

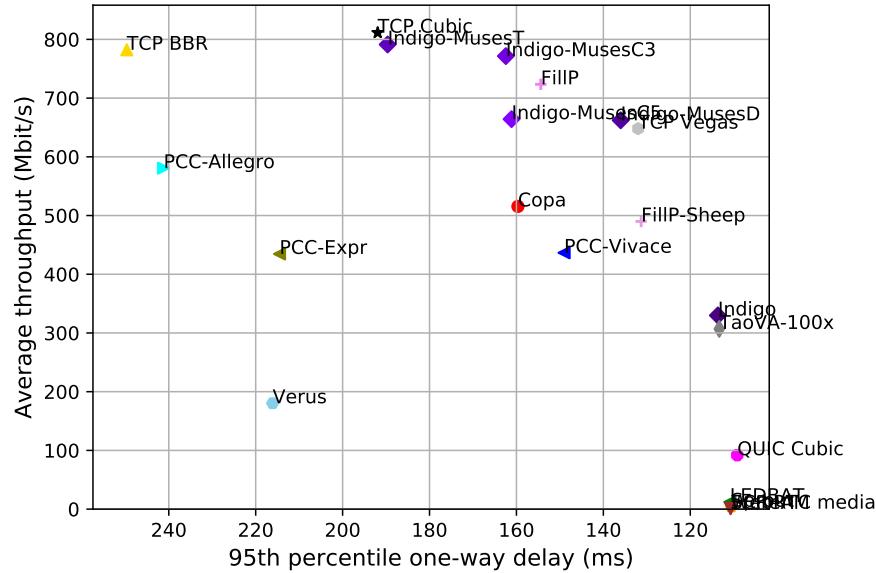
Pantheon Report

Generated at 2019-03-09 05:44:54 (UTC).
Data path: GCE Tokyo on `ens4` (*local*) → GCE London on `ens4` (*remote*).
Repeated the test of 21 congestion control schemes 5 times.
Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.
NTP offsets were measured against `time.google.com` and have been applied to correct the timestamps in logs.

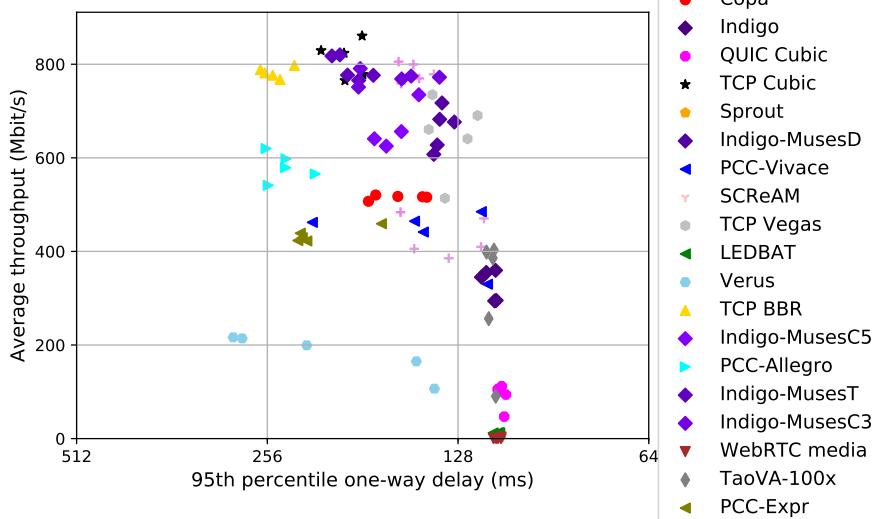
```
System info:  
Linux 4.15.0-1026-gcp  
net.core.default_qdisc = fq  
net.core.rmem_default = 16777216  
net.core.rmem_max = 536870912  
net.core.wmem_default = 16777216  
net.core.wmem_max = 536870912  
net.ipv4.tcp_rmem = 4096 16777216 536870912  
net.ipv4.tcp_wmem = 4096 16777216 536870912  
  
Git summary:  
branch: muses @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee  
third_party/fillp @ d6da1459332fceef56963885d7eba17e6a32d4519  
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9  
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4  
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d  
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf  
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966  
third_party/pantheon-tunnel @ f866d3f58d27af942717625ee3a354cc2e802bd  
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1  
M receiver/src/buffer.h  
M receiver/src/core.cpp  
M sender/src/buffer.h  
M sender/src/core.cpp  
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab  
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42  
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2  
M src/ScreamClient  
M src/ScreamServer  
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26  
M src/examples/cellsim.cc  
M src/examples/sproutbt2.cc  
M src/network/sproutconn.cc  
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494  
M src/verus.hpp  
M tools/plot.py
```

third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

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



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



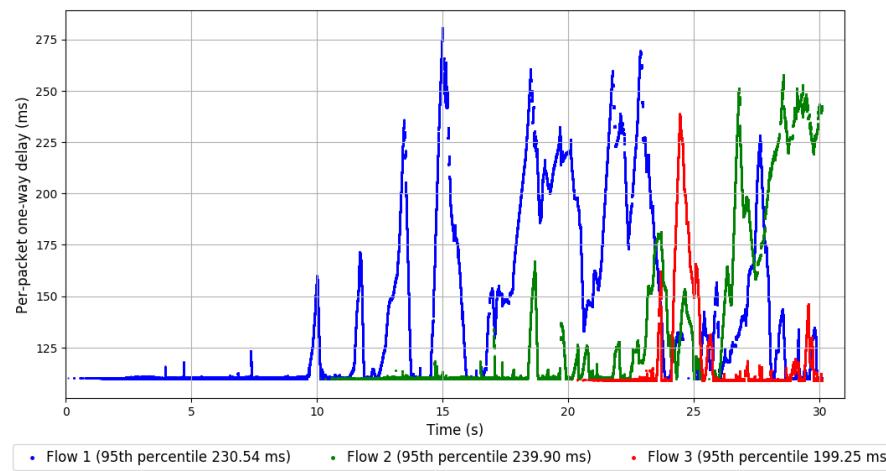
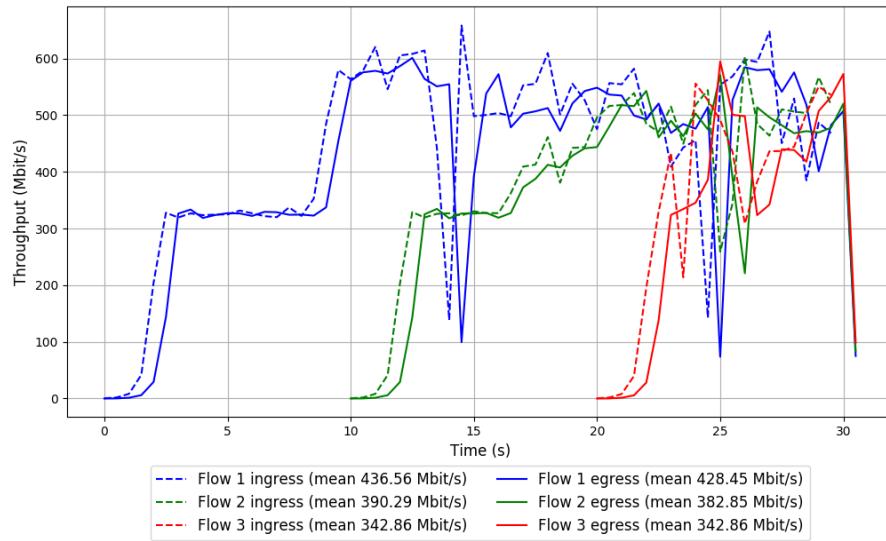
| scheme | # runs | mean avg tput (Mbit/s) | | | mean 95th-%ile delay (ms) | | | mean loss rate (%) | | |
|----------------|--------|------------------------|--------|--------|---------------------------|--------|--------|--------------------|--------|--------|
| | | flow 1 | flow 2 | flow 3 | flow 1 | flow 2 | flow 3 | flow 1 | flow 2 | flow 3 |
| TCP BBR | 5 | 427.00 | 379.36 | 308.58 | 235.86 | 257.66 | 204.90 | 1.76 | 2.82 | 1.23 |
| Copa | 5 | 278.29 | 250.24 | 211.80 | 145.75 | 164.73 | 181.13 | 0.07 | 0.10 | 0.20 |
| TCP Cubic | 5 | 440.96 | 402.99 | 306.86 | 175.69 | 195.98 | 152.84 | 0.08 | 0.19 | 0.28 |
| FillP | 5 | 432.11 | 325.57 | 225.22 | 161.94 | 113.75 | 112.24 | 0.93 | 0.01 | 0.00 |
| FillP-Sheep | 5 | 209.60 | 306.68 | 230.64 | 145.59 | 113.86 | 112.17 | 0.49 | 0.00 | 0.00 |
| Indigo | 5 | 178.44 | 158.26 | 144.96 | 112.56 | 114.63 | 114.50 | 0.00 | 0.00 | 0.00 |
| Indigo-MusesC3 | 5 | 451.88 | 376.16 | 280.43 | 178.81 | 133.29 | 114.49 | 0.19 | 0.01 | 0.01 |
| Indigo-MusesC5 | 4 | 409.67 | 321.54 | 165.70 | 162.96 | 156.90 | 125.78 | 0.13 | 0.04 | 0.01 |
| Indigo-MusesD | 5 | 386.79 | 361.44 | 159.78 | 139.09 | 134.95 | 110.81 | 0.00 | 0.00 | 0.02 |
| Indigo-MusesT | 5 | 486.52 | 407.03 | 167.61 | 196.17 | 149.97 | 116.34 | 0.28 | 0.03 | 0.02 |
| LEDBAT | 5 | 7.85 | 5.18 | 2.54 | 110.17 | 110.60 | 110.21 | 0.00 | 0.00 | 0.00 |
| PCC-Allegro | 5 | 309.31 | 294.89 | 229.35 | 207.47 | 226.65 | 236.94 | 3.51 | 3.94 | 2.43 |
| PCC-Expr | 5 | 252.96 | 188.78 | 170.07 | 209.67 | 169.46 | 185.06 | 2.64 | 0.45 | 0.99 |
| QUIC Cubic | 5 | 46.52 | 49.46 | 38.75 | 109.23 | 108.95 | 108.87 | 0.00 | 0.00 | 0.00 |
| SCReAM | 5 | 0.22 | 0.21 | 0.22 | 109.72 | 110.59 | 110.12 | 0.00 | 0.00 | 0.00 |
| Sprout | 5 | 2.46 | 2.03 | 0.82 | 110.23 | 110.14 | 109.45 | 0.00 | 0.00 | 0.00 |
| TaoVA-100x | 5 | 166.25 | 124.28 | 174.42 | 112.85 | 112.03 | 113.71 | 0.00 | 0.00 | 0.01 |
| TCP Vegas | 5 | 326.19 | 328.22 | 310.52 | 125.24 | 135.75 | 142.79 | 0.03 | 0.11 | 0.06 |
| Verus | 5 | 121.70 | 64.32 | 50.17 | 205.63 | 176.03 | 208.93 | 1.95 | 1.09 | 2.90 |
| PCC-Vivace | 5 | 282.34 | 169.39 | 125.93 | 157.91 | 115.76 | 132.56 | 0.00 | 0.00 | 0.01 |
| WebRTC media | 5 | 0.44 | 0.28 | 0.10 | 110.74 | 109.98 | 109.20 | 0.00 | 0.00 | 0.00 |

Run 1: Statistics of TCP BBR

```
Start at: 2019-03-09 00:47:07
End at: 2019-03-09 00:47:37
Local clock offset: -0.849 ms
Remote clock offset: -0.015 ms

# Below is generated by plot.py at 2019-03-09 03:49:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 797.45 Mbit/s
95th percentile per-packet one-way delay: 232.027 ms
Loss rate: 1.61%
-- Flow 1:
Average throughput: 428.45 Mbit/s
95th percentile per-packet one-way delay: 230.538 ms
Loss rate: 1.86%
-- Flow 2:
Average throughput: 382.85 Mbit/s
95th percentile per-packet one-way delay: 239.903 ms
Loss rate: 1.91%
-- Flow 3:
Average throughput: 342.86 Mbit/s
95th percentile per-packet one-way delay: 199.245 ms
Loss rate: 0.00%
```

Run 1: Report of TCP BBR — Data Link

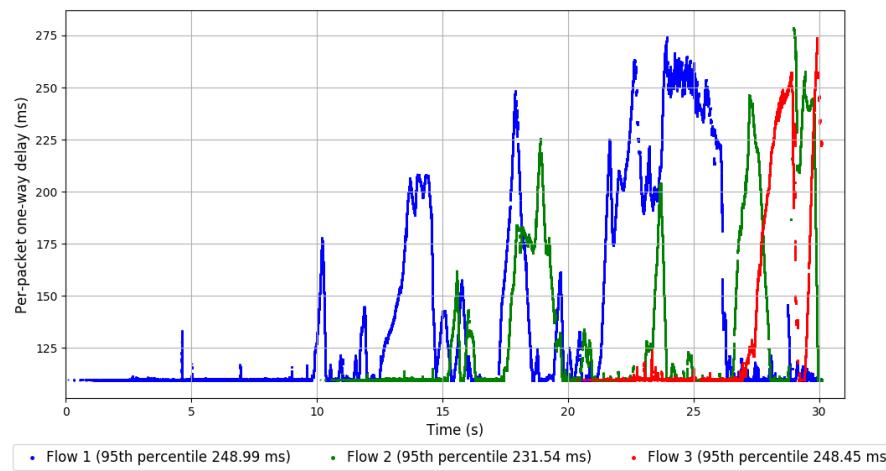
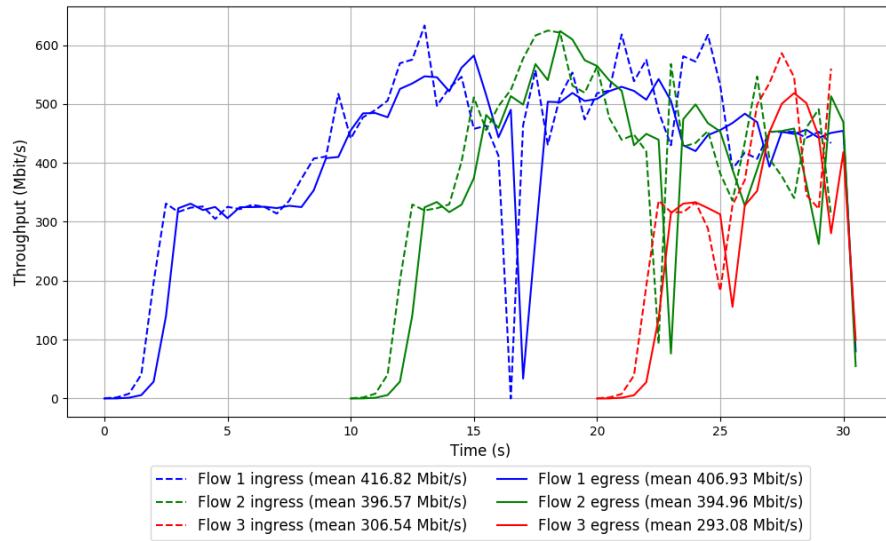


Run 2: Statistics of TCP BBR

```
Start at: 2019-03-09 01:24:27
End at: 2019-03-09 01:24:57
Local clock offset: -0.005 ms
Remote clock offset: -0.123 ms

# Below is generated by plot.py at 2019-03-09 03:49:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 767.40 Mbit/s
95th percentile per-packet one-way delay: 244.481 ms
Loss rate: 1.97%
-- Flow 1:
Average throughput: 406.93 Mbit/s
95th percentile per-packet one-way delay: 248.985 ms
Loss rate: 2.37%
-- Flow 2:
Average throughput: 394.96 Mbit/s
95th percentile per-packet one-way delay: 231.544 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 293.08 Mbit/s
95th percentile per-packet one-way delay: 248.448 ms
Loss rate: 4.39%
```

Run 2: Report of TCP BBR — Data Link

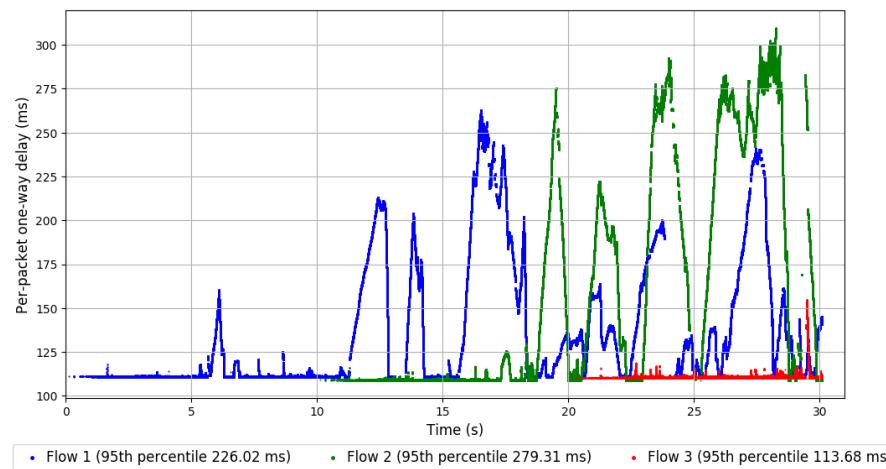
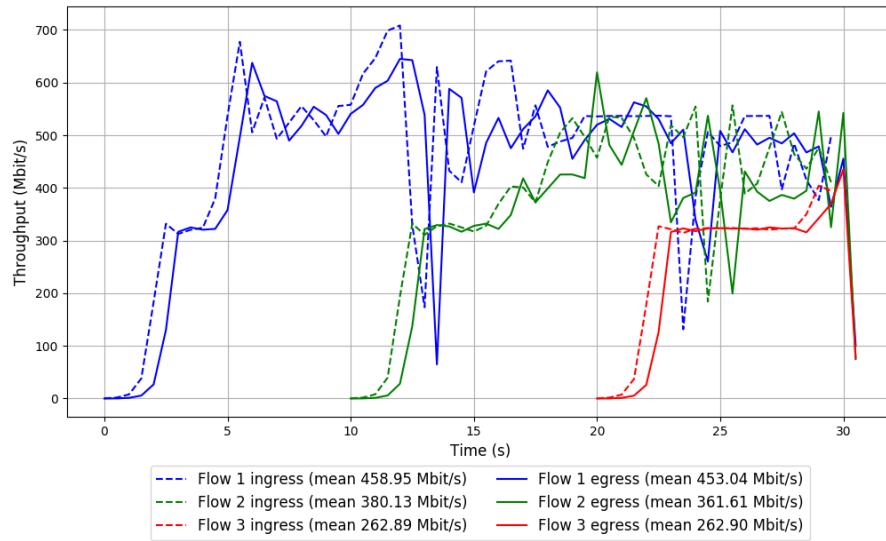


Run 3: Statistics of TCP BBR

```
Start at: 2019-03-09 02:01:55
End at: 2019-03-09 02:02:25
Local clock offset: -0.145 ms
Remote clock offset: -0.478 ms

# Below is generated by plot.py at 2019-03-09 03:49:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 781.38 Mbit/s
95th percentile per-packet one-way delay: 258.208 ms
Loss rate: 2.28%
-- Flow 1:
Average throughput: 453.04 Mbit/s
95th percentile per-packet one-way delay: 226.021 ms
Loss rate: 1.29%
-- Flow 2:
Average throughput: 361.61 Mbit/s
95th percentile per-packet one-way delay: 279.308 ms
Loss rate: 4.87%
-- Flow 3:
Average throughput: 262.90 Mbit/s
95th percentile per-packet one-way delay: 113.683 ms
Loss rate: 0.00%
```

Run 3: Report of TCP BBR — Data Link

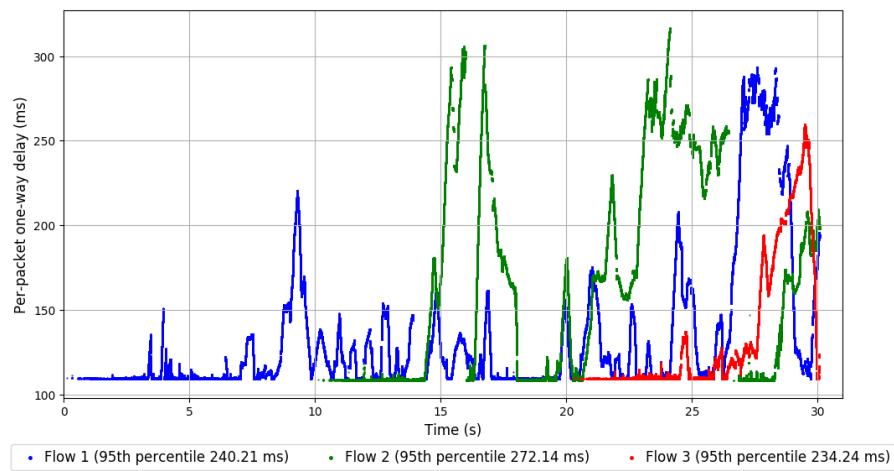
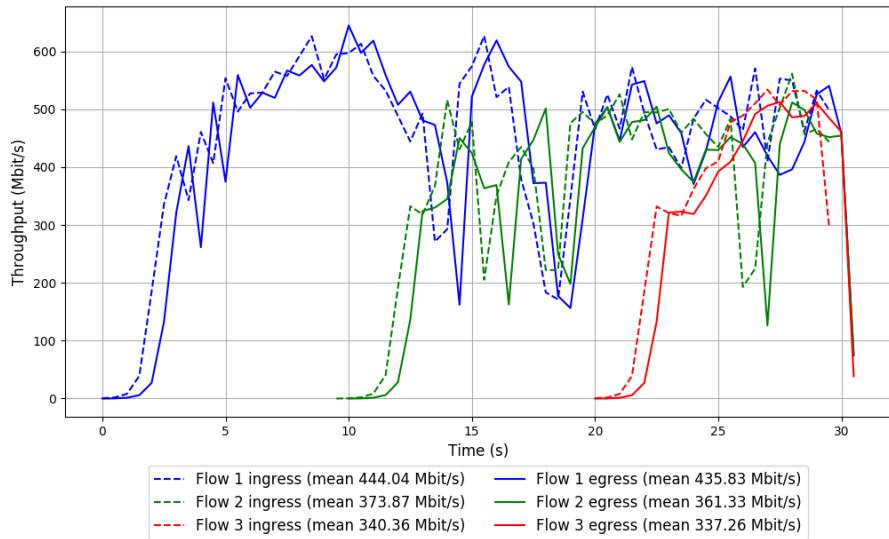


Run 4: Statistics of TCP BBR

```
Start at: 2019-03-09 02:39:47
End at: 2019-03-09 02:40:17
Local clock offset: -0.186 ms
Remote clock offset: -0.127 ms

# Below is generated by plot.py at 2019-03-09 03:49:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 788.53 Mbit/s
95th percentile per-packet one-way delay: 262.517 ms
Loss rate: 2.18%
-- Flow 1:
Average throughput: 435.83 Mbit/s
95th percentile per-packet one-way delay: 240.211 ms
Loss rate: 1.84%
-- Flow 2:
Average throughput: 361.33 Mbit/s
95th percentile per-packet one-way delay: 272.138 ms
Loss rate: 3.35%
-- Flow 3:
Average throughput: 337.26 Mbit/s
95th percentile per-packet one-way delay: 234.236 ms
Loss rate: 0.90%
```

Run 4: Report of TCP BBR — Data Link

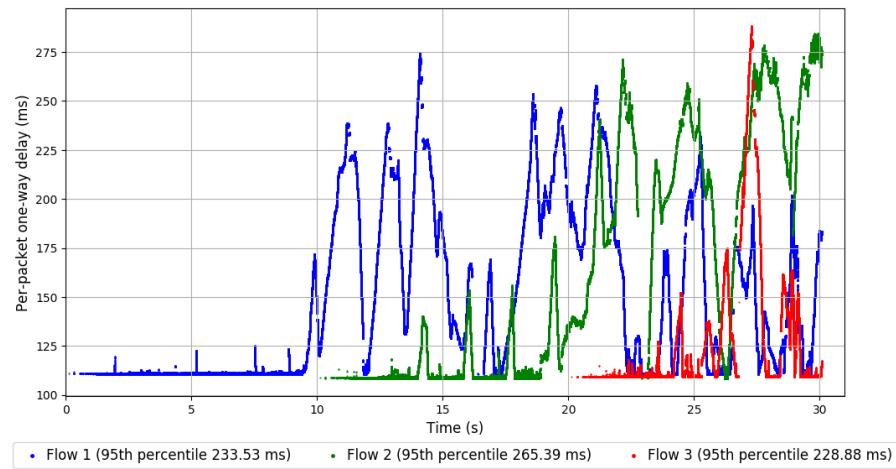
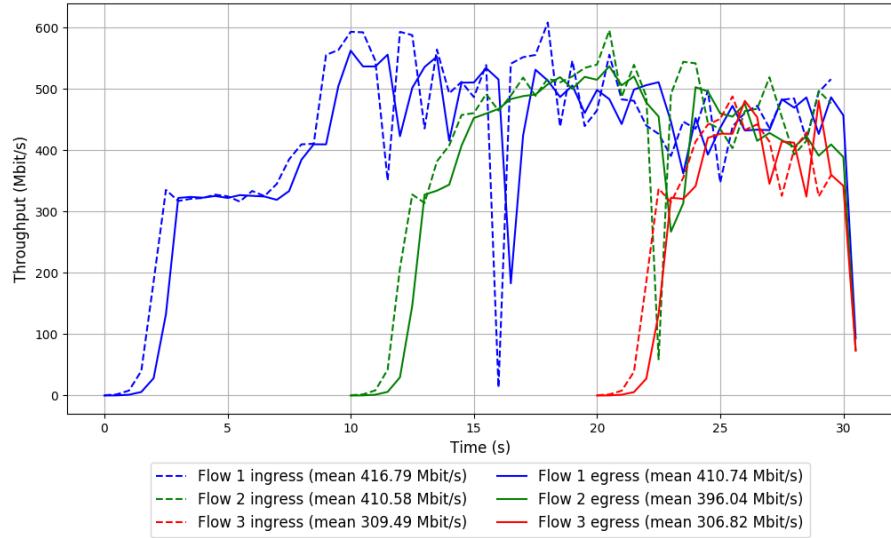


Run 5: Statistics of TCP BBR

```
Start at: 2019-03-09 03:16:59
End at: 2019-03-09 03:17:29
Local clock offset: -0.24 ms
Remote clock offset: -0.133 ms

# Below is generated by plot.py at 2019-03-09 03:49:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 776.59 Mbit/s
95th percentile per-packet one-way delay: 251.054 ms
Loss rate: 2.10%
-- Flow 1:
Average throughput: 410.74 Mbit/s
95th percentile per-packet one-way delay: 233.529 ms
Loss rate: 1.46%
-- Flow 2:
Average throughput: 396.04 Mbit/s
95th percentile per-packet one-way delay: 265.395 ms
Loss rate: 3.54%
-- Flow 3:
Average throughput: 306.82 Mbit/s
95th percentile per-packet one-way delay: 228.885 ms
Loss rate: 0.86%
```

Run 5: Report of TCP BBR — Data Link

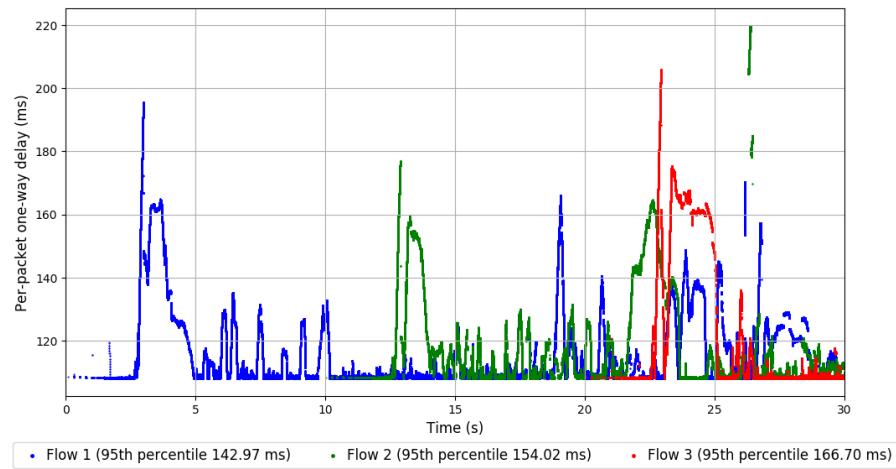
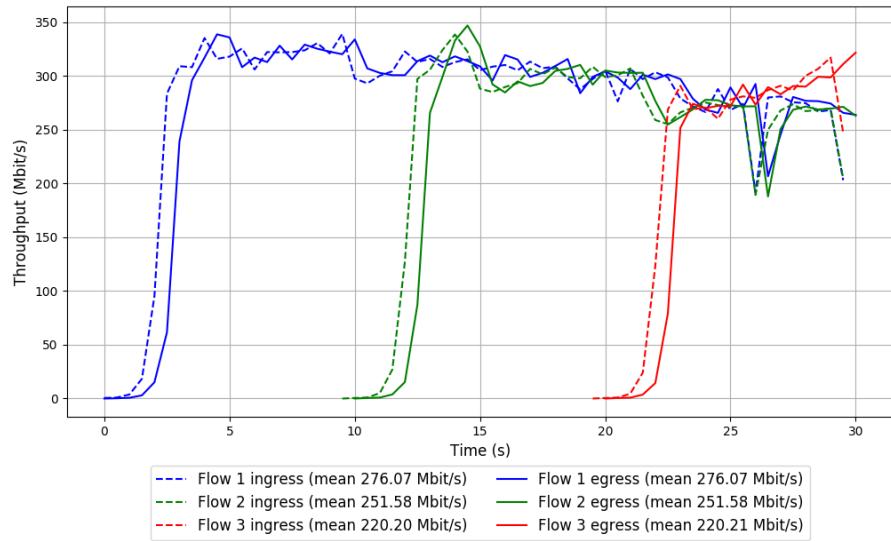


Run 1: Statistics of Copa

```
Start at: 2019-03-09 00:18:46
End at: 2019-03-09 00:19:16
Local clock offset: 0.891 ms
Remote clock offset: 0.098 ms

# Below is generated by plot.py at 2019-03-09 03:52:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 517.56 Mbit/s
95th percentile per-packet one-way delay: 159.303 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 276.07 Mbit/s
95th percentile per-packet one-way delay: 142.971 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 251.58 Mbit/s
95th percentile per-packet one-way delay: 154.020 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 220.21 Mbit/s
95th percentile per-packet one-way delay: 166.703 ms
Loss rate: 0.00%
```

Run 1: Report of Copa — Data Link

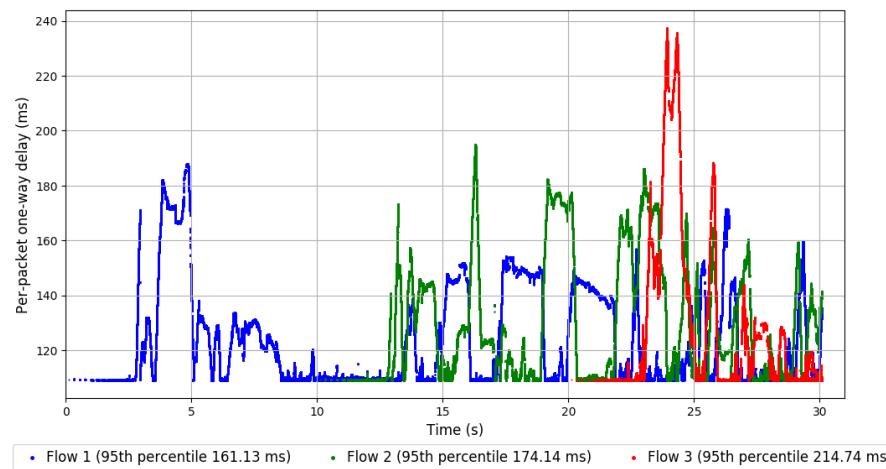
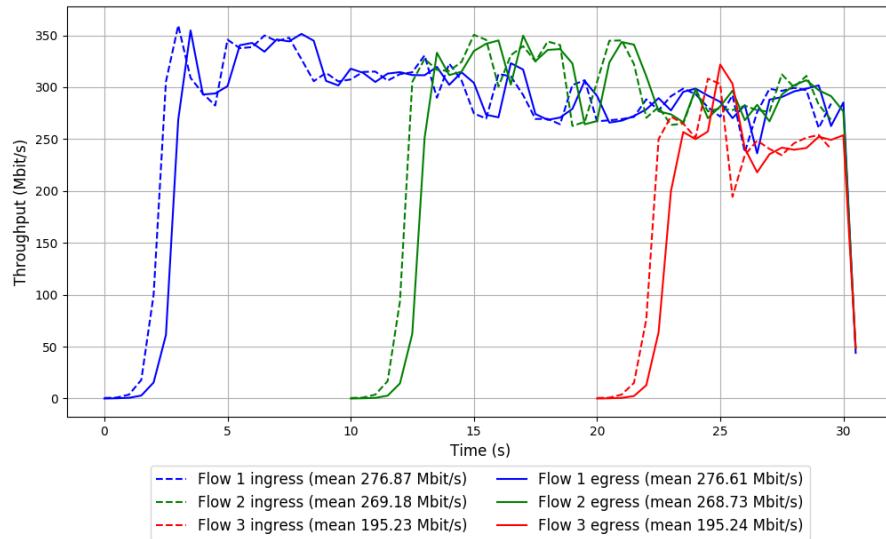


Run 2: Statistics of Copa

```
Start at: 2019-03-09 00:55:42
End at: 2019-03-09 00:56:12
Local clock offset: -0.076 ms
Remote clock offset: -0.031 ms

# Below is generated by plot.py at 2019-03-09 03:52:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 520.50 Mbit/s
95th percentile per-packet one-way delay: 172.656 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 276.61 Mbit/s
95th percentile per-packet one-way delay: 161.126 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 268.73 Mbit/s
95th percentile per-packet one-way delay: 174.142 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 195.24 Mbit/s
95th percentile per-packet one-way delay: 214.742 ms
Loss rate: 0.00%
```

Run 2: Report of Copa — Data Link

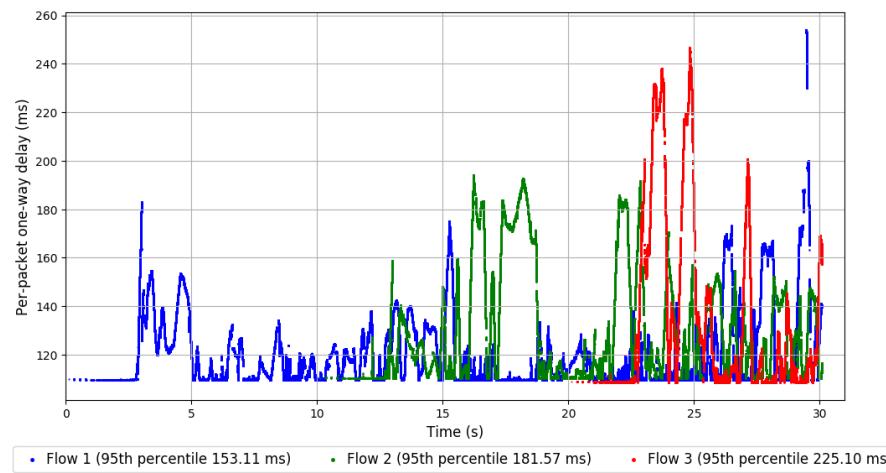
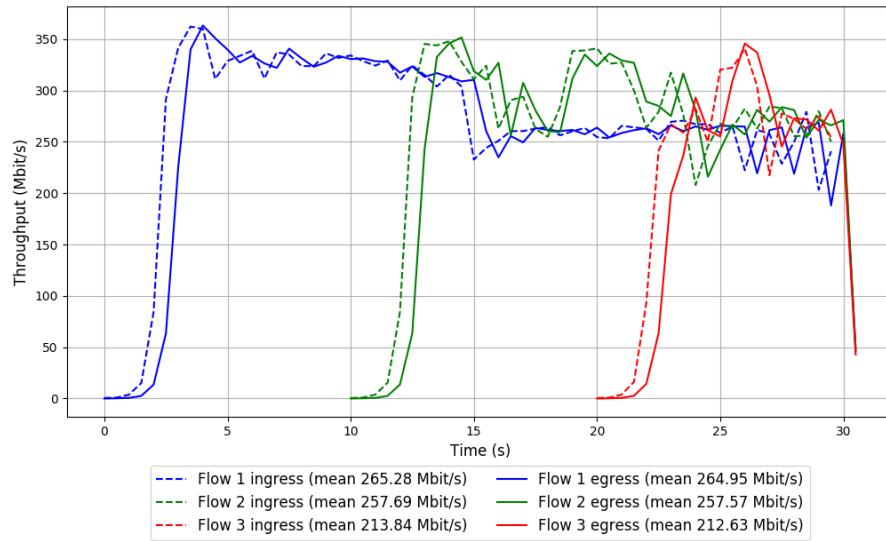


Run 3: Statistics of Copa

```
Start at: 2019-03-09 01:32:58
End at: 2019-03-09 01:33:28
Local clock offset: -0.25 ms
Remote clock offset: -0.076 ms

# Below is generated by plot.py at 2019-03-09 03:52:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 507.15 Mbit/s
95th percentile per-packet one-way delay: 177.258 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 264.95 Mbit/s
95th percentile per-packet one-way delay: 153.114 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 257.57 Mbit/s
95th percentile per-packet one-way delay: 181.568 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 212.63 Mbit/s
95th percentile per-packet one-way delay: 225.104 ms
Loss rate: 0.56%
```

Run 3: Report of Copa — Data Link

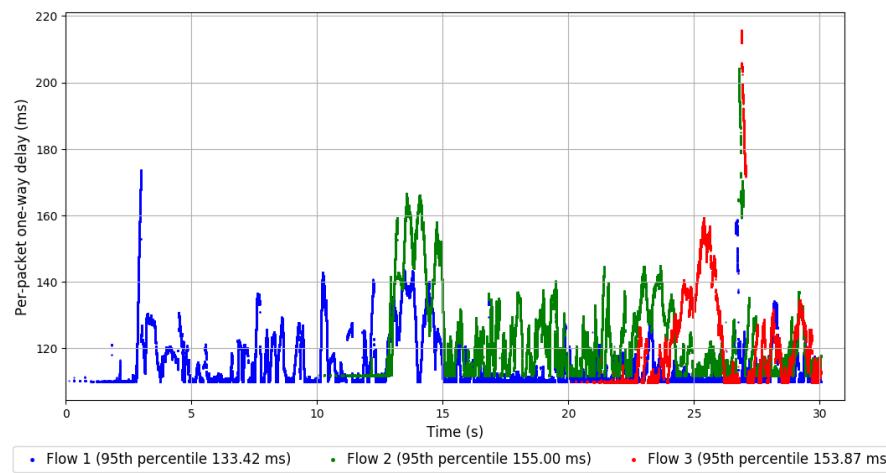
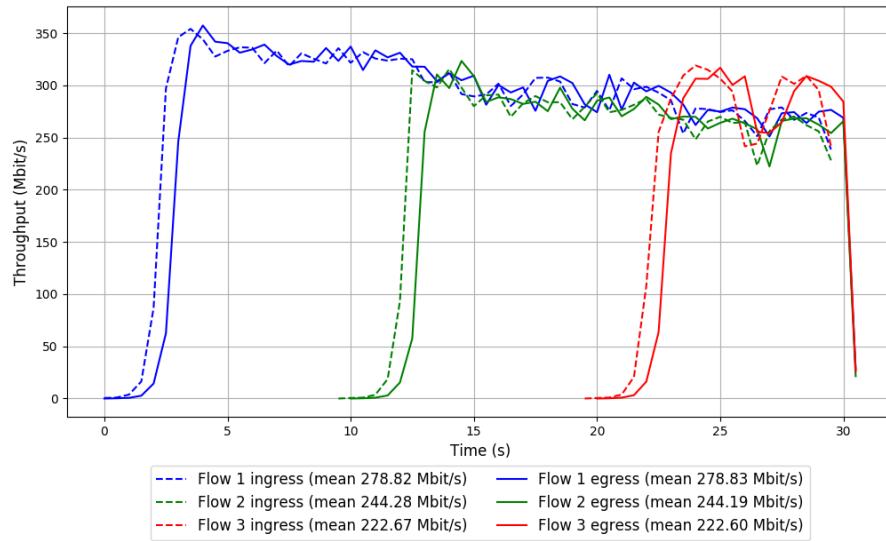


Run 4: Statistics of Copa

```
Start at: 2019-03-09 02:10:32
End at: 2019-03-09 02:11:02
Local clock offset: -0.295 ms
Remote clock offset: 0.229 ms

# Below is generated by plot.py at 2019-03-09 04:06:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 515.83 Mbit/s
95th percentile per-packet one-way delay: 143.419 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 278.83 Mbit/s
95th percentile per-packet one-way delay: 133.424 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 244.19 Mbit/s
95th percentile per-packet one-way delay: 154.999 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 222.60 Mbit/s
95th percentile per-packet one-way delay: 153.872 ms
Loss rate: 0.03%
```

Run 4: Report of Copa — Data Link

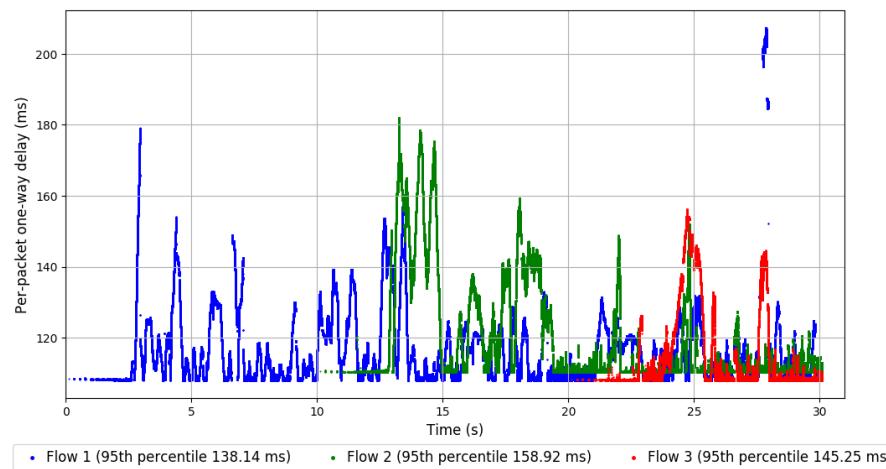
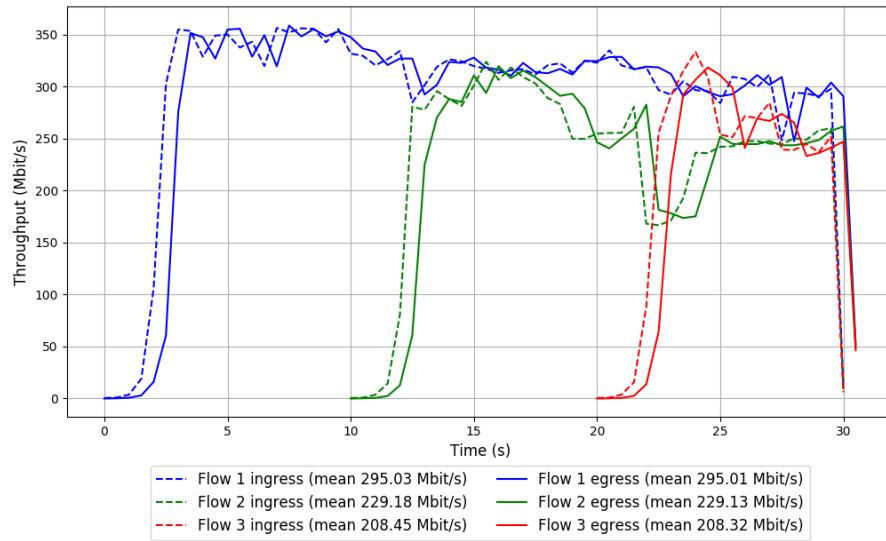


Run 5: Statistics of Copa

```
Start at: 2019-03-09 02:48:30
End at: 2019-03-09 02:49:00
Local clock offset: -0.209 ms
Remote clock offset: -0.454 ms

# Below is generated by plot.py at 2019-03-09 04:06:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 516.78 Mbit/s
95th percentile per-packet one-way delay: 145.645 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 295.01 Mbit/s
95th percentile per-packet one-way delay: 138.140 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 229.13 Mbit/s
95th percentile per-packet one-way delay: 158.923 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 208.32 Mbit/s
95th percentile per-packet one-way delay: 145.250 ms
Loss rate: 0.40%
```

Run 5: Report of Copa — Data Link

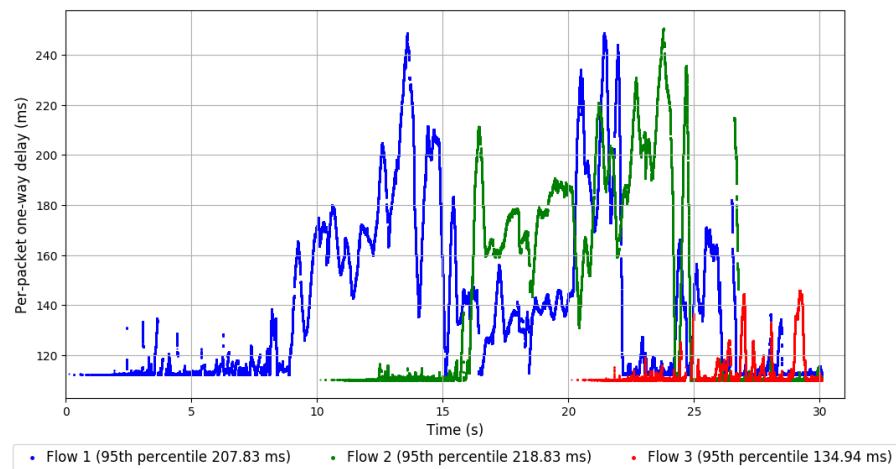
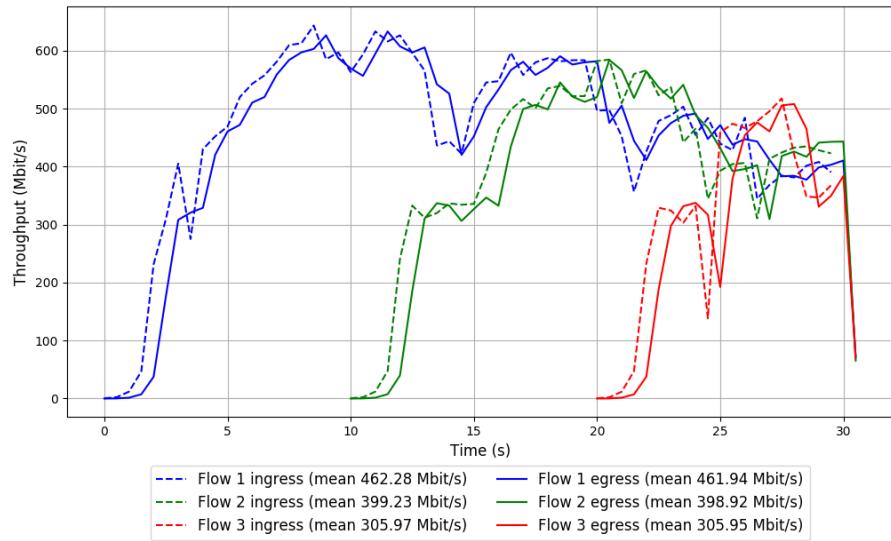


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-03-09 00:24:49
End at: 2019-03-09 00:25:19
Local clock offset: -0.014 ms
Remote clock offset: 0.057 ms

# Below is generated by plot.py at 2019-03-09 04:06:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 829.31 Mbit/s
95th percentile per-packet one-way delay: 210.586 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 461.94 Mbit/s
95th percentile per-packet one-way delay: 207.832 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 398.92 Mbit/s
95th percentile per-packet one-way delay: 218.830 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 305.95 Mbit/s
95th percentile per-packet one-way delay: 134.936 ms
Loss rate: 0.01%
```

Run 1: Report of TCP Cubic — Data Link

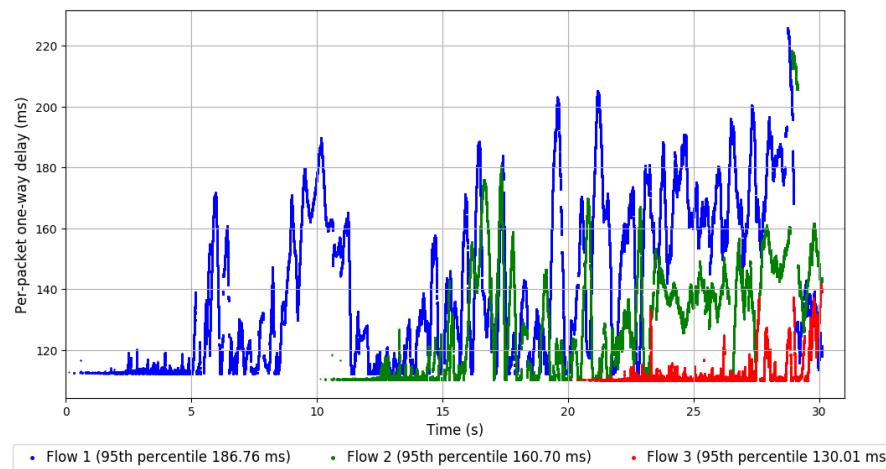
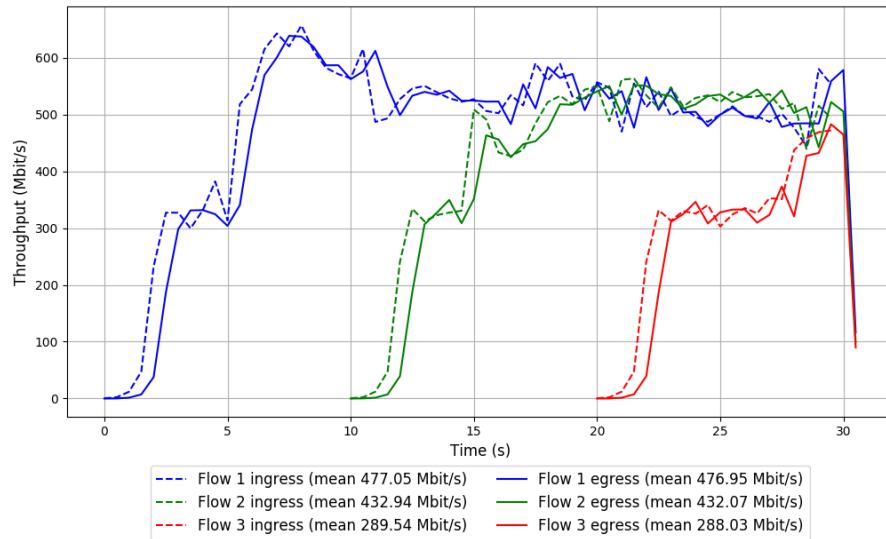


Run 2: Statistics of TCP Cubic

```
Start at: 2019-03-09 01:01:33
End at: 2019-03-09 01:02:03
Local clock offset: -0.496 ms
Remote clock offset: 0.308 ms

# Below is generated by plot.py at 2019-03-09 04:06:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 860.53 Mbit/s
95th percentile per-packet one-way delay: 181.406 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 476.95 Mbit/s
95th percentile per-packet one-way delay: 186.765 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 432.07 Mbit/s
95th percentile per-packet one-way delay: 160.704 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 288.03 Mbit/s
95th percentile per-packet one-way delay: 130.012 ms
Loss rate: 0.52%
```

Run 2: Report of TCP Cubic — Data Link

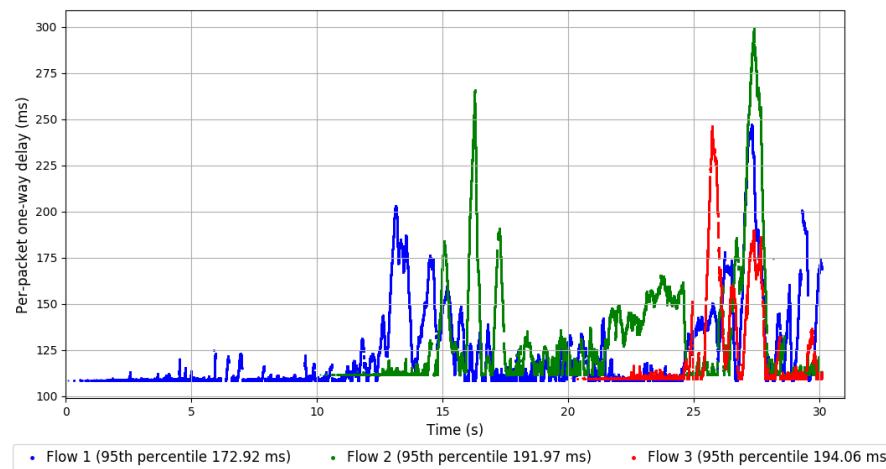
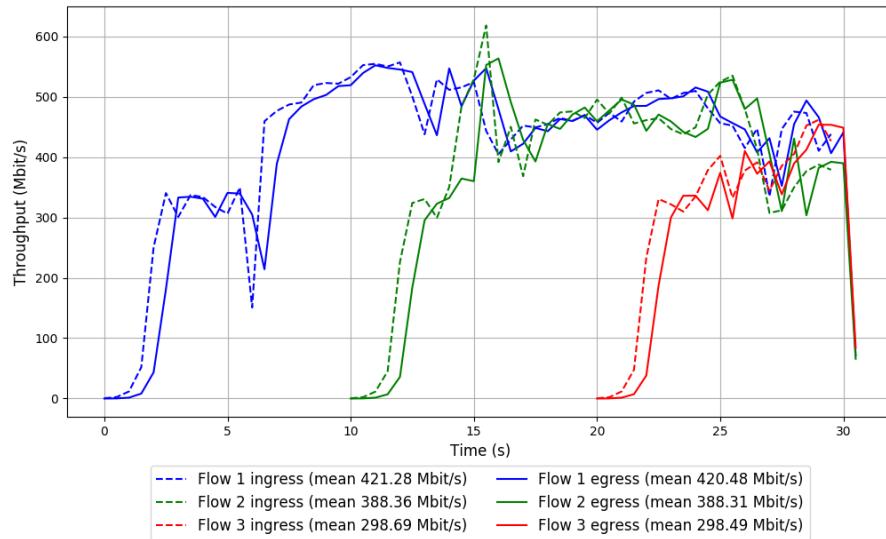


Run 3: Statistics of TCP Cubic

```
Start at: 2019-03-09 01:38:57
End at: 2019-03-09 01:39:27
Local clock offset: -0.167 ms
Remote clock offset: -0.084 ms

# Below is generated by plot.py at 2019-03-09 04:06:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 778.22 Mbit/s
95th percentile per-packet one-way delay: 180.870 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 420.48 Mbit/s
95th percentile per-packet one-way delay: 172.921 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 388.31 Mbit/s
95th percentile per-packet one-way delay: 191.968 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 298.49 Mbit/s
95th percentile per-packet one-way delay: 194.058 ms
Loss rate: 0.06%
```

Run 3: Report of TCP Cubic — Data Link

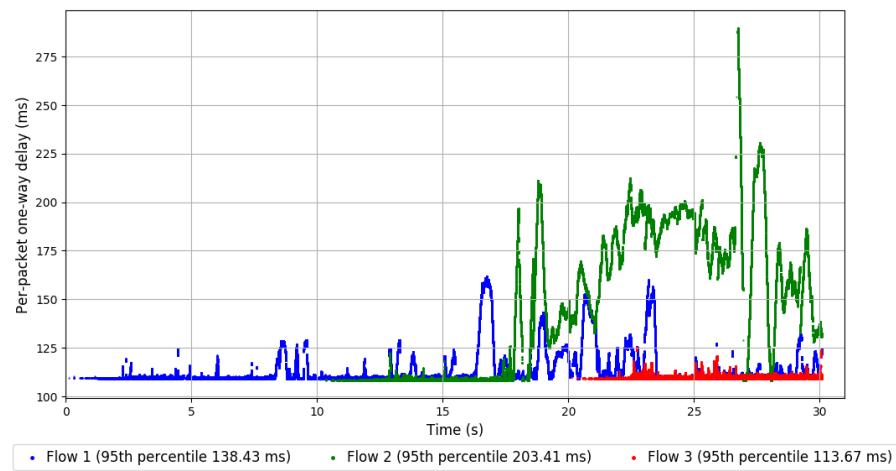
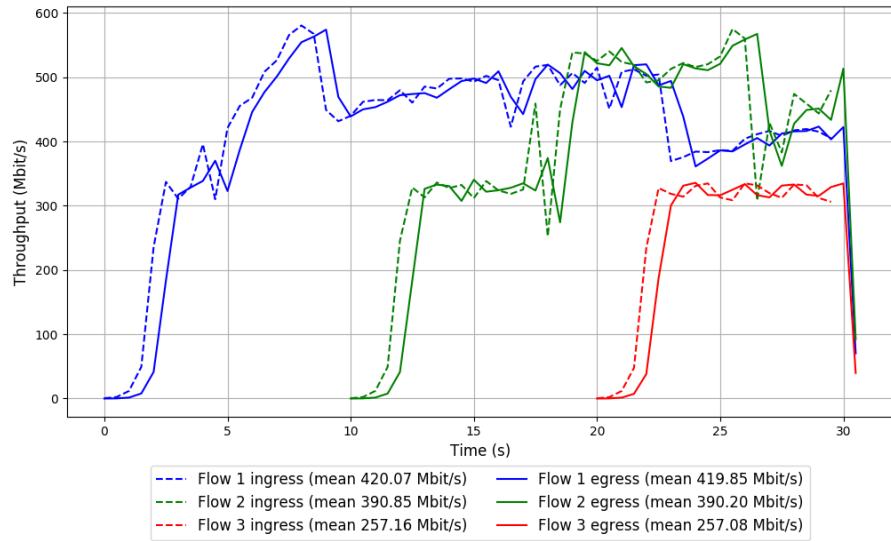


Run 4: Statistics of TCP Cubic

```
Start at: 2019-03-09 02:16:42
End at: 2019-03-09 02:17:12
Local clock offset: -0.131 ms
Remote clock offset: -0.083 ms

# Below is generated by plot.py at 2019-03-09 04:06:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 765.13 Mbit/s
95th percentile per-packet one-way delay: 193.095 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 419.85 Mbit/s
95th percentile per-packet one-way delay: 138.425 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 390.20 Mbit/s
95th percentile per-packet one-way delay: 203.406 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 257.08 Mbit/s
95th percentile per-packet one-way delay: 113.667 ms
Loss rate: 0.02%
```

Run 4: Report of TCP Cubic — Data Link

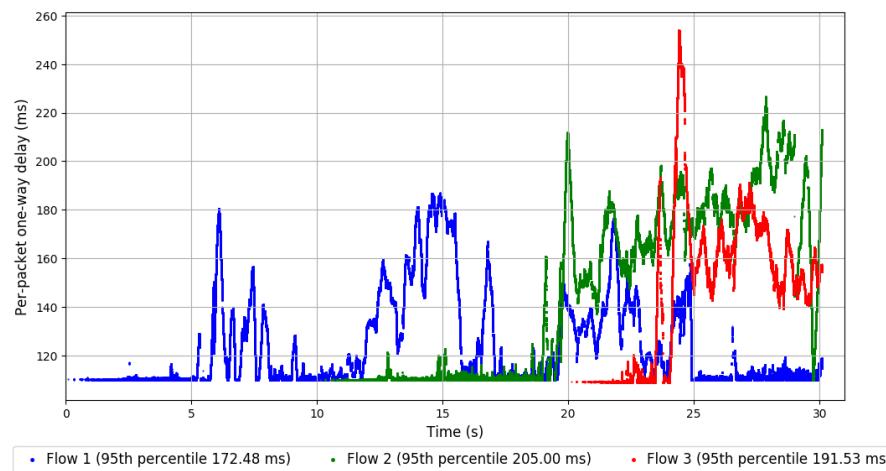
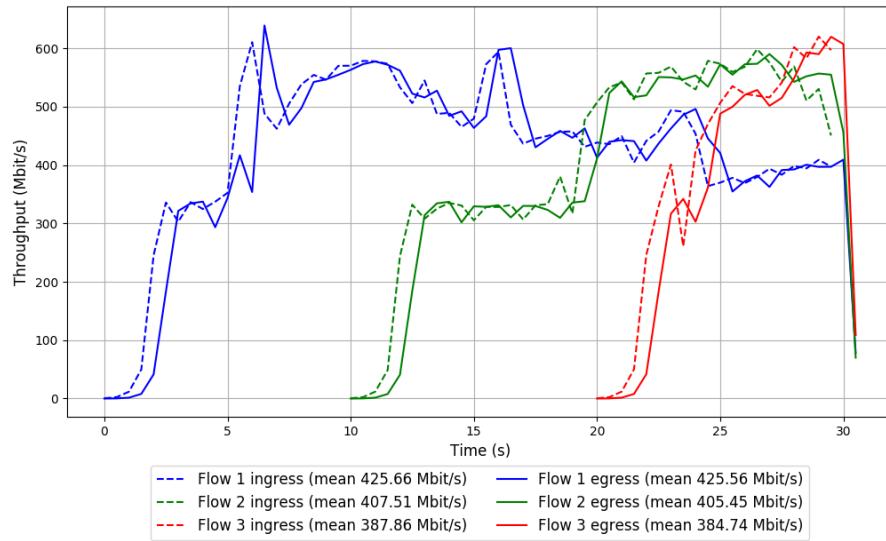


Run 5: Statistics of TCP Cubic

```
Start at: 2019-03-09 02:54:17
End at: 2019-03-09 02:54:47
Local clock offset: -0.692 ms
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2019-03-09 04:07:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 823.67 Mbit/s
95th percentile per-packet one-way delay: 193.706 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 425.56 Mbit/s
95th percentile per-packet one-way delay: 172.484 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 405.45 Mbit/s
95th percentile per-packet one-way delay: 205.000 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 384.74 Mbit/s
95th percentile per-packet one-way delay: 191.531 ms
Loss rate: 0.78%
```

Run 5: Report of TCP Cubic — Data Link

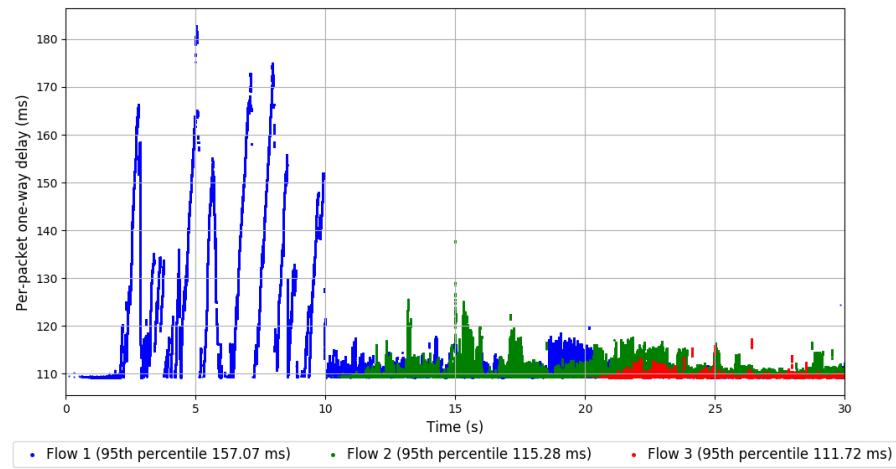
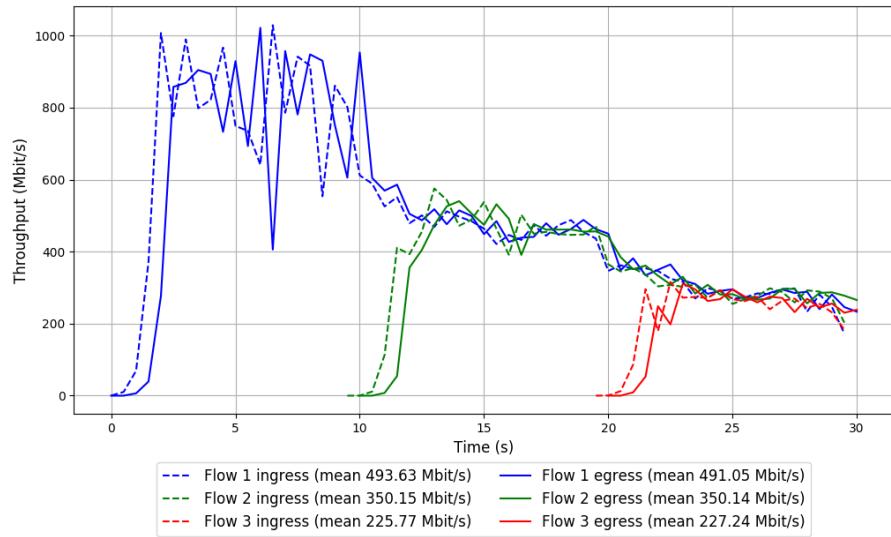


```
Run 1: Statistics of FillP

Start at: 2019-03-09 00:20:57
End at: 2019-03-09 00:21:27
Local clock offset: -0.212 ms
Remote clock offset: 0.048 ms

# Below is generated by plot.py at 2019-03-09 04:09:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 799.56 Mbit/s
95th percentile per-packet one-way delay: 150.568 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 491.05 Mbit/s
95th percentile per-packet one-way delay: 157.075 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 350.14 Mbit/s
95th percentile per-packet one-way delay: 115.280 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 227.24 Mbit/s
95th percentile per-packet one-way delay: 111.716 ms
Loss rate: 0.00%
```

Run 1: Report of FillP — Data Link

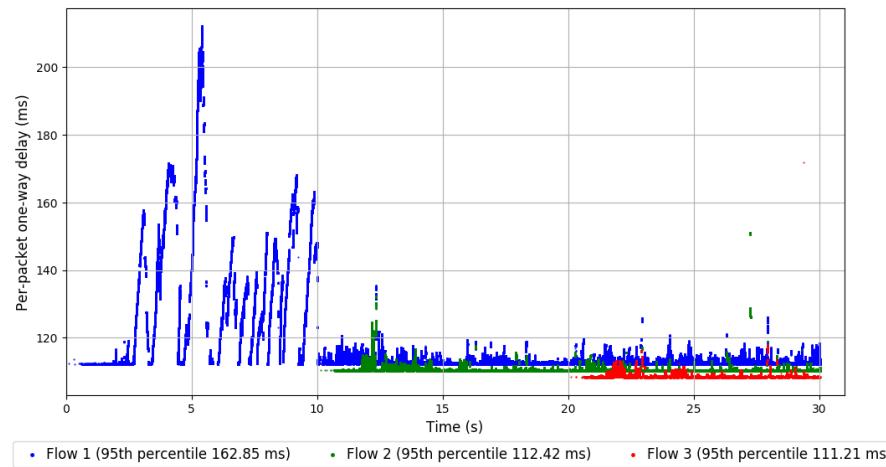
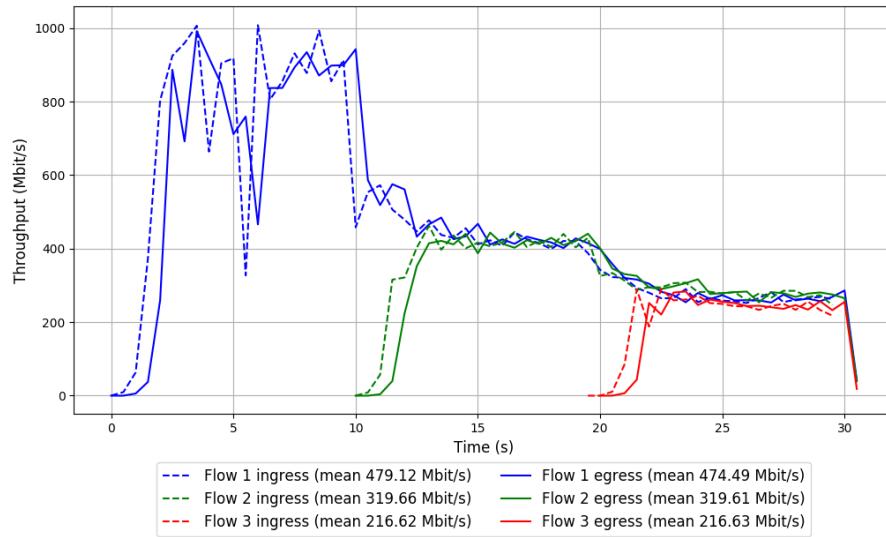


Run 2: Statistics of FillP

```
Start at: 2019-03-09 00:57:54
End at: 2019-03-09 00:58:24
Local clock offset: -0.156 ms
Remote clock offset: -0.063 ms

# Below is generated by plot.py at 2019-03-09 04:19:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 758.97 Mbit/s
95th percentile per-packet one-way delay: 157.373 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 474.49 Mbit/s
95th percentile per-packet one-way delay: 162.846 ms
Loss rate: 0.96%
-- Flow 2:
Average throughput: 319.61 Mbit/s
95th percentile per-packet one-way delay: 112.418 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 216.63 Mbit/s
95th percentile per-packet one-way delay: 111.210 ms
Loss rate: 0.00%
```

Run 2: Report of FillP — Data Link

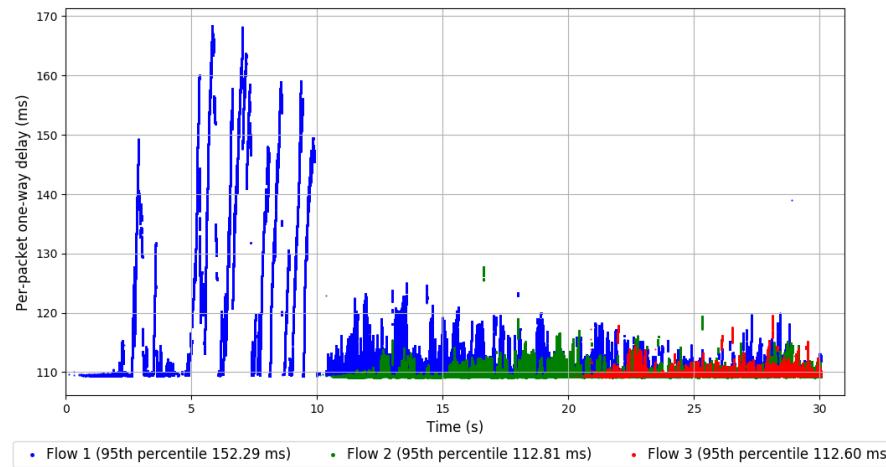
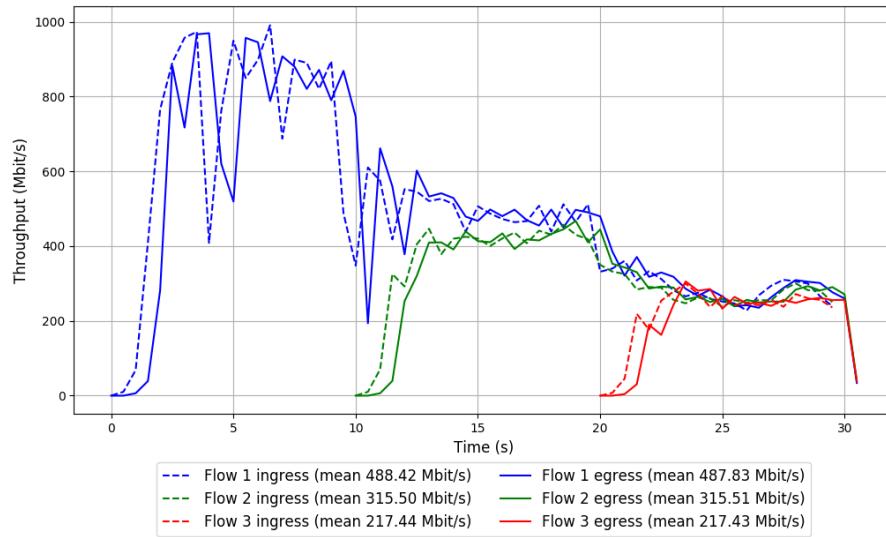


Run 3: Statistics of FillP

```
Start at: 2019-03-09 01:35:09
End at: 2019-03-09 01:35:39
Local clock offset: -0.123 ms
Remote clock offset: -0.11 ms

# Below is generated by plot.py at 2019-03-09 04:20:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 769.65 Mbit/s
95th percentile per-packet one-way delay: 147.434 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 487.83 Mbit/s
95th percentile per-packet one-way delay: 152.292 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 315.51 Mbit/s
95th percentile per-packet one-way delay: 112.808 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 217.43 Mbit/s
95th percentile per-packet one-way delay: 112.603 ms
Loss rate: 0.00%
```

Run 3: Report of FillP — Data Link

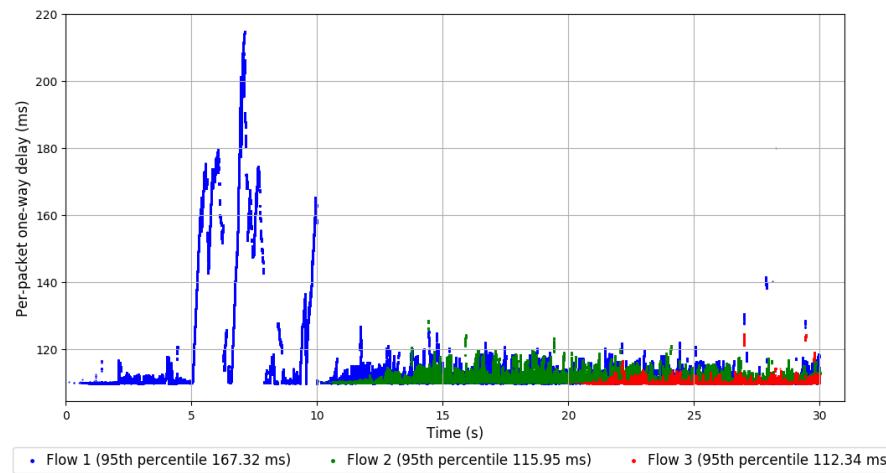
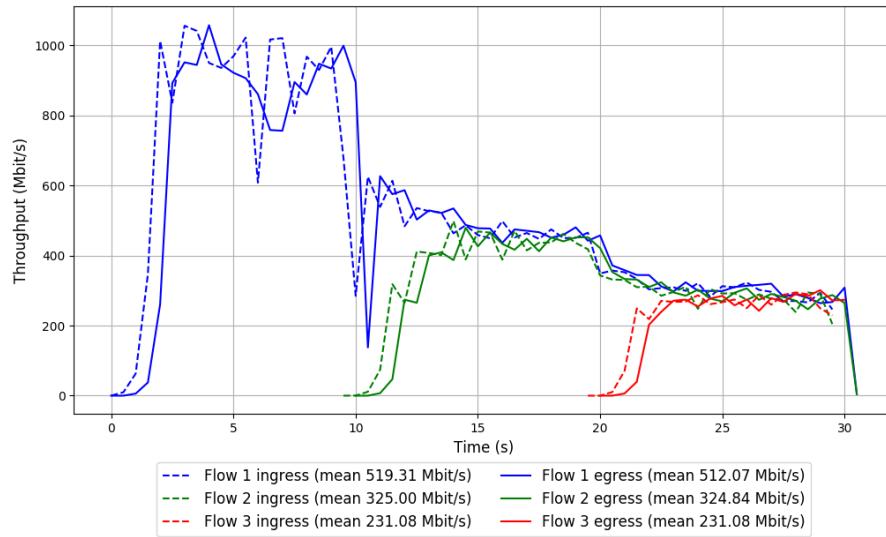


Run 4: Statistics of FillP

```
Start at: 2019-03-09 02:12:44
End at: 2019-03-09 02:13:14
Local clock offset: -0.99 ms
Remote clock offset: -0.118 ms

# Below is generated by plot.py at 2019-03-09 04:21:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 805.48 Mbit/s
95th percentile per-packet one-way delay: 158.872 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 512.07 Mbit/s
95th percentile per-packet one-way delay: 167.318 ms
Loss rate: 1.39%
-- Flow 2:
Average throughput: 324.84 Mbit/s
95th percentile per-packet one-way delay: 115.954 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 231.08 Mbit/s
95th percentile per-packet one-way delay: 112.342 ms
Loss rate: 0.00%
```

Run 4: Report of FillP — Data Link

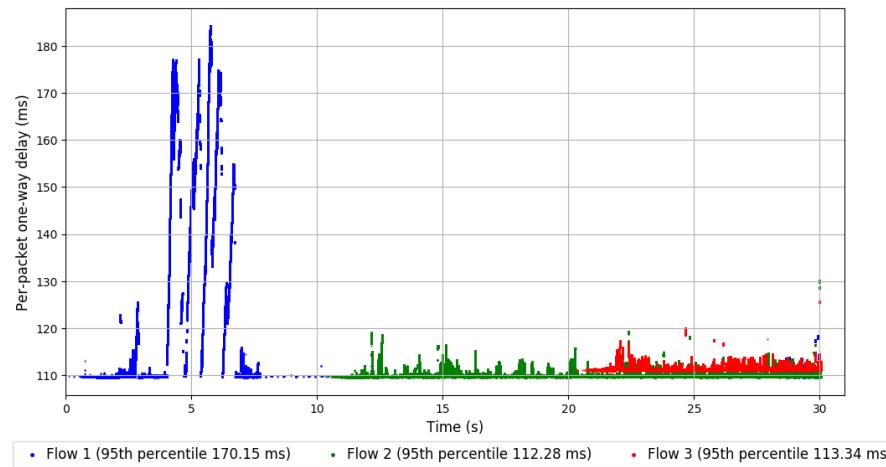
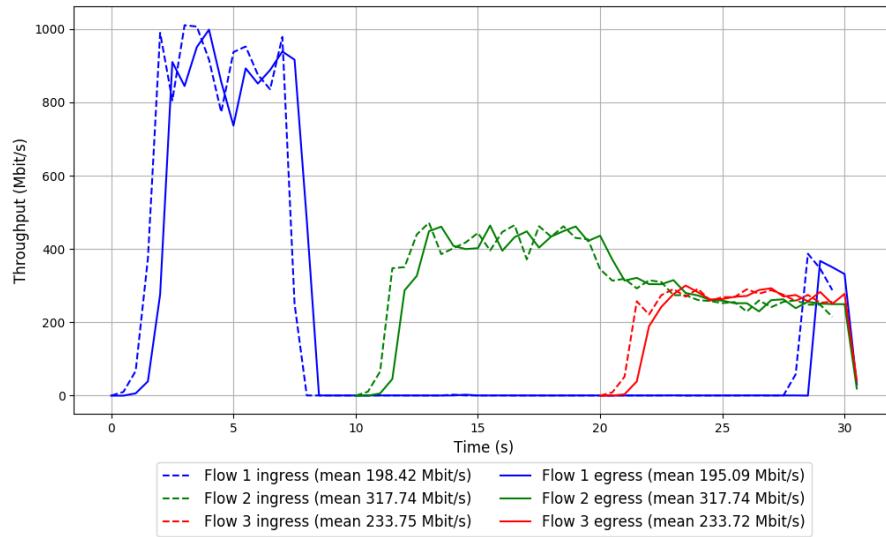


```
Run 5: Statistics of FillP
```

```
Start at: 2019-03-09 02:50:42
End at: 2019-03-09 02:51:12
Local clock offset: -0.284 ms
Remote clock offset: -0.078 ms

# Below is generated by plot.py at 2019-03-09 04:21:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 483.79 Mbit/s
95th percentile per-packet one-way delay: 157.747 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 195.09 Mbit/s
95th percentile per-packet one-way delay: 170.150 ms
Loss rate: 1.68%
-- Flow 2:
Average throughput: 317.74 Mbit/s
95th percentile per-packet one-way delay: 112.283 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 233.72 Mbit/s
95th percentile per-packet one-way delay: 113.336 ms
Loss rate: 0.00%
```

Run 5: Report of FillP — Data Link

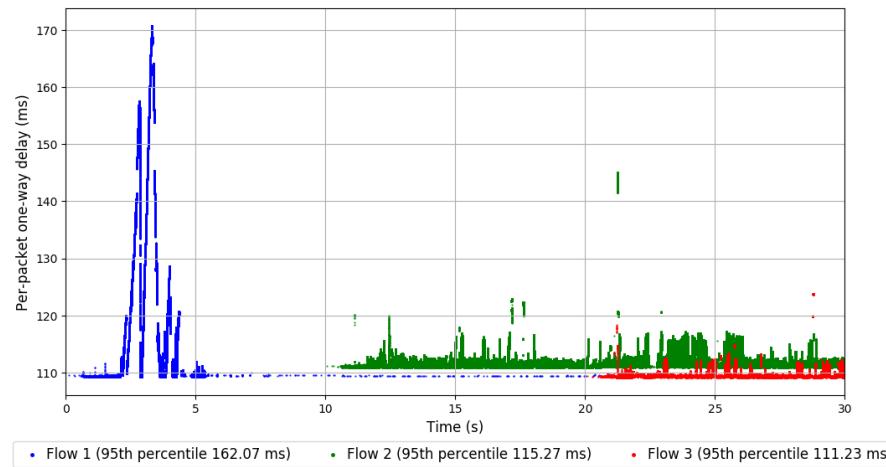
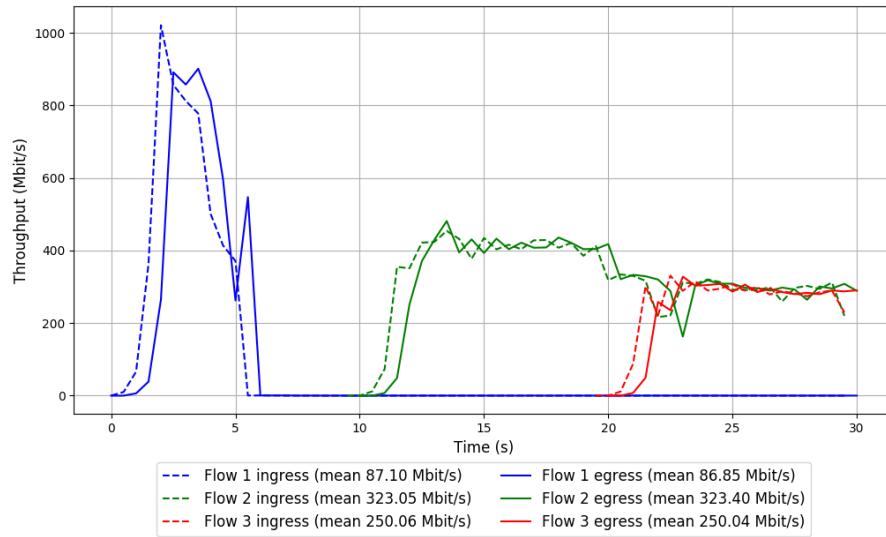


Run 1: Statistics of FillP-Sheep

```
Start at: 2019-03-09 00:28:38
End at: 2019-03-09 00:29:08
Local clock offset: -0.236 ms
Remote clock offset: 0.009 ms

# Below is generated by plot.py at 2019-03-09 04:21:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 385.46 Mbit/s
95th percentile per-packet one-way delay: 132.408 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 86.85 Mbit/s
95th percentile per-packet one-way delay: 162.072 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 323.40 Mbit/s
95th percentile per-packet one-way delay: 115.269 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 250.04 Mbit/s
95th percentile per-packet one-way delay: 111.234 ms
Loss rate: 0.00%
```

Run 1: Report of FillP-Sheep — Data Link

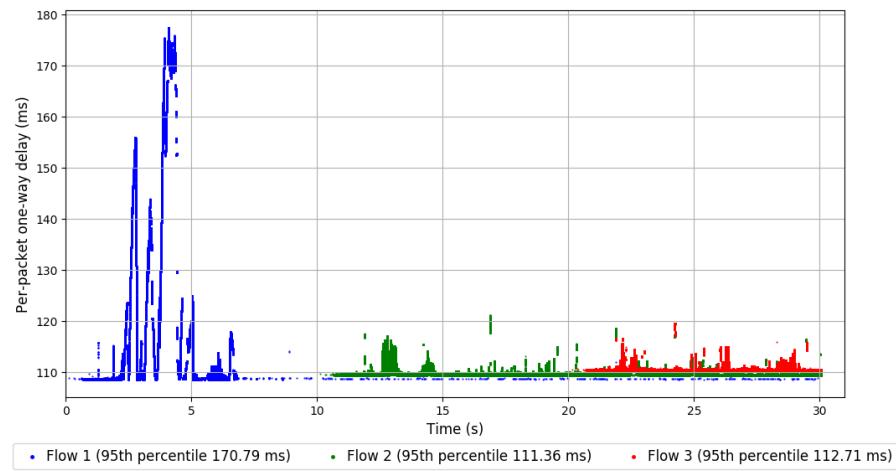
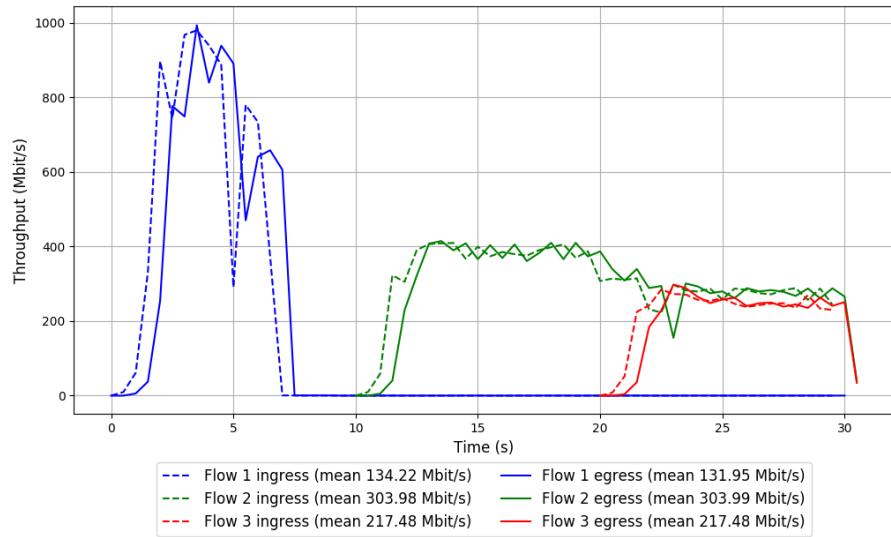


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-03-09 01:05:35
End at: 2019-03-09 01:06:05
Local clock offset: -0.275 ms
Remote clock offset: -0.055 ms

# Below is generated by plot.py at 2019-03-09 04:21:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 405.69 Mbit/s
95th percentile per-packet one-way delay: 150.122 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 131.95 Mbit/s
95th percentile per-packet one-way delay: 170.794 ms
Loss rate: 1.70%
-- Flow 2:
Average throughput: 303.99 Mbit/s
95th percentile per-packet one-way delay: 111.364 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 217.48 Mbit/s
95th percentile per-packet one-way delay: 112.713 ms
Loss rate: 0.00%
```

Run 2: Report of FillP-Sheep — Data Link

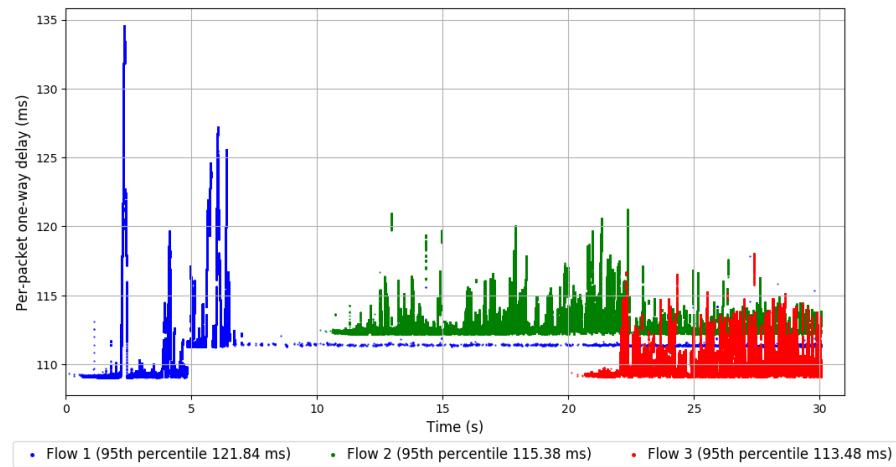
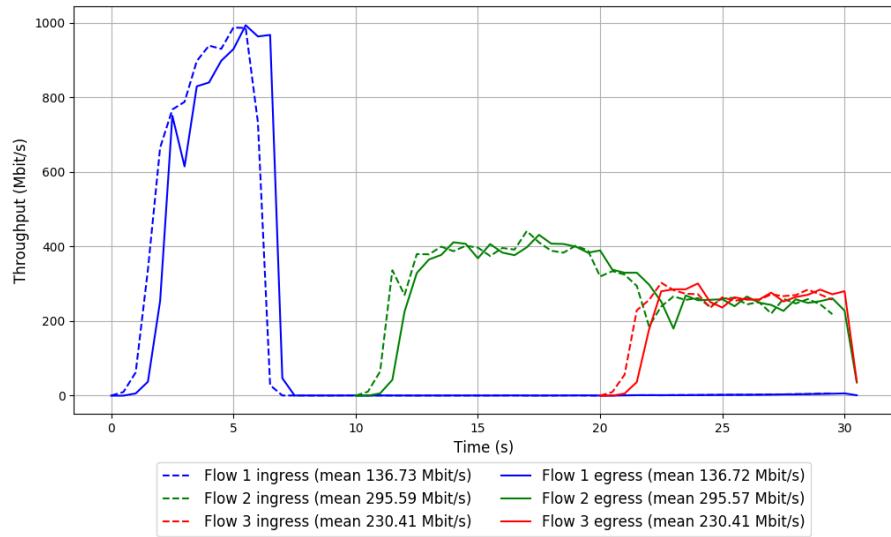


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-03-09 01:42:52
End at: 2019-03-09 01:43:22
Local clock offset: -0.176 ms
Remote clock offset: -0.077 ms

# Below is generated by plot.py at 2019-03-09 04:21:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 409.84 Mbit/s
95th percentile per-packet one-way delay: 117.734 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 136.72 Mbit/s
95th percentile per-packet one-way delay: 121.837 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 295.57 Mbit/s
95th percentile per-packet one-way delay: 115.377 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 230.41 Mbit/s
95th percentile per-packet one-way delay: 113.484 ms
Loss rate: 0.00%
```

Run 3: Report of FillP-Sheep — Data Link

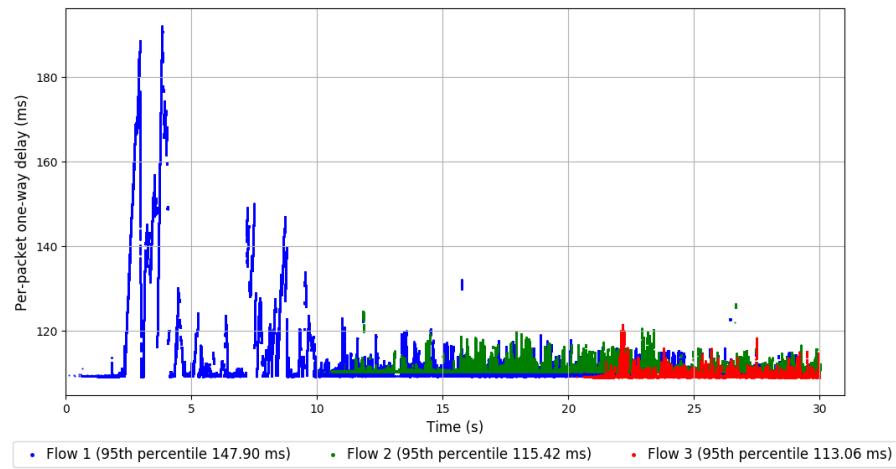
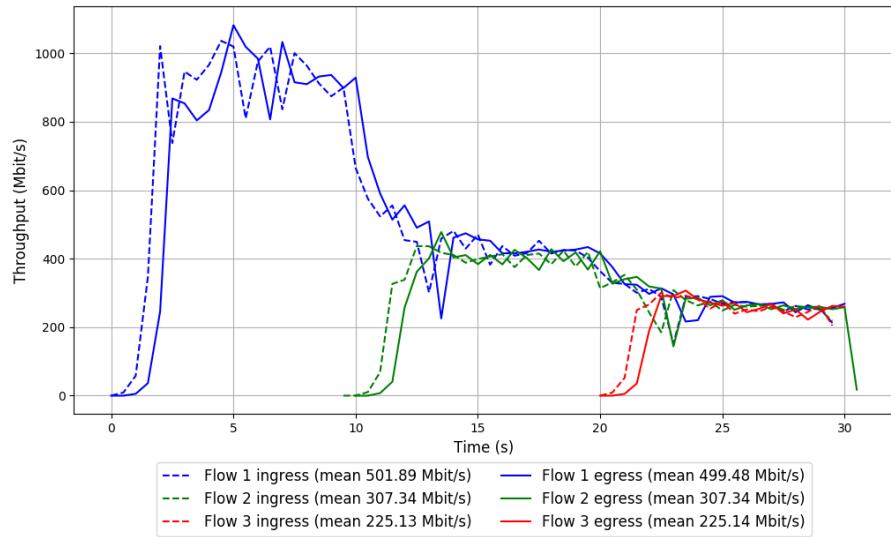


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-03-09 02:20:37
End at: 2019-03-09 02:21:07
Local clock offset: -0.145 ms
Remote clock offset: -0.124 ms

# Below is generated by plot.py at 2019-03-09 04:26:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 778.58 Mbit/s
95th percentile per-packet one-way delay: 139.735 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 499.48 Mbit/s
95th percentile per-packet one-way delay: 147.902 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 307.34 Mbit/s
95th percentile per-packet one-way delay: 115.421 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 225.14 Mbit/s
95th percentile per-packet one-way delay: 113.060 ms
Loss rate: 0.00%
```

Run 4: Report of FillP-Sheep — Data Link

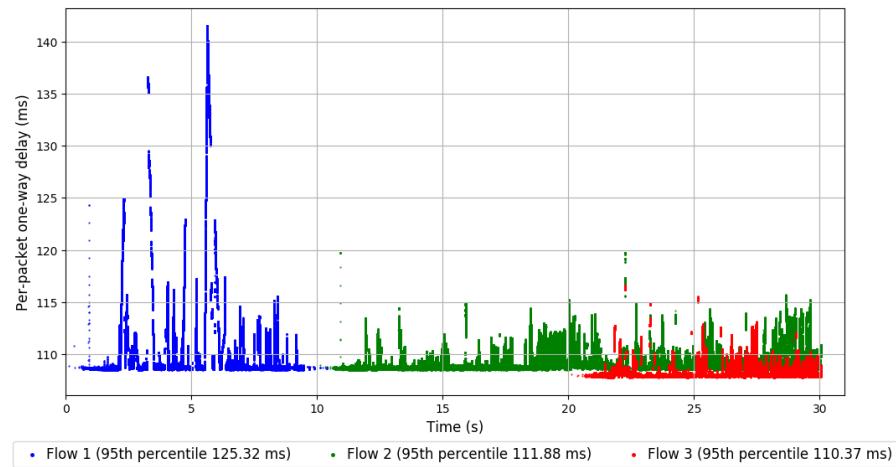
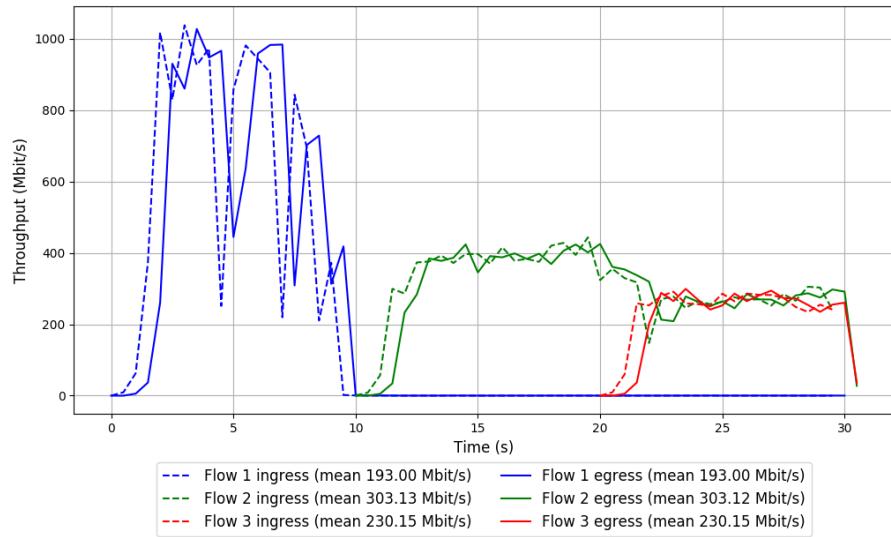


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-03-09 02:58:16
End at: 2019-03-09 02:58:46
Local clock offset: 0.02 ms
Remote clock offset: -0.44 ms

# Below is generated by plot.py at 2019-03-09 04:26:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 470.37 Mbit/s
95th percentile per-packet one-way delay: 116.498 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 193.00 Mbit/s
95th percentile per-packet one-way delay: 125.321 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 303.12 Mbit/s
95th percentile per-packet one-way delay: 111.876 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 230.15 Mbit/s
95th percentile per-packet one-way delay: 110.371 ms
Loss rate: 0.00%
```

Run 5: Report of FillP-Sheep — Data Link

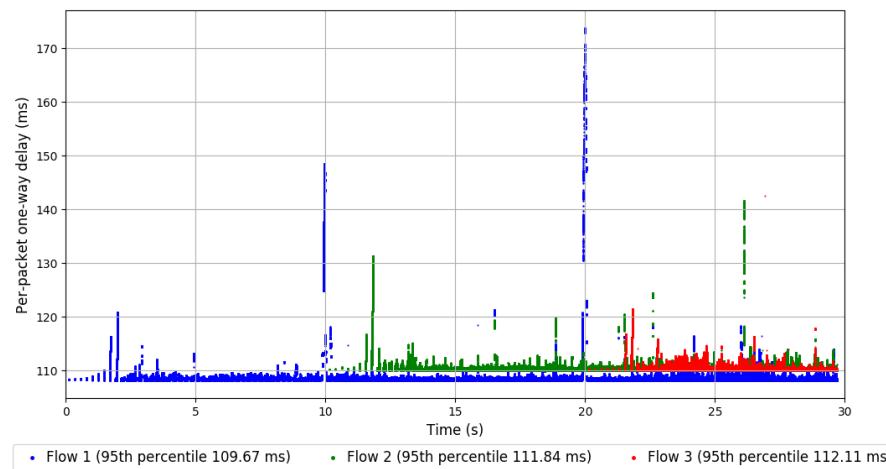
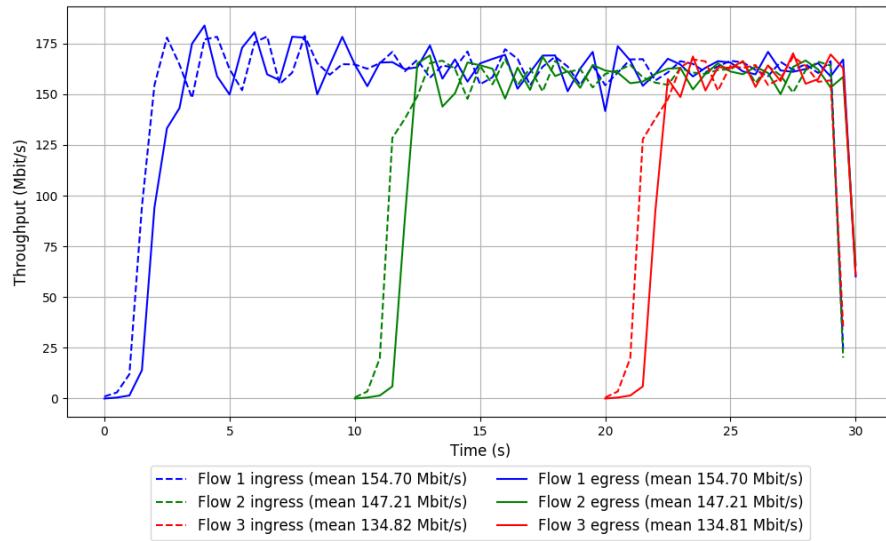


Run 1: Statistics of Indigo

```
Start at: 2019-03-09 00:37:00
End at: 2019-03-09 00:37:30
Local clock offset: -0.13 ms
Remote clock offset: -0.042 ms

# Below is generated by plot.py at 2019-03-09 04:26:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 295.29 Mbit/s
95th percentile per-packet one-way delay: 111.421 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 154.70 Mbit/s
95th percentile per-packet one-way delay: 109.665 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 147.21 Mbit/s
95th percentile per-packet one-way delay: 111.842 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 134.81 Mbit/s
95th percentile per-packet one-way delay: 112.112 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo — Data Link

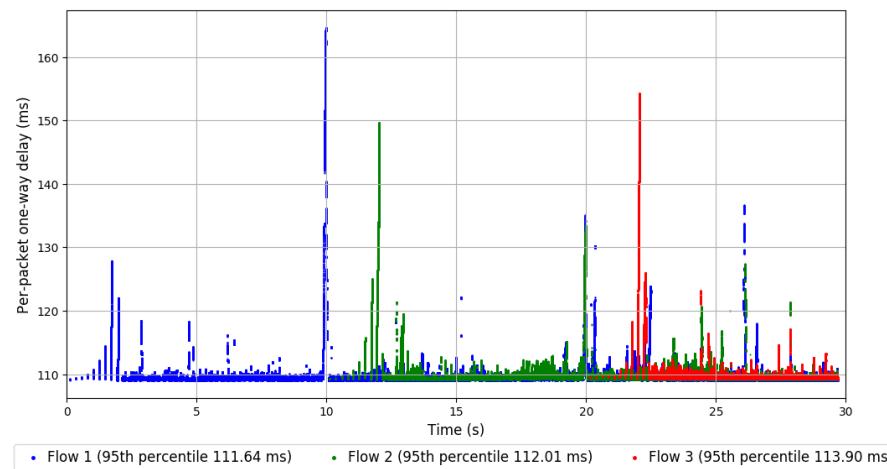
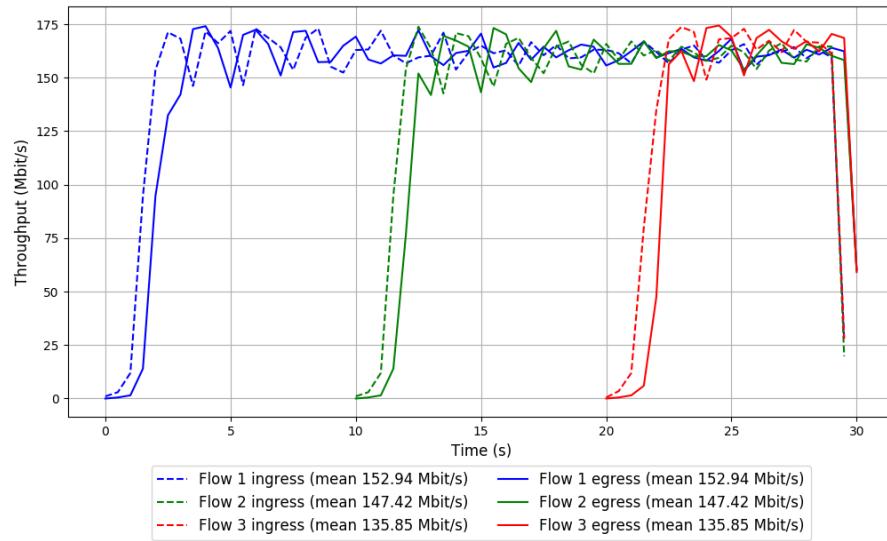


Run 2: Statistics of Indigo

```
Start at: 2019-03-09 01:14:28
End at: 2019-03-09 01:14:58
Local clock offset: -0.029 ms
Remote clock offset: -0.096 ms

# Below is generated by plot.py at 2019-03-09 04:26:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 294.20 Mbit/s
95th percentile per-packet one-way delay: 112.057 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 152.94 Mbit/s
95th percentile per-packet one-way delay: 111.636 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 147.42 Mbit/s
95th percentile per-packet one-way delay: 112.013 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 135.85 Mbit/s
95th percentile per-packet one-way delay: 113.898 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo — Data Link

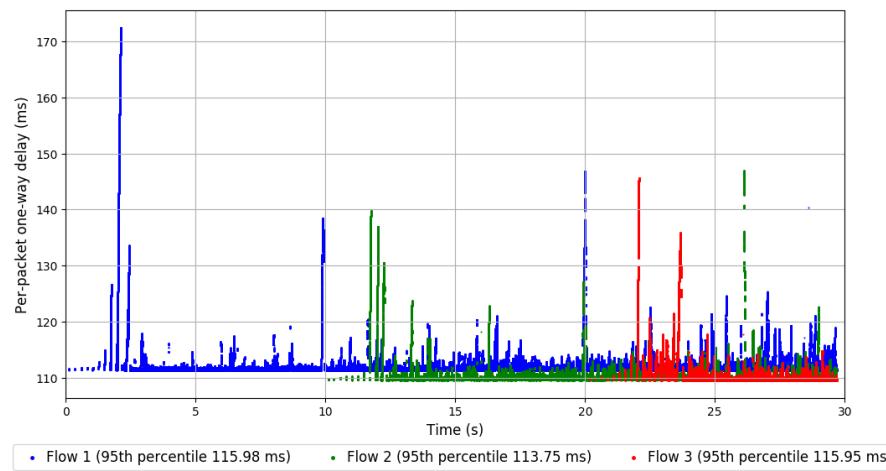
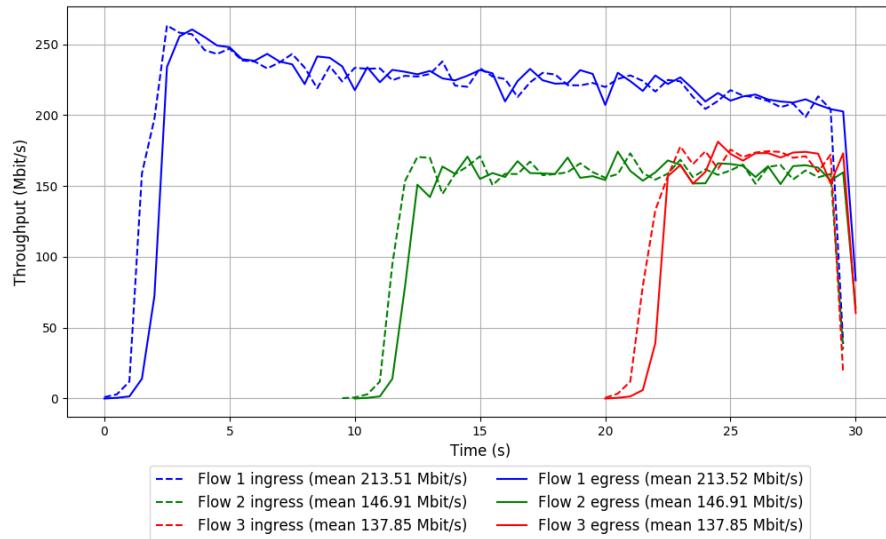


Run 3: Statistics of Indigo

```
Start at: 2019-03-09 01:51:45
End at: 2019-03-09 01:52:15
Local clock offset: -0.289 ms
Remote clock offset: -0.124 ms

# Below is generated by plot.py at 2019-03-09 04:28:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 355.13 Mbit/s
95th percentile per-packet one-way delay: 115.522 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 213.52 Mbit/s
95th percentile per-packet one-way delay: 115.984 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 146.91 Mbit/s
95th percentile per-packet one-way delay: 113.746 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 137.85 Mbit/s
95th percentile per-packet one-way delay: 115.947 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo — Data Link

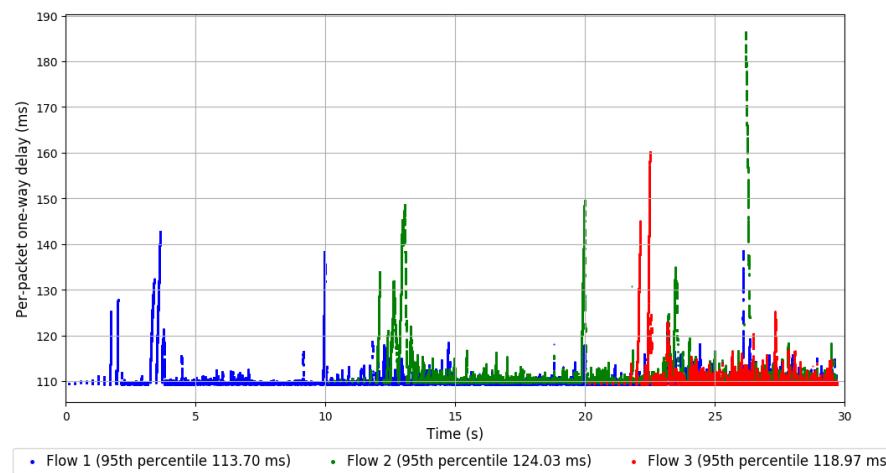
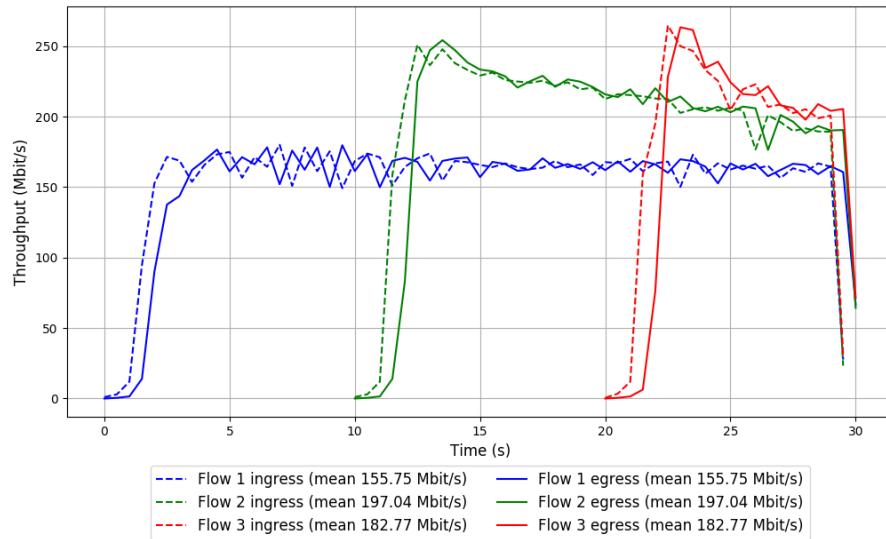


Run 4: Statistics of Indigo

```
Start at: 2019-03-09 02:29:47
End at: 2019-03-09 02:30:17
Local clock offset: -0.136 ms
Remote clock offset: 0.258 ms

# Below is generated by plot.py at 2019-03-09 04:30:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 345.07 Mbit/s
95th percentile per-packet one-way delay: 117.557 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 155.75 Mbit/s
95th percentile per-packet one-way delay: 113.697 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 197.04 Mbit/s
95th percentile per-packet one-way delay: 124.032 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 182.77 Mbit/s
95th percentile per-packet one-way delay: 118.970 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo — Data Link

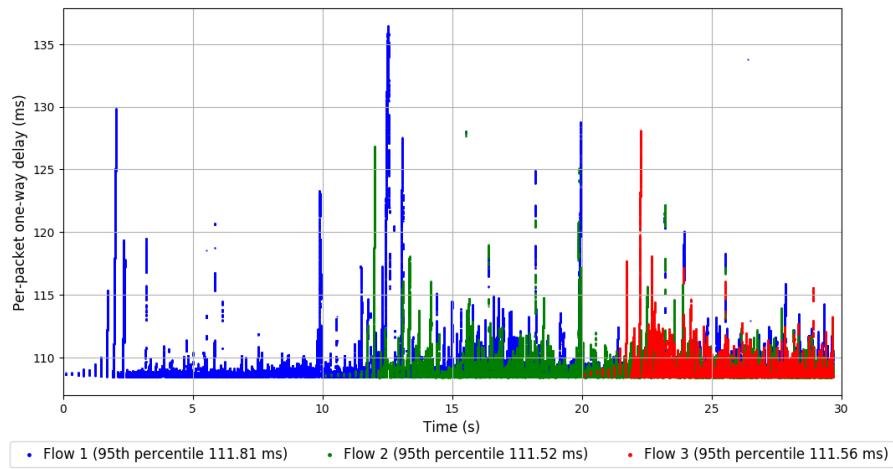
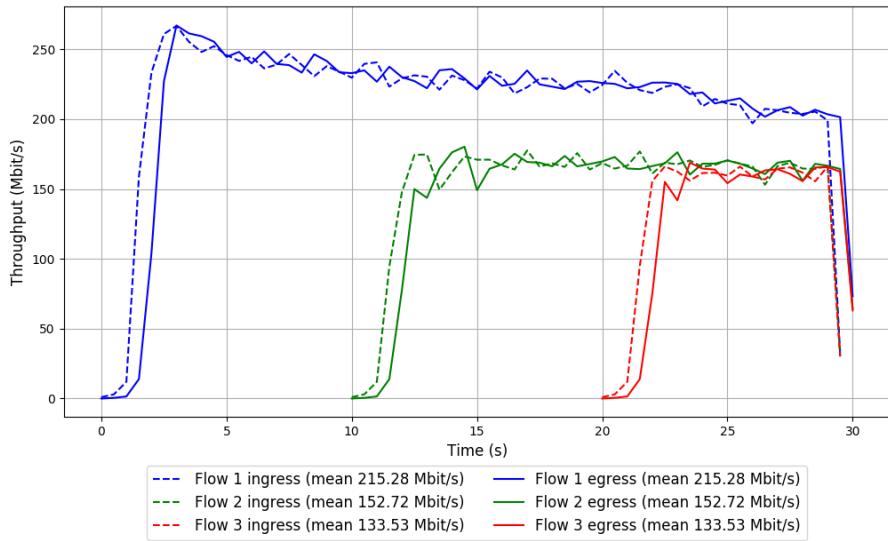


Run 5: Statistics of Indigo

```
Start at: 2019-03-09 03:06:58
End at: 2019-03-09 03:07:28
Local clock offset: 0.561 ms
Remote clock offset: -0.013 ms

# Below is generated by plot.py at 2019-03-09 04:32:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 359.57 Mbit/s
95th percentile per-packet one-way delay: 111.692 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 215.28 Mbit/s
95th percentile per-packet one-way delay: 111.813 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 152.72 Mbit/s
95th percentile per-packet one-way delay: 111.522 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 133.53 Mbit/s
95th percentile per-packet one-way delay: 111.558 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo — Data Link

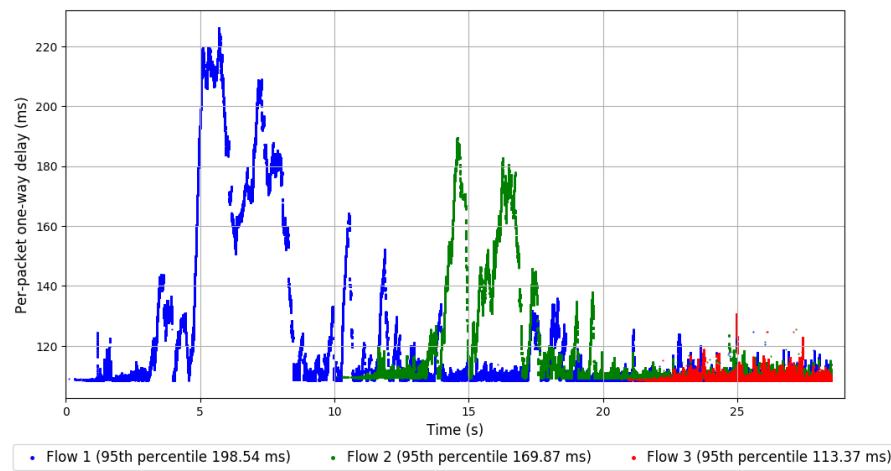
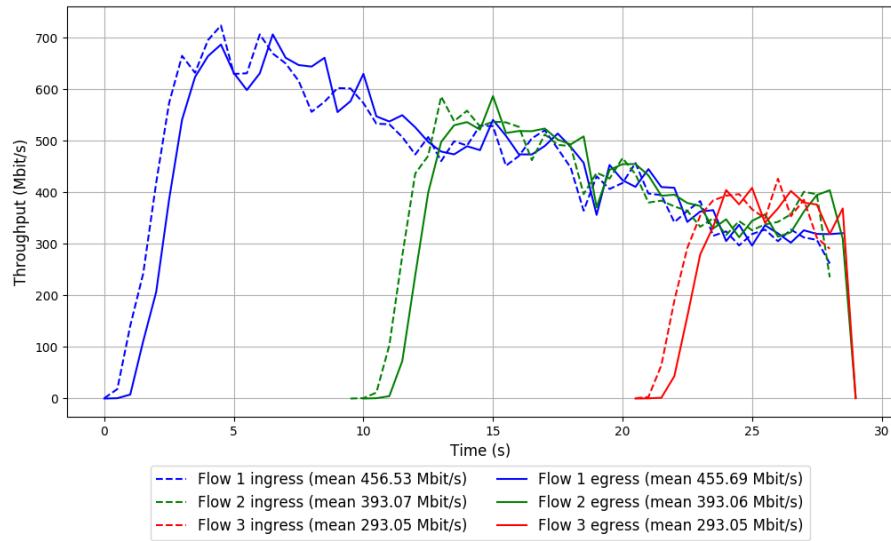


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-03-09 00:32:57
End at: 2019-03-09 00:33:27
Local clock offset: 0.115 ms
Remote clock offset: 0.38 ms

# Below is generated by plot.py at 2019-03-09 04:35:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 790.75 Mbit/s
95th percentile per-packet one-way delay: 182.608 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 455.69 Mbit/s
95th percentile per-packet one-way delay: 198.536 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 393.06 Mbit/s
95th percentile per-packet one-way delay: 169.867 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 293.05 Mbit/s
95th percentile per-packet one-way delay: 113.373 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-MusesC3 — Data Link

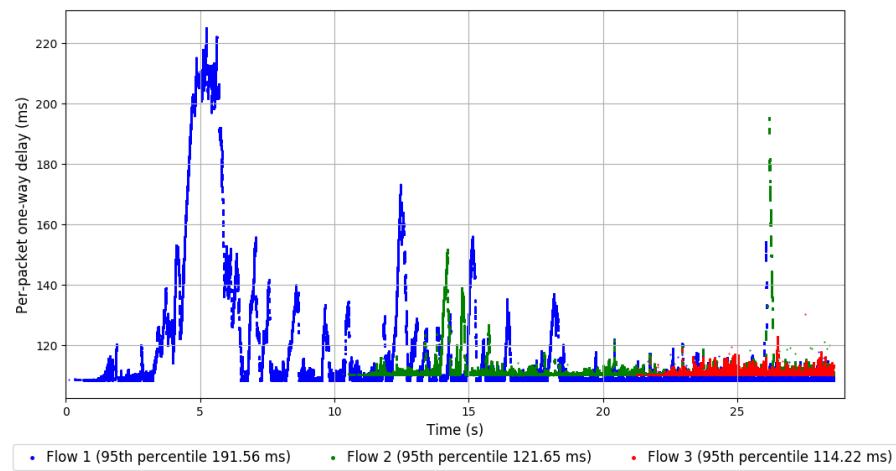
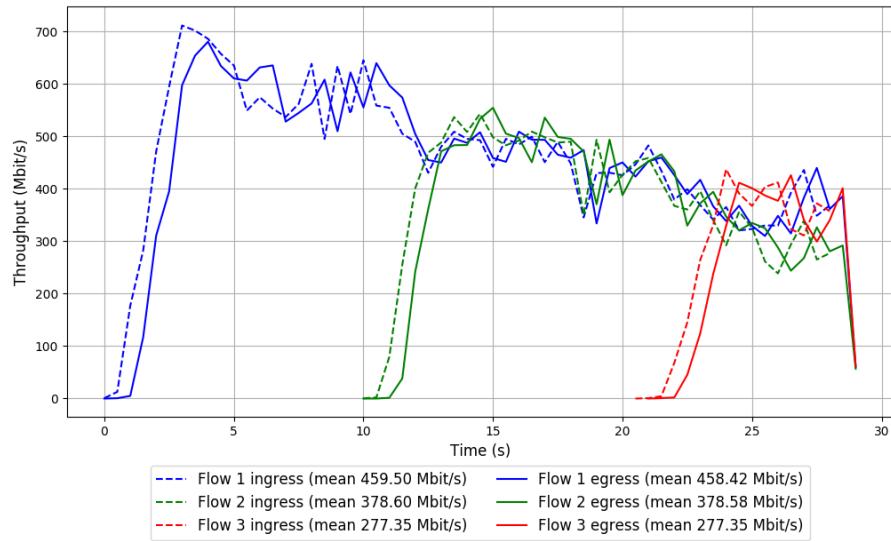


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-03-09 01:10:27
End at: 2019-03-09 01:10:57
Local clock offset: -0.195 ms
Remote clock offset: -0.122 ms

# Below is generated by plot.py at 2019-03-09 04:38:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 774.74 Mbit/s
95th percentile per-packet one-way delay: 151.786 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 458.42 Mbit/s
95th percentile per-packet one-way delay: 191.561 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 378.58 Mbit/s
95th percentile per-packet one-way delay: 121.648 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 277.35 Mbit/s
95th percentile per-packet one-way delay: 114.223 ms
Loss rate: 0.06%
```

Run 2: Report of Indigo-MusesC3 — Data Link

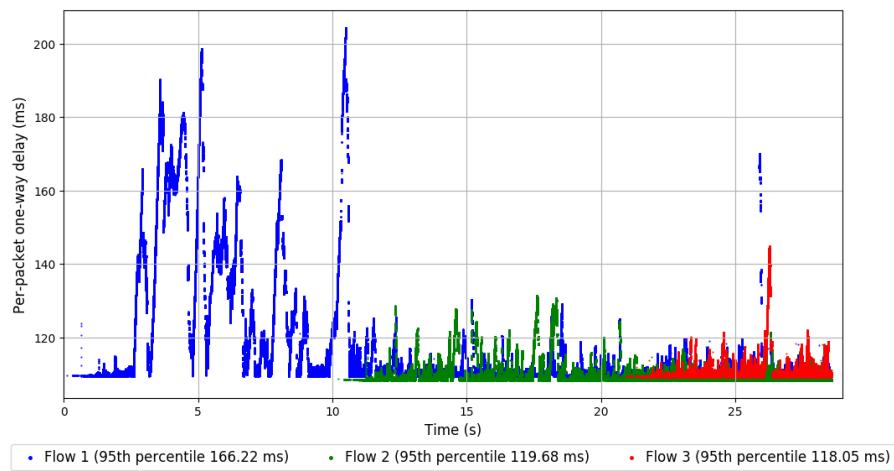
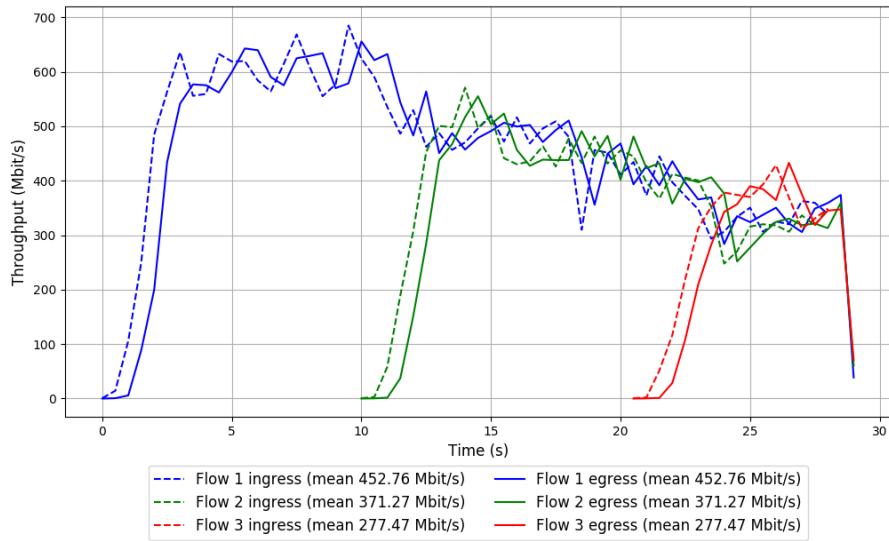


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-03-09 01:47:44
End at: 2019-03-09 01:48:14
Local clock offset: -0.254 ms
Remote clock offset: -0.126 ms

# Below is generated by plot.py at 2019-03-09 04:38:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 768.61 Mbit/s
95th percentile per-packet one-way delay: 157.098 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 452.76 Mbit/s
95th percentile per-packet one-way delay: 166.219 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 371.27 Mbit/s
95th percentile per-packet one-way delay: 119.684 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 277.47 Mbit/s
95th percentile per-packet one-way delay: 118.052 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo-MusesC3 — Data Link

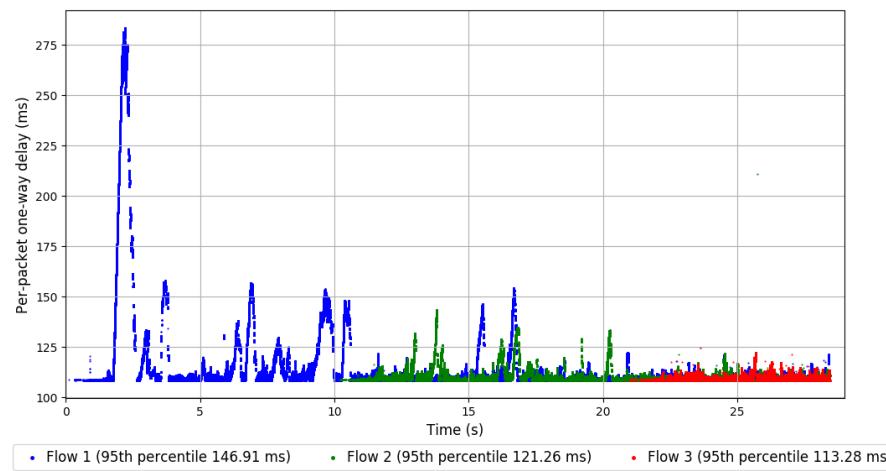
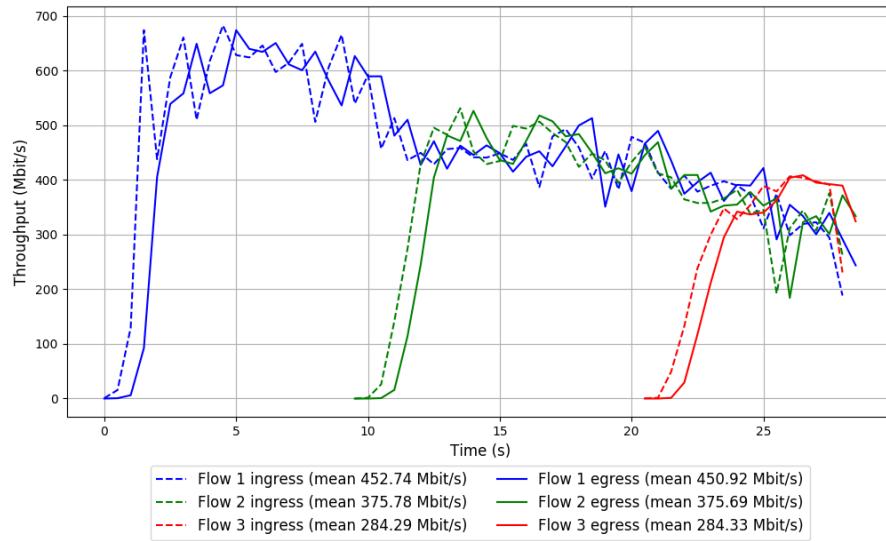


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-03-09 02:25:46
End at: 2019-03-09 02:26:16
Local clock offset: 0.425 ms
Remote clock offset: -0.125 ms

# Below is generated by plot.py at 2019-03-09 04:39:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 772.23 Mbit/s
95th percentile per-packet one-way delay: 136.940 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 450.92 Mbit/s
95th percentile per-packet one-way delay: 146.908 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 375.69 Mbit/s
95th percentile per-packet one-way delay: 121.256 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 284.33 Mbit/s
95th percentile per-packet one-way delay: 113.277 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo-MusesC3 — Data Link

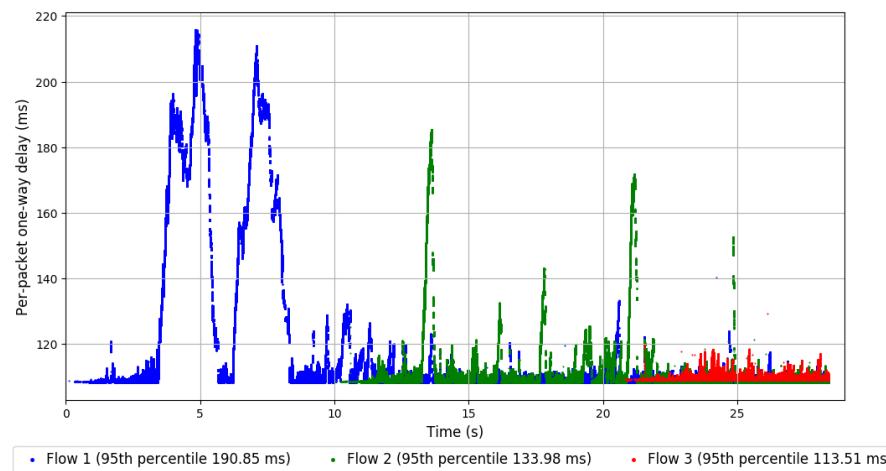
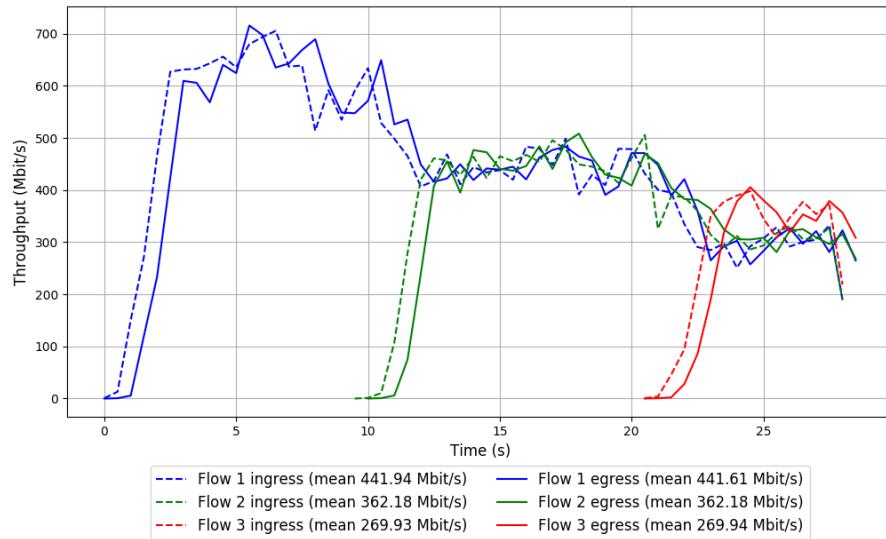


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-03-09 03:02:56
End at: 2019-03-09 03:03:26
Local clock offset: -0.202 ms
Remote clock offset: -0.086 ms

# Below is generated by plot.py at 2019-03-09 04:40:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 751.19 Mbit/s
95th percentile per-packet one-way delay: 183.789 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 441.61 Mbit/s
95th percentile per-packet one-way delay: 190.851 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 362.18 Mbit/s
95th percentile per-packet one-way delay: 133.983 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 269.94 Mbit/s
95th percentile per-packet one-way delay: 113.508 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

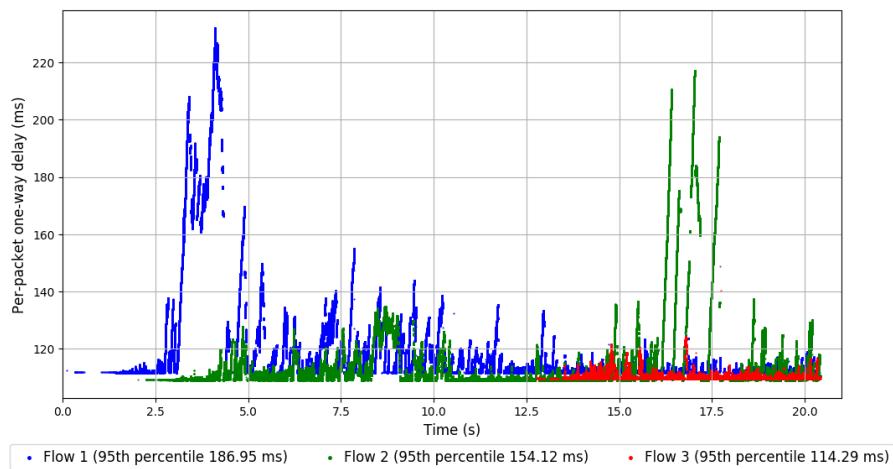
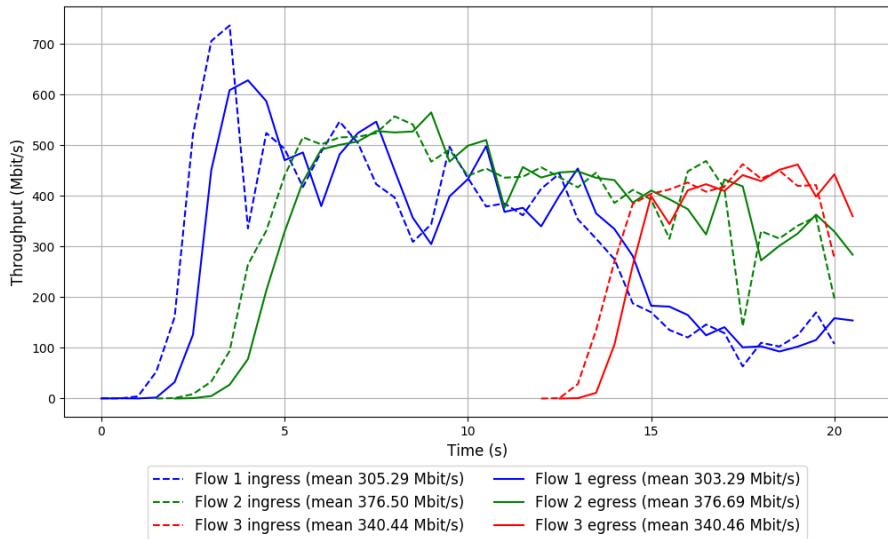
Start at: 2019-03-09 00:15:40

End at: 2019-03-09 00:16:10

Local clock offset: -0.085 ms

Remote clock offset: 0.118 ms

Run 1: Report of Indigo-MusesC5 — Data Link

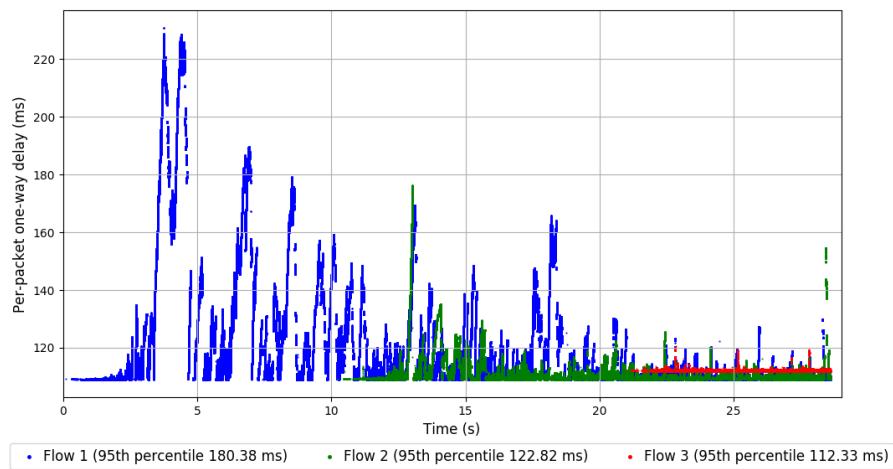
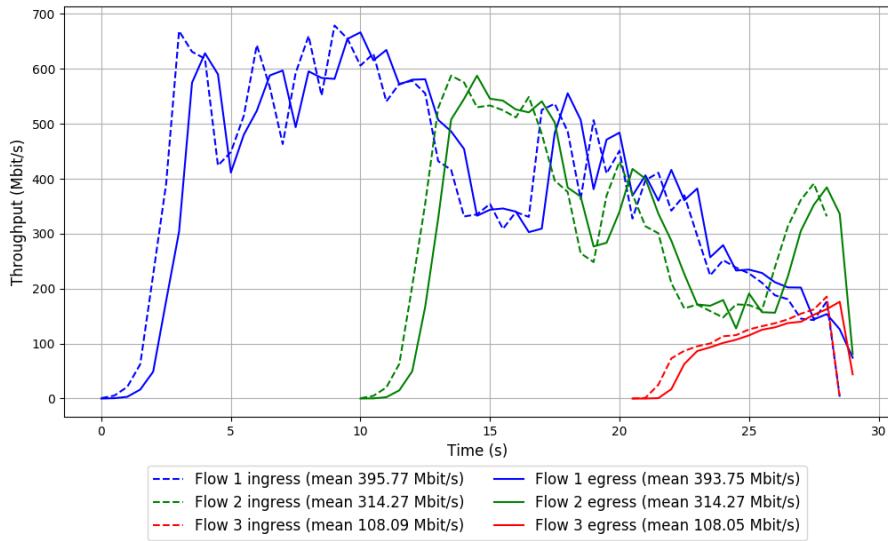


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-03-09 00:52:32
End at: 2019-03-09 00:53:02
Local clock offset: -0.135 ms
Remote clock offset: -0.358 ms

# Below is generated by plot.py at 2019-03-09 04:42:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 625.01 Mbit/s
95th percentile per-packet one-way delay: 166.139 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 393.75 Mbit/s
95th percentile per-packet one-way delay: 180.384 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 314.27 Mbit/s
95th percentile per-packet one-way delay: 122.816 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 108.05 Mbit/s
95th percentile per-packet one-way delay: 112.333 ms
Loss rate: 0.06%
```

Run 2: Report of Indigo-MusesC5 — Data Link

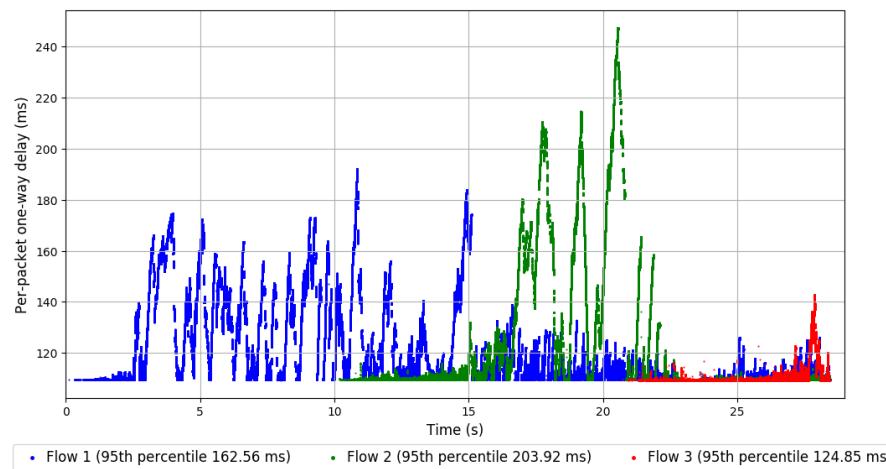
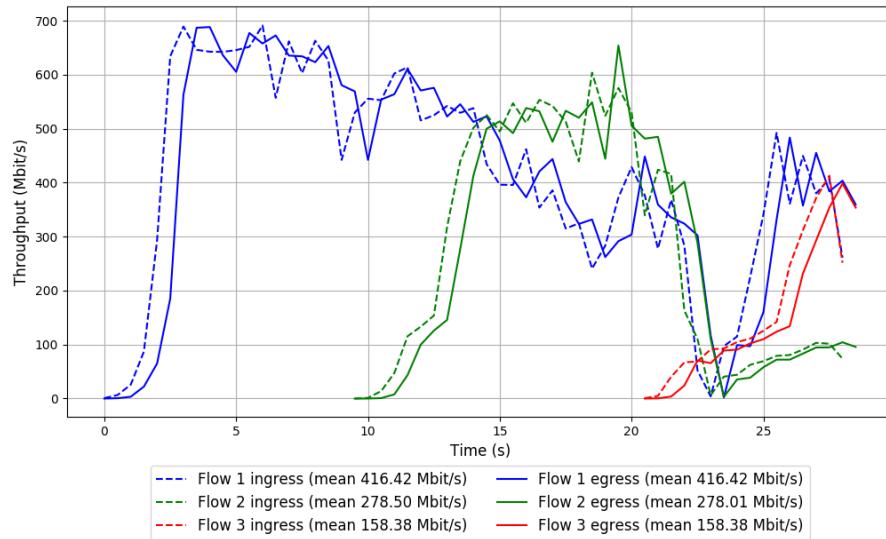


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-03-09 01:29:47
End at: 2019-03-09 01:30:17
Local clock offset: -0.148 ms
Remote clock offset: -0.085 ms

# Below is generated by plot.py at 2019-03-09 04:43:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 640.77 Mbit/s
95th percentile per-packet one-way delay: 173.489 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 416.42 Mbit/s
95th percentile per-packet one-way delay: 162.565 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 278.01 Mbit/s
95th percentile per-packet one-way delay: 203.918 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 158.38 Mbit/s
95th percentile per-packet one-way delay: 124.849 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo-MusesC5 — Data Link

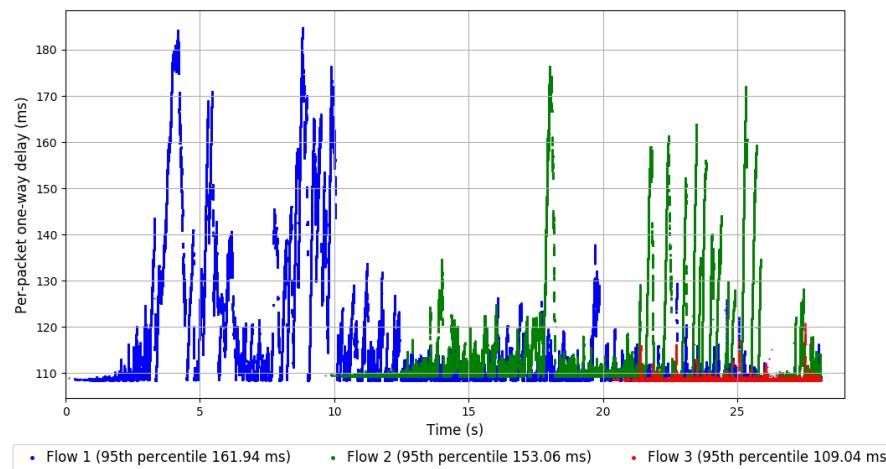
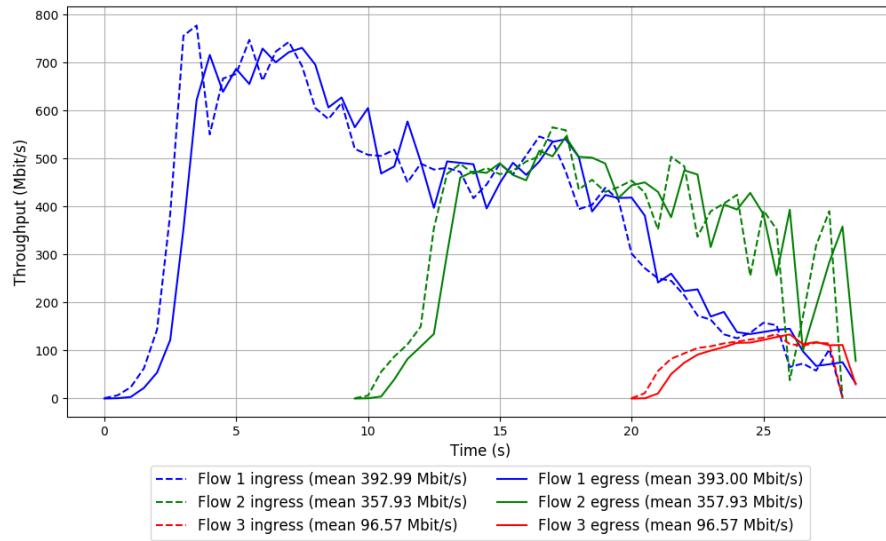


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-03-09 02:07:22
End at: 2019-03-09 02:07:52
Local clock offset: -0.243 ms
Remote clock offset: -0.09 ms

# Below is generated by plot.py at 2019-03-09 04:46:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 656.16 Mbit/s
95th percentile per-packet one-way delay: 157.278 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 393.00 Mbit/s
95th percentile per-packet one-way delay: 161.938 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 357.93 Mbit/s
95th percentile per-packet one-way delay: 153.062 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 96.57 Mbit/s
95th percentile per-packet one-way delay: 109.041 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo-MusesC5 — Data Link

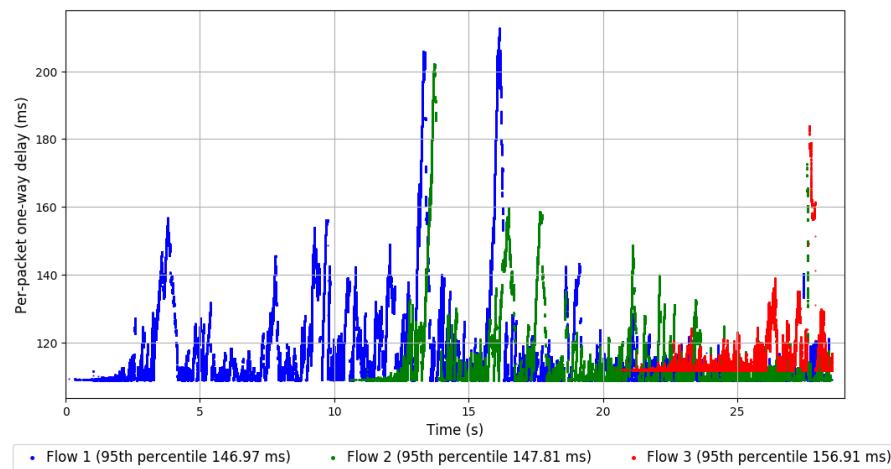
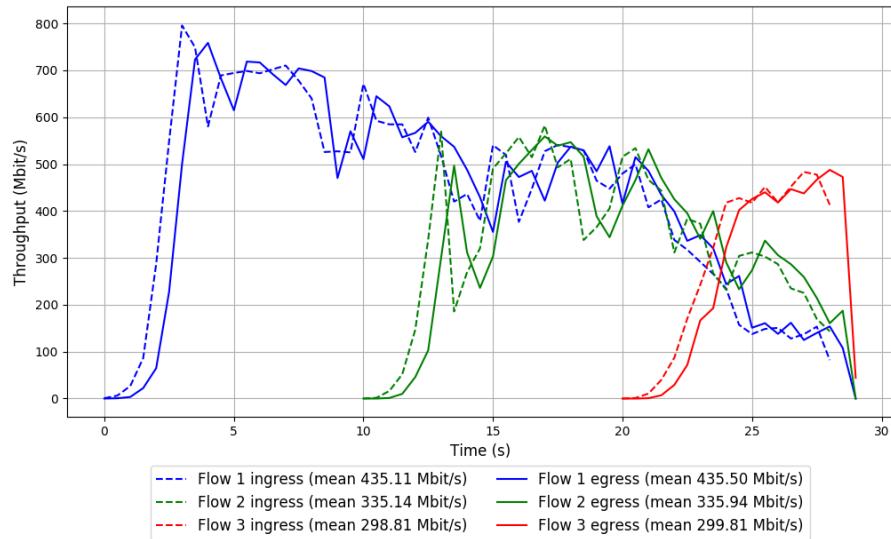


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-03-09 02:45:14
End at: 2019-03-09 02:45:44
Local clock offset: -0.271 ms
Remote clock offset: 0.303 ms

# Below is generated by plot.py at 2019-03-09 04:50:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 734.77 Mbit/s
95th percentile per-packet one-way delay: 147.611 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 435.50 Mbit/s
95th percentile per-packet one-way delay: 146.970 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 335.94 Mbit/s
95th percentile per-packet one-way delay: 147.805 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 299.81 Mbit/s
95th percentile per-packet one-way delay: 156.913 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo-MusesC5 — Data Link

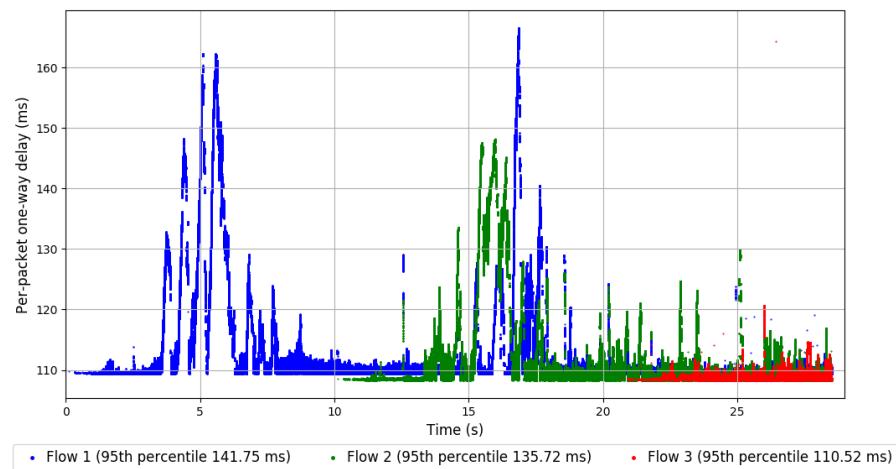
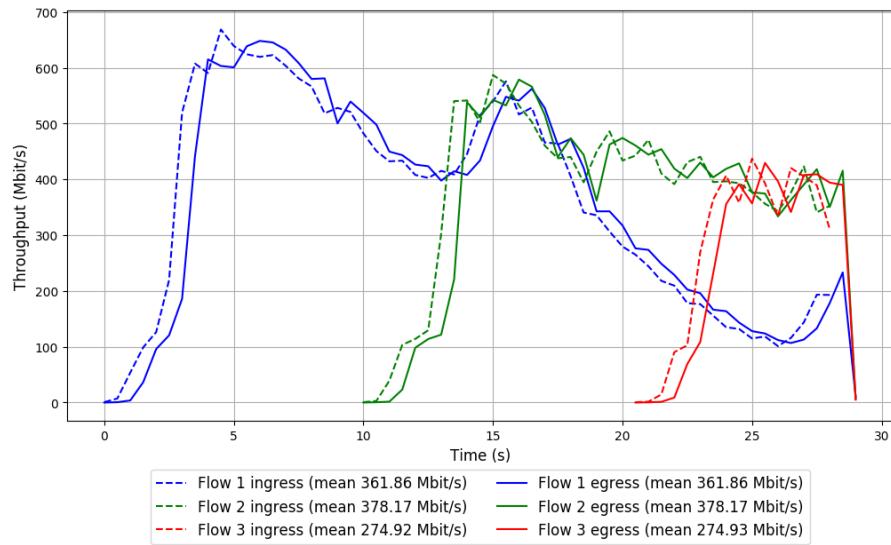


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-03-09 00:49:15
End at: 2019-03-09 00:49:45
Local clock offset: -0.187 ms
Remote clock offset: 0.049 ms

# Below is generated by plot.py at 2019-03-09 04:50:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 682.32 Mbit/s
95th percentile per-packet one-way delay: 136.828 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 361.86 Mbit/s
95th percentile per-packet one-way delay: 141.751 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 378.17 Mbit/s
95th percentile per-packet one-way delay: 135.722 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 274.93 Mbit/s
95th percentile per-packet one-way delay: 110.518 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-MusesD — Data Link

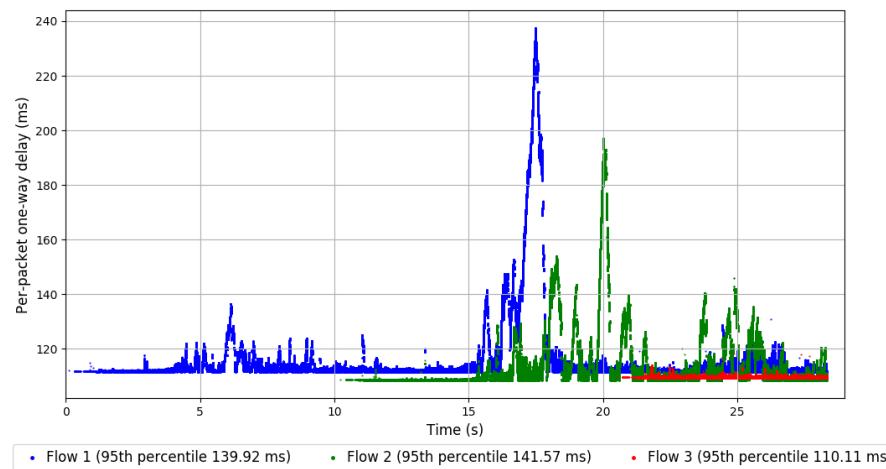
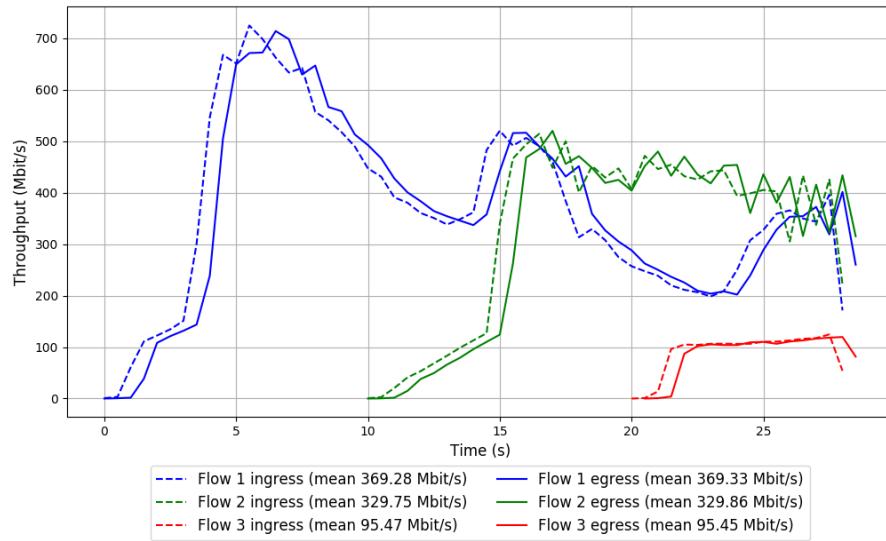


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-03-09 01:26:34
End at: 2019-03-09 01:27:04
Local clock offset: -0.23 ms
Remote clock offset: -0.083 ms

# Below is generated by plot.py at 2019-03-09 04:50:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 607.38 Mbit/s
95th percentile per-packet one-way delay: 139.788 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 369.33 Mbit/s
95th percentile per-packet one-way delay: 139.917 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 329.86 Mbit/s
95th percentile per-packet one-way delay: 141.571 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 95.45 Mbit/s
95th percentile per-packet one-way delay: 110.112 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-MusesD — Data Link

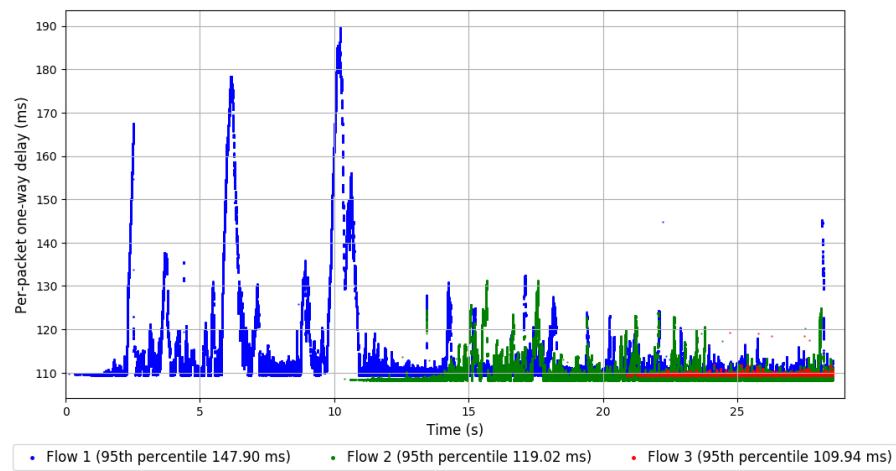
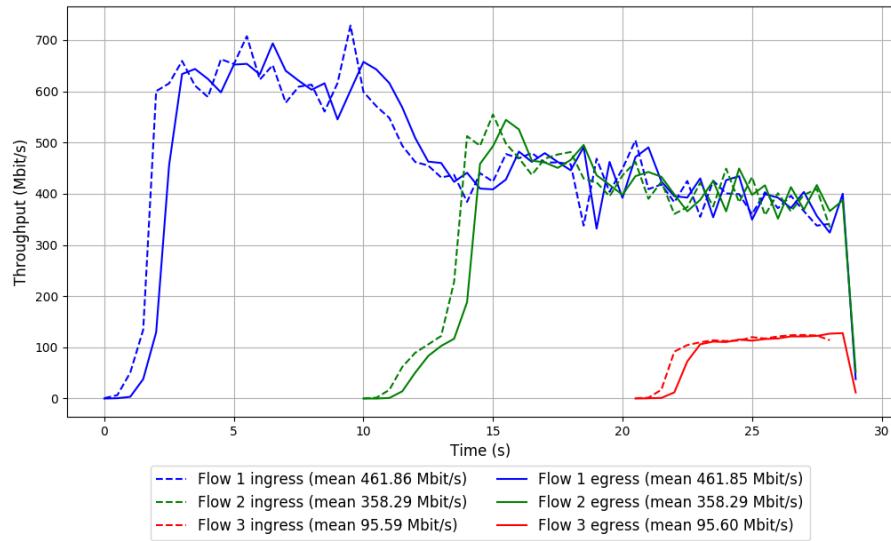


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-03-09 02:04:03
End at: 2019-03-09 02:04:33
Local clock offset: -0.202 ms
Remote clock offset: -0.148 ms

# Below is generated by plot.py at 2019-03-09 04:51:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 717.28 Mbit/s
95th percentile per-packet one-way delay: 135.678 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 461.85 Mbit/s
95th percentile per-packet one-way delay: 147.898 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 358.29 Mbit/s
95th percentile per-packet one-way delay: 119.024 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 95.60 Mbit/s
95th percentile per-packet one-way delay: 109.940 ms
Loss rate: 0.09%
```

Run 3: Report of Indigo-MusesD — Data Link

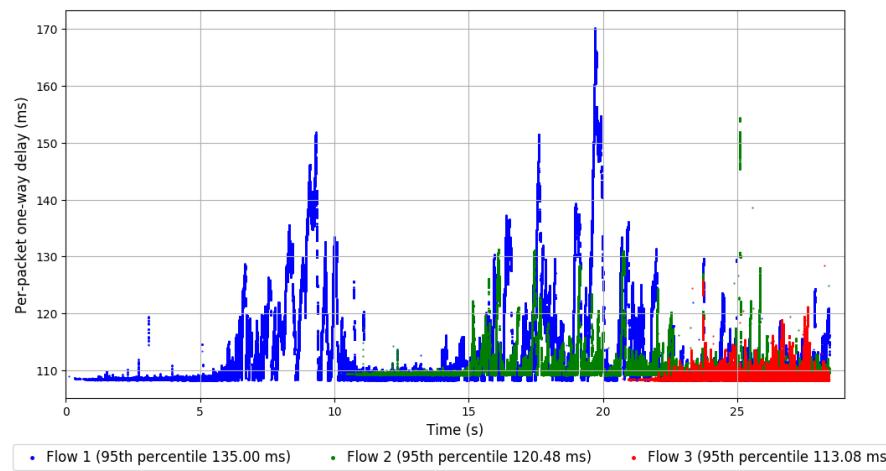
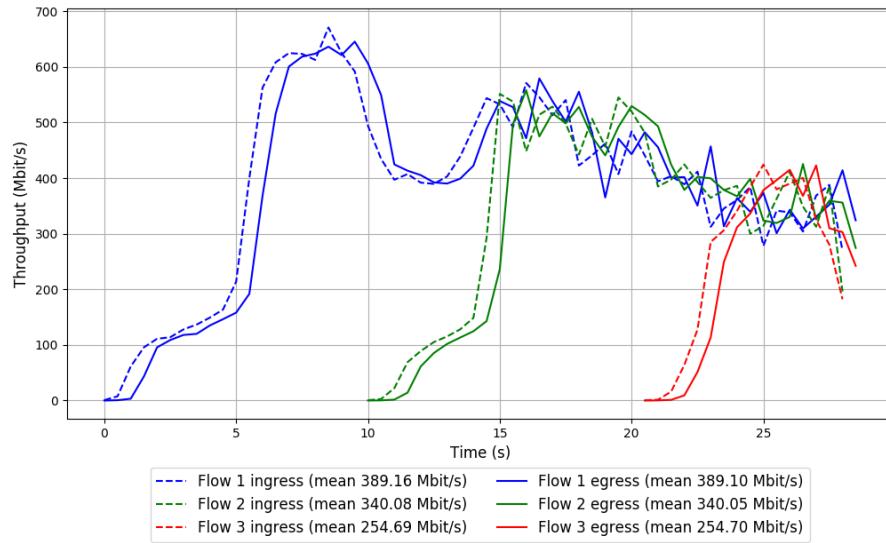


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-03-09 02:41:56
End at: 2019-03-09 02:42:26
Local clock offset: -0.111 ms
Remote clock offset: -0.099 ms

# Below is generated by plot.py at 2019-03-09 04:51:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 676.51 Mbit/s
95th percentile per-packet one-way delay: 129.724 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 389.10 Mbit/s
95th percentile per-packet one-way delay: 135.004 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 340.05 Mbit/s
95th percentile per-packet one-way delay: 120.483 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 254.70 Mbit/s
95th percentile per-packet one-way delay: 113.085 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo-MusesD — Data Link

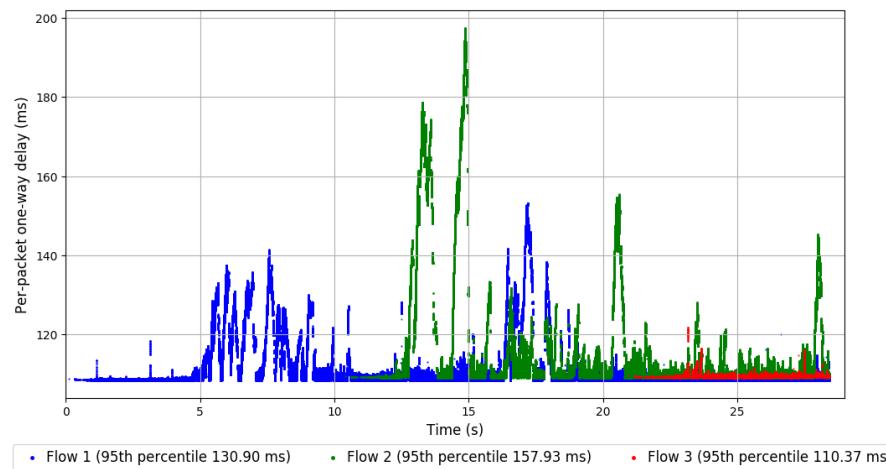
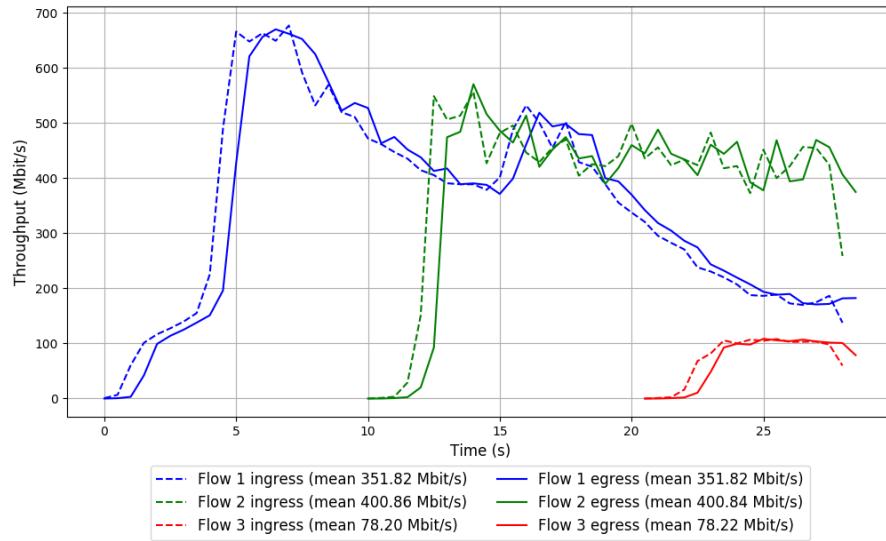


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-03-09 03:19:07
End at: 2019-03-09 03:19:37
Local clock offset: -0.158 ms
Remote clock offset: -0.101 ms

# Below is generated by plot.py at 2019-03-09 04:53:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 627.47 Mbit/s
95th percentile per-packet one-way delay: 138.048 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 351.82 Mbit/s
95th percentile per-packet one-way delay: 130.903 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 400.84 Mbit/s
95th percentile per-packet one-way delay: 157.927 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 78.22 Mbit/s
95th percentile per-packet one-way delay: 110.372 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo-MusesD — Data Link

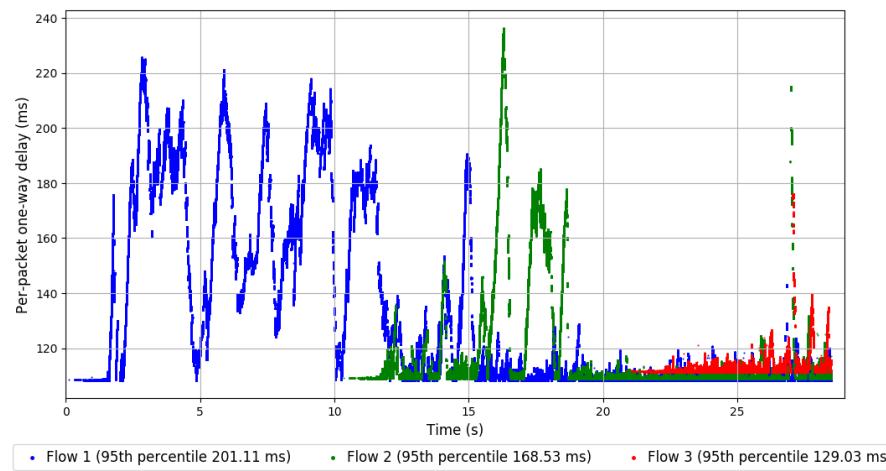
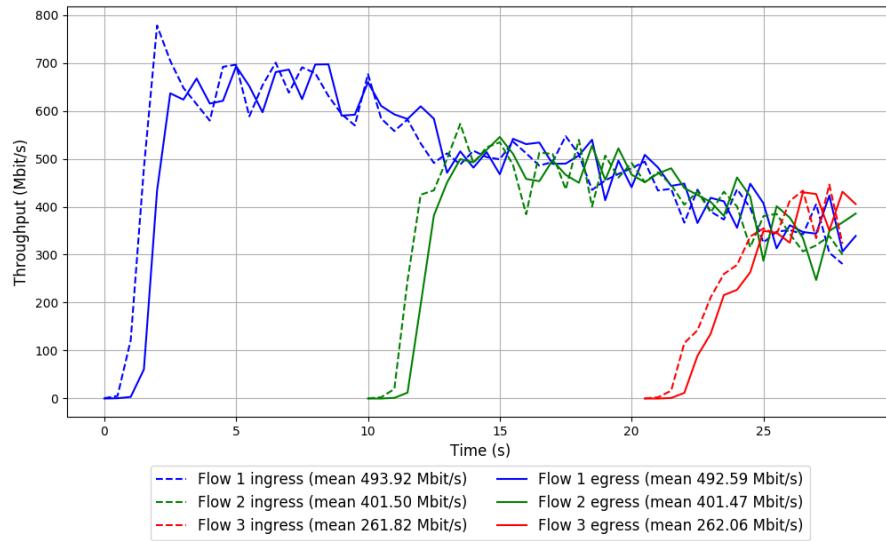


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-03-09 00:43:02
End at: 2019-03-09 00:43:32
Local clock offset: -0.038 ms
Remote clock offset: -0.006 ms

# Below is generated by plot.py at 2019-03-09 04:57:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 820.03 Mbit/s
95th percentile per-packet one-way delay: 196.678 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 492.59 Mbit/s
95th percentile per-packet one-way delay: 201.106 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 401.47 Mbit/s
95th percentile per-packet one-way delay: 168.530 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 262.06 Mbit/s
95th percentile per-packet one-way delay: 129.032 ms
Loss rate: 0.07%
```

Run 1: Report of Indigo-MusesT — Data Link

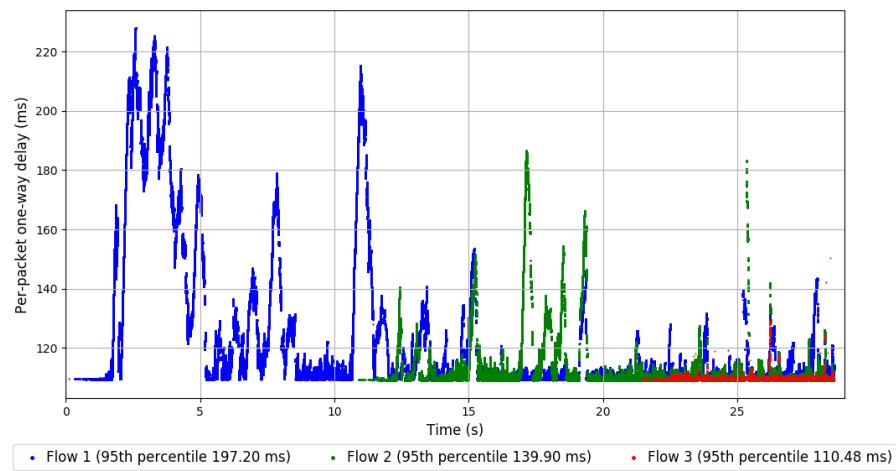
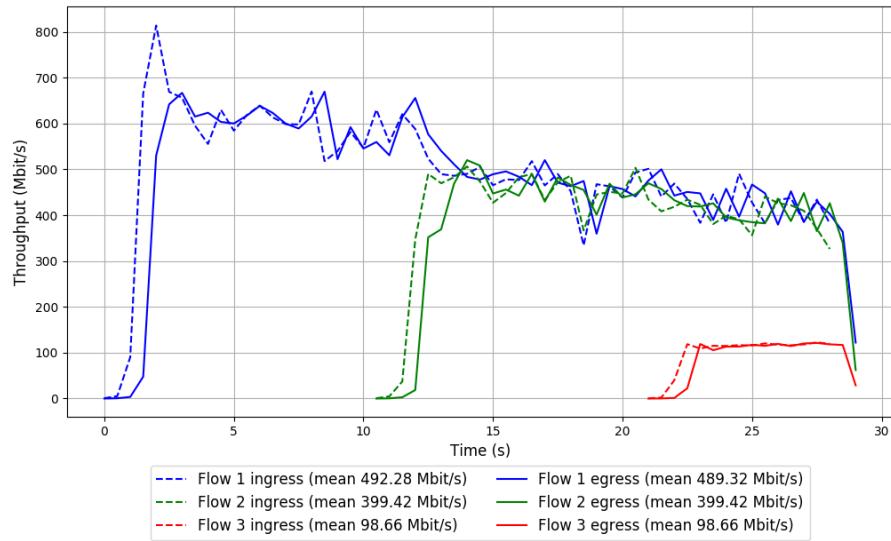


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-03-09 01:20:29
End at: 2019-03-09 01:20:59
Local clock offset: -0.397 ms
Remote clock offset: -0.449 ms

# Below is generated by plot.py at 2019-03-09 05:00:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 765.63 Mbit/s
95th percentile per-packet one-way delay: 183.650 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 489.32 Mbit/s
95th percentile per-packet one-way delay: 197.199 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 399.42 Mbit/s
95th percentile per-packet one-way delay: 139.899 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 98.66 Mbit/s
95th percentile per-packet one-way delay: 110.483 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-MusesT — Data Link

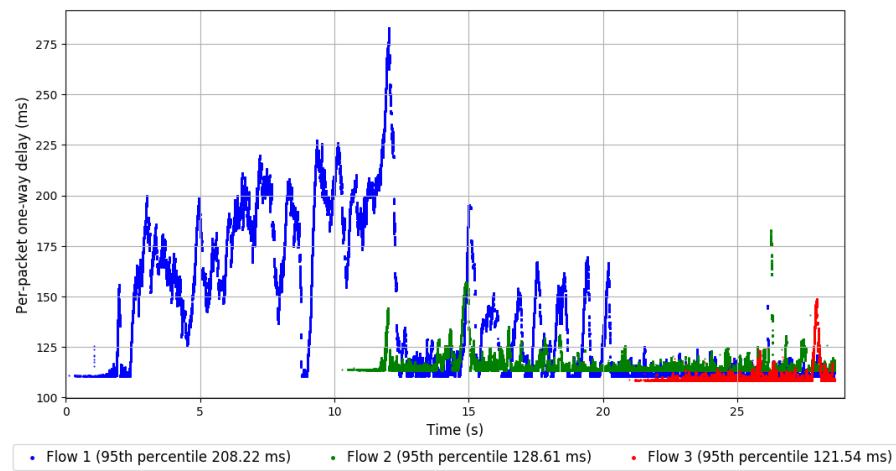
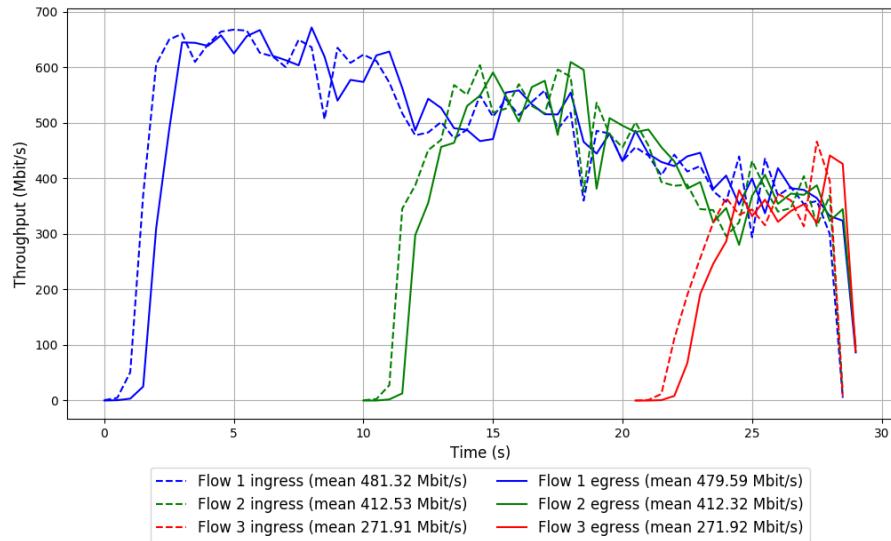


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-03-09 01:57:53
End at: 2019-03-09 01:58:23
Local clock offset: -0.268 ms
Remote clock offset: -0.15 ms

# Below is generated by plot.py at 2019-03-09 05:02:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 817.69 Mbit/s
95th percentile per-packet one-way delay: 202.427 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 479.59 Mbit/s
95th percentile per-packet one-way delay: 208.216 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 412.32 Mbit/s
95th percentile per-packet one-way delay: 128.612 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 271.92 Mbit/s
95th percentile per-packet one-way delay: 121.542 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo-MusesT — Data Link

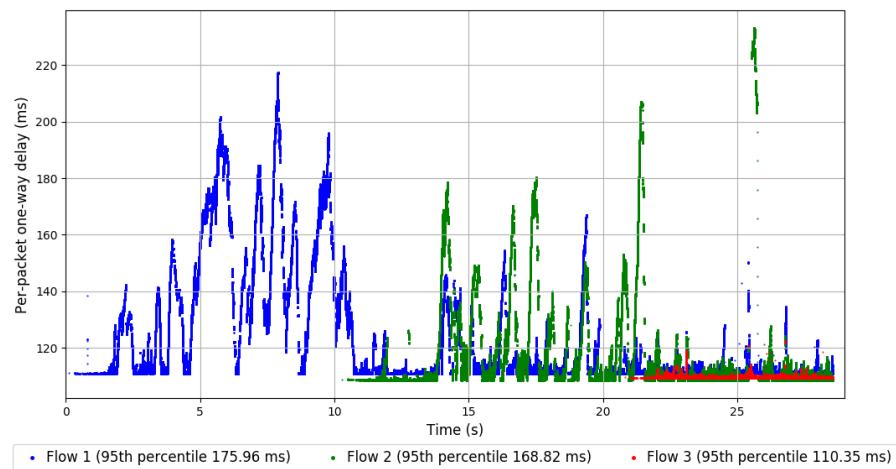
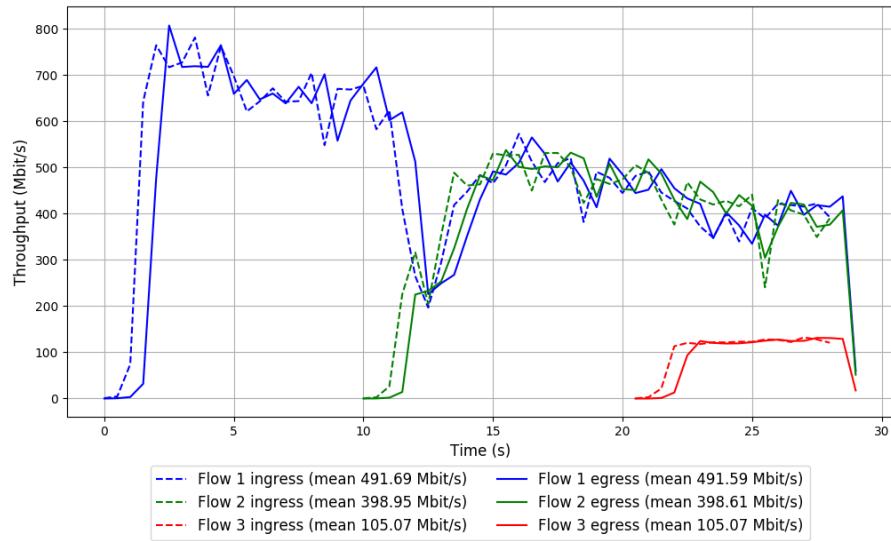


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-03-09 02:35:50
End at: 2019-03-09 02:36:20
Local clock offset: -0.273 ms
Remote clock offset: -0.078 ms

# Below is generated by plot.py at 2019-03-09 05:02:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 776.36 Mbit/s
95th percentile per-packet one-way delay: 174.161 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 491.59 Mbit/s
95th percentile per-packet one-way delay: 175.960 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 398.61 Mbit/s
95th percentile per-packet one-way delay: 168.816 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 105.07 Mbit/s
95th percentile per-packet one-way delay: 110.352 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo-MusesT — Data Link

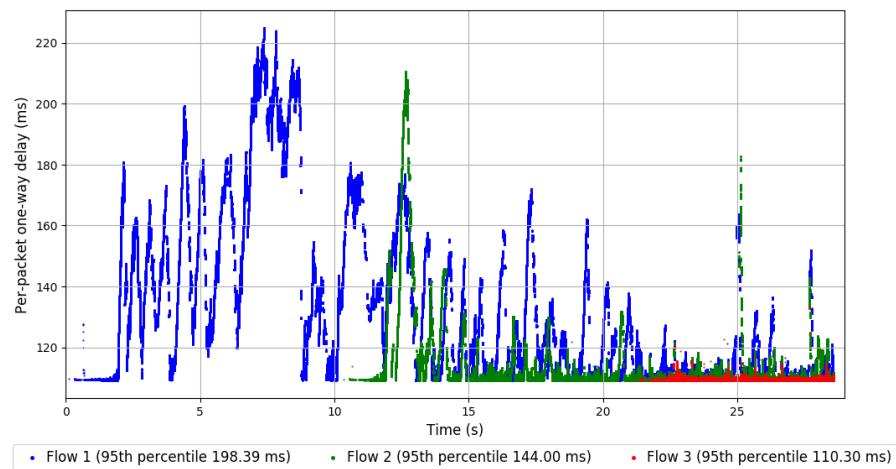
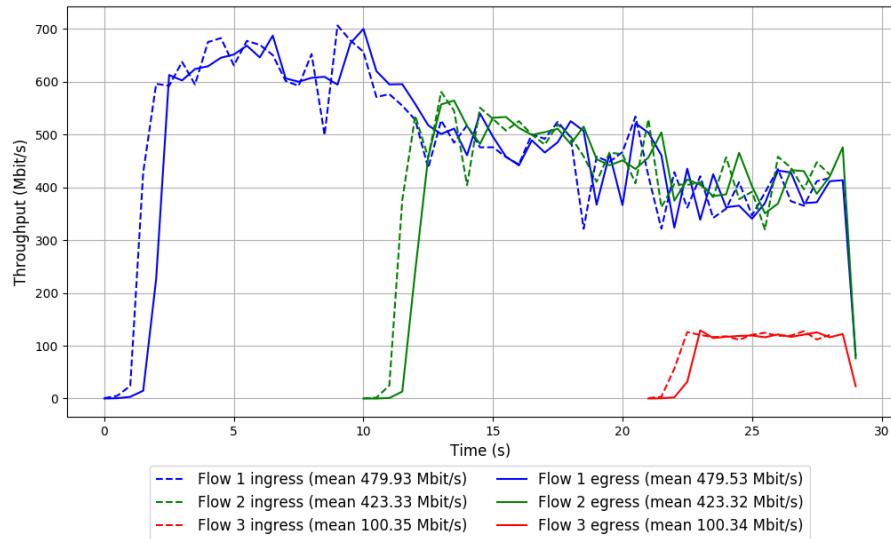


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-03-09 03:12:57
End at: 2019-03-09 03:13:27
Local clock offset: -0.248 ms
Remote clock offset: -0.097 ms

# Below is generated by plot.py at 2019-03-09 05:03:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 776.78 Mbit/s
95th percentile per-packet one-way delay: 191.273 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 479.53 Mbit/s
95th percentile per-packet one-way delay: 198.389 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 423.32 Mbit/s
95th percentile per-packet one-way delay: 144.001 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 100.34 Mbit/s
95th percentile per-packet one-way delay: 110.302 ms
Loss rate: 0.01%
```

Run 5: Report of Indigo-MusesT — Data Link

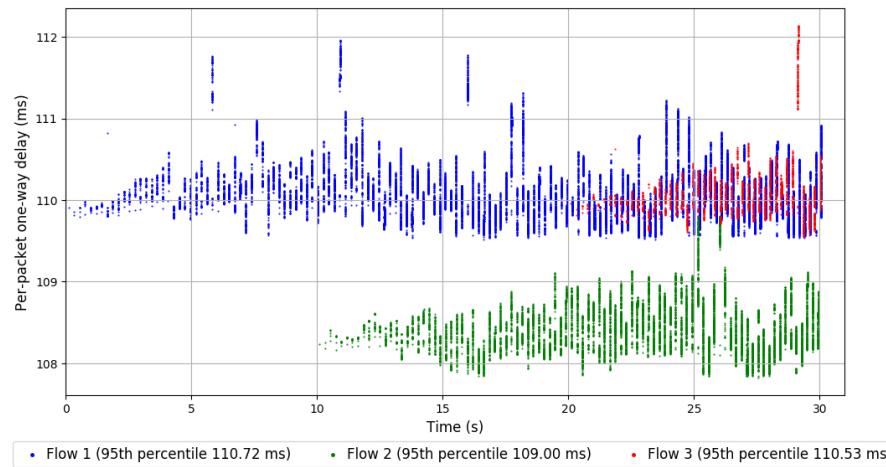
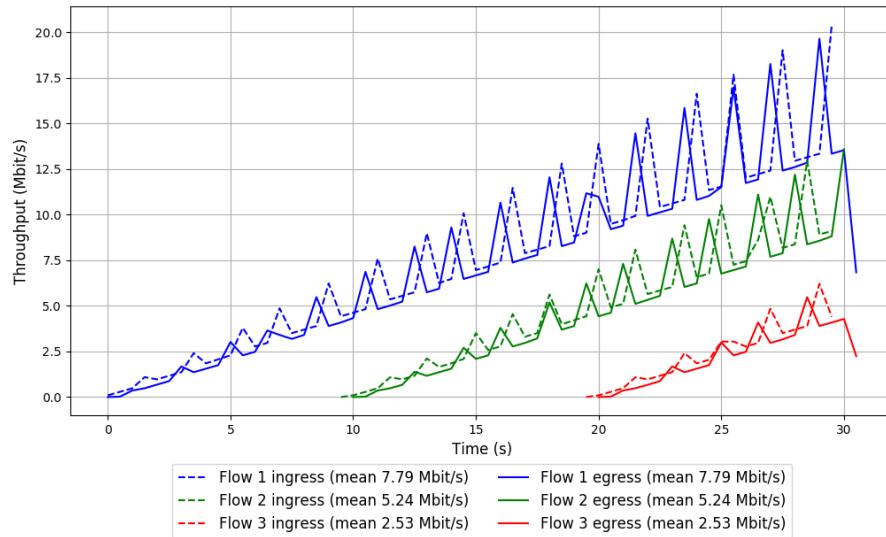


Run 1: Statistics of LEDBAT

```
Start at: 2019-03-09 00:17:28
End at: 2019-03-09 00:17:58
Local clock offset: 0.391 ms
Remote clock offset: 0.057 ms

# Below is generated by plot.py at 2019-03-09 05:03:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.10 Mbit/s
95th percentile per-packet one-way delay: 110.597 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.79 Mbit/s
95th percentile per-packet one-way delay: 110.721 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 5.24 Mbit/s
95th percentile per-packet one-way delay: 108.999 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.53 Mbit/s
95th percentile per-packet one-way delay: 110.531 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

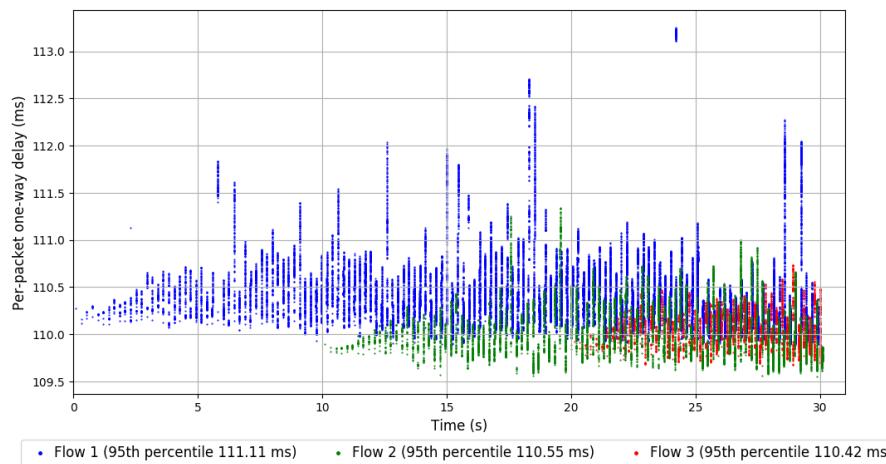
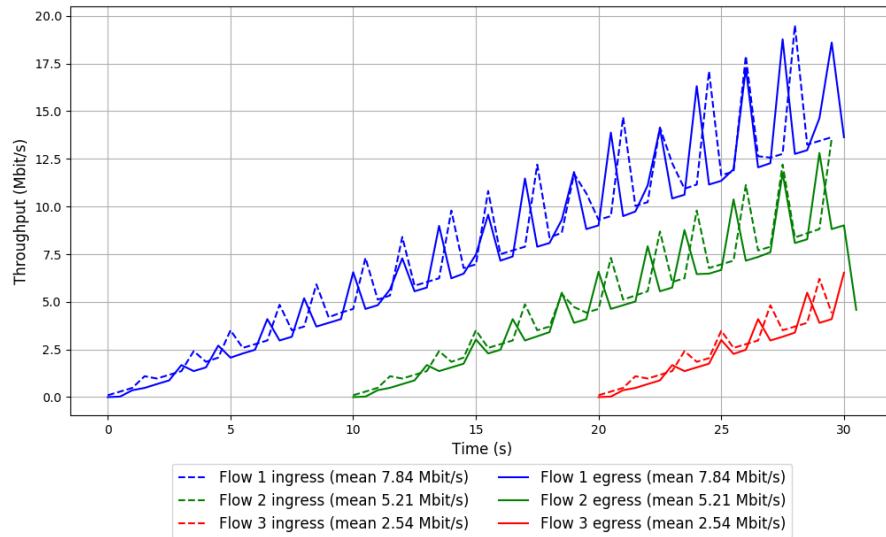


Run 2: Statistics of LEDBAT

```
Start at: 2019-03-09 00:54:23
End at: 2019-03-09 00:54:53
Local clock offset: -0.625 ms
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2019-03-09 05:03:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.09 Mbit/s
95th percentile per-packet one-way delay: 110.919 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.84 Mbit/s
95th percentile per-packet one-way delay: 111.105 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 5.21 Mbit/s
95th percentile per-packet one-way delay: 110.548 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.54 Mbit/s
95th percentile per-packet one-way delay: 110.423 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link

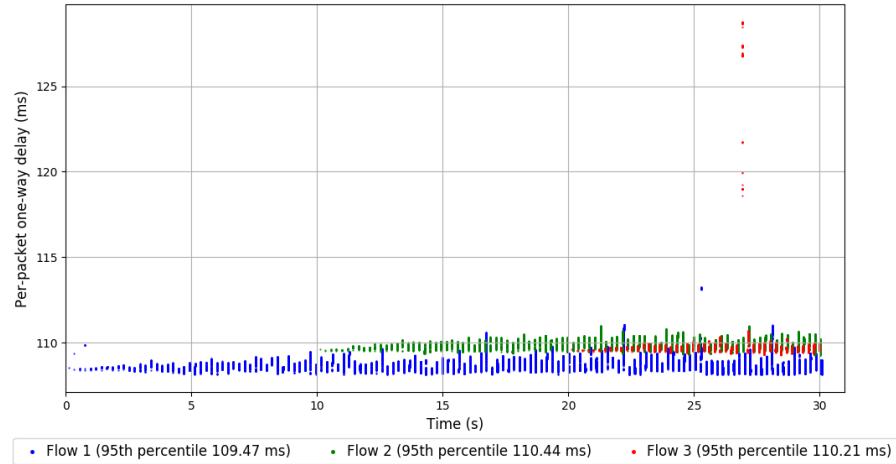
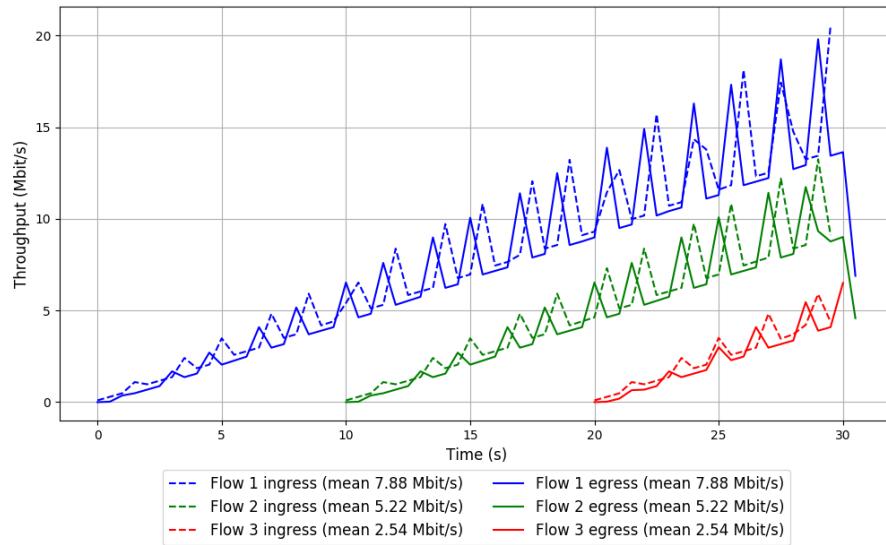


Run 3: Statistics of LEDBAT

```
Start at: 2019-03-09 01:31:40
End at: 2019-03-09 01:32:10
Local clock offset: -0.017 ms
Remote clock offset: -0.12 ms

# Below is generated by plot.py at 2019-03-09 05:03:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.19 Mbit/s
95th percentile per-packet one-way delay: 110.290 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.88 Mbit/s
95th percentile per-packet one-way delay: 109.467 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 5.22 Mbit/s
95th percentile per-packet one-way delay: 110.444 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.54 Mbit/s
95th percentile per-packet one-way delay: 110.207 ms
Loss rate: 0.00%
```

Run 3: Report of LEDBAT — Data Link

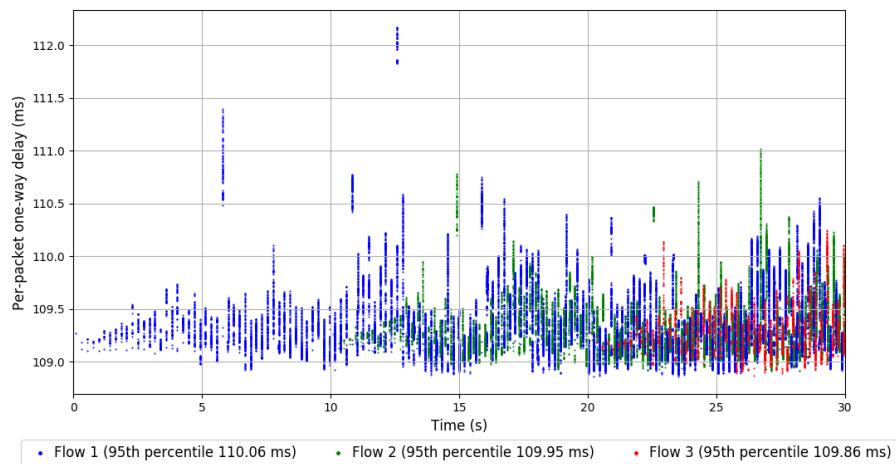
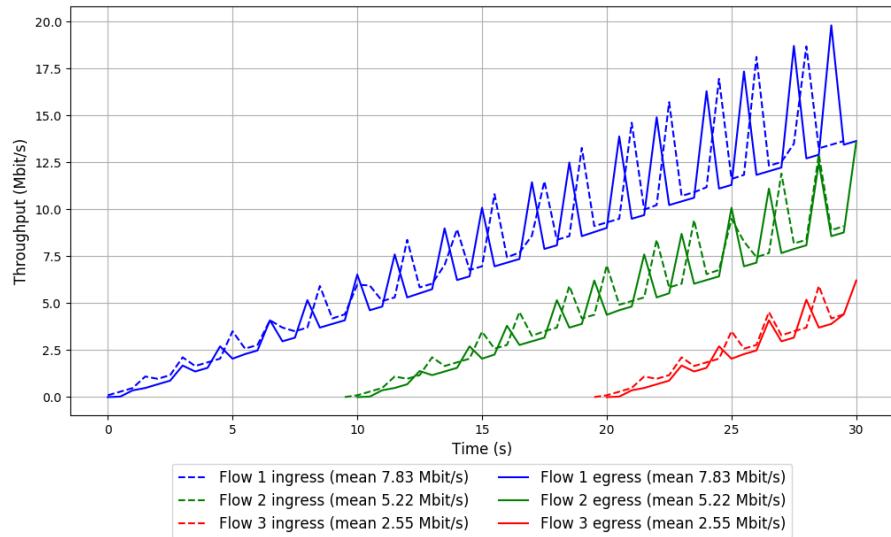


Run 4: Statistics of LEDBAT

```
Start at: 2019-03-09 02:09:14
End at: 2019-03-09 02:09:44
Local clock offset: -0.734 ms
Remote clock offset: -0.109 ms

# Below is generated by plot.py at 2019-03-09 05:03:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.12 Mbit/s
95th percentile per-packet one-way delay: 110.019 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.83 Mbit/s
95th percentile per-packet one-way delay: 110.056 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 5.22 Mbit/s
95th percentile per-packet one-way delay: 109.949 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.55 Mbit/s
95th percentile per-packet one-way delay: 109.863 ms
Loss rate: 0.00%
```

Run 4: Report of LEDBAT — Data Link

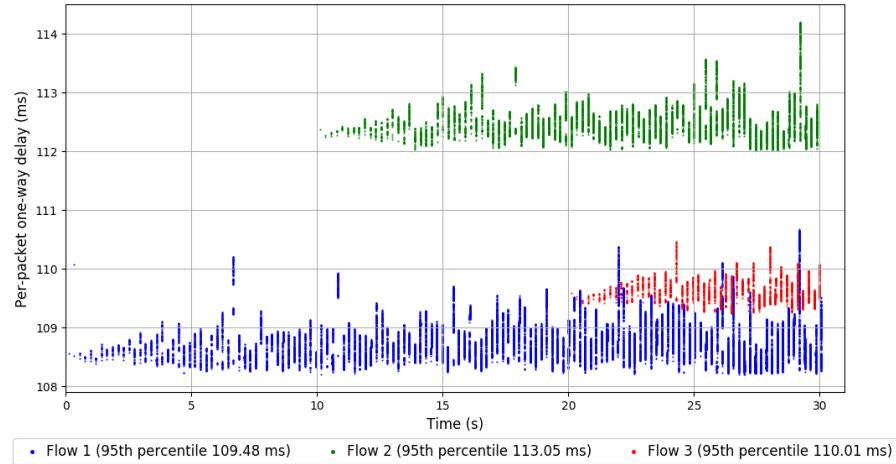
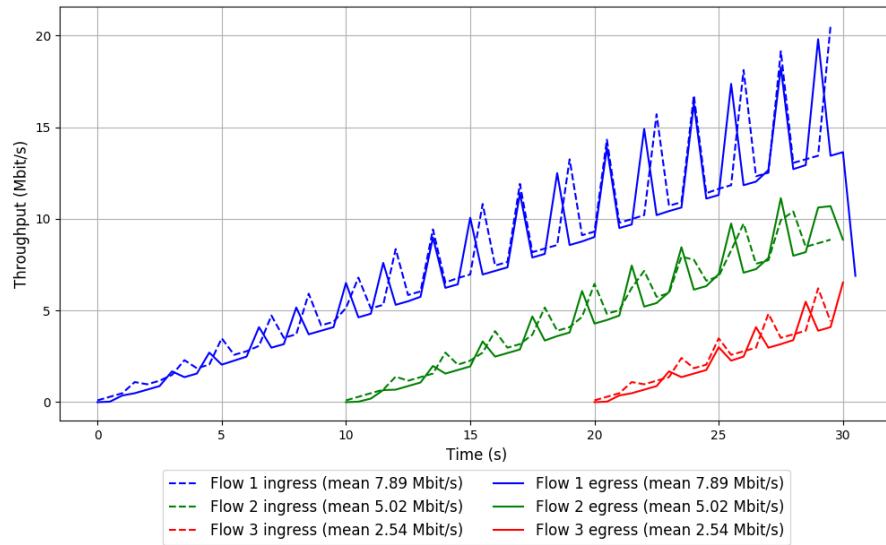


Run 5: Statistics of LEDBAT

```
Start at: 2019-03-09 02:47:12
End at: 2019-03-09 02:47:42
Local clock offset: -0.038 ms
Remote clock offset: -0.074 ms

# Below is generated by plot.py at 2019-03-09 05:03:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.04 Mbit/s
95th percentile per-packet one-way delay: 112.699 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.89 Mbit/s
95th percentile per-packet one-way delay: 109.479 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 5.02 Mbit/s
95th percentile per-packet one-way delay: 113.050 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.54 Mbit/s
95th percentile per-packet one-way delay: 110.012 ms
Loss rate: 0.00%
```

Run 5: Report of LEDBAT — Data Link

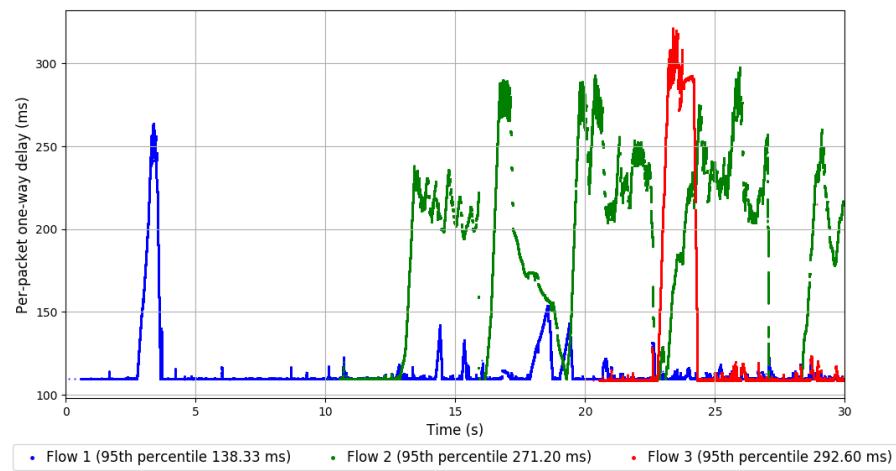
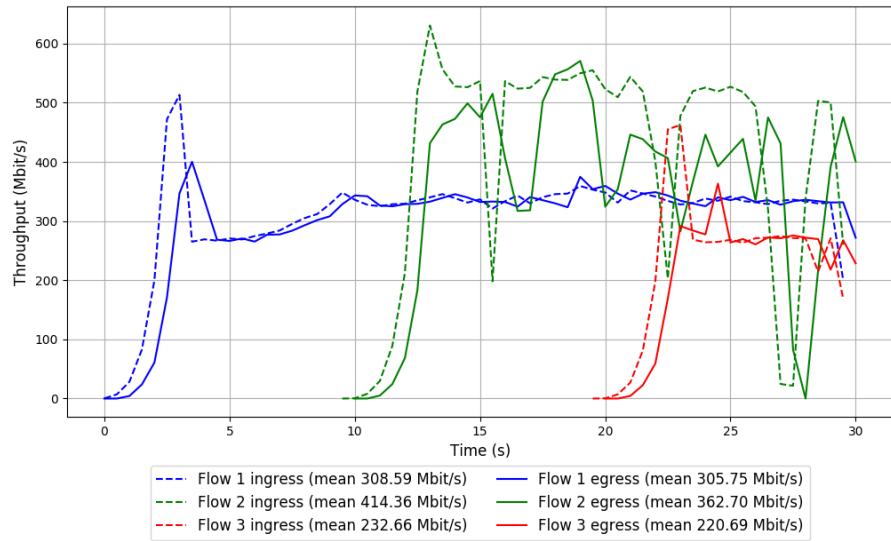


Run 1: Statistics of PCC-Allegro

```
Start at: 2019-03-09 00:45:03
End at: 2019-03-09 00:45:33
Local clock offset: -0.357 ms
Remote clock offset: 0.011 ms

# Below is generated by plot.py at 2019-03-09 05:13:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 619.91 Mbit/s
95th percentile per-packet one-way delay: 257.062 ms
Loss rate: 6.10%
-- Flow 1:
Average throughput: 305.75 Mbit/s
95th percentile per-packet one-way delay: 138.332 ms
Loss rate: 0.92%
-- Flow 2:
Average throughput: 362.70 Mbit/s
95th percentile per-packet one-way delay: 271.201 ms
Loss rate: 12.18%
-- Flow 3:
Average throughput: 220.69 Mbit/s
95th percentile per-packet one-way delay: 292.601 ms
Loss rate: 5.12%
```

Run 1: Report of PCC-Allegro — Data Link

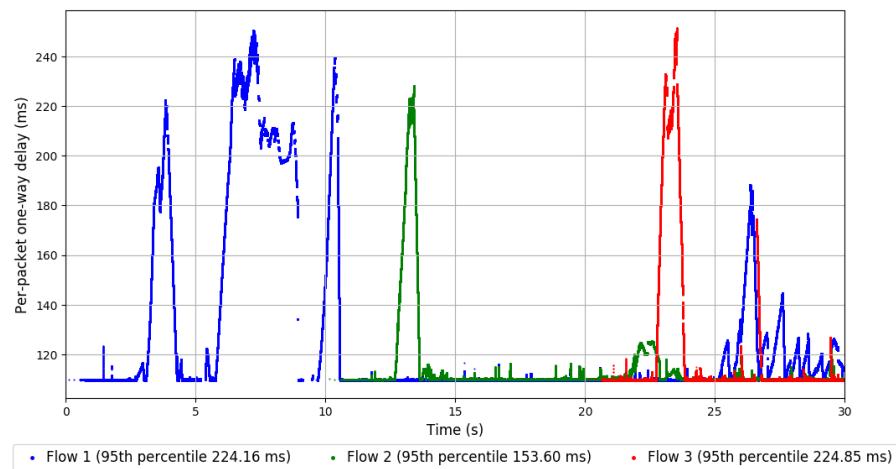
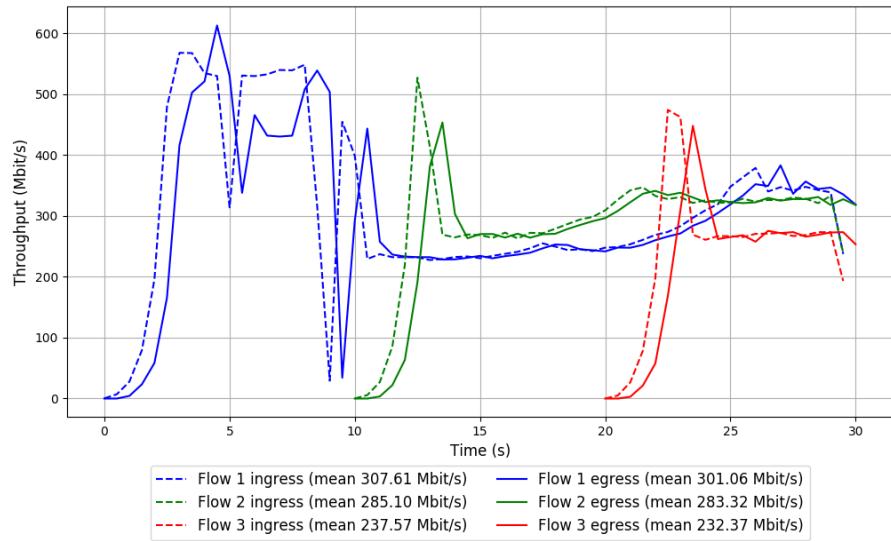


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-03-09 01:22:27
End at: 2019-03-09 01:22:57
Local clock offset: 0.02 ms
Remote clock offset: 0.284 ms

# Below is generated by plot.py at 2019-03-09 05:13:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 565.50 Mbit/s
95th percentile per-packet one-way delay: 215.067 ms
Loss rate: 1.64%
-- Flow 1:
Average throughput: 301.06 Mbit/s
95th percentile per-packet one-way delay: 224.160 ms
Loss rate: 2.13%
-- Flow 2:
Average throughput: 283.32 Mbit/s
95th percentile per-packet one-way delay: 153.602 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 232.37 Mbit/s
95th percentile per-packet one-way delay: 224.848 ms
Loss rate: 2.19%
```

Run 2: Report of PCC-Allegro — Data Link

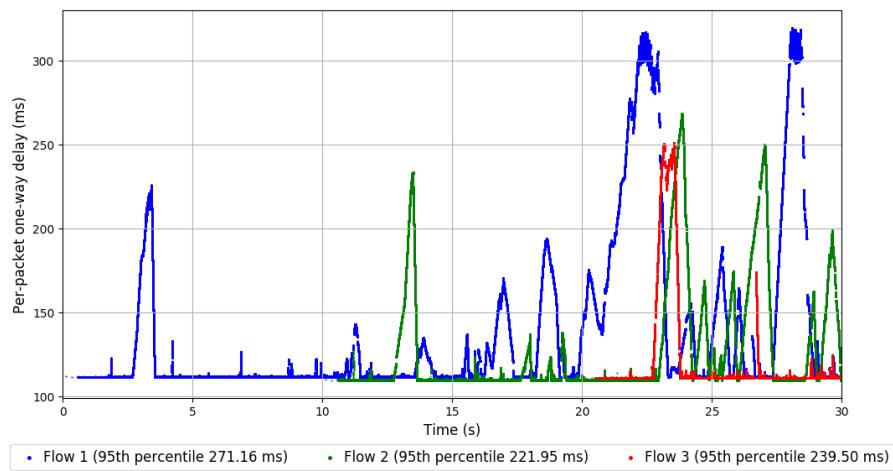
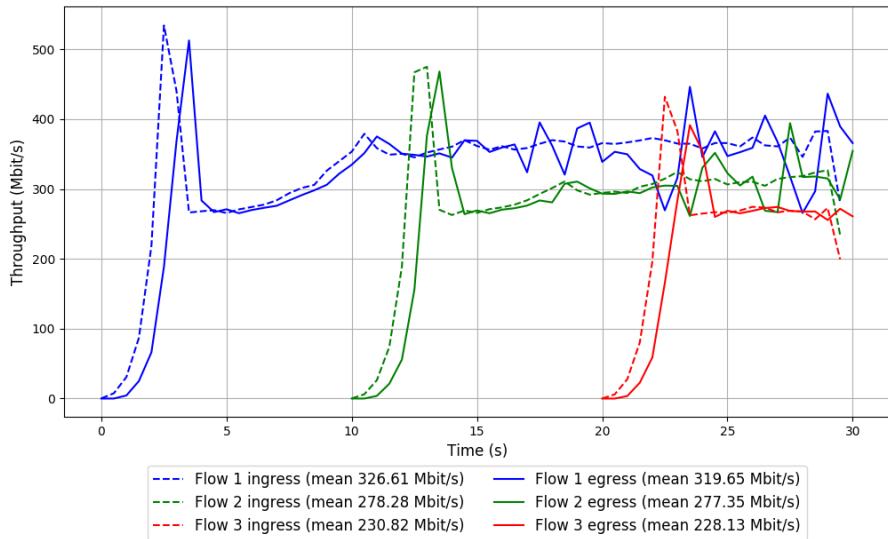


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-03-09 01:59:55
End at: 2019-03-09 02:00:25
Local clock offset: -0.264 ms
Remote clock offset: -0.142 ms

# Below is generated by plot.py at 2019-03-09 05:13:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 579.02 Mbit/s
95th percentile per-packet one-way delay: 239.508 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 319.65 Mbit/s
95th percentile per-packet one-way delay: 271.161 ms
Loss rate: 2.13%
-- Flow 2:
Average throughput: 277.35 Mbit/s
95th percentile per-packet one-way delay: 221.948 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 228.13 Mbit/s
95th percentile per-packet one-way delay: 239.504 ms
Loss rate: 1.17%
```

Run 3: Report of PCC-Allegro — Data Link

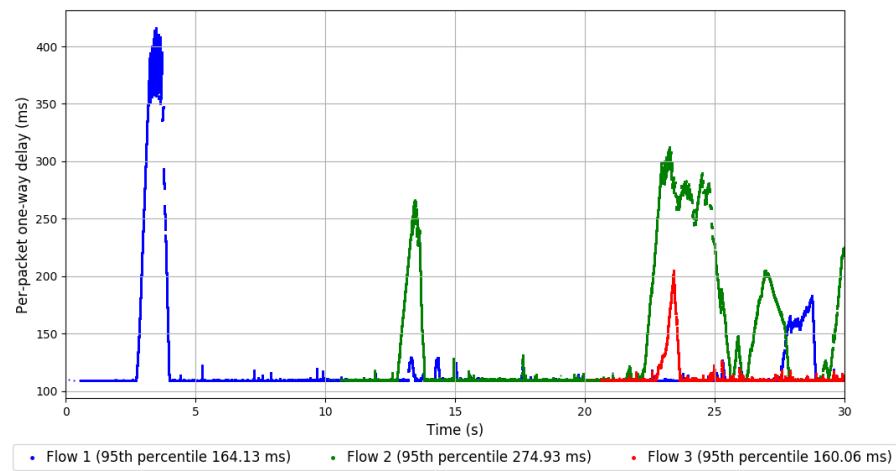
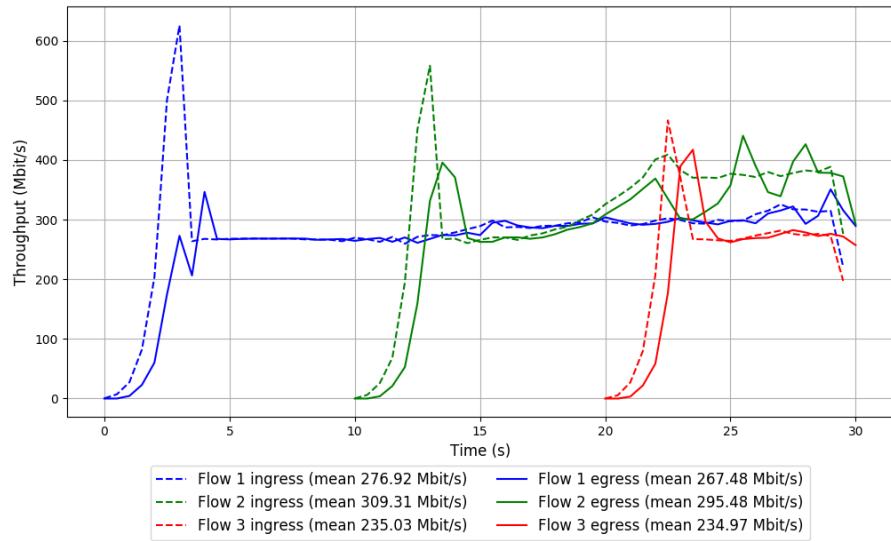


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-03-09 02:37:49
End at: 2019-03-09 02:38:19
Local clock offset: -0.268 ms
Remote clock offset: -0.133 ms

# Below is generated by plot.py at 2019-03-09 05:17:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 541.09 Mbit/s
95th percentile per-packet one-way delay: 255.113 ms
Loss rate: 3.33%
-- Flow 1:
Average throughput: 267.48 Mbit/s
95th percentile per-packet one-way delay: 164.132 ms
Loss rate: 3.41%
-- Flow 2:
Average throughput: 295.48 Mbit/s
95th percentile per-packet one-way delay: 274.933 ms
Loss rate: 4.46%
-- Flow 3:
Average throughput: 234.97 Mbit/s
95th percentile per-packet one-way delay: 160.062 ms
Loss rate: 0.02%
```

Run 4: Report of PCC-Allegro — Data Link

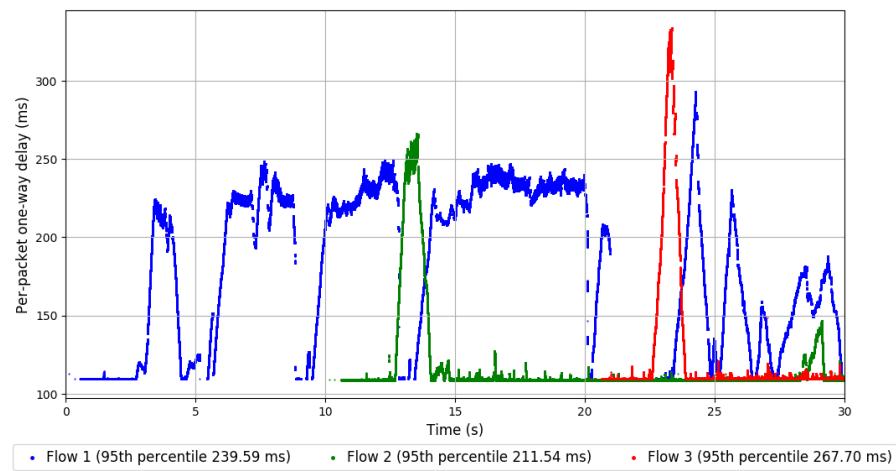
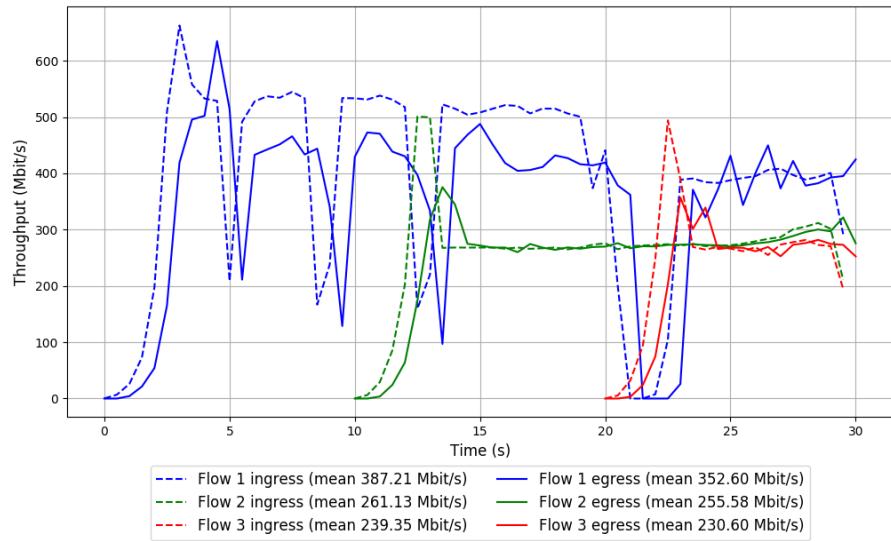


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-03-09 03:14:56
End at: 2019-03-09 03:15:26
Local clock offset: -0.366 ms
Remote clock offset: -0.123 ms

# Below is generated by plot.py at 2019-03-09 05:21:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 597.94 Mbit/s
95th percentile per-packet one-way delay: 239.220 ms
Loss rate: 6.45%
-- Flow 1:
Average throughput: 352.60 Mbit/s
95th percentile per-packet one-way delay: 239.589 ms
Loss rate: 8.95%
-- Flow 2:
Average throughput: 255.58 Mbit/s
95th percentile per-packet one-way delay: 211.544 ms
Loss rate: 2.12%
-- Flow 3:
Average throughput: 230.60 Mbit/s
95th percentile per-packet one-way delay: 267.704 ms
Loss rate: 3.66%
```

Run 5: Report of PCC-Allegro — Data Link

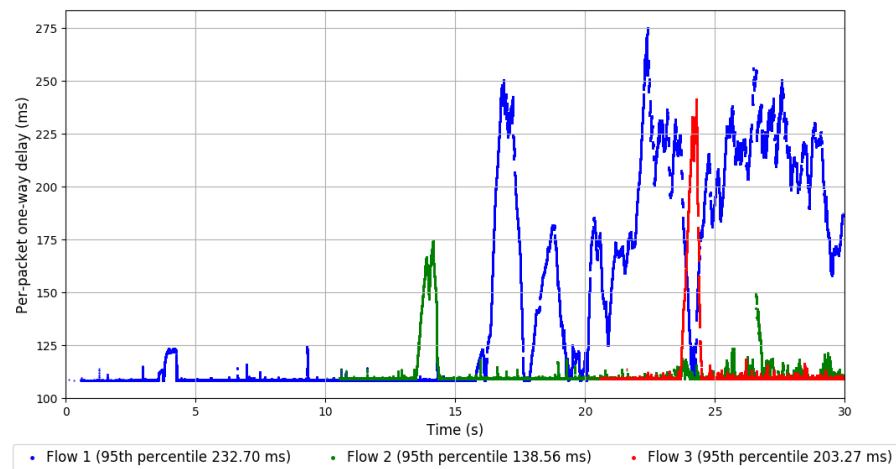
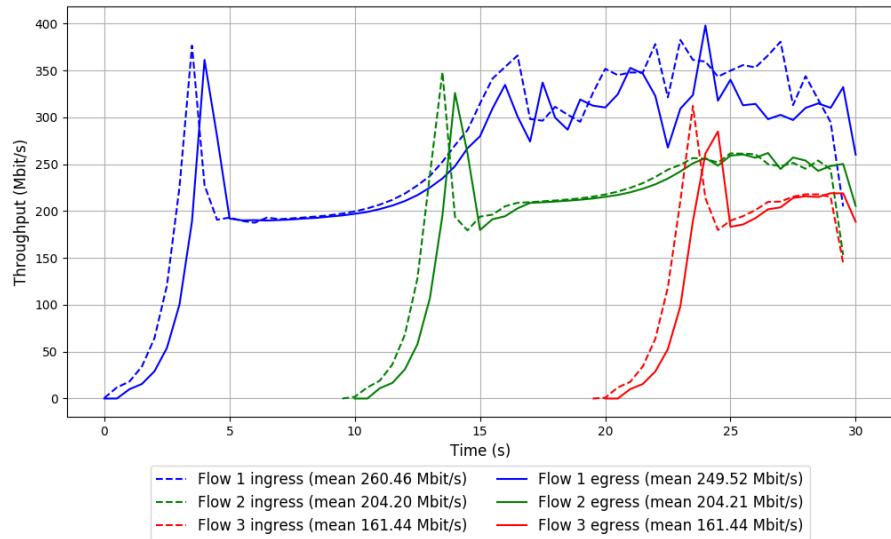


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-03-09 00:34:57
End at: 2019-03-09 00:35:27
Local clock offset: -0.138 ms
Remote clock offset: -0.059 ms

# Below is generated by plot.py at 2019-03-09 05:21:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 438.91 Mbit/s
95th percentile per-packet one-way delay: 227.106 ms
Loss rate: 2.43%
-- Flow 1:
Average throughput: 249.52 Mbit/s
95th percentile per-packet one-way delay: 232.701 ms
Loss rate: 4.20%
-- Flow 2:
Average throughput: 204.21 Mbit/s
95th percentile per-packet one-way delay: 138.559 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 161.44 Mbit/s
95th percentile per-packet one-way delay: 203.268 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Expr — Data Link

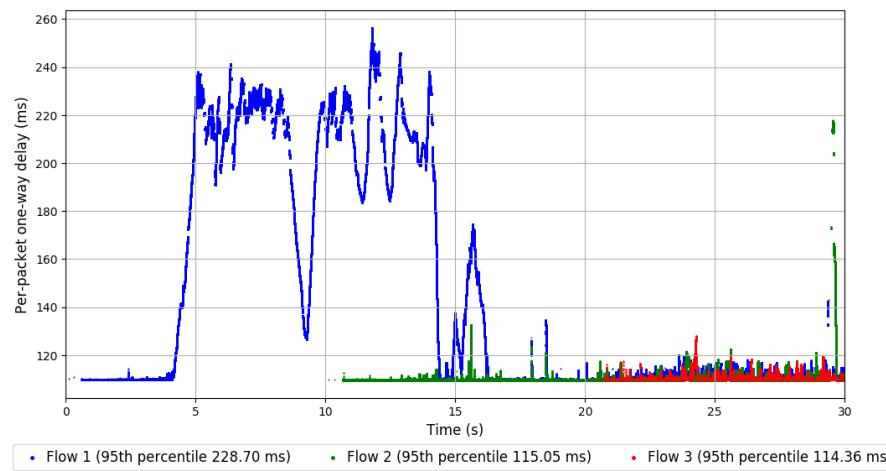
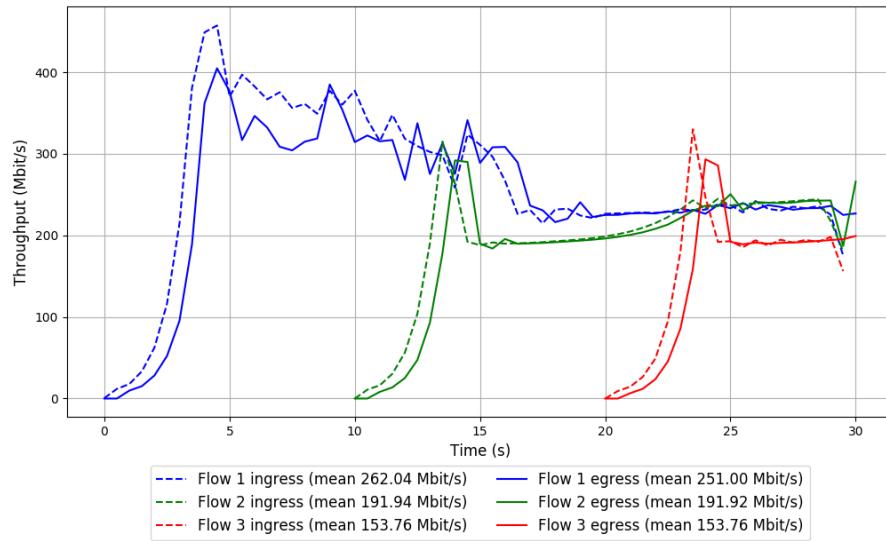


Run 2: Statistics of PCC-Expr

```
Start at: 2019-03-09 01:12:26
End at: 2019-03-09 01:12:56
Local clock offset: -0.583 ms
Remote clock offset: -0.15 ms

# Below is generated by plot.py at 2019-03-09 05:21:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 429.25 Mbit/s
95th percentile per-packet one-way delay: 225.528 ms
Loss rate: 2.51%
-- Flow 1:
Average throughput: 251.00 Mbit/s
95th percentile per-packet one-way delay: 228.697 ms
Loss rate: 4.21%
-- Flow 2:
Average throughput: 191.92 Mbit/s
95th percentile per-packet one-way delay: 115.047 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 153.76 Mbit/s
95th percentile per-packet one-way delay: 114.356 ms
Loss rate: 0.00%
```

Run 2: Report of PCC-Expr — Data Link

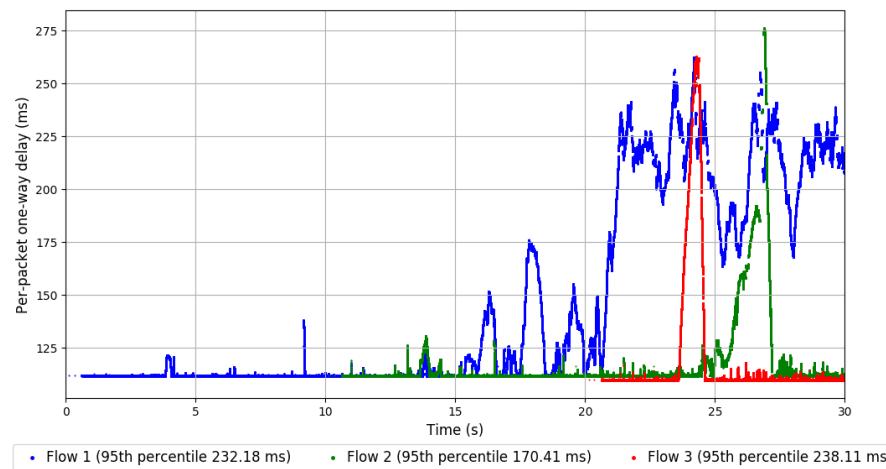
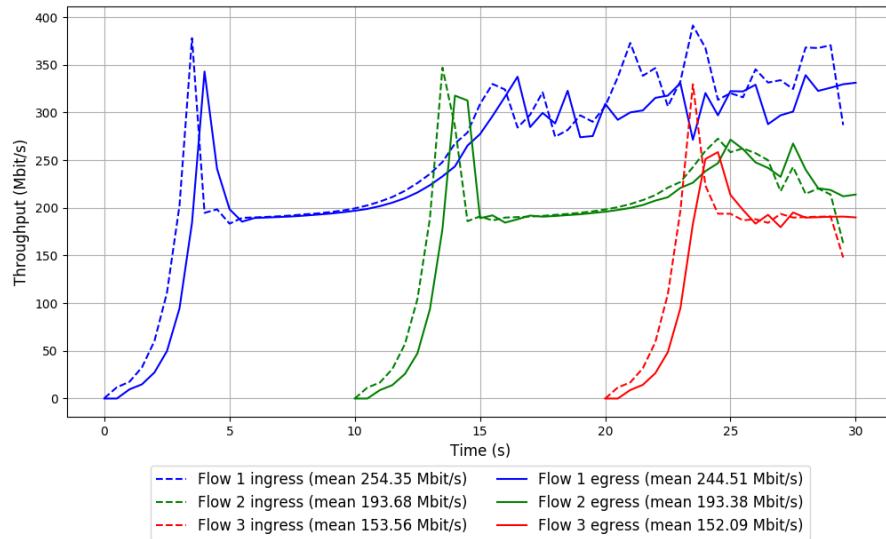


Run 3: Statistics of PCC-Expr

```
Start at: 2019-03-09 01:49:42
End at: 2019-03-09 01:50:12
Local clock offset: -0.26 ms
Remote clock offset: 0.262 ms

# Below is generated by plot.py at 2019-03-09 05:21:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 423.22 Mbit/s
95th percentile per-packet one-way delay: 229.145 ms
Loss rate: 2.43%
-- Flow 1:
Average throughput: 244.51 Mbit/s
95th percentile per-packet one-way delay: 232.175 ms
Loss rate: 3.88%
-- Flow 2:
Average throughput: 193.38 Mbit/s
95th percentile per-packet one-way delay: 170.411 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 152.09 Mbit/s
95th percentile per-packet one-way delay: 238.107 ms
Loss rate: 0.96%
```

Run 3: Report of PCC-Expr — Data Link

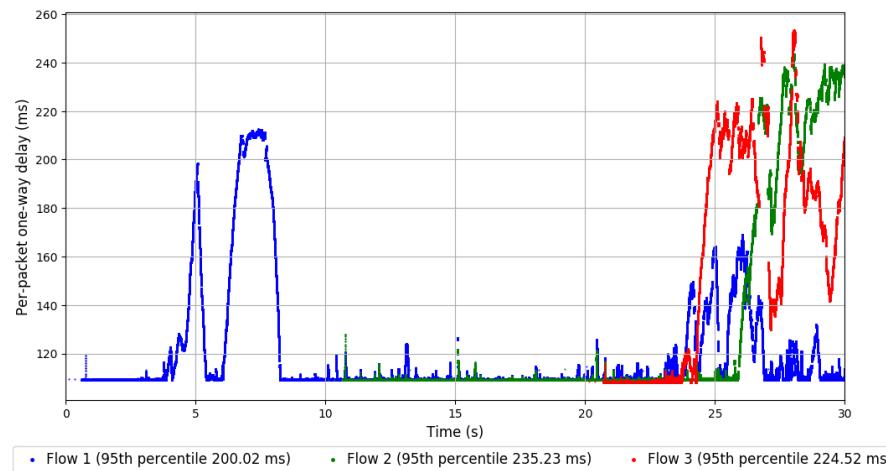
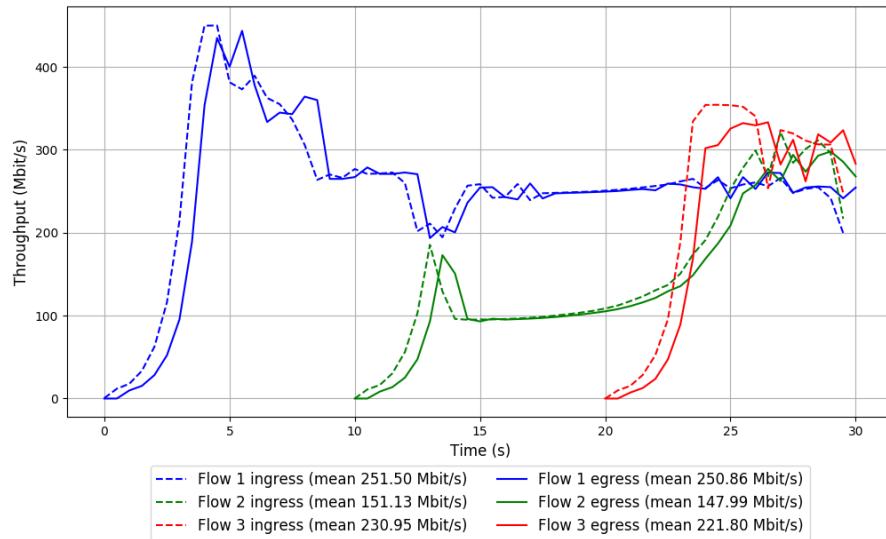


Run 4: Statistics of PCC-Expr

```
Start at: 2019-03-09 02:27:46
End at: 2019-03-09 02:28:16
Local clock offset: -0.094 ms
Remote clock offset: -0.181 ms

# Below is generated by plot.py at 2019-03-09 05:25:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 422.29 Mbit/s
95th percentile per-packet one-way delay: 221.748 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 250.86 Mbit/s
95th percentile per-packet one-way delay: 200.022 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 147.99 Mbit/s
95th percentile per-packet one-way delay: 235.232 ms
Loss rate: 2.08%
-- Flow 3:
Average throughput: 221.80 Mbit/s
95th percentile per-packet one-way delay: 224.524 ms
Loss rate: 3.97%
```

Run 4: Report of PCC-Expr — Data Link

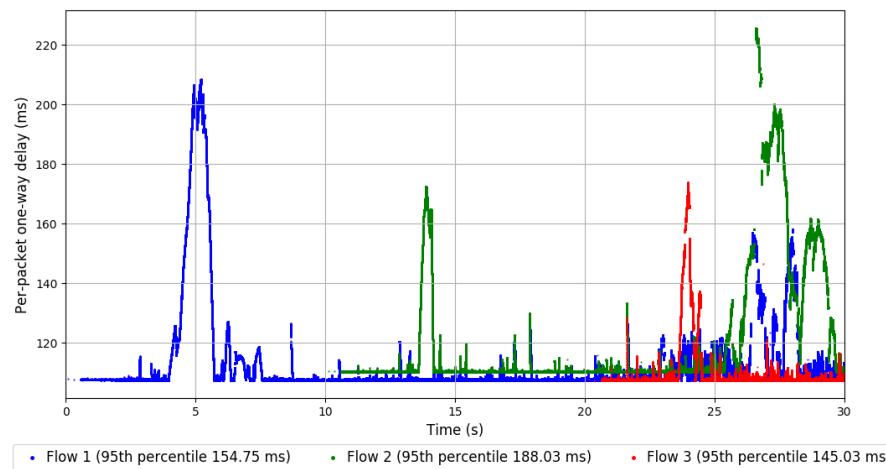
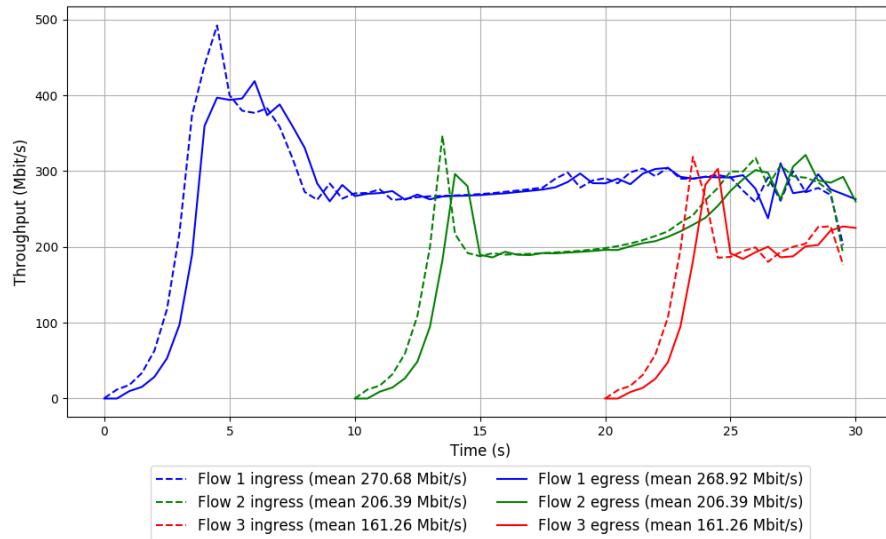


Run 5: Statistics of PCC-Expr

```
Start at: 2019-03-09 03:04:54
End at: 2019-03-09 03:05:24
Local clock offset: 0.31 ms
Remote clock offset: -0.413 ms

# Below is generated by plot.py at 2019-03-09 05:28:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 459.26 Mbit/s
95th percentile per-packet one-way delay: 169.122 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 268.92 Mbit/s
95th percentile per-packet one-way delay: 154.745 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 206.39 Mbit/s
95th percentile per-packet one-way delay: 188.034 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 161.26 Mbit/s
95th percentile per-packet one-way delay: 145.032 ms
Loss rate: 0.00%
```

Run 5: Report of PCC-Expr — Data Link

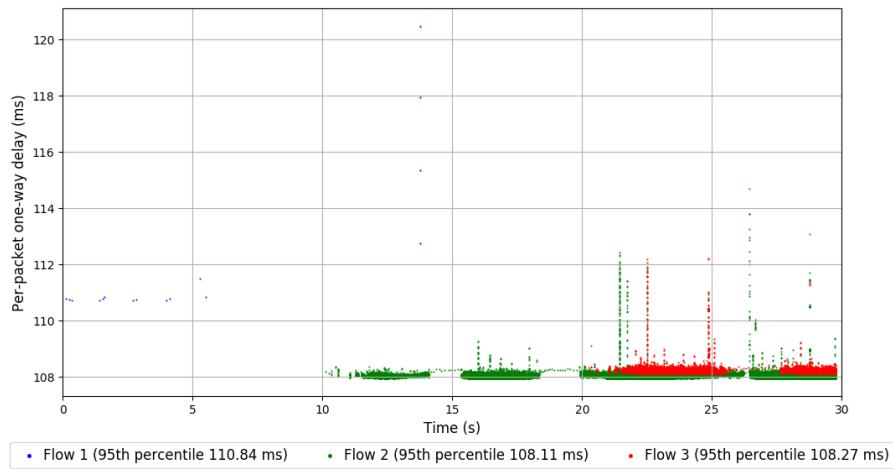
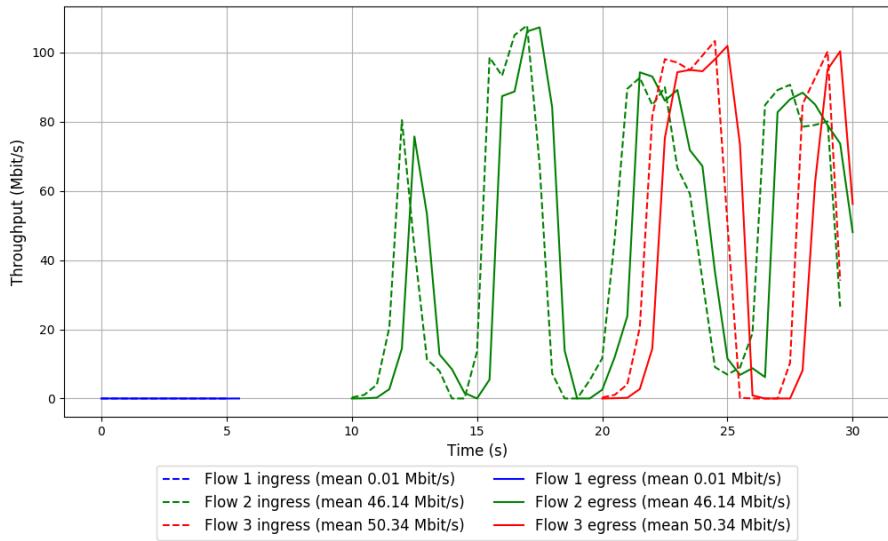


```
Run 1: Statistics of QUIC Cubic
```

```
Start at: 2019-03-09 00:14:20
End at: 2019-03-09 00:14:50
Local clock offset: -0.196 ms
Remote clock offset: -0.25 ms

# Below is generated by plot.py at 2019-03-09 05:28:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 46.99 Mbit/s
95th percentile per-packet one-way delay: 108.232 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 110.843 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 46.14 Mbit/s
95th percentile per-packet one-way delay: 108.106 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 50.34 Mbit/s
95th percentile per-packet one-way delay: 108.273 ms
Loss rate: 0.00%
```

Run 1: Report of QUIC Cubic — Data Link

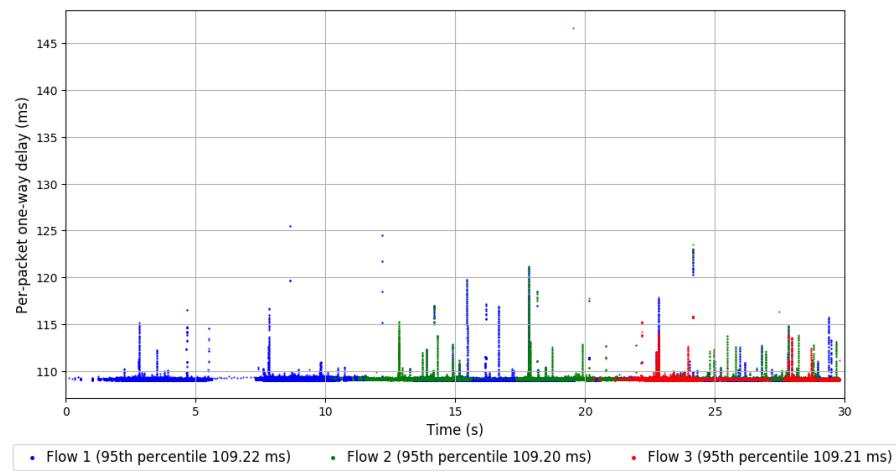
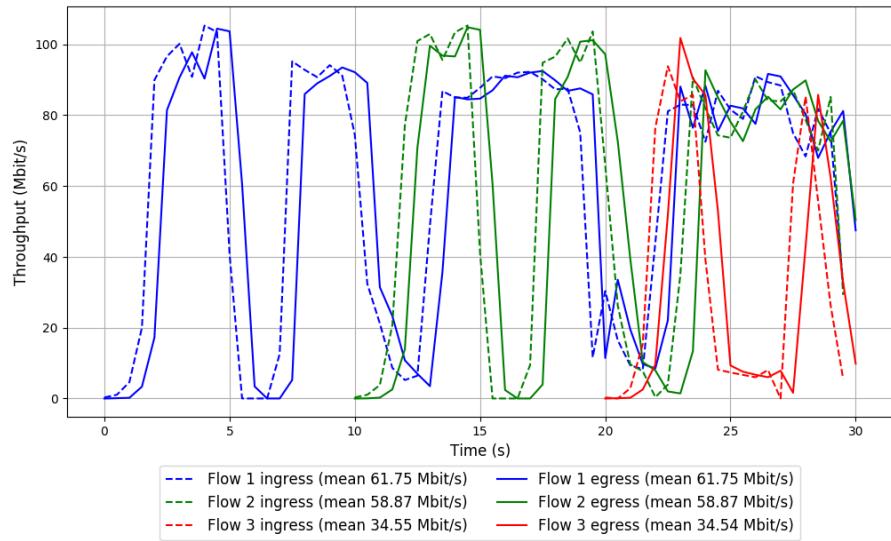


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-03-09 00:51:08
End at: 2019-03-09 00:51:38
Local clock offset: -0.098 ms
Remote clock offset: 0.015 ms

# Below is generated by plot.py at 2019-03-09 05:28:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 111.96 Mbit/s
95th percentile per-packet one-way delay: 109.215 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 61.75 Mbit/s
95th percentile per-packet one-way delay: 109.225 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 58.87 Mbit/s
95th percentile per-packet one-way delay: 109.201 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 34.54 Mbit/s
95th percentile per-packet one-way delay: 109.208 ms
Loss rate: 0.00%
```

Run 2: Report of QUIC Cubic — Data Link

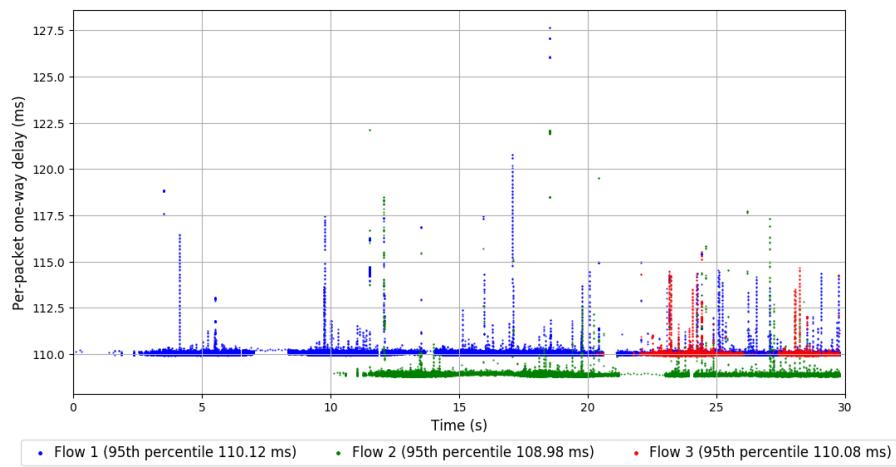
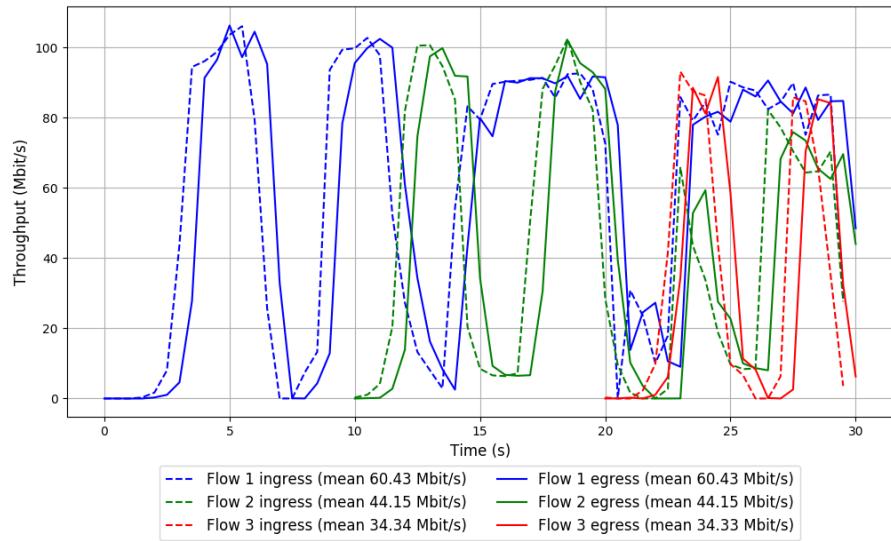


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-03-09 01:28:24
End at: 2019-03-09 01:28:54
Local clock offset: -0.028 ms
Remote clock offset: -0.134 ms

# Below is generated by plot.py at 2019-03-09 05:28:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 100.86 Mbit/s
95th percentile per-packet one-way delay: 110.104 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 60.43 Mbit/s
95th percentile per-packet one-way delay: 110.125 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 44.15 Mbit/s
95th percentile per-packet one-way delay: 108.983 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 34.33 Mbit/s
95th percentile per-packet one-way delay: 110.077 ms
Loss rate: 0.00%
```

Run 3: Report of QUIC Cubic — Data Link

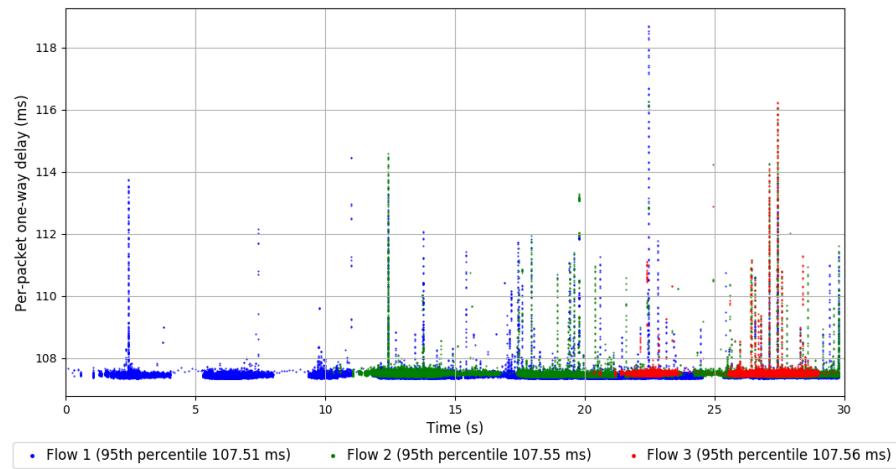
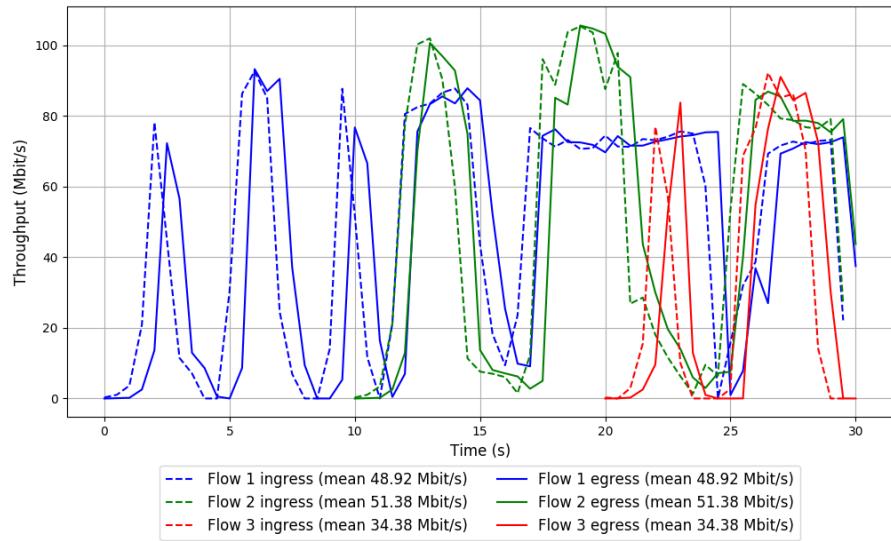


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-03-09 02:05:59
End at: 2019-03-09 02:06:29
Local clock offset: 0.73 ms
Remote clock offset: -0.103 ms

# Below is generated by plot.py at 2019-03-09 05:28:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.08 Mbit/s
95th percentile per-packet one-way delay: 107.540 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 48.92 Mbit/s
95th percentile per-packet one-way delay: 107.510 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 51.38 Mbit/s
95th percentile per-packet one-way delay: 107.553 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 34.38 Mbit/s
95th percentile per-packet one-way delay: 107.565 ms
Loss rate: 0.00%
```

Run 4: Report of QUIC Cubic — Data Link

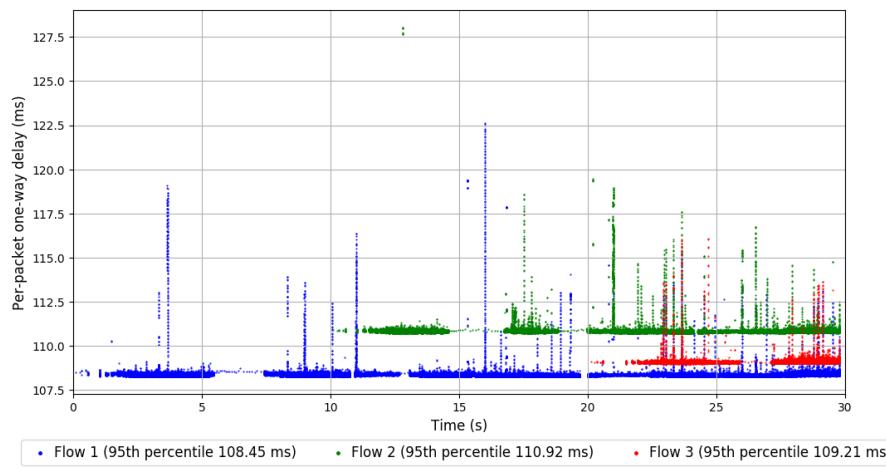
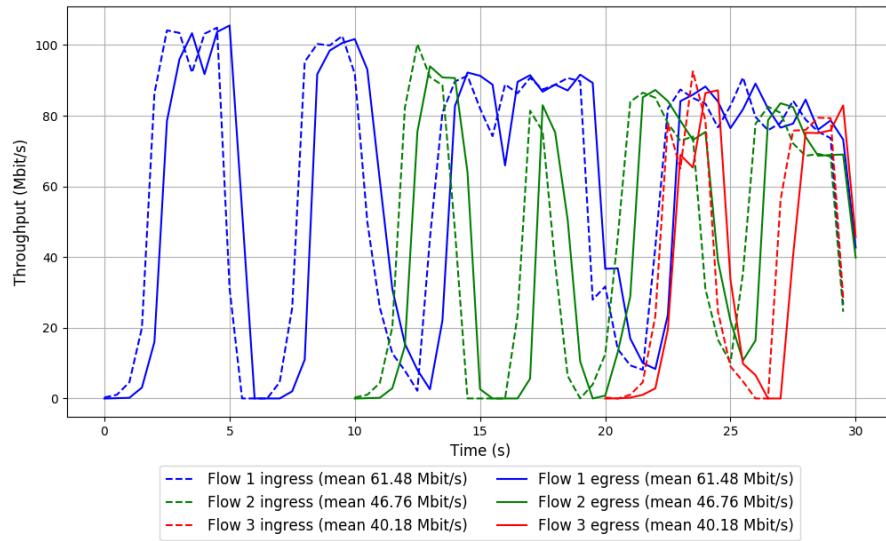


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-03-09 02:43:50
End at: 2019-03-09 02:44:20
Local clock offset: -0.145 ms
Remote clock offset: -0.122 ms

# Below is generated by plot.py at 2019-03-09 05:28:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 105.56 Mbit/s
95th percentile per-packet one-way delay: 110.850 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 61.48 Mbit/s
95th percentile per-packet one-way delay: 108.453 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 46.76 Mbit/s
95th percentile per-packet one-way delay: 110.917 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 40.18 Mbit/s
95th percentile per-packet one-way delay: 109.209 ms
Loss rate: 0.00%
```

Run 5: Report of QUIC Cubic — Data Link

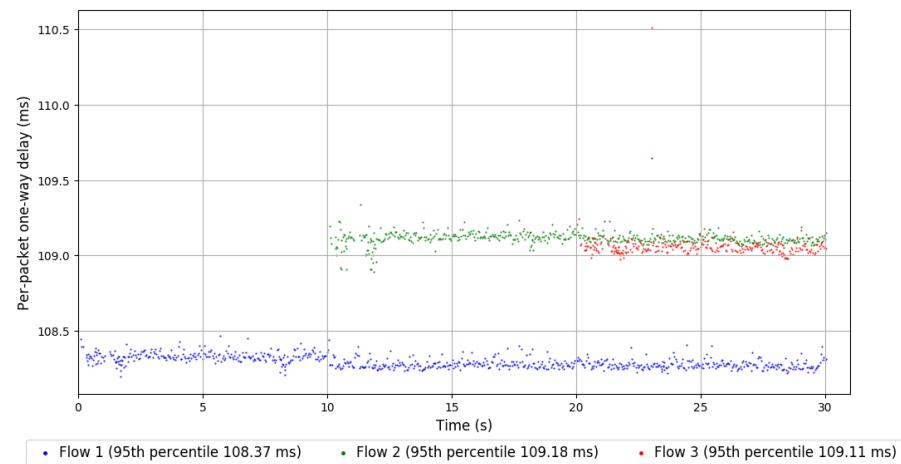
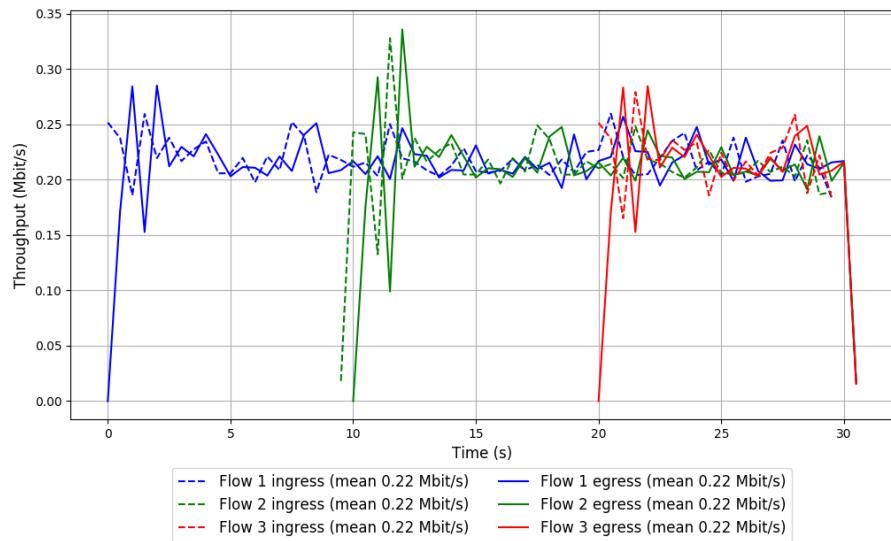


Run 1: Statistics of SCReAM

```
Start at: 2019-03-09 00:41:46
End at: 2019-03-09 00:42:16
Local clock offset: -0.261 ms
Remote clock offset: -0.388 ms

# Below is generated by plot.py at 2019-03-09 05:28:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 109.150 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 108.374 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.176 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.113 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link

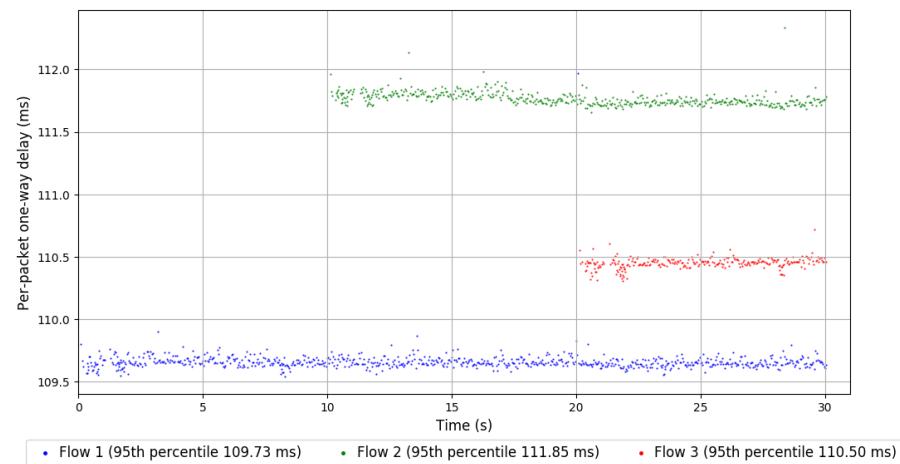
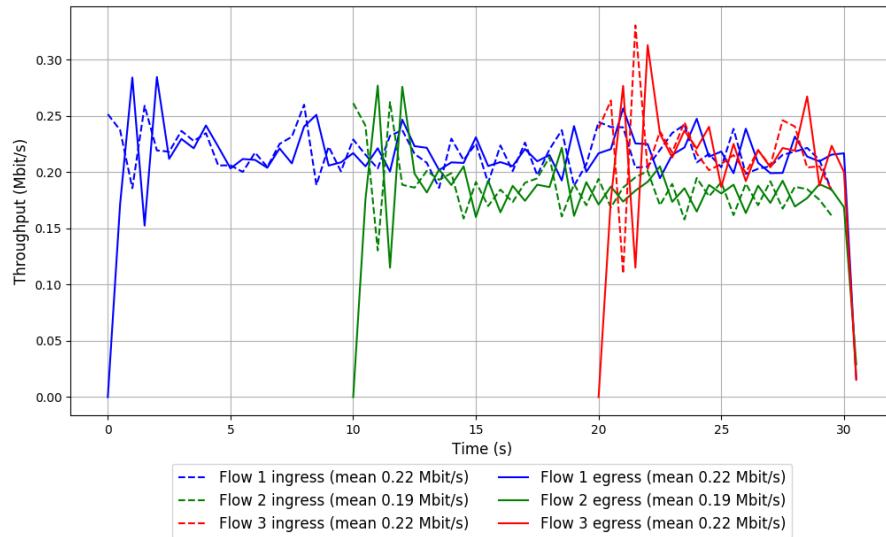


Run 2: Statistics of SCReAM

```
Start at: 2019-03-09 01:19:13
End at: 2019-03-09 01:19:43
Local clock offset: -0.246 ms
Remote clock offset: -0.123 ms

# Below is generated by plot.py at 2019-03-09 05:28:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 111.817 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.731 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 111.851 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.504 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link

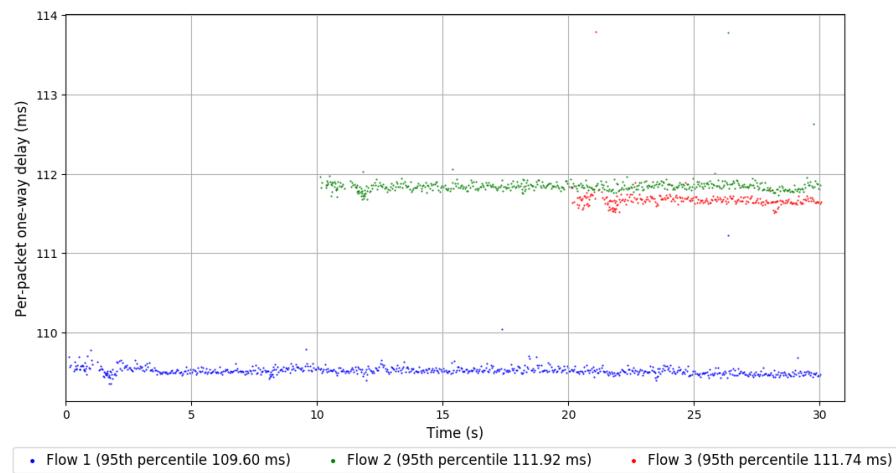
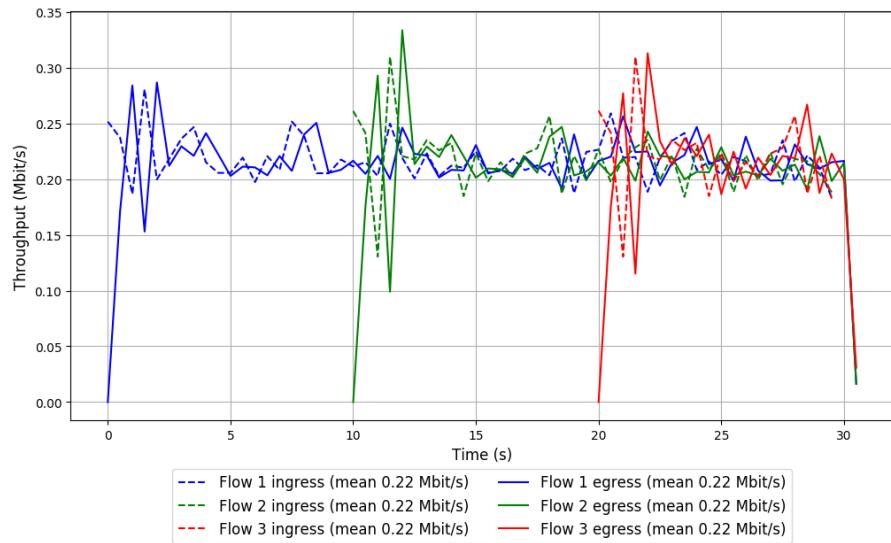


Run 3: Statistics of SCReAM

```
Start at: 2019-03-09 01:56:38
End at: 2019-03-09 01:57:08
Local clock offset: -0.307 ms
Remote clock offset: -0.14 ms

# Below is generated by plot.py at 2019-03-09 05:28:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 111.892 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.604 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.919 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.739 ms
Loss rate: 0.00%
```

Run 3: Report of SCReAM — Data Link

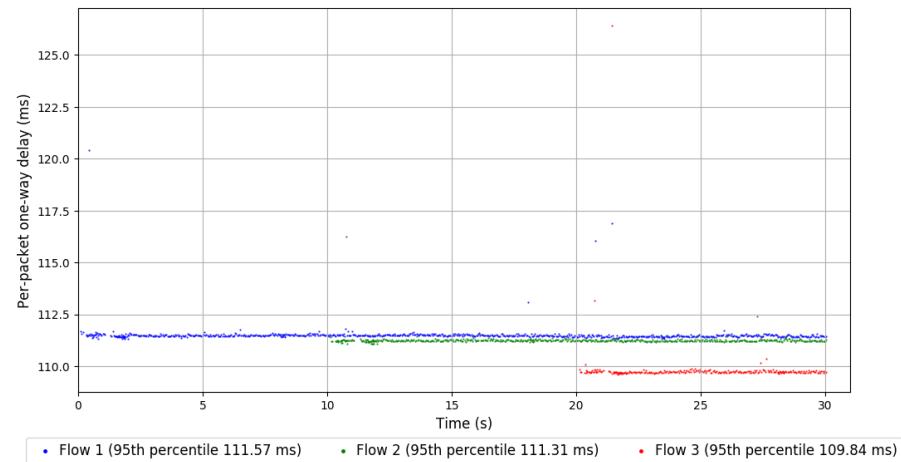
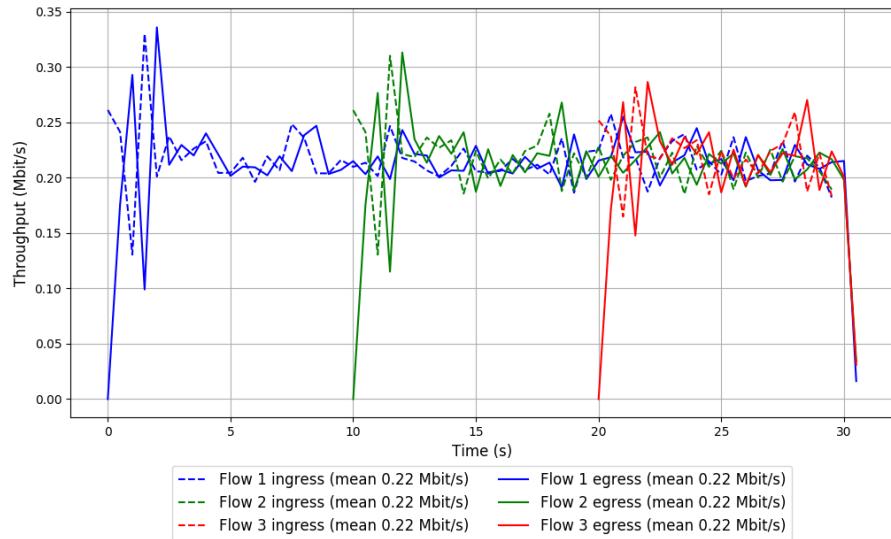


Run 4: Statistics of SCReAM

```
Start at: 2019-03-09 02:34:33
End at: 2019-03-09 02:35:03
Local clock offset: -0.639 ms
Remote clock offset: -0.087 ms

# Below is generated by plot.py at 2019-03-09 05:28:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 111.546 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.567 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.310 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.842 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link

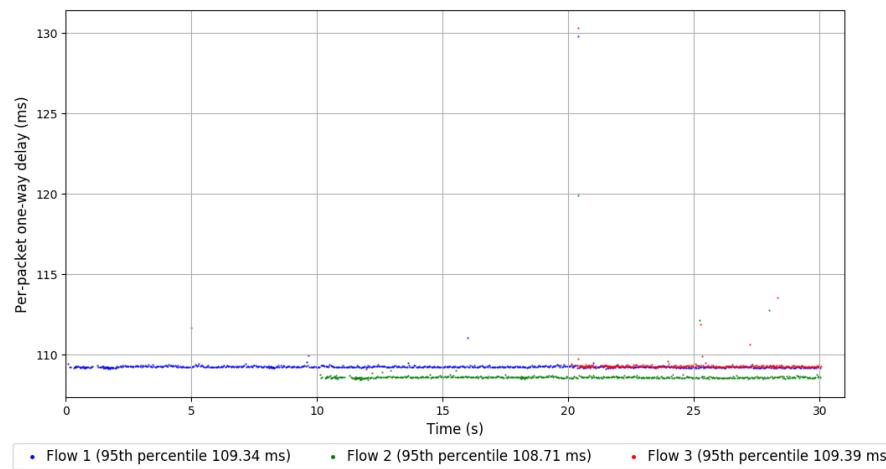
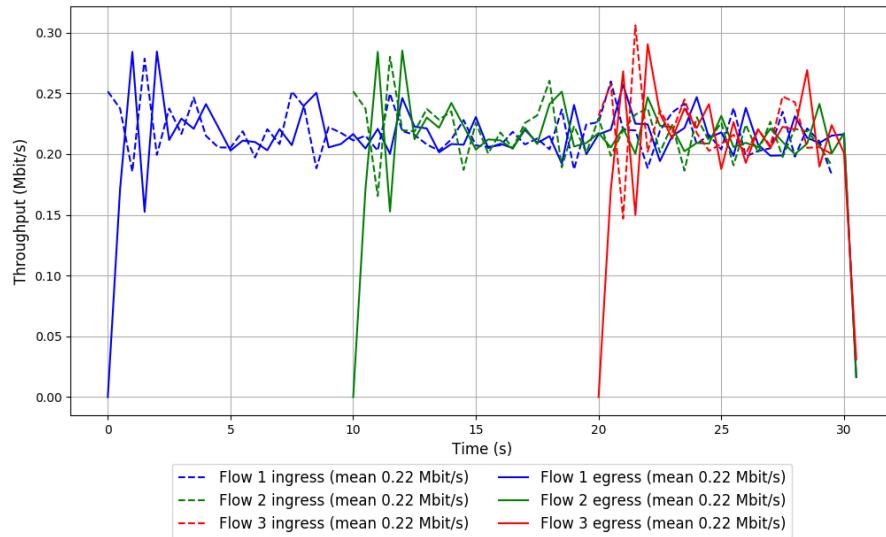


Run 5: Statistics of SCReAM

```
Start at: 2019-03-09 03:11:41
End at: 2019-03-09 03:12:11
Local clock offset: -0.124 ms
Remote clock offset: -0.074 ms

# Below is generated by plot.py at 2019-03-09 05:28:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 109.342 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.340 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 108.707 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.391 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link

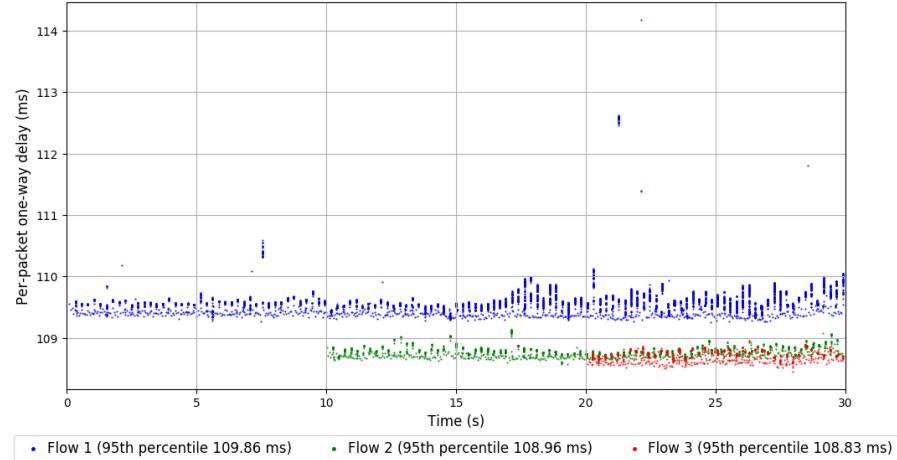
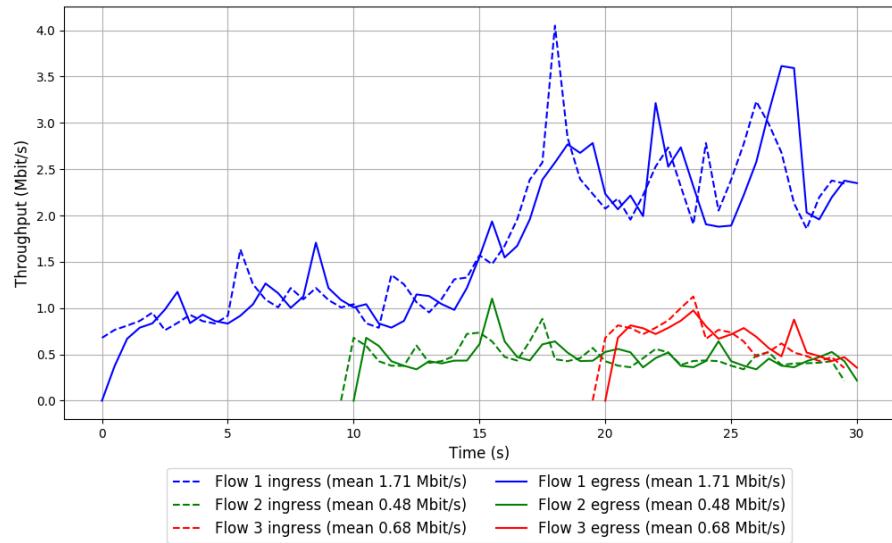


Run 1: Statistics of Sprout

```
Start at: 2019-03-09 00:40:29
End at: 2019-03-09 00:40:59
Local clock offset: -0.156 ms
Remote clock offset: 0.008 ms

# Below is generated by plot.py at 2019-03-09 05:28:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 109.839 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.71 Mbit/s
95th percentile per-packet one-way delay: 109.863 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.48 Mbit/s
95th percentile per-packet one-way delay: 108.959 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.68 Mbit/s
95th percentile per-packet one-way delay: 108.834 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link

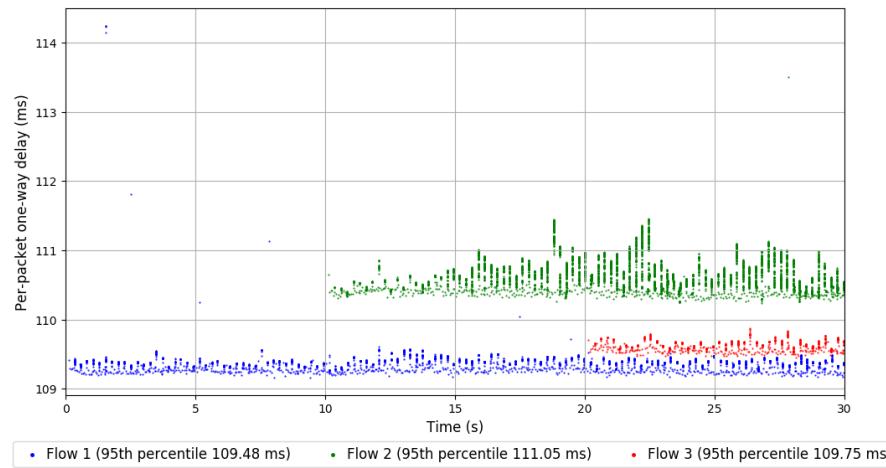
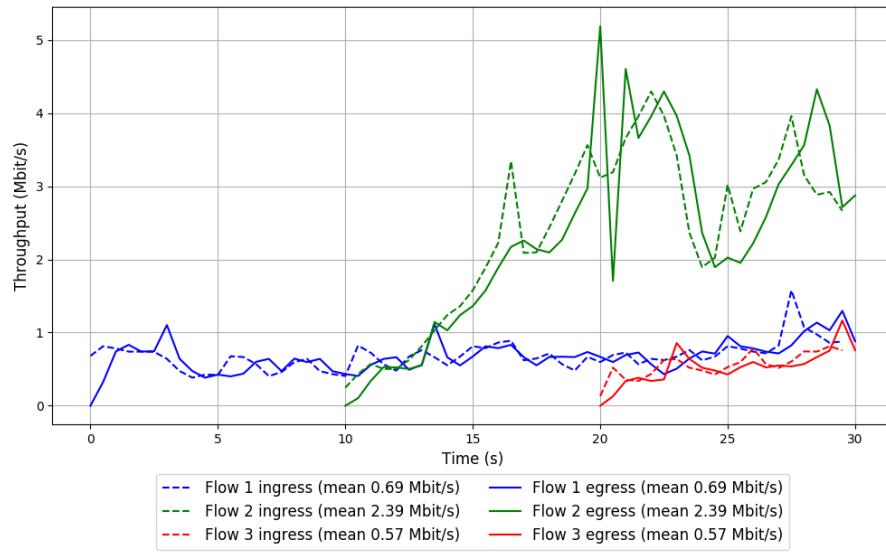


Run 2: Statistics of Sprout

```
Start at: 2019-03-09 01:17:56
End at: 2019-03-09 01:18:26
Local clock offset: -0.261 ms
Remote clock offset: -0.134 ms

# Below is generated by plot.py at 2019-03-09 05:28:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.46 Mbit/s
95th percentile per-packet one-way delay: 110.974 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.69 Mbit/s
95th percentile per-packet one-way delay: 109.484 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 2.39 Mbit/s
95th percentile per-packet one-way delay: 111.048 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 109.747 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link

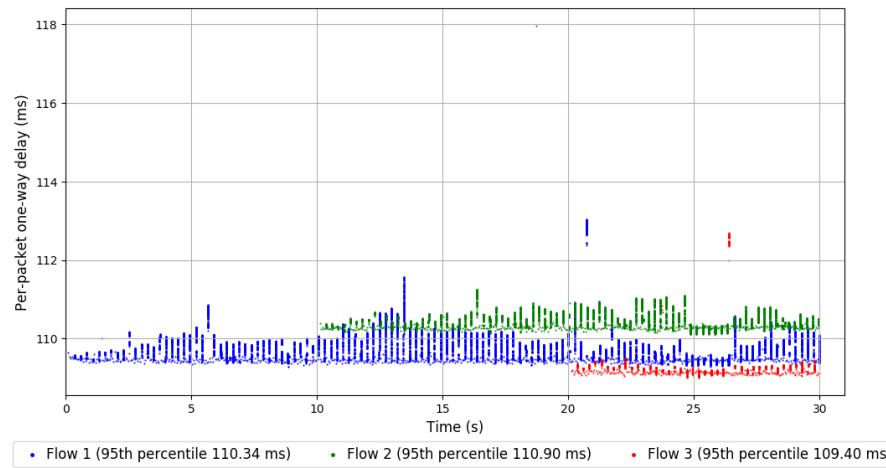
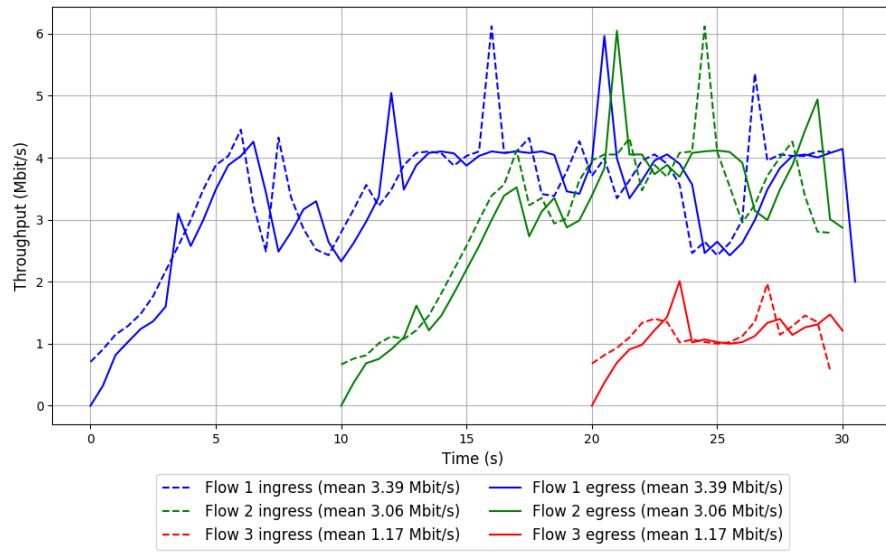


Run 3: Statistics of Sprout

```
Start at: 2019-03-09 01:55:20
End at: 2019-03-09 01:55:50
Local clock offset: 0.07 ms
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2019-03-09 05:28:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.81 Mbit/s
95th percentile per-packet one-way delay: 110.769 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.39 Mbit/s
95th percentile per-packet one-way delay: 110.342 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.06 Mbit/s
95th percentile per-packet one-way delay: 110.899 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.17 Mbit/s
95th percentile per-packet one-way delay: 109.396 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

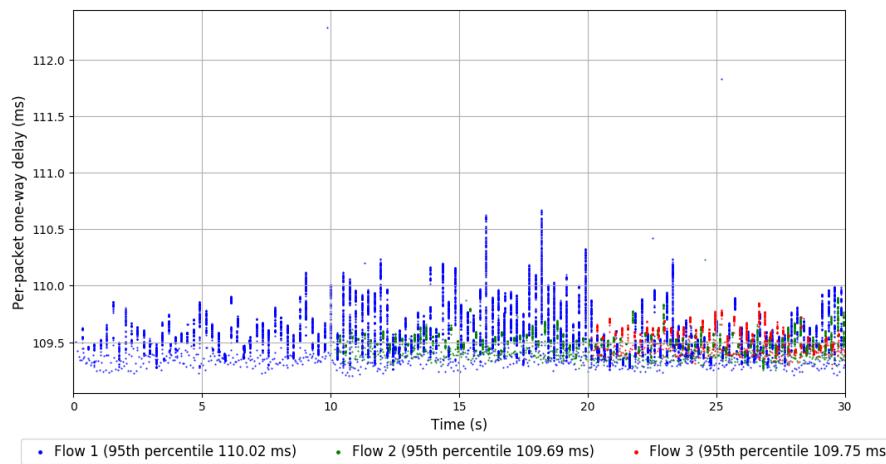
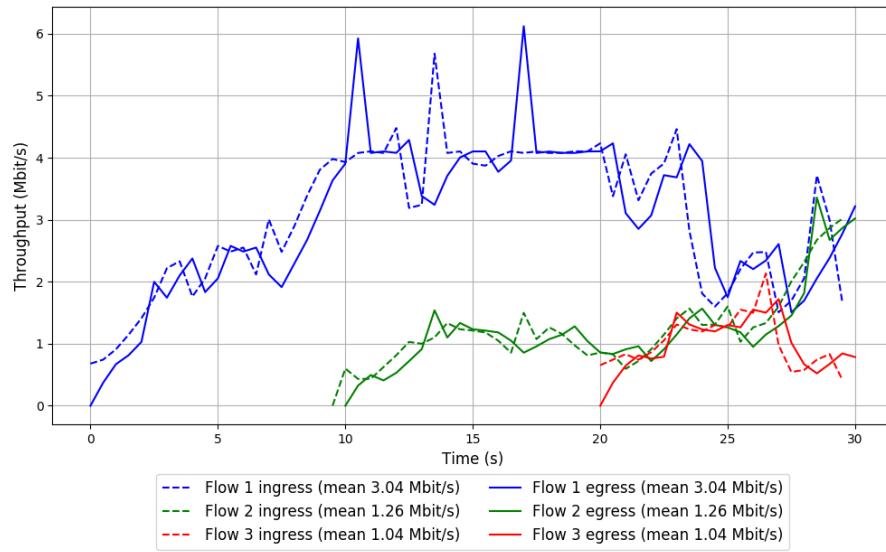


Run 4: Statistics of Sprout

```
Start at: 2019-03-09 02:33:16
End at: 2019-03-09 02:33:46
Local clock offset: -0.42 ms
Remote clock offset: -0.465 ms

# Below is generated by plot.py at 2019-03-09 05:28:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.22 Mbit/s
95th percentile per-packet one-way delay: 109.965 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.04 Mbit/s
95th percentile per-packet one-way delay: 110.015 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.26 Mbit/s
95th percentile per-packet one-way delay: 109.689 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.04 Mbit/s
95th percentile per-packet one-way delay: 109.751 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

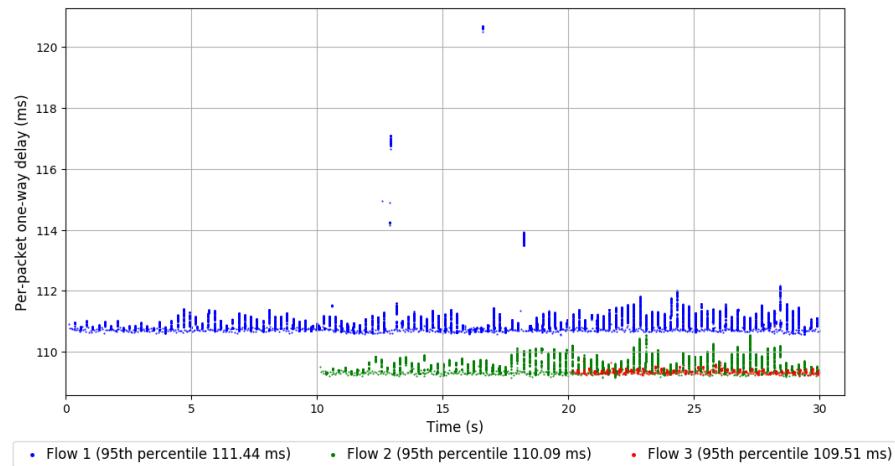
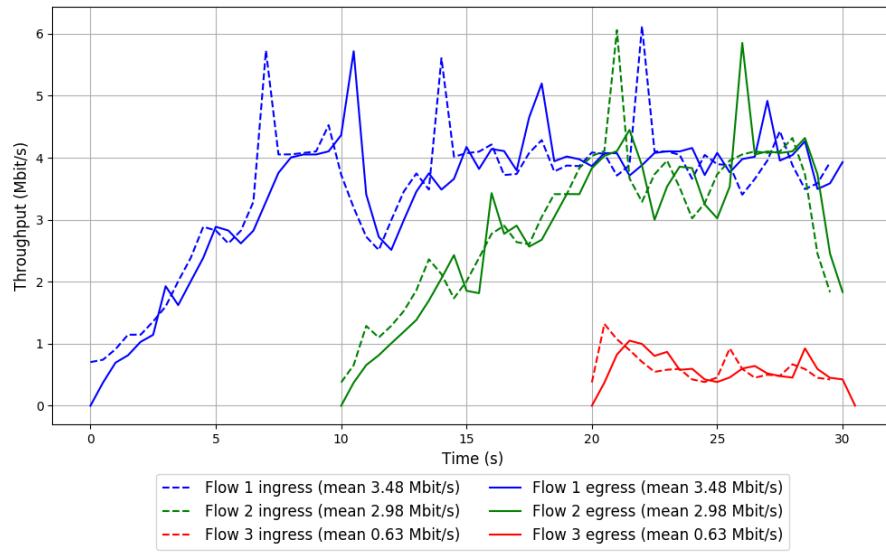


Run 5: Statistics of Sprout

```
Start at: 2019-03-09 03:10:23
End at: 2019-03-09 03:10:53
Local clock offset: -0.091 ms
Remote clock offset: -0.022 ms

# Below is generated by plot.py at 2019-03-09 05:28:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.67 Mbit/s
95th percentile per-packet one-way delay: 111.342 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.48 Mbit/s
95th percentile per-packet one-way delay: 111.438 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 2.98 Mbit/s
95th percentile per-packet one-way delay: 110.087 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.63 Mbit/s
95th percentile per-packet one-way delay: 109.506 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

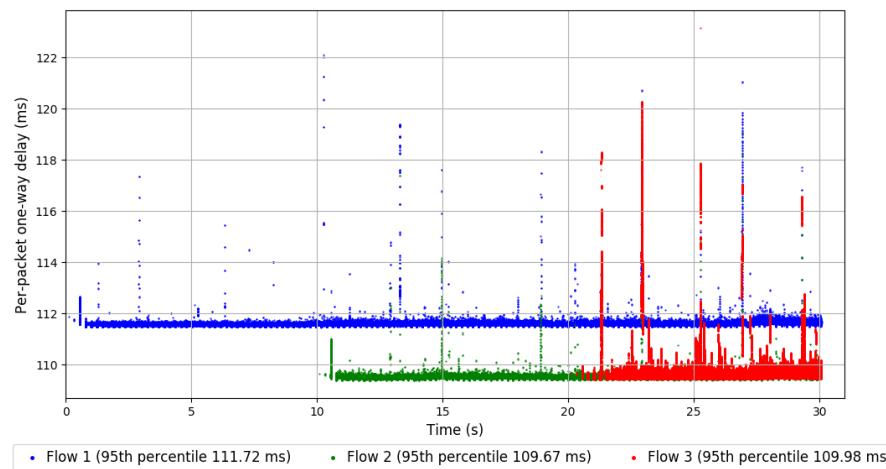
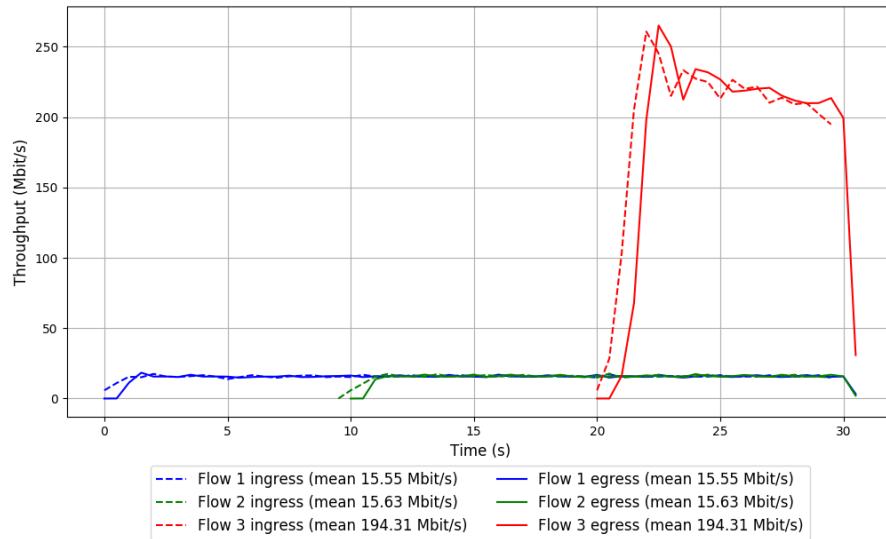


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-03-09 00:30:14
End at: 2019-03-09 00:30:44
Local clock offset: -0.153 ms
Remote clock offset: -0.015 ms

# Below is generated by plot.py at 2019-03-09 05:28:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.57 Mbit/s
95th percentile per-packet one-way delay: 111.623 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 15.55 Mbit/s
95th percentile per-packet one-way delay: 111.722 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 15.63 Mbit/s
95th percentile per-packet one-way delay: 109.665 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 194.31 Mbit/s
95th percentile per-packet one-way delay: 109.977 ms
Loss rate: 0.00%
```

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

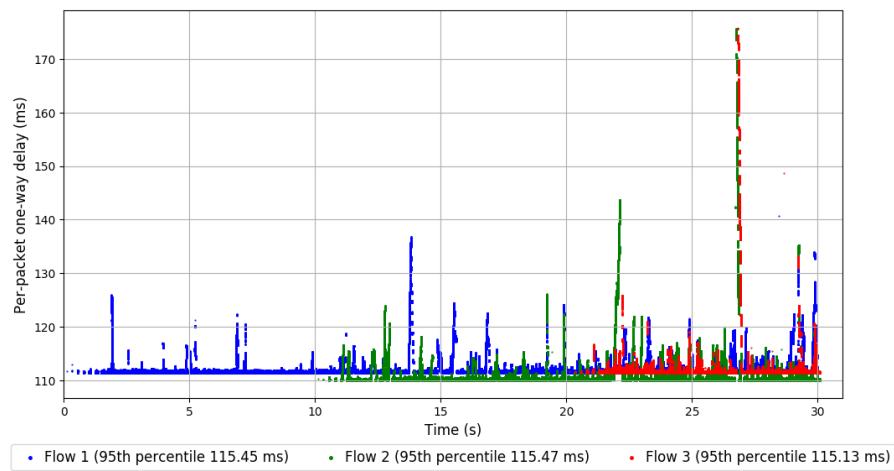
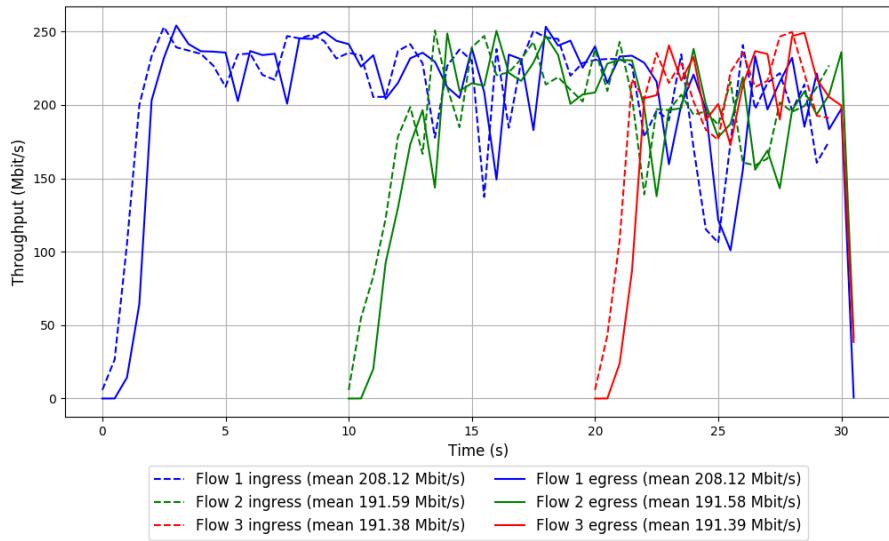


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-03-09 01:07:12
End at: 2019-03-09 01:07:42
Local clock offset: -0.005 ms
Remote clock offset: -0.074 ms

# Below is generated by plot.py at 2019-03-09 05:32:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 398.64 Mbit/s
95th percentile per-packet one-way delay: 115.417 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 208.12 Mbit/s
95th percentile per-packet one-way delay: 115.452 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 191.58 Mbit/s
95th percentile per-packet one-way delay: 115.475 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 191.39 Mbit/s
95th percentile per-packet one-way delay: 115.130 ms
Loss rate: 0.00%
```

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

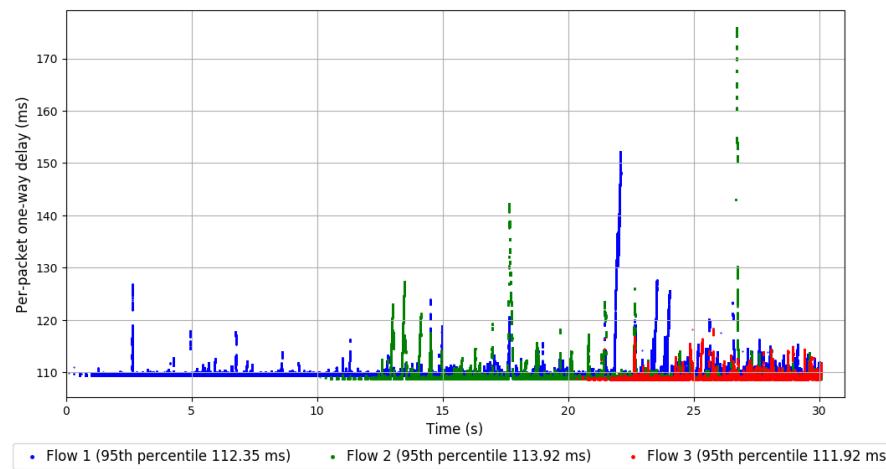
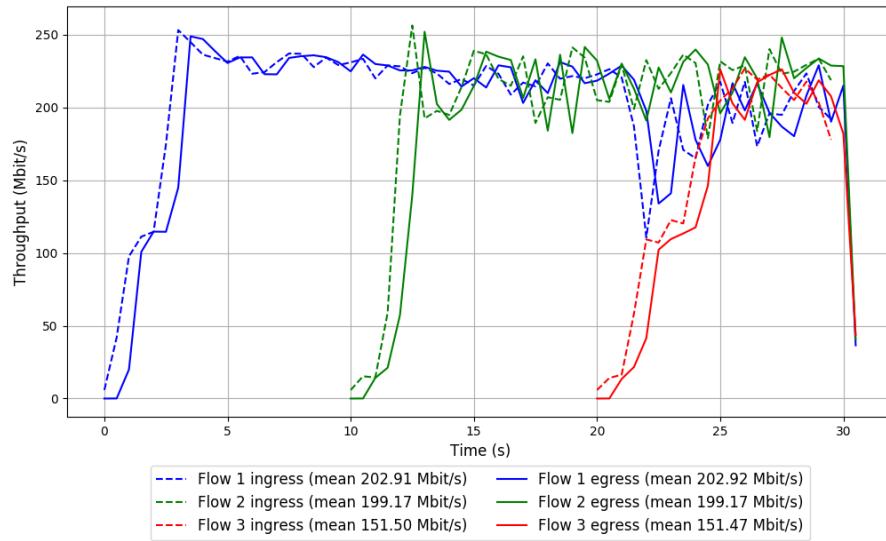


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-03-09 01:44:29
End at: 2019-03-09 01:44:59
Local clock offset: -0.156 ms
Remote clock offset: 0.286 ms

# Below is generated by plot.py at 2019-03-09 05:32:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 385.87 Mbit/s
95th percentile per-packet one-way delay: 112.774 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 202.92 Mbit/s
95th percentile per-packet one-way delay: 112.354 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 199.17 Mbit/s
95th percentile per-packet one-way delay: 113.924 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 151.47 Mbit/s
95th percentile per-packet one-way delay: 111.916 ms
Loss rate: 0.00%
```

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

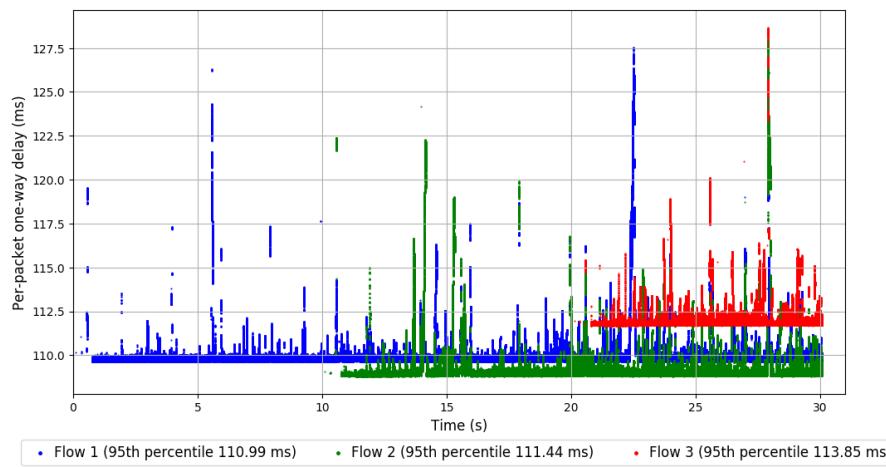
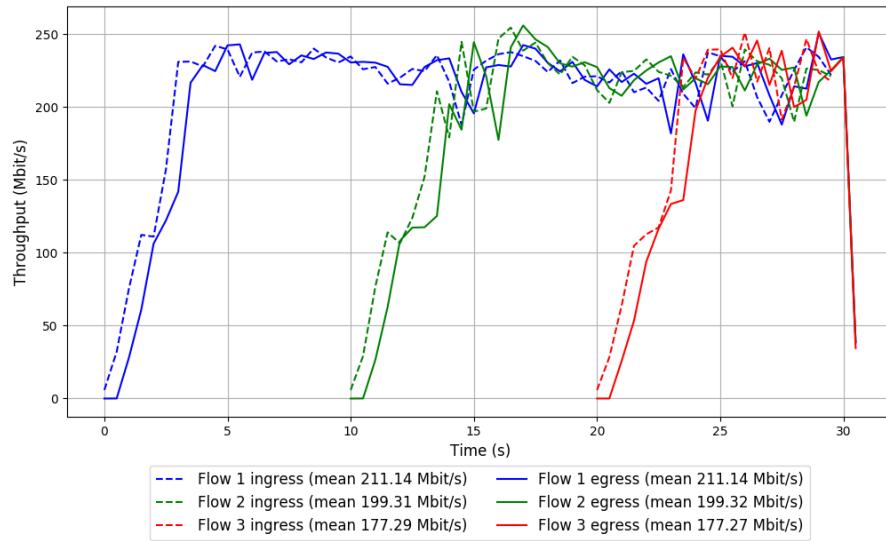


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-03-09 02:22:31
End at: 2019-03-09 02:23:01
Local clock offset: -0.335 ms
Remote clock offset: 0.258 ms

# Below is generated by plot.py at 2019-03-09 05:32:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 402.84 Mbit/s
95th percentile per-packet one-way delay: 112.331 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 211.14 Mbit/s
95th percentile per-packet one-way delay: 110.991 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 199.32 Mbit/s
95th percentile per-packet one-way delay: 111.444 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 177.27 Mbit/s
95th percentile per-packet one-way delay: 113.846 ms
Loss rate: 0.03%
```

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

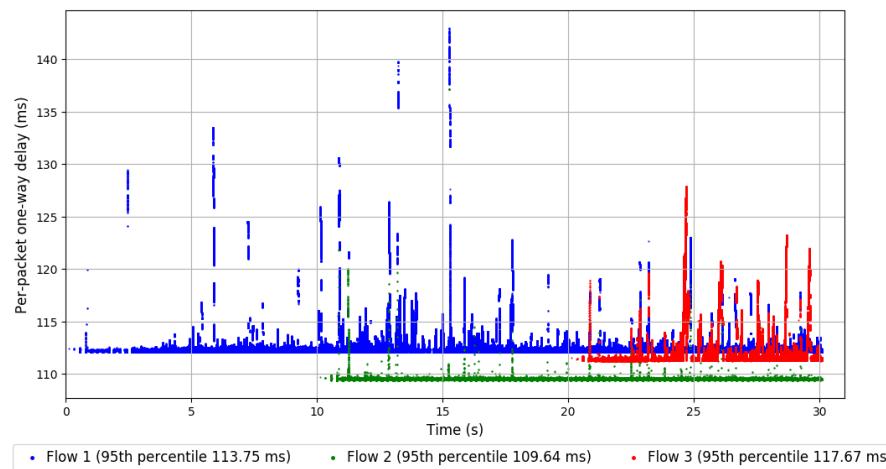
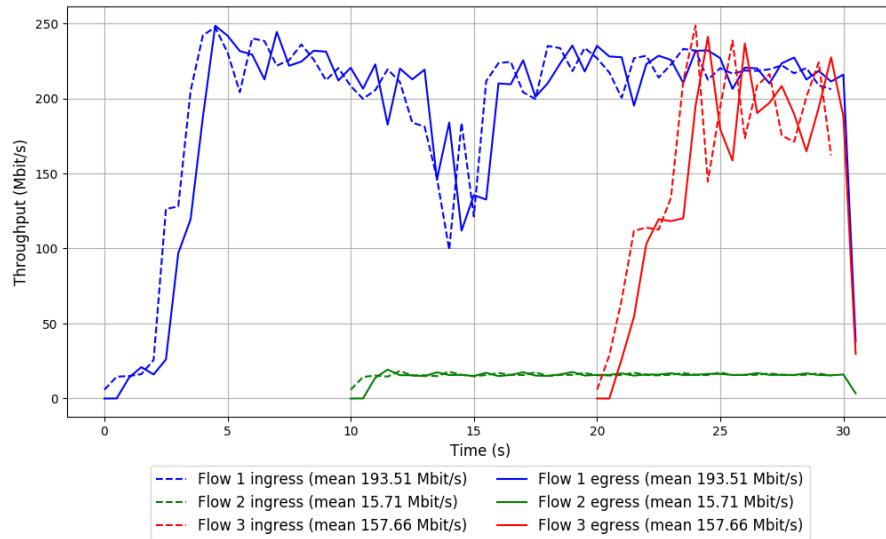


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-03-09 02:59:56
End at: 2019-03-09 03:00:26
Local clock offset: -0.125 ms
Remote clock offset: -0.063 ms

# Below is generated by plot.py at 2019-03-09 05:32:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 256.36 Mbit/s
95th percentile per-packet one-way delay: 114.487 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 193.51 Mbit/s
95th percentile per-packet one-way delay: 113.752 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 15.71 Mbit/s
95th percentile per-packet one-way delay: 109.640 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 157.66 Mbit/s
95th percentile per-packet one-way delay: 117.669 ms
Loss rate: 0.01%
```

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

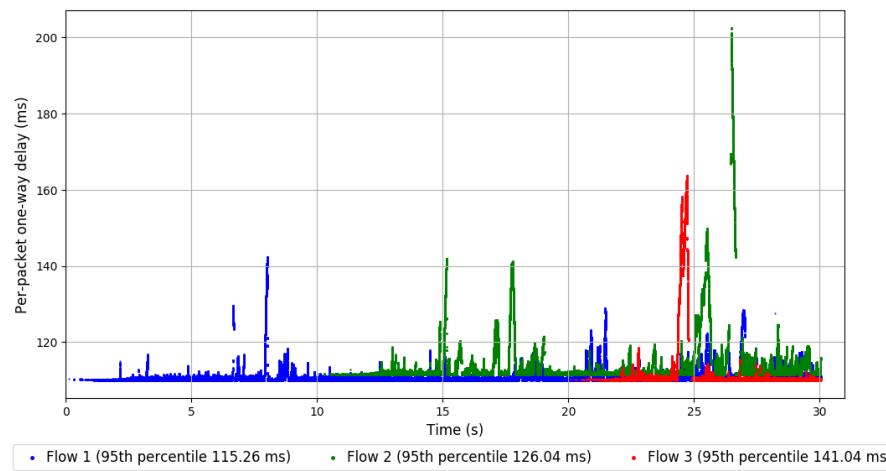
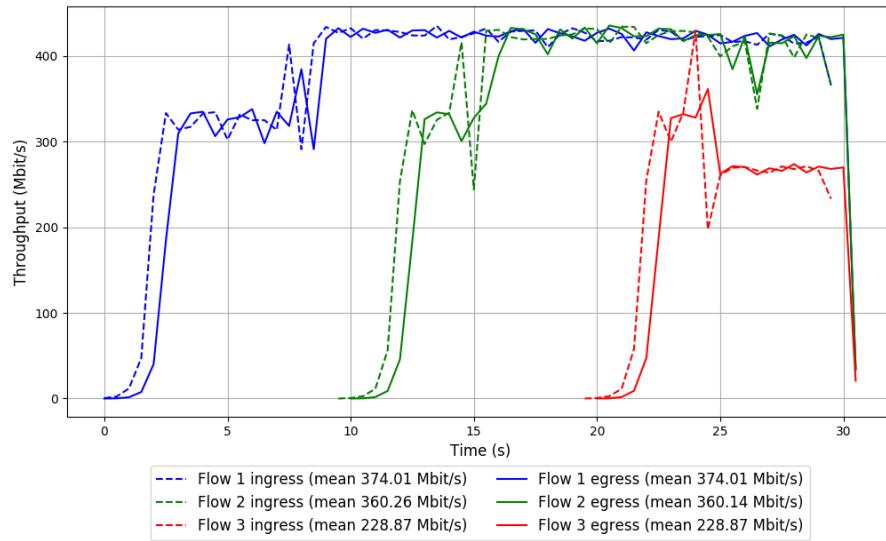


Run 1: Statistics of TCP Vegas

```
Start at: 2019-03-09 00:22:52
End at: 2019-03-09 00:23:22
Local clock offset: -0.094 ms
Remote clock offset: 0.016 ms

# Below is generated by plot.py at 2019-03-09 05:33:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 690.45 Mbit/s
95th percentile per-packet one-way delay: 119.230 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 374.01 Mbit/s
95th percentile per-packet one-way delay: 115.261 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 360.14 Mbit/s
95th percentile per-packet one-way delay: 126.036 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 228.87 Mbit/s
95th percentile per-packet one-way delay: 141.036 ms
Loss rate: 0.00%
```

Run 1: Report of TCP Vegas — Data Link

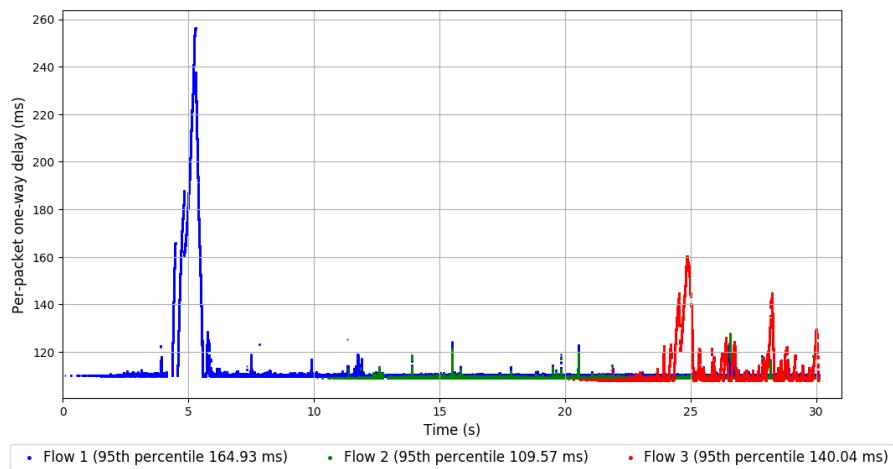
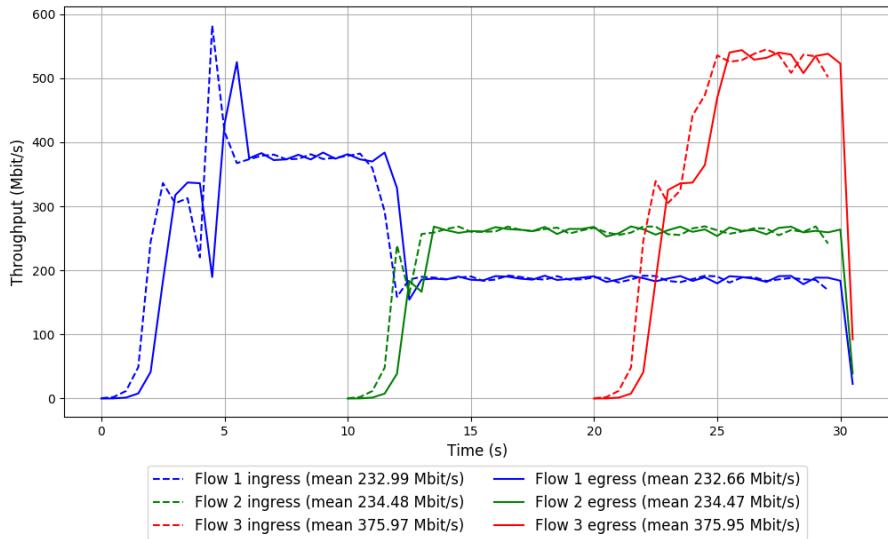


Run 2: Statistics of TCP Vegas

```
Start at: 2019-03-09 00:59:46
End at: 2019-03-09 01:00:16
Local clock offset: 0.052 ms
Remote clock offset: -0.063 ms

# Below is generated by plot.py at 2019-03-09 05:33:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 513.68 Mbit/s
95th percentile per-packet one-way delay: 134.275 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 232.66 Mbit/s
95th percentile per-packet one-way delay: 164.932 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 234.47 Mbit/s
95th percentile per-packet one-way delay: 109.571 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 375.95 Mbit/s
95th percentile per-packet one-way delay: 140.042 ms
Loss rate: 0.00%
```

Run 2: Report of TCP Vegas — Data Link

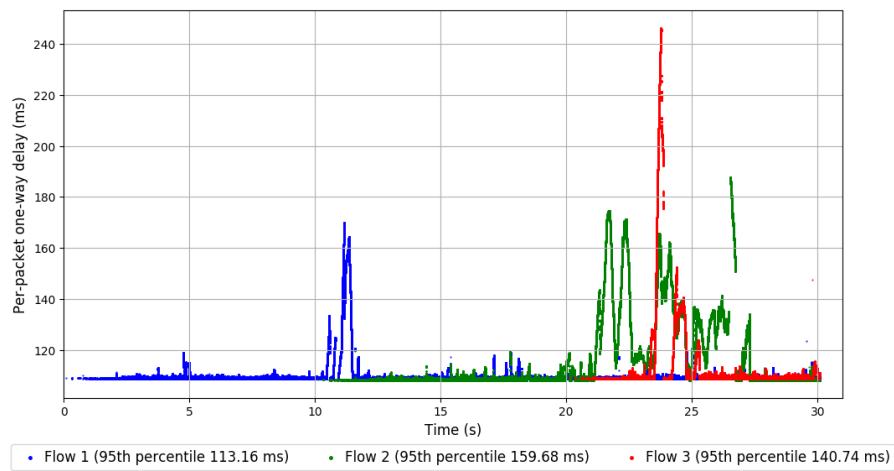
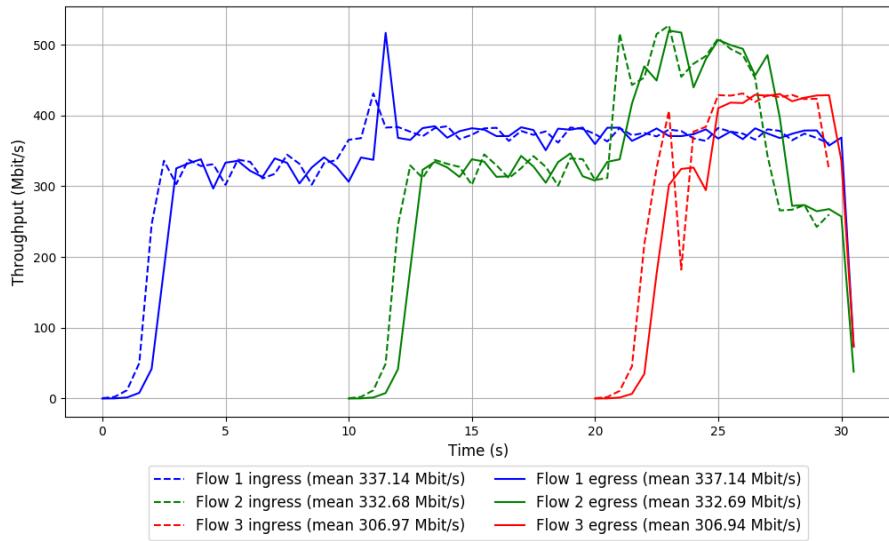


Run 3: Statistics of TCP Vegas

```
Start at: 2019-03-09 01:37:02
End at: 2019-03-09 01:37:32
Local clock offset: -0.237 ms
Remote clock offset: -0.48 ms

# Below is generated by plot.py at 2019-03-09 05:39:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 660.63 Mbit/s
95th percentile per-packet one-way delay: 142.372 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 337.14 Mbit/s
95th percentile per-packet one-way delay: 113.156 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 332.69 Mbit/s
95th percentile per-packet one-way delay: 159.684 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 306.94 Mbit/s
95th percentile per-packet one-way delay: 140.741 ms
Loss rate: 0.02%
```

Run 3: Report of TCP Vegas — Data Link

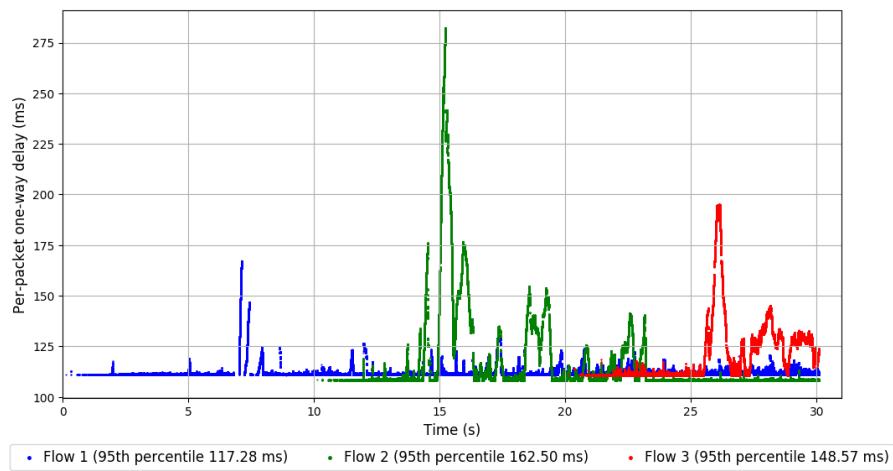
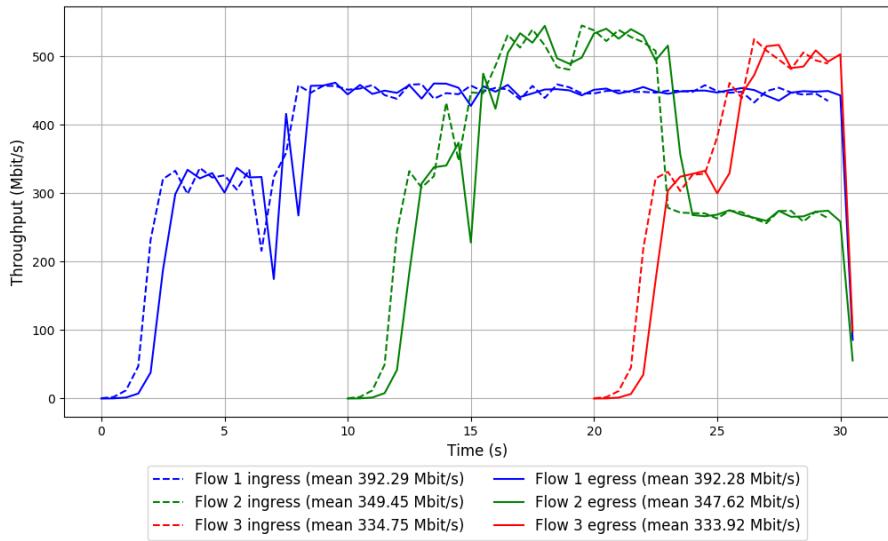


Run 4: Statistics of TCP Vegas

```
Start at: 2019-03-09 02:14:40
End at: 2019-03-09 02:15:10
Local clock offset: -0.218 ms
Remote clock offset: -0.455 ms

# Below is generated by plot.py at 2019-03-09 05:41:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 734.81 Mbit/s
95th percentile per-packet one-way delay: 140.483 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 392.28 Mbit/s
95th percentile per-packet one-way delay: 117.281 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 347.62 Mbit/s
95th percentile per-packet one-way delay: 162.503 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 333.92 Mbit/s
95th percentile per-packet one-way delay: 148.572 ms
Loss rate: 0.27%
```

Run 4: Report of TCP Vegas — Data Link

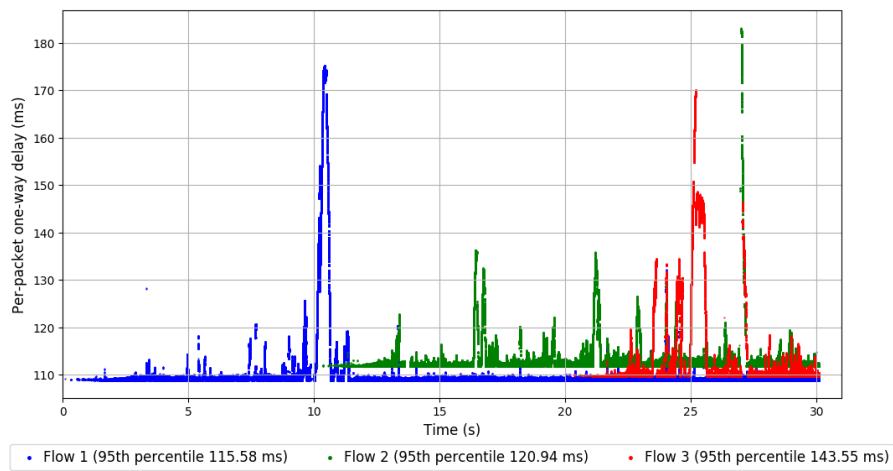
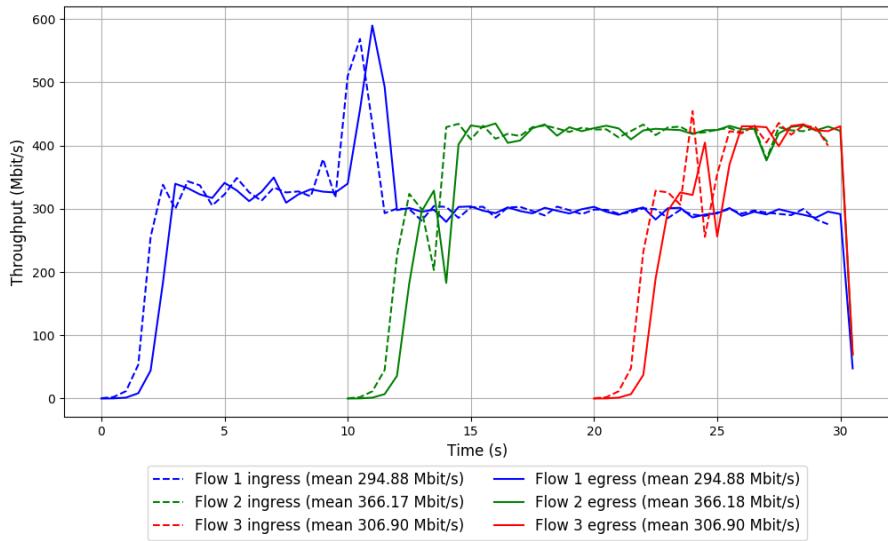


Run 5: Statistics of TCP Vegas

```
Start at: 2019-03-09 02:52:23
End at: 2019-03-09 02:52:53
Local clock offset: -0.627 ms
Remote clock offset: -0.085 ms

# Below is generated by plot.py at 2019-03-09 05:41:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 640.67 Mbit/s
95th percentile per-packet one-way delay: 123.662 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 294.88 Mbit/s
95th percentile per-packet one-way delay: 115.580 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 366.18 Mbit/s
95th percentile per-packet one-way delay: 120.942 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 306.90 Mbit/s
95th percentile per-packet one-way delay: 143.550 ms
Loss rate: 0.00%
```

Run 5: Report of TCP Vegas — Data Link

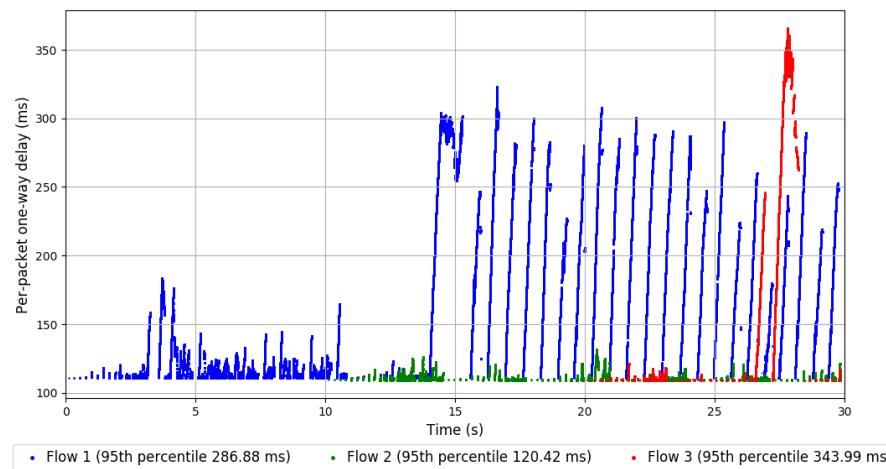
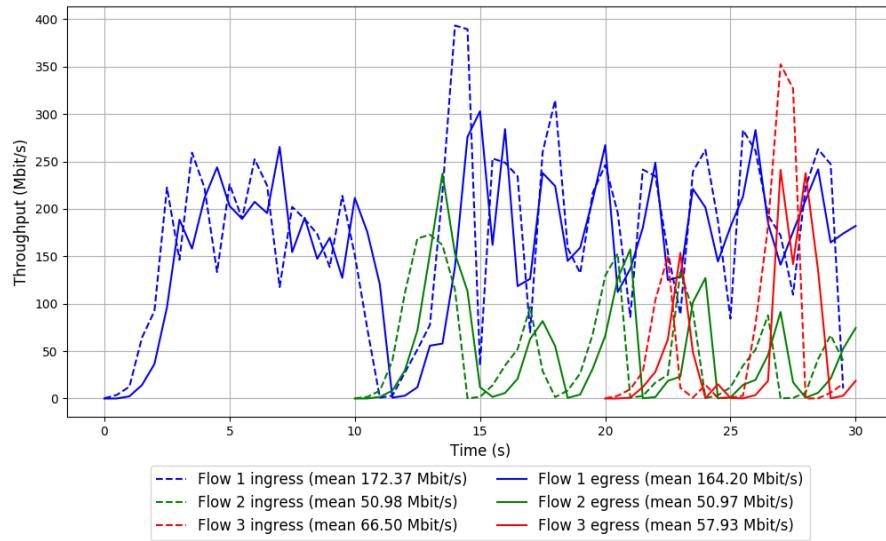


Run 1: Statistics of Verus

```
Start at: 2019-03-09 00:38:48
End at: 2019-03-09 00:39:18
Local clock offset: -0.086 ms
Remote clock offset: -0.023 ms

# Below is generated by plot.py at 2019-03-09 05:41:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 216.40 Mbit/s
95th percentile per-packet one-way delay: 289.806 ms
Loss rate: 4.47%
-- Flow 1:
Average throughput: 164.20 Mbit/s
95th percentile per-packet one-way delay: 286.879 ms
Loss rate: 4.29%
-- Flow 2:
Average throughput: 50.97 Mbit/s
95th percentile per-packet one-way delay: 120.415 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 57.93 Mbit/s
95th percentile per-packet one-way delay: 343.985 ms
Loss rate: 12.82%
```

Run 1: Report of Verus — Data Link

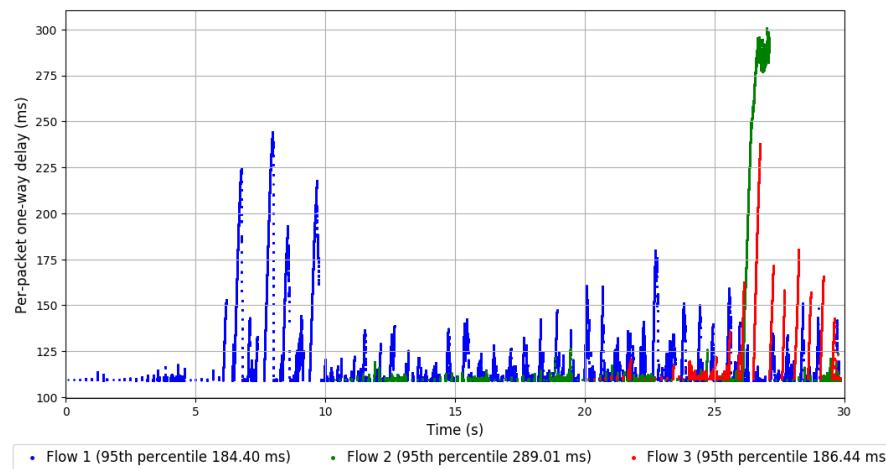
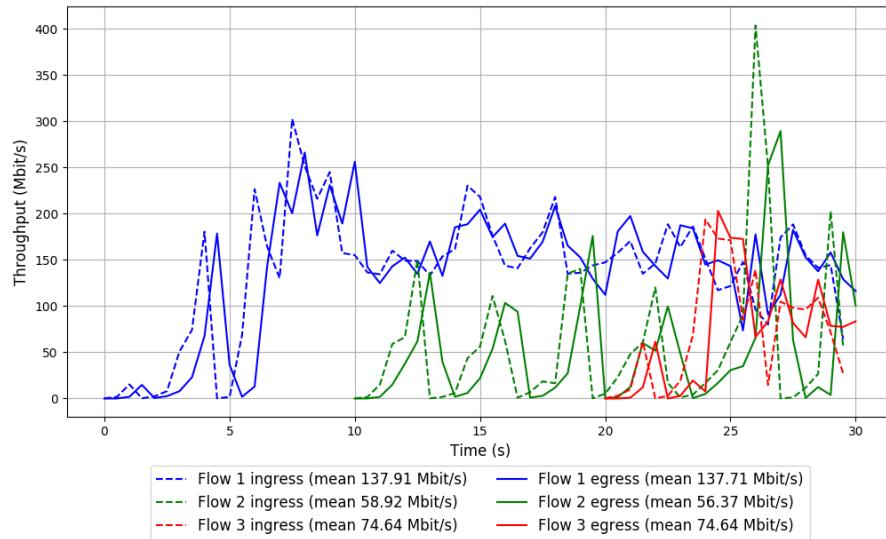


Run 2: Statistics of Verus

```
Start at: 2019-03-09 01:16:17
End at: 2019-03-09 01:16:47
Local clock offset: 0.019 ms
Remote clock offset: -0.129 ms

# Below is generated by plot.py at 2019-03-09 05:41:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 199.40 Mbit/s
95th percentile per-packet one-way delay: 221.859 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 137.71 Mbit/s
95th percentile per-packet one-way delay: 184.396 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 56.37 Mbit/s
95th percentile per-packet one-way delay: 289.008 ms
Loss rate: 4.33%
-- Flow 3:
Average throughput: 74.64 Mbit/s
95th percentile per-packet one-way delay: 186.440 ms
Loss rate: 0.01%
```

Run 2: Report of Verus — Data Link

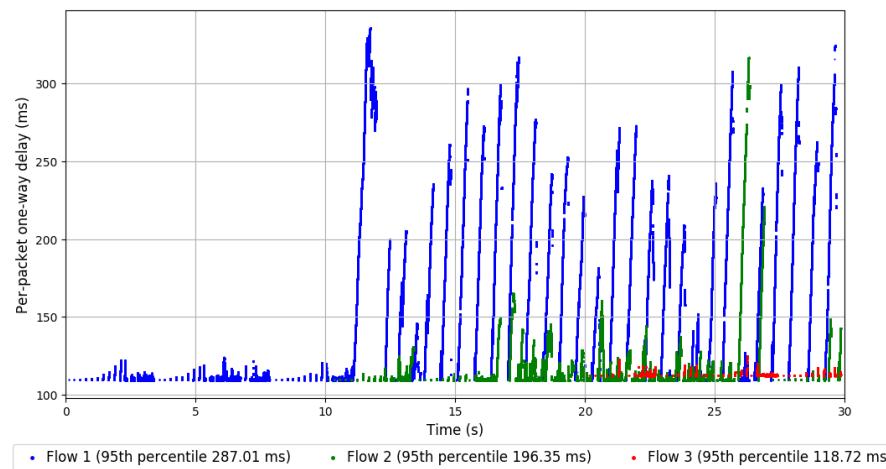
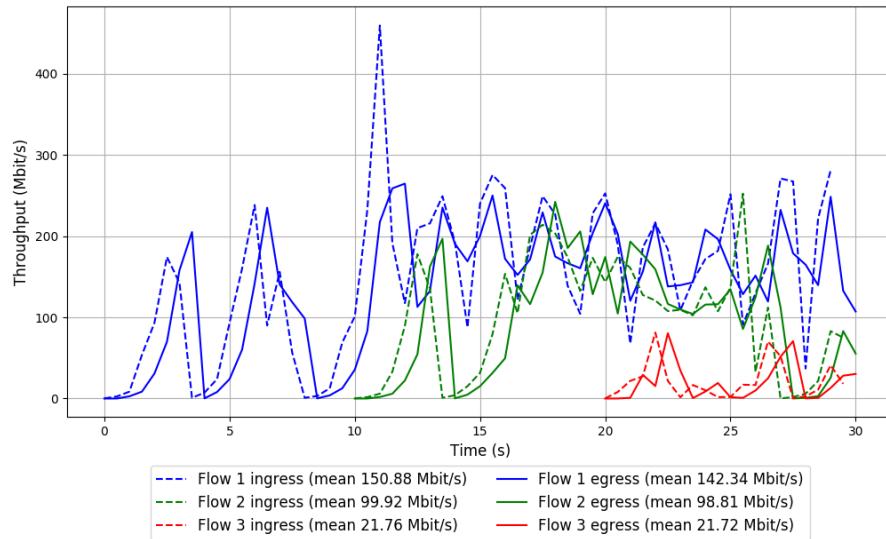


Run 3: Statistics of Verus

```
Start at: 2019-03-09 01:53:39
End at: 2019-03-09 01:54:09
Local clock offset: -0.262 ms
Remote clock offset: -0.143 ms

# Below is generated by plot.py at 2019-03-09 05:41:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 214.15 Mbit/s
95th percentile per-packet one-way delay: 280.476 ms
Loss rate: 3.89%
-- Flow 1:
Average throughput: 142.34 Mbit/s
95th percentile per-packet one-way delay: 287.007 ms
Loss rate: 5.30%
-- Flow 2:
Average throughput: 98.81 Mbit/s
95th percentile per-packet one-way delay: 196.355 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 21.72 Mbit/s
95th percentile per-packet one-way delay: 118.715 ms
Loss rate: 0.18%
```

Run 3: Report of Verus — Data Link

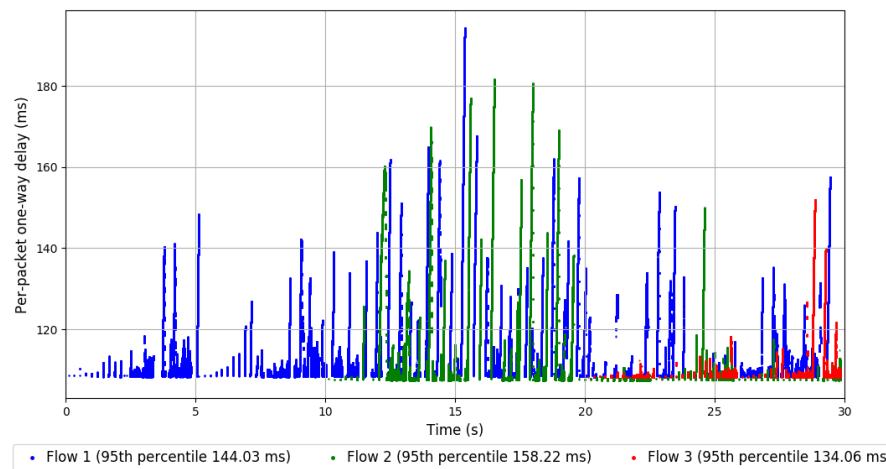
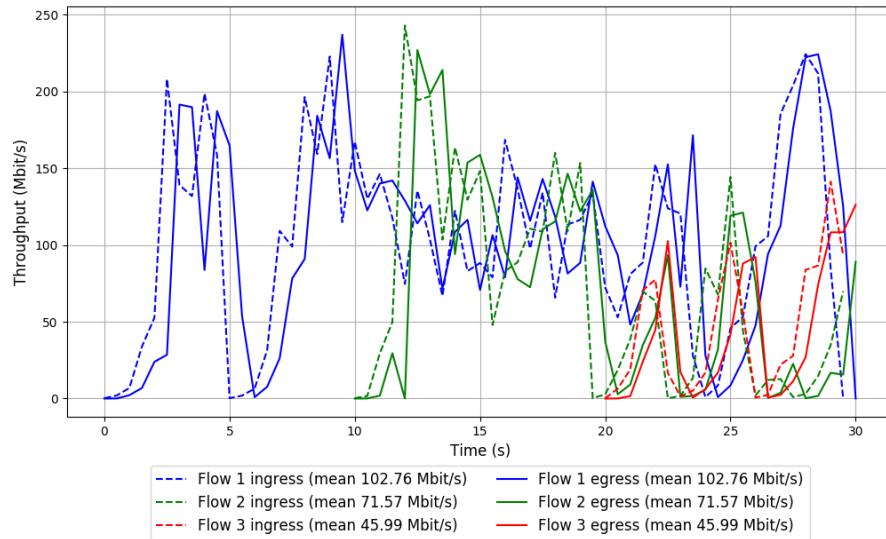


Run 4: Statistics of Verus

```
Start at: 2019-03-09 02:31:40
End at: 2019-03-09 02:32:10
Local clock offset: 0.612 ms
Remote clock offset: -0.11 ms

# Below is generated by plot.py at 2019-03-09 05:41:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 165.06 Mbit/s
95th percentile per-packet one-way delay: 148.947 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 102.76 Mbit/s
95th percentile per-packet one-way delay: 144.035 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 71.57 Mbit/s
95th percentile per-packet one-way delay: 158.223 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 45.99 Mbit/s
95th percentile per-packet one-way delay: 134.058 ms
Loss rate: 0.00%
```

Run 4: Report of Verus — Data Link

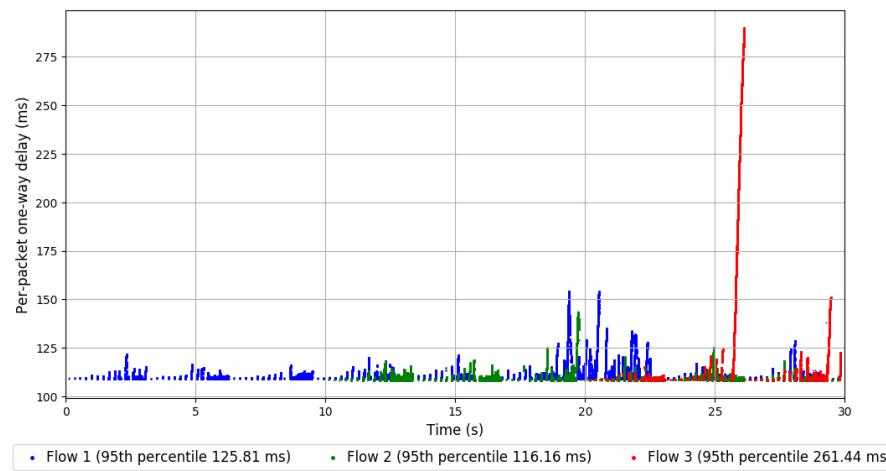
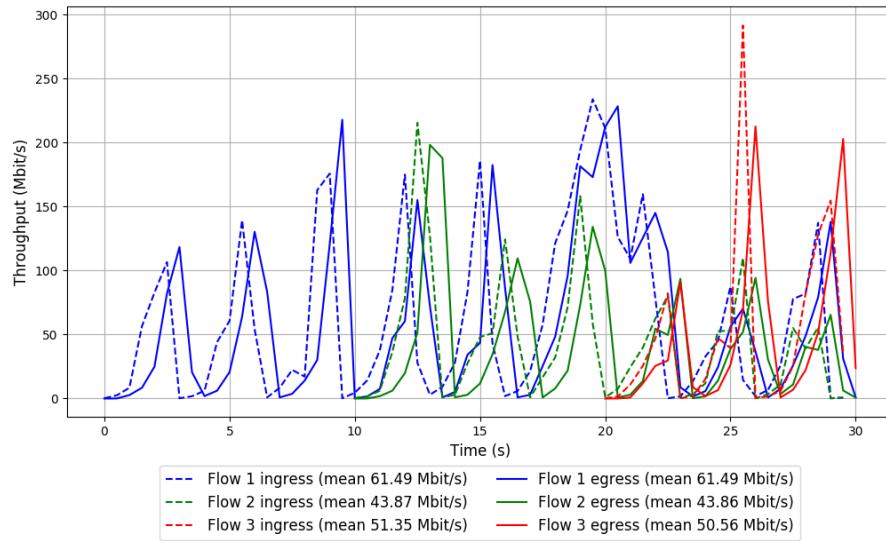


Run 5: Statistics of Verus

```
Start at: 2019-03-09 03:08:54
End at: 2019-03-09 03:09:24
Local clock offset: -0.141 ms
Remote clock offset: -0.079 ms

# Below is generated by plot.py at 2019-03-09 05:41:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 106.74 Mbit/s
95th percentile per-packet one-way delay: 139.487 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 61.49 Mbit/s
95th percentile per-packet one-way delay: 125.809 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 43.86 Mbit/s
95th percentile per-packet one-way delay: 116.160 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 50.56 Mbit/s
95th percentile per-packet one-way delay: 261.440 ms
Loss rate: 1.49%
```

Run 5: Report of Verus — Data Link

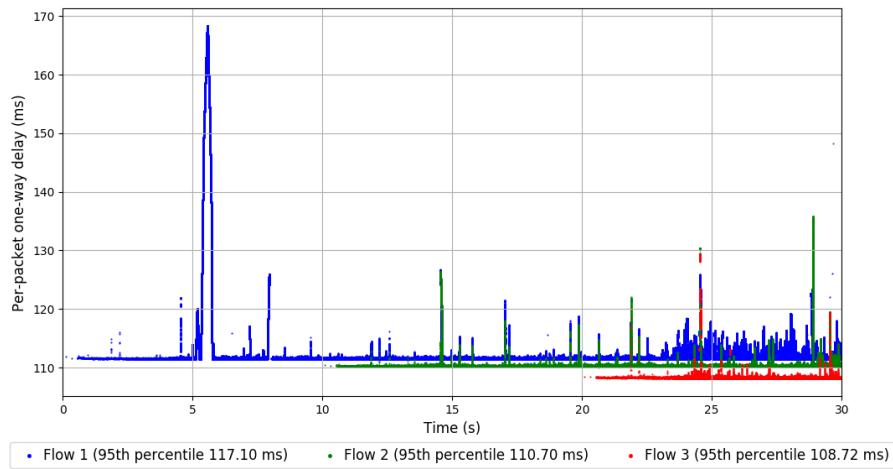
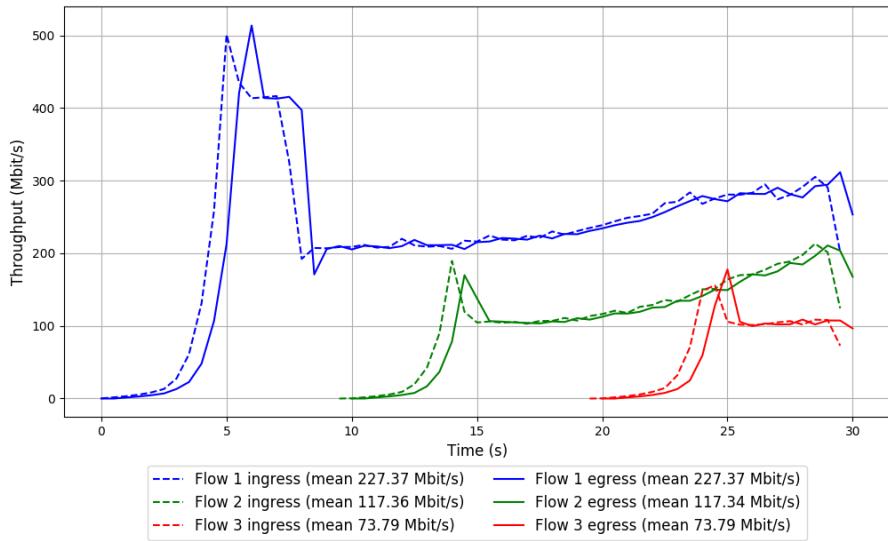


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-03-09 00:26:54
End at: 2019-03-09 00:27:24
Local clock offset: -0.153 ms
Remote clock offset: -0.013 ms

# Below is generated by plot.py at 2019-03-09 05:42:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 329.91 Mbit/s
95th percentile per-packet one-way delay: 115.022 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 227.37 Mbit/s
95th percentile per-packet one-way delay: 117.101 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 117.34 Mbit/s
95th percentile per-packet one-way delay: 110.696 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 73.79 Mbit/s
95th percentile per-packet one-way delay: 108.725 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Vivace — Data Link

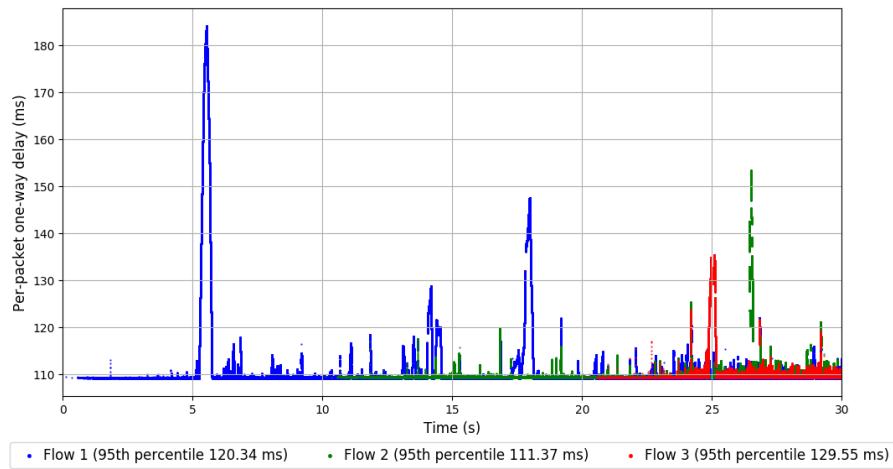
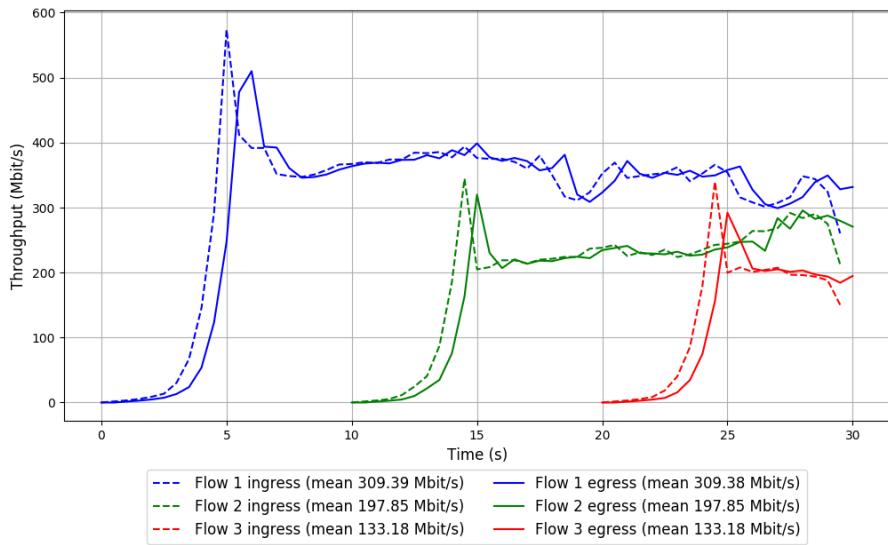


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-03-09 01:03:40
End at: 2019-03-09 01:04:10
Local clock offset: -0.079 ms
Remote clock offset: -0.12 ms

# Below is generated by plot.py at 2019-03-09 05:44:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 484.90 Mbit/s
95th percentile per-packet one-way delay: 117.638 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 309.38 Mbit/s
95th percentile per-packet one-way delay: 120.339 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 197.85 Mbit/s
95th percentile per-packet one-way delay: 111.367 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 133.18 Mbit/s
95th percentile per-packet one-way delay: 129.550 ms
Loss rate: 0.00%
```

Run 2: Report of PCC-Vivace — Data Link

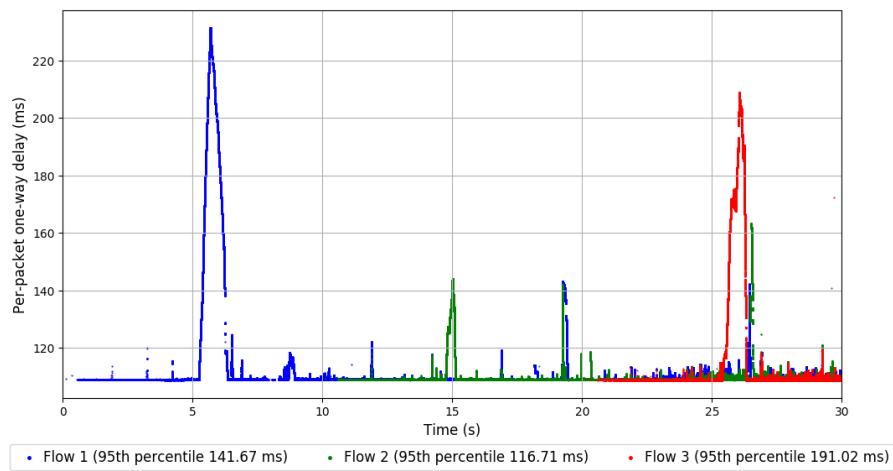
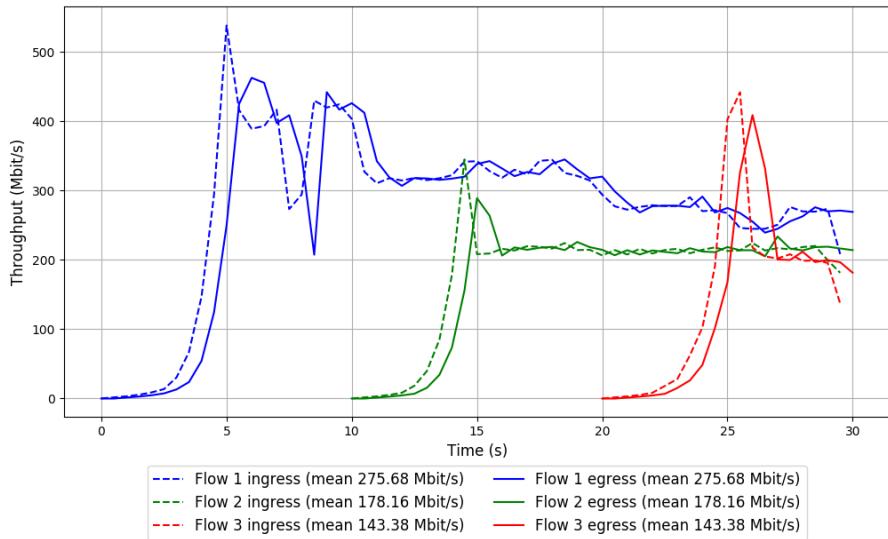


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-03-09 01:41:00
End at: 2019-03-09 01:41:30
Local clock offset: -0.324 ms
Remote clock offset: 0.284 ms

# Below is generated by plot.py at 2019-03-09 05:44:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 441.43 Mbit/s
95th percentile per-packet one-way delay: 145.233 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 275.68 Mbit/s
95th percentile per-packet one-way delay: 141.670 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 178.16 Mbit/s
95th percentile per-packet one-way delay: 116.706 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 143.38 Mbit/s
95th percentile per-packet one-way delay: 191.016 ms
Loss rate: 0.00%
```

Run 3: Report of PCC-Vivace — Data Link

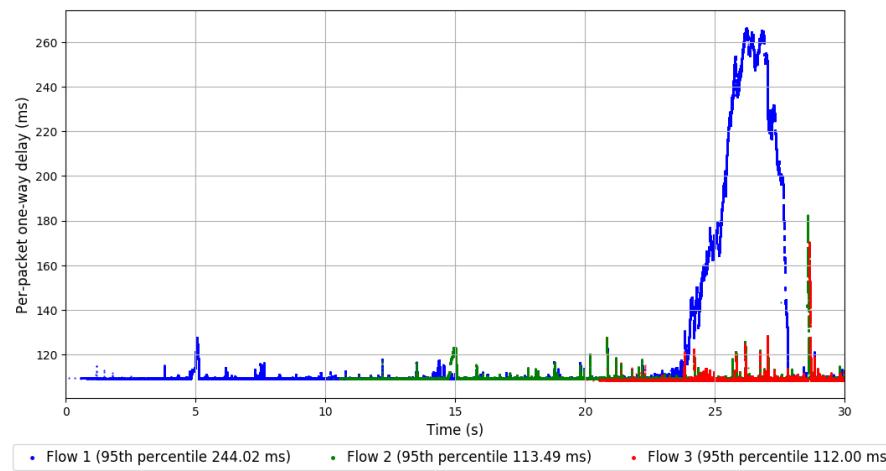
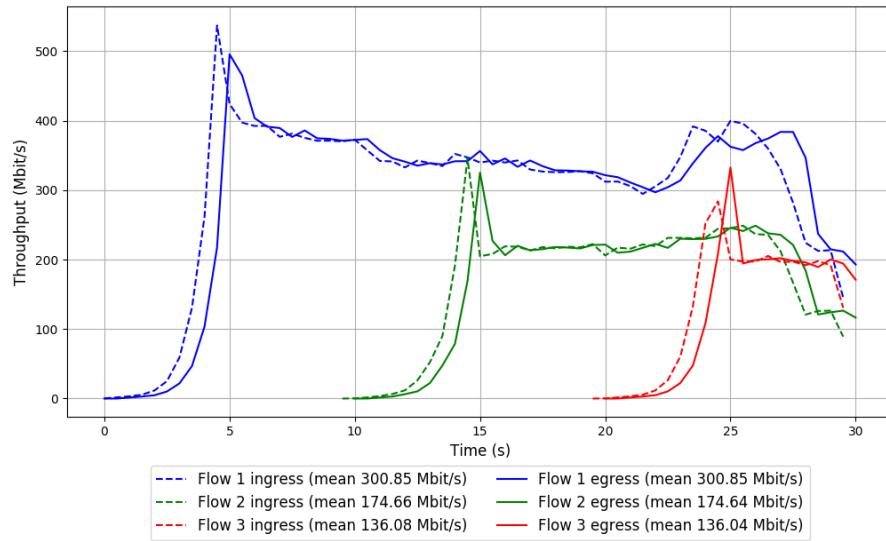


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-03-09 02:18:43
End at: 2019-03-09 02:19:13
Local clock offset: 0.05 ms
Remote clock offset: 0.244 ms

# Below is generated by plot.py at 2019-03-09 05:44:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 462.10 Mbit/s
95th percentile per-packet one-way delay: 217.369 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 300.85 Mbit/s
95th percentile per-packet one-way delay: 244.016 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 174.64 Mbit/s
95th percentile per-packet one-way delay: 113.492 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 136.04 Mbit/s
95th percentile per-packet one-way delay: 112.000 ms
Loss rate: 0.00%
```

Run 4: Report of PCC-Vivace — Data Link

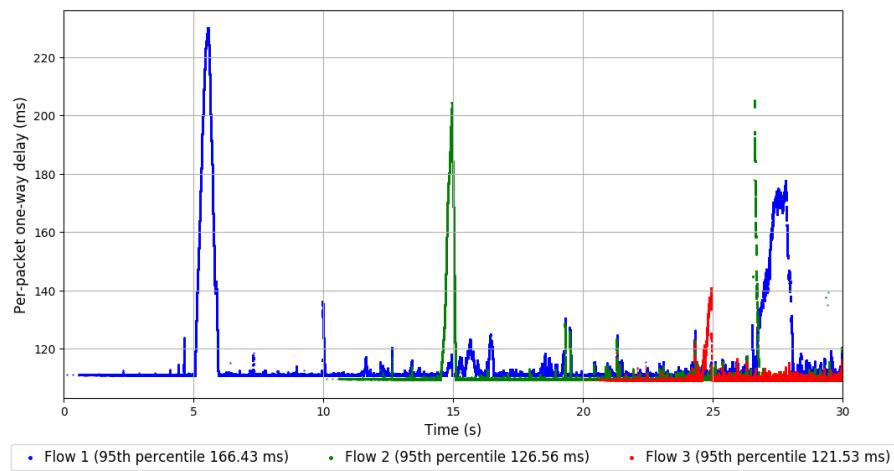
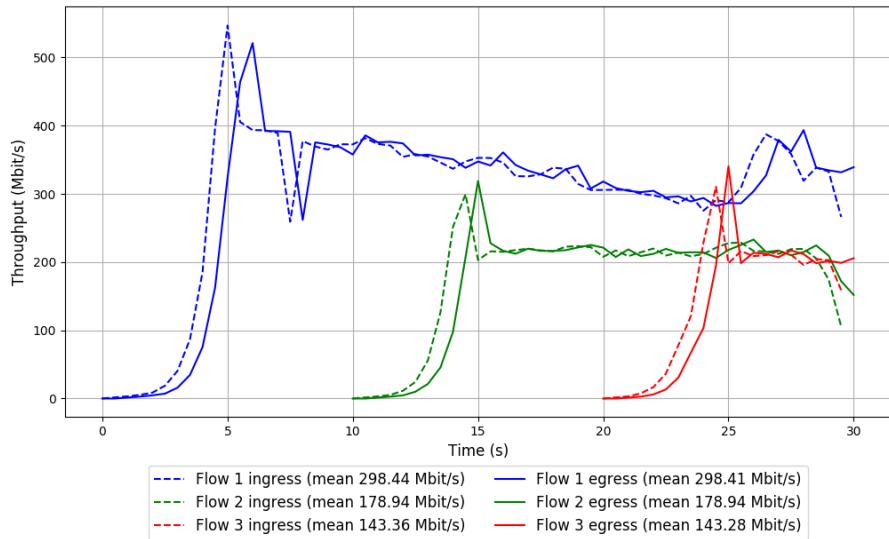


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-03-09 02:56:22
End at: 2019-03-09 02:56:52
Local clock offset: -0.224 ms
Remote clock offset: -0.057 ms

# Below is generated by plot.py at 2019-03-09 05:44:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 464.62 Mbit/s
95th percentile per-packet one-way delay: 149.954 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 298.41 Mbit/s
95th percentile per-packet one-way delay: 166.431 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 178.94 Mbit/s
95th percentile per-packet one-way delay: 126.555 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 143.28 Mbit/s
95th percentile per-packet one-way delay: 121.526 ms
Loss rate: 0.05%
```

Run 5: Report of PCC-Vivace — Data Link

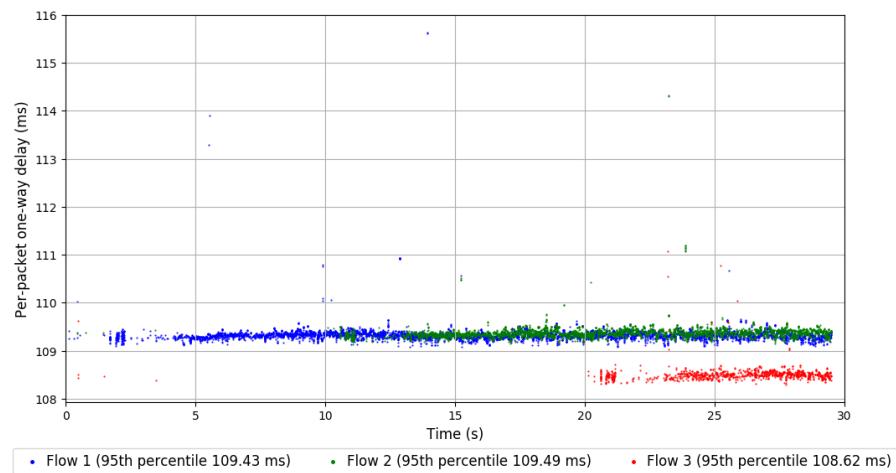
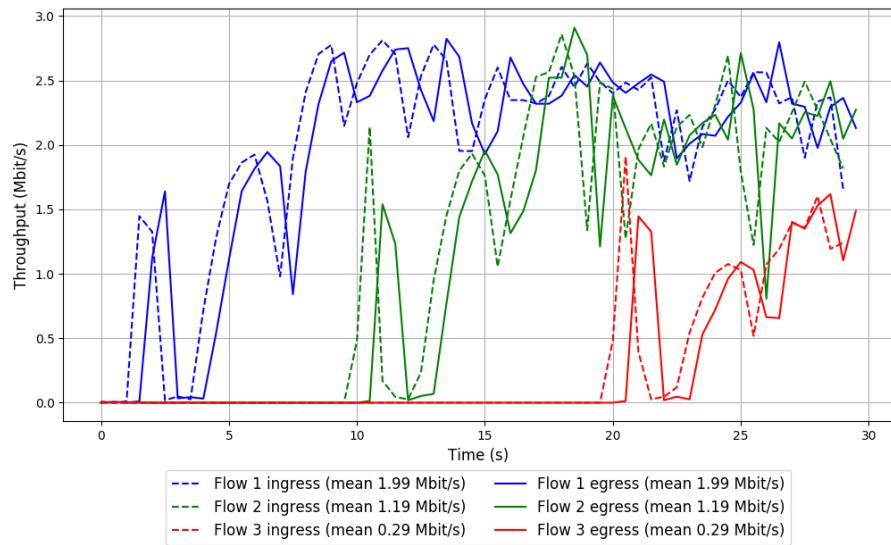


```
Run 1: Statistics of WebRTC media

Start at: 2019-03-09 00:31:40
End at: 2019-03-09 00:32:10
Local clock offset: -0.141 ms
Remote clock offset: -0.002 ms

# Below is generated by plot.py at 2019-03-09 05:44:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.46 Mbit/s
95th percentile per-packet one-way delay: 109.461 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.99 Mbit/s
95th percentile per-packet one-way delay: 109.427 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.19 Mbit/s
95th percentile per-packet one-way delay: 109.493 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 108.624 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

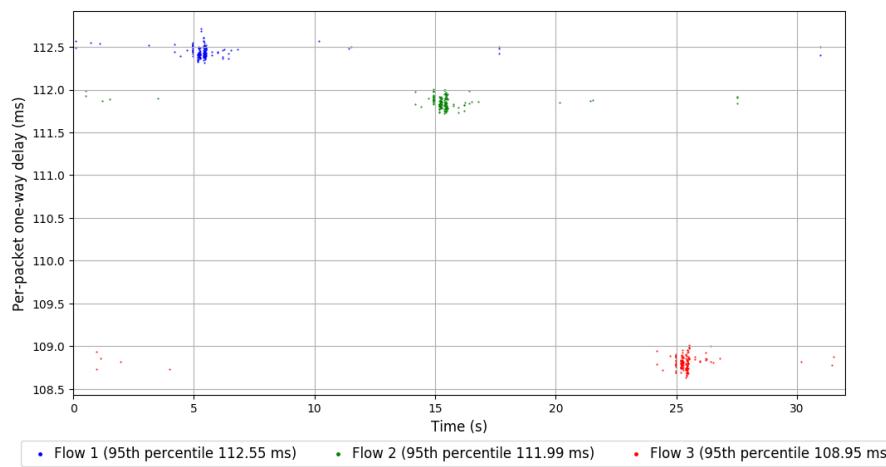
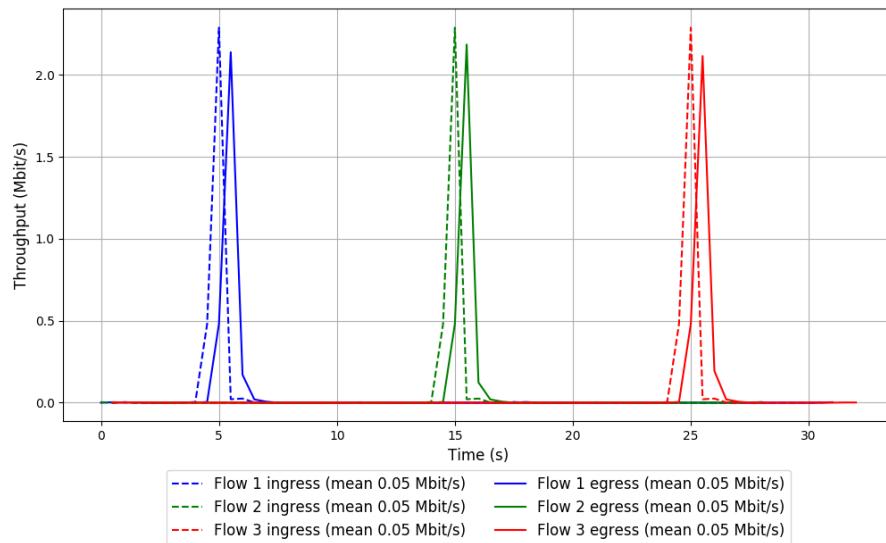


Run 2: Statistics of WebRTC media

```
Start at: 2019-03-09 01:09:11
End at: 2019-03-09 01:09:41
Local clock offset: -0.253 ms
Remote clock offset: -0.104 ms

# Below is generated by plot.py at 2019-03-09 05:44:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 112.517 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 112.554 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 111.986 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 108.953 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

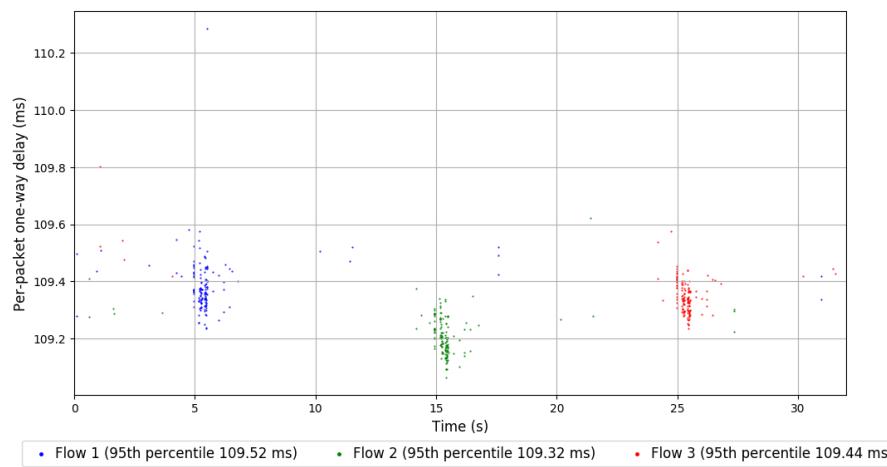
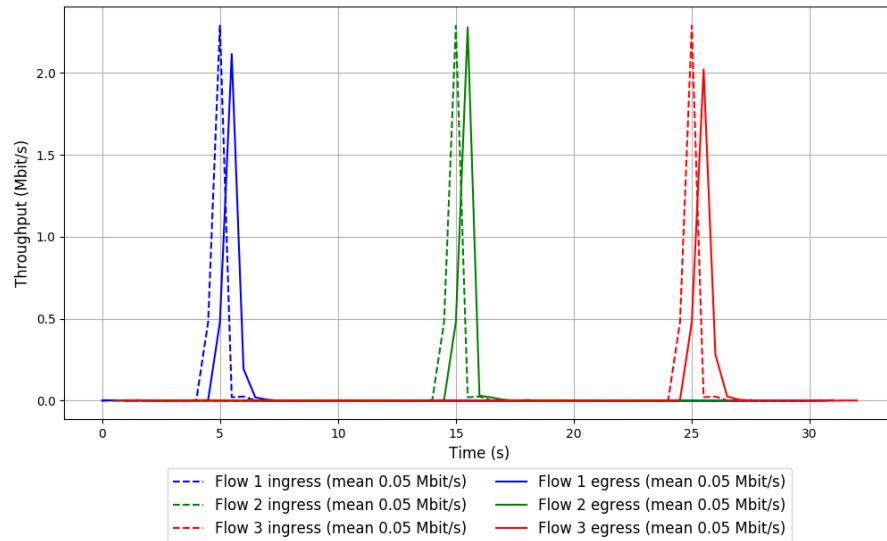


Run 3: Statistics of WebRTC media

```
Start at: 2019-03-09 01:46:28
End at: 2019-03-09 01:46:58
Local clock offset: -0.098 ms
Remote clock offset: -0.159 ms

# Below is generated by plot.py at 2019-03-09 05:44:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 109.483 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 109.517 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 109.324 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 109.444 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

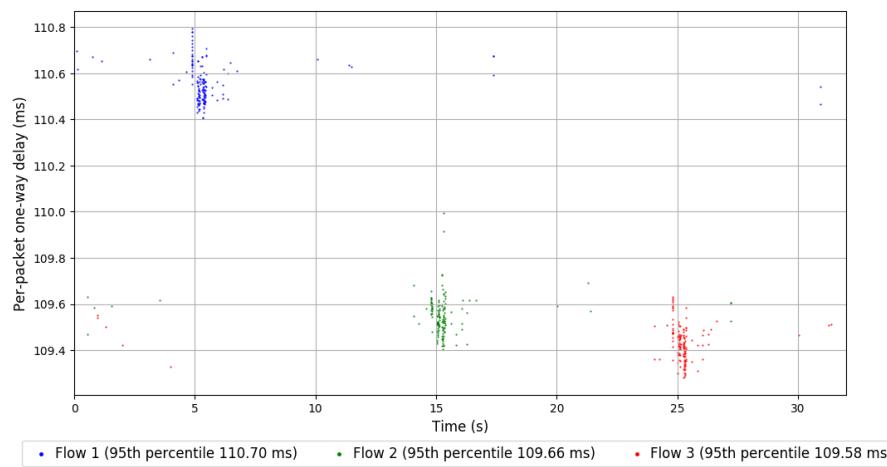
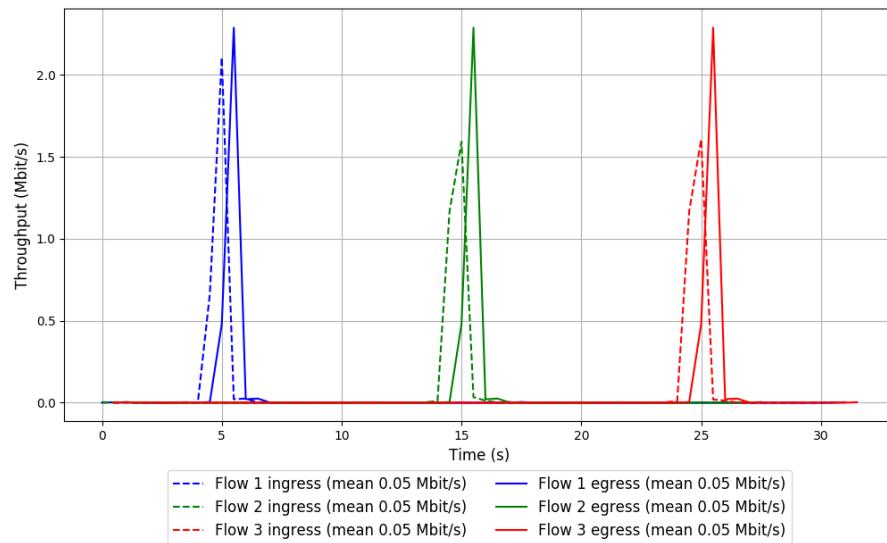


Run 4: Statistics of WebRTC media

```
Start at: 2019-03-09 02:24:31
End at: 2019-03-09 02:25:01
Local clock offset: -0.215 ms
Remote clock offset: -0.101 ms

# Below is generated by plot.py at 2019-03-09 05:44:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 110.661 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 110.701 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 109.663 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 109.583 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



```
Run 5: Statistics of WebRTC media

Start at: 2019-03-09 03:01:40
End at: 2019-03-09 03:02:10
Local clock offset: -0.121 ms
Remote clock offset: -0.094 ms

# Below is generated by plot.py at 2019-03-09 05:44:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 111.465 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 111.510 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 109.433 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 109.396 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

