

## Pantheon Report

Generated at 2019-08-27 15:01:15 (UTC).

Data path: GCE London on `ens4` (*remote*) → GCE Sydney 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:

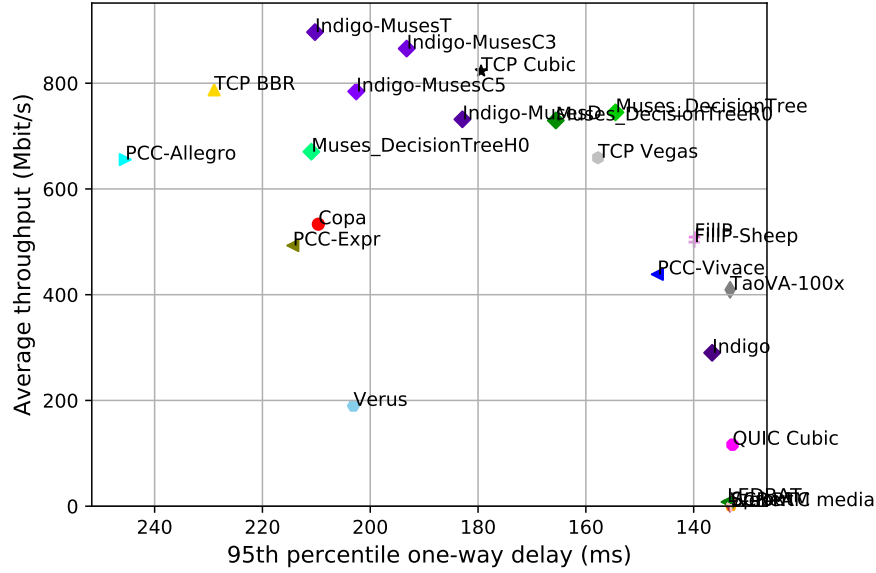
```
Linux 4.15.0-1036-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

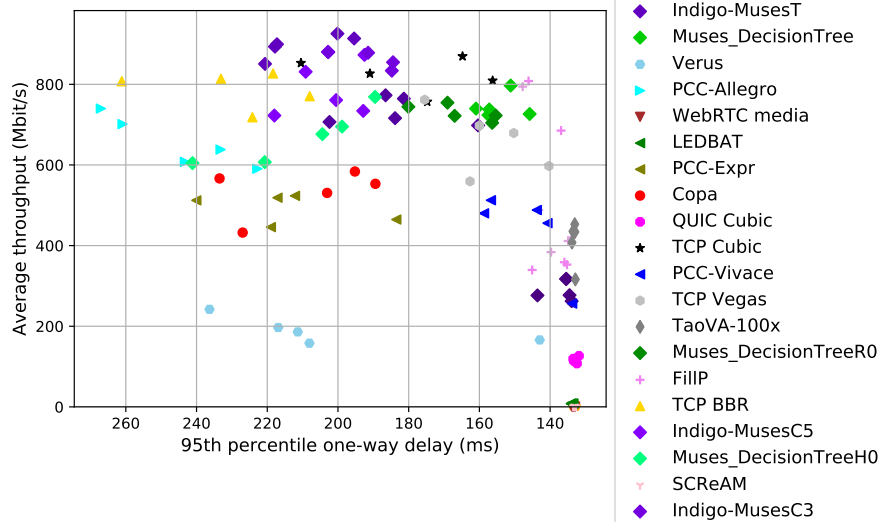
```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 387225f7b5f61ddbe92d708a8869ffbb84eb3200
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
```

```
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from GCE London to GCE Sydney, 5 runs of 30s each per scheme  
3 flows with 10s interval between flows (mean of all runs by scheme)



test from GCE London to GCE Sydney, 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      | 448.92                 | 375.34 | 274.65 | 218.42                    | 242.83 | 191.64 | 1.58               | 3.87   | 5.90   |
| Copa                 | 5      | 285.95                 | 280.65 | 187.92 | 210.52                    | 203.55 | 164.94 | 0.96               | 1.45   | 4.10   |
| TCP Cubic            | 5      | 473.11                 | 391.98 | 275.43 | 174.74                    | 170.64 | 168.99 | 1.12               | 1.68   | 3.59   |
| FillP                | 5      | 200.54                 | 352.44 | 230.13 | 139.54                    | 138.99 | 134.13 | 0.23               | 1.20   | 3.24   |
| FillP-Sheep          | 5      | 199.59                 | 335.96 | 238.70 | 151.80                    | 136.26 | 134.83 | 0.46               | 1.23   | 3.25   |
| Indigo               | 5      | 151.92                 | 148.62 | 121.03 | 134.70                    | 141.49 | 142.43 | 0.90               | 1.39   | 3.38   |
| Indigo-MusesC3       | 5      | 511.90                 | 431.16 | 303.52 | 203.06                    | 160.43 | 137.72 | 1.00               | 1.19   | 4.57   |
| Indigo-MusesC5       | 5      | 496.59                 | 388.53 | 146.11 | 206.72                    | 176.55 | 134.18 | 0.70               | 1.69   | 6.45   |
| Indigo-MusesD        | 5      | 459.96                 | 378.58 | 114.30 | 186.95                    | 173.35 | 134.74 | 0.85               | 1.39   | 6.08   |
| Indigo-MusesT        | 5      | 553.65                 | 466.36 | 173.43 | 215.24                    | 179.71 | 135.20 | 1.54               | 1.48   | 4.77   |
| LEDBAT               | 5      | 5.23                   | 3.46   | 1.66   | 133.87                    | 133.48 | 133.54 | 1.78               | 2.68   | 5.41   |
| Muses_DecisionTree   | 5      | 447.42                 | 365.10 | 182.20 | 157.66                    | 147.50 | 135.32 | 0.86               | 1.21   | 5.00   |
| Muses_DecisionTreeH0 | 5      | 360.97                 | 378.69 | 192.36 | 222.63                    | 163.51 | 137.05 | 2.58               | 1.18   | 5.88   |
| Muses_DecisionTreeR0 | 5      | 439.12                 | 358.67 | 173.29 | 172.92                    | 149.70 | 134.70 | 0.87               | 1.42   | 5.19   |
| PCC-Allegro          | 5      | 368.41                 | 323.28 | 226.43 | 238.37                    | 225.56 | 254.67 | 4.09               | 3.73   | 5.41   |
| PCC-Expr             | 5      | 296.59                 | 218.40 | 159.96 | 206.98                    | 178.42 | 189.94 | 2.76               | 2.72   | 4.27   |
| QUIC Cubic           | 5      | 60.24                  | 58.10  | 52.80  | 132.53                    | 132.52 | 132.49 | 1.21               | 1.21   | 3.10   |
| SCReAM               | 5      | 0.15                   | 0.15   | 0.16   | 133.04                    | 132.89 | 133.08 | 0.88               | 1.39   | 2.31   |
| Sprout               | 5      | 0.73                   | 0.57   | 0.67   | 133.00                    | 133.02 | 132.76 | 0.82               | 1.44   | 2.77   |
| TaoVA-100x           | 5      | 198.19                 | 226.25 | 187.14 | 133.12                    | 133.33 | 132.65 | 0.91               | 1.46   | 3.09   |
| TCP Vegas            | 5      | 346.94                 | 348.86 | 247.21 | 150.86                    | 158.03 | 178.16 | 0.89               | 1.16   | 3.68   |
| Verus                | 5      | 115.32                 | 84.18  | 57.97  | 189.99                    | 182.17 | 181.26 | 1.50               | 4.12   | 5.23   |
| PCC-Vivace           | 5      | 267.26                 | 206.91 | 105.87 | 170.90                    | 141.17 | 143.21 | 1.57               | 1.88   | 4.68   |
| WebRTC media         | 5      | 0.05                   | 0.05   | 0.05   | 132.96                    | 133.20 | 133.36 | 0.01               | 0.00   | 0.00   |

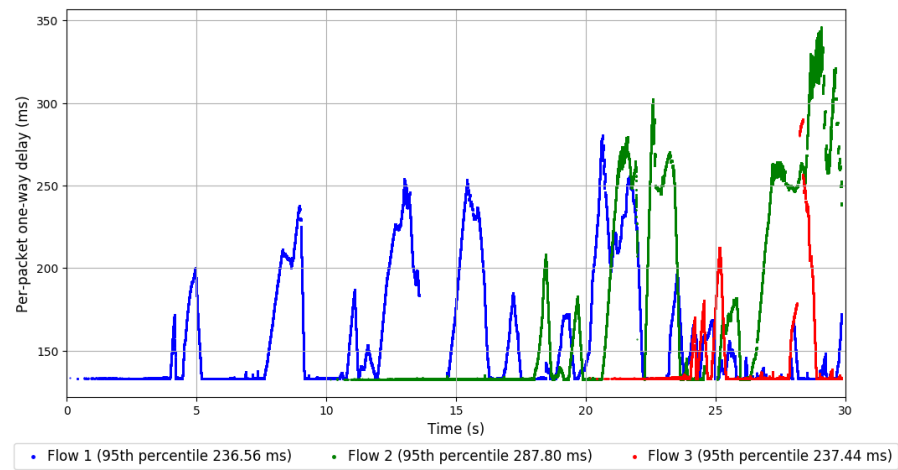
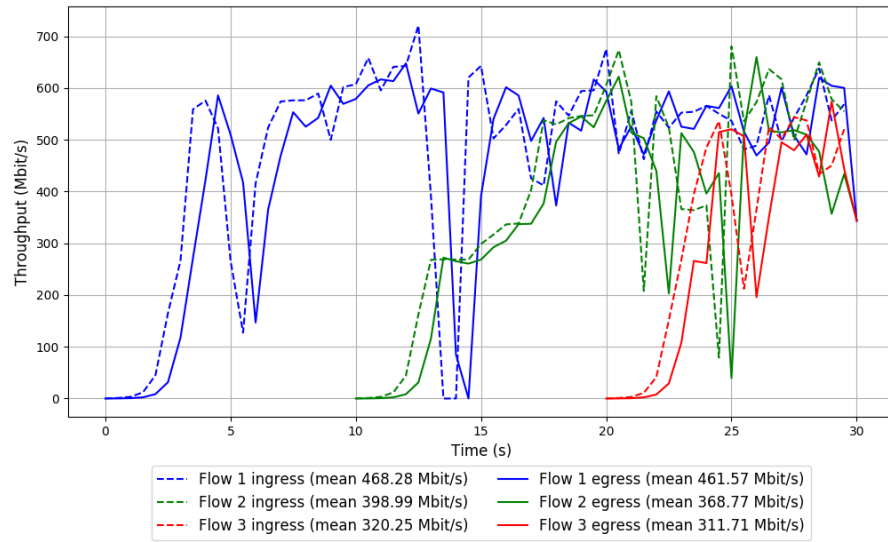


Run 1: Statistics of TCP BBR

Start at: 2019-08-27 08:58:53  
End at: 2019-08-27 08:59:23  
Local clock offset: -0.251 ms  
Remote clock offset: -0.535 ms

# Below is generated by plot.py at 2019-08-27 13:00:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 807.71 Mbit/s  
95th percentile per-packet one-way delay: 261.153 ms  
Loss rate: 4.74%  
-- Flow 1:  
Average throughput: 461.57 Mbit/s  
95th percentile per-packet one-way delay: 236.558 ms  
Loss rate: 2.31%  
-- Flow 2:  
Average throughput: 368.77 Mbit/s  
95th percentile per-packet one-way delay: 287.797 ms  
Loss rate: 8.81%  
-- Flow 3:  
Average throughput: 311.71 Mbit/s  
95th percentile per-packet one-way delay: 237.445 ms  
Loss rate: 5.27%

# Run 1: Report of TCP BBR — Data Link

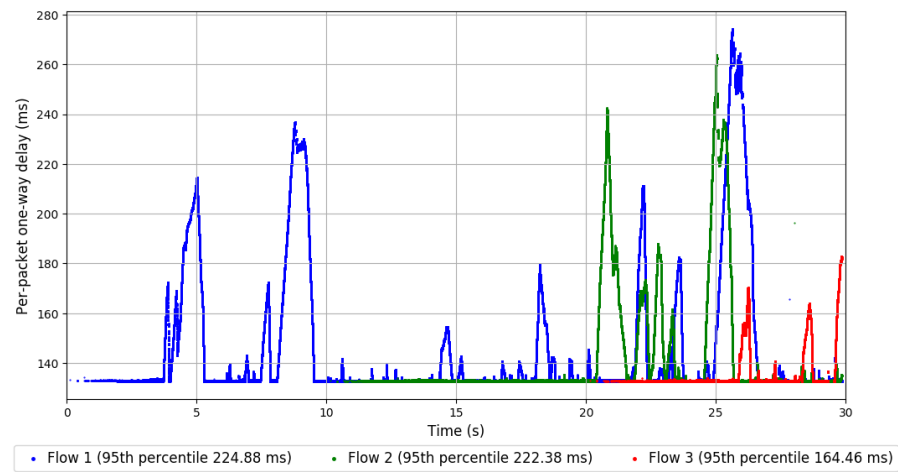
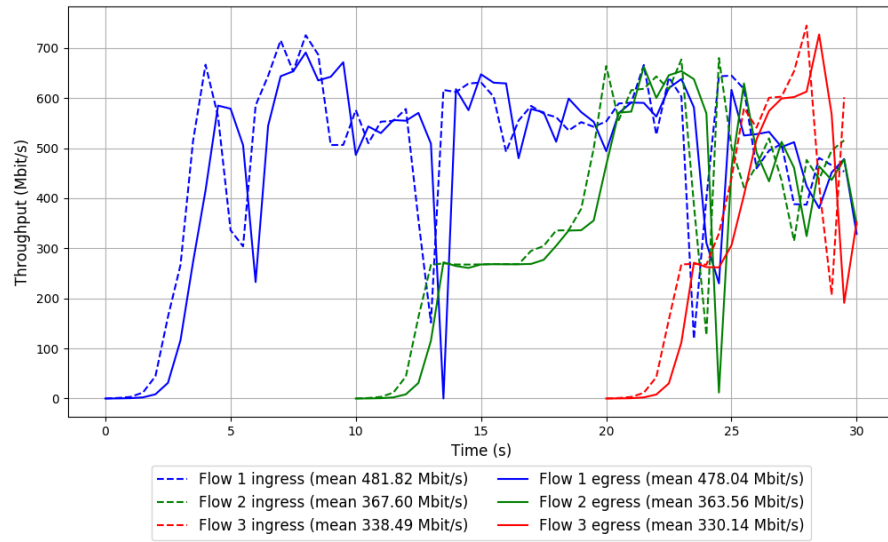


Run 2: Statistics of TCP BBR

Start at: 2019-08-27 09:42:25  
End at: 2019-08-27 09:42:55  
Local clock offset: -0.093 ms  
Remote clock offset: -0.145 ms

# Below is generated by plot.py at 2019-08-27 13:01:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 826.91 Mbit/s  
95th percentile per-packet one-way delay: 218.360 ms  
Loss rate: 2.34%  
-- Flow 1:  
Average throughput: 478.04 Mbit/s  
95th percentile per-packet one-way delay: 224.885 ms  
Loss rate: 1.67%  
-- Flow 2:  
Average throughput: 363.56 Mbit/s  
95th percentile per-packet one-way delay: 222.378 ms  
Loss rate: 2.42%  
-- Flow 3:  
Average throughput: 330.14 Mbit/s  
95th percentile per-packet one-way delay: 164.456 ms  
Loss rate: 5.08%

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

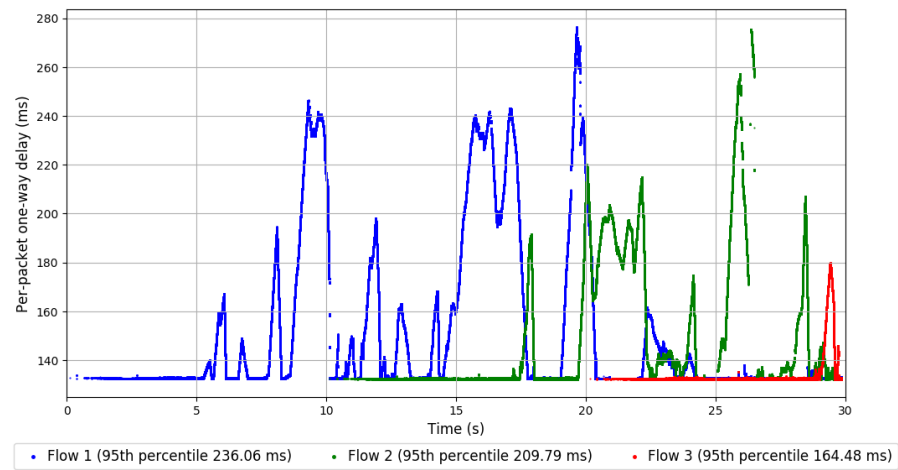
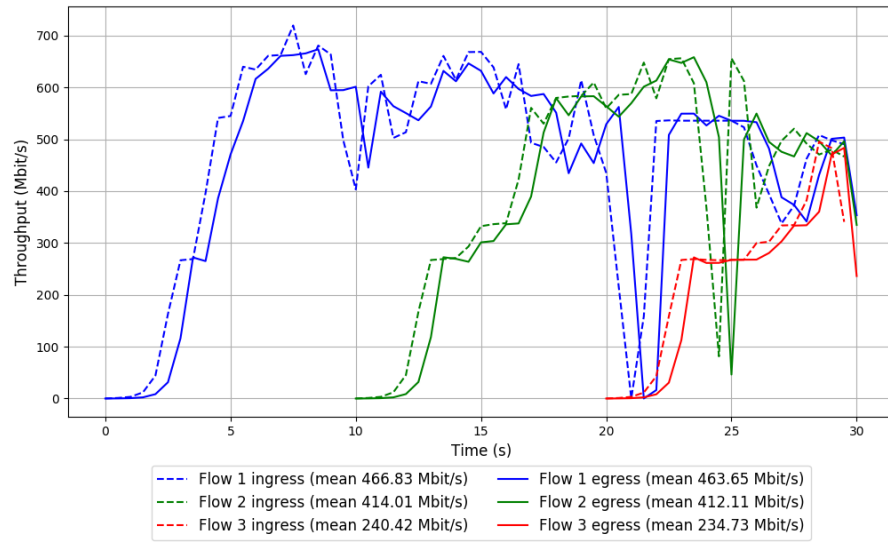


Run 3: Statistics of TCP BBR

Start at: 2019-08-27 10:25:49  
End at: 2019-08-27 10:26:19  
Local clock offset: -0.142 ms  
Remote clock offset: -0.073 ms

# Below is generated by plot.py at 2019-08-27 13:01:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 813.62 Mbit/s  
95th percentile per-packet one-way delay: 233.094 ms  
Loss rate: 1.98%  
-- Flow 1:  
Average throughput: 463.65 Mbit/s  
95th percentile per-packet one-way delay: 236.062 ms  
Loss rate: 1.58%  
-- Flow 2:  
Average throughput: 412.11 Mbit/s  
95th percentile per-packet one-way delay: 209.790 ms  
Loss rate: 1.80%  
-- Flow 3:  
Average throughput: 234.73 Mbit/s  
95th percentile per-packet one-way delay: 164.482 ms  
Loss rate: 5.00%

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

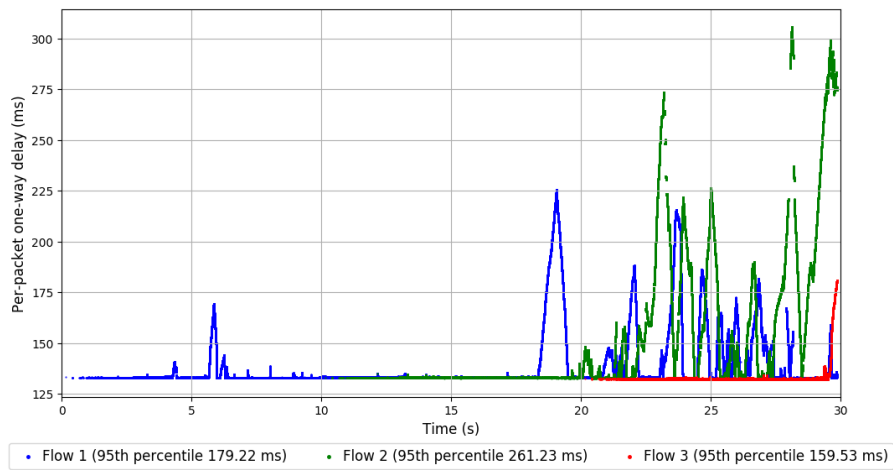
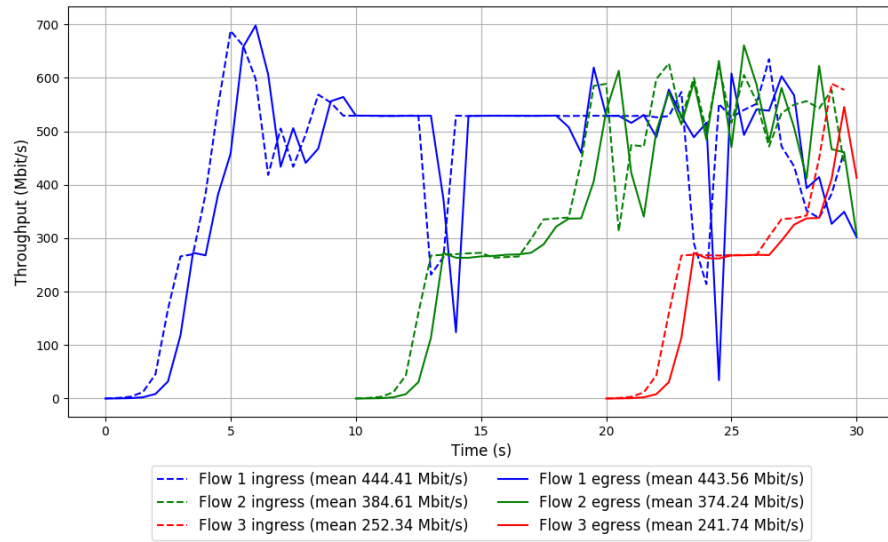


Run 4: Statistics of TCP BBR

Start at: 2019-08-27 11:09:28  
End at: 2019-08-27 11:09:58  
Local clock offset: -0.321 ms  
Remote clock offset: -0.327 ms

# Below is generated by plot.py at 2019-08-27 13:01:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 770.66 Mbit/s  
95th percentile per-packet one-way delay: 207.997 ms  
Loss rate: 2.64%  
-- Flow 1:  
Average throughput: 443.56 Mbit/s  
95th percentile per-packet one-way delay: 179.215 ms  
Loss rate: 1.08%  
-- Flow 2:  
Average throughput: 374.24 Mbit/s  
95th percentile per-packet one-way delay: 261.230 ms  
Loss rate: 4.00%  
-- Flow 3:  
Average throughput: 241.74 Mbit/s  
95th percentile per-packet one-way delay: 159.526 ms  
Loss rate: 6.76%

# Run 4: Report of TCP BBR — Data Link





Run 5: Statistics of TCP BBR

Start at: 2019-08-27 11:52:53

End at: 2019-08-27 11:53:23

Local clock offset: 0.042 ms

Remote clock offset: -0.29 ms

# Below is generated by plot.py at 2019-08-27 13:01:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 718.40 Mbit/s

95th percentile per-packet one-way delay: 224.206 ms

Loss rate: 2.36%

-- Flow 1:

Average throughput: 397.80 Mbit/s

95th percentile per-packet one-way delay: 215.387 ms

Loss rate: 1.26%

-- Flow 2:

Average throughput: 358.01 Mbit/s

95th percentile per-packet one-way delay: 232.934 ms

Loss rate: 2.32%

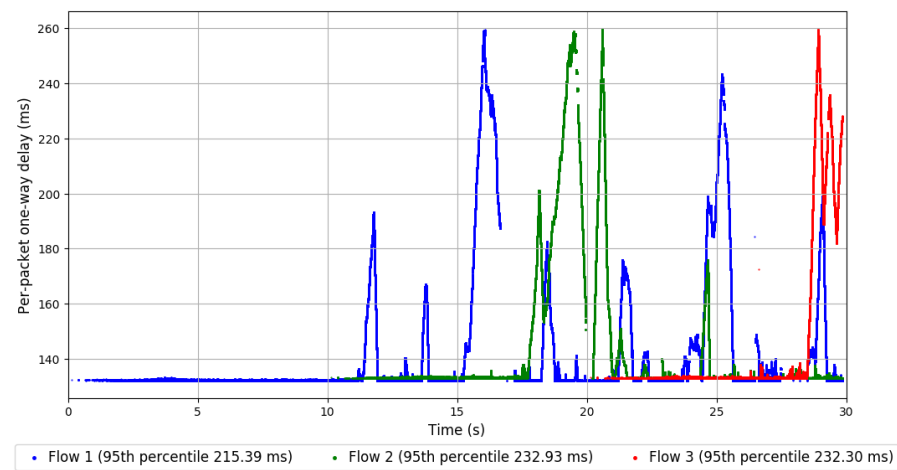
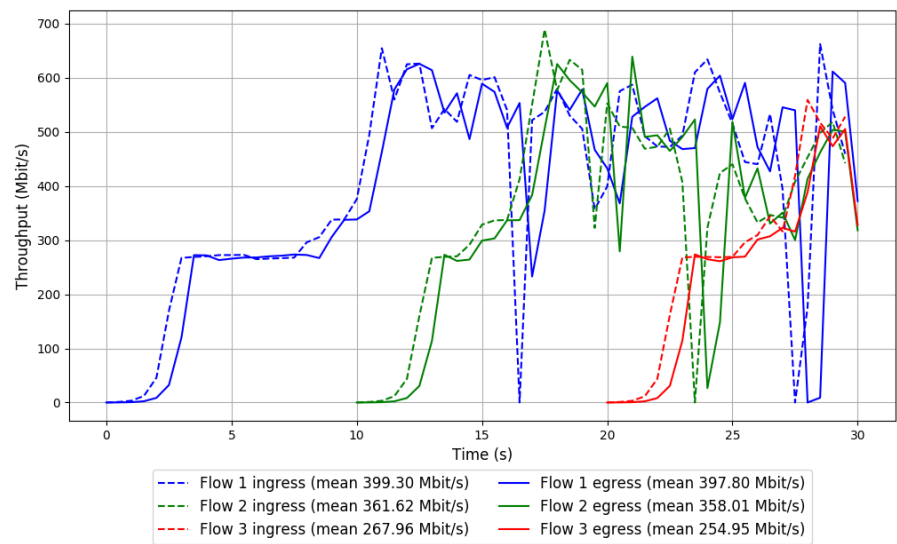
-- Flow 3:

Average throughput: 254.95 Mbit/s

95th percentile per-packet one-way delay: 232.303 ms

Loss rate: 7.41%

Run 5: Report of TCP BBR — Data Link

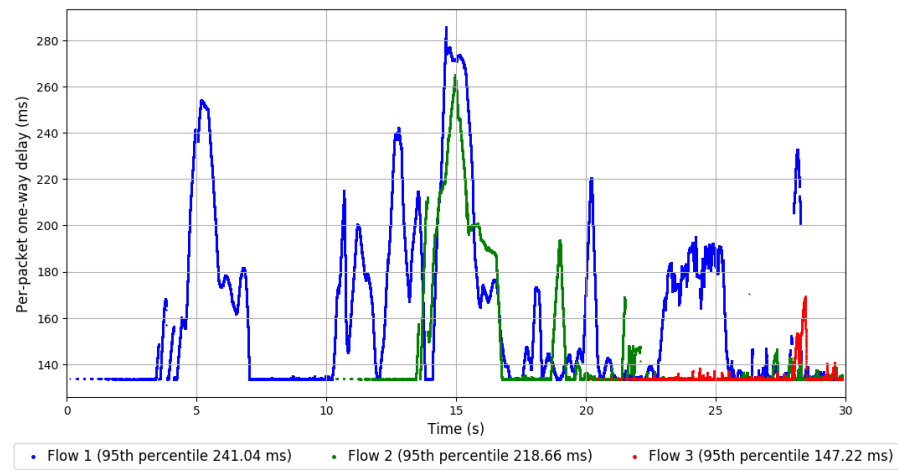
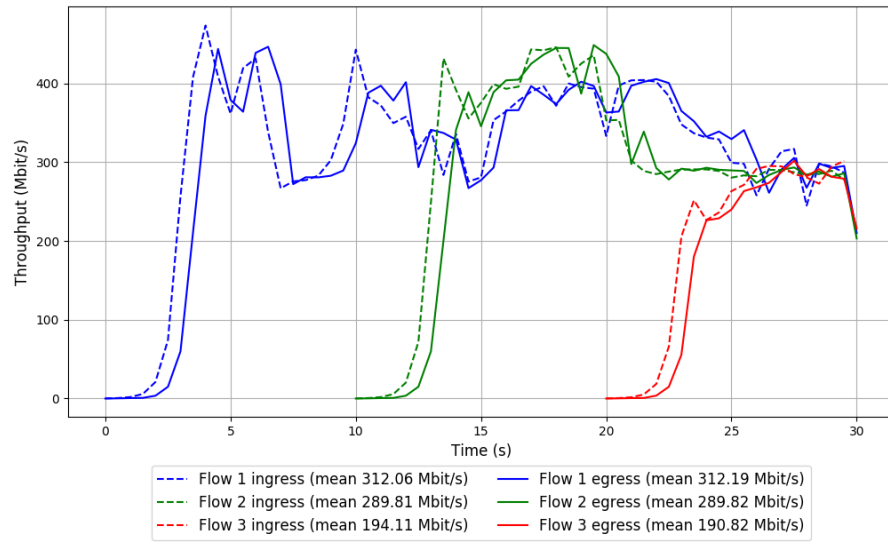


Run 1: Statistics of Copa

Start at: 2019-08-27 09:26:05  
End at: 2019-08-27 09:26:35  
Local clock offset: 0.123 ms  
Remote clock offset: -0.581 ms

# Below is generated by plot.py at 2019-08-27 13:04:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 566.58 Mbit/s  
95th percentile per-packet one-way delay: 233.491 ms  
Loss rate: 1.41%  
-- Flow 1:  
Average throughput: 312.19 Mbit/s  
95th percentile per-packet one-way delay: 241.044 ms  
Loss rate: 0.85%  
-- Flow 2:  
Average throughput: 289.82 Mbit/s  
95th percentile per-packet one-way delay: 218.658 ms  
Loss rate: 1.33%  
-- Flow 3:  
Average throughput: 190.82 Mbit/s  
95th percentile per-packet one-way delay: 147.222 ms  
Loss rate: 4.34%

## Run 1: Report of Copa — Data Link

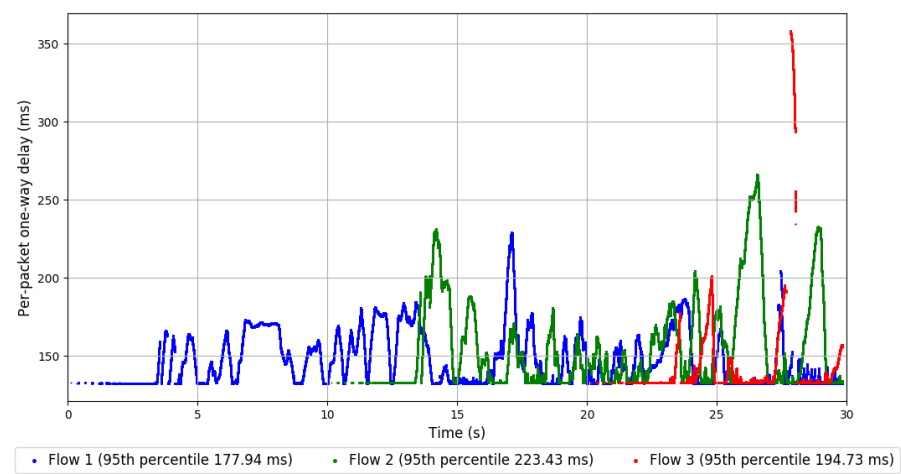
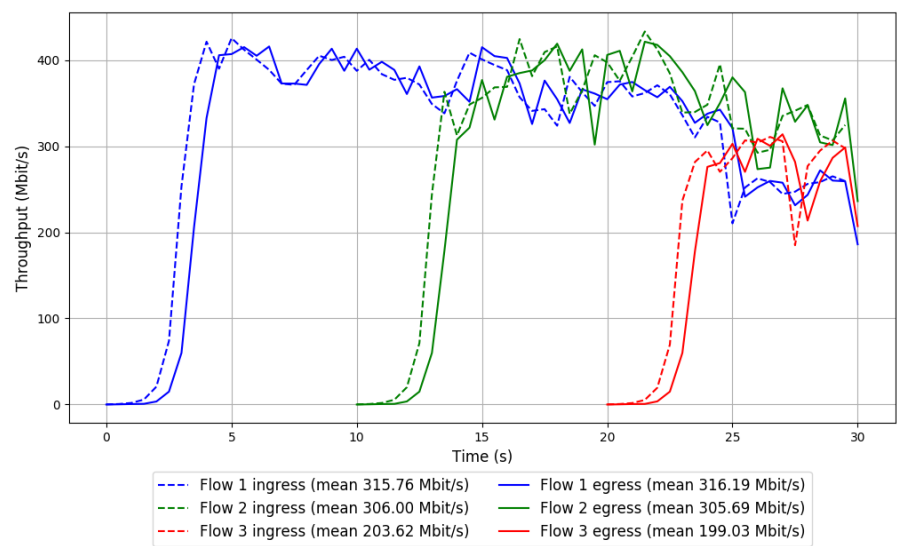


Run 2: Statistics of Copa

Start at: 2019-08-27 10:09:25  
End at: 2019-08-27 10:09:55  
Local clock offset: 0.158 ms  
Remote clock offset: -0.178 ms

# Below is generated by plot.py at 2019-08-27 13:04:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 583.78 Mbit/s  
95th percentile per-packet one-way delay: 195.206 ms  
Loss rate: 1.48%  
-- Flow 1:  
Average throughput: 316.19 Mbit/s  
95th percentile per-packet one-way delay: 177.937 ms  
Loss rate: 0.76%  
-- Flow 2:  
Average throughput: 305.69 Mbit/s  
95th percentile per-packet one-way delay: 223.431 ms  
Loss rate: 1.45%  
-- Flow 3:  
Average throughput: 199.03 Mbit/s  
95th percentile per-packet one-way delay: 194.730 ms  
Loss rate: 4.89%

Run 2: Report of Copa — Data Link

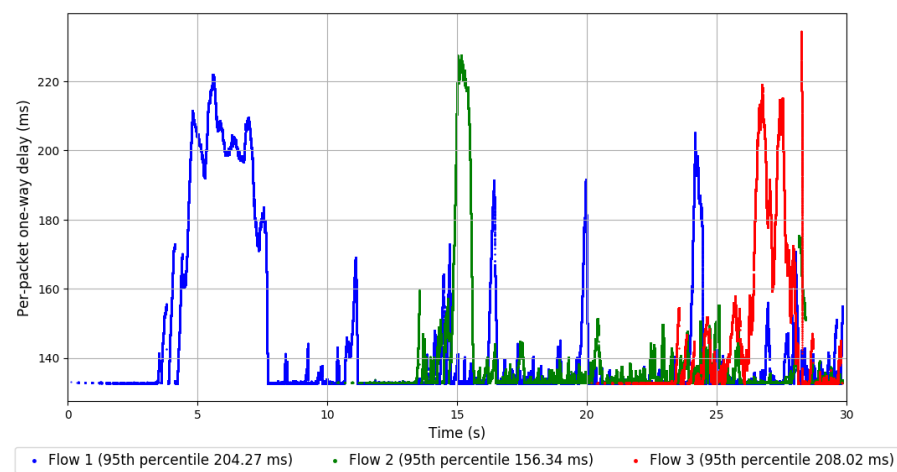
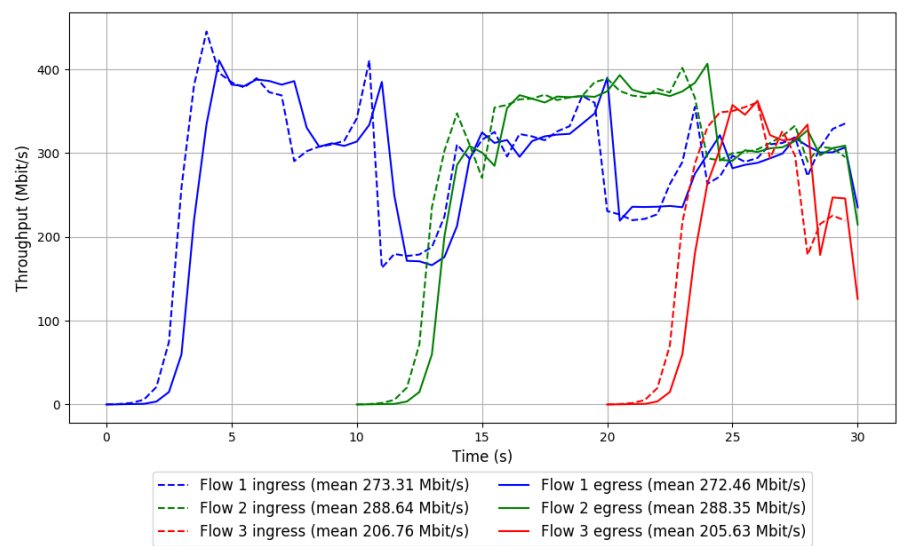


Run 3: Statistics of Copa

Start at: 2019-08-27 10:53:00  
End at: 2019-08-27 10:53:30  
Local clock offset: -0.323 ms  
Remote clock offset: -0.342 ms

# Below is generated by plot.py at 2019-08-27 13:04:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 530.65 Mbit/s  
95th percentile per-packet one-way delay: 203.072 ms  
Loss rate: 1.52%  
-- Flow 1:  
Average throughput: 272.46 Mbit/s  
95th percentile per-packet one-way delay: 204.270 ms  
Loss rate: 1.19%  
-- Flow 2:  
Average throughput: 288.35 Mbit/s  
95th percentile per-packet one-way delay: 156.343 ms  
Loss rate: 1.43%  
-- Flow 3:  
Average throughput: 205.63 Mbit/s  
95th percentile per-packet one-way delay: 208.017 ms  
Loss rate: 3.05%

Run 3: Report of Copa — Data Link



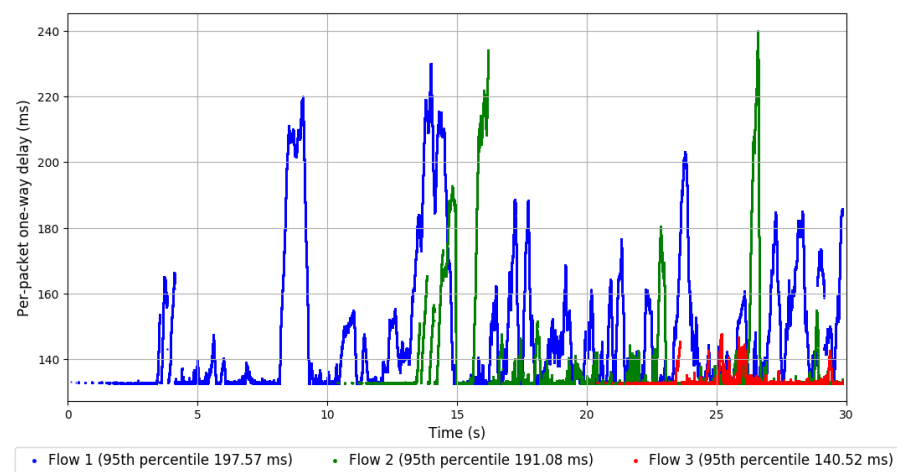
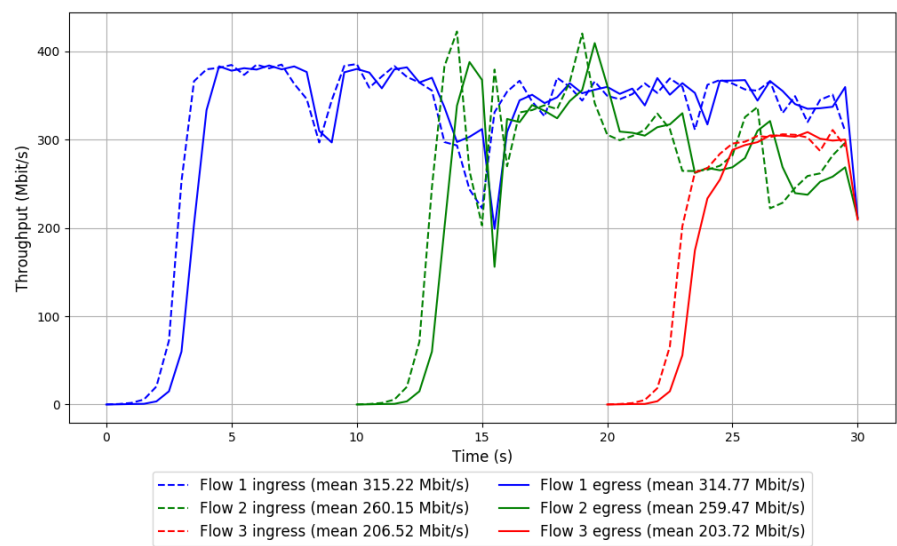


Run 4: Statistics of Copa

Start at: 2019-08-27 11:36:45  
End at: 2019-08-27 11:37:15  
Local clock offset: -0.268 ms  
Remote clock offset: -0.311 ms

# Below is generated by plot.py at 2019-08-27 13:14:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 553.24 Mbit/s  
95th percentile per-packet one-way delay: 189.414 ms  
Loss rate: 1.57%  
-- Flow 1:  
Average throughput: 314.77 Mbit/s  
95th percentile per-packet one-way delay: 197.568 ms  
Loss rate: 1.03%  
-- Flow 2:  
Average throughput: 259.47 Mbit/s  
95th percentile per-packet one-way delay: 191.077 ms  
Loss rate: 1.59%  
-- Flow 3:  
Average throughput: 203.72 Mbit/s  
95th percentile per-packet one-way delay: 140.519 ms  
Loss rate: 4.00%

Run 4: Report of Copa — Data Link

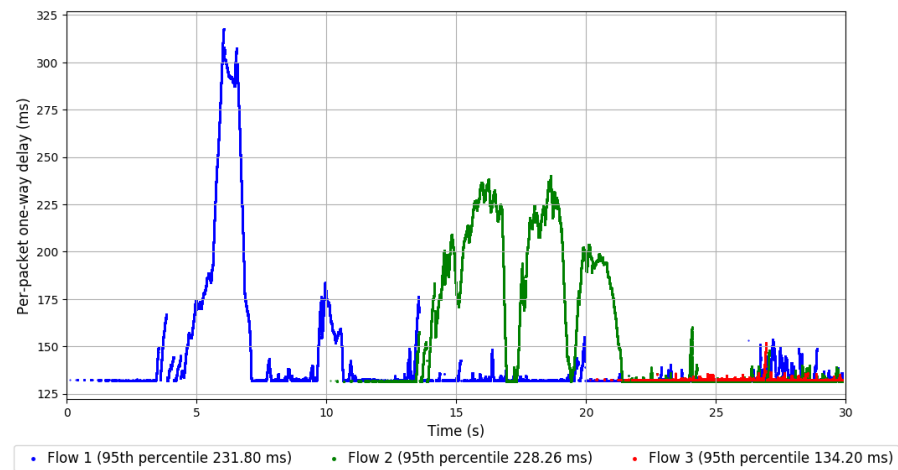
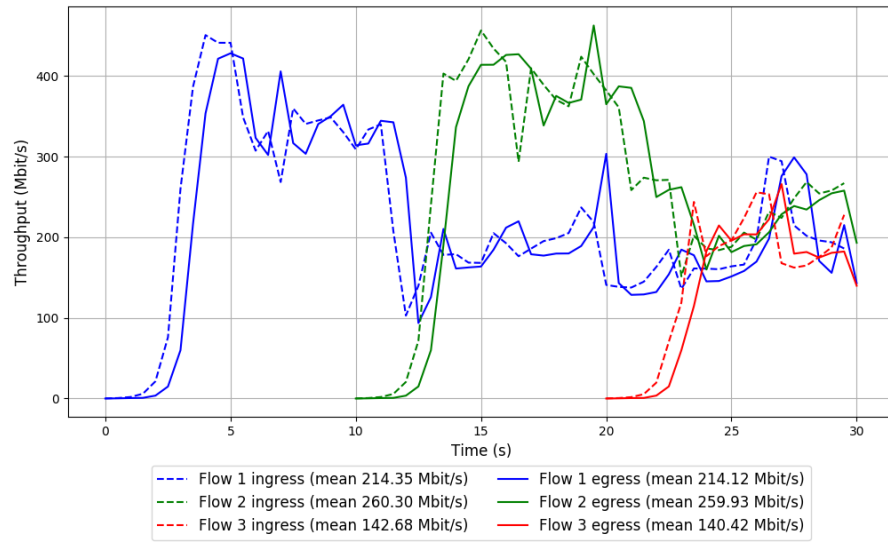


Run 5: Statistics of Copa

Start at: 2019-08-27 12:20:10  
End at: 2019-08-27 12:20:40  
Local clock offset: -0.378 ms  
Remote clock offset: -0.35 ms

# Below is generated by plot.py at 2019-08-27 13:14:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 432.31 Mbit/s  
95th percentile per-packet one-way delay: 226.958 ms  
Loss rate: 1.53%  
-- Flow 1:  
Average throughput: 214.12 Mbit/s  
95th percentile per-packet one-way delay: 231.799 ms  
Loss rate: 0.99%  
-- Flow 2:  
Average throughput: 259.93 Mbit/s  
95th percentile per-packet one-way delay: 228.263 ms  
Loss rate: 1.47%  
-- Flow 3:  
Average throughput: 140.42 Mbit/s  
95th percentile per-packet one-way delay: 134.202 ms  
Loss rate: 4.20%

## Run 5: Report of Copa — Data Link

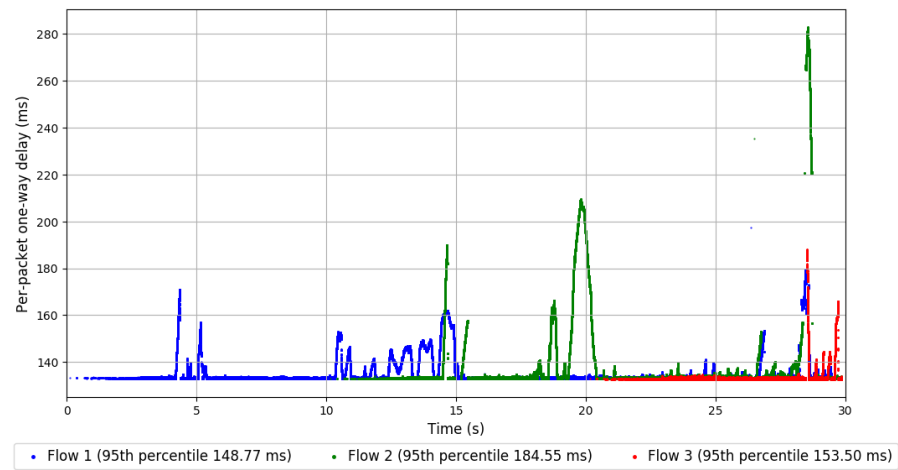
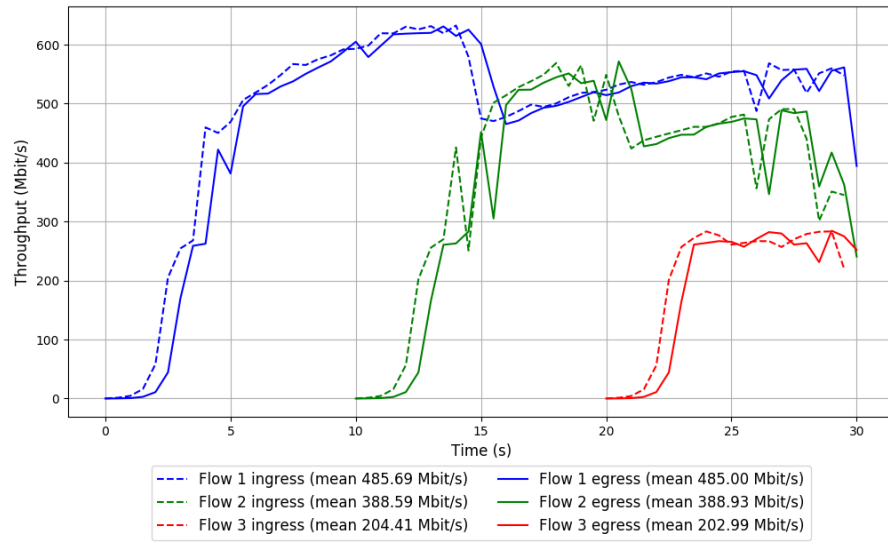


Run 1: Statistics of TCP Cubic

Start at: 2019-08-27 09:33:14  
End at: 2019-08-27 09:33:44  
Local clock offset: -0.412 ms  
Remote clock offset: -0.165 ms

# Below is generated by plot.py at 2019-08-27 13:14:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 809.15 Mbit/s  
95th percentile per-packet one-way delay: 156.257 ms  
Loss rate: 1.18%  
-- Flow 1:  
Average throughput: 485.00 Mbit/s  
95th percentile per-packet one-way delay: 148.768 ms  
Loss rate: 1.03%  
-- Flow 2:  
Average throughput: 388.93 Mbit/s  
95th percentile per-packet one-way delay: 184.547 ms  
Loss rate: 1.24%  
-- Flow 3:  
Average throughput: 202.99 Mbit/s  
95th percentile per-packet one-way delay: 153.499 ms  
Loss rate: 2.02%

# Run 1: Report of TCP Cubic — Data Link

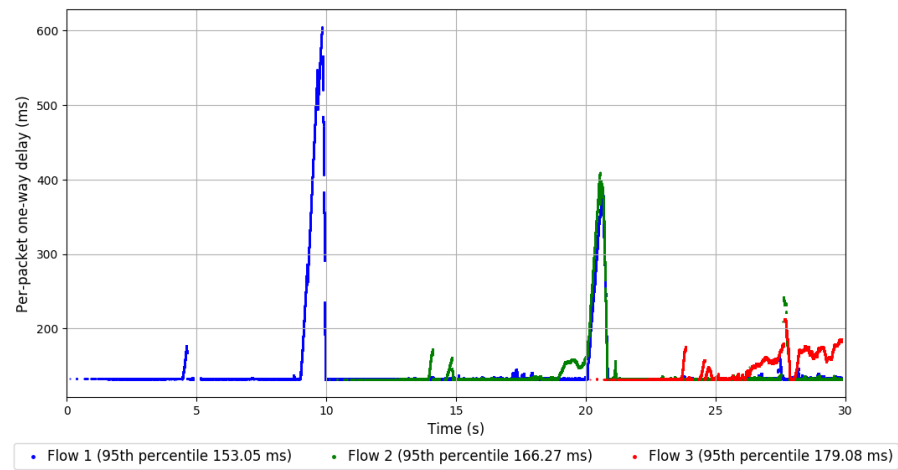
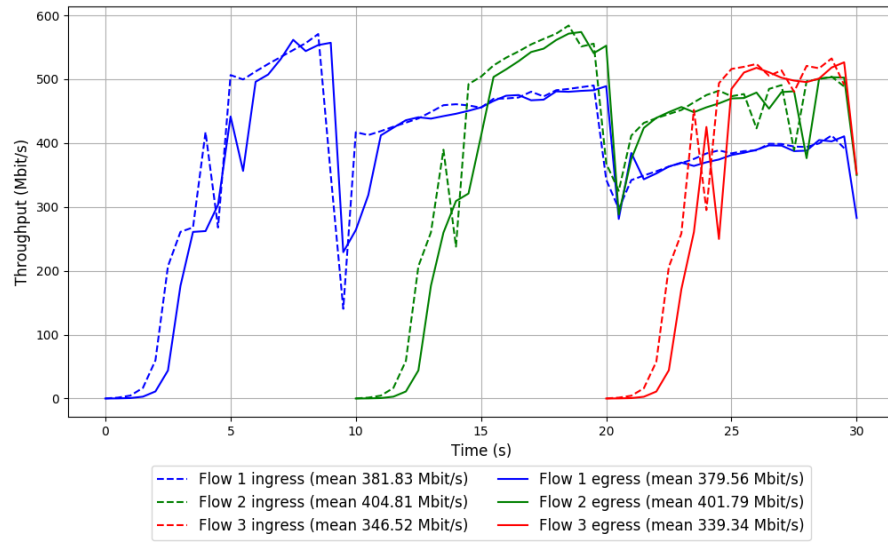


Run 2: Statistics of TCP Cubic

Start at: 2019-08-27 10:16:35  
End at: 2019-08-27 10:17:05  
Local clock offset: -0.296 ms  
Remote clock offset: -0.086 ms

# Below is generated by plot.py at 2019-08-27 13:14:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 756.80 Mbit/s  
95th percentile per-packet one-way delay: 174.757 ms  
Loss rate: 2.16%  
-- Flow 1:  
Average throughput: 379.56 Mbit/s  
95th percentile per-packet one-way delay: 153.053 ms  
Loss rate: 1.47%  
-- Flow 2:  
Average throughput: 401.79 Mbit/s  
95th percentile per-packet one-way delay: 166.272 ms  
Loss rate: 2.06%  
-- Flow 3:  
Average throughput: 339.34 Mbit/s  
95th percentile per-packet one-way delay: 179.079 ms  
Loss rate: 4.67%

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



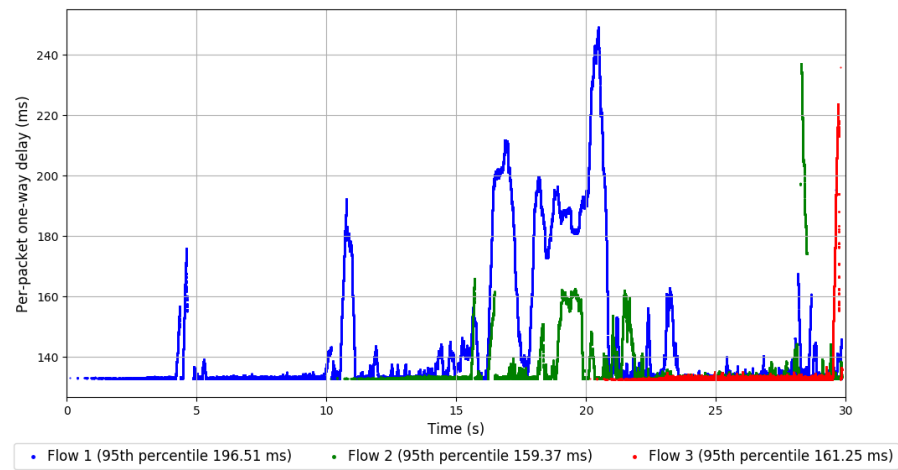
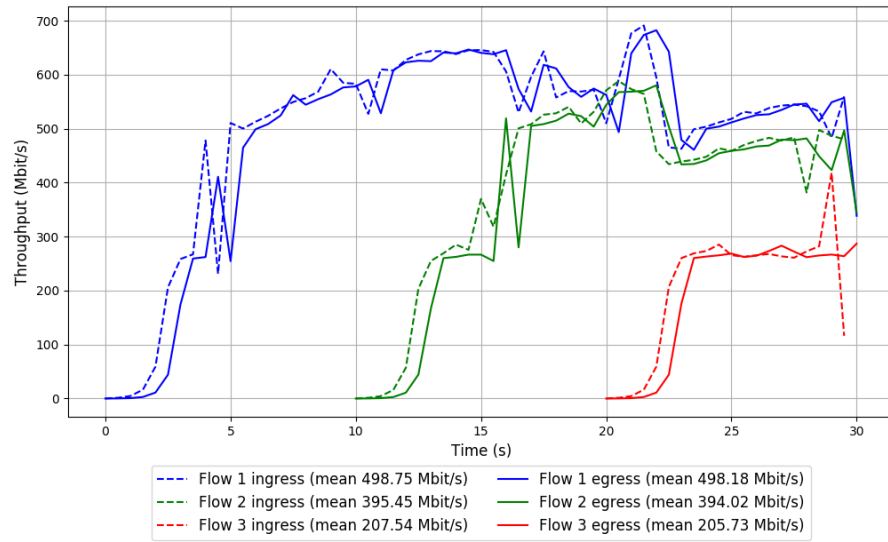


Run 3: Statistics of TCP Cubic

Start at: 2019-08-27 11:00:20  
End at: 2019-08-27 11:00:50  
Local clock offset: -0.242 ms  
Remote clock offset: -0.364 ms

# Below is generated by plot.py at 2019-08-27 13:14:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 826.62 Mbit/s  
95th percentile per-packet one-way delay: 190.959 ms  
Loss rate: 1.26%  
-- Flow 1:  
Average throughput: 498.18 Mbit/s  
95th percentile per-packet one-way delay: 196.511 ms  
Loss rate: 1.01%  
-- Flow 2:  
Average throughput: 394.02 Mbit/s  
95th percentile per-packet one-way delay: 159.370 ms  
Loss rate: 1.69%  
-- Flow 3:  
Average throughput: 205.73 Mbit/s  
95th percentile per-packet one-way delay: 161.246 ms  
Loss rate: 1.47%

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

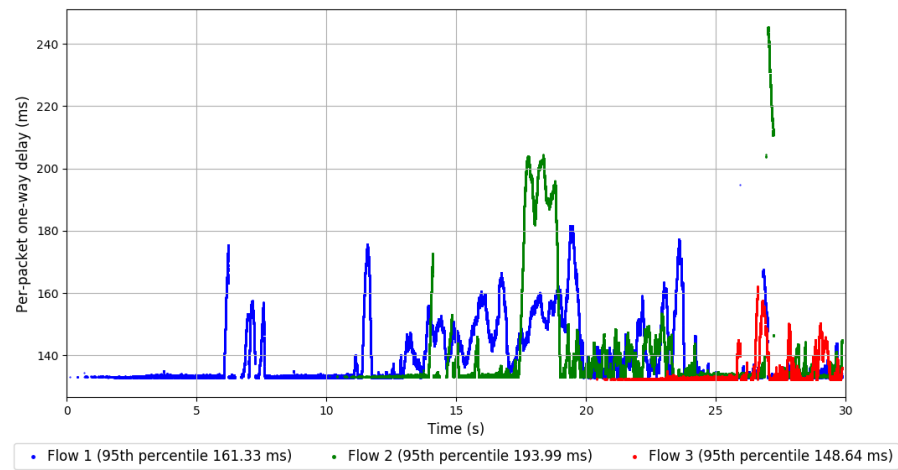
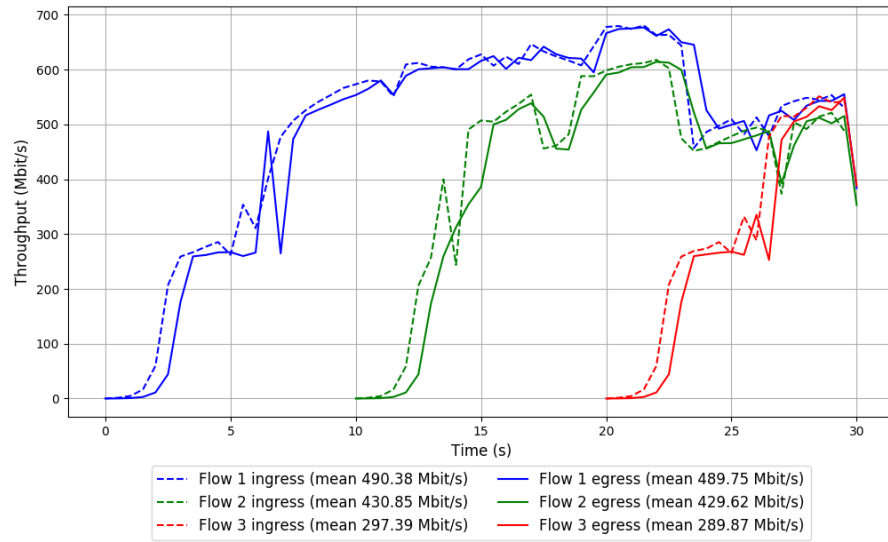


Run 4: Statistics of TCP Cubic

Start at: 2019-08-27 11:43:51  
End at: 2019-08-27 11:44:21  
Local clock offset: -0.195 ms  
Remote clock offset: -0.252 ms

# Below is generated by plot.py at 2019-08-27 13:16:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 869.49 Mbit/s  
95th percentile per-packet one-way delay: 164.767 ms  
Loss rate: 1.67%  
-- Flow 1:  
Average throughput: 489.75 Mbit/s  
95th percentile per-packet one-way delay: 161.333 ms  
Loss rate: 1.01%  
-- Flow 2:  
Average throughput: 429.62 Mbit/s  
95th percentile per-packet one-way delay: 193.990 ms  
Loss rate: 1.61%  
-- Flow 3:  
Average throughput: 289.87 Mbit/s  
95th percentile per-packet one-way delay: 148.644 ms  
Loss rate: 5.12%

# Run 4: Report of TCP Cubic — Data Link

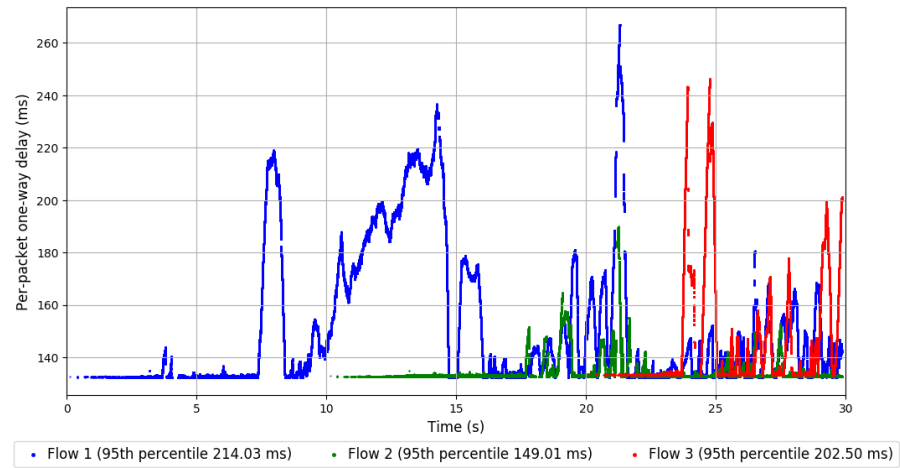
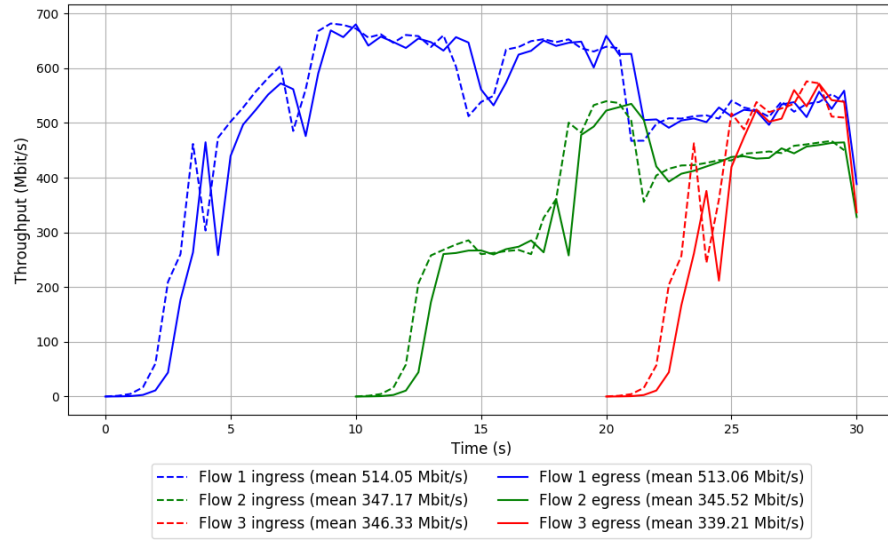


Run 5: Statistics of TCP Cubic

Start at: 2019-08-27 12:27:27  
End at: 2019-08-27 12:27:57  
Local clock offset: 0.416 ms  
Remote clock offset: -0.189 ms

# Below is generated by plot.py at 2019-08-27 13:17:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 852.90 Mbit/s  
95th percentile per-packet one-way delay: 210.468 ms  
Loss rate: 1.75%  
-- Flow 1:  
Average throughput: 513.06 Mbit/s  
95th percentile per-packet one-way delay: 214.029 ms  
Loss rate: 1.08%  
-- Flow 2:  
Average throughput: 345.52 Mbit/s  
95th percentile per-packet one-way delay: 149.015 ms  
Loss rate: 1.80%  
-- Flow 3:  
Average throughput: 339.21 Mbit/s  
95th percentile per-packet one-way delay: 202.497 ms  
Loss rate: 4.66%

# Run 5: Report of TCP Cubic — Data Link

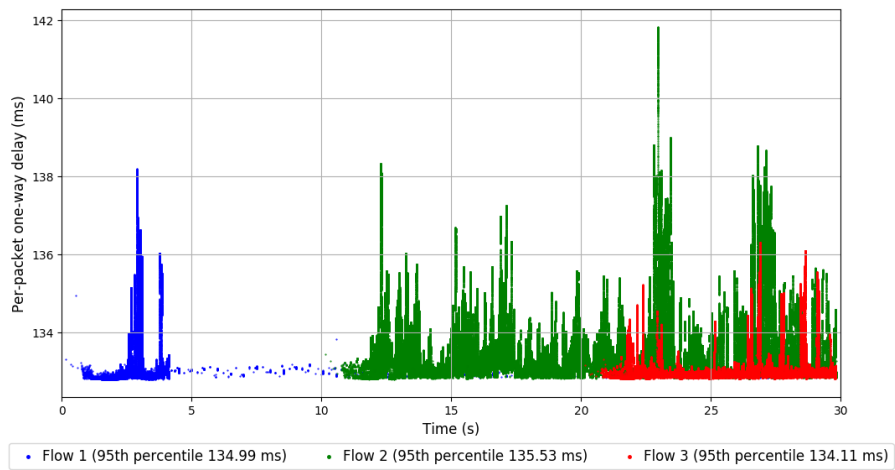
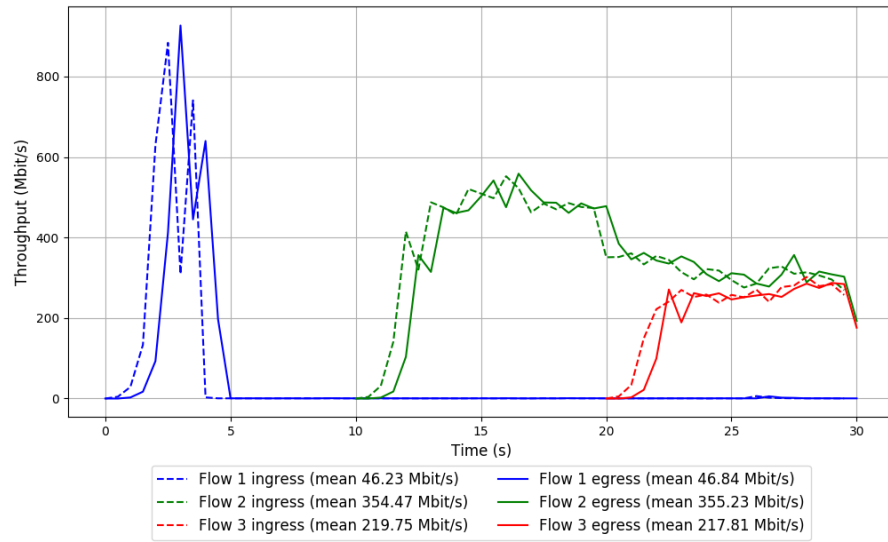


Run 1: Statistics of FillP

Start at: 2019-08-27 09:31:39  
End at: 2019-08-27 09:32:09  
Local clock offset: -0.336 ms  
Remote clock offset: -0.197 ms

# Below is generated by plot.py at 2019-08-27 13:17:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 352.91 Mbit/s  
95th percentile per-packet one-way delay: 135.229 ms  
Loss rate: 1.48%  
-- Flow 1:  
Average throughput: 46.84 Mbit/s  
95th percentile per-packet one-way delay: 134.988 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 355.23 Mbit/s  
95th percentile per-packet one-way delay: 135.532 ms  
Loss rate: 1.07%  
-- Flow 3:  
Average throughput: 217.81 Mbit/s  
95th percentile per-packet one-way delay: 134.108 ms  
Loss rate: 3.72%

# Run 1: Report of FillP — Data Link





Run 2: Statistics of FillP

Start at: 2019-08-27 10:15:01

End at: 2019-08-27 10:15:31

Local clock offset: -0.043 ms

Remote clock offset: 0.246 ms

# Below is generated by plot.py at 2019-08-27 13:17:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 339.59 Mbit/s

95th percentile per-packet one-way delay: 145.071 ms

Loss rate: 1.34%

-- Flow 1:

Average throughput: 42.30 Mbit/s

95th percentile per-packet one-way delay: 133.966 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 339.82 Mbit/s

95th percentile per-packet one-way delay: 149.514 ms

Loss rate: 1.11%

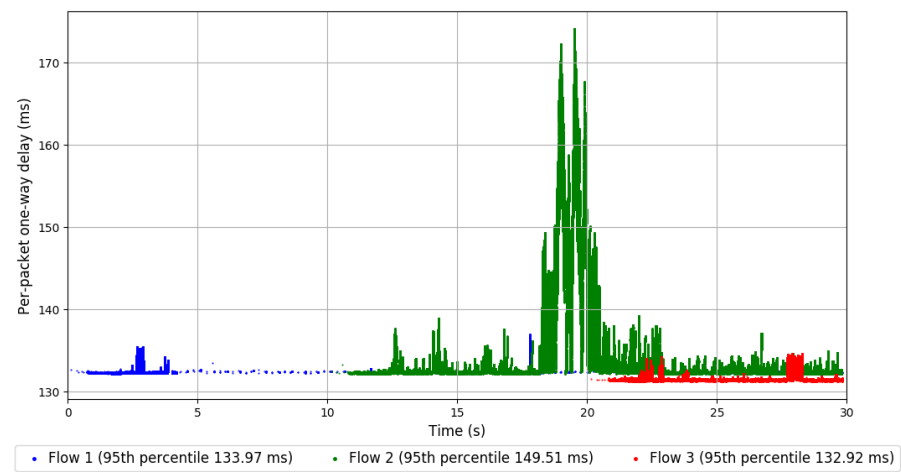
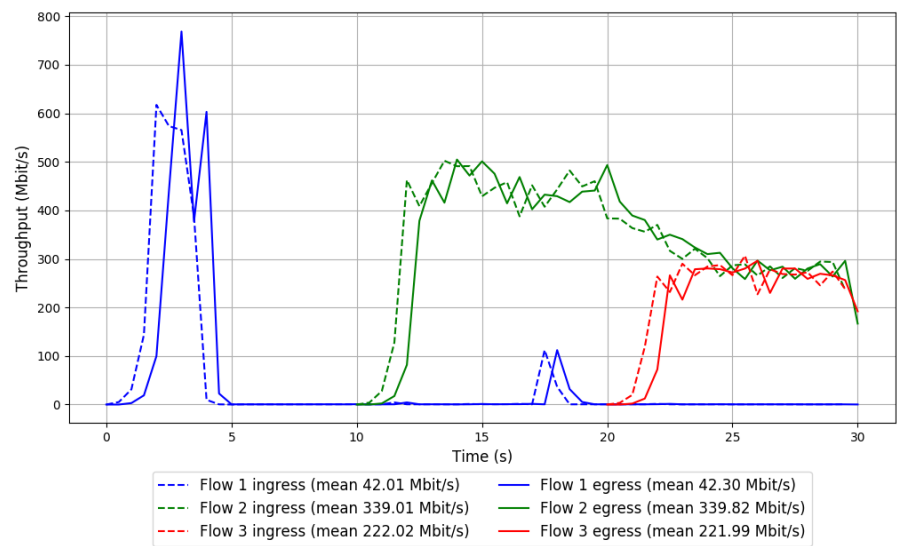
-- Flow 3:

Average throughput: 221.99 Mbit/s

95th percentile per-packet one-way delay: 132.919 ms

Loss rate: 2.78%

Run 2: Report of FillP — Data Link

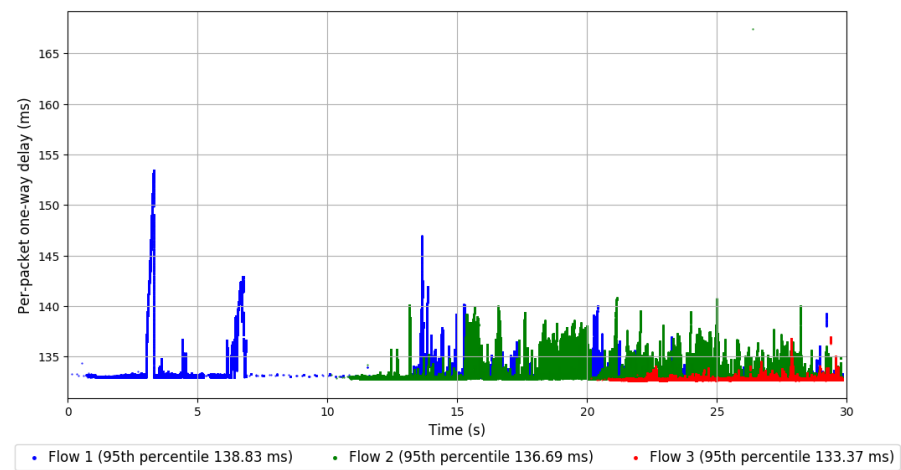
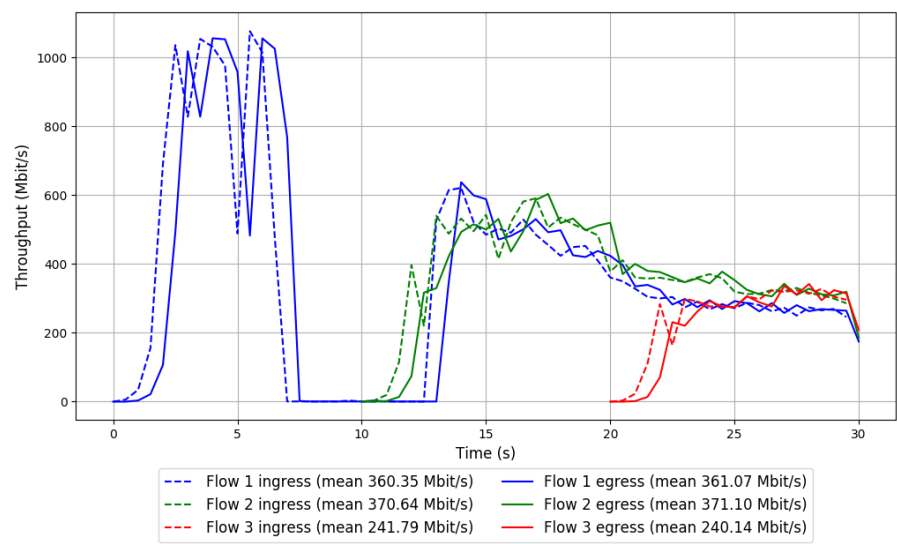


Run 3: Statistics of FillP

Start at: 2019-08-27 10:58:30  
End at: 2019-08-27 10:59:00  
Local clock offset: -0.188 ms  
Remote clock offset: -0.34 ms

# Below is generated by plot.py at 2019-08-27 13:24:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 685.22 Mbit/s  
95th percentile per-packet one-way delay: 136.900 ms  
Loss rate: 1.17%  
-- Flow 1:  
Average throughput: 361.07 Mbit/s  
95th percentile per-packet one-way delay: 138.830 ms  
Loss rate: 0.65%  
-- Flow 2:  
Average throughput: 371.10 Mbit/s  
95th percentile per-packet one-way delay: 136.687 ms  
Loss rate: 1.18%  
-- Flow 3:  
Average throughput: 240.14 Mbit/s  
95th percentile per-packet one-way delay: 133.369 ms  
Loss rate: 3.50%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2019-08-27 11:42:16

End at: 2019-08-27 11:42:46

Local clock offset: -0.583 ms

Remote clock offset: -0.29 ms

# Below is generated by plot.py at 2019-08-27 13:24:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 358.66 Mbit/s

95th percentile per-packet one-way delay: 135.946 ms

Loss rate: 1.38%

-- Flow 1:

Average throughput: 38.19 Mbit/s

95th percentile per-packet one-way delay: 135.414 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 368.55 Mbit/s

95th percentile per-packet one-way delay: 135.998 ms

Loss rate: 1.04%

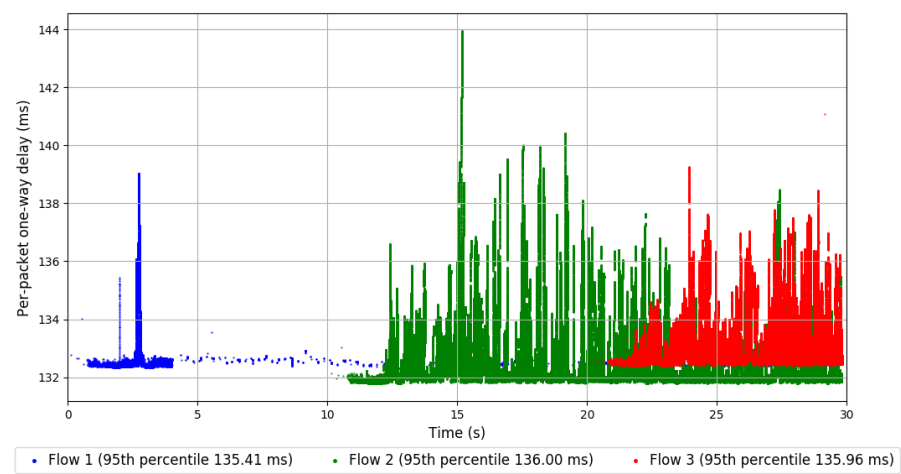
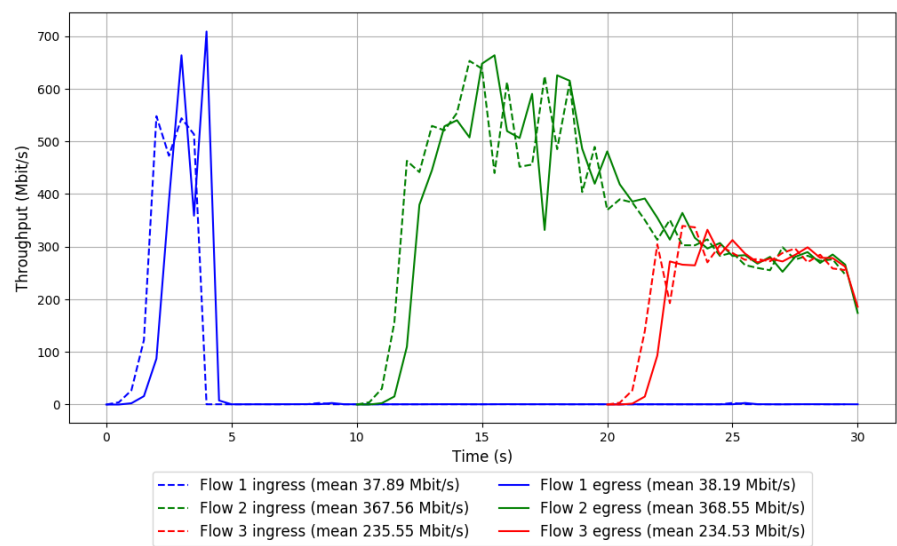
-- Flow 3:

Average throughput: 234.53 Mbit/s

95th percentile per-packet one-way delay: 135.956 ms

Loss rate: 3.11%

Run 4: Report of FillP — Data Link

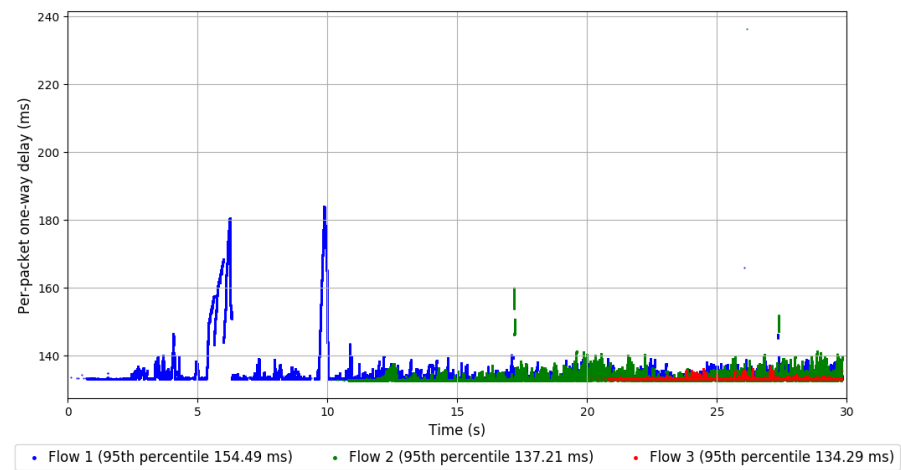
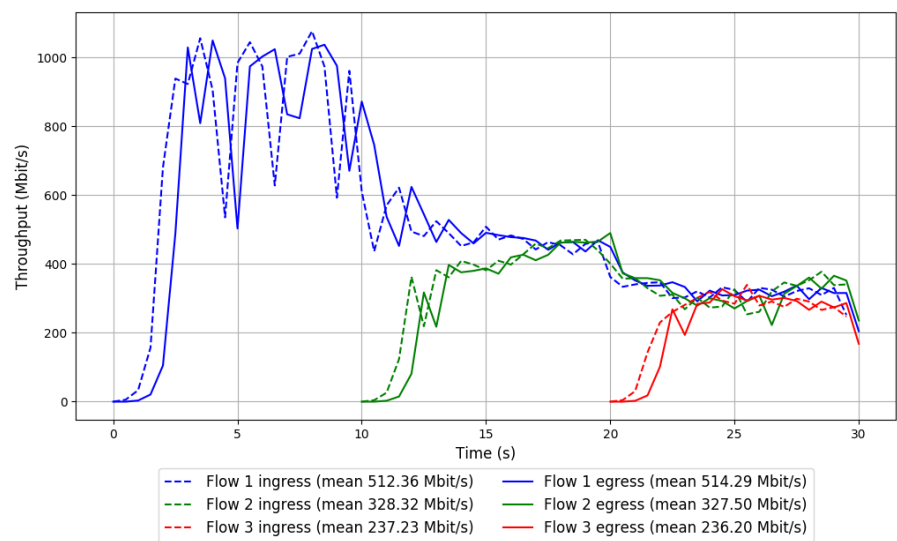


Run 5: Statistics of FillP

Start at: 2019-08-27 12:25:32  
End at: 2019-08-27 12:26:02  
Local clock offset: 0.359 ms  
Remote clock offset: -0.322 ms

# Below is generated by plot.py at 2019-08-27 13:26:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 808.15 Mbit/s  
95th percentile per-packet one-way delay: 146.092 ms  
Loss rate: 1.01%  
-- Flow 1:  
Average throughput: 514.29 Mbit/s  
95th percentile per-packet one-way delay: 154.486 ms  
Loss rate: 0.45%  
-- Flow 2:  
Average throughput: 327.50 Mbit/s  
95th percentile per-packet one-way delay: 137.206 ms  
Loss rate: 1.58%  
-- Flow 3:  
Average throughput: 236.20 Mbit/s  
95th percentile per-packet one-way delay: 134.290 ms  
Loss rate: 3.07%

Run 5: Report of FillP — Data Link



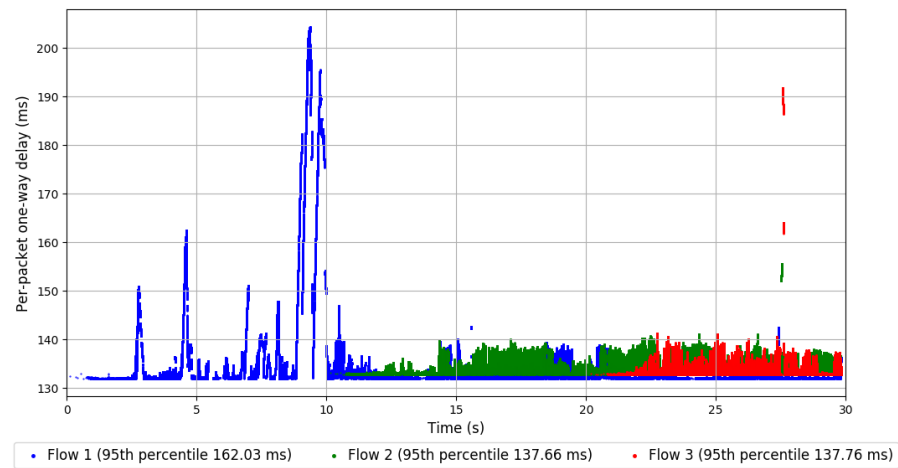
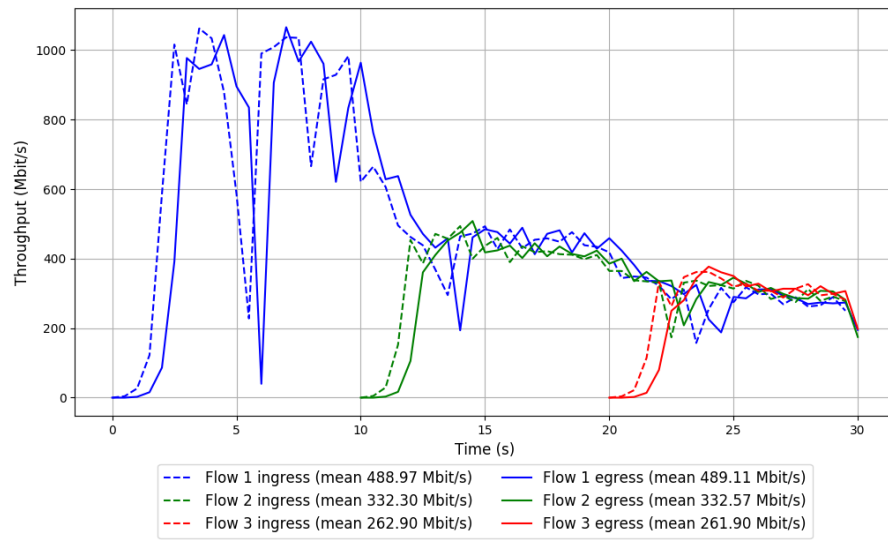


Run 1: Statistics of FillP-Sheep

Start at: 2019-08-27 08:57:00  
End at: 2019-08-27 08:57:30  
Local clock offset: -0.312 ms  
Remote clock offset: -0.173 ms

# Below is generated by plot.py at 2019-08-27 13:27:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 794.26 Mbit/s  
95th percentile per-packet one-way delay: 147.758 ms  
Loss rate: 1.23%  
-- Flow 1:  
Average throughput: 489.11 Mbit/s  
95th percentile per-packet one-way delay: 162.025 ms  
Loss rate: 0.90%  
-- Flow 2:  
Average throughput: 332.57 Mbit/s  
95th percentile per-packet one-way delay: 137.663 ms  
Loss rate: 1.28%  
-- Flow 3:  
Average throughput: 261.90 Mbit/s  
95th percentile per-packet one-way delay: 137.758 ms  
Loss rate: 3.00%

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

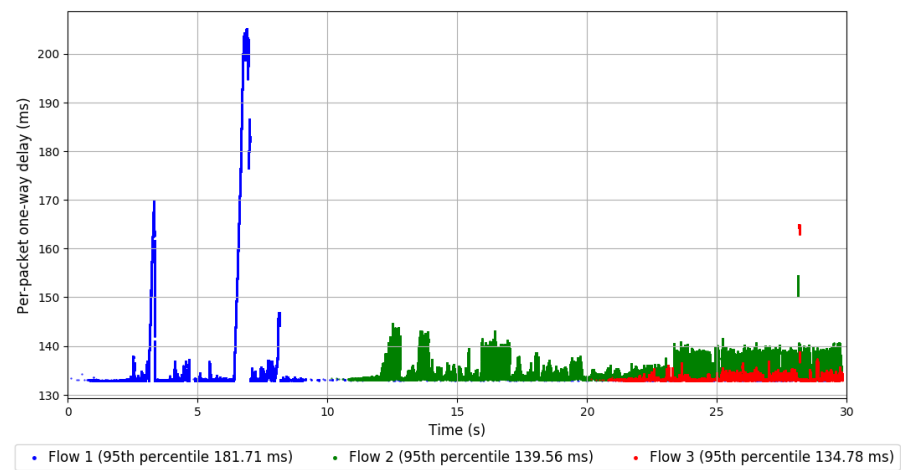
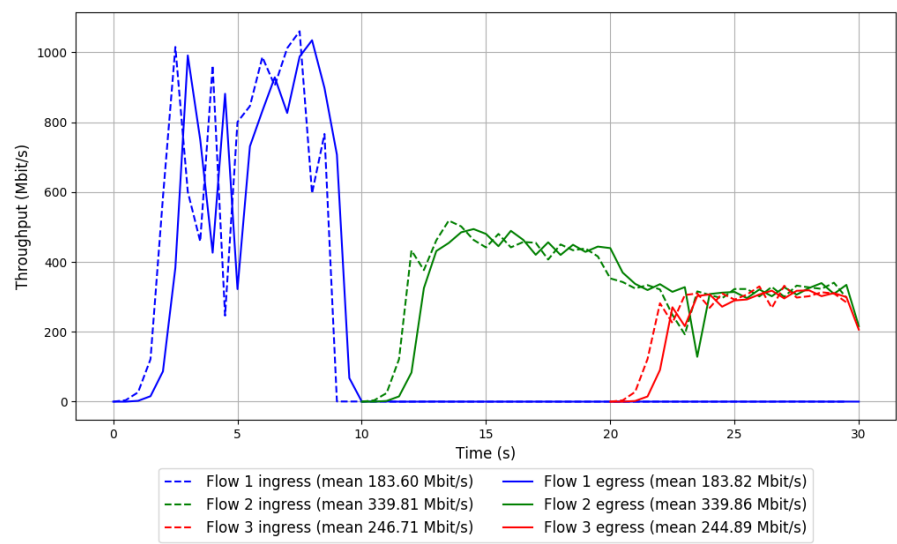


Run 2: Statistics of FillP-Sheep

Start at: 2019-08-27 09:40:44  
End at: 2019-08-27 09:41:14  
Local clock offset: 0.125 ms  
Remote clock offset: -0.124 ms

# Below is generated by plot.py at 2019-08-27 13:27:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 487.94 Mbit/s  
95th percentile per-packet one-way delay: 143.198 ms  
Loss rate: 1.57%  
-- Flow 1:  
Average throughput: 183.82 Mbit/s  
95th percentile per-packet one-way delay: 181.712 ms  
Loss rate: 1.11%  
-- Flow 2:  
Average throughput: 339.86 Mbit/s  
95th percentile per-packet one-way delay: 139.555 ms  
Loss rate: 1.35%  
-- Flow 3:  
Average throughput: 244.89 Mbit/s  
95th percentile per-packet one-way delay: 134.778 ms  
Loss rate: 3.23%

Run 2: Report of FillP-Sheep — Data Link

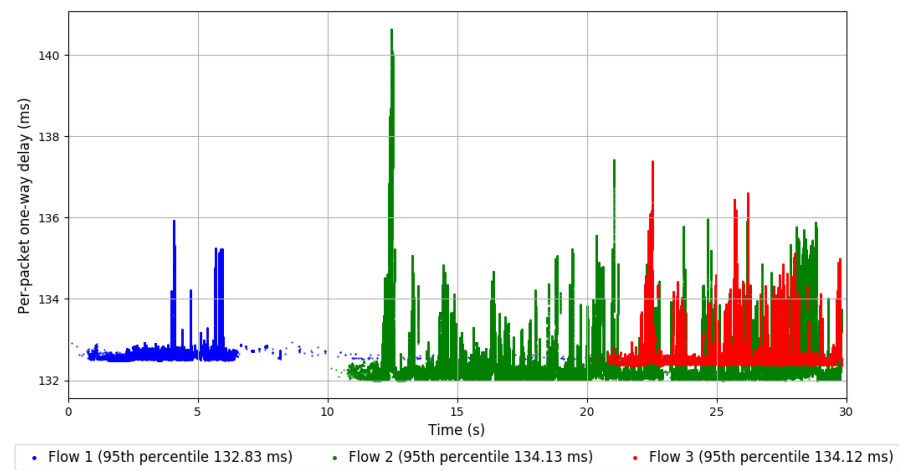
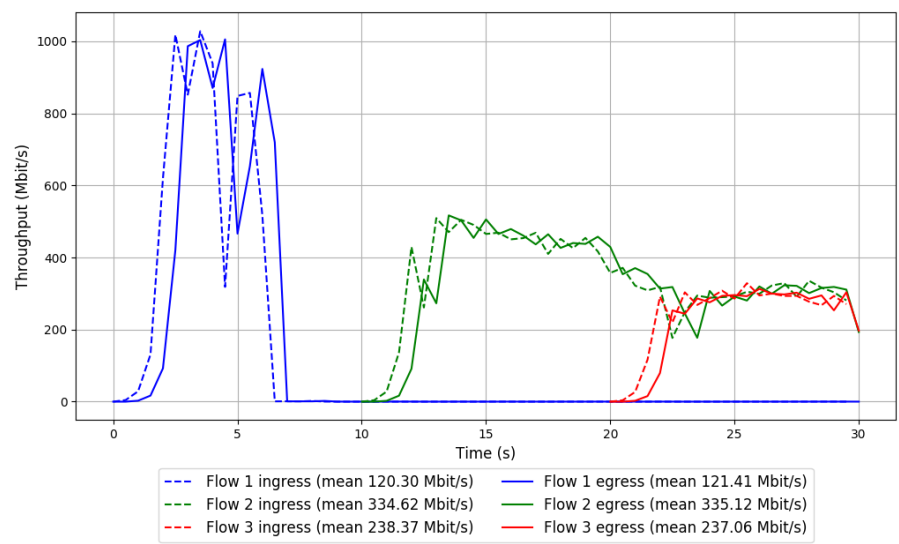


Run 3: Statistics of FillP-Sheep

Start at: 2019-08-27 10:24:11  
End at: 2019-08-27 10:24:41  
Local clock offset: -0.028 ms  
Remote clock offset: -0.157 ms

# Below is generated by plot.py at 2019-08-27 13:27:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 419.93 Mbit/s  
95th percentile per-packet one-way delay: 133.948 ms  
Loss rate: 1.25%  
-- Flow 1:  
Average throughput: 121.41 Mbit/s  
95th percentile per-packet one-way delay: 132.828 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 335.12 Mbit/s  
95th percentile per-packet one-way delay: 134.128 ms  
Loss rate: 1.28%  
-- Flow 3:  
Average throughput: 237.06 Mbit/s  
95th percentile per-packet one-way delay: 134.123 ms  
Loss rate: 3.08%

Run 3: Report of FillP-Sheep — Data Link

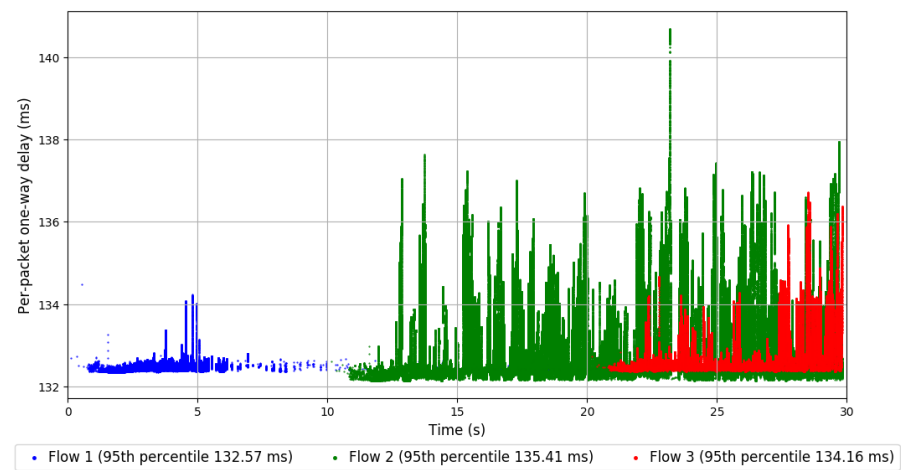
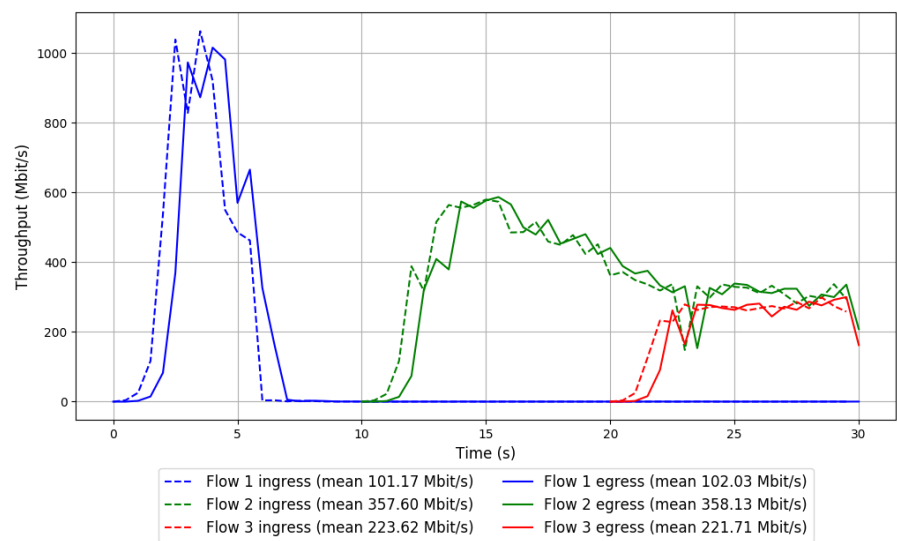


Run 4: Statistics of FillP-Sheep

Start at: 2019-08-27 11:07:50  
End at: 2019-08-27 11:08:20  
Local clock offset: -0.762 ms  
Remote clock offset: -0.391 ms

# Below is generated by plot.py at 2019-08-27 13:27:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 411.35 Mbit/s  
95th percentile per-packet one-way delay: 134.893 ms  
Loss rate: 1.28%  
-- Flow 1:  
Average throughput: 102.03 Mbit/s  
95th percentile per-packet one-way delay: 132.571 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 358.13 Mbit/s  
95th percentile per-packet one-way delay: 135.406 ms  
Loss rate: 1.16%  
-- Flow 3:  
Average throughput: 221.71 Mbit/s  
95th percentile per-packet one-way delay: 134.155 ms  
Loss rate: 3.37%

Run 4: Report of FillP-Sheep — Data Link



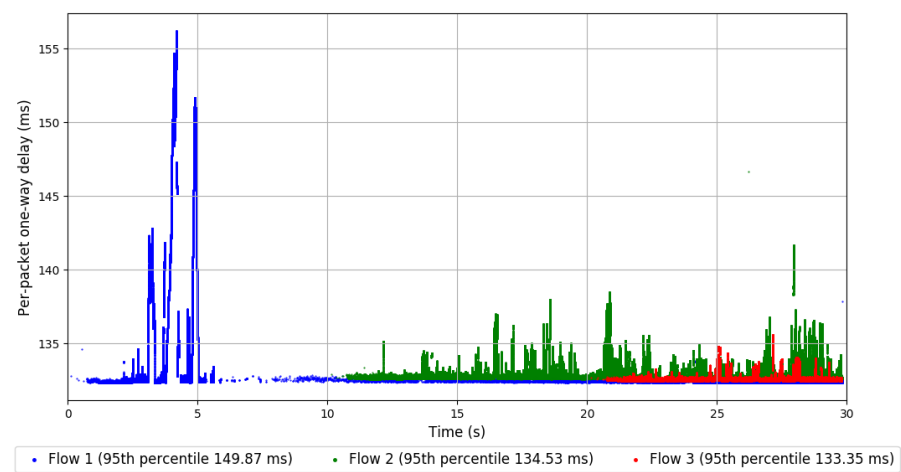
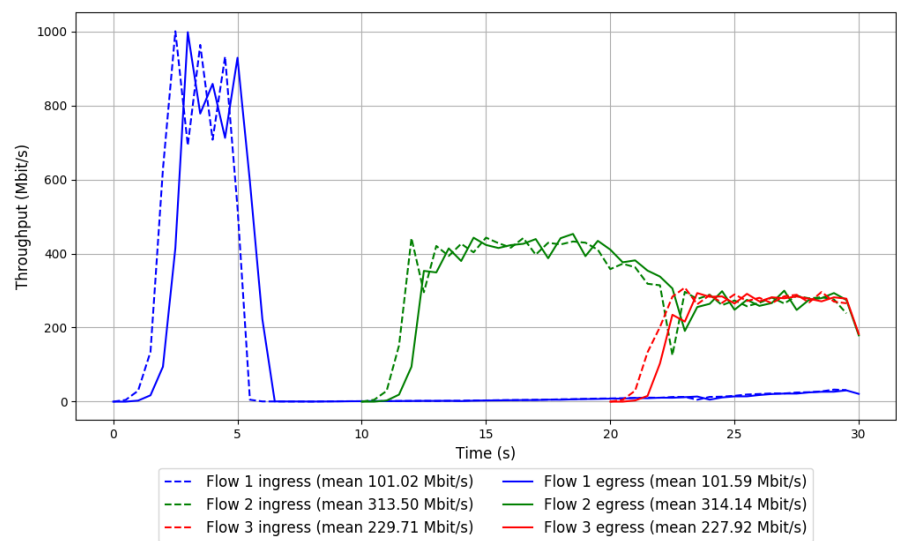


Run 5: Statistics of FillP-Sheep

Start at: 2019-08-27 11:51:18  
End at: 2019-08-27 11:51:48  
Local clock offset: -0.395 ms  
Remote clock offset: -0.293 ms

```
# Below is generated by plot.py at 2019-08-27 13:27:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 383.74 Mbit/s
95th percentile per-packet one-way delay: 139.723 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 101.59 Mbit/s
95th percentile per-packet one-way delay: 149.865 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 314.14 Mbit/s
95th percentile per-packet one-way delay: 134.534 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 227.92 Mbit/s
95th percentile per-packet one-way delay: 133.347 ms
Loss rate: 3.57%
```

Run 5: Report of FillP-Sheep — Data Link

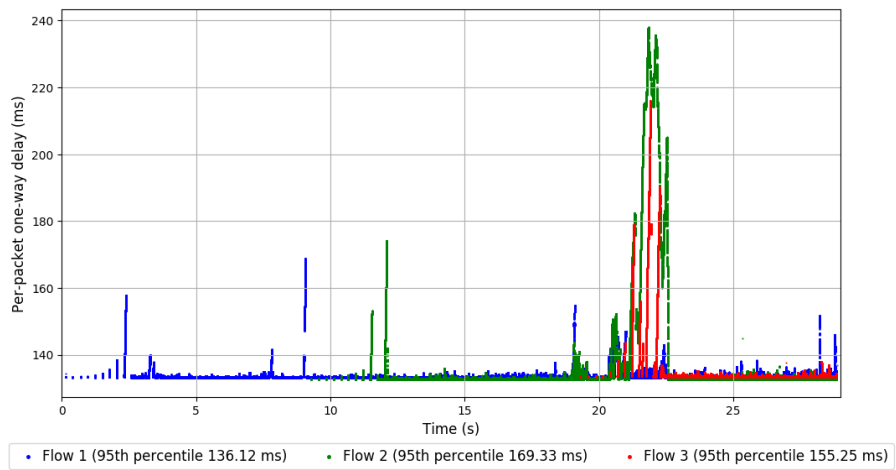
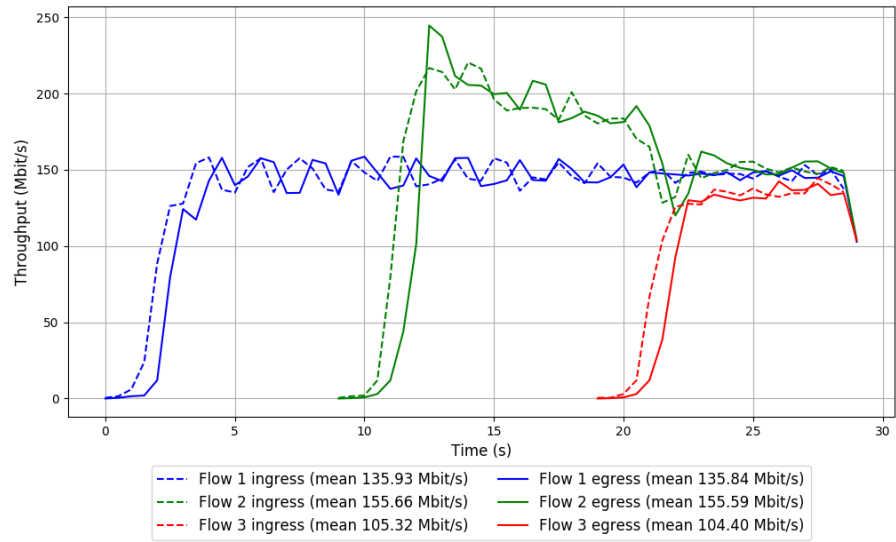


Run 1: Statistics of Indigo

Start at: 2019-08-27 09:18:45  
End at: 2019-08-27 09:19:15  
Local clock offset: 0.119 ms  
Remote clock offset: -0.164 ms

# Below is generated by plot.py at 2019-08-27 13:27:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 276.47 Mbit/s  
95th percentile per-packet one-way delay: 143.577 ms  
Loss rate: 1.44%  
-- Flow 1:  
Average throughput: 135.84 Mbit/s  
95th percentile per-packet one-way delay: 136.120 ms  
Loss rate: 0.99%  
-- Flow 2:  
Average throughput: 155.59 Mbit/s  
95th percentile per-packet one-way delay: 169.327 ms  
Loss rate: 1.30%  
-- Flow 3:  
Average throughput: 104.40 Mbit/s  
95th percentile per-packet one-way delay: 155.252 ms  
Loss rate: 3.56%

## Run 1: Report of Indigo — Data Link

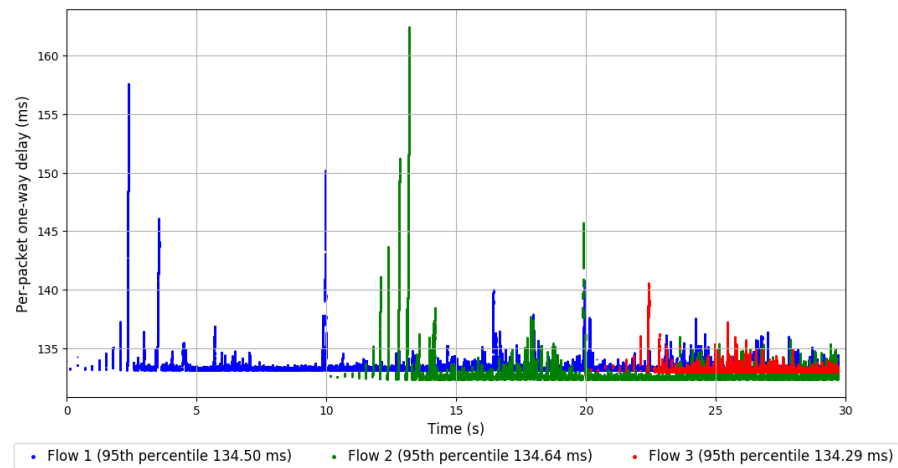
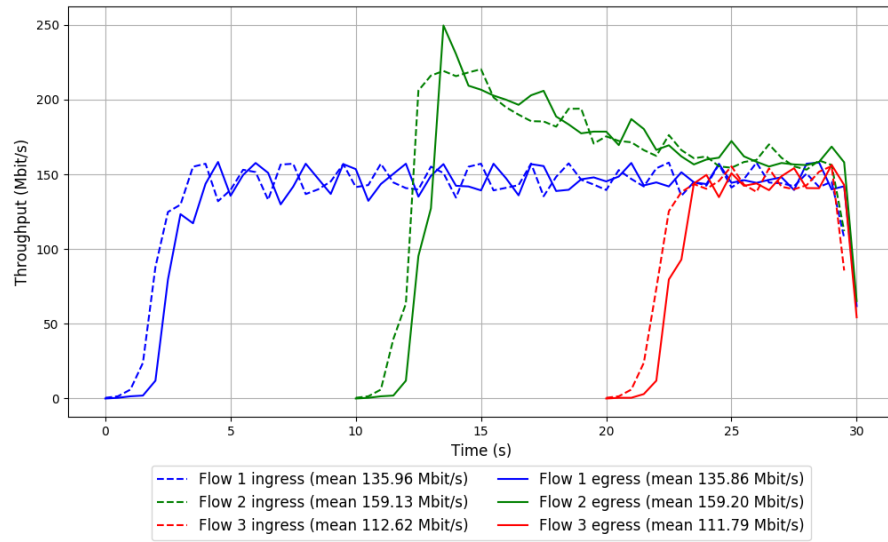


Run 2: Statistics of Indigo

Start at: 2019-08-27 10:02:15  
End at: 2019-08-27 10:02:45  
Local clock offset: 0.33 ms  
Remote clock offset: -0.093 ms

# Below is generated by plot.py at 2019-08-27 13:31:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 277.09 Mbit/s  
95th percentile per-packet one-way delay: 134.509 ms  
Loss rate: 1.42%  
-- Flow 1:  
Average throughput: 135.86 Mbit/s  
95th percentile per-packet one-way delay: 134.496 ms  
Loss rate: 0.97%  
-- Flow 2:  
Average throughput: 159.20 Mbit/s  
95th percentile per-packet one-way delay: 134.644 ms  
Loss rate: 1.30%  
-- Flow 3:  
Average throughput: 111.79 Mbit/s  
95th percentile per-packet one-way delay: 134.293 ms  
Loss rate: 3.41%

## Run 2: Report of Indigo — Data Link

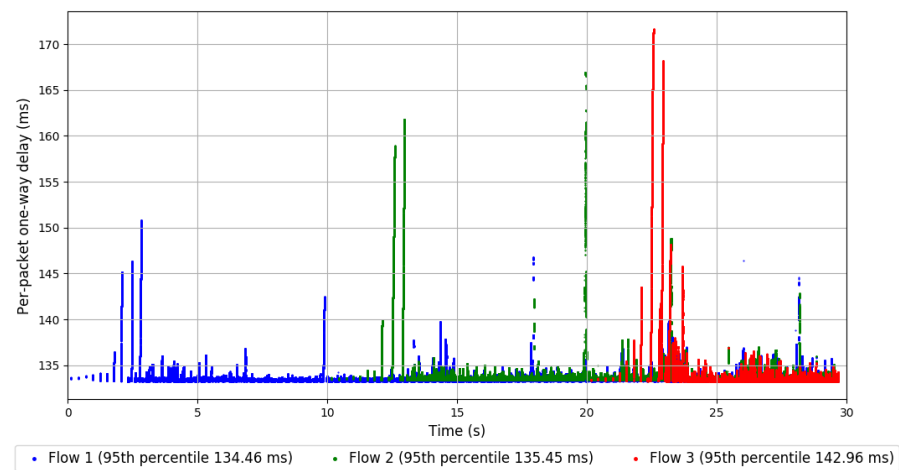
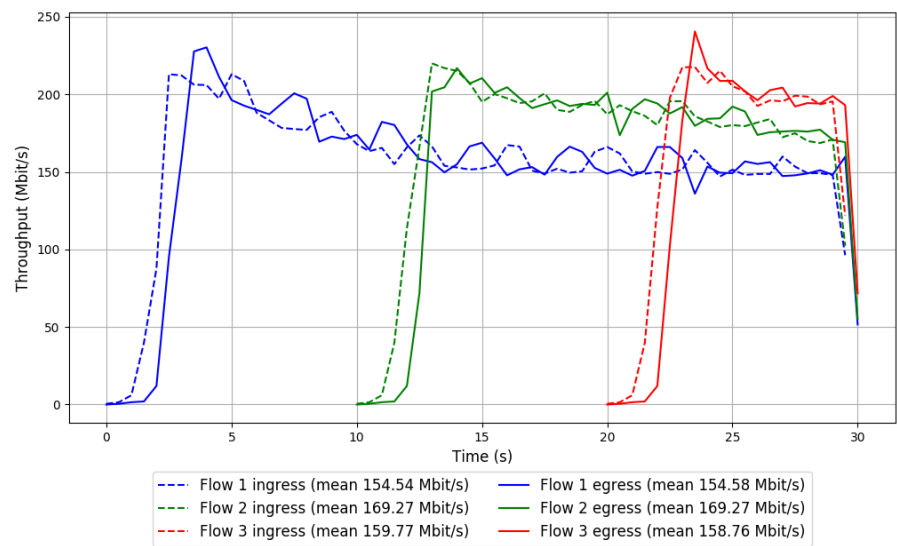


Run 3: Statistics of Indigo

Start at: 2019-08-27 10:45:36  
End at: 2019-08-27 10:46:06  
Local clock offset: 0.586 ms  
Remote clock offset: -0.168 ms

# Below is generated by plot.py at 2019-08-27 13:32:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 317.60 Mbit/s  
95th percentile per-packet one-way delay: 135.441 ms  
Loss rate: 1.44%  
-- Flow 1:  
Average throughput: 154.58 Mbit/s  
95th percentile per-packet one-way delay: 134.461 ms  
Loss rate: 0.87%  
-- Flow 2:  
Average throughput: 169.27 Mbit/s  
95th percentile per-packet one-way delay: 135.446 ms  
Loss rate: 1.33%  
-- Flow 3:  
Average throughput: 158.76 Mbit/s  
95th percentile per-packet one-way delay: 142.955 ms  
Loss rate: 3.32%

Run 3: Report of Indigo — Data Link



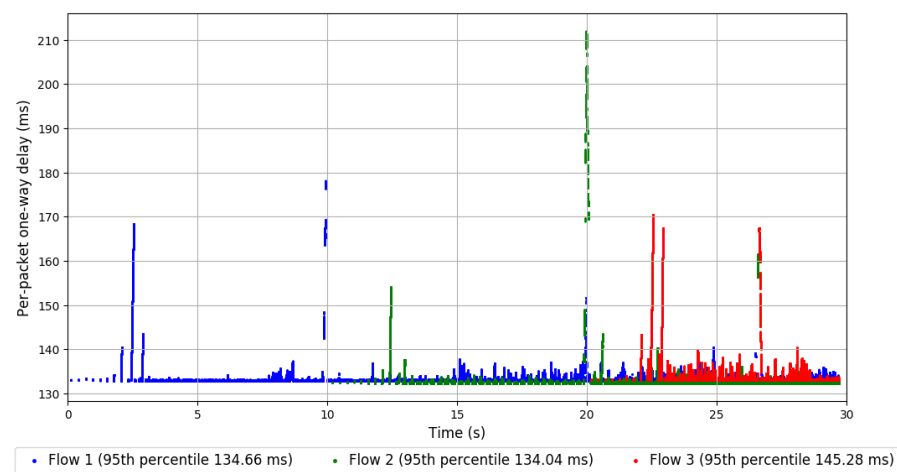
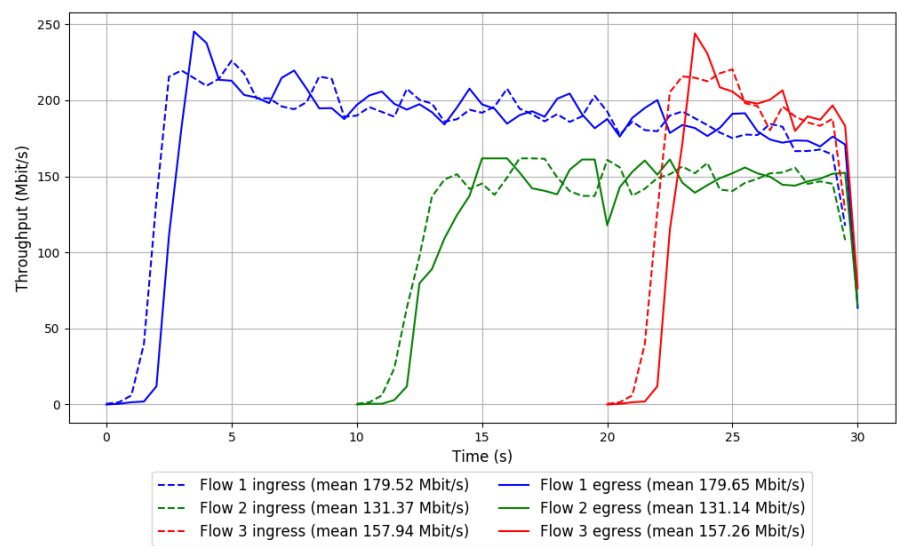


Run 4: Statistics of Indigo

Start at: 2019-08-27 11:29:18  
End at: 2019-08-27 11:29:48  
Local clock offset: -0.166 ms  
Remote clock offset: -0.323 ms

# Below is generated by plot.py at 2019-08-27 13:32:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 317.01 Mbit/s  
95th percentile per-packet one-way delay: 135.446 ms  
Loss rate: 1.39%  
-- Flow 1:  
Average throughput: 179.65 Mbit/s  
95th percentile per-packet one-way delay: 134.657 ms  
Loss rate: 0.82%  
-- Flow 2:  
Average throughput: 131.14 Mbit/s  
95th percentile per-packet one-way delay: 134.044 ms  
Loss rate: 1.52%  
-- Flow 3:  
Average throughput: 157.26 Mbit/s  
95th percentile per-packet one-way delay: 145.282 ms  
Loss rate: 3.13%

Run 4: Report of Indigo — Data Link

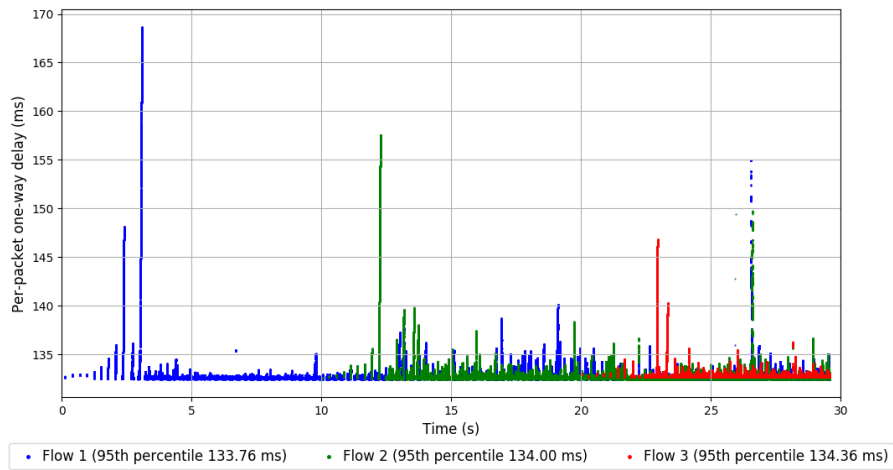
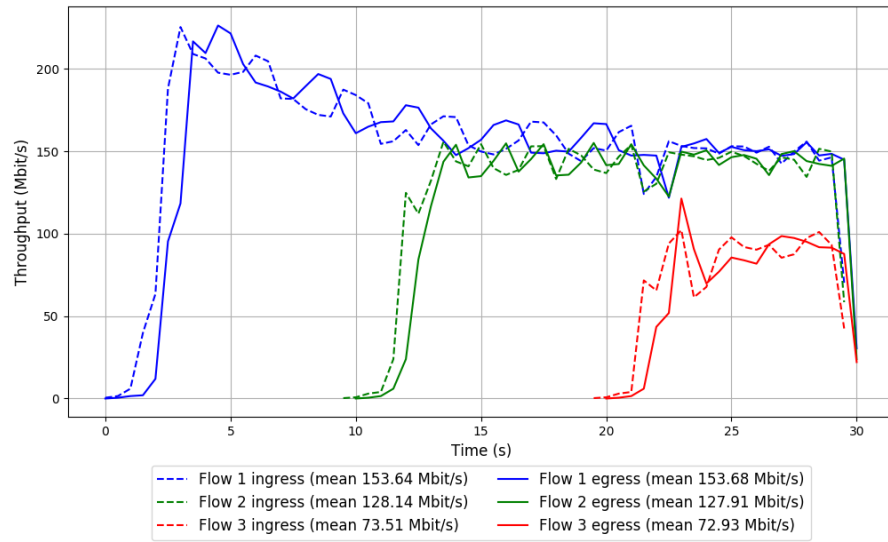


Run 5: Statistics of Indigo

Start at: 2019-08-27 12:12:43  
End at: 2019-08-27 12:13:13  
Local clock offset: -0.327 ms  
Remote clock offset: -0.298 ms

# Below is generated by plot.py at 2019-08-27 13:32:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 262.26 Mbit/s  
95th percentile per-packet one-way delay: 133.903 ms  
Loss rate: 1.32%  
-- Flow 1:  
Average throughput: 153.68 Mbit/s  
95th percentile per-packet one-way delay: 133.756 ms  
Loss rate: 0.86%  
-- Flow 2:  
Average throughput: 127.91 Mbit/s  
95th percentile per-packet one-way delay: 133.998 ms  
Loss rate: 1.51%  
-- Flow 3:  
Average throughput: 72.93 Mbit/s  
95th percentile per-packet one-way delay: 134.362 ms  
Loss rate: 3.49%

## Run 5: Report of Indigo — Data Link

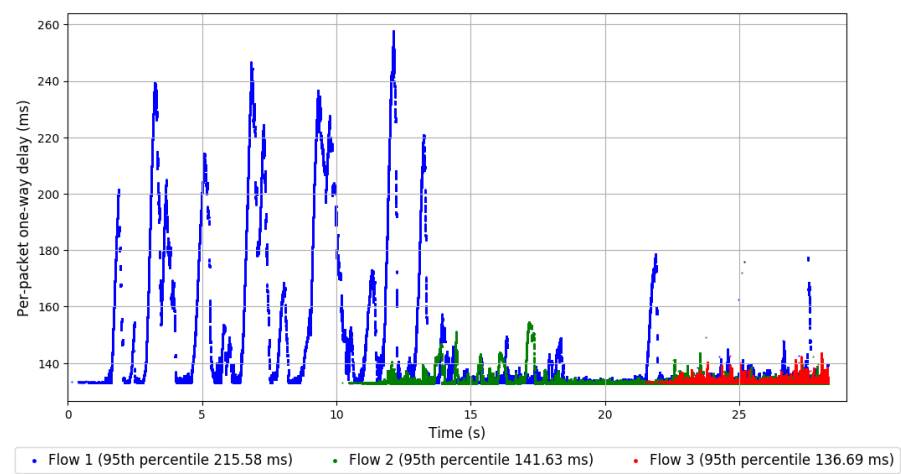
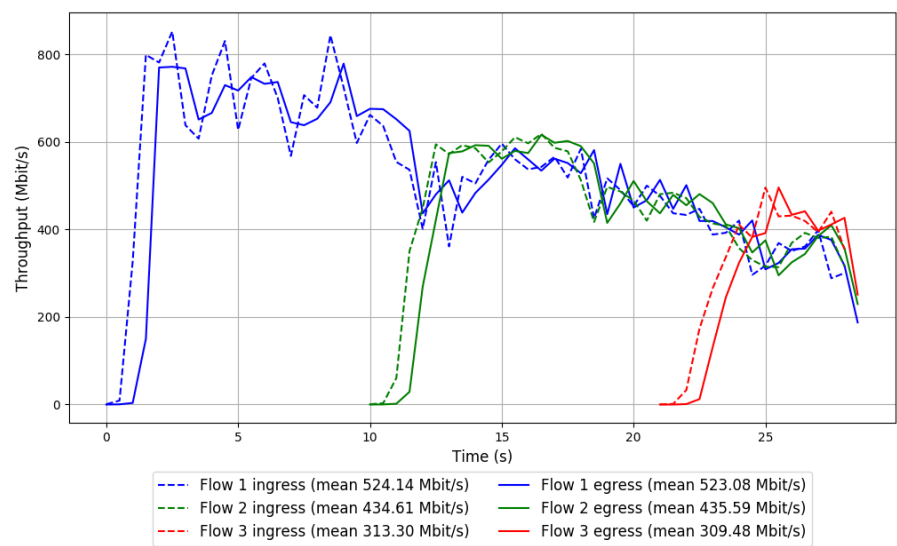


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-08-27 09:29:36  
End at: 2019-08-27 09:30:06  
Local clock offset: -0.128 ms  
Remote clock offset: -0.193 ms

# Below is generated by plot.py at 2019-08-27 13:36:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 879.85 Mbit/s  
95th percentile per-packet one-way delay: 202.731 ms  
Loss rate: 1.52%  
-- Flow 1:  
Average throughput: 523.08 Mbit/s  
95th percentile per-packet one-way delay: 215.578 ms  
Loss rate: 1.16%  
-- Flow 2:  
Average throughput: 435.59 Mbit/s  
95th percentile per-packet one-way delay: 141.635 ms  
Loss rate: 1.23%  
-- Flow 3:  
Average throughput: 309.48 Mbit/s  
95th percentile per-packet one-way delay: 136.687 ms  
Loss rate: 4.89%

Run 1: Report of Indigo-MusesC3 — Data Link

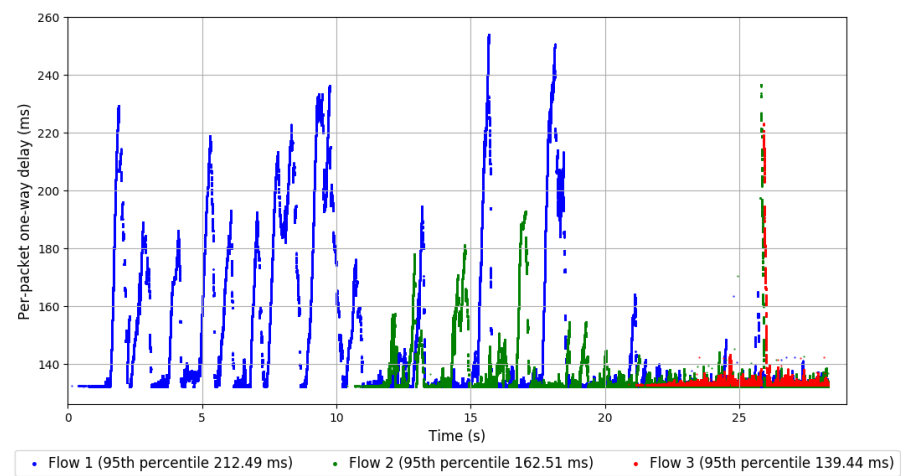
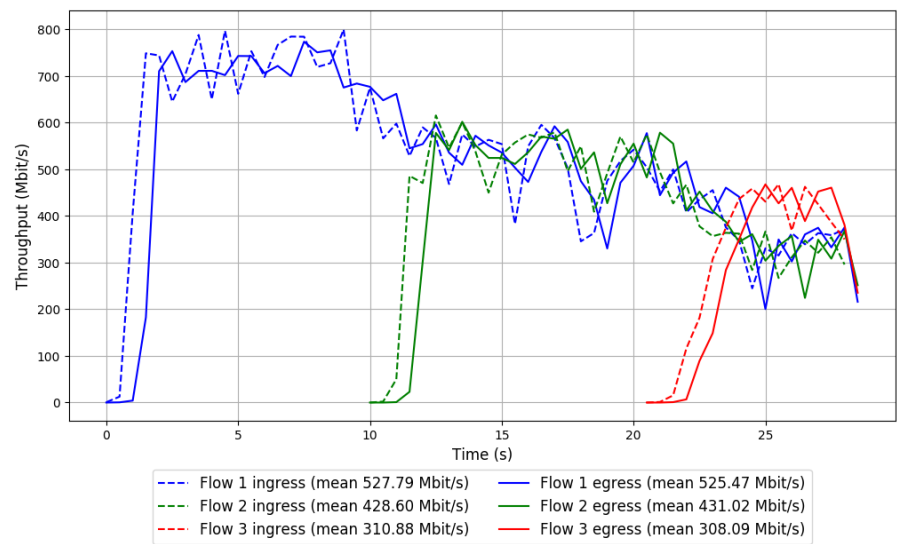


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-08-27 10:12:58  
End at: 2019-08-27 10:13:28  
Local clock offset: 0.18 ms  
Remote clock offset: -0.122 ms

# Below is generated by plot.py at 2019-08-27 13:38:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 880.50 Mbit/s  
95th percentile per-packet one-way delay: 202.818 ms  
Loss rate: 1.53%  
-- Flow 1:  
Average throughput: 525.47 Mbit/s  
95th percentile per-packet one-way delay: 212.488 ms  
Loss rate: 1.38%  
-- Flow 2:  
Average throughput: 431.02 Mbit/s  
95th percentile per-packet one-way delay: 162.515 ms  
Loss rate: 0.92%  
-- Flow 3:  
Average throughput: 308.09 Mbit/s  
95th percentile per-packet one-way delay: 139.443 ms  
Loss rate: 4.43%

Run 2: Report of Indigo-MusesC3 — Data Link



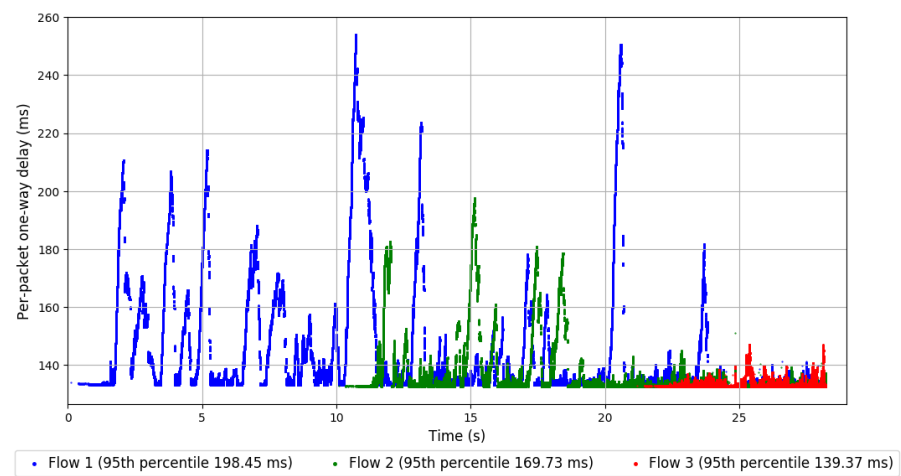
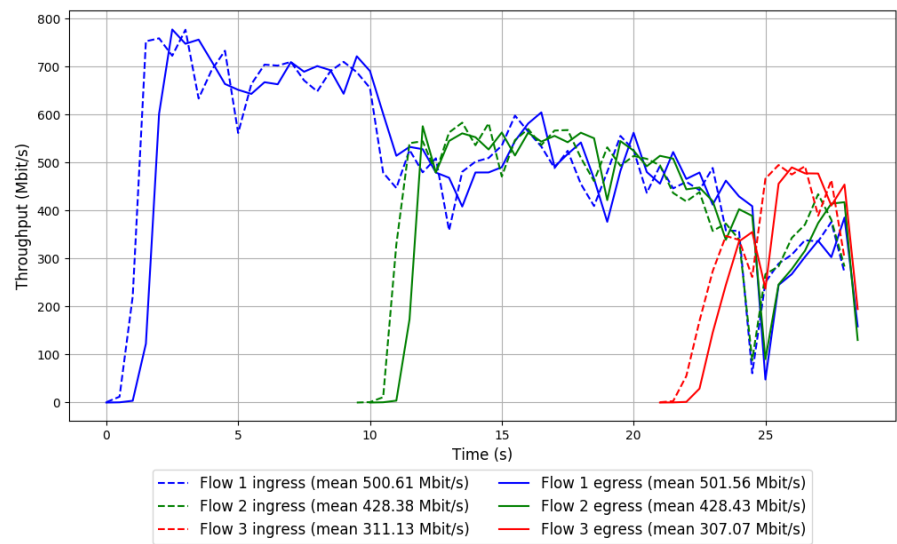


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-08-27 10:56:28  
End at: 2019-08-27 10:56:58  
Local clock offset: 0.272 ms  
Remote clock offset: -0.332 ms

```
# Below is generated by plot.py at 2019-08-27 13:38:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 854.75 Mbit/s
95th percentile per-packet one-way delay: 184.421 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 501.56 Mbit/s
95th percentile per-packet one-way delay: 198.451 ms
Loss rate: 0.75%
-- Flow 2:
Average throughput: 428.43 Mbit/s
95th percentile per-packet one-way delay: 169.727 ms
Loss rate: 1.44%
-- Flow 3:
Average throughput: 307.07 Mbit/s
95th percentile per-packet one-way delay: 139.370 ms
Loss rate: 4.92%
```

Run 3: Report of Indigo-MusesC3 — Data Link

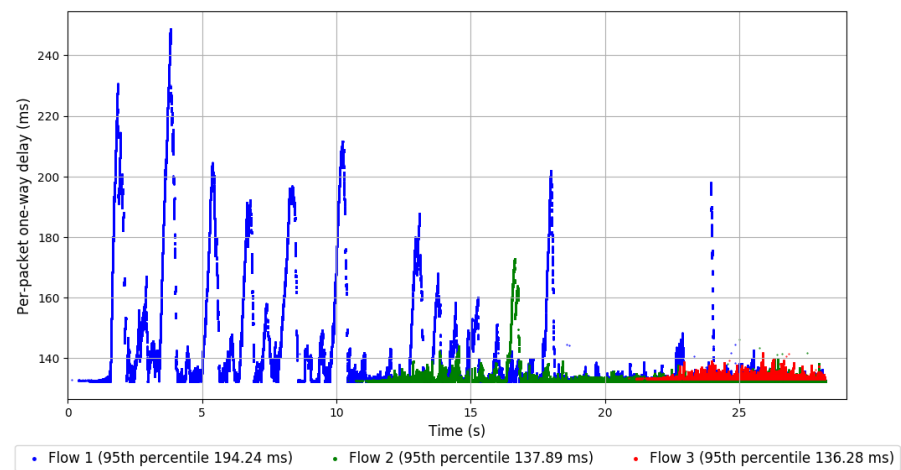
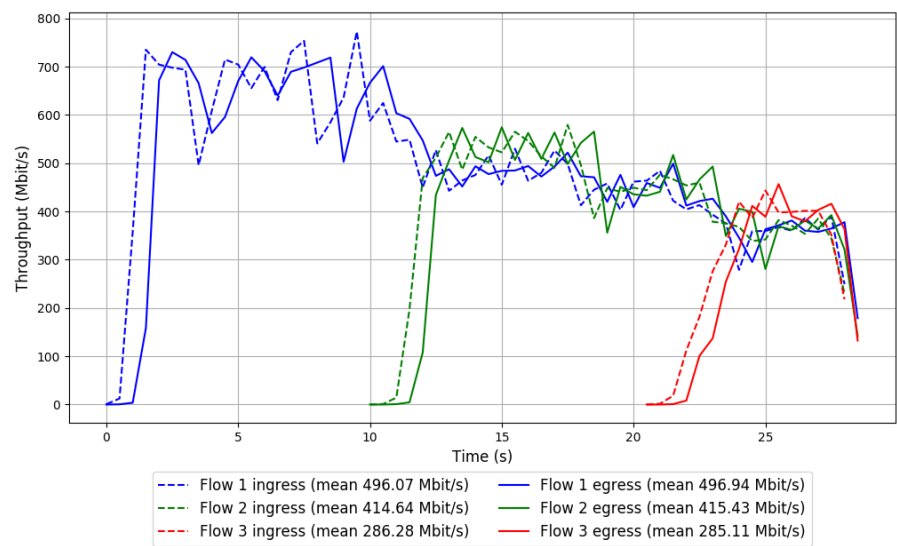


Run 4: Statistics of Indigo-MusesC3

Start at: 2019-08-27 11:40:15  
End at: 2019-08-27 11:40:45  
Local clock offset: -0.22 ms  
Remote clock offset: -0.641 ms

# Below is generated by plot.py at 2019-08-27 13:38:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 833.82 Mbit/s  
95th percentile per-packet one-way delay: 184.768 ms  
Loss rate: 1.23%  
-- Flow 1:  
Average throughput: 496.94 Mbit/s  
95th percentile per-packet one-way delay: 194.239 ms  
Loss rate: 0.77%  
-- Flow 2:  
Average throughput: 415.43 Mbit/s  
95th percentile per-packet one-way delay: 137.894 ms  
Loss rate: 1.29%  
-- Flow 3:  
Average throughput: 285.11 Mbit/s  
95th percentile per-packet one-way delay: 136.278 ms  
Loss rate: 4.03%

Run 4: Report of Indigo-MusesC3 — Data Link

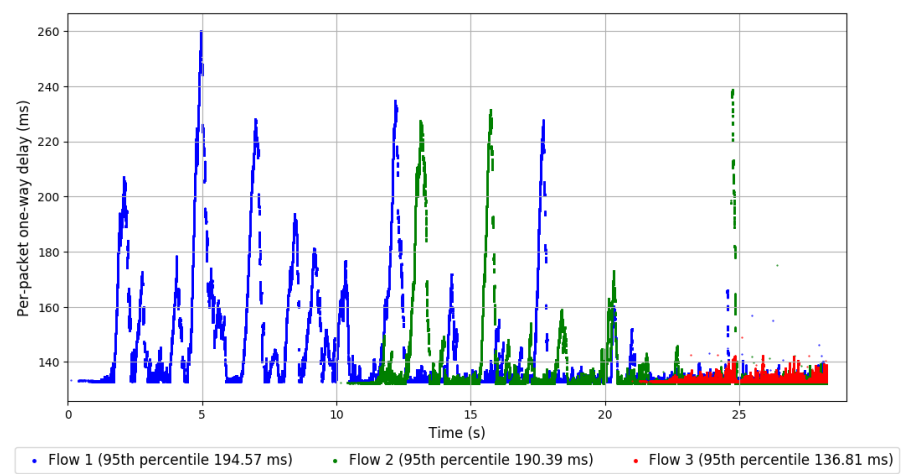
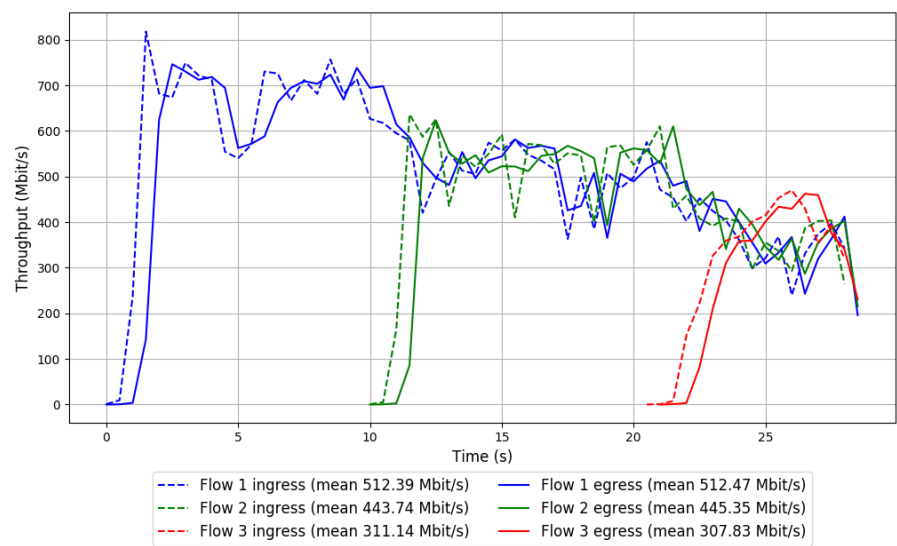


Run 5: Statistics of Indigo-MusesC3

Start at: 2019-08-27 12:23:29  
End at: 2019-08-27 12:23:59  
Local clock offset: 0.074 ms  
Remote clock offset: -0.295 ms

# Below is generated by plot.py at 2019-08-27 13:43:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 878.31 Mbit/s  
95th percentile per-packet one-way delay: 191.477 ms  
Loss rate: 1.32%  
-- Flow 1:  
Average throughput: 512.47 Mbit/s  
95th percentile per-packet one-way delay: 194.567 ms  
Loss rate: 0.93%  
-- Flow 2:  
Average throughput: 445.35 Mbit/s  
95th percentile per-packet one-way delay: 190.392 ms  
Loss rate: 1.09%  
-- Flow 3:  
Average throughput: 307.83 Mbit/s  
95th percentile per-packet one-way delay: 136.812 ms  
Loss rate: 4.58%

Run 5: Report of Indigo-MusesC3 — Data Link

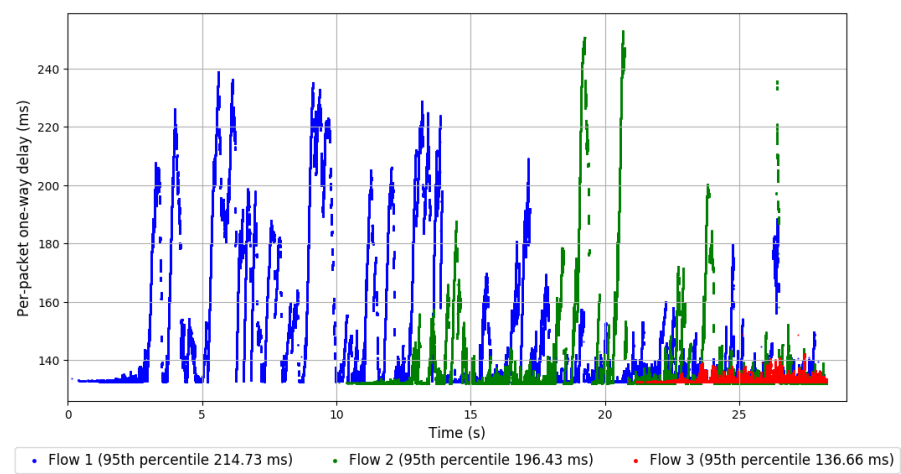
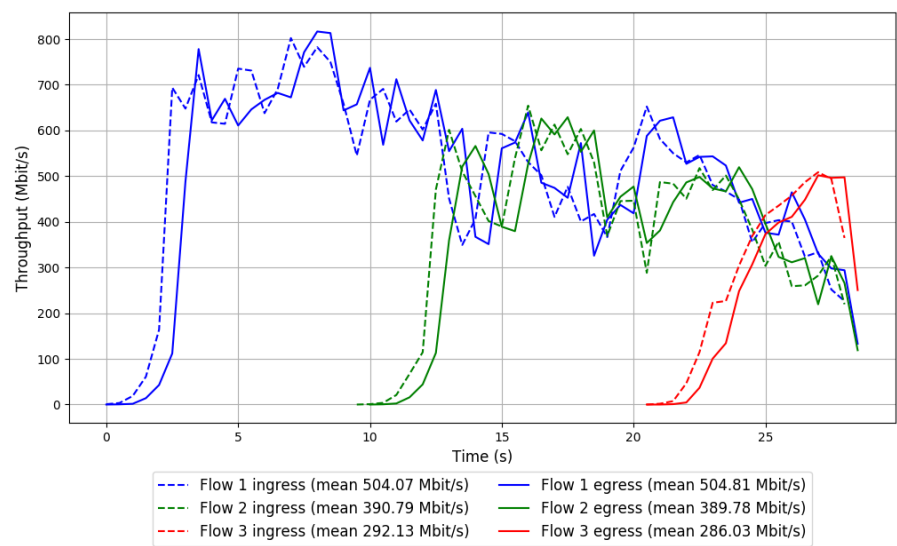


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-08-27 09:36:40  
End at: 2019-08-27 09:37:10  
Local clock offset: -0.383 ms  
Remote clock offset: -0.149 ms

# Below is generated by plot.py at 2019-08-27 13:43:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 831.14 Mbit/s  
95th percentile per-packet one-way delay: 209.140 ms  
Loss rate: 1.50%  
-- Flow 1:  
Average throughput: 504.81 Mbit/s  
95th percentile per-packet one-way delay: 214.733 ms  
Loss rate: 0.77%  
-- Flow 2:  
Average throughput: 389.78 Mbit/s  
95th percentile per-packet one-way delay: 196.431 ms  
Loss rate: 1.68%  
-- Flow 3:  
Average throughput: 286.03 Mbit/s  
95th percentile per-packet one-way delay: 136.655 ms  
Loss rate: 5.52%

Run 1: Report of Indigo-MusesC5 — Data Link



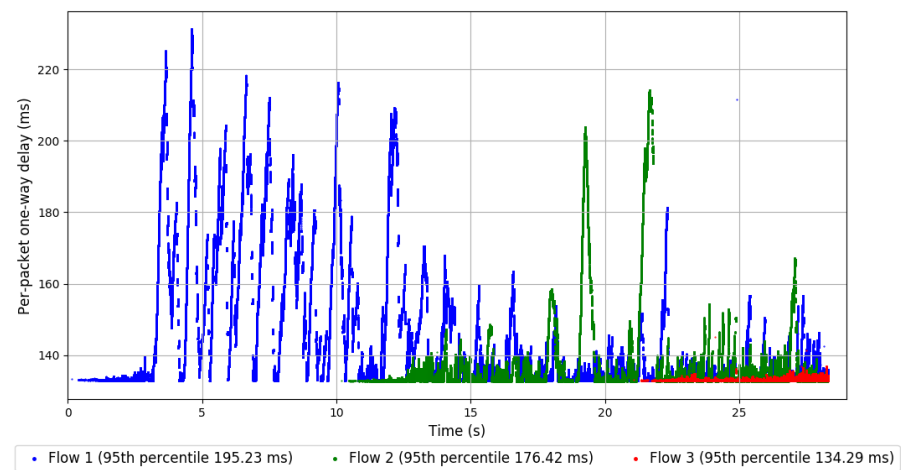
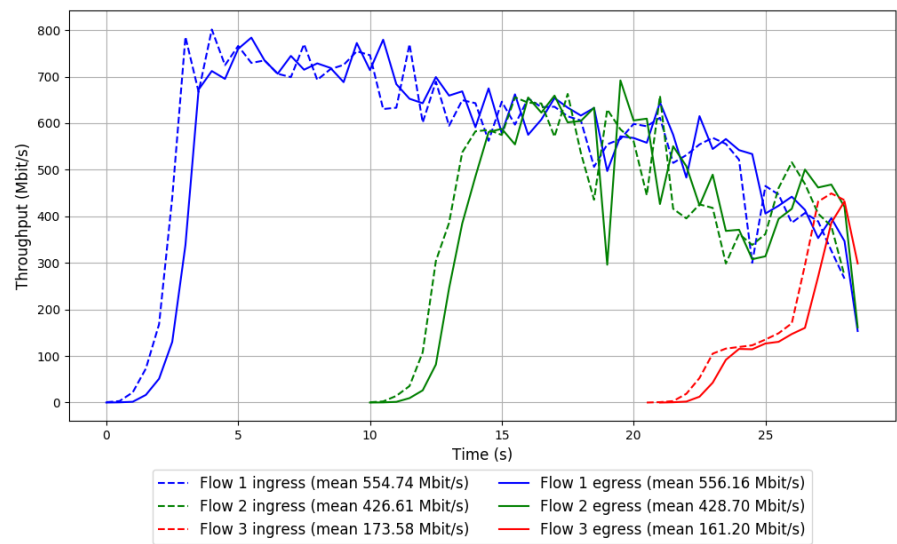


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-08-27 10:20:02  
End at: 2019-08-27 10:20:32  
Local clock offset: 0.218 ms  
Remote clock offset: -0.163 ms

# Below is generated by plot.py at 2019-08-27 13:45:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 873.02 Mbit/s  
95th percentile per-packet one-way delay: 192.503 ms  
Loss rate: 1.31%  
-- Flow 1:  
Average throughput: 556.16 Mbit/s  
95th percentile per-packet one-way delay: 195.231 ms  
Loss rate: 0.70%  
-- Flow 2:  
Average throughput: 428.70 Mbit/s  
95th percentile per-packet one-way delay: 176.420 ms  
Loss rate: 1.02%  
-- Flow 3:  
Average throughput: 161.20 Mbit/s  
95th percentile per-packet one-way delay: 134.286 ms  
Loss rate: 10.46%

Run 2: Report of Indigo-MusesC5 — Data Link

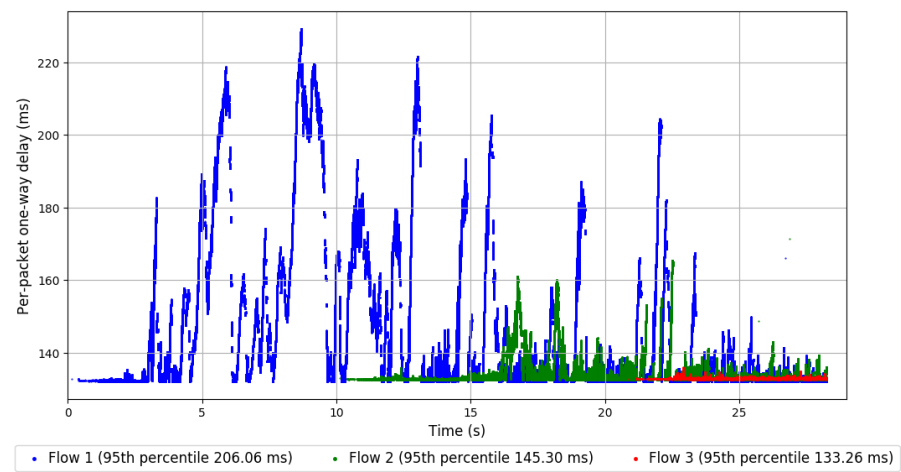
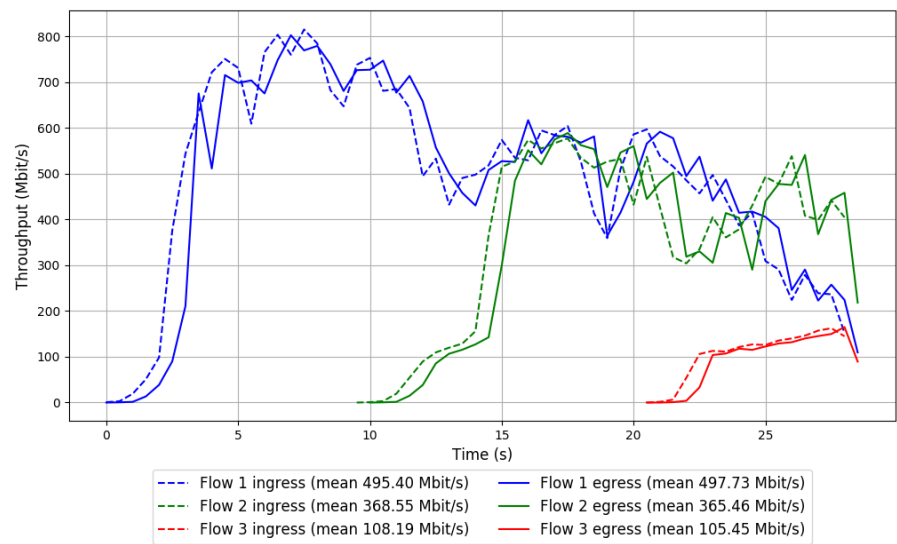


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-08-27 11:03:49  
End at: 2019-08-27 11:04:19  
Local clock offset: -0.407 ms  
Remote clock offset: -0.342 ms

# Below is generated by plot.py at 2019-08-27 13:45:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 760.86 Mbit/s  
95th percentile per-packet one-way delay: 200.529 ms  
Loss rate: 1.23%  
-- Flow 1:  
Average throughput: 497.73 Mbit/s  
95th percentile per-packet one-way delay: 206.060 ms  
Loss rate: 0.48%  
-- Flow 2:  
Average throughput: 365.46 Mbit/s  
95th percentile per-packet one-way delay: 145.300 ms  
Loss rate: 2.24%  
-- Flow 3:  
Average throughput: 105.45 Mbit/s  
95th percentile per-packet one-way delay: 133.265 ms  
Loss rate: 5.93%

Run 3: Report of Indigo-MusesC5 — Data Link

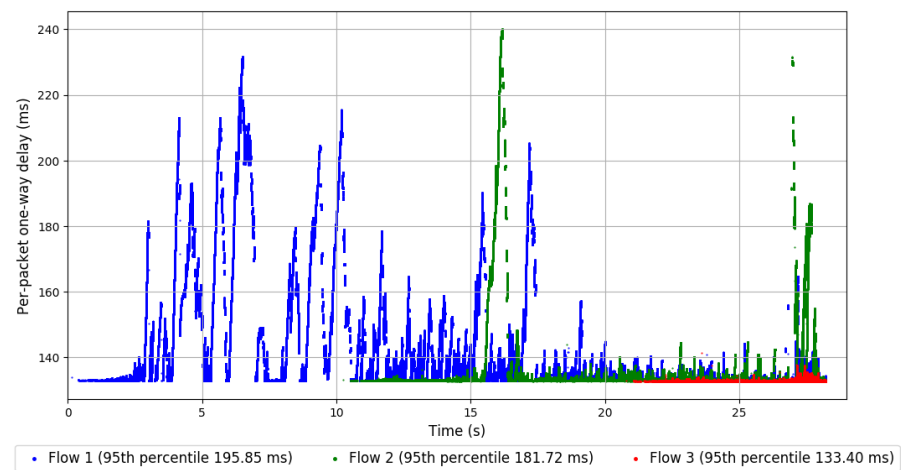
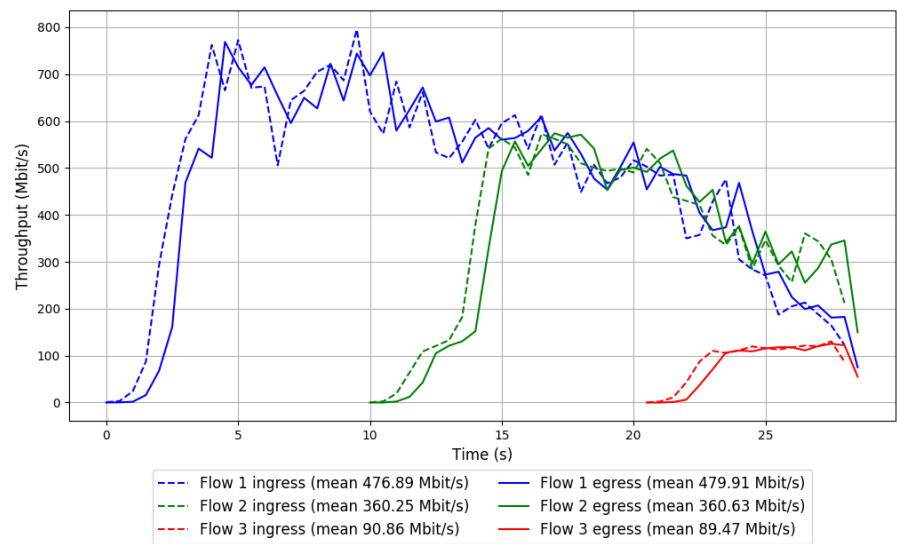


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-08-27 11:47:21  
End at: 2019-08-27 11:47:51  
Local clock offset: -0.234 ms  
Remote clock offset: -0.306 ms

# Below is generated by plot.py at 2019-08-27 13:47:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 734.16 Mbit/s  
95th percentile per-packet one-way delay: 192.849 ms  
Loss rate: 0.82%  
-- Flow 1:  
Average throughput: 479.91 Mbit/s  
95th percentile per-packet one-way delay: 195.850 ms  
Loss rate: 0.35%  
-- Flow 2:  
Average throughput: 360.63 Mbit/s  
95th percentile per-packet one-way delay: 181.715 ms  
Loss rate: 1.36%  
-- Flow 3:  
Average throughput: 89.47 Mbit/s  
95th percentile per-packet one-way delay: 133.396 ms  
Loss rate: 4.95%

Run 4: Report of Indigo-MusesC5 — Data Link

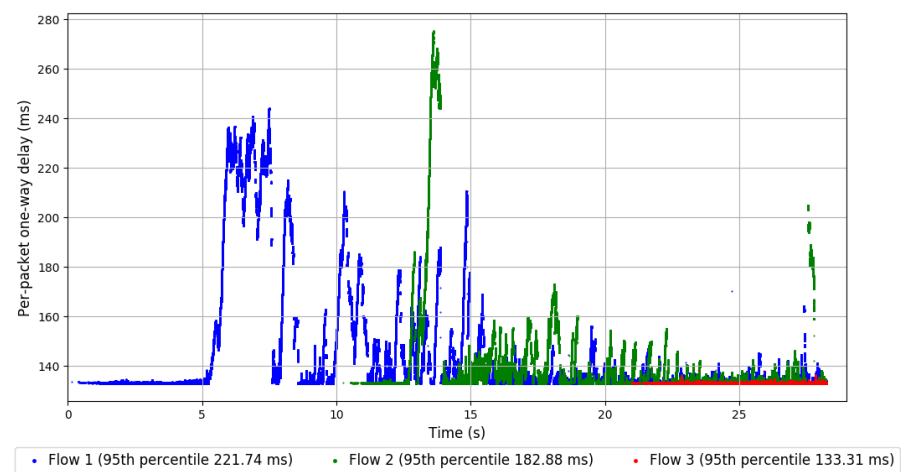
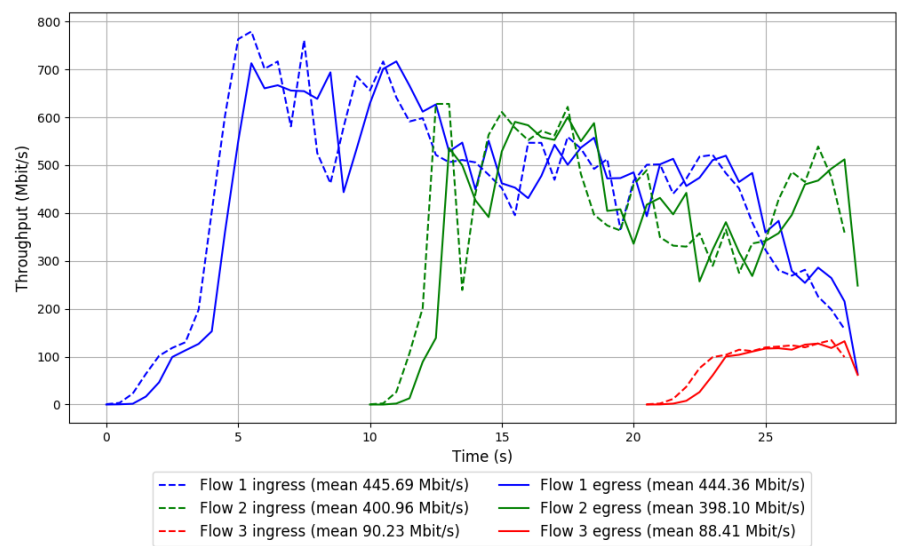


Run 5: Statistics of Indigo-MusesC5

Start at: 2019-08-27 12:30:55  
End at: 2019-08-27 12:31:25  
Local clock offset: 0.024 ms  
Remote clock offset: -0.188 ms

# Below is generated by plot.py at 2019-08-27 13:49:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 722.59 Mbit/s  
95th percentile per-packet one-way delay: 217.989 ms  
Loss rate: 1.69%  
-- Flow 1:  
Average throughput: 444.36 Mbit/s  
95th percentile per-packet one-way delay: 221.744 ms  
Loss rate: 1.21%  
-- Flow 2:  
Average throughput: 398.10 Mbit/s  
95th percentile per-packet one-way delay: 182.882 ms  
Loss rate: 2.17%  
-- Flow 3:  
Average throughput: 88.41 Mbit/s  
95th percentile per-packet one-way delay: 133.305 ms  
Loss rate: 5.38%

Run 5: Report of Indigo-MusesC5 — Data Link



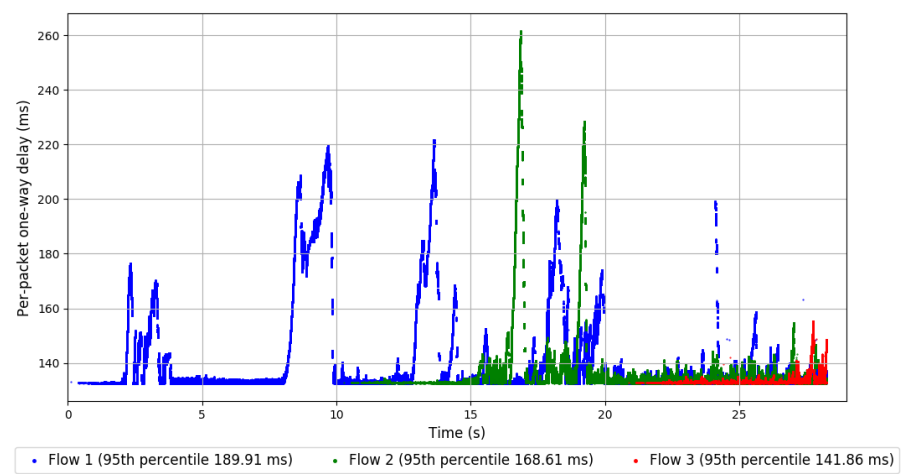
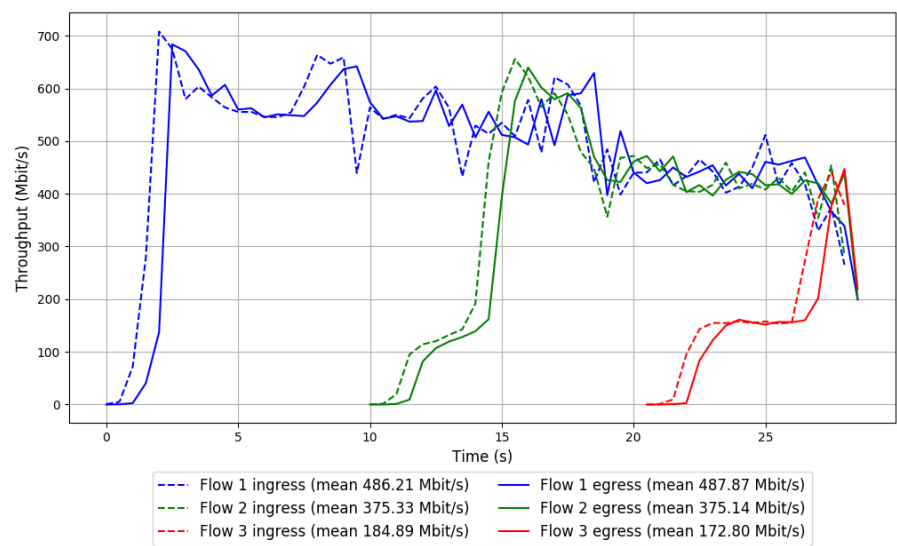


Run 1: Statistics of Indigo-MusesD

Start at: 2019-08-27 09:20:31  
End at: 2019-08-27 09:21:01  
Local clock offset: -0.556 ms  
Remote clock offset: -0.111 ms

# Below is generated by plot.py at 2019-08-27 13:49:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 772.81 Mbit/s  
95th percentile per-packet one-way delay: 186.535 ms  
Loss rate: 1.48%  
-- Flow 1:  
Average throughput: 487.87 Mbit/s  
95th percentile per-packet one-way delay: 189.905 ms  
Loss rate: 0.61%  
-- Flow 2:  
Average throughput: 375.14 Mbit/s  
95th percentile per-packet one-way delay: 168.609 ms  
Loss rate: 1.52%  
-- Flow 3:  
Average throughput: 172.80 Mbit/s  
95th percentile per-packet one-way delay: 141.860 ms  
Loss rate: 9.82%

Run 1: Report of Indigo-MusesD — Data Link

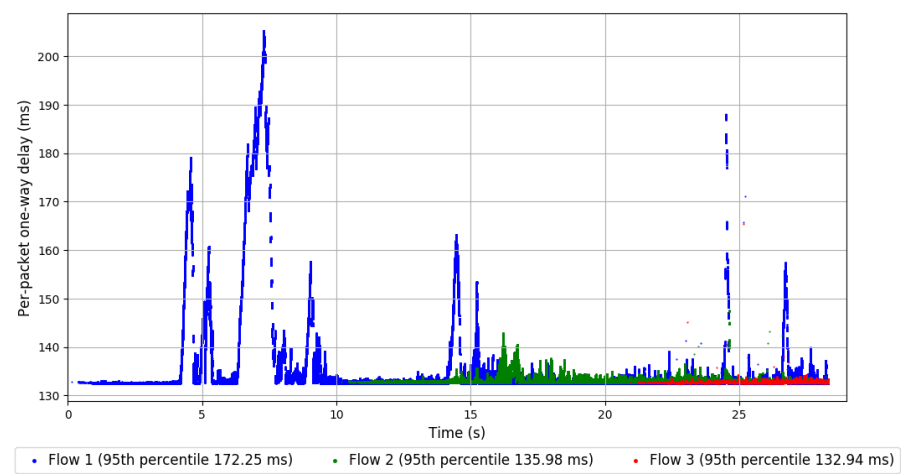
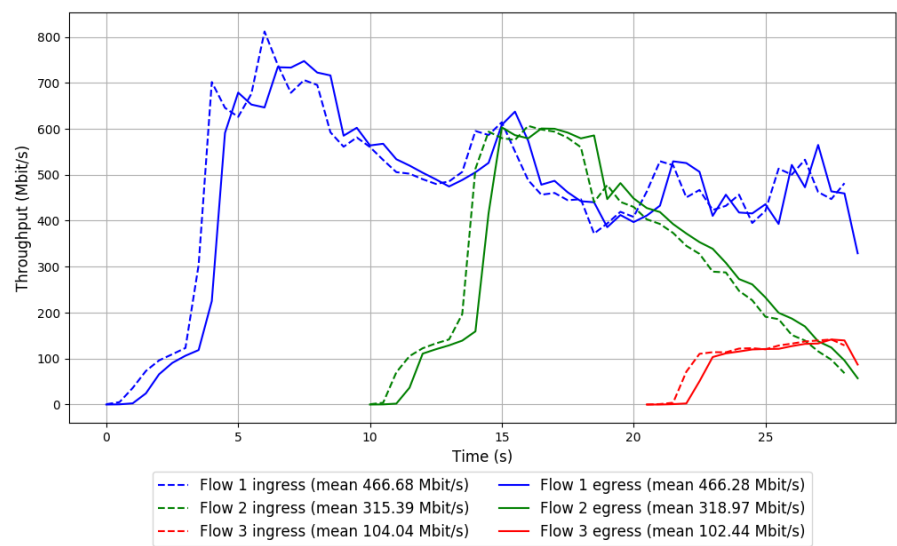


Run 2: Statistics of Indigo-MusesD

Start at: 2019-08-27 10:04:02  
End at: 2019-08-27 10:04:32  
Local clock offset: -0.006 ms  
Remote clock offset: -0.129 ms

# Below is generated by plot.py at 2019-08-27 13:49:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 698.17 Mbit/s  
95th percentile per-packet one-way delay: 160.374 ms  
Loss rate: 0.98%  
-- Flow 1:  
Average throughput: 466.28 Mbit/s  
95th percentile per-packet one-way delay: 172.248 ms  
Loss rate: 1.02%  
-- Flow 2:  
Average throughput: 318.97 Mbit/s  
95th percentile per-packet one-way delay: 135.983 ms  
Loss rate: 0.33%  
-- Flow 3:  
Average throughput: 102.44 Mbit/s  
95th percentile per-packet one-way delay: 132.940 ms  
Loss rate: 5.10%

Run 2: Report of Indigo-MusesD — Data Link

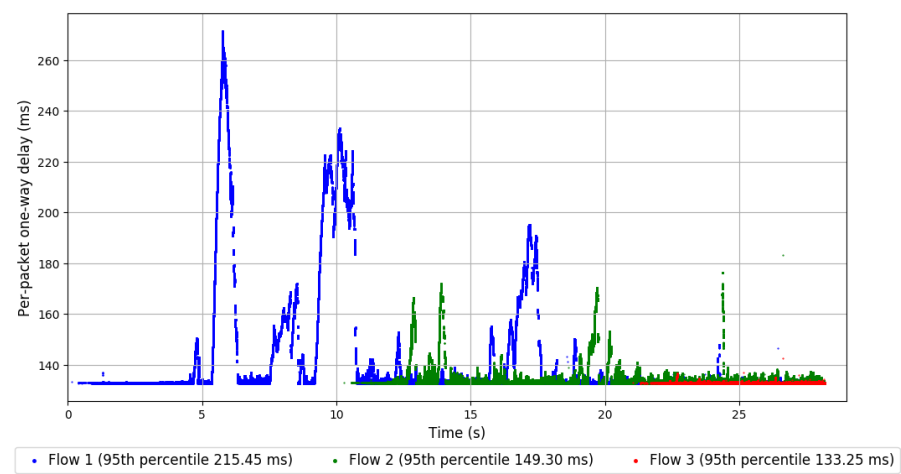
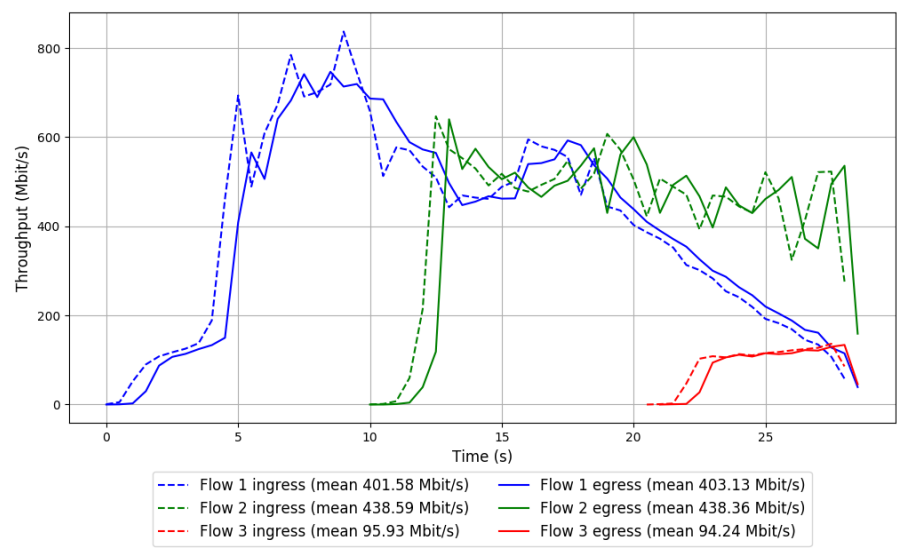


Run 3: Statistics of Indigo-MusesD

Start at: 2019-08-27 10:47:27  
End at: 2019-08-27 10:47:57  
Local clock offset: 0.058 ms  
Remote clock offset: -0.222 ms

# Below is generated by plot.py at 2019-08-27 13:53:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 706.70 Mbit/s  
95th percentile per-packet one-way delay: 202.399 ms  
Loss rate: 1.12%  
-- Flow 1:  
Average throughput: 403.13 Mbit/s  
95th percentile per-packet one-way delay: 215.453 ms  
Loss rate: 0.56%  
-- Flow 2:  
Average throughput: 438.36 Mbit/s  
95th percentile per-packet one-way delay: 149.302 ms  
Loss rate: 1.53%  
-- Flow 3:  
Average throughput: 94.24 Mbit/s  
95th percentile per-packet one-way delay: 133.251 ms  
Loss rate: 5.32%

Run 3: Report of Indigo-MusesD — Data Link

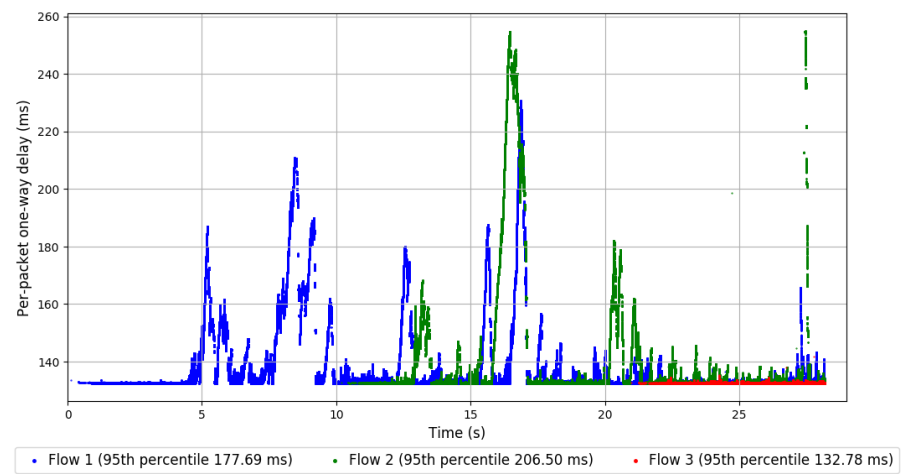
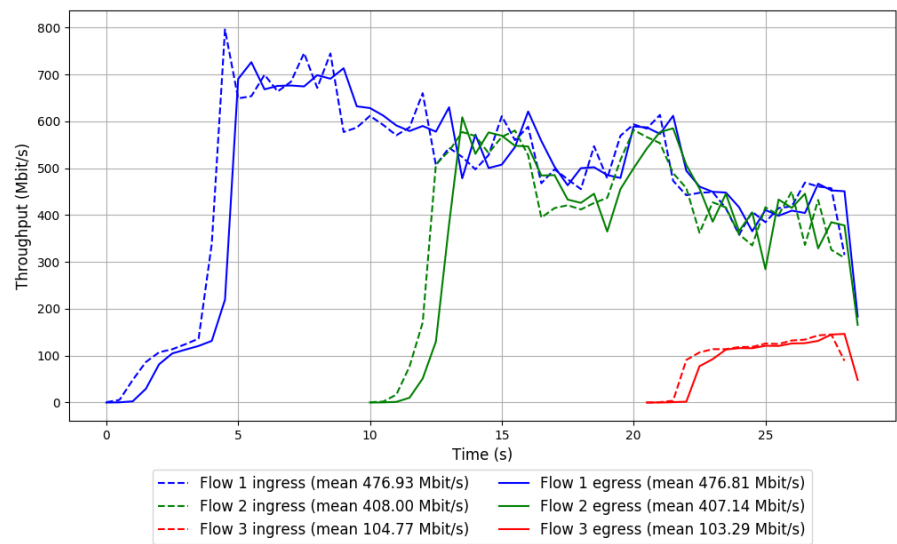


Run 4: Statistics of Indigo-MusesD

Start at: 2019-08-27 11:31:09  
End at: 2019-08-27 11:31:39  
Local clock offset: -0.61 ms  
Remote clock offset: -0.292 ms

# Below is generated by plot.py at 2019-08-27 13:54:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 764.45 Mbit/s  
95th percentile per-packet one-way delay: 181.370 ms  
Loss rate: 1.37%  
-- Flow 1:  
Average throughput: 476.81 Mbit/s  
95th percentile per-packet one-way delay: 177.694 ms  
Loss rate: 0.97%  
-- Flow 2:  
Average throughput: 407.14 Mbit/s  
95th percentile per-packet one-way delay: 206.501 ms  
Loss rate: 1.70%  
-- Flow 3:  
Average throughput: 103.29 Mbit/s  
95th percentile per-packet one-way delay: 132.778 ms  
Loss rate: 5.05%

Run 4: Report of Indigo-MusesD — Data Link



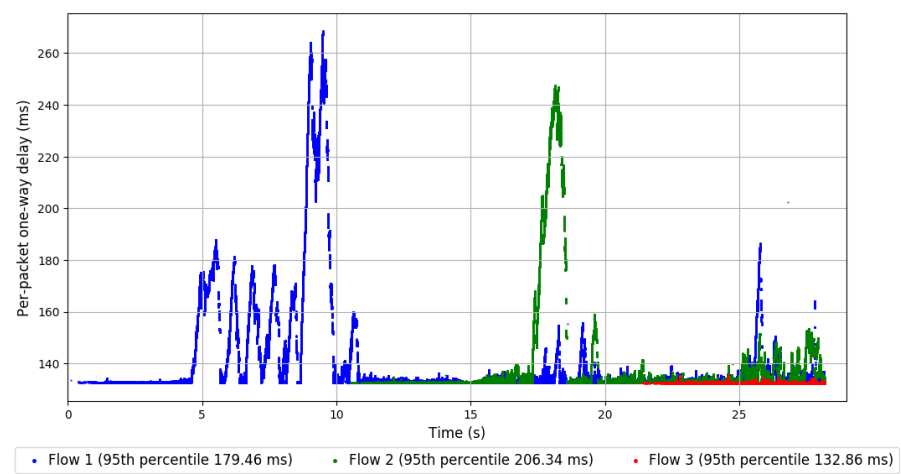
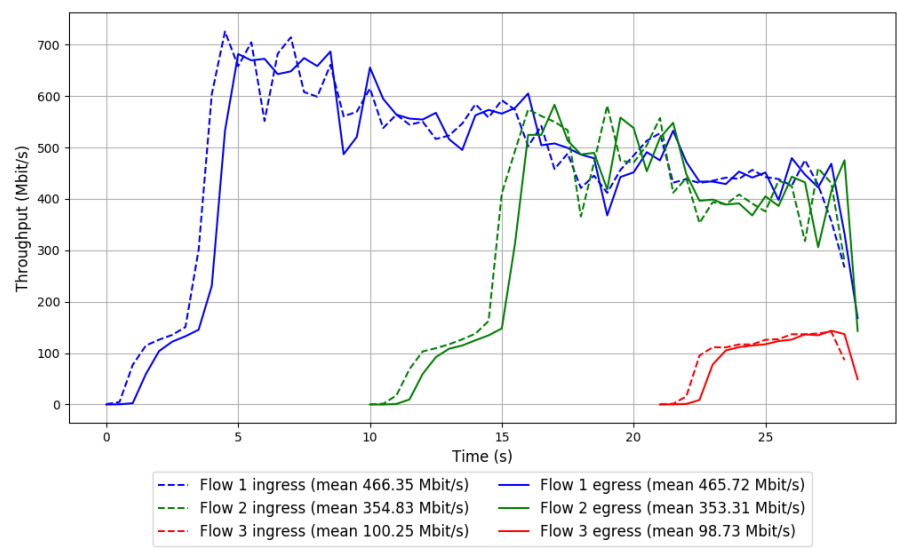


Run 5: Statistics of Indigo-MusesD

Start at: 2019-08-27 12:14:29  
End at: 2019-08-27 12:14:59  
Local clock offset: -0.278 ms  
Remote clock offset: -0.276 ms

# Below is generated by plot.py at 2019-08-27 13:54:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 716.12 Mbit/s  
95th percentile per-packet one-way delay: 183.848 ms  
Loss rate: 1.48%  
-- Flow 1:  
Average throughput: 465.72 Mbit/s  
95th percentile per-packet one-way delay: 179.460 ms  
Loss rate: 1.08%  
-- Flow 2:  
Average throughput: 353.31 Mbit/s  
95th percentile per-packet one-way delay: 206.340 ms  
Loss rate: 1.89%  
-- Flow 3:  
Average throughput: 98.73 Mbit/s  
95th percentile per-packet one-way delay: 132.859 ms  
Loss rate: 5.09%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2019-08-27 08:54:55

End at: 2019-08-27 08:55:25

Local clock offset: -0.329 ms

Remote clock offset: 0.244 ms

# Below is generated by plot.py at 2019-08-27 13:58:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 913.68 Mbit/s

95th percentile per-packet one-way delay: 195.425 ms

Loss rate: 1.69%

-- Flow 1:

Average throughput: 553.35 Mbit/s

95th percentile per-packet one-way delay: 191.824 ms

Loss rate: 1.44%

-- Flow 2:

Average throughput: 457.50 Mbit/s

95th percentile per-packet one-way delay: 212.151 ms

Loss rate: 1.32%

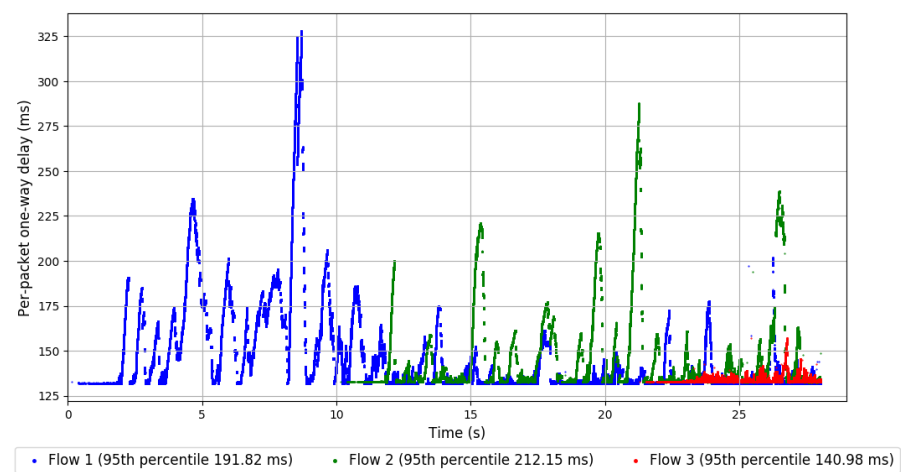
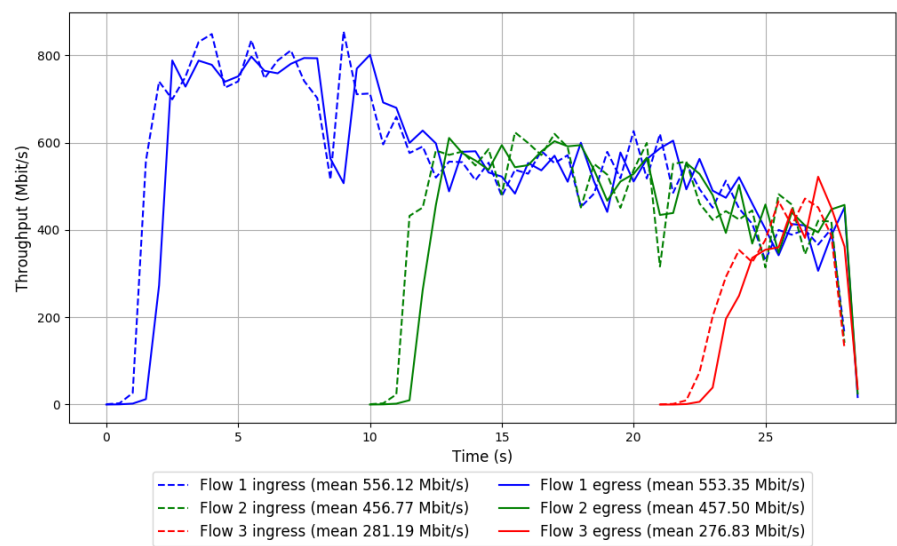
-- Flow 3:

Average throughput: 276.83 Mbit/s

95th percentile per-packet one-way delay: 140.984 ms

Loss rate: 5.28%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-08-27 09:38:41

End at: 2019-08-27 09:39:11

Local clock offset: -0.175 ms

Remote clock offset: 0.269 ms

# Below is generated by plot.py at 2019-08-27 13:59:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 893.51 Mbit/s

95th percentile per-packet one-way delay: 217.825 ms

Loss rate: 1.43%

-- Flow 1:

Average throughput: 572.69 Mbit/s

95th percentile per-packet one-way delay: 227.156 ms

Loss rate: 1.27%

-- Flow 2:

Average throughput: 458.15 Mbit/s

95th percentile per-packet one-way delay: 188.713 ms

Loss rate: 1.47%

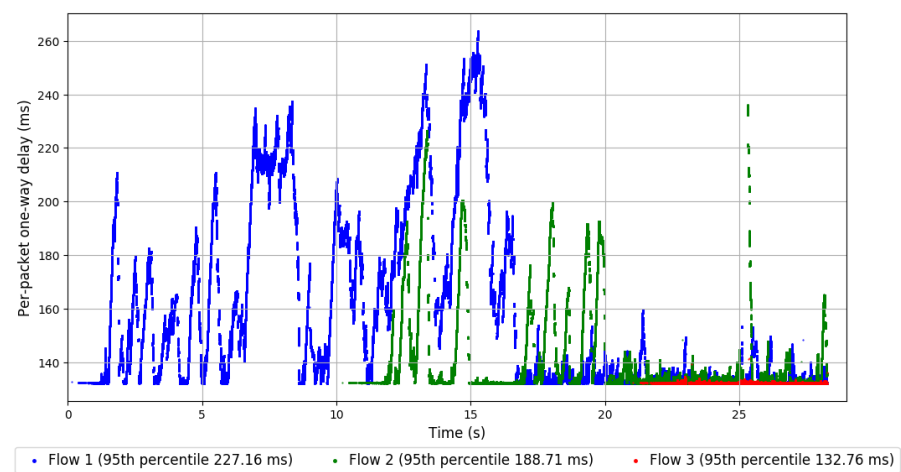
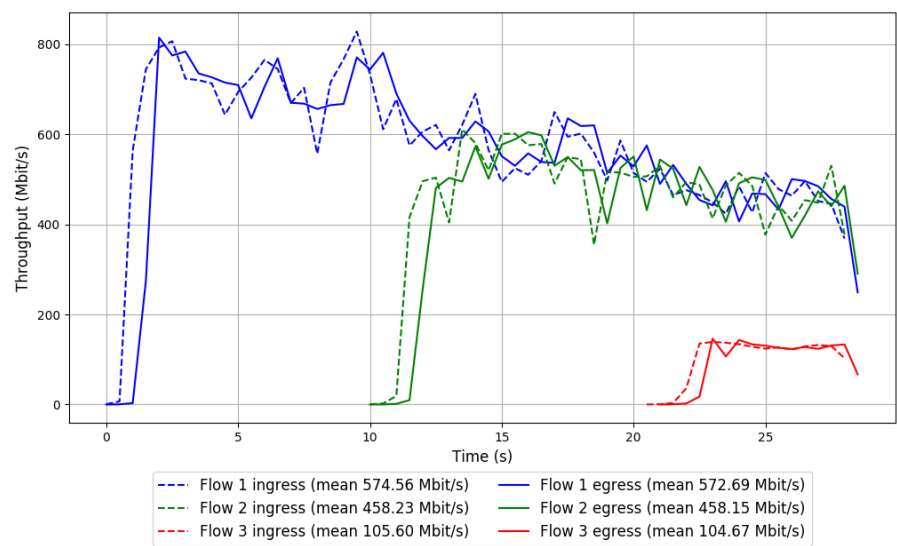
-- Flow 3:

Average throughput: 104.67 Mbit/s

95th percentile per-packet one-way delay: 132.758 ms

Loss rate: 4.34%

Run 2: Report of Indigo-MusesT — Data Link

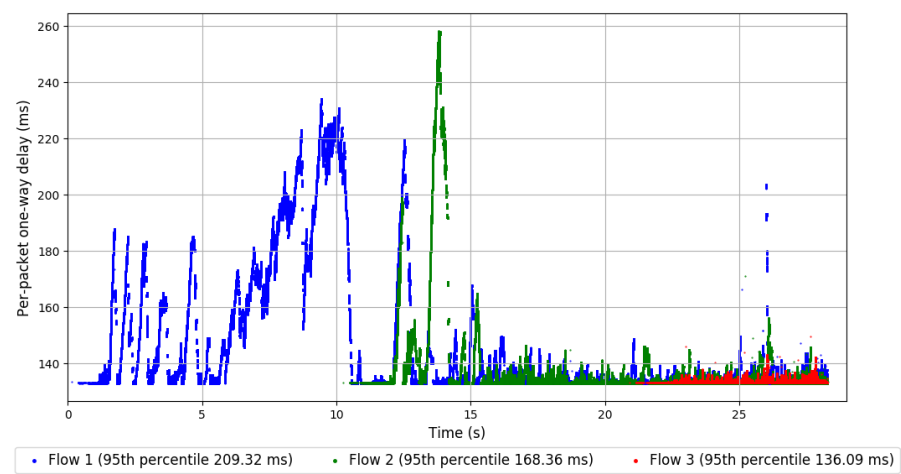
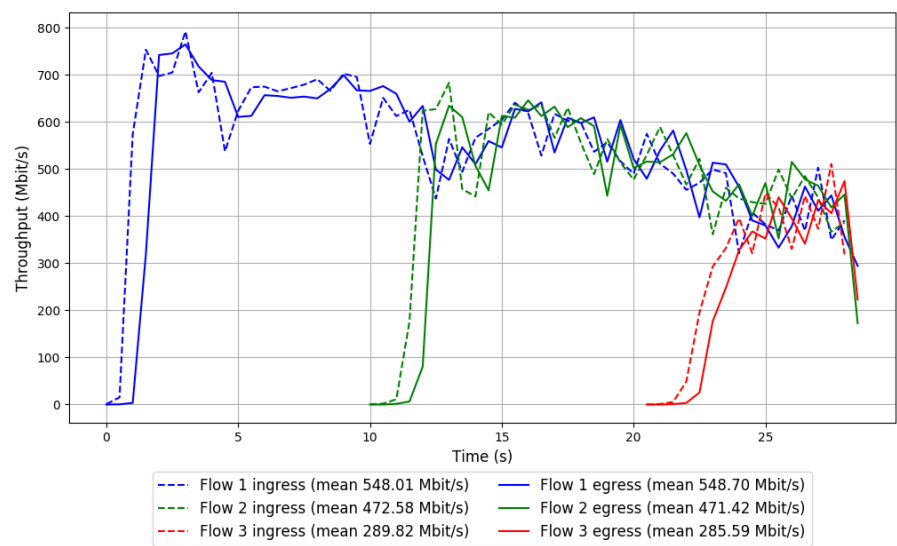


Run 3: Statistics of Indigo-MusesT

Start at: 2019-08-27 10:22:05  
End at: 2019-08-27 10:22:35  
Local clock offset: 0.219 ms  
Remote clock offset: -0.167 ms

# Below is generated by plot.py at 2019-08-27 14:02:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 925.67 Mbit/s  
95th percentile per-packet one-way delay: 200.147 ms  
Loss rate: 1.47%  
-- Flow 1:  
Average throughput: 548.70 Mbit/s  
95th percentile per-packet one-way delay: 209.322 ms  
Loss rate: 0.83%  
-- Flow 2:  
Average throughput: 471.42 Mbit/s  
95th percentile per-packet one-way delay: 168.364 ms  
Loss rate: 1.71%  
-- Flow 3:  
Average throughput: 285.59 Mbit/s  
95th percentile per-packet one-way delay: 136.088 ms  
Loss rate: 4.97%

Run 3: Report of Indigo-MusesT — Data Link



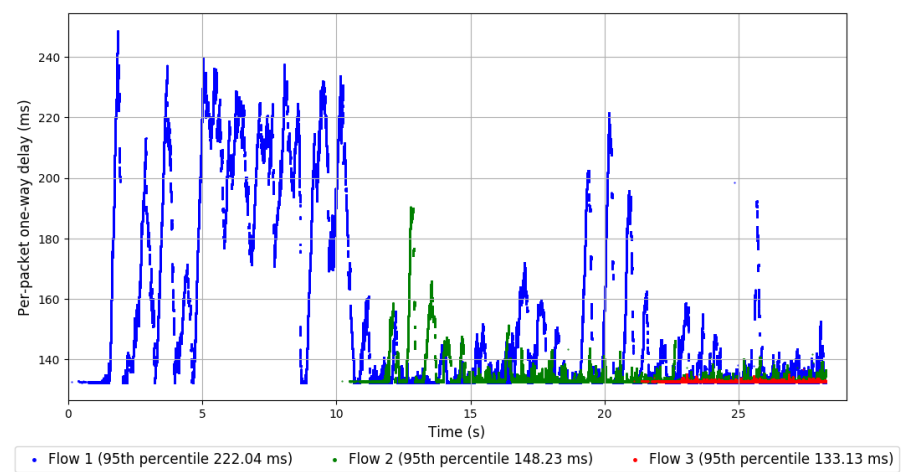
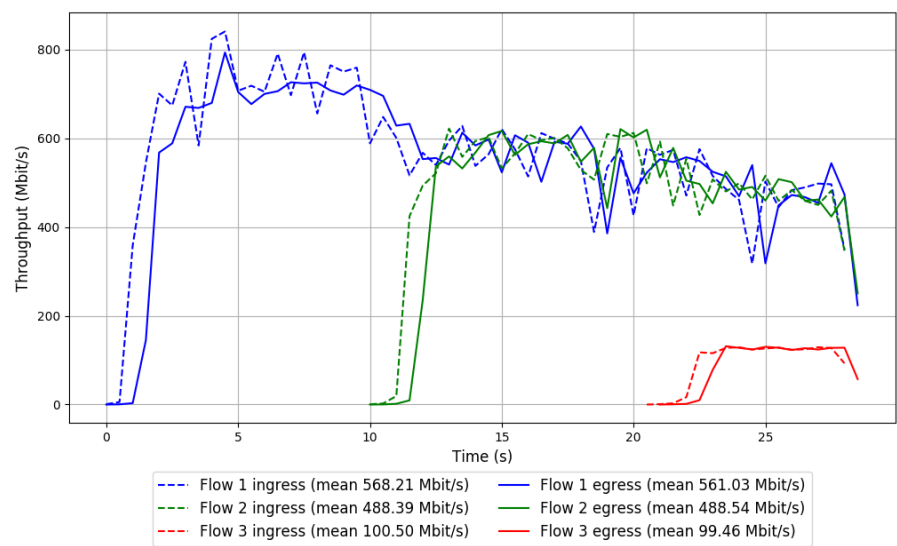


Run 4: Statistics of Indigo-MusesT

Start at: 2019-08-27 11:05:46  
End at: 2019-08-27 11:06:16  
Local clock offset: -0.231 ms  
Remote clock offset: -0.344 ms

# Below is generated by plot.py at 2019-08-27 14:02:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 899.40 Mbit/s  
95th percentile per-packet one-way delay: 217.246 ms  
Loss rate: 2.00%  
-- Flow 1:  
Average throughput: 561.03 Mbit/s  
95th percentile per-packet one-way delay: 222.036 ms  
Loss rate: 2.19%  
-- Flow 2:  
Average throughput: 488.54 Mbit/s  
95th percentile per-packet one-way delay: 148.234 ms  
Loss rate: 1.42%  
-- Flow 3:  
Average throughput: 99.46 Mbit/s  
95th percentile per-packet one-way delay: 133.128 ms  
Loss rate: 4.62%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-08-27 11:49:16

End at: 2019-08-27 11:49:46

Local clock offset: 0.163 ms

Remote clock offset: -0.26 ms

# Below is generated by plot.py at 2019-08-27 14:02:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 850.67 Mbit/s

95th percentile per-packet one-way delay: 220.627 ms

Loss rate: 1.90%

-- Flow 1:

Average throughput: 532.48 Mbit/s

95th percentile per-packet one-way delay: 225.839 ms

Loss rate: 1.98%

-- Flow 2:

Average throughput: 456.20 Mbit/s

95th percentile per-packet one-way delay: 181.091 ms

Loss rate: 1.49%

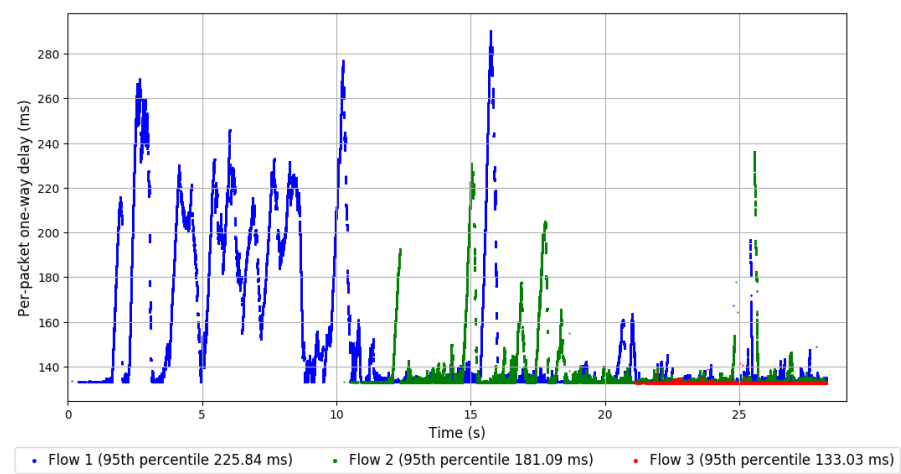
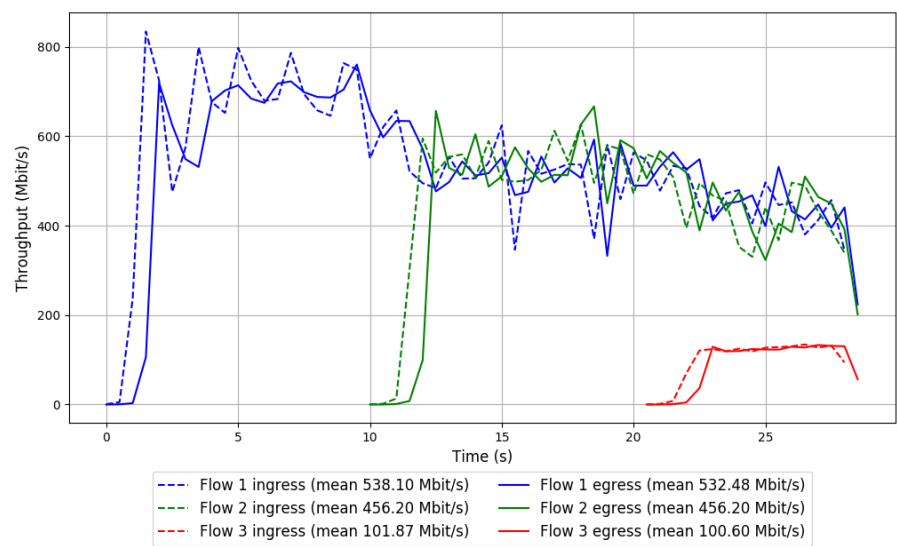
-- Flow 3:

Average throughput: 100.60 Mbit/s

95th percentile per-packet one-way delay: 133.026 ms

Loss rate: 4.62%

Run 5: Report of Indigo-MusesT — Data Link

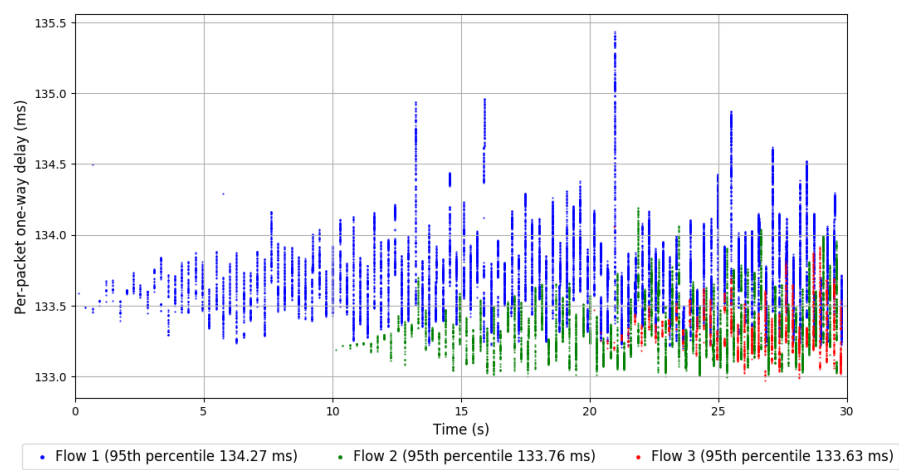
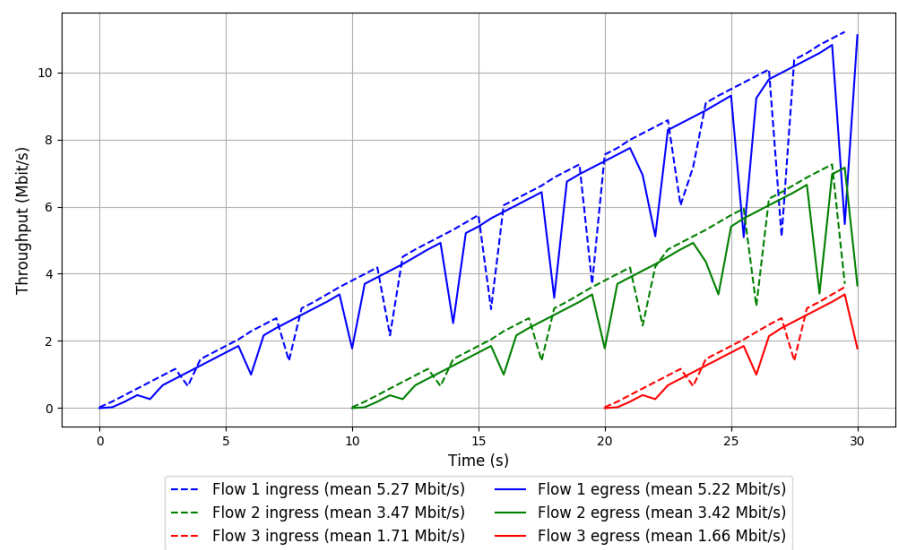


Run 1: Statistics of LEDBAT

Start at: 2019-08-27 09:08:58  
End at: 2019-08-27 09:09:28  
Local clock offset: -0.048 ms  
Remote clock offset: -0.128 ms

# Below is generated by plot.py at 2019-08-27 14:02:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.01 Mbit/s  
95th percentile per-packet one-way delay: 134.156 ms  
Loss rate: 2.30%  
-- Flow 1:  
Average throughput: 5.22 Mbit/s  
95th percentile per-packet one-way delay: 134.274 ms  
Loss rate: 1.78%  
-- Flow 2:  
Average throughput: 3.42 Mbit/s  
95th percentile per-packet one-way delay: 133.757 ms  
Loss rate: 2.70%  
-- Flow 3:  
Average throughput: 1.66 Mbit/s  
95th percentile per-packet one-way delay: 133.634 ms  
Loss rate: 5.41%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-08-27 09:52:10

End at: 2019-08-27 09:52:40

Local clock offset: 0.548 ms

Remote clock offset: -0.11 ms

# Below is generated by plot.py at 2019-08-27 14:02:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 8.02 Mbit/s

95th percentile per-packet one-way delay: 134.082 ms

Loss rate: 2.30%

-- Flow 1:

Average throughput: 5.23 Mbit/s

95th percentile per-packet one-way delay: 134.064 ms

Loss rate: 1.78%

-- Flow 2:

Average throughput: 3.43 Mbit/s

95th percentile per-packet one-way delay: 134.137 ms

Loss rate: 2.70%

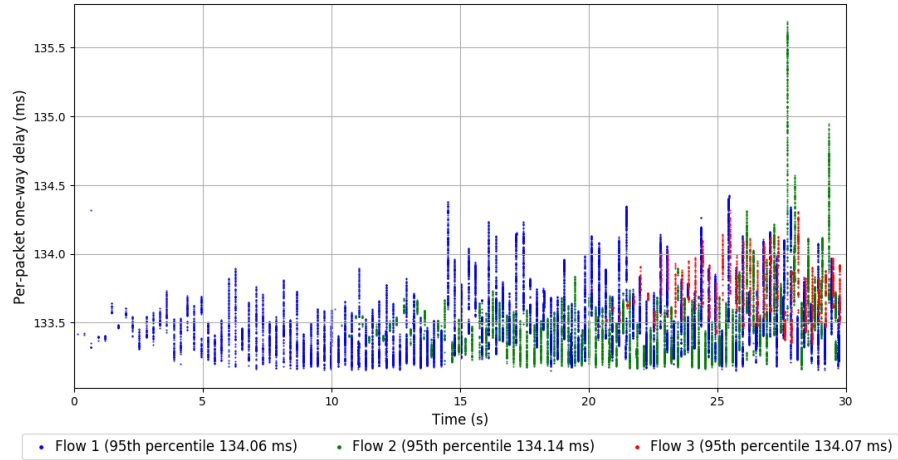
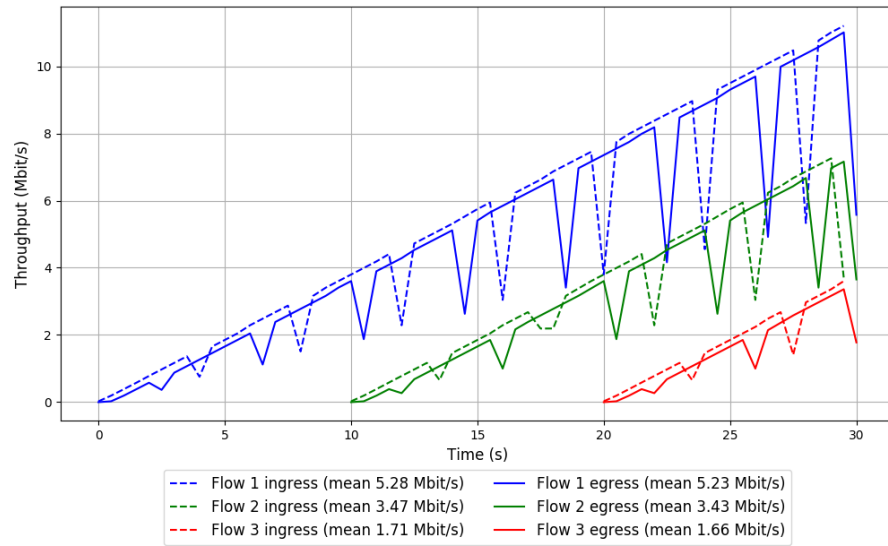
-- Flow 3:

Average throughput: 1.66 Mbit/s

95th percentile per-packet one-way delay: 134.073 ms

Loss rate: 5.42%

## Run 2: Report of LEDBAT — Data Link



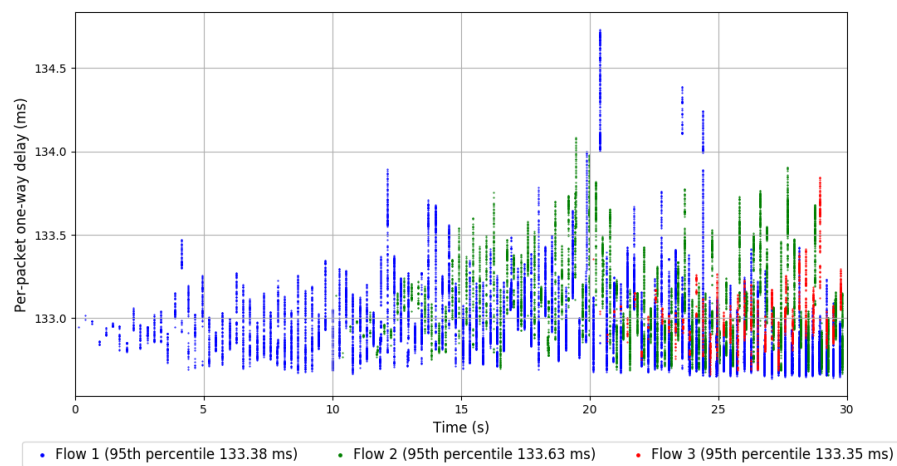
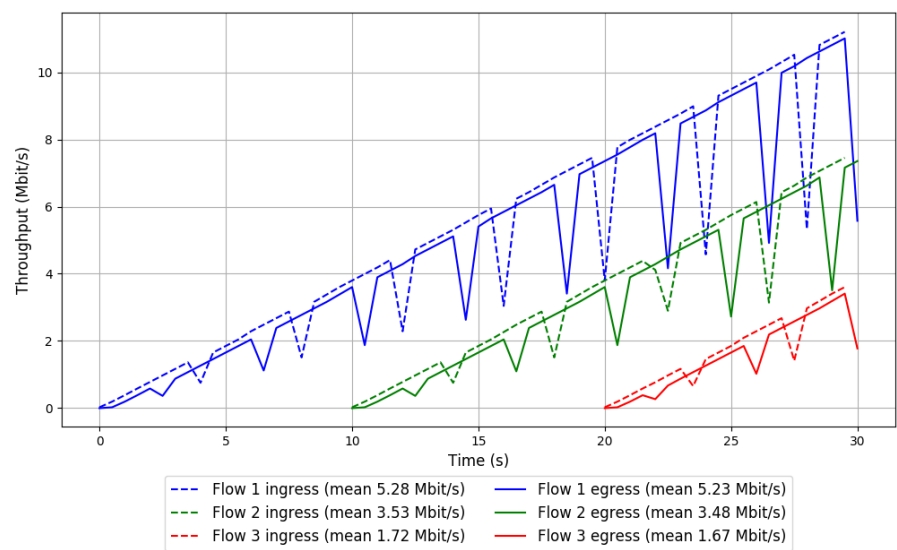


Run 3: Statistics of LEDBAT

Start at: 2019-08-27 10:35:45  
End at: 2019-08-27 10:36:15  
Local clock offset: 0.131 ms  
Remote clock offset: -0.177 ms

# Below is generated by plot.py at 2019-08-27 14:02:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.07 Mbit/s  
95th percentile per-packet one-way delay: 133.534 ms  
Loss rate: 2.29%  
-- Flow 1:  
Average throughput: 5.23 Mbit/s  
95th percentile per-packet one-way delay: 133.384 ms  
Loss rate: 1.78%  
-- Flow 2:  
Average throughput: 3.48 Mbit/s  
95th percentile per-packet one-way delay: 133.632 ms  
Loss rate: 2.67%  
-- Flow 3:  
Average throughput: 1.67 Mbit/s  
95th percentile per-packet one-way delay: 133.346 ms  
Loss rate: 5.39%

Run 3: Report of LEDBAT — Data Link

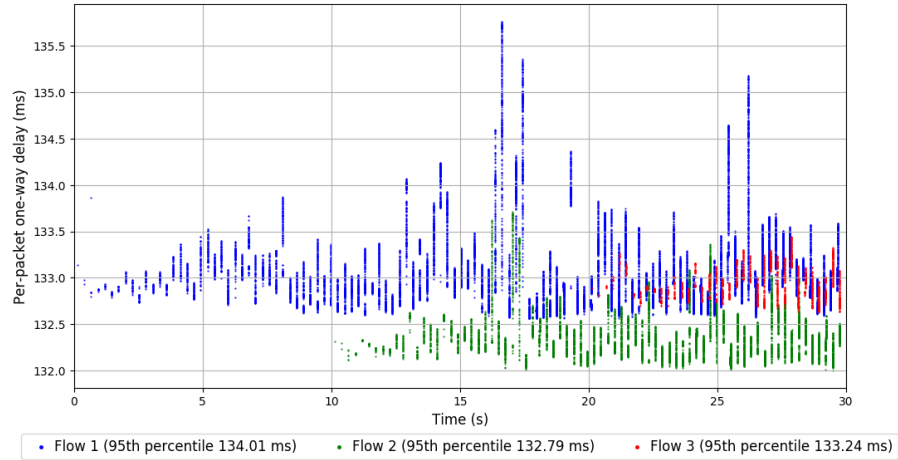
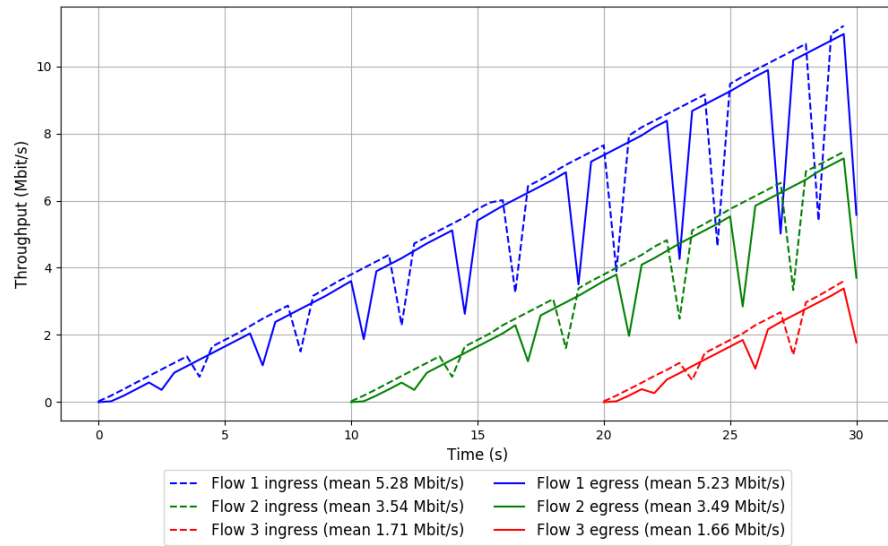


Run 4: Statistics of LEDBAT

Start at: 2019-08-27 11:19:27  
End at: 2019-08-27 11:19:57  
Local clock offset: -0.465 ms  
Remote clock offset: -0.332 ms

# Below is generated by plot.py at 2019-08-27 14:02:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.07 Mbit/s  
95th percentile per-packet one-way delay: 133.775 ms  
Loss rate: 2.29%  
-- Flow 1:  
Average throughput: 5.23 Mbit/s  
95th percentile per-packet one-way delay: 134.014 ms  
Loss rate: 1.79%  
-- Flow 2:  
Average throughput: 3.49 Mbit/s  
95th percentile per-packet one-way delay: 132.790 ms  
Loss rate: 2.67%  
-- Flow 3:  
Average throughput: 1.66 Mbit/s  
95th percentile per-packet one-way delay: 133.237 ms  
Loss rate: 5.41%

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

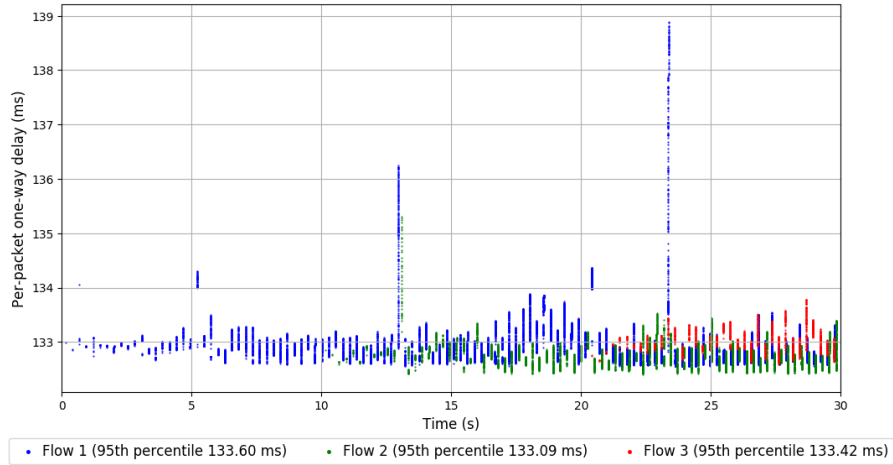
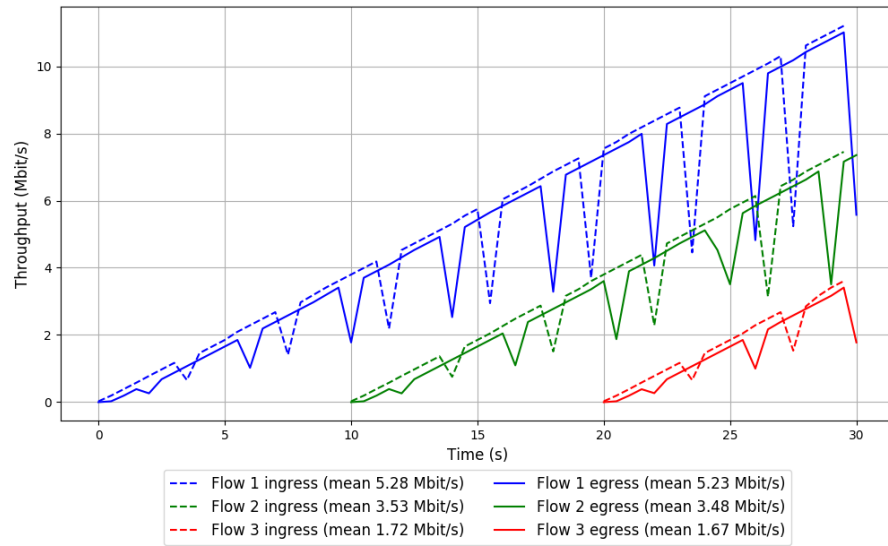


Run 5: Statistics of LEDBAT

Start at: 2019-08-27 12:02:50  
End at: 2019-08-27 12:03:20  
Local clock offset: -0.289 ms  
Remote clock offset: -0.3 ms

# Below is generated by plot.py at 2019-08-27 14:02:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.06 Mbit/s  
95th percentile per-packet one-way delay: 133.427 ms  
Loss rate: 2.29%  
-- Flow 1:  
Average throughput: 5.23 Mbit/s  
95th percentile per-packet one-way delay: 133.596 ms  
Loss rate: 1.78%  
-- Flow 2:  
Average throughput: 3.48 Mbit/s  
95th percentile per-packet one-way delay: 133.092 ms  
Loss rate: 2.67%  
-- Flow 3:  
Average throughput: 1.67 Mbit/s  
95th percentile per-packet one-way delay: 133.416 ms  
Loss rate: 5.40%

# Run 5: Report of LEDBAT — Data Link

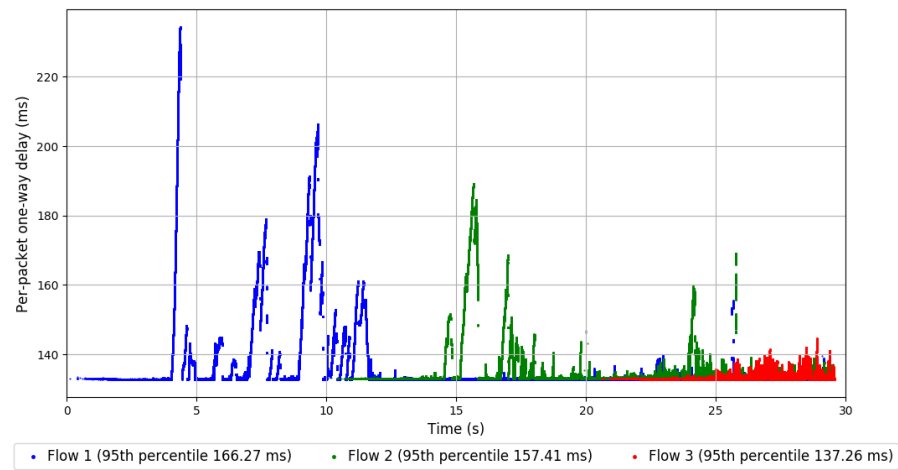
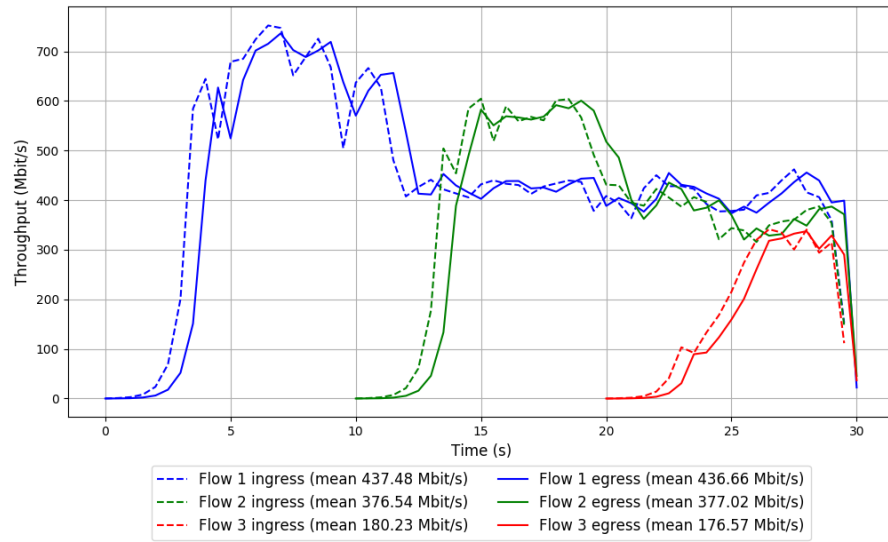


Run 1: Statistics of Muses\\_DecisionTree

Start at: 2019-08-27 09:10:18  
End at: 2019-08-27 09:10:48  
Local clock offset: -0.188 ms  
Remote clock offset: -0.107 ms

# Below is generated by plot.py at 2019-08-27 14:05:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 739.88 Mbit/s  
95th percentile per-packet one-way delay: 160.947 ms  
Loss rate: 1.42%  
-- Flow 1:  
Average throughput: 436.66 Mbit/s  
95th percentile per-packet one-way delay: 166.268 ms  
Loss rate: 1.07%  
-- Flow 2:  
Average throughput: 377.02 Mbit/s  
95th percentile per-packet one-way delay: 157.413 ms  
Loss rate: 1.26%  
-- Flow 3:  
Average throughput: 176.57 Mbit/s  
95th percentile per-packet one-way delay: 137.265 ms  
Loss rate: 4.80%

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



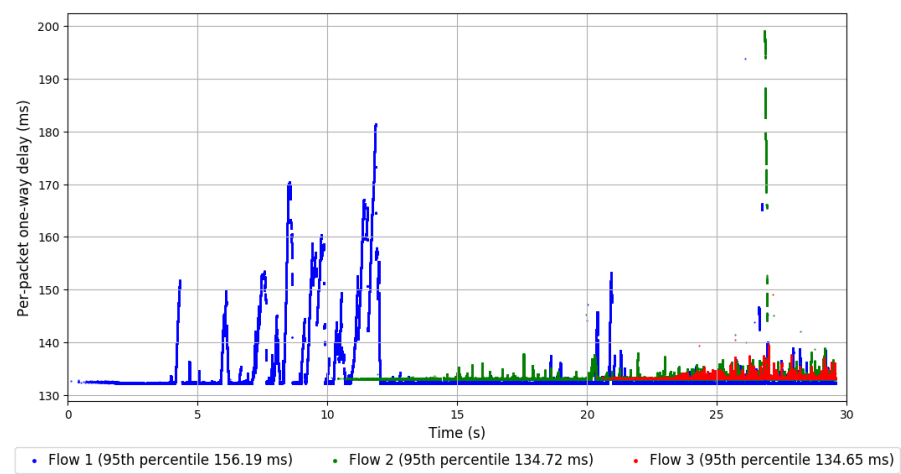
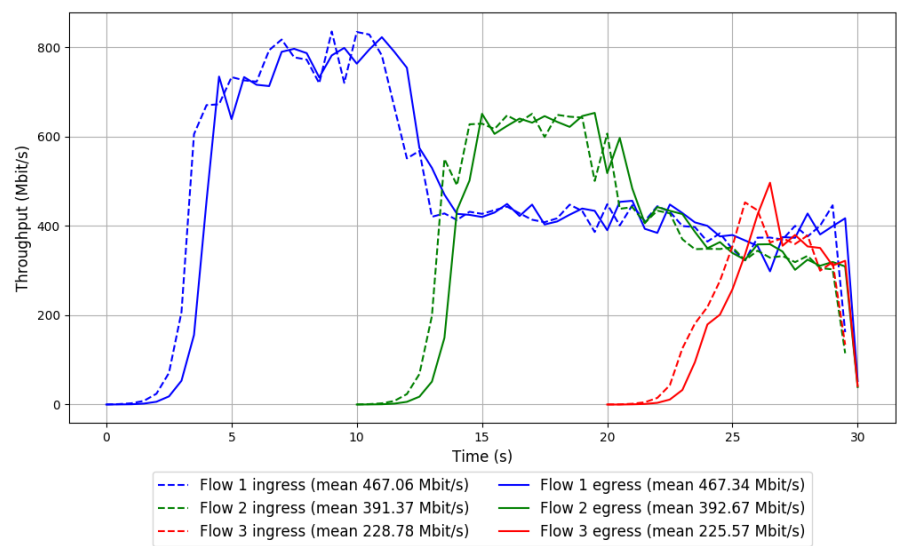


Run 2: Statistics of Muses\\_DecisionTree

Start at: 2019-08-27 09:53:29  
End at: 2019-08-27 09:53:59  
Local clock offset: 0.338 ms  
Remote clock offset: -0.166 ms

# Below is generated by plot.py at 2019-08-27 14:06:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 796.98 Mbit/s  
95th percentile per-packet one-way delay: 151.155 ms  
Loss rate: 1.20%  
-- Flow 1:  
Average throughput: 467.34 Mbit/s  
95th percentile per-packet one-way delay: 156.186 ms  
Loss rate: 0.84%  
-- Flow 2:  
Average throughput: 392.67 Mbit/s  
95th percentile per-packet one-way delay: 134.723 ms  
Loss rate: 1.03%  
-- Flow 3:  
Average throughput: 225.57 Mbit/s  
95th percentile per-packet one-way delay: 134.648 ms  
Loss rate: 4.18%

Run 2: Report of Muses\_DecisionTree — Data Link

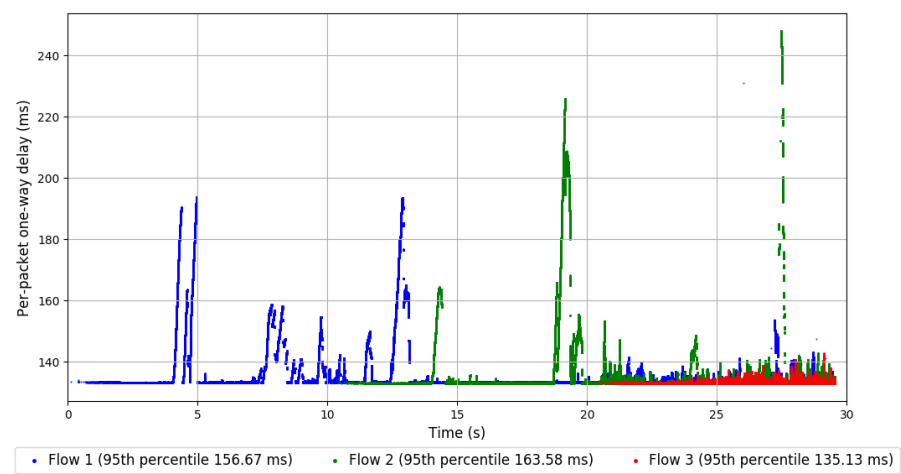
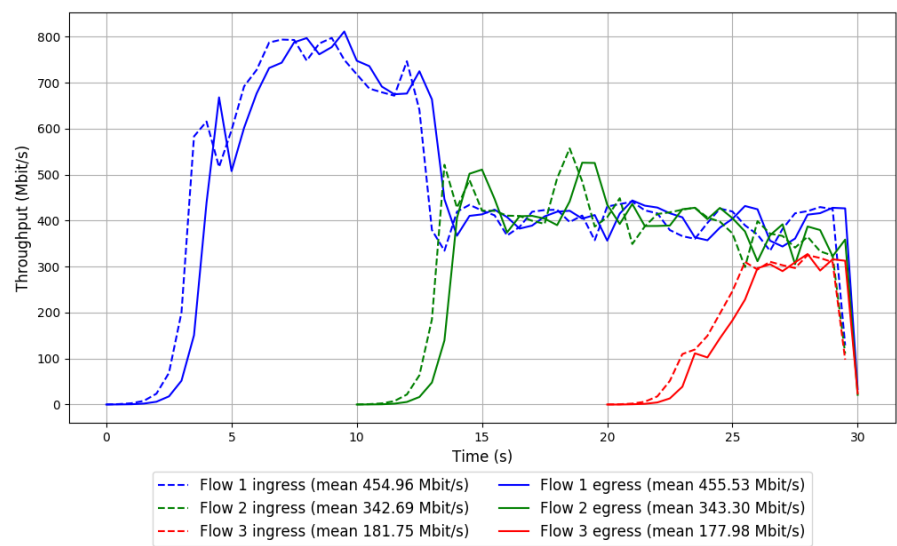


Run 3: Statistics of Muses\\_DecisionTree

Start at: 2019-08-27 10:37:05  
End at: 2019-08-27 10:37:35  
Local clock offset: 0.28 ms  
Remote clock offset: -0.212 ms

# Below is generated by plot.py at 2019-08-27 14:06:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 737.64 Mbit/s  
95th percentile per-packet one-way delay: 157.205 ms  
Loss rate: 1.22%  
-- Flow 1:  
Average throughput: 455.53 Mbit/s  
95th percentile per-packet one-way delay: 156.671 ms  
Loss rate: 0.78%  
-- Flow 2:  
Average throughput: 343.30 Mbit/s  
95th percentile per-packet one-way delay: 163.581 ms  
Loss rate: 1.19%  
-- Flow 3:  
Average throughput: 177.98 Mbit/s  
95th percentile per-packet one-way delay: 135.131 ms  
Loss rate: 4.79%

Run 3: Report of Muses\_DecisionTree — Data Link

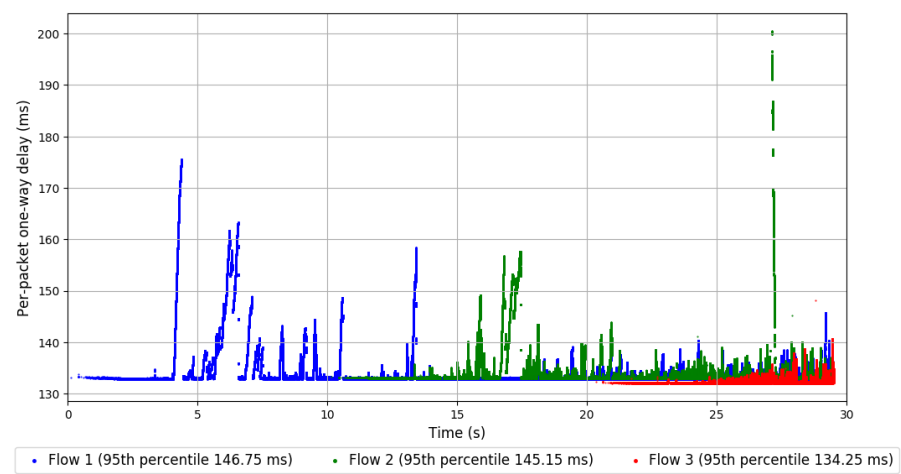
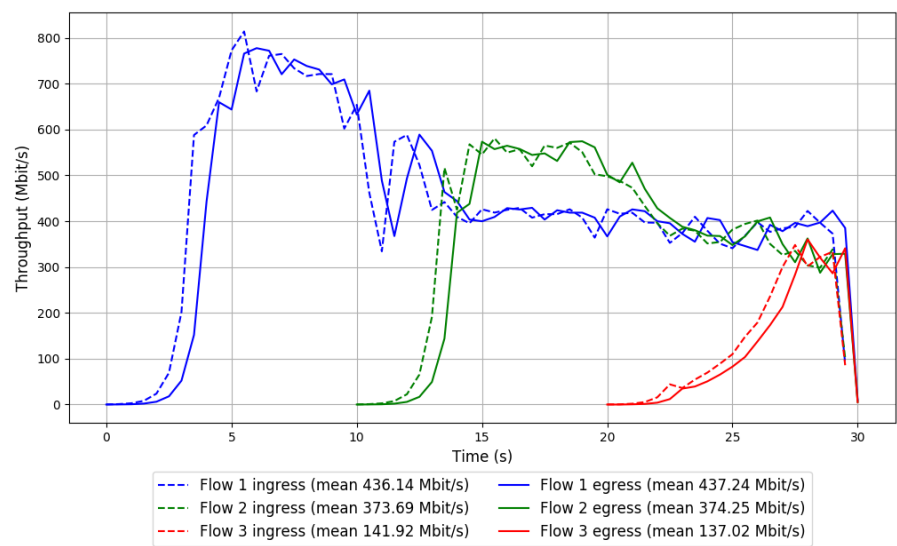


Run 4: Statistics of Muses\\_DecisionTree

Start at: 2019-08-27 11:20:46  
End at: 2019-08-27 11:21:16  
Local clock offset: -0.263 ms  
Remote clock offset: -0.435 ms

# Below is generated by plot.py at 2019-08-27 14:08:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 726.40 Mbit/s  
95th percentile per-packet one-way delay: 145.778 ms  
Loss rate: 1.19%  
-- Flow 1:  
Average throughput: 437.24 Mbit/s  
95th percentile per-packet one-way delay: 146.745 ms  
Loss rate: 0.65%  
-- Flow 2:  
Average throughput: 374.25 Mbit/s  
95th percentile per-packet one-way delay: 145.145 ms  
Loss rate: 1.22%  
-- Flow 3:  
Average throughput: 137.02 Mbit/s  
95th percentile per-packet one-way delay: 134.249 ms  
Loss rate: 6.17%

Run 4: Report of Muses\_DecisionTree — Data Link

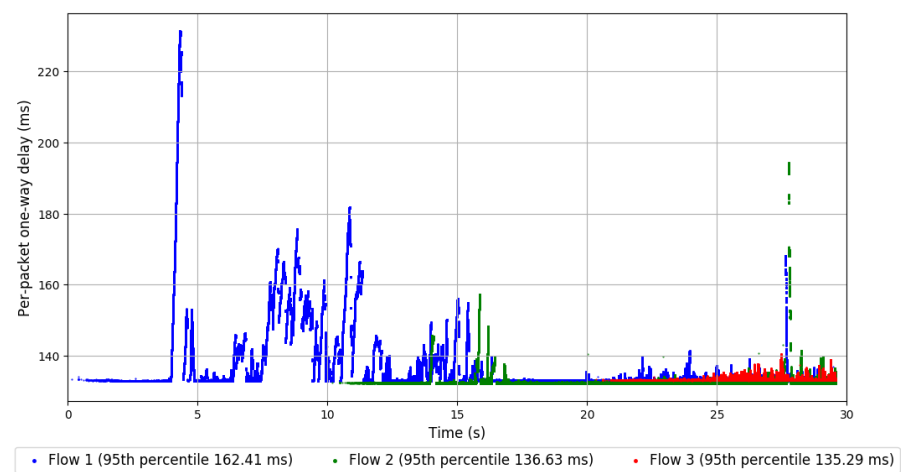
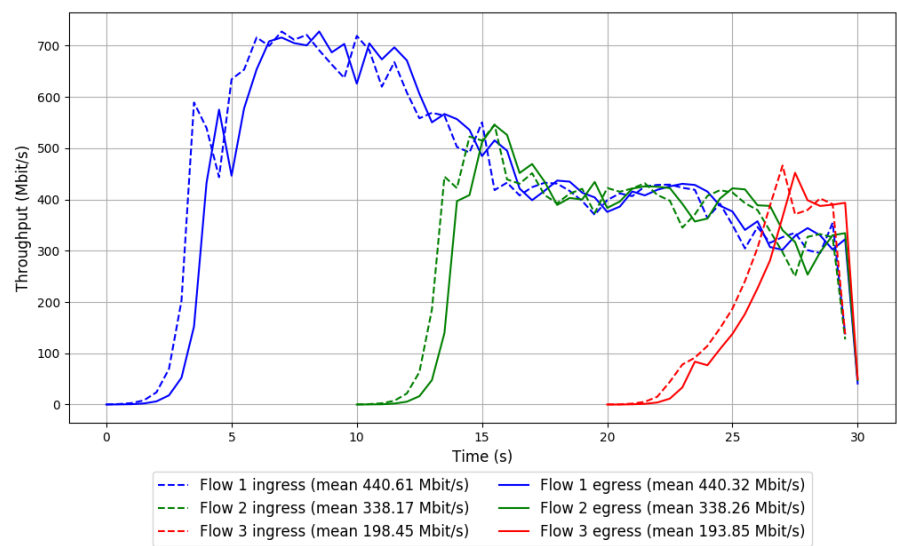


Run 5: Statistics of Muses\\_DecisionTree

Start at: 2019-08-27 12:04:09  
End at: 2019-08-27 12:04:39  
Local clock offset: -0.067 ms  
Remote clock offset: -0.385 ms

# Below is generated by plot.py at 2019-08-27 14:10:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 723.76 Mbit/s  
95th percentile per-packet one-way delay: 157.426 ms  
Loss rate: 1.43%  
-- Flow 1:  
Average throughput: 440.32 Mbit/s  
95th percentile per-packet one-way delay: 162.411 ms  
Loss rate: 0.96%  
-- Flow 2:  
Average throughput: 338.26 Mbit/s  
95th percentile per-packet one-way delay: 136.628 ms  
Loss rate: 1.33%  
-- Flow 3:  
Average throughput: 193.85 Mbit/s  
95th percentile per-packet one-way delay: 135.293 ms  
Loss rate: 5.05%

Run 5: Report of Muses\_DecisionTree — Data Link



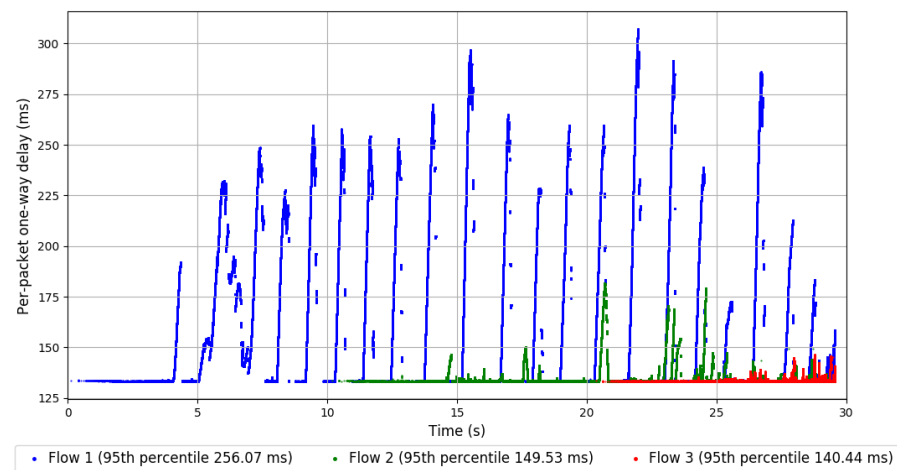
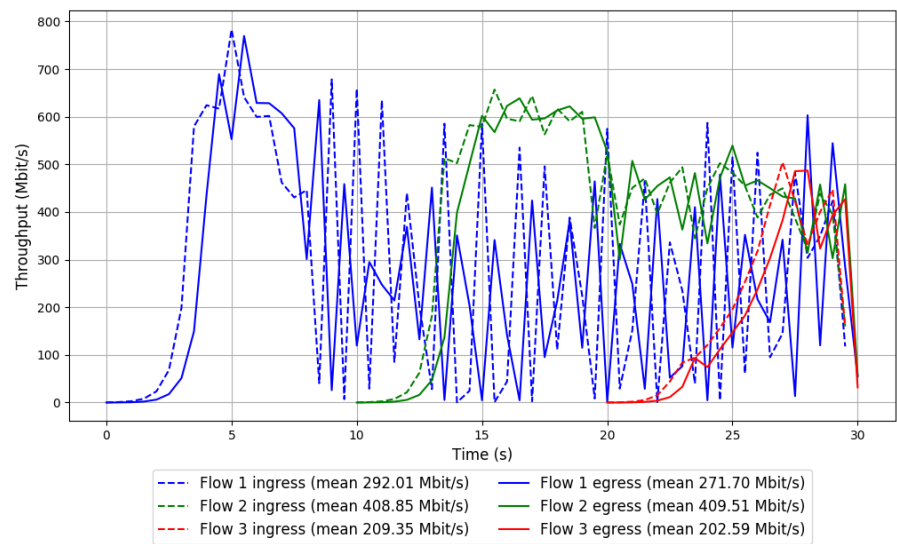


Run 1: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-08-27 09:13:34  
End at: 2019-08-27 09:14:04  
Local clock offset: 0.16 ms  
Remote clock offset: -0.132 ms

# Below is generated by plot.py at 2019-08-27 14:10:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 604.63 Mbit/s  
95th percentile per-packet one-way delay: 241.138 ms  
Loss rate: 4.80%  
-- Flow 1:  
Average throughput: 271.70 Mbit/s  
95th percentile per-packet one-way delay: 256.073 ms  
Loss rate: 7.79%  
-- Flow 2:  
Average throughput: 409.51 Mbit/s  
95th percentile per-packet one-way delay: 149.532 ms  
Loss rate: 1.28%  
-- Flow 3:  
Average throughput: 202.59 Mbit/s  
95th percentile per-packet one-way delay: 140.440 ms  
Loss rate: 5.95%

Run 1: Report of Muses\_DecisionTreeH0 — Data Link

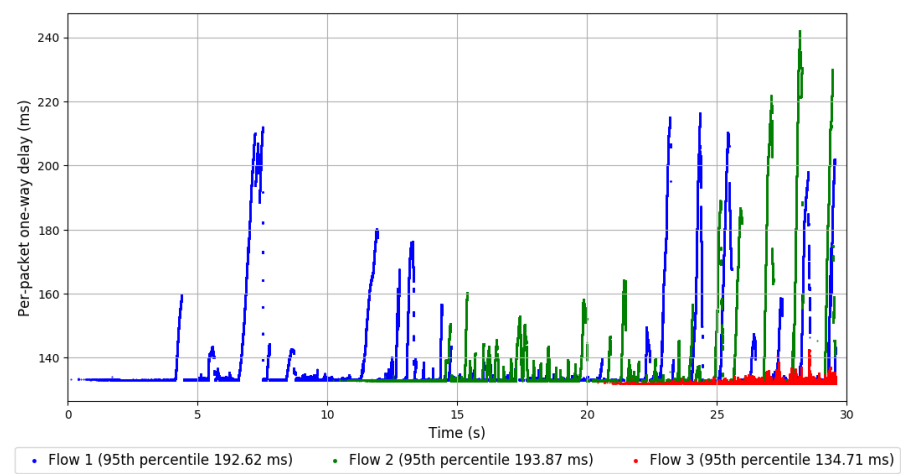
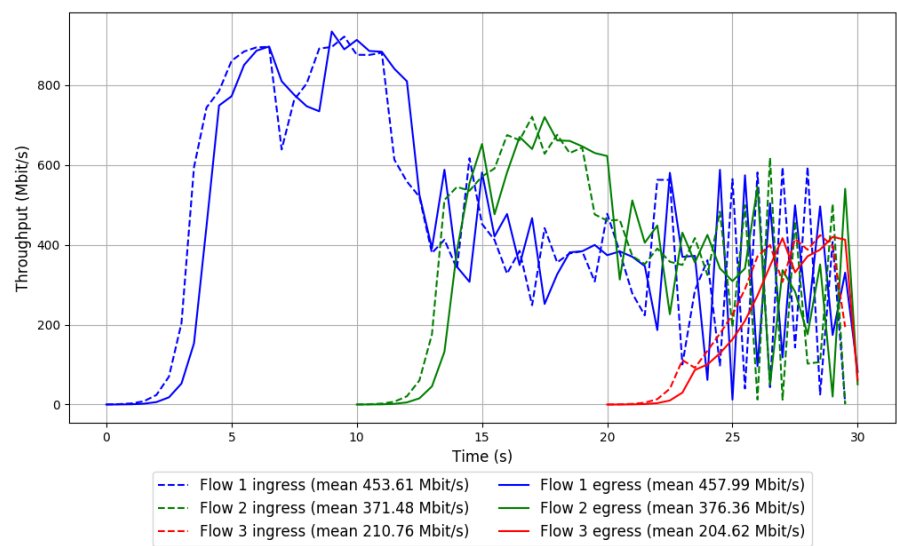


Run 2: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-08-27 09:56:47  
End at: 2019-08-27 09:57:17  
Local clock offset: 0.285 ms  
Remote clock offset: -0.098 ms

# Below is generated by plot.py at 2019-08-27 14:13:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 768.75 Mbit/s  
95th percentile per-packet one-way delay: 189.513 ms  
Loss rate: 0.62%  
-- Flow 1:  
Average throughput: 457.99 Mbit/s  
95th percentile per-packet one-way delay: 192.623 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 376.36 Mbit/s  
95th percentile per-packet one-way delay: 193.865 ms  
Loss rate: 0.33%  
-- Flow 3:  
Average throughput: 204.62 Mbit/s  
95th percentile per-packet one-way delay: 134.713 ms  
Loss rate: 5.80%

Run 2: Report of Muses\_DecisionTreeH0 — Data Link

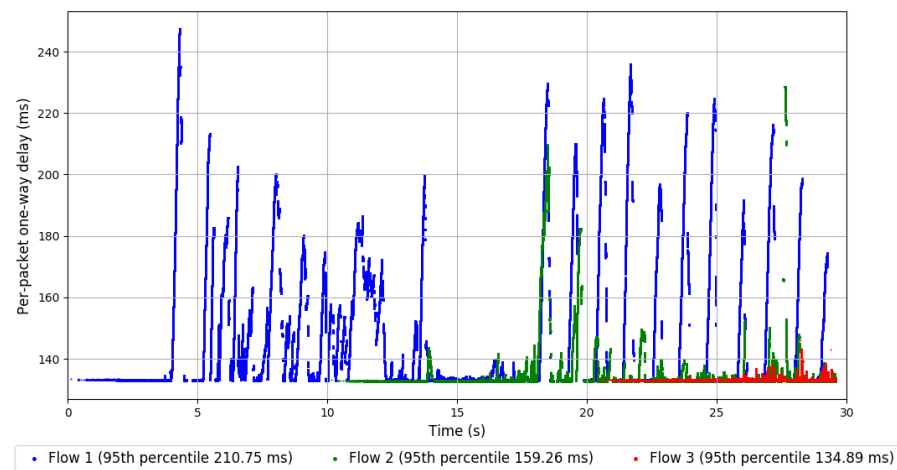
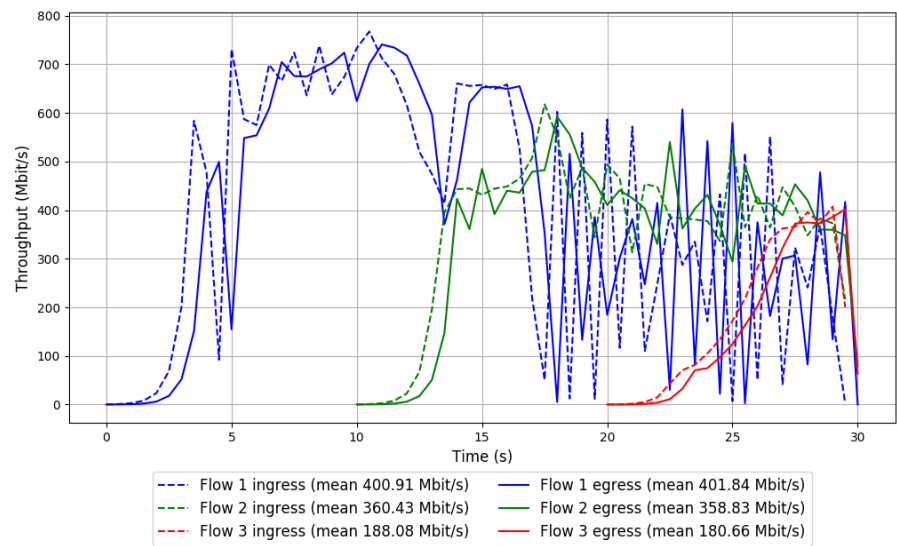


Run 3: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-08-27 10:40:21  
End at: 2019-08-27 10:40:51  
Local clock offset: 0.249 ms  
Remote clock offset: -0.173 ms

# Below is generated by plot.py at 2019-08-27 14:13:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 695.19 Mbit/s  
95th percentile per-packet one-way delay: 198.848 ms  
Loss rate: 1.57%  
-- Flow 1:  
Average throughput: 401.84 Mbit/s  
95th percentile per-packet one-way delay: 210.748 ms  
Loss rate: 0.67%  
-- Flow 2:  
Average throughput: 358.83 Mbit/s  
95th percentile per-packet one-way delay: 159.264 ms  
Loss rate: 1.79%  
-- Flow 3:  
Average throughput: 180.66 Mbit/s  
95th percentile per-packet one-way delay: 134.892 ms  
Loss rate: 6.64%

Run 3: Report of Muses\_DecisionTreeH0 — Data Link

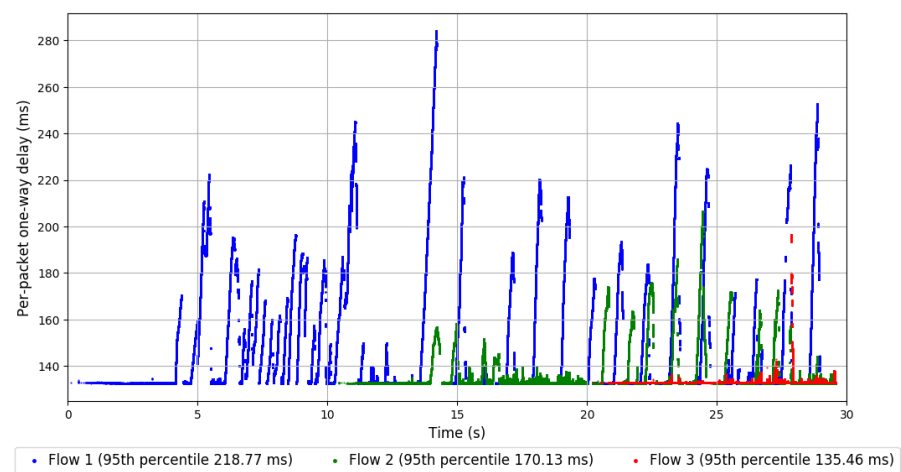
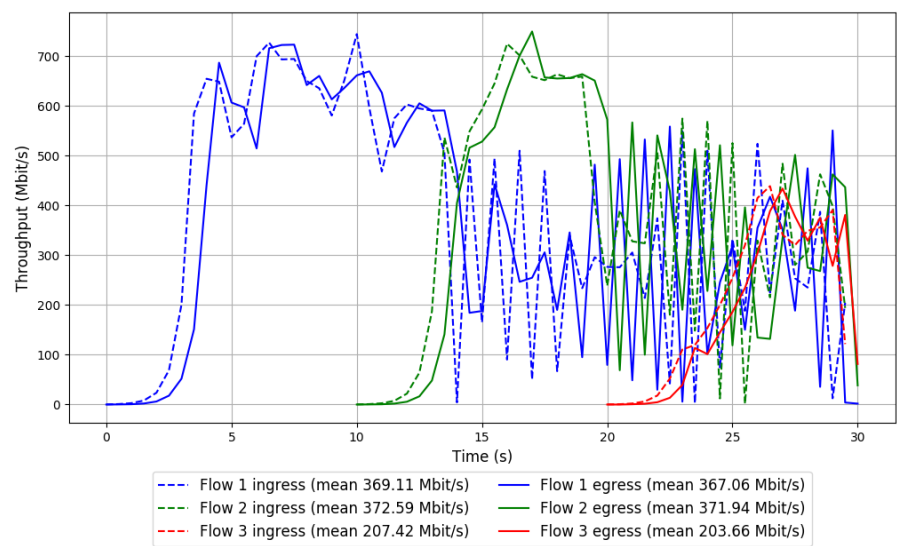


Run 4: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-08-27 11:24:01  
End at: 2019-08-27 11:24:31  
Local clock offset: -0.469 ms  
Remote clock offset: -0.342 ms

# Below is generated by plot.py at 2019-08-27 14:15:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 676.45 Mbit/s  
95th percentile per-packet one-way delay: 204.405 ms  
Loss rate: 1.78%  
-- Flow 1:  
Average throughput: 367.06 Mbit/s  
95th percentile per-packet one-way delay: 218.773 ms  
Loss rate: 1.45%  
-- Flow 2:  
Average throughput: 371.94 Mbit/s  
95th percentile per-packet one-way delay: 170.131 ms  
Loss rate: 1.53%  
-- Flow 3:  
Average throughput: 203.66 Mbit/s  
95th percentile per-packet one-way delay: 135.459 ms  
Loss rate: 4.56%

Run 4: Report of Muses\_DecisionTreeH0 — Data Link



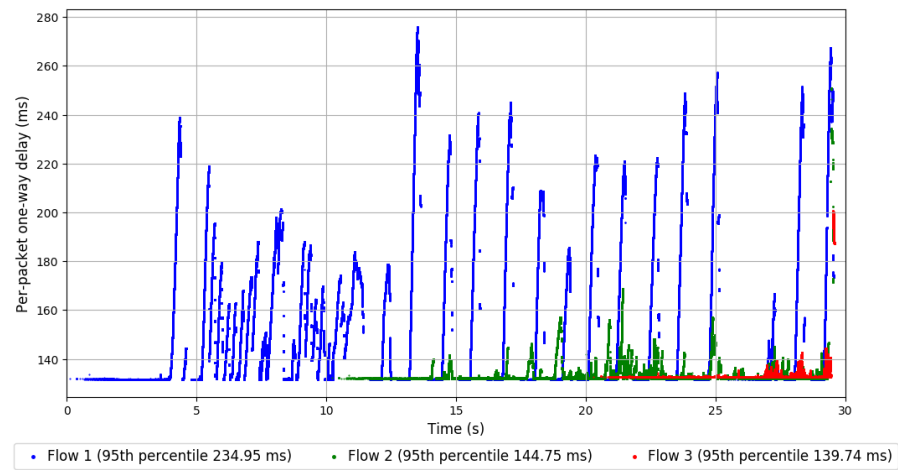
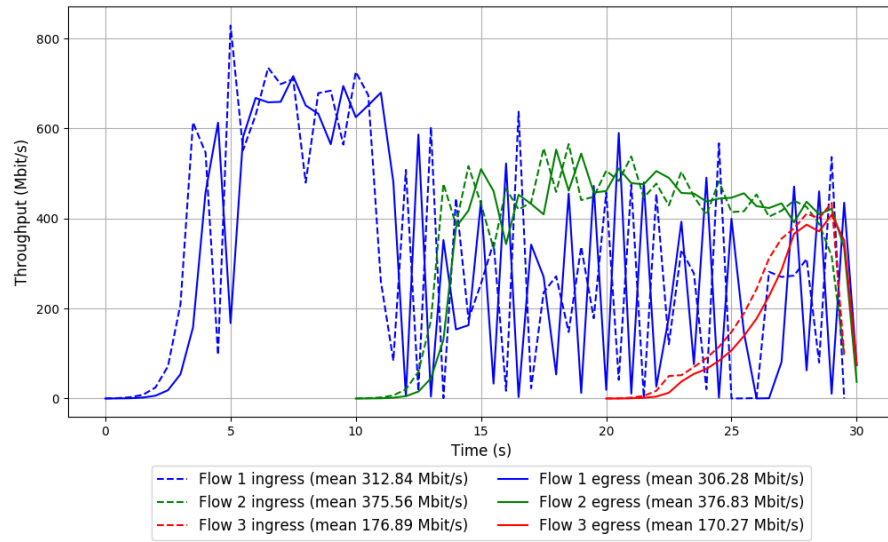


Run 5: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-08-27 12:07:24  
End at: 2019-08-27 12:07:54  
Local clock offset: -0.351 ms  
Remote clock offset: -0.352 ms

# Below is generated by plot.py at 2019-08-27 14:15:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 607.07 Mbit/s  
95th percentile per-packet one-way delay: 220.701 ms  
Loss rate: 2.50%  
-- Flow 1:  
Average throughput: 306.28 Mbit/s  
95th percentile per-packet one-way delay: 234.950 ms  
Loss rate: 3.00%  
-- Flow 2:  
Average throughput: 376.83 Mbit/s  
95th percentile per-packet one-way delay: 144.750 ms  
Loss rate: 0.96%  
-- Flow 3:  
Average throughput: 170.27 Mbit/s  
95th percentile per-packet one-way delay: 139.741 ms  
Loss rate: 6.44%

# Run 5: Report of Muses\_DecisionTreeH0 — Data Link

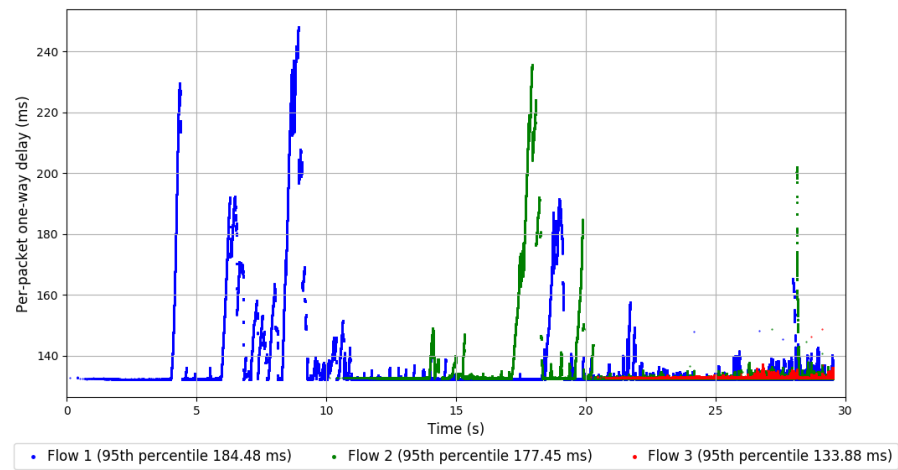
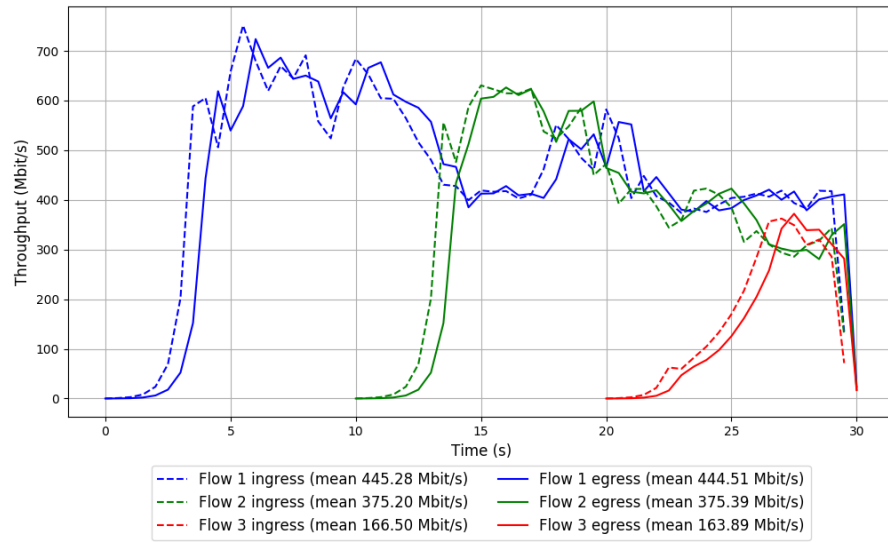


Run 1: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-08-27 09:07:00  
End at: 2019-08-27 09:07:30  
Local clock offset: -0.307 ms  
Remote clock offset: -0.119 ms

# Below is generated by plot.py at 2019-08-27 14:17:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 744.28 Mbit/s  
95th percentile per-packet one-way delay: 180.079 ms  
Loss rate: 1.38%  
-- Flow 1:  
Average throughput: 444.51 Mbit/s  
95th percentile per-packet one-way delay: 184.484 ms  
Loss rate: 1.07%  
-- Flow 2:  
Average throughput: 375.39 Mbit/s  
95th percentile per-packet one-way delay: 177.447 ms  
Loss rate: 1.30%  
-- Flow 3:  
Average throughput: 163.89 Mbit/s  
95th percentile per-packet one-way delay: 133.875 ms  
Loss rate: 4.30%

# Run 1: Report of Muses\_DecisionTreeR0 — Data Link

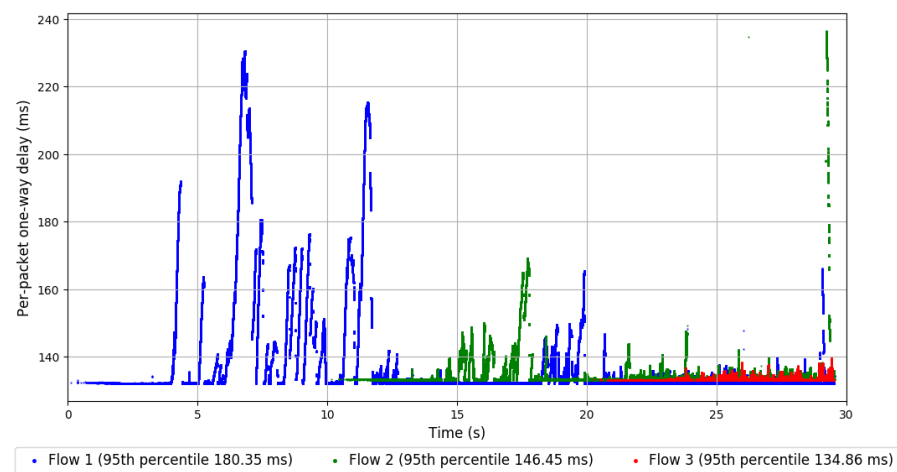
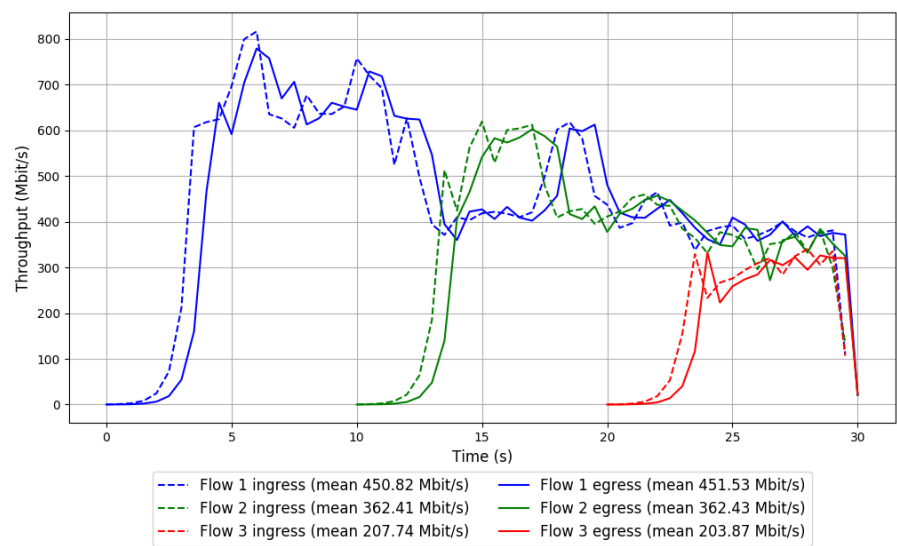


Run 2: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-08-27 09:50:11  
End at: 2019-08-27 09:50:41  
Local clock offset: 0.283 ms  
Remote clock offset: -0.133 ms

# Below is generated by plot.py at 2019-08-27 14:20:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 754.47 Mbit/s  
95th percentile per-packet one-way delay: 169.025 ms  
Loss rate: 1.27%  
-- Flow 1:  
Average throughput: 451.53 Mbit/s  
95th percentile per-packet one-way delay: 180.352 ms  
Loss rate: 0.74%  
-- Flow 2:  
Average throughput: 362.43 Mbit/s  
95th percentile per-packet one-way delay: 146.449 ms  
Loss rate: 1.32%  
-- Flow 3:  
Average throughput: 203.87 Mbit/s  
95th percentile per-packet one-way delay: 134.863 ms  
Loss rate: 4.66%

Run 2: Report of Muses\_DecisionTreeR0 — Data Link

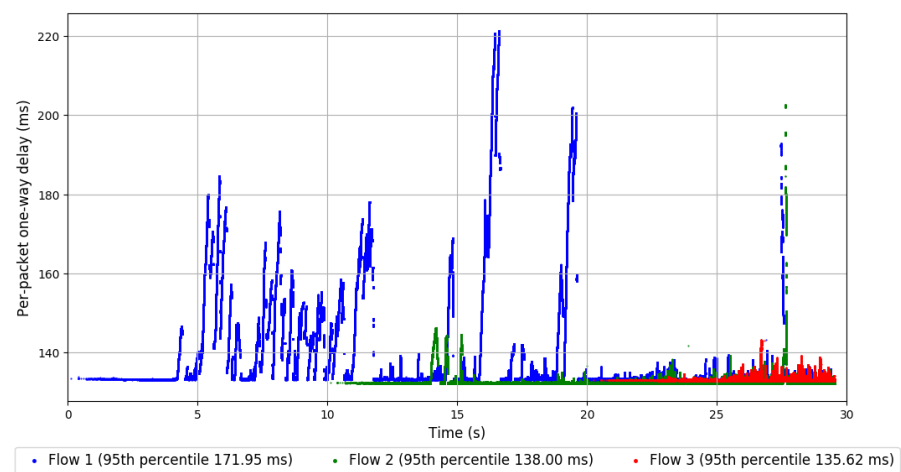
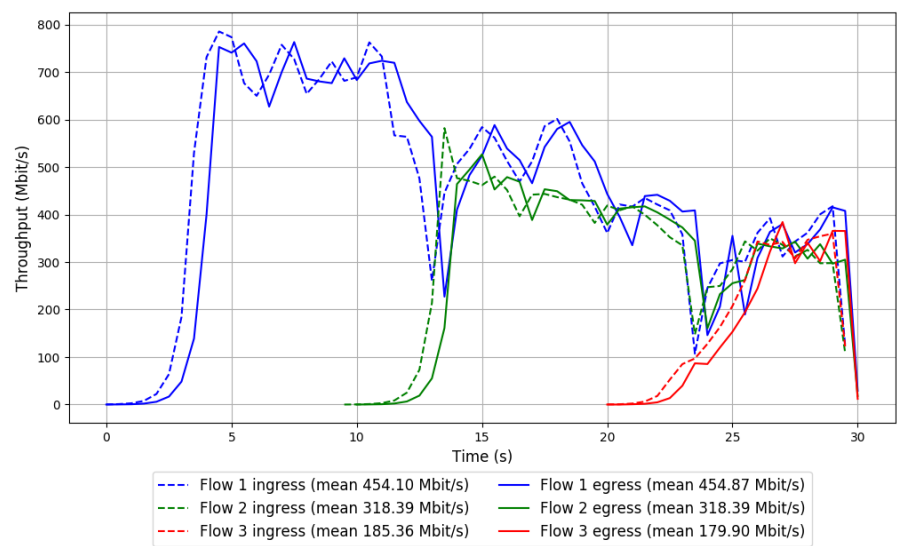


Run 3: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-08-27 10:33:49  
End at: 2019-08-27 10:34:19  
Local clock offset: 0.67 ms  
Remote clock offset: -0.127 ms

# Below is generated by plot.py at 2019-08-27 14:21:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 721.82 Mbit/s  
95th percentile per-packet one-way delay: 166.999 ms  
Loss rate: 1.32%  
-- Flow 1:  
Average throughput: 454.87 Mbit/s  
95th percentile per-packet one-way delay: 171.950 ms  
Loss rate: 0.73%  
-- Flow 2:  
Average throughput: 318.39 Mbit/s  
95th percentile per-packet one-way delay: 137.995 ms  
Loss rate: 1.36%  
-- Flow 3:  
Average throughput: 179.90 Mbit/s  
95th percentile per-packet one-way delay: 135.620 ms  
Loss rate: 5.69%

Run 3: Report of Muses\_DecisionTreeR0 — Data Link





Run 4: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-08-27 11:17:31

End at: 2019-08-27 11:18:01

Local clock offset: -0.508 ms

Remote clock offset: 0.019 ms

# Below is generated by plot.py at 2019-08-27 14:21:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 704.51 Mbit/s

95th percentile per-packet one-way delay: 156.381 ms

Loss rate: 1.55%

-- Flow 1:

Average throughput: 431.10 Mbit/s

95th percentile per-packet one-way delay: 164.371 ms

Loss rate: 0.96%

-- Flow 2:

Average throughput: 333.39 Mbit/s

95th percentile per-packet one-way delay: 135.331 ms

Loss rate: 1.64%

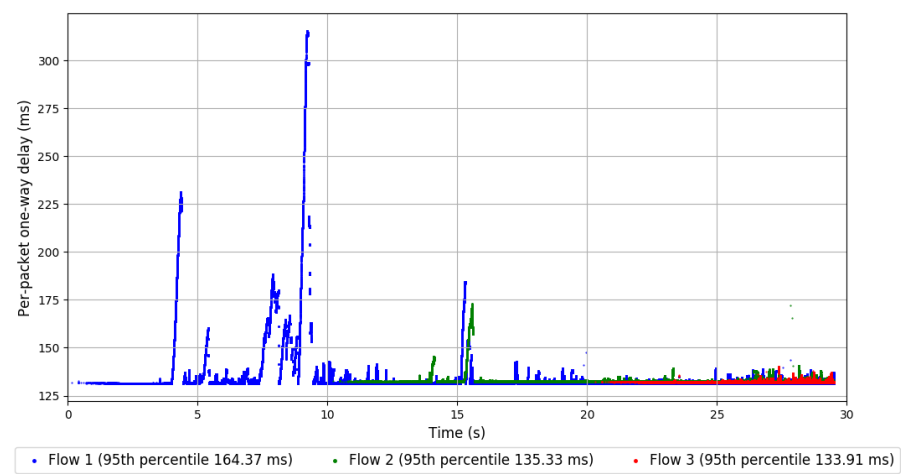
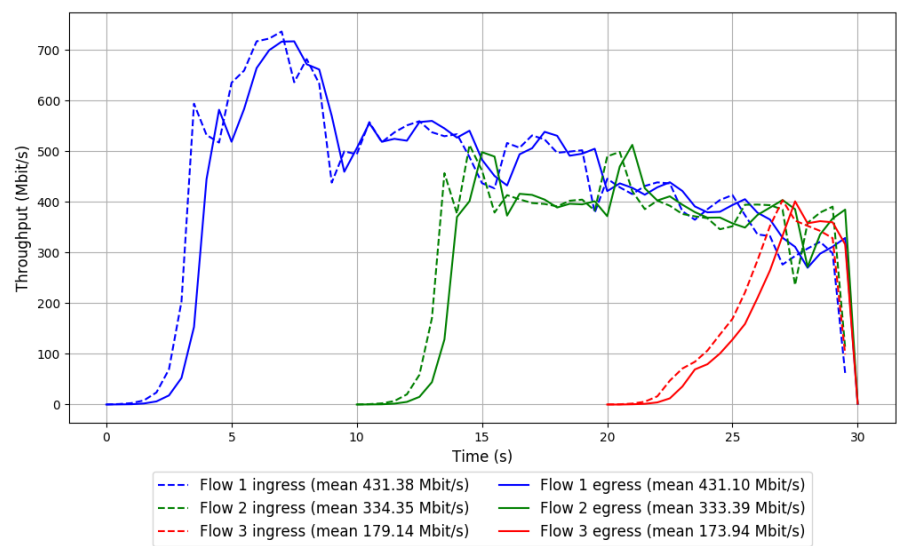
-- Flow 3:

Average throughput: 173.94 Mbit/s

95th percentile per-packet one-way delay: 133.908 ms

Loss rate: 5.64%

Run 4: Report of Muses\_DecisionTreeR0 — Data Link

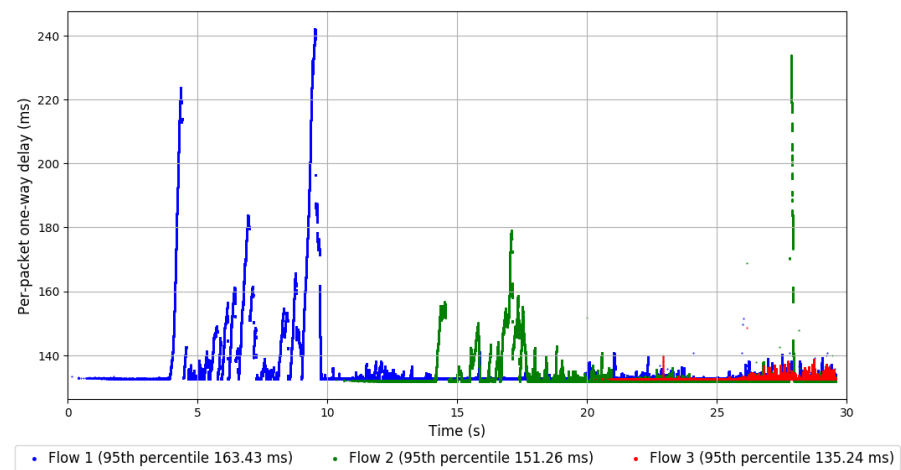
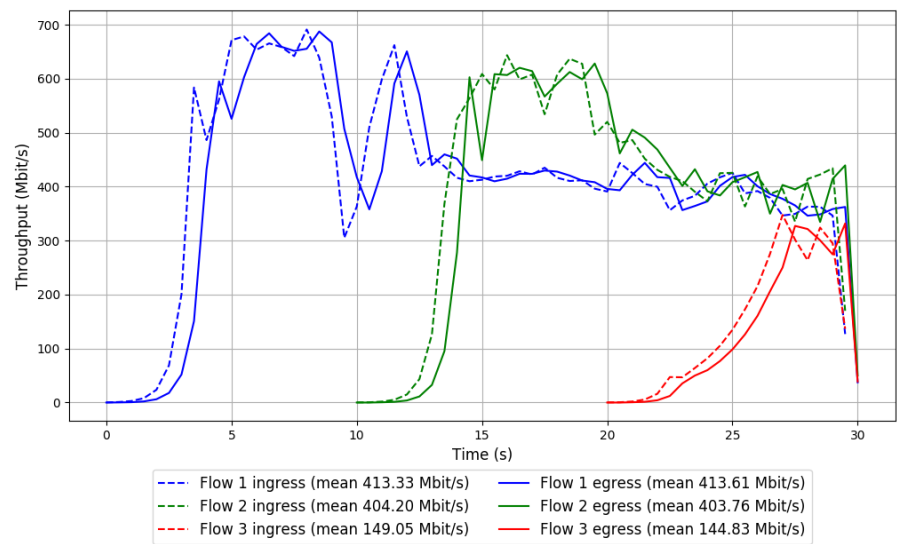


Run 5: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-08-27 12:00:53  
End at: 2019-08-27 12:01:23  
Local clock offset: -0.413 ms  
Remote clock offset: -0.296 ms

# Below is generated by plot.py at 2019-08-27 14:22:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 722.62 Mbit/s  
95th percentile per-packet one-way delay: 155.386 ms  
Loss rate: 1.38%  
-- Flow 1:  
Average throughput: 413.61 Mbit/s  
95th percentile per-packet one-way delay: 163.425 ms  
Loss rate: 0.83%  
-- Flow 2:  
Average throughput: 403.76 Mbit/s  
95th percentile per-packet one-way delay: 151.259 ms  
Loss rate: 1.48%  
-- Flow 3:  
Average throughput: 144.83 Mbit/s  
95th percentile per-packet one-way delay: 135.243 ms  
Loss rate: 5.64%

Run 5: Report of Muses\_DecisionTreeR0 — Data Link

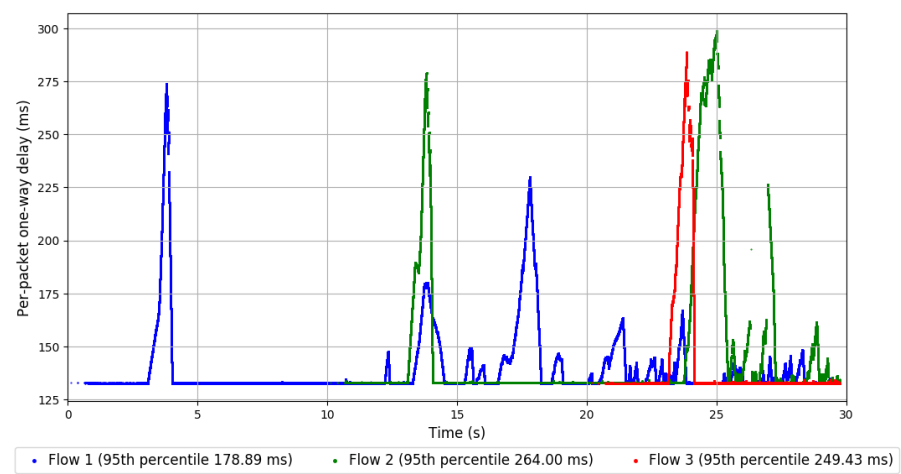
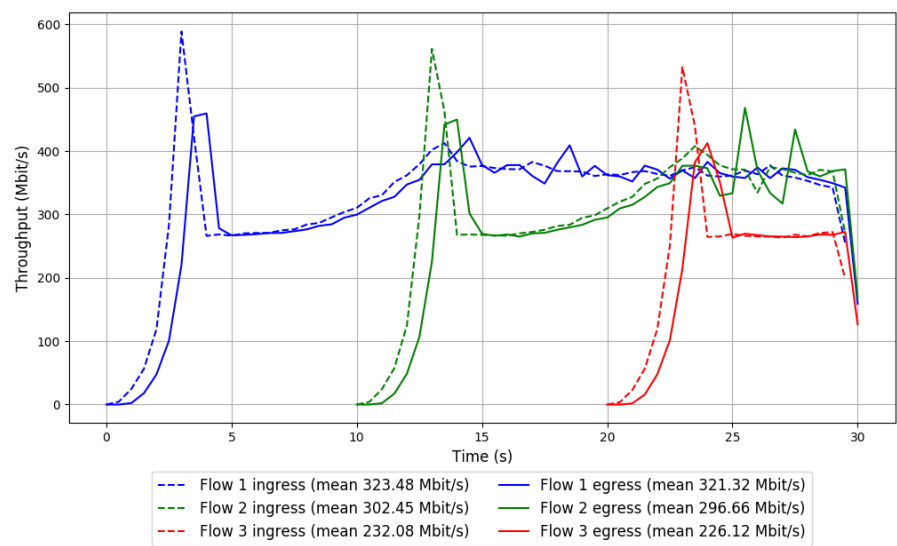


Run 1: Statistics of PCC-Allegro

Start at: 2019-08-27 09:15:26  
End at: 2019-08-27 09:15:56  
Local clock offset: -0.366 ms  
Remote clock offset: -0.104 ms

# Below is generated by plot.py at 2019-08-27 14:29:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 590.67 Mbit/s  
95th percentile per-packet one-way delay: 222.790 ms  
Loss rate: 2.58%  
-- Flow 1:  
Average throughput: 321.32 Mbit/s  
95th percentile per-packet one-way delay: 178.891 ms  
Loss rate: 1.55%  
-- Flow 2:  
Average throughput: 296.66 Mbit/s  
95th percentile per-packet one-way delay: 264.005 ms  
Loss rate: 3.23%  
-- Flow 3:  
Average throughput: 226.12 Mbit/s  
95th percentile per-packet one-way delay: 249.434 ms  
Loss rate: 5.23%

Run 1: Report of PCC-Allegro — Data Link

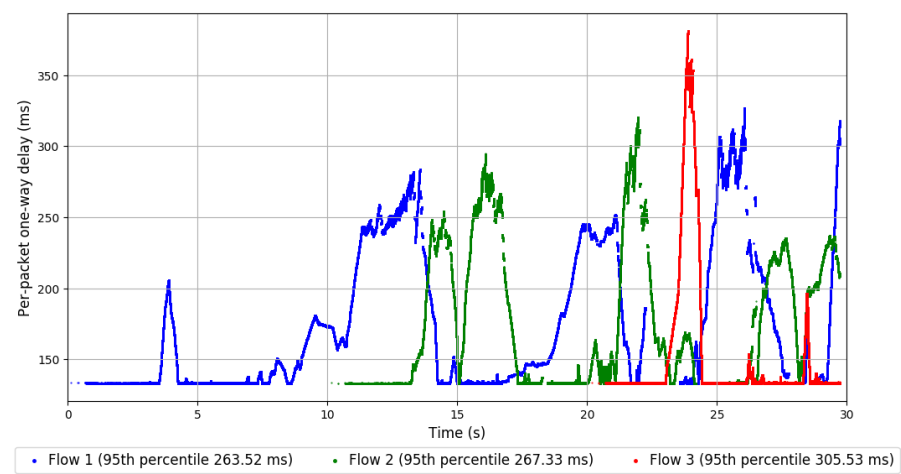
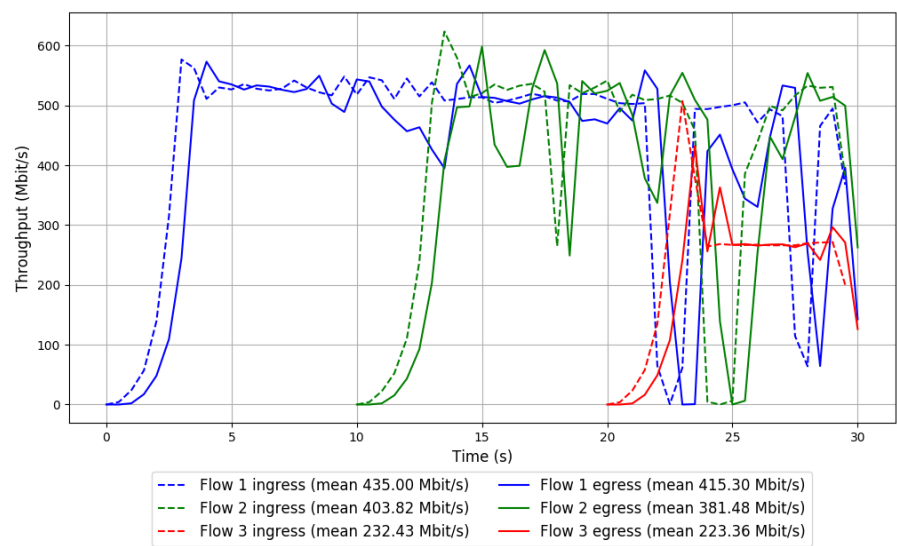


Run 2: Statistics of PCC-Allegro

Start at: 2019-08-27 09:58:46  
End at: 2019-08-27 09:59:16  
Local clock offset: 0.189 ms  
Remote clock offset: -0.483 ms

# Below is generated by plot.py at 2019-08-27 14:35:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 739.86 Mbit/s  
95th percentile per-packet one-way delay: 267.051 ms  
Loss rate: 5.98%  
-- Flow 1:  
Average throughput: 415.30 Mbit/s  
95th percentile per-packet one-way delay: 263.522 ms  
Loss rate: 5.38%  
-- Flow 2:  
Average throughput: 381.48 Mbit/s  
95th percentile per-packet one-way delay: 267.328 ms  
Loss rate: 6.80%  
-- Flow 3:  
Average throughput: 223.36 Mbit/s  
95th percentile per-packet one-way delay: 305.532 ms  
Loss rate: 6.51%

Run 2: Report of PCC-Allegro — Data Link



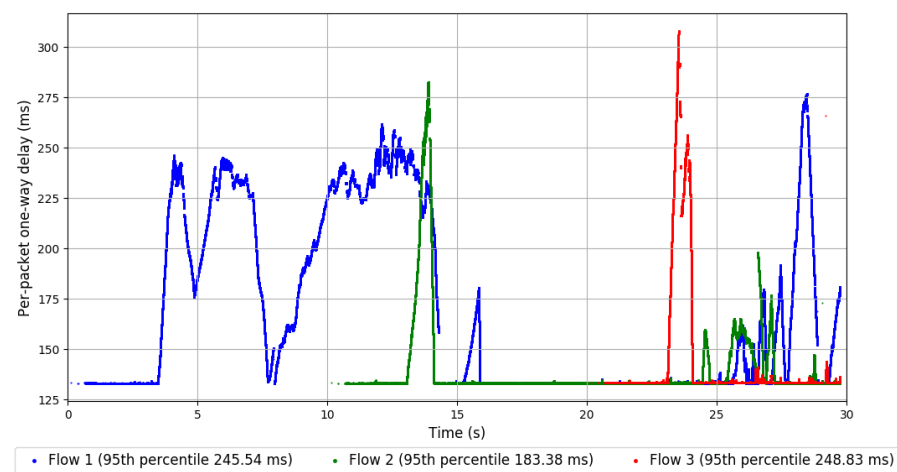
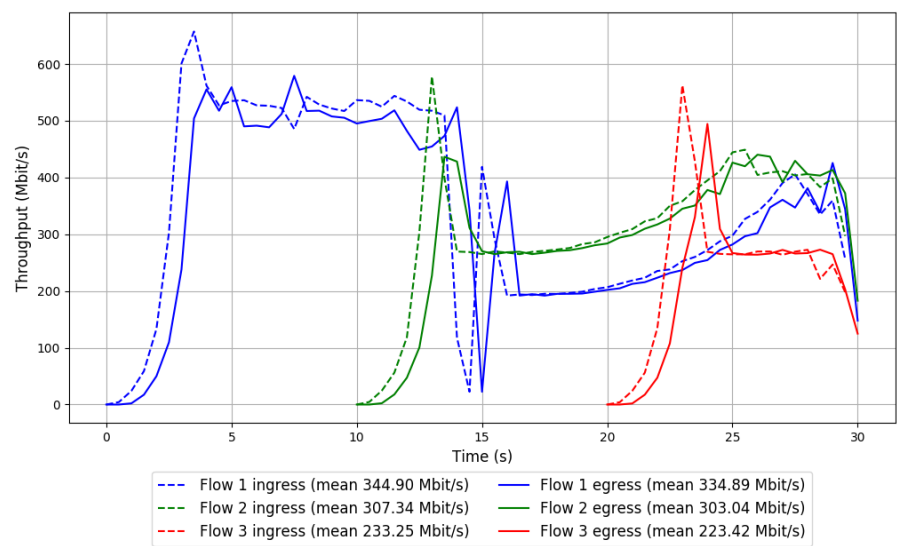


Run 3: Statistics of PCC-Allegro

Start at: 2019-08-27 10:42:16  
End at: 2019-08-27 10:42:46  
Local clock offset: 0.484 ms  
Remote clock offset: -0.183 ms

# Below is generated by plot.py at 2019-08-27 14:35:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 607.76 Mbit/s  
95th percentile per-packet one-way delay: 243.282 ms  
Loss rate: 3.80%  
-- Flow 1:  
Average throughput: 334.89 Mbit/s  
95th percentile per-packet one-way delay: 245.544 ms  
Loss rate: 3.77%  
-- Flow 2:  
Average throughput: 303.04 Mbit/s  
95th percentile per-packet one-way delay: 183.381 ms  
Loss rate: 2.72%  
-- Flow 3:  
Average throughput: 223.42 Mbit/s  
95th percentile per-packet one-way delay: 248.832 ms  
Loss rate: 6.82%

Run 3: Report of PCC-Allegro — Data Link

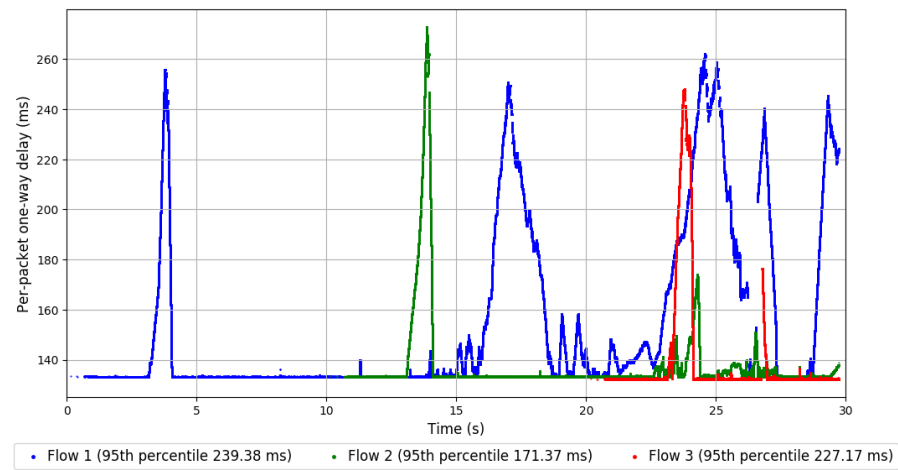
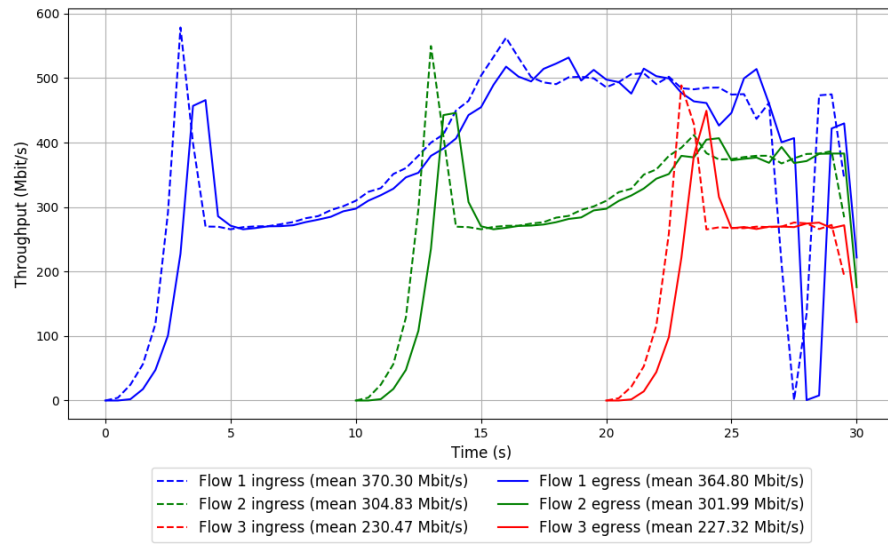


Run 4: Statistics of PCC-Allegro

Start at: 2019-08-27 11:25:56  
End at: 2019-08-27 11:26:26  
Local clock offset: 0.06 ms  
Remote clock offset: -0.321 ms

# Below is generated by plot.py at 2019-08-27 14:35:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 638.11 Mbit/s  
95th percentile per-packet one-way delay: 233.202 ms  
Loss rate: 2.54%  
-- Flow 1:  
Average throughput: 364.80 Mbit/s  
95th percentile per-packet one-way delay: 239.377 ms  
Loss rate: 2.37%  
-- Flow 2:  
Average throughput: 301.99 Mbit/s  
95th percentile per-packet one-way delay: 171.372 ms  
Loss rate: 2.27%  
-- Flow 3:  
Average throughput: 227.32 Mbit/s  
95th percentile per-packet one-way delay: 227.167 ms  
Loss rate: 4.05%

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

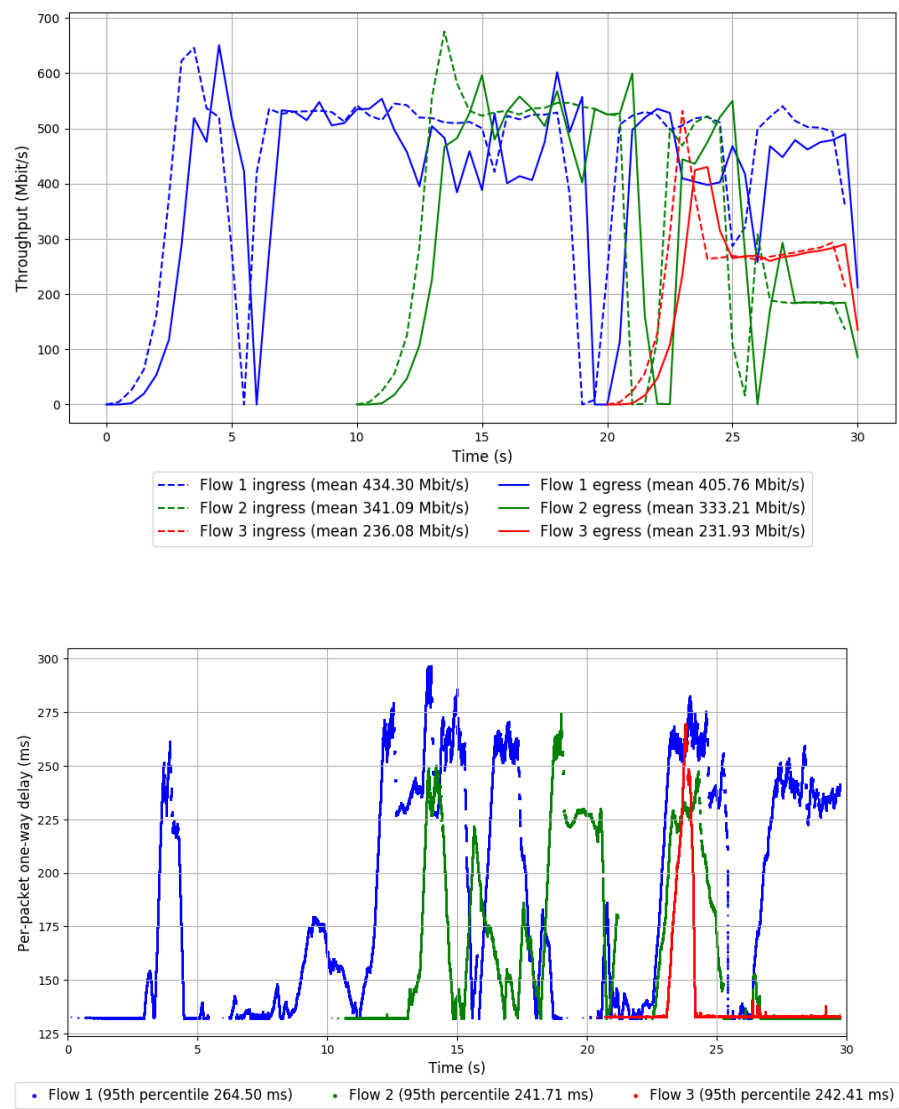


Run 5: Statistics of PCC-Allegro

Start at: 2019-08-27 12:09:15  
End at: 2019-08-27 12:09:45  
Local clock offset: 0.017 ms  
Remote clock offset: -0.282 ms

# Below is generated by plot.py at 2019-08-27 14:40:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 701.32 Mbit/s  
95th percentile per-packet one-way delay: 260.914 ms  
Loss rate: 5.93%  
-- Flow 1:  
Average throughput: 405.76 Mbit/s  
95th percentile per-packet one-way delay: 264.498 ms  
Loss rate: 7.40%  
-- Flow 2:  
Average throughput: 333.21 Mbit/s  
95th percentile per-packet one-way delay: 241.706 ms  
Loss rate: 3.61%  
-- Flow 3:  
Average throughput: 231.93 Mbit/s  
95th percentile per-packet one-way delay: 242.409 ms  
Loss rate: 4.42%

Run 5: Report of PCC-Allegro — Data Link

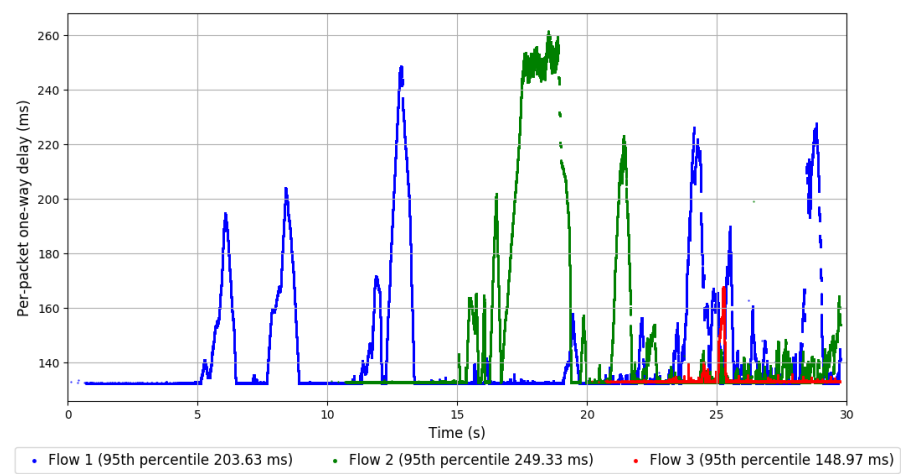
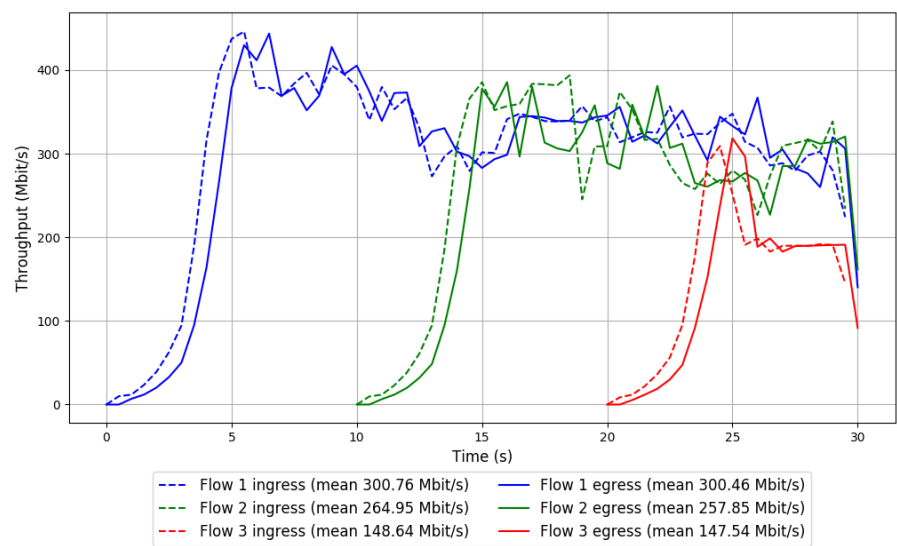


```
Run 1: Statistics of PCC-Expr

Start at: 2019-08-27 09:01:02
End at: 2019-08-27 09:01:32
Local clock offset: -0.198 ms
Remote clock offset: -0.125 ms

# Below is generated by plot.py at 2019-08-27 14:40:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 518.78 Mbit/s
95th percentile per-packet one-way delay: 217.105 ms
Loss rate: 2.24%
-- Flow 1:
Average throughput: 300.46 Mbit/s
95th percentile per-packet one-way delay: 203.630 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 257.85 Mbit/s
95th percentile per-packet one-way delay: 249.332 ms
Loss rate: 3.99%
-- Flow 3:
Average throughput: 147.54 Mbit/s
95th percentile per-packet one-way delay: 148.965 ms
Loss rate: 3.56%
```

Run 1: Report of PCC-Expr — Data Link



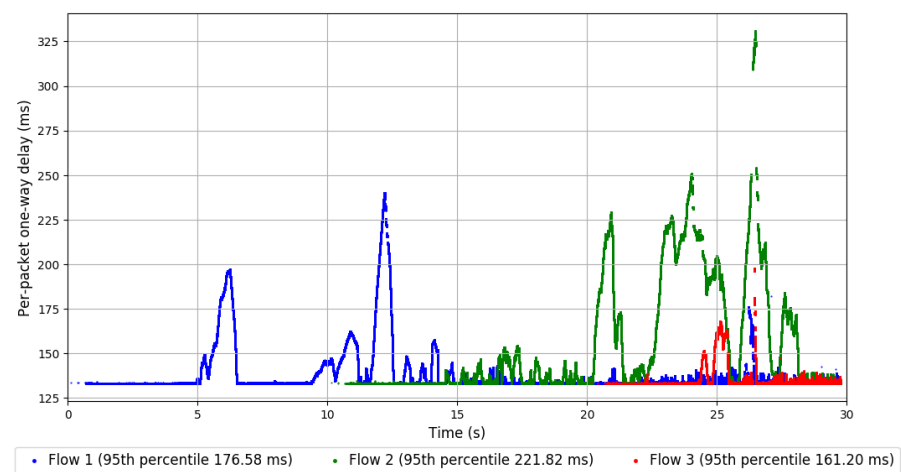
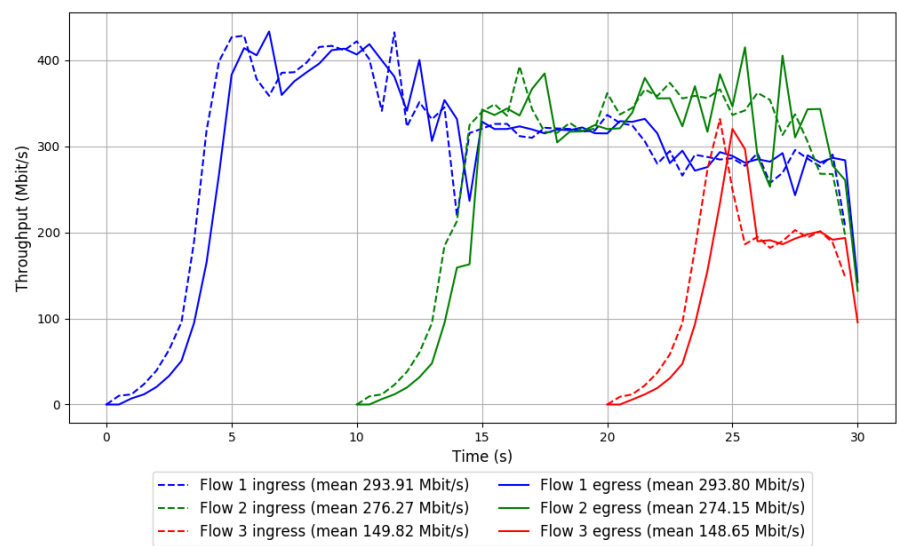


Run 2: Statistics of PCC-Expr

Start at: 2019-08-27 09:44:34  
End at: 2019-08-27 09:45:04  
Local clock offset: 0.34 ms  
Remote clock offset: -0.113 ms

# Below is generated by plot.py at 2019-08-27 14:40:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 523.45 Mbit/s  
95th percentile per-packet one-way delay: 212.158 ms  
Loss rate: 1.58%  
-- Flow 1:  
Average throughput: 293.80 Mbit/s  
95th percentile per-packet one-way delay: 176.579 ms  
Loss rate: 0.94%  
-- Flow 2:  
Average throughput: 274.15 Mbit/s  
95th percentile per-packet one-way delay: 221.816 ms  
Loss rate: 2.10%  
-- Flow 3:  
Average throughput: 148.65 Mbit/s  
95th percentile per-packet one-way delay: 161.203 ms  
Loss rate: 3.46%

Run 2: Report of PCC-Expr — Data Link

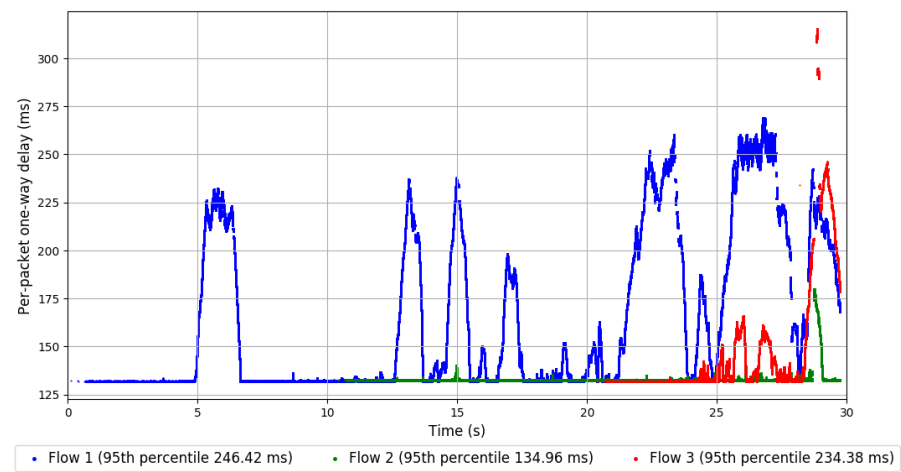
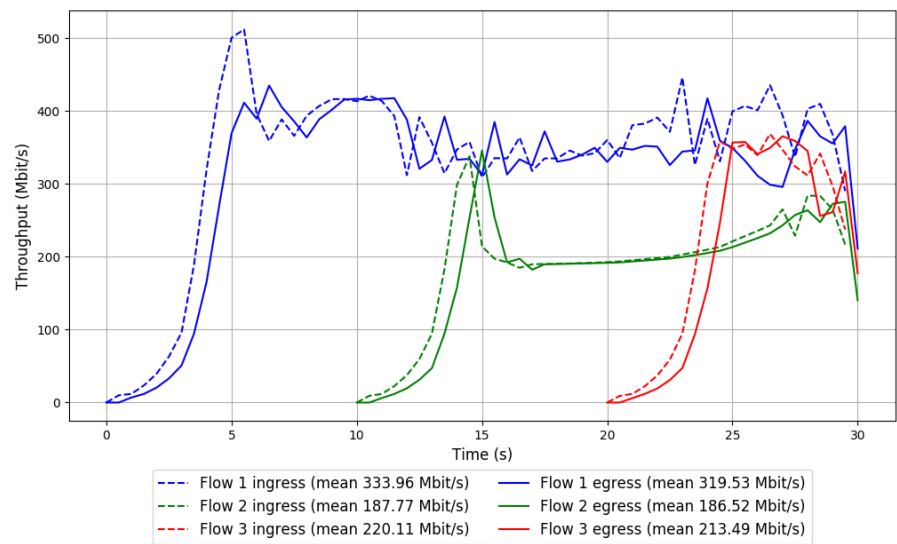


Run 3: Statistics of PCC-Expr

Start at: 2019-08-27 10:27:56  
End at: 2019-08-27 10:28:26  
Local clock offset: -0.133 ms  
Remote clock offset: -0.177 ms

# Below is generated by plot.py at 2019-08-27 14:40:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 512.16 Mbit/s  
95th percentile per-packet one-way delay: 240.066 ms  
Loss rate: 4.50%  
-- Flow 1:  
Average throughput: 319.53 Mbit/s  
95th percentile per-packet one-way delay: 246.423 ms  
Loss rate: 5.18%  
-- Flow 2:  
Average throughput: 186.52 Mbit/s  
95th percentile per-packet one-way delay: 134.958 ms  
Loss rate: 2.01%  
-- Flow 3:  
Average throughput: 213.49 Mbit/s  
95th percentile per-packet one-way delay: 234.376 ms  
Loss rate: 5.66%

Run 3: Report of PCC-Expr — Data Link

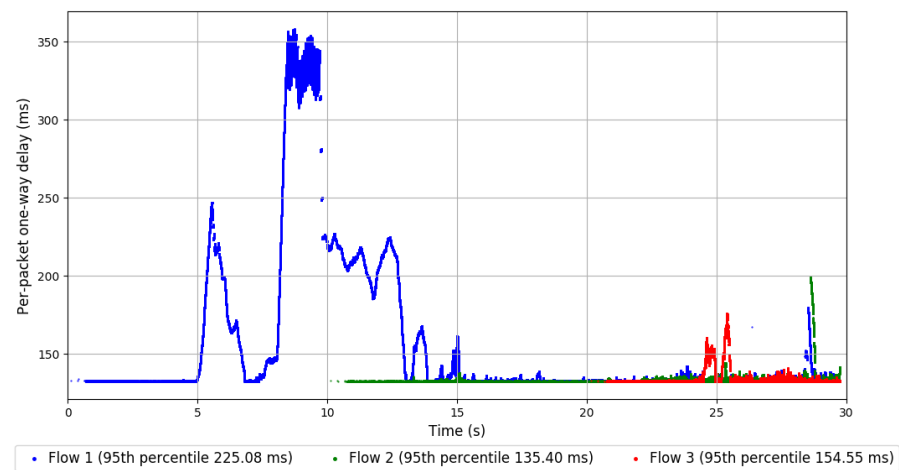
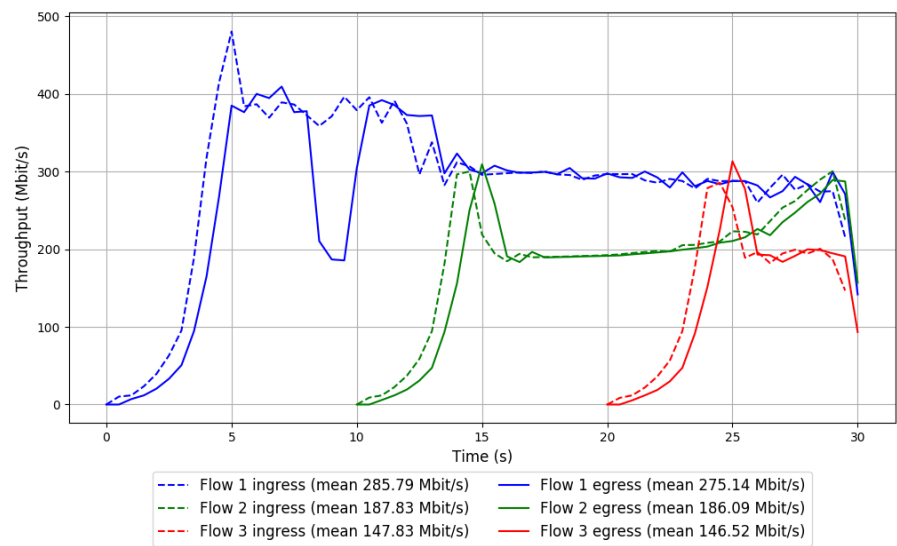


Run 4: Statistics of PCC-Expr

Start at: 2019-08-27 11:11:31  
End at: 2019-08-27 11:12:01  
Local clock offset: -0.553 ms  
Remote clock offset: -0.384 ms

# Below is generated by plot.py at 2019-08-27 14:42:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 445.80 Mbit/s  
95th percentile per-packet one-way delay: 218.982 ms  
Loss rate: 3.85%  
-- Flow 1:  
Average throughput: 275.14 Mbit/s  
95th percentile per-packet one-way delay: 225.083 ms  
Loss rate: 4.59%  
-- Flow 2:  
Average throughput: 186.09 Mbit/s  
95th percentile per-packet one-way delay: 135.398 ms  
Loss rate: 2.26%  
-- Flow 3:  
Average throughput: 146.52 Mbit/s  
95th percentile per-packet one-way delay: 154.549 ms  
Loss rate: 3.57%

Run 4: Report of PCC-Expr — Data Link

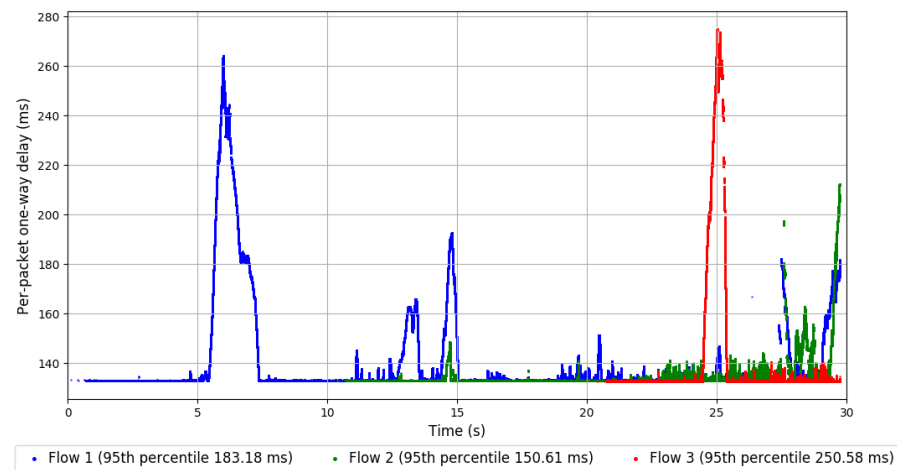
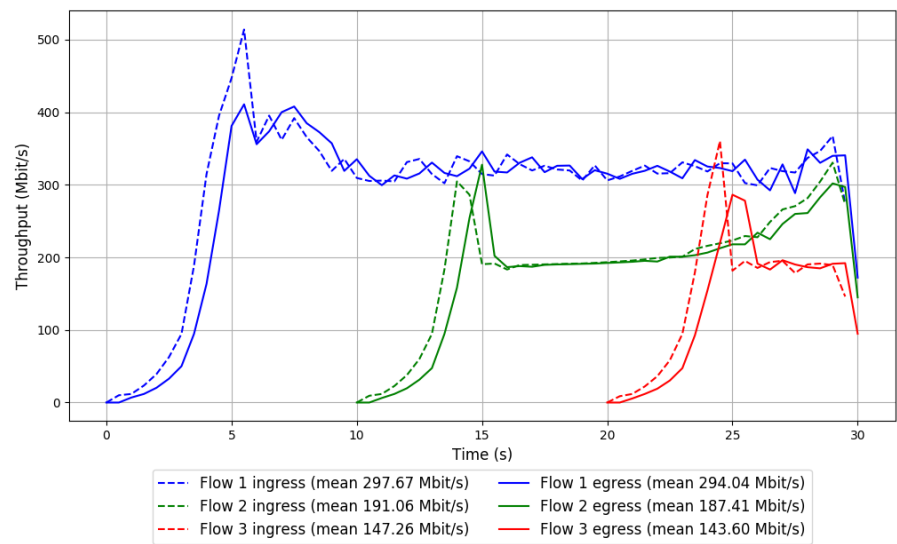


Run 5: Statistics of PCC-Expr

Start at: 2019-08-27 11:54:57  
End at: 2019-08-27 11:55:27  
Local clock offset: -0.19 ms  
Remote clock offset: -0.332 ms

# Below is generated by plot.py at 2019-08-27 14:45:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 464.63 Mbit/s  
95th percentile per-packet one-way delay: 183.505 ms  
Loss rate: 2.71%  
-- Flow 1:  
Average throughput: 294.04 Mbit/s  
95th percentile per-packet one-way delay: 183.180 ms  
Loss rate: 2.10%  
-- Flow 2:  
Average throughput: 187.41 Mbit/s  
95th percentile per-packet one-way delay: 150.608 ms  
Loss rate: 3.23%  
-- Flow 3:  
Average throughput: 143.60 Mbit/s  
95th percentile per-packet one-way delay: 250.582 ms  
Loss rate: 5.11%

Run 5: Report of PCC-Expr — Data Link



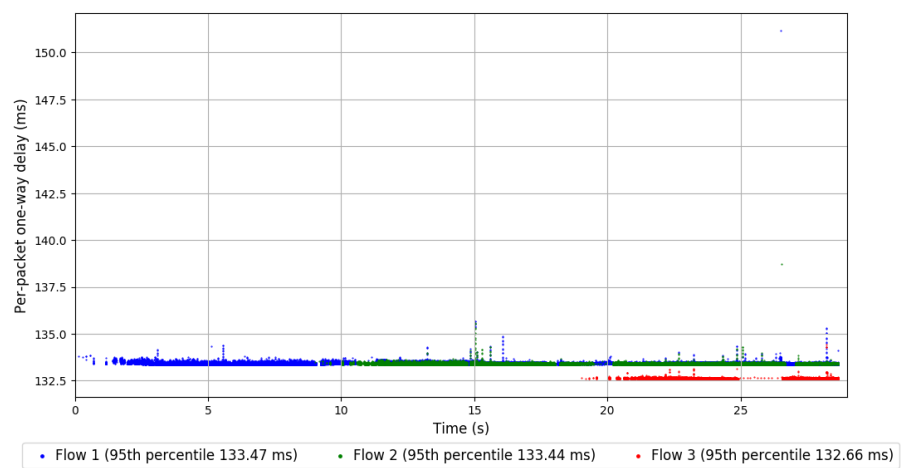
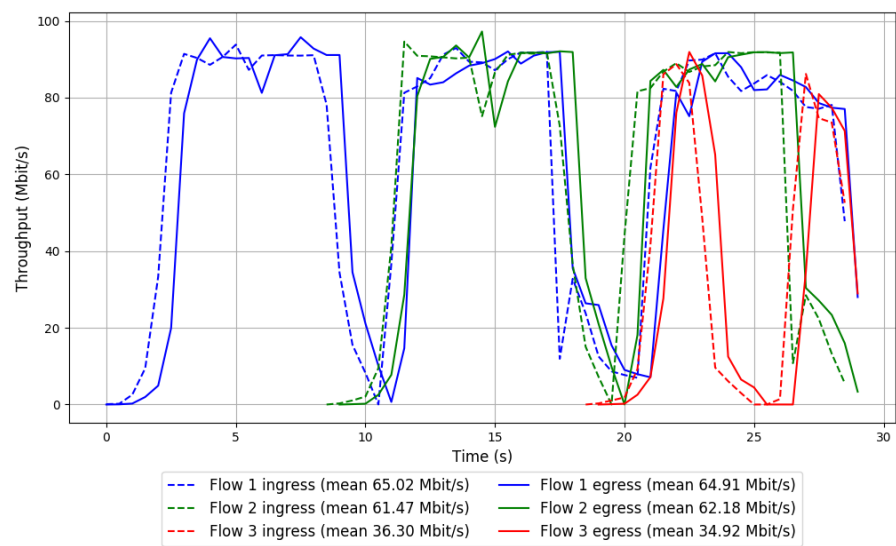


Run 1: Statistics of QUIC Cubic

Start at: 2019-08-27 09:35:15  
End at: 2019-08-27 09:35:45  
Local clock offset: 0.165 ms  
Remote clock offset: -0.145 ms

# Below is generated by plot.py at 2019-08-27 14:45:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 119.49 Mbit/s  
95th percentile per-packet one-way delay: 133.454 ms  
Loss rate: 1.33%  
-- Flow 1:  
Average throughput: 64.91 Mbit/s  
95th percentile per-packet one-way delay: 133.465 ms  
Loss rate: 1.09%  
-- Flow 2:  
Average throughput: 62.18 Mbit/s  
95th percentile per-packet one-way delay: 133.443 ms  
Loss rate: 0.19%  
-- Flow 3:  
Average throughput: 34.92 Mbit/s  
95th percentile per-packet one-way delay: 132.656 ms  
Loss rate: 6.39%

Run 1: Report of QUIC Cubic — Data Link

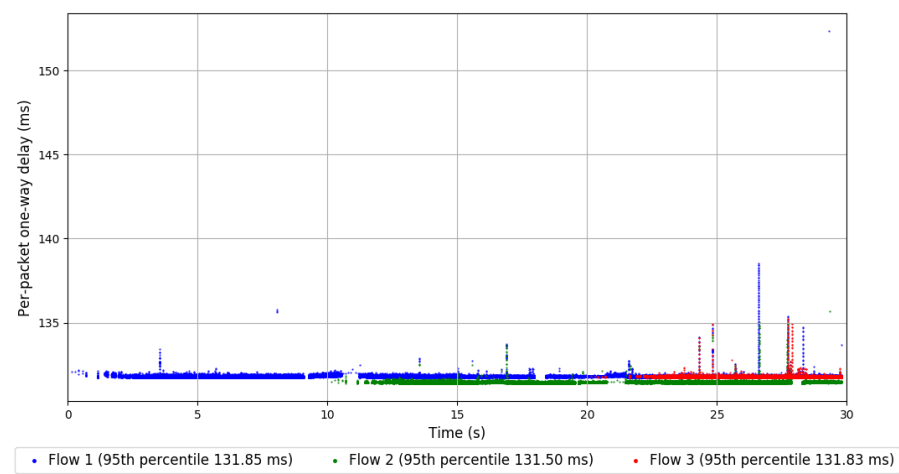
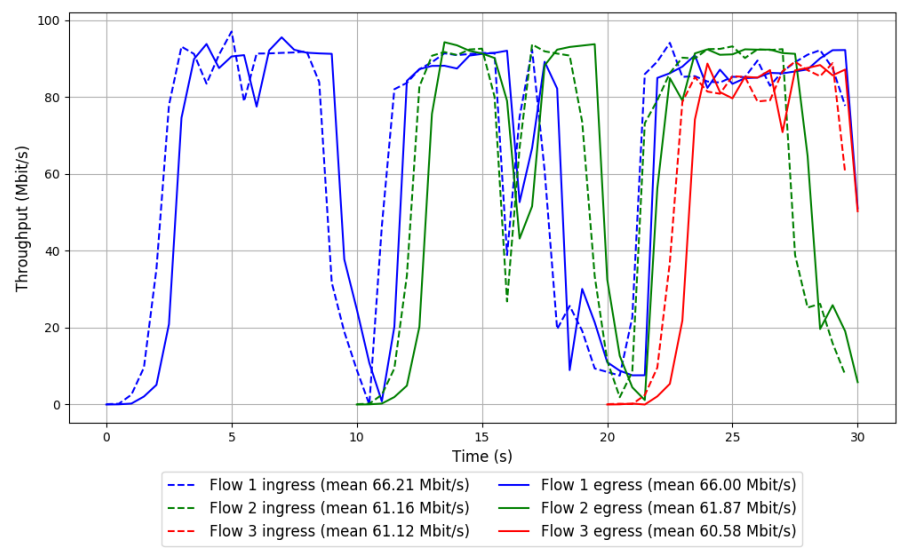


Run 2: Statistics of QUIC Cubic

Start at: 2019-08-27 10:18:35  
End at: 2019-08-27 10:19:05  
Local clock offset: -0.235 ms  
Remote clock offset: -0.087 ms

# Below is generated by plot.py at 2019-08-27 14:45:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 126.68 Mbit/s  
95th percentile per-packet one-way delay: 131.832 ms  
Loss rate: 1.13%  
-- Flow 1:  
Average throughput: 66.00 Mbit/s  
95th percentile per-packet one-way delay: 131.846 ms  
Loss rate: 1.19%  
-- Flow 2:  
Average throughput: 61.87 Mbit/s  
95th percentile per-packet one-way delay: 131.501 ms  
Loss rate: 0.20%  
-- Flow 3:  
Average throughput: 60.58 Mbit/s  
95th percentile per-packet one-way delay: 131.831 ms  
Loss rate: 2.85%

Run 2: Report of QUIC Cubic — Data Link

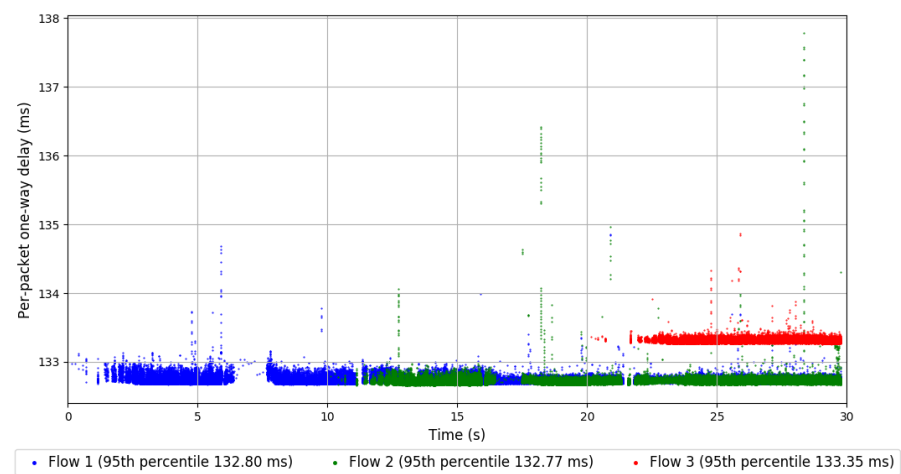
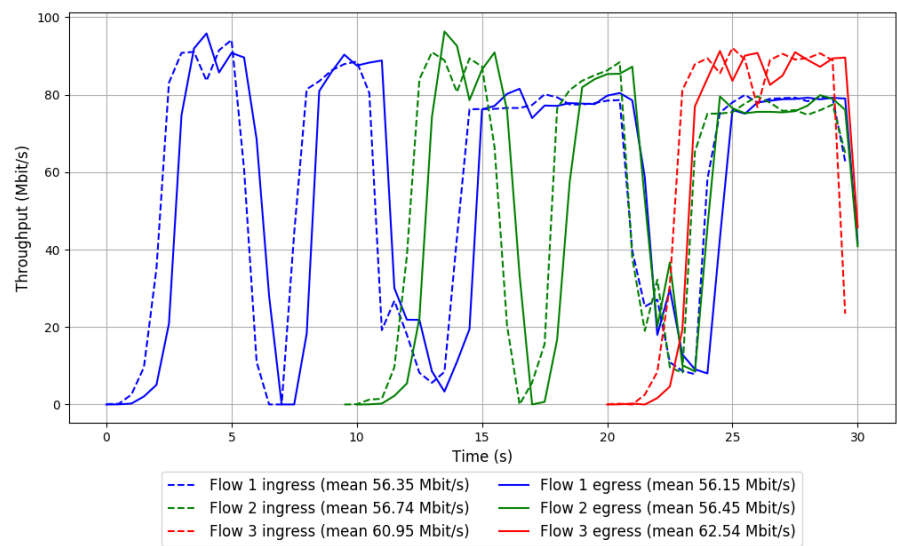


Run 3: Statistics of QUIC Cubic

Start at: 2019-08-27 11:02:24  
End at: 2019-08-27 11:02:54  
Local clock offset: 0.149 ms  
Remote clock offset: -0.408 ms

# Below is generated by plot.py at 2019-08-27 14:45:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 113.85 Mbit/s  
95th percentile per-packet one-way delay: 133.319 ms  
Loss rate: 1.26%  
-- Flow 1:  
Average throughput: 56.15 Mbit/s  
95th percentile per-packet one-way delay: 132.797 ms  
Loss rate: 1.25%  
-- Flow 2:  
Average throughput: 56.45 Mbit/s  
95th percentile per-packet one-way delay: 132.766 ms  
Loss rate: 1.82%  
-- Flow 3:  
Average throughput: 62.54 Mbit/s  
95th percentile per-packet one-way delay: 133.352 ms  
Loss rate: 0.23%

Run 3: Report of QUIC Cubic — Data Link

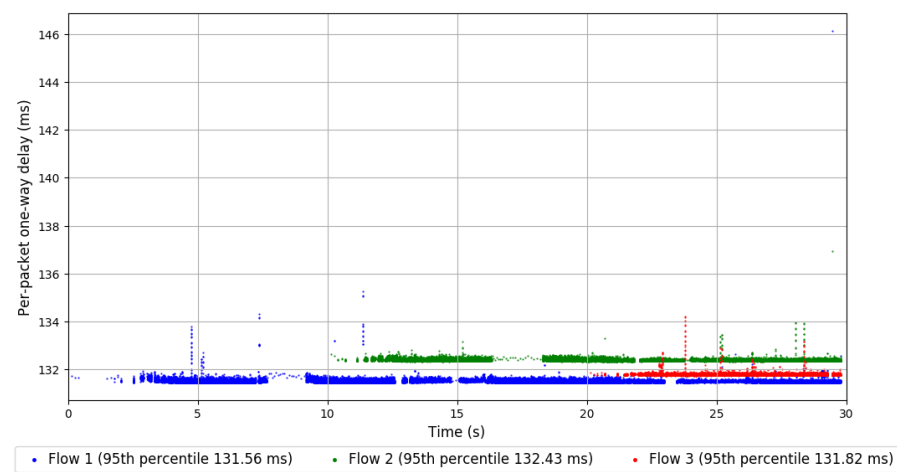
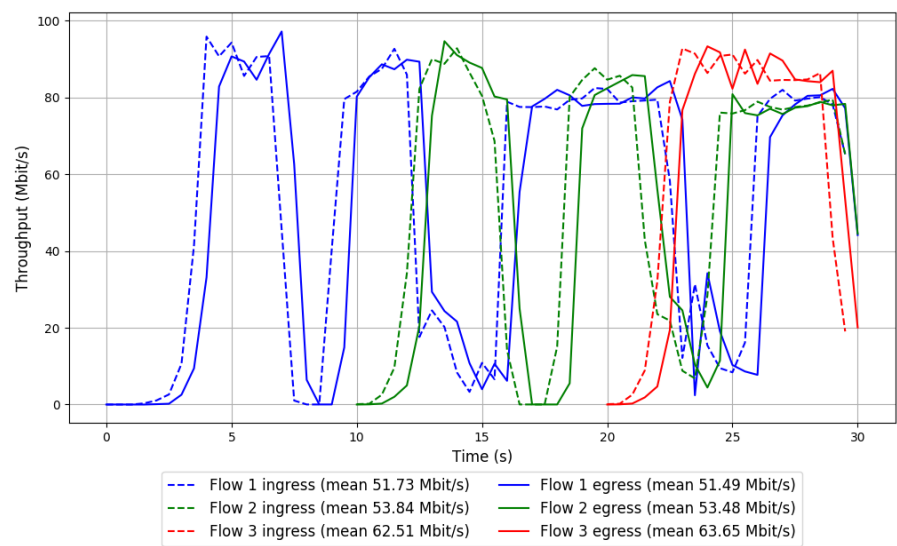


Run 4: Statistics of QUIC Cubic

Start at: 2019-08-27 11:45:56  
End at: 2019-08-27 11:46:26  
Local clock offset: -0.648 ms  
Remote clock offset: -0.276 ms

# Below is generated by plot.py at 2019-08-27 14:45:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 107.62 Mbit/s  
95th percentile per-packet one-way delay: 132.405 ms  
Loss rate: 1.48%  
-- Flow 1:  
Average throughput: 51.49 Mbit/s  
95th percentile per-packet one-way delay: 131.557 ms  
Loss rate: 1.35%  
-- Flow 2:  
Average throughput: 53.48 Mbit/s  
95th percentile per-packet one-way delay: 132.432 ms  
Loss rate: 1.98%  
-- Flow 3:  
Average throughput: 63.65 Mbit/s  
95th percentile per-packet one-way delay: 131.822 ms  
Loss rate: 0.90%

Run 4: Report of QUIC Cubic — Data Link



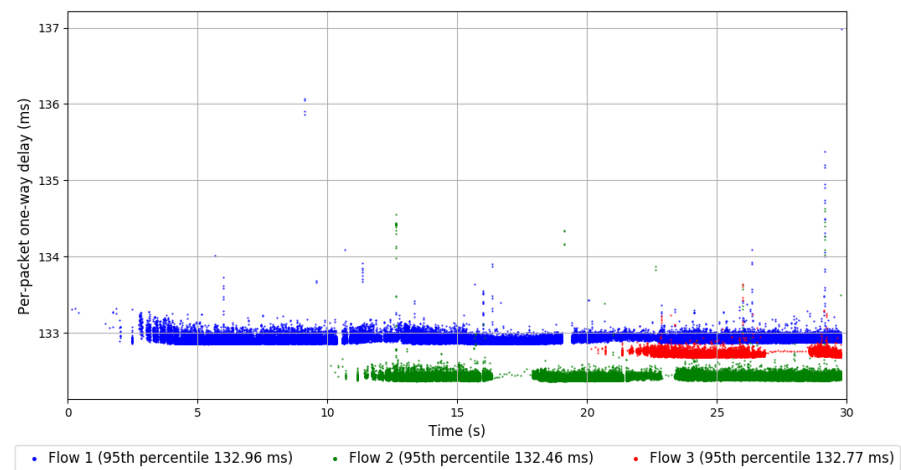
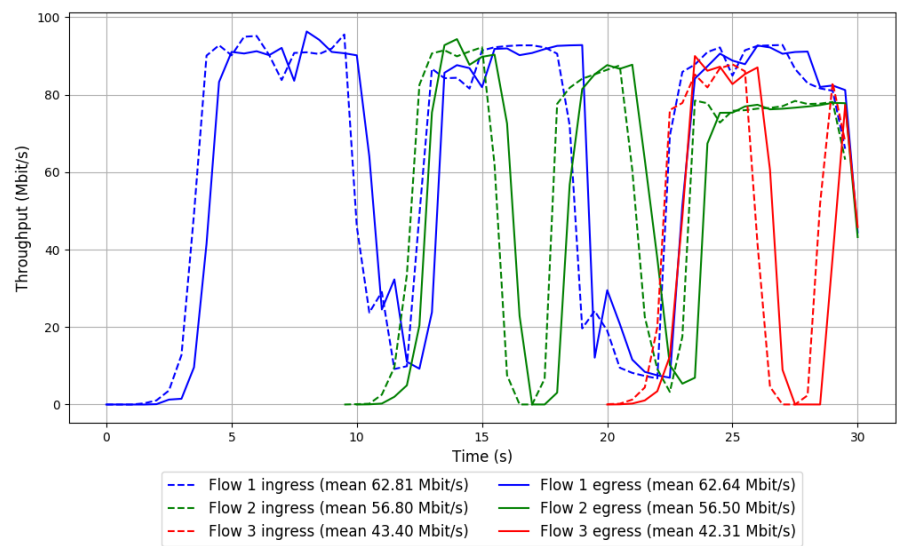


Run 5: Statistics of QUIC Cubic

Start at: 2019-08-27 12:29:31  
End at: 2019-08-27 12:30:01  
Local clock offset: -0.0 ms  
Remote clock offset: -0.263 ms

# Below is generated by plot.py at 2019-08-27 14:45:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 113.82 Mbit/s  
95th percentile per-packet one-way delay: 132.946 ms  
Loss rate: 1.87%  
-- Flow 1:  
Average throughput: 62.64 Mbit/s  
95th percentile per-packet one-way delay: 132.964 ms  
Loss rate: 1.15%  
-- Flow 2:  
Average throughput: 56.50 Mbit/s  
95th percentile per-packet one-way delay: 132.463 ms  
Loss rate: 1.85%  
-- Flow 3:  
Average throughput: 42.31 Mbit/s  
95th percentile per-packet one-way delay: 132.772 ms  
Loss rate: 5.13%

Run 5: Report of QUIC Cubic — Data Link

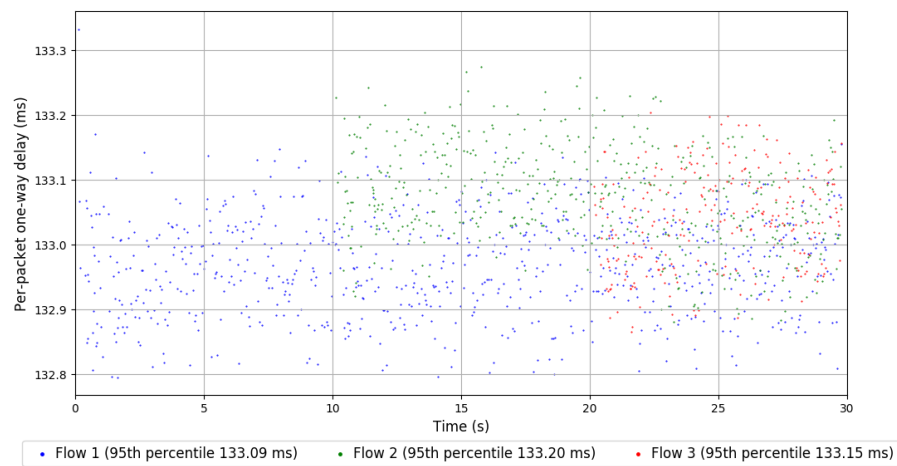
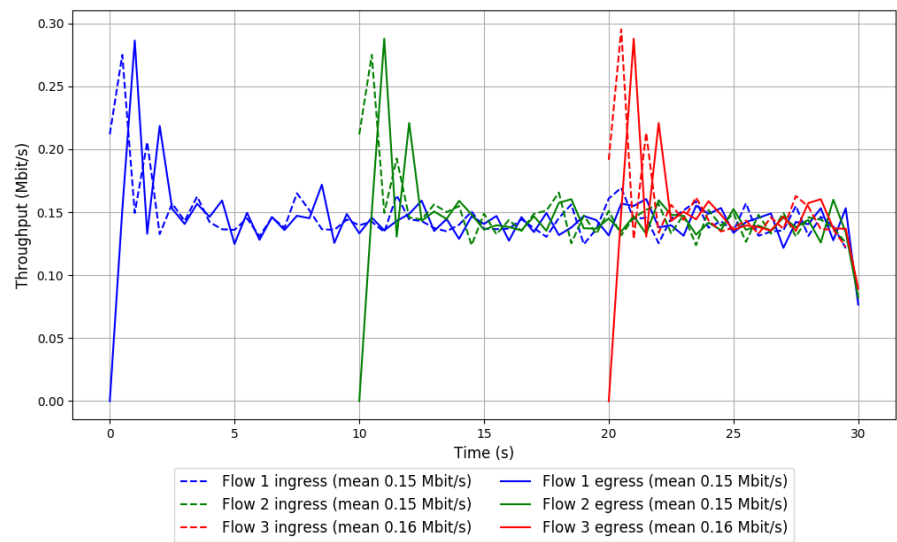


Run 1: Statistics of SCReAM

Start at: 2019-08-27 09:12:16  
End at: 2019-08-27 09:12:46  
Local clock offset: -0.329 ms  
Remote clock offset: -0.214 ms

# Below is generated by plot.py at 2019-08-27 14:45:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.30 Mbit/s  
95th percentile per-packet one-way delay: 133.166 ms  
Loss rate: 1.27%  
-- Flow 1:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 133.093 ms  
Loss rate: 0.88%  
-- Flow 2:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 133.199 ms  
Loss rate: 1.39%  
-- Flow 3:  
Average throughput: 0.16 Mbit/s  
95th percentile per-packet one-way delay: 133.152 ms  
Loss rate: 2.12%

Run 1: Report of SReAM — Data Link

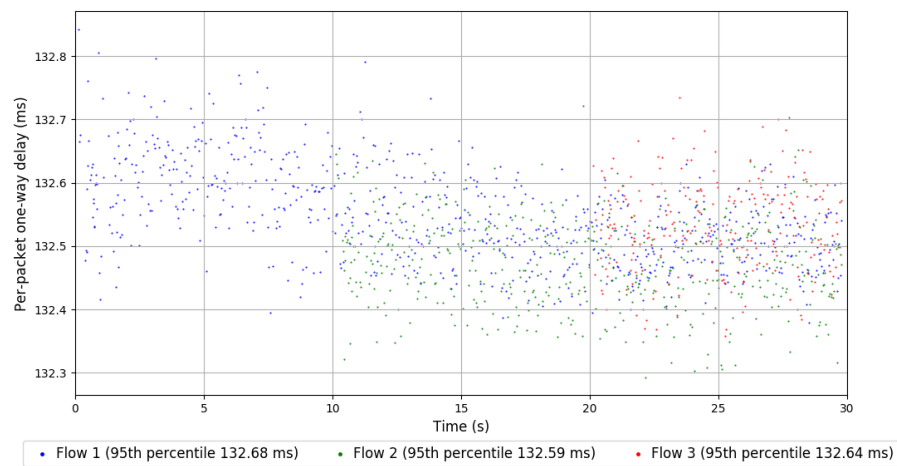
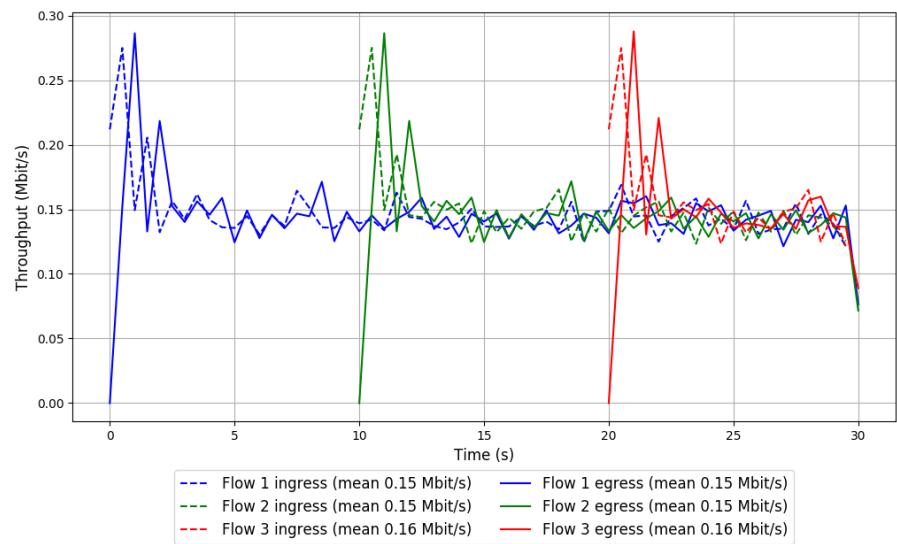


Run 2: Statistics of SReAM

Start at: 2019-08-27 09:55:30  
End at: 2019-08-27 09:56:00  
Local clock offset: -0.37 ms  
Remote clock offset: -0.121 ms

# Below is generated by plot.py at 2019-08-27 14:45:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.30 Mbit/s  
95th percentile per-packet one-way delay: 132.659 ms  
Loss rate: 1.32%  
-- Flow 1:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 132.678 ms  
Loss rate: 0.88%  
-- Flow 2:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 132.586 ms  
Loss rate: 1.39%  
-- Flow 3:  
Average throughput: 0.16 Mbit/s  
95th percentile per-packet one-way delay: 132.641 ms  
Loss rate: 2.44%

Run 2: Report of SReAM — Data Link

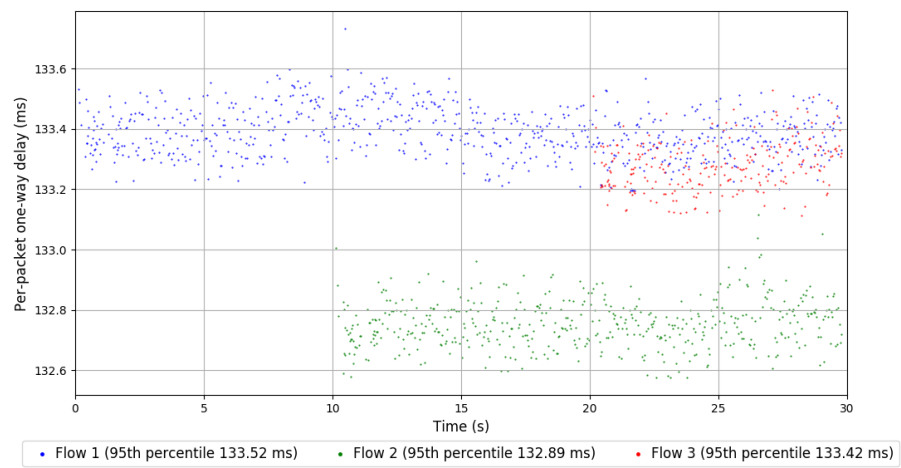
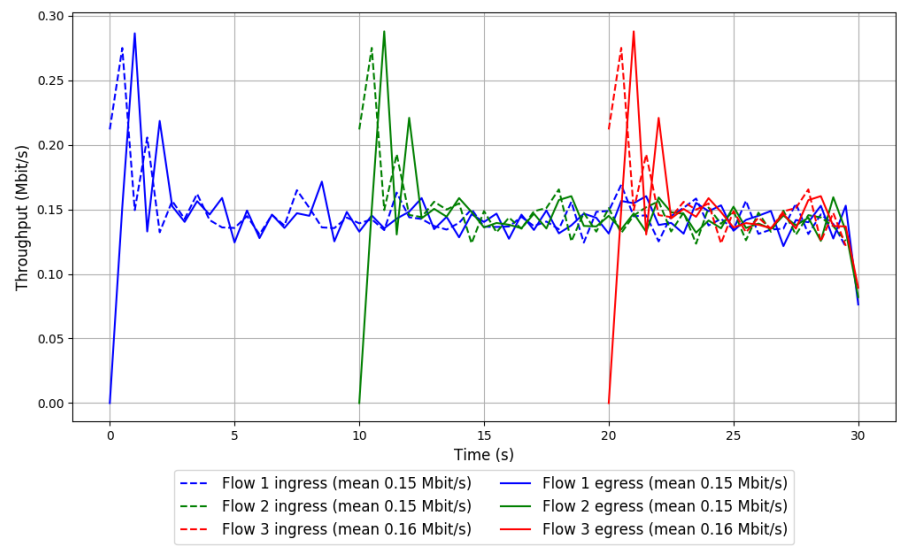


Run 3: Statistics of SReAM

Start at: 2019-08-27 10:39:03  
End at: 2019-08-27 10:39:33  
Local clock offset: 0.575 ms  
Remote clock offset: -0.183 ms

# Below is generated by plot.py at 2019-08-27 14:45:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.30 Mbit/s  
95th percentile per-packet one-way delay: 133.499 ms  
Loss rate: 1.32%  
-- Flow 1:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 133.521 ms  
Loss rate: 0.88%  
-- Flow 2:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 132.887 ms  
Loss rate: 1.39%  
-- Flow 3:  
Average throughput: 0.16 Mbit/s  
95th percentile per-packet one-way delay: 133.422 ms  
Loss rate: 2.44%

Run 3: Report of SReAM — Data Link



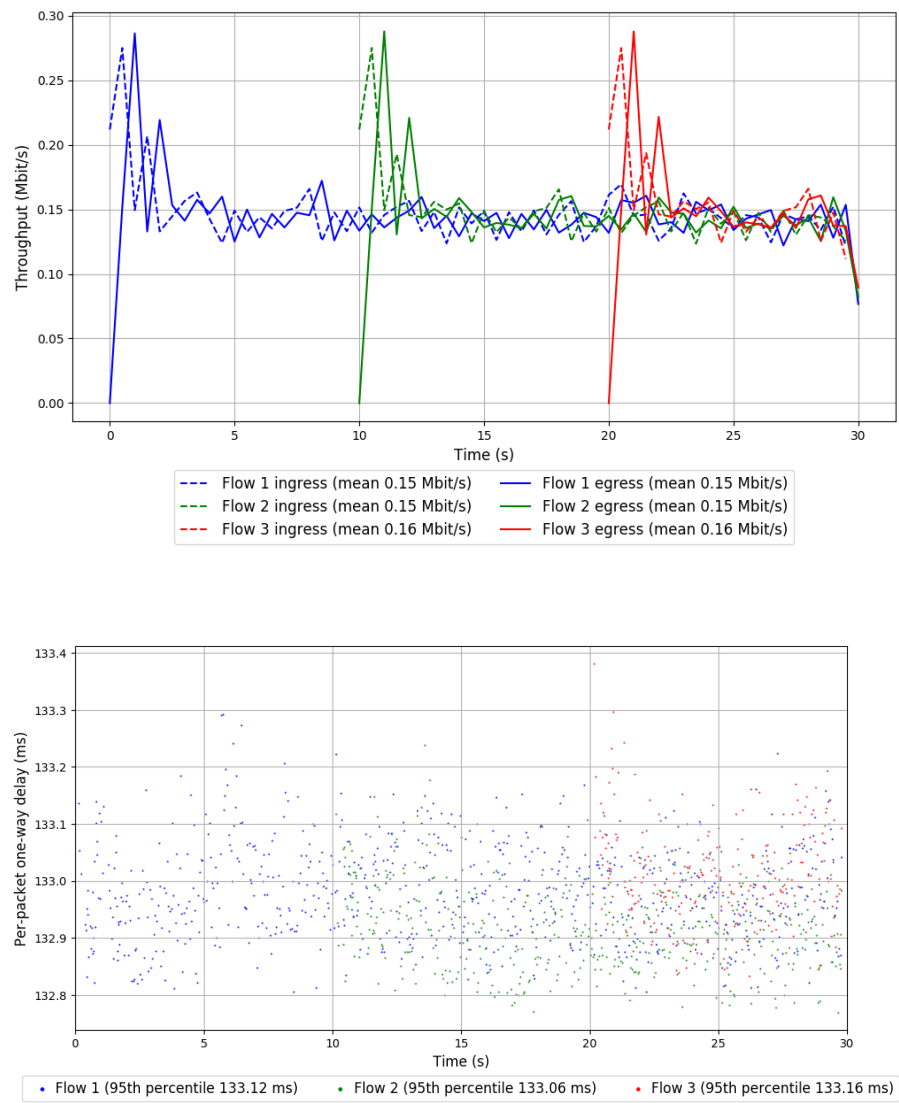


Run 4: Statistics of SCReAM

Start at: 2019-08-27 11:22:44  
End at: 2019-08-27 11:23:14  
Local clock offset: -0.321 ms  
Remote clock offset: -0.338 ms

# Below is generated by plot.py at 2019-08-27 14:45:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.30 Mbit/s  
95th percentile per-packet one-way delay: 133.118 ms  
Loss rate: 1.26%  
-- Flow 1:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 133.124 ms  
Loss rate: 0.88%  
-- Flow 2:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 133.056 ms  
Loss rate: 1.39%  
-- Flow 3:  
Average throughput: 0.16 Mbit/s  
95th percentile per-packet one-way delay: 133.162 ms  
Loss rate: 2.12%

Run 4: Report of SReAM — Data Link

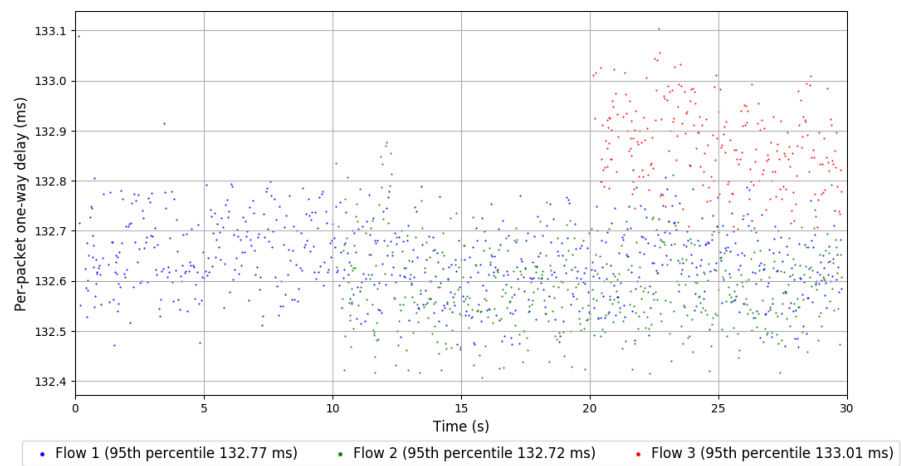
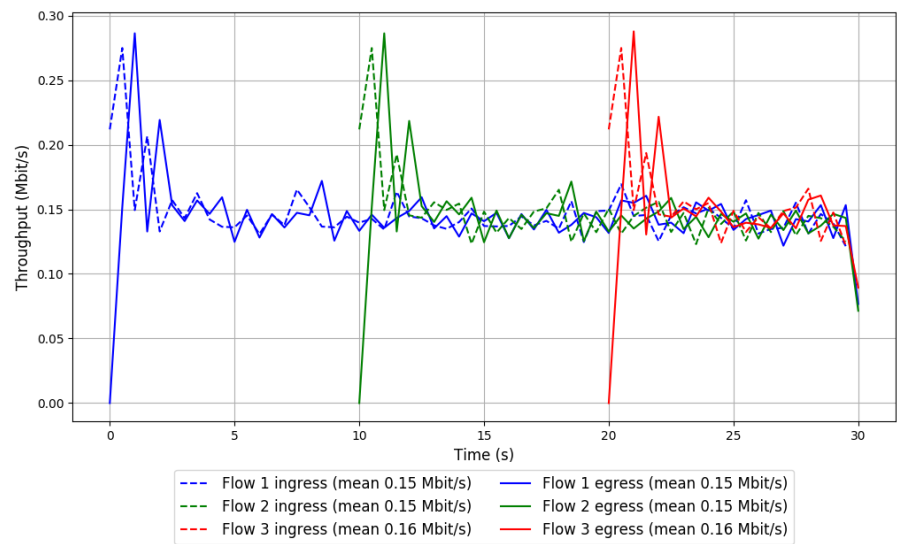


Run 5: Statistics of SCReAM

Start at: 2019-08-27 12:06:06  
End at: 2019-08-27 12:06:36  
Local clock offset: -0.435 ms  
Remote clock offset: -0.347 ms

# Below is generated by plot.py at 2019-08-27 14:45:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.30 Mbit/s  
95th percentile per-packet one-way delay: 132.918 ms  
Loss rate: 1.32%  
-- Flow 1:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 132.769 ms  
Loss rate: 0.88%  
-- Flow 2:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 132.724 ms  
Loss rate: 1.39%  
-- Flow 3:  
Average throughput: 0.16 Mbit/s  
95th percentile per-packet one-way delay: 133.009 ms  
Loss rate: 2.45%

Run 5: Report of SReAM — Data Link

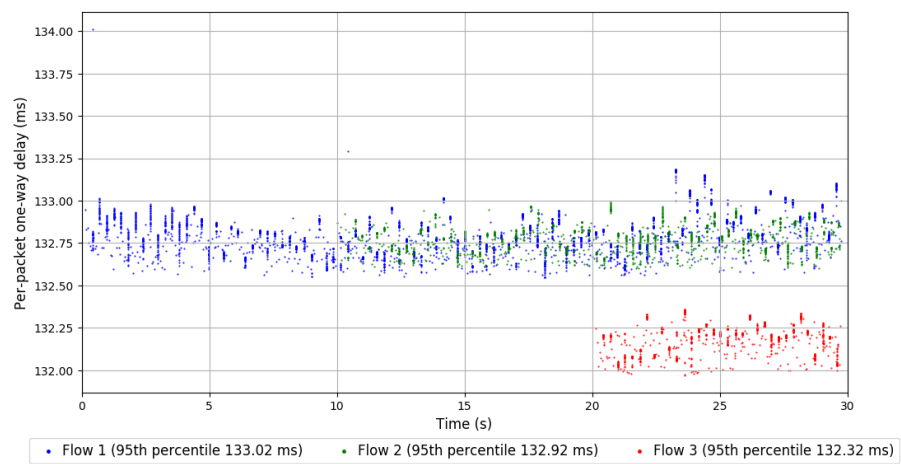
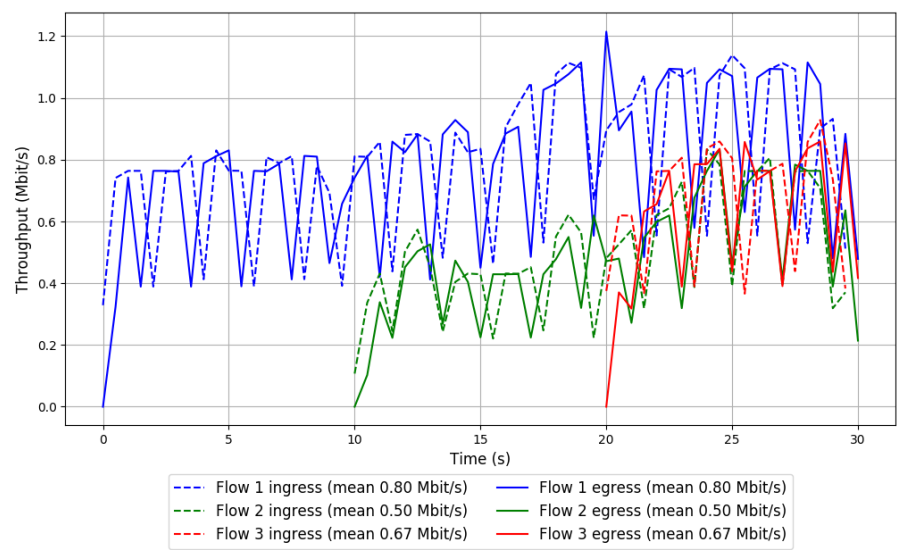


Run 1: Statistics of Sprout

Start at: 2019-08-27 09:17:27  
End at: 2019-08-27 09:17:57  
Local clock offset: -0.563 ms  
Remote clock offset: -0.197 ms

# Below is generated by plot.py at 2019-08-27 14:45:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1.35 Mbit/s  
95th percentile per-packet one-way delay: 132.987 ms  
Loss rate: 1.25%  
-- Flow 1:  
Average throughput: 0.80 Mbit/s  
95th percentile per-packet one-way delay: 133.020 ms  
Loss rate: 1.06%  
-- Flow 2:  
Average throughput: 0.50 Mbit/s  
95th percentile per-packet one-way delay: 132.922 ms  
Loss rate: 0.81%  
-- Flow 3:  
Average throughput: 0.67 Mbit/s  
95th percentile per-packet one-way delay: 132.316 ms  
Loss rate: 2.61%

Run 1: Report of Sprout — Data Link

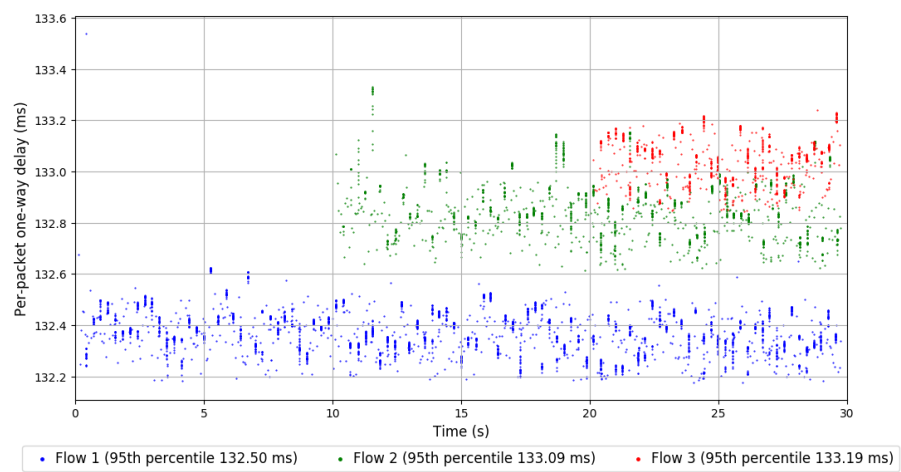
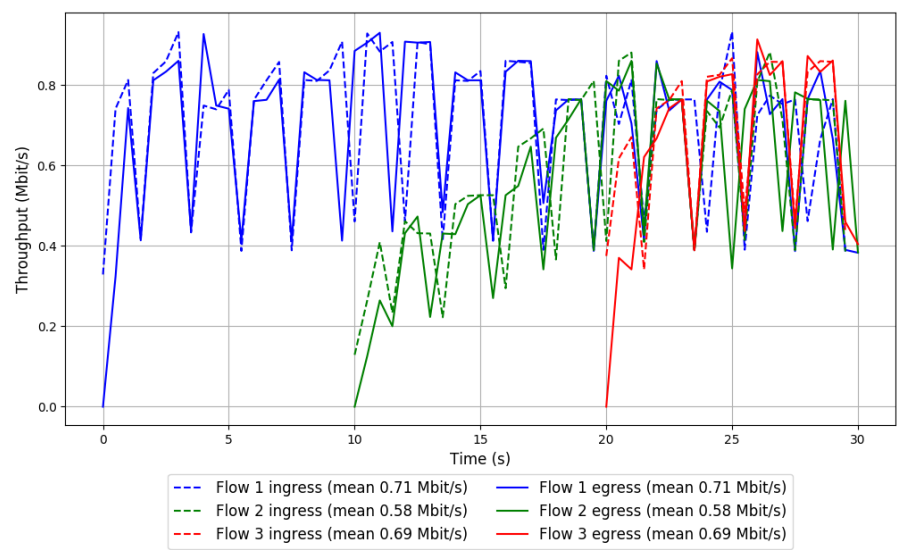


Run 2: Statistics of Sprout

Start at: 2019-08-27 10:00:56  
End at: 2019-08-27 10:01:26  
Local clock offset: -0.052 ms  
Remote clock offset: -0.134 ms

# Below is generated by plot.py at 2019-08-27 14:45:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1.31 Mbit/s  
95th percentile per-packet one-way delay: 133.114 ms  
Loss rate: 1.51%  
-- Flow 1:  
Average throughput: 0.71 Mbit/s  
95th percentile per-packet one-way delay: 132.501 ms  
Loss rate: 0.90%  
-- Flow 2:  
Average throughput: 0.58 Mbit/s  
95th percentile per-packet one-way delay: 133.090 ms  
Loss rate: 1.66%  
-- Flow 3:  
Average throughput: 0.69 Mbit/s  
95th percentile per-packet one-way delay: 133.190 ms  
Loss rate: 3.15%

Run 2: Report of Sprout — Data Link



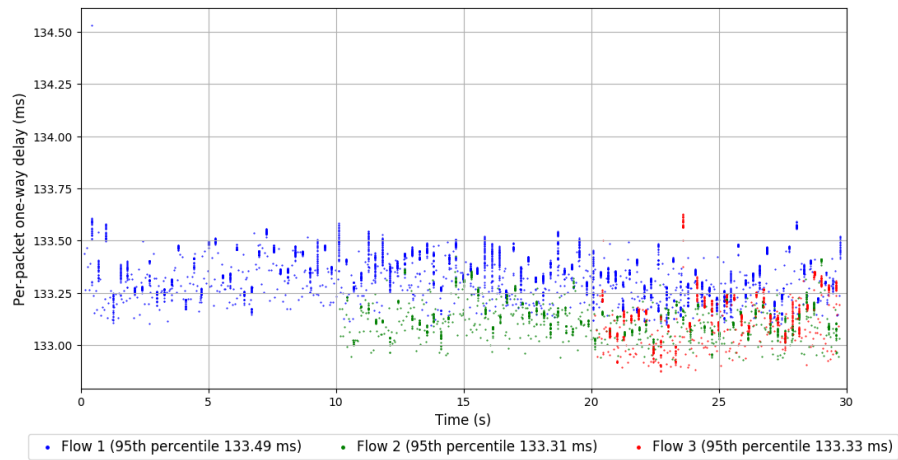
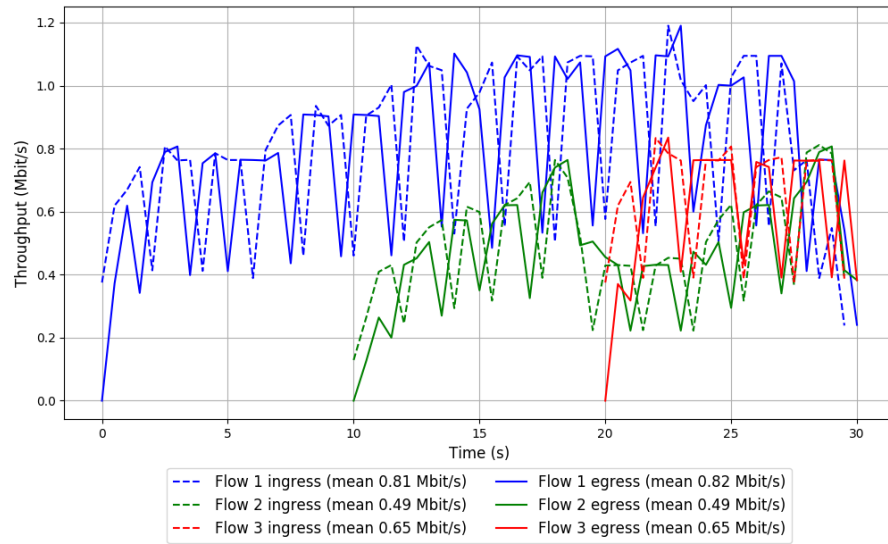


### Run 3: Statistics of Sprout

Start at: 2019-08-27 10:44:18  
End at: 2019-08-27 10:44:48  
Local clock offset: 0.396 ms  
Remote clock offset: -0.201 ms

```
# Below is generated by plot.py at 2019-08-27 14:45:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.36 Mbit/s
95th percentile per-packet one-way delay: 133.479 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 0.82 Mbit/s
95th percentile per-packet one-way delay: 133.494 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 0.49 Mbit/s
95th percentile per-packet one-way delay: 133.308 ms
Loss rate: 1.95%
-- Flow 3:
Average throughput: 0.65 Mbit/s
95th percentile per-packet one-way delay: 133.327 ms
Loss rate: 2.97%
```

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

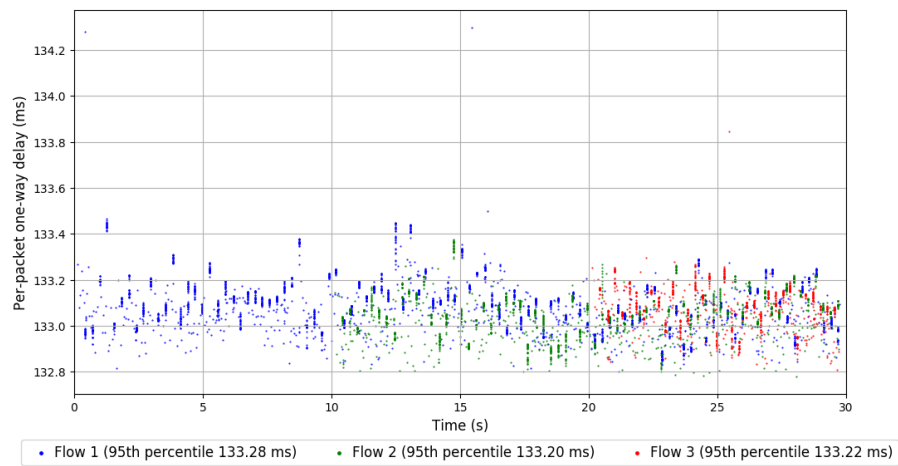
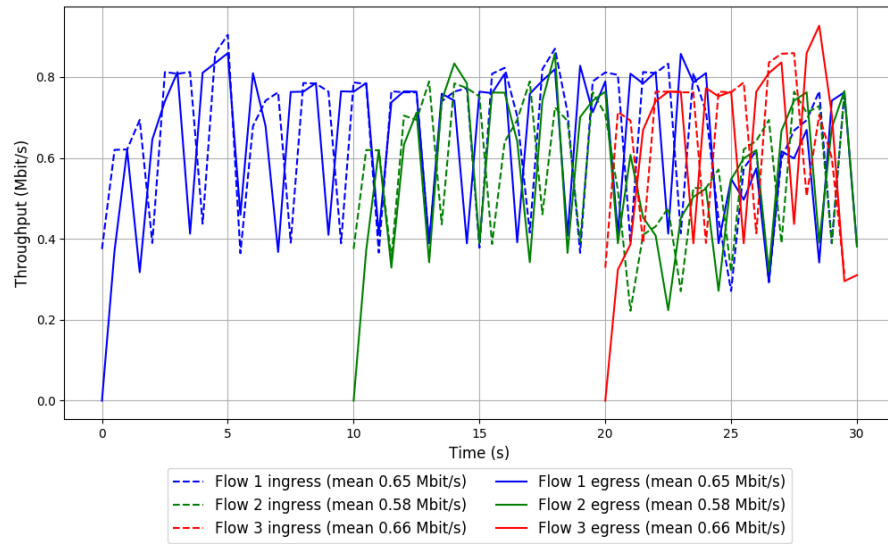


#### Run 4: Statistics of Sprout

Start at: 2019-08-27 11:28:00  
End at: 2019-08-27 11:28:30  
Local clock offset: -0.375 ms  
Remote clock offset: -0.313 ms

```
# Below is generated by plot.py at 2019-08-27 14:45:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.25 Mbit/s
95th percentile per-packet one-way delay: 133.244 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 0.65 Mbit/s
95th percentile per-packet one-way delay: 133.281 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 133.204 ms
Loss rate: 1.66%
-- Flow 3:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 133.215 ms
Loss rate: 2.40%
```

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

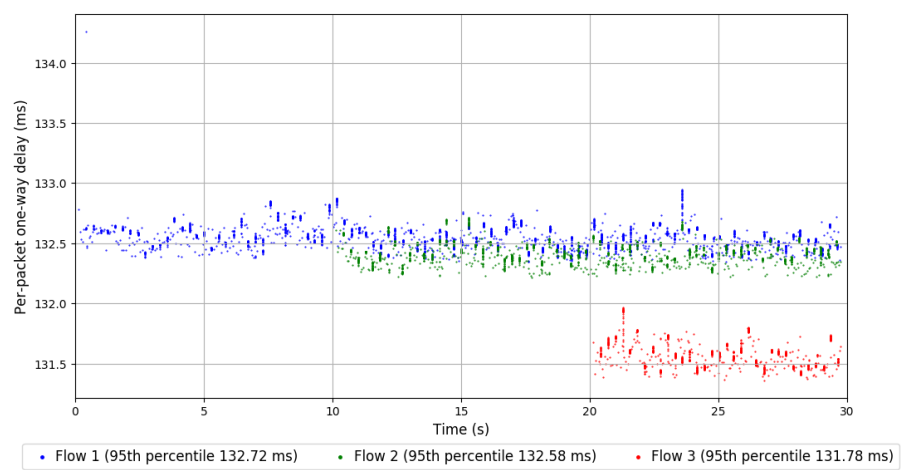
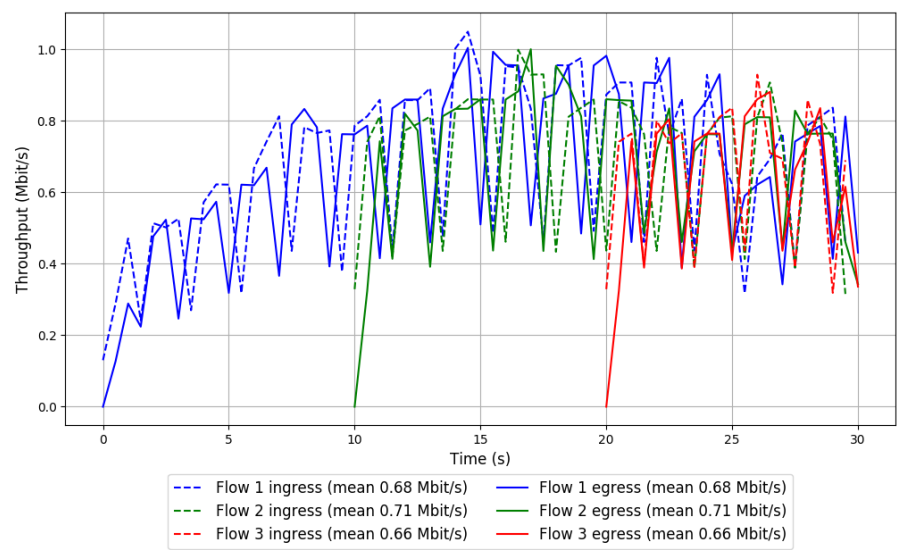


Run 5: Statistics of Sprout

Start at: 2019-08-27 12:11:25  
End at: 2019-08-27 12:11:55  
Local clock offset: -0.254 ms  
Remote clock offset: 0.088 ms

# Below is generated by plot.py at 2019-08-27 14:45:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1.36 Mbit/s  
95th percentile per-packet one-way delay: 132.675 ms  
Loss rate: 1.37%  
-- Flow 1:  
Average throughput: 0.68 Mbit/s  
95th percentile per-packet one-way delay: 132.721 ms  
Loss rate: 1.12%  
-- Flow 2:  
Average throughput: 0.71 Mbit/s  
95th percentile per-packet one-way delay: 132.578 ms  
Loss rate: 1.10%  
-- Flow 3:  
Average throughput: 0.66 Mbit/s  
95th percentile per-packet one-way delay: 131.775 ms  
Loss rate: 2.74%

Run 5: Report of Sprout — Data Link

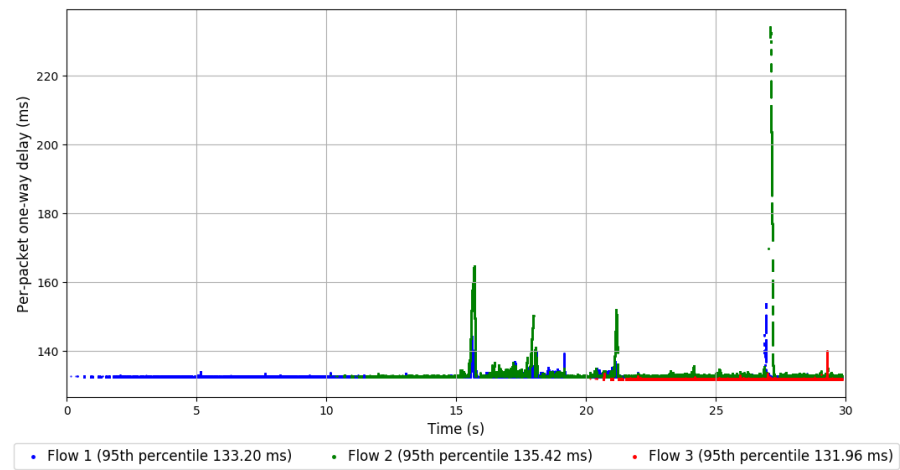
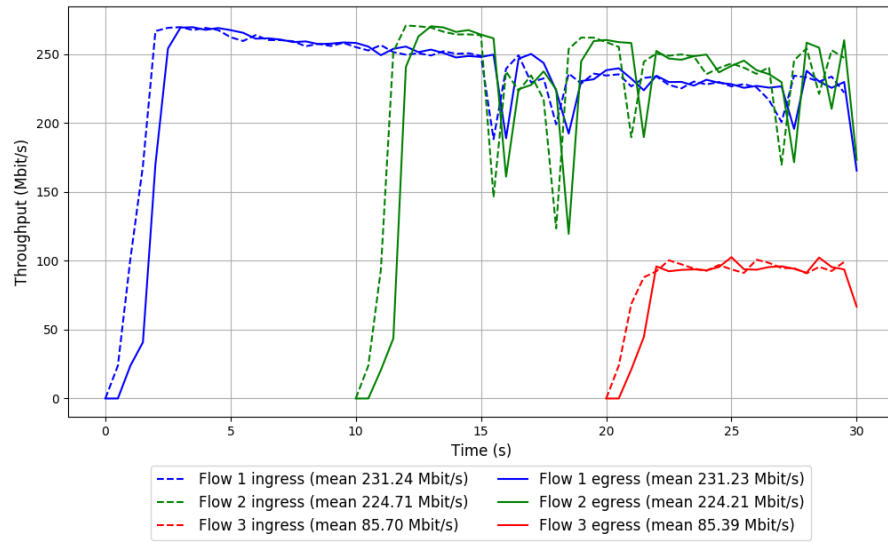


Run 1: Statistics of TaoVA-100x

Start at: 2019-08-27 09:22:30  
End at: 2019-08-27 09:23:00  
Local clock offset: -0.606 ms  
Remote clock offset: -0.129 ms

# Below is generated by plot.py at 2019-08-27 14:48:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 407.78 Mbit/s  
95th percentile per-packet one-way delay: 133.804 ms  
Loss rate: 1.27%  
-- Flow 1:  
Average throughput: 231.23 Mbit/s  
95th percentile per-packet one-way delay: 133.197 ms  
Loss rate: 0.88%  
-- Flow 2:  
Average throughput: 224.21 Mbit/s  
95th percentile per-packet one-way delay: 135.422 ms  
Loss rate: 1.54%  
-- Flow 3:  
Average throughput: 85.39 Mbit/s  
95th percentile per-packet one-way delay: 131.964 ms  
Loss rate: 3.01%

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



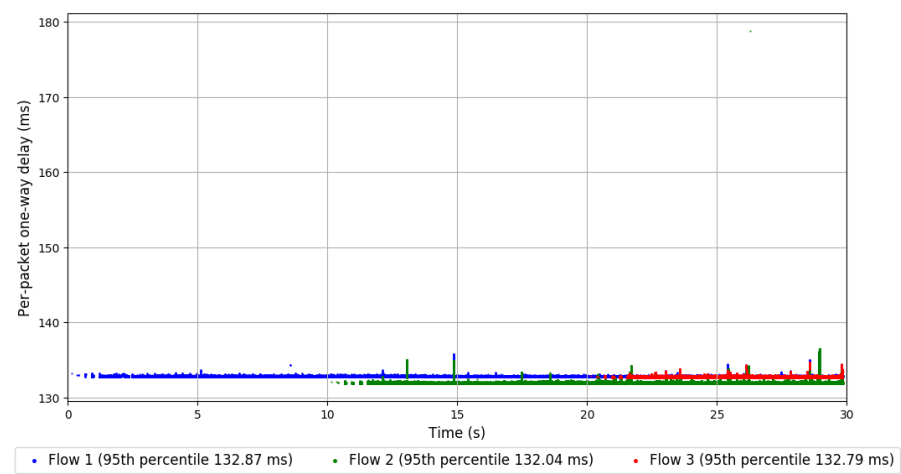
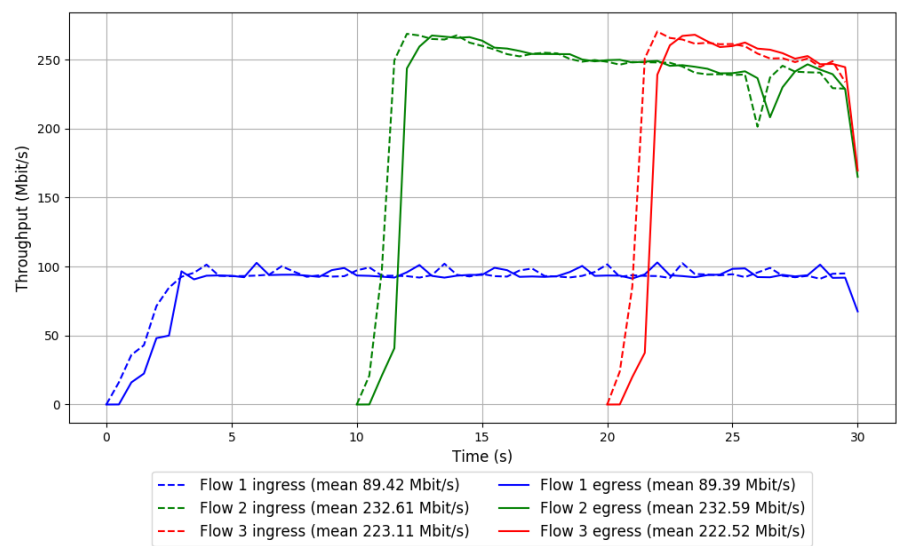


Run 2: Statistics of TaoVA-100x

Start at: 2019-08-27 10:05:56  
End at: 2019-08-27 10:06:26  
Local clock offset: 0.124 ms  
Remote clock offset: -0.139 ms

# Below is generated by plot.py at 2019-08-27 14:48:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 316.24 Mbit/s  
95th percentile per-packet one-way delay: 132.852 ms  
Loss rate: 1.61%  
-- Flow 1:  
Average throughput: 89.39 Mbit/s  
95th percentile per-packet one-way delay: 132.870 ms  
Loss rate: 0.93%  
-- Flow 2:  
Average throughput: 232.59 Mbit/s  
95th percentile per-packet one-way delay: 132.037 ms  
Loss rate: 1.35%  
-- Flow 3:  
Average throughput: 222.52 Mbit/s  
95th percentile per-packet one-way delay: 132.794 ms  
Loss rate: 2.96%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-08-27 10:49:21

End at: 2019-08-27 10:49:51

Local clock offset: 0.018 ms

Remote clock offset: -0.23 ms

# Below is generated by plot.py at 2019-08-27 14:49:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 434.04 Mbit/s

95th percentile per-packet one-way delay: 132.982 ms

Loss rate: 1.45%

-- Flow 1:

Average throughput: 211.60 Mbit/s

95th percentile per-packet one-way delay: 133.046 ms

Loss rate: 0.95%

-- Flow 2:

Average throughput: 226.80 Mbit/s

95th percentile per-packet one-way delay: 132.927 ms

Loss rate: 1.39%

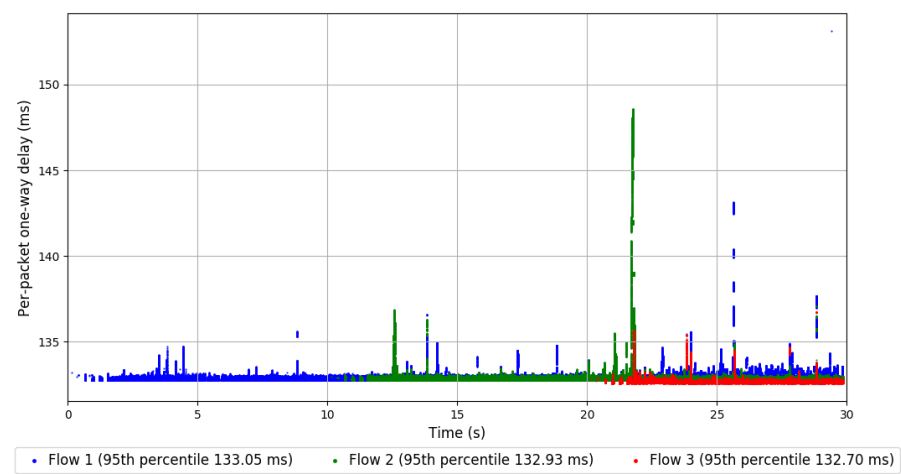
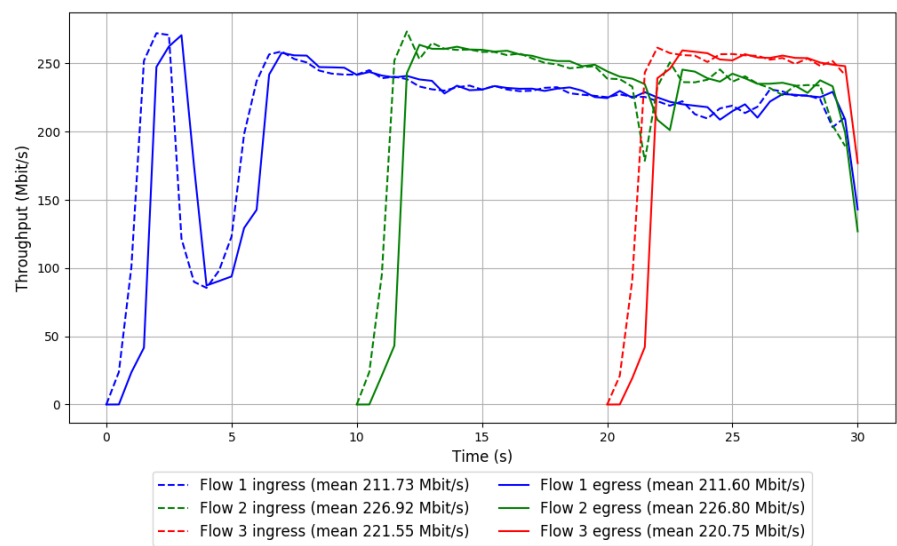
-- Flow 3:

Average throughput: 220.75 Mbit/s

95th percentile per-packet one-way delay: 132.699 ms

Loss rate: 3.02%

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

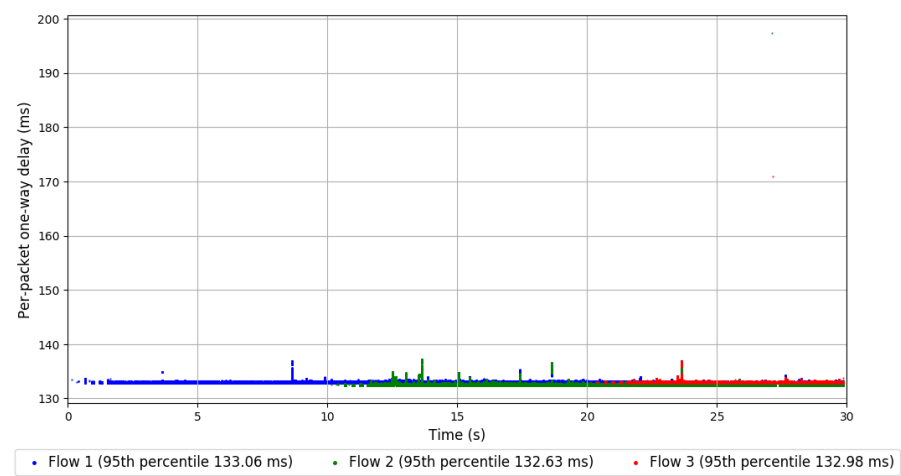
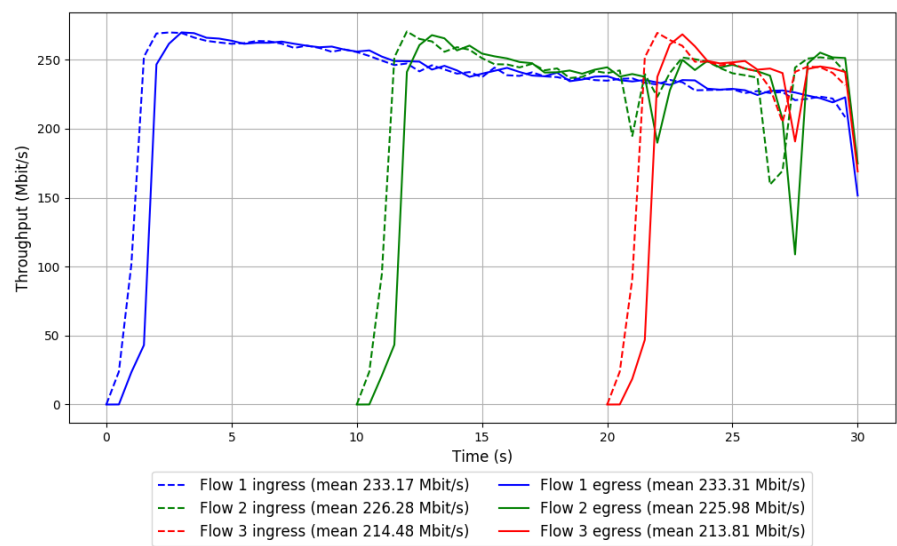


Run 4: Statistics of TaoVA-100x

Start at: 2019-08-27 11:33:06  
End at: 2019-08-27 11:33:36  
Local clock offset: -0.146 ms  
Remote clock offset: -0.326 ms

# Below is generated by plot.py at 2019-08-27 14:50:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 452.90 Mbit/s  
95th percentile per-packet one-way delay: 133.029 ms  
Loss rate: 1.38%  
-- Flow 1:  
Average throughput: 233.31 Mbit/s  
95th percentile per-packet one-way delay: 133.056 ms  
Loss rate: 0.83%  
-- Flow 2:  
Average throughput: 225.98 Mbit/s  
95th percentile per-packet one-way delay: 132.626 ms  
Loss rate: 1.46%  
-- Flow 3:  
Average throughput: 213.81 Mbit/s  
95th percentile per-packet one-way delay: 132.980 ms  
Loss rate: 2.98%

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

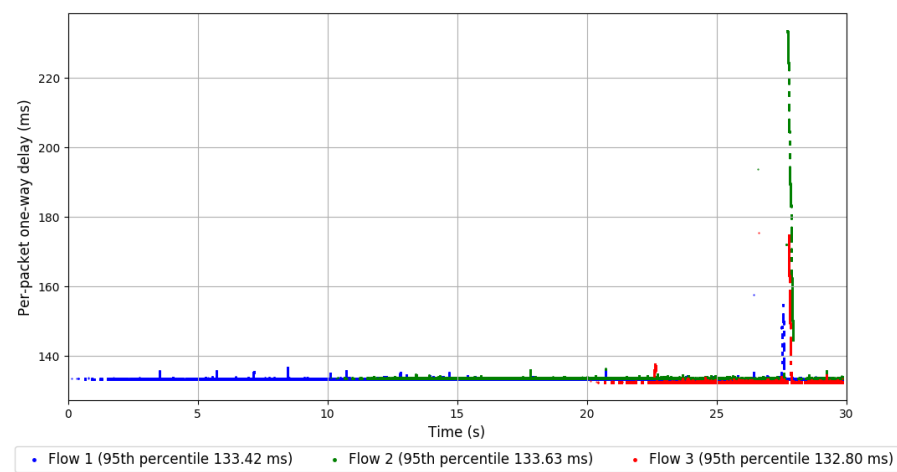
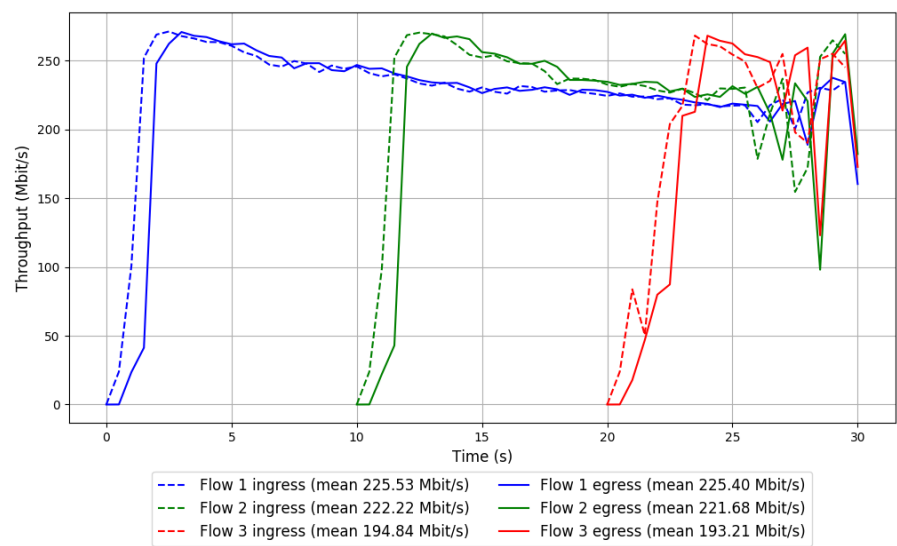


Run 5: Statistics of TaoVA-100x

Start at: 2019-08-27 12:16:24  
End at: 2019-08-27 12:16:54  
Local clock offset: 0.428 ms  
Remote clock offset: -0.323 ms

# Below is generated by plot.py at 2019-08-27 14:51:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 435.40 Mbit/s  
95th percentile per-packet one-way delay: 133.550 ms  
Loss rate: 1.53%  
-- Flow 1:  
Average throughput: 225.40 Mbit/s  
95th percentile per-packet one-way delay: 133.420 ms  
Loss rate: 0.95%  
-- Flow 2:  
Average throughput: 221.68 Mbit/s  
95th percentile per-packet one-way delay: 133.631 ms  
Loss rate: 1.58%  
-- Flow 3:  
Average throughput: 193.21 Mbit/s  
95th percentile per-packet one-way delay: 132.798 ms  
Loss rate: 3.48%

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



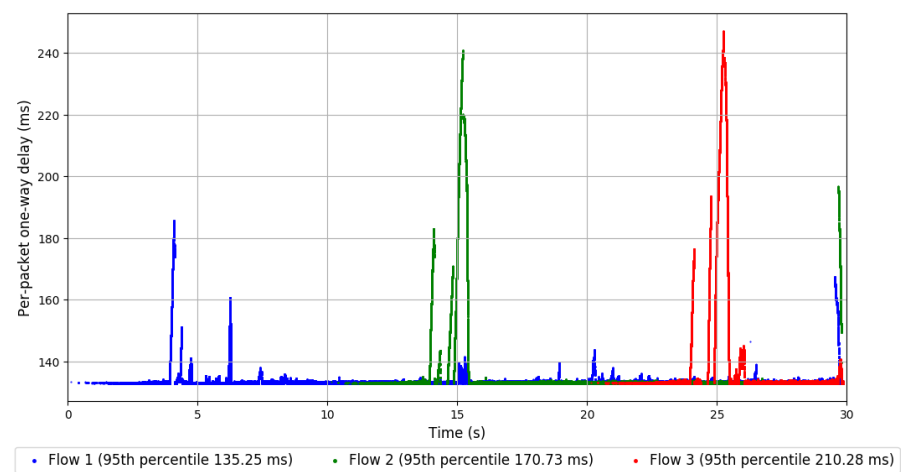
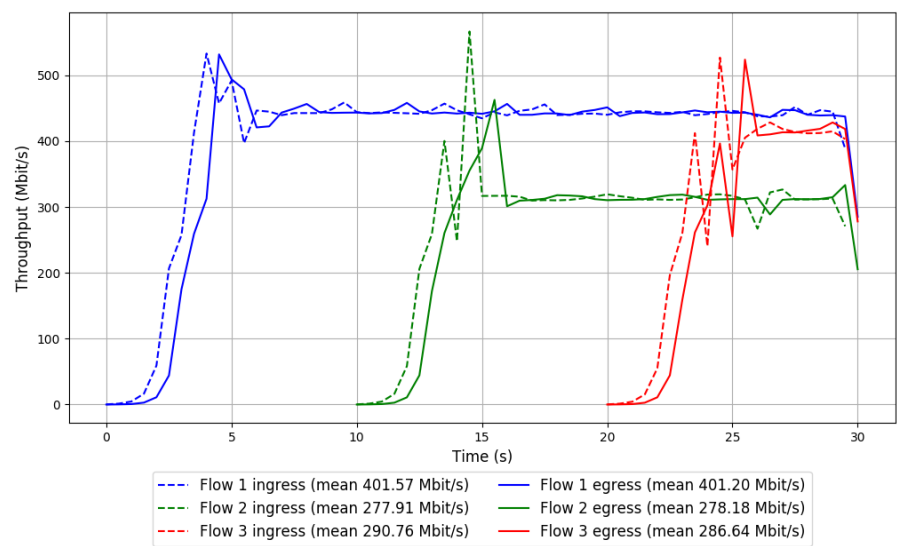


Run 1: Statistics of TCP Vegas

Start at: 2019-08-27 09:03:11  
End at: 2019-08-27 09:03:41  
Local clock offset: -0.135 ms  
Remote clock offset: -0.148 ms

# Below is generated by plot.py at 2019-08-27 14:51:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 679.22 Mbit/s  
95th percentile per-packet one-way delay: 150.281 ms  
Loss rate: 1.48%  
-- Flow 1:  
Average throughput: 401.20 Mbit/s  
95th percentile per-packet one-way delay: 135.253 ms  
Loss rate: 0.98%  
-- Flow 2:  
Average throughput: 278.18 Mbit/s  
95th percentile per-packet one-way delay: 170.731 ms  
Loss rate: 1.24%  
-- Flow 3:  
Average throughput: 286.64 Mbit/s  
95th percentile per-packet one-way delay: 210.282 ms  
Loss rate: 4.04%

Run 1: Report of TCP Vegas — Data Link

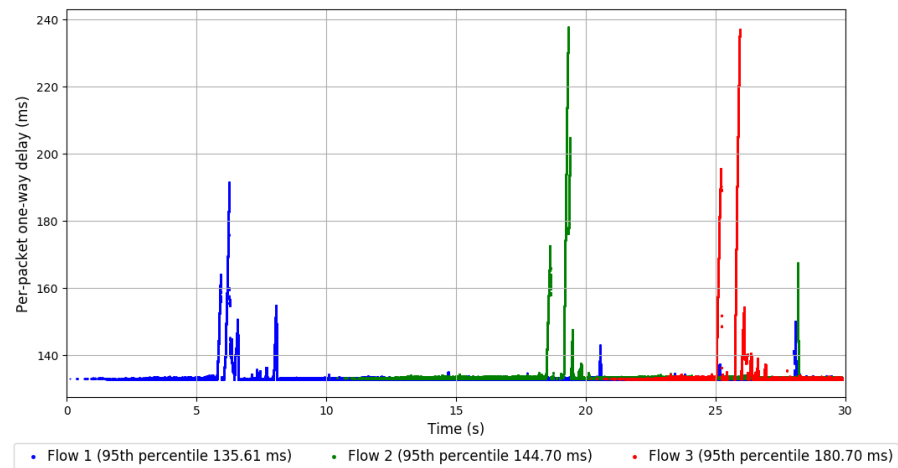
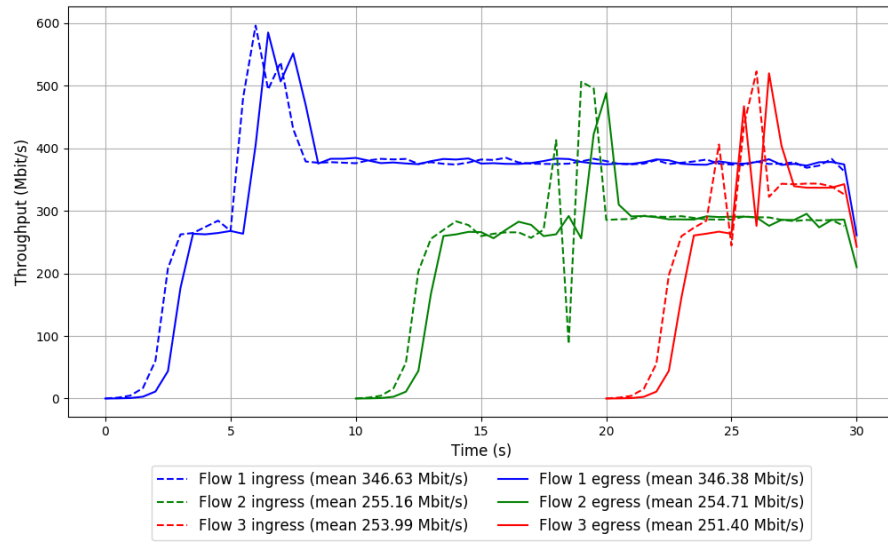


Run 2: Statistics of TCP Vegas

Start at: 2019-08-27 09:46:42  
End at: 2019-08-27 09:47:12  
Local clock offset: 0.06 ms  
Remote clock offset: -0.146 ms

# Below is generated by plot.py at 2019-08-27 14:52:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 597.37 Mbit/s  
95th percentile per-packet one-way delay: 140.342 ms  
Loss rate: 1.49%  
-- Flow 1:  
Average throughput: 346.38 Mbit/s  
95th percentile per-packet one-way delay: 135.613 ms  
Loss rate: 0.96%  
-- Flow 2:  
Average throughput: 254.71 Mbit/s  
95th percentile per-packet one-way delay: 144.704 ms  
Loss rate: 1.51%  
-- Flow 3:  
Average throughput: 251.40 Mbit/s  
95th percentile per-packet one-way delay: 180.704 ms  
Loss rate: 3.66%

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



Run 3: Statistics of TCP Vegas

Start at: 2019-08-27 10:30:04

End at: 2019-08-27 10:30:34

Local clock offset: -0.122 ms

Remote clock offset: 0.234 ms

# Below is generated by plot.py at 2019-08-27 14:54:06

# Datalink statistics

-- Total of 3 flows:

Average throughput: 559.33 Mbit/s

95th percentile per-packet one-way delay: 162.643 ms

Loss rate: 1.38%

-- Flow 1:

Average throughput: 220.98 Mbit/s

95th percentile per-packet one-way delay: 170.722 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 394.46 Mbit/s

95th percentile per-packet one-way delay: 162.265 ms

Loss rate: 1.25%

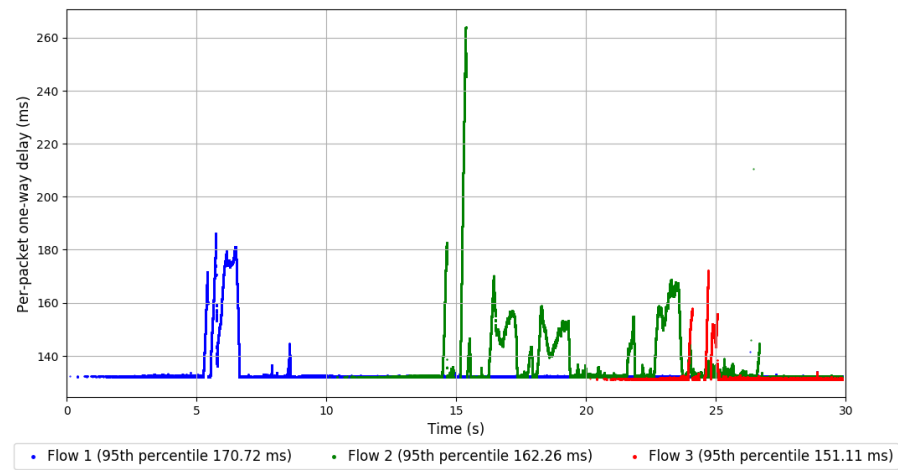
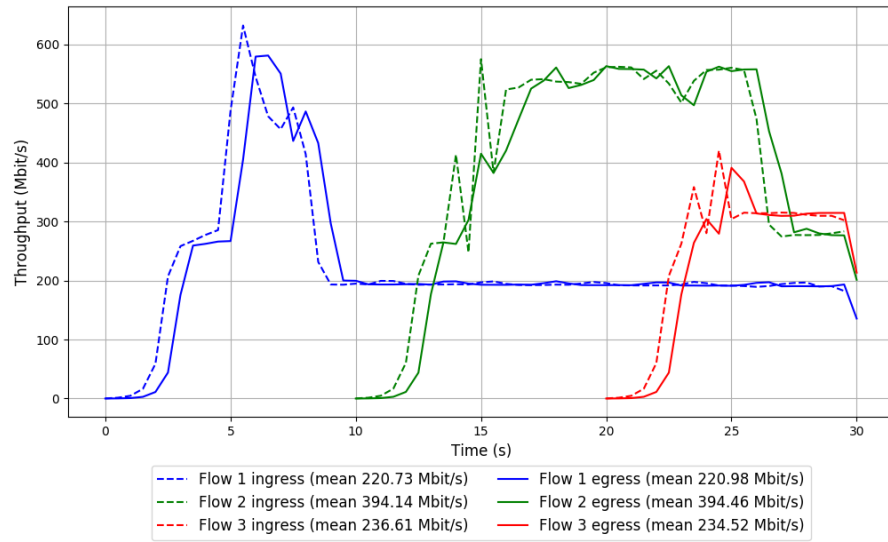
-- Flow 3:

Average throughput: 234.52 Mbit/s

95th percentile per-packet one-way delay: 151.113 ms

Loss rate: 3.51%

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



Run 4: Statistics of TCP Vegas

Start at: 2019-08-27 11:13:34

End at: 2019-08-27 11:14:04

Local clock offset: -0.204 ms

Remote clock offset: -0.45 ms

# Below is generated by plot.py at 2019-08-27 14:58:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 761.79 Mbit/s

95th percentile per-packet one-way delay: 175.468 ms

Loss rate: 1.12%

-- Flow 1:

Average throughput: 436.76 Mbit/s

95th percentile per-packet one-way delay: 177.199 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 360.65 Mbit/s

95th percentile per-packet one-way delay: 144.407 ms

Loss rate: 0.90%

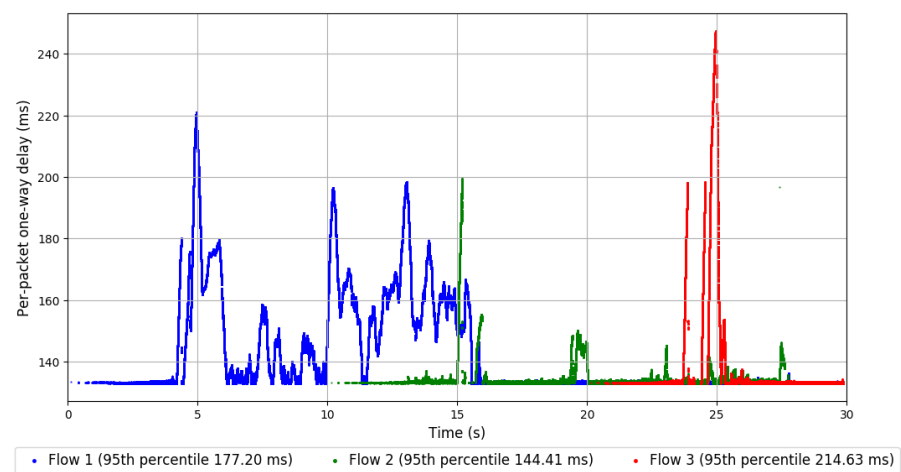
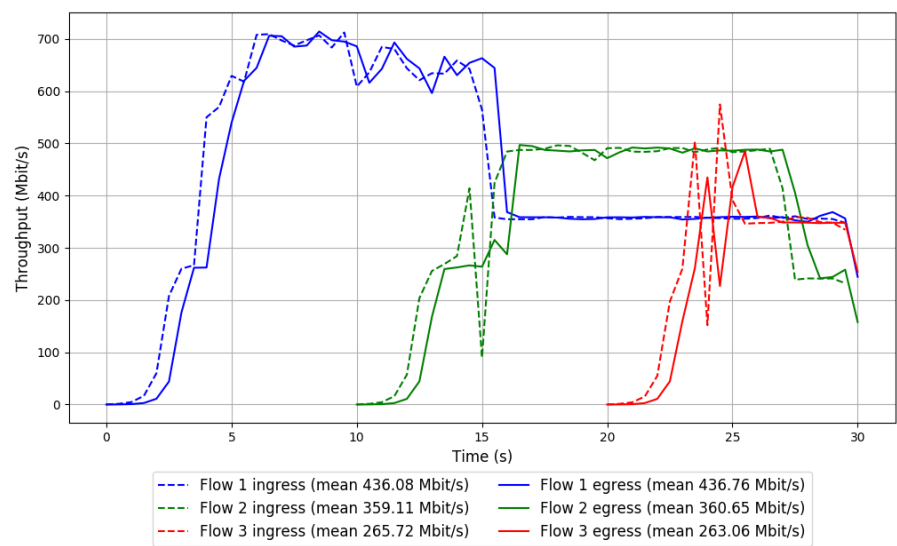
-- Flow 3:

Average throughput: 263.06 Mbit/s

95th percentile per-packet one-way delay: 214.634 ms

Loss rate: 3.65%

Run 4: Report of TCP Vegas — Data Link



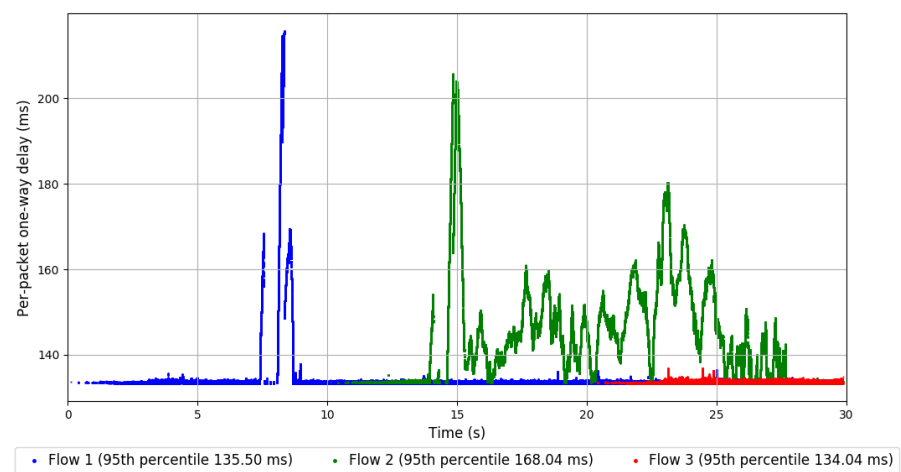
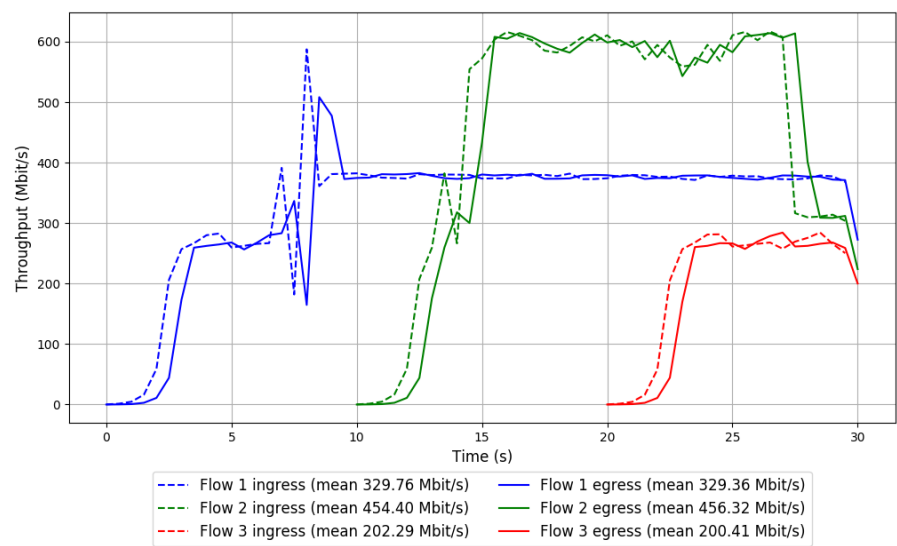


Run 5: Statistics of TCP Vegas

Start at: 2019-08-27 11:57:01  
End at: 2019-08-27 11:57:31  
Local clock offset: 0.325 ms  
Remote clock offset: -0.309 ms

# Below is generated by plot.py at 2019-08-27 14:59:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 697.51 Mbit/s  
95th percentile per-packet one-way delay: 160.008 ms  
Loss rate: 1.21%  
-- Flow 1:  
Average throughput: 329.36 Mbit/s  
95th percentile per-packet one-way delay: 135.497 ms  
Loss rate: 1.01%  
-- Flow 2:  
Average throughput: 456.32 Mbit/s  
95th percentile per-packet one-way delay: 168.039 ms  
Loss rate: 0.91%  
-- Flow 3:  
Average throughput: 200.41 Mbit/s  
95th percentile per-packet one-way delay: 134.044 ms  
Loss rate: 3.53%

Run 5: Report of TCP Vegas — Data Link

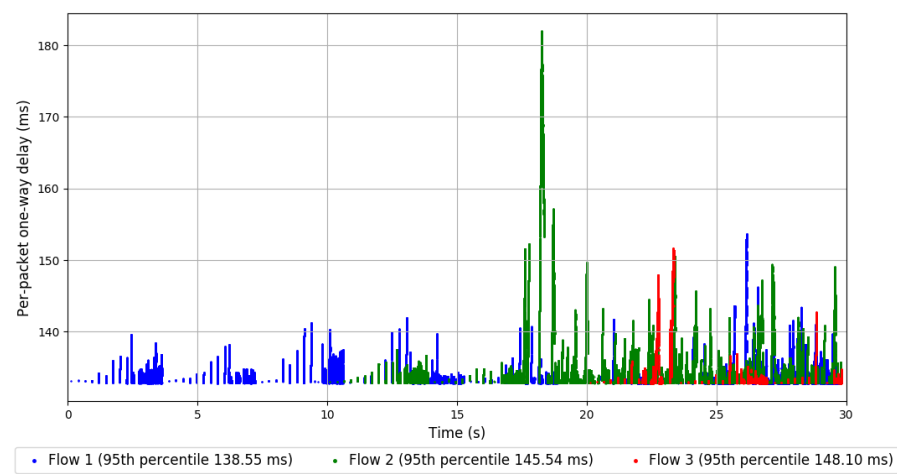
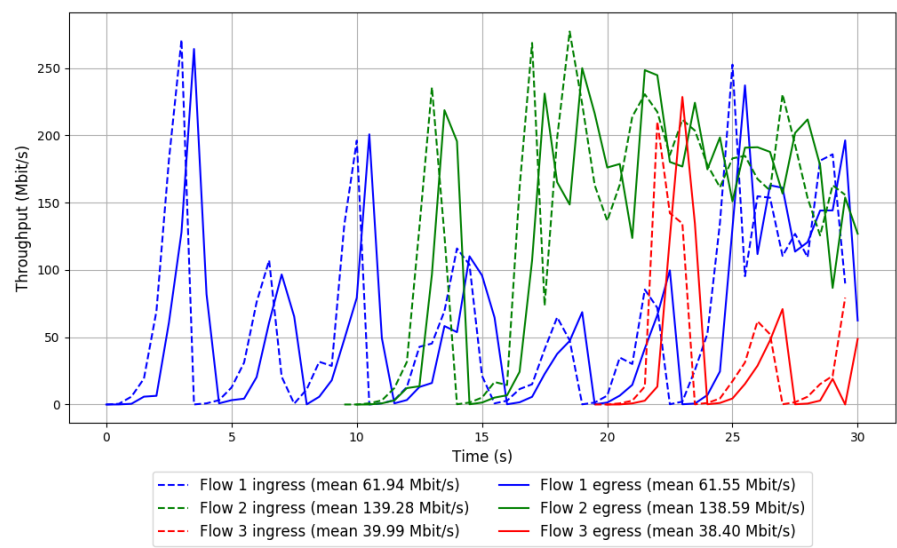


Run 1: Statistics of Verus

Start at: 2019-08-27 09:24:29  
End at: 2019-08-27 09:24:59  
Local clock offset: -0.271 ms  
Remote clock offset: -0.152 ms

# Below is generated by plot.py at 2019-08-27 14:59:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 166.07 Mbit/s  
95th percentile per-packet one-way delay: 142.935 ms  
Loss rate: 2.10%  
-- Flow 1:  
Average throughput: 61.55 Mbit/s  
95th percentile per-packet one-way delay: 138.551 ms  
Loss rate: 1.56%  
-- Flow 2:  
Average throughput: 138.59 Mbit/s  
95th percentile per-packet one-way delay: 145.544 ms  
Loss rate: 1.82%  
-- Flow 3:  
Average throughput: 38.40 Mbit/s  
95th percentile per-packet one-way delay: 148.096 ms  
Loss rate: 6.52%

Run 1: Report of Verus — Data Link

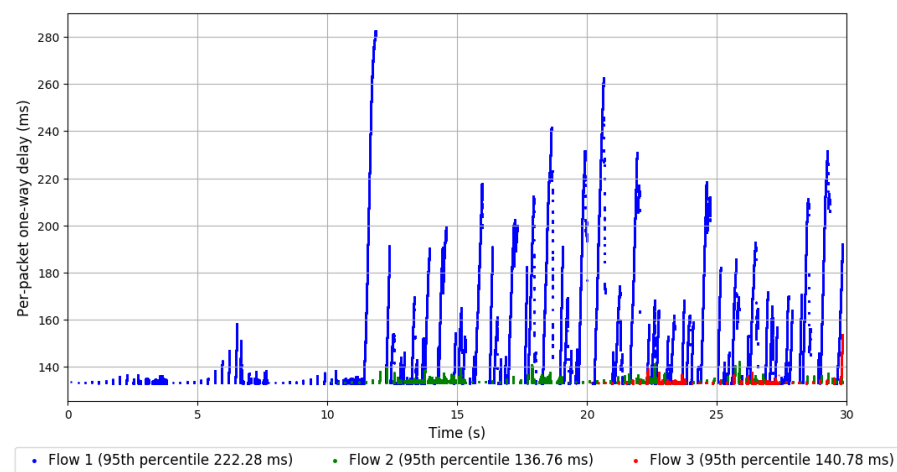
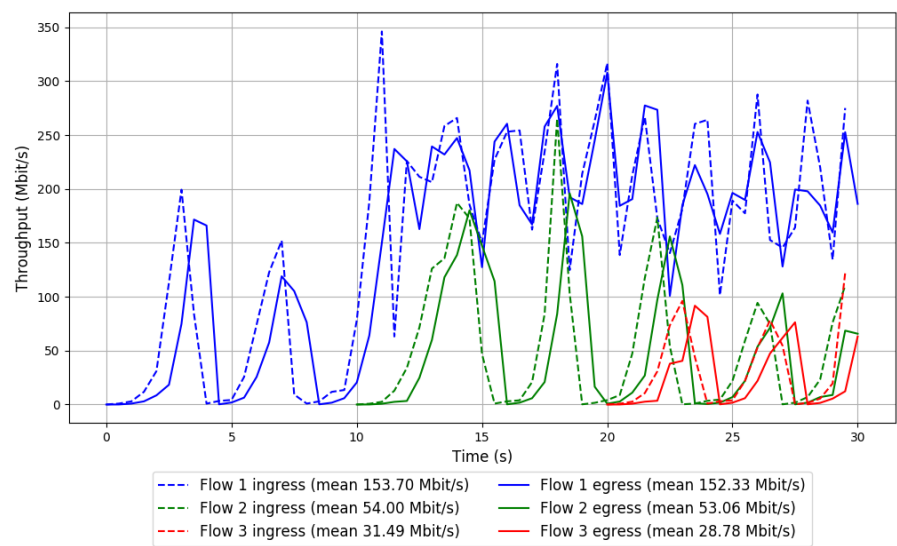


Run 2: Statistics of Verus

Start at: 2019-08-27 10:07:47  
End at: 2019-08-27 10:08:17  
Local clock offset: 0.579 ms  
Remote clock offset: -0.139 ms

# Below is generated by plot.py at 2019-08-27 14:59:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 196.86 Mbit/s  
95th percentile per-packet one-way delay: 216.893 ms  
Loss rate: 2.19%  
-- Flow 1:  
Average throughput: 152.33 Mbit/s  
95th percentile per-packet one-way delay: 222.285 ms  
Loss rate: 1.40%  
-- Flow 2:  
Average throughput: 53.06 Mbit/s  
95th percentile per-packet one-way delay: 136.765 ms  
Loss rate: 3.08%  
-- Flow 3:  
Average throughput: 28.78 Mbit/s  
95th percentile per-packet one-way delay: 140.775 ms  
Loss rate: 10.65%

Run 2: Report of Verus — Data Link

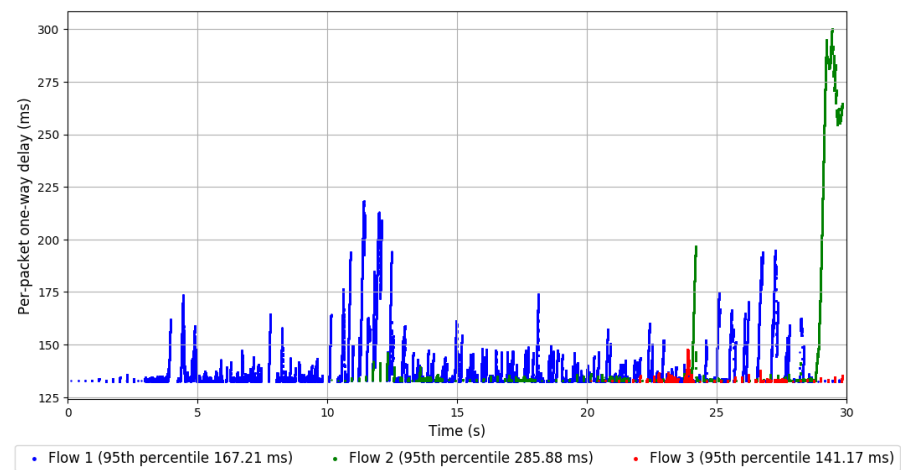
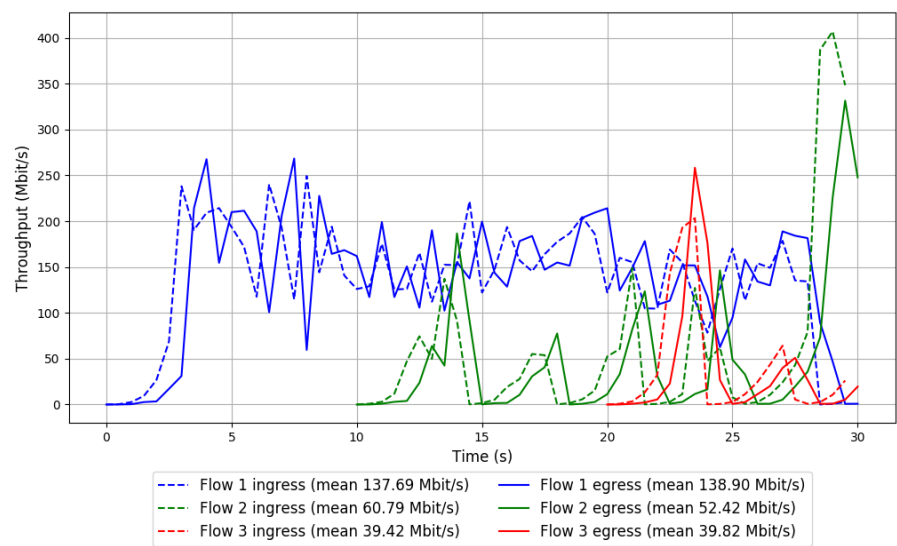


Run 3: Statistics of Verus

Start at: 2019-08-27 10:51:23  
End at: 2019-08-27 10:51:53  
Local clock offset: -0.336 ms  
Remote clock offset: -0.284 ms

# Below is generated by plot.py at 2019-08-27 14:59:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 185.99 Mbit/s  
95th percentile per-packet one-way delay: 211.366 ms  
Loss rate: 3.30%  
-- Flow 1:  
Average throughput: 138.90 Mbit/s  
95th percentile per-packet one-way delay: 167.205 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 52.42 Mbit/s  
95th percentile per-packet one-way delay: 285.877 ms  
Loss rate: 14.92%  
-- Flow 3:  
Average throughput: 39.82 Mbit/s  
95th percentile per-packet one-way delay: 141.172 ms  
Loss rate: 1.74%

Run 3: Report of Verus — Data Link



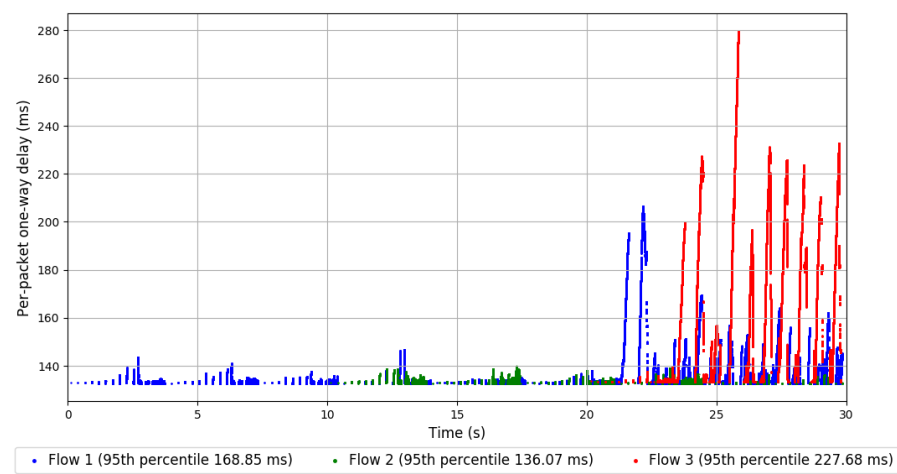
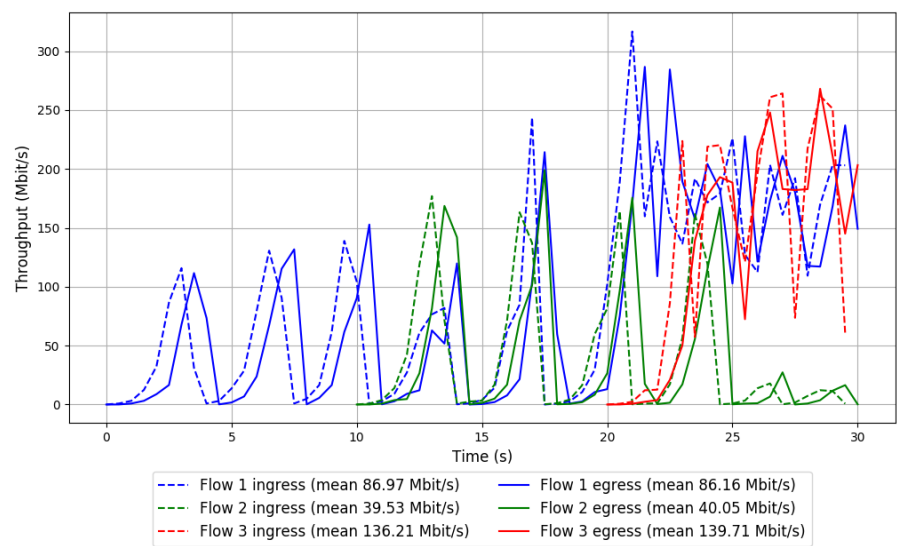


Run 4: Statistics of Verus

Start at: 2019-08-27 11:35:10  
End at: 2019-08-27 11:35:40  
Local clock offset: 0.137 ms  
Remote clock offset: -0.28 ms

# Below is generated by plot.py at 2019-08-27 14:59:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 157.95 Mbit/s  
95th percentile per-packet one-way delay: 208.068 ms  
Loss rate: 1.15%  
-- Flow 1:  
Average throughput: 86.16 Mbit/s  
95th percentile per-packet one-way delay: 168.849 ms  
Loss rate: 1.70%  
-- Flow 2:  
Average throughput: 40.05 Mbit/s  
95th percentile per-packet one-way delay: 136.069 ms  
Loss rate: 0.04%  
-- Flow 3:  
Average throughput: 139.71 Mbit/s  
95th percentile per-packet one-way delay: 227.679 ms  
Loss rate: 0.76%

Run 4: Report of Verus — Data Link

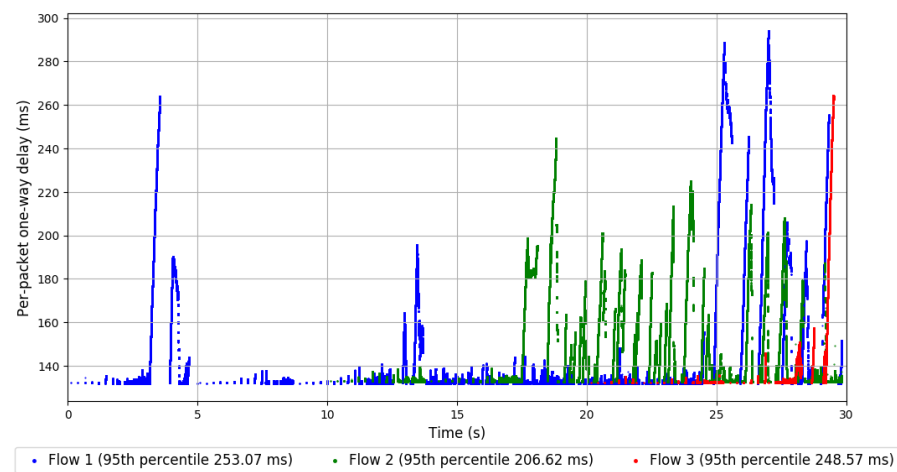
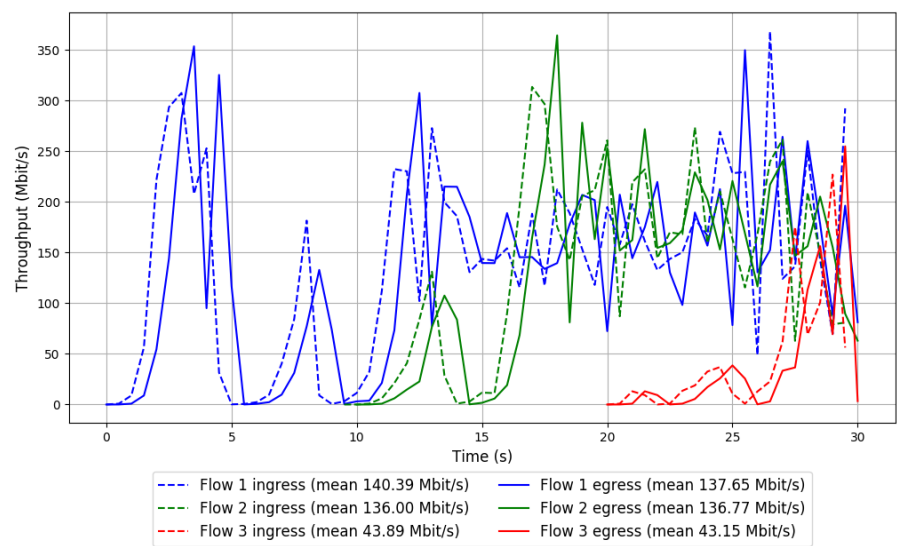


Run 5: Statistics of Verus

Start at: 2019-08-27 12:18:26  
End at: 2019-08-27 12:18:56  
Local clock offset: -0.439 ms  
Remote clock offset: -0.678 ms

# Below is generated by plot.py at 2019-08-27 14:59:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 241.98 Mbit/s  
95th percentile per-packet one-way delay: 236.329 ms  
Loss rate: 2.27%  
-- Flow 1:  
Average throughput: 137.65 Mbit/s  
95th percentile per-packet one-way delay: 253.071 ms  
Loss rate: 2.82%  
-- Flow 2:  
Average throughput: 136.77 Mbit/s  
95th percentile per-packet one-way delay: 206.620 ms  
Loss rate: 0.74%  
-- Flow 3:  
Average throughput: 43.15 Mbit/s  
95th percentile per-packet one-way delay: 248.573 ms  
Loss rate: 6.50%

Run 5: Report of Verus — Data Link

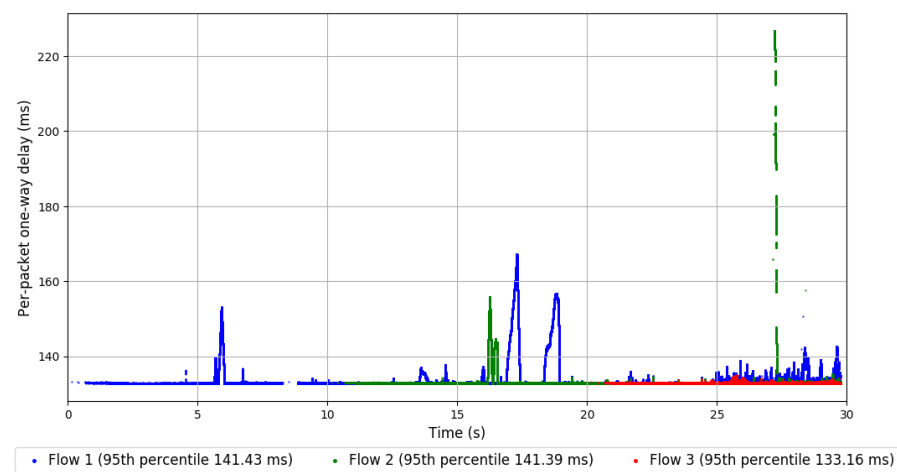
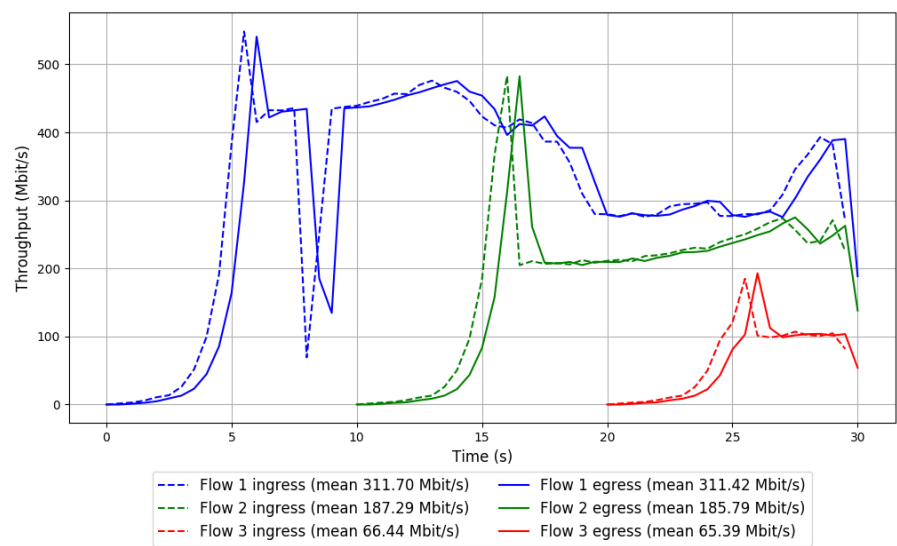


Run 1: Statistics of PCC-Vivace

Start at: 2019-08-27 09:05:07  
End at: 2019-08-27 09:05:37  
Local clock offset: -0.257 ms  
Remote clock offset: -0.186 ms

# Below is generated by plot.py at 2019-08-27 15:00:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 455.66 Mbit/s  
95th percentile per-packet one-way delay: 140.747 ms  
Loss rate: 1.45%  
-- Flow 1:  
Average throughput: 311.42 Mbit/s  
95th percentile per-packet one-way delay: 141.426 ms  
Loss rate: 0.99%  
-- Flow 2:  
Average throughput: 185.79 Mbit/s  
95th percentile per-packet one-way delay: 141.393 ms  
Loss rate: 2.13%  
-- Flow 3:  
Average throughput: 65.39 Mbit/s  
95th percentile per-packet one-way delay: 133.163 ms  
Loss rate: 4.24%

Run 1: Report of PCC-Vivace — Data Link

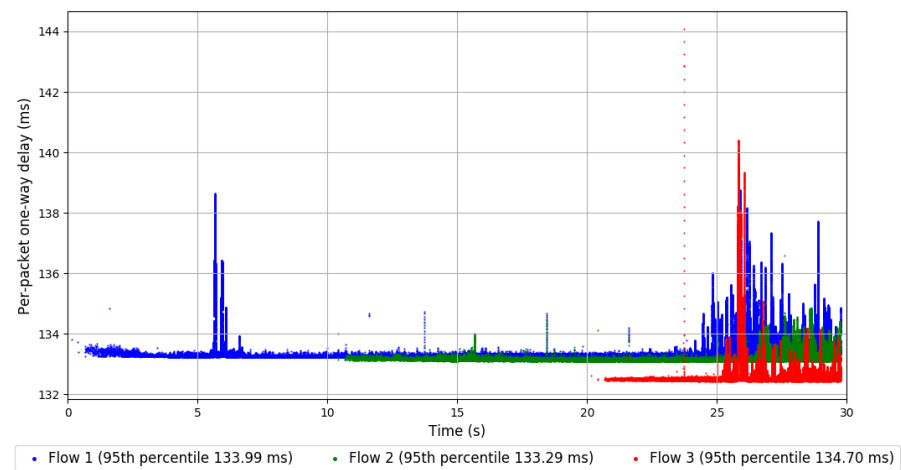
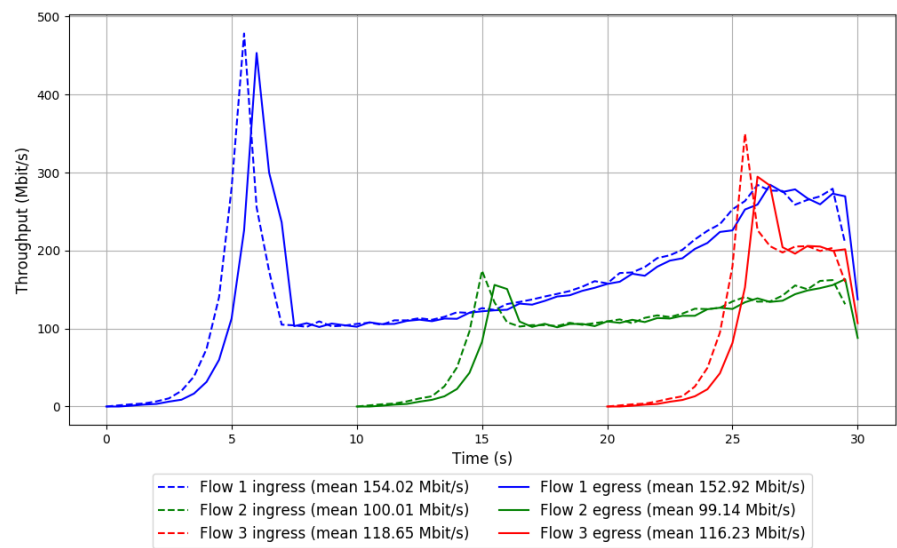


Run 2: Statistics of PCC-Vivace

Start at: 2019-08-27 09:48:33  
End at: 2019-08-27 09:49:03  
Local clock offset: 0.475 ms  
Remote clock offset: -0.178 ms

# Below is generated by plot.py at 2019-08-27 15:00:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 256.21 Mbit/s  
95th percentile per-packet one-way delay: 133.769 ms  
Loss rate: 2.22%  
-- Flow 1:  
Average throughput: 152.92 Mbit/s  
95th percentile per-packet one-way delay: 133.985 ms  
Loss rate: 1.60%  
-- Flow 2:  
Average throughput: 99.14 Mbit/s  
95th percentile per-packet one-way delay: 133.290 ms  
Loss rate: 2.19%  
-- Flow 3:  
Average throughput: 116.23 Mbit/s  
95th percentile per-packet one-way delay: 134.703 ms  
Loss rate: 4.68%

Run 2: Report of PCC-Vivace — Data Link



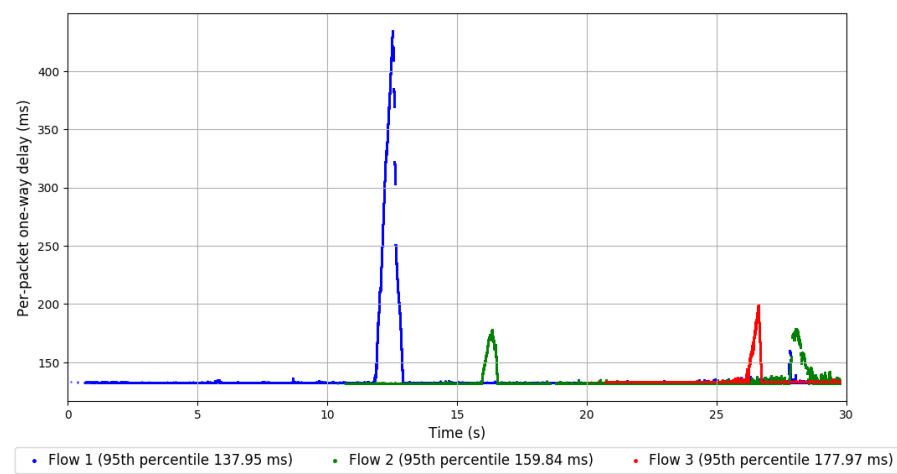
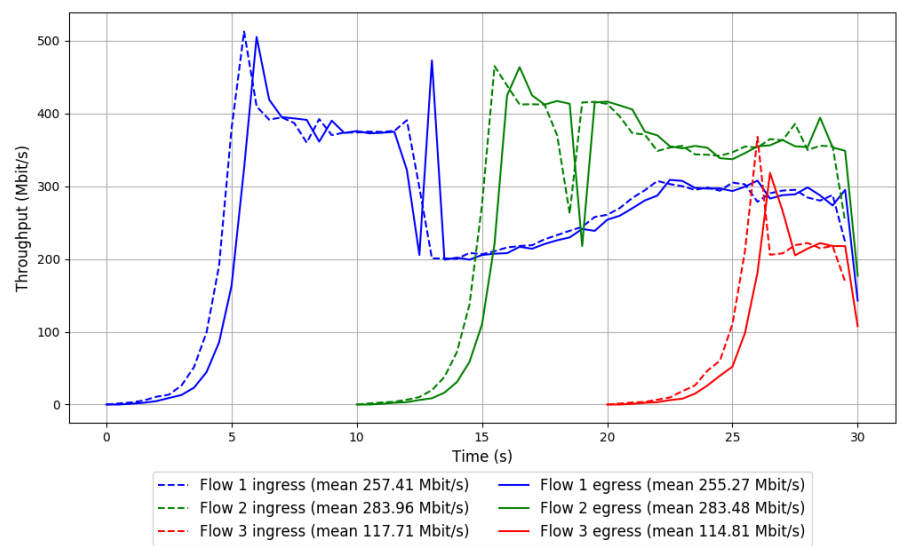


Run 3: Statistics of PCC-Vivace

Start at: 2019-08-27 10:31:55  
End at: 2019-08-27 10:32:25  
Local clock offset: 0.305 ms  
Remote clock offset: -0.163 ms

# Below is generated by plot.py at 2019-08-27 15:00:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 480.05 Mbit/s  
95th percentile per-packet one-way delay: 158.686 ms  
Loss rate: 1.93%  
-- Flow 1:  
Average throughput: 255.27 Mbit/s  
95th percentile per-packet one-way delay: 137.946 ms  
Loss rate: 1.75%  
-- Flow 2:  
Average throughput: 283.48 Mbit/s  
95th percentile per-packet one-way delay: 159.843 ms  
Loss rate: 1.52%  
-- Flow 3:  
Average throughput: 114.81 Mbit/s  
95th percentile per-packet one-way delay: 177.970 ms  
Loss rate: 5.12%

Run 3: Report of PCC-Vivace — Data Link

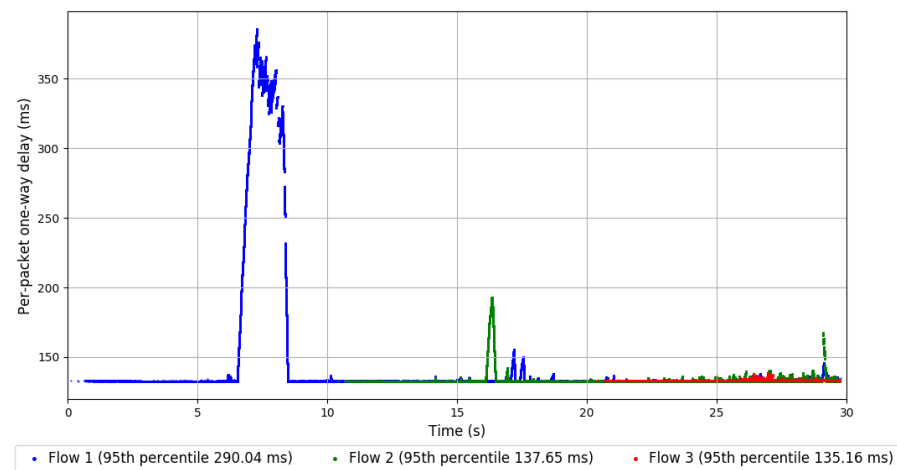
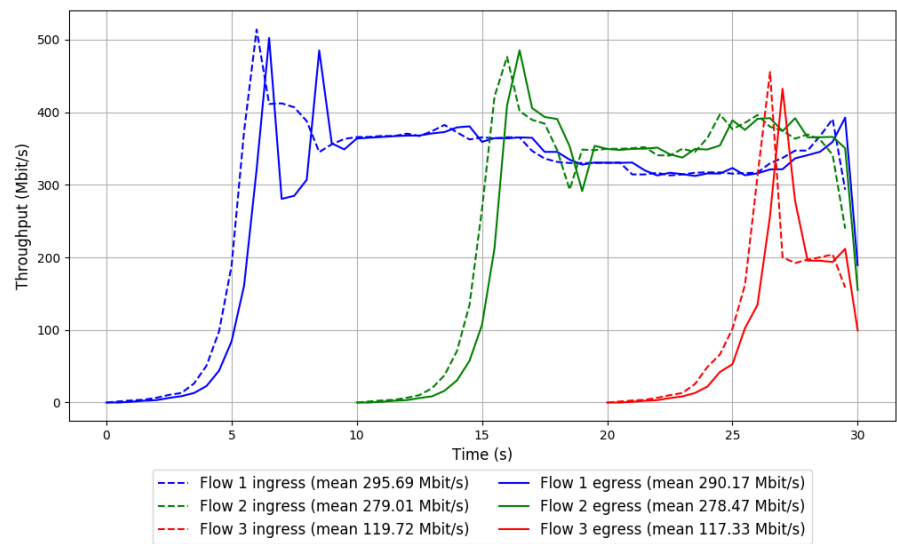


Run 4: Statistics of PCC-Vivace

Start at: 2019-08-27 11:15:35  
End at: 2019-08-27 11:16:05  
Local clock offset: -0.128 ms  
Remote clock offset: -0.381 ms

# Below is generated by plot.py at 2019-08-27 15:01:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 512.53 Mbit/s  
95th percentile per-packet one-way delay: 156.741 ms  
Loss rate: 2.45%  
-- Flow 1:  
Average throughput: 290.17 Mbit/s  
95th percentile per-packet one-way delay: 290.042 ms  
Loss rate: 2.74%  
-- Flow 2:  
Average throughput: 278.47 Mbit/s  
95th percentile per-packet one-way delay: 137.653 ms  
Loss rate: 1.53%  
-- Flow 3:  
Average throughput: 117.33 Mbit/s  
95th percentile per-packet one-way delay: 135.161 ms  
Loss rate: 4.65%

Run 4: Report of PCC-Vivace — Data Link

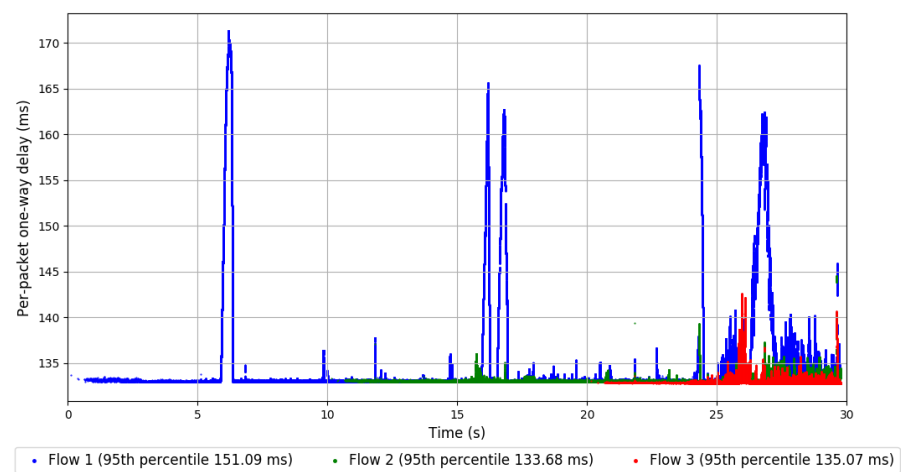
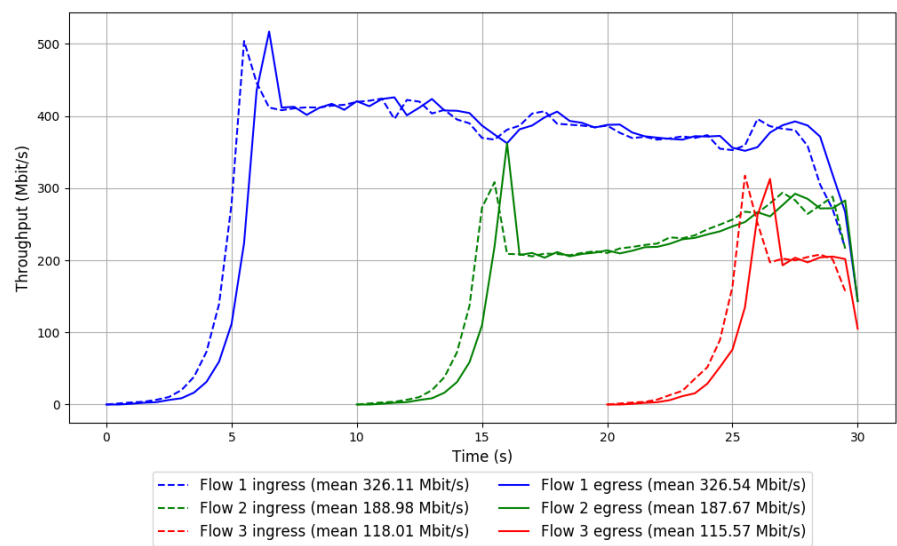


Run 5: Statistics of PCC-Vivace

Start at: 2019-08-27 11:58:58  
End at: 2019-08-27 11:59:28  
Local clock offset: -0.125 ms  
Remote clock offset: -0.353 ms

# Below is generated by plot.py at 2019-08-27 15:01:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 488.19 Mbit/s  
95th percentile per-packet one-way delay: 143.759 ms  
Loss rate: 1.41%  
-- Flow 1:  
Average throughput: 326.54 Mbit/s  
95th percentile per-packet one-way delay: 151.092 ms  
Loss rate: 0.78%  
-- Flow 2:  
Average throughput: 187.67 Mbit/s  
95th percentile per-packet one-way delay: 133.676 ms  
Loss rate: 2.03%  
-- Flow 3:  
Average throughput: 115.57 Mbit/s  
95th percentile per-packet one-way delay: 135.070 ms  
Loss rate: 4.71%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2019-08-27 09:28:19

End at: 2019-08-27 09:28:49

Local clock offset: -0.279 ms

Remote clock offset: -0.21 ms

# Below is generated by plot.py at 2019-08-27 15:01:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 133.442 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 133.477 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 133.300 ms

Loss rate: 0.00%

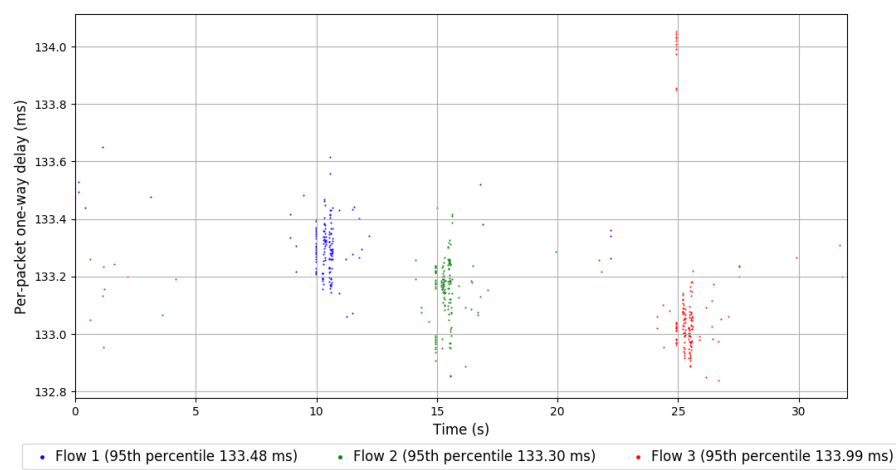
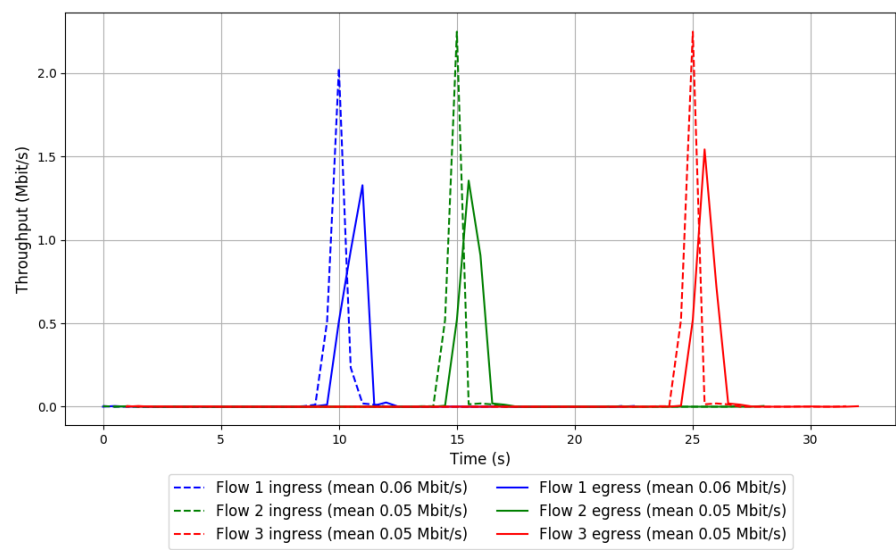
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 133.991 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



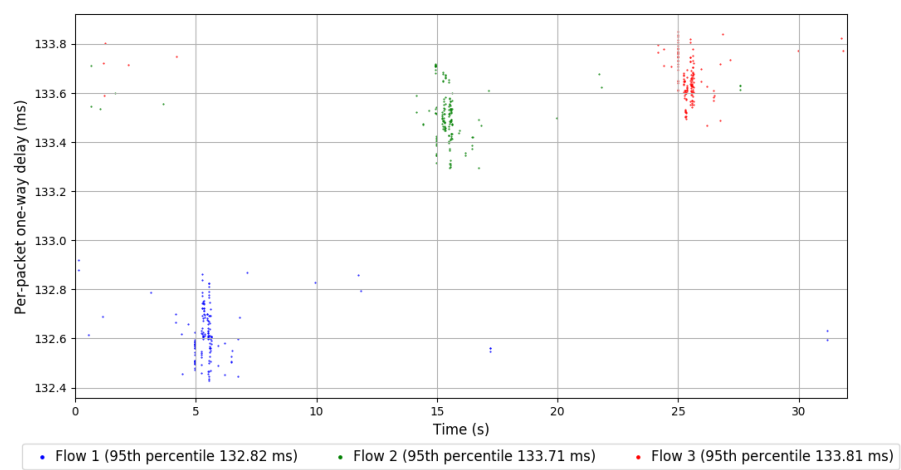
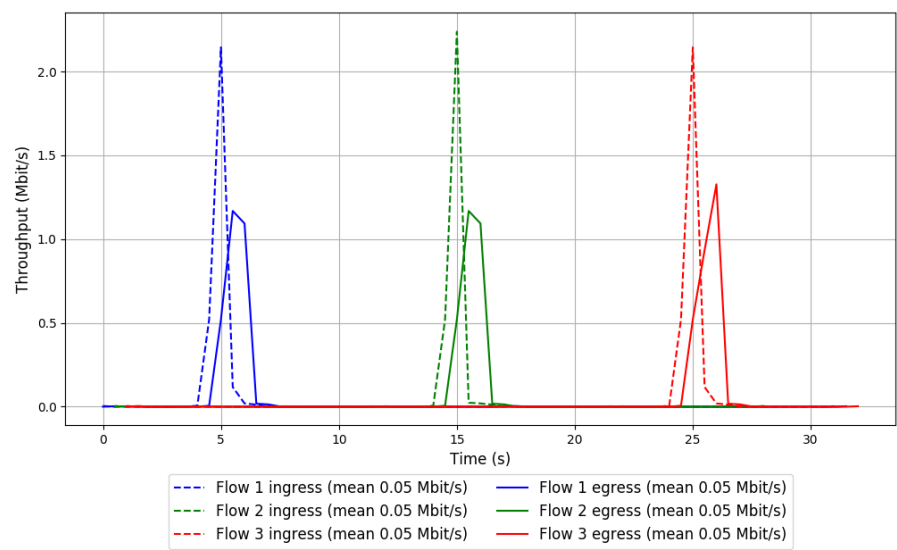


Run 2: Statistics of WebRTC media

Start at: 2019-08-27 10:11:41  
End at: 2019-08-27 10:12:11  
Local clock offset: 0.643 ms  
Remote clock offset: -0.157 ms

# Below is generated by plot.py at 2019-08-27 15:01:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.13 Mbit/s  
95th percentile per-packet one-way delay: 133.758 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 132.824 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 133.708 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 133.805 ms  
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

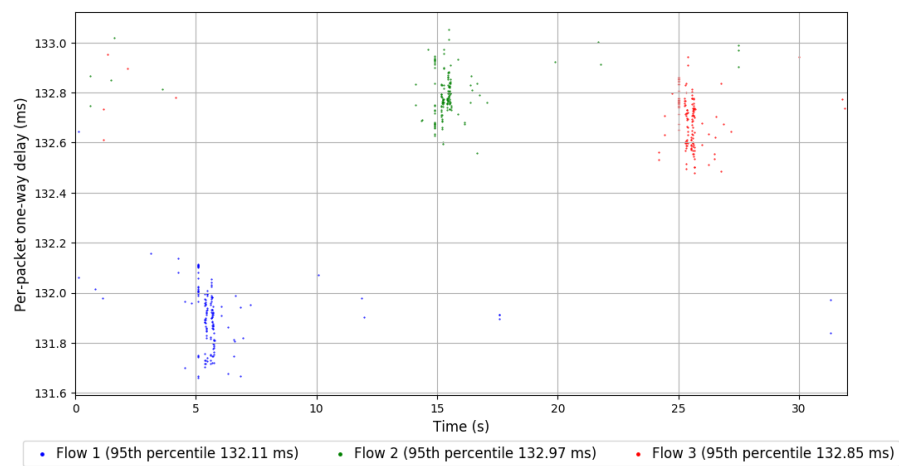
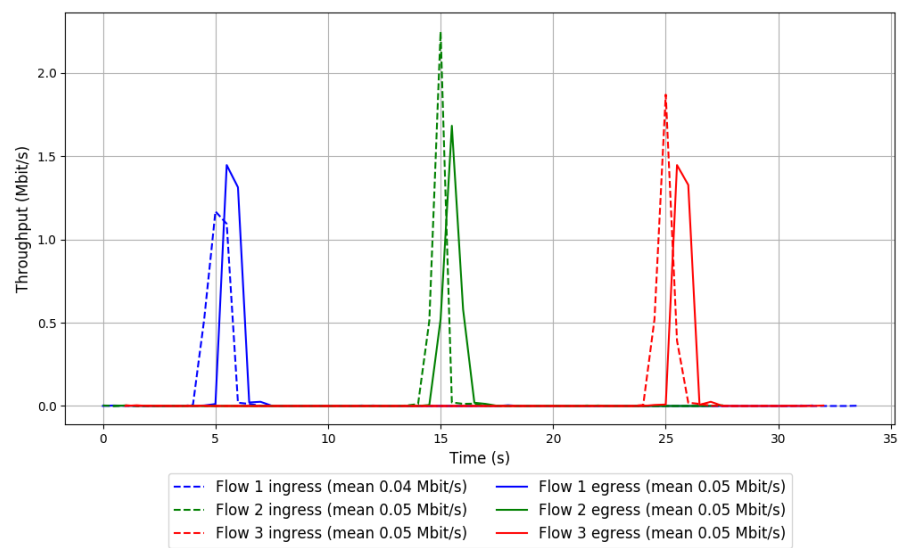


Run 3: Statistics of WebRTC media

Start at: 2019-08-27 10:55:11  
End at: 2019-08-27 10:55:41  
Local clock offset: -0.41 ms  
Remote clock offset: -0.331 ms

# Below is generated by plot.py at 2019-08-27 15:01:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.13 Mbit/s  
95th percentile per-packet one-way delay: 132.912 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 132.106 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 132.971 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 132.854 ms  
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

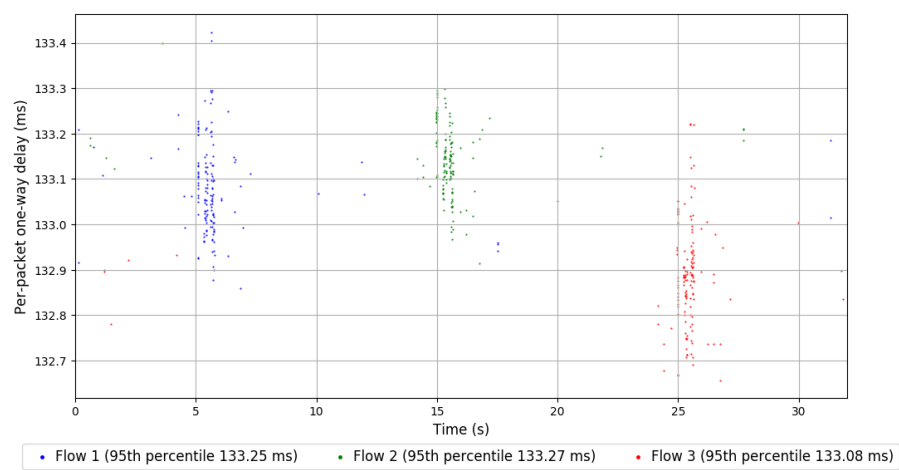
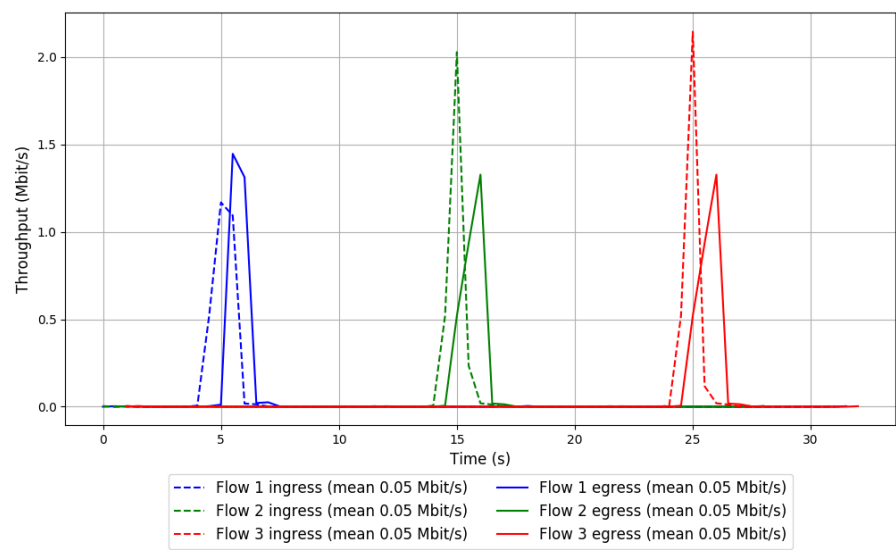


Run 4: Statistics of WebRTC media

Start at: 2019-08-27 11:38:58  
End at: 2019-08-27 11:39:28  
Local clock offset: -0.182 ms  
Remote clock offset: -0.355 ms

```
# Below is generated by plot.py at 2019-08-27 15:01:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 133.245 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 133.249 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 133.267 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 133.080 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-08-27 12:22:11  
End at: 2019-08-27 12:22:41  
Local clock offset: -0.193 ms  
Remote clock offset: -0.301 ms

# Below is generated by plot.py at 2019-08-27 15:01:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.13 Mbit/s  
95th percentile per-packet one-way delay: 133.019 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 133.147 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 132.772 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 133.047 ms  
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

