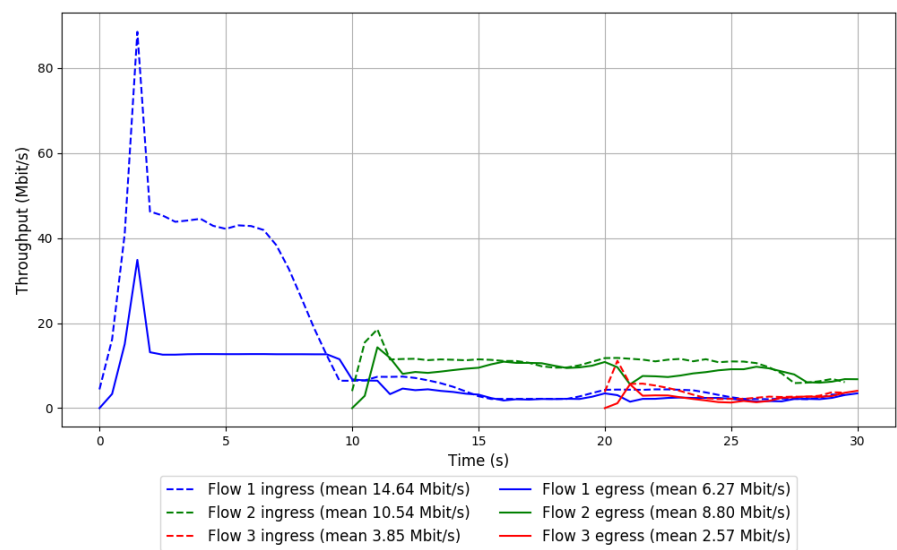


Run 4: Statistics of PCC-Expr

Start at: 2019-11-24 08:53:55  
End at: 2019-11-24 08:54:25  
Local clock offset: -0.916 ms  
Remote clock offset: -9.257 ms

# Below is generated by plot.py at 2019-11-24 09:56:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 12.97 Mbit/s  
95th percentile per-packet one-way delay: 49.624 ms  
Loss rate: 43.43%  
-- Flow 1:  
Average throughput: 6.27 Mbit/s  
95th percentile per-packet one-way delay: 47.756 ms  
Loss rate: 57.19%  
-- Flow 2:  
Average throughput: 8.80 Mbit/s  
95th percentile per-packet one-way delay: 49.673 ms  
Loss rate: 16.53%  
-- Flow 3:  
Average throughput: 2.57 Mbit/s  
95th percentile per-packet one-way delay: 49.670 ms  
Loss rate: 33.33%

Run 4: Report of PCC-Expr — Data Link

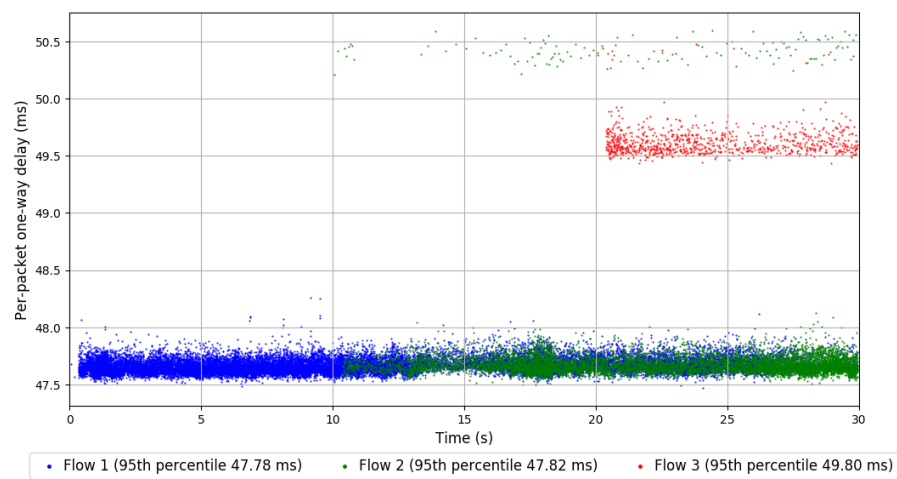
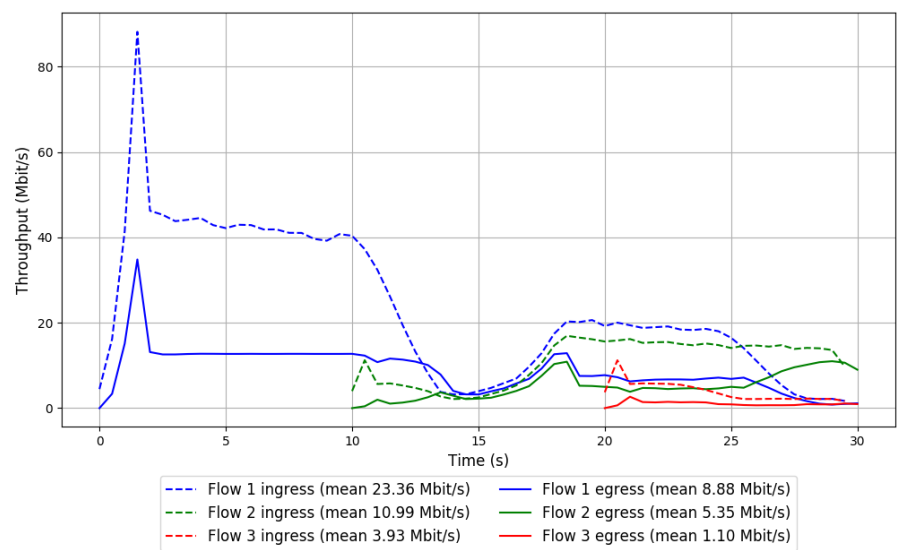


Run 5: Statistics of PCC-Expr

Start at: 2019-11-24 09:24:02  
End at: 2019-11-24 09:24:32  
Local clock offset: -0.188 ms  
Remote clock offset: -8.229 ms

# Below is generated by plot.py at 2019-11-24 09:56:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 12.80 Mbit/s  
95th percentile per-packet one-way delay: 47.834 ms  
Loss rate: 59.94%  
-- Flow 1:  
Average throughput: 8.88 Mbit/s  
95th percentile per-packet one-way delay: 47.780 ms  
Loss rate: 61.98%  
-- Flow 2:  
Average throughput: 5.35 Mbit/s  
95th percentile per-packet one-way delay: 47.819 ms  
Loss rate: 51.31%  
-- Flow 3:  
Average throughput: 1.10 Mbit/s  
95th percentile per-packet one-way delay: 49.797 ms  
Loss rate: 71.98%

Run 5: Report of PCC-Expr — Data Link



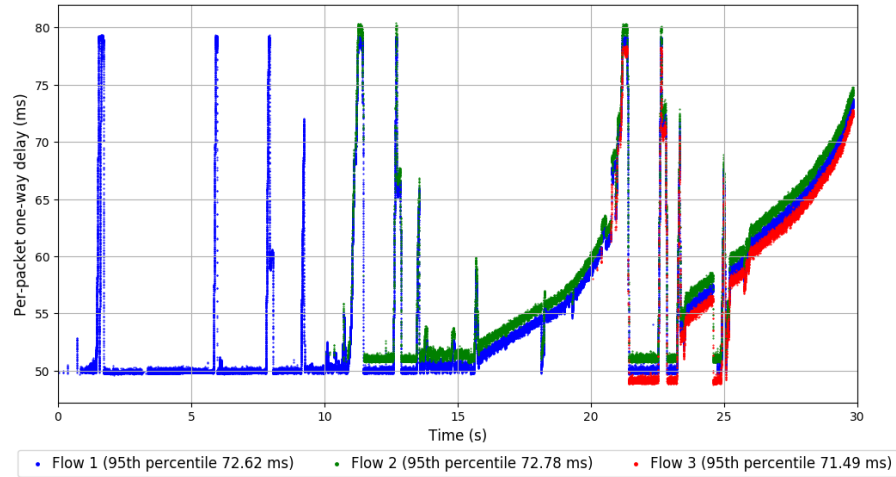
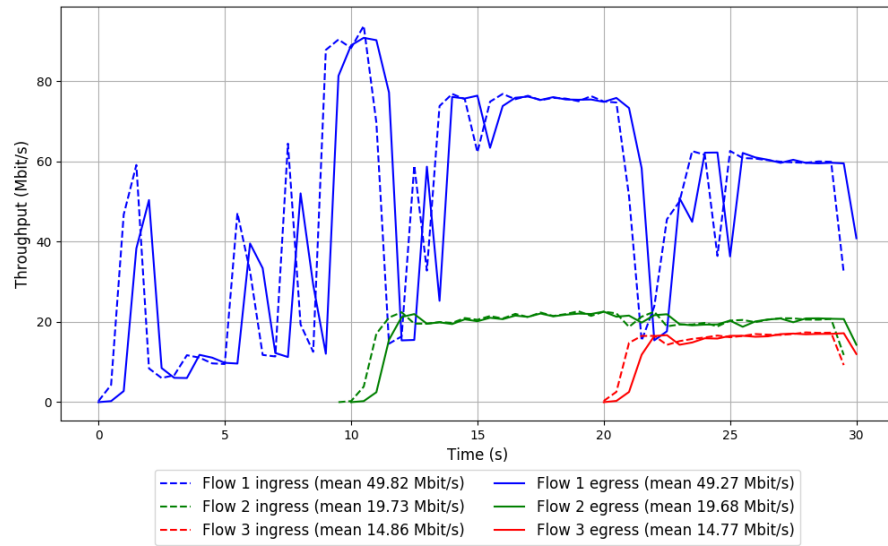


Run 1: Statistics of QUIC Cubic

Start at: 2019-11-24 07:16:34  
End at: 2019-11-24 07:17:04  
Local clock offset: -1.176 ms  
Remote clock offset: -8.252 ms

# Below is generated by plot.py at 2019-11-24 09:57:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 67.18 Mbit/s  
95th percentile per-packet one-way delay: 72.535 ms  
Loss rate: 0.82%  
-- Flow 1:  
Average throughput: 49.27 Mbit/s  
95th percentile per-packet one-way delay: 72.617 ms  
Loss rate: 1.03%  
-- Flow 2:  
Average throughput: 19.68 Mbit/s  
95th percentile per-packet one-way delay: 72.784 ms  
Loss rate: 0.18%  
-- Flow 3:  
Average throughput: 14.77 Mbit/s  
95th percentile per-packet one-way delay: 71.491 ms  
Loss rate: 0.47%

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



Run 2: Statistics of QUIC Cubic

Start at: 2019-11-24 07:46:28

End at: 2019-11-24 07:46:58

Local clock offset: 0.511 ms

Remote clock offset: -6.78 ms

# Below is generated by plot.py at 2019-11-24 09:57:08

# Datalink statistics

-- Total of 3 flows:

Average throughput: 68.58 Mbit/s

95th percentile per-packet one-way delay: 77.451 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 44.70 Mbit/s

95th percentile per-packet one-way delay: 76.929 ms

Loss rate: 1.14%

-- Flow 2:

Average throughput: 33.62 Mbit/s

95th percentile per-packet one-way delay: 78.675 ms

Loss rate: 0.28%

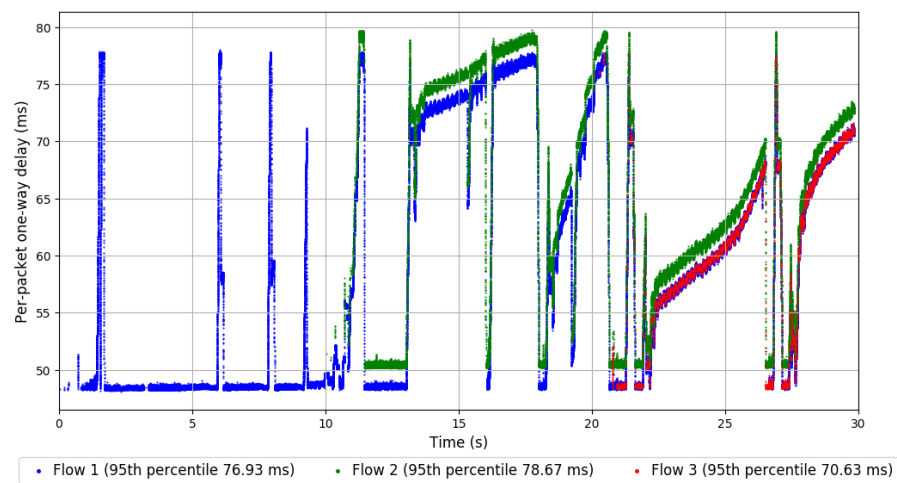
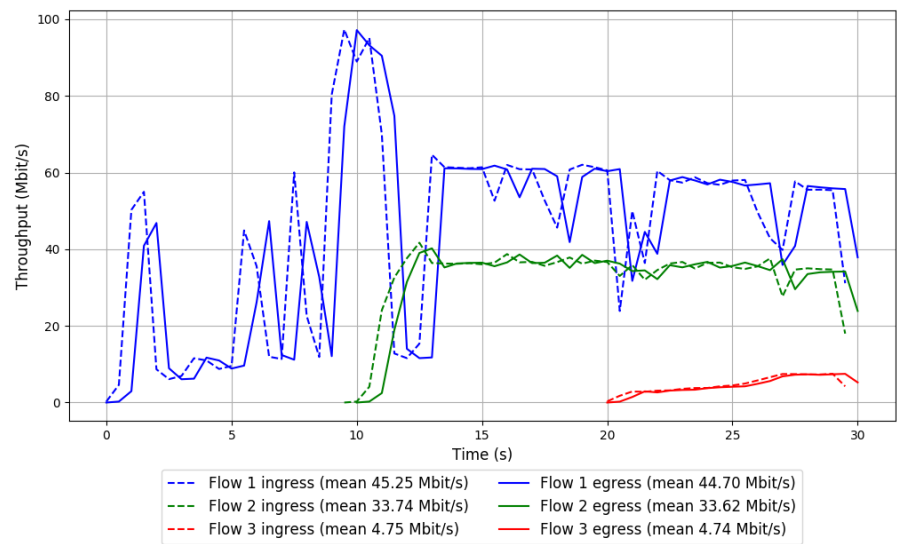
-- Flow 3:

Average throughput: 4.74 Mbit/s

95th percentile per-packet one-way delay: 70.628 ms

Loss rate: 0.10%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-11-24 08:16:27

End at: 2019-11-24 08:16:57

Local clock offset: 0.187 ms

Remote clock offset: -7.09 ms

# Below is generated by plot.py at 2019-11-24 09:57:11

# Datalink statistics

-- Total of 3 flows:

Average throughput: 68.02 Mbit/s

95th percentile per-packet one-way delay: 78.765 ms

Loss rate: 0.95%

-- Flow 1:

Average throughput: 43.54 Mbit/s

95th percentile per-packet one-way delay: 78.811 ms

Loss rate: 1.28%

-- Flow 2:

Average throughput: 31.73 Mbit/s

95th percentile per-packet one-way delay: 78.739 ms

Loss rate: 0.39%

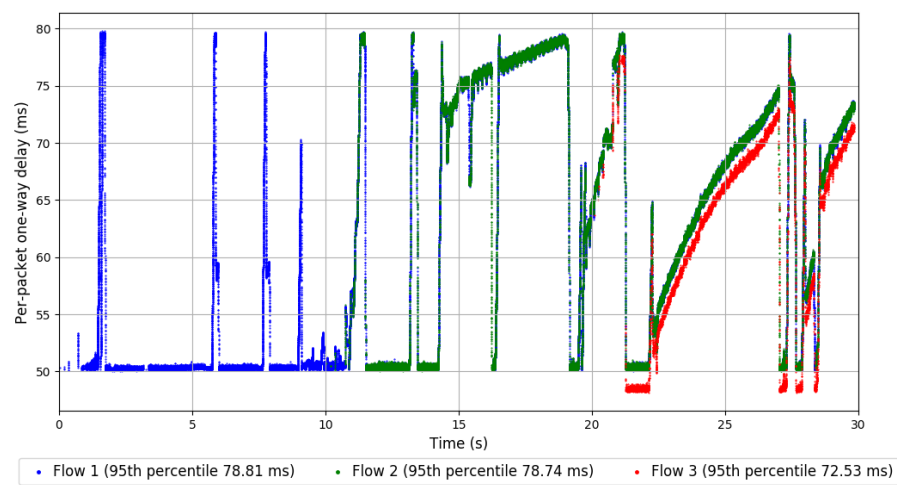
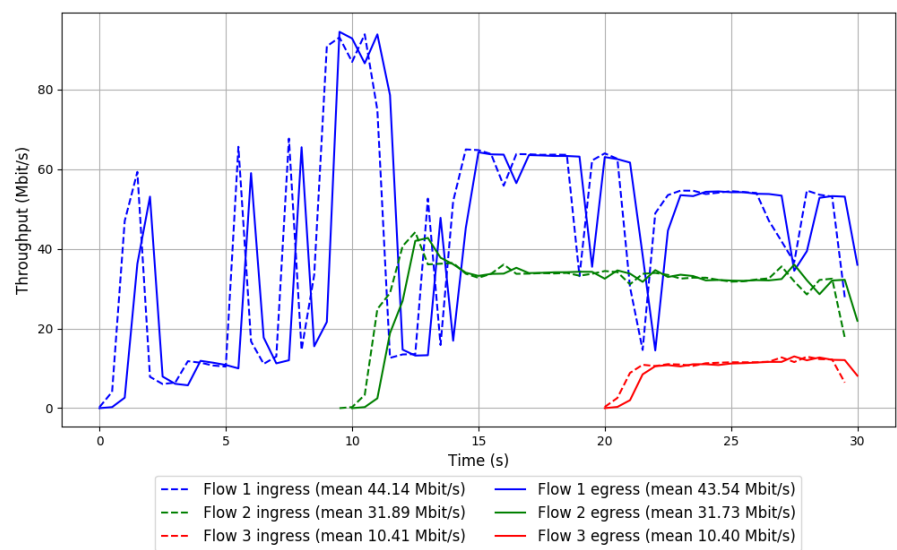
-- Flow 3:

Average throughput: 10.40 Mbit/s

95th percentile per-packet one-way delay: 72.525 ms

Loss rate: 0.09%

Run 3: Report of QUIC Cubic — Data Link

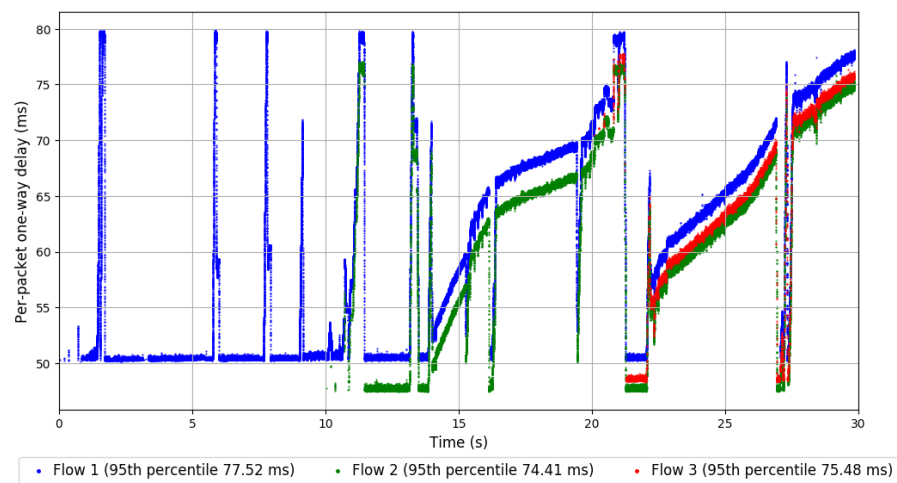
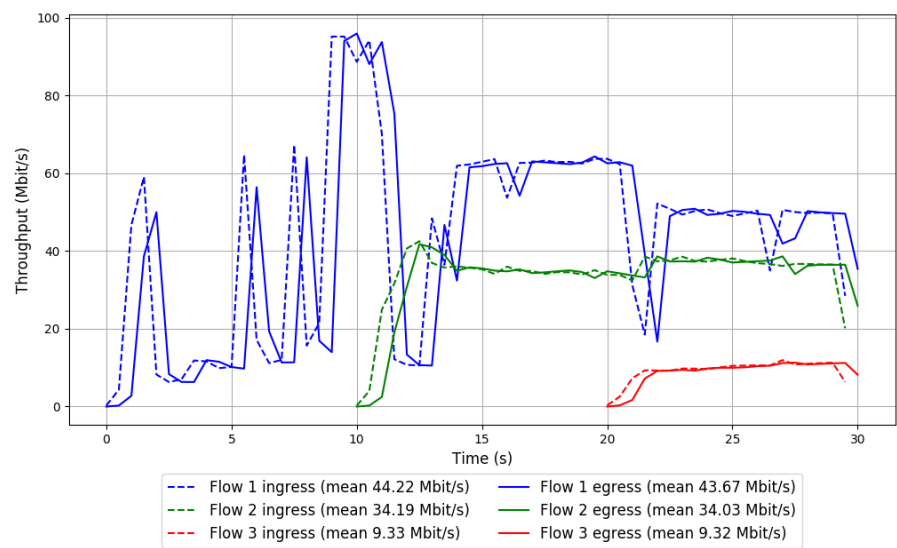


Run 4: Statistics of QUIC Cubic

Start at: 2019-11-24 08:46:26  
End at: 2019-11-24 08:46:56  
Local clock offset: -0.747 ms  
Remote clock offset: -9.066 ms

# Below is generated by plot.py at 2019-11-24 09:57:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 69.33 Mbit/s  
95th percentile per-packet one-way delay: 76.582 ms  
Loss rate: 0.84%  
-- Flow 1:  
Average throughput: 43.67 Mbit/s  
95th percentile per-packet one-way delay: 77.517 ms  
Loss rate: 1.16%  
-- Flow 2:  
Average throughput: 34.03 Mbit/s  
95th percentile per-packet one-way delay: 74.406 ms  
Loss rate: 0.32%  
-- Flow 3:  
Average throughput: 9.32 Mbit/s  
95th percentile per-packet one-way delay: 75.476 ms  
Loss rate: 0.04%

Run 4: Report of QUIC Cubic — Data Link



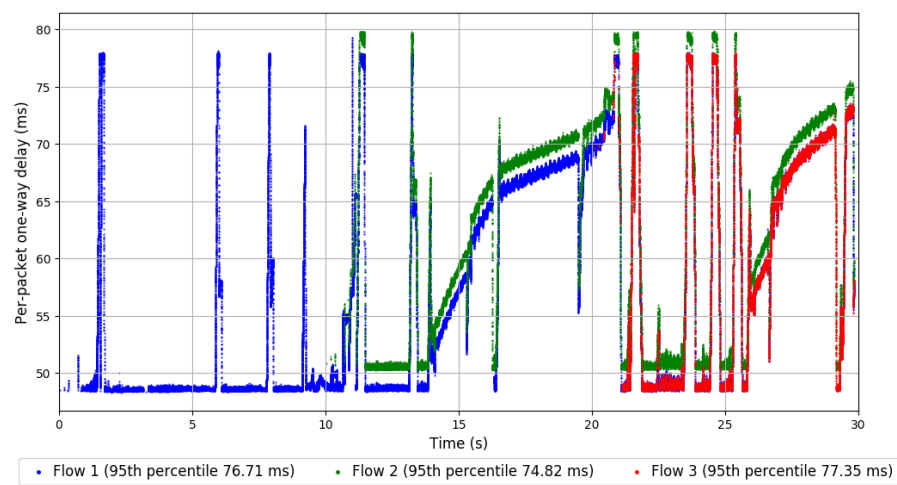
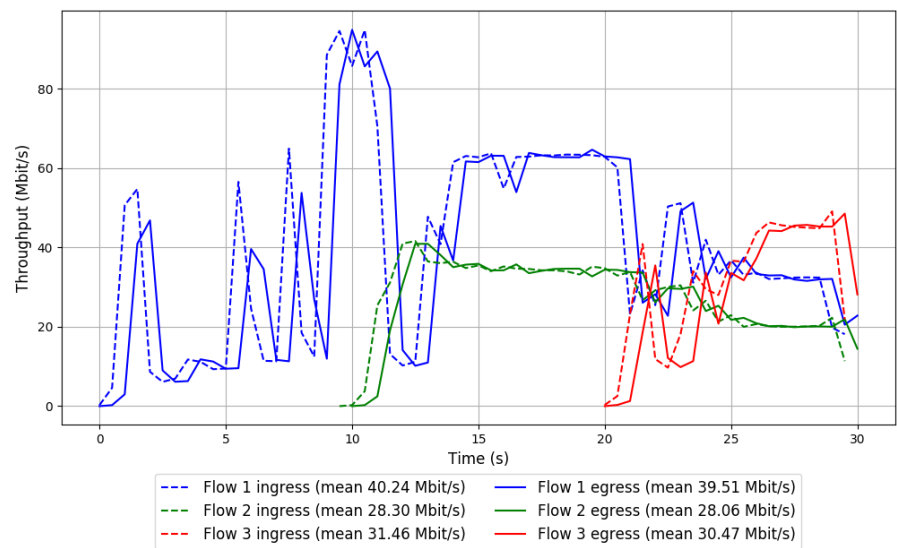


Run 5: Statistics of QUIC Cubic

Start at: 2019-11-24 09:16:32  
End at: 2019-11-24 09:17:02  
Local clock offset: -0.519 ms  
Remote clock offset: -8.358 ms

# Below is generated by plot.py at 2019-11-24 09:57:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 68.10 Mbit/s  
95th percentile per-packet one-way delay: 76.826 ms  
Loss rate: 1.74%  
-- Flow 1:  
Average throughput: 39.51 Mbit/s  
95th percentile per-packet one-way delay: 76.707 ms  
Loss rate: 1.79%  
-- Flow 2:  
Average throughput: 28.06 Mbit/s  
95th percentile per-packet one-way delay: 74.816 ms  
Loss rate: 0.82%  
-- Flow 3:  
Average throughput: 30.47 Mbit/s  
95th percentile per-packet one-way delay: 77.351 ms  
Loss rate: 3.27%

Run 5: Report of QUIC Cubic — Data Link

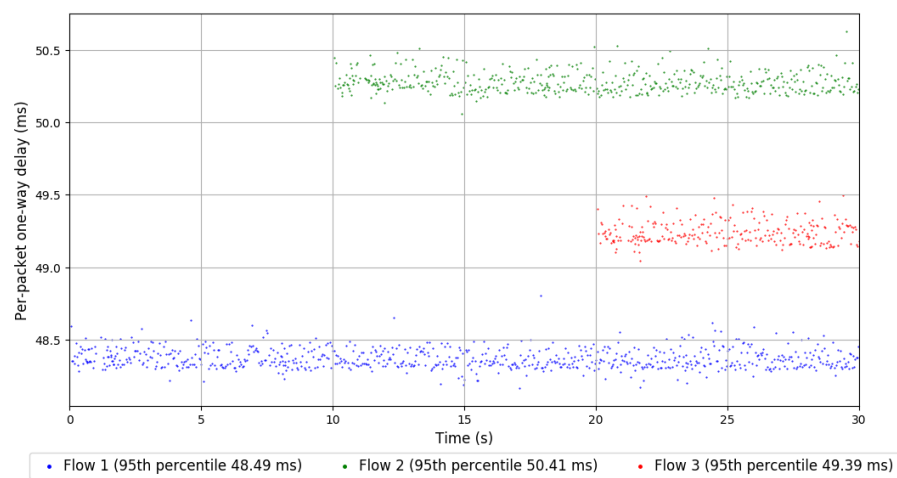
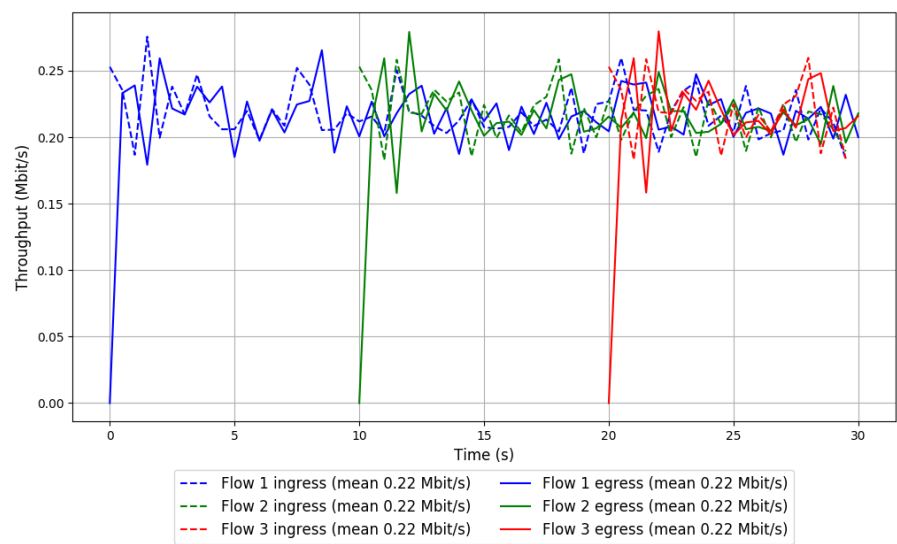


Run 1: Statistics of SReAM

Start at: 2019-11-24 07:32:43  
End at: 2019-11-24 07:33:13  
Local clock offset: -0.745 ms  
Remote clock offset: -7.364 ms

# Below is generated by plot.py at 2019-11-24 09:57:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 50.352 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 48.490 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.411 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 49.387 ms  
Loss rate: 0.00%

Run 1: Report of SReAM — Data Link

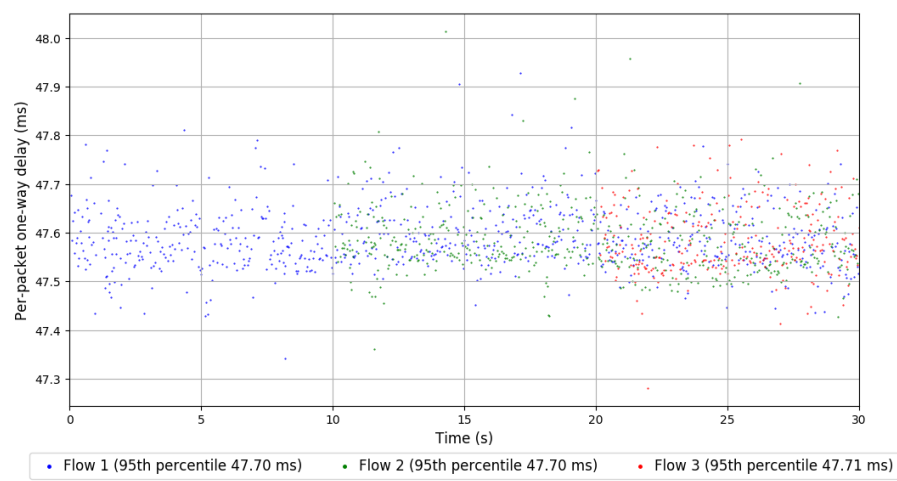
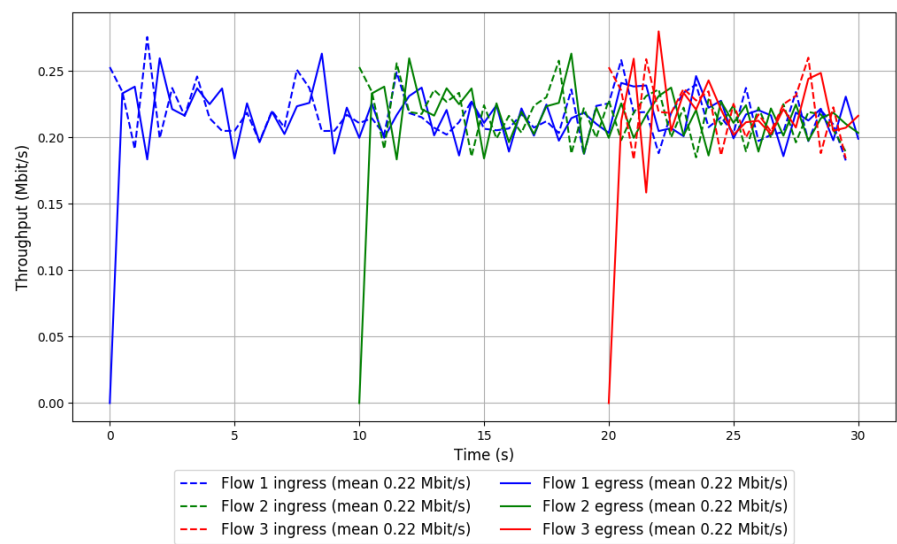


Run 2: Statistics of SReAM

Start at: 2019-11-24 08:02:38  
End at: 2019-11-24 08:03:08  
Local clock offset: 0.959 ms  
Remote clock offset: -7.308 ms

# Below is generated by plot.py at 2019-11-24 09:57:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 47.704 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 47.704 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 47.700 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 47.713 ms  
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

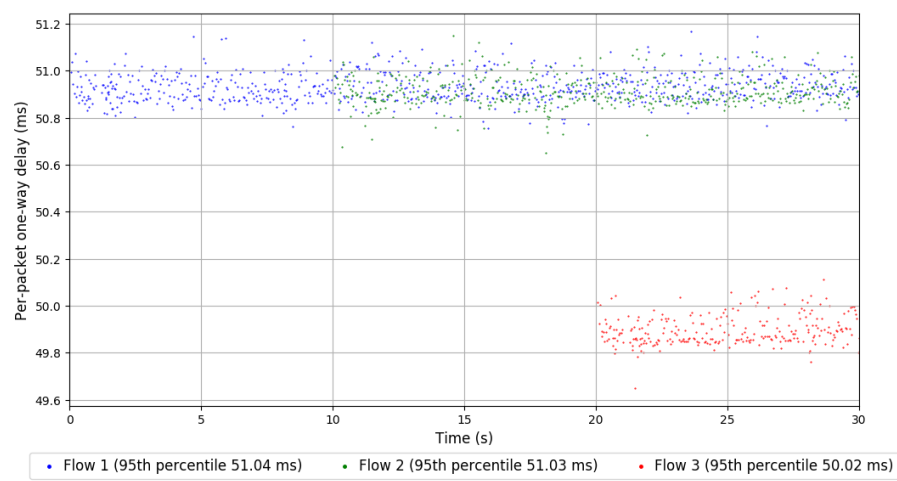
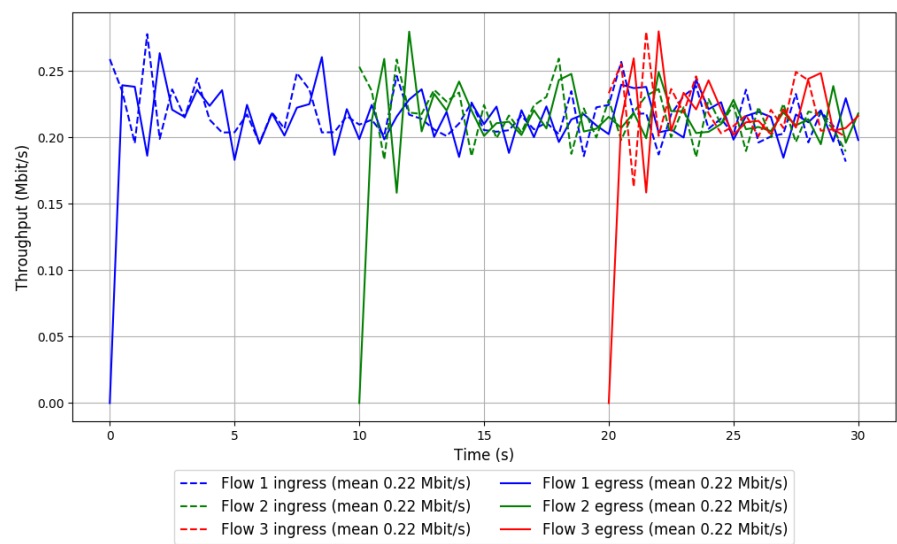


Run 3: Statistics of SReAM

Start at: 2019-11-24 08:32:37  
End at: 2019-11-24 08:33:07  
Local clock offset: -1.278 ms  
Remote clock offset: -8.002 ms

# Below is generated by plot.py at 2019-11-24 09:57:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 51.029 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 51.038 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 51.028 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.016 ms  
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



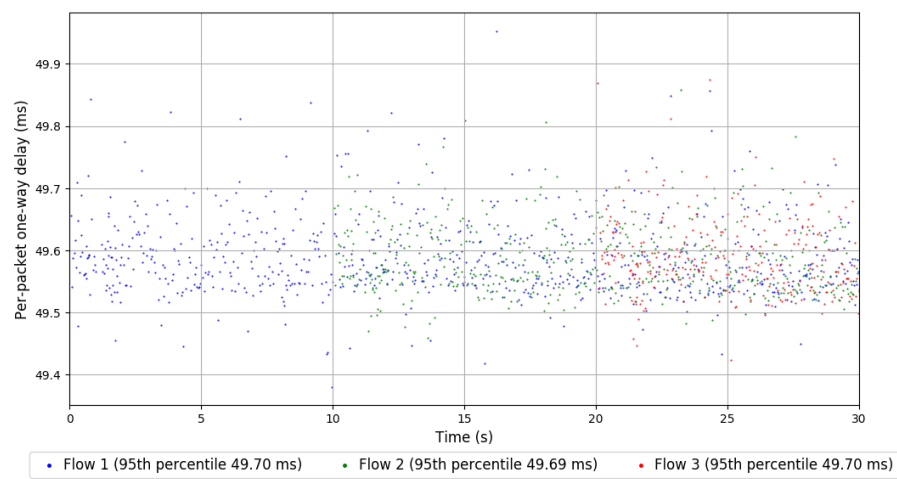
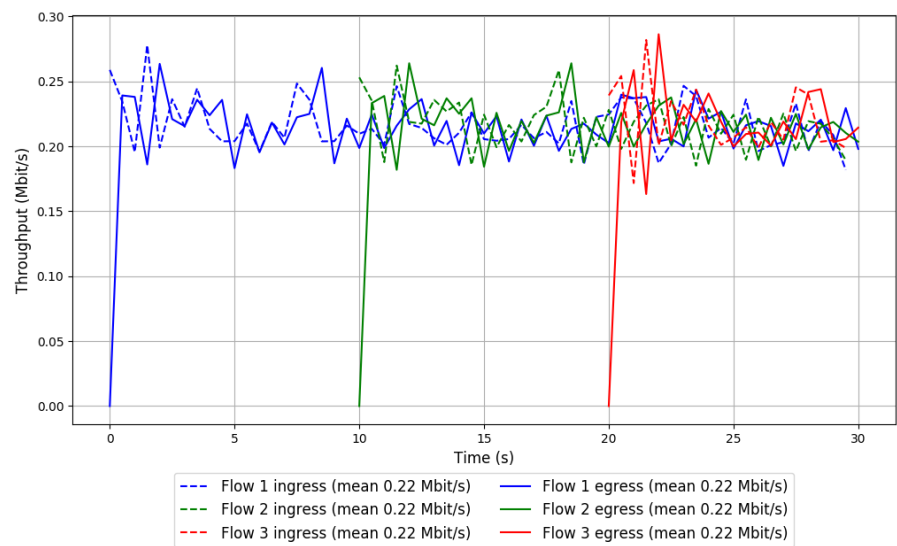


Run 4: Statistics of SReAM

Start at: 2019-11-24 09:02:35  
End at: 2019-11-24 09:03:05  
Local clock offset: -1.011 ms  
Remote clock offset: -8.664 ms

# Below is generated by plot.py at 2019-11-24 09:57:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 49.695 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 49.697 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 49.686 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 49.696 ms  
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

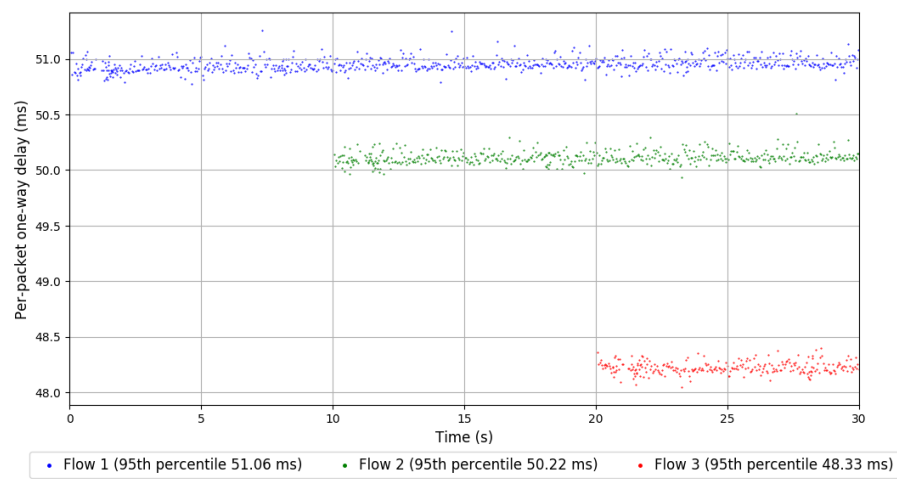
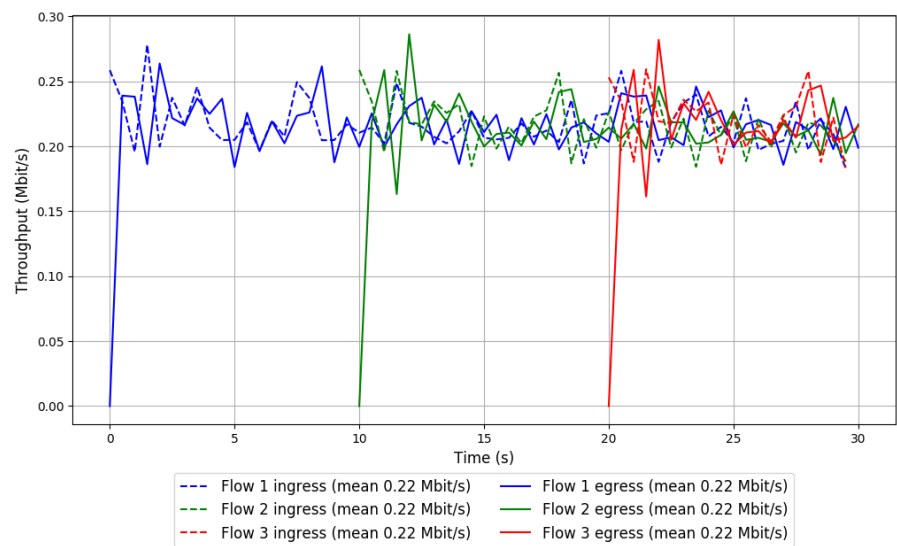


Run 5: Statistics of SReAM

Start at: 2019-11-24 09:32:43  
End at: 2019-11-24 09:33:13  
Local clock offset: -0.051 ms  
Remote clock offset: -8.248 ms

# Below is generated by plot.py at 2019-11-24 09:57:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 51.027 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 51.057 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.217 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 48.327 ms  
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

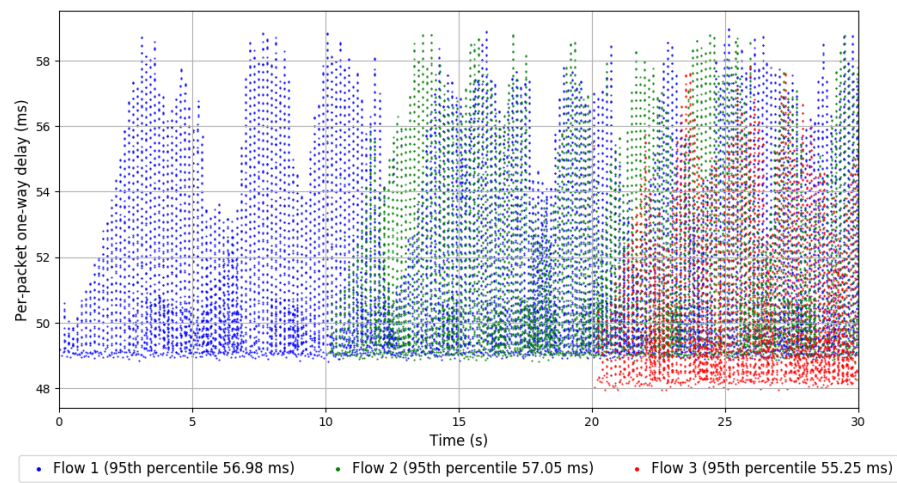
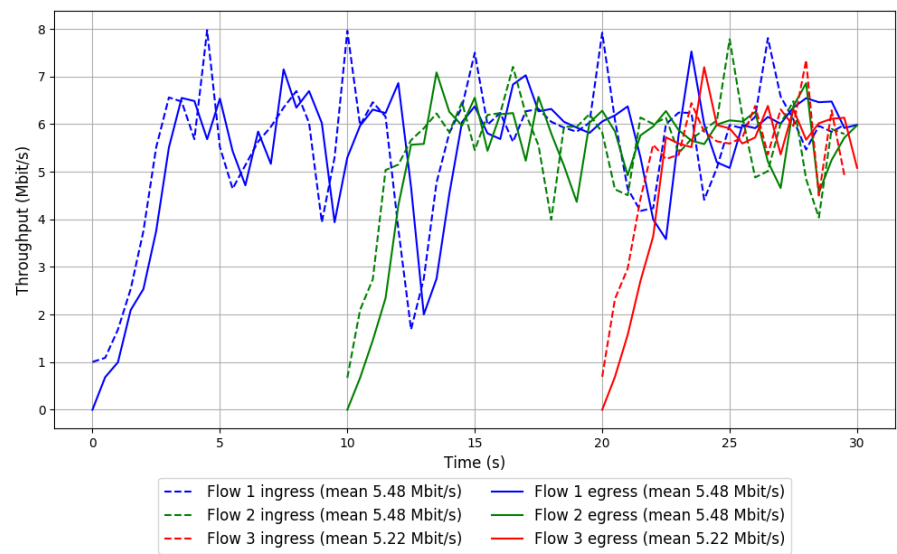


Run 1: Statistics of Sprout

Start at: 2019-11-24 07:29:00  
End at: 2019-11-24 07:29:30  
Local clock offset: -0.055 ms  
Remote clock offset: -6.957 ms

# Below is generated by plot.py at 2019-11-24 09:57:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 10.84 Mbit/s  
95th percentile per-packet one-way delay: 56.850 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 5.48 Mbit/s  
95th percentile per-packet one-way delay: 56.975 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 5.48 Mbit/s  
95th percentile per-packet one-way delay: 57.050 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 5.22 Mbit/s  
95th percentile per-packet one-way delay: 55.253 ms  
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

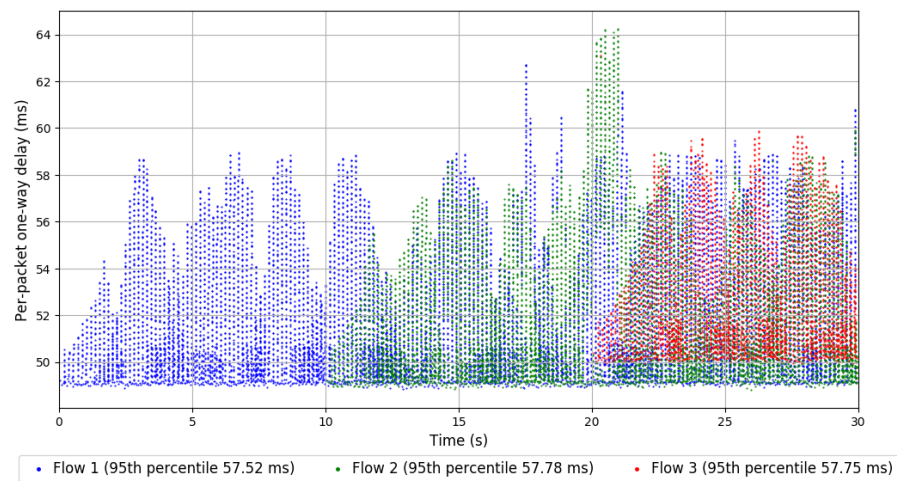
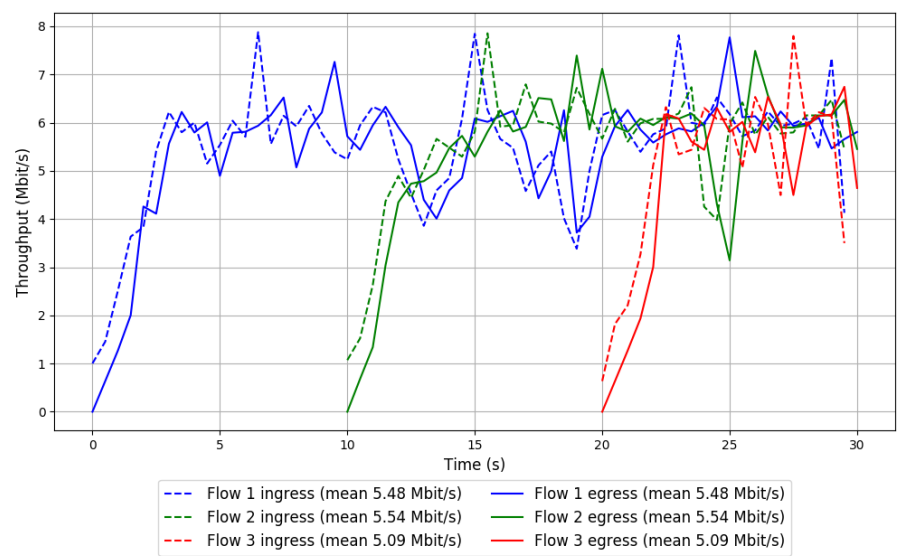


Run 2: Statistics of Sprout

Start at: 2019-11-24 07:58:55  
End at: 2019-11-24 07:59:25  
Local clock offset: 0.89 ms  
Remote clock offset: -6.543 ms

# Below is generated by plot.py at 2019-11-24 09:57:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 10.84 Mbit/s  
95th percentile per-packet one-way delay: 57.640 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 5.48 Mbit/s  
95th percentile per-packet one-way delay: 57.524 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 5.54 Mbit/s  
95th percentile per-packet one-way delay: 57.785 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 5.09 Mbit/s  
95th percentile per-packet one-way delay: 57.749 ms  
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



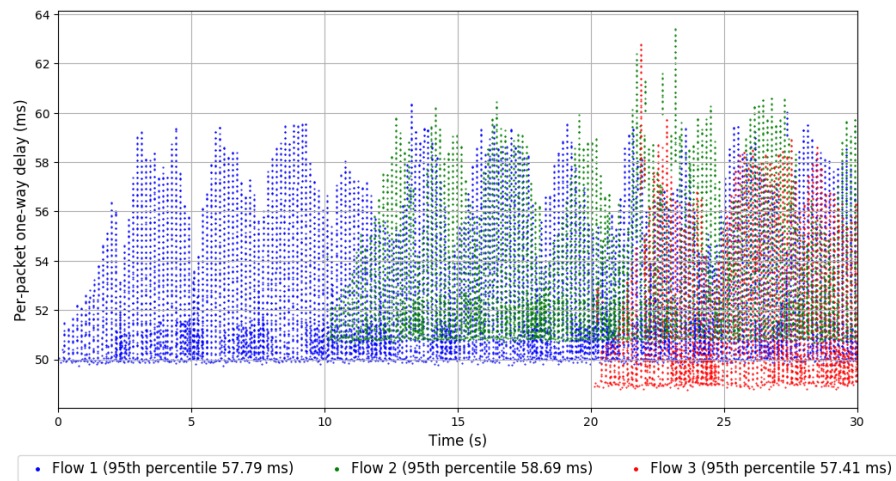
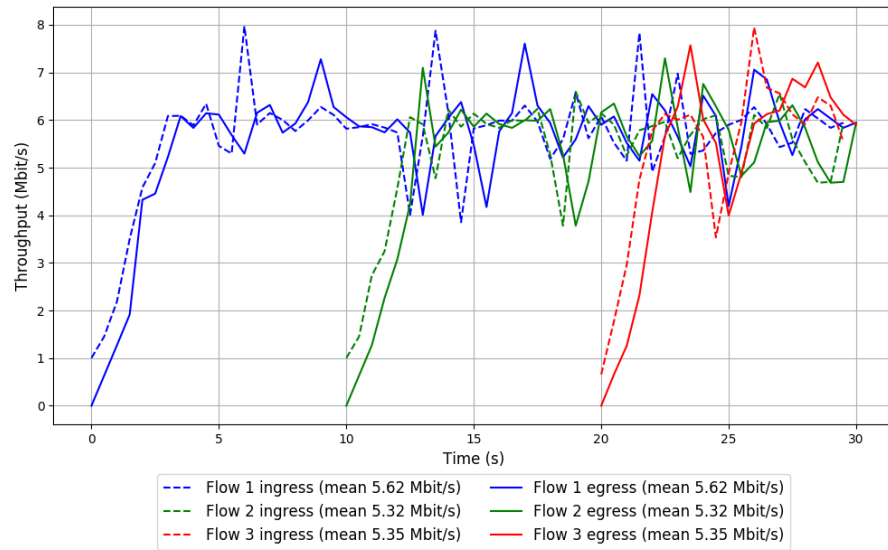


Run 3: Statistics of Sprout

Start at: 2019-11-24 08:28:53  
End at: 2019-11-24 08:29:23  
Local clock offset: -0.439 ms  
Remote clock offset: -7.801 ms

```
# Below is generated by plot.py at 2019-11-24 09:57:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 10.93 Mbit/s
95th percentile per-packet one-way delay: 58.077 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.62 Mbit/s
95th percentile per-packet one-way delay: 57.787 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 5.32 Mbit/s
95th percentile per-packet one-way delay: 58.693 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 5.35 Mbit/s
95th percentile per-packet one-way delay: 57.411 ms
Loss rate: 0.00%
```

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

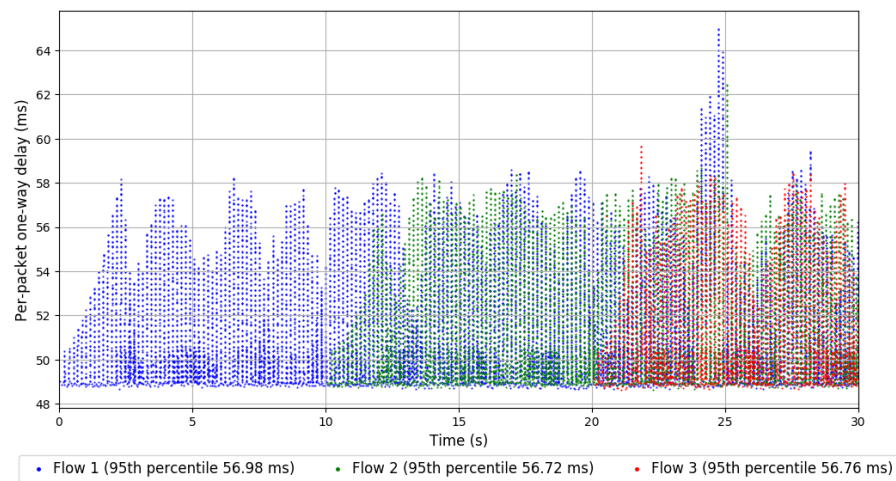
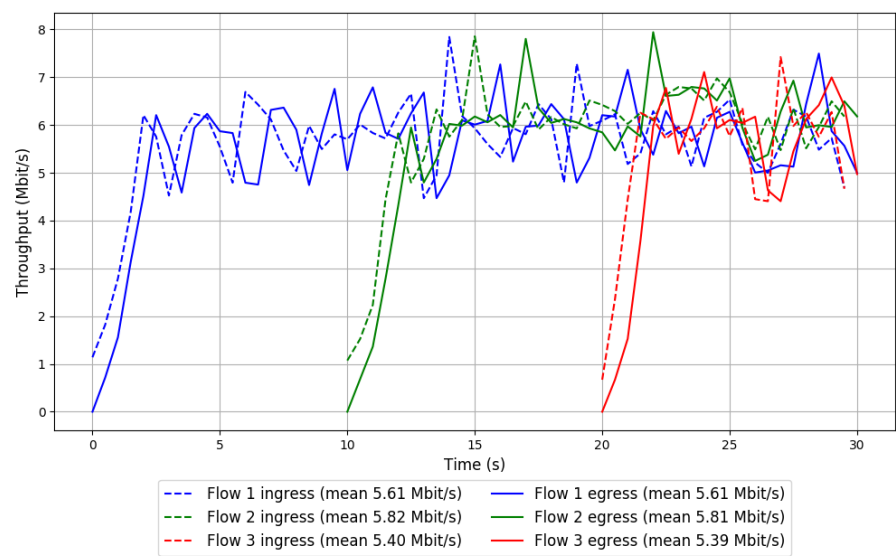


#### Run 4: Statistics of Sprout

Start at: 2019-11-24 08:58:52  
End at: 2019-11-24 08:59:22  
Local clock offset: -1.728 ms  
Remote clock offset: -8.303 ms

```
# Below is generated by plot.py at 2019-11-24 09:57:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.26 Mbit/s
95th percentile per-packet one-way delay: 56.841 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.61 Mbit/s
95th percentile per-packet one-way delay: 56.980 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 5.81 Mbit/s
95th percentile per-packet one-way delay: 56.723 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 5.39 Mbit/s
95th percentile per-packet one-way delay: 56.757 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

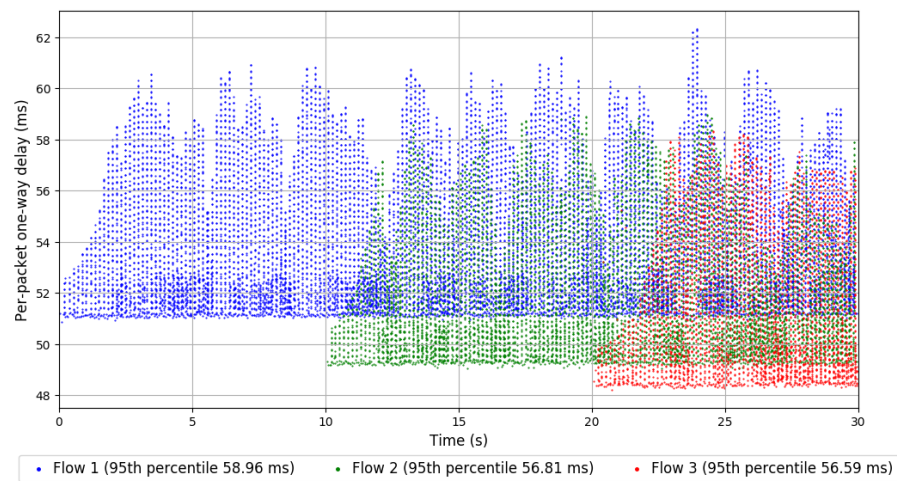
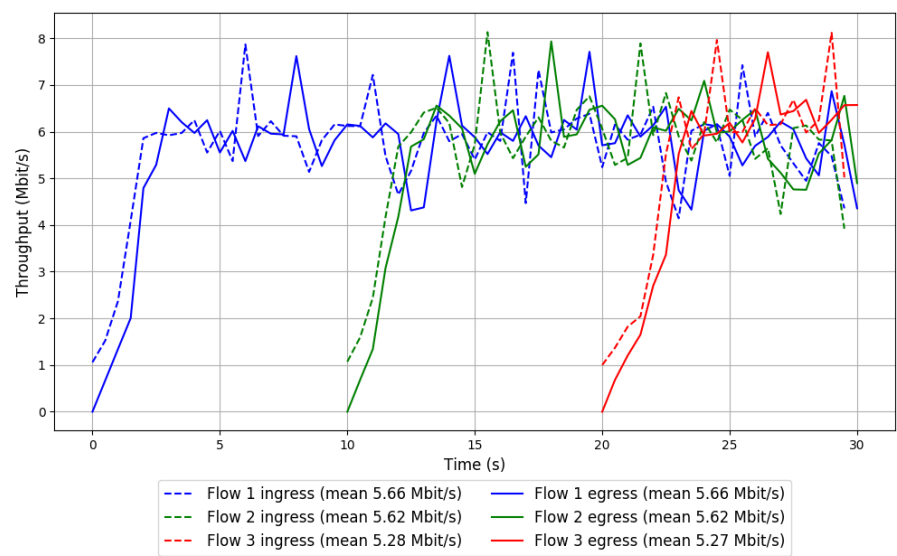


Run 5: Statistics of Sprout

Start at: 2019-11-24 09:29:00  
End at: 2019-11-24 09:29:30  
Local clock offset: -0.834 ms  
Remote clock offset: -8.247 ms

```
# Below is generated by plot.py at 2019-11-24 09:57:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.14 Mbit/s
95th percentile per-packet one-way delay: 58.238 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.66 Mbit/s
95th percentile per-packet one-way delay: 58.958 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 5.62 Mbit/s
95th percentile per-packet one-way delay: 56.811 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 5.27 Mbit/s
95th percentile per-packet one-way delay: 56.591 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

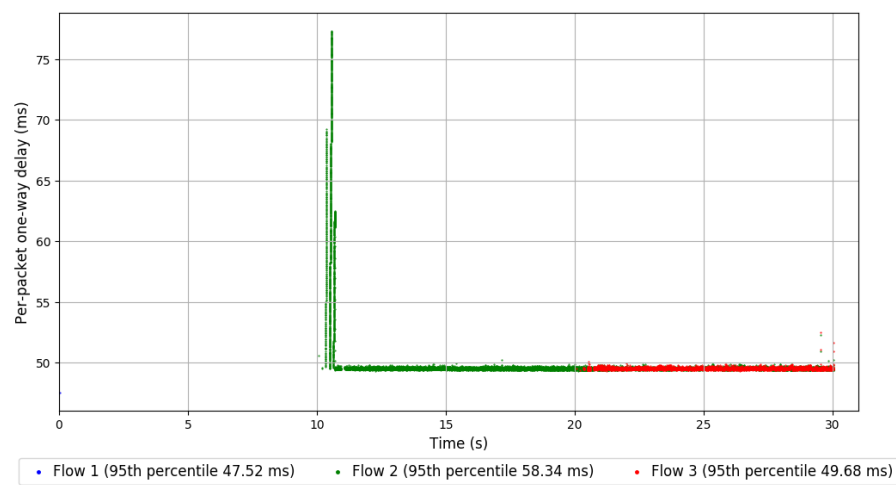
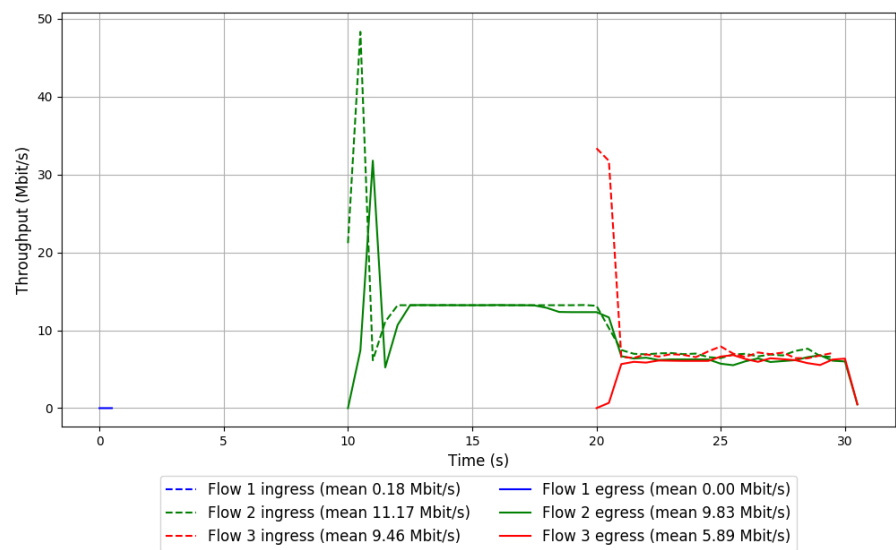


Run 1: Statistics of TaoVA-100x

Start at: 2019-11-24 07:19:06  
End at: 2019-11-24 07:19:36  
Local clock offset: -0.309 ms  
Remote clock offset: -8.572 ms

# Below is generated by plot.py at 2019-11-24 09:57:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.50 Mbit/s  
95th percentile per-packet one-way delay: 54.616 ms  
Loss rate: 19.67%  
-- Flow 1:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 47.516 ms  
Loss rate: 95.92%  
-- Flow 2:  
Average throughput: 9.83 Mbit/s  
95th percentile per-packet one-way delay: 58.335 ms  
Loss rate: 12.02%  
-- Flow 3:  
Average throughput: 5.89 Mbit/s  
95th percentile per-packet one-way delay: 49.680 ms  
Loss rate: 37.74%

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





Run 2: Statistics of TaoVA-100x

Start at: 2019-11-24 07:49:00

End at: 2019-11-24 07:49:30

Local clock offset: -0.154 ms

Remote clock offset: -6.96 ms

# Below is generated by plot.py at 2019-11-24 09:57:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 8.50 Mbit/s

95th percentile per-packet one-way delay: 55.189 ms

Loss rate: 73.94%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 51.242 ms

Loss rate: 95.92%

-- Flow 2:

Average throughput: 9.07 Mbit/s

95th percentile per-packet one-way delay: 59.937 ms

Loss rate: 19.55%

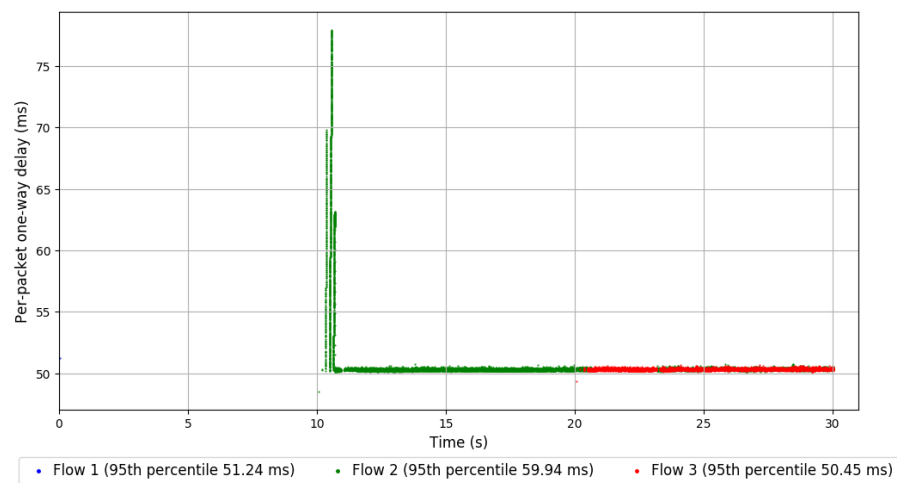
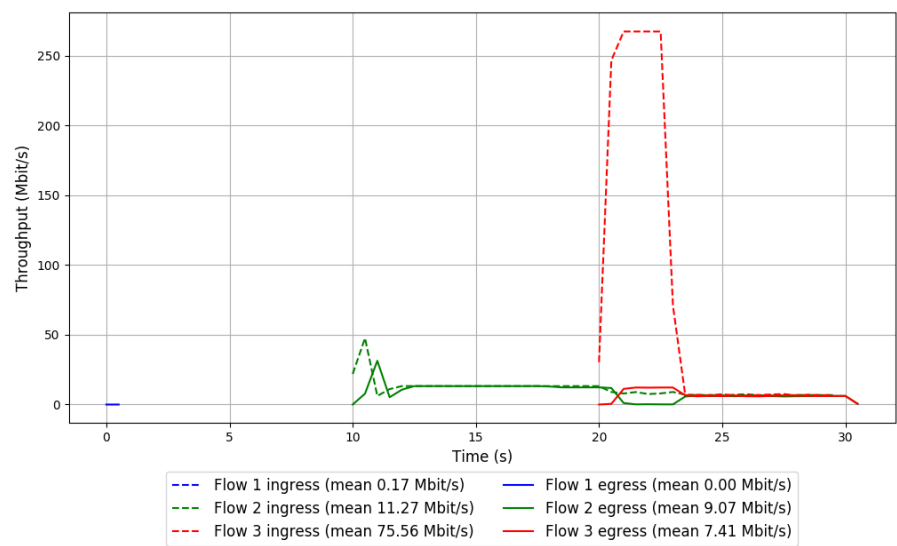
-- Flow 3:

Average throughput: 7.41 Mbit/s

95th percentile per-packet one-way delay: 50.449 ms

Loss rate: 90.19%

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

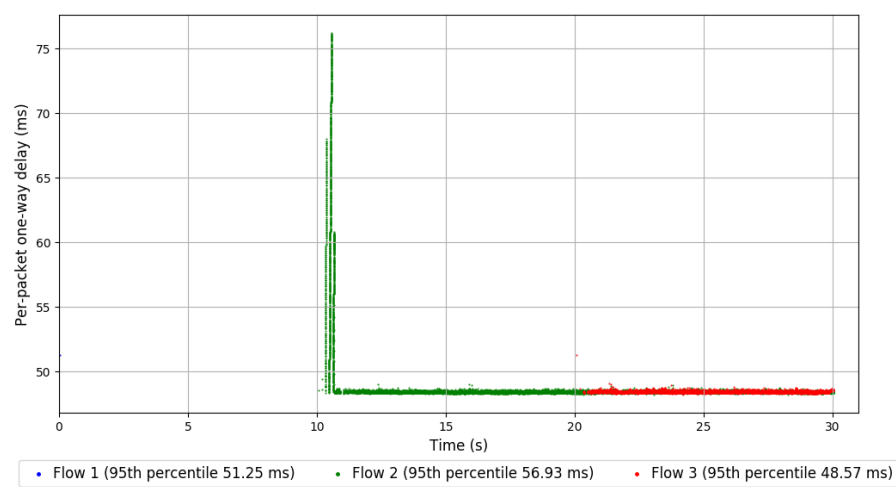
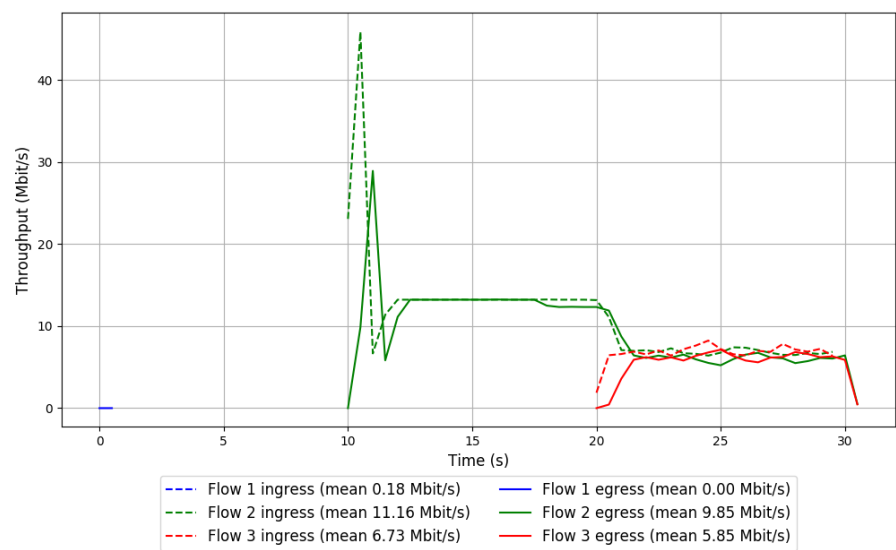


Run 3: Statistics of TaoVA-100x

Start at: 2019-11-24 08:18:59  
End at: 2019-11-24 08:19:29  
Local clock offset: -0.847 ms  
Remote clock offset: -6.974 ms

# Below is generated by plot.py at 2019-11-24 09:57:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.51 Mbit/s  
95th percentile per-packet one-way delay: 53.262 ms  
Loss rate: 12.09%  
-- Flow 1:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 51.254 ms  
Loss rate: 95.92%  
-- Flow 2:  
Average throughput: 9.85 Mbit/s  
95th percentile per-packet one-way delay: 56.934 ms  
Loss rate: 11.78%  
-- Flow 3:  
Average throughput: 5.85 Mbit/s  
95th percentile per-packet one-way delay: 48.570 ms  
Loss rate: 13.10%

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

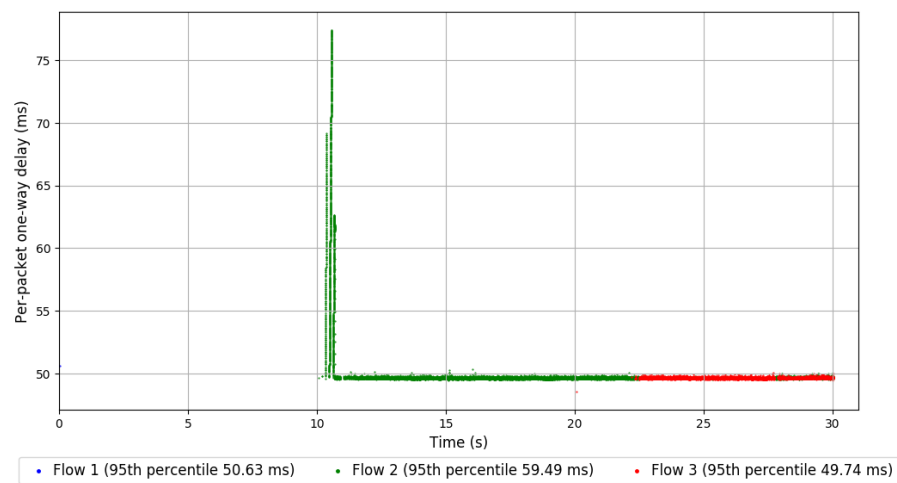
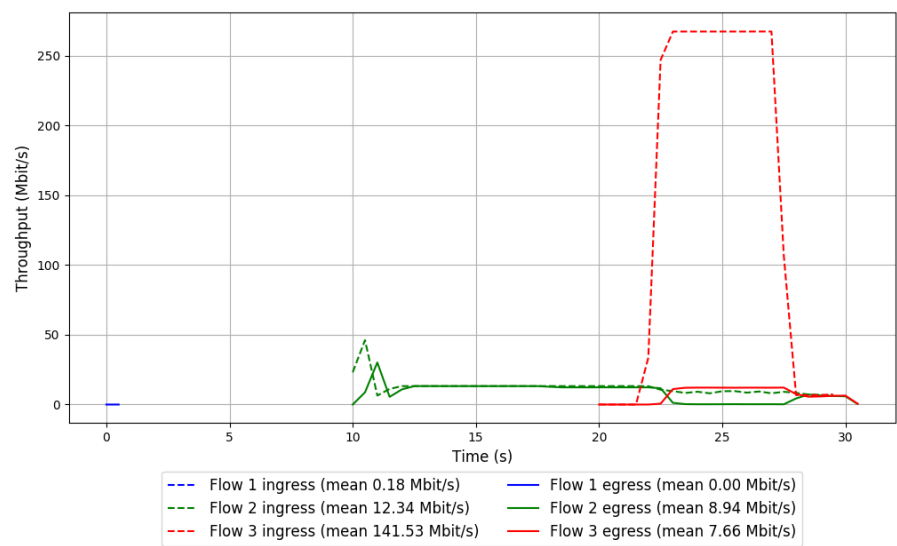


Run 4: Statistics of TaoVA-100x

Start at: 2019-11-24 08:48:57  
End at: 2019-11-24 08:49:28  
Local clock offset: -0.869 ms  
Remote clock offset: -9.108 ms

# Below is generated by plot.py at 2019-11-24 09:57:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.50 Mbit/s  
95th percentile per-packet one-way delay: 54.567 ms  
Loss rate: 84.61%  
-- Flow 1:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 50.633 ms  
Loss rate: 95.92%  
-- Flow 2:  
Average throughput: 8.94 Mbit/s  
95th percentile per-packet one-way delay: 59.488 ms  
Loss rate: 27.54%  
-- Flow 3:  
Average throughput: 7.66 Mbit/s  
95th percentile per-packet one-way delay: 49.741 ms  
Loss rate: 94.59%

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

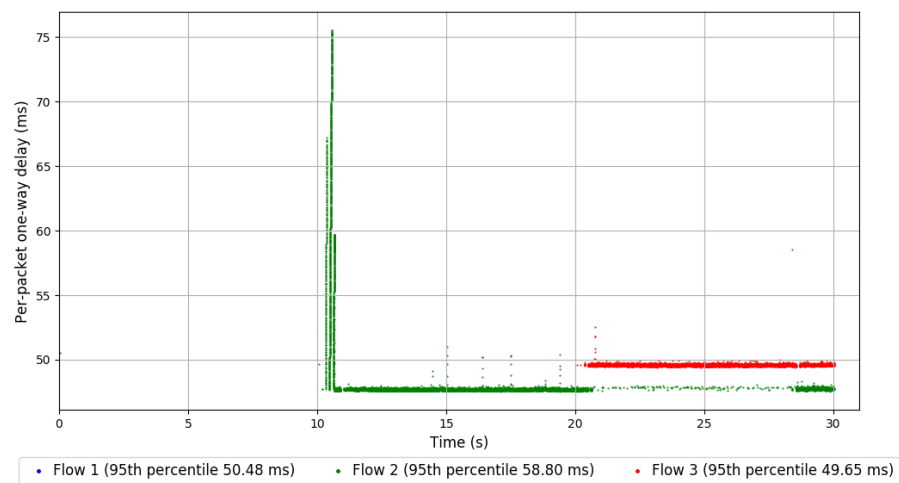
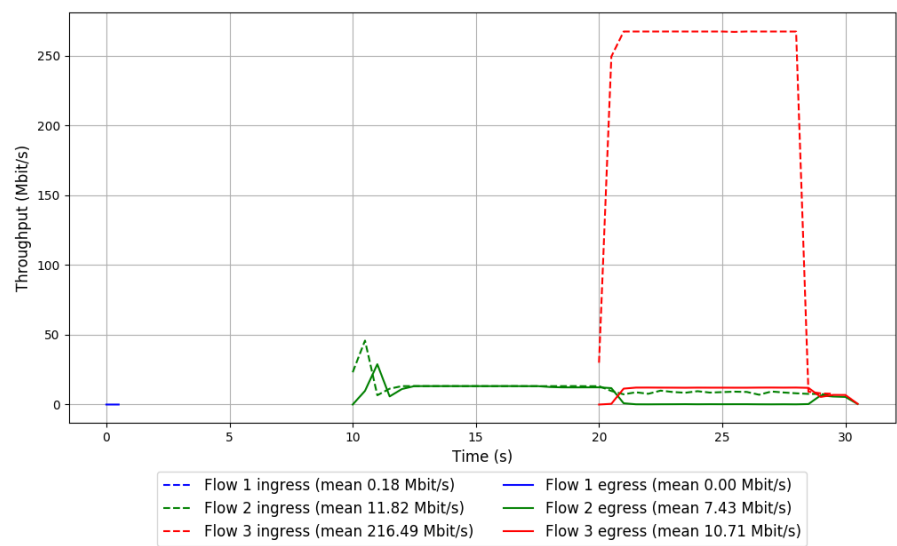


Run 5: Statistics of TaoVA-100x

Start at: 2019-11-24 09:19:04  
End at: 2019-11-24 09:19:34  
Local clock offset: -0.345 ms  
Remote clock offset: -8.324 ms

# Below is generated by plot.py at 2019-11-24 09:57:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.51 Mbit/s  
95th percentile per-packet one-way delay: 52.511 ms  
Loss rate: 89.35%  
-- Flow 1:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 50.485 ms  
Loss rate: 95.92%  
-- Flow 2:  
Average throughput: 7.43 Mbit/s  
95th percentile per-packet one-way delay: 58.798 ms  
Loss rate: 37.17%  
-- Flow 3:  
Average throughput: 10.71 Mbit/s  
95th percentile per-packet one-way delay: 49.654 ms  
Loss rate: 95.06%

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



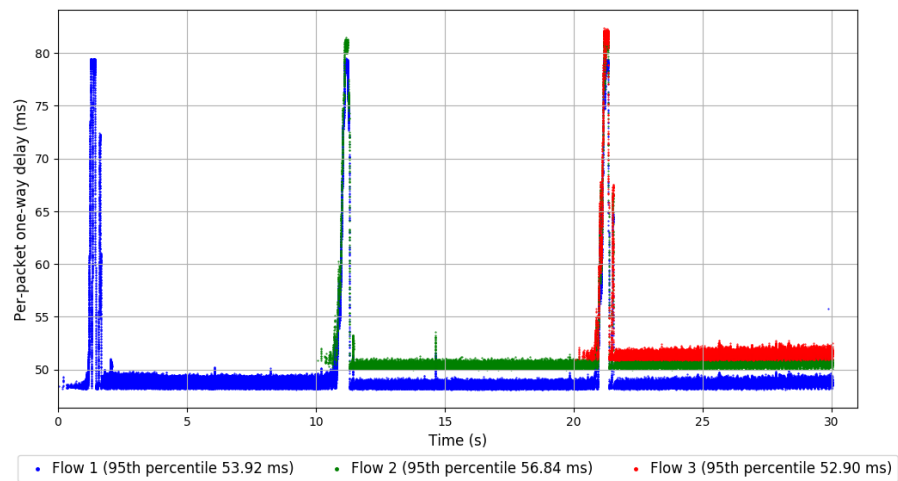
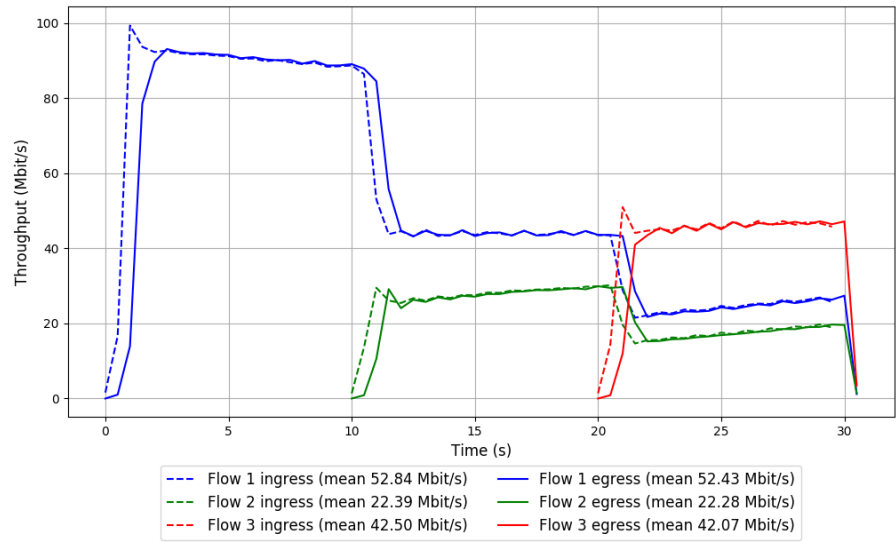


Run 1: Statistics of TCP Vegas

Start at: 2019-11-24 07:30:12  
End at: 2019-11-24 07:30:42  
Local clock offset: -0.762 ms  
Remote clock offset: -7.571 ms

# Below is generated by plot.py at 2019-11-24 09:58:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 81.27 Mbit/s  
95th percentile per-packet one-way delay: 54.170 ms  
Loss rate: 0.77%  
-- Flow 1:  
Average throughput: 52.43 Mbit/s  
95th percentile per-packet one-way delay: 53.918 ms  
Loss rate: 0.78%  
-- Flow 2:  
Average throughput: 22.28 Mbit/s  
95th percentile per-packet one-way delay: 56.835 ms  
Loss rate: 0.48%  
-- Flow 3:  
Average throughput: 42.07 Mbit/s  
95th percentile per-packet one-way delay: 52.896 ms  
Loss rate: 1.02%

# Run 1: Report of TCP Vegas — Data Link

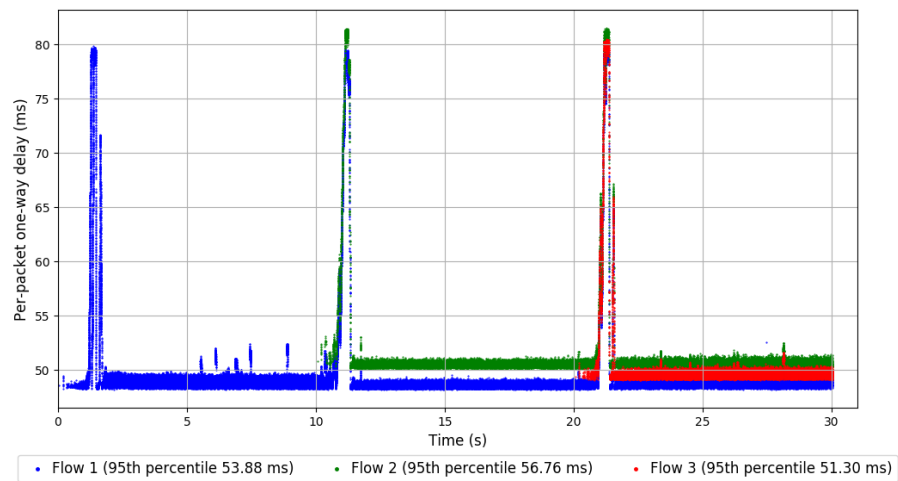
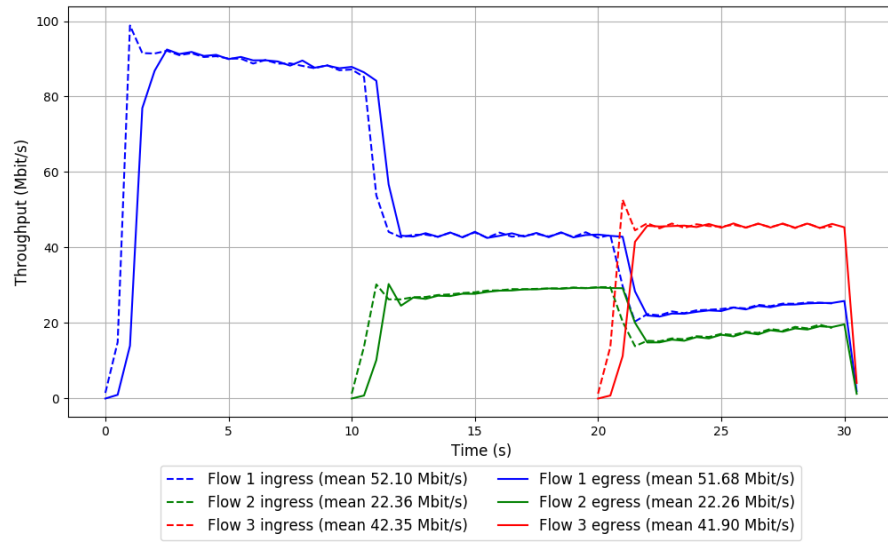


Run 2: Statistics of TCP Vegas

Start at: 2019-11-24 08:00:07  
End at: 2019-11-24 08:00:37  
Local clock offset: 0.165 ms  
Remote clock offset: -7.238 ms

# Below is generated by plot.py at 2019-11-24 09:58:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 80.44 Mbit/s  
95th percentile per-packet one-way delay: 54.005 ms  
Loss rate: 0.78%  
-- Flow 1:  
Average throughput: 51.68 Mbit/s  
95th percentile per-packet one-way delay: 53.884 ms  
Loss rate: 0.80%  
-- Flow 2:  
Average throughput: 22.26 Mbit/s  
95th percentile per-packet one-way delay: 56.764 ms  
Loss rate: 0.47%  
-- Flow 3:  
Average throughput: 41.90 Mbit/s  
95th percentile per-packet one-way delay: 51.304 ms  
Loss rate: 1.04%

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

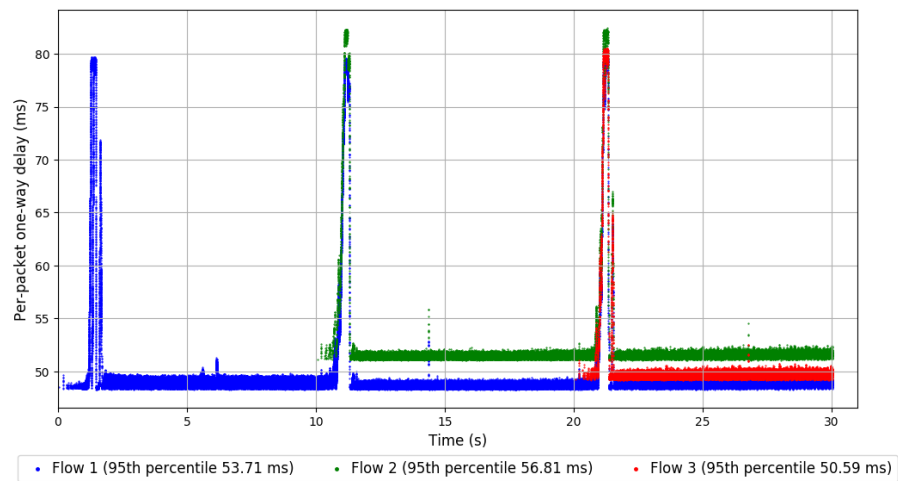
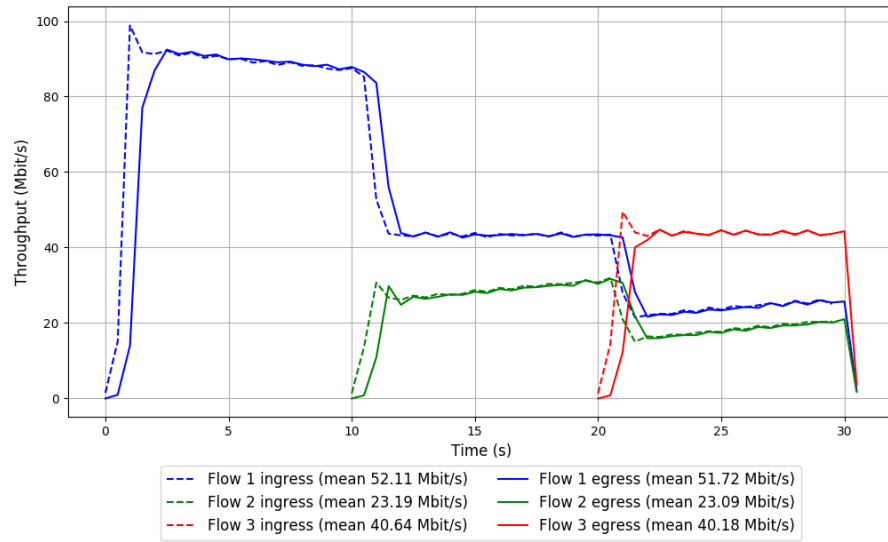


Run 3: Statistics of TCP Vegas

Start at: 2019-11-24 08:30:05  
End at: 2019-11-24 08:30:35  
Local clock offset: -1.282 ms  
Remote clock offset: -8.429 ms

# Below is generated by plot.py at 2019-11-24 09:58:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 80.45 Mbit/s  
95th percentile per-packet one-way delay: 53.888 ms  
Loss rate: 0.76%  
-- Flow 1:  
Average throughput: 51.72 Mbit/s  
95th percentile per-packet one-way delay: 53.714 ms  
Loss rate: 0.76%  
-- Flow 2:  
Average throughput: 23.09 Mbit/s  
95th percentile per-packet one-way delay: 56.811 ms  
Loss rate: 0.43%  
-- Flow 3:  
Average throughput: 40.18 Mbit/s  
95th percentile per-packet one-way delay: 50.592 ms  
Loss rate: 1.13%

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

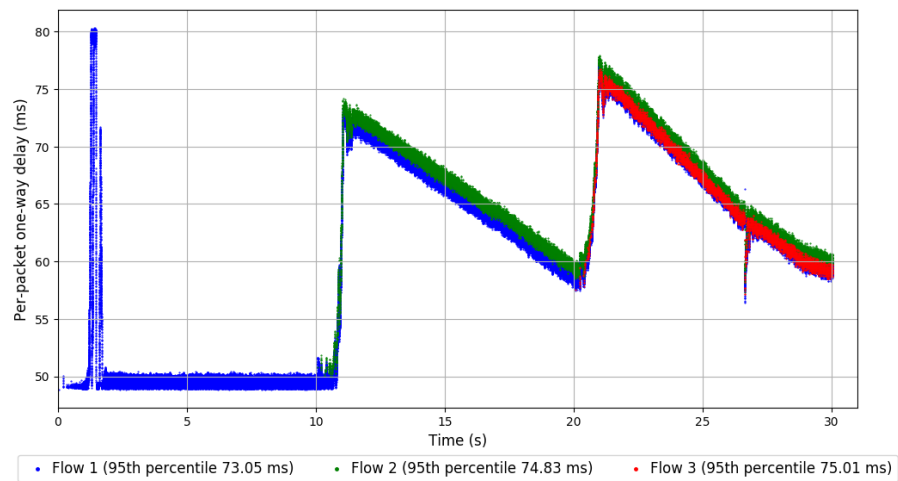
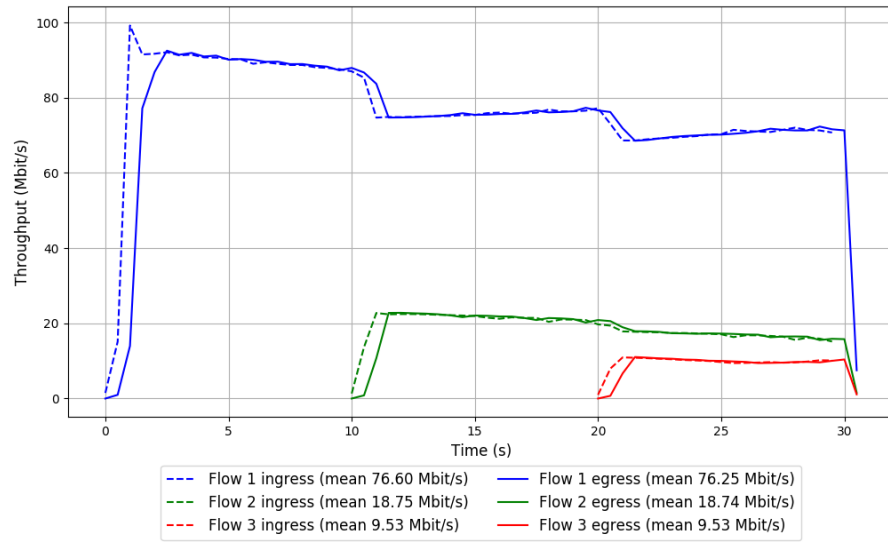


Run 4: Statistics of TCP Vegas

Start at: 2019-11-24 09:00:04  
End at: 2019-11-24 09:00:34  
Local clock offset: -1.672 ms  
Remote clock offset: -8.126 ms

# Below is generated by plot.py at 2019-11-24 09:58:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.90 Mbit/s  
95th percentile per-packet one-way delay: 73.660 ms  
Loss rate: 0.34%  
-- Flow 1:  
Average throughput: 76.25 Mbit/s  
95th percentile per-packet one-way delay: 73.046 ms  
Loss rate: 0.41%  
-- Flow 2:  
Average throughput: 18.74 Mbit/s  
95th percentile per-packet one-way delay: 74.829 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 9.53 Mbit/s  
95th percentile per-packet one-way delay: 75.007 ms  
Loss rate: 0.00%

# Run 4: Report of TCP Vegas — Data Link



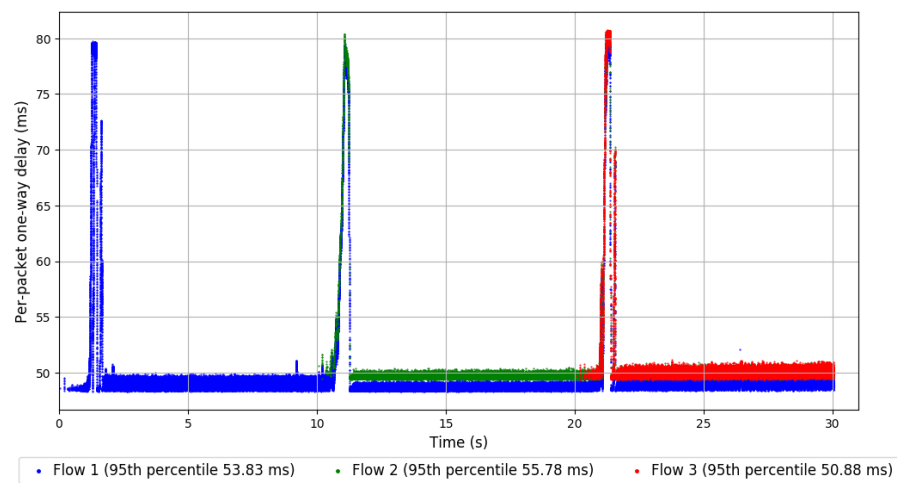
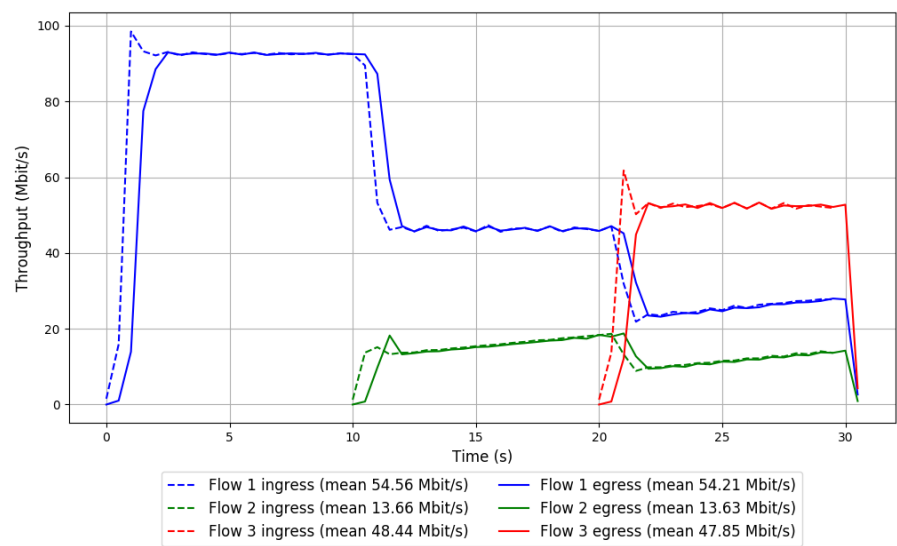


Run 5: Statistics of TCP Vegas

Start at: 2019-11-24 09:30:12  
End at: 2019-11-24 09:30:42  
Local clock offset: -0.069 ms  
Remote clock offset: -8.491 ms

# Below is generated by plot.py at 2019-11-24 09:58:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 79.19 Mbit/s  
95th percentile per-packet one-way delay: 53.503 ms  
Loss rate: 0.70%  
-- Flow 1:  
Average throughput: 54.21 Mbit/s  
95th percentile per-packet one-way delay: 53.830 ms  
Loss rate: 0.64%  
-- Flow 2:  
Average throughput: 13.63 Mbit/s  
95th percentile per-packet one-way delay: 55.778 ms  
Loss rate: 0.22%  
-- Flow 3:  
Average throughput: 47.85 Mbit/s  
95th percentile per-packet one-way delay: 50.882 ms  
Loss rate: 1.20%

Run 5: Report of TCP Vegas — Data Link

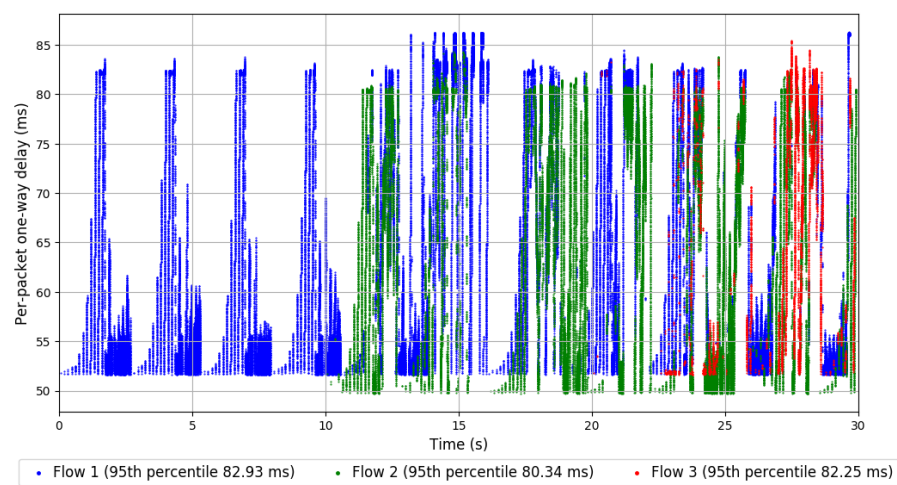
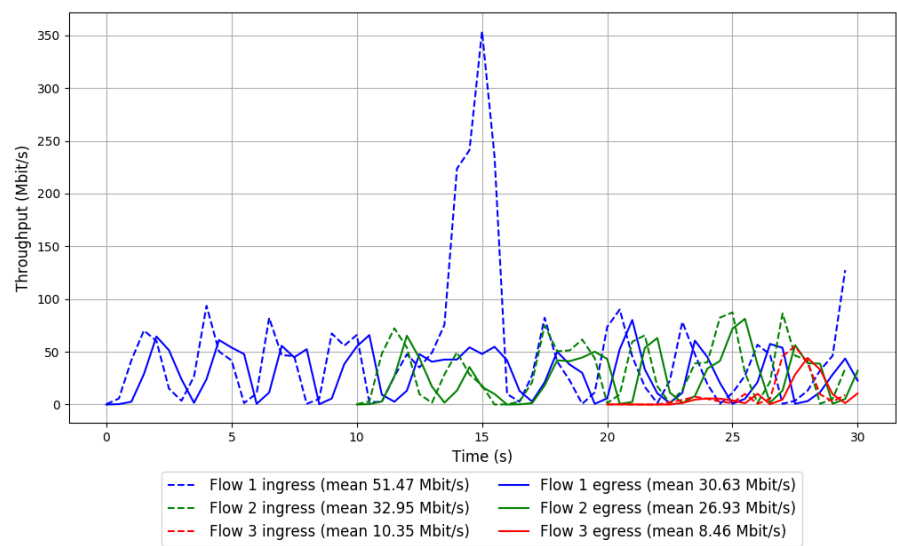


Run 1: Statistics of Verus

Start at: 2019-11-24 07:43:58  
End at: 2019-11-24 07:44:28  
Local clock offset: -0.379 ms  
Remote clock offset: -6.129 ms

# Below is generated by plot.py at 2019-11-24 09:58:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 51.05 Mbit/s  
95th percentile per-packet one-way delay: 82.293 ms  
Loss rate: 33.04%  
-- Flow 1:  
Average throughput: 30.63 Mbit/s  
95th percentile per-packet one-way delay: 82.934 ms  
Loss rate: 40.42%  
-- Flow 2:  
Average throughput: 26.93 Mbit/s  
95th percentile per-packet one-way delay: 80.344 ms  
Loss rate: 18.14%  
-- Flow 3:  
Average throughput: 8.46 Mbit/s  
95th percentile per-packet one-way delay: 82.245 ms  
Loss rate: 18.13%

Run 1: Report of Verus — Data Link

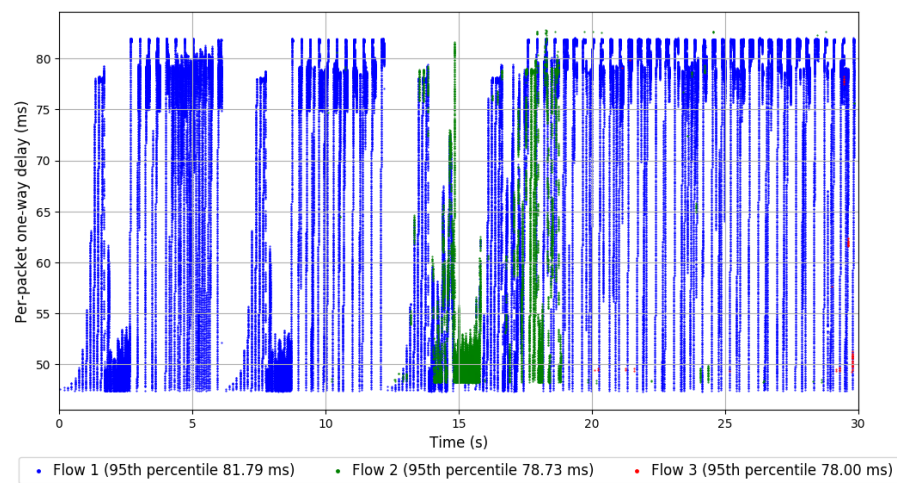
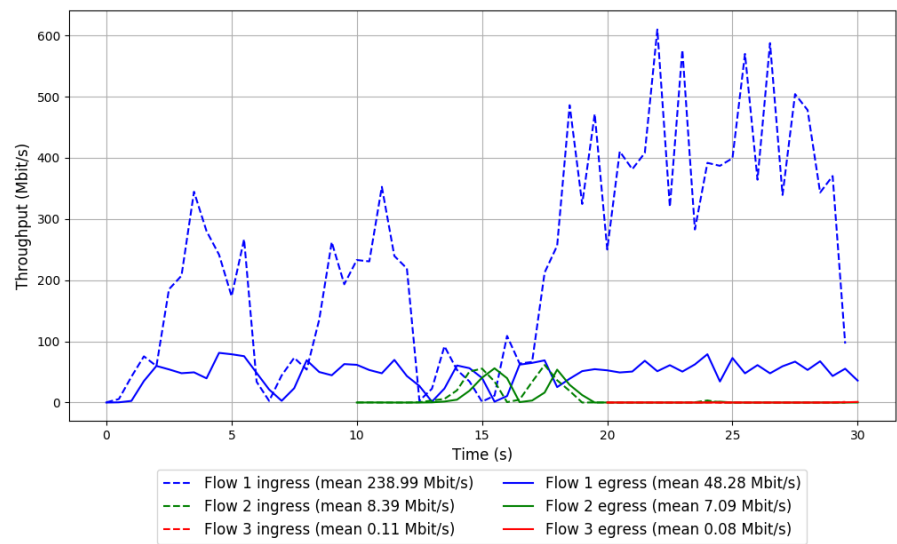


Run 2: Statistics of Verus

Start at: 2019-11-24 08:13:54  
End at: 2019-11-24 08:14:24  
Local clock offset: 0.437 ms  
Remote clock offset: -7.146 ms

# Below is generated by plot.py at 2019-11-24 09:58:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 53.01 Mbit/s  
95th percentile per-packet one-way delay: 81.780 ms  
Loss rate: 78.30%  
-- Flow 1:  
Average throughput: 48.28 Mbit/s  
95th percentile per-packet one-way delay: 81.786 ms  
Loss rate: 79.77%  
-- Flow 2:  
Average throughput: 7.09 Mbit/s  
95th percentile per-packet one-way delay: 78.726 ms  
Loss rate: 15.46%  
-- Flow 3:  
Average throughput: 0.08 Mbit/s  
95th percentile per-packet one-way delay: 78.002 ms  
Loss rate: 24.14%

Run 2: Report of Verus — Data Link

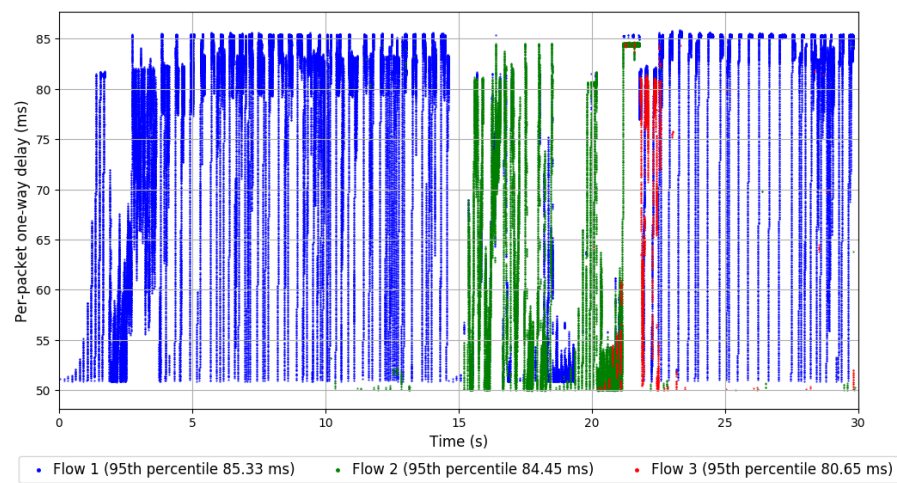
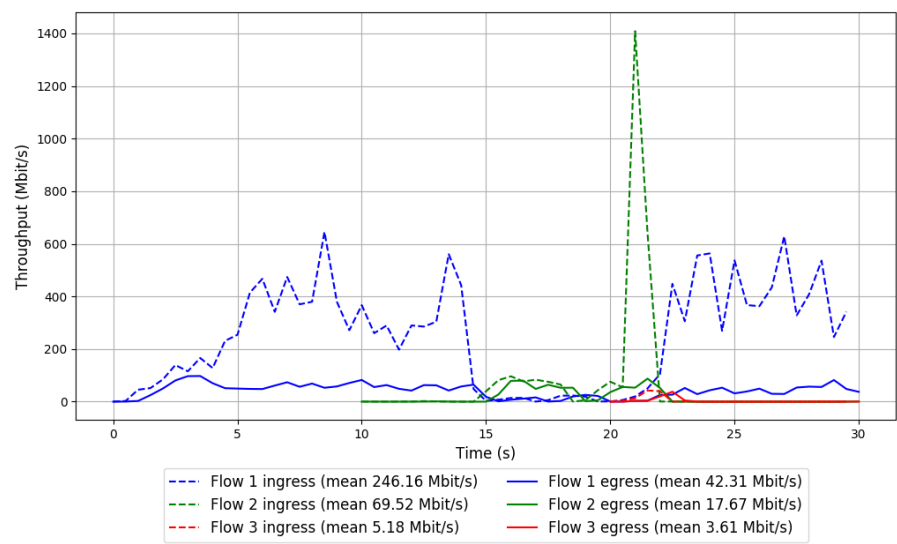


Run 3: Statistics of Verus

Start at: 2019-11-24 08:43:52  
End at: 2019-11-24 08:44:22  
Local clock offset: -0.724 ms  
Remote clock offset: -8.452 ms

# Below is generated by plot.py at 2019-11-24 09:59:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 55.14 Mbit/s  
95th percentile per-packet one-way delay: 85.317 ms  
Loss rate: 81.20%  
-- Flow 1:  
Average throughput: 42.31 Mbit/s  
95th percentile per-packet one-way delay: 85.335 ms  
Loss rate: 82.79%  
-- Flow 2:  
Average throughput: 17.67 Mbit/s  
95th percentile per-packet one-way delay: 84.455 ms  
Loss rate: 74.59%  
-- Flow 3:  
Average throughput: 3.61 Mbit/s  
95th percentile per-packet one-way delay: 80.648 ms  
Loss rate: 30.43%

Run 3: Report of Verus — Data Link



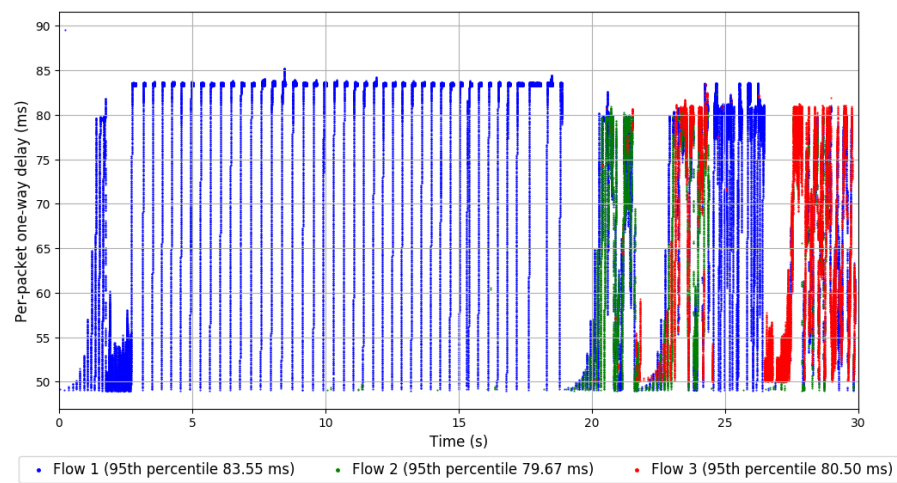
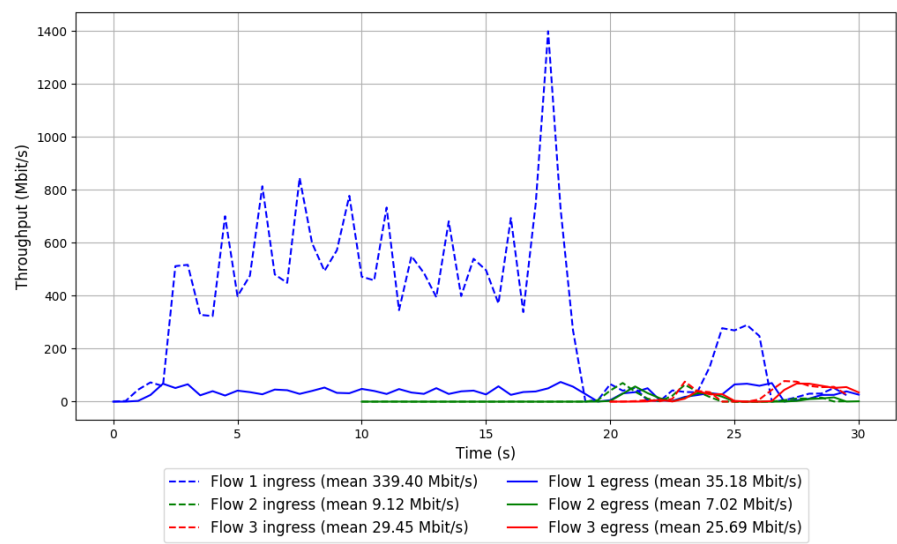


Run 4: Statistics of Verus

Start at: 2019-11-24 09:13:50  
End at: 2019-11-24 09:14:20  
Local clock offset: -1.37 ms  
Remote clock offset: -8.543 ms

# Below is generated by plot.py at 2019-11-24 09:59:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 48.28 Mbit/s  
95th percentile per-packet one-way delay: 83.530 ms  
Loss rate: 86.40%  
-- Flow 1:  
Average throughput: 35.18 Mbit/s  
95th percentile per-packet one-way delay: 83.546 ms  
Loss rate: 89.63%  
-- Flow 2:  
Average throughput: 7.02 Mbit/s  
95th percentile per-packet one-way delay: 79.665 ms  
Loss rate: 23.02%  
-- Flow 3:  
Average throughput: 25.69 Mbit/s  
95th percentile per-packet one-way delay: 80.500 ms  
Loss rate: 12.67%

Run 4: Report of Verus — Data Link

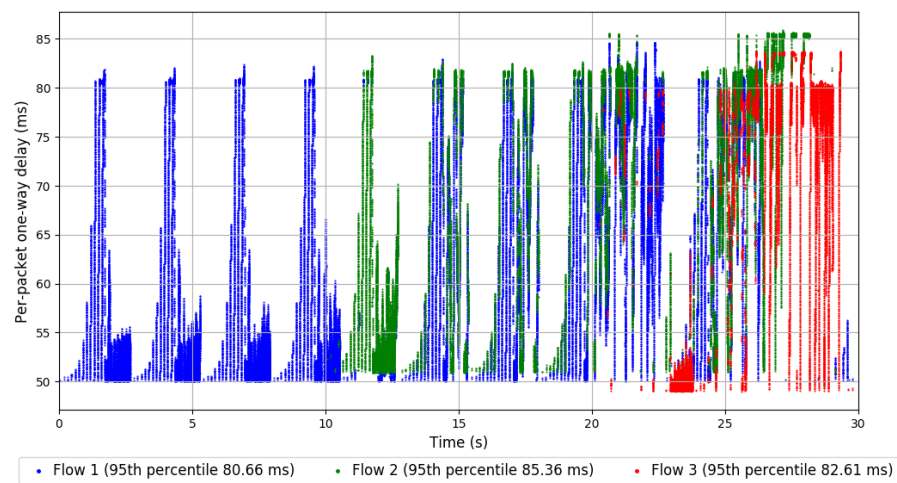
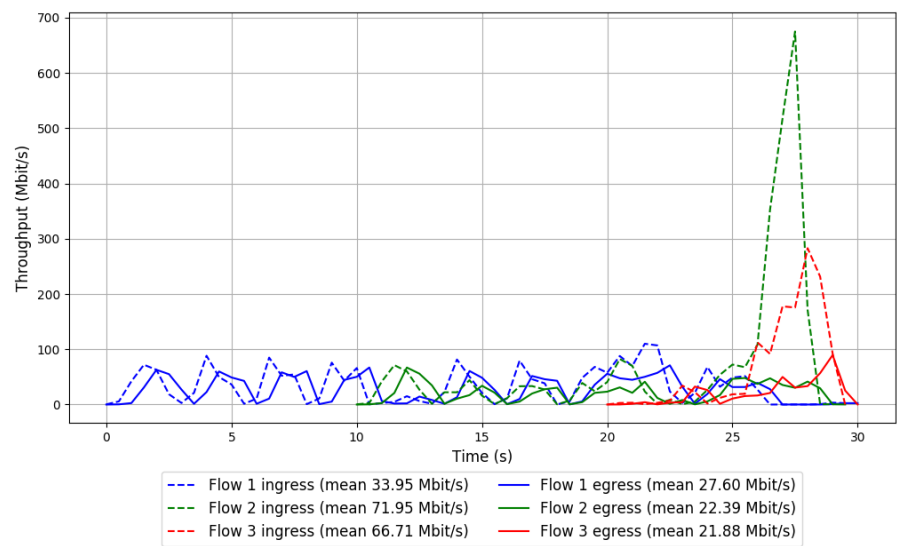


Run 5: Statistics of Verus

Start at: 2019-11-24 09:43:59  
End at: 2019-11-24 09:44:29  
Local clock offset: -0.066 ms  
Remote clock offset: -8.884 ms

# Below is generated by plot.py at 2019-11-24 09:59:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 49.08 Mbit/s  
95th percentile per-packet one-way delay: 82.618 ms  
Loss rate: 51.96%  
-- Flow 1:  
Average throughput: 27.60 Mbit/s  
95th percentile per-packet one-way delay: 80.661 ms  
Loss rate: 18.72%  
-- Flow 2:  
Average throughput: 22.39 Mbit/s  
95th percentile per-packet one-way delay: 85.359 ms  
Loss rate: 69.11%  
-- Flow 3:  
Average throughput: 21.88 Mbit/s  
95th percentile per-packet one-way delay: 82.609 ms  
Loss rate: 67.21%

Run 5: Report of Verus — Data Link

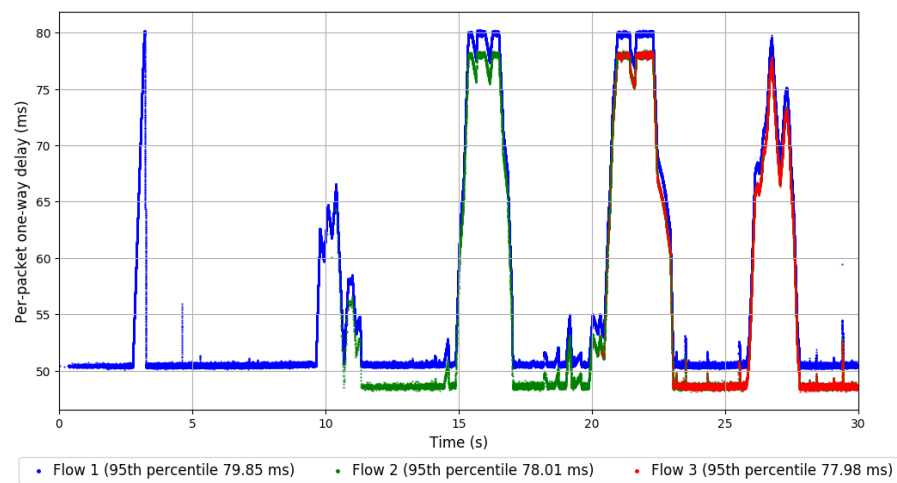
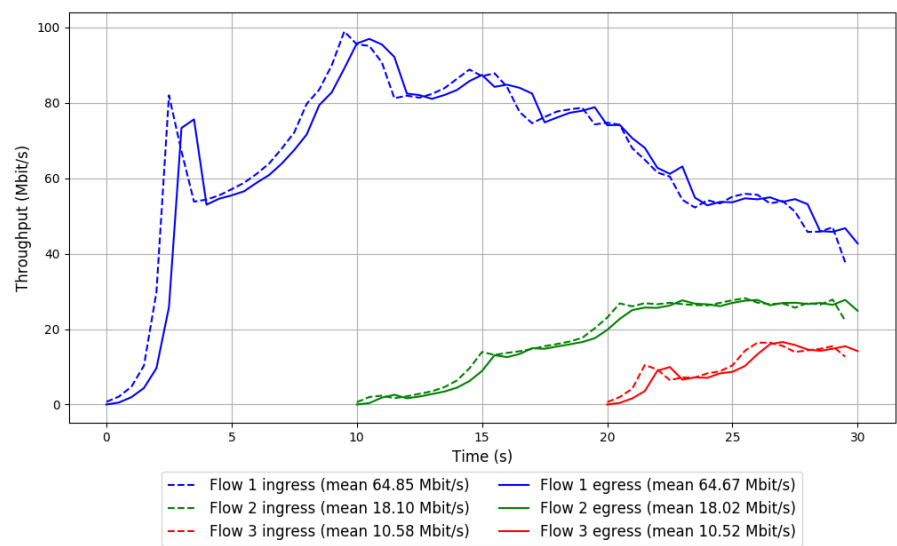


Run 1: Statistics of PCC-Vivace

Start at: 2019-11-24 07:17:49  
End at: 2019-11-24 07:18:19  
Local clock offset: -0.4 ms  
Remote clock offset: -8.748 ms

# Below is generated by plot.py at 2019-11-24 09:59:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 80.12 Mbit/s  
95th percentile per-packet one-way delay: 79.769 ms  
Loss rate: 0.33%  
-- Flow 1:  
Average throughput: 64.67 Mbit/s  
95th percentile per-packet one-way delay: 79.849 ms  
Loss rate: 0.28%  
-- Flow 2:  
Average throughput: 18.02 Mbit/s  
95th percentile per-packet one-way delay: 78.013 ms  
Loss rate: 0.51%  
-- Flow 3:  
Average throughput: 10.52 Mbit/s  
95th percentile per-packet one-way delay: 77.980 ms  
Loss rate: 0.61%

Run 1: Report of PCC-Vivace — Data Link

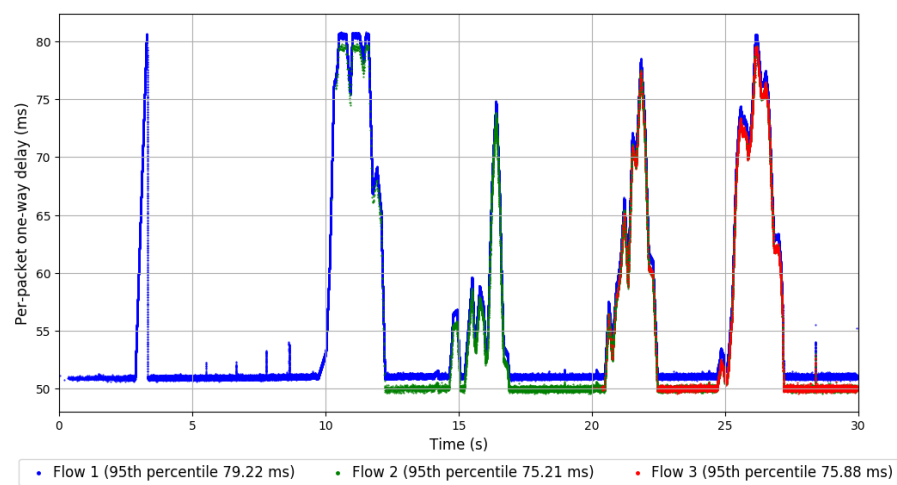
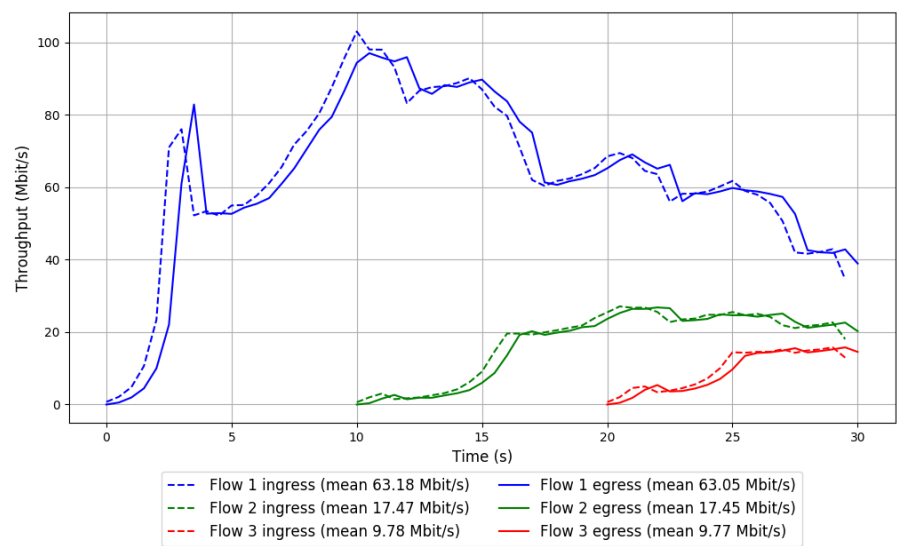


Run 2: Statistics of PCC-Vivace

Start at: 2019-11-24 07:47:43  
End at: 2019-11-24 07:48:13  
Local clock offset: -0.205 ms  
Remote clock offset: -6.193 ms

# Below is generated by plot.py at 2019-11-24 09:59:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 77.88 Mbit/s  
95th percentile per-packet one-way delay: 78.424 ms  
Loss rate: 0.18%  
-- Flow 1:  
Average throughput: 63.05 Mbit/s  
95th percentile per-packet one-way delay: 79.216 ms  
Loss rate: 0.20%  
-- Flow 2:  
Average throughput: 17.45 Mbit/s  
95th percentile per-packet one-way delay: 75.207 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 9.77 Mbit/s  
95th percentile per-packet one-way delay: 75.877 ms  
Loss rate: 0.06%

Run 2: Report of PCC-Vivace — Data Link





Run 3: Statistics of PCC-Vivace

Start at: 2019-11-24 08:17:42

End at: 2019-11-24 08:18:12

Local clock offset: -0.69 ms

Remote clock offset: -6.97 ms

# Below is generated by plot.py at 2019-11-24 09:59:20

# Datalink statistics

-- Total of 3 flows:

Average throughput: 78.20 Mbit/s

95th percentile per-packet one-way delay: 78.798 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 63.53 Mbit/s

95th percentile per-packet one-way delay: 78.787 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 18.20 Mbit/s

95th percentile per-packet one-way delay: 80.604 ms

Loss rate: 0.67%

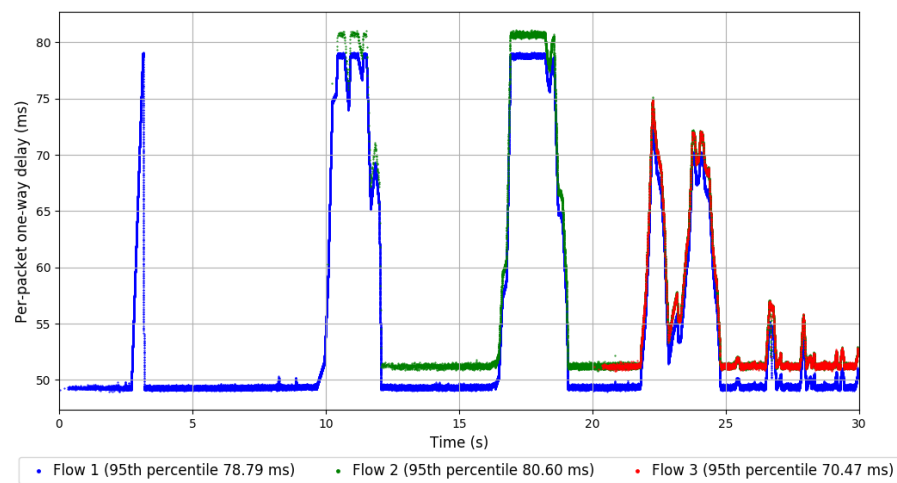
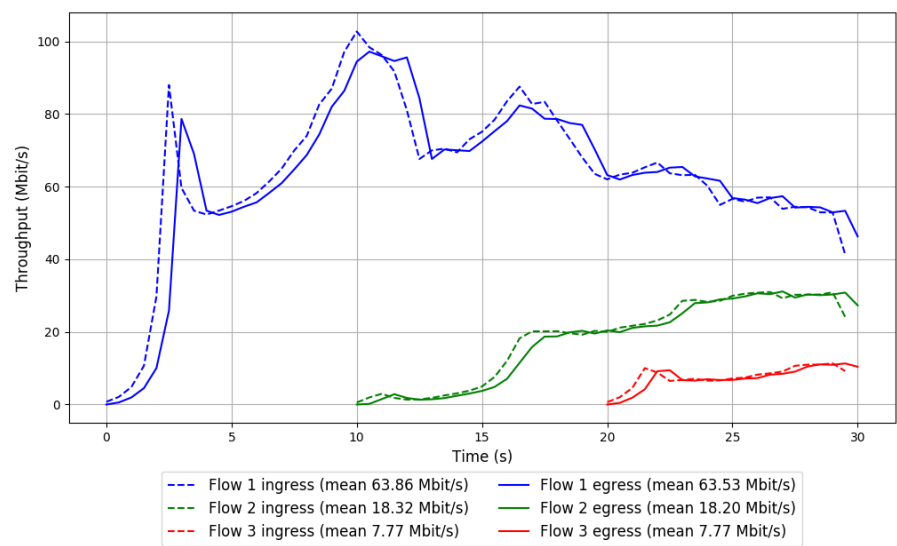
-- Flow 3:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 70.472 ms

Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link

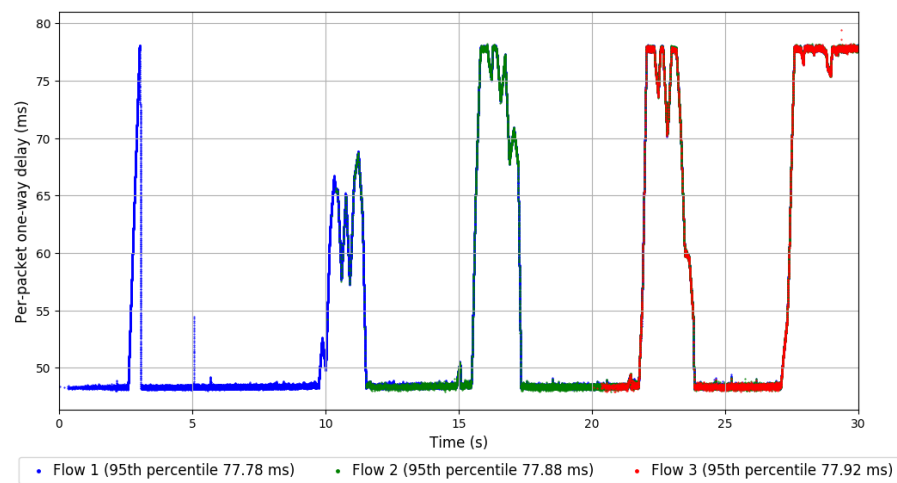
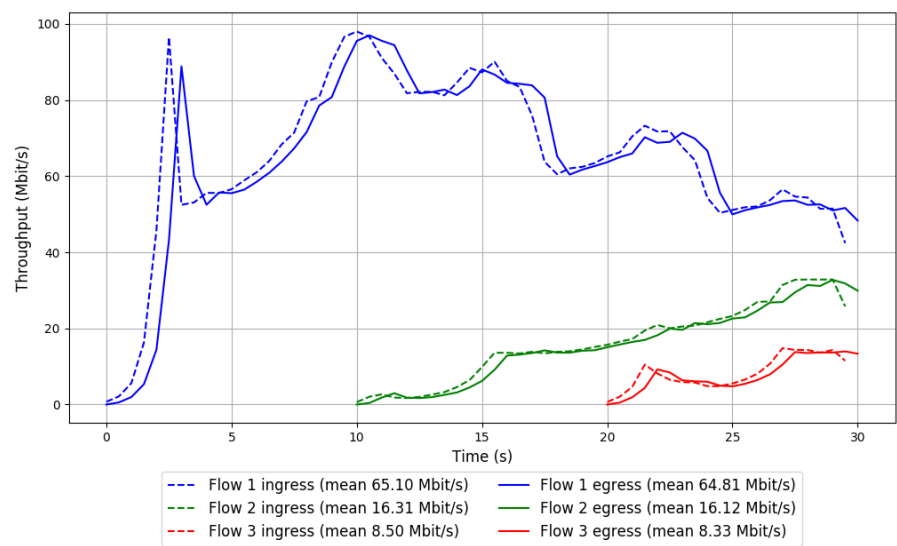


Run 4: Statistics of PCC-Vivace

Start at: 2019-11-24 08:47:41  
End at: 2019-11-24 08:48:11  
Local clock offset: -1.505 ms  
Remote clock offset: -9.179 ms

# Below is generated by plot.py at 2019-11-24 09:59:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 78.29 Mbit/s  
95th percentile per-packet one-way delay: 77.816 ms  
Loss rate: 0.49%  
-- Flow 1:  
Average throughput: 64.81 Mbit/s  
95th percentile per-packet one-way delay: 77.779 ms  
Loss rate: 0.35%  
-- Flow 2:  
Average throughput: 16.12 Mbit/s  
95th percentile per-packet one-way delay: 77.883 ms  
Loss rate: 1.05%  
-- Flow 3:  
Average throughput: 8.33 Mbit/s  
95th percentile per-packet one-way delay: 77.917 ms  
Loss rate: 1.67%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-11-24 09:17:47

End at: 2019-11-24 09:18:17

Local clock offset: -1.218 ms

Remote clock offset: -8.4 ms

# Below is generated by plot.py at 2019-11-24 09:59:20

# Datalink statistics

-- Total of 3 flows:

Average throughput: 77.88 Mbit/s

95th percentile per-packet one-way delay: 75.261 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 61.08 Mbit/s

95th percentile per-packet one-way delay: 74.686 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 20.15 Mbit/s

95th percentile per-packet one-way delay: 77.182 ms

Loss rate: 0.09%

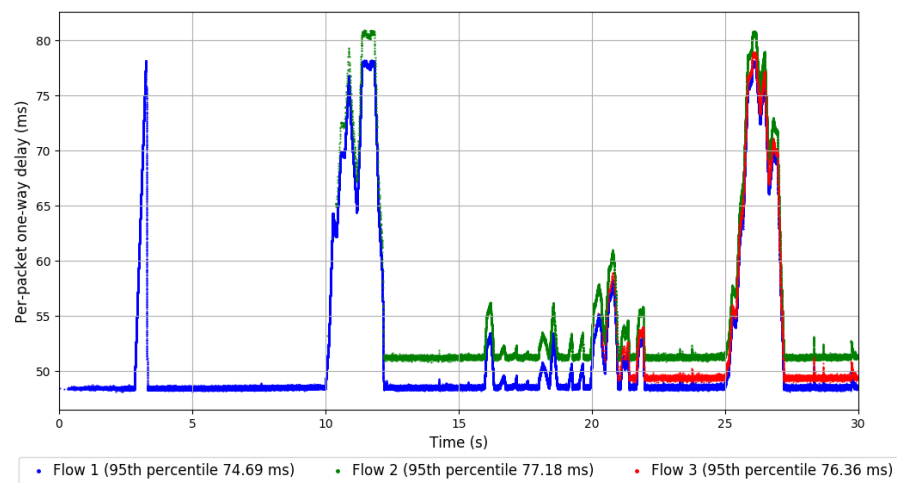
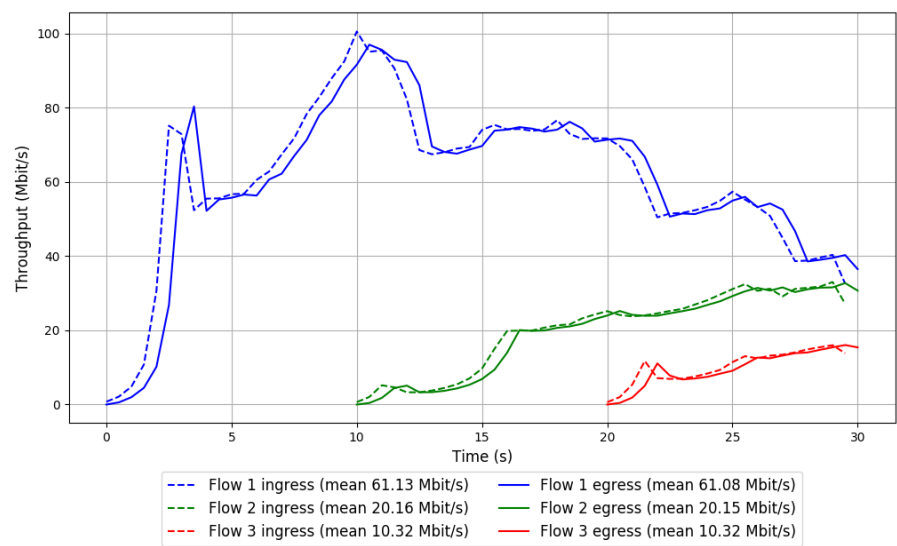
-- Flow 3:

Average throughput: 10.32 Mbit/s

95th percentile per-packet one-way delay: 76.359 ms

Loss rate: 0.05%

Run 5: Report of PCC-Vivace — Data Link

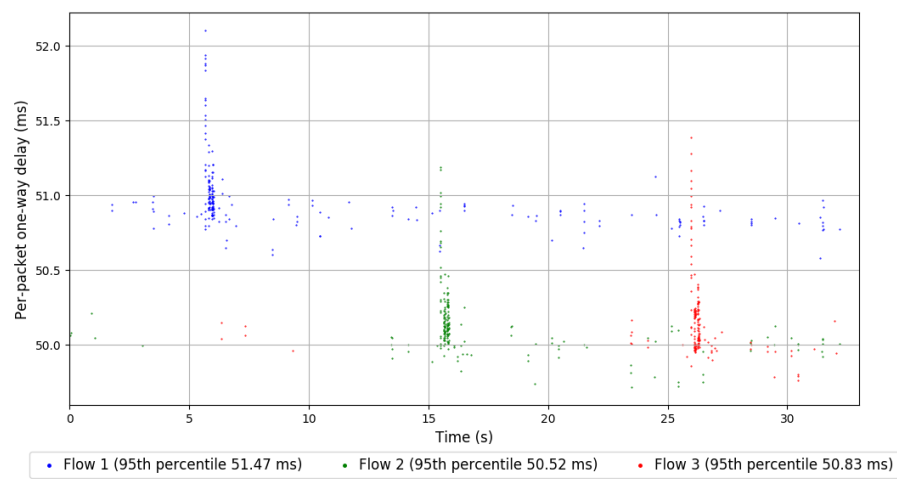
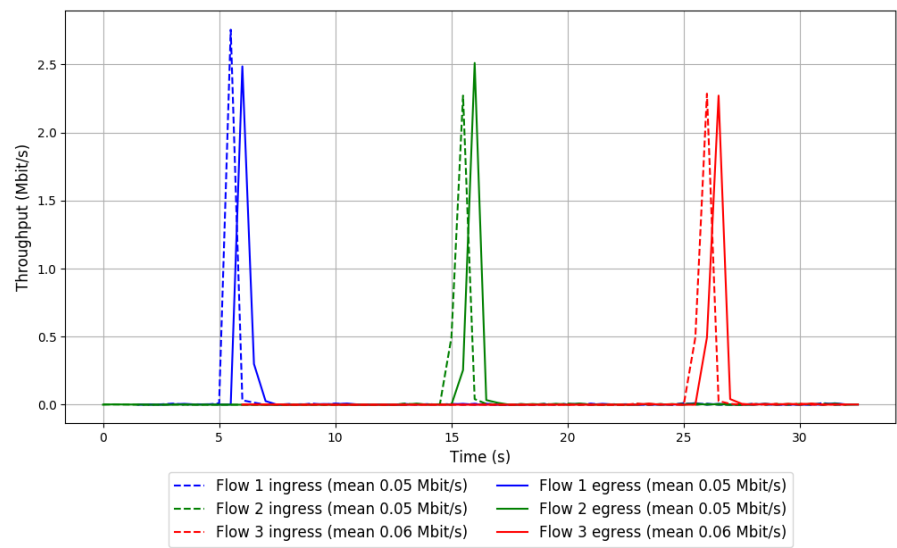


Run 1: Statistics of WebRTC media

Start at: 2019-11-24 07:36:25  
End at: 2019-11-24 07:36:55  
Local clock offset: 0.046 ms  
Remote clock offset: -6.622 ms

# Below is generated by plot.py at 2019-11-24 09:59:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.14 Mbit/s  
95th percentile per-packet one-way delay: 51.152 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 51.466 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 50.520 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 50.828 ms  
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



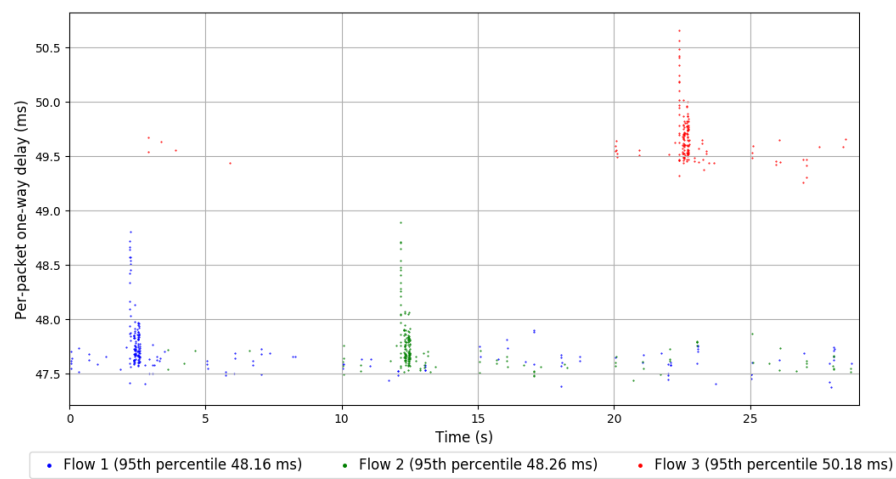
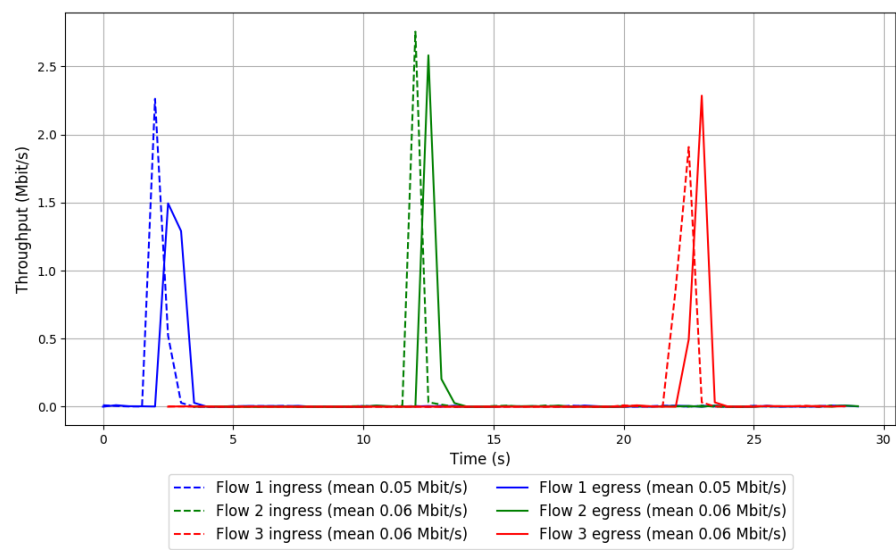


Run 2: Statistics of WebRTC media

Start at: 2019-11-24 08:06:21  
End at: 2019-11-24 08:06:51  
Local clock offset: 1.019 ms  
Remote clock offset: -7.204 ms

# Below is generated by plot.py at 2019-11-24 09:59:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 49.789 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 48.164 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 48.262 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 50.178 ms  
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-11-24 08:36:20

End at: 2019-11-24 08:36:50

Local clock offset: -1.436 ms

Remote clock offset: -8.79 ms

# Below is generated by plot.py at 2019-11-24 09:59:20

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 51.447 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 49.885 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 51.765 ms

Loss rate: 0.00%

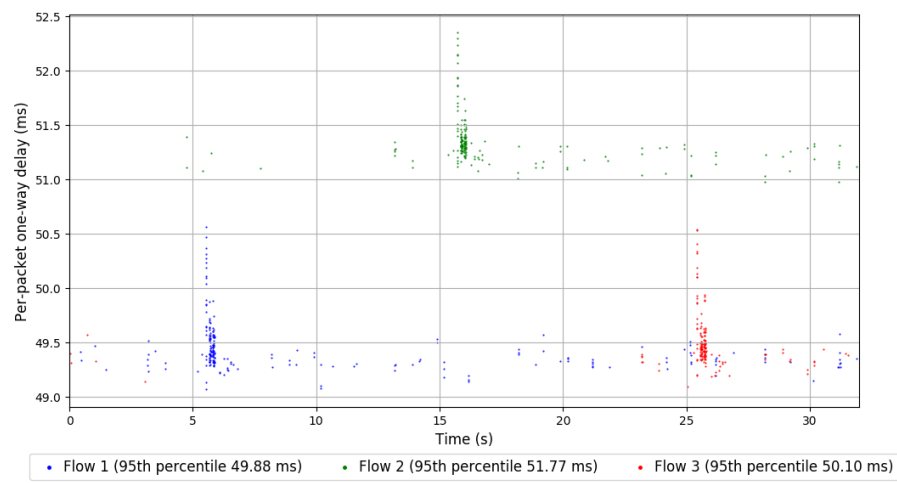
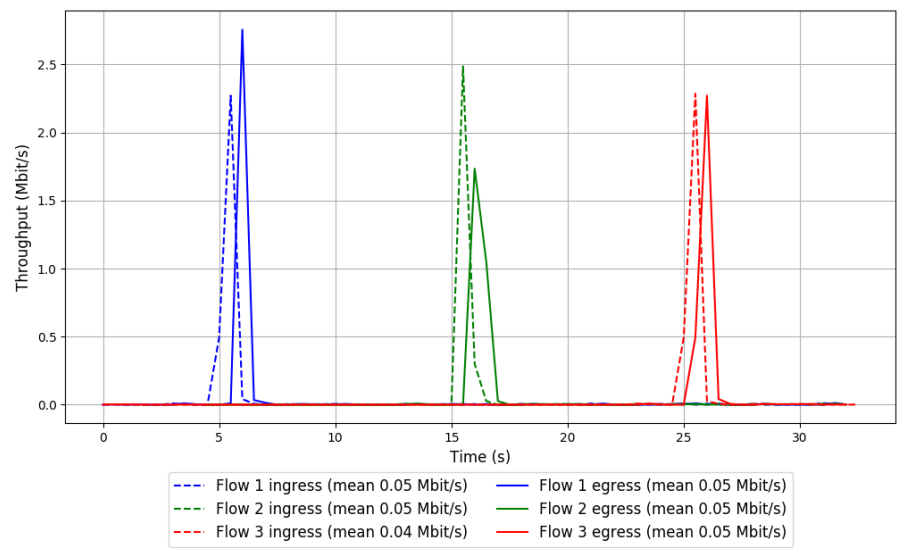
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 50.099 ms

Loss rate: 0.05%

Run 3: Report of WebRTC media — Data Link

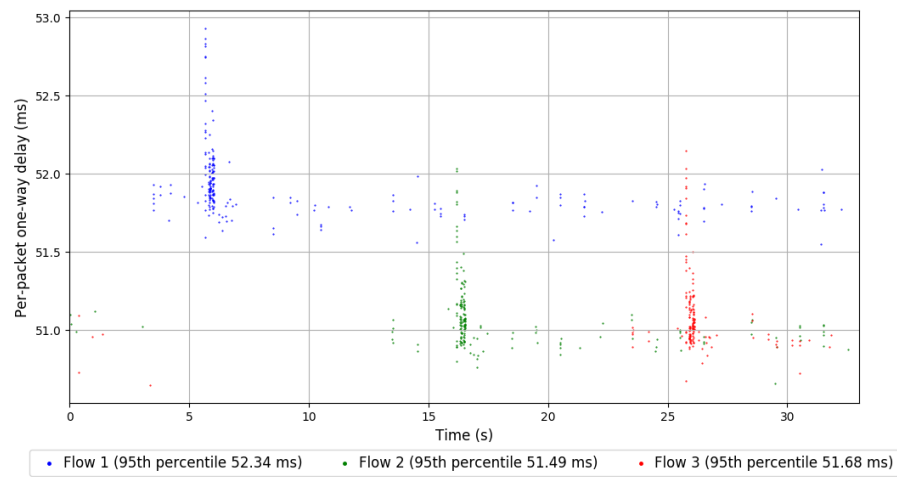
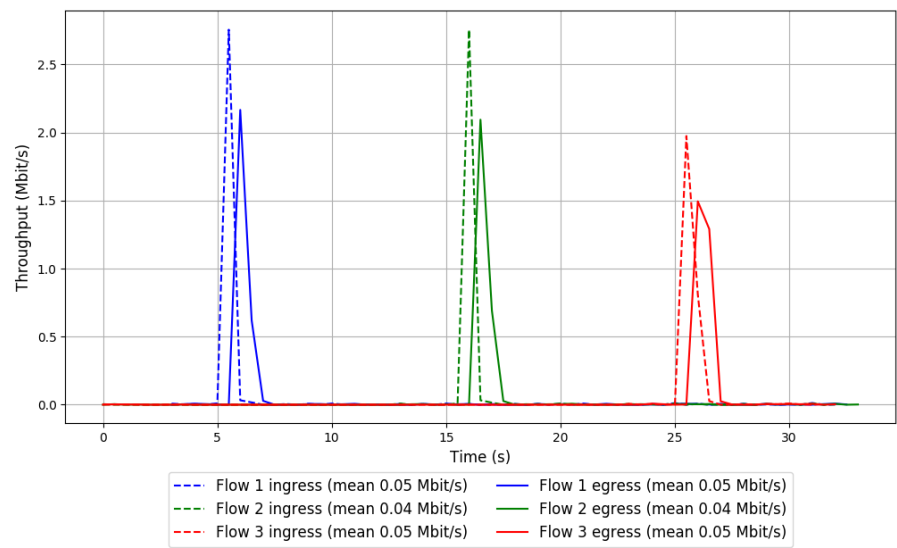


Run 4: Statistics of WebRTC media

Start at: 2019-11-24 09:06:18  
End at: 2019-11-24 09:06:48  
Local clock offset: -1.736 ms  
Remote clock offset: -7.856 ms

```
# Below is generated by plot.py at 2019-11-24 09:59:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 52.087 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 52.345 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 51.492 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 51.682 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-11-24 09:36:26  
End at: 2019-11-24 09:36:56  
Local clock offset: -0.074 ms  
Remote clock offset: -8.502 ms

```
# Below is generated by plot.py at 2019-11-24 09:59:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 51.474 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 51.573 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 51.616 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 49.004 ms
Loss rate: 0.05%
```

Run 5: Report of WebRTC media — Data Link

