

## Pantheon Report

Generated at 2019-08-28 02:16:03 (UTC).

Data path: GCE Iowa on *ens4 (remote)* → GCE London on *ens4 (local)*.

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 `time.google.com` and have been applied to correct the timestamps in logs.

### System info:

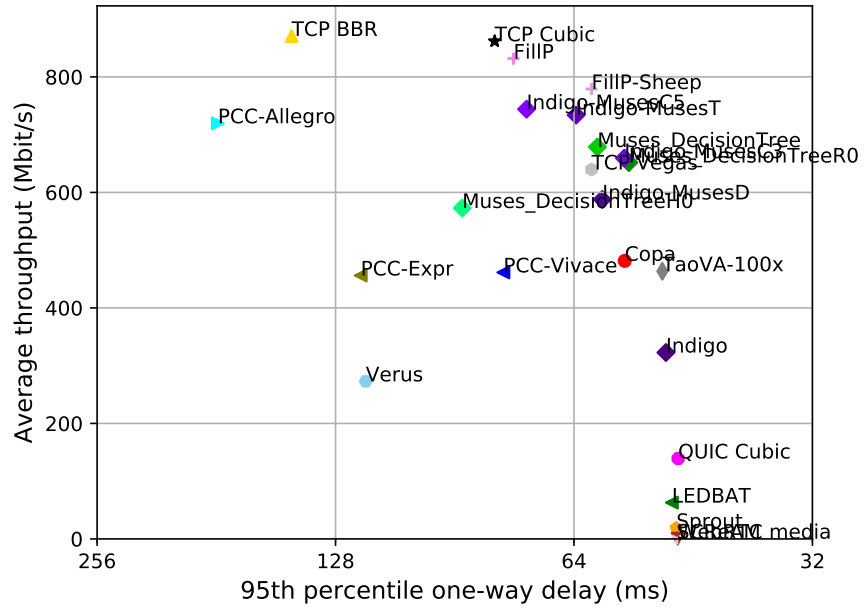
```
Linux 4.15.0-1036-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

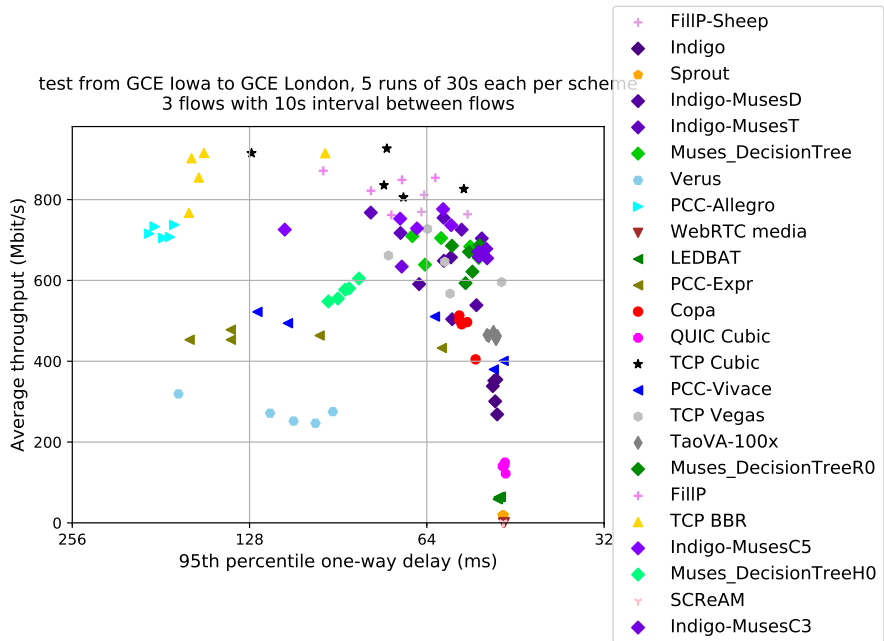
```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
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 GCE Iowa to GCE London, 5 runs of 30s each per scheme  
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from GCE Iowa to GCE London, 5 runs of 30s each per scheme  
 3 flows with 10s interval between flows



| scheme               | # runs | mean avg tput (Mbit/s) |        |        | mean 95th-%ile delay (ms) |        |        | mean loss rate (%) |        |        |
|----------------------|--------|------------------------|--------|--------|---------------------------|--------|--------|--------------------|--------|--------|
|                      |        | flow 1                 | flow 2 | flow 3 | flow 1                    | flow 2 | flow 3 | flow 1             | flow 2 | flow 3 |
| TCP BBR              | 5      | 450.19                 | 427.53 | 412.78 | 145.47                    | 135.99 | 120.50 | 0.53               | 0.74   | 1.48   |
| Copa                 | 5      | 257.43                 | 234.96 | 205.57 | 56.46                     | 60.82  | 51.83  | 0.27               | 0.46   | 0.95   |
| TCP Cubic            | 5      | 458.66                 | 413.40 | 388.21 | 69.32                     | 75.27  | 82.85  | 0.30               | 0.47   | 1.05   |
| FillP                | 5      | 518.52                 | 343.75 | 257.71 | 85.92                     | 50.13  | 50.37  | 0.66               | 0.38   | 1.04   |
| FillP-Sheep          | 5      | 498.14                 | 305.38 | 237.13 | 65.32                     | 51.09  | 48.92  | 0.18               | 0.40   | 1.19   |
| Indigo               | 5      | 175.18                 | 163.77 | 118.27 | 49.08                     | 48.74  | 48.79  | 0.34               | 0.51   | 1.07   |
| Indigo-MusesC3       | 5      | 389.01                 | 338.21 | 224.45 | 53.66                     | 60.72  | 48.77  | 0.21               | 0.51   | 2.01   |
| Indigo-MusesC5       | 5      | 433.98                 | 395.06 | 240.56 | 71.08                     | 78.93  | 72.02  | 0.24               | 0.46   | 1.53   |
| Indigo-MusesD        | 5      | 364.23                 | 262.79 | 227.16 | 61.59                     | 53.33  | 55.60  | 0.20               | 0.42   | 1.55   |
| Indigo-MusesT        | 5      | 452.38                 | 377.20 | 168.82 | 65.69                     | 59.04  | 50.09  | 0.23               | 0.47   | 1.64   |
| LEDBAT               | 5      | 40.16                  | 27.59  | 13.51  | 48.19                     | 47.82  | 47.91  | 0.46               | 0.94   | 1.92   |
| Muses_DecisionTree   | 5      | 389.90                 | 327.05 | 232.26 | 63.35                     | 53.08  | 51.44  | 0.20               | 0.34   | 1.36   |
| Muses_DecisionTreeH0 | 5      | 296.41                 | 297.26 | 253.31 | 94.12                     | 77.07  | 60.05  | 0.35               | 0.47   | 1.03   |
| Muses_DecisionTreeR0 | 5      | 387.92                 | 286.57 | 235.36 | 58.70                     | 50.35  | 49.19  | 0.22               | 0.28   | 1.09   |
| PCC-Allegro          | 5      | 395.85                 | 356.36 | 267.43 | 187.86                    | 121.89 | 71.80  | 5.41               | 3.25   | 1.29   |
| PCC-Expr             | 5      | 258.75                 | 226.57 | 143.33 | 137.71                    | 82.18  | 53.32  | 1.81               | 0.68   | 1.12   |
| QUIC Cubic           | 5      | 75.06                  | 65.42  | 61.36  | 47.05                     | 47.26  | 47.10  | 0.32               | 0.66   | 0.75   |
| SCReAM               | 5      | 0.22                   | 0.22   | 0.22   | 47.45                     | 47.20  | 47.32  | 0.28               | 0.53   | 0.95   |
| Sprout               | 5      | 9.57                   | 9.53   | 9.10   | 47.43                     | 47.29  | 47.62  | 0.32               | 0.54   | 0.96   |
| TaoVA-100x           | 5      | 236.22                 | 228.24 | 228.78 | 49.20                     | 49.42  | 50.59  | 0.31               | 0.50   | 0.99   |
| TCP Vegas            | 5      | 321.57                 | 329.13 | 300.60 | 57.84                     | 57.56  | 52.98  | 0.28               | 0.39   | 0.88   |
| Verus                | 5      | 156.59                 | 123.91 | 103.96 | 107.11                    | 98.60  | 88.97  | 0.44               | 0.87   | 0.60   |
| PCC-Vivace           | 5      | 281.04                 | 210.22 | 124.75 | 88.70                     | 49.57  | 48.07  | 0.35               | 0.47   | 1.46   |
| WebRTC media         | 5      | 0.05                   | 0.32   | 0.05   | 47.22                     | 46.98  | 47.38  | 0.00               | 0.11   | 0.01   |

Run 1: Statistics of TCP BBR

Start at: 2019-08-27 20:41:03

End at: 2019-08-27 20:41:33

Local clock offset: -0.05 ms

Remote clock offset: -0.01 ms

# Below is generated by plot.py at 2019-08-28 00:07:28

# Datalink statistics

-- Total of 3 flows:

Average throughput: 854.52 Mbit/s

95th percentile per-packet one-way delay: 156.087 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 442.65 Mbit/s

95th percentile per-packet one-way delay: 139.331 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 426.00 Mbit/s

95th percentile per-packet one-way delay: 178.458 ms

Loss rate: 1.03%

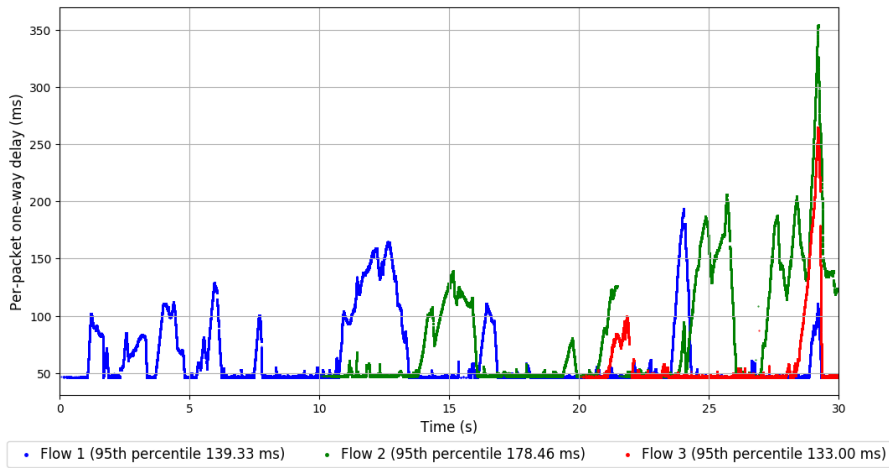
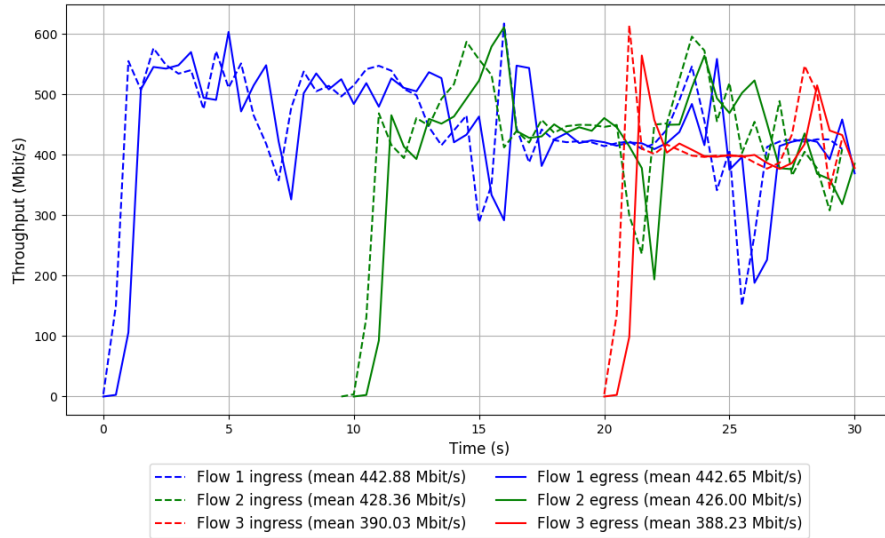
-- Flow 3:

Average throughput: 388.23 Mbit/s

95th percentile per-packet one-way delay: 132.995 ms

Loss rate: 1.40%

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



Run 2: Statistics of TCP BBR

Start at: 2019-08-27 21:20:13  
End at: 2019-08-27 21:20:43  
Local clock offset: 0.297 ms  
Remote clock offset: -0.055 ms

# Below is generated by plot.py at 2019-08-28 00:08:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 914.95 Mbit/s  
95th percentile per-packet one-way delay: 95.220 ms  
Loss rate: 0.46%

-- Flow 1:

Average throughput: 474.01 Mbit/s  
95th percentile per-packet one-way delay: 89.256 ms  
Loss rate: 0.27%

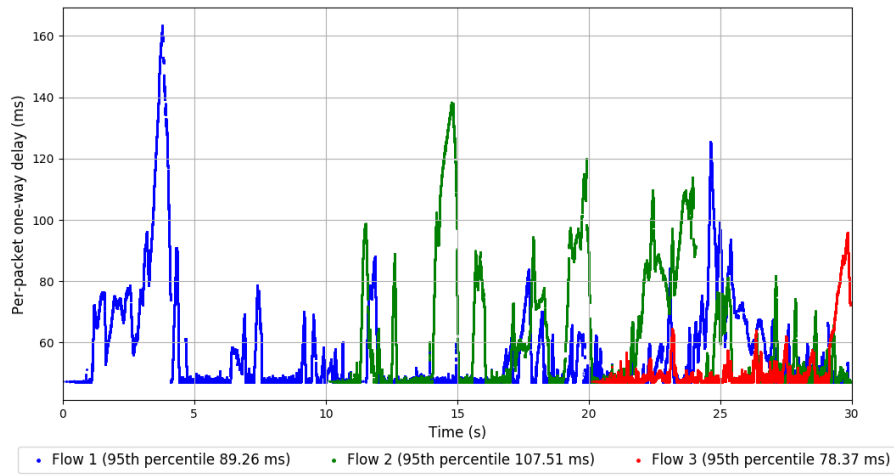
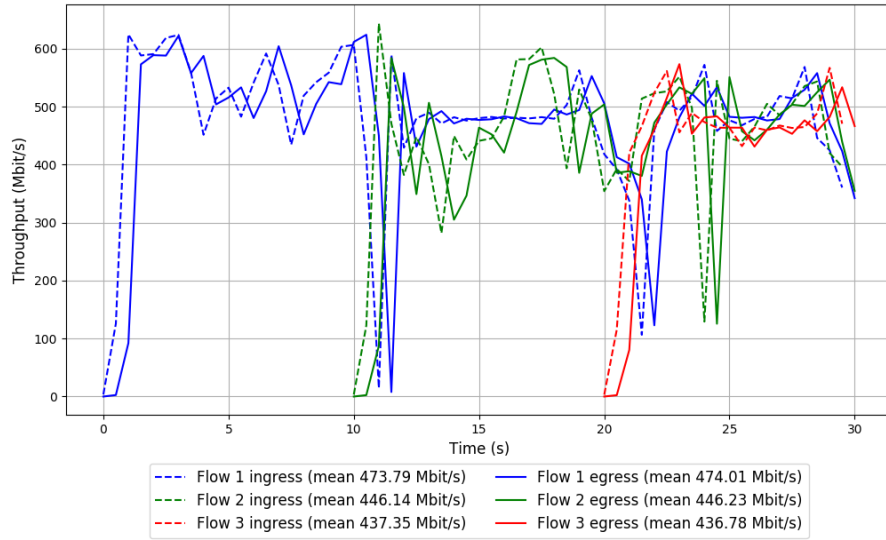
-- Flow 2:

Average throughput: 446.23 Mbit/s  
95th percentile per-packet one-way delay: 107.512 ms  
Loss rate: 0.46%

-- Flow 3:

Average throughput: 436.78 Mbit/s  
95th percentile per-packet one-way delay: 78.374 ms  
Loss rate: 1.09%

Run 2: Report of TCP BBR — Data Link





Run 3: Statistics of TCP BBR

Start at: 2019-08-27 21:59:26  
End at: 2019-08-27 21:59:56  
Local clock offset: -0.1 ms  
Remote clock offset: -0.005 ms

# Below is generated by plot.py at 2019-08-28 00:08:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 902.29 Mbit/s  
95th percentile per-packet one-way delay: 160.610 ms  
Loss rate: 0.82%

-- Flow 1:

Average throughput: 473.29 Mbit/s  
95th percentile per-packet one-way delay: 167.958 ms  
Loss rate: 0.80%

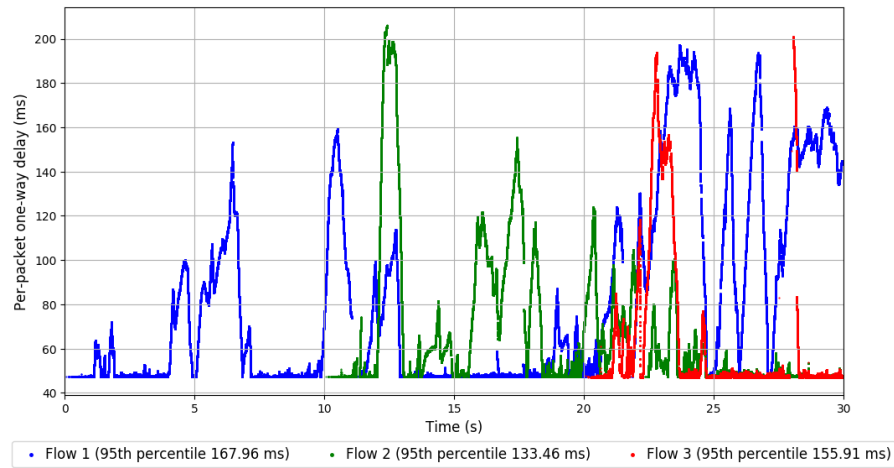
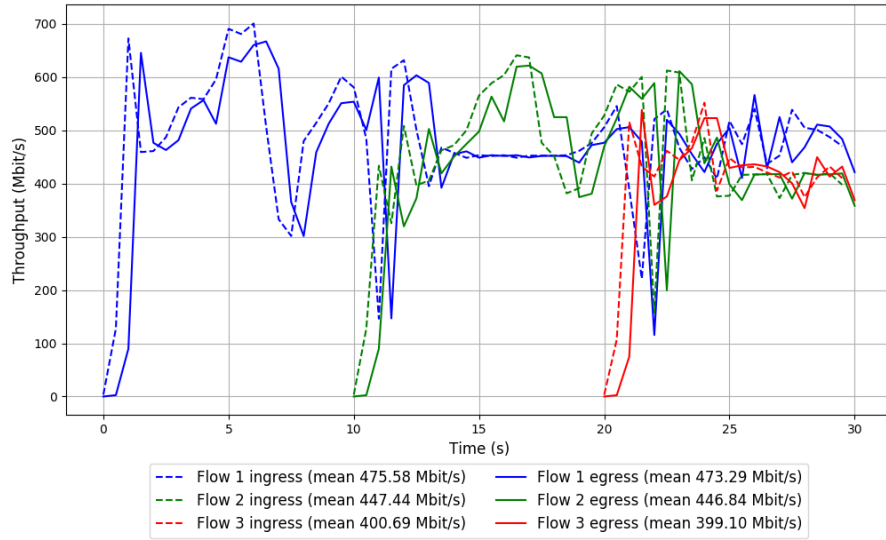
-- Flow 2:

Average throughput: 446.84 Mbit/s  
95th percentile per-packet one-way delay: 133.463 ms  
Loss rate: 0.61%

-- Flow 3:

Average throughput: 399.10 Mbit/s  
95th percentile per-packet one-way delay: 155.911 ms  
Loss rate: 1.35%

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



Run 4: Statistics of TCP BBR

Start at: 2019-08-27 22:38:40  
End at: 2019-08-27 22:39:10  
Local clock offset: -0.135 ms  
Remote clock offset: -0.104 ms

# Below is generated by plot.py at 2019-08-28 00:08:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 767.10 Mbit/s  
95th percentile per-packet one-way delay: 162.238 ms  
Loss rate: 0.70%

-- Flow 1:

Average throughput: 402.82 Mbit/s  
95th percentile per-packet one-way delay: 191.015 ms  
Loss rate: 0.61%

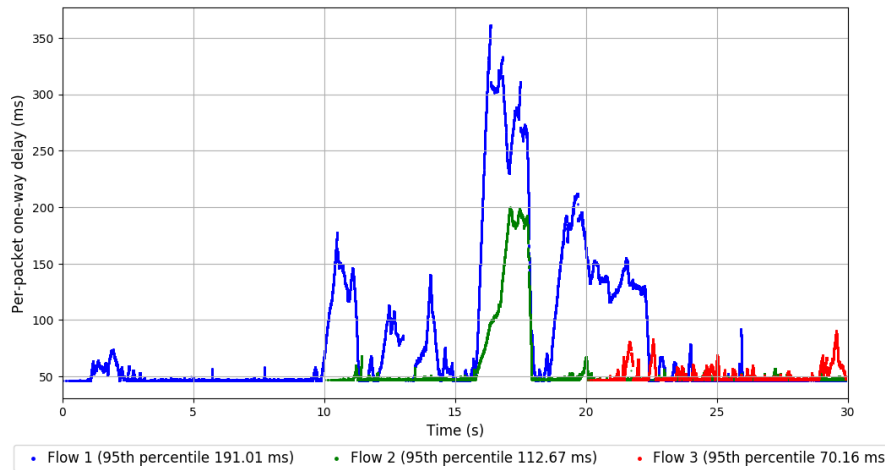
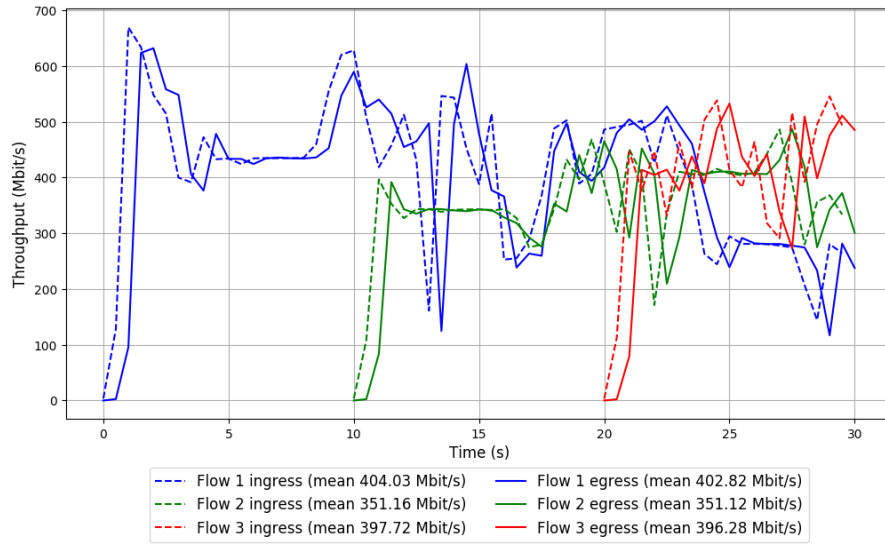
-- Flow 2:

Average throughput: 351.12 Mbit/s  
95th percentile per-packet one-way delay: 112.666 ms  
Loss rate: 0.49%

-- Flow 3:

Average throughput: 396.28 Mbit/s  
95th percentile per-packet one-way delay: 70.159 ms  
Loss rate: 1.32%

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

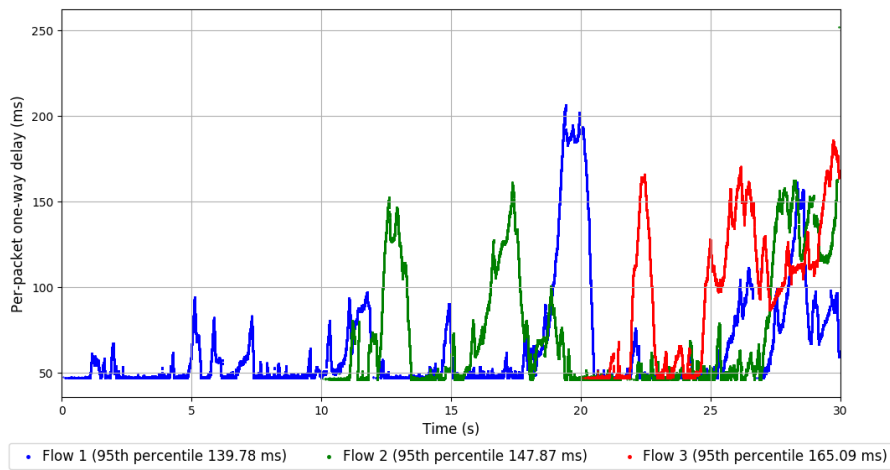
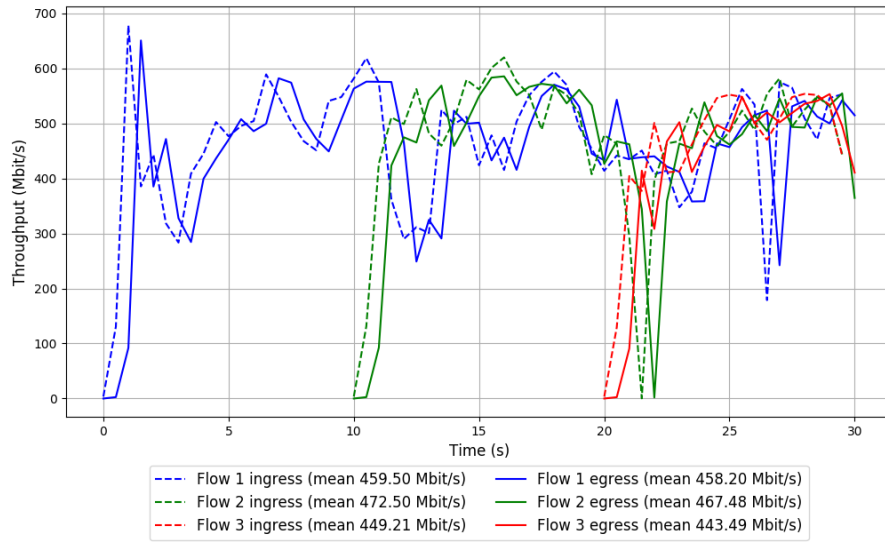


Run 5: Statistics of TCP BBR

Start at: 2019-08-27 23:17:55  
End at: 2019-08-27 23:18:25  
Local clock offset: -0.015 ms  
Remote clock offset: -0.078 ms

```
# Below is generated by plot.py at 2019-08-28 00:08:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 915.44 Mbit/s
95th percentile per-packet one-way delay: 152.961 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 458.20 Mbit/s
95th percentile per-packet one-way delay: 139.776 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 467.48 Mbit/s
95th percentile per-packet one-way delay: 147.874 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 443.49 Mbit/s
95th percentile per-packet one-way delay: 165.086 ms
Loss rate: 2.22%
```

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



Run 1: Statistics of Copa

Start at: 2019-08-27 20:26:34  
End at: 2019-08-27 20:27:04  
Local clock offset: -0.481 ms  
Remote clock offset: -0.004 ms

# Below is generated by plot.py at 2019-08-28 00:08:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 404.64 Mbit/s  
95th percentile per-packet one-way delay: 52.897 ms  
Loss rate: 0.40%

-- Flow 1:

Average throughput: 222.40 Mbit/s  
95th percentile per-packet one-way delay: 52.878 ms  
Loss rate: 0.27%

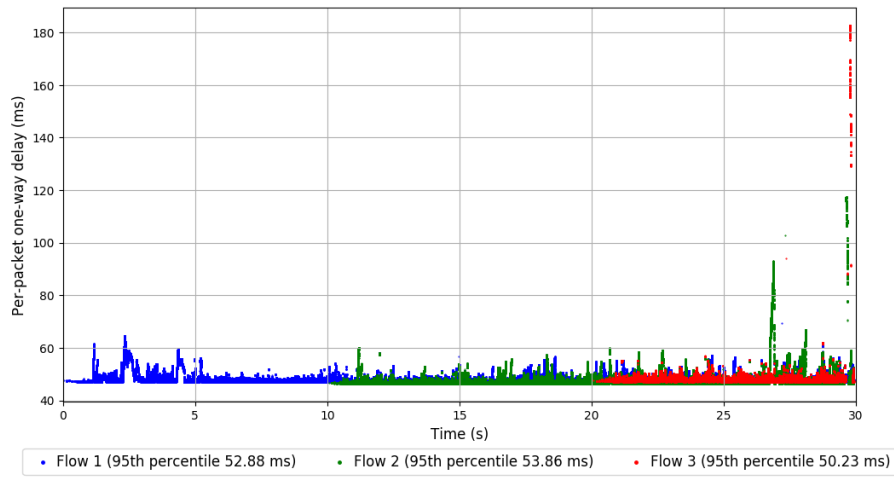
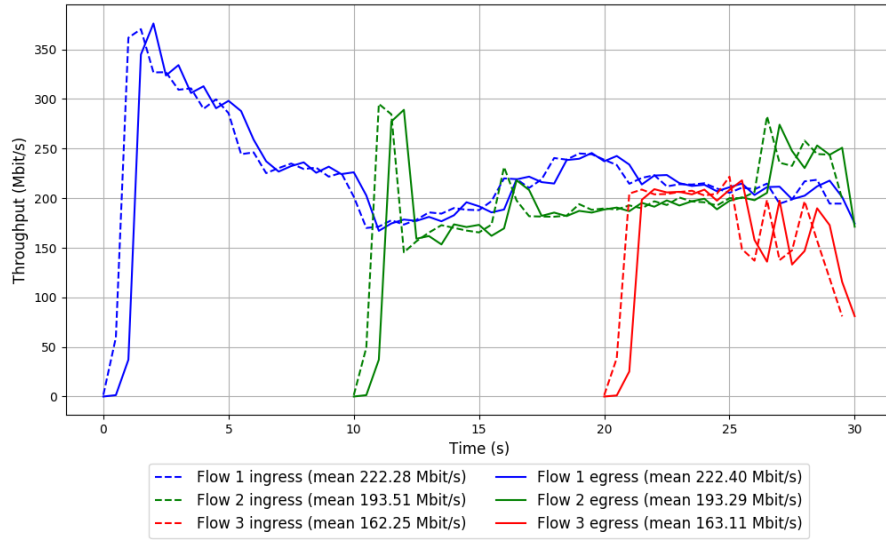
-- Flow 2:

Average throughput: 193.29 Mbit/s  
95th percentile per-packet one-way delay: 53.856 ms  
Loss rate: 0.60%

-- Flow 3:

Average throughput: 163.11 Mbit/s  
95th percentile per-packet one-way delay: 50.226 ms  
Loss rate: 0.44%

### Run 1: Report of Copa — Data Link





Run 2: Statistics of Copa

Start at: 2019-08-27 21:05:28

End at: 2019-08-27 21:05:58

Local clock offset: 0.204 ms

Remote clock offset: 0.009 ms

# Below is generated by plot.py at 2019-08-28 00:09:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 513.14 Mbit/s

95th percentile per-packet one-way delay: 56.363 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 270.97 Mbit/s

95th percentile per-packet one-way delay: 56.953 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 249.80 Mbit/s

95th percentile per-packet one-way delay: 57.971 ms

Loss rate: 0.41%

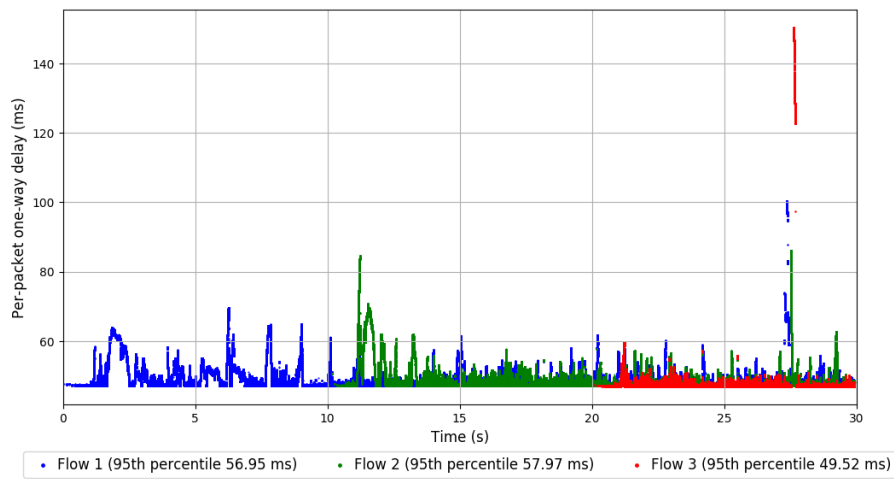
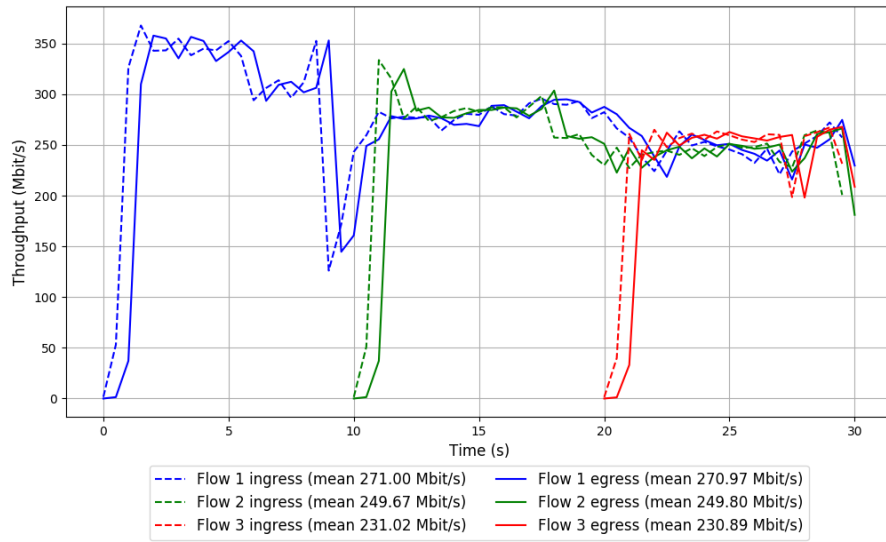
-- Flow 3:

Average throughput: 230.89 Mbit/s

95th percentile per-packet one-way delay: 49.522 ms

Loss rate: 1.01%

## Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2019-08-27 21:44:46  
End at: 2019-08-27 21:45:16  
Local clock offset: 0.02 ms  
Remote clock offset: -0.002 ms

# Below is generated by plot.py at 2019-08-28 00:09:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 501.54 Mbit/s  
95th percentile per-packet one-way delay: 56.355 ms  
Loss rate: 0.48%

-- Flow 1:

Average throughput: 279.51 Mbit/s  
95th percentile per-packet one-way delay: 64.201 ms  
Loss rate: 0.30%

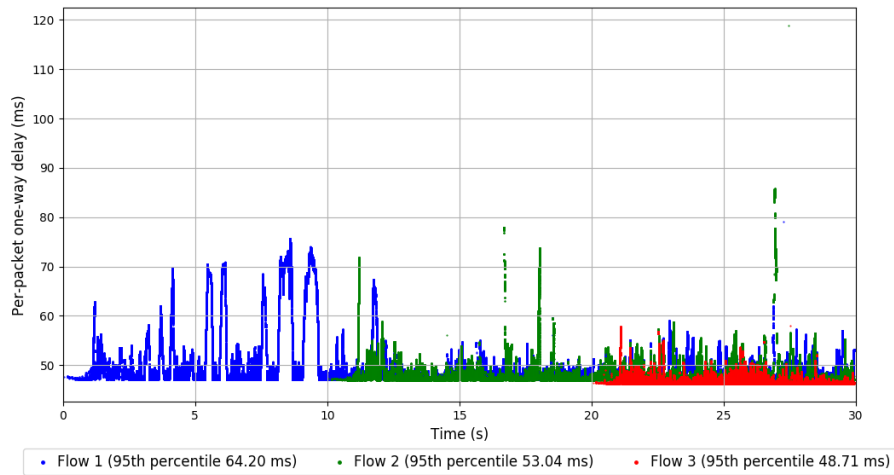
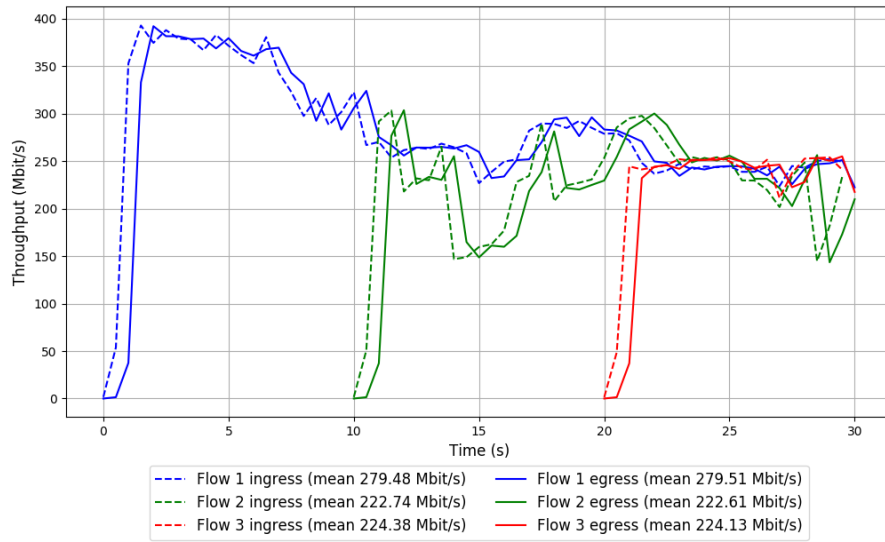
-- Flow 2:

Average throughput: 222.61 Mbit/s  
95th percentile per-packet one-way delay: 53.044 ms  
Loss rate: 0.53%

-- Flow 3:

Average throughput: 224.13 Mbit/s  
95th percentile per-packet one-way delay: 48.707 ms  
Loss rate: 1.05%

### Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2019-08-27 22:23:56  
End at: 2019-08-27 22:24:26  
Local clock offset: -0.105 ms  
Remote clock offset: -0.052 ms

# Below is generated by plot.py at 2019-08-28 00:19:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 496.69 Mbit/s  
95th percentile per-packet one-way delay: 54.667 ms  
Loss rate: 0.40%

-- Flow 1:

Average throughput: 270.63 Mbit/s  
95th percentile per-packet one-way delay: 52.654 ms  
Loss rate: 0.24%

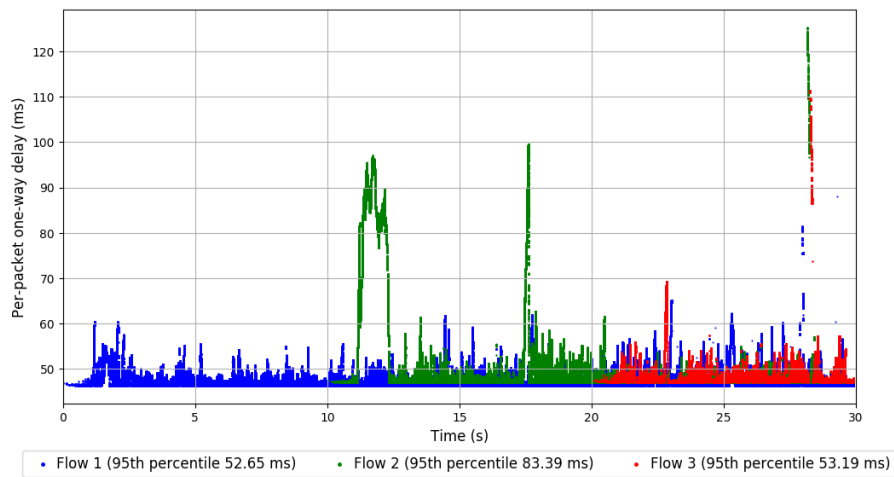
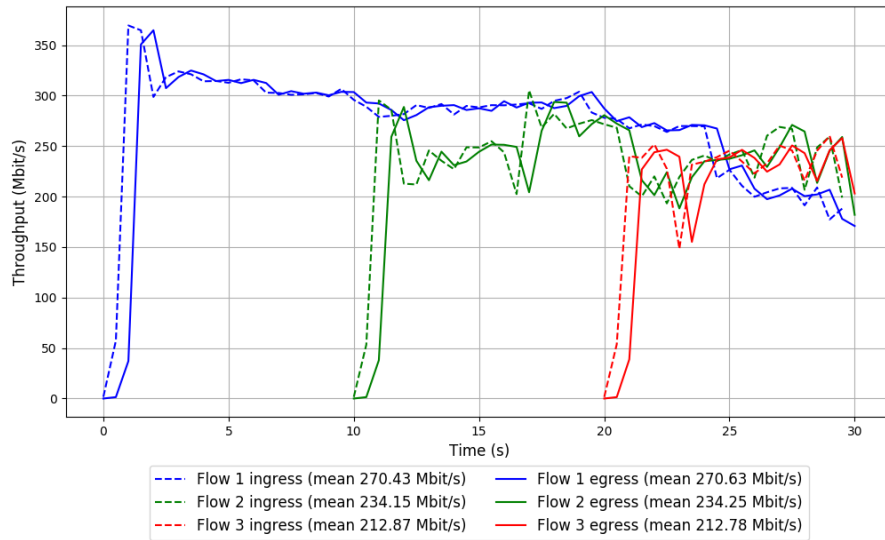
-- Flow 2:

Average throughput: 234.25 Mbit/s  
95th percentile per-packet one-way delay: 83.390 ms  
Loss rate: 0.43%

-- Flow 3:

Average throughput: 212.78 Mbit/s  
95th percentile per-packet one-way delay: 53.190 ms  
Loss rate: 0.99%

### Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-08-27 23:03:04  
End at: 2019-08-27 23:03:34  
Local clock offset: 0.058 ms  
Remote clock offset: -0.079 ms

# Below is generated by plot.py at 2019-08-28 00:20:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 491.48 Mbit/s  
95th percentile per-packet one-way delay: 55.845 ms  
Loss rate: 0.39%

-- Flow 1:

Average throughput: 243.63 Mbit/s  
95th percentile per-packet one-way delay: 55.639 ms  
Loss rate: 0.21%

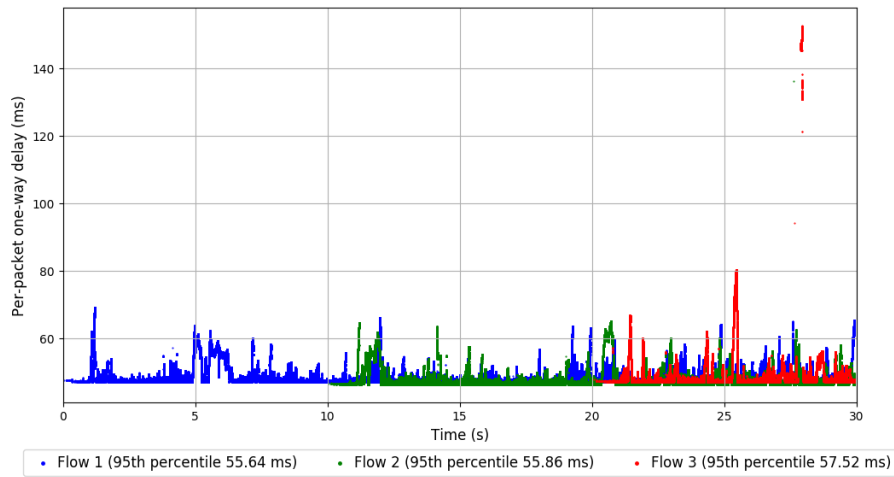
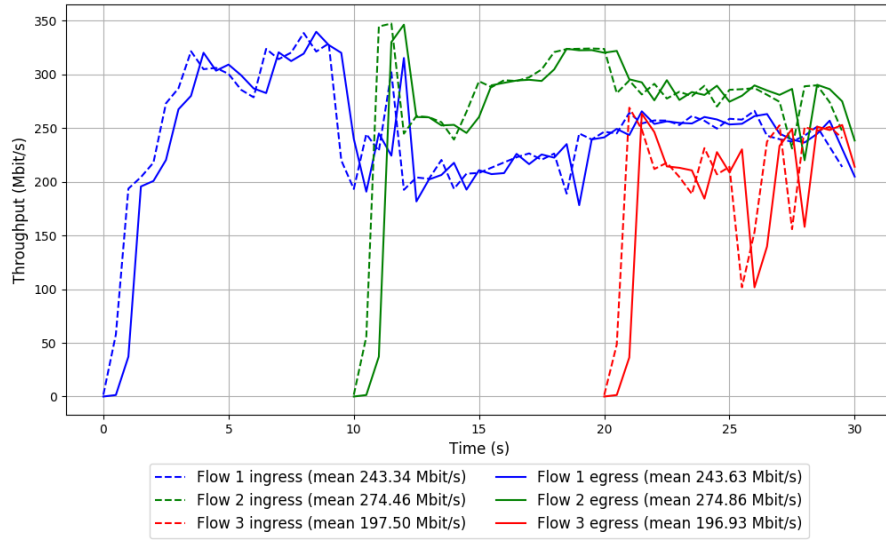
-- Flow 2:

Average throughput: 274.86 Mbit/s  
95th percentile per-packet one-way delay: 55.857 ms  
Loss rate: 0.33%

-- Flow 3:

Average throughput: 196.93 Mbit/s  
95th percentile per-packet one-way delay: 57.515 ms  
Loss rate: 1.24%

### Run 5: Report of Copa — Data Link





Run 1: Statistics of TCP Cubic

Start at: 2019-08-27 20:52:23

End at: 2019-08-27 20:52:53

Local clock offset: 0.452 ms

Remote clock offset: 0.007 ms

# Below is generated by plot.py at 2019-08-28 00:20:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 826.31 Mbit/s

95th percentile per-packet one-way delay: 55.368 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 406.04 Mbit/s

95th percentile per-packet one-way delay: 51.527 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 422.75 Mbit/s

95th percentile per-packet one-way delay: 54.220 ms

Loss rate: 0.51%

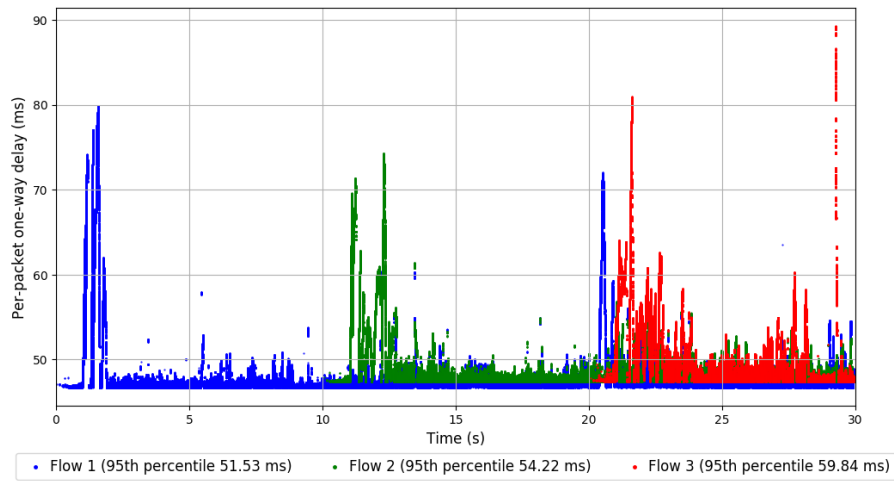
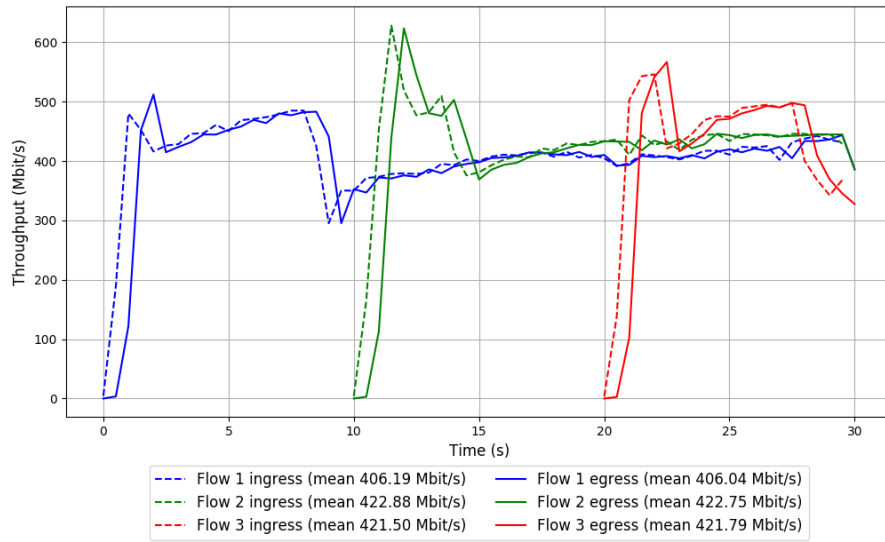
-- Flow 3:

Average throughput: 421.79 Mbit/s

95th percentile per-packet one-way delay: 59.844 ms

Loss rate: 0.88%

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

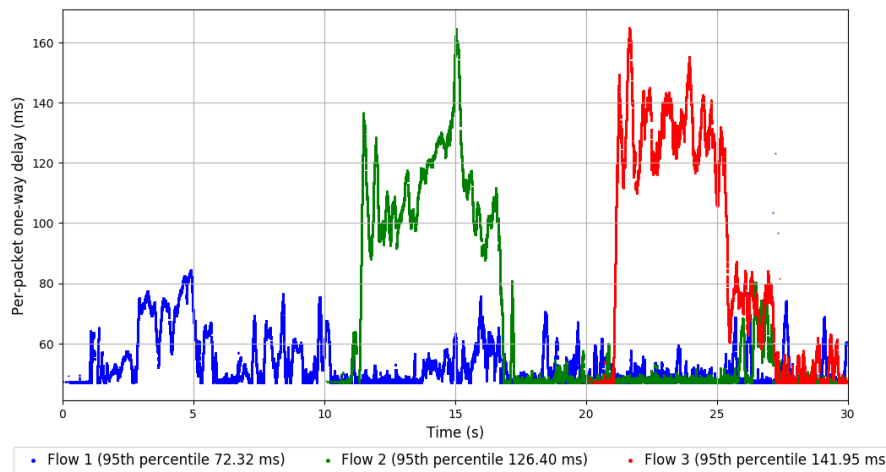
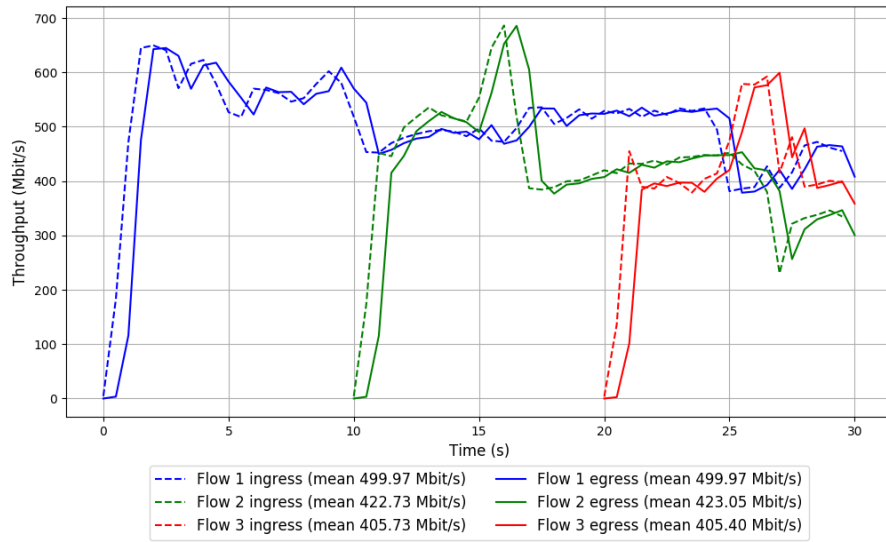


Run 2: Statistics of TCP Cubic

Start at: 2019-08-27 21:31:34  
End at: 2019-08-27 21:32:04  
Local clock offset: 0.382 ms  
Remote clock offset: -0.072 ms

```
# Below is generated by plot.py at 2019-08-28 00:22:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 914.99 Mbit/s
95th percentile per-packet one-way delay: 126.990 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 499.97 Mbit/s
95th percentile per-packet one-way delay: 72.319 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 423.05 Mbit/s
95th percentile per-packet one-way delay: 126.401 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 405.40 Mbit/s
95th percentile per-packet one-way delay: 141.954 ms
Loss rate: 1.02%
```

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



Run 3: Statistics of TCP Cubic

Start at: 2019-08-27 22:10:48

End at: 2019-08-27 22:11:18

Local clock offset: -0.15 ms

Remote clock offset: -0.0 ms

# Below is generated by plot.py at 2019-08-28 00:22:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 926.35 Mbit/s

95th percentile per-packet one-way delay: 74.836 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 483.49 Mbit/s

95th percentile per-packet one-way delay: 76.433 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 470.43 Mbit/s

95th percentile per-packet one-way delay: 70.795 ms

Loss rate: 0.53%

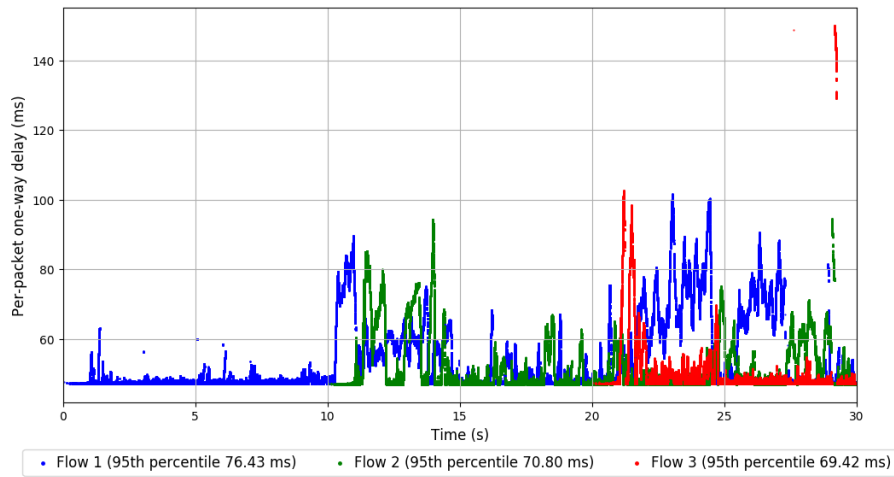
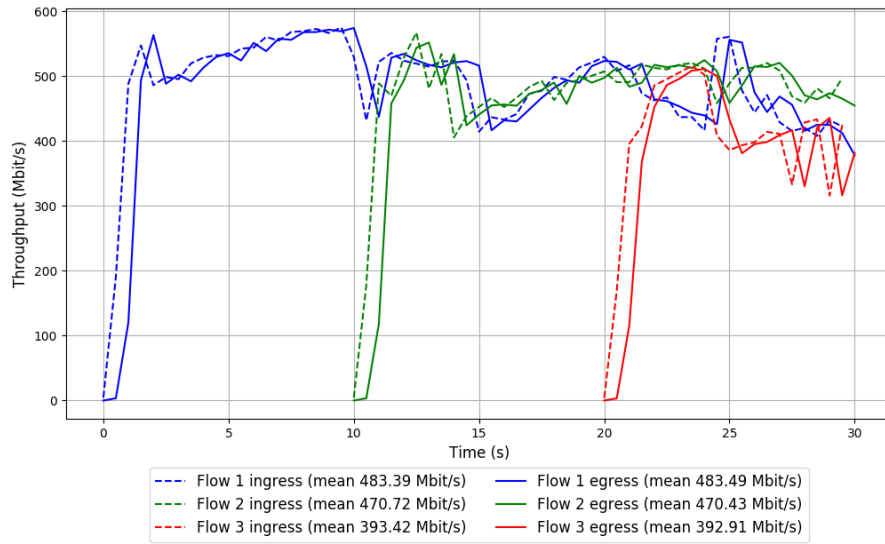
-- Flow 3:

Average throughput: 392.91 Mbit/s

95th percentile per-packet one-way delay: 69.419 ms

Loss rate: 1.07%

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



Run 4: Statistics of TCP Cubic

Start at: 2019-08-27 22:49:51  
End at: 2019-08-27 22:50:21  
Local clock offset: -0.006 ms  
Remote clock offset: -0.095 ms

# Below is generated by plot.py at 2019-08-28 00:22:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 805.61 Mbit/s  
95th percentile per-packet one-way delay: 70.119 ms  
Loss rate: 0.48%

-- Flow 1:

Average throughput: 412.42 Mbit/s  
95th percentile per-packet one-way delay: 68.386 ms  
Loss rate: 0.29%

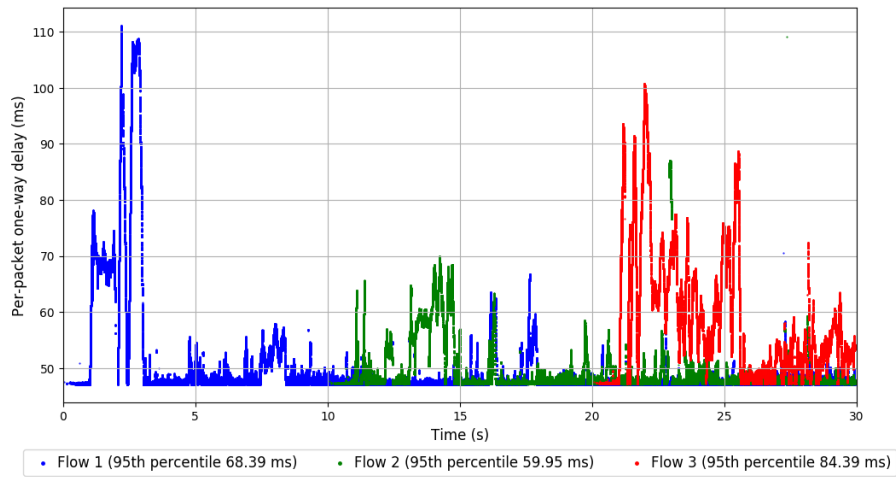
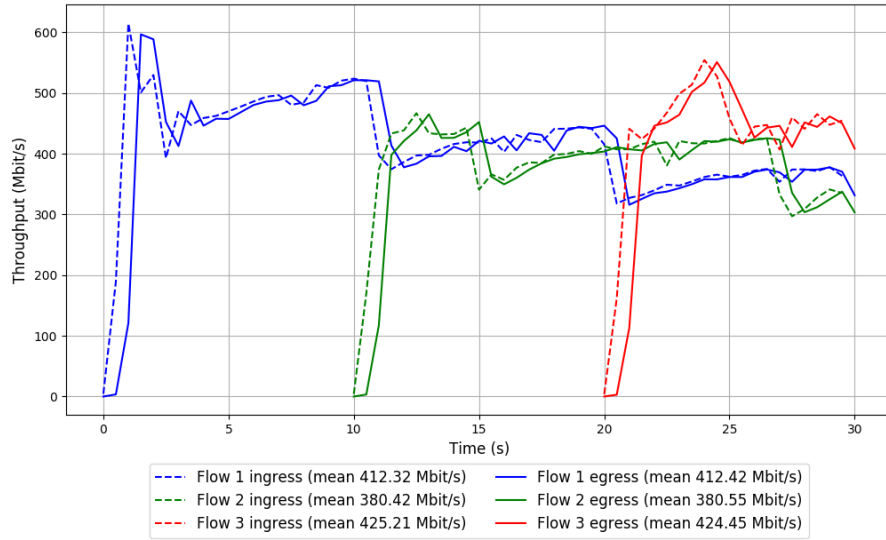
-- Flow 2:

Average throughput: 380.55 Mbit/s  
95th percentile per-packet one-way delay: 59.951 ms  
Loss rate: 0.44%

-- Flow 3:

Average throughput: 424.45 Mbit/s  
95th percentile per-packet one-way delay: 84.388 ms  
Loss rate: 1.11%

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





Run 5: Statistics of TCP Cubic

Start at: 2019-08-27 23:29:16  
End at: 2019-08-27 23:29:46  
Local clock offset: -0.091 ms  
Remote clock offset: -0.091 ms

# Below is generated by plot.py at 2019-08-28 00:22:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 835.60 Mbit/s  
95th percentile per-packet one-way delay: 75.678 ms  
Loss rate: 0.43%

-- Flow 1:

Average throughput: 491.39 Mbit/s  
95th percentile per-packet one-way delay: 77.922 ms  
Loss rate: 0.27%

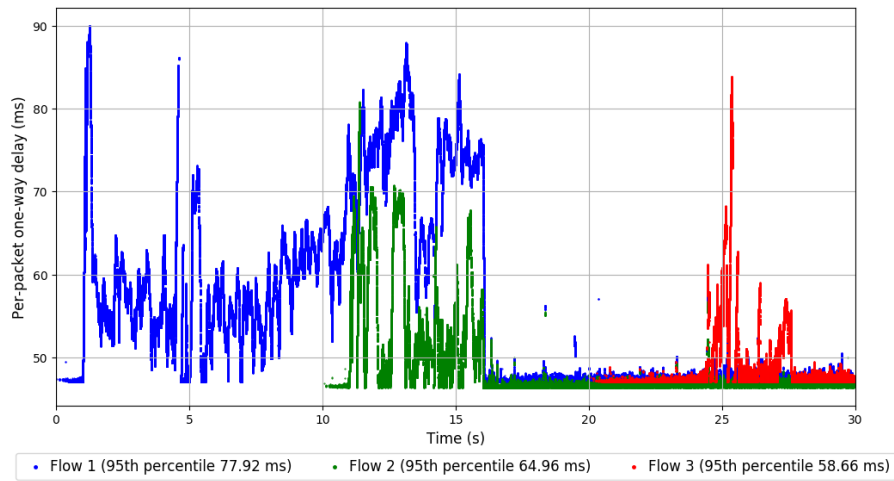
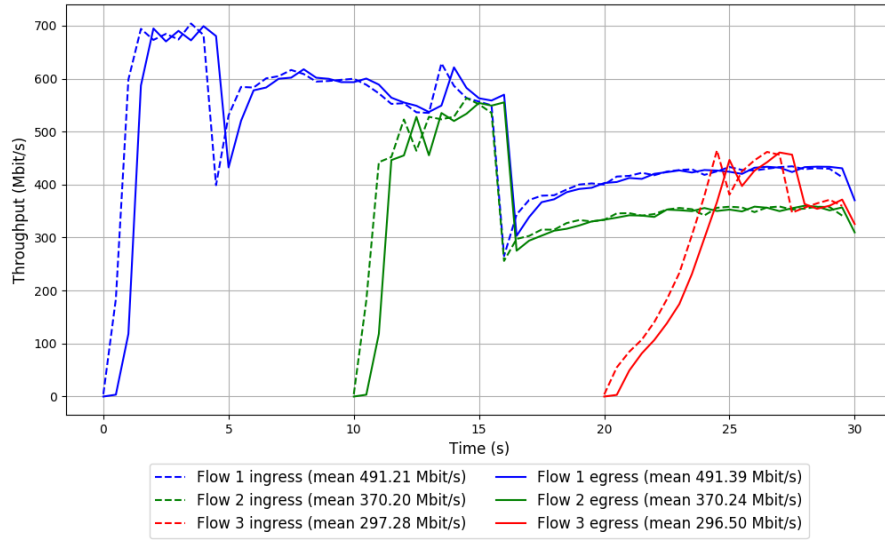
-- Flow 2:

Average throughput: 370.24 Mbit/s  
95th percentile per-packet one-way delay: 64.960 ms  
Loss rate: 0.45%

-- Flow 3:

Average throughput: 296.50 Mbit/s  
95th percentile per-packet one-way delay: 58.660 ms  
Loss rate: 1.19%

Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2019-08-27 20:54:13  
End at: 2019-08-27 20:54:43  
Local clock offset: 0.125 ms  
Remote clock offset: -0.032 ms

# Below is generated by plot.py at 2019-08-28 00:25:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 871.35 Mbit/s  
95th percentile per-packet one-way delay: 95.936 ms  
Loss rate: 0.77%

-- Flow 1:

Average throughput: 557.46 Mbit/s  
95th percentile per-packet one-way delay: 104.571 ms  
Loss rate: 0.89%

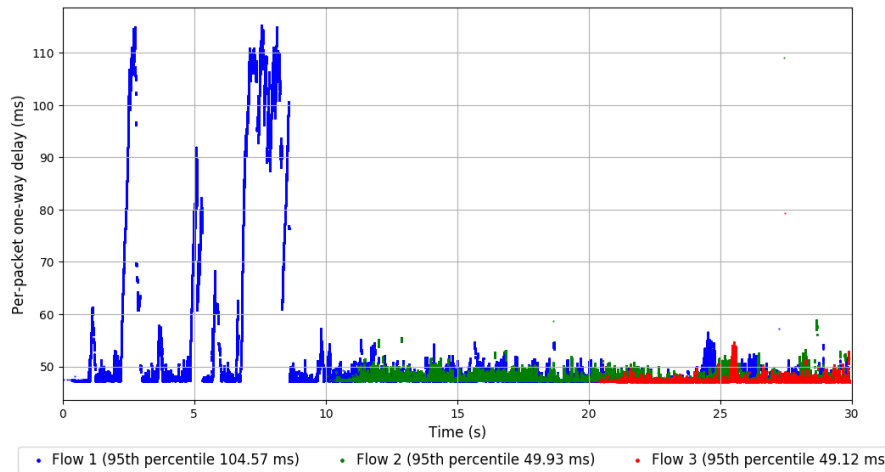
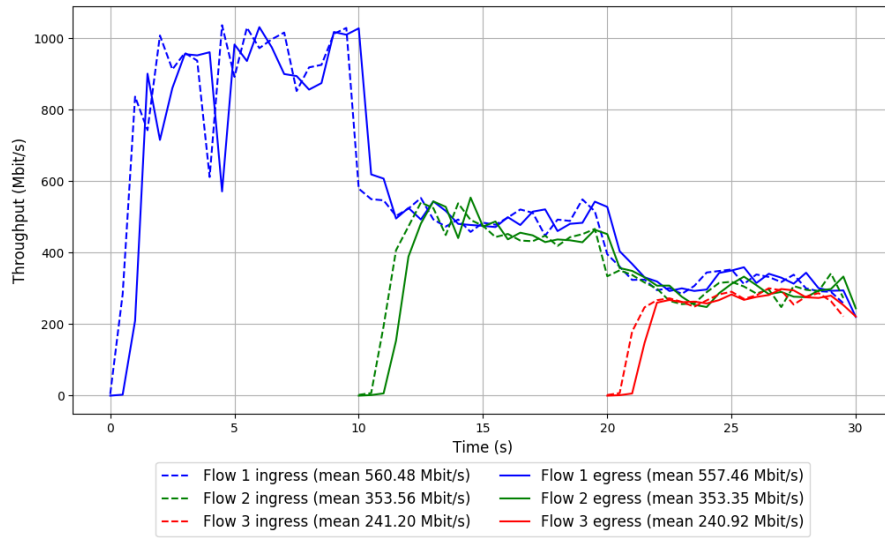
-- Flow 2:

Average throughput: 353.35 Mbit/s  
95th percentile per-packet one-way delay: 49.927 ms  
Loss rate: 0.46%

-- Flow 3:

Average throughput: 240.92 Mbit/s  
95th percentile per-packet one-way delay: 49.122 ms  
Loss rate: 0.85%

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



Run 2: Statistics of FillP

Start at: 2019-08-27 21:33:27  
End at: 2019-08-27 21:33:57  
Local clock offset: 0.384 ms  
Remote clock offset: -0.113 ms

# Below is generated by plot.py at 2019-08-28 00:35:30

# Datalink statistics

-- Total of 3 flows:

Average throughput: 854.07 Mbit/s  
95th percentile per-packet one-way delay: 61.909 ms  
Loss rate: 0.37%

-- Flow 1:

Average throughput: 550.58 Mbit/s  
95th percentile per-packet one-way delay: 68.298 ms  
Loss rate: 0.24%

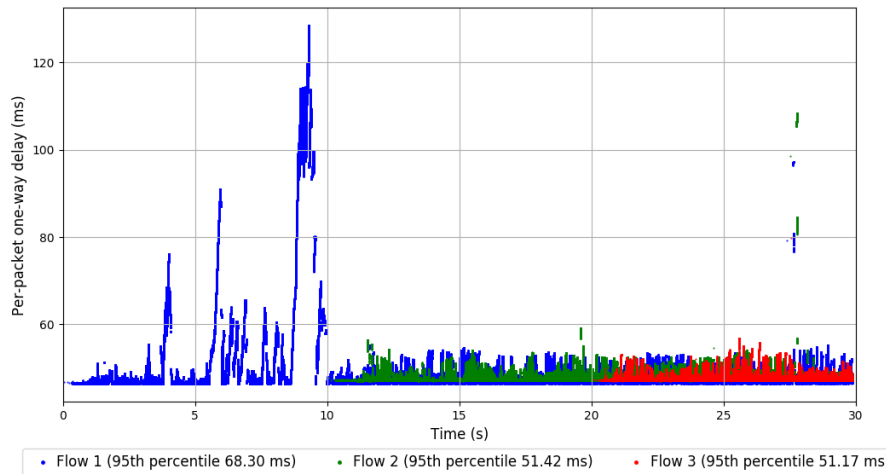
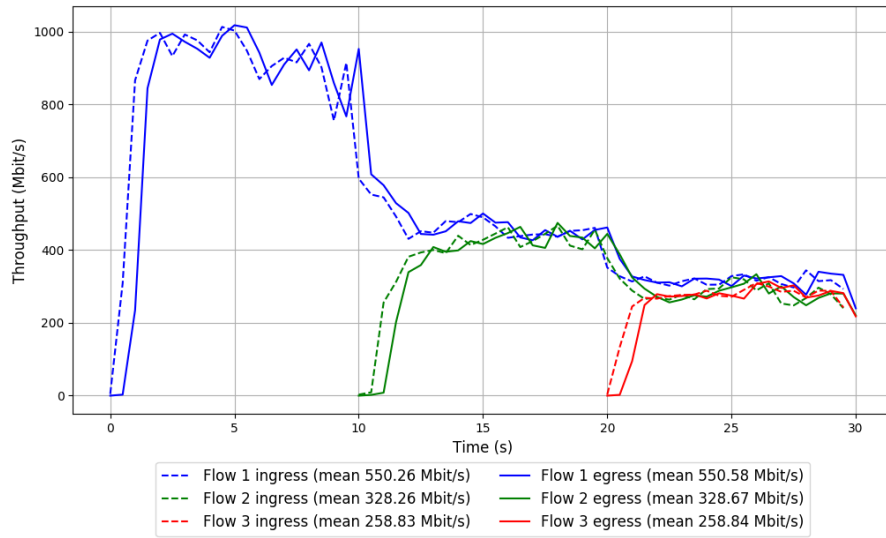
-- Flow 2:

Average throughput: 328.67 Mbit/s  
95th percentile per-packet one-way delay: 51.416 ms  
Loss rate: 0.44%

-- Flow 3:

Average throughput: 258.84 Mbit/s  
95th percentile per-packet one-way delay: 51.170 ms  
Loss rate: 1.01%

## Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-08-27 22:12:42  
End at: 2019-08-27 22:13:12  
Local clock offset: -0.096 ms  
Remote clock offset: -0.037 ms

# Below is generated by plot.py at 2019-08-28 00:35:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 761.91 Mbit/s  
95th percentile per-packet one-way delay: 73.508 ms  
Loss rate: 0.97%

-- Flow 1:

Average throughput: 463.30 Mbit/s  
95th percentile per-packet one-way delay: 87.305 ms  
Loss rate: 1.28%

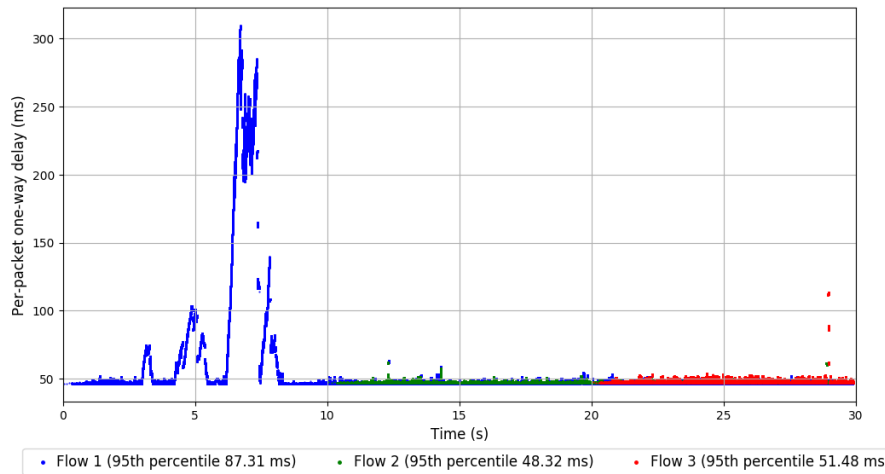
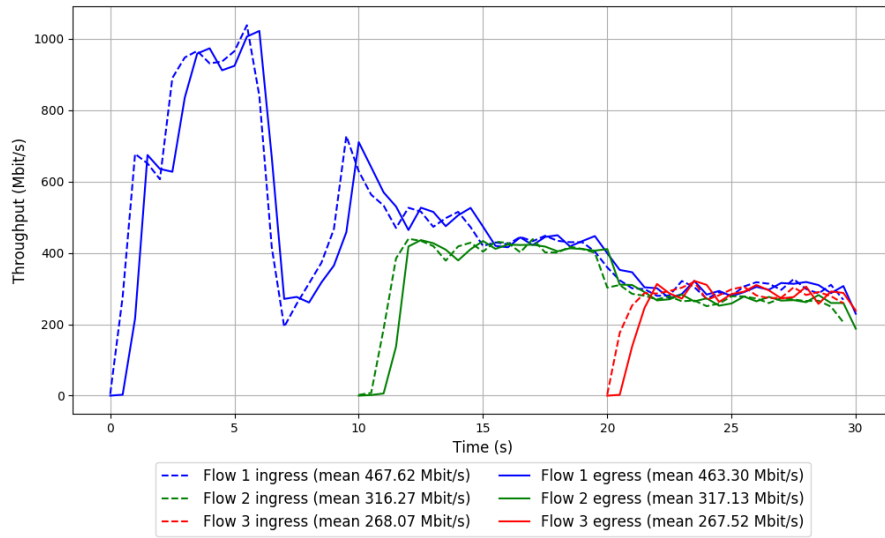
-- Flow 2:

Average throughput: 317.13 Mbit/s  
95th percentile per-packet one-way delay: 48.320 ms  
Loss rate: 0.26%

-- Flow 3:

Average throughput: 267.52 Mbit/s  
95th percentile per-packet one-way delay: 51.478 ms  
Loss rate: 0.98%

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





Run 4: Statistics of FillP

Start at: 2019-08-27 22:51:39  
End at: 2019-08-27 22:52:09  
Local clock offset: 0.004 ms  
Remote clock offset: -0.092 ms

# Below is generated by plot.py at 2019-08-28 00:35:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 822.03 Mbit/s  
95th percentile per-packet one-way delay: 79.629 ms  
Loss rate: 0.50%

-- Flow 1:

Average throughput: 490.91 Mbit/s  
95th percentile per-packet one-way delay: 85.733 ms  
Loss rate: 0.41%

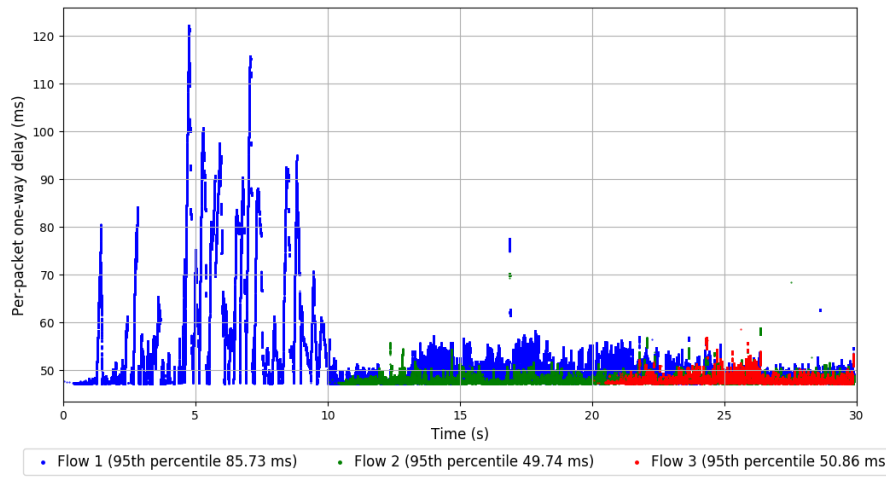
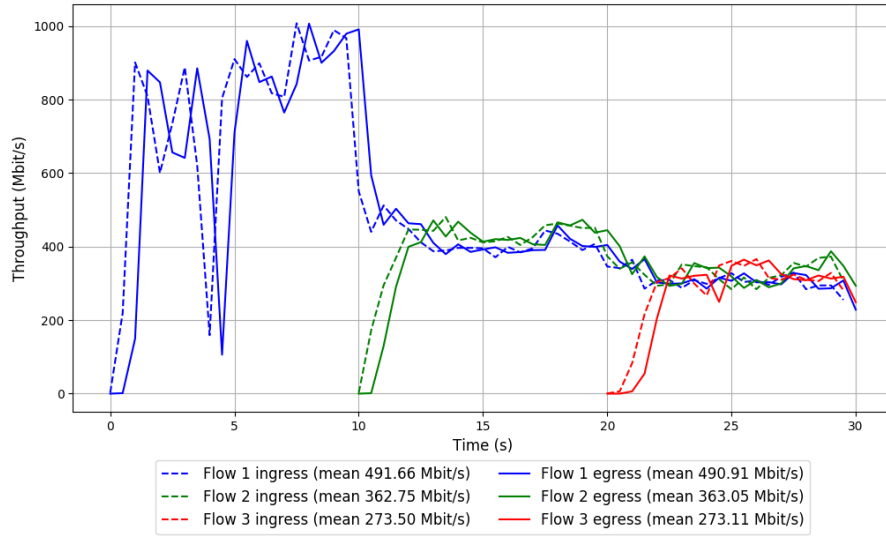
-- Flow 2:

Average throughput: 363.05 Mbit/s  
95th percentile per-packet one-way delay: 49.745 ms  
Loss rate: 0.41%

-- Flow 3:

Average throughput: 273.11 Mbit/s  
95th percentile per-packet one-way delay: 50.864 ms  
Loss rate: 1.20%

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



Run 5: Statistics of FillP

Start at: 2019-08-27 23:31:07  
End at: 2019-08-27 23:31:37  
Local clock offset: -0.145 ms  
Remote clock offset: -0.106 ms

# Below is generated by plot.py at 2019-08-28 00:36:06

# Datalink statistics

-- Total of 3 flows:

Average throughput: 848.92 Mbit/s  
95th percentile per-packet one-way delay: 70.540 ms  
Loss rate: 0.51%

-- Flow 1:

Average throughput: 530.37 Mbit/s  
95th percentile per-packet one-way delay: 83.695 ms  
Loss rate: 0.48%

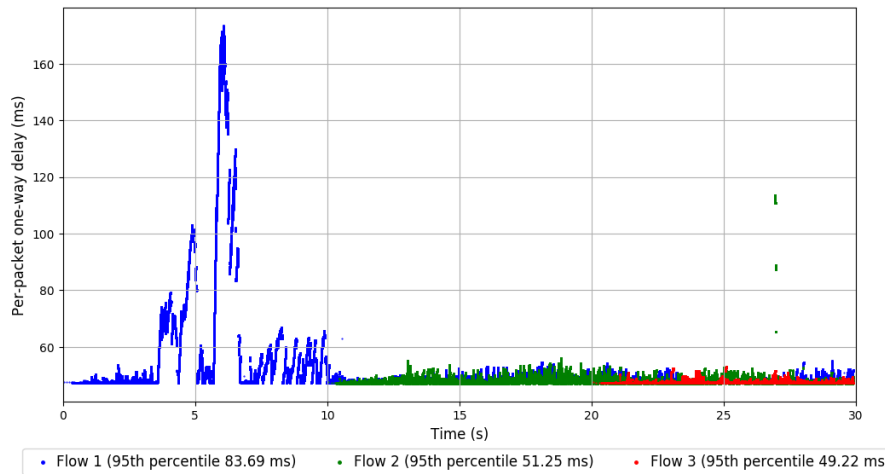
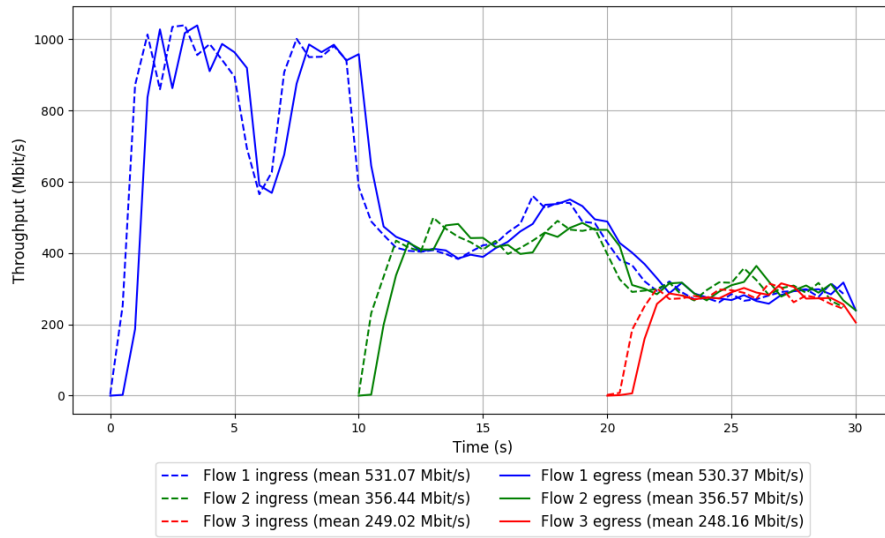
-- Flow 2:

Average throughput: 356.57 Mbit/s  
95th percentile per-packet one-way delay: 51.254 ms  
Loss rate: 0.34%

-- Flow 3:

Average throughput: 248.16 Mbit/s  
95th percentile per-packet one-way delay: 49.217 ms  
Loss rate: 1.18%

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



Run 1: Statistics of FillP-Sheep

Start at: 2019-08-27 20:39:23  
End at: 2019-08-27 20:39:53  
Local clock offset: -0.086 ms  
Remote clock offset: -0.029 ms

# Below is generated by plot.py at 2019-08-28 00:36:06

# Datalink statistics

-- Total of 3 flows:

Average throughput: 779.09 Mbit/s  
95th percentile per-packet one-way delay: 59.951 ms  
Loss rate: 0.32%

-- Flow 1:

Average throughput: 490.74 Mbit/s  
95th percentile per-packet one-way delay: 65.590 ms  
Loss rate: 0.19%

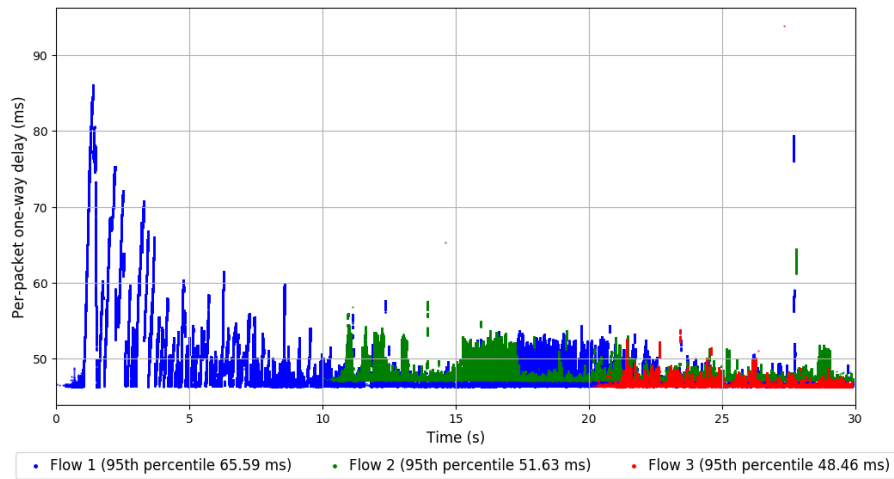
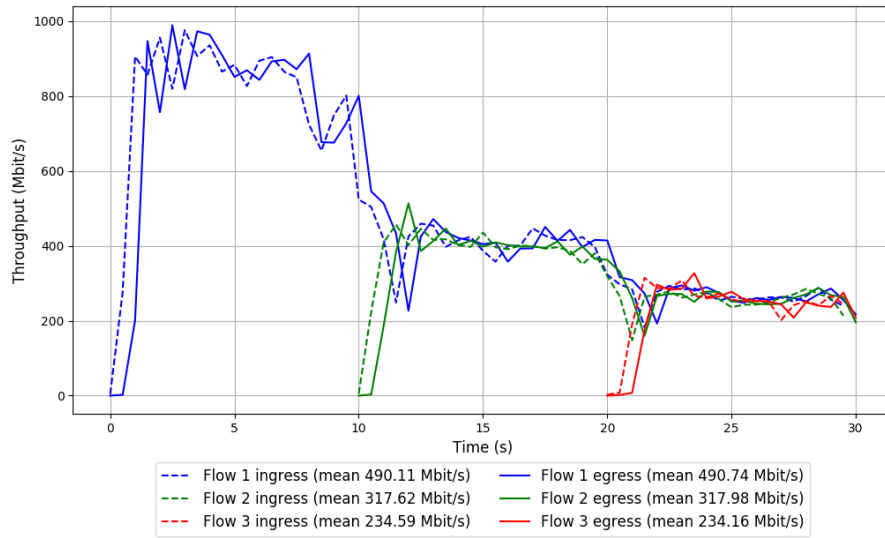
-- Flow 2:

Average throughput: 317.98 Mbit/s  
95th percentile per-packet one-way delay: 51.631 ms  
Loss rate: 0.29%

-- Flow 3:

Average throughput: 234.16 Mbit/s  
95th percentile per-packet one-way delay: 48.456 ms  
Loss rate: 1.23%

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



Run 2: Statistics of FillP-Sheep

Start at: 2019-08-27 21:18:34  
End at: 2019-08-27 21:19:04  
Local clock offset: 0.333 ms  
Remote clock offset: -0.041 ms

# Below is generated by plot.py at 2019-08-28 00:36:06

# Datalink statistics

-- Total of 3 flows:

Average throughput: 763.72 Mbit/s  
95th percentile per-packet one-way delay: 54.568 ms  
Loss rate: 0.34%

-- Flow 1:

Average throughput: 482.03 Mbit/s  
95th percentile per-packet one-way delay: 58.037 ms  
Loss rate: 0.20%

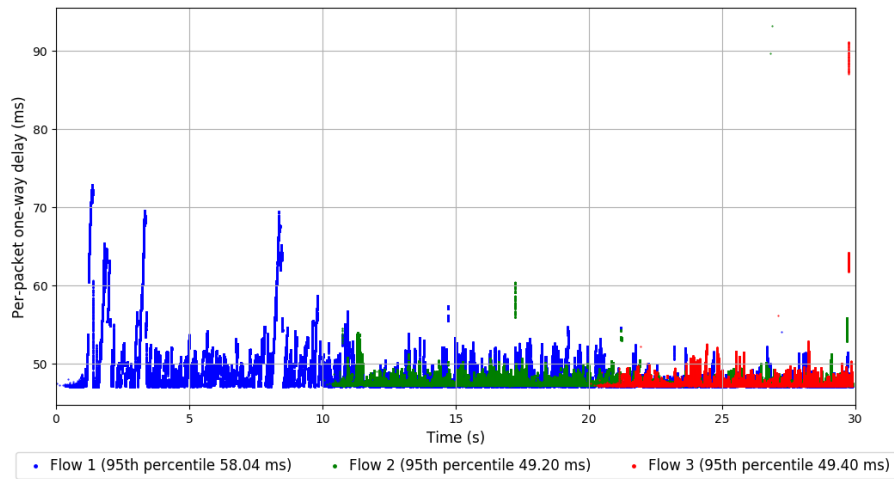
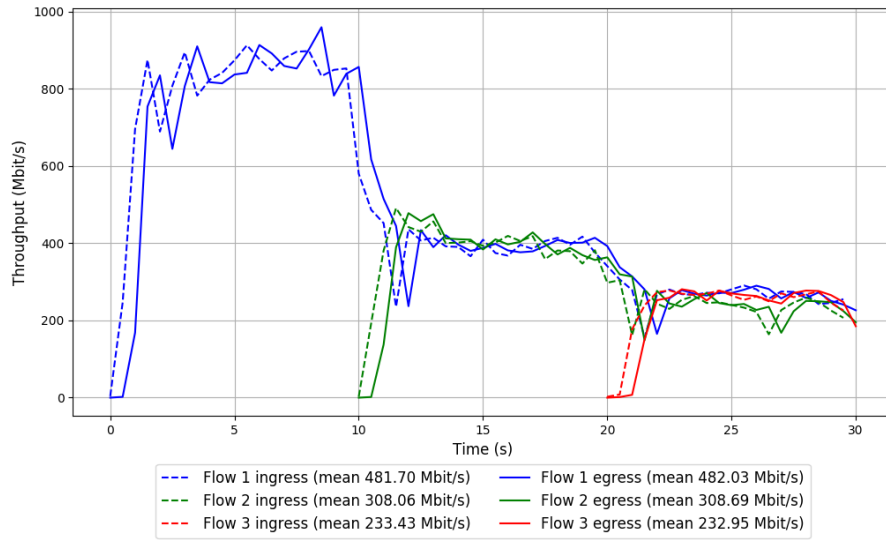
-- Flow 2:

Average throughput: 308.69 Mbit/s  
95th percentile per-packet one-way delay: 49.195 ms  
Loss rate: 0.30%

-- Flow 3:

Average throughput: 232.95 Mbit/s  
95th percentile per-packet one-way delay: 49.403 ms  
Loss rate: 1.30%

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





Run 3: Statistics of FillP-Sheep

Start at: 2019-08-27 21:57:45  
End at: 2019-08-27 21:58:15  
Local clock offset: -0.15 ms  
Remote clock offset: -0.029 ms

# Below is generated by plot.py at 2019-08-28 00:36:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 770.74 Mbit/s  
95th percentile per-packet one-way delay: 59.557 ms  
Loss rate: 0.36%

-- Flow 1:

Average throughput: 496.51 Mbit/s  
95th percentile per-packet one-way delay: 64.012 ms  
Loss rate: 0.21%

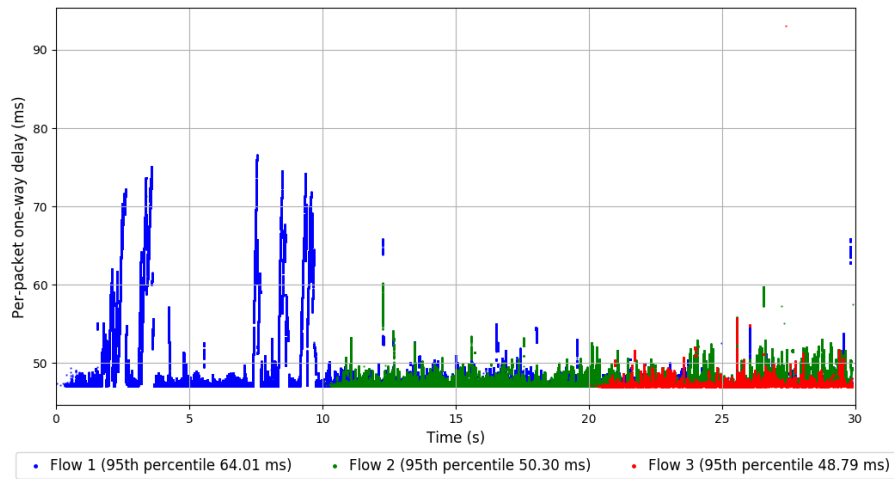
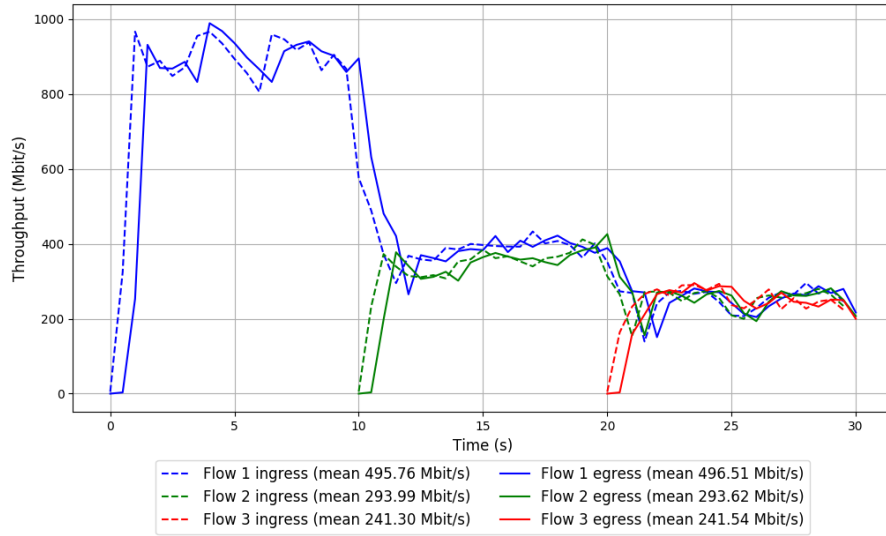
-- Flow 2:

Average throughput: 293.62 Mbit/s  
95th percentile per-packet one-way delay: 50.295 ms  
Loss rate: 0.51%

-- Flow 3:

Average throughput: 241.54 Mbit/s  
95th percentile per-packet one-way delay: 48.788 ms  
Loss rate: 0.91%

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



Run 4: Statistics of FillP-Sheep

Start at: 2019-08-27 22:37:00  
End at: 2019-08-27 22:37:30  
Local clock offset: -0.093 ms  
Remote clock offset: -0.103 ms

# Below is generated by plot.py at 2019-08-28 00:40:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 769.64 Mbit/s  
95th percentile per-packet one-way delay: 65.366 ms  
Loss rate: 0.35%

-- Flow 1:

Average throughput: 507.54 Mbit/s  
95th percentile per-packet one-way delay: 71.199 ms  
Loss rate: 0.17%

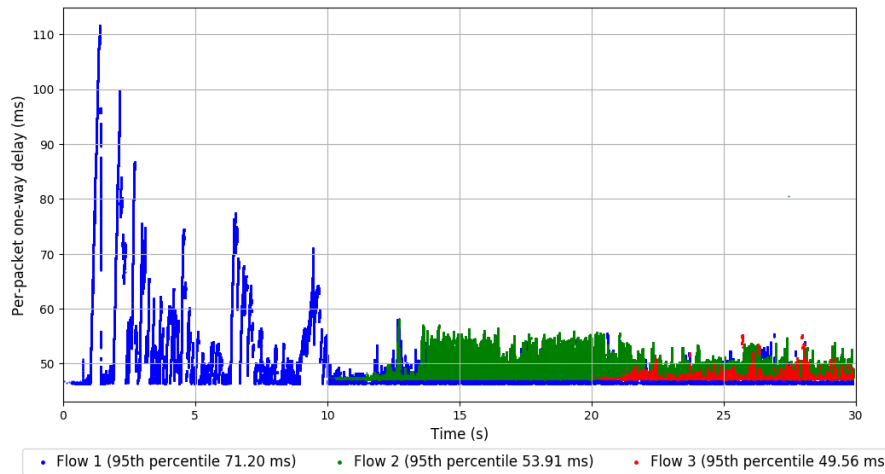
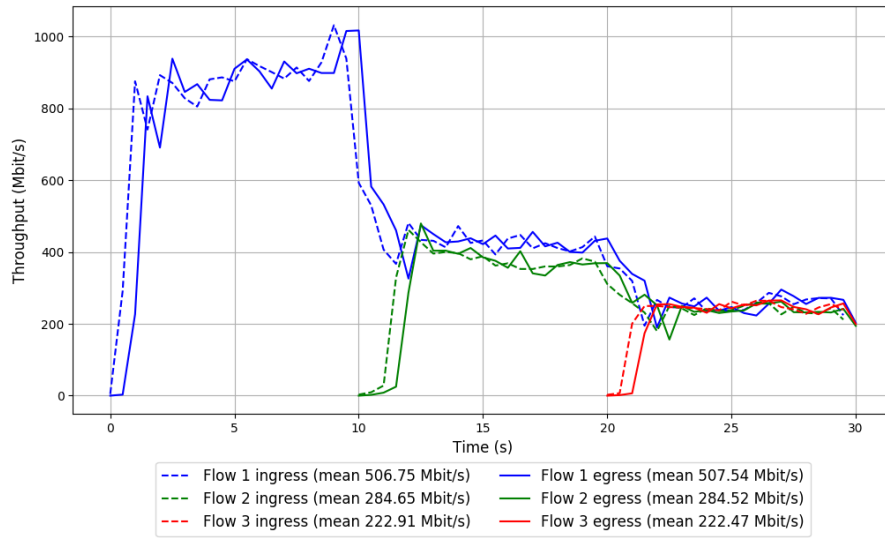
-- Flow 2:

Average throughput: 284.52 Mbit/s  
95th percentile per-packet one-way delay: 53.908 ms  
Loss rate: 0.45%

-- Flow 3:

Average throughput: 222.47 Mbit/s  
95th percentile per-packet one-way delay: 49.563 ms  
Loss rate: 1.29%

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



Run 5: Statistics of FillP-Sheep

Start at: 2019-08-27 23:16:13  
End at: 2019-08-27 23:16:43  
Local clock offset: 0.367 ms  
Remote clock offset: -0.112 ms

# Below is generated by plot.py at 2019-08-28 00:48:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 811.67 Mbit/s  
95th percentile per-packet one-way delay: 64.675 ms  
Loss rate: 0.34%

-- Flow 1:

Average throughput: 513.90 Mbit/s  
95th percentile per-packet one-way delay: 67.745 ms  
Loss rate: 0.15%

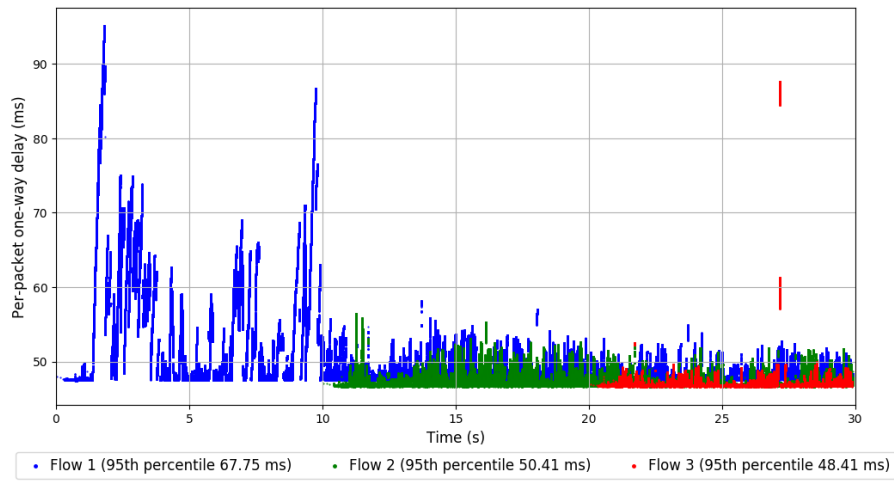
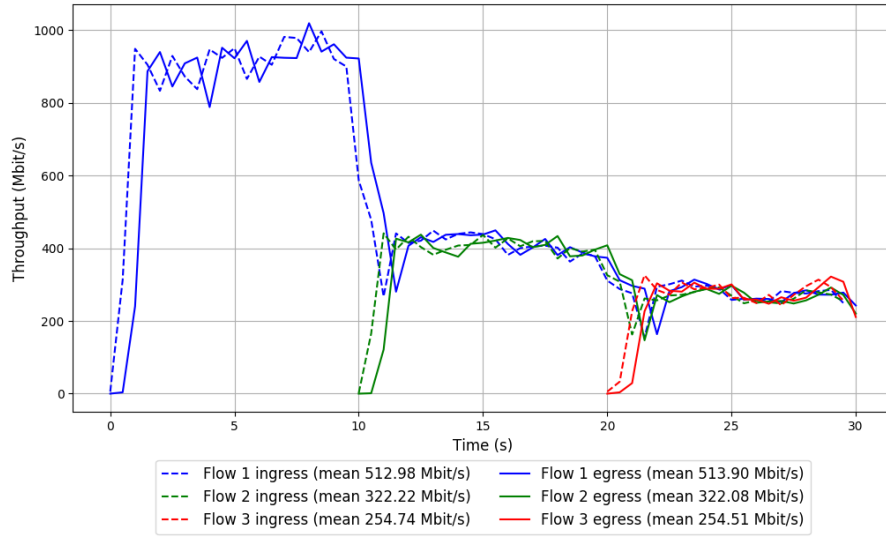
-- Flow 2:

Average throughput: 322.08 Mbit/s  
95th percentile per-packet one-way delay: 50.411 ms  
Loss rate: 0.44%

-- Flow 3:

Average throughput: 254.51 Mbit/s  
95th percentile per-packet one-way delay: 48.407 ms  
Loss rate: 1.21%

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2019-08-27 20:24:58

End at: 2019-08-27 20:25:28

Local clock offset: -0.655 ms

Remote clock offset: 0.031 ms

# Below is generated by plot.py at 2019-08-28 00:48:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 300.87 Mbit/s

95th percentile per-packet one-way delay: 48.985 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 188.27 Mbit/s

95th percentile per-packet one-way delay: 48.730 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 111.41 Mbit/s

95th percentile per-packet one-way delay: 49.237 ms

Loss rate: 0.50%

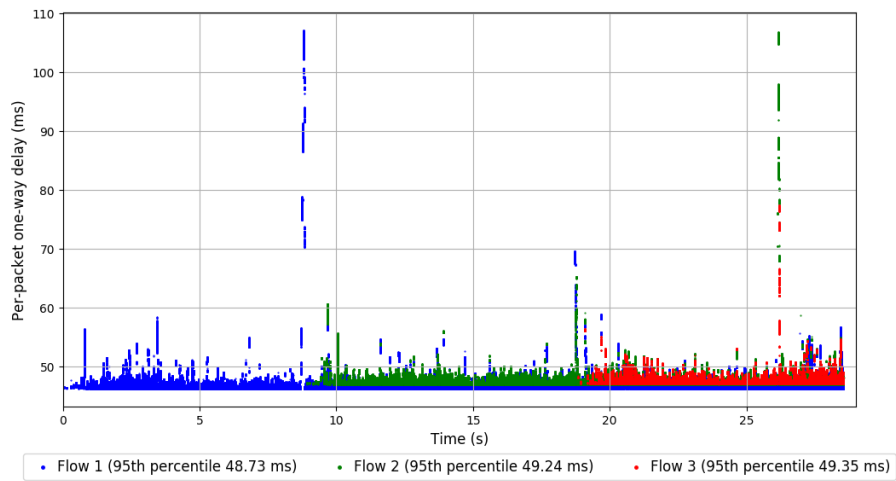
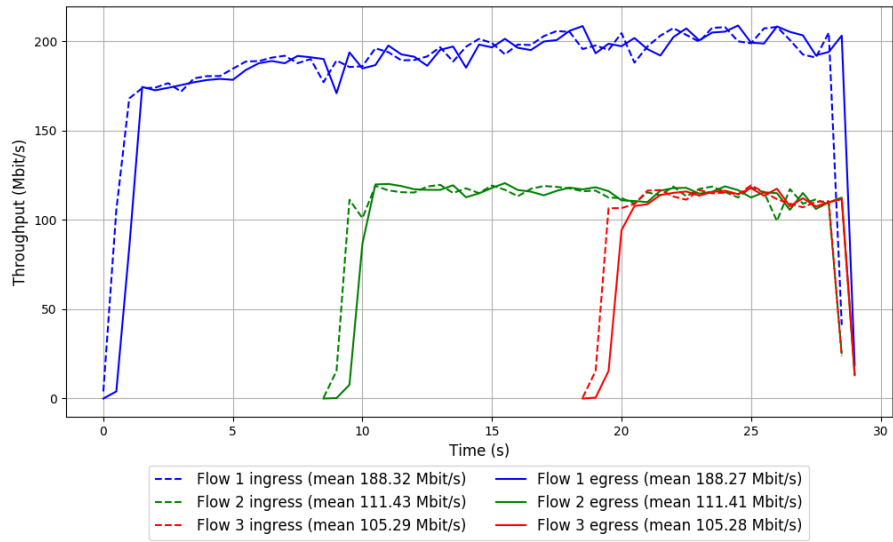
-- Flow 3:

Average throughput: 105.28 Mbit/s

95th percentile per-packet one-way delay: 49.350 ms

Loss rate: 1.00%

# Run 1: Report of Indigo — Data Link





Run 2: Statistics of Indigo

Start at: 2019-08-27 21:03:53  
End at: 2019-08-27 21:04:23  
Local clock offset: 0.18 ms  
Remote clock offset: -0.016 ms

# Below is generated by plot.py at 2019-08-28 00:48:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 268.41 Mbit/s  
95th percentile per-packet one-way delay: 48.607 ms  
Loss rate: 0.52%

-- Flow 1:

Average throughput: 115.17 Mbit/s  
95th percentile per-packet one-way delay: 48.573 ms  
Loss rate: 0.32%

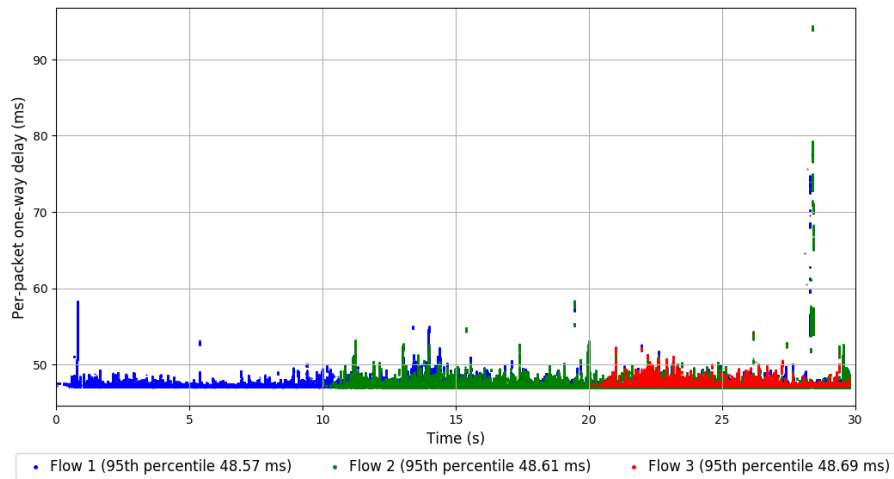
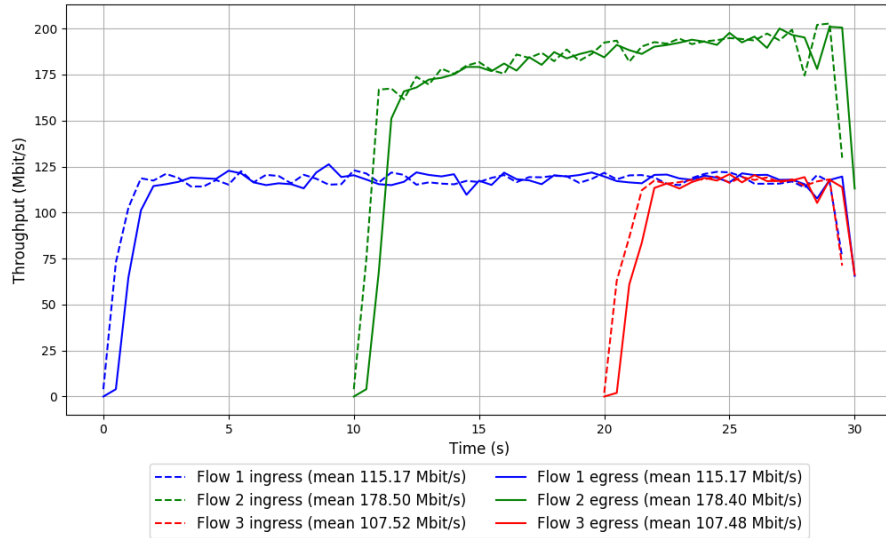
-- Flow 2:

Average throughput: 178.40 Mbit/s  
95th percentile per-packet one-way delay: 48.610 ms  
Loss rate: 0.54%

-- Flow 3:

Average throughput: 107.48 Mbit/s  
95th percentile per-packet one-way delay: 48.687 ms  
Loss rate: 1.09%

## Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-08-27 21:43:05  
End at: 2019-08-27 21:43:35  
Local clock offset: 0.038 ms  
Remote clock offset: -0.034 ms

# Below is generated by plot.py at 2019-08-28 00:48:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 354.38 Mbit/s  
95th percentile per-packet one-way delay: 48.779 ms  
Loss rate: 0.52%

-- Flow 1:

Average throughput: 184.86 Mbit/s  
95th percentile per-packet one-way delay: 48.833 ms  
Loss rate: 0.35%

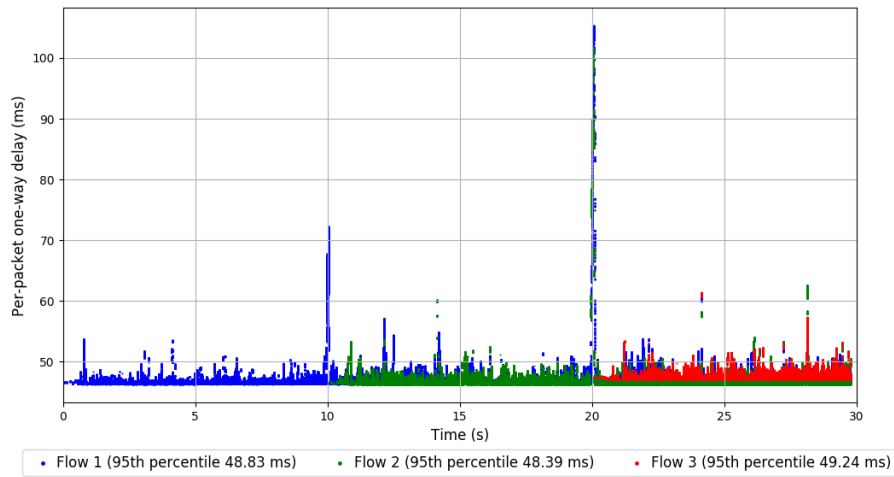
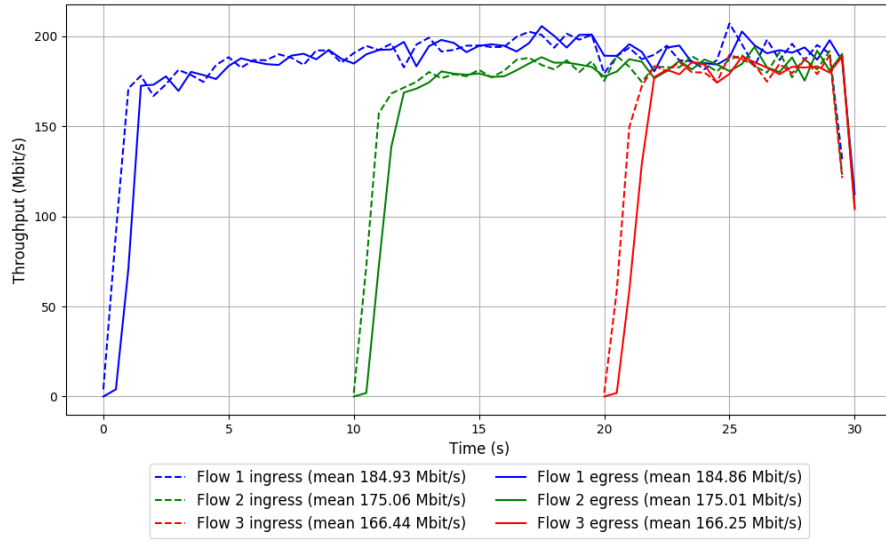
-- Flow 2:

Average throughput: 175.01 Mbit/s  
95th percentile per-packet one-way delay: 48.390 ms  
Loss rate: 0.51%

-- Flow 3:

Average throughput: 166.25 Mbit/s  
95th percentile per-packet one-way delay: 49.241 ms  
Loss rate: 1.10%

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



Run 4: Statistics of Indigo

Start at: 2019-08-27 22:22:15  
End at: 2019-08-27 22:22:45  
Local clock offset: -0.135 ms  
Remote clock offset: -0.068 ms

# Below is generated by plot.py at 2019-08-28 00:48:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 338.38 Mbit/s  
95th percentile per-packet one-way delay: 49.442 ms  
Loss rate: 0.48%

-- Flow 1:

Average throughput: 193.60 Mbit/s  
95th percentile per-packet one-way delay: 49.879 ms  
Loss rate: 0.36%

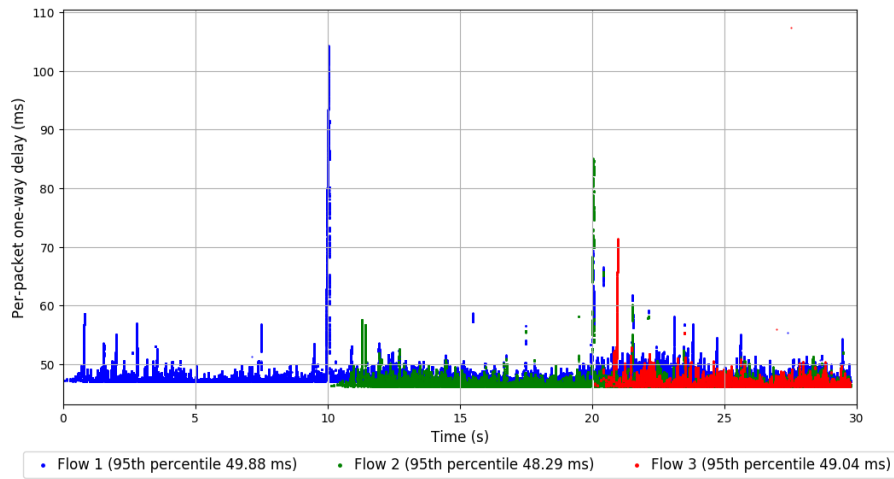
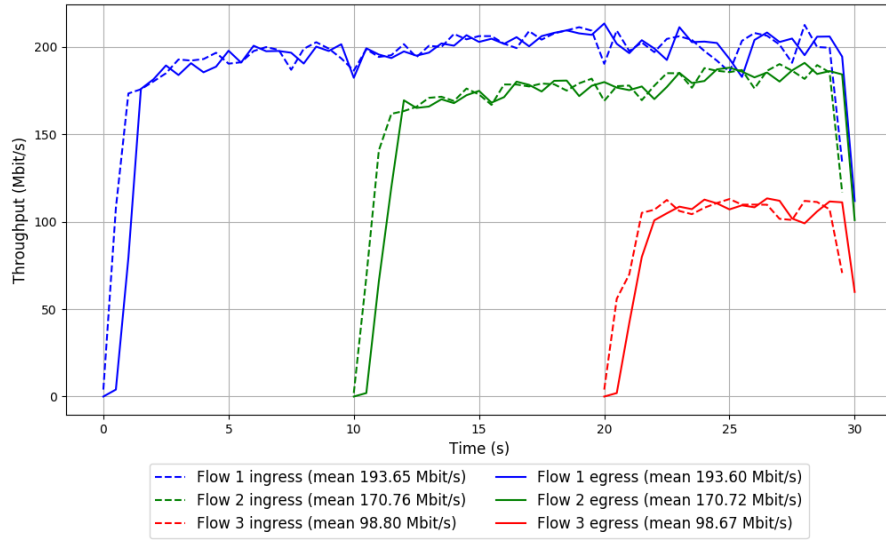
-- Flow 2:

Average throughput: 170.72 Mbit/s  
95th percentile per-packet one-way delay: 48.287 ms  
Loss rate: 0.50%

-- Flow 3:

Average throughput: 98.67 Mbit/s  
95th percentile per-packet one-way delay: 49.044 ms  
Loss rate: 1.11%

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



Run 5: Statistics of Indigo

Start at: 2019-08-27 23:01:22  
End at: 2019-08-27 23:01:52  
Local clock offset: -0.385 ms  
Remote clock offset: -0.078 ms

# Below is generated by plot.py at 2019-08-28 00:48:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 351.88 Mbit/s  
95th percentile per-packet one-way delay: 49.157 ms  
Loss rate: 0.46%

-- Flow 1:

Average throughput: 194.00 Mbit/s  
95th percentile per-packet one-way delay: 49.407 ms  
Loss rate: 0.31%

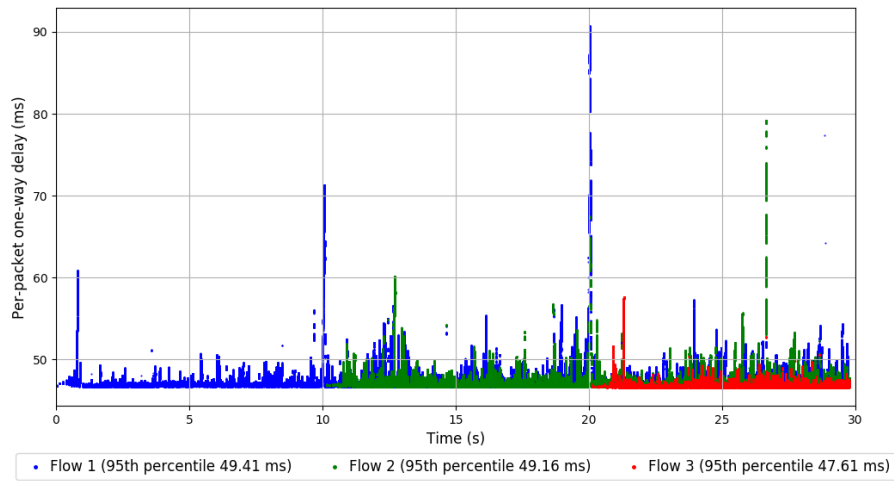
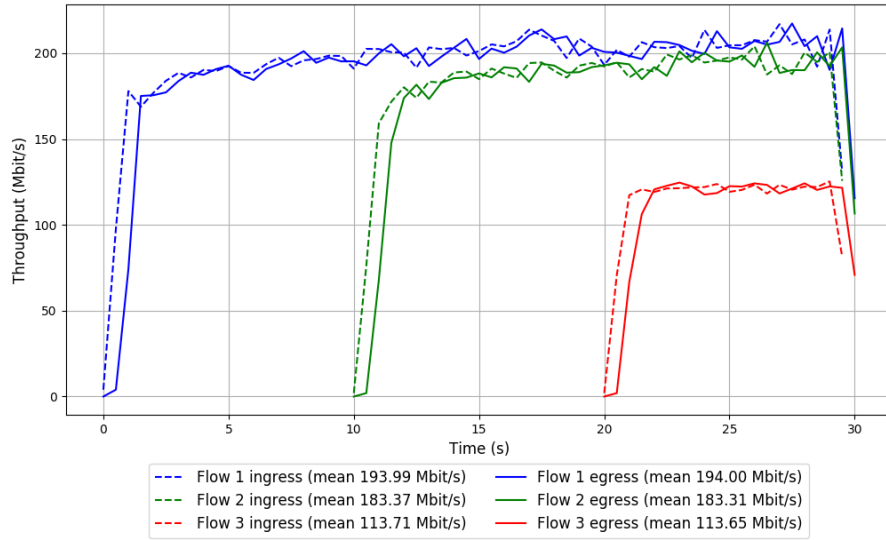
-- Flow 2:

Average throughput: 183.31 Mbit/s  
95th percentile per-packet one-way delay: 49.159 ms  
Loss rate: 0.52%

-- Flow 3:

Average throughput: 113.65 Mbit/s  
95th percentile per-packet one-way delay: 47.612 ms  
Loss rate: 1.05%

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





Run 1: Statistics of Indigo-MusesC3

Start at: 2019-08-27 20:35:53  
End at: 2019-08-27 20:36:23  
Local clock offset: -0.134 ms  
Remote clock offset: -0.014 ms

# Below is generated by plot.py at 2019-08-28 00:48:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 658.61 Mbit/s  
95th percentile per-packet one-way delay: 52.243 ms  
Loss rate: 0.47%

-- Flow 1:

Average throughput: 395.50 Mbit/s  
95th percentile per-packet one-way delay: 51.903 ms  
Loss rate: 0.21%

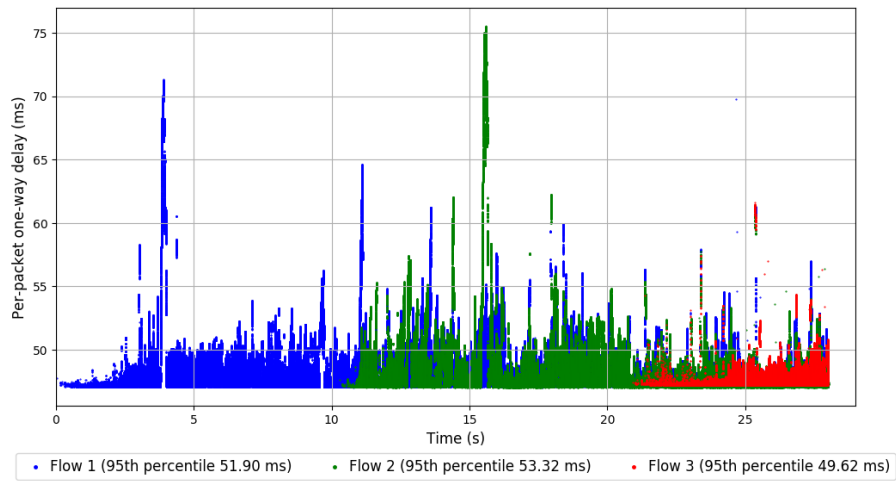
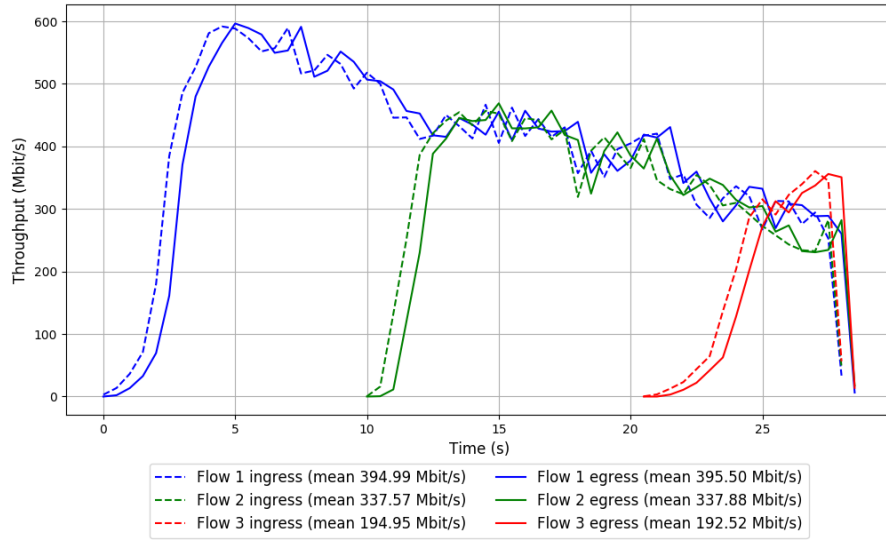
-- Flow 2:

Average throughput: 337.88 Mbit/s  
95th percentile per-packet one-way delay: 53.317 ms  
Loss rate: 0.45%

-- Flow 3:

Average throughput: 192.52 Mbit/s  
95th percentile per-packet one-way delay: 49.617 ms  
Loss rate: 2.58%

### Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-08-27 21:15:02  
End at: 2019-08-27 21:15:32  
Local clock offset: 0.297 ms  
Remote clock offset: -0.046 ms

# Below is generated by plot.py at 2019-08-28 00:50:43

# Datalink statistics

-- Total of 3 flows:

Average throughput: 671.11 Mbit/s  
95th percentile per-packet one-way delay: 52.282 ms  
Loss rate: 0.45%

-- Flow 1:

Average throughput: 393.91 Mbit/s  
95th percentile per-packet one-way delay: 51.419 ms  
Loss rate: 0.19%

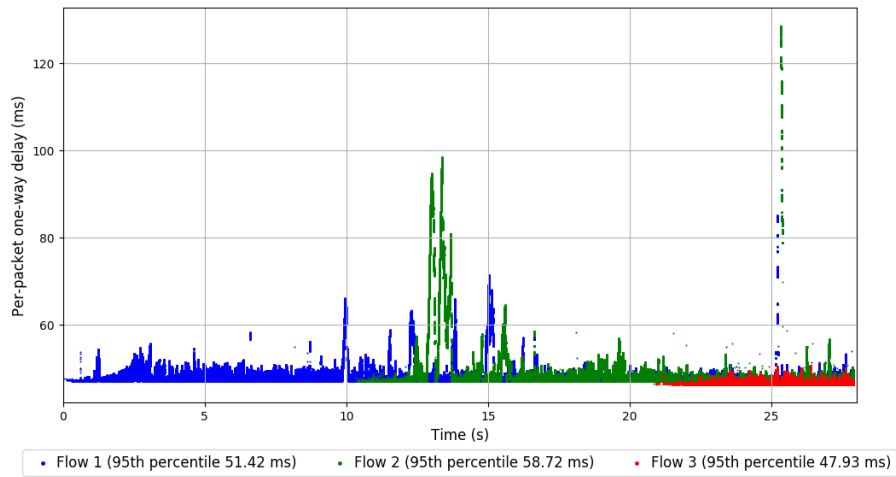
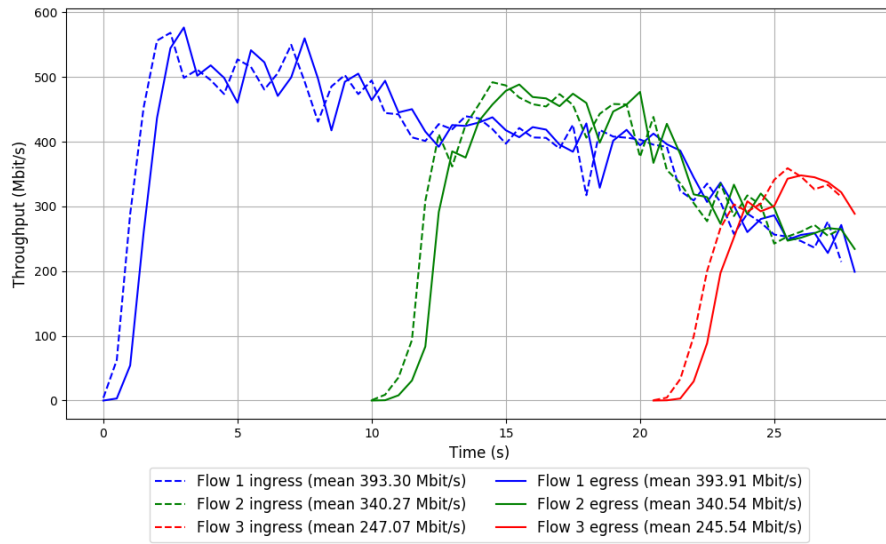
-- Flow 2:

Average throughput: 340.54 Mbit/s  
95th percentile per-packet one-way delay: 58.718 ms  
Loss rate: 0.48%

-- Flow 3:

Average throughput: 245.54 Mbit/s  
95th percentile per-packet one-way delay: 47.932 ms  
Loss rate: 1.95%

## Run 2: Report of Indigo-MusesC3 — Data Link



Run 3: Statistics of Indigo-MusesC3

Start at: 2019-08-27 21:54:16  
End at: 2019-08-27 21:54:46  
Local clock offset: -0.133 ms  
Remote clock offset: -0.029 ms

# Below is generated by plot.py at 2019-08-28 00:52:06

# Datalink statistics

-- Total of 3 flows:

Average throughput: 634.22 Mbit/s  
95th percentile per-packet one-way delay: 70.591 ms  
Loss rate: 0.46%

-- Flow 1:

Average throughput: 390.15 Mbit/s  
95th percentile per-packet one-way delay: 63.666 ms  
Loss rate: 0.13%

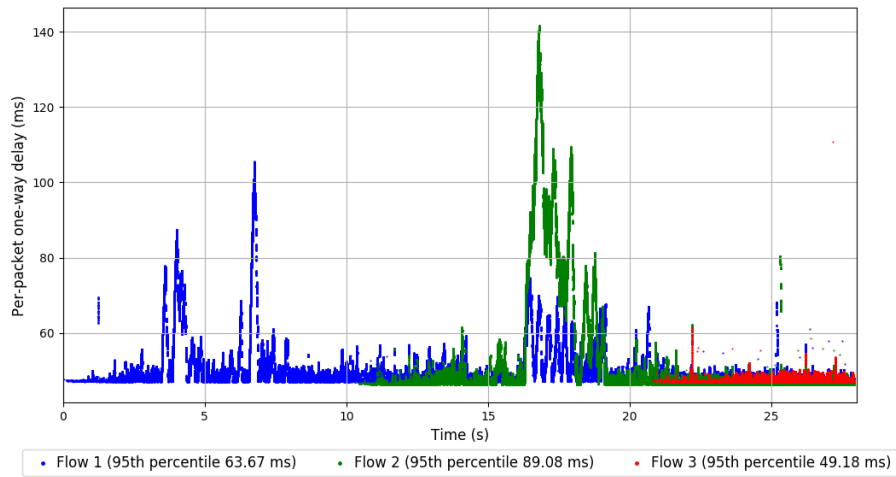
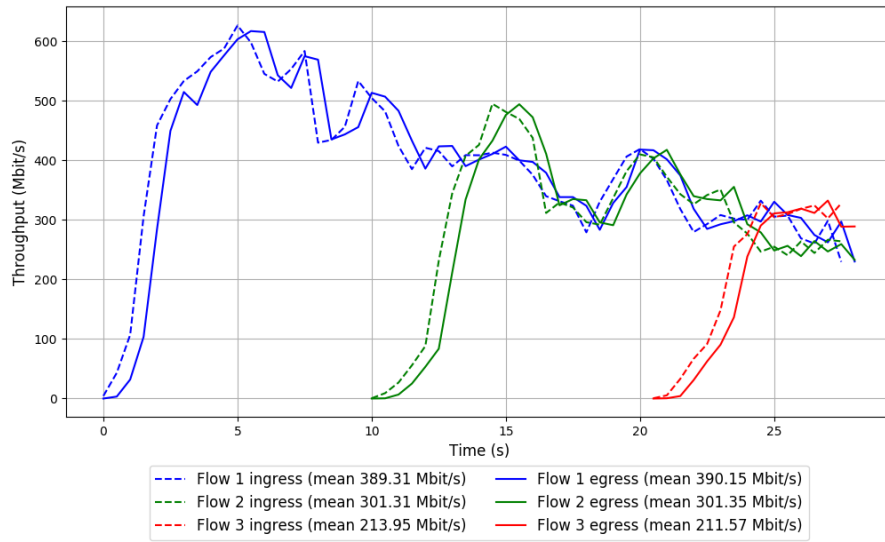
-- Flow 2:

Average throughput: 301.35 Mbit/s  
95th percentile per-packet one-way delay: 89.081 ms  
Loss rate: 0.58%

-- Flow 3:

Average throughput: 211.57 Mbit/s  
95th percentile per-packet one-way delay: 49.183 ms  
Loss rate: 2.38%

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



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-08-27 22:33:28  
End at: 2019-08-27 22:33:58  
Local clock offset: -0.076 ms  
Remote clock offset: -0.069 ms

# Below is generated by plot.py at 2019-08-28 00:53:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 678.19 Mbit/s  
95th percentile per-packet one-way delay: 50.729 ms  
Loss rate: 0.46%

-- Flow 1:

Average throughput: 397.73 Mbit/s  
95th percentile per-packet one-way delay: 51.055 ms  
Loss rate: 0.23%

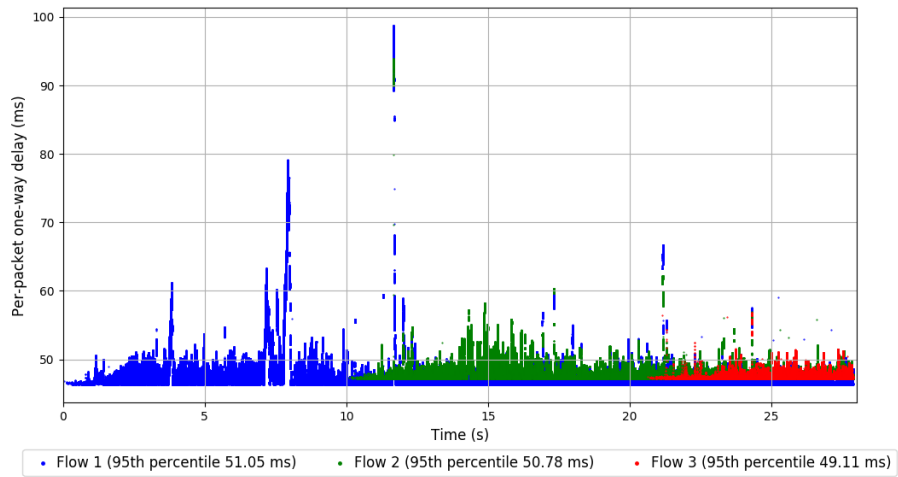
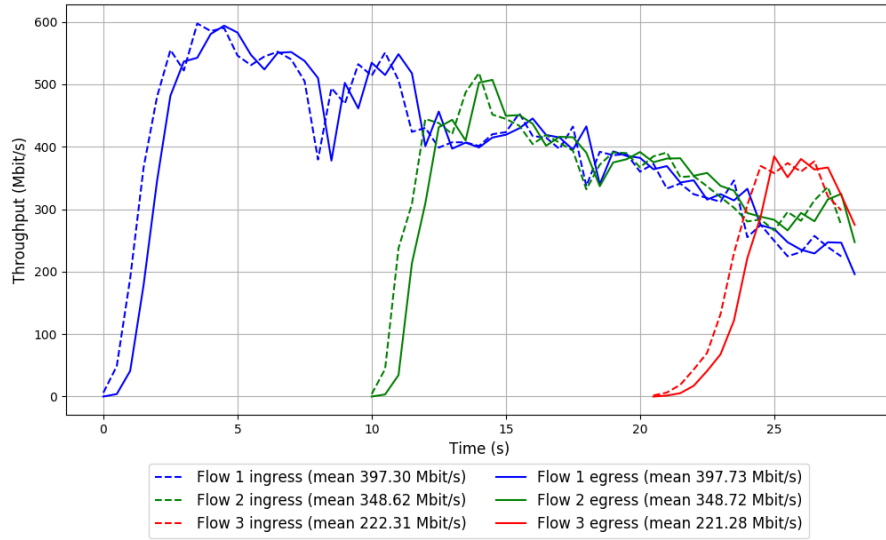
-- Flow 2:

Average throughput: 348.72 Mbit/s  
95th percentile per-packet one-way delay: 50.778 ms  
Loss rate: 0.54%

-- Flow 3:

Average throughput: 221.28 Mbit/s  
95th percentile per-packet one-way delay: 49.109 ms  
Loss rate: 1.73%

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





Run 5: Statistics of Indigo-MusesC3

Start at: 2019-08-27 23:12:42  
End at: 2019-08-27 23:13:12  
Local clock offset: 0.044 ms  
Remote clock offset: -0.101 ms

# Below is generated by plot.py at 2019-08-28 00:54:47

# Datalink statistics

-- Total of 3 flows:

Average throughput: 654.78 Mbit/s  
95th percentile per-packet one-way delay: 50.555 ms  
Loss rate: 0.46%

-- Flow 1:

Average throughput: 367.77 Mbit/s  
95th percentile per-packet one-way delay: 50.257 ms  
Loss rate: 0.28%

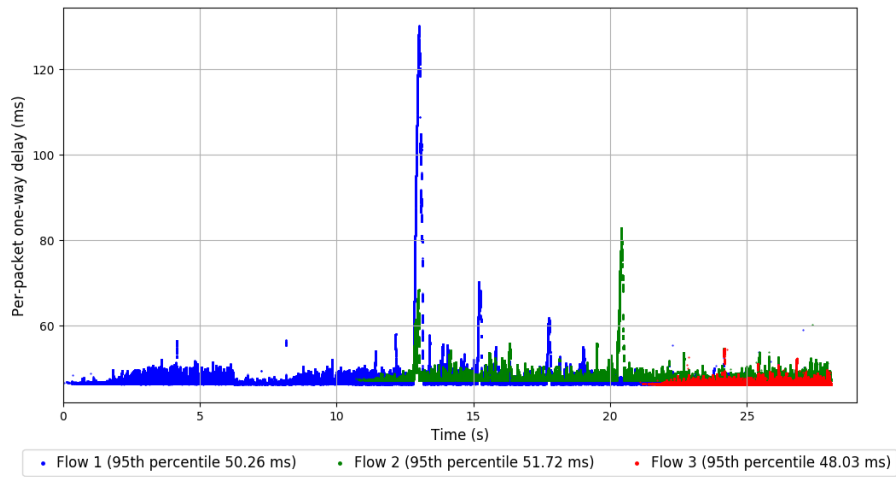
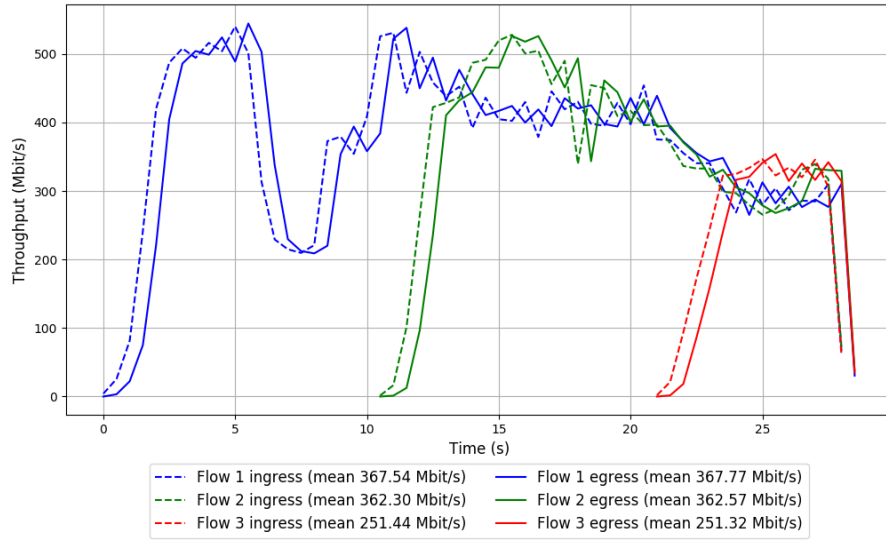
-- Flow 2:

Average throughput: 362.57 Mbit/s  
95th percentile per-packet one-way delay: 51.718 ms  
Loss rate: 0.50%

-- Flow 3:

Average throughput: 251.32 Mbit/s  
95th percentile per-packet one-way delay: 48.034 ms  
Loss rate: 1.39%

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



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-08-27 20:55:57

End at: 2019-08-27 20:56:27

Local clock offset: 0.133 ms

Remote clock offset: 0.001 ms

# Below is generated by plot.py at 2019-08-28 00:57:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 776.54 Mbit/s

95th percentile per-packet one-way delay: 60.055 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 434.85 Mbit/s

95th percentile per-packet one-way delay: 59.040 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 419.23 Mbit/s

95th percentile per-packet one-way delay: 63.108 ms

Loss rate: 0.51%

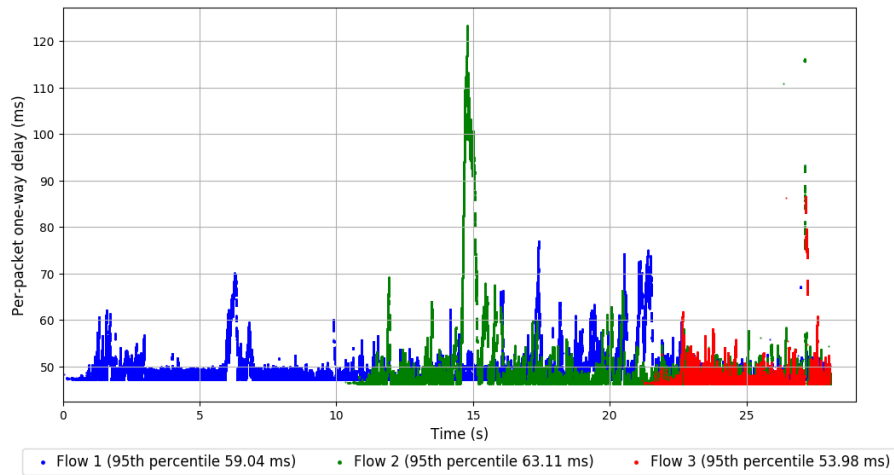
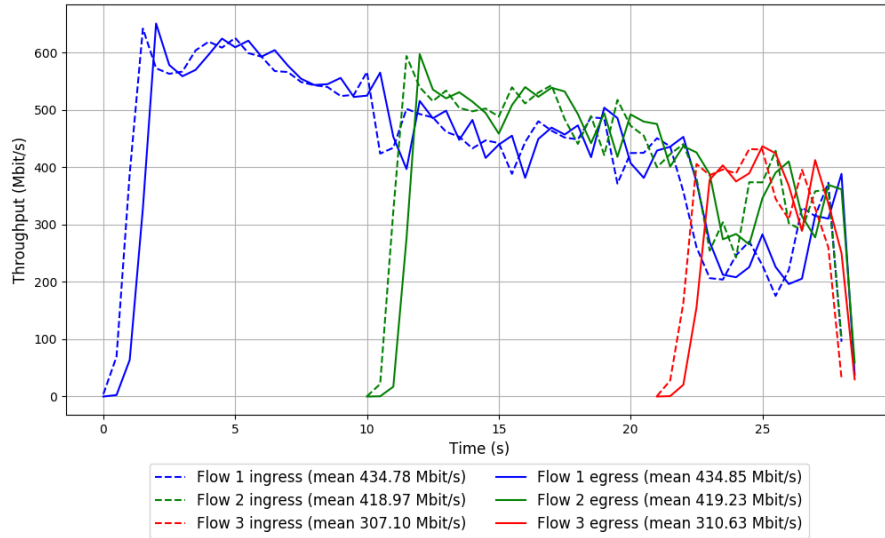
-- Flow 3:

Average throughput: 310.63 Mbit/s

95th percentile per-packet one-way delay: 53.976 ms

Loss rate: 0.74%

# Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

Start at: 2019-08-27 21:35:10  
End at: 2019-08-27 21:35:40  
Local clock offset: 0.355 ms  
Remote clock offset: -0.088 ms

# Below is generated by plot.py at 2019-08-28 00:57:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 728.76 Mbit/s  
95th percentile per-packet one-way delay: 66.515 ms  
Loss rate: 0.36%

-- Flow 1:

Average throughput: 437.99 Mbit/s  
95th percentile per-packet one-way delay: 68.865 ms  
Loss rate: 0.17%

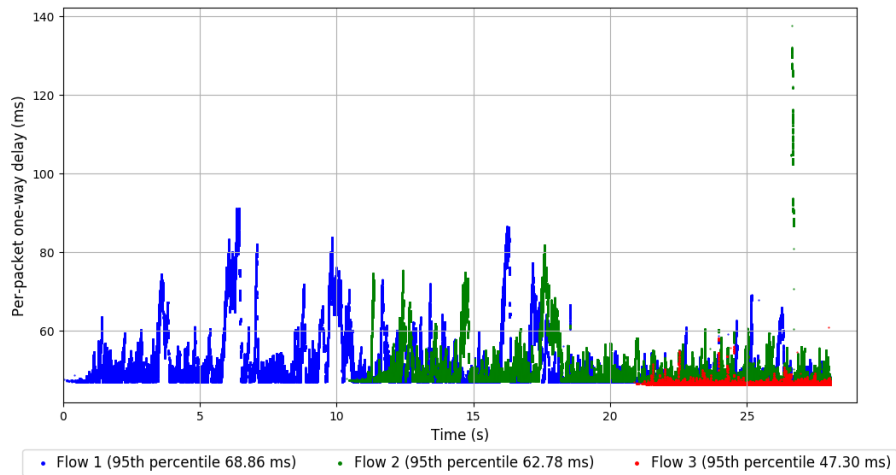
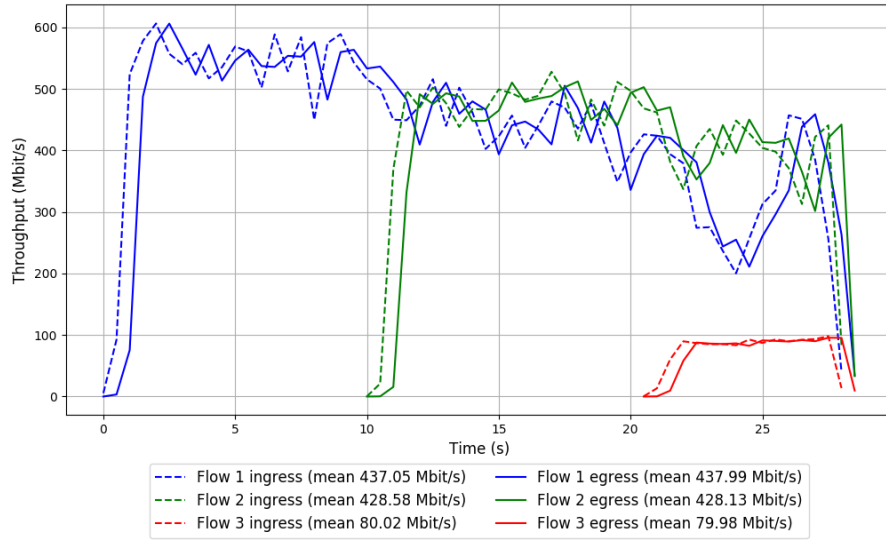
-- Flow 2:

Average throughput: 428.13 Mbit/s  
95th percentile per-packet one-way delay: 62.776 ms  
Loss rate: 0.60%

-- Flow 3:

Average throughput: 79.98 Mbit/s  
95th percentile per-packet one-way delay: 47.305 ms  
Loss rate: 1.27%

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

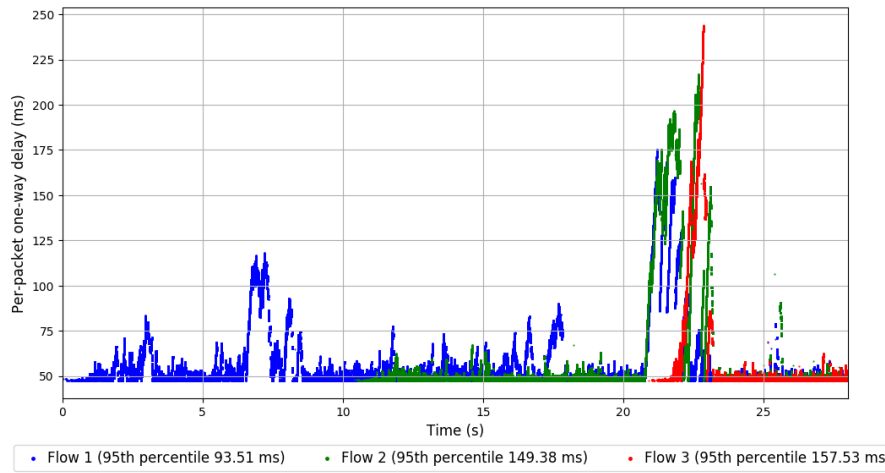
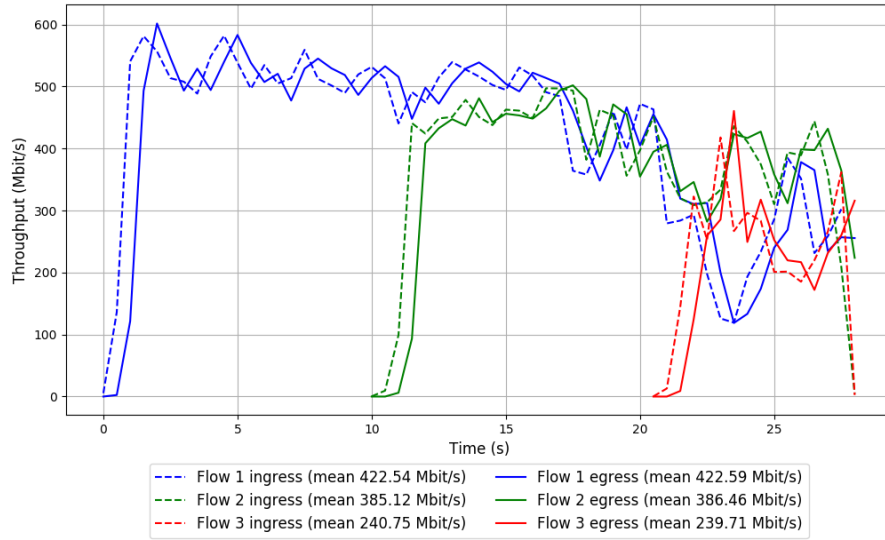


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-08-27 22:14:23  
End at: 2019-08-27 22:14:53  
Local clock offset: 0.223 ms  
Remote clock offset: -0.056 ms

```
# Below is generated by plot.py at 2019-08-28 00:57:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 725.74 Mbit/s
95th percentile per-packet one-way delay: 111.538 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 422.59 Mbit/s
95th percentile per-packet one-way delay: 93.514 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 386.46 Mbit/s
95th percentile per-packet one-way delay: 149.379 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 239.71 Mbit/s
95th percentile per-packet one-way delay: 157.525 ms
Loss rate: 1.79%
```

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





Run 4: Statistics of Indigo-MusesC5

Start at: 2019-08-27 22:53:22  
End at: 2019-08-27 22:53:52  
Local clock offset: -0.019 ms  
Remote clock offset: -0.034 ms

# Below is generated by plot.py at 2019-08-28 01:00:06

# Datalink statistics

-- Total of 3 flows:

Average throughput: 736.67 Mbit/s  
95th percentile per-packet one-way delay: 58.183 ms  
Loss rate: 0.47%

-- Flow 1:

Average throughput: 414.25 Mbit/s  
95th percentile per-packet one-way delay: 59.725 ms  
Loss rate: 0.14%

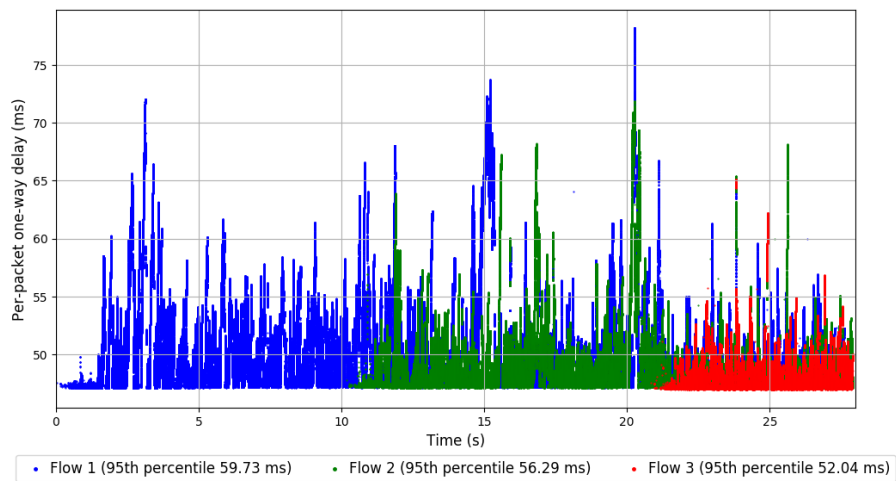
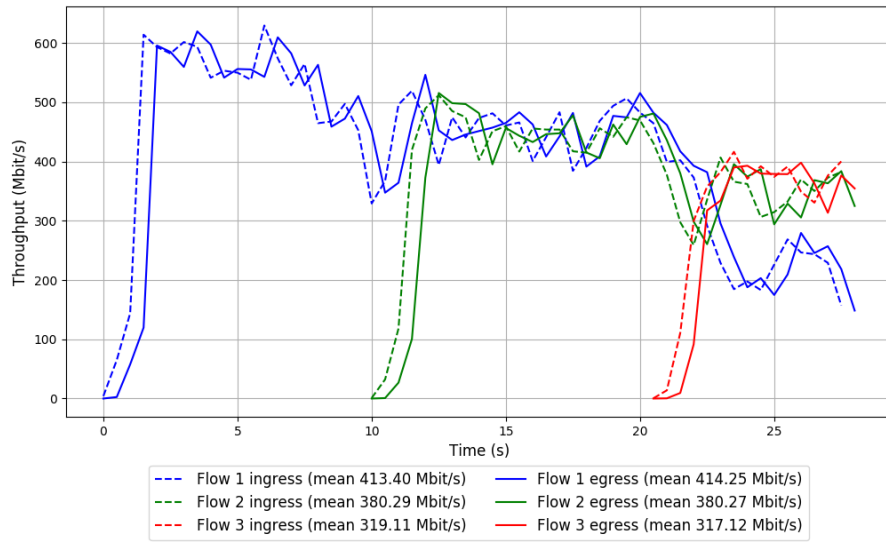
-- Flow 2:

Average throughput: 380.27 Mbit/s  
95th percentile per-packet one-way delay: 56.294 ms  
Loss rate: 0.55%

-- Flow 3:

Average throughput: 317.12 Mbit/s  
95th percentile per-packet one-way delay: 52.039 ms  
Loss rate: 1.91%

### Run 4: Report of Indigo-MusesC5 — Data Link

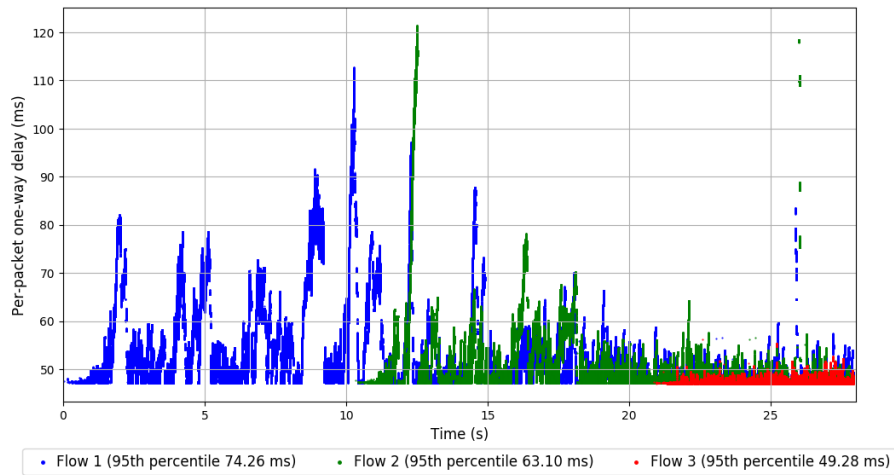
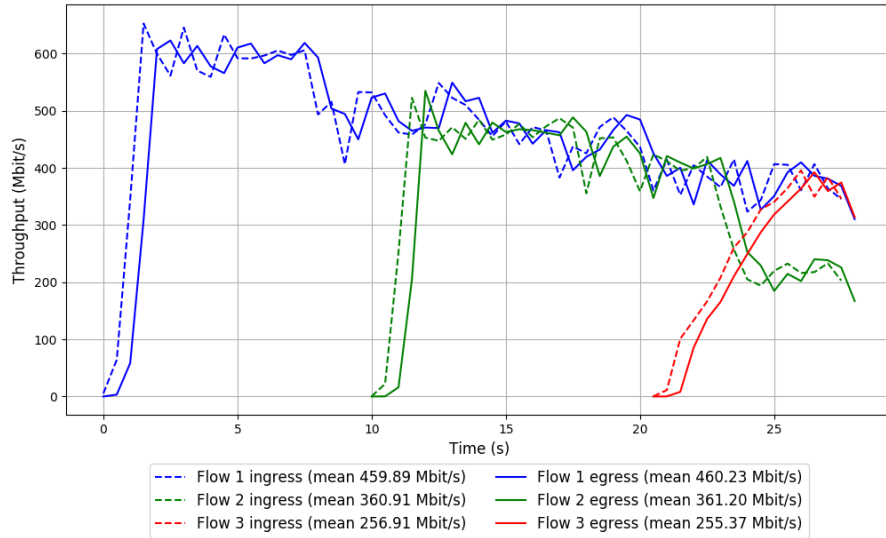


Run 5: Statistics of Indigo-MusesC5

Start at: 2019-08-27 23:32:50  
End at: 2019-08-27 23:33:20  
Local clock offset: -0.21 ms  
Remote clock offset: -0.112 ms

```
# Below is generated by plot.py at 2019-08-28 01:02:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 752.76 Mbit/s
95th percentile per-packet one-way delay: 71.027 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 460.23 Mbit/s
95th percentile per-packet one-way delay: 74.258 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 361.20 Mbit/s
95th percentile per-packet one-way delay: 63.098 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 255.37 Mbit/s
95th percentile per-packet one-way delay: 49.279 ms
Loss rate: 1.92%
```

Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-08-27 20:29:54

End at: 2019-08-27 20:30:24

Local clock offset: -0.364 ms

Remote clock offset: -0.02 ms

# Below is generated by plot.py at 2019-08-28 01:02:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 504.00 Mbit/s

95th percentile per-packet one-way delay: 57.966 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 375.85 Mbit/s

95th percentile per-packet one-way delay: 60.260 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 111.32 Mbit/s

95th percentile per-packet one-way delay: 47.868 ms

Loss rate: 0.50%

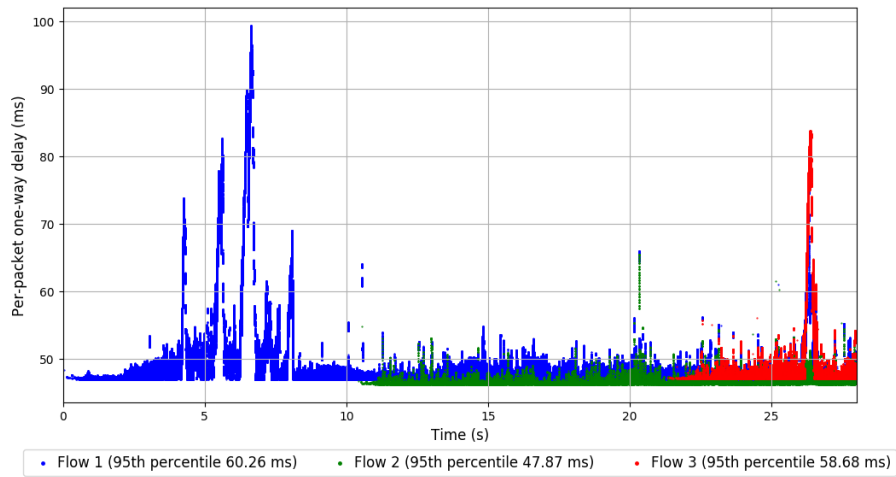
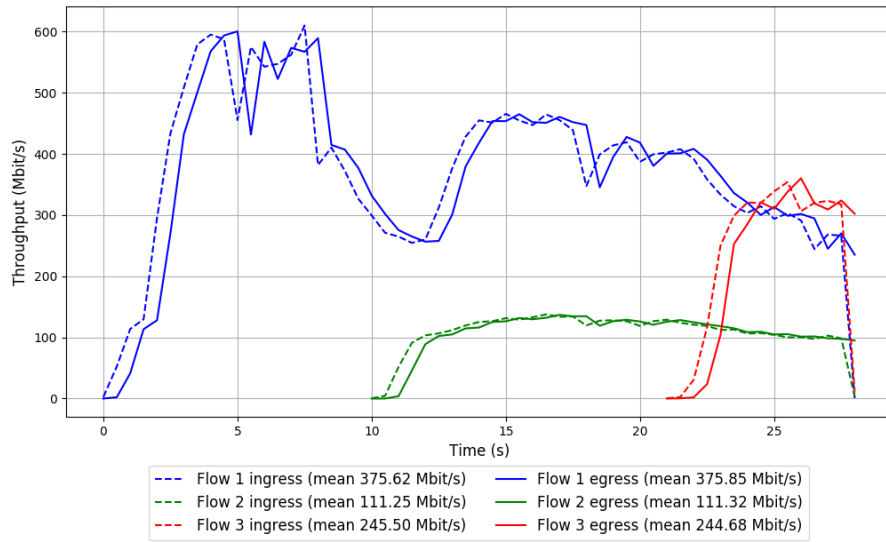
-- Flow 3:

Average throughput: 244.68 Mbit/s

95th percentile per-packet one-way delay: 58.679 ms

Loss rate: 1.78%

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



Run 2: Statistics of Indigo-MusesD

Start at: 2019-08-27 21:08:58  
End at: 2019-08-27 21:09:28  
Local clock offset: 0.235 ms  
Remote clock offset: -0.026 ms

# Below is generated by plot.py at 2019-08-28 01:02:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 590.75 Mbit/s  
95th percentile per-packet one-way delay: 65.955 ms  
Loss rate: 0.44%

-- Flow 1:

Average throughput: 358.43 Mbit/s  
95th percentile per-packet one-way delay: 69.414 ms  
Loss rate: 0.33%

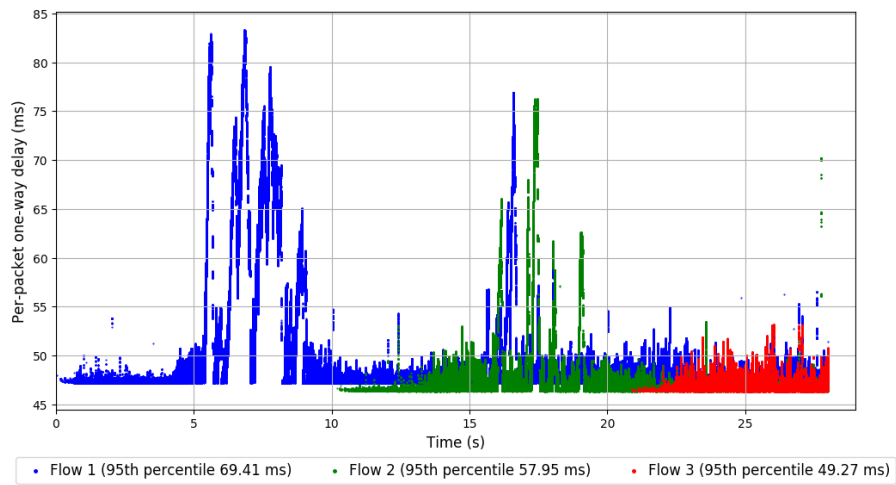
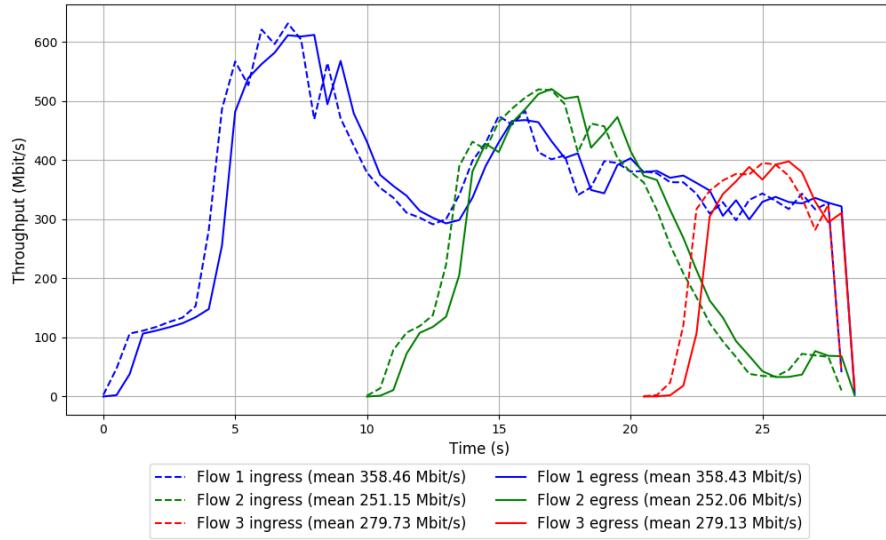
-- Flow 2:

Average throughput: 252.06 Mbit/s  
95th percentile per-packet one-way delay: 57.952 ms  
Loss rate: 0.16%

-- Flow 3:

Average throughput: 279.13 Mbit/s  
95th percentile per-packet one-way delay: 49.265 ms  
Loss rate: 1.58%

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



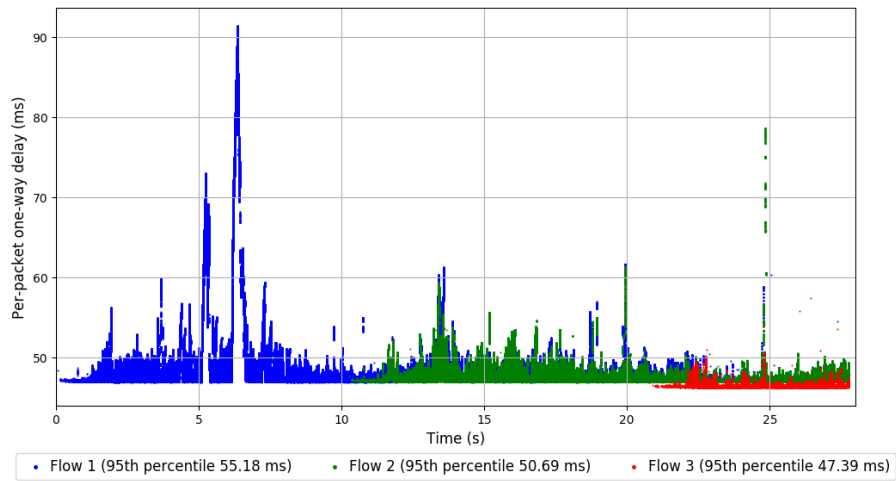
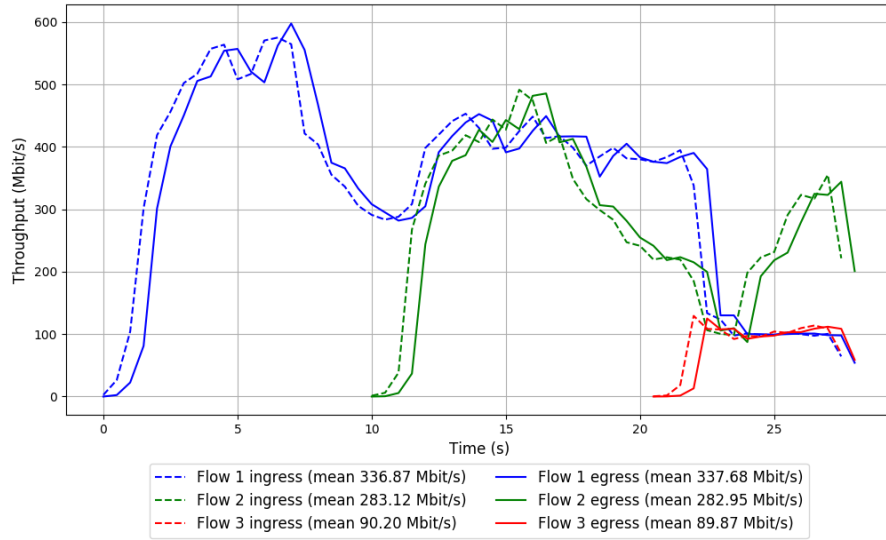


Run 3: Statistics of Indigo-MusesD

Start at: 2019-08-27 21:48:14  
End at: 2019-08-27 21:48:44  
Local clock offset: -0.059 ms  
Remote clock offset: -0.029 ms

```
# Below is generated by plot.py at 2019-08-28 01:02:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 538.66 Mbit/s
95th percentile per-packet one-way delay: 52.723 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 337.68 Mbit/s
95th percentile per-packet one-way delay: 55.179 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 282.95 Mbit/s
95th percentile per-packet one-way delay: 50.692 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 89.87 Mbit/s
95th percentile per-packet one-way delay: 47.387 ms
Loss rate: 1.73%
```

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

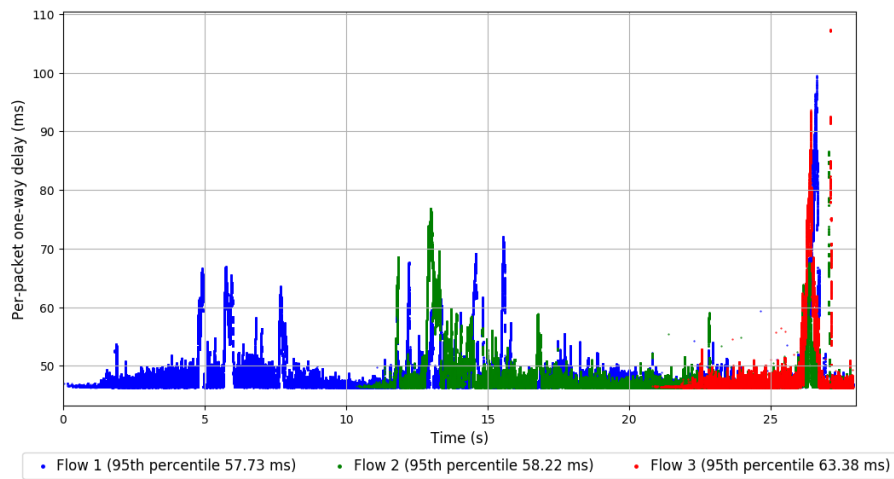
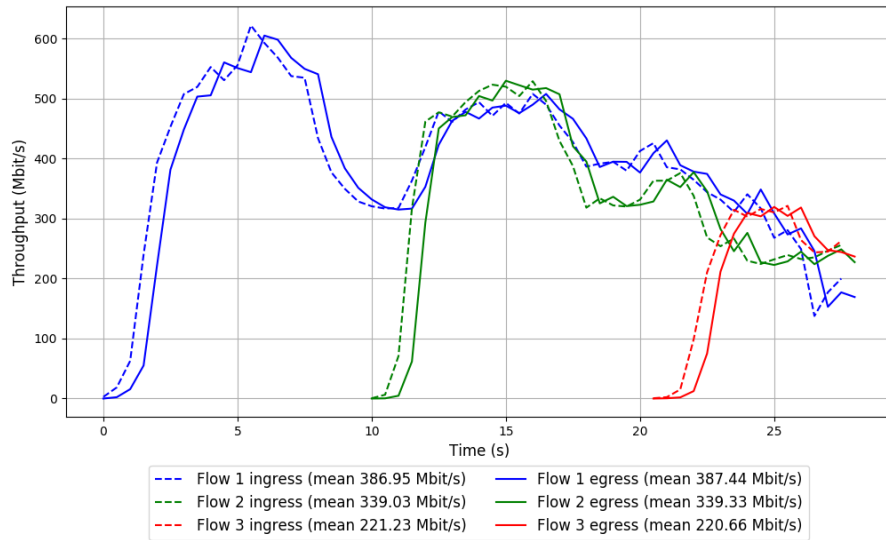


Run 4: Statistics of Indigo-MusesD

Start at: 2019-08-27 22:27:23  
End at: 2019-08-27 22:27:53  
Local clock offset: -0.105 ms  
Remote clock offset: -0.077 ms

```
# Below is generated by plot.py at 2019-08-28 01:05:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 657.20 Mbit/s
95th percentile per-packet one-way delay: 58.240 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 387.44 Mbit/s
95th percentile per-packet one-way delay: 57.733 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 339.33 Mbit/s
95th percentile per-packet one-way delay: 58.223 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 220.66 Mbit/s
95th percentile per-packet one-way delay: 63.381 ms
Loss rate: 1.58%
```

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

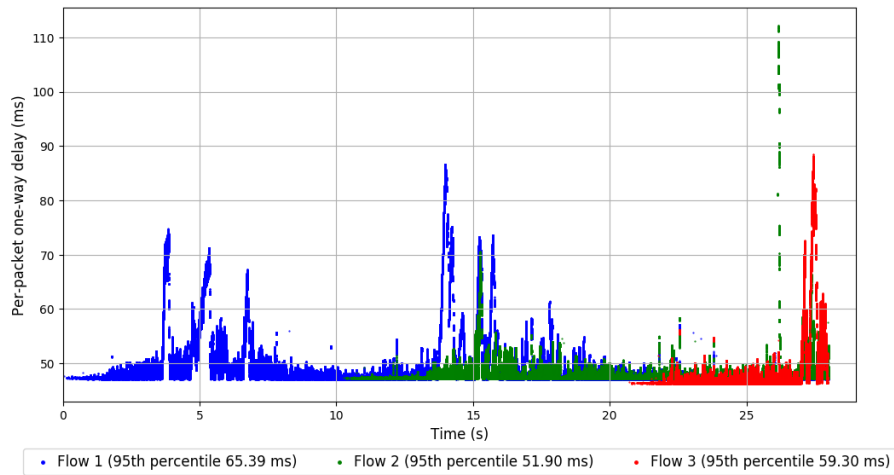
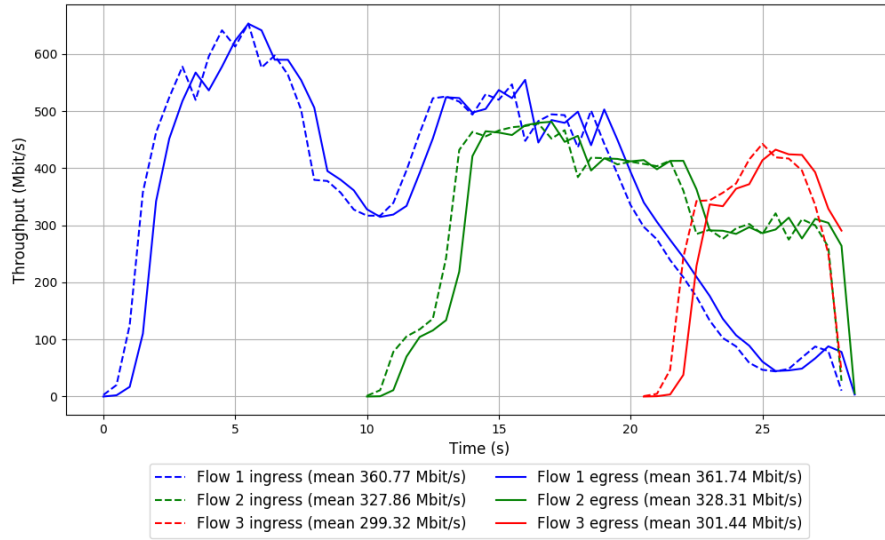


Run 5: Statistics of Indigo-MusesD

Start at: 2019-08-27 23:06:37  
End at: 2019-08-27 23:07:07  
Local clock offset: 0.006 ms  
Remote clock offset: -0.099 ms

```
# Below is generated by plot.py at 2019-08-28 01:06:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 648.55 Mbit/s
95th percentile per-packet one-way delay: 59.869 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 361.74 Mbit/s
95th percentile per-packet one-way delay: 65.387 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 328.31 Mbit/s
95th percentile per-packet one-way delay: 51.900 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 301.44 Mbit/s
95th percentile per-packet one-way delay: 59.303 ms
Loss rate: 1.09%
```

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MuseST

Start at: 2019-08-27 20:48:56  
End at: 2019-08-27 20:49:26  
Local clock offset: 0.063 ms  
Remote clock offset: -0.004 ms

# Below is generated by plot.py at 2019-08-28 01:08:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 767.84 Mbit/s  
95th percentile per-packet one-way delay: 79.680 ms  
Loss rate: 0.48%

-- Flow 1:

Average throughput: 451.53 Mbit/s  
95th percentile per-packet one-way delay: 80.762 ms  
Loss rate: 0.29%

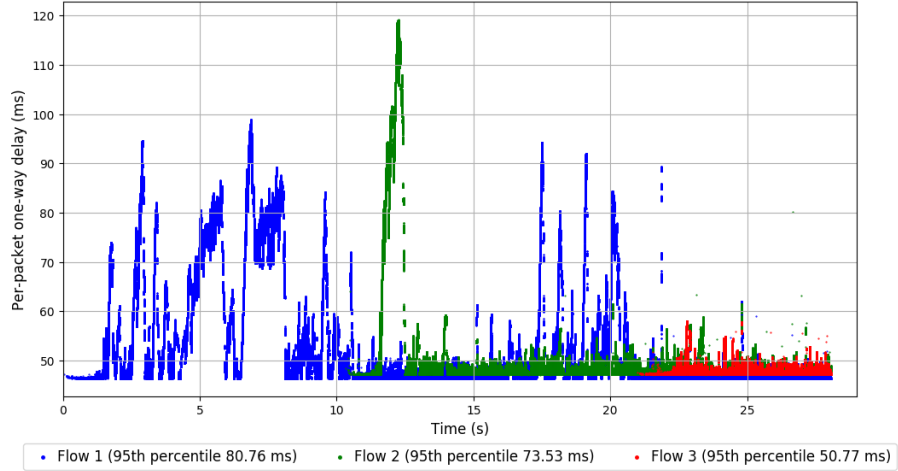
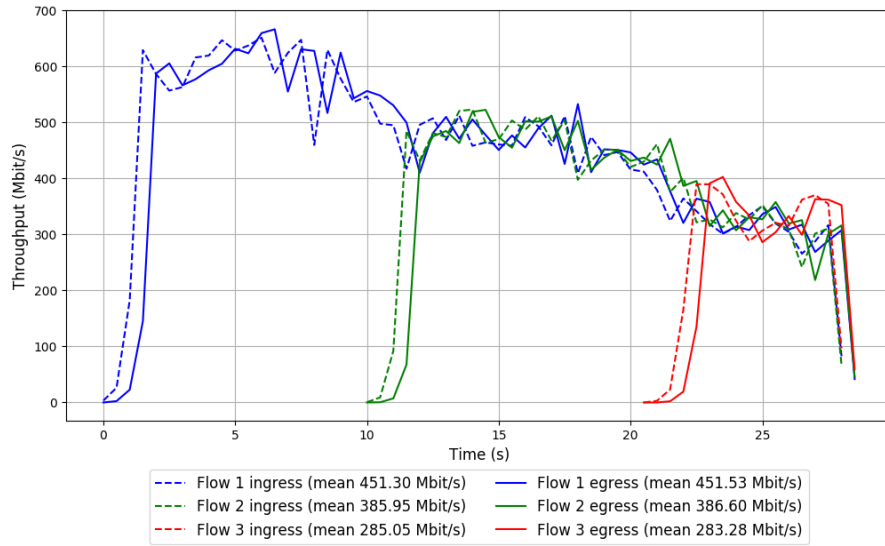
-- Flow 2:

Average throughput: 386.60 Mbit/s  
95th percentile per-packet one-way delay: 73.534 ms  
Loss rate: 0.38%

-- Flow 3:

Average throughput: 283.28 Mbit/s  
95th percentile per-packet one-way delay: 50.766 ms  
Loss rate: 1.95%

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





Run 2: Statistics of Indigo-MuseST

Start at: 2019-08-27 21:28:12  
End at: 2019-08-27 21:28:42  
Local clock offset: 0.353 ms  
Remote clock offset: -0.103 ms

# Below is generated by plot.py at 2019-08-28 01:10:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 703.92 Mbit/s  
95th percentile per-packet one-way delay: 51.625 ms  
Loss rate: 0.37%

-- Flow 1:

Average throughput: 441.78 Mbit/s  
95th percentile per-packet one-way delay: 51.303 ms  
Loss rate: 0.20%

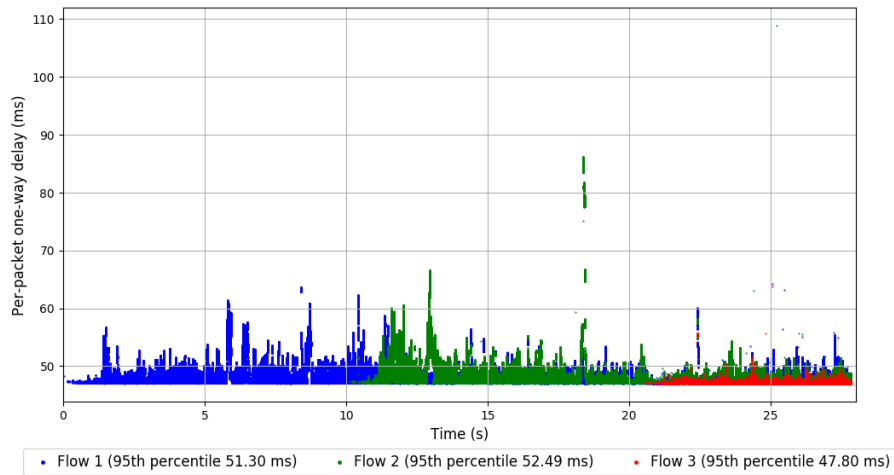
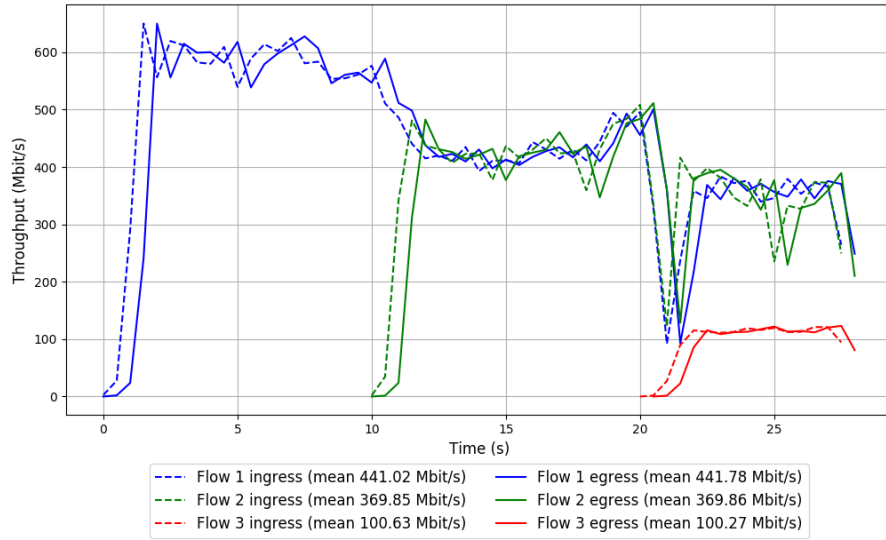
-- Flow 2:

Average throughput: 369.86 Mbit/s  
95th percentile per-packet one-way delay: 52.486 ms  
Loss rate: 0.54%

-- Flow 3:

Average throughput: 100.27 Mbit/s  
95th percentile per-packet one-way delay: 47.801 ms  
Loss rate: 1.65%

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



Run 3: Statistics of Indigo-MuseST

Start at: 2019-08-27 22:07:24  
End at: 2019-08-27 22:07:54  
Local clock offset: -0.224 ms  
Remote clock offset: -0.017 ms

# Below is generated by plot.py at 2019-08-28 01:10:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 725.61 Mbit/s  
95th percentile per-packet one-way delay: 55.853 ms  
Loss rate: 0.38%

-- Flow 1:

Average throughput: 469.37 Mbit/s  
95th percentile per-packet one-way delay: 58.520 ms  
Loss rate: 0.22%

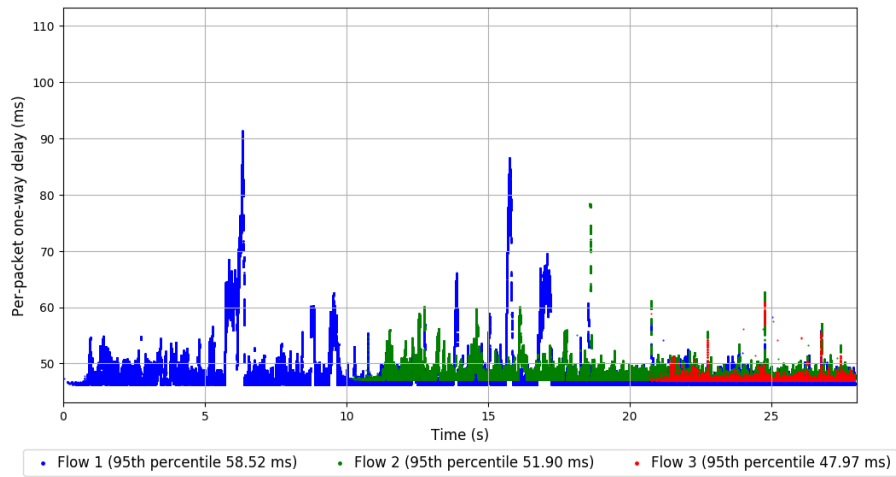
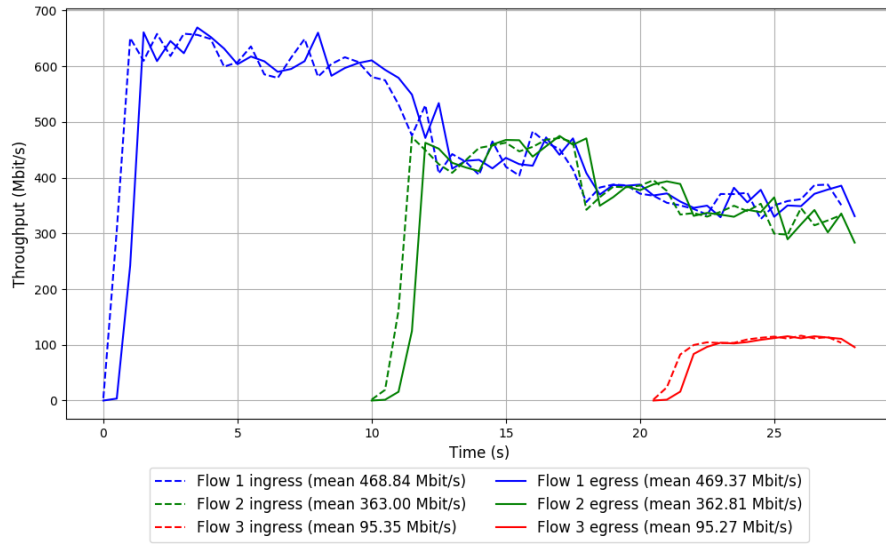
-- Flow 2:

Average throughput: 362.81 Mbit/s  
95th percentile per-packet one-way delay: 51.899 ms  
Loss rate: 0.59%

-- Flow 3:

Average throughput: 95.27 Mbit/s  
95th percentile per-packet one-way delay: 47.965 ms  
Loss rate: 1.48%

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



Run 4: Statistics of Indigo-MuseST

Start at: 2019-08-27 22:46:23  
End at: 2019-08-27 22:46:53  
Local clock offset: -0.03 ms  
Remote clock offset: -0.086 ms

# Below is generated by plot.py at 2019-08-28 01:12:28

# Datalink statistics

-- Total of 3 flows:

Average throughput: 717.34 Mbit/s  
95th percentile per-packet one-way delay: 70.933 ms  
Loss rate: 0.35%

-- Flow 1:

Average throughput: 453.47 Mbit/s  
95th percentile per-packet one-way delay: 75.134 ms  
Loss rate: 0.22%

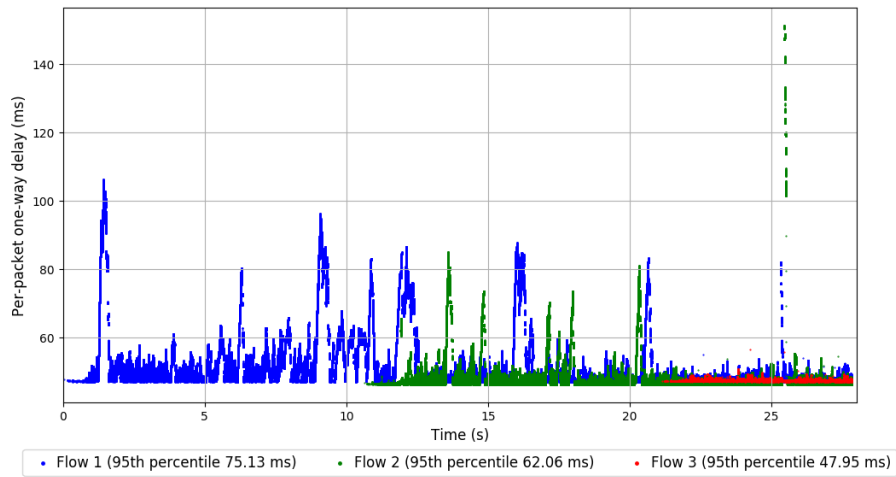
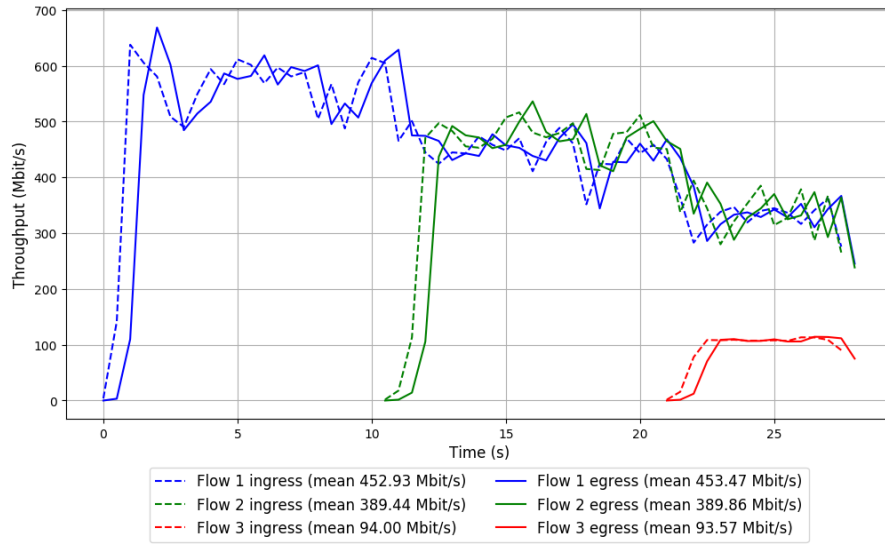
-- Flow 2:

Average throughput: 389.86 Mbit/s  
95th percentile per-packet one-way delay: 62.057 ms  
Loss rate: 0.44%

-- Flow 3:

Average throughput: 93.57 Mbit/s  
95th percentile per-packet one-way delay: 47.955 ms  
Loss rate: 1.81%

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



Run 5: Statistics of Indigo-MuseST

Start at: 2019-08-27 23:25:49  
End at: 2019-08-27 23:26:19  
Local clock offset: -0.1 ms  
Remote clock offset: -0.047 ms

# Below is generated by plot.py at 2019-08-28 01:13:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 755.00 Mbit/s  
95th percentile per-packet one-way delay: 59.948 ms  
Loss rate: 0.38%

-- Flow 1:

Average throughput: 445.74 Mbit/s  
95th percentile per-packet one-way delay: 62.715 ms  
Loss rate: 0.22%

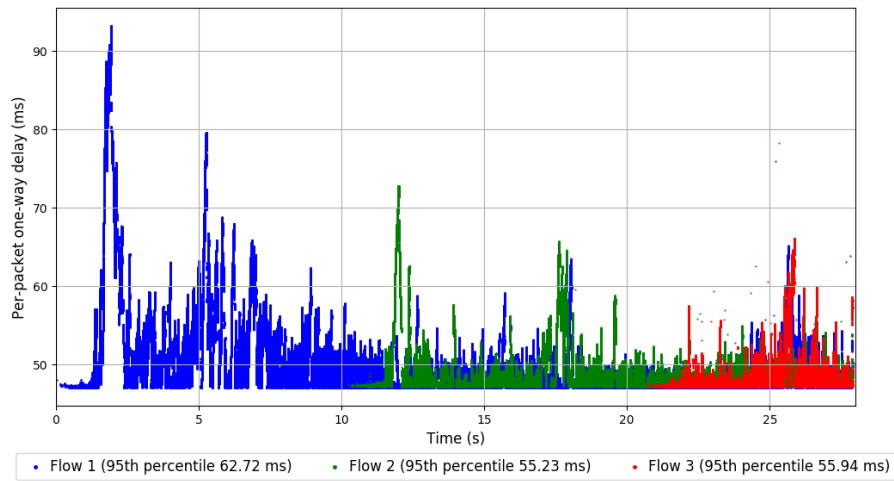
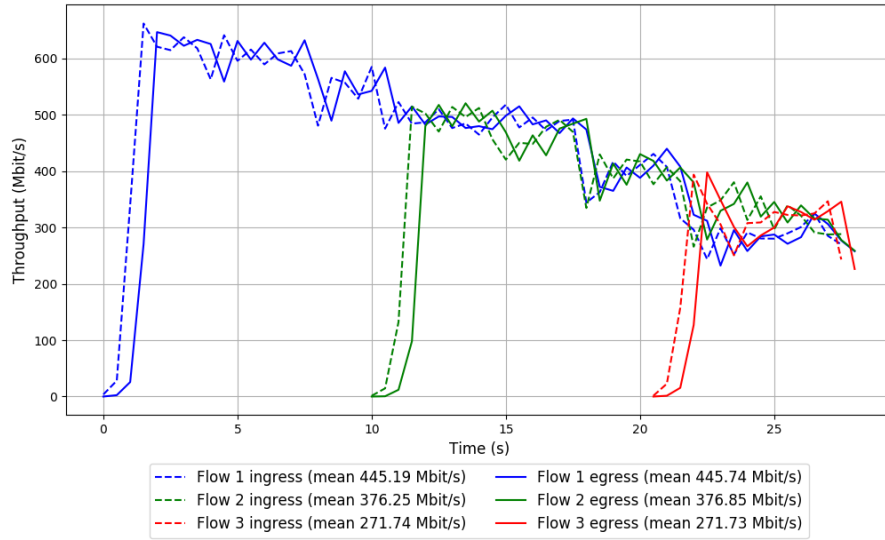
-- Flow 2:

Average throughput: 376.85 Mbit/s  
95th percentile per-packet one-way delay: 55.229 ms  
Loss rate: 0.38%

-- Flow 3:

Average throughput: 271.73 Mbit/s  
95th percentile per-packet one-way delay: 55.940 ms  
Loss rate: 1.32%

Run 5: Report of Indigo-MusesT — Data Link





Run 1: Statistics of LEDBAT

Start at: 2019-08-27 20:47:40  
End at: 2019-08-27 20:48:10  
Local clock offset: 0.057 ms  
Remote clock offset: -0.034 ms

# Below is generated by plot.py at 2019-08-28 01:13:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 58.43 Mbit/s  
95th percentile per-packet one-way delay: 48.510 ms  
Loss rate: 0.47%

-- Flow 1:

Average throughput: 36.01 Mbit/s  
95th percentile per-packet one-way delay: 48.701 ms  
Loss rate: 0.05%

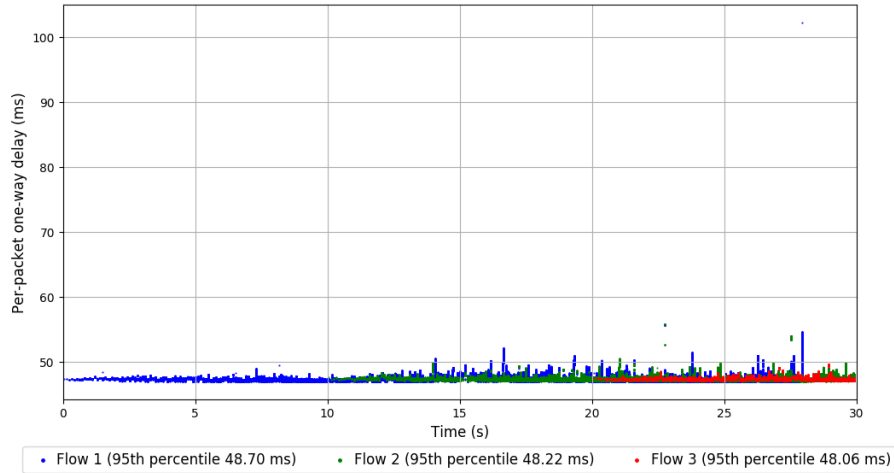
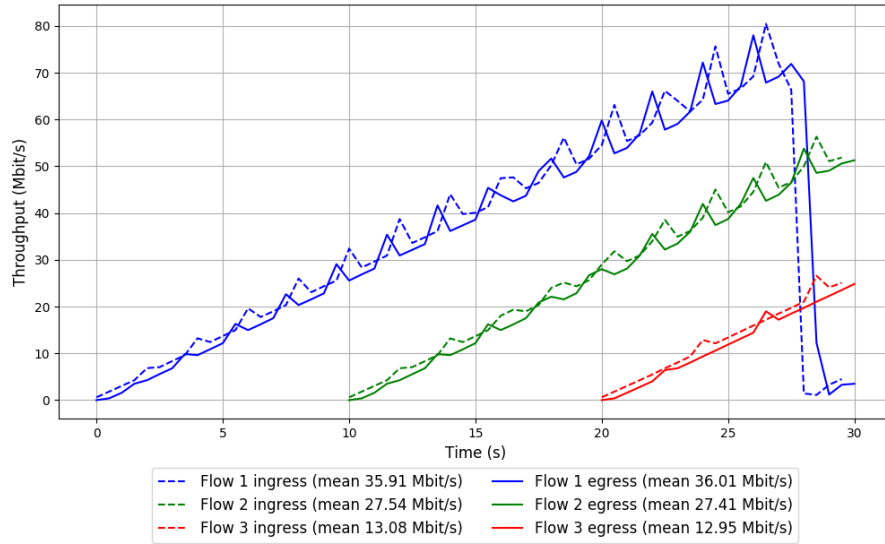
-- Flow 2:

Average throughput: 27.41 Mbit/s  
95th percentile per-packet one-way delay: 48.219 ms  
Loss rate: 0.95%

-- Flow 3:

Average throughput: 12.95 Mbit/s  
95th percentile per-packet one-way delay: 48.063 ms  
Loss rate: 1.96%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-08-27 21:26:55

End at: 2019-08-27 21:27:25

Local clock offset: 0.35 ms

Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2019-08-28 01:13:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 64.83 Mbit/s

95th percentile per-packet one-way delay: 47.916 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 41.70 Mbit/s

95th percentile per-packet one-way delay: 48.025 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 27.94 Mbit/s

95th percentile per-packet one-way delay: 46.979 ms

Loss rate: 0.94%

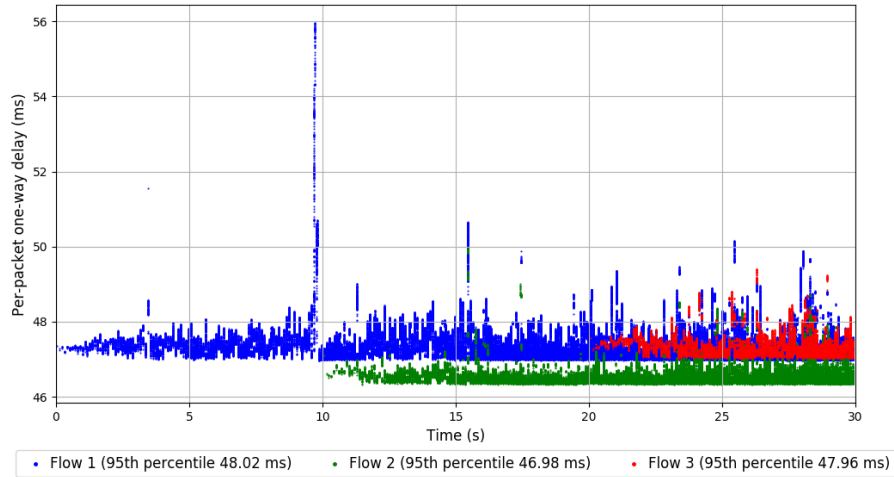
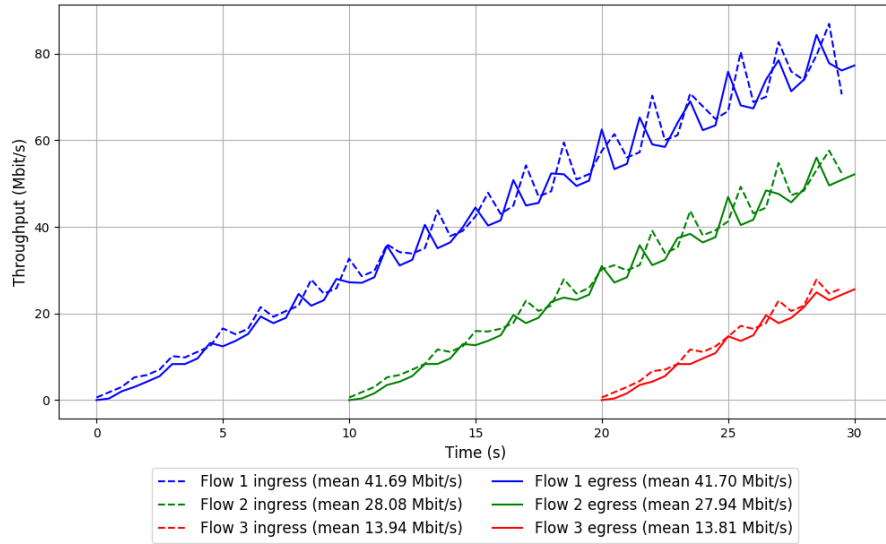
-- Flow 3:

Average throughput: 13.81 Mbit/s

95th percentile per-packet one-way delay: 47.964 ms

Loss rate: 1.90%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2019-08-27 22:06:07  
End at: 2019-08-27 22:06:37  
Local clock offset: -0.197 ms  
Remote clock offset: -0.007 ms

# Below is generated by plot.py at 2019-08-28 01:13:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 63.49 Mbit/s  
95th percentile per-packet one-way delay: 48.345 ms  
Loss rate: 0.81%

-- Flow 1:

Average throughput: 40.84 Mbit/s  
95th percentile per-packet one-way delay: 48.378 ms  
Loss rate: 0.63%

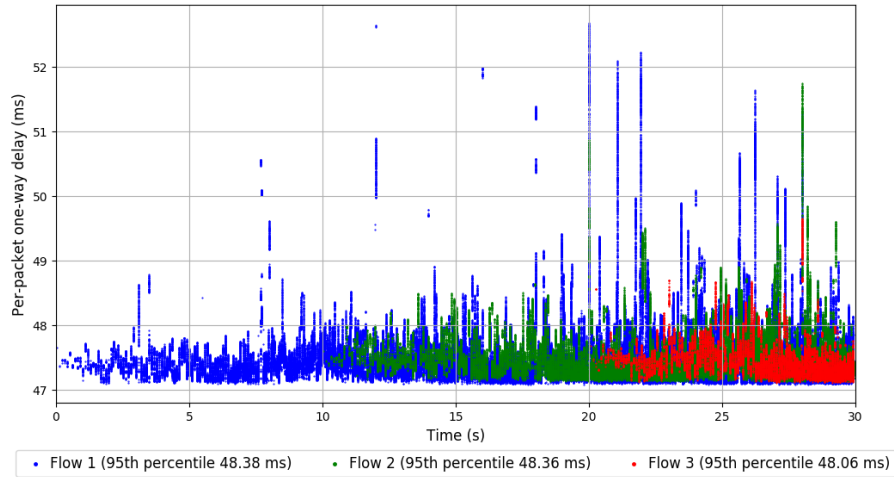
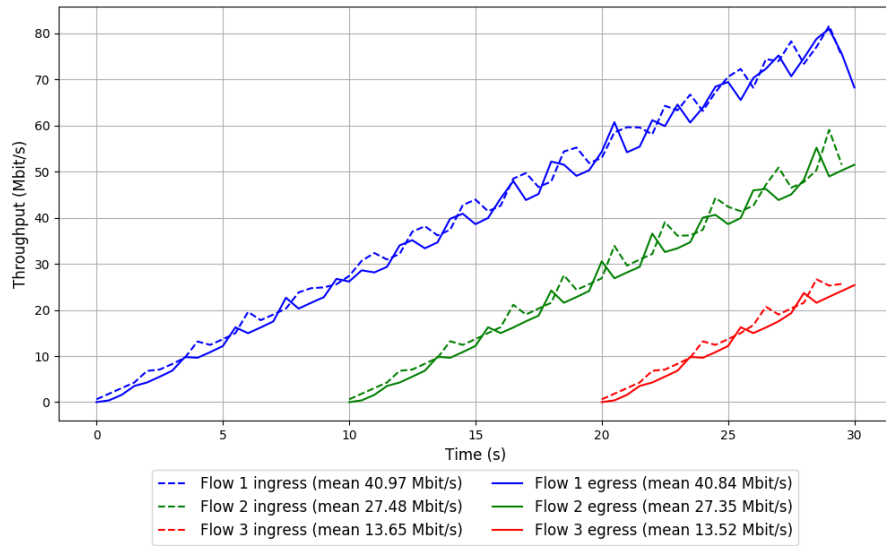
-- Flow 2:

Average throughput: 27.35 Mbit/s  
95th percentile per-packet one-way delay: 48.362 ms  
Loss rate: 0.93%

-- Flow 3:

Average throughput: 13.52 Mbit/s  
95th percentile per-packet one-way delay: 48.060 ms  
Loss rate: 1.93%

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



Run 4: Statistics of LEDBAT

Start at: 2019-08-27 22:45:07  
End at: 2019-08-27 22:45:37  
Local clock offset: -0.053 ms  
Remote clock offset: -0.099 ms

# Below is generated by plot.py at 2019-08-28 01:13:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 63.82 Mbit/s  
95th percentile per-packet one-way delay: 48.057 ms  
Loss rate: 0.81%

-- Flow 1:

Average throughput: 40.75 Mbit/s  
95th percentile per-packet one-way delay: 48.231 ms  
Loss rate: 0.63%

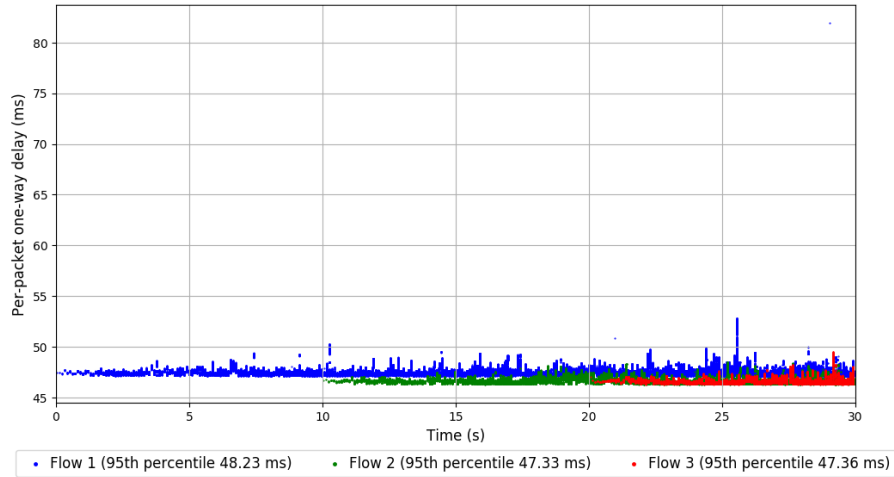
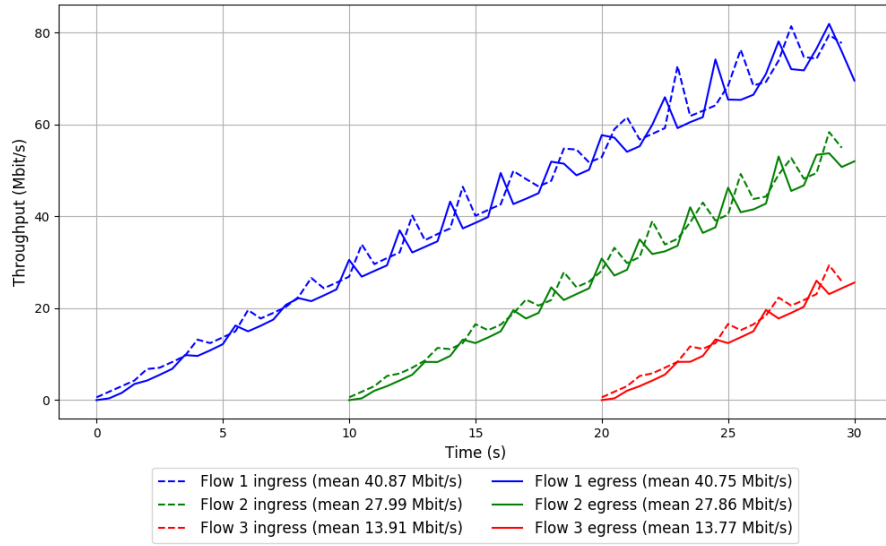
-- Flow 2:

Average throughput: 27.86 Mbit/s  
95th percentile per-packet one-way delay: 47.334 ms  
Loss rate: 0.94%

-- Flow 3:

Average throughput: 13.77 Mbit/s  
95th percentile per-packet one-way delay: 47.362 ms  
Loss rate: 1.91%

Run 4: Report of LEDBAT — Data Link





Run 5: Statistics of LEDBAT

Start at: 2019-08-27 23:24:32  
End at: 2019-08-27 23:25:02  
Local clock offset: -0.103 ms  
Remote clock offset: -0.109 ms

# Below is generated by plot.py at 2019-08-28 01:13:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 64.10 Mbit/s  
95th percentile per-packet one-way delay: 47.942 ms  
Loss rate: 0.81%

-- Flow 1:

Average throughput: 41.48 Mbit/s  
95th percentile per-packet one-way delay: 47.635 ms  
Loss rate: 0.62%

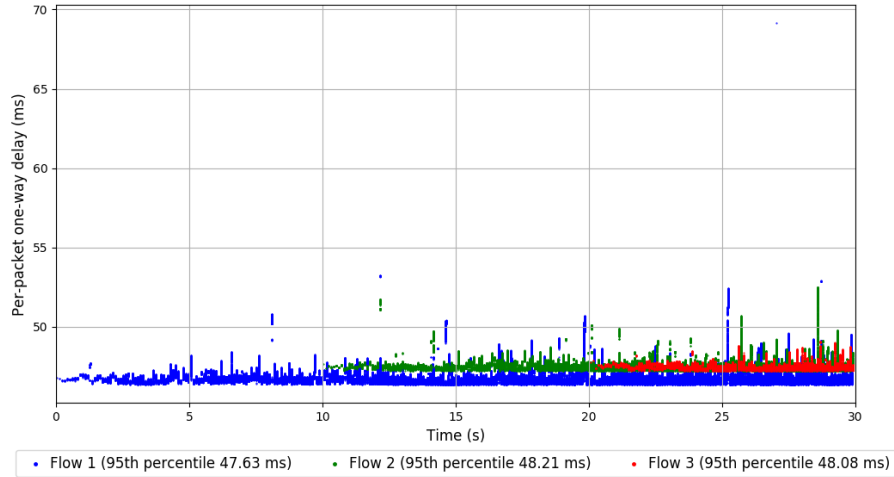
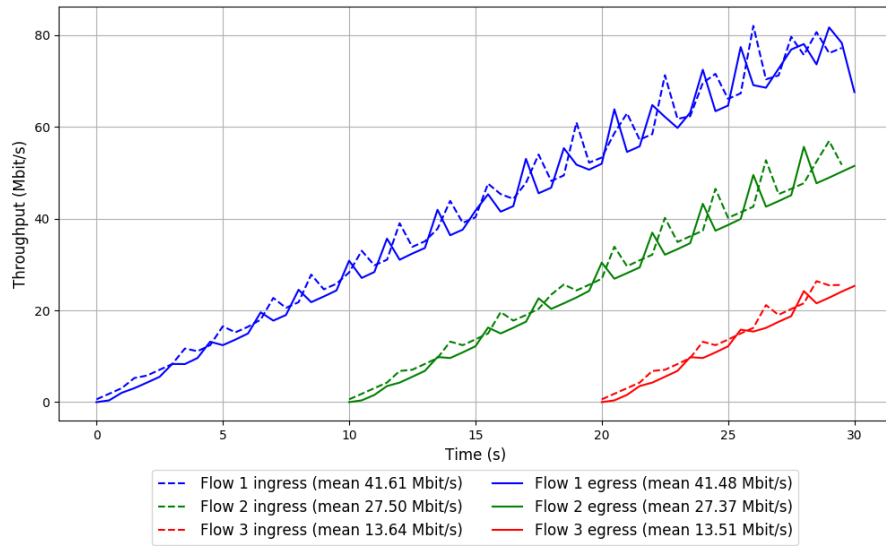
-- Flow 2:

Average throughput: 27.37 Mbit/s  
95th percentile per-packet one-way delay: 48.209 ms  
Loss rate: 0.95%

-- Flow 3:

Average throughput: 13.51 Mbit/s  
95th percentile per-packet one-way delay: 48.082 ms  
Loss rate: 1.92%

### Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of Muses\\_DecisionTree

Start at: 2019-08-27 20:50:41  
End at: 2019-08-27 20:51:11  
Local clock offset: 0.084 ms  
Remote clock offset: -0.013 ms

# Below is generated by plot.py at 2019-08-28 01:18:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 683.88 Mbit/s  
95th percentile per-packet one-way delay: 54.019 ms  
Loss rate: 0.38%

-- Flow 1:

Average throughput: 400.55 Mbit/s  
95th percentile per-packet one-way delay: 55.899 ms  
Loss rate: 0.24%

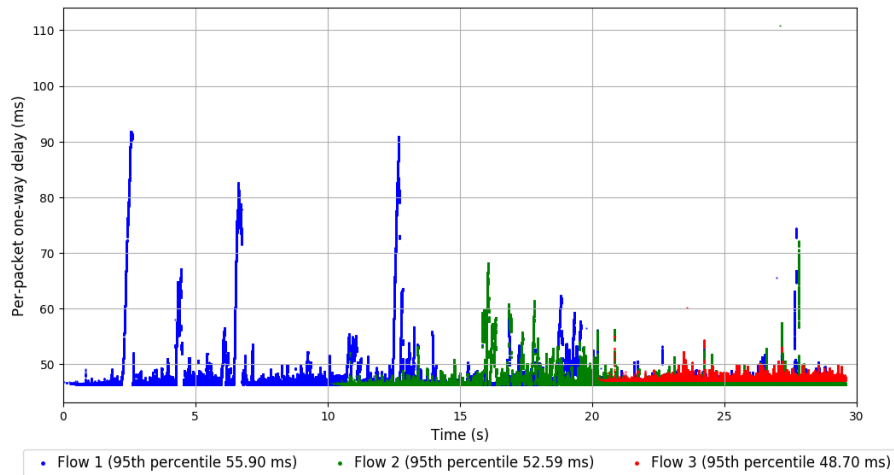
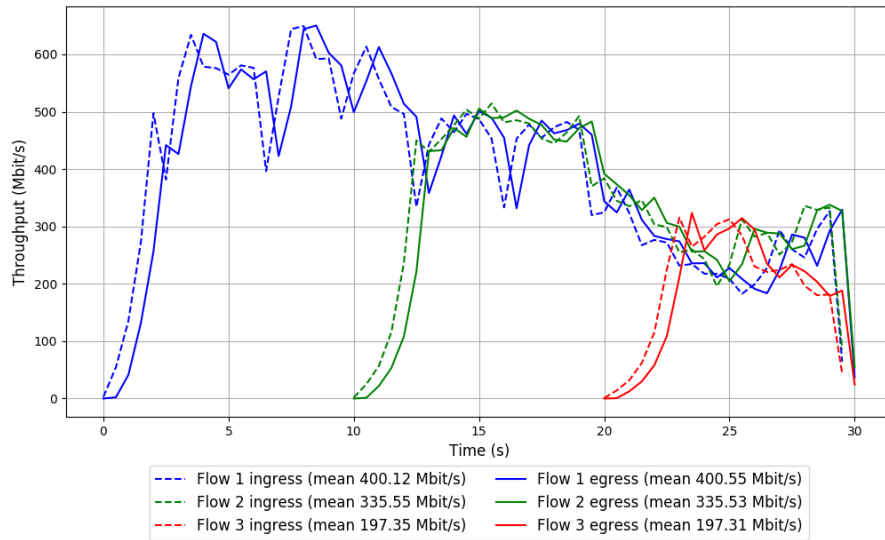
-- Flow 2:

Average throughput: 335.53 Mbit/s  
95th percentile per-packet one-way delay: 52.595 ms  
Loss rate: 0.49%

-- Flow 3:

Average throughput: 197.31 Mbit/s  
95th percentile per-packet one-way delay: 48.703 ms  
Loss rate: 0.89%

Run 1: Report of Muses\_DecisionTree — Data Link



Run 2: Statistics of Muses\\_DecisionTree

Start at: 2019-08-27 21:29:54  
End at: 2019-08-27 21:30:24  
Local clock offset: 0.348 ms  
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2019-08-28 01:18:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 638.99 Mbit/s  
95th percentile per-packet one-way delay: 64.459 ms  
Loss rate: 0.35%

-- Flow 1:

Average throughput: 383.00 Mbit/s  
95th percentile per-packet one-way delay: 68.472 ms  
Loss rate: 0.09%

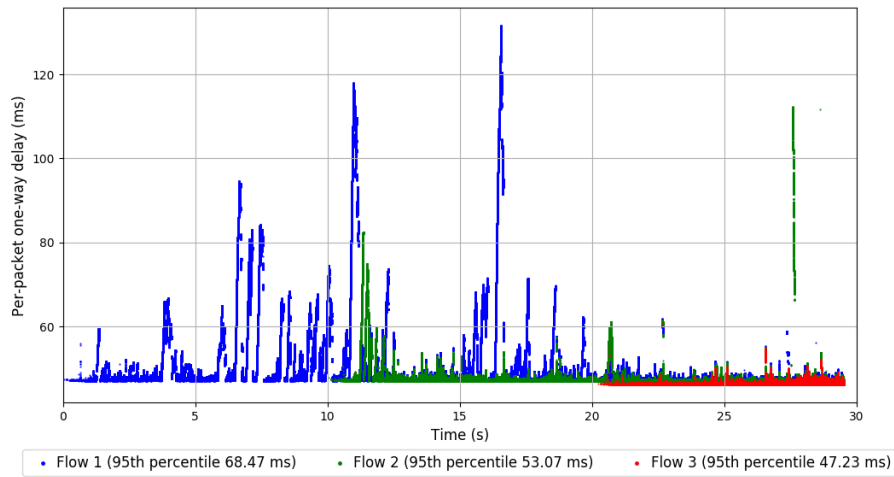
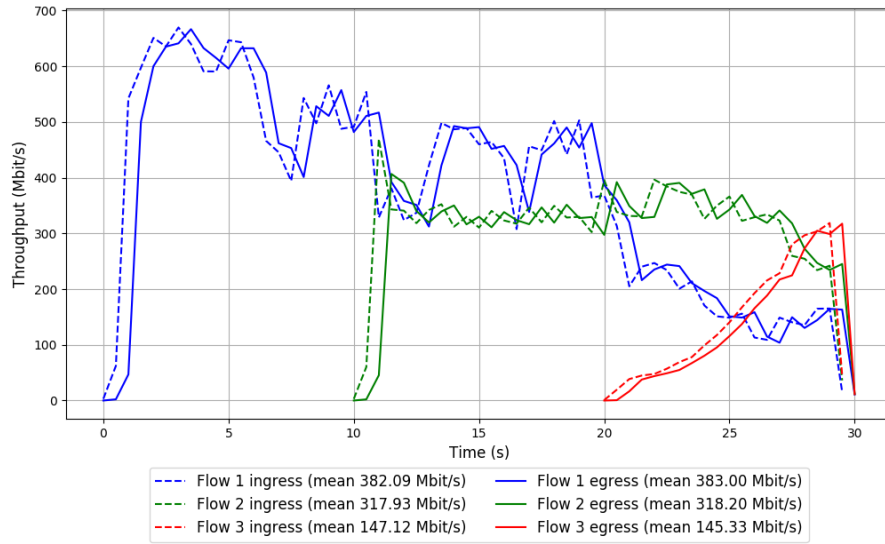
-- Flow 2:

Average throughput: 318.20 Mbit/s  
95th percentile per-packet one-way delay: 53.071 ms  
Loss rate: 0.40%

-- Flow 3:

Average throughput: 145.33 Mbit/s  
95th percentile per-packet one-way delay: 47.235 ms  
Loss rate: 2.21%

Run 2: Report of Muses\_DecisionTree — Data Link



Run 3: Statistics of Muses\\_DecisionTree

Start at: 2019-08-27 22:09:07  
End at: 2019-08-27 22:09:37  
Local clock offset: -0.171 ms  
Remote clock offset: -0.032 ms

# Below is generated by plot.py at 2019-08-28 01:18:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 655.70 Mbit/s  
95th percentile per-packet one-way delay: 52.237 ms  
Loss rate: 0.34%

-- Flow 1:

Average throughput: 375.37 Mbit/s  
95th percentile per-packet one-way delay: 54.770 ms  
Loss rate: 0.20%

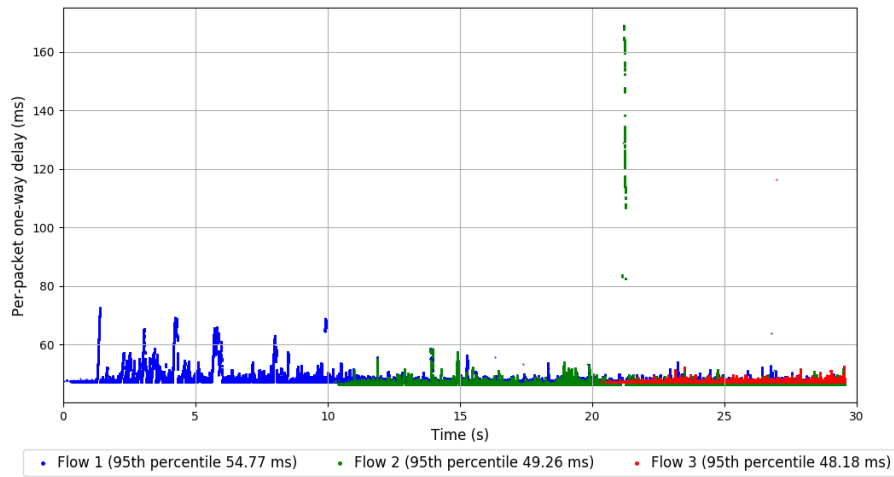
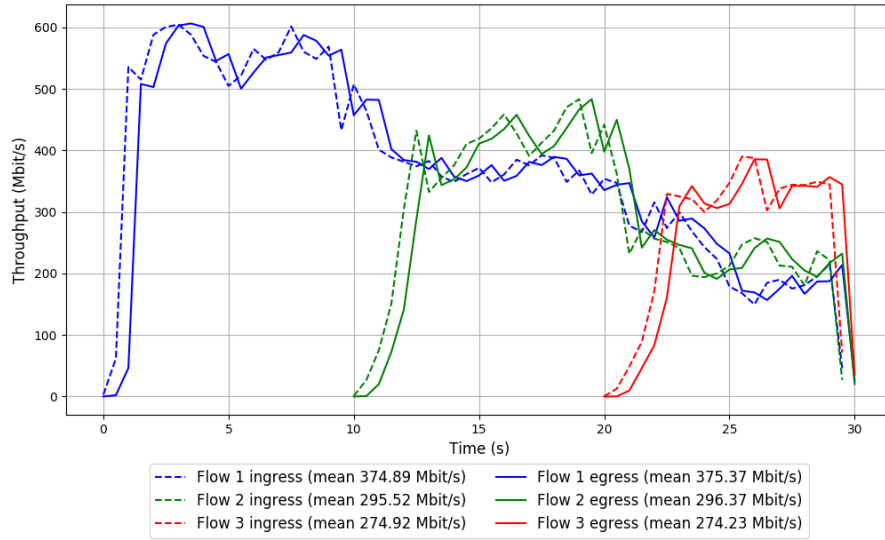
-- Flow 2:

Average throughput: 296.37 Mbit/s  
95th percentile per-packet one-way delay: 49.261 ms  
Loss rate: 0.21%

-- Flow 3:

Average throughput: 274.23 Mbit/s  
95th percentile per-packet one-way delay: 48.181 ms  
Loss rate: 1.27%

Run 3: Report of Muses\_DecisionTree — Data Link





Run 4: Statistics of Muses\\_DecisionTree

Start at: 2019-08-27 22:48:06

End at: 2019-08-27 22:48:36

Local clock offset: 0.31 ms

Remote clock offset: -0.08 ms

# Below is generated by plot.py at 2019-08-28 01:19:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 709.43 Mbit/s

95th percentile per-packet one-way delay: 67.732 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 415.86 Mbit/s

95th percentile per-packet one-way delay: 72.476 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 321.99 Mbit/s

95th percentile per-packet one-way delay: 61.495 ms

Loss rate: 0.24%

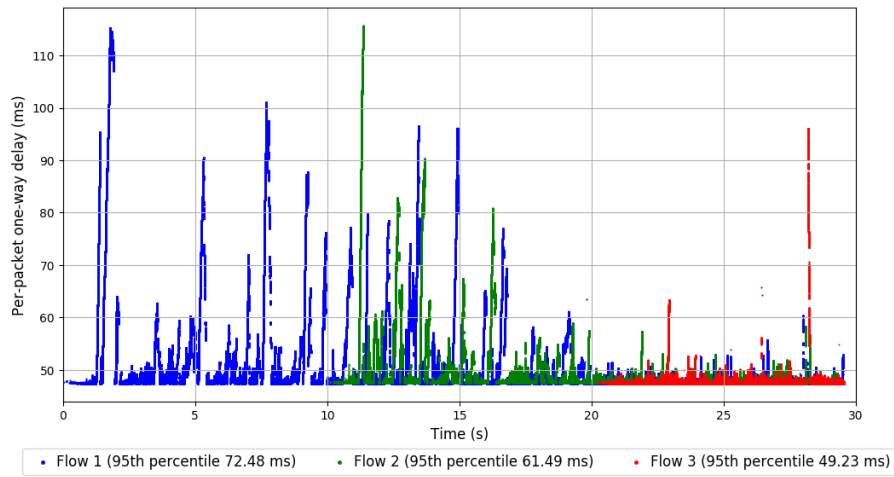
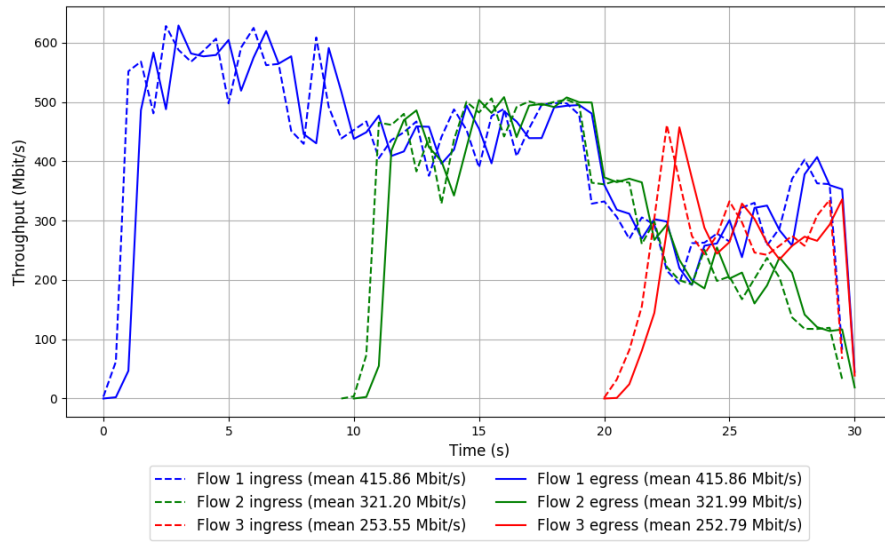
-- Flow 3:

Average throughput: 252.79 Mbit/s

95th percentile per-packet one-way delay: 49.231 ms

Loss rate: 1.29%

Run 4: Report of Muses\_DecisionTree — Data Link

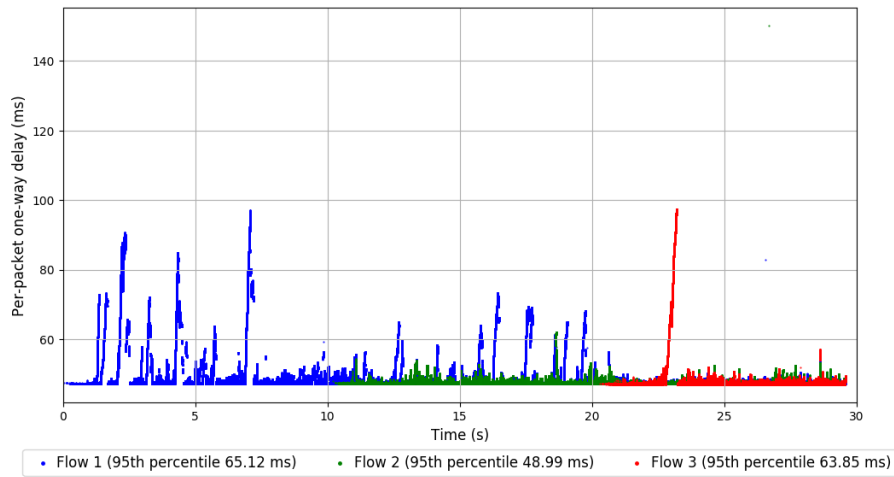
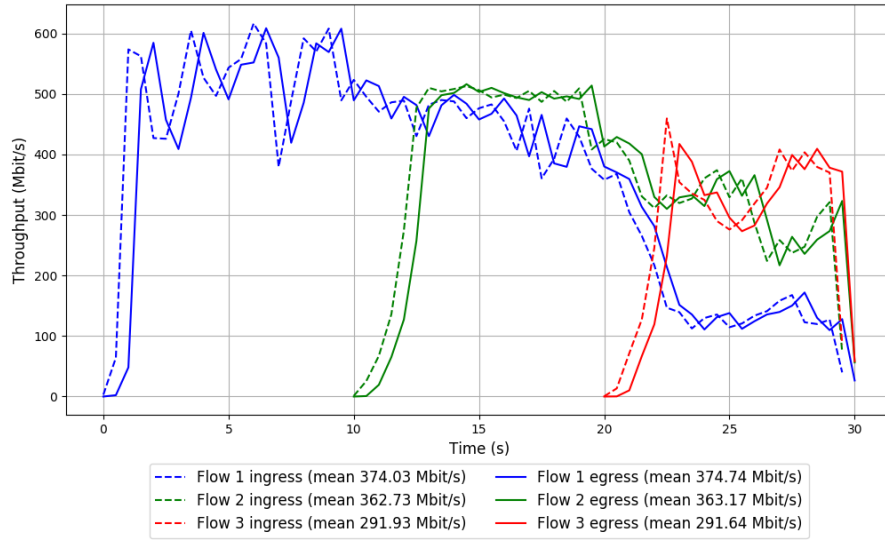


Run 5: Statistics of Muses\\_DecisionTree

Start at: 2019-08-27 23:27:33  
End at: 2019-08-27 23:28:03  
Local clock offset: -0.159 ms  
Remote clock offset: -0.087 ms

# Below is generated by plot.py at 2019-08-28 01:21:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 704.76 Mbit/s  
95th percentile per-packet one-way delay: 60.525 ms  
Loss rate: 0.35%  
-- Flow 1:  
Average throughput: 374.74 Mbit/s  
95th percentile per-packet one-way delay: 65.118 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 363.17 Mbit/s  
95th percentile per-packet one-way delay: 48.991 ms  
Loss rate: 0.38%  
-- Flow 3:  
Average throughput: 291.64 Mbit/s  
95th percentile per-packet one-way delay: 63.855 ms  
Loss rate: 1.15%

Run 5: Report of Muses\_DecisionTree — Data Link



Run 1: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-08-27 20:57:42  
End at: 2019-08-27 20:58:12  
Local clock offset: 0.15 ms  
Remote clock offset: -0.007 ms

# Below is generated by plot.py at 2019-08-28 01:21:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 604.74 Mbit/s  
95th percentile per-packet one-way delay: 83.450 ms  
Loss rate: 0.52%

-- Flow 1:

Average throughput: 304.17 Mbit/s  
95th percentile per-packet one-way delay: 89.955 ms  
Loss rate: 0.36%

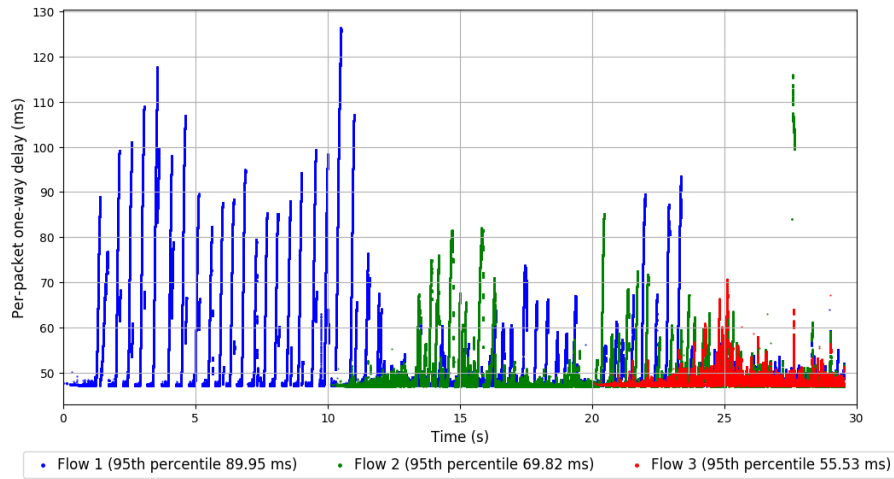
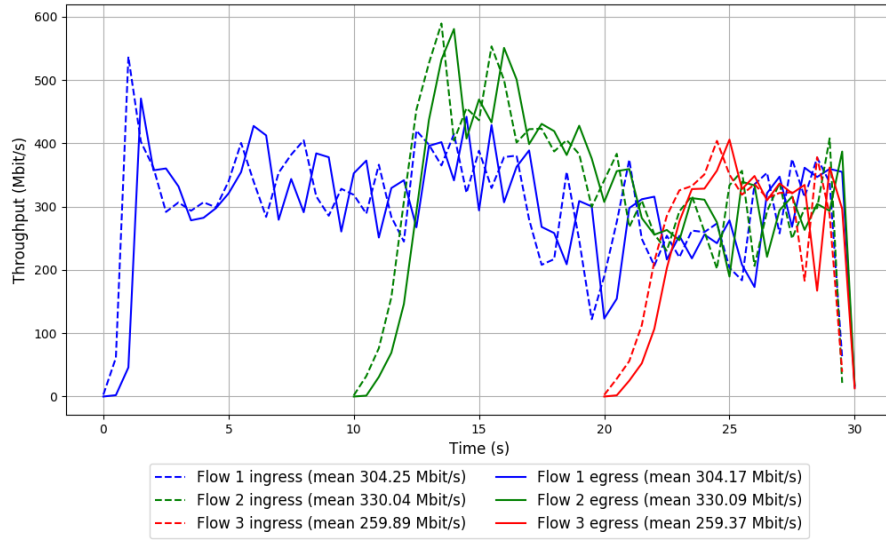
-- Flow 2:

Average throughput: 330.09 Mbit/s  
95th percentile per-packet one-way delay: 69.819 ms  
Loss rate: 0.48%

-- Flow 3:

Average throughput: 259.37 Mbit/s  
95th percentile per-packet one-way delay: 55.532 ms  
Loss rate: 1.22%

Run 1: Report of Muses\_DecisionTreeH0 — Data Link



Run 2: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-08-27 21:36:53  
End at: 2019-08-27 21:37:23  
Local clock offset: 0.272 ms  
Remote clock offset: -0.069 ms

# Below is generated by plot.py at 2019-08-28 01:21:43

# Datalink statistics

-- Total of 3 flows:

Average throughput: 577.04 Mbit/s  
95th percentile per-packet one-way delay: 88.060 ms  
Loss rate: 0.37%

-- Flow 1:

Average throughput: 318.61 Mbit/s  
95th percentile per-packet one-way delay: 93.478 ms  
Loss rate: 0.25%

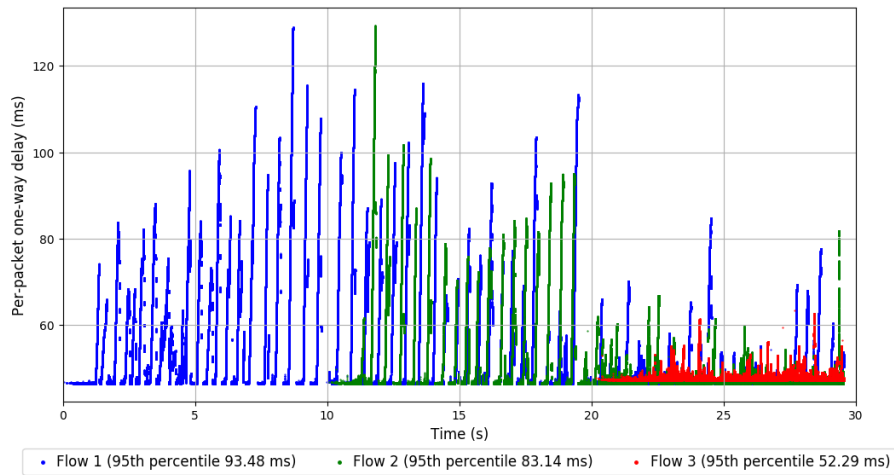
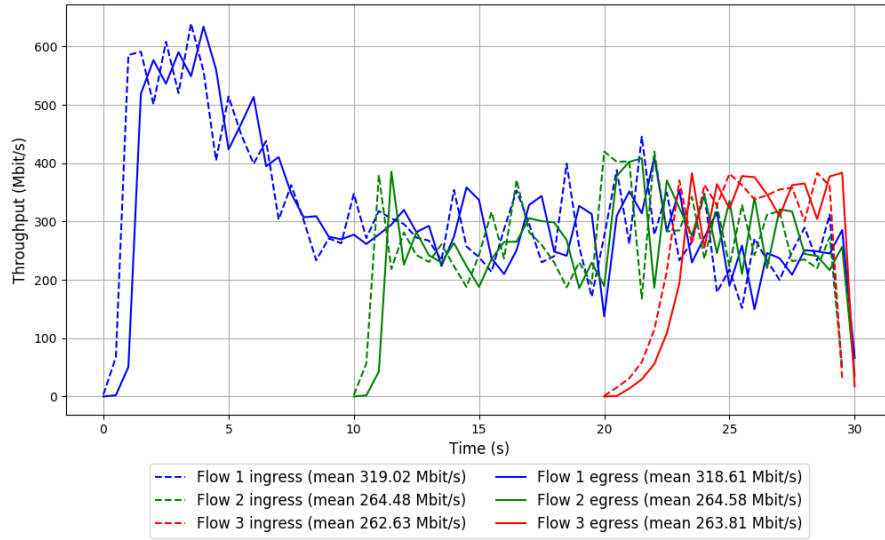
-- Flow 2:

Average throughput: 264.58 Mbit/s  
95th percentile per-packet one-way delay: 83.145 ms  
Loss rate: 0.48%

-- Flow 3:

Average throughput: 263.81 Mbit/s  
95th percentile per-packet one-way delay: 52.289 ms  
Loss rate: 0.56%

Run 2: Report of Muses\_DecisionTreeH0 — Data Link





Run 3: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-08-27 22:16:05  
End at: 2019-08-27 22:16:36  
Local clock offset: -0.139 ms  
Remote clock offset: -0.042 ms

# Below is generated by plot.py at 2019-08-28 01:22:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 555.15 Mbit/s  
95th percentile per-packet one-way delay: 90.618 ms  
Loss rate: 0.74%

-- Flow 1:

Average throughput: 289.03 Mbit/s  
95th percentile per-packet one-way delay: 94.675 ms  
Loss rate: 0.65%

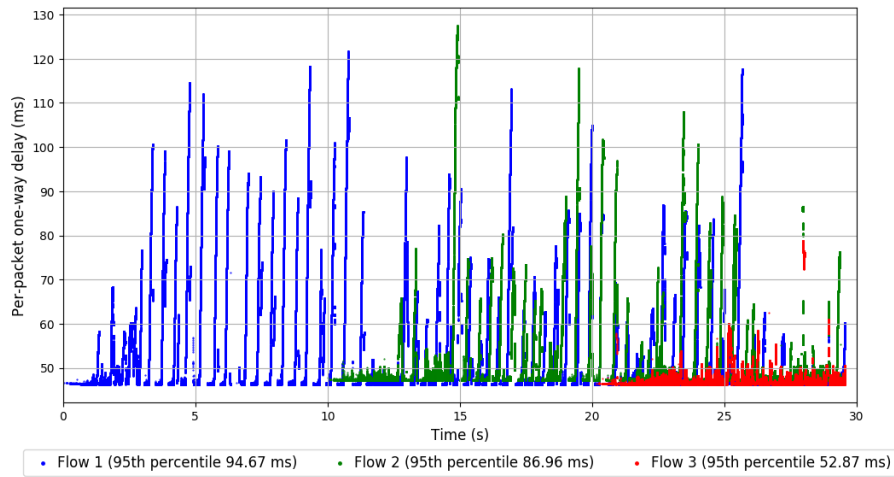
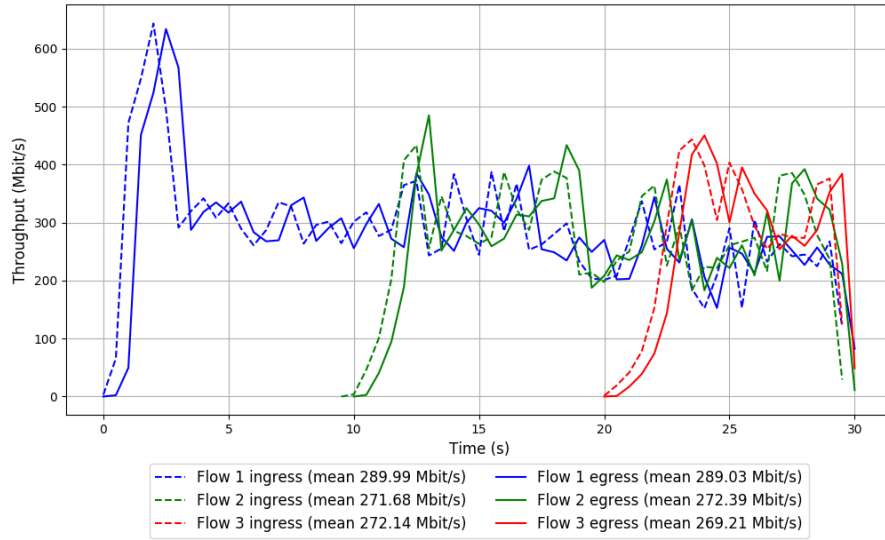
-- Flow 2:

Average throughput: 272.39 Mbit/s  
95th percentile per-packet one-way delay: 86.963 ms  
Loss rate: 0.24%

-- Flow 3:

Average throughput: 269.21 Mbit/s  
95th percentile per-packet one-way delay: 52.867 ms  
Loss rate: 2.06%

Run 3: Report of Muses\_DecisionTreeH0 — Data Link



Run 4: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-08-27 22:55:05

End at: 2019-08-27 22:55:35

Local clock offset: 0.003 ms

Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2019-08-28 01:26:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 580.15 Mbit/s

95th percentile per-packet one-way delay: 86.715 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 290.96 Mbit/s

95th percentile per-packet one-way delay: 93.212 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 324.95 Mbit/s

95th percentile per-packet one-way delay: 73.943 ms

Loss rate: 0.67%

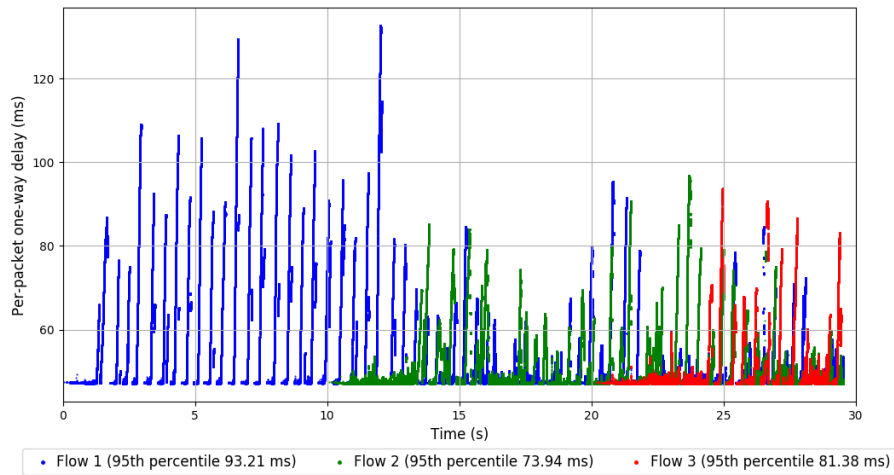
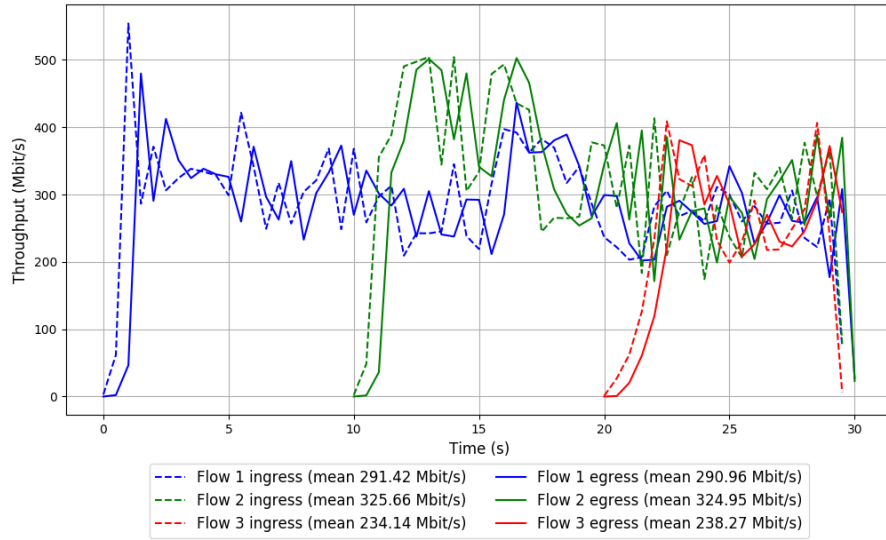
-- Flow 3:

Average throughput: 238.27 Mbit/s

95th percentile per-packet one-way delay: 81.379 ms

Loss rate: 0.14%

Run 4: Report of Muses\_DecisionTreeH0 — Data Link



Run 5: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-08-27 23:34:33  
End at: 2019-08-27 23:35:03  
Local clock offset: -0.142 ms  
Remote clock offset: -0.053 ms

# Below is generated by plot.py at 2019-08-28 01:26:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 547.91 Mbit/s  
95th percentile per-packet one-way delay: 94.016 ms  
Loss rate: 0.35%

-- Flow 1:

Average throughput: 279.30 Mbit/s  
95th percentile per-packet one-way delay: 99.297 ms  
Loss rate: 0.04%

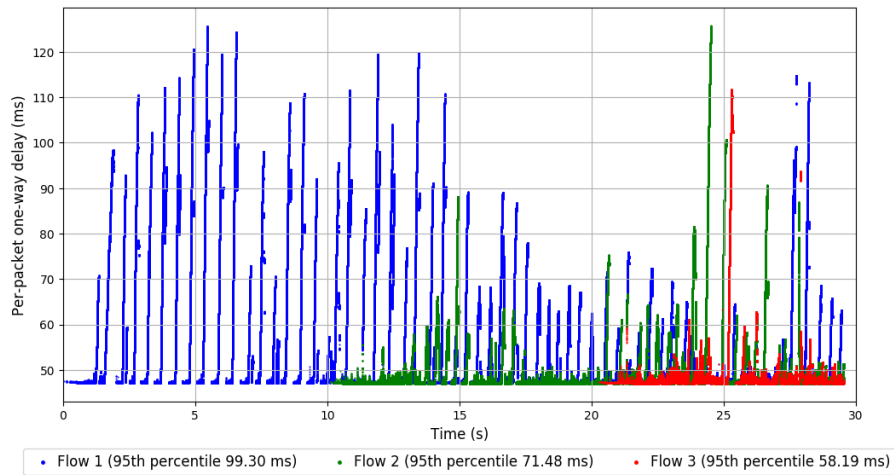
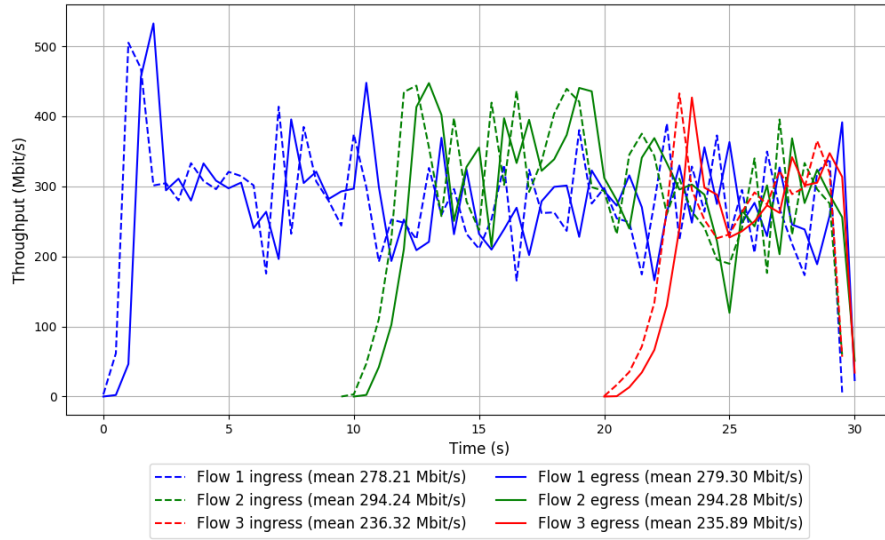
-- Flow 2:

Average throughput: 294.28 Mbit/s  
95th percentile per-packet one-way delay: 71.479 ms  
Loss rate: 0.47%

-- Flow 3:

Average throughput: 235.89 Mbit/s  
95th percentile per-packet one-way delay: 58.190 ms  
Loss rate: 1.19%

Run 5: Report of Muses\_DecisionTreeH0 — Data Link



Run 1: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-08-27 20:22:09  
End at: 2019-08-27 20:22:39  
Local clock offset: -0.598 ms  
Remote clock offset: -0.032 ms

# Below is generated by plot.py at 2019-08-28 01:27:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 593.23 Mbit/s  
95th percentile per-packet one-way delay: 55.007 ms  
Loss rate: 0.36%

-- Flow 1:

Average throughput: 340.65 Mbit/s  
95th percentile per-packet one-way delay: 61.214 ms  
Loss rate: 0.18%

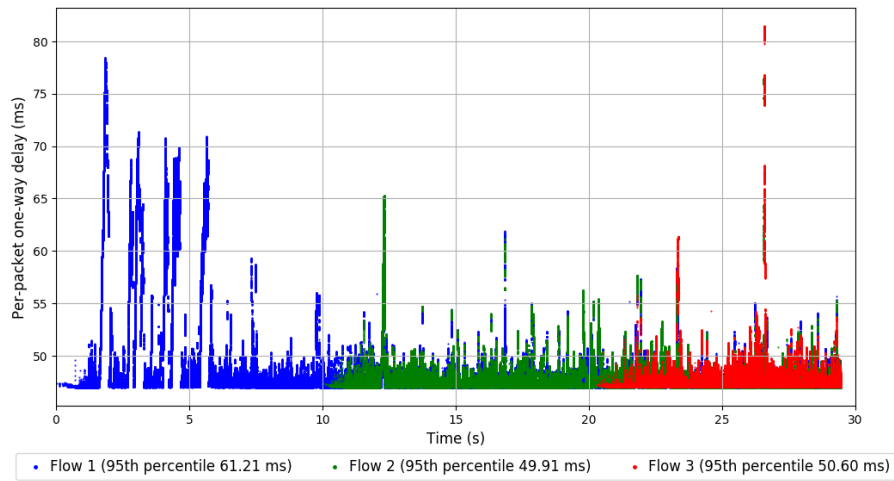
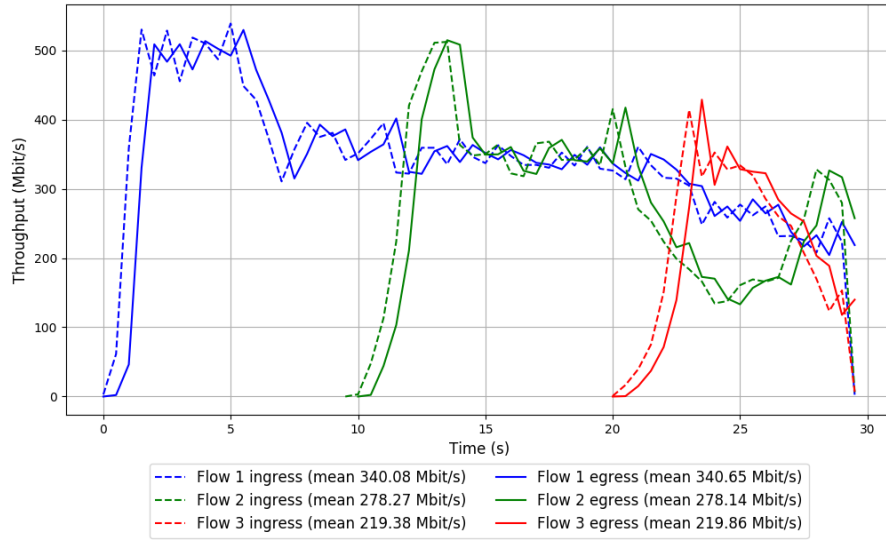
-- Flow 2:

Average throughput: 278.14 Mbit/s  
95th percentile per-packet one-way delay: 49.909 ms  
Loss rate: 0.53%

-- Flow 3:

Average throughput: 219.86 Mbit/s  
95th percentile per-packet one-way delay: 50.603 ms  
Loss rate: 0.79%

Run 1: Report of Muses\_DecisionTreeR0 — Data Link





Run 2: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-08-27 21:01:03  
End at: 2019-08-27 21:01:33  
Local clock offset: 0.158 ms  
Remote clock offset: -0.005 ms

# Below is generated by plot.py at 2019-08-28 01:29:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 621.75 Mbit/s  
95th percentile per-packet one-way delay: 53.547 ms  
Loss rate: 0.42%

-- Flow 1:

Average throughput: 359.38 Mbit/s  
95th percentile per-packet one-way delay: 56.080 ms  
Loss rate: 0.24%

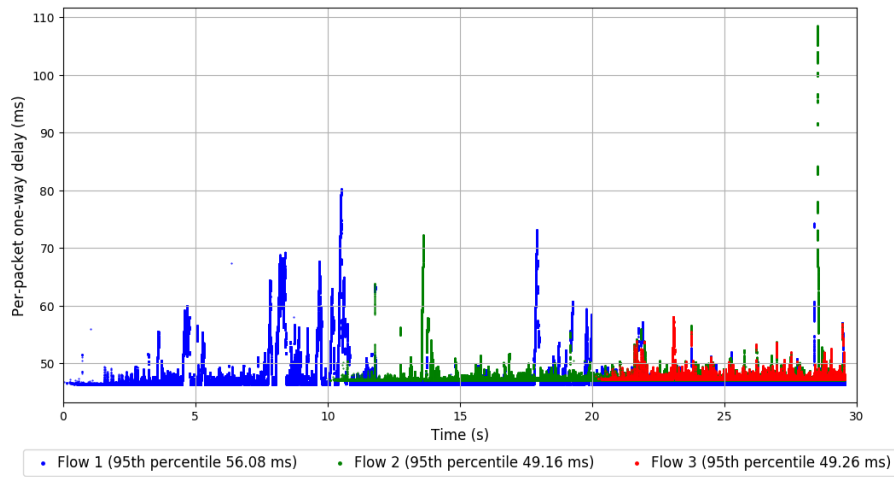
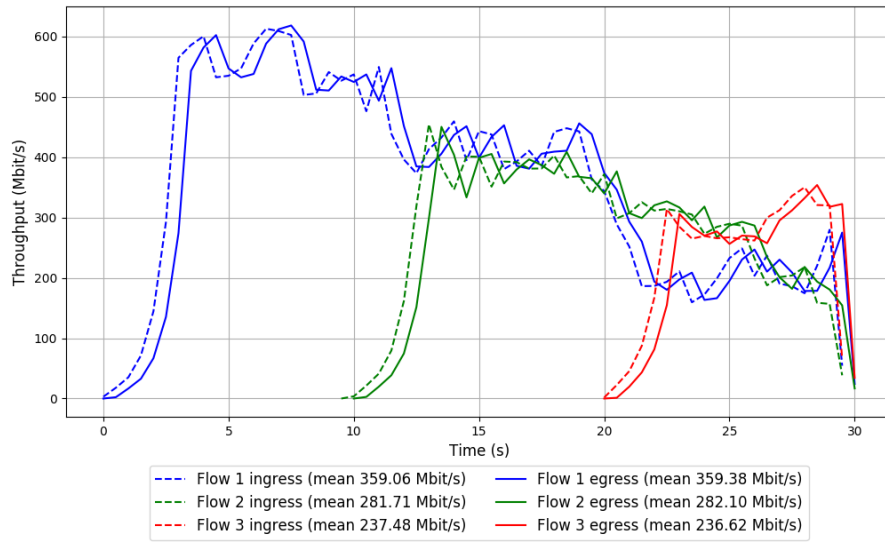
-- Flow 2:

Average throughput: 282.10 Mbit/s  
95th percentile per-packet one-way delay: 49.164 ms  
Loss rate: 0.35%

-- Flow 3:

Average throughput: 236.62 Mbit/s  
95th percentile per-packet one-way delay: 49.257 ms  
Loss rate: 1.39%

Run 2: Report of Muses\_DecisionTreeR0 — Data Link



Run 3: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-08-27 21:40:12  
End at: 2019-08-27 21:40:42  
Local clock offset: 0.154 ms  
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2019-08-28 01:30:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 670.75 Mbit/s  
95th percentile per-packet one-way delay: 54.261 ms  
Loss rate: 0.33%

-- Flow 1:

Average throughput: 419.60 Mbit/s  
95th percentile per-packet one-way delay: 56.327 ms  
Loss rate: 0.27%

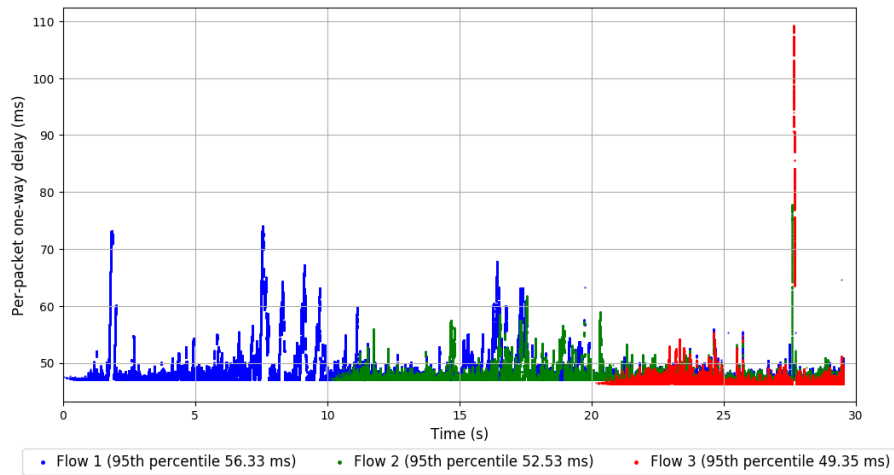
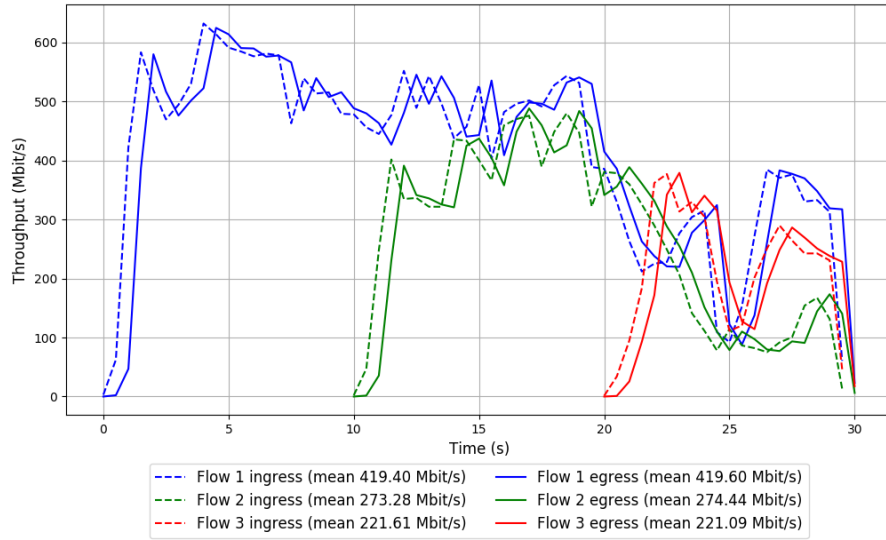
-- Flow 2:

Average throughput: 274.44 Mbit/s  
95th percentile per-packet one-way delay: 52.529 ms  
Loss rate: 0.12%

-- Flow 3:

Average throughput: 221.09 Mbit/s  
95th percentile per-packet one-way delay: 49.352 ms  
Loss rate: 1.22%

### Run 3: Report of Muses\_DecisionTreeR0 — Data Link



Run 4: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-08-27 22:19:21  
End at: 2019-08-27 22:19:51  
Local clock offset: -0.103 ms  
Remote clock offset: -0.023 ms

# Below is generated by plot.py at 2019-08-28 01:31:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 687.16 Mbit/s  
95th percentile per-packet one-way delay: 52.060 ms  
Loss rate: 0.33%

-- Flow 1:

Average throughput: 403.74 Mbit/s  
95th percentile per-packet one-way delay: 53.512 ms  
Loss rate: 0.22%

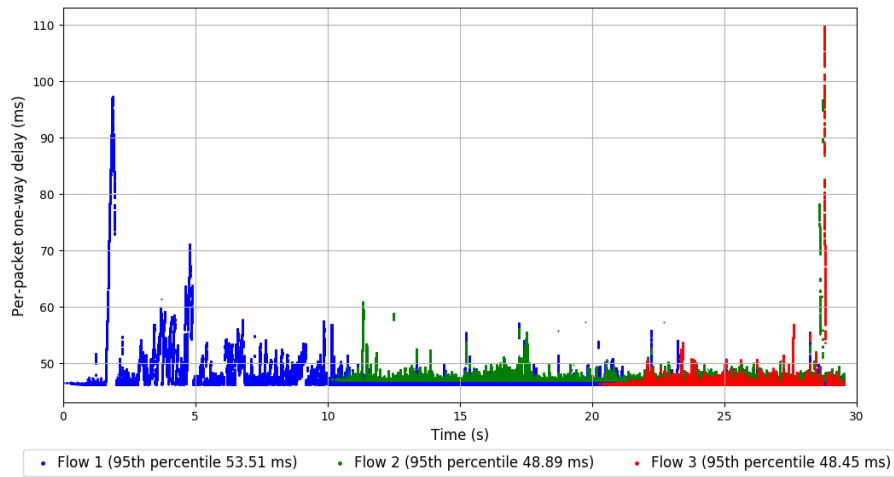
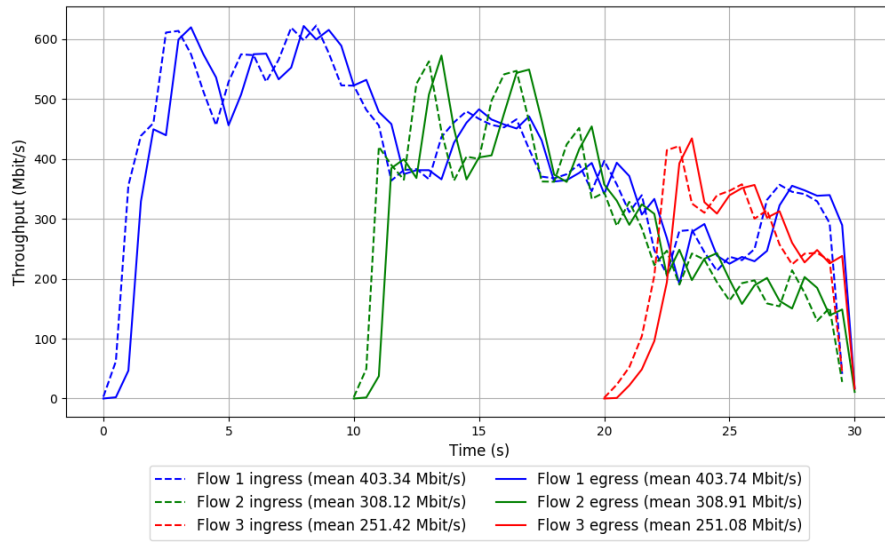
-- Flow 2:

Average throughput: 308.91 Mbit/s  
95th percentile per-packet one-way delay: 48.891 ms  
Loss rate: 0.24%

-- Flow 3:

Average throughput: 251.08 Mbit/s  
95th percentile per-packet one-way delay: 48.452 ms  
Loss rate: 1.14%

Run 4: Report of Muses\_DecisionTreeR0 — Data Link



Run 5: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-08-27 22:58:28  
End at: 2019-08-27 22:58:58  
Local clock offset: 0.021 ms  
Remote clock offset: -0.106 ms

# Below is generated by plot.py at 2019-08-28 01:32:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 685.79 Mbit/s  
95th percentile per-packet one-way delay: 58.008 ms  
Loss rate: 0.26%

-- Flow 1:

Average throughput: 416.23 Mbit/s  
95th percentile per-packet one-way delay: 66.358 ms  
Loss rate: 0.18%

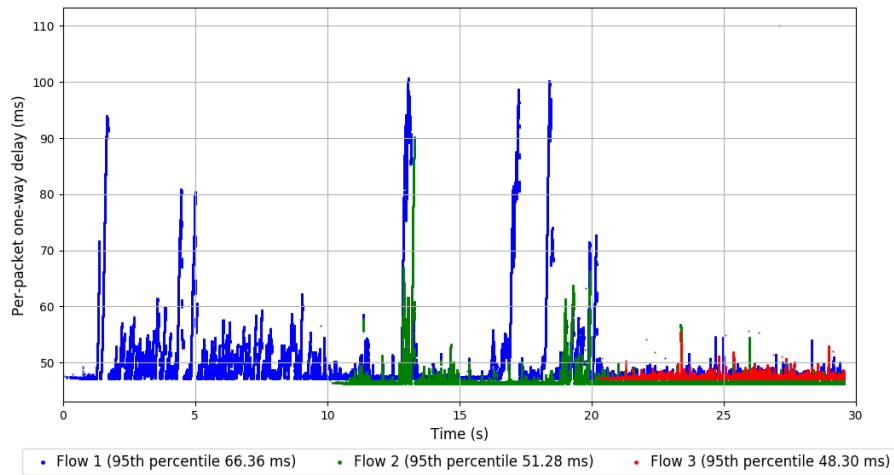
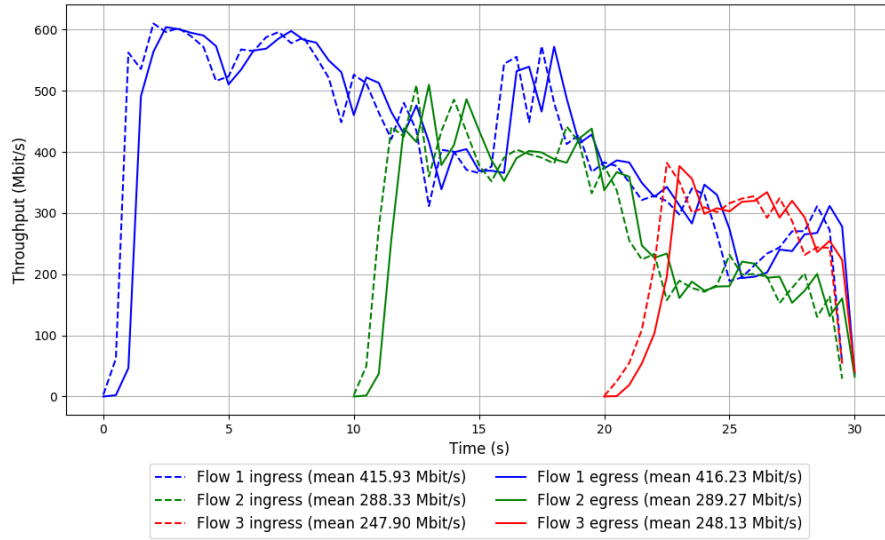
-- Flow 2:

Average throughput: 289.27 Mbit/s  
95th percentile per-packet one-way delay: 51.281 ms  
Loss rate: 0.17%

-- Flow 3:

Average throughput: 248.13 Mbit/s  
95th percentile per-packet one-way delay: 48.296 ms  
Loss rate: 0.92%

Run 5: Report of Muses\_DecisionTreeR0 — Data Link



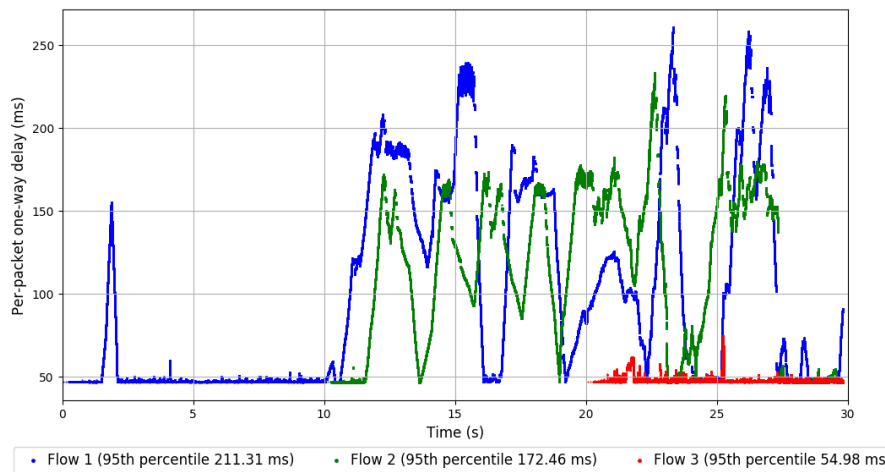
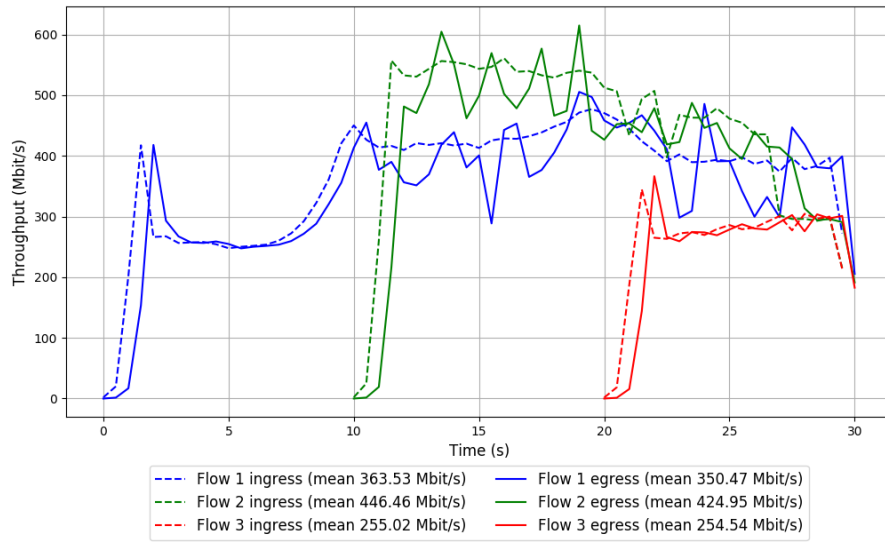


Run 1: Statistics of PCC-Allegro

Start at: 2019-08-27 20:33:58  
End at: 2019-08-27 20:34:28  
Local clock offset: -0.652 ms  
Remote clock offset: -0.014 ms

```
# Below is generated by plot.py at 2019-08-28 01:43:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 715.65 Mbit/s
95th percentile per-packet one-way delay: 189.424 ms
Loss rate: 4.14%
-- Flow 1:
Average throughput: 350.47 Mbit/s
95th percentile per-packet one-way delay: 211.315 ms
Loss rate: 3.90%
-- Flow 2:
Average throughput: 424.95 Mbit/s
95th percentile per-packet one-way delay: 172.462 ms
Loss rate: 5.27%
-- Flow 3:
Average throughput: 254.54 Mbit/s
95th percentile per-packet one-way delay: 54.979 ms
Loss rate: 1.17%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-08-27 21:13:06

End at: 2019-08-27 21:13:36

Local clock offset: 0.582 ms

Remote clock offset: -0.084 ms

# Below is generated by plot.py at 2019-08-28 01:48:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 733.21 Mbit/s

95th percentile per-packet one-way delay: 185.564 ms

Loss rate: 4.99%

-- Flow 1:

Average throughput: 434.74 Mbit/s

95th percentile per-packet one-way delay: 194.398 ms

Loss rate: 7.72%

-- Flow 2:

Average throughput: 309.06 Mbit/s

95th percentile per-packet one-way delay: 57.243 ms

Loss rate: 0.51%

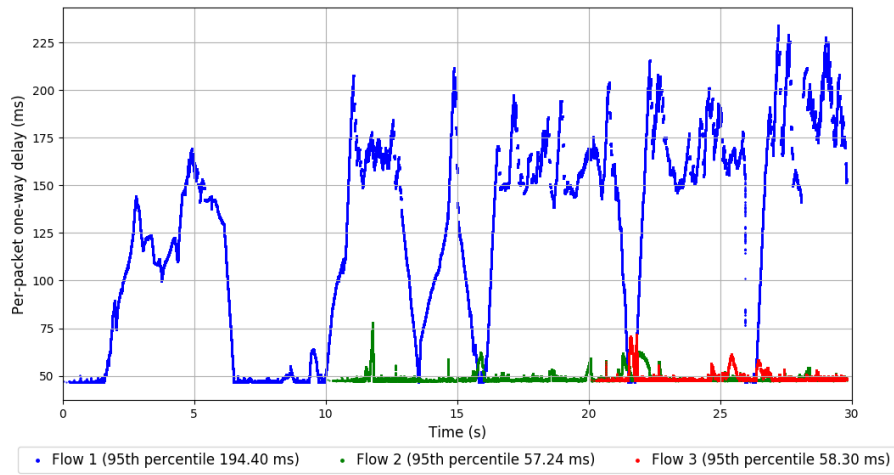
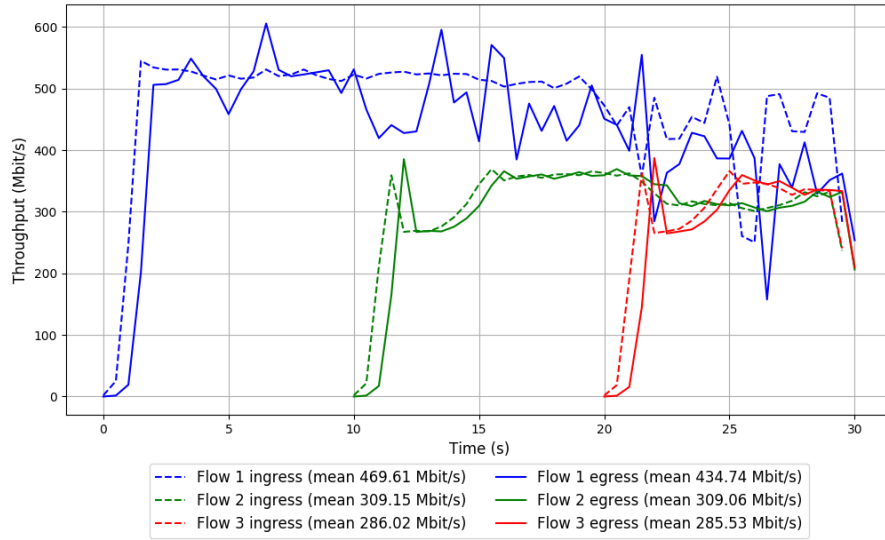
-- Flow 3:

Average throughput: 285.53 Mbit/s

95th percentile per-packet one-way delay: 58.302 ms

Loss rate: 1.13%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-08-27 21:52:19

End at: 2019-08-27 21:52:49

Local clock offset: -0.113 ms

Remote clock offset: -0.02 ms

# Below is generated by plot.py at 2019-08-28 01:48:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 737.54 Mbit/s

95th percentile per-packet one-way delay: 171.863 ms

Loss rate: 3.78%

-- Flow 1:

Average throughput: 390.39 Mbit/s

95th percentile per-packet one-way delay: 166.153 ms

Loss rate: 2.40%

-- Flow 2:

Average throughput: 397.31 Mbit/s

95th percentile per-packet one-way delay: 179.231 ms

Loss rate: 6.52%

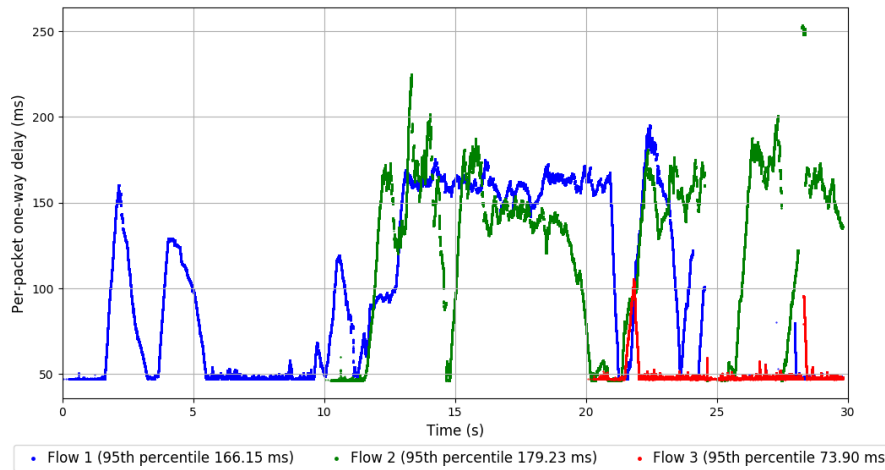
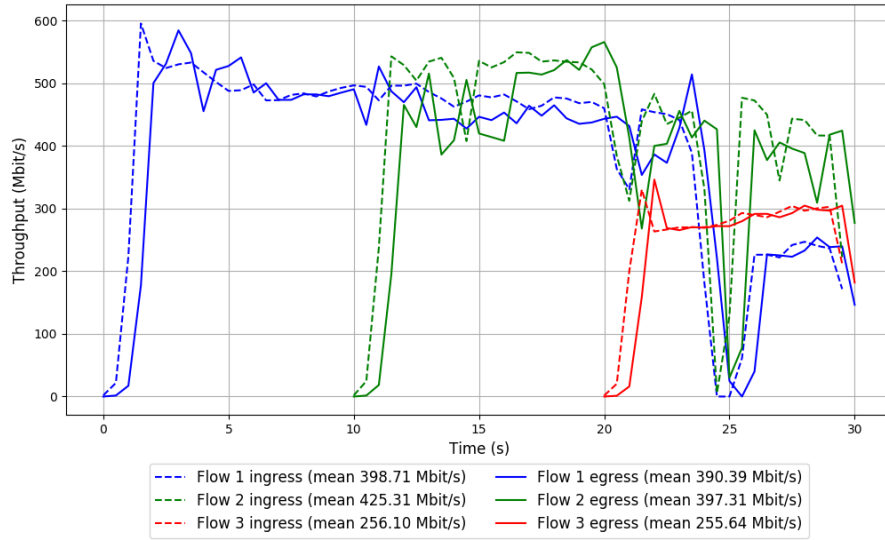
-- Flow 3:

Average throughput: 255.64 Mbit/s

95th percentile per-packet one-way delay: 73.897 ms

Loss rate: 1.17%

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

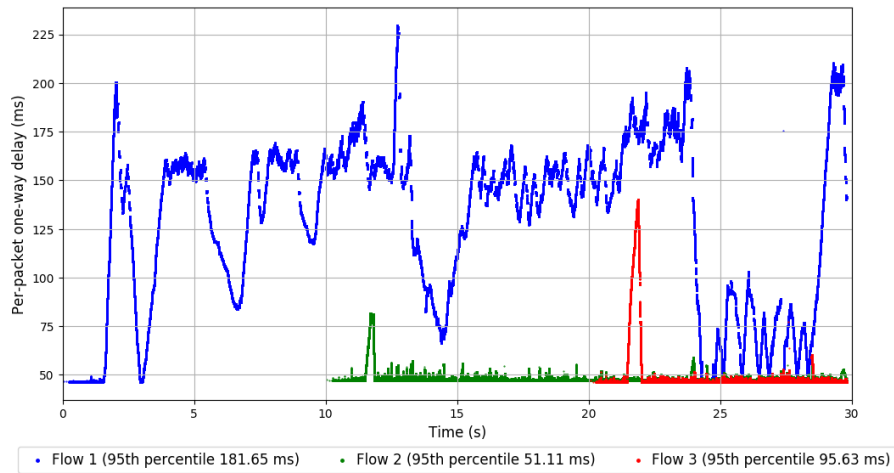
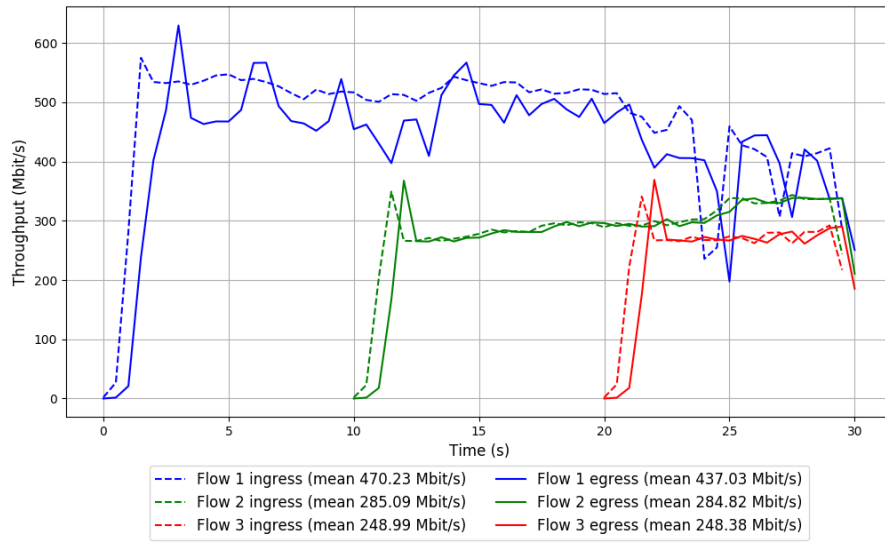


Run 4: Statistics of PCC-Allegro

Start at: 2019-08-27 22:31:34  
End at: 2019-08-27 22:32:04  
Local clock offset: -0.071 ms  
Remote clock offset: -0.085 ms

```
# Below is generated by plot.py at 2019-08-28 01:48:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 707.36 Mbit/s
95th percentile per-packet one-way delay: 174.768 ms
Loss rate: 4.94%
-- Flow 1:
Average throughput: 437.03 Mbit/s
95th percentile per-packet one-way delay: 181.650 ms
Loss rate: 7.36%
-- Flow 2:
Average throughput: 284.82 Mbit/s
95th percentile per-packet one-way delay: 51.106 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 248.38 Mbit/s
95th percentile per-packet one-way delay: 95.626 ms
Loss rate: 1.22%
```

Run 4: Report of PCC-Allegro — Data Link



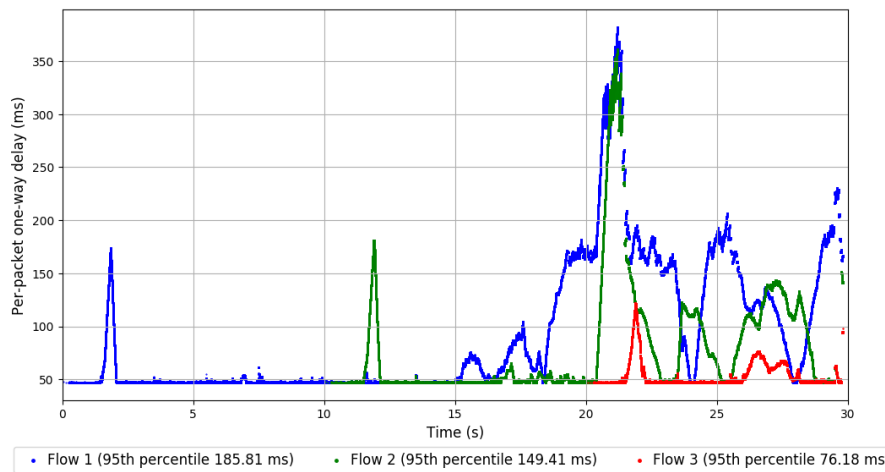
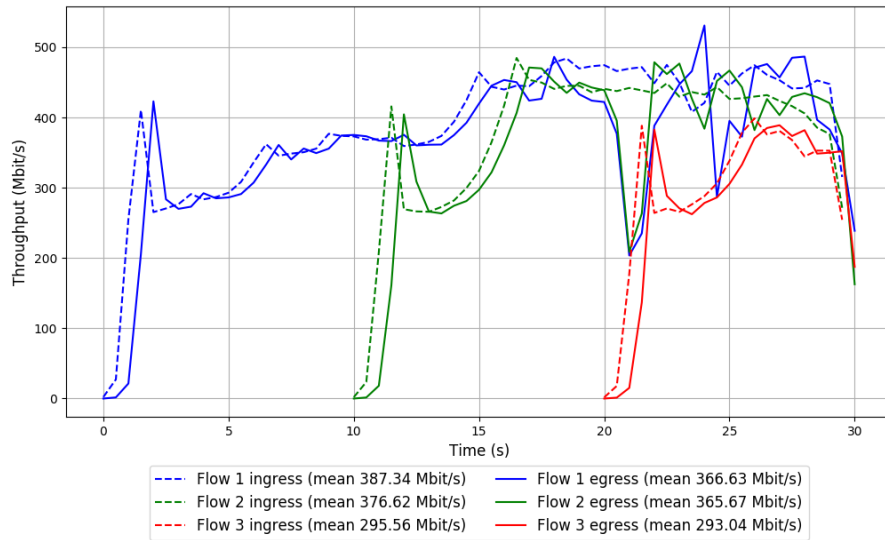


Run 5: Statistics of PCC-Allegro

Start at: 2019-08-27 23:10:47  
End at: 2019-08-27 23:11:17  
Local clock offset: 0.06 ms  
Remote clock offset: -0.059 ms

```
# Below is generated by plot.py at 2019-08-28 01:50:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 704.94 Mbit/s
95th percentile per-packet one-way delay: 179.381 ms
Loss rate: 4.36%
-- Flow 1:
Average throughput: 366.63 Mbit/s
95th percentile per-packet one-way delay: 185.809 ms
Loss rate: 5.65%
-- Flow 2:
Average throughput: 365.67 Mbit/s
95th percentile per-packet one-way delay: 149.405 ms
Loss rate: 3.37%
-- Flow 3:
Average throughput: 293.04 Mbit/s
95th percentile per-packet one-way delay: 76.181 ms
Loss rate: 1.78%
```

Run 5: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2019-08-27 20:44:08

End at: 2019-08-27 20:44:38

Local clock offset: 0.055 ms

Remote clock offset: 0.001 ms

# Below is generated by plot.py at 2019-08-28 01:50:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 453.18 Mbit/s

95th percentile per-packet one-way delay: 161.793 ms

Loss rate: 1.92%

-- Flow 1:

Average throughput: 262.68 Mbit/s

95th percentile per-packet one-way delay: 174.277 ms

Loss rate: 2.74%

-- Flow 2:

Average throughput: 228.42 Mbit/s

95th percentile per-packet one-way delay: 85.011 ms

Loss rate: 0.72%

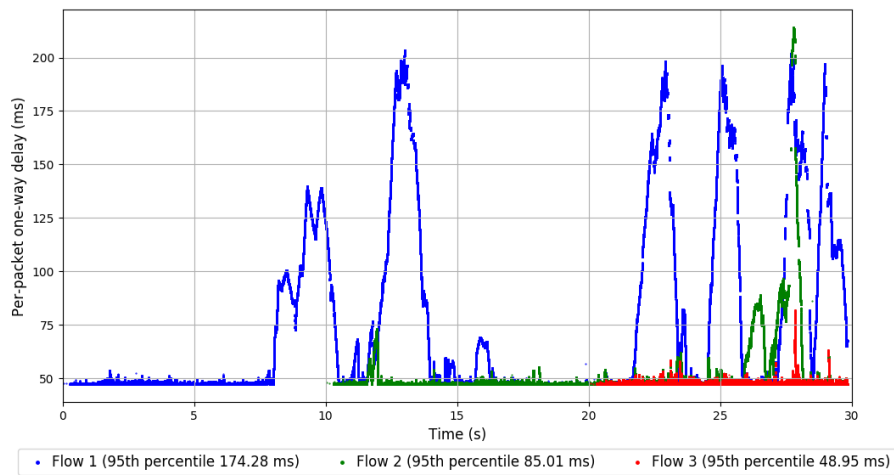
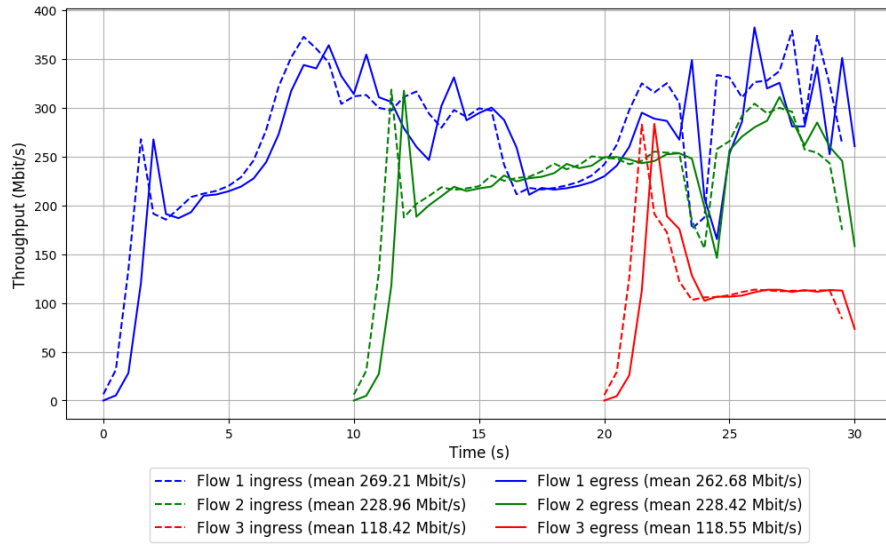
-- Flow 3:

Average throughput: 118.55 Mbit/s

95th percentile per-packet one-way delay: 48.954 ms

Loss rate: 0.91%

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



Run 2: Statistics of PCC-Expr

Start at: 2019-08-27 21:23:22  
End at: 2019-08-27 21:23:52  
Local clock offset: 0.311 ms  
Remote clock offset: -0.076 ms

# Below is generated by plot.py at 2019-08-28 01:50:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 463.63 Mbit/s  
95th percentile per-packet one-way delay: 97.330 ms  
Loss rate: 0.60%

-- Flow 1:

Average throughput: 286.68 Mbit/s  
95th percentile per-packet one-way delay: 97.455 ms  
Loss rate: 0.66%

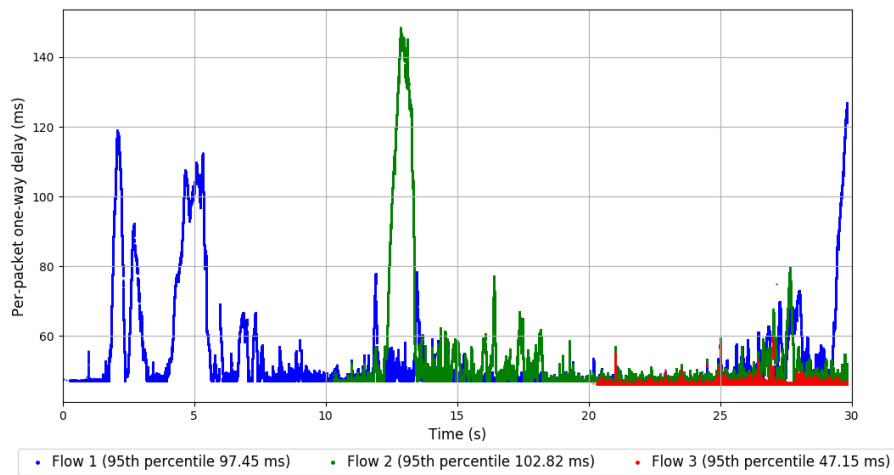
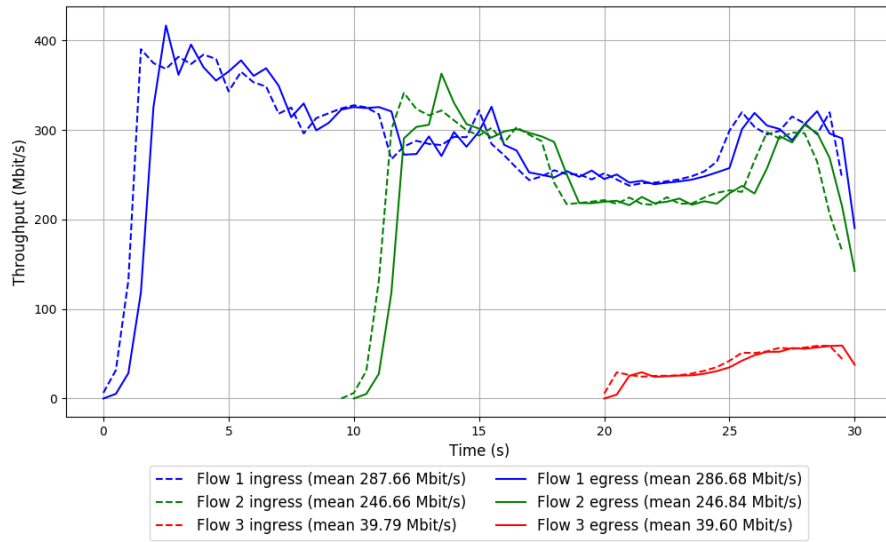
-- Flow 2:

Average throughput: 246.84 Mbit/s  
95th percentile per-packet one-way delay: 102.823 ms  
Loss rate: 0.42%

-- Flow 3:

Average throughput: 39.60 Mbit/s  
95th percentile per-packet one-way delay: 47.152 ms  
Loss rate: 1.49%

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



Run 3: Statistics of PCC-Expr

Start at: 2019-08-27 22:02:34

End at: 2019-08-27 22:03:04

Local clock offset: -0.139 ms

Remote clock offset: 0.004 ms

# Below is generated by plot.py at 2019-08-28 01:50:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 453.18 Mbit/s

95th percentile per-packet one-way delay: 137.689 ms

Loss rate: 2.74%

-- Flow 1:

Average throughput: 265.34 Mbit/s

95th percentile per-packet one-way delay: 202.671 ms

Loss rate: 4.13%

-- Flow 2:

Average throughput: 197.81 Mbit/s

95th percentile per-packet one-way delay: 82.847 ms

Loss rate: 0.69%

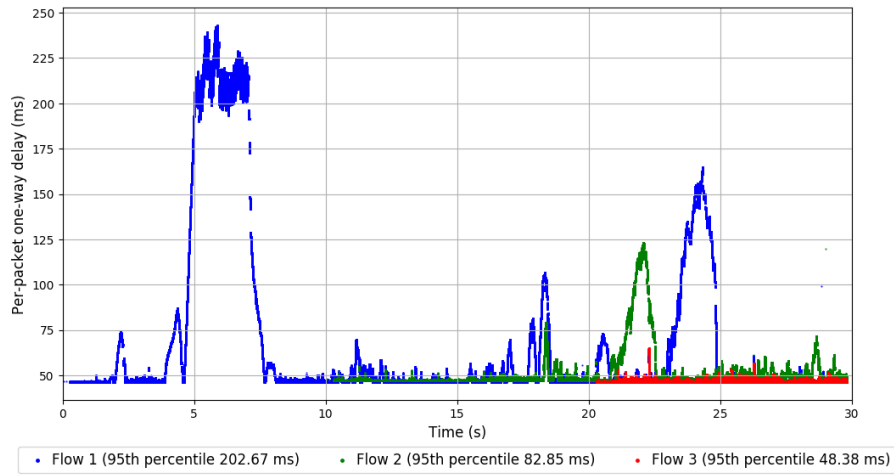
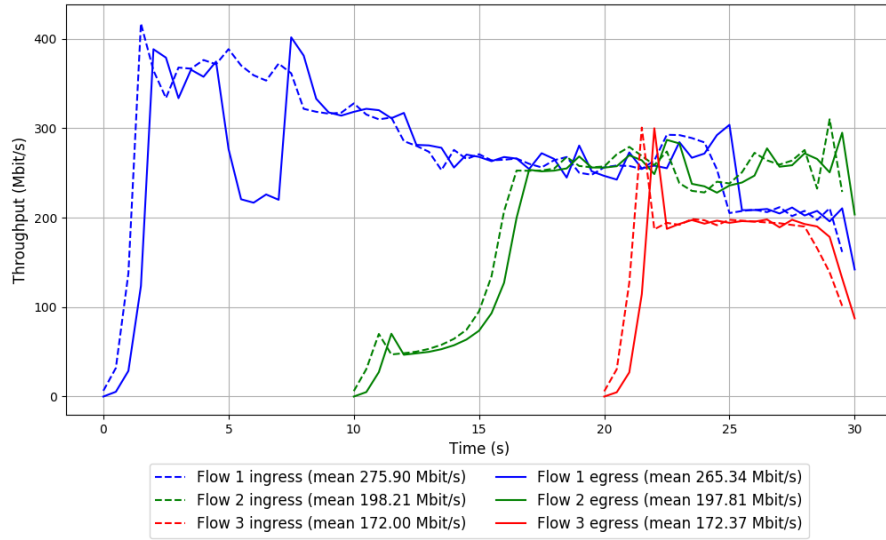
-- Flow 3:

Average throughput: 172.37 Mbit/s

95th percentile per-packet one-way delay: 48.375 ms

Loss rate: 0.75%

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





Run 4: Statistics of PCC-Expr

Start at: 2019-08-27 22:41:42

End at: 2019-08-27 22:42:12

Local clock offset: -0.129 ms

Remote clock offset: -0.09 ms

# Below is generated by plot.py at 2019-08-28 01:55:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 432.78 Mbit/s

95th percentile per-packet one-way delay: 60.348 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 212.65 Mbit/s

95th percentile per-packet one-way delay: 57.313 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 229.98 Mbit/s

95th percentile per-packet one-way delay: 82.469 ms

Loss rate: 1.00%

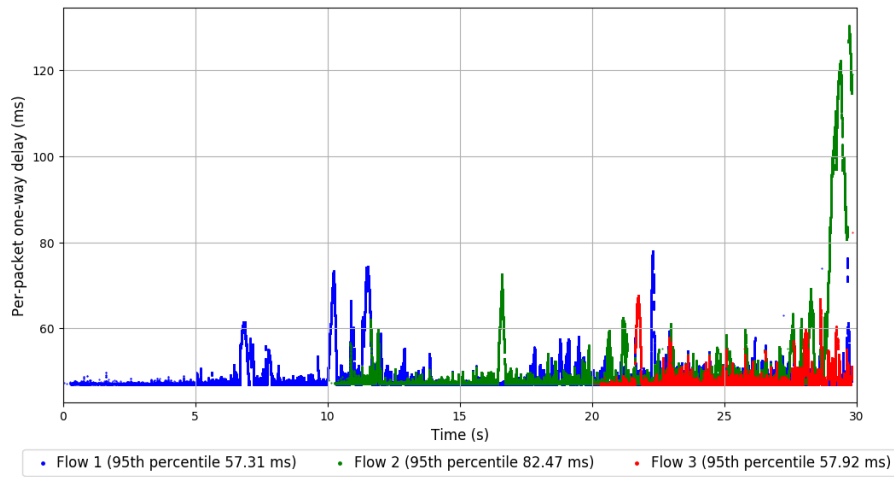
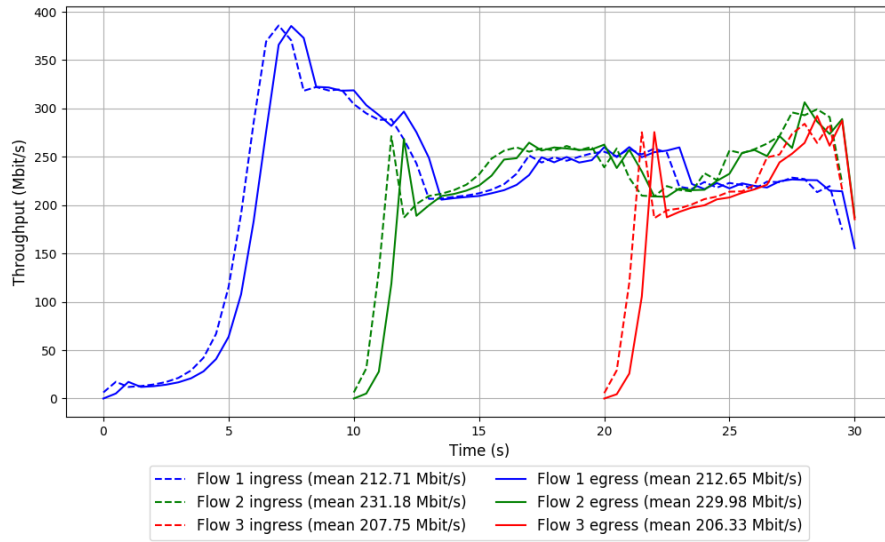
-- Flow 3:

Average throughput: 206.33 Mbit/s

95th percentile per-packet one-way delay: 57.919 ms

Loss rate: 1.33%

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

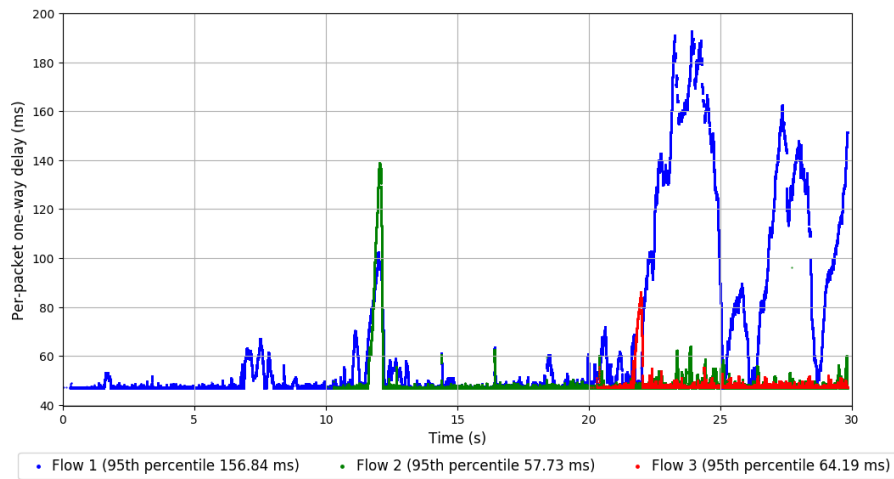
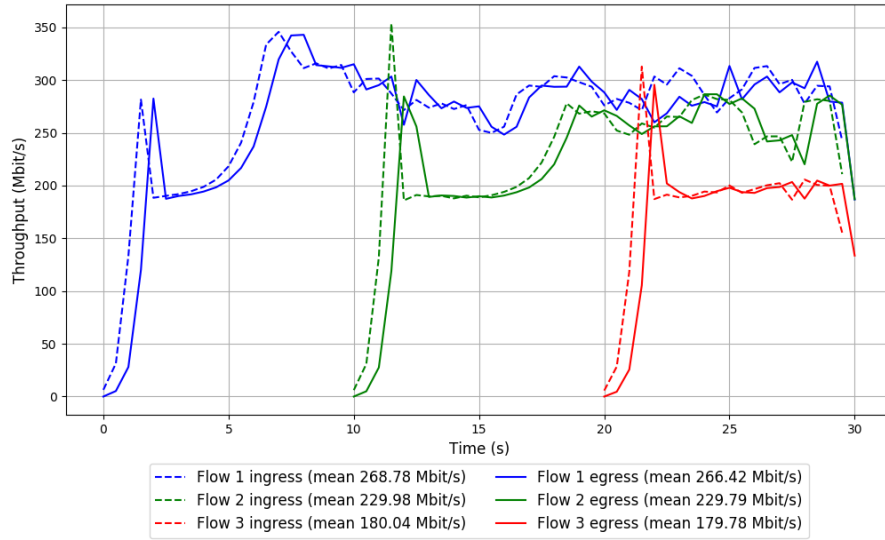


Run 5: Statistics of PCC-Expr

Start at: 2019-08-27 23:21:04  
End at: 2019-08-27 23:21:34  
Local clock offset: -0.11 ms  
Remote clock offset: -0.089 ms

```
# Below is generated by plot.py at 2019-08-28 01:56:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 477.95 Mbit/s
95th percentile per-packet one-way delay: 137.748 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 266.42 Mbit/s
95th percentile per-packet one-way delay: 156.843 ms
Loss rate: 1.19%
-- Flow 2:
Average throughput: 229.79 Mbit/s
95th percentile per-packet one-way delay: 57.733 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 179.78 Mbit/s
95th percentile per-packet one-way delay: 64.185 ms
Loss rate: 1.12%
```

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-08-27 20:32:40  
End at: 2019-08-27 20:33:10  
Local clock offset: -0.308 ms  
Remote clock offset: -0.023 ms

# Below is generated by plot.py at 2019-08-28 01:56:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 142.39 Mbit/s  
95th percentile per-packet one-way delay: 47.252 ms  
Loss rate: 0.60%

-- Flow 1:

Average throughput: 69.35 Mbit/s  
95th percentile per-packet one-way delay: 46.661 ms  
Loss rate: 0.51%

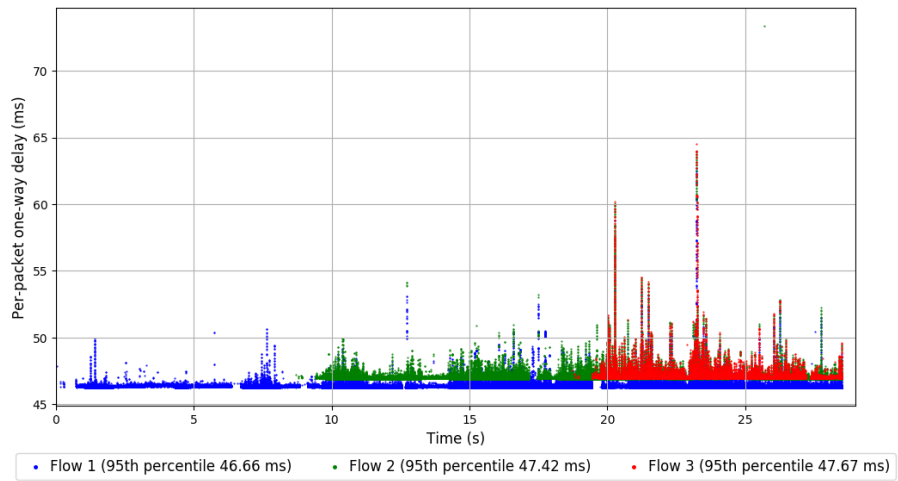
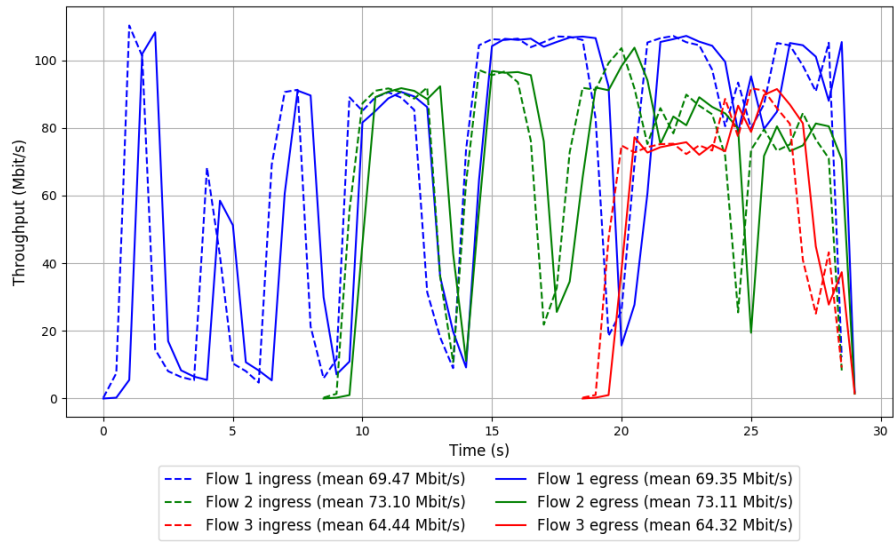
-- Flow 2:

Average throughput: 73.11 Mbit/s  
95th percentile per-packet one-way delay: 47.417 ms  
Loss rate: 0.47%

-- Flow 3:

Average throughput: 64.32 Mbit/s  
95th percentile per-packet one-way delay: 47.668 ms  
Loss rate: 1.16%

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



Run 2: Statistics of QUIC Cubic

Start at: 2019-08-27 21:11:47  
End at: 2019-08-27 21:12:17  
Local clock offset: 0.251 ms  
Remote clock offset: -0.052 ms

# Below is generated by plot.py at 2019-08-28 01:56:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 149.70 Mbit/s  
95th percentile per-packet one-way delay: 47.151 ms  
Loss rate: 0.30%

-- Flow 1:

Average throughput: 78.47 Mbit/s  
95th percentile per-packet one-way delay: 47.221 ms  
Loss rate: 0.00%

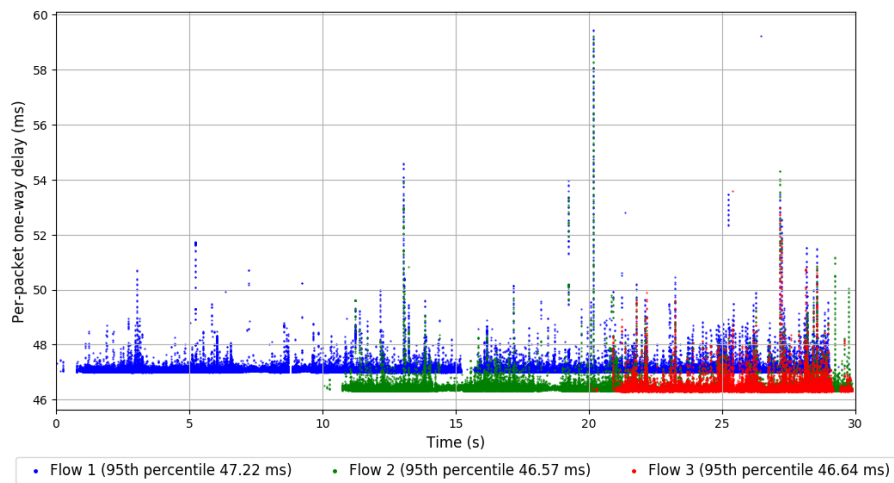
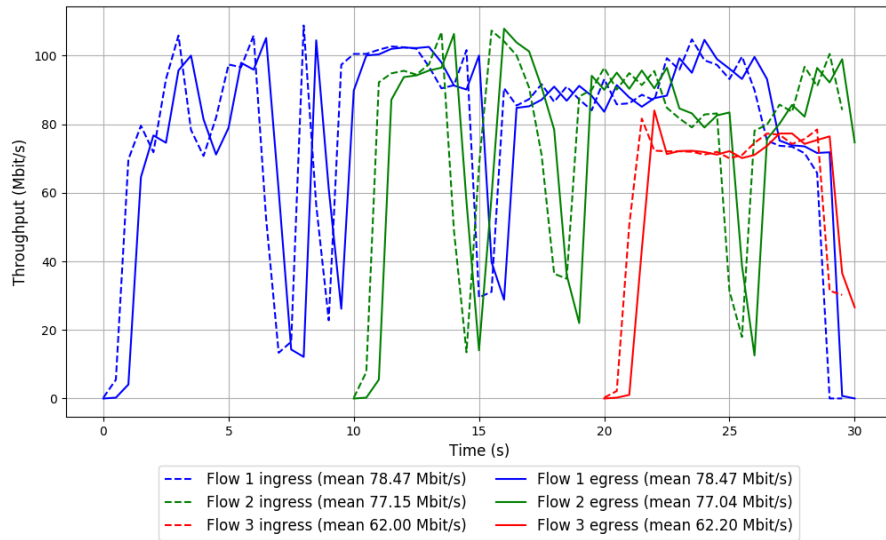
-- Flow 2:

Average throughput: 77.04 Mbit/s  
95th percentile per-packet one-way delay: 46.568 ms  
Loss rate: 0.63%

-- Flow 3:

Average throughput: 62.20 Mbit/s  
95th percentile per-packet one-way delay: 46.638 ms  
Loss rate: 0.63%

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





Run 3: Statistics of QUIC Cubic

Start at: 2019-08-27 21:51:01  
End at: 2019-08-27 21:51:31  
Local clock offset: -0.082 ms  
Remote clock offset: -0.003 ms

# Below is generated by plot.py at 2019-08-28 01:56:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 140.07 Mbit/s  
95th percentile per-packet one-way delay: 47.596 ms  
Loss rate: 0.40%

-- Flow 1:

Average throughput: 76.55 Mbit/s  
95th percentile per-packet one-way delay: 47.624 ms  
Loss rate: 0.31%

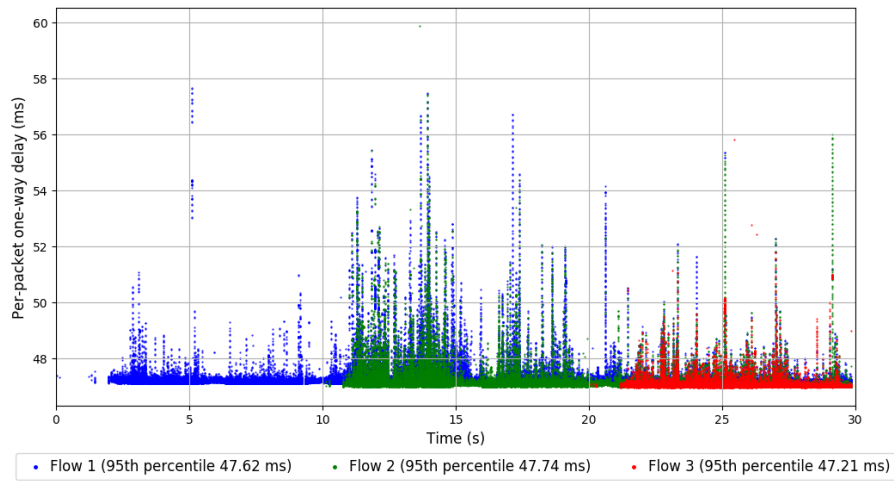
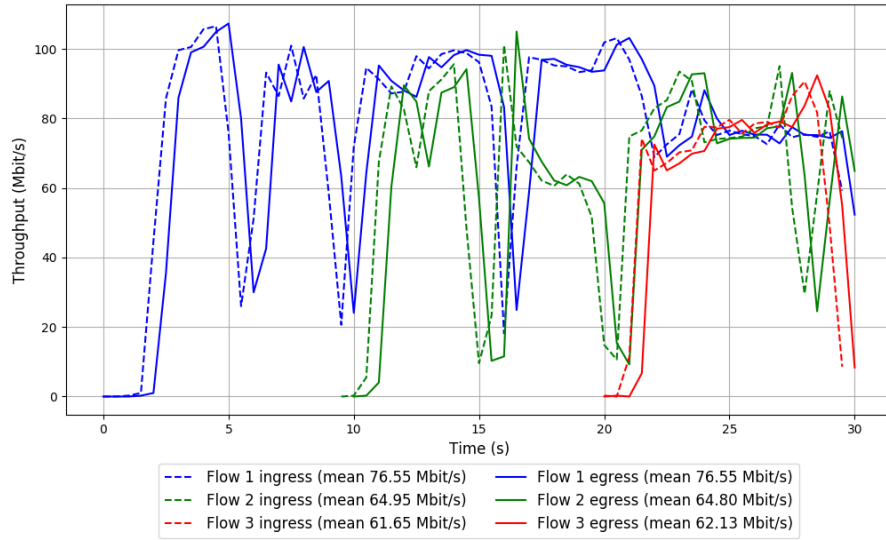
-- Flow 2:

Average throughput: 64.80 Mbit/s  
95th percentile per-packet one-way delay: 47.737 ms  
Loss rate: 0.70%

-- Flow 3:

Average throughput: 62.13 Mbit/s  
95th percentile per-packet one-way delay: 47.214 ms  
Loss rate: 0.14%

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



Run 4: Statistics of QUIC Cubic

Start at: 2019-08-27 22:30:15

End at: 2019-08-27 22:30:45

Local clock offset: -0.081 ms

Remote clock offset: -0.09 ms

# Below is generated by plot.py at 2019-08-28 01:56:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 142.39 Mbit/s

95th percentile per-packet one-way delay: 47.417 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 75.97 Mbit/s

95th percentile per-packet one-way delay: 47.400 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 71.80 Mbit/s

95th percentile per-packet one-way delay: 47.516 ms

Loss rate: 0.67%

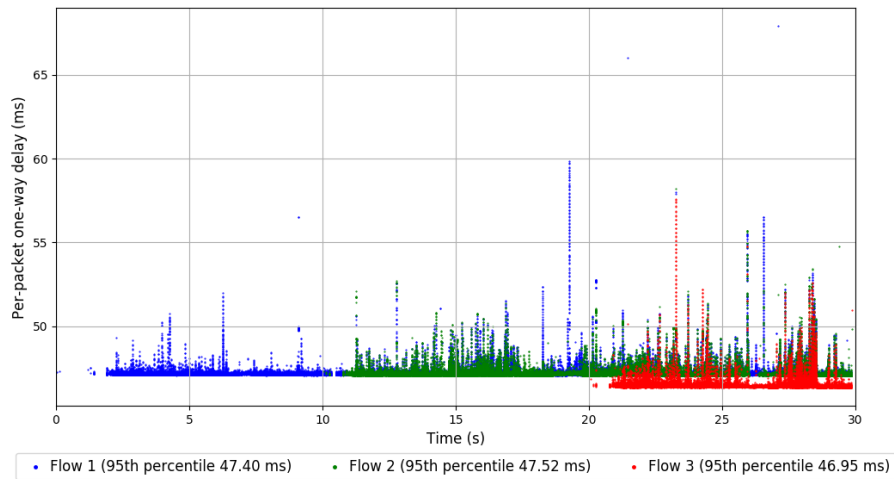
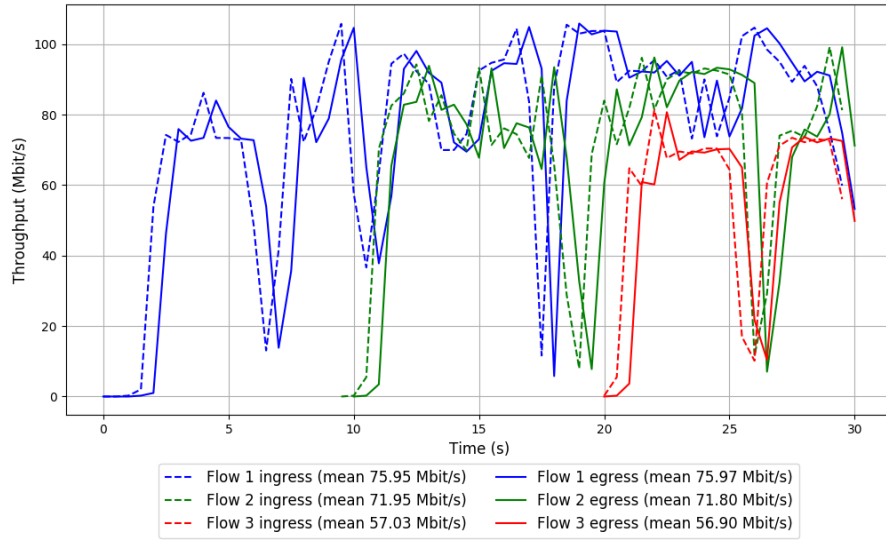
-- Flow 3:

Average throughput: 56.90 Mbit/s

95th percentile per-packet one-way delay: 46.954 ms

Loss rate: 1.14%

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



Run 5: Statistics of QUIC Cubic

Start at: 2019-08-27 23:09:30  
End at: 2019-08-27 23:10:00  
Local clock offset: -0.016 ms  
Remote clock offset: -0.075 ms

# Below is generated by plot.py at 2019-08-28 01:56:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 121.92 Mbit/s  
95th percentile per-packet one-way delay: 47.025 ms  
Loss rate: 0.59%

-- Flow 1:

Average throughput: 74.95 Mbit/s  
95th percentile per-packet one-way delay: 46.329 ms  
Loss rate: 0.49%

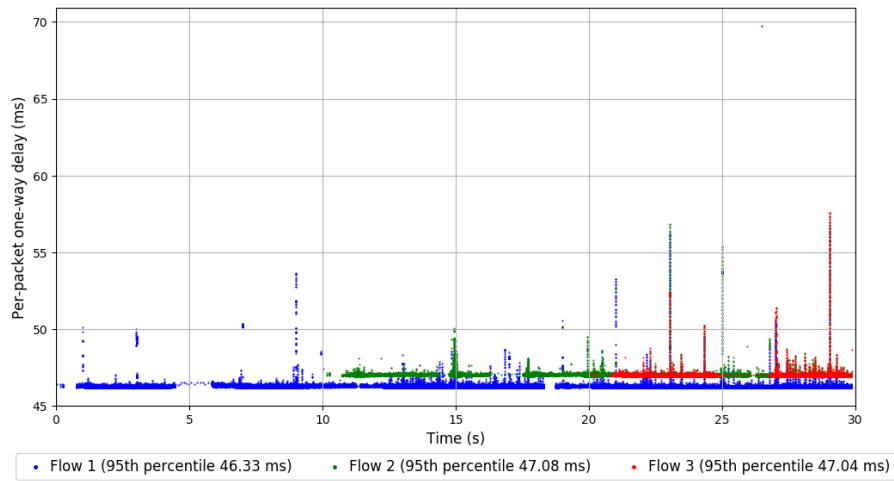
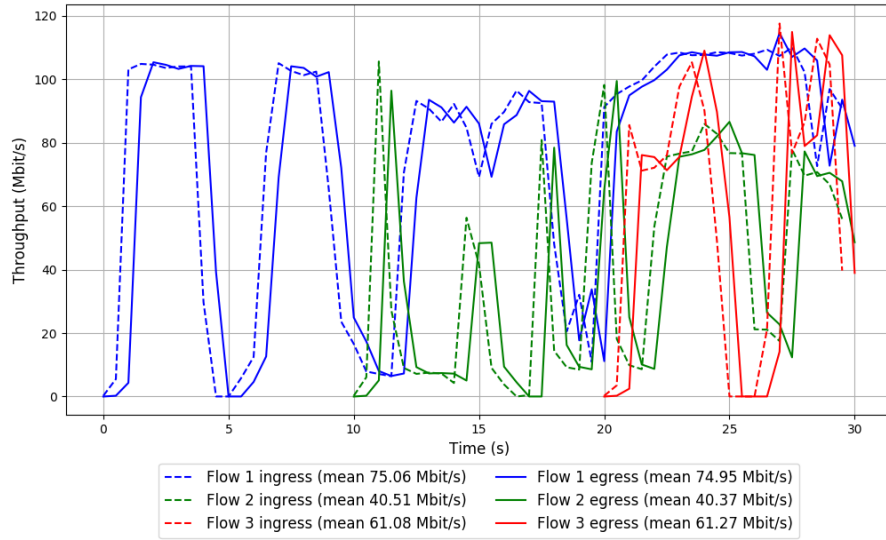
-- Flow 2:

Average throughput: 40.37 Mbit/s  
95th percentile per-packet one-way delay: 47.075 ms  
Loss rate: 0.83%

-- Flow 3:

Average throughput: 61.27 Mbit/s  
95th percentile per-packet one-way delay: 47.044 ms  
Loss rate: 0.68%

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



Run 1: Statistics of SCReAM

Start at: 2019-08-27 20:23:47  
End at: 2019-08-27 20:24:17  
Local clock offset: -0.602 ms  
Remote clock offset: -0.007 ms

# Below is generated by plot.py at 2019-08-28 01:56:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 47.516 ms  
Loss rate: 0.46%

-- Flow 1:

Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 47.465 ms  
Loss rate: 0.26%

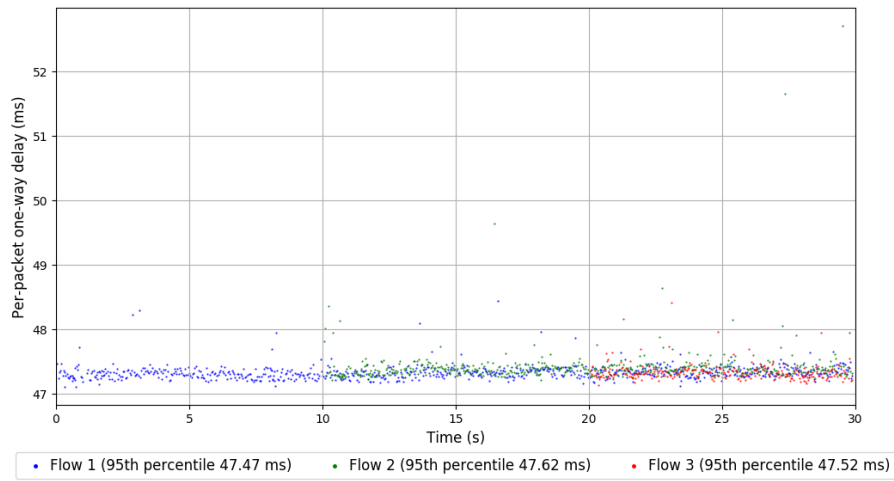
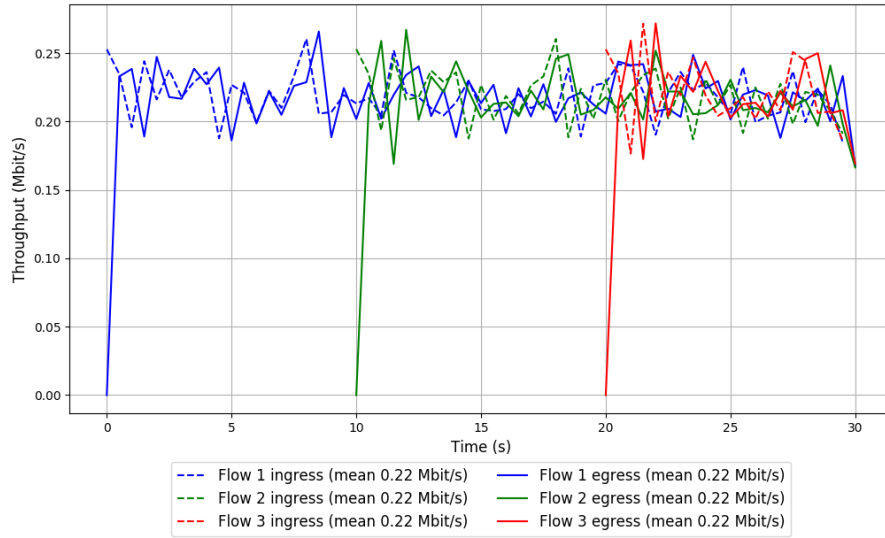
-- Flow 2:

Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 47.619 ms  
Loss rate: 0.61%

-- Flow 3:

Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 47.516 ms  
Loss rate: 0.74%

# Run 1: Report of SCReAM — Data Link





Run 2: Statistics of SCReAM

Start at: 2019-08-27 21:02:42

End at: 2019-08-27 21:03:12

Local clock offset: 0.17 ms

Remote clock offset: 0.037 ms

# Below is generated by plot.py at 2019-08-28 01:56:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 47.441 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 47.398 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 47.455 ms

Loss rate: 0.40%

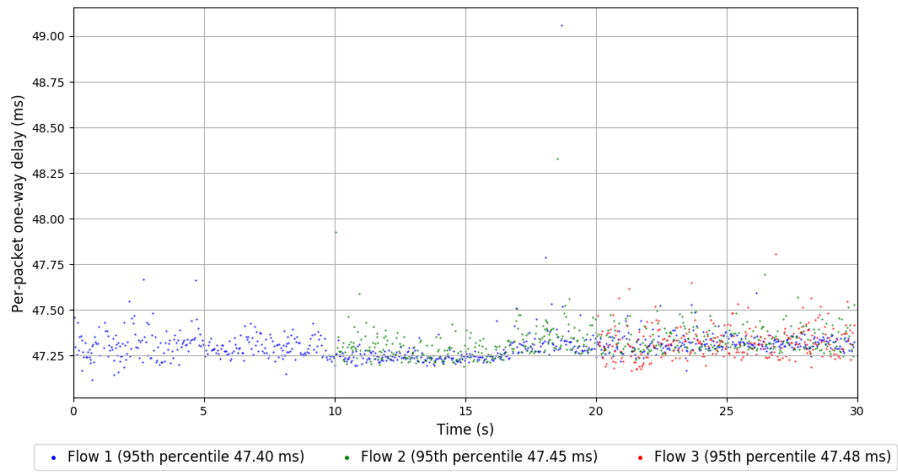
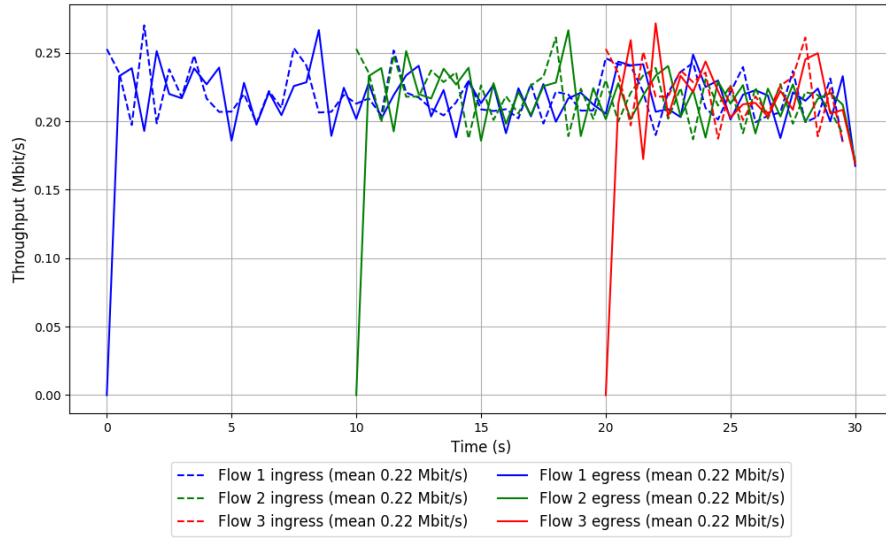
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 47.481 ms

Loss rate: 1.09%

Run 2: Report of SCReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2019-08-27 21:41:54  
End at: 2019-08-27 21:42:24  
Local clock offset: 0.092 ms  
Remote clock offset: -0.057 ms

# Below is generated by plot.py at 2019-08-28 01:56:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 47.489 ms  
Loss rate: 0.52%

-- Flow 1:

Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 47.453 ms  
Loss rate: 0.38%

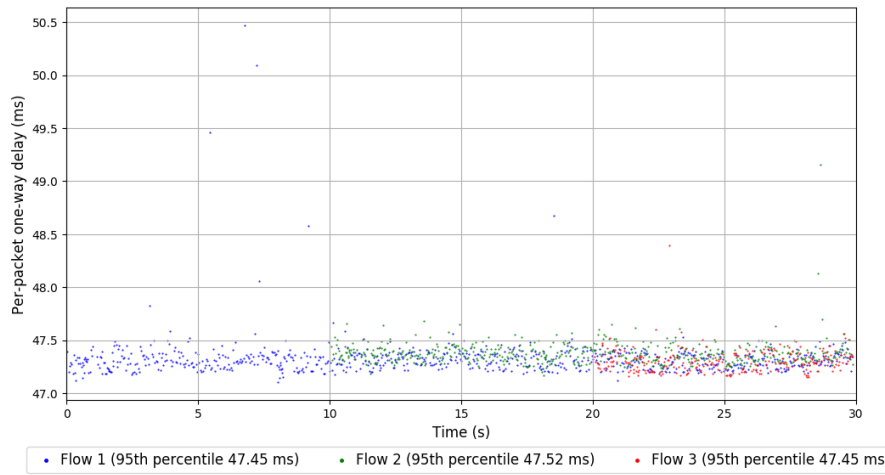
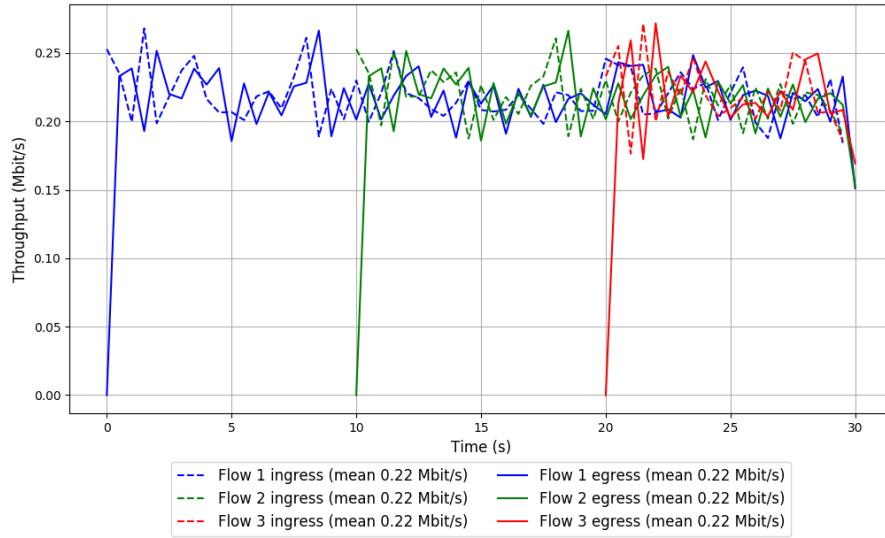
-- Flow 2:

Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 47.520 ms  
Loss rate: 0.61%

-- Flow 3:

Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 47.449 ms  
Loss rate: 0.74%

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



Run 4: Statistics of SCReAM

Start at: 2019-08-27 22:21:04  
End at: 2019-08-27 22:21:34  
Local clock offset: -0.078 ms  
Remote clock offset: -0.052 ms

# Below is generated by plot.py at 2019-08-28 01:56:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 47.429 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 47.460 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 46.714 ms

Loss rate: 0.62%

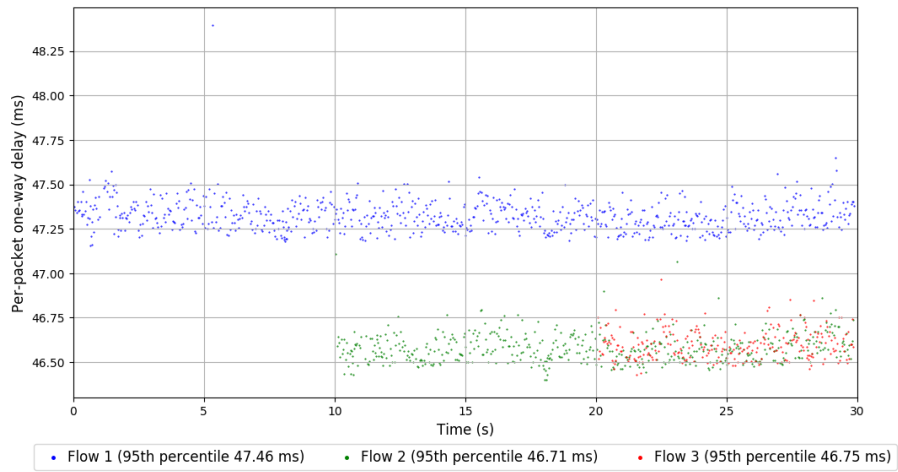
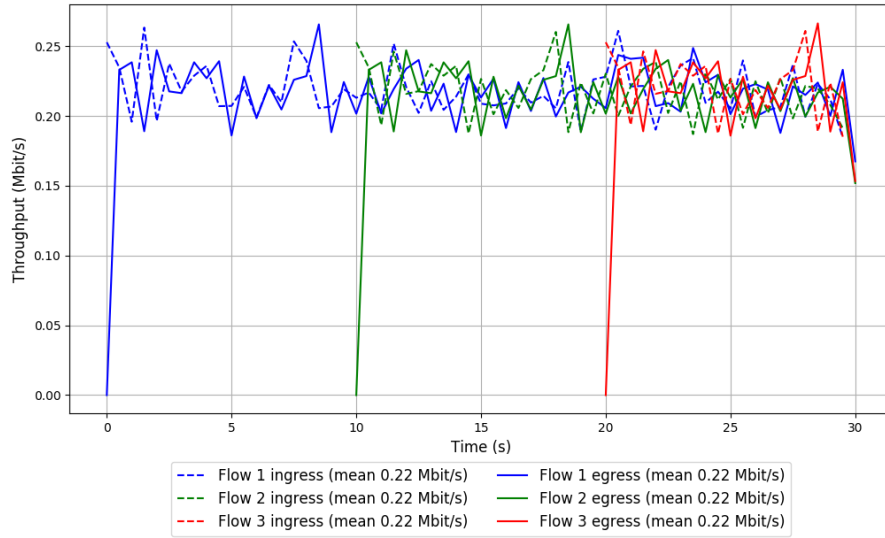
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 46.751 ms

Loss rate: 1.09%

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



Run 5: Statistics of SCReAM

Start at: 2019-08-27 23:00:11  
End at: 2019-08-27 23:00:41  
Local clock offset: 0.015 ms  
Remote clock offset: -0.075 ms

# Below is generated by plot.py at 2019-08-28 01:56:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 47.460 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 47.494 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 46.674 ms

Loss rate: 0.40%

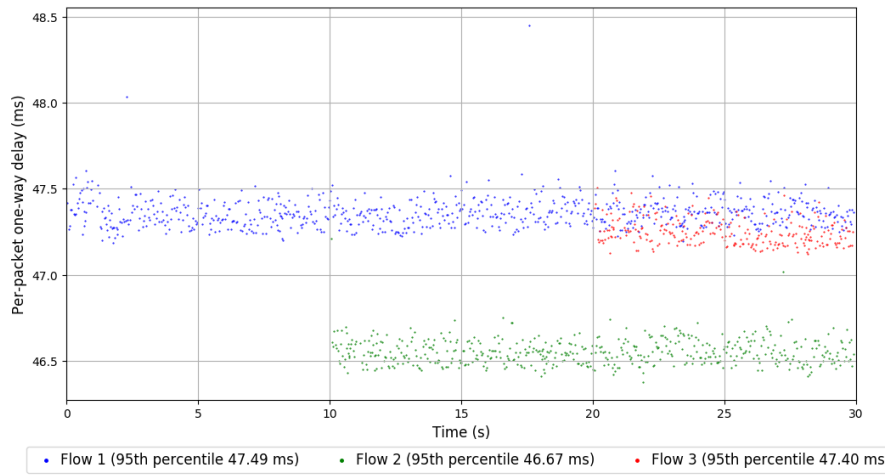
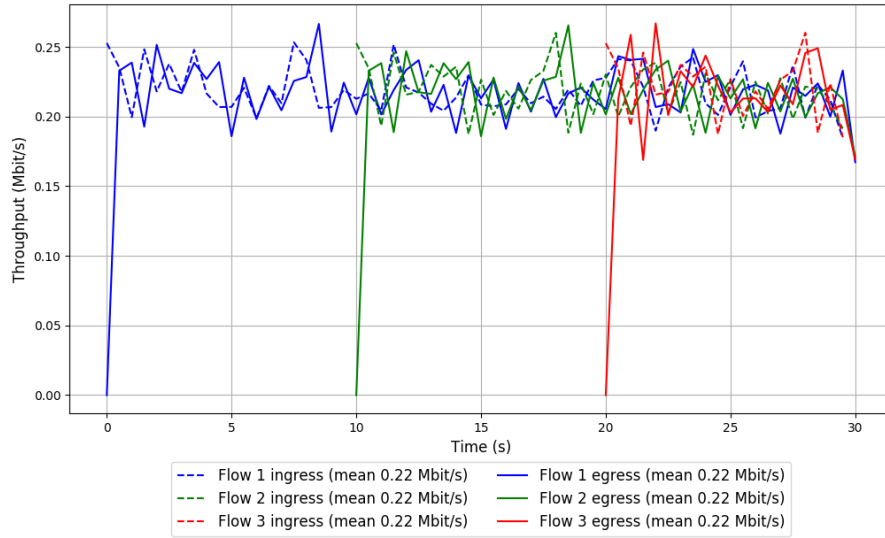
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 47.400 ms

Loss rate: 1.09%

### Run 5: Report of SCReAM — Data Link





Run 1: Statistics of Sprout

Start at: 2019-08-27 20:31:27  
End at: 2019-08-27 20:31:57  
Local clock offset: -0.287 ms  
Remote clock offset: -0.029 ms

# Below is generated by plot.py at 2019-08-28 01:56:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 18.93 Mbit/s  
95th percentile per-packet one-way delay: 47.634 ms  
Loss rate: 0.55%

-- Flow 1:

Average throughput: 9.56 Mbit/s  
95th percentile per-packet one-way delay: 47.585 ms  
Loss rate: 0.35%

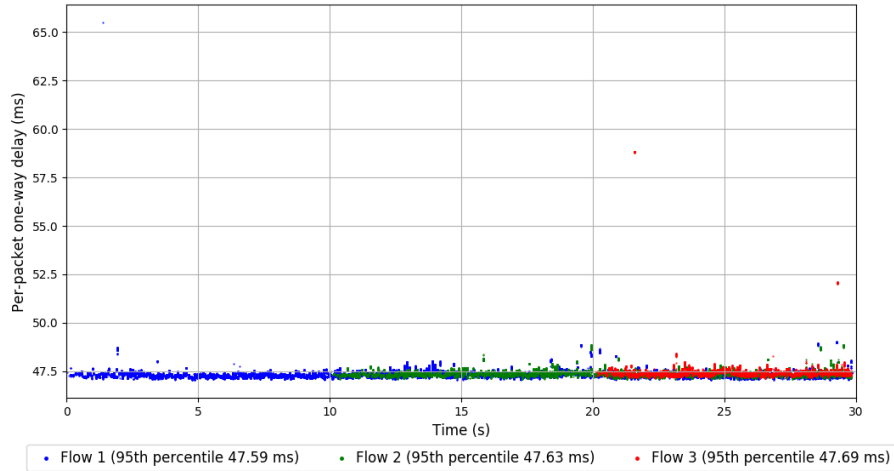
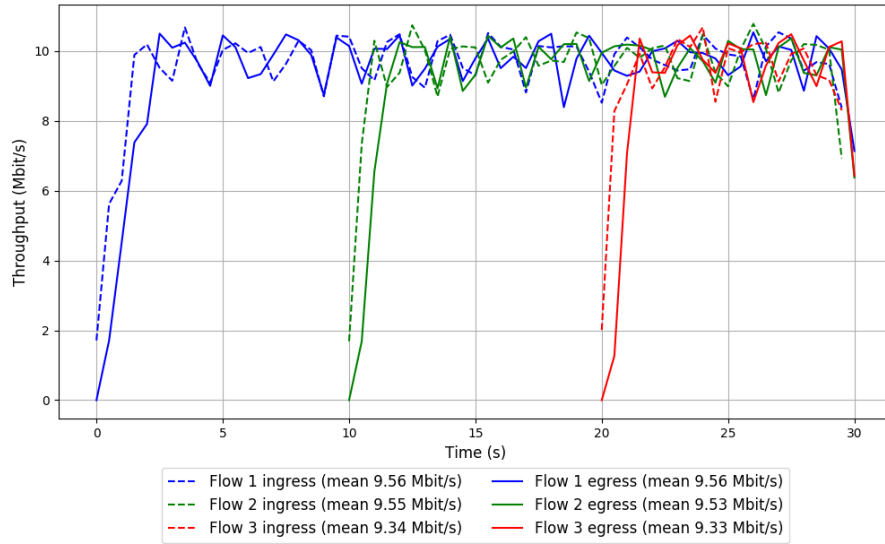
-- Flow 2:

Average throughput: 9.53 Mbit/s  
95th percentile per-packet one-way delay: 47.633 ms  
Loss rate: 0.61%

-- Flow 3:

Average throughput: 9.33 Mbit/s  
95th percentile per-packet one-way delay: 47.690 ms  
Loss rate: 1.04%

# Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2019-08-27 21:10:35  
End at: 2019-08-27 21:11:05  
Local clock offset: 0.257 ms  
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2019-08-28 01:56:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 18.70 Mbit/s  
95th percentile per-packet one-way delay: 47.574 ms  
Loss rate: 0.52%

-- Flow 1:

Average throughput: 9.41 Mbit/s  
95th percentile per-packet one-way delay: 47.613 ms  
Loss rate: 0.29%

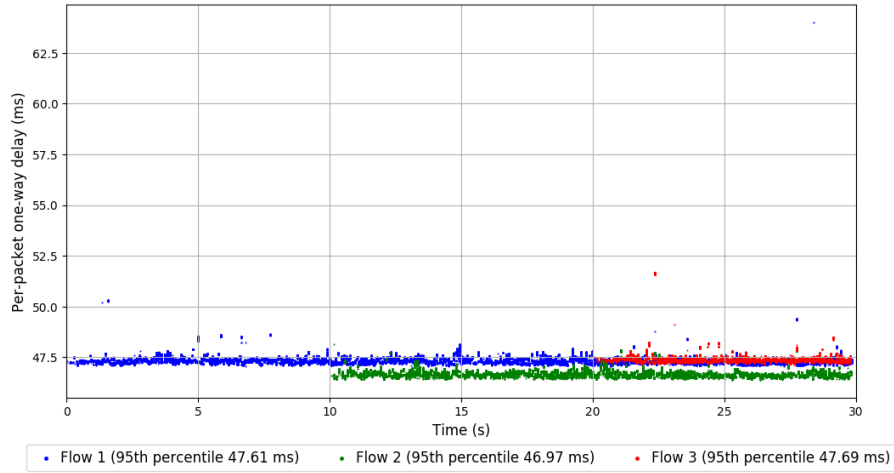
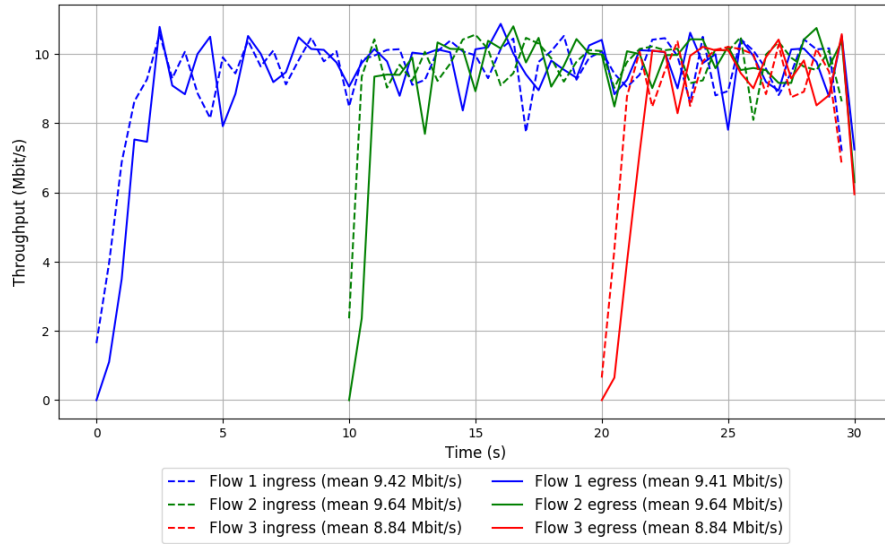
-- Flow 2:

Average throughput: 9.64 Mbit/s  
95th percentile per-packet one-way delay: 46.972 ms  
Loss rate: 0.61%

-- Flow 3:

Average throughput: 8.84 Mbit/s  
95th percentile per-packet one-way delay: 47.694 ms  
Loss rate: 1.04%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2019-08-27 21:49:48  
End at: 2019-08-27 21:50:18  
Local clock offset: -0.392 ms  
Remote clock offset: -0.014 ms

# Below is generated by plot.py at 2019-08-28 01:56:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 18.90 Mbit/s  
95th percentile per-packet one-way delay: 47.324 ms  
Loss rate: 0.50%

-- Flow 1:

Average throughput: 9.54 Mbit/s  
95th percentile per-packet one-way delay: 46.746 ms  
Loss rate: 0.35%

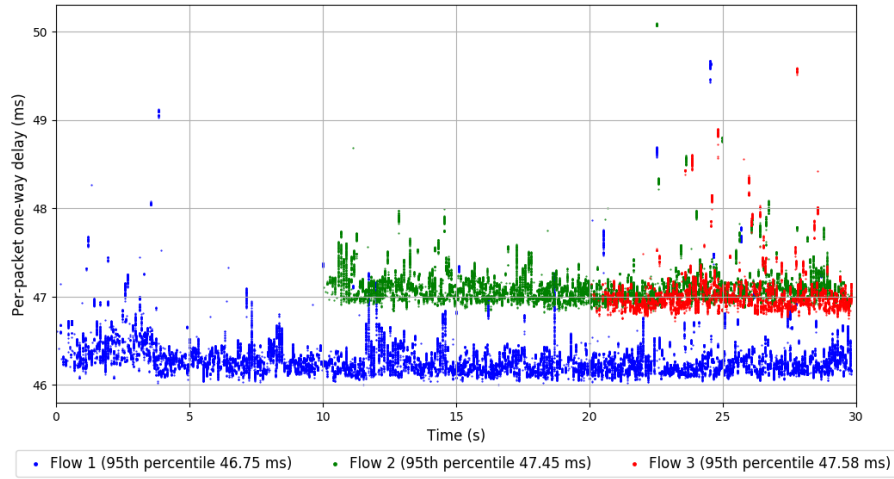
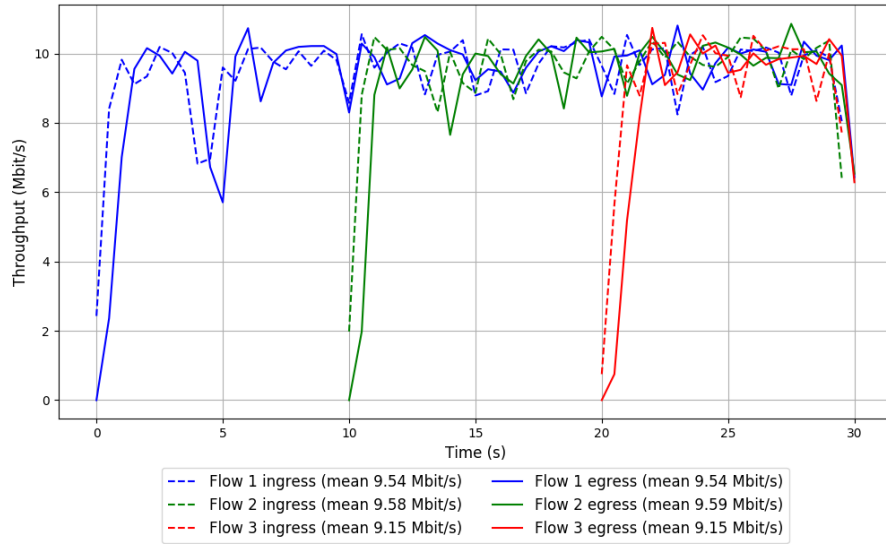
-- Flow 2:

Average throughput: 9.59 Mbit/s  
95th percentile per-packet one-way delay: 47.454 ms  
Loss rate: 0.50%

-- Flow 3:

Average throughput: 9.15 Mbit/s  
95th percentile per-packet one-way delay: 47.584 ms  
Loss rate: 0.96%

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



Run 4: Statistics of Sprout

Start at: 2019-08-27 22:29:03  
End at: 2019-08-27 22:29:33  
Local clock offset: -0.156 ms  
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2019-08-28 01:56:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 19.02 Mbit/s  
95th percentile per-packet one-way delay: 47.541 ms  
Loss rate: 0.47%

-- Flow 1:

Average throughput: 9.67 Mbit/s  
95th percentile per-packet one-way delay: 47.559 ms  
Loss rate: 0.29%

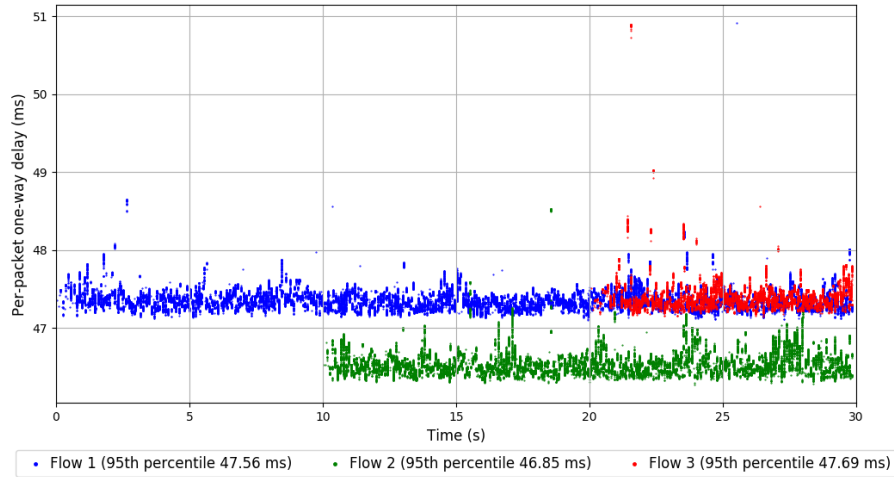
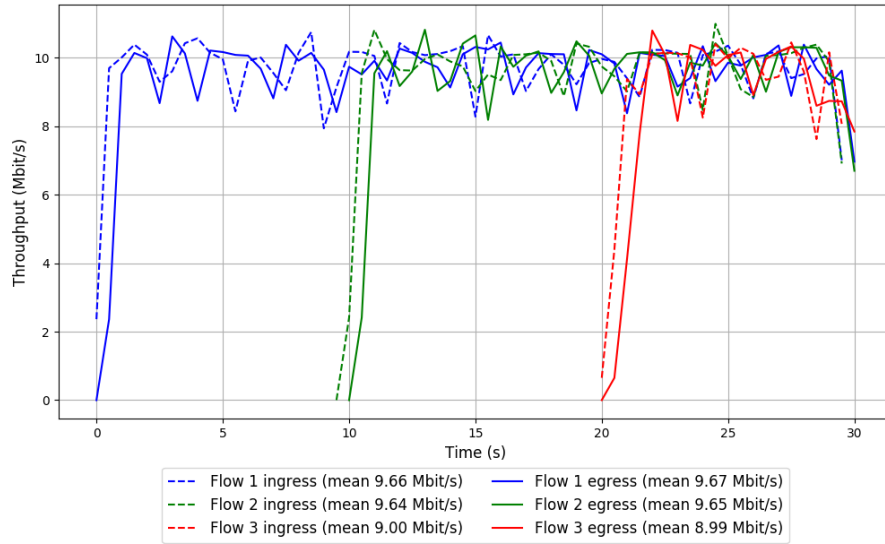
-- Flow 2:

Average throughput: 9.65 Mbit/s  
95th percentile per-packet one-way delay: 46.846 ms  
Loss rate: 0.44%

-- Flow 3:

Average throughput: 8.99 Mbit/s  
95th percentile per-packet one-way delay: 47.692 ms  
Loss rate: 1.14%

Run 4: Report of Sprout — Data Link





Run 5: Statistics of Sprout

Start at: 2019-08-27 23:08:17  
End at: 2019-08-27 23:08:47  
Local clock offset: 0.04 ms  
Remote clock offset: -0.112 ms

# Below is generated by plot.py at 2019-08-28 01:56:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 18.80 Mbit/s  
95th percentile per-packet one-way delay: 47.599 ms  
Loss rate: 0.45%

-- Flow 1:

Average throughput: 9.66 Mbit/s  
95th percentile per-packet one-way delay: 47.637 ms  
Loss rate: 0.34%

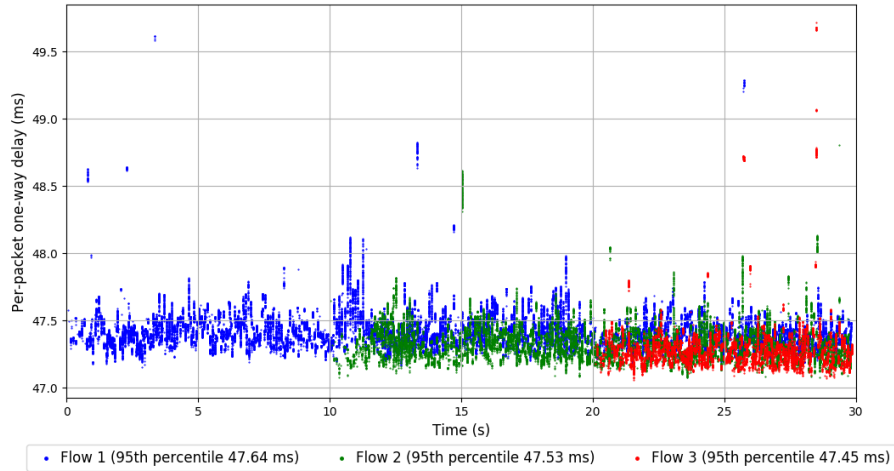
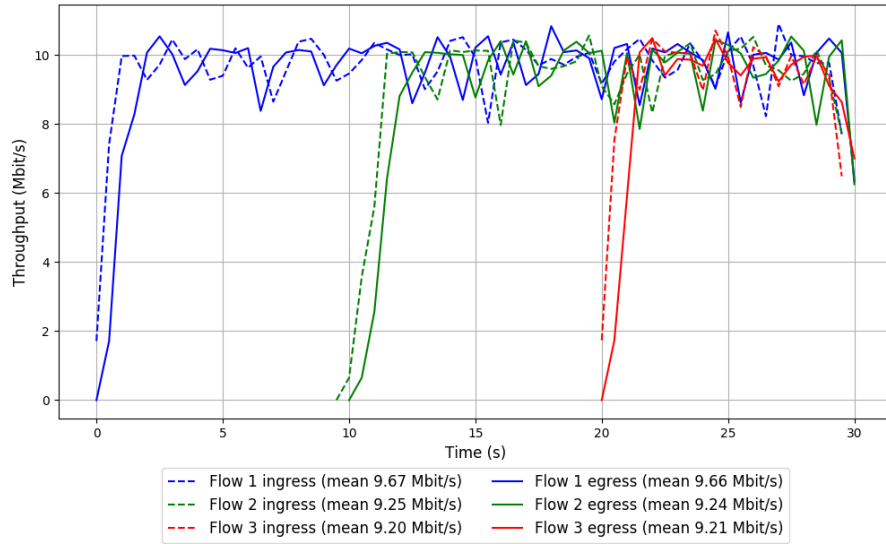
-- Flow 2:

Average throughput: 9.24 Mbit/s  
95th percentile per-packet one-way delay: 47.533 ms  
Loss rate: 0.55%

-- Flow 3:

Average throughput: 9.21 Mbit/s  
95th percentile per-packet one-way delay: 47.453 ms  
Loss rate: 0.62%

### Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2019-08-27 20:37:32

End at: 2019-08-27 20:38:02

Local clock offset: -0.184 ms

Remote clock offset: 0.011 ms

# Below is generated by plot.py at 2019-08-28 02:02:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 454.74 Mbit/s

95th percentile per-packet one-way delay: 48.822 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 230.40 Mbit/s

95th percentile per-packet one-way delay: 48.744 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 225.38 Mbit/s

95th percentile per-packet one-way delay: 48.872 ms

Loss rate: 0.47%

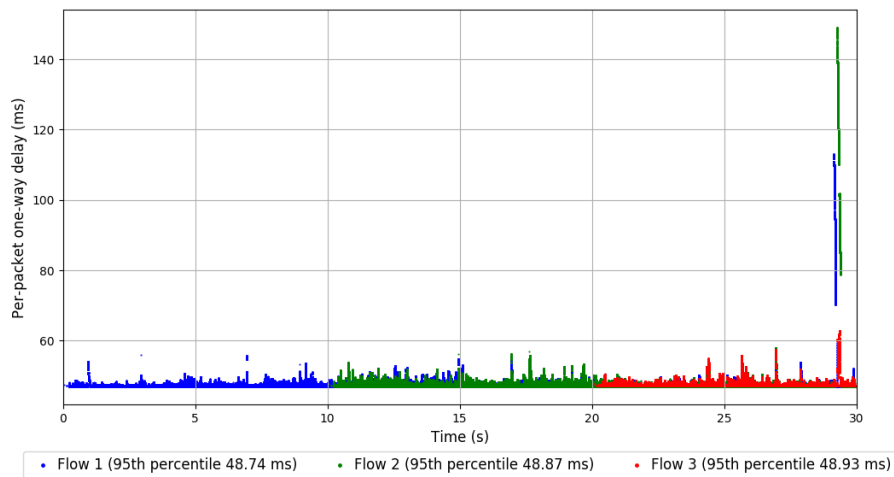
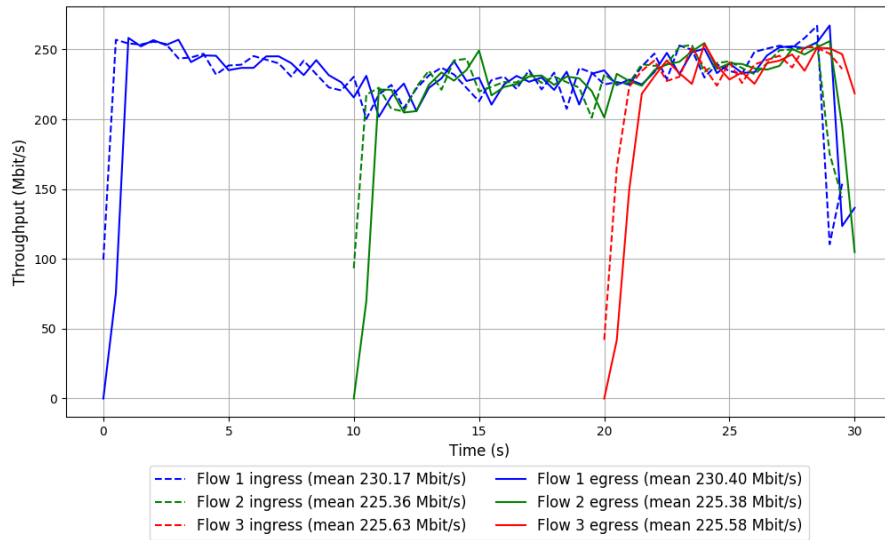
-- Flow 3:

Average throughput: 225.58 Mbit/s

95th percentile per-packet one-way delay: 48.933 ms

Loss rate: 0.97%

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-08-27 21:16:42  
End at: 2019-08-27 21:17:12  
Local clock offset: 0.261 ms  
Remote clock offset: -0.062 ms

# Below is generated by plot.py at 2019-08-28 02:03:04

# Datalink statistics

-- Total of 3 flows:

Average throughput: 472.58 Mbit/s  
95th percentile per-packet one-way delay: 49.321 ms  
Loss rate: 0.51%

-- Flow 1:

Average throughput: 242.77 Mbit/s  
95th percentile per-packet one-way delay: 48.138 ms  
Loss rate: 0.35%

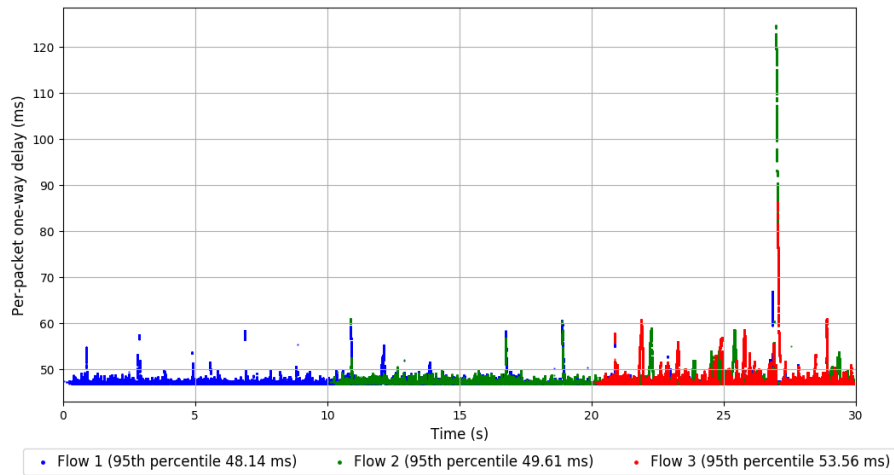
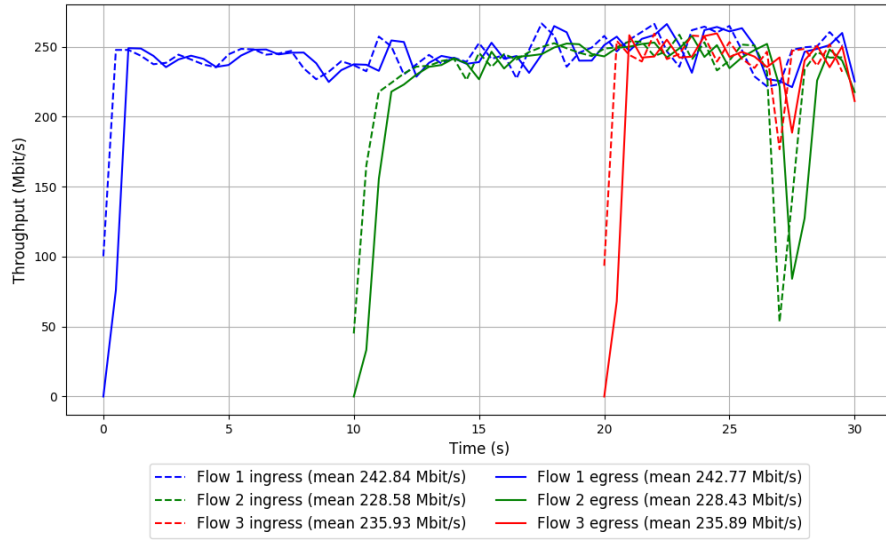
-- Flow 2:

Average throughput: 228.43 Mbit/s  
95th percentile per-packet one-way delay: 49.610 ms  
Loss rate: 0.54%

-- Flow 3:

Average throughput: 235.89 Mbit/s  
95th percentile per-packet one-way delay: 53.560 ms  
Loss rate: 0.96%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-08-27 21:55:54  
End at: 2019-08-27 21:56:24  
Local clock offset: -0.101 ms  
Remote clock offset: -0.031 ms

# Below is generated by plot.py at 2019-08-28 02:03:04

# Datalink statistics

-- Total of 3 flows:

Average throughput: 462.56 Mbit/s  
95th percentile per-packet one-way delay: 50.251 ms  
Loss rate: 0.49%

-- Flow 1:

Average throughput: 237.95 Mbit/s  
95th percentile per-packet one-way delay: 50.386 ms  
Loss rate: 0.33%

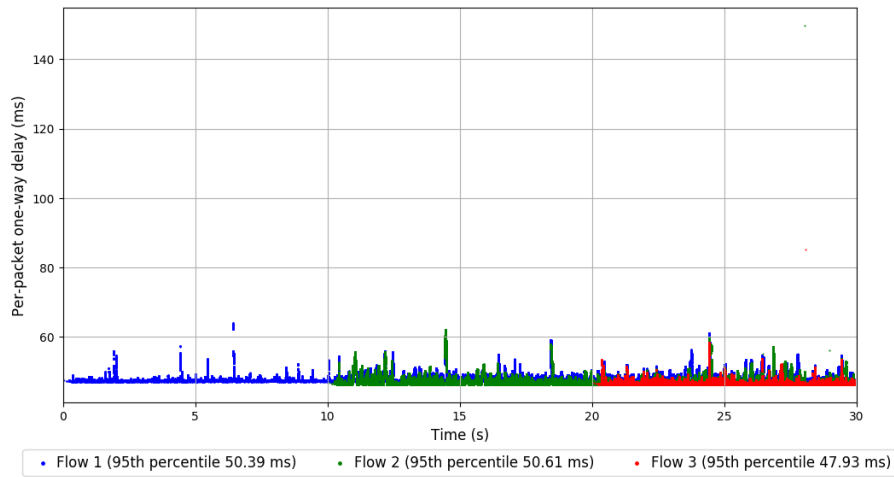
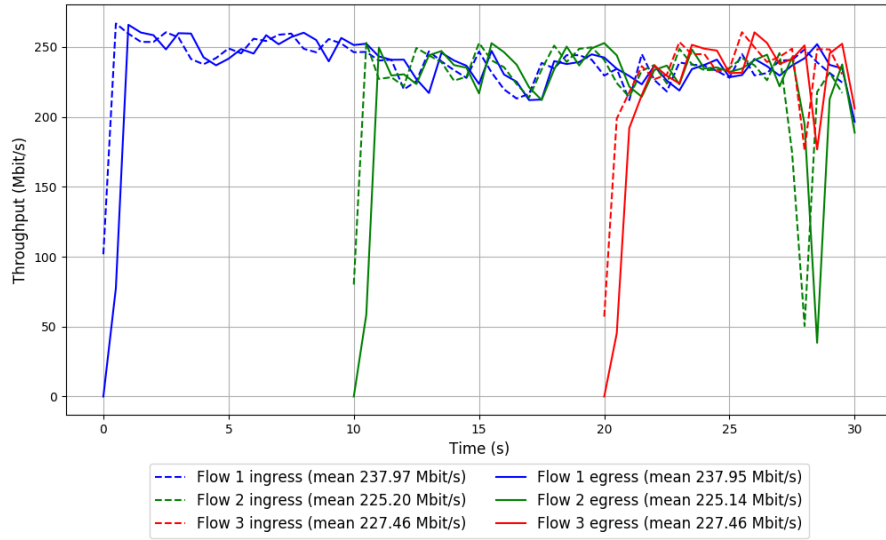
-- Flow 2:

Average throughput: 225.14 Mbit/s  
95th percentile per-packet one-way delay: 50.611 ms  
Loss rate: 0.51%

-- Flow 3:

Average throughput: 227.46 Mbit/s  
95th percentile per-packet one-way delay: 47.932 ms  
Loss rate: 0.97%

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





Run 4: Statistics of TaoVA-100x

Start at: 2019-08-27 22:35:09

End at: 2019-08-27 22:35:39

Local clock offset: -0.156 ms

Remote clock offset: -0.09 ms

# Below is generated by plot.py at 2019-08-28 02:03:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 462.50 Mbit/s

95th percentile per-packet one-way delay: 48.563 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 233.35 Mbit/s

95th percentile per-packet one-way delay: 48.622 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 228.76 Mbit/s

95th percentile per-packet one-way delay: 48.094 ms

Loss rate: 0.50%

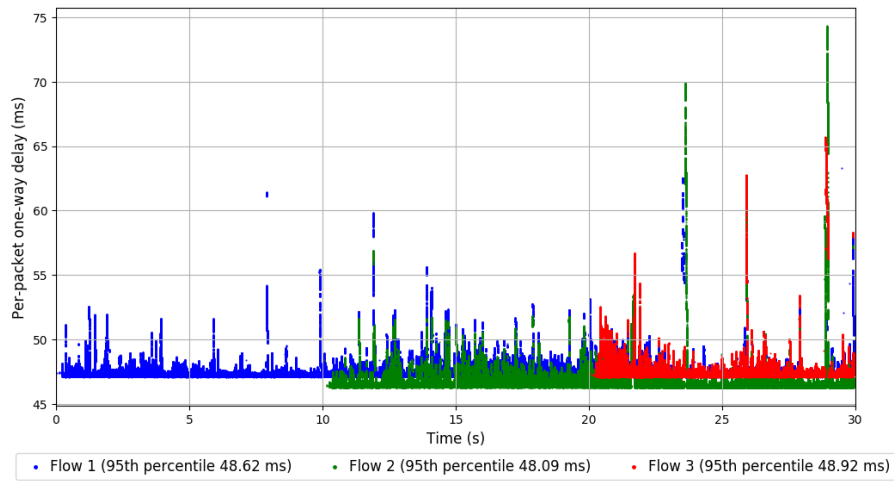
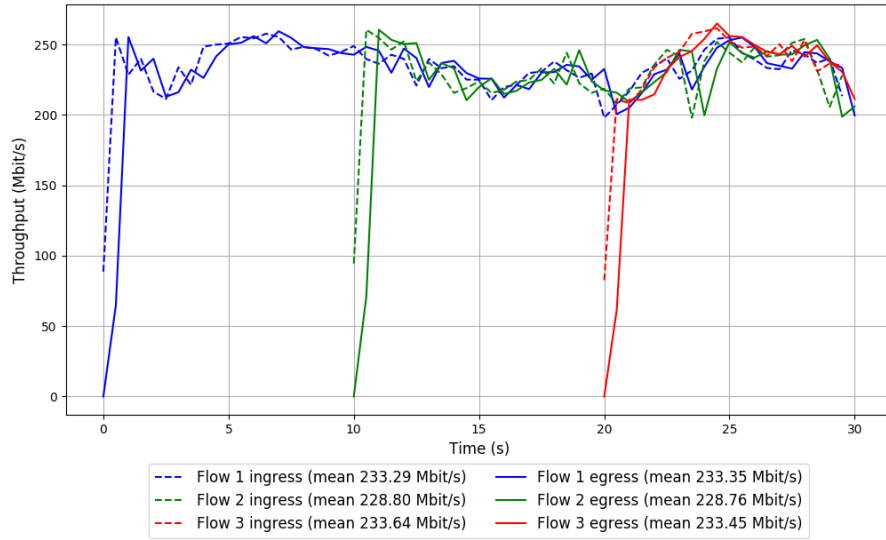
-- Flow 3:

Average throughput: 233.45 Mbit/s

95th percentile per-packet one-way delay: 48.917 ms

Loss rate: 1.04%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-08-27 23:14:22

End at: 2019-08-27 23:14:52

Local clock offset: 0.033 ms

Remote clock offset: -0.097 ms

# Below is generated by plot.py at 2019-08-28 02:03:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 464.94 Mbit/s

95th percentile per-packet one-way delay: 50.581 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 236.65 Mbit/s

95th percentile per-packet one-way delay: 50.100 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 233.50 Mbit/s

95th percentile per-packet one-way delay: 49.910 ms

Loss rate: 0.46%

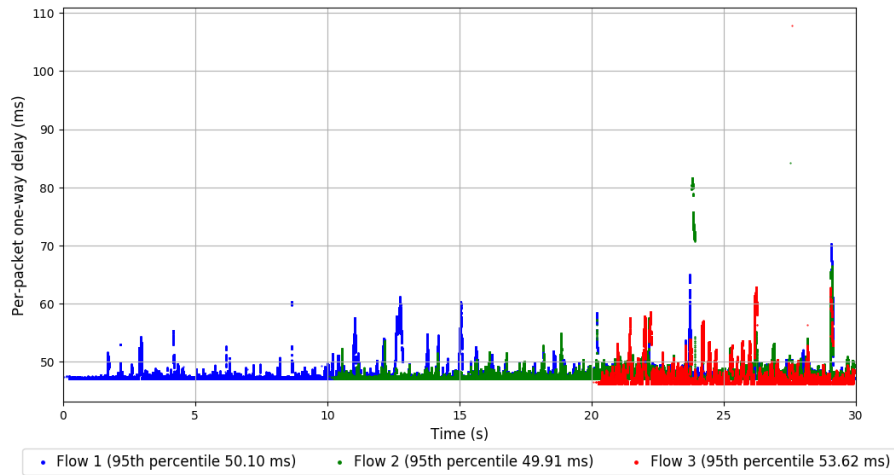
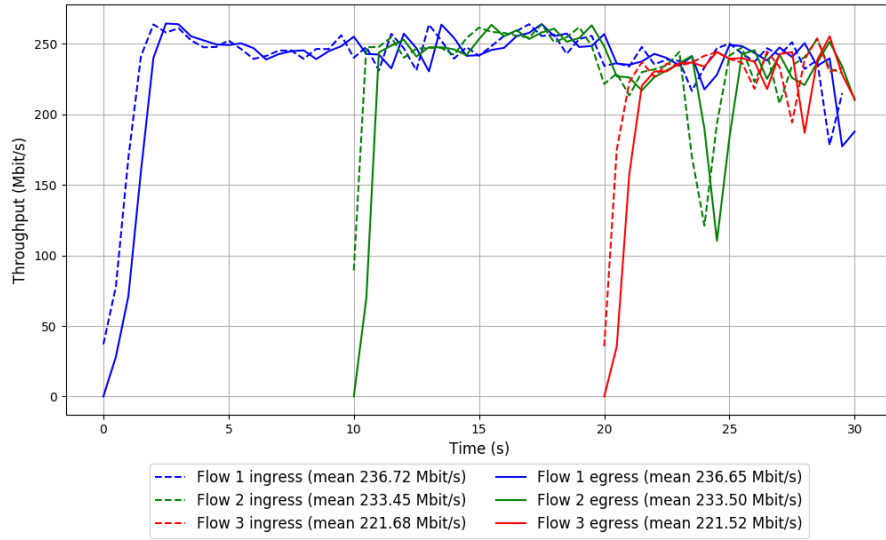
-- Flow 3:

Average throughput: 221.52 Mbit/s

95th percentile per-packet one-way delay: 53.624 ms

Loss rate: 1.03%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-08-27 20:20:31  
End at: 2019-08-27 20:21:01  
Local clock offset: -0.627 ms  
Remote clock offset: -0.022 ms

# Below is generated by plot.py at 2019-08-28 02:03:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 567.32 Mbit/s  
95th percentile per-packet one-way delay: 58.440 ms  
Loss rate: 0.36%

-- Flow 1:

Average throughput: 277.43 Mbit/s  
95th percentile per-packet one-way delay: 47.962 ms  
Loss rate: 0.30%

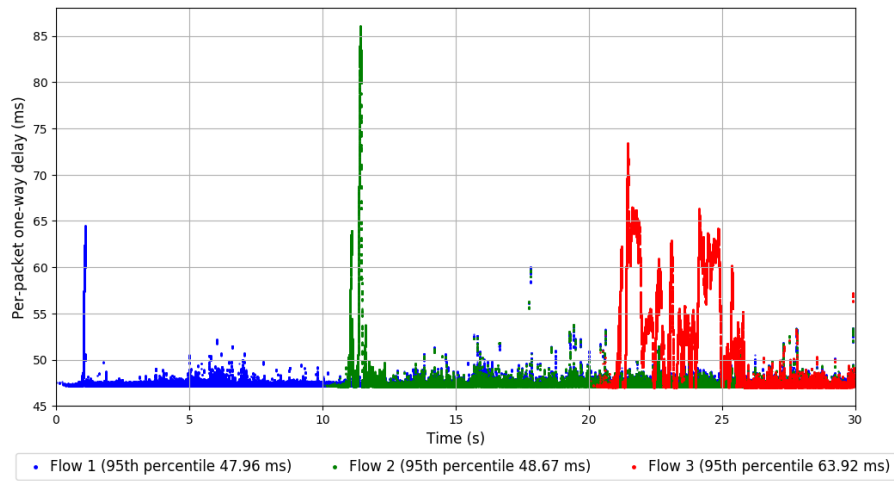
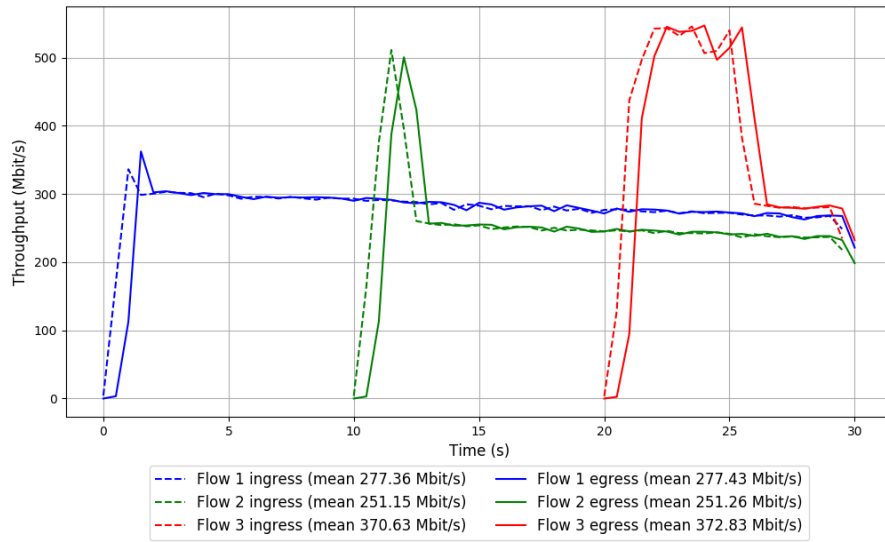
-- Flow 2:

Average throughput: 251.26 Mbit/s  
95th percentile per-packet one-way delay: 48.675 ms  
Loss rate: 0.44%

-- Flow 3:

Average throughput: 372.83 Mbit/s  
95th percentile per-packet one-way delay: 63.921 ms  
Loss rate: 0.38%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-08-27 20:59:21

End at: 2019-08-27 20:59:51

Local clock offset: 0.166 ms

Remote clock offset: 0.036 ms

# Below is generated by plot.py at 2019-08-28 02:06:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 661.50 Mbit/s

95th percentile per-packet one-way delay: 74.362 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 332.24 Mbit/s

95th percentile per-packet one-way delay: 73.772 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 355.70 Mbit/s

95th percentile per-packet one-way delay: 77.290 ms

Loss rate: 0.38%

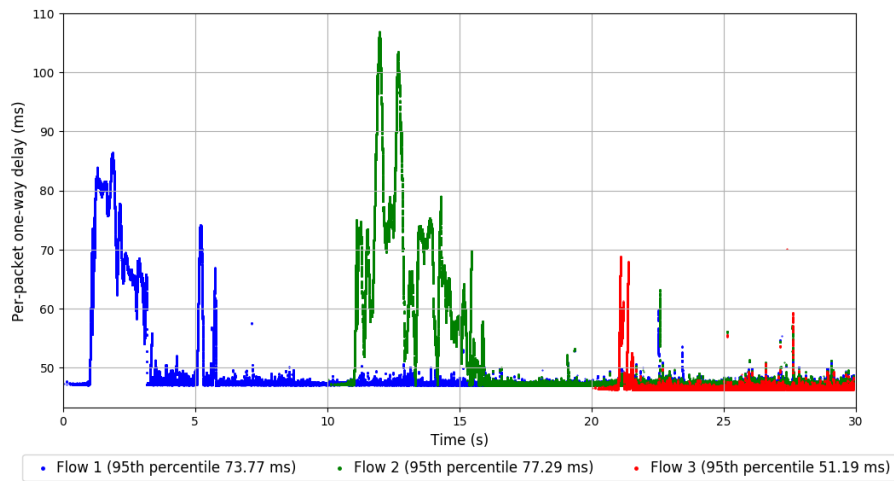
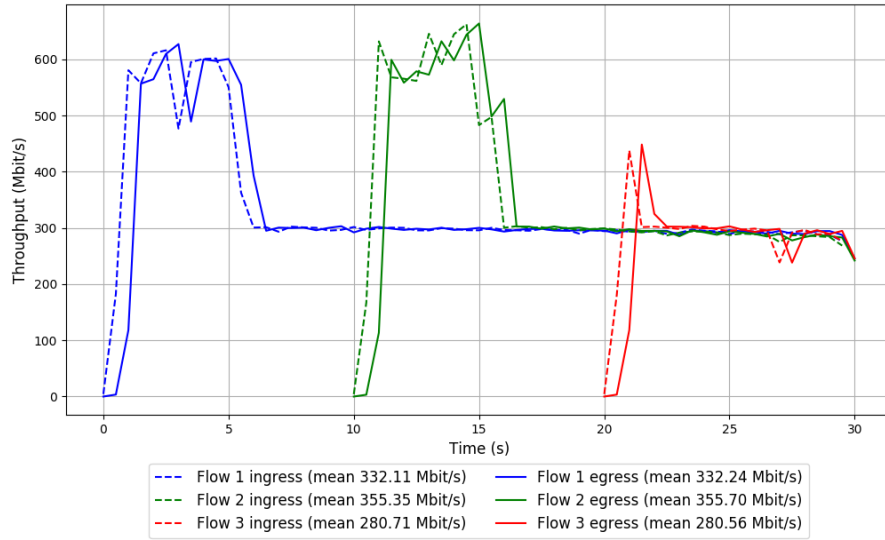
-- Flow 3:

Average throughput: 280.56 Mbit/s

95th percentile per-packet one-way delay: 51.193 ms

Loss rate: 0.98%

Run 2: Report of TCP Vegas — Data Link





Run 3: Statistics of TCP Vegas

Start at: 2019-08-27 21:38:30  
End at: 2019-08-27 21:39:00  
Local clock offset: 0.216 ms  
Remote clock offset: -0.048 ms

# Below is generated by plot.py at 2019-08-28 02:07:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 646.20 Mbit/s  
95th percentile per-packet one-way delay: 59.658 ms  
Loss rate: 0.42%

-- Flow 1:

Average throughput: 363.28 Mbit/s  
95th percentile per-packet one-way delay: 65.189 ms  
Loss rate: 0.23%

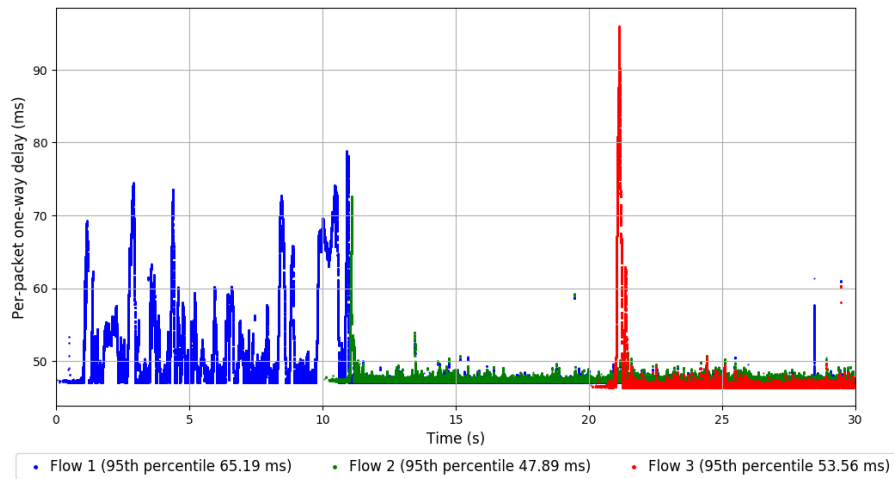
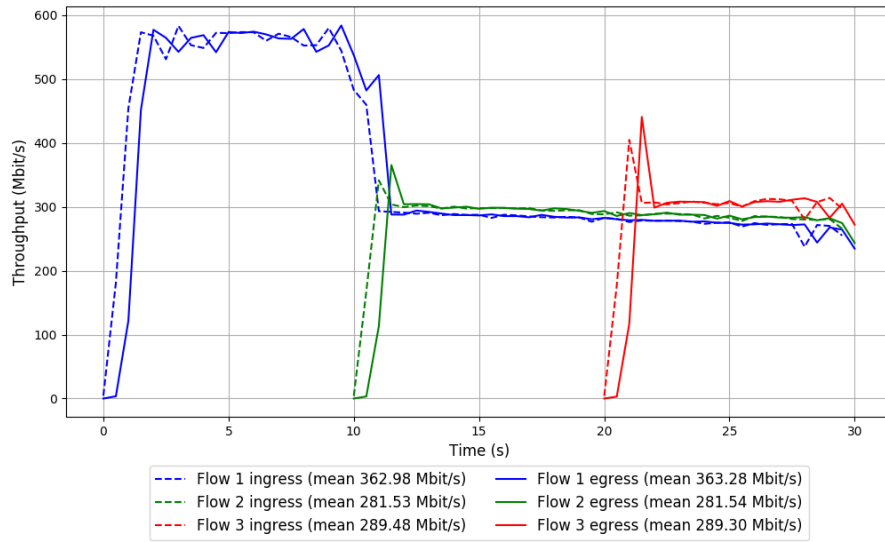
-- Flow 2:

Average throughput: 281.54 Mbit/s  
95th percentile per-packet one-way delay: 47.891 ms  
Loss rate: 0.47%

-- Flow 3:

Average throughput: 289.30 Mbit/s  
95th percentile per-packet one-way delay: 53.556 ms  
Loss rate: 1.01%

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



Run 4: Statistics of TCP Vegas

Start at: 2019-08-27 22:17:42  
End at: 2019-08-27 22:18:12  
Local clock offset: -0.132 ms  
Remote clock offset: -0.053 ms

# Below is generated by plot.py at 2019-08-28 02:08:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 595.88 Mbit/s  
95th percentile per-packet one-way delay: 47.780 ms  
Loss rate: 0.49%

-- Flow 1:

Average throughput: 304.12 Mbit/s  
95th percentile per-packet one-way delay: 47.646 ms  
Loss rate: 0.33%

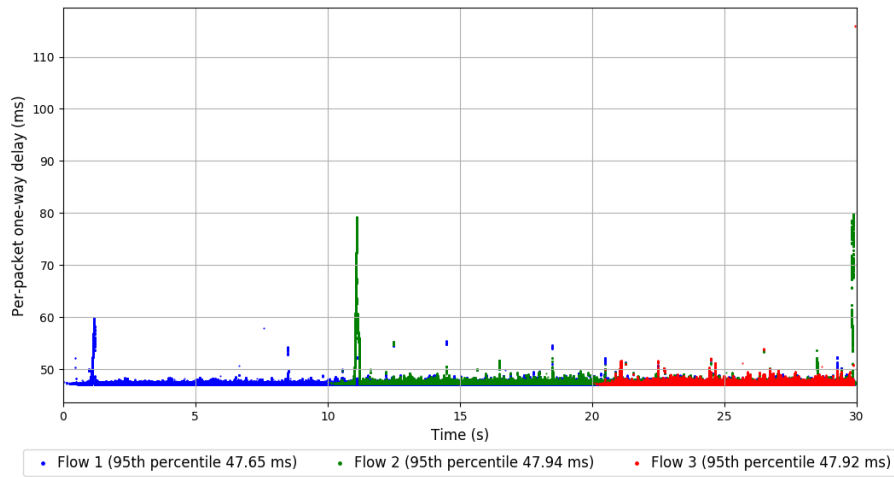
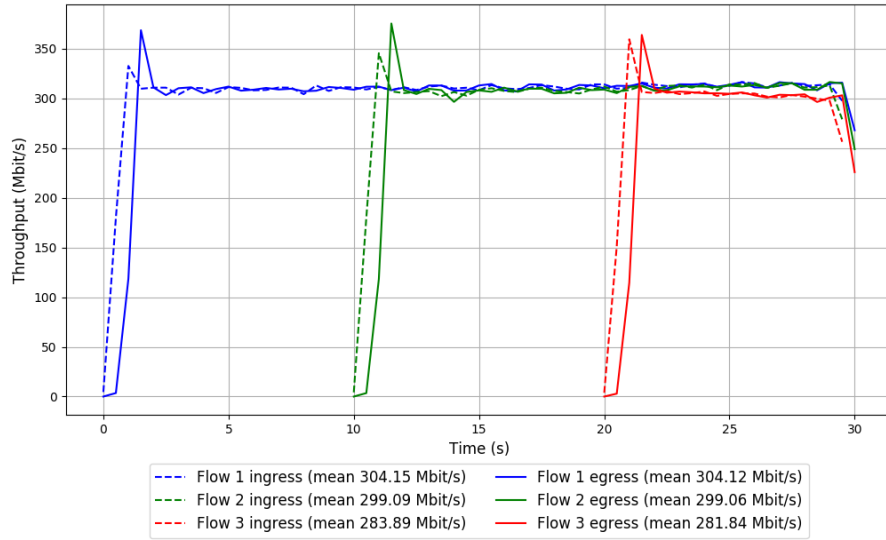
-- Flow 2:

Average throughput: 299.06 Mbit/s  
95th percentile per-packet one-way delay: 47.939 ms  
Loss rate: 0.49%

-- Flow 3:

Average throughput: 281.84 Mbit/s  
95th percentile per-packet one-way delay: 47.925 ms  
Loss rate: 1.02%

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



Run 5: Statistics of TCP Vegas

Start at: 2019-08-27 22:56:43  
End at: 2019-08-27 22:57:13  
Local clock offset: -0.013 ms  
Remote clock offset: -0.103 ms

# Below is generated by plot.py at 2019-08-28 02:13:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 727.34 Mbit/s  
95th percentile per-packet one-way delay: 63.817 ms  
Loss rate: 0.31%

-- Flow 1:

Average throughput: 330.79 Mbit/s  
95th percentile per-packet one-way delay: 54.612 ms  
Loss rate: 0.26%

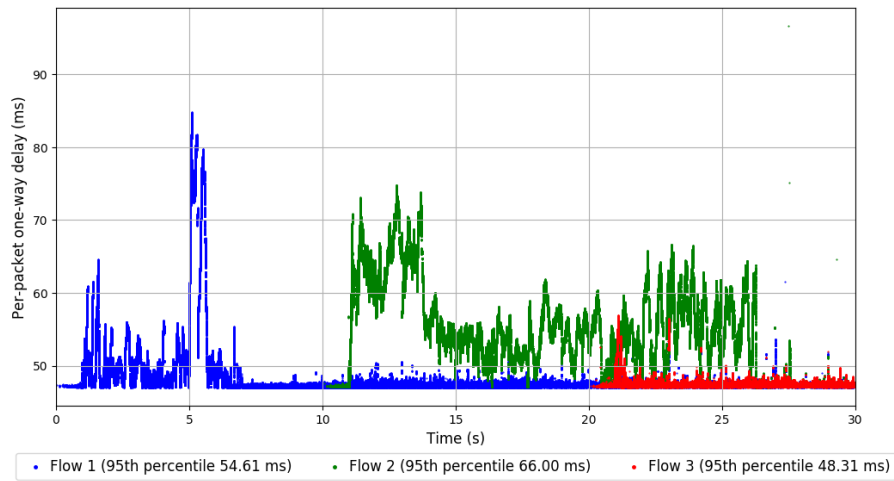
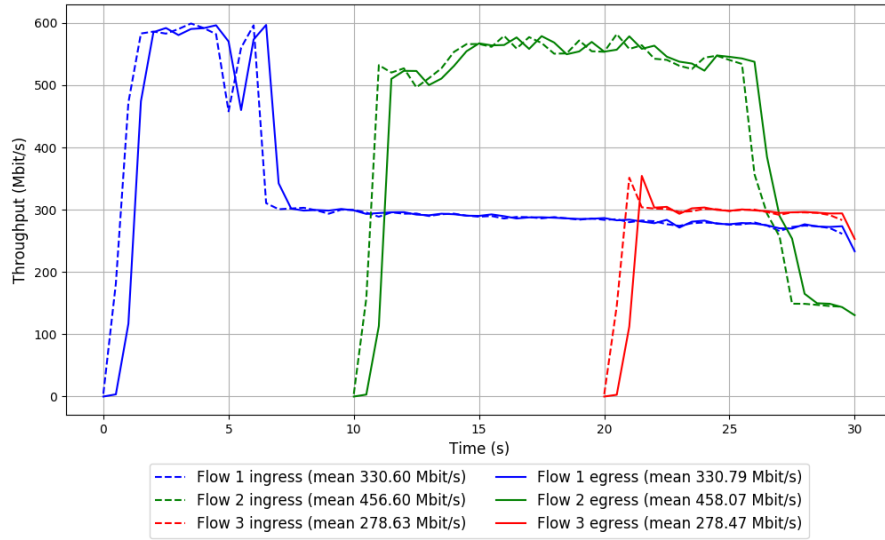
-- Flow 2:

Average throughput: 458.07 Mbit/s  
95th percentile per-packet one-way delay: 66.005 ms  
Loss rate: 0.16%

-- Flow 3:

Average throughput: 278.47 Mbit/s  
95th percentile per-packet one-way delay: 48.312 ms  
Loss rate: 1.00%

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



Run 1: Statistics of Verus

Start at: 2019-08-27 20:28:19  
End at: 2019-08-27 20:28:49  
Local clock offset: -0.853 ms  
Remote clock offset: -0.017 ms

# Below is generated by plot.py at 2019-08-28 02:13:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 275.27 Mbit/s  
95th percentile per-packet one-way delay: 92.428 ms  
Loss rate: 0.34%

-- Flow 1:

Average throughput: 196.78 Mbit/s  
95th percentile per-packet one-way delay: 94.836 ms  
Loss rate: 0.24%

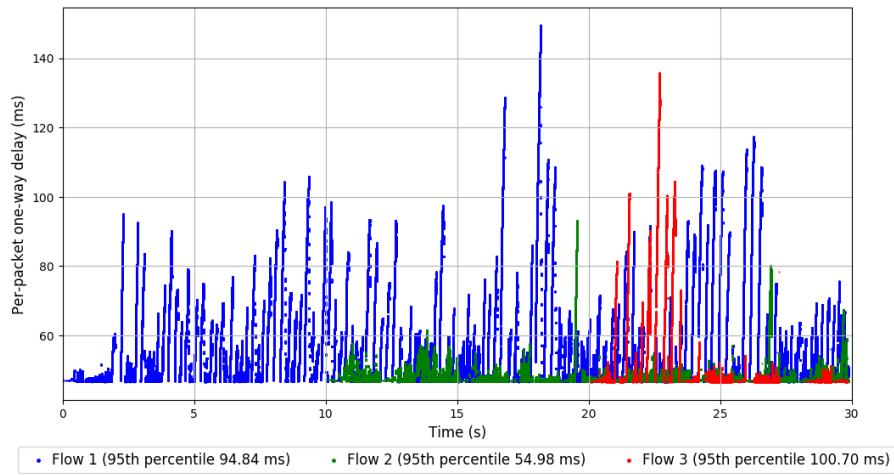
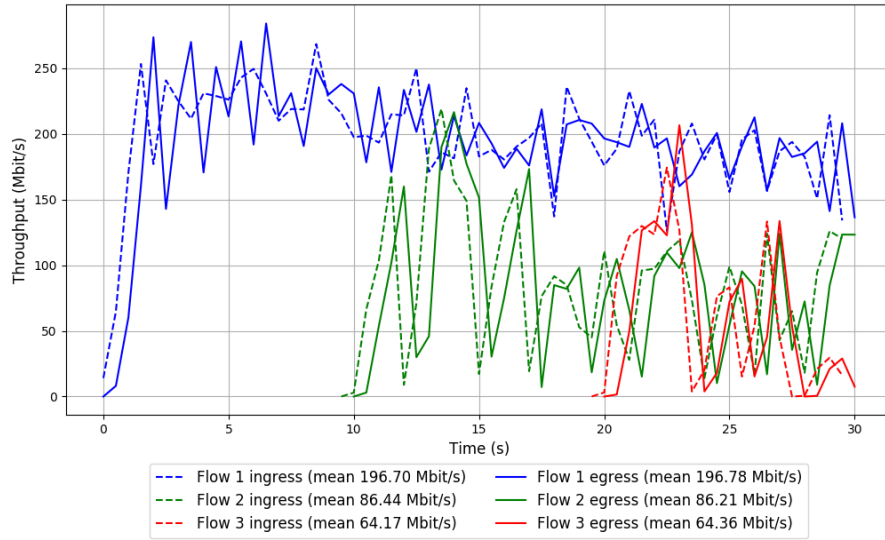
-- Flow 2:

Average throughput: 86.21 Mbit/s  
95th percentile per-packet one-way delay: 54.978 ms  
Loss rate: 0.54%

-- Flow 3:

Average throughput: 64.36 Mbit/s  
95th percentile per-packet one-way delay: 100.704 ms  
Loss rate: 0.74%

Run 1: Report of Verus — Data Link



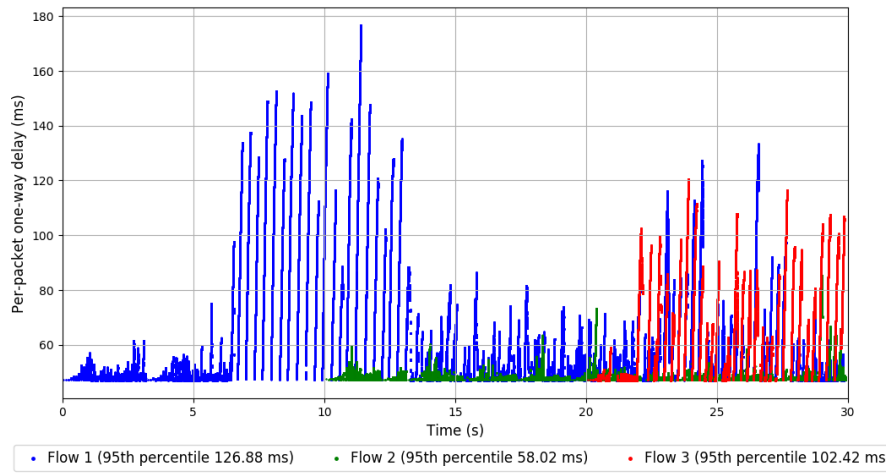
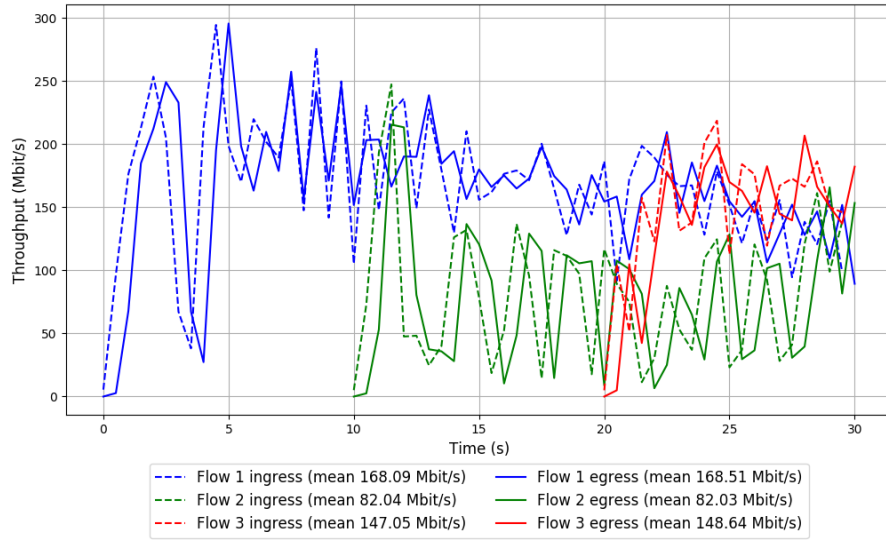


Run 2: Statistics of Verus

Start at: 2019-08-27 21:07:23  
End at: 2019-08-27 21:07:53  
Local clock offset: 0.224 ms  
Remote clock offset: -0.017 ms

```
# Below is generated by plot.py at 2019-08-28 02:13:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 271.34 Mbit/s
95th percentile per-packet one-way delay: 118.125 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 168.51 Mbit/s
95th percentile per-packet one-way delay: 126.880 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 82.03 Mbit/s
95th percentile per-packet one-way delay: 58.019 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 148.64 Mbit/s
95th percentile per-packet one-way delay: 102.422 ms
Loss rate: 0.43%
```

## Run 2: Report of Verus — Data Link

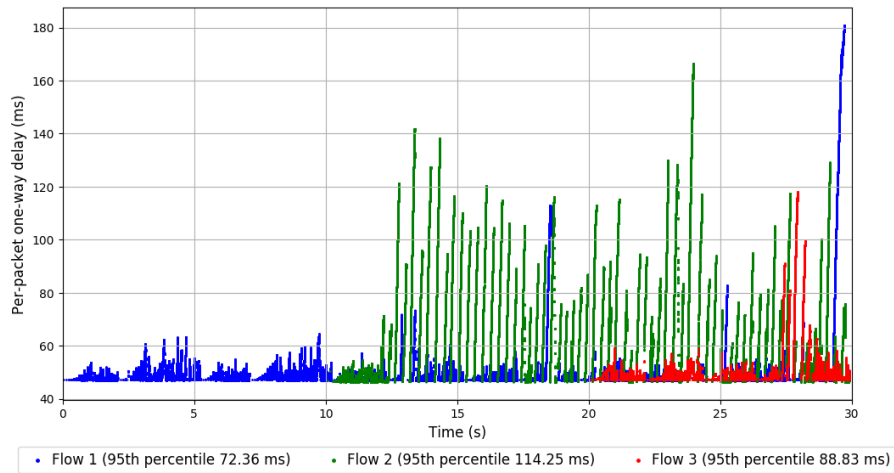
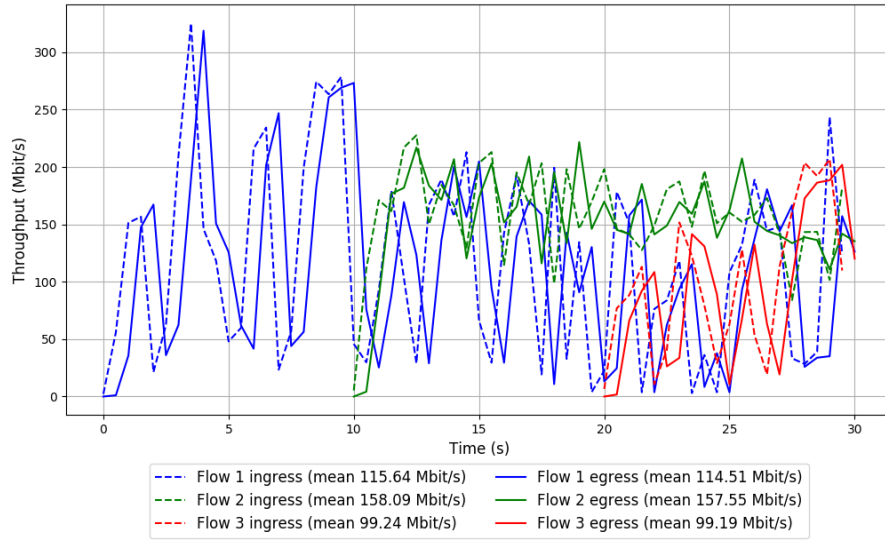


Run 3: Statistics of Verus

Start at: 2019-08-27 21:46:41  
End at: 2019-08-27 21:47:11  
Local clock offset: -0.034 ms  
Remote clock offset: -0.026 ms

# Below is generated by plot.py at 2019-08-28 02:13:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 251.93 Mbit/s  
95th percentile per-packet one-way delay: 107.756 ms  
Loss rate: 1.00%  
-- Flow 1:  
Average throughput: 114.51 Mbit/s  
95th percentile per-packet one-way delay: 72.364 ms  
Loss rate: 1.30%  
-- Flow 2:  
Average throughput: 157.55 Mbit/s  
95th percentile per-packet one-way delay: 114.249 ms  
Loss rate: 0.74%  
-- Flow 3:  
Average throughput: 99.19 Mbit/s  
95th percentile per-packet one-way delay: 88.831 ms  
Loss rate: 0.79%

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

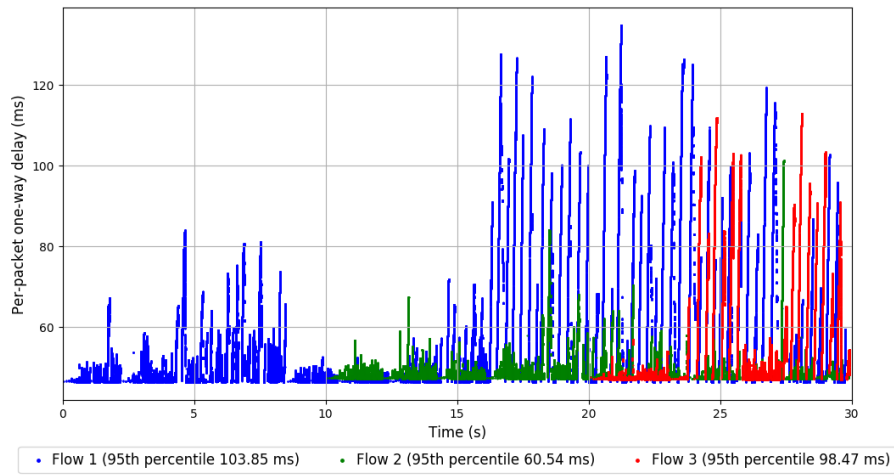
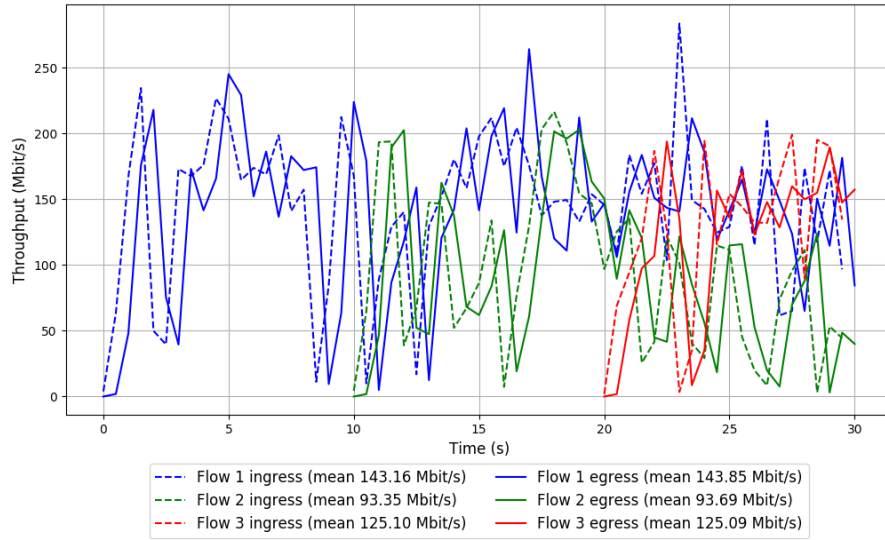


Run 4: Statistics of Verus

Start at: 2019-08-27 22:25:50  
End at: 2019-08-27 22:26:20  
Local clock offset: -0.122 ms  
Remote clock offset: -0.1 ms

```
# Below is generated by plot.py at 2019-08-28 02:13:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 246.56 Mbit/s
95th percentile per-packet one-way delay: 98.896 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 143.85 Mbit/s
95th percentile per-packet one-way delay: 103.853 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 93.69 Mbit/s
95th percentile per-packet one-way delay: 60.543 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 125.09 Mbit/s
95th percentile per-packet one-way delay: 98.466 ms
Loss rate: 1.04%
```

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

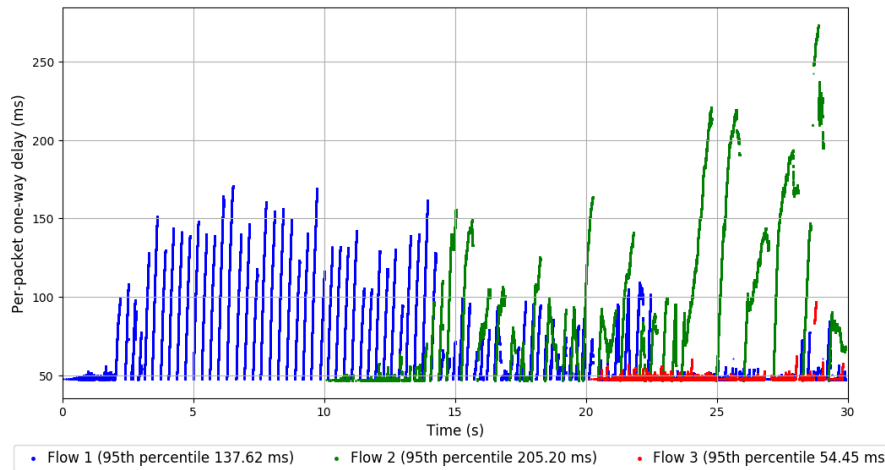
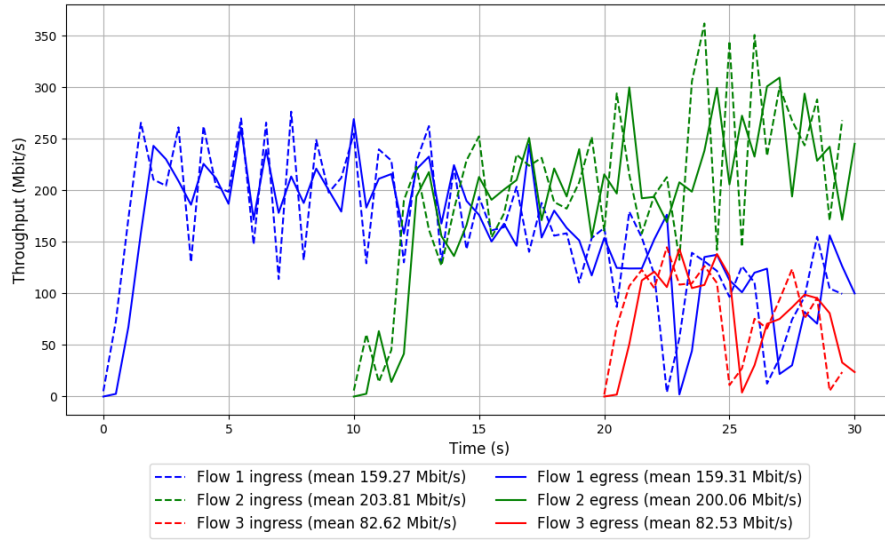


Run 5: Statistics of Verus

Start at: 2019-08-27 23:04:58  
End at: 2019-08-27 23:05:28  
Local clock offset: 0.38 ms  
Remote clock offset: -0.101 ms

```
# Below is generated by plot.py at 2019-08-28 02:15:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 319.11 Mbit/s
95th percentile per-packet one-way delay: 168.984 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 159.31 Mbit/s
95th percentile per-packet one-way delay: 137.615 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 200.06 Mbit/s
95th percentile per-packet one-way delay: 205.201 ms
Loss rate: 2.31%
-- Flow 3:
Average throughput: 82.53 Mbit/s
95th percentile per-packet one-way delay: 54.449 ms
Loss rate: 0.00%
```

### Run 5: Report of Verus — Data Link





Run 1: Statistics of PCC-Vivace

Start at: 2019-08-27 20:45:56

End at: 2019-08-27 20:46:26

Local clock offset: 0.048 ms

Remote clock offset: 0.004 ms

# Below is generated by plot.py at 2019-08-28 02:15:08

# Datalink statistics

-- Total of 3 flows:

Average throughput: 510.52 Mbit/s

95th percentile per-packet one-way delay: 62.005 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 320.43 Mbit/s

95th percentile per-packet one-way delay: 64.152 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 270.92 Mbit/s

95th percentile per-packet one-way delay: 54.503 ms

Loss rate: 0.47%

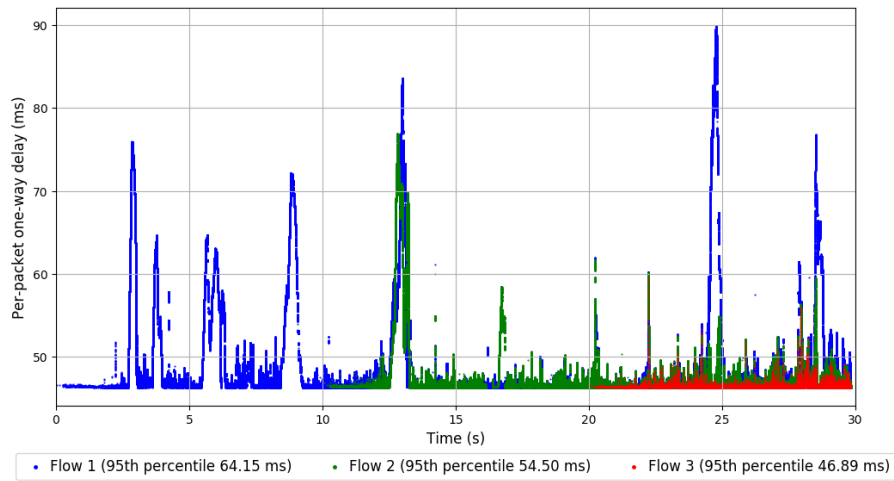
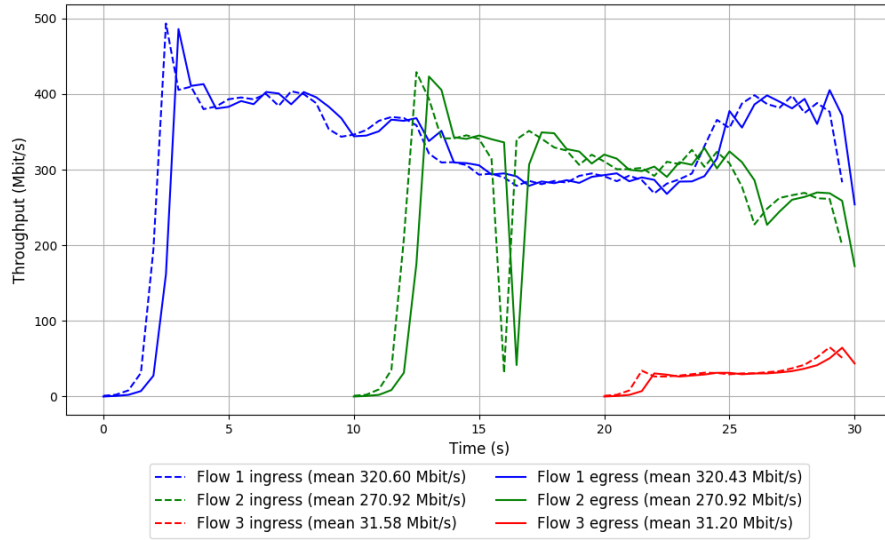
-- Flow 3:

Average throughput: 31.20 Mbit/s

95th percentile per-packet one-way delay: 46.889 ms

Loss rate: 2.22%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-08-27 21:25:11

End at: 2019-08-27 21:25:41

Local clock offset: 0.296 ms

Remote clock offset: -0.062 ms

# Below is generated by plot.py at 2019-08-28 02:15:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 522.17 Mbit/s

95th percentile per-packet one-way delay: 124.099 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 327.53 Mbit/s

95th percentile per-packet one-way delay: 155.631 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 237.21 Mbit/s

95th percentile per-packet one-way delay: 49.183 ms

Loss rate: 0.40%

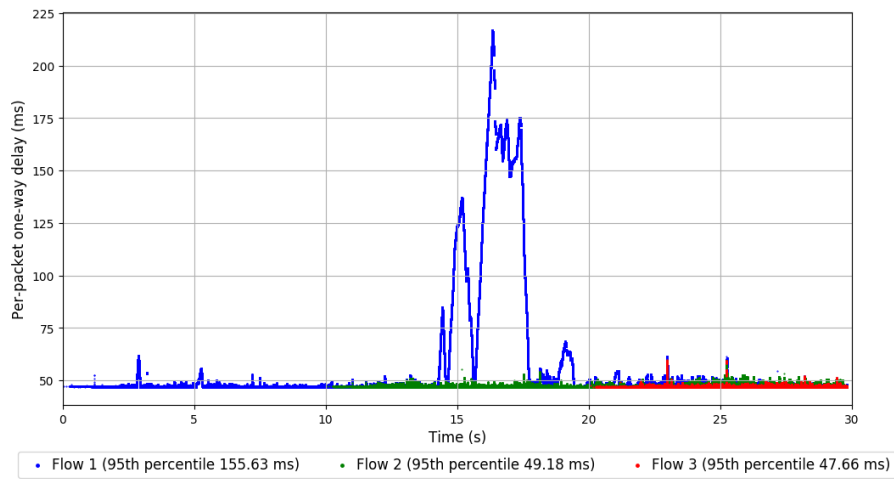
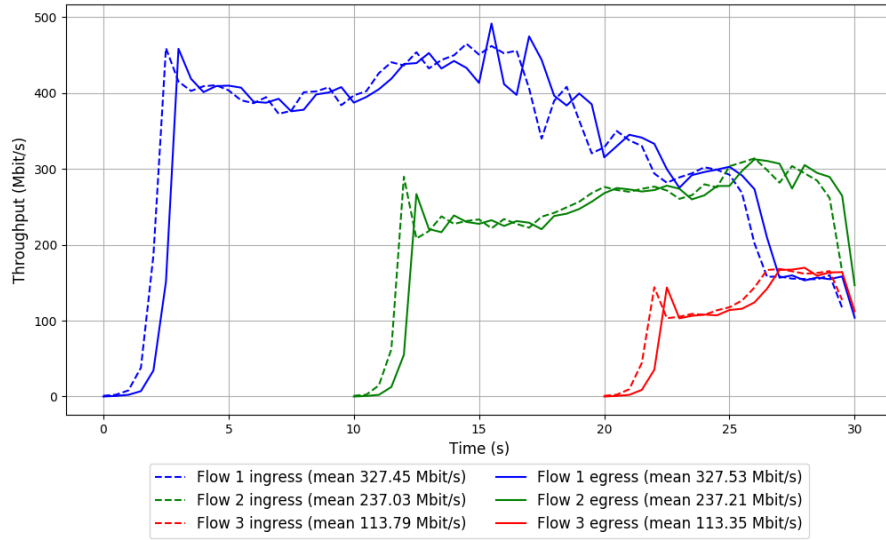
-- Flow 3:

Average throughput: 113.35 Mbit/s

95th percentile per-packet one-way delay: 47.657 ms

Loss rate: 1.38%

Run 2: Report of PCC-Vivace — Data Link

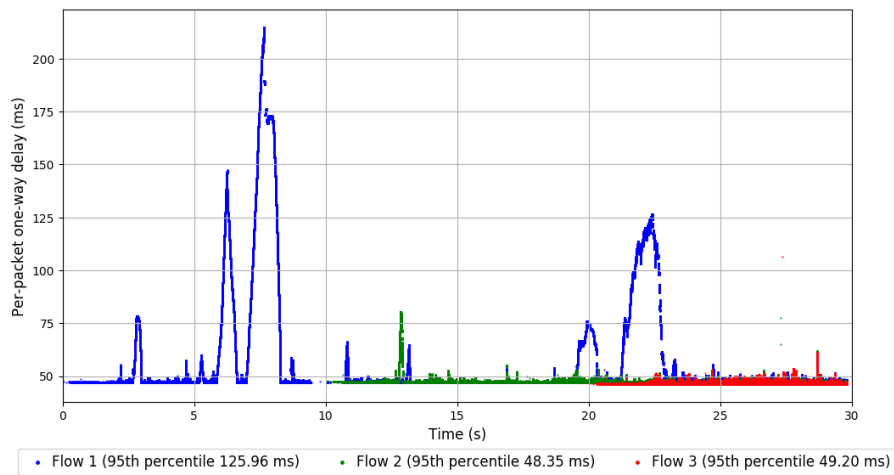
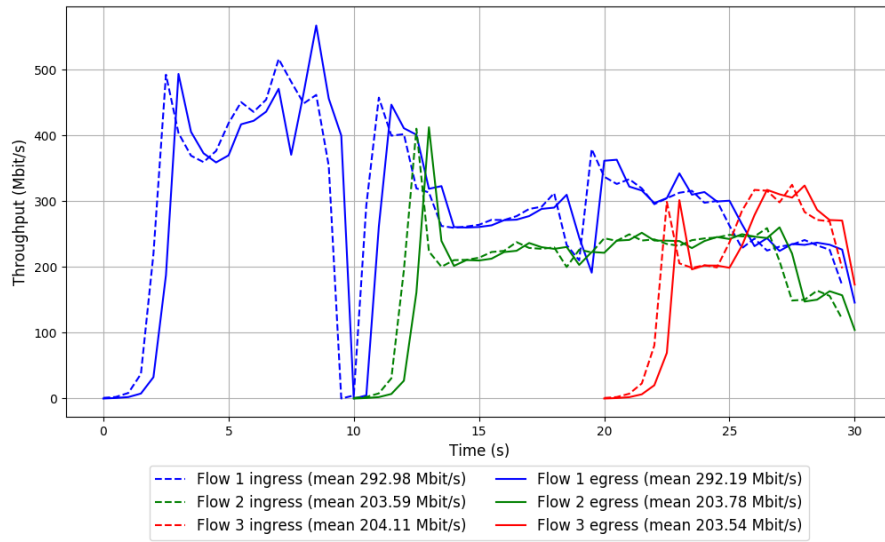


Run 3: Statistics of PCC-Vivace

Start at: 2019-08-27 22:04:24  
End at: 2019-08-27 22:04:54  
Local clock offset: -0.157 ms  
Remote clock offset: -0.003 ms

```
# Below is generated by plot.py at 2019-08-28 02:16:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 494.13 Mbit/s
95th percentile per-packet one-way delay: 110.153 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 292.19 Mbit/s
95th percentile per-packet one-way delay: 125.964 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 203.78 Mbit/s
95th percentile per-packet one-way delay: 48.353 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 203.54 Mbit/s
95th percentile per-packet one-way delay: 49.201 ms
Loss rate: 1.25%
```

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



Run 4: Statistics of PCC-Vivace

Start at: 2019-08-27 22:43:30  
End at: 2019-08-27 22:44:00  
Local clock offset: -0.067 ms  
Remote clock offset: -0.118 ms

# Below is generated by plot.py at 2019-08-28 02:16:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 400.85 Mbit/s  
95th percentile per-packet one-way delay: 47.407 ms  
Loss rate: 0.38%

-- Flow 1:

Average throughput: 226.54 Mbit/s  
95th percentile per-packet one-way delay: 46.958 ms  
Loss rate: 0.18%

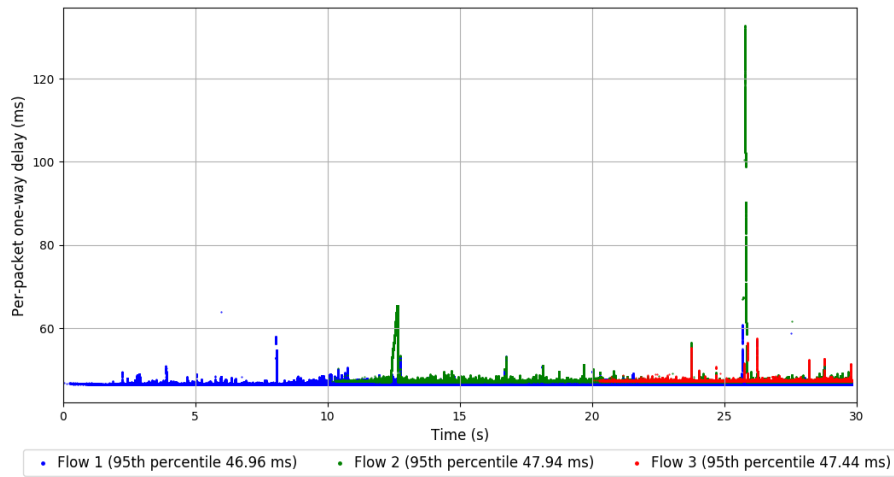
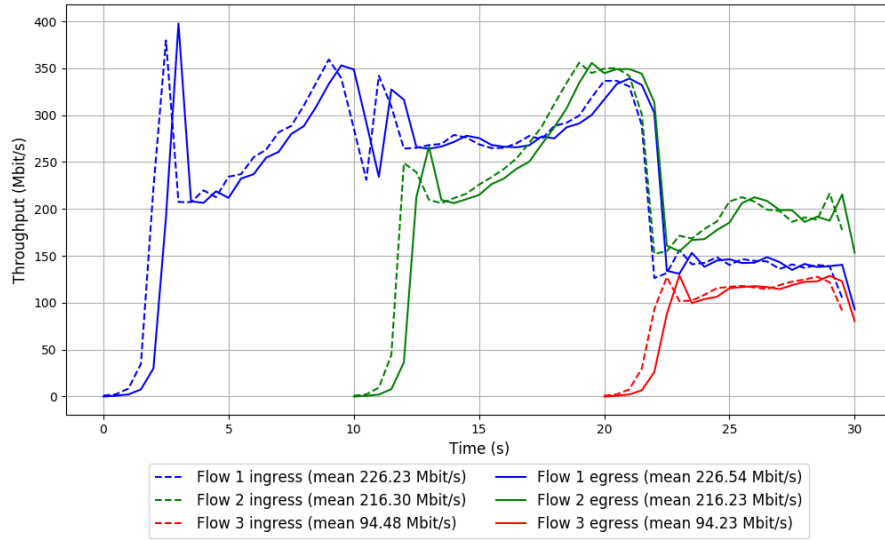
-- Flow 2:

Average throughput: 216.23 Mbit/s  
95th percentile per-packet one-way delay: 47.937 ms  
Loss rate: 0.52%

-- Flow 3:

Average throughput: 94.23 Mbit/s  
95th percentile per-packet one-way delay: 47.435 ms  
Loss rate: 1.22%

Run 4: Report of PCC-Vivace — Data Link





Run 5: Statistics of PCC-Vivace

Start at: 2019-08-27 23:22:56  
End at: 2019-08-27 23:23:26  
Local clock offset: -0.052 ms  
Remote clock offset: -0.084 ms

# Below is generated by plot.py at 2019-08-28 02:16:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 379.62 Mbit/s  
95th percentile per-packet one-way delay: 49.254 ms  
Loss rate: 0.53%

-- Flow 1:

Average throughput: 238.51 Mbit/s  
95th percentile per-packet one-way delay: 50.773 ms  
Loss rate: 0.34%

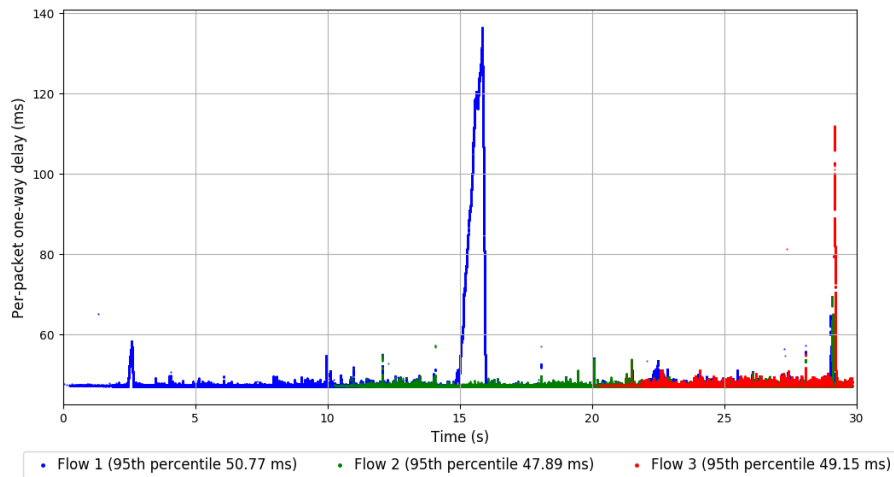
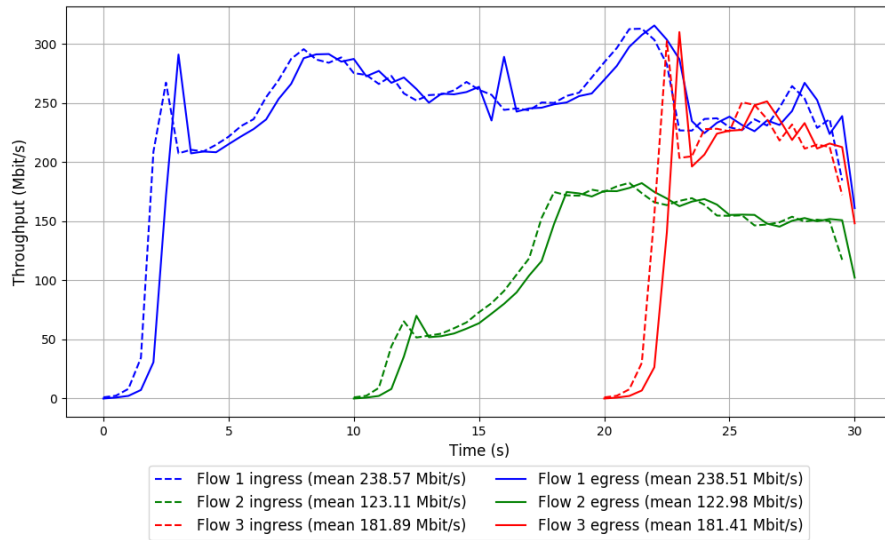
-- Flow 2:

Average throughput: 122.98 Mbit/s  
95th percentile per-packet one-way delay: 47.888 ms  
Loss rate: 0.57%

-- Flow 3:

Average throughput: 181.41 Mbit/s  
95th percentile per-packet one-way delay: 49.145 ms  
Loss rate: 1.22%

Run 5: Report of PCC-Vivace — Data Link

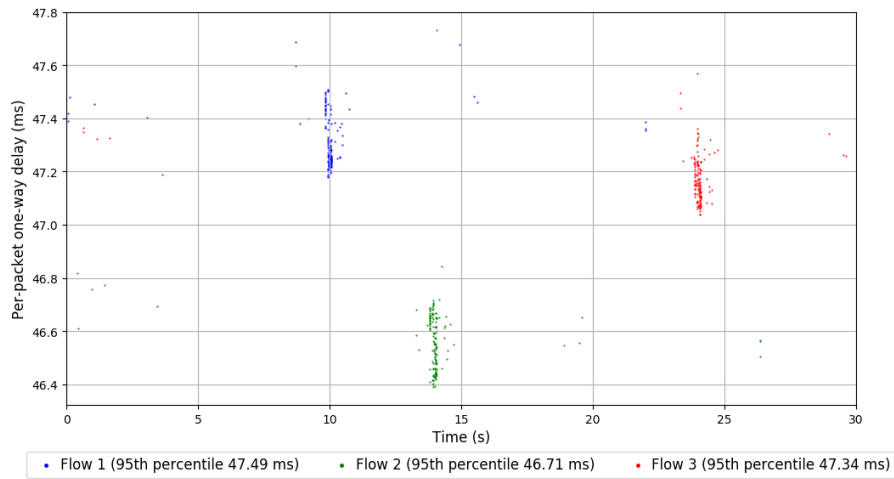
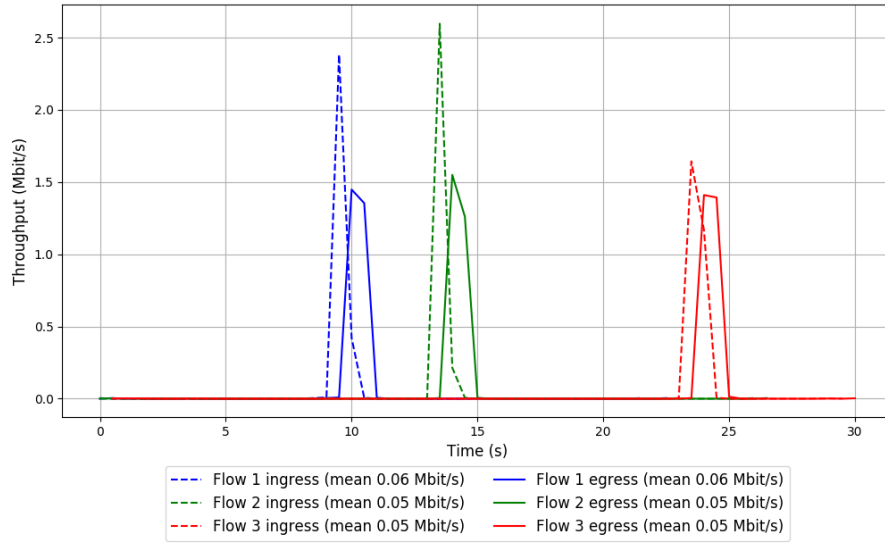


Run 1: Statistics of WebRTC media

Start at: 2019-08-27 20:42:57  
End at: 2019-08-27 20:43:27  
Local clock offset: 0.001 ms  
Remote clock offset: -0.018 ms

```
# Below is generated by plot.py at 2019-08-28 02:16:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 47.455 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 47.495 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 46.707 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 47.342 ms
Loss rate: 0.00%
```

# Run 1: Report of WebRTC media — Data Link

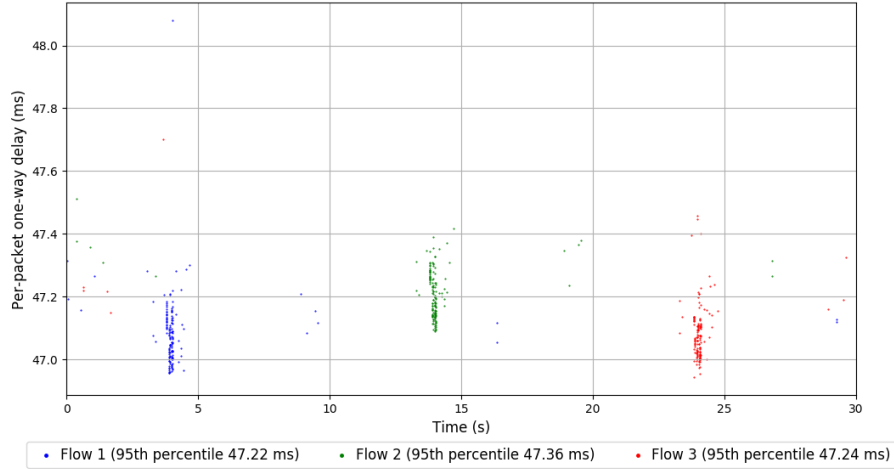
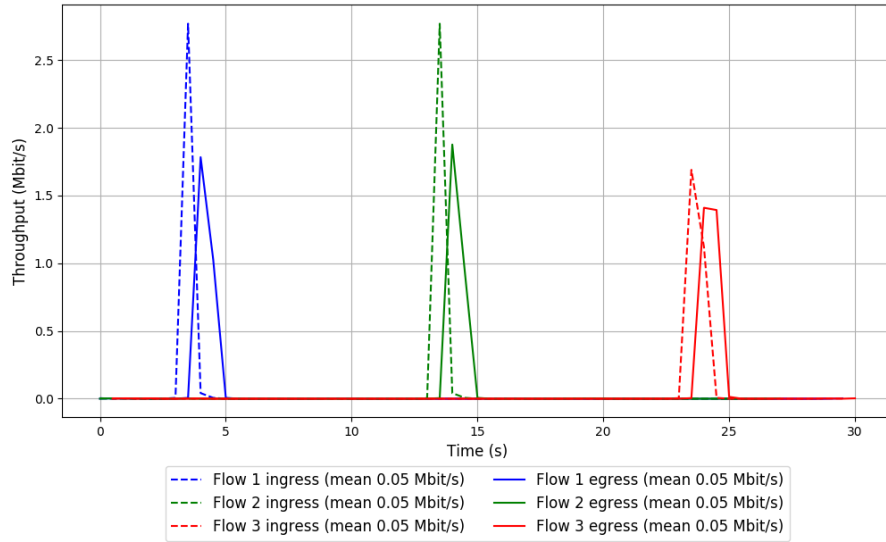


Run 2: Statistics of WebRTC media

Start at: 2019-08-27 21:22:11  
End at: 2019-08-27 21:22:41  
Local clock offset: 0.298 ms  
Remote clock offset: -0.032 ms

```
# Below is generated by plot.py at 2019-08-28 02:16:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 47.314 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 47.220 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 47.358 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 47.239 ms
Loss rate: 0.00%
```

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

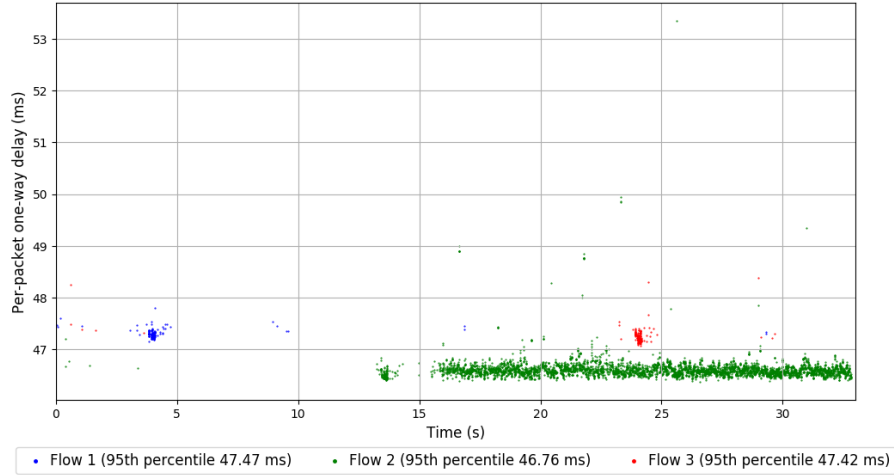
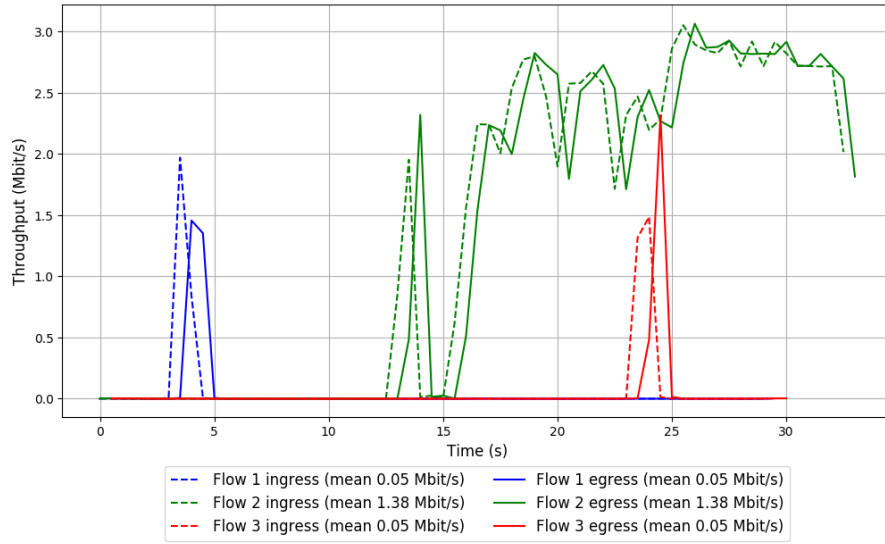


Run 3: Statistics of WebRTC media

Start at: 2019-08-27 22:01:24  
End at: 2019-08-27 22:01:54  
Local clock offset: -0.16 ms  
Remote clock offset: -0.038 ms

```
# Below is generated by plot.py at 2019-08-28 02:16:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.45 Mbit/s
95th percentile per-packet one-way delay: 47.183 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 47.469 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.38 Mbit/s
95th percentile per-packet one-way delay: 46.758 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 47.421 ms
Loss rate: 0.00%
```

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



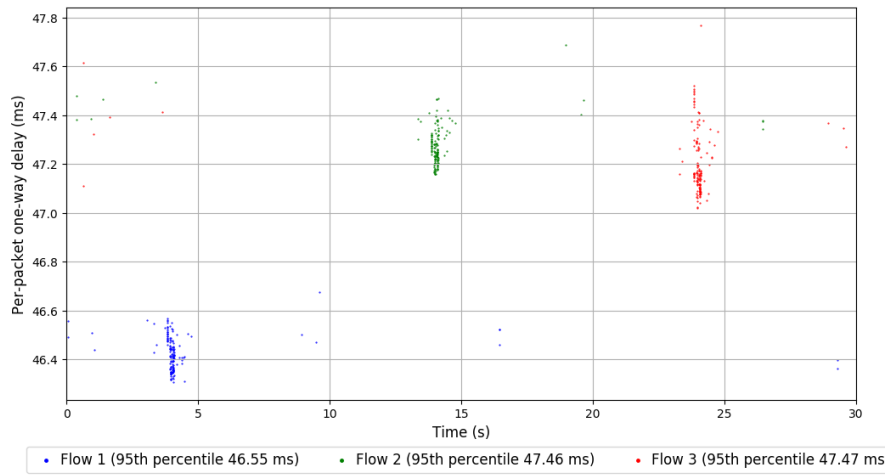
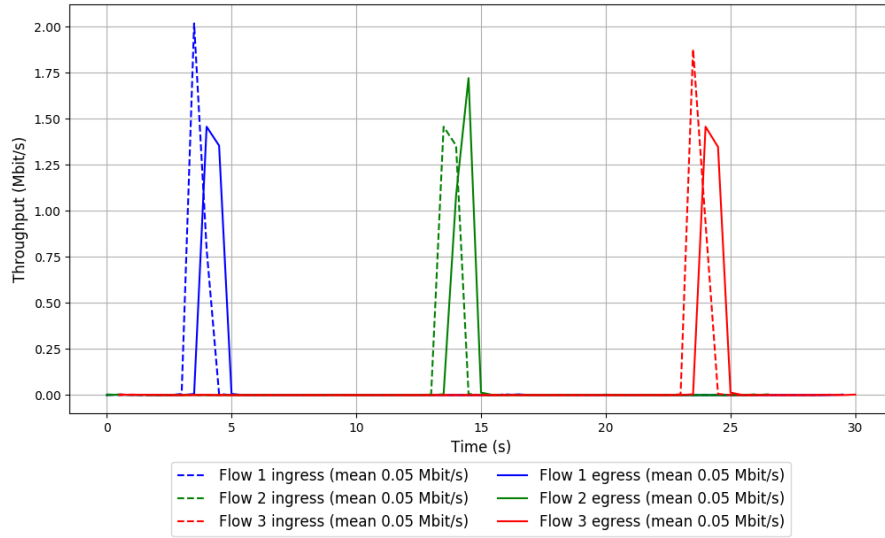


Run 4: Statistics of WebRTC media

Start at: 2019-08-27 22:40:32  
End at: 2019-08-27 22:41:02  
Local clock offset: -0.116 ms  
Remote clock offset: -0.052 ms

```
# Below is generated by plot.py at 2019-08-28 02:16:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 47.415 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 46.546 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 47.463 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 47.469 ms
Loss rate: 0.00%
```

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



Run 5: Statistics of WebRTC media

Start at: 2019-08-27 23:19:54  
End at: 2019-08-27 23:20:24  
Local clock offset: -0.073 ms  
Remote clock offset: -0.051 ms

```
# Below is generated by plot.py at 2019-08-28 02:16:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 47.383 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 47.389 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 46.593 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 47.410 ms
Loss rate: 0.05%
```

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

