

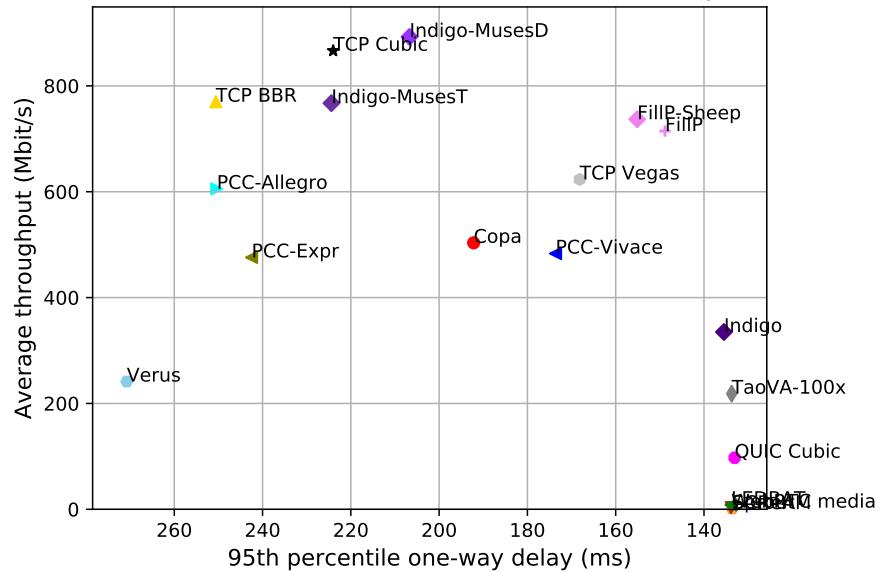
Pantheon Report

Generated at 2018-12-12 04:36:02 (UTC).
Data path: GCE Sydney on `ens4 (local)` → GCE London on `ens4 (remote)`.
Repeated the test of 19 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.

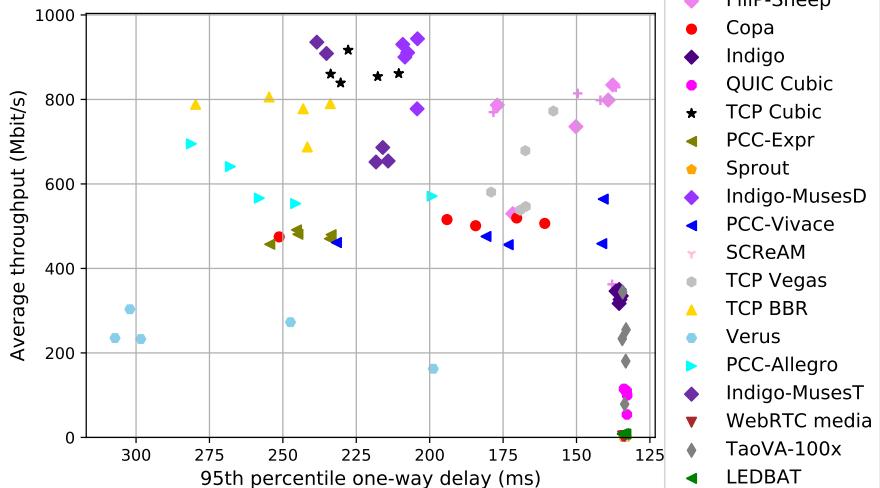
```
System info:  
Linux 4.15.0-1024-gcp  
net.core.default_qdisc = fq  
net.core.rmem_default = 16777216  
net.core.rmem_max = 536870912  
net.core.wmem_default = 16777216  
net.core.wmem_max = 536870912  
net.ipv4.tcp_rmem = 4096 16777216 536870912  
net.ipv4.tcp_wmem = 4096 16777216 536870912  
  
Git summary:  
branch: muses @ c654af0b7d59d4ef4b914cfac404e1fc2e96dc68  
third_party/fillp @ d6da1459332fce56963885d7eba17e6a32d4519  
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9  
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4  
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d  
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf  
third_party/muses @ 65ac1b19bbefed0c6349ae986009b4fa8643c40a  
third_party/muses-refactored @ 31f8f0ba8ef8b1da76c2bc0cd0a7850c33ff64fb  
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 Sydney 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 Sydney to GCE London, 5 runs of 30s each per scheme
3 flows with 10s interval between flows



4

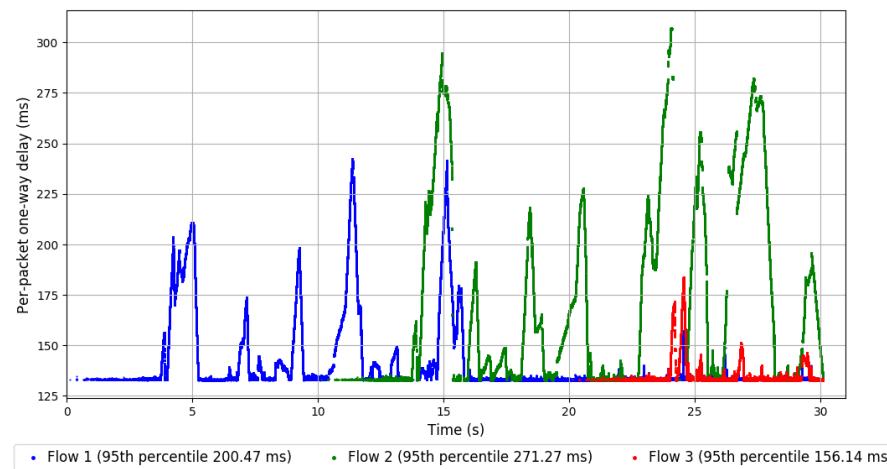
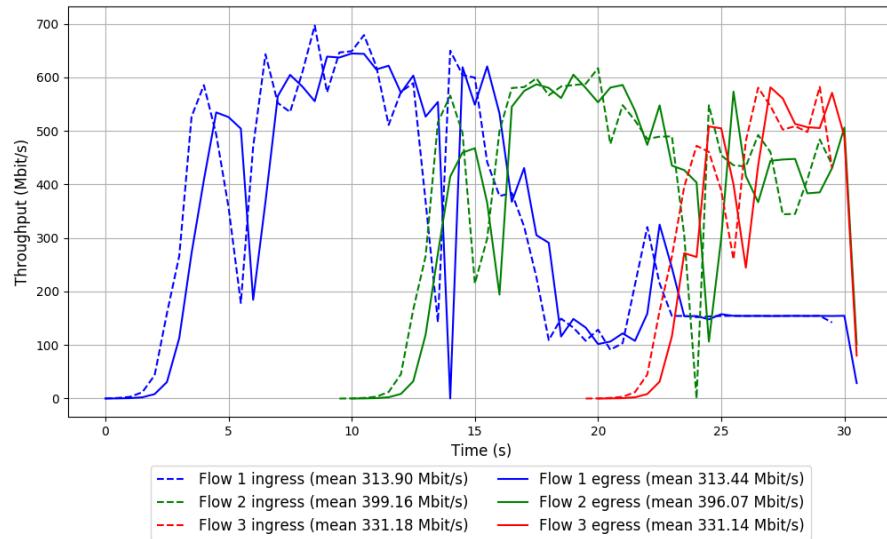
| scheme | # runs | mean avg tput (Mbit/s) | | | mean 95th-%ile delay (ms) | | | mean loss rate (%) | | |
|---------------|--------|------------------------|--------|--------|---------------------------|--------|--------|--------------------|--------|--------|
| | | flow 1 | flow 2 | flow 3 | flow 1 | flow 2 | flow 3 | flow 1 | flow 2 | flow 3 |
| TCP BBR | 5 | 415.30 | 388.00 | 289.59 | 225.11 | 259.54 | 213.09 | 1.10 | 2.59 | 0.99 |
| Copa | 5 | 276.27 | 239.84 | 202.75 | 164.39 | 195.56 | 195.17 | 0.01 | 0.07 | 0.26 |
| TCP Cubic | 5 | 491.07 | 431.51 | 264.47 | 219.15 | 223.95 | 171.99 | 0.24 | 0.31 | 0.35 |
| FillP | 5 | 421.75 | 330.77 | 220.39 | 154.43 | 137.65 | 135.52 | 0.24 | 0.01 | 0.00 |
| FillP-Sheep | 5 | 446.33 | 325.31 | 225.48 | 159.81 | 137.43 | 135.40 | 0.35 | 0.01 | 0.06 |
| Indigo | 5 | 177.24 | 165.65 | 151.46 | 134.99 | 135.80 | 138.66 | 0.00 | 0.00 | 0.00 |
| Indigo-MusesD | 5 | 493.87 | 449.27 | 314.62 | 202.67 | 211.48 | 212.20 | 0.34 | 0.47 | 0.33 |
| Indigo-MusesT | 5 | 474.45 | 319.68 | 288.53 | 226.99 | 193.71 | 205.65 | 1.35 | 0.39 | 0.38 |
| LEDBAT | 5 | 5.28 | 3.51 | 1.71 | 133.90 | 133.32 | 133.52 | 0.00 | 0.00 | 0.00 |
| PCC-Allegro | 5 | 329.25 | 303.24 | 226.39 | 250.90 | 219.05 | 247.75 | 5.29 | 3.12 | 2.66 |
| PCC-Expr | 5 | 301.59 | 180.89 | 163.75 | 243.47 | 185.04 | 207.31 | 4.78 | 0.59 | 1.69 |
| QUIC Cubic | 5 | 47.88 | 55.85 | 38.71 | 133.13 | 132.93 | 132.89 | 0.00 | 0.00 | 0.00 |
| SCReAM | 5 | 0.15 | 0.15 | 0.17 | 133.62 | 133.46 | 133.24 | 0.00 | 0.00 | 0.00 |
| Sprout | 5 | 0.67 | 0.65 | 0.58 | 133.24 | 133.62 | 133.30 | 0.00 | 0.00 | 0.00 |
| TaoVA-100x | 5 | 114.68 | 76.68 | 158.63 | 133.53 | 133.11 | 134.17 | 0.00 | 0.00 | 0.00 |
| TCP Vegas | 5 | 319.12 | 333.47 | 246.80 | 152.69 | 191.22 | 168.35 | 0.01 | 0.34 | 0.31 |
| Verus | 5 | 164.77 | 89.96 | 69.32 | 253.25 | 205.14 | 221.54 | 5.51 | 2.11 | 2.59 |
| PCC-Vivace | 5 | 298.73 | 209.35 | 137.17 | 179.47 | 143.30 | 168.04 | 0.34 | 0.00 | 0.12 |
| WebRTC media | 5 | 1.79 | 1.02 | 0.31 | 133.57 | 133.63 | 133.17 | 0.00 | 0.00 | 0.00 |

Run 1: Statistics of TCP BBR

```
Start at: 2018-12-11 23:37:47
End at: 2018-12-11 23:38:17
Local clock offset: -0.36 ms
Remote clock offset: -0.014 ms

# Below is generated by plot.py at 2018-12-12 02:39:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 687.59 Mbit/s
95th percentile per-packet one-way delay: 241.656 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 313.44 Mbit/s
95th percentile per-packet one-way delay: 200.466 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 396.07 Mbit/s
95th percentile per-packet one-way delay: 271.266 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 331.14 Mbit/s
95th percentile per-packet one-way delay: 156.139 ms
Loss rate: 0.02%
```

Run 1: Report of TCP BBR — Data Link

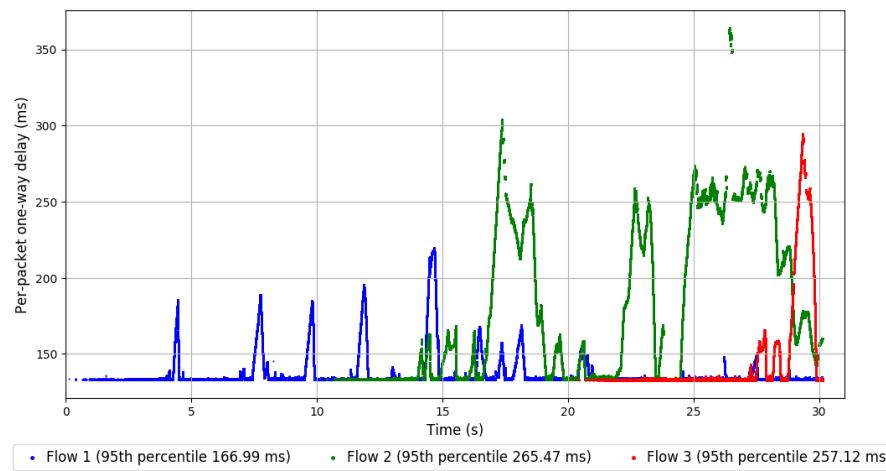
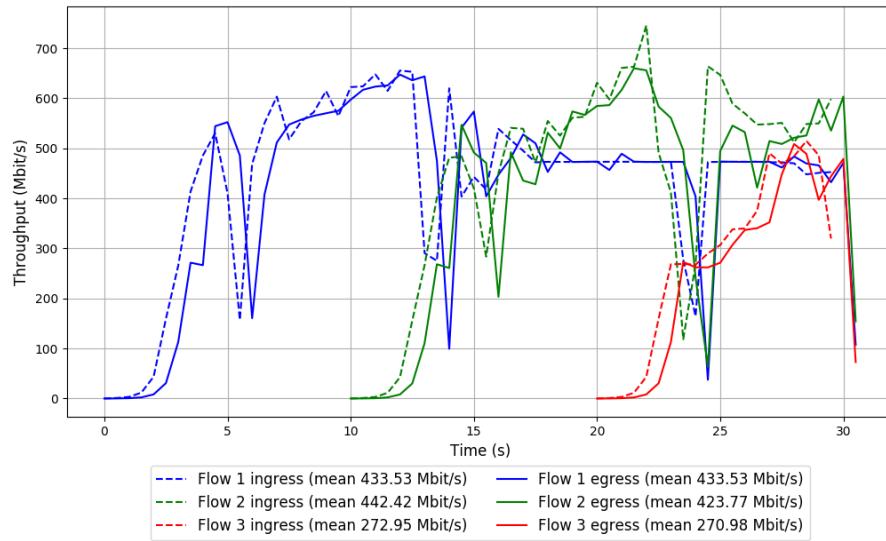


Run 2: Statistics of TCP BBR

```
Start at: 2018-12-12 00:13:54
End at: 2018-12-12 00:14:24
Local clock offset: -0.651 ms
Remote clock offset: -0.127 ms

# Below is generated by plot.py at 2018-12-12 02:42:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 805.83 Mbit/s
95th percentile per-packet one-way delay: 254.679 ms
Loss rate: 1.60%
-- Flow 1:
Average throughput: 433.53 Mbit/s
95th percentile per-packet one-way delay: 166.994 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 423.77 Mbit/s
95th percentile per-packet one-way delay: 265.467 ms
Loss rate: 4.21%
-- Flow 3:
Average throughput: 270.98 Mbit/s
95th percentile per-packet one-way delay: 257.122 ms
Loss rate: 0.72%
```

Run 2: Report of TCP BBR — Data Link

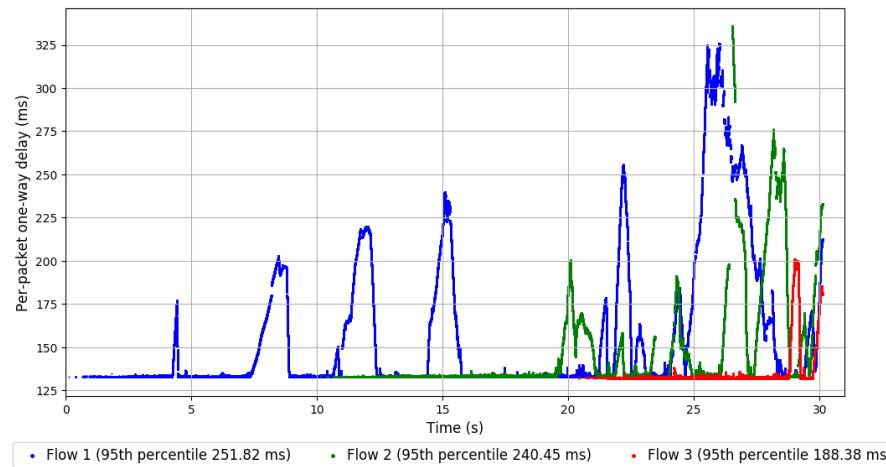
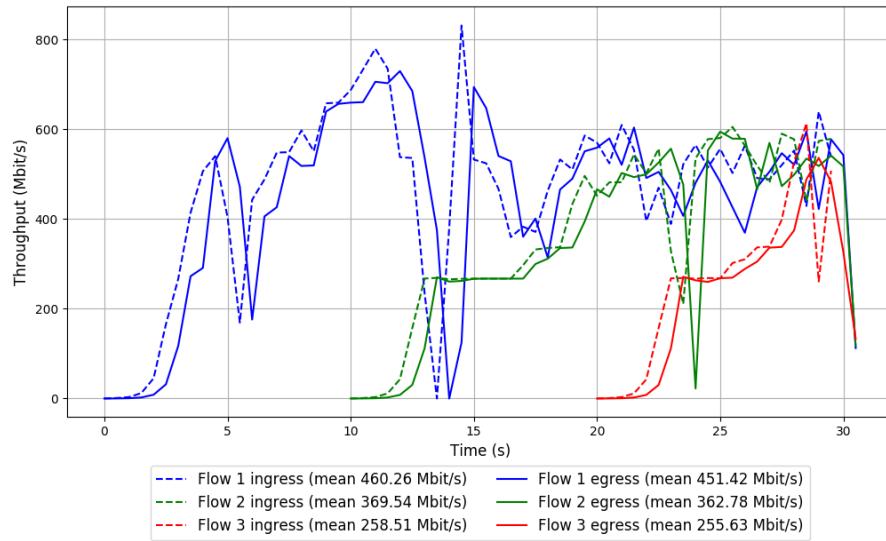


Run 3: Statistics of TCP BBR

```
Start at: 2018-12-12 00:50:25
End at: 2018-12-12 00:50:55
Local clock offset: -0.045 ms
Remote clock offset: -0.299 ms

# Below is generated by plot.py at 2018-12-12 02:42:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 778.03 Mbit/s
95th percentile per-packet one-way delay: 243.079 ms
Loss rate: 1.80%
-- Flow 1:
Average throughput: 451.42 Mbit/s
95th percentile per-packet one-way delay: 251.822 ms
Loss rate: 1.92%
-- Flow 2:
Average throughput: 362.78 Mbit/s
95th percentile per-packet one-way delay: 240.451 ms
Loss rate: 1.82%
-- Flow 3:
Average throughput: 255.63 Mbit/s
95th percentile per-packet one-way delay: 188.381 ms
Loss rate: 1.11%
```

Run 3: Report of TCP BBR — Data Link

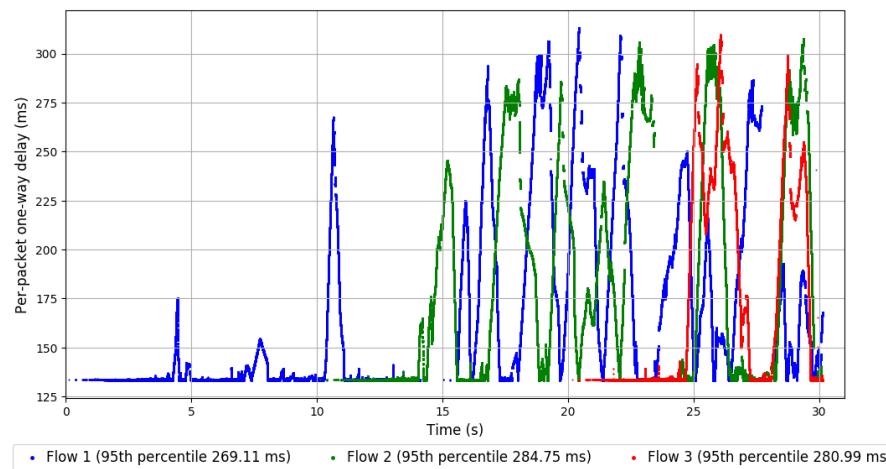
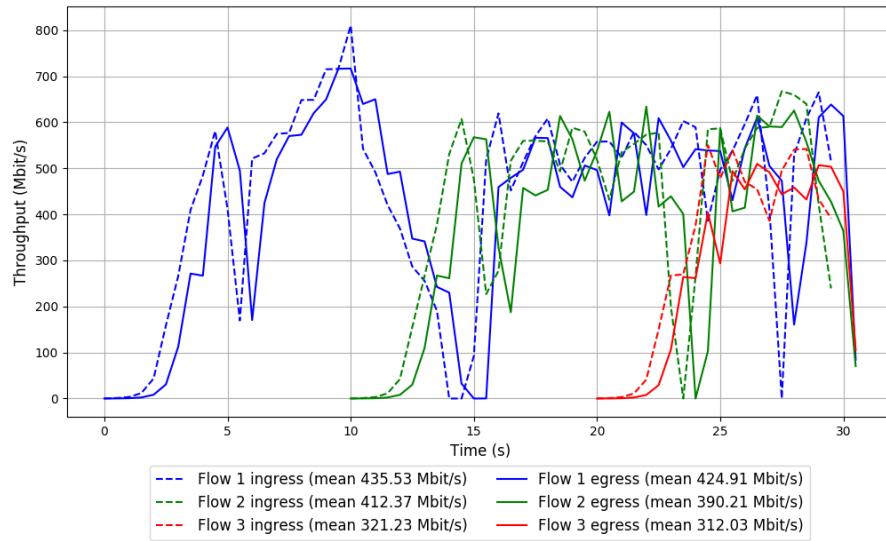


Run 4: Statistics of TCP BBR

```
Start at: 2018-12-12 01:26:13
End at: 2018-12-12 01:26:43
Local clock offset: -0.159 ms
Remote clock offset: -0.084 ms

# Below is generated by plot.py at 2018-12-12 02:42:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 788.51 Mbit/s
95th percentile per-packet one-way delay: 279.708 ms
Loss rate: 3.48%
-- Flow 1:
Average throughput: 424.91 Mbit/s
95th percentile per-packet one-way delay: 269.112 ms
Loss rate: 2.44%
-- Flow 2:
Average throughput: 390.21 Mbit/s
95th percentile per-packet one-way delay: 284.748 ms
Loss rate: 5.38%
-- Flow 3:
Average throughput: 312.03 Mbit/s
95th percentile per-packet one-way delay: 280.990 ms
Loss rate: 2.86%
```

Run 4: Report of TCP BBR — Data Link

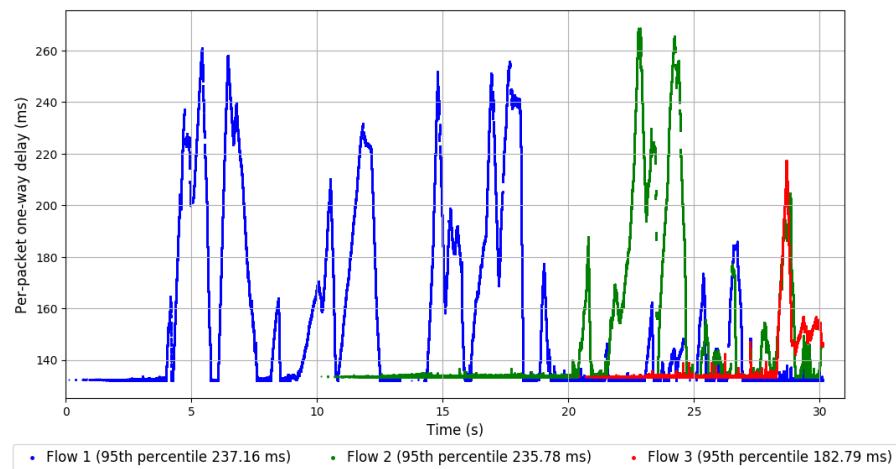
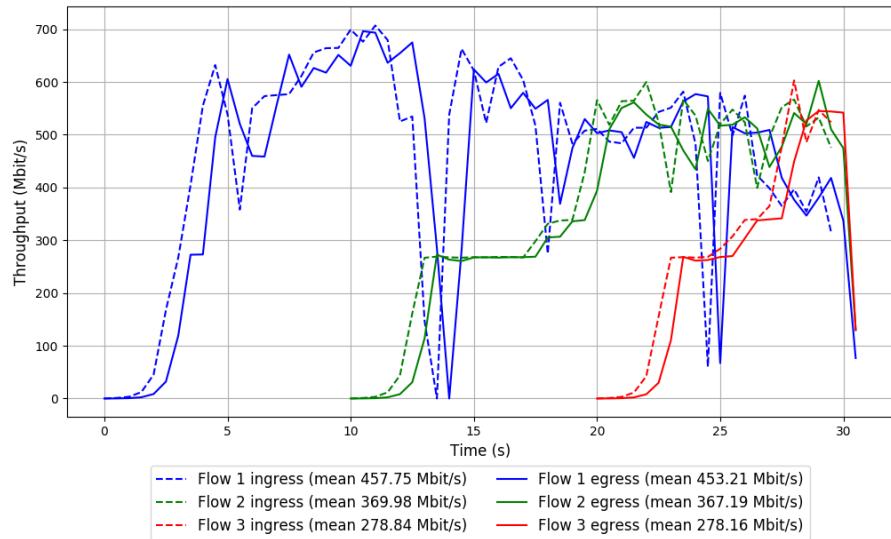


Run 5: Statistics of TCP BBR

```
Start at: 2018-12-12 02:02:50
End at: 2018-12-12 02:03:20
Local clock offset: -0.049 ms
Remote clock offset: -0.052 ms

# Below is generated by plot.py at 2018-12-12 02:42:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 790.18 Mbit/s
95th percentile per-packet one-way delay: 233.841 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 453.21 Mbit/s
95th percentile per-packet one-way delay: 237.162 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 367.19 Mbit/s
95th percentile per-packet one-way delay: 235.780 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 278.16 Mbit/s
95th percentile per-packet one-way delay: 182.795 ms
Loss rate: 0.24%
```

Run 5: Report of TCP BBR — Data Link

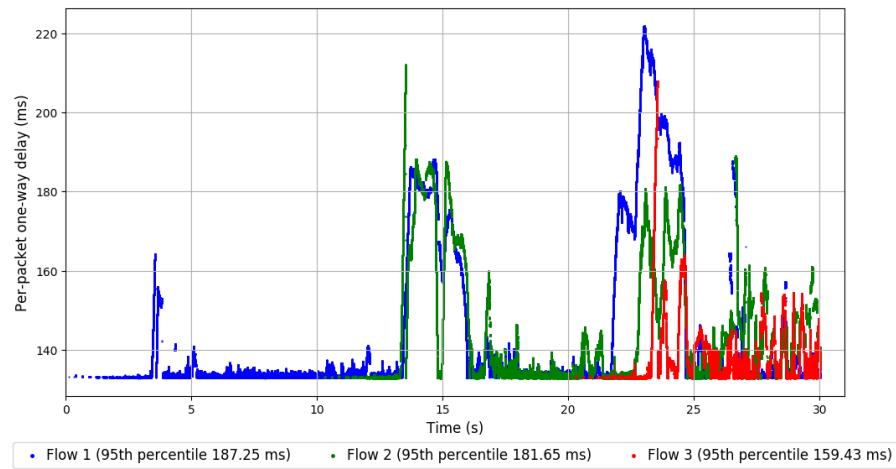
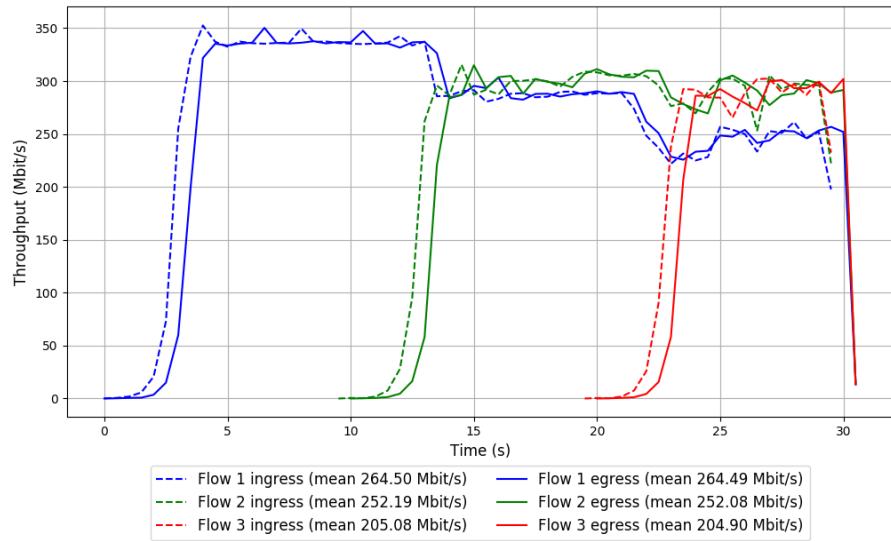


Run 1: Statistics of Copa

```
Start at: 2018-12-11 23:29:15
End at: 2018-12-11 23:29:45
Local clock offset: -0.552 ms
Remote clock offset: 0.035 ms

# Below is generated by plot.py at 2018-12-12 02:45:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 501.13 Mbit/s
95th percentile per-packet one-way delay: 184.357 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 264.49 Mbit/s
95th percentile per-packet one-way delay: 187.250 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 252.08 Mbit/s
95th percentile per-packet one-way delay: 181.647 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 204.90 Mbit/s
95th percentile per-packet one-way delay: 159.428 ms
Loss rate: 0.07%
```

Run 1: Report of Copa — Data Link

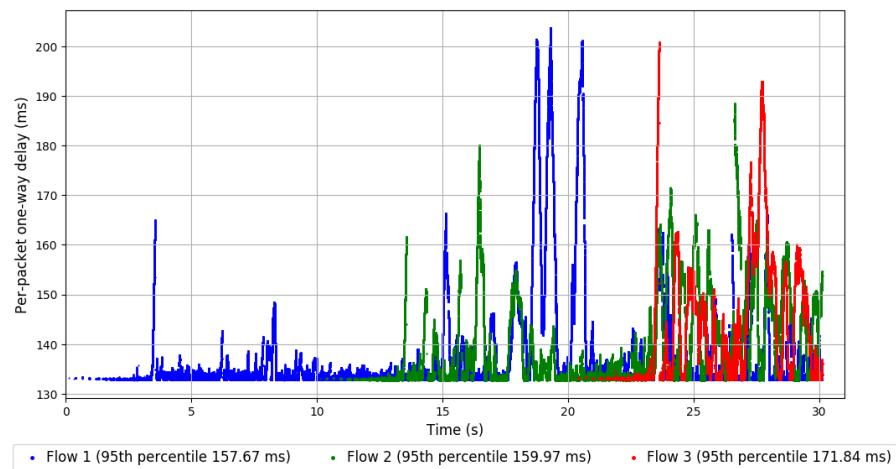
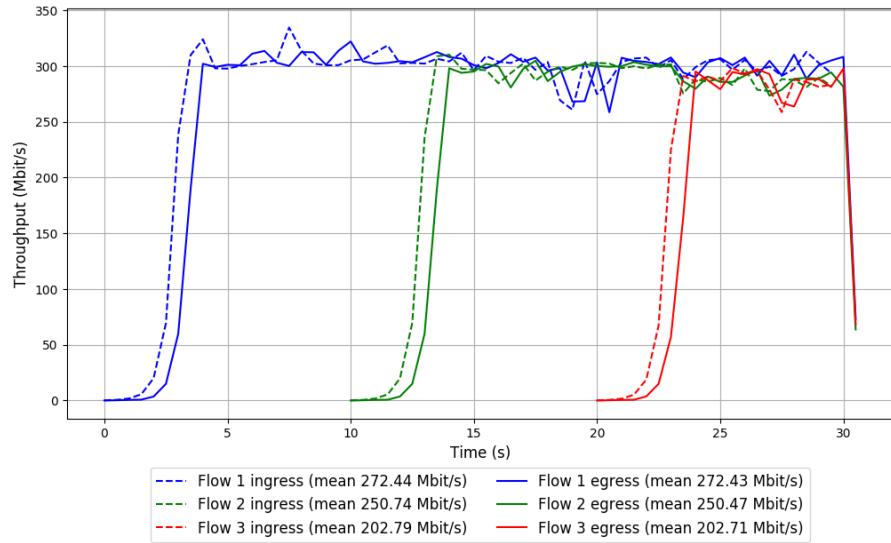


Run 2: Statistics of Copa

```
Start at: 2018-12-12 00:05:11
End at: 2018-12-12 00:05:41
Local clock offset: -0.629 ms
Remote clock offset: -0.069 ms

# Below is generated by plot.py at 2018-12-12 02:45:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 506.57 Mbit/s
95th percentile per-packet one-way delay: 160.810 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 272.43 Mbit/s
95th percentile per-packet one-way delay: 157.667 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 250.47 Mbit/s
95th percentile per-packet one-way delay: 159.972 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 202.71 Mbit/s
95th percentile per-packet one-way delay: 171.838 ms
Loss rate: 0.03%
```

Run 2: Report of Copa — Data Link

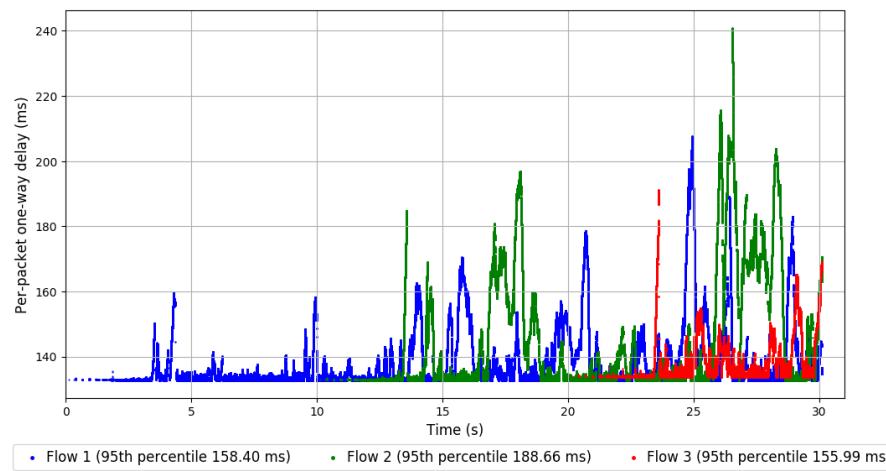
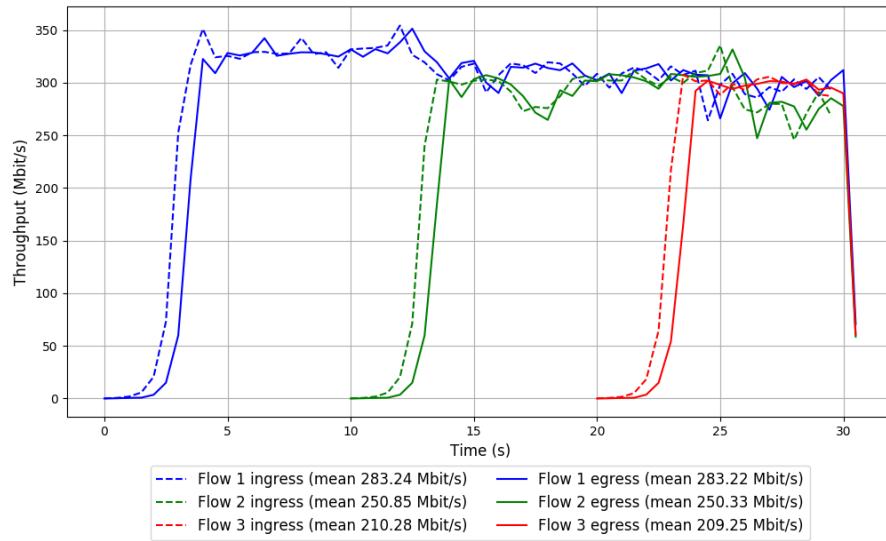


Run 3: Statistics of Copa

```
Start at: 2018-12-12 00:41:55
End at: 2018-12-12 00:42:25
Local clock offset: -0.151 ms
Remote clock offset: 0.101 ms

# Below is generated by plot.py at 2018-12-12 02:45:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 519.43 Mbit/s
95th percentile per-packet one-way delay: 170.367 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 283.22 Mbit/s
95th percentile per-packet one-way delay: 158.397 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 250.33 Mbit/s
95th percentile per-packet one-way delay: 188.662 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 209.25 Mbit/s
95th percentile per-packet one-way delay: 155.992 ms
Loss rate: 0.48%
```

Run 3: Report of Copa — Data Link

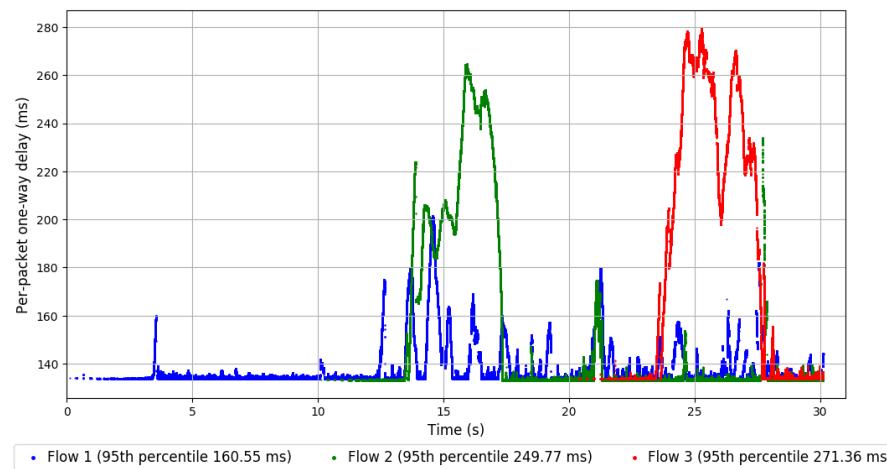
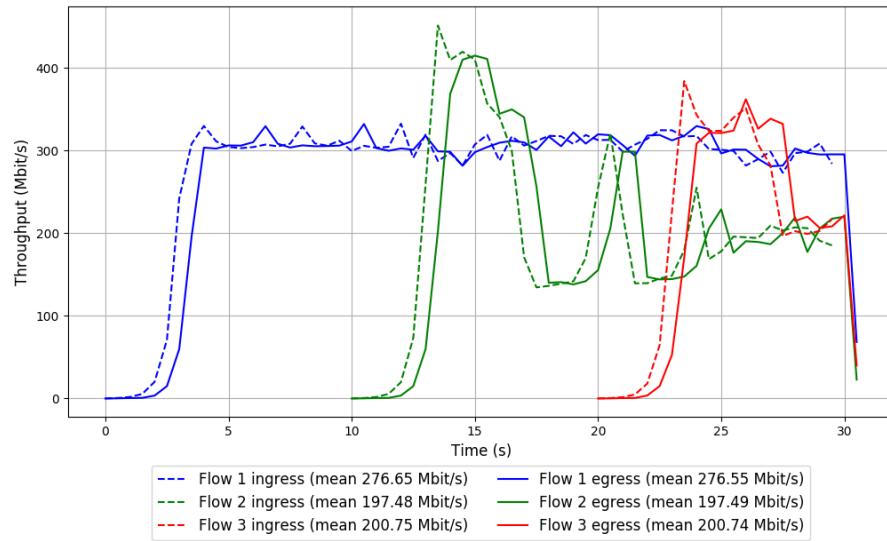


Run 4: Statistics of Copa

```
Start at: 2018-12-12 01:17:35
End at: 2018-12-12 01:18:05
Local clock offset: -0.367 ms
Remote clock offset: -0.075 ms

# Below is generated by plot.py at 2018-12-12 02:56:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 474.67 Mbit/s
95th percentile per-packet one-way delay: 251.253 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 276.55 Mbit/s
95th percentile per-packet one-way delay: 160.549 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 197.49 Mbit/s
95th percentile per-packet one-way delay: 249.771 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 200.74 Mbit/s
95th percentile per-packet one-way delay: 271.358 ms
Loss rate: 0.00%
```

Run 4: Report of Copa — Data Link

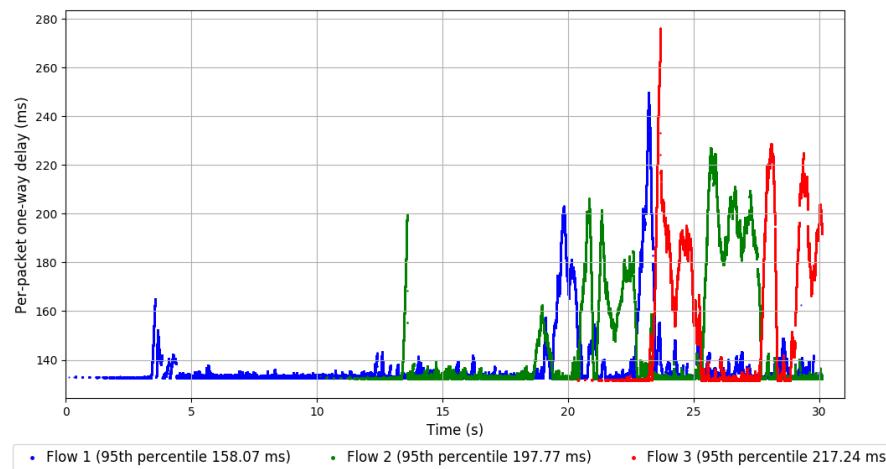
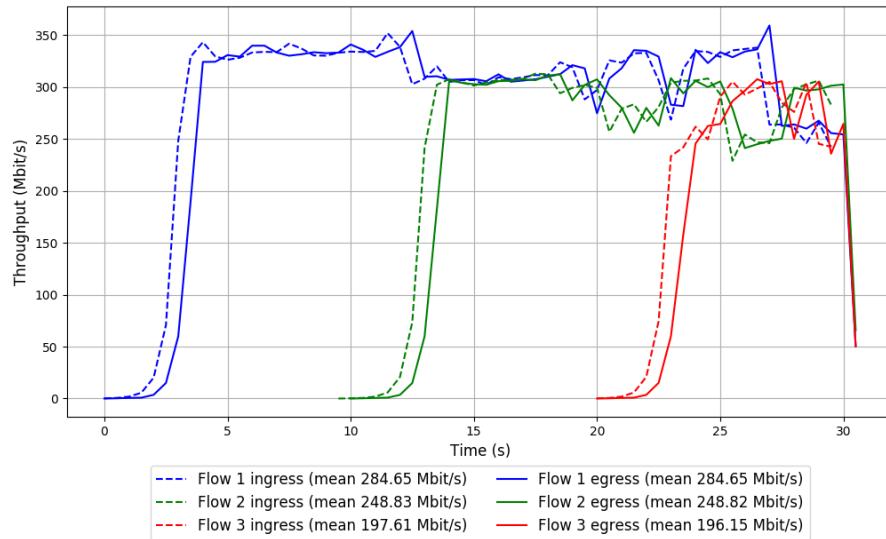


Run 5: Statistics of Copa

```
Start at: 2018-12-12 01:53:52
End at: 2018-12-12 01:54:22
Local clock offset: 0.32 ms
Remote clock offset: -0.091 ms

# Below is generated by plot.py at 2018-12-12 03:00:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 515.66 Mbit/s
95th percentile per-packet one-way delay: 194.111 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 284.65 Mbit/s
95th percentile per-packet one-way delay: 158.075 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 248.82 Mbit/s
95th percentile per-packet one-way delay: 197.772 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 196.15 Mbit/s
95th percentile per-packet one-way delay: 217.243 ms
Loss rate: 0.71%
```

Run 5: Report of Copa — Data Link

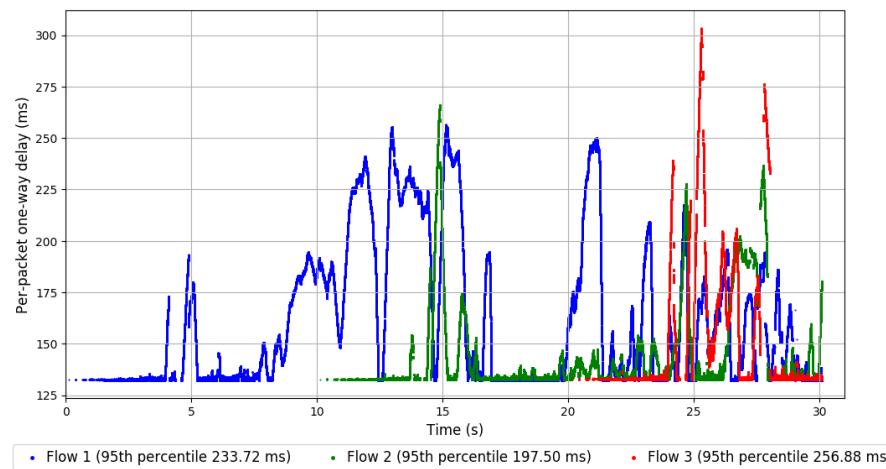
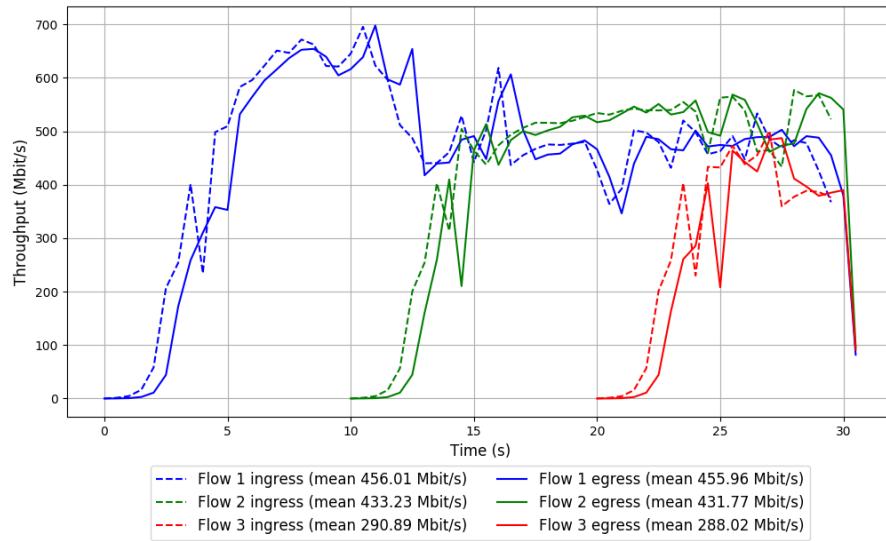


```
Run 1: Statistics of TCP Cubic

Start at: 2018-12-11 23:41:36
End at: 2018-12-11 23:42:06
Local clock offset: -0.309 ms
Remote clock offset: 0.014 ms

# Below is generated by plot.py at 2018-12-12 03:00:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 839.22 Mbit/s
95th percentile per-packet one-way delay: 230.336 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 455.96 Mbit/s
95th percentile per-packet one-way delay: 233.716 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 431.77 Mbit/s
95th percentile per-packet one-way delay: 197.505 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 288.02 Mbit/s
95th percentile per-packet one-way delay: 256.884 ms
Loss rate: 0.99%
```

Run 1: Report of TCP Cubic — Data Link

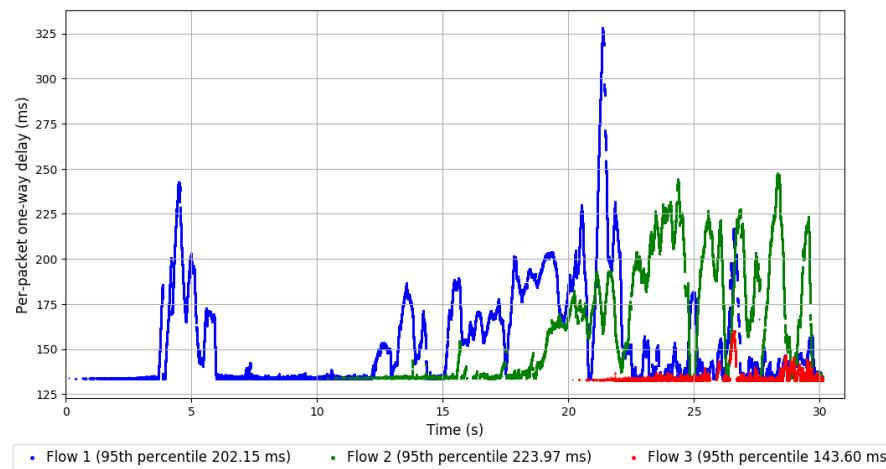
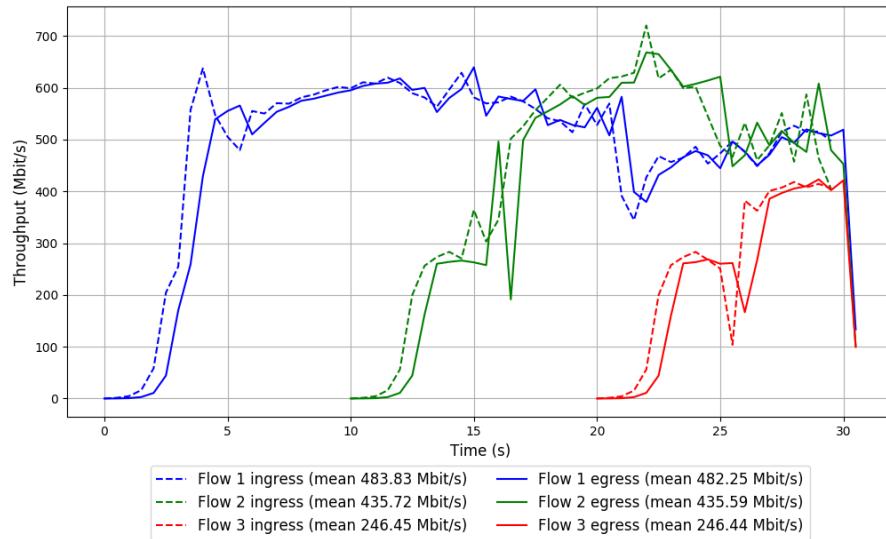


Run 2: Statistics of TCP Cubic

```
Start at: 2018-12-12 00:17:53
End at: 2018-12-12 00:18:23
Local clock offset: -0.668 ms
Remote clock offset: 0.276 ms

# Below is generated by plot.py at 2018-12-12 03:00:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 854.33 Mbit/s
95th percentile per-packet one-way delay: 217.670 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 482.25 Mbit/s
95th percentile per-packet one-way delay: 202.148 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 435.59 Mbit/s
95th percentile per-packet one-way delay: 223.975 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 246.44 Mbit/s
95th percentile per-packet one-way delay: 143.598 ms
Loss rate: 0.00%
```

Run 2: Report of TCP Cubic — Data Link

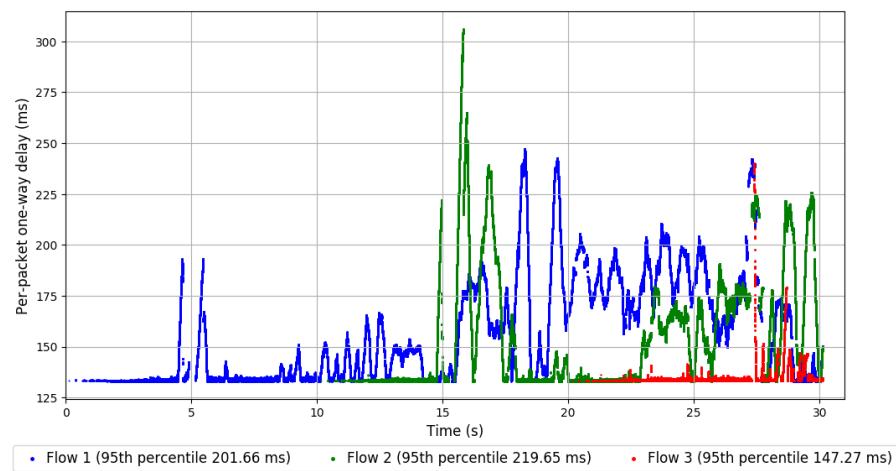
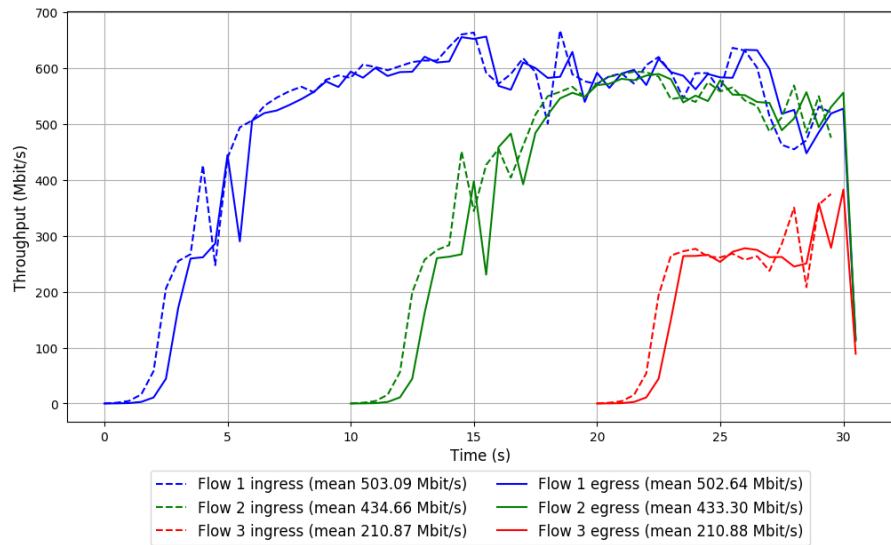


Run 3: Statistics of TCP Cubic

```
Start at: 2018-12-12 00:54:05
End at: 2018-12-12 00:54:35
Local clock offset: 0.028 ms
Remote clock offset: -0.273 ms

# Below is generated by plot.py at 2018-12-12 03:00:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 861.40 Mbit/s
95th percentile per-packet one-way delay: 210.533 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 502.64 Mbit/s
95th percentile per-packet one-way delay: 201.655 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 433.30 Mbit/s
95th percentile per-packet one-way delay: 219.646 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 210.88 Mbit/s
95th percentile per-packet one-way delay: 147.268 ms
Loss rate: 0.00%
```

Run 3: Report of TCP Cubic — Data Link

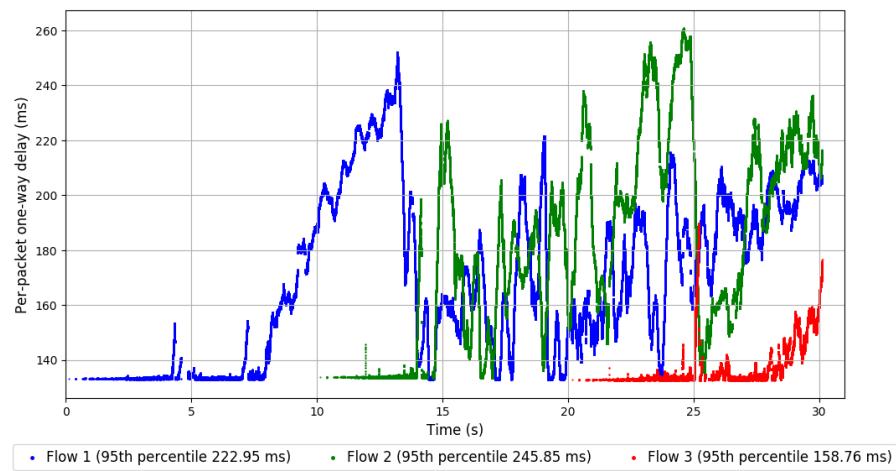
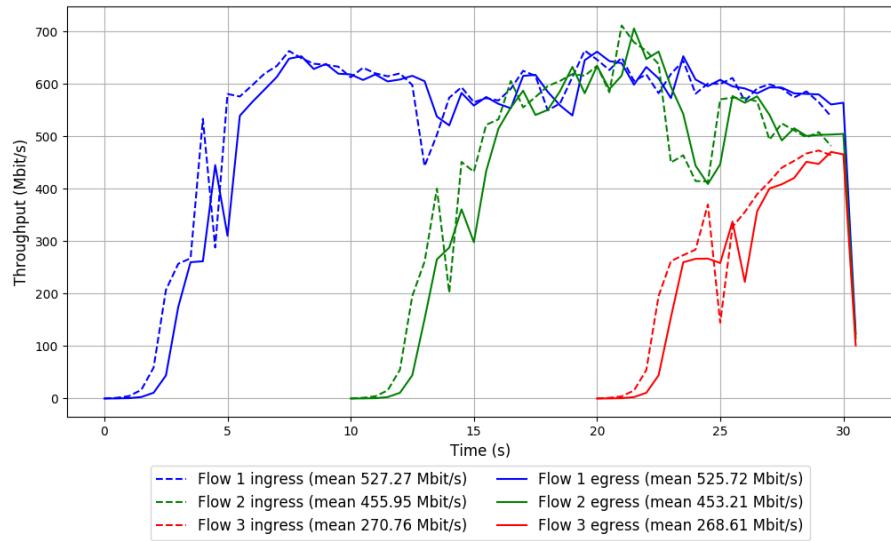


Run 4: Statistics of TCP Cubic

```
Start at: 2018-12-12 01:30:05
End at: 2018-12-12 01:30:35
Local clock offset: -0.318 ms
Remote clock offset: -0.057 ms

# Below is generated by plot.py at 2018-12-12 03:02:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 916.82 Mbit/s
95th percentile per-packet one-way delay: 227.760 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 525.72 Mbit/s
95th percentile per-packet one-way delay: 222.951 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 453.21 Mbit/s
95th percentile per-packet one-way delay: 245.851 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 268.61 Mbit/s
95th percentile per-packet one-way delay: 158.758 ms
Loss rate: 0.77%
```

Run 4: Report of TCP Cubic — Data Link

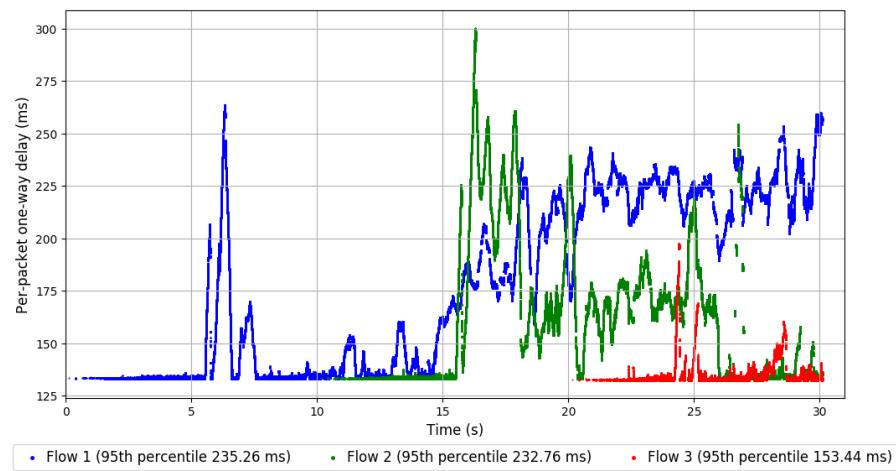
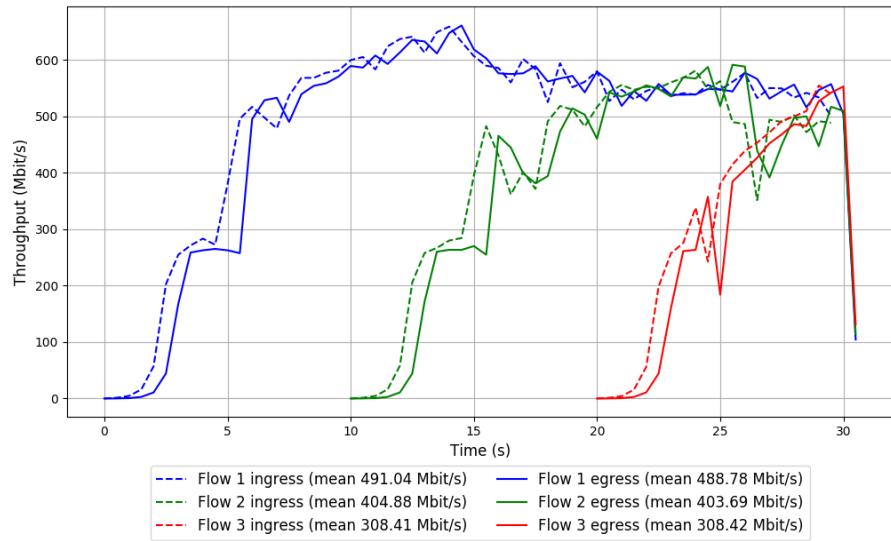


Run 5: Statistics of TCP Cubic

```
Start at: 2018-12-12 02:06:29
End at: 2018-12-12 02:06:59
Local clock offset: -0.065 ms
Remote clock offset: -0.03 ms

# Below is generated by plot.py at 2018-12-12 03:02:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 860.14 Mbit/s
95th percentile per-packet one-way delay: 233.728 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 488.78 Mbit/s
95th percentile per-packet one-way delay: 235.263 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 403.69 Mbit/s
95th percentile per-packet one-way delay: 232.756 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 308.42 Mbit/s
95th percentile per-packet one-way delay: 153.443 ms
Loss rate: 0.00%
```

Run 5: Report of TCP Cubic — Data Link

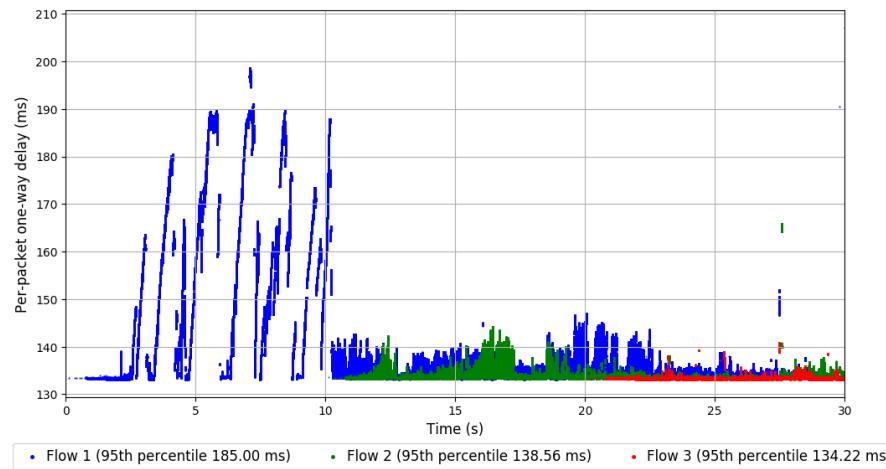
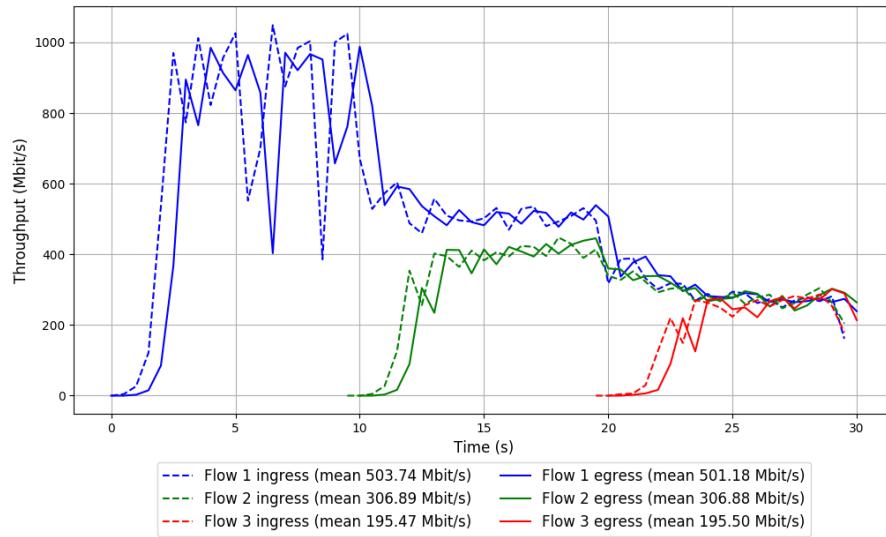


```
Run 1: Statistics of FillP

Start at: 2018-12-11 23:34:22
End at: 2018-12-11 23:34:52
Local clock offset: -0.935 ms
Remote clock offset: 0.01 ms

# Below is generated by plot.py at 2018-12-12 03:02:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 769.97 Mbit/s
95th percentile per-packet one-way delay: 178.289 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 501.18 Mbit/s
95th percentile per-packet one-way delay: 184.998 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 306.88 Mbit/s
95th percentile per-packet one-way delay: 138.562 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 195.50 Mbit/s
95th percentile per-packet one-way delay: 134.215 ms
Loss rate: 0.00%
```

Run 1: Report of FillP — Data Link

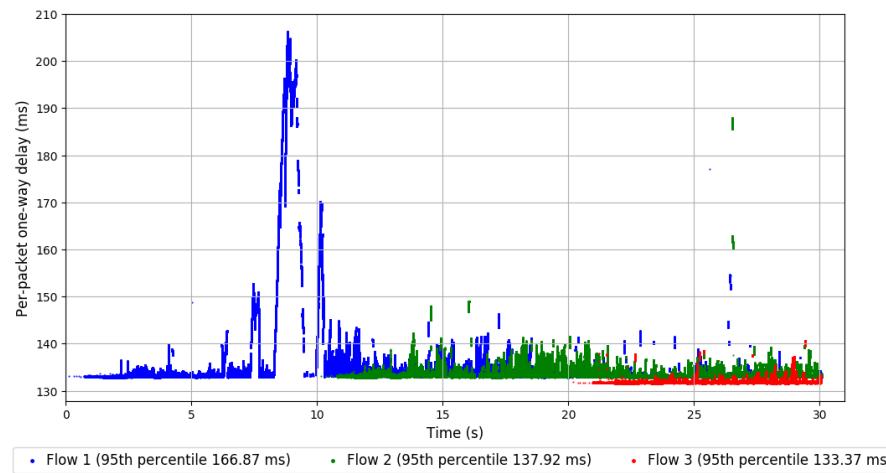
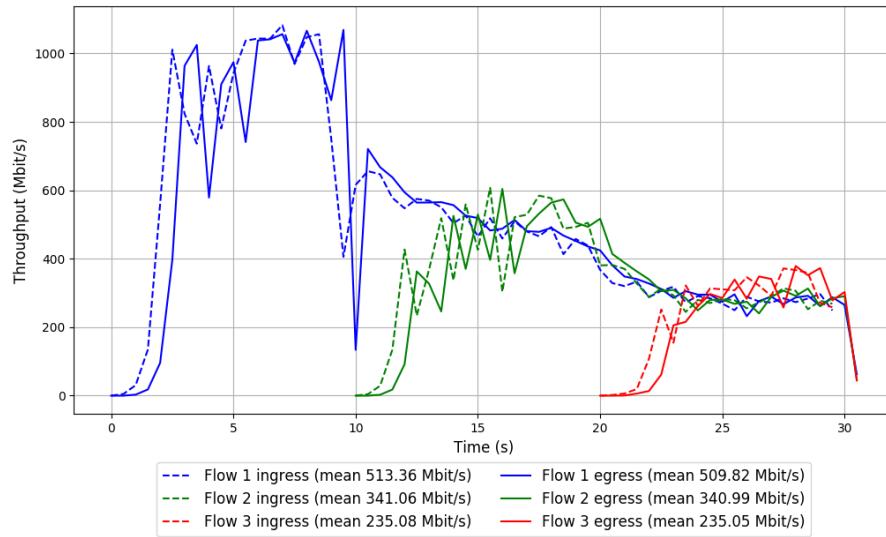


Run 2: Statistics of FillP

```
Start at: 2018-12-12 00:10:26
End at: 2018-12-12 00:10:56
Local clock offset: -0.243 ms
Remote clock offset: -0.113 ms

# Below is generated by plot.py at 2018-12-12 03:14:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 814.30 Mbit/s
95th percentile per-packet one-way delay: 149.588 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 509.82 Mbit/s
95th percentile per-packet one-way delay: 166.867 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 340.99 Mbit/s
95th percentile per-packet one-way delay: 137.917 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 235.05 Mbit/s
95th percentile per-packet one-way delay: 133.374 ms
Loss rate: 0.00%
```

Run 2: Report of FillP — Data Link

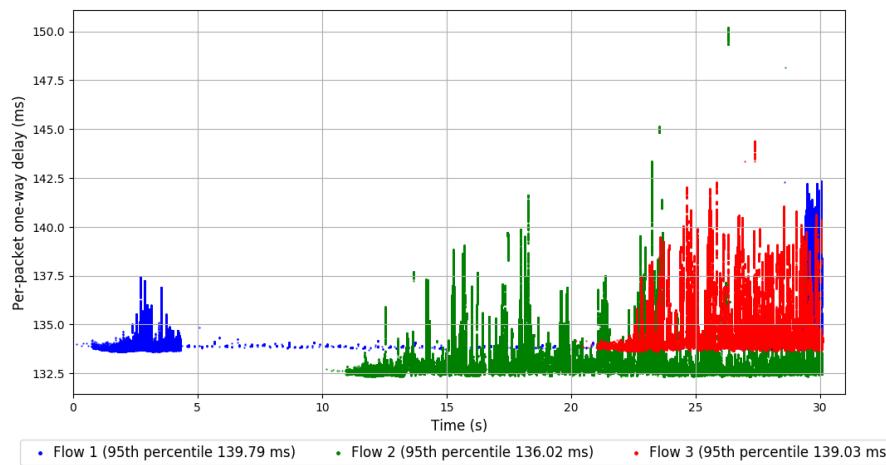
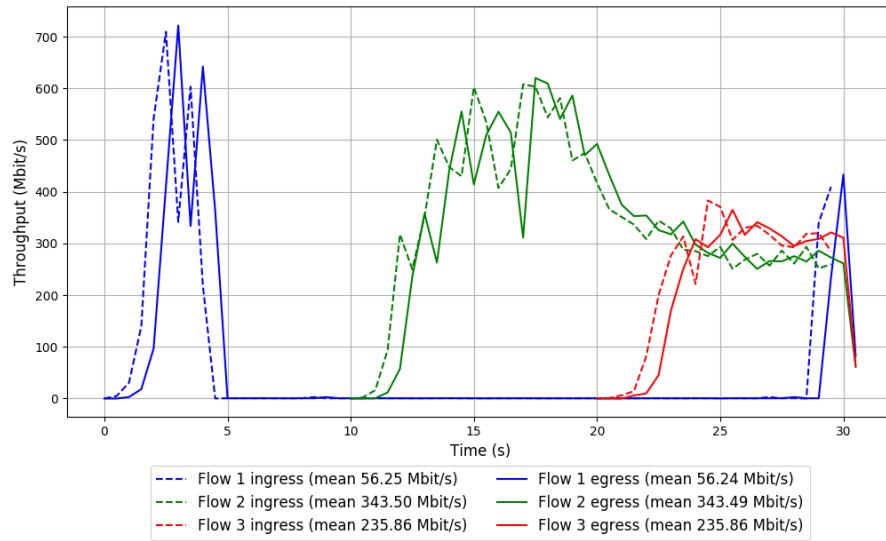


Run 3: Statistics of FillP

```
Start at: 2018-12-12 00:47:28
End at: 2018-12-12 00:47:58
Local clock offset: -0.099 ms
Remote clock offset: 0.097 ms

# Below is generated by plot.py at 2018-12-12 03:14:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 362.32 Mbit/s
95th percentile per-packet one-way delay: 137.848 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 56.24 Mbit/s
95th percentile per-packet one-way delay: 139.794 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 343.49 Mbit/s
95th percentile per-packet one-way delay: 136.023 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 235.86 Mbit/s
95th percentile per-packet one-way delay: 139.032 ms
Loss rate: 0.00%
```

Run 3: Report of FillP — Data Link

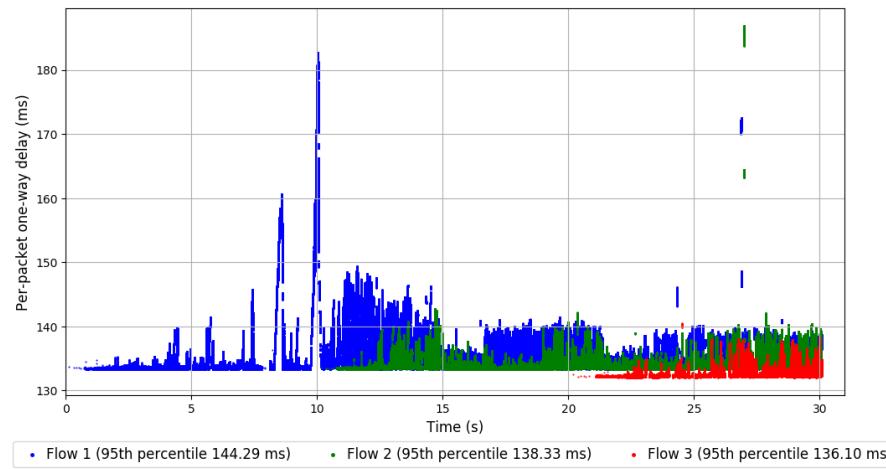
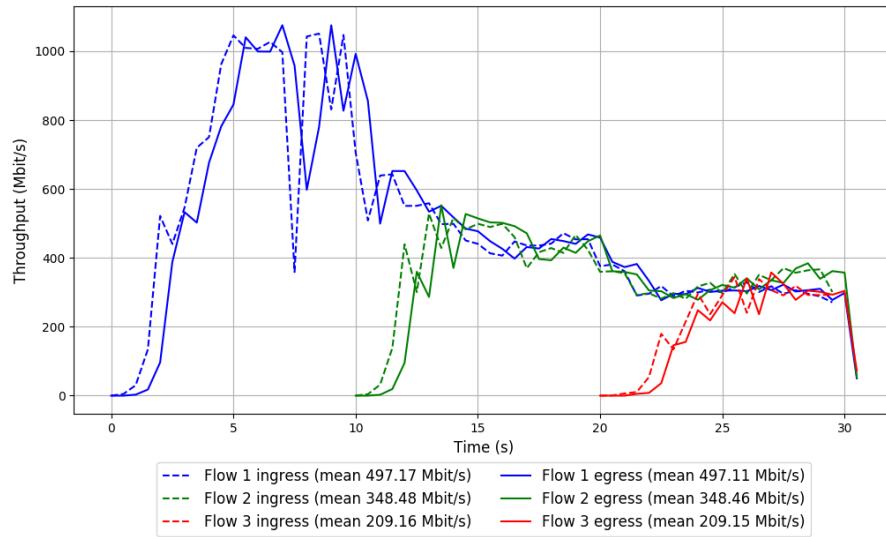


Run 4: Statistics of FillP

```
Start at: 2018-12-12 01:22:51
End at: 2018-12-12 01:23:21
Local clock offset: -0.149 ms
Remote clock offset: -0.104 ms

# Below is generated by plot.py at 2018-12-12 03:16:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 798.07 Mbit/s
95th percentile per-packet one-way delay: 141.851 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 497.11 Mbit/s
95th percentile per-packet one-way delay: 144.293 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 348.46 Mbit/s
95th percentile per-packet one-way delay: 138.329 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 209.15 Mbit/s
95th percentile per-packet one-way delay: 136.099 ms
Loss rate: 0.00%
```

Run 4: Report of FillP — Data Link

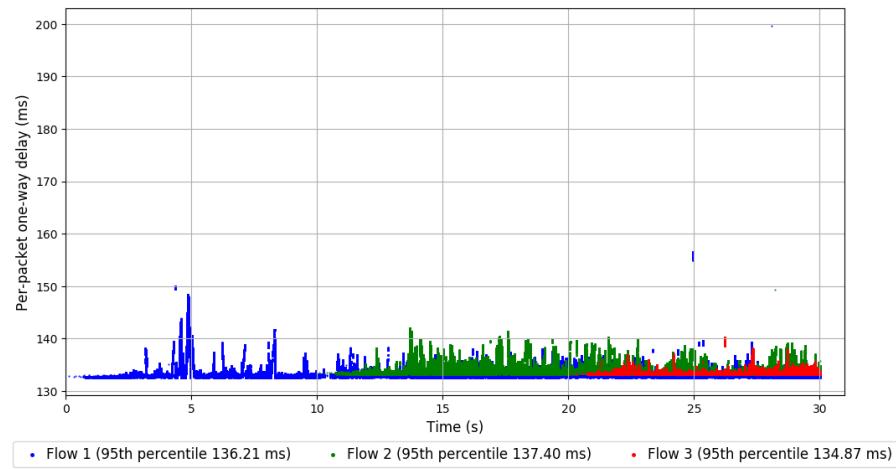
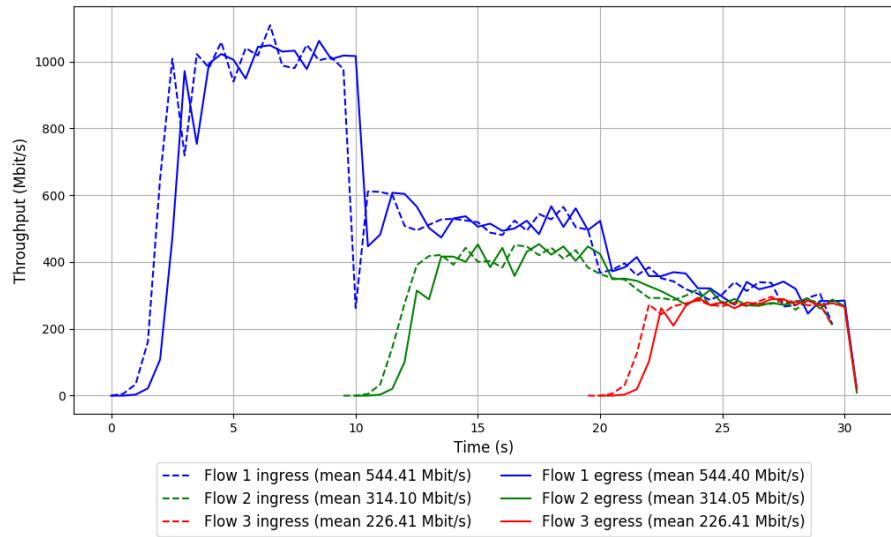


Run 5: Statistics of FillP

```
Start at: 2018-12-12 01:59:30
End at: 2018-12-12 02:00:00
Local clock offset: 0.099 ms
Remote clock offset: -0.056 ms

# Below is generated by plot.py at 2018-12-12 03:17:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 828.83 Mbit/s
95th percentile per-packet one-way delay: 136.605 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 544.40 Mbit/s
95th percentile per-packet one-way delay: 136.209 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 314.05 Mbit/s
95th percentile per-packet one-way delay: 137.401 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 226.41 Mbit/s
95th percentile per-packet one-way delay: 134.874 ms
Loss rate: 0.00%
```

Run 5: Report of FillP — Data Link

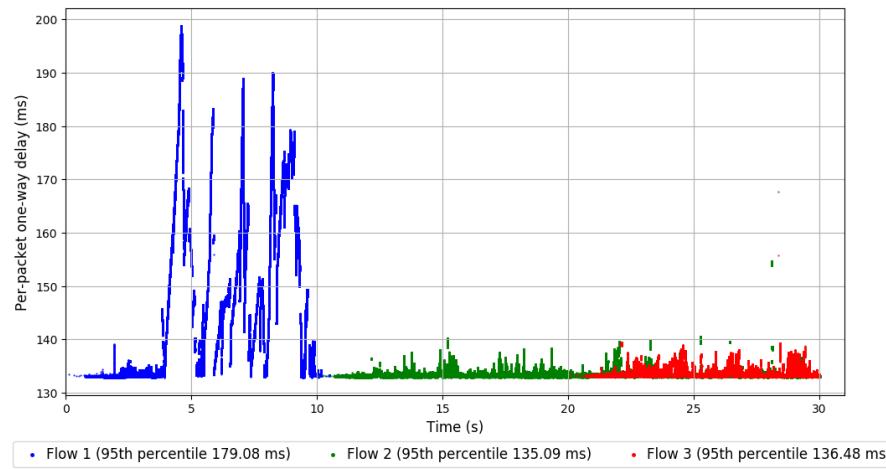
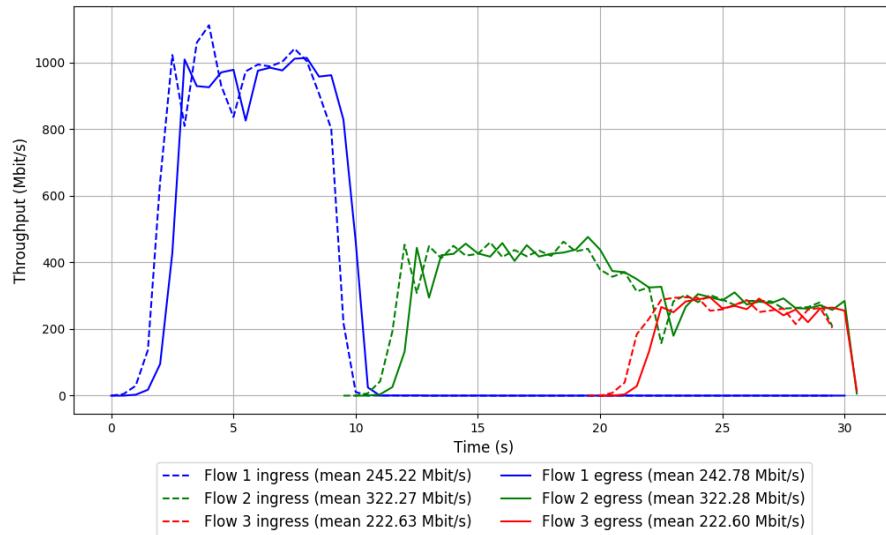


Run 1: Statistics of FillP-Sheep

```
Start at: 2018-12-11 23:47:02
End at: 2018-12-11 23:47:32
Local clock offset: -0.784 ms
Remote clock offset: -0.019 ms

# Below is generated by plot.py at 2018-12-12 03:17:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 529.68 Mbit/s
95th percentile per-packet one-way delay: 171.689 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 242.78 Mbit/s
95th percentile per-packet one-way delay: 179.079 ms
Loss rate: 1.00%
-- Flow 2:
Average throughput: 322.28 Mbit/s
95th percentile per-packet one-way delay: 135.095 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 222.60 Mbit/s
95th percentile per-packet one-way delay: 136.478 ms
Loss rate: 0.01%
```

Run 1: Report of FillP-Sheep — Data Link

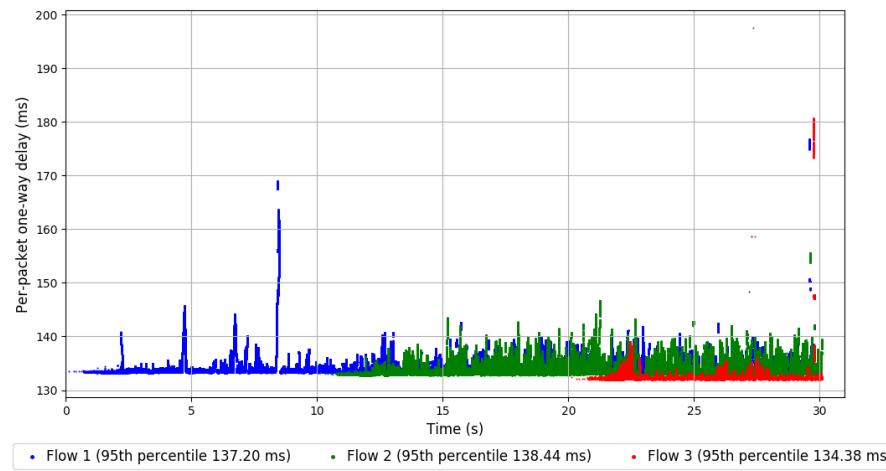
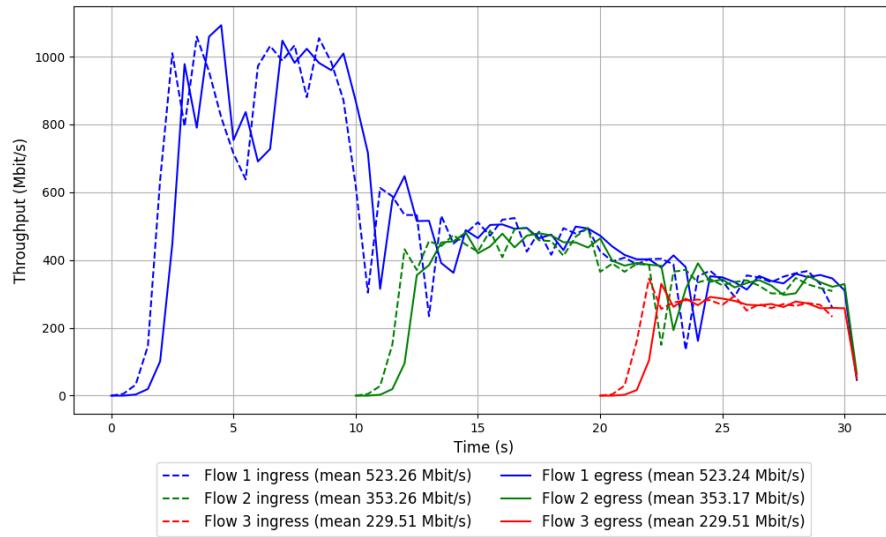


Run 2: Statistics of FillP-Sheep

```
Start at: 2018-12-12 00:23:34
End at: 2018-12-12 00:24:04
Local clock offset: -0.707 ms
Remote clock offset: -0.141 ms

# Below is generated by plot.py at 2018-12-12 03:20:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 834.38 Mbit/s
95th percentile per-packet one-way delay: 137.656 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 523.24 Mbit/s
95th percentile per-packet one-way delay: 137.198 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 353.17 Mbit/s
95th percentile per-packet one-way delay: 138.435 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 229.51 Mbit/s
95th percentile per-packet one-way delay: 134.380 ms
Loss rate: 0.00%
```

Run 2: Report of FillP-Sheep — Data Link

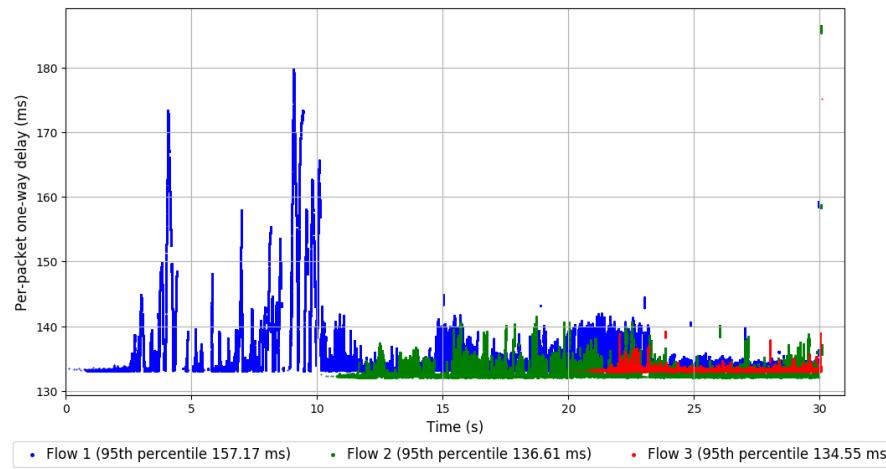
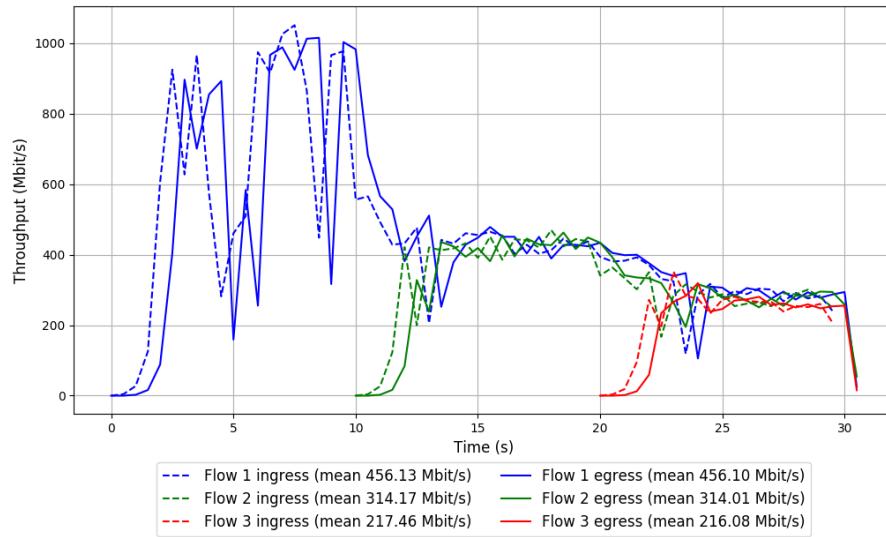


Run 3: Statistics of FillP-Sheep

```
Start at: 2018-12-12 00:59:32
End at: 2018-12-12 01:00:02
Local clock offset: 0.234 ms
Remote clock offset: -0.301 ms

# Below is generated by plot.py at 2018-12-12 03:20:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 735.71 Mbit/s
95th percentile per-packet one-way delay: 150.196 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 456.10 Mbit/s
95th percentile per-packet one-way delay: 157.170 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 314.01 Mbit/s
95th percentile per-packet one-way delay: 136.607 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 216.08 Mbit/s
95th percentile per-packet one-way delay: 134.549 ms
Loss rate: 0.28%
```

Run 3: Report of FillP-Sheep — Data Link

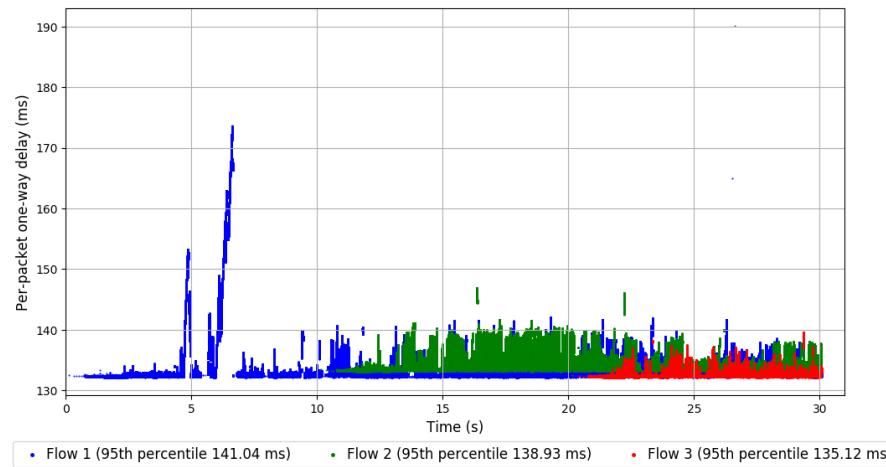
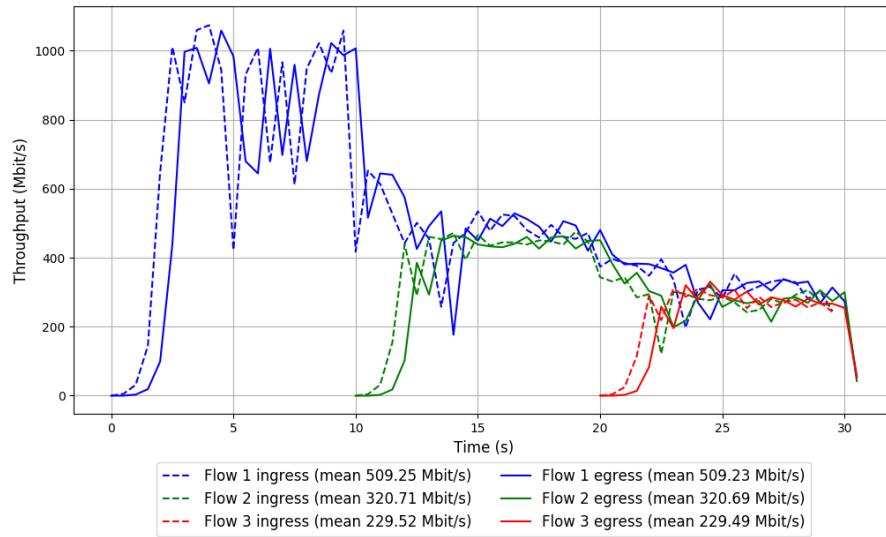


Run 4: Statistics of FillP-Sheep

```
Start at: 2018-12-12 01:35:51
End at: 2018-12-12 01:36:21
Local clock offset: 0.079 ms
Remote clock offset: -0.105 ms

# Below is generated by plot.py at 2018-12-12 03:20:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 798.51 Mbit/s
95th percentile per-packet one-way delay: 139.205 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 509.23 Mbit/s
95th percentile per-packet one-way delay: 141.042 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 320.69 Mbit/s
95th percentile per-packet one-way delay: 138.930 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 229.49 Mbit/s
95th percentile per-packet one-way delay: 135.125 ms
Loss rate: 0.00%
```

Run 4: Report of FillP-Sheep — Data Link

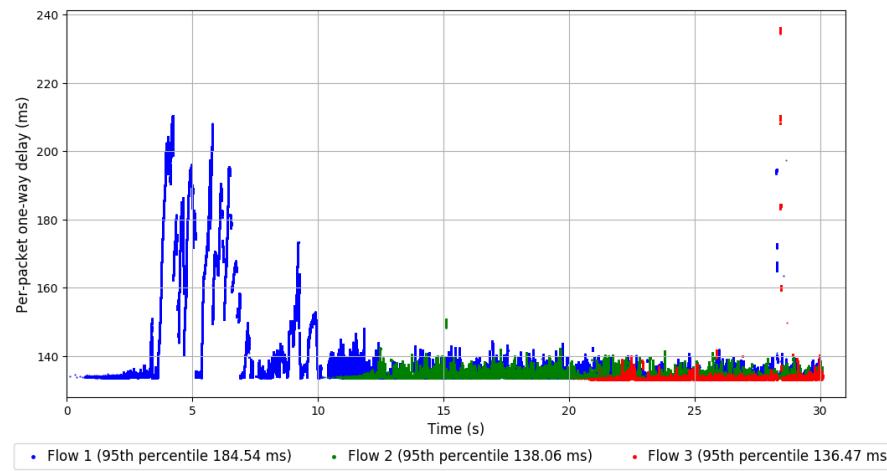
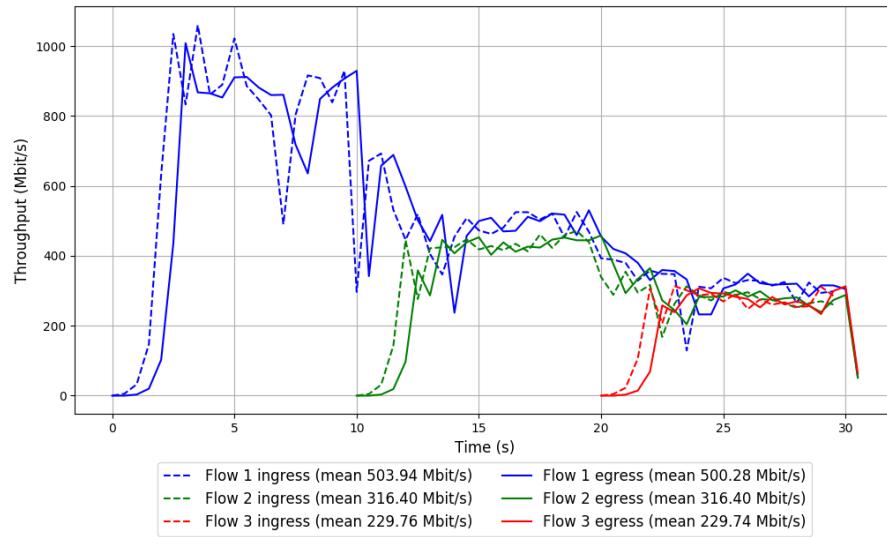


Run 5: Statistics of FillP-Sheep

```
Start at: 2018-12-12 02:11:55
End at: 2018-12-12 02:12:25
Local clock offset: -0.447 ms
Remote clock offset: -0.122 ms

# Below is generated by plot.py at 2018-12-12 03:23:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 786.71 Mbit/s
95th percentile per-packet one-way delay: 176.961 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 500.28 Mbit/s
95th percentile per-packet one-way delay: 184.539 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 316.40 Mbit/s
95th percentile per-packet one-way delay: 138.059 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 229.74 Mbit/s
95th percentile per-packet one-way delay: 136.474 ms
Loss rate: 0.00%
```

Run 5: Report of FillP-Sheep — Data Link

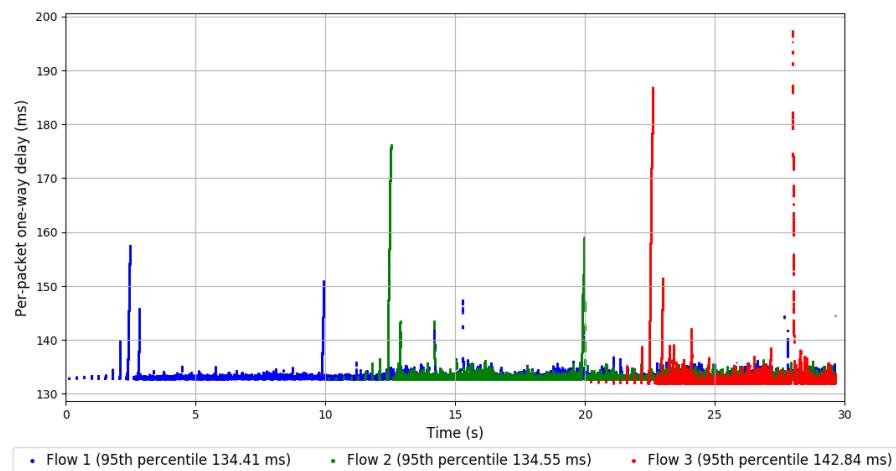
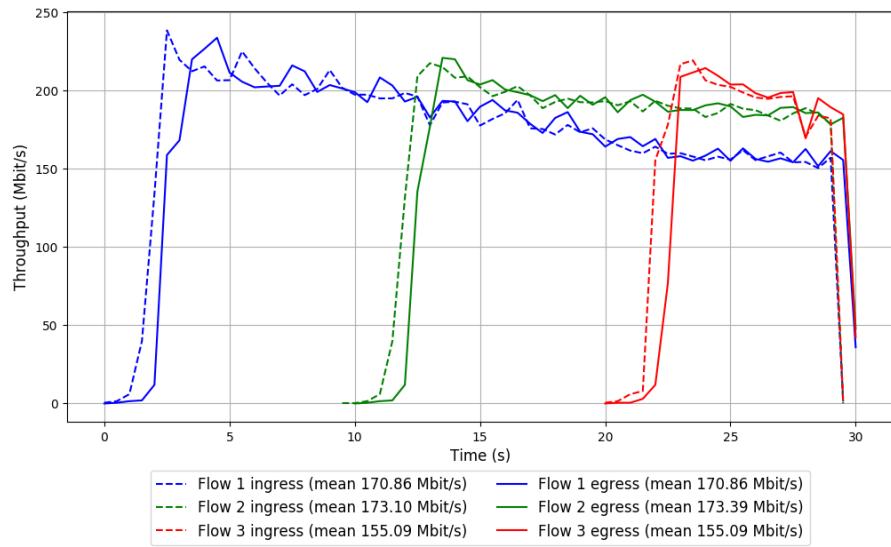


Run 1: Statistics of Indigo

```
Start at: 2018-12-11 23:22:28
End at: 2018-12-11 23:22:58
Local clock offset: -0.457 ms
Remote clock offset: -0.03 ms

# Below is generated by plot.py at 2018-12-12 03:23:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 334.87 Mbit/s
95th percentile per-packet one-way delay: 134.742 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 170.86 Mbit/s
95th percentile per-packet one-way delay: 134.412 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 173.39 Mbit/s
95th percentile per-packet one-way delay: 134.546 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 155.09 Mbit/s
95th percentile per-packet one-way delay: 142.837 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link

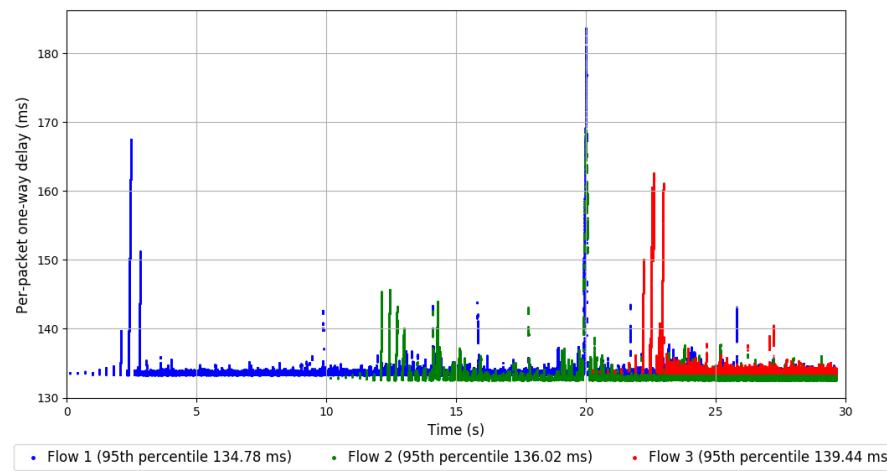
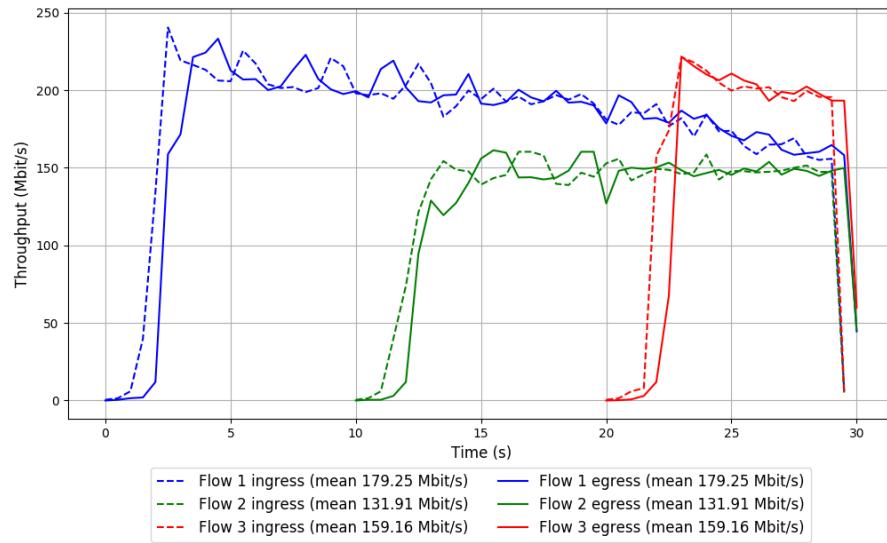


Run 2: Statistics of Indigo

```
Start at: 2018-12-11 23:58:17
End at: 2018-12-11 23:58:47
Local clock offset: -1.04 ms
Remote clock offset: 0.018 ms

# Below is generated by plot.py at 2018-12-12 03:26:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 317.05 Mbit/s
95th percentile per-packet one-way delay: 135.483 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 179.25 Mbit/s
95th percentile per-packet one-way delay: 134.780 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 131.91 Mbit/s
95th percentile per-packet one-way delay: 136.020 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 159.16 Mbit/s
95th percentile per-packet one-way delay: 139.435 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo — Data Link

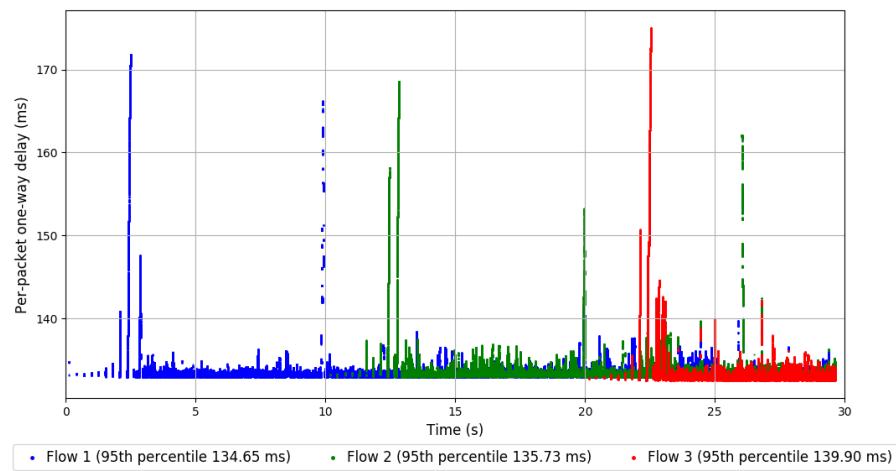
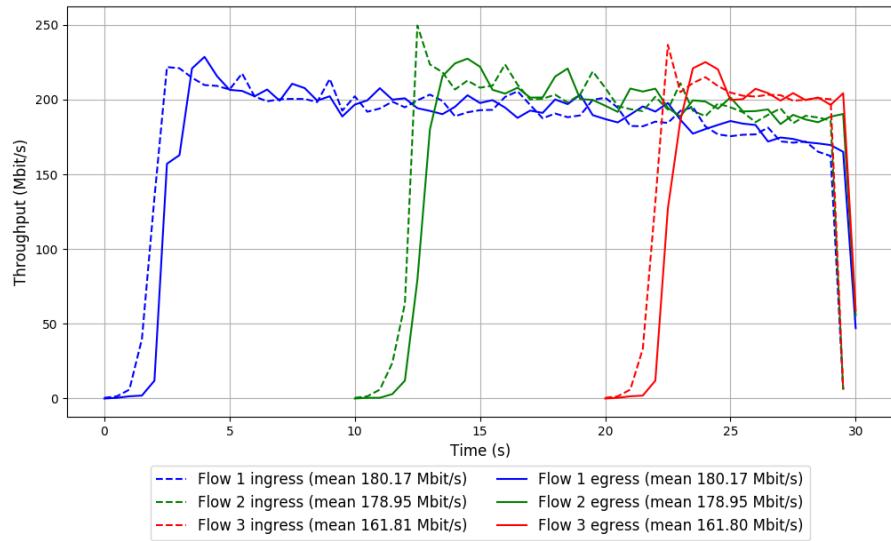


Run 3: Statistics of Indigo

```
Start at: 2018-12-12 00:35:16
End at: 2018-12-12 00:35:46
Local clock offset: -0.455 ms
Remote clock offset: -0.209 ms

# Below is generated by plot.py at 2018-12-12 03:28:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 350.20 Mbit/s
95th percentile per-packet one-way delay: 135.476 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 180.17 Mbit/s
95th percentile per-packet one-way delay: 134.649 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 178.95 Mbit/s
95th percentile per-packet one-way delay: 135.733 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 161.80 Mbit/s
95th percentile per-packet one-way delay: 139.895 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo — Data Link

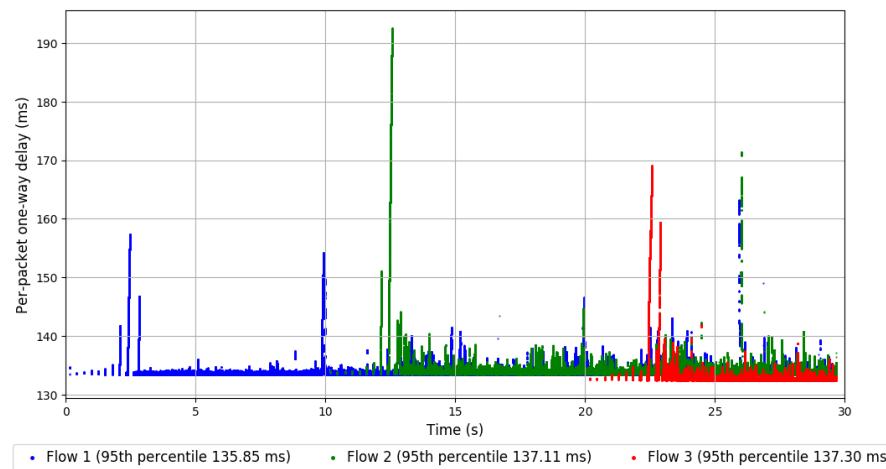
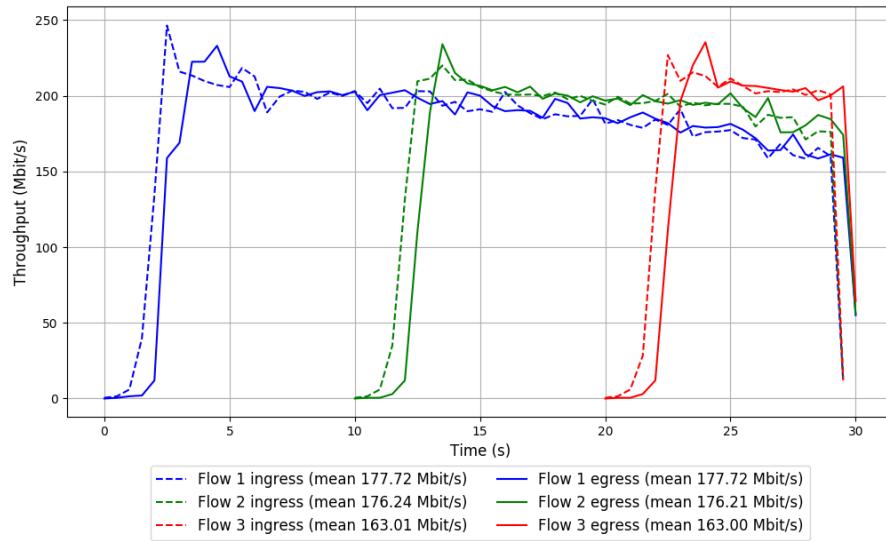


Run 4: Statistics of Indigo

```
Start at: 2018-12-12 01:11:15
End at: 2018-12-12 01:11:45
Local clock offset: -0.247 ms
Remote clock offset: -0.134 ms

# Below is generated by plot.py at 2018-12-12 03:29:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 346.28 Mbit/s
95th percentile per-packet one-way delay: 136.532 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 177.72 Mbit/s
95th percentile per-packet one-way delay: 135.855 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 176.21 Mbit/s
95th percentile per-packet one-way delay: 137.112 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 163.00 Mbit/s
95th percentile per-packet one-way delay: 137.297 ms
Loss rate: 0.01%
```

Run 4: Report of Indigo — Data Link

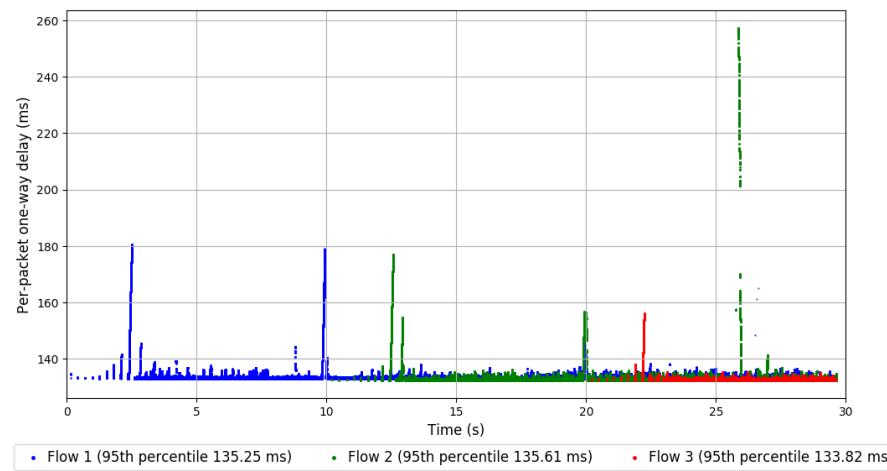
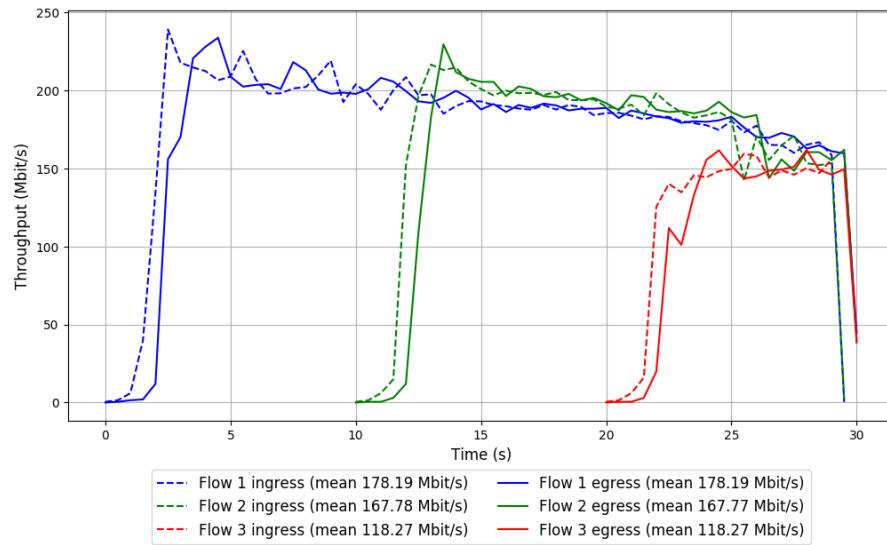


Run 5: Statistics of Indigo

```
Start at: 2018-12-12 01:47:30
End at: 2018-12-12 01:48:00
Local clock offset: 0.322 ms
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2018-12-12 03:29:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 326.34 Mbit/s
95th percentile per-packet one-way delay: 135.175 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 178.19 Mbit/s
95th percentile per-packet one-way delay: 135.249 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 167.77 Mbit/s
95th percentile per-packet one-way delay: 135.612 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 118.27 Mbit/s
95th percentile per-packet one-way delay: 133.824 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo — Data Link

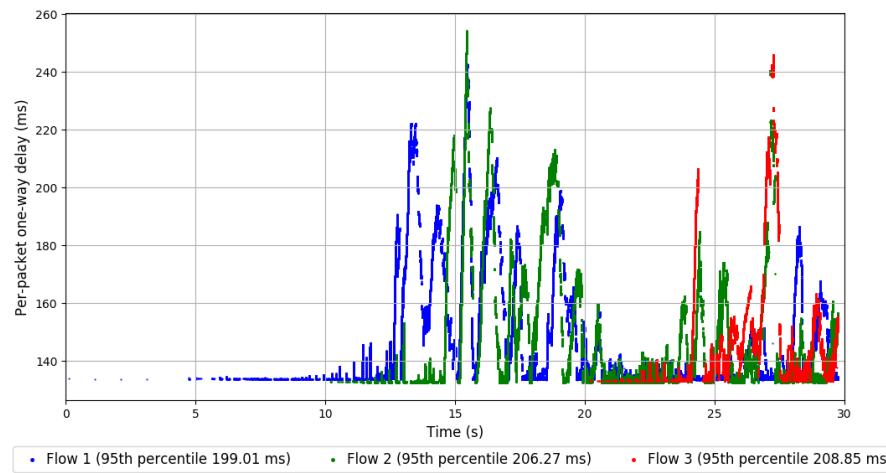
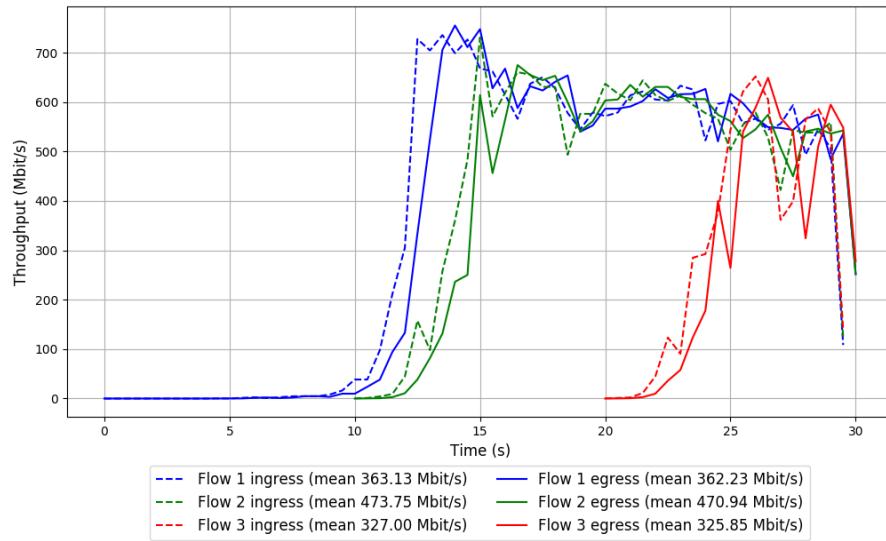


Run 1: Statistics of Indigo-MusesD

```
Start at: 2018-12-11 23:12:40
End at: 2018-12-11 23:13:10
Local clock offset: -0.675 ms
Remote clock offset: -0.019 ms

# Below is generated by plot.py at 2018-12-12 03:33:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 777.86 Mbit/s
95th percentile per-packet one-way delay: 204.285 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 362.23 Mbit/s
95th percentile per-packet one-way delay: 199.009 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 470.94 Mbit/s
95th percentile per-packet one-way delay: 206.271 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 325.85 Mbit/s
95th percentile per-packet one-way delay: 208.853 ms
Loss rate: 0.42%
```

Run 1: Report of Indigo-MusesD — Data Link

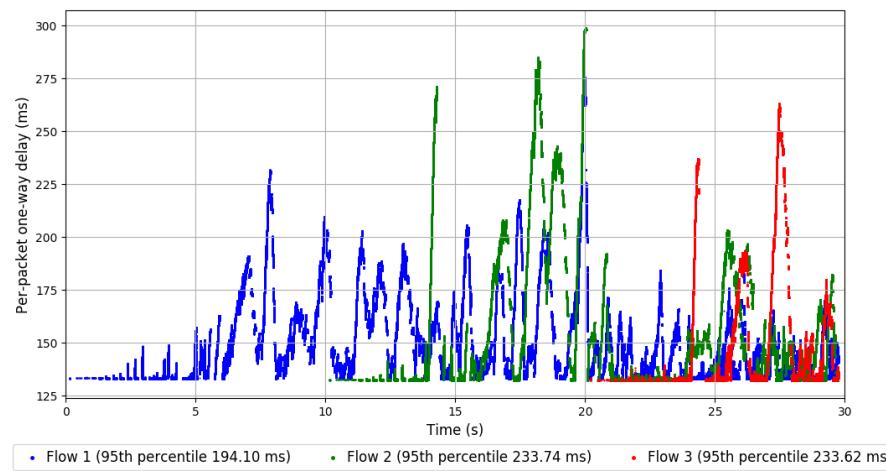
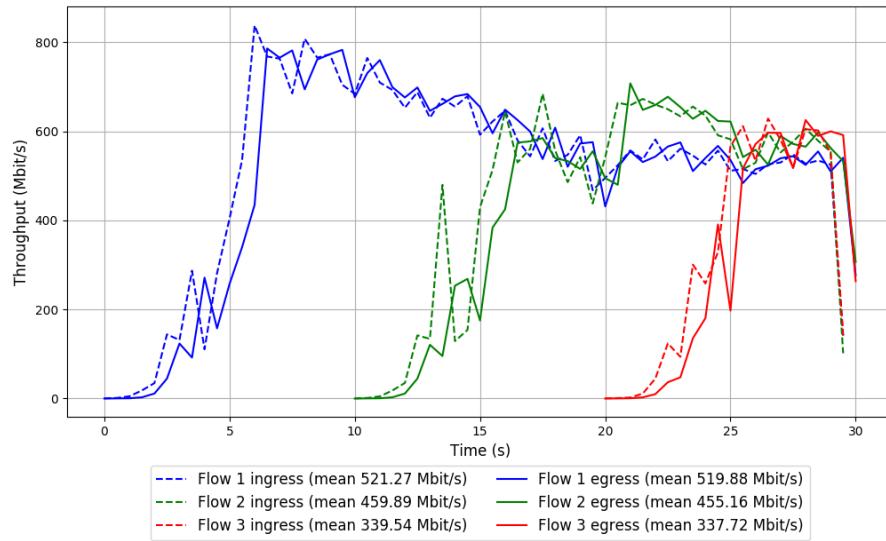


Run 2: Statistics of Indigo-MusesD

```
Start at: 2018-12-11 23:48:48
End at: 2018-12-11 23:49:18
Local clock offset: -0.51 ms
Remote clock offset: 0.062 ms

# Below is generated by plot.py at 2018-12-12 03:38:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 930.31 Mbit/s
95th percentile per-packet one-way delay: 209.160 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 519.88 Mbit/s
95th percentile per-packet one-way delay: 194.104 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 455.16 Mbit/s
95th percentile per-packet one-way delay: 233.744 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 337.72 Mbit/s
95th percentile per-packet one-way delay: 233.623 ms
Loss rate: 0.53%
```

Run 2: Report of Indigo-MusesD — Data Link

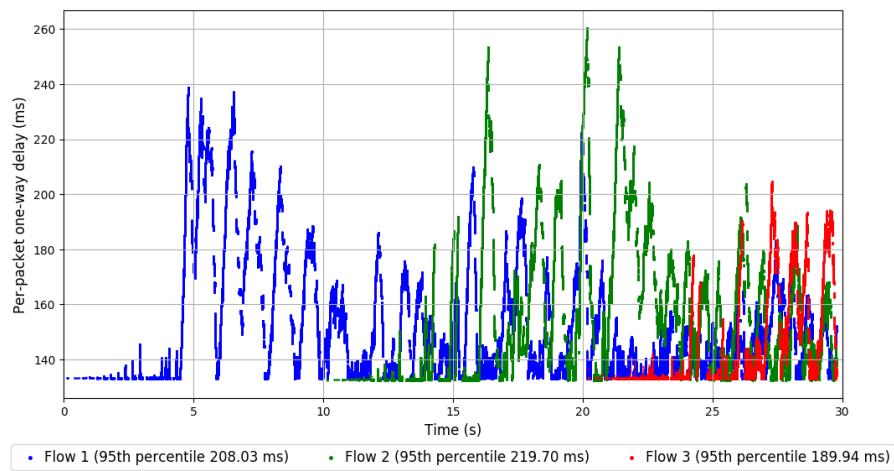
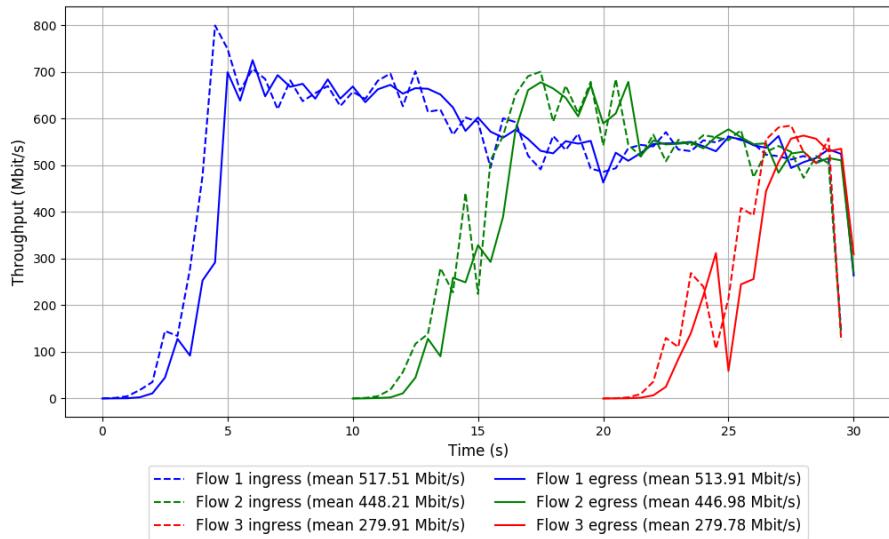


Run 3: Statistics of Indigo-MusesD

```
Start at: 2018-12-12 00:25:36
End at: 2018-12-12 00:26:06
Local clock offset: -0.454 ms
Remote clock offset: -0.138 ms

# Below is generated by plot.py at 2018-12-12 03:41:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 900.30 Mbit/s
95th percentile per-packet one-way delay: 208.438 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 513.91 Mbit/s
95th percentile per-packet one-way delay: 208.033 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 446.98 Mbit/s
95th percentile per-packet one-way delay: 219.704 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 279.78 Mbit/s
95th percentile per-packet one-way delay: 189.935 ms
Loss rate: 0.01%
```

Run 3: Report of Indigo-MusesD — Data Link

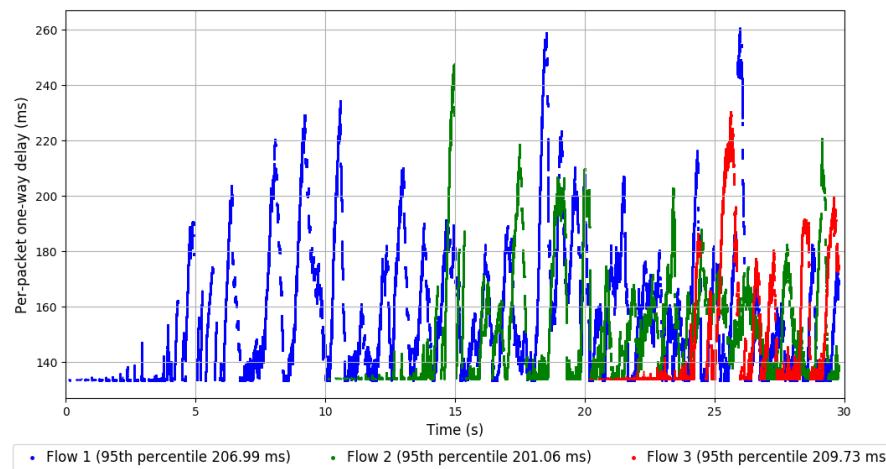
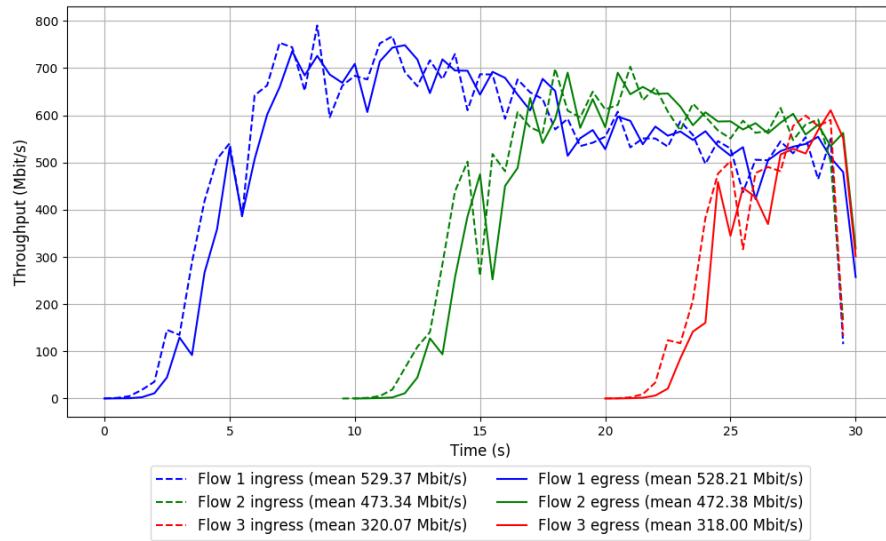


Run 4: Statistics of Indigo-MusesD

```
Start at: 2018-12-12 01:01:32
End at: 2018-12-12 01:02:02
Local clock offset: -0.449 ms
Remote clock offset: 0.064 ms

# Below is generated by plot.py at 2018-12-12 03:42:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 943.65 Mbit/s
95th percentile per-packet one-way delay: 204.158 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 528.21 Mbit/s
95th percentile per-packet one-way delay: 206.989 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 472.38 Mbit/s
95th percentile per-packet one-way delay: 201.059 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 318.00 Mbit/s
95th percentile per-packet one-way delay: 209.730 ms
Loss rate: 0.63%
```

Run 4: Report of Indigo-MusesD — Data Link

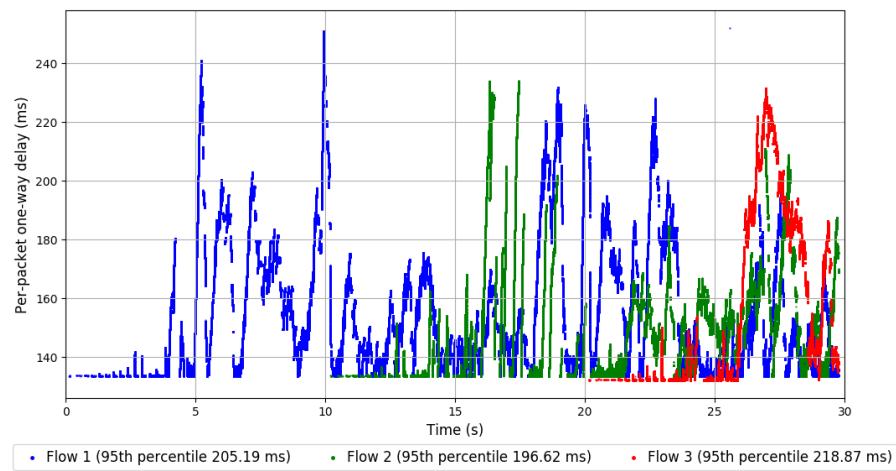
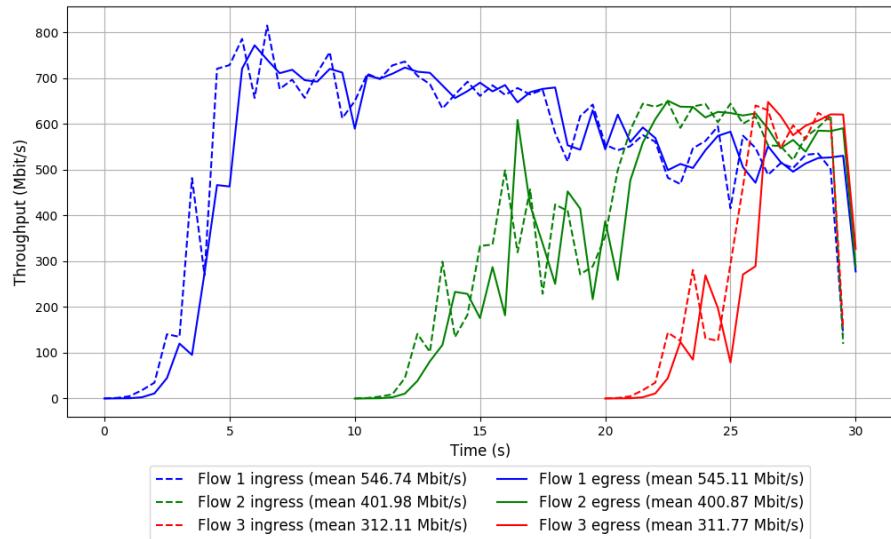


Run 5: Statistics of Indigo-MusesD

```
Start at: 2018-12-12 01:37:51
End at: 2018-12-12 01:38:21
Local clock offset: 0.102 ms
Remote clock offset: 0.257 ms

# Below is generated by plot.py at 2018-12-12 03:44:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 910.79 Mbit/s
95th percentile per-packet one-way delay: 207.517 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 545.11 Mbit/s
95th percentile per-packet one-way delay: 205.193 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 400.87 Mbit/s
95th percentile per-packet one-way delay: 196.624 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 311.77 Mbit/s
95th percentile per-packet one-way delay: 218.874 ms
Loss rate: 0.08%
```

Run 5: Report of Indigo-MusesD — Data Link

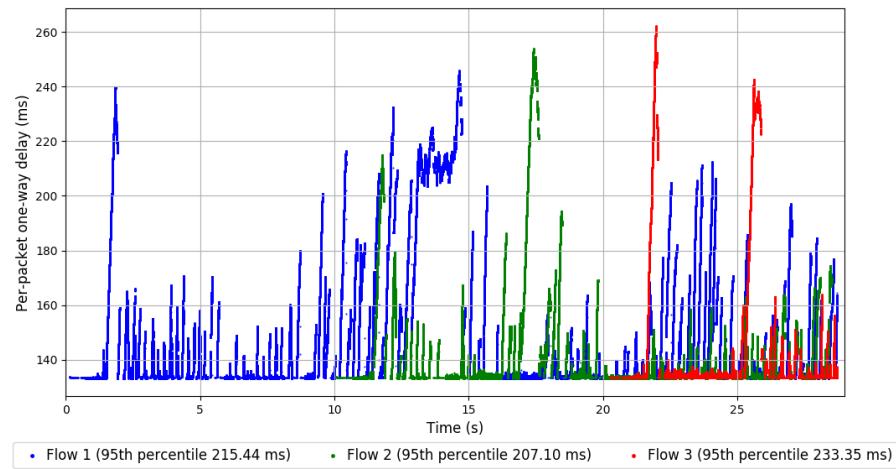
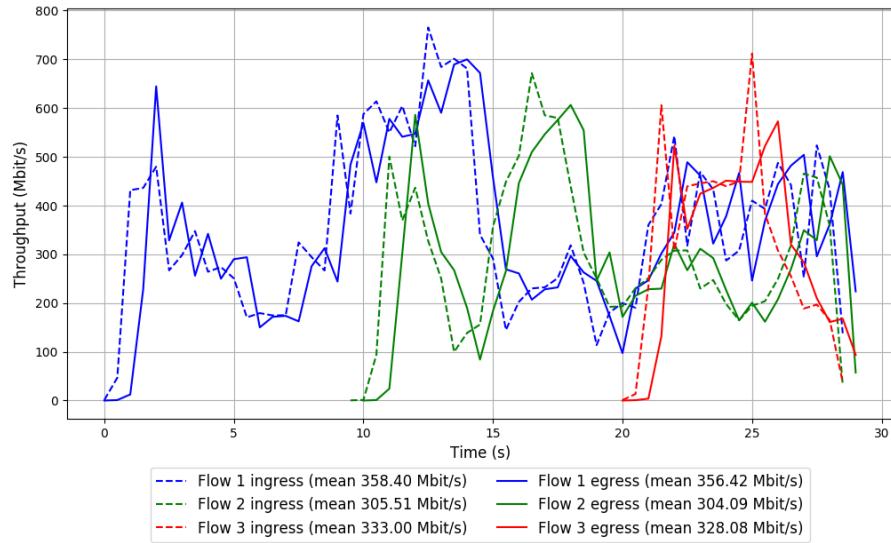


Run 1: Statistics of Indigo-MusesT

```
Start at: 2018-12-11 23:26:56
End at: 2018-12-11 23:27:26
Local clock offset: -0.461 ms
Remote clock offset: 0.372 ms

# Below is generated by plot.py at 2018-12-12 03:44:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 651.92 Mbit/s
95th percentile per-packet one-way delay: 218.283 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 356.42 Mbit/s
95th percentile per-packet one-way delay: 215.436 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 304.09 Mbit/s
95th percentile per-packet one-way delay: 207.105 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 328.08 Mbit/s
95th percentile per-packet one-way delay: 233.354 ms
Loss rate: 1.44%
```

Run 1: Report of Indigo-MusesT — Data Link

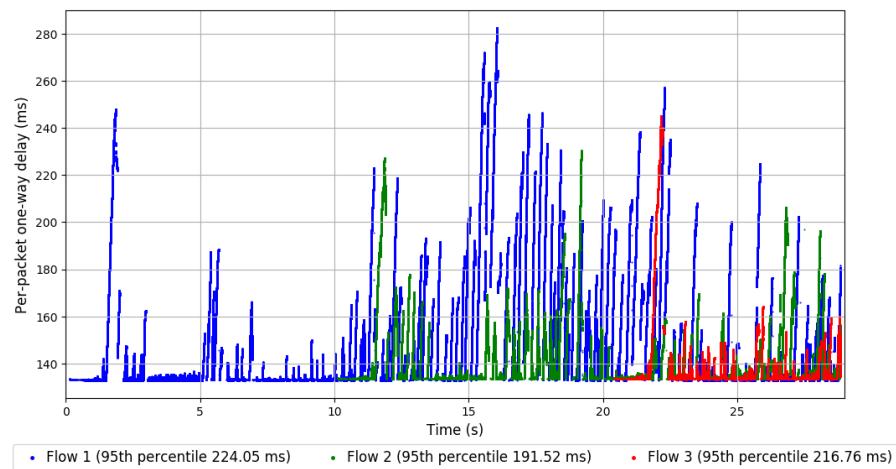
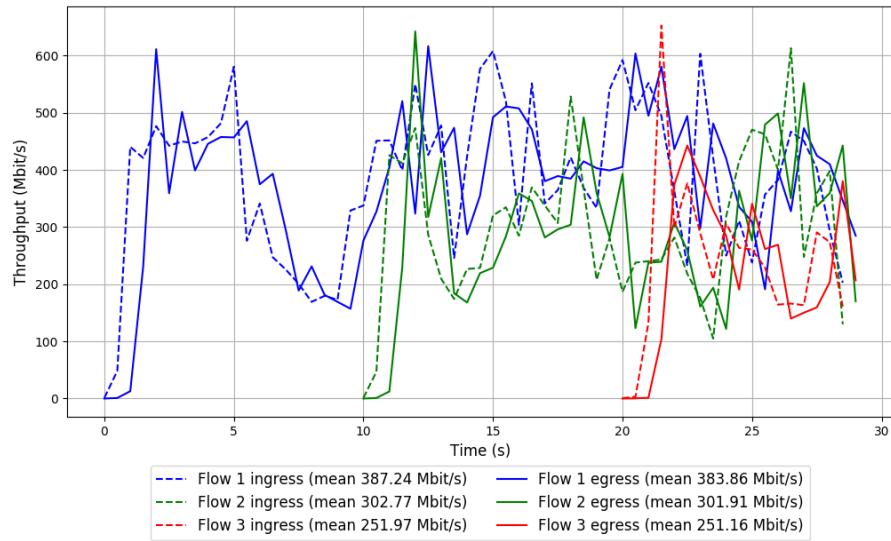


Run 2: Statistics of Indigo-MusesT

```
Start at: 2018-12-12 00:03:09
End at: 2018-12-12 00:03:39
Local clock offset: -0.63 ms
Remote clock offset: -0.025 ms

# Below is generated by plot.py at 2018-12-12 03:44:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 654.25 Mbit/s
95th percentile per-packet one-way delay: 214.155 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 383.86 Mbit/s
95th percentile per-packet one-way delay: 224.046 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 301.91 Mbit/s
95th percentile per-packet one-way delay: 191.517 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 251.16 Mbit/s
95th percentile per-packet one-way delay: 216.759 ms
Loss rate: 0.31%
```

Run 2: Report of Indigo-MusesT — Data Link

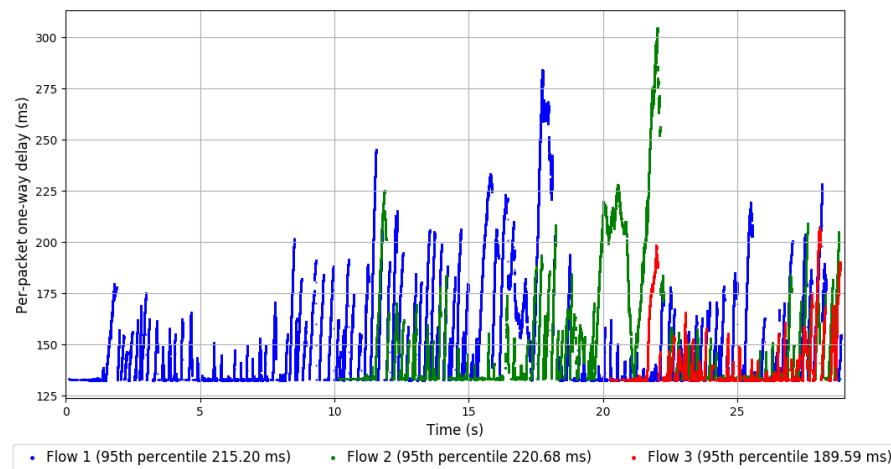
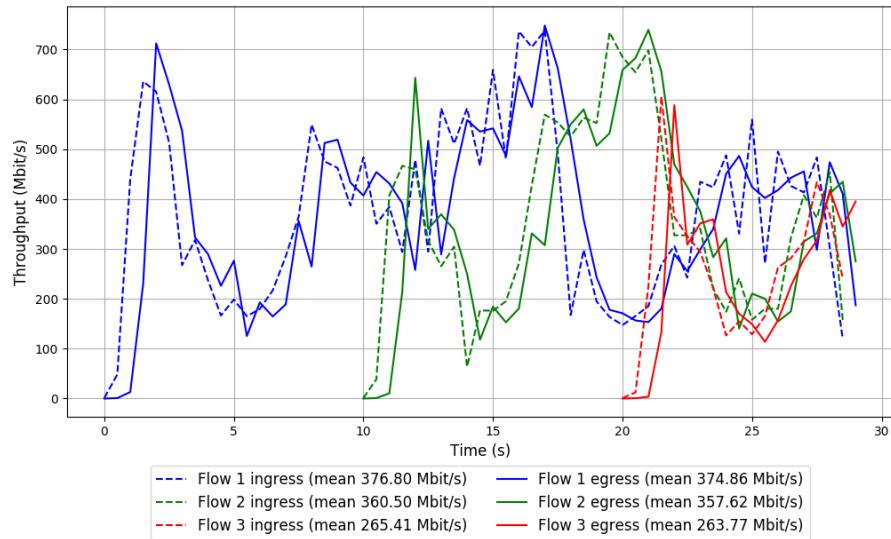


Run 3: Statistics of Indigo-MusesT

```
Start at: 2018-12-12 00:39:56
End at: 2018-12-12 00:40:26
Local clock offset: 0.001 ms
Remote clock offset: -0.246 ms

# Below is generated by plot.py at 2018-12-12 03:44:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 686.28 Mbit/s
95th percentile per-packet one-way delay: 215.976 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 374.86 Mbit/s
95th percentile per-packet one-way delay: 215.201 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 357.62 Mbit/s
95th percentile per-packet one-way delay: 220.678 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 263.77 Mbit/s
95th percentile per-packet one-way delay: 189.595 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo-MusesT — Data Link

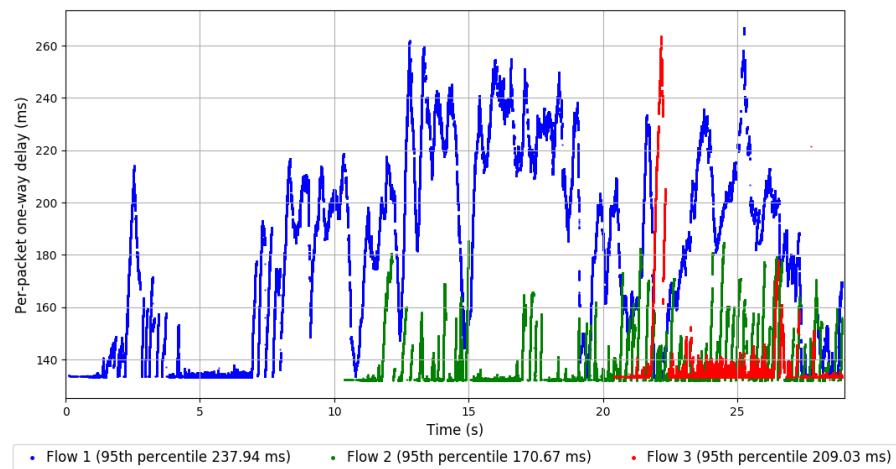
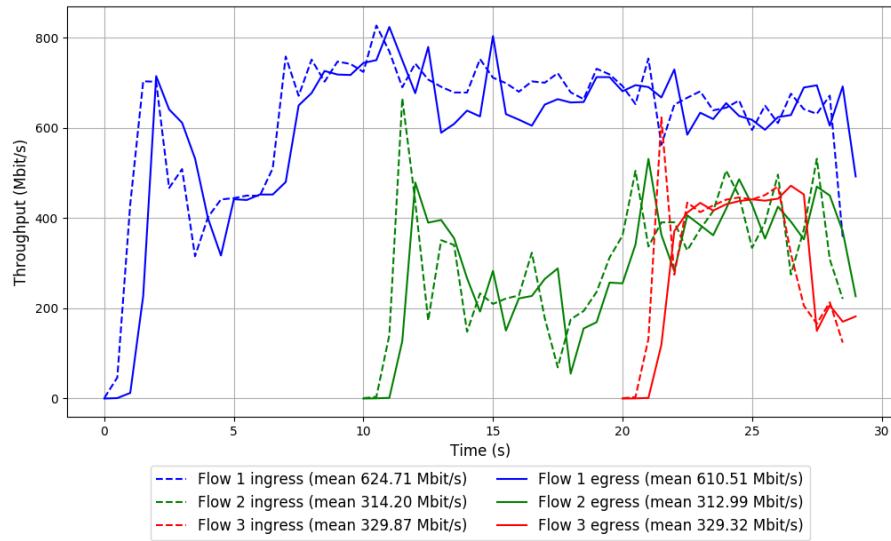


Run 4: Statistics of Indigo-MusesT

```
Start at: 2018-12-12 01:15:23
End at: 2018-12-12 01:15:53
Local clock offset: -0.112 ms
Remote clock offset: -0.077 ms

# Below is generated by plot.py at 2018-12-12 03:50:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 908.82 Mbit/s
95th percentile per-packet one-way delay: 235.149 ms
Loss rate: 1.64%
-- Flow 1:
Average throughput: 610.51 Mbit/s
95th percentile per-packet one-way delay: 237.938 ms
Loss rate: 2.28%
-- Flow 2:
Average throughput: 312.99 Mbit/s
95th percentile per-packet one-way delay: 170.671 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 329.32 Mbit/s
95th percentile per-packet one-way delay: 209.033 ms
Loss rate: 0.17%
```

Run 4: Report of Indigo-MusesT — Data Link

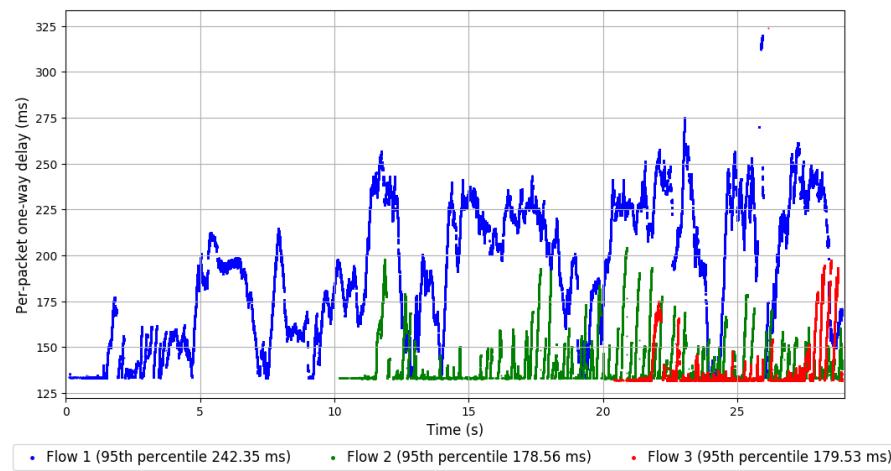
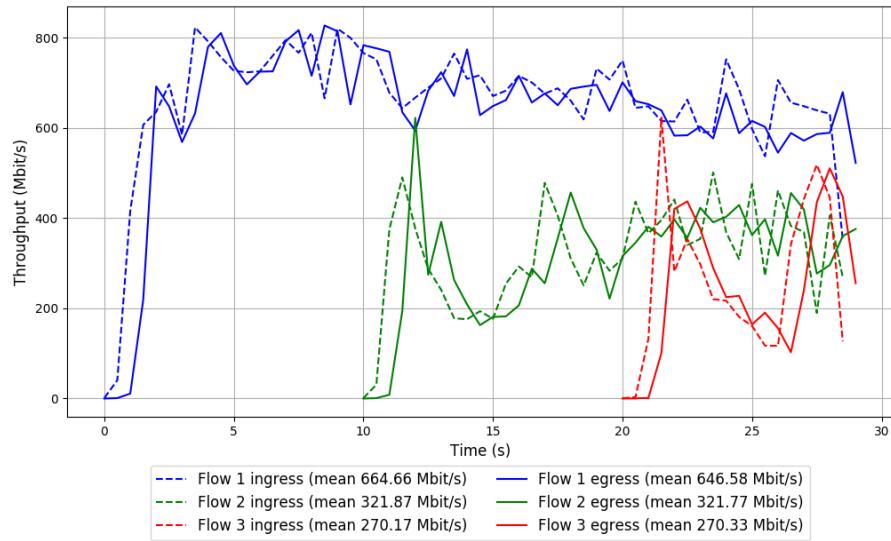


Run 5: Statistics of Indigo-MusesT

```
Start at: 2018-12-12 01:51:39
End at: 2018-12-12 01:52:09
Local clock offset: -0.061 ms
Remote clock offset: -0.086 ms

# Below is generated by plot.py at 2018-12-12 03:54:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 935.60 Mbit/s
95th percentile per-packet one-way delay: 238.439 ms
Loss rate: 1.89%
-- Flow 1:
Average throughput: 646.58 Mbit/s
95th percentile per-packet one-way delay: 242.354 ms
Loss rate: 2.70%
-- Flow 2:
Average throughput: 321.77 Mbit/s
95th percentile per-packet one-way delay: 178.557 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 270.33 Mbit/s
95th percentile per-packet one-way delay: 179.531 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo-MusesT — Data Link

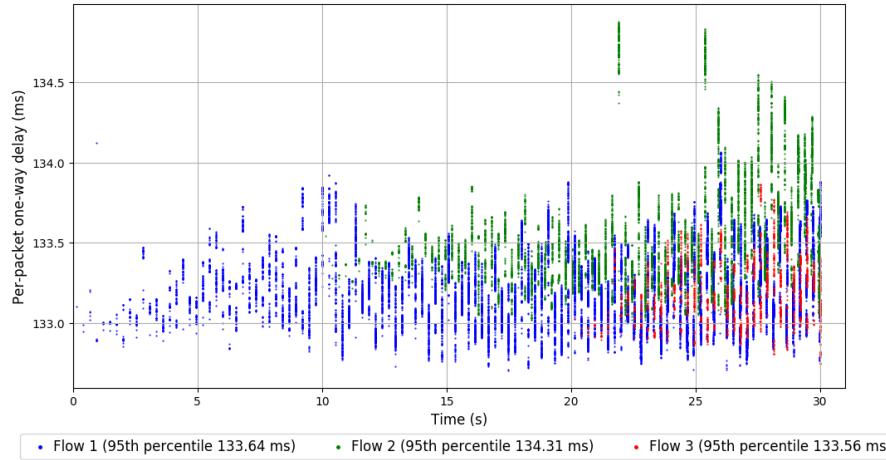
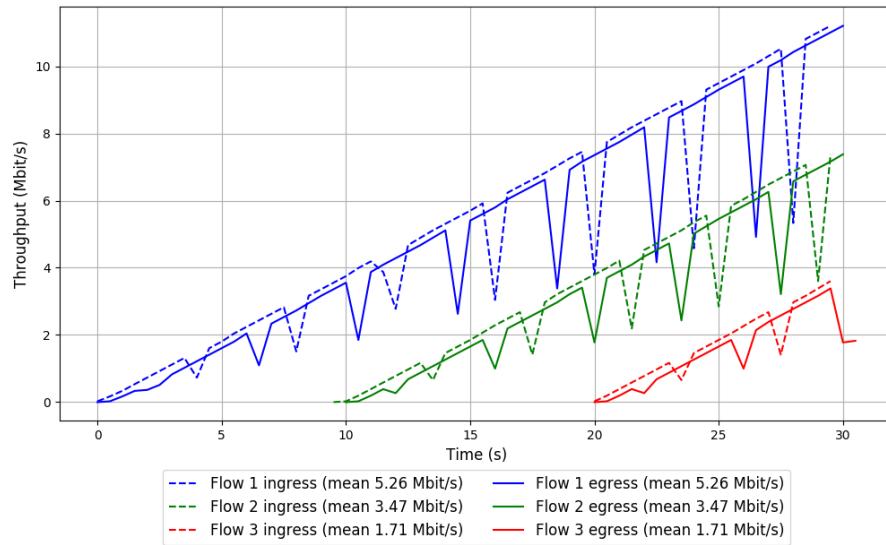


Run 1: Statistics of LEDBAT

```
Start at: 2018-12-11 23:16:55
End at: 2018-12-11 23:17:25
Local clock offset: -0.44 ms
Remote clock offset: -0.046 ms

# Below is generated by plot.py at 2018-12-12 03:54:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.12 Mbit/s
95th percentile per-packet one-way delay: 133.894 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.26 Mbit/s
95th percentile per-packet one-way delay: 133.643 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.47 Mbit/s
95th percentile per-packet one-way delay: 134.310 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.71 Mbit/s
95th percentile per-packet one-way delay: 133.559 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

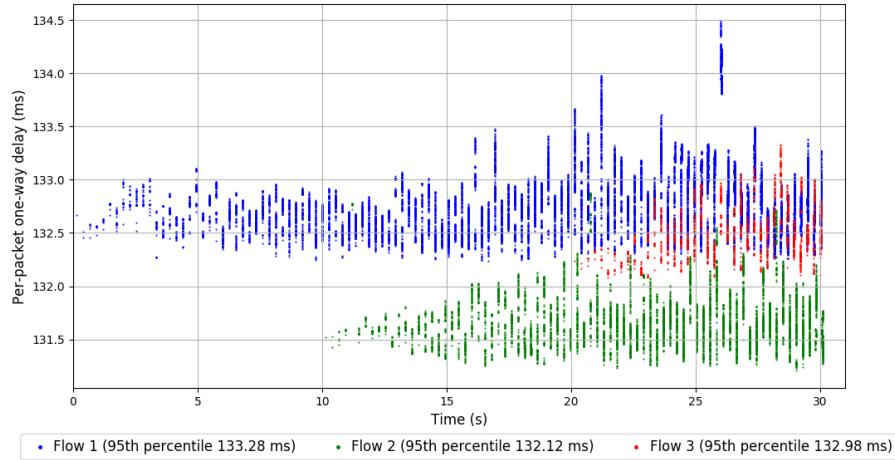
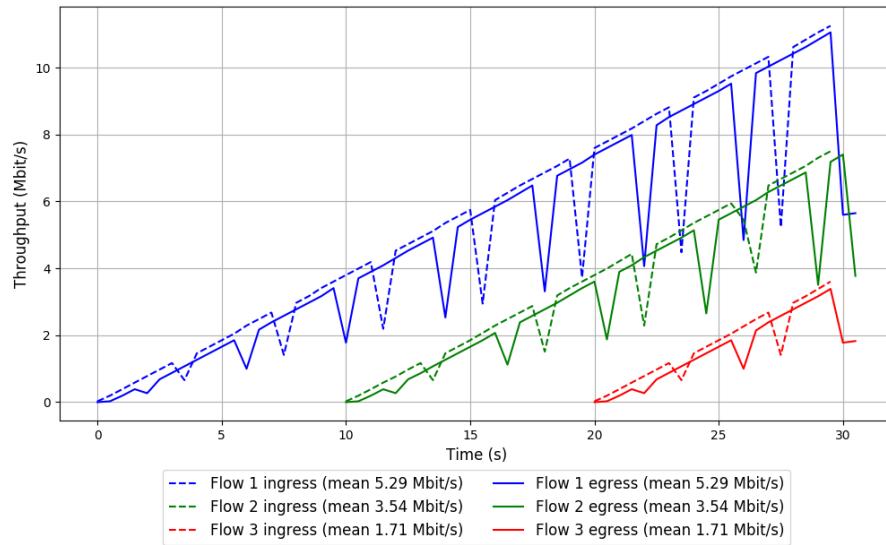


Run 2: Statistics of LEDBAT

```
Start at: 2018-12-11 23:53:04
End at: 2018-12-11 23:53:34
Local clock offset: -0.164 ms
Remote clock offset: -0.375 ms

# Below is generated by plot.py at 2018-12-12 03:54:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.20 Mbit/s
95th percentile per-packet one-way delay: 133.194 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.29 Mbit/s
95th percentile per-packet one-way delay: 133.282 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.54 Mbit/s
95th percentile per-packet one-way delay: 132.116 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.71 Mbit/s
95th percentile per-packet one-way delay: 132.977 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link

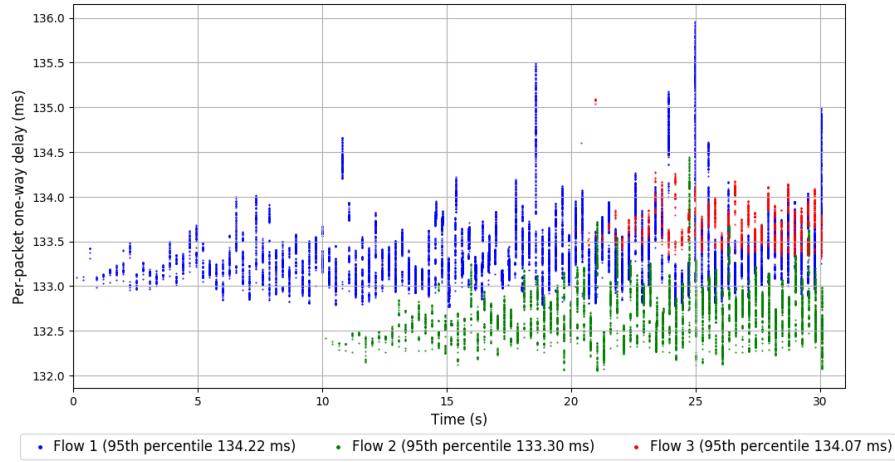
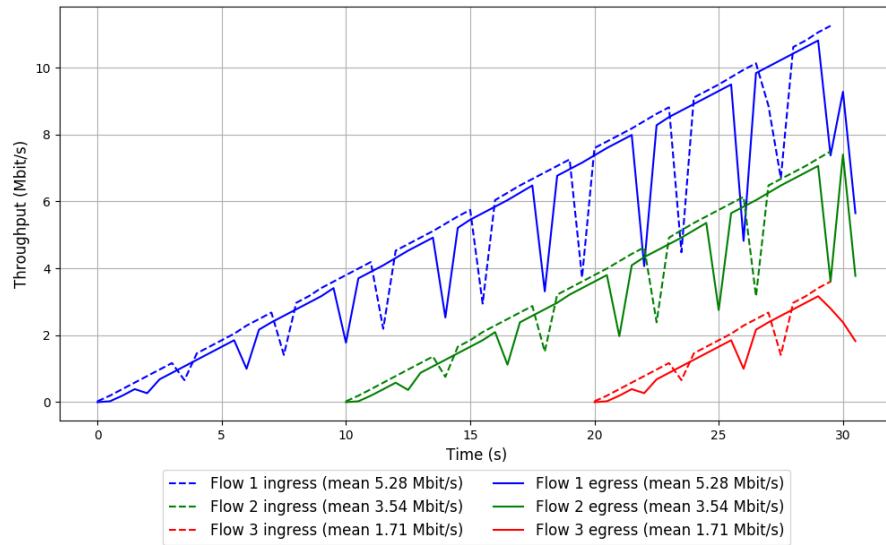


Run 3: Statistics of LEDBAT

```
Start at: 2018-12-12 00:30:04
End at: 2018-12-12 00:30:34
Local clock offset: -0.471 ms
Remote clock offset: -0.203 ms

# Below is generated by plot.py at 2018-12-12 03:54:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.20 Mbit/s
95th percentile per-packet one-way delay: 134.016 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.28 Mbit/s
95th percentile per-packet one-way delay: 134.217 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.54 Mbit/s
95th percentile per-packet one-way delay: 133.303 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.71 Mbit/s
95th percentile per-packet one-way delay: 134.069 ms
Loss rate: 0.00%
```

Run 3: Report of LEDBAT — Data Link

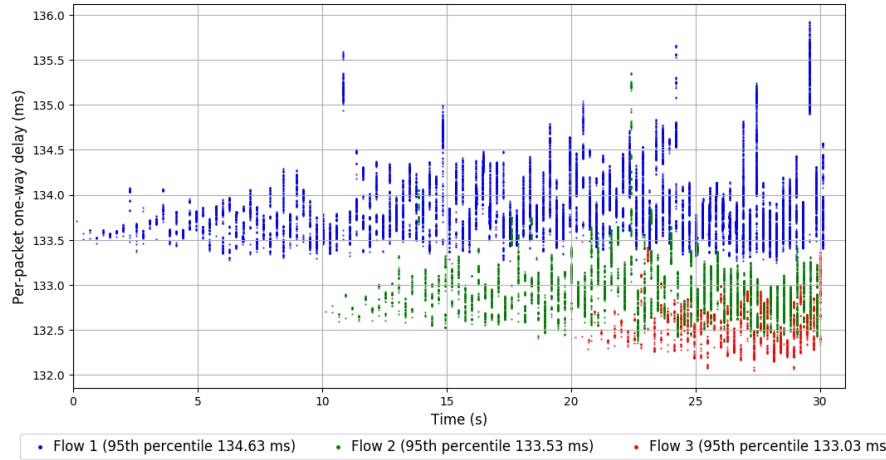
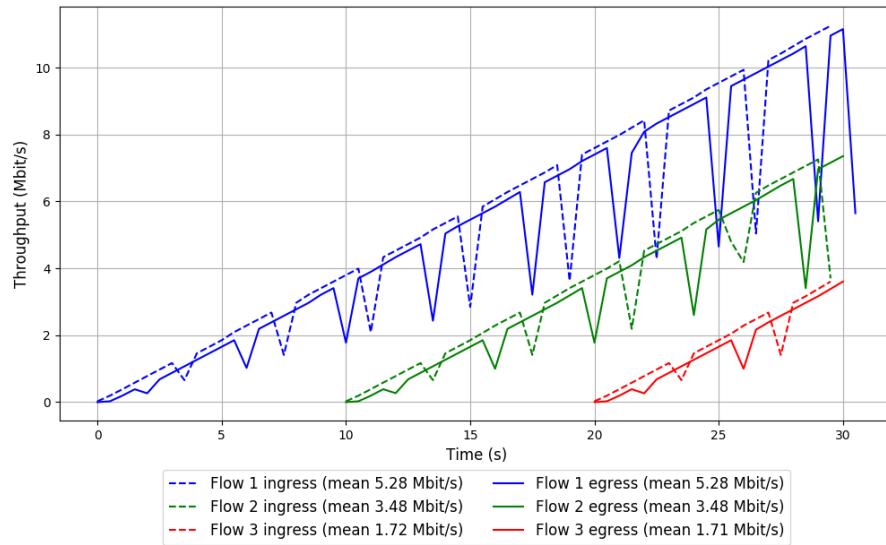


Run 4: Statistics of LEDBAT

```
Start at: 2018-12-12 01:05:50
End at: 2018-12-12 01:06:20
Local clock offset: -0.103 ms
Remote clock offset: -0.207 ms

# Below is generated by plot.py at 2018-12-12 03:54:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.14 Mbit/s
95th percentile per-packet one-way delay: 134.471 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.28 Mbit/s
95th percentile per-packet one-way delay: 134.634 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.48 Mbit/s
95th percentile per-packet one-way delay: 133.533 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.71 Mbit/s
95th percentile per-packet one-way delay: 133.025 ms
Loss rate: 0.00%
```

Run 4: Report of LEDBAT — Data Link

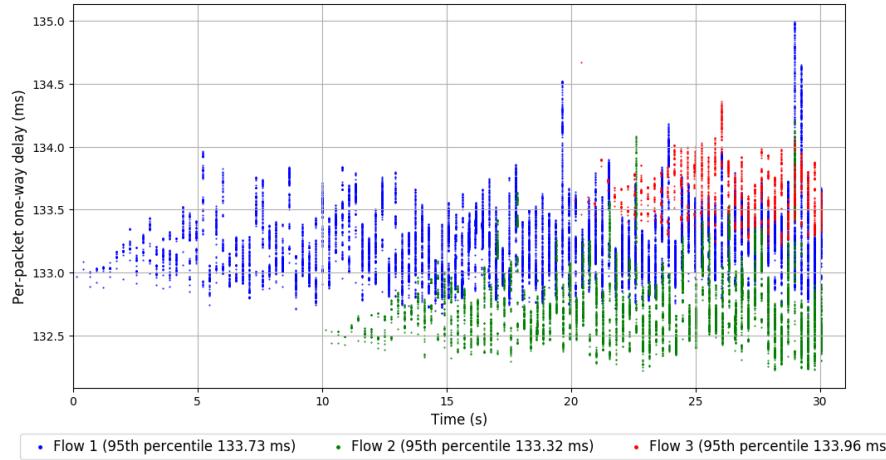
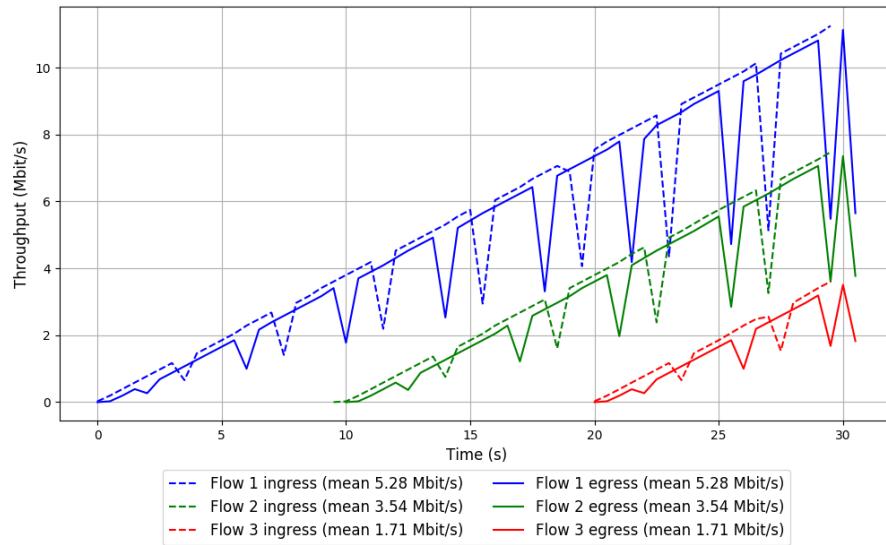


Run 5: Statistics of LEDBAT

```
Start at: 2018-12-12 01:42:20
End at: 2018-12-12 01:42:50
Local clock offset: 0.1 ms
Remote clock offset: -0.053 ms

# Below is generated by plot.py at 2018-12-12 03:54:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.20 Mbit/s
95th percentile per-packet one-way delay: 133.764 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.28 Mbit/s
95th percentile per-packet one-way delay: 133.730 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.54 Mbit/s
95th percentile per-packet one-way delay: 133.317 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.71 Mbit/s
95th percentile per-packet one-way delay: 133.957 ms
Loss rate: 0.00%
```

Run 5: Report of LEDBAT — Data Link

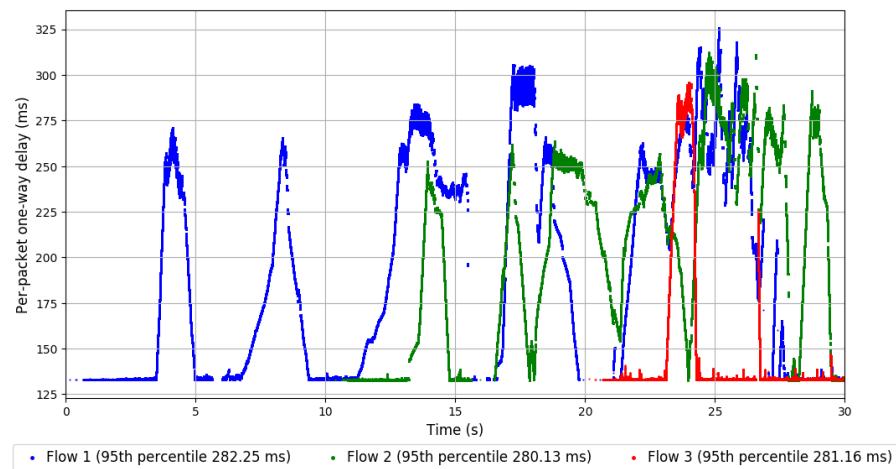
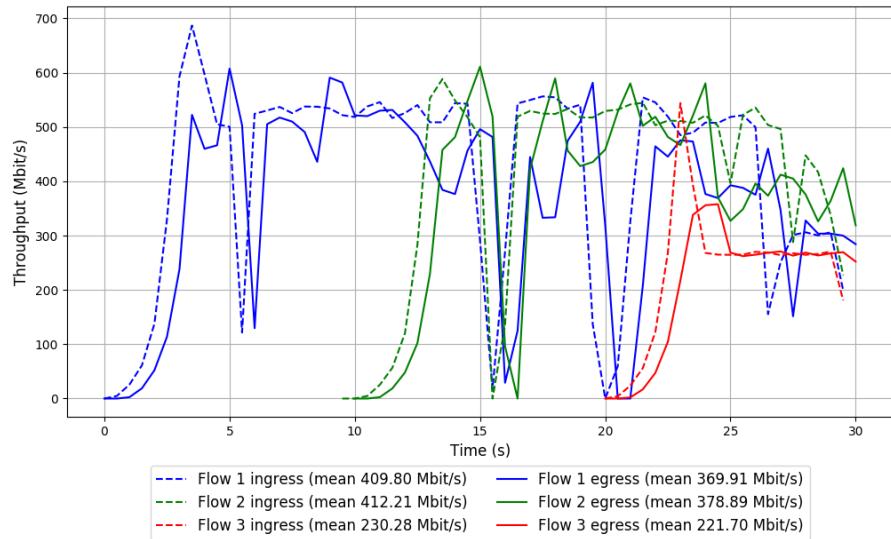


Run 1: Statistics of PCC-Allegro

```
Start at: 2018-12-11 23:20:06
End at: 2018-12-11 23:20:36
Local clock offset: -0.67 ms
Remote clock offset: -0.377 ms

# Below is generated by plot.py at 2018-12-12 04:07:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 694.99 Mbit/s
95th percentile per-packet one-way delay: 281.156 ms
Loss rate: 8.54%
-- Flow 1:
Average throughput: 369.91 Mbit/s
95th percentile per-packet one-way delay: 282.250 ms
Loss rate: 9.74%
-- Flow 2:
Average throughput: 378.89 Mbit/s
95th percentile per-packet one-way delay: 280.131 ms
Loss rate: 8.08%
-- Flow 3:
Average throughput: 221.70 Mbit/s
95th percentile per-packet one-way delay: 281.157 ms
Loss rate: 3.73%
```

Run 1: Report of PCC-Allegro — Data Link

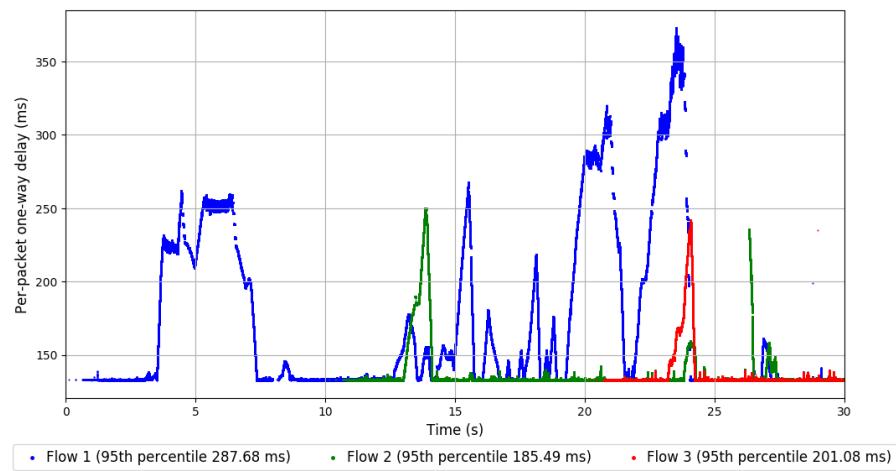
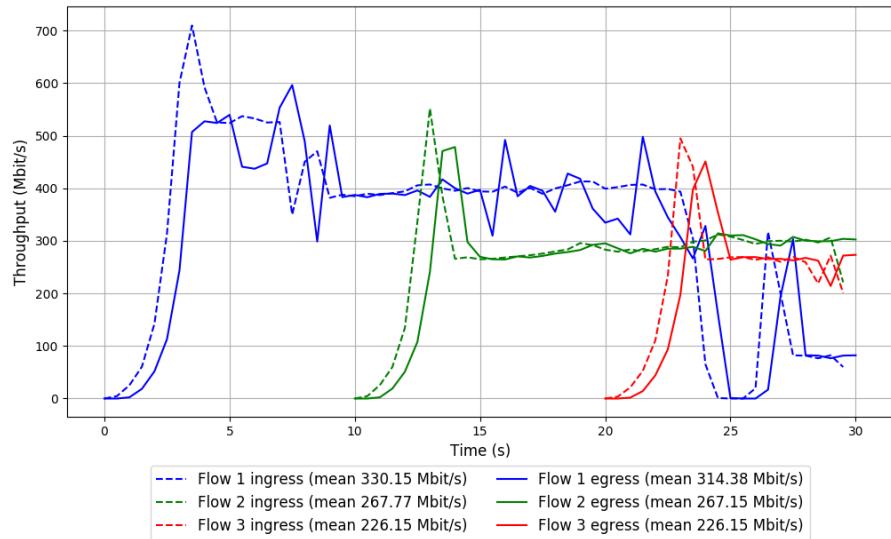


Run 2: Statistics of PCC-Allegro

```
Start at: 2018-12-11 23:56:04
End at: 2018-12-11 23:56:34
Local clock offset: -0.604 ms
Remote clock offset: -0.035 ms

# Below is generated by plot.py at 2018-12-12 04:07:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 566.30 Mbit/s
95th percentile per-packet one-way delay: 258.014 ms
Loss rate: 2.78%
-- Flow 1:
Average throughput: 314.38 Mbit/s
95th percentile per-packet one-way delay: 287.678 ms
Loss rate: 4.78%
-- Flow 2:
Average throughput: 267.15 Mbit/s
95th percentile per-packet one-way delay: 185.485 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 226.15 Mbit/s
95th percentile per-packet one-way delay: 201.081 ms
Loss rate: 0.00%
```

Run 2: Report of PCC-Allegro — Data Link

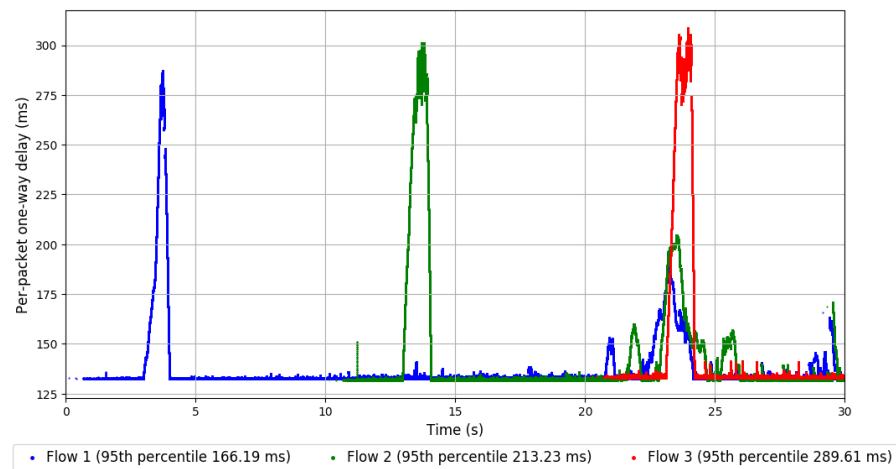
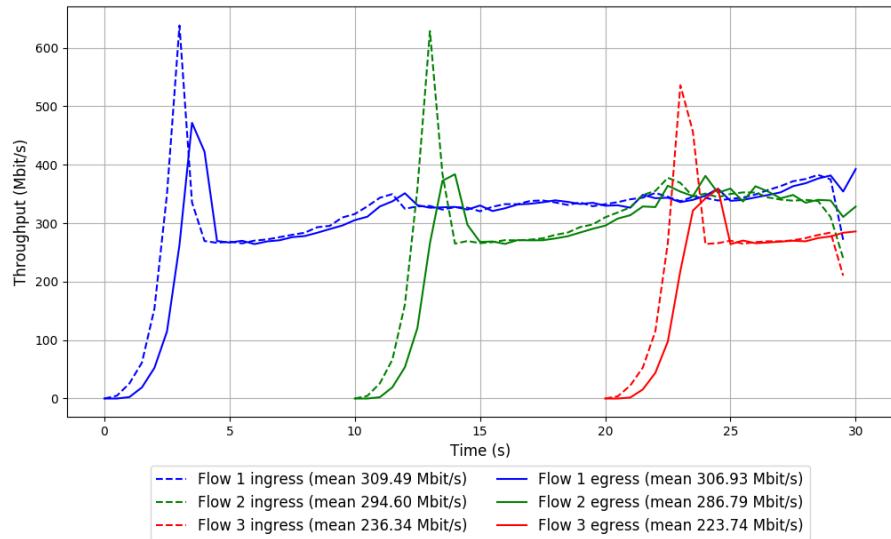


Run 3: Statistics of PCC-Allegro

```
Start at: 2018-12-12 00:33:12
End at: 2018-12-12 00:33:42
Local clock offset: -0.374 ms
Remote clock offset: -0.589 ms

# Below is generated by plot.py at 2018-12-12 04:07:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 571.11 Mbit/s
95th percentile per-packet one-way delay: 199.158 ms
Loss rate: 2.04%
-- Flow 1:
Average throughput: 306.93 Mbit/s
95th percentile per-packet one-way delay: 166.188 ms
Loss rate: 0.82%
-- Flow 2:
Average throughput: 286.79 Mbit/s
95th percentile per-packet one-way delay: 213.227 ms
Loss rate: 2.65%
-- Flow 3:
Average throughput: 223.74 Mbit/s
95th percentile per-packet one-way delay: 289.612 ms
Loss rate: 5.33%
```

Run 3: Report of PCC-Allegro — Data Link

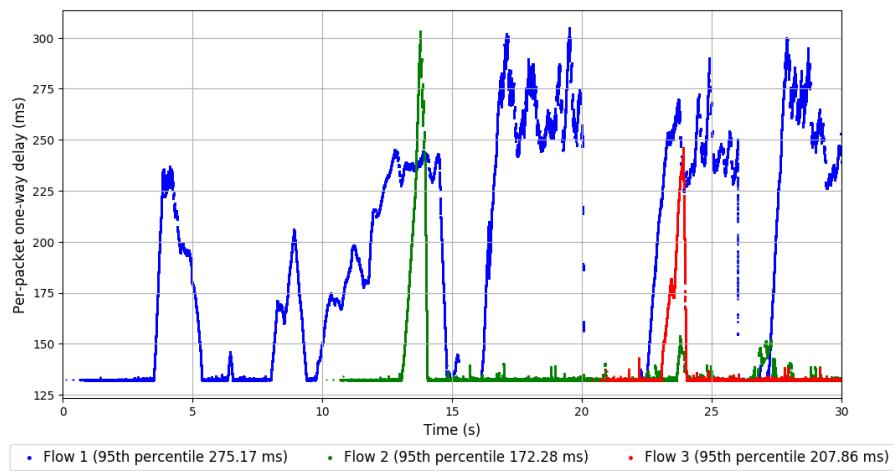
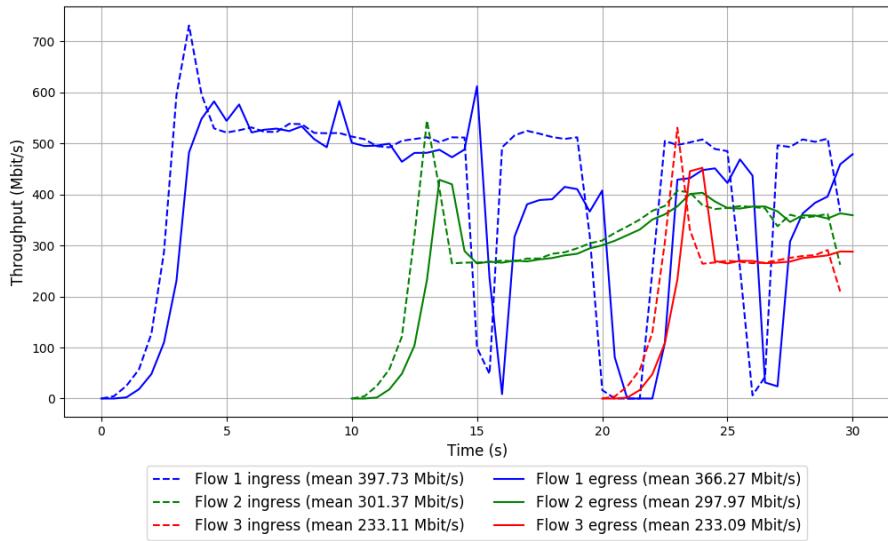


Run 4: Statistics of PCC-Allegro

```
Start at: 2018-12-12 01:09:04
End at: 2018-12-12 01:09:34
Local clock offset: 0.143 ms
Remote clock offset: -0.114 ms

# Below is generated by plot.py at 2018-12-12 04:07:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 641.10 Mbit/s
95th percentile per-packet one-way delay: 267.867 ms
Loss rate: 4.99%
-- Flow 1:
Average throughput: 366.27 Mbit/s
95th percentile per-packet one-way delay: 275.171 ms
Loss rate: 7.89%
-- Flow 2:
Average throughput: 297.97 Mbit/s
95th percentile per-packet one-way delay: 172.282 ms
Loss rate: 1.13%
-- Flow 3:
Average throughput: 233.09 Mbit/s
95th percentile per-packet one-way delay: 207.858 ms
Loss rate: 0.00%
```

Run 4: Report of PCC-Allegro — Data Link

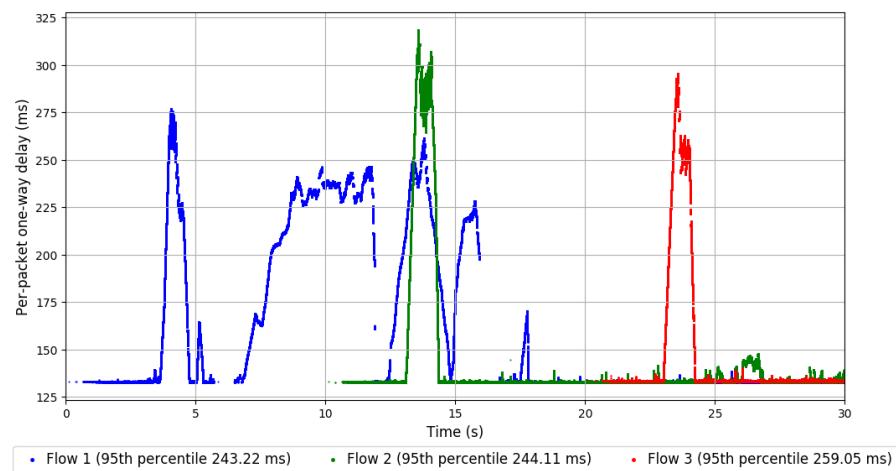
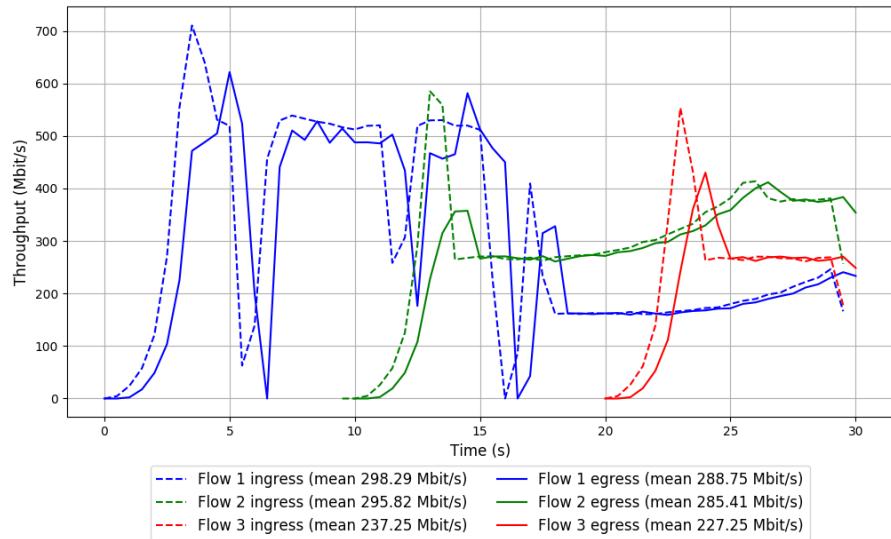


Run 5: Statistics of PCC-Allegro

```
Start at: 2018-12-12 01:45:26
End at: 2018-12-12 01:45:56
Local clock offset: -0.034 ms
Remote clock offset: -0.083 ms

# Below is generated by plot.py at 2018-12-12 04:07:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 553.50 Mbit/s
95th percentile per-packet one-way delay: 245.642 ms
Loss rate: 3.44%
-- Flow 1:
Average throughput: 288.75 Mbit/s
95th percentile per-packet one-way delay: 243.224 ms
Loss rate: 3.20%
-- Flow 2:
Average throughput: 285.41 Mbit/s
95th percentile per-packet one-way delay: 244.110 ms
Loss rate: 3.50%
-- Flow 3:
Average throughput: 227.25 Mbit/s
95th percentile per-packet one-way delay: 259.053 ms
Loss rate: 4.22%
```

Run 5: Report of PCC-Allegro — Data Link

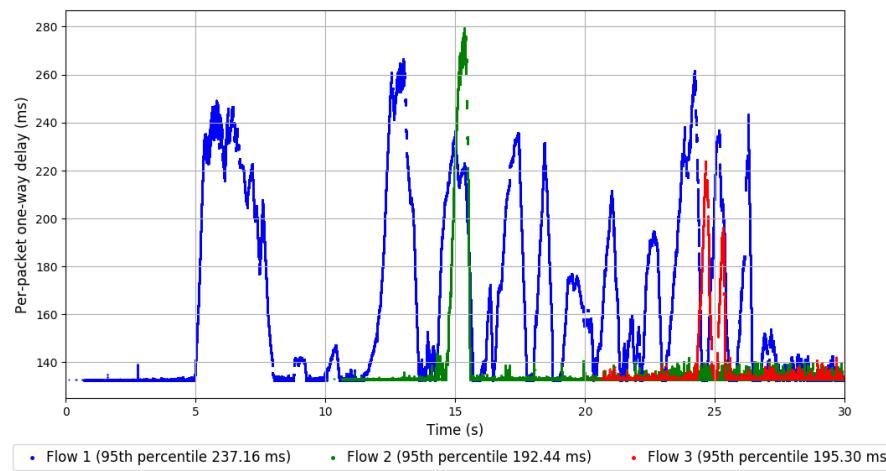
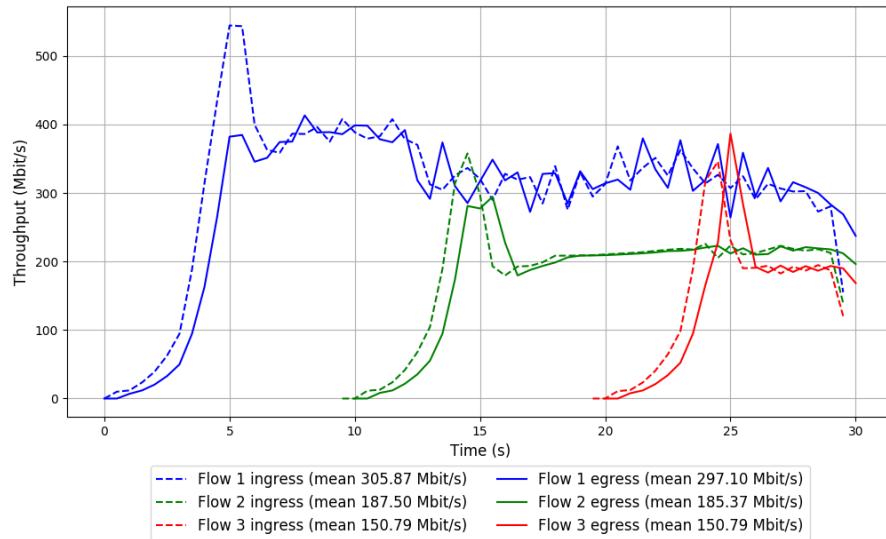


Run 1: Statistics of PCC-Expr

```
Start at: 2018-12-11 23:24:27
End at: 2018-12-11 23:24:57
Local clock offset: -0.465 ms
Remote clock offset: -0.045 ms

# Below is generated by plot.py at 2018-12-12 04:07:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 470.41 Mbit/s
95th percentile per-packet one-way delay: 234.151 ms
Loss rate: 2.15%
-- Flow 1:
Average throughput: 297.10 Mbit/s
95th percentile per-packet one-way delay: 237.156 ms
Loss rate: 2.92%
-- Flow 2:
Average throughput: 185.37 Mbit/s
95th percentile per-packet one-way delay: 192.439 ms
Loss rate: 1.13%
-- Flow 3:
Average throughput: 150.79 Mbit/s
95th percentile per-packet one-way delay: 195.298 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Expr — Data Link

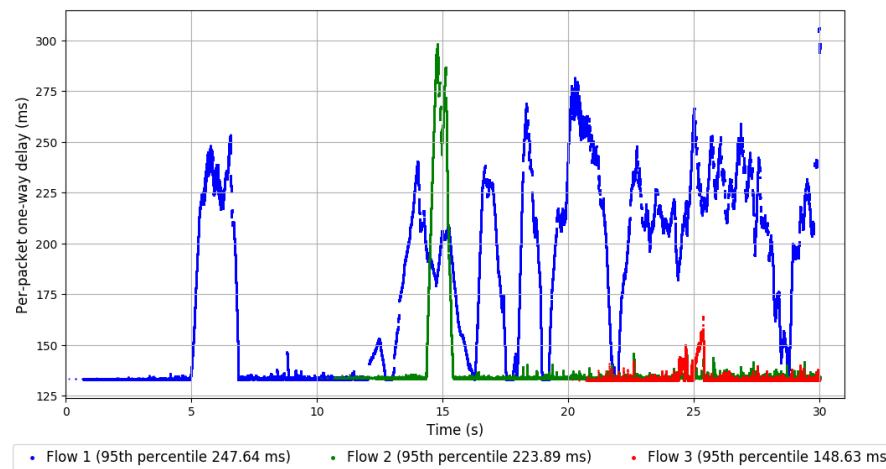
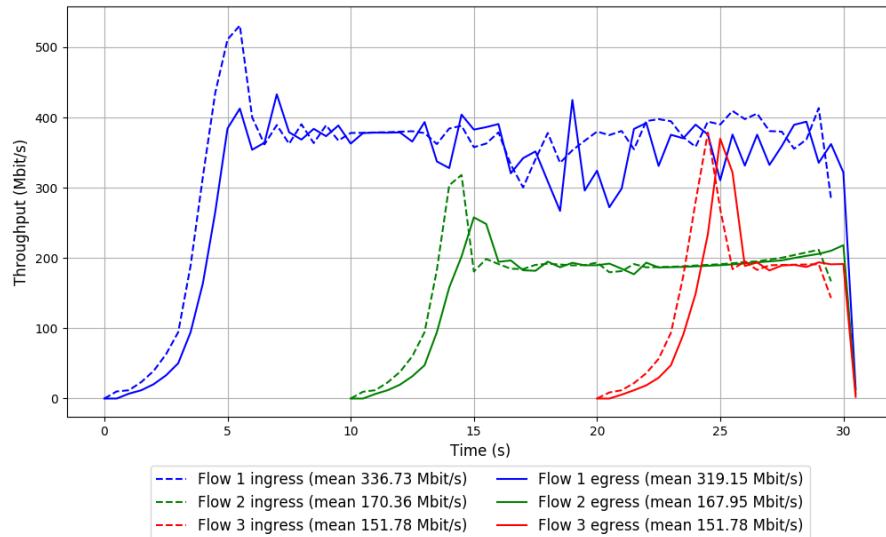


Run 2: Statistics of PCC-Expr

```
Start at: 2018-12-12 00:00:42
End at: 2018-12-12 00:01:12
Local clock offset: -0.859 ms
Remote clock offset: -0.087 ms

# Below is generated by plot.py at 2018-12-12 04:09:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 480.81 Mbit/s
95th percentile per-packet one-way delay: 244.876 ms
Loss rate: 3.83%
-- Flow 1:
Average throughput: 319.15 Mbit/s
95th percentile per-packet one-way delay: 247.642 ms
Loss rate: 5.21%
-- Flow 2:
Average throughput: 167.95 Mbit/s
95th percentile per-packet one-way delay: 223.890 ms
Loss rate: 1.41%
-- Flow 3:
Average throughput: 151.78 Mbit/s
95th percentile per-packet one-way delay: 148.630 ms
Loss rate: 0.00%
```

Run 2: Report of PCC-Expr — Data Link

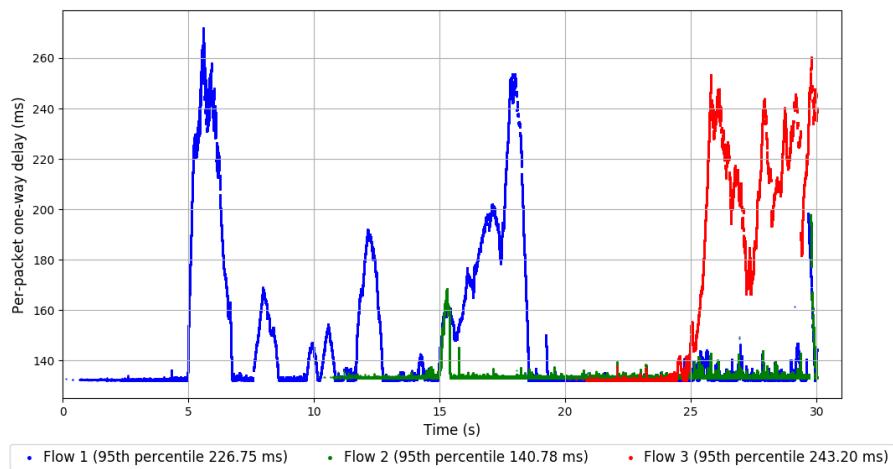
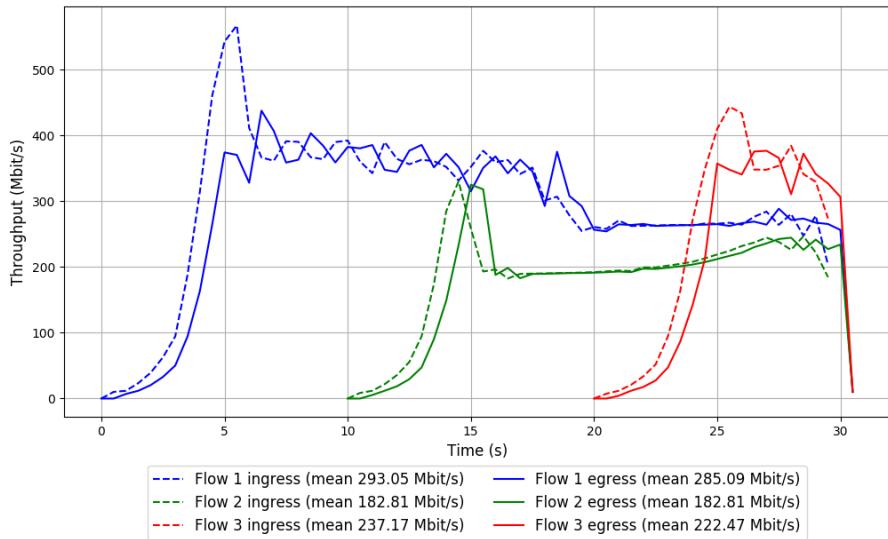


Run 3: Statistics of PCC-Expr

```
Start at: 2018-12-12 00:37:32
End at: 2018-12-12 00:38:02
Local clock offset: -0.001 ms
Remote clock offset: -0.208 ms

# Below is generated by plot.py at 2018-12-12 04:13:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 479.89 Mbit/s
95th percentile per-packet one-way delay: 233.579 ms
Loss rate: 2.59%
-- Flow 1:
Average throughput: 285.09 Mbit/s
95th percentile per-packet one-way delay: 226.753 ms
Loss rate: 2.71%
-- Flow 2:
Average throughput: 182.81 Mbit/s
95th percentile per-packet one-way delay: 140.777 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 222.47 Mbit/s
95th percentile per-packet one-way delay: 243.198 ms
Loss rate: 6.19%
```

Run 3: Report of PCC-Expr — Data Link

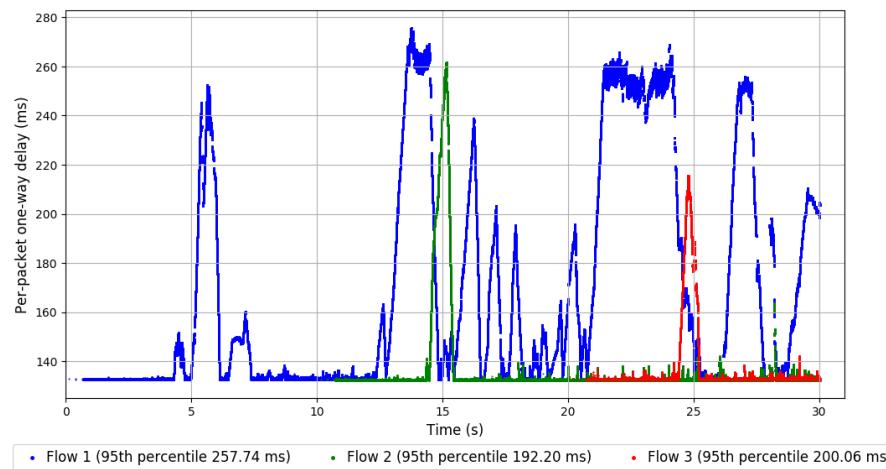
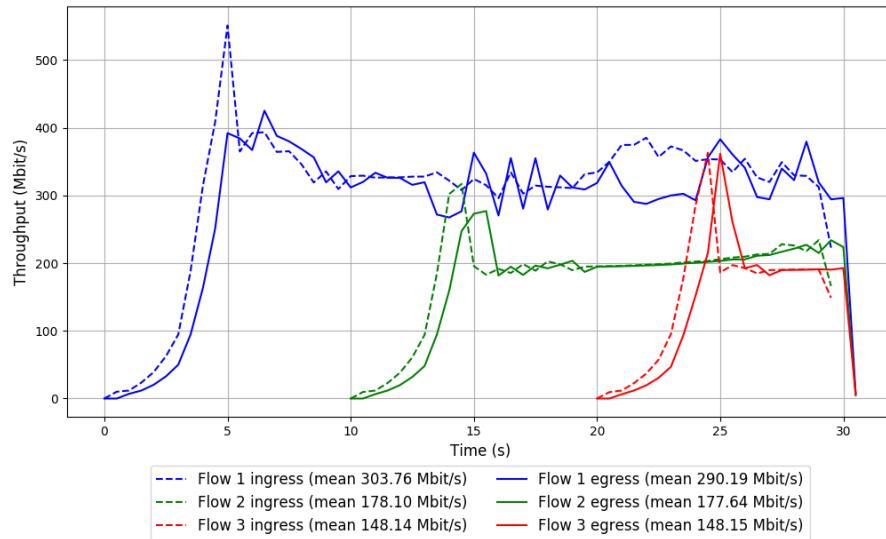


Run 4: Statistics of PCC-Expr

```
Start at: 2018-12-12 01:13:13
End at: 2018-12-12 01:13:43
Local clock offset: 0.34 ms
Remote clock offset: -0.464 ms

# Below is generated by plot.py at 2018-12-12 04:17:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 457.18 Mbit/s
95th percentile per-packet one-way delay: 254.466 ms
Loss rate: 2.95%
-- Flow 1:
Average throughput: 290.19 Mbit/s
95th percentile per-packet one-way delay: 257.735 ms
Loss rate: 4.47%
-- Flow 2:
Average throughput: 177.64 Mbit/s
95th percentile per-packet one-way delay: 192.200 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 148.15 Mbit/s
95th percentile per-packet one-way delay: 200.063 ms
Loss rate: 0.00%
```

Run 4: Report of PCC-Expr — Data Link

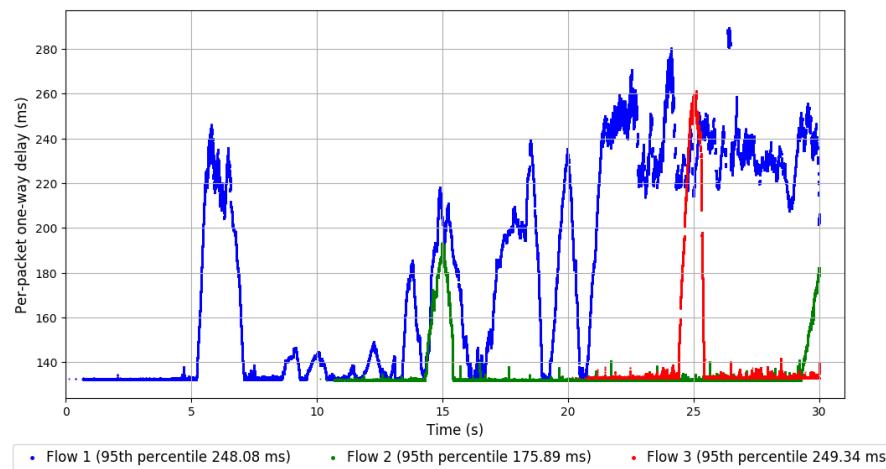
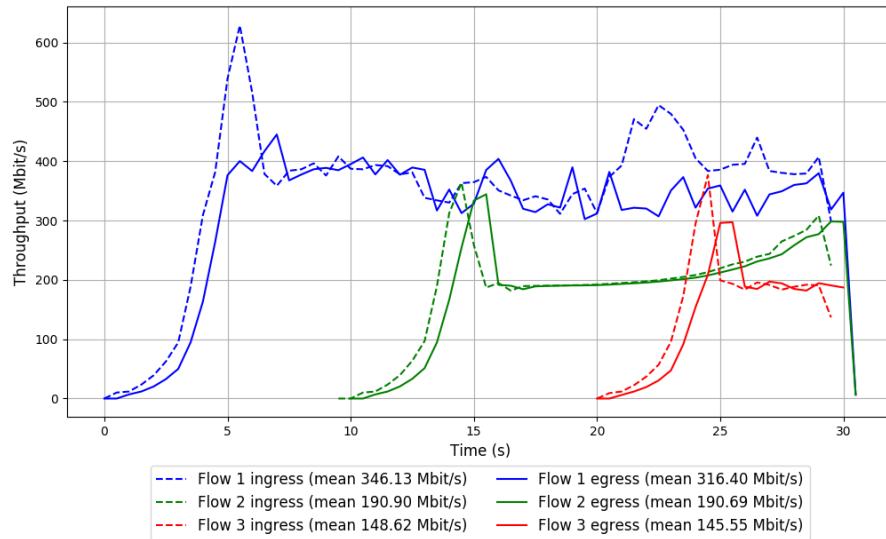


Run 5: Statistics of PCC-Expr

```
Start at: 2018-12-12 01:49:26
End at: 2018-12-12 01:49:56
Local clock offset: -0.104 ms
Remote clock offset: -0.12 ms

# Below is generated by plot.py at 2018-12-12 04:20:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 491.21 Mbit/s
95th percentile per-packet one-way delay: 245.364 ms
Loss rate: 5.95%
-- Flow 1:
Average throughput: 316.40 Mbit/s
95th percentile per-packet one-way delay: 248.081 ms
Loss rate: 8.61%
-- Flow 2:
Average throughput: 190.69 Mbit/s
95th percentile per-packet one-way delay: 175.889 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 145.55 Mbit/s
95th percentile per-packet one-way delay: 249.339 ms
Loss rate: 2.26%
```

Run 5: Report of PCC-Expr — Data Link

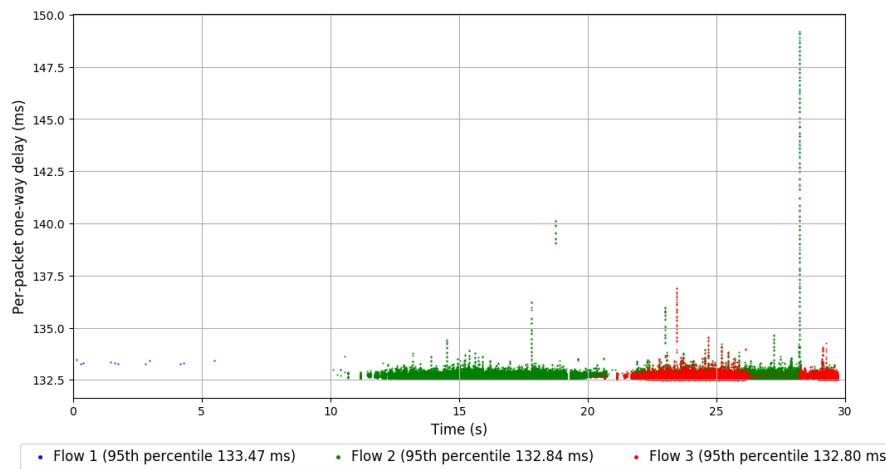
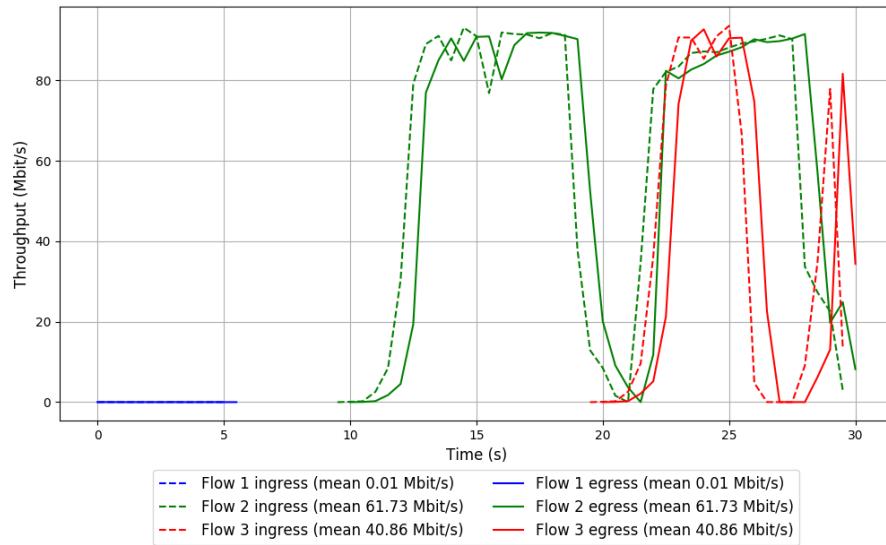


Run 1: Statistics of QUIC Cubic

```
Start at: 2018-12-11 23:40:13
End at: 2018-12-11 23:40:43
Local clock offset: -0.352 ms
Remote clock offset: -0.001 ms

# Below is generated by plot.py at 2018-12-12 04:20:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 54.20 Mbit/s
95th percentile per-packet one-way delay: 132.834 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 133.468 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 61.73 Mbit/s
95th percentile per-packet one-way delay: 132.843 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 40.86 Mbit/s
95th percentile per-packet one-way delay: 132.796 ms
Loss rate: 0.00%
```

Run 1: Report of QUIC Cubic — Data Link

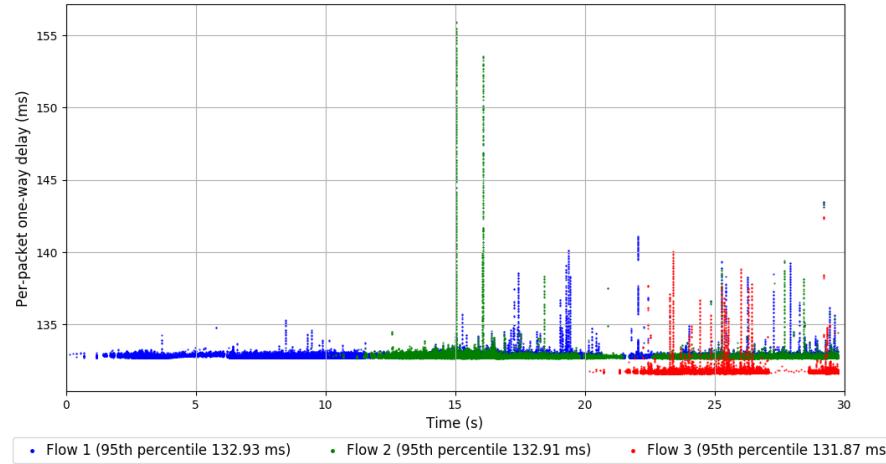
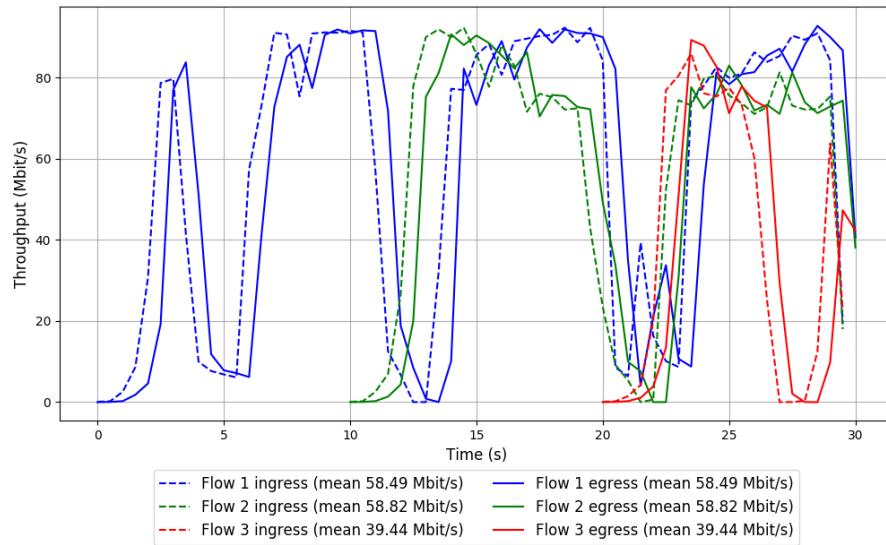


Run 2: Statistics of QUIC Cubic

```
Start at: 2018-12-12 00:16:26
End at: 2018-12-12 00:16:56
Local clock offset: -0.279 ms
Remote clock offset: -0.11 ms

# Below is generated by plot.py at 2018-12-12 04:20:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 110.19 Mbit/s
95th percentile per-packet one-way delay: 132.916 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 58.49 Mbit/s
95th percentile per-packet one-way delay: 132.929 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 58.82 Mbit/s
95th percentile per-packet one-way delay: 132.915 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 39.44 Mbit/s
95th percentile per-packet one-way delay: 131.871 ms
Loss rate: 0.00%
```

Run 2: Report of QUIC Cubic — Data Link

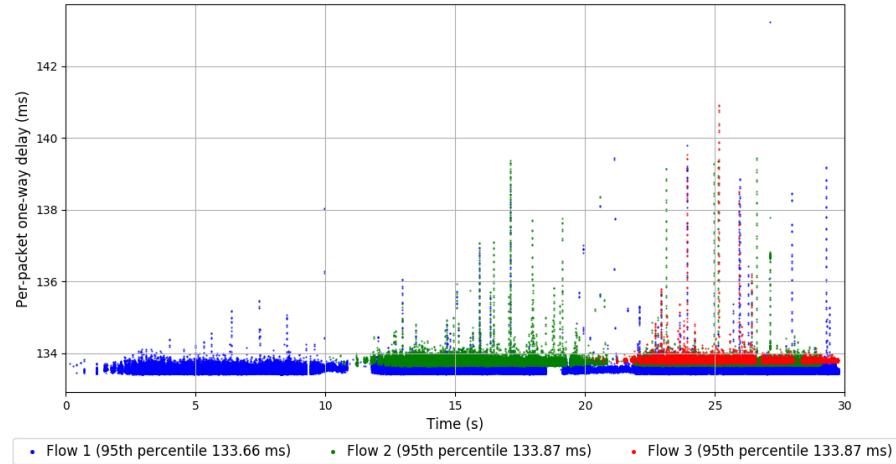
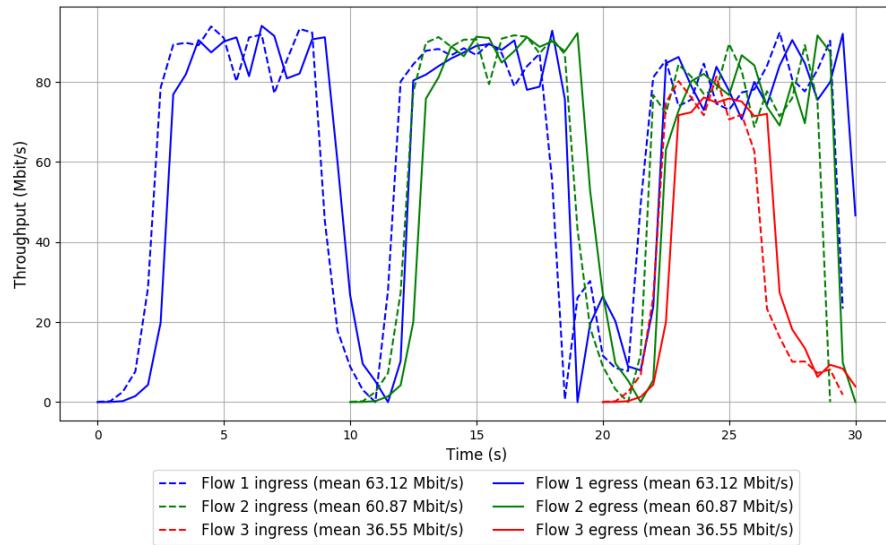


Run 3: Statistics of QUIC Cubic

```
Start at: 2018-12-12 00:52:38
End at: 2018-12-12 00:53:08
Local clock offset: -0.024 ms
Remote clock offset: 0.141 ms

# Below is generated by plot.py at 2018-12-12 04:20:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 114.98 Mbit/s
95th percentile per-packet one-way delay: 133.822 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 63.12 Mbit/s
95th percentile per-packet one-way delay: 133.661 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 60.87 Mbit/s
95th percentile per-packet one-way delay: 133.867 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 36.55 Mbit/s
95th percentile per-packet one-way delay: 133.873 ms
Loss rate: 0.00%
```

Run 3: Report of QUIC Cubic — Data Link

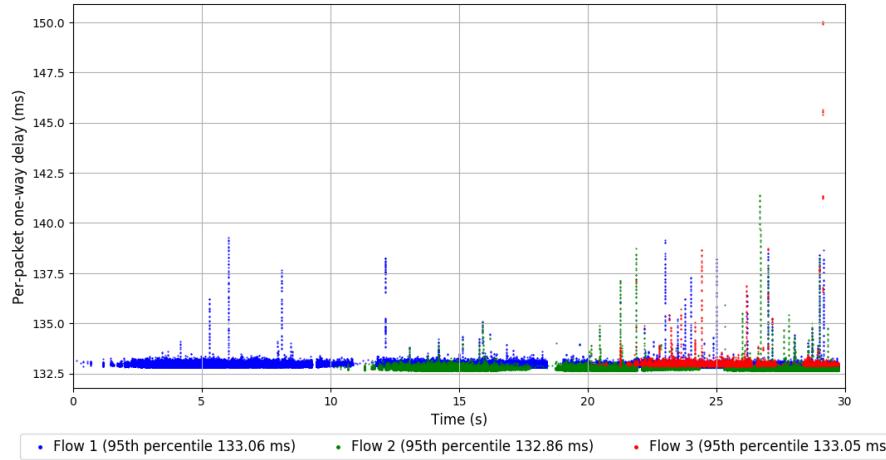
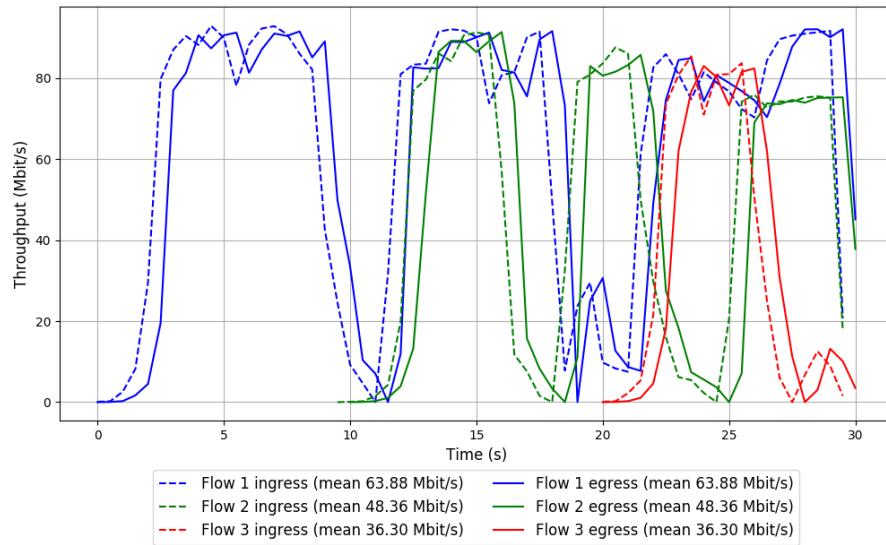


Run 4: Statistics of QUIC Cubic

```
Start at: 2018-12-12 01:28:38
End at: 2018-12-12 01:29:08
Local clock offset: 0.332 ms
Remote clock offset: -0.075 ms

# Below is generated by plot.py at 2018-12-12 04:20:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 107.70 Mbit/s
95th percentile per-packet one-way delay: 133.035 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 63.88 Mbit/s
95th percentile per-packet one-way delay: 133.057 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 48.36 Mbit/s
95th percentile per-packet one-way delay: 132.860 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 36.30 Mbit/s
95th percentile per-packet one-way delay: 133.046 ms
Loss rate: 0.00%
```

Run 4: Report of QUIC Cubic — Data Link

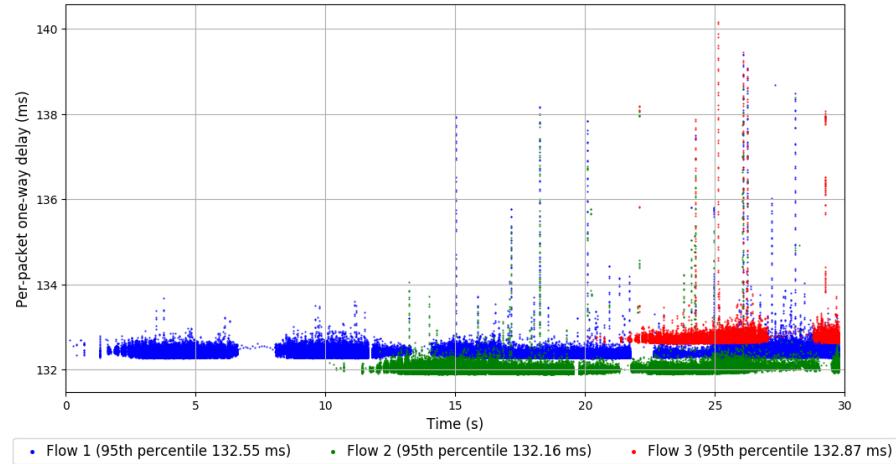
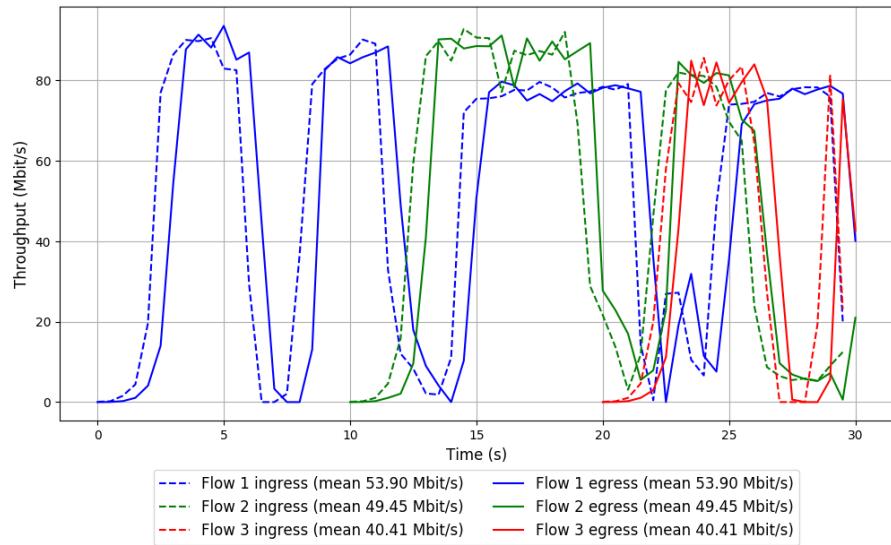


Run 5: Statistics of QUIC Cubic

```
Start at: 2018-12-12 02:05:03
End at: 2018-12-12 02:05:33
Local clock offset: 0.393 ms
Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2018-12-12 04:20:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 99.74 Mbit/s
95th percentile per-packet one-way delay: 132.730 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 53.90 Mbit/s
95th percentile per-packet one-way delay: 132.552 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 49.45 Mbit/s
95th percentile per-packet one-way delay: 132.155 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 40.41 Mbit/s
95th percentile per-packet one-way delay: 132.868 ms
Loss rate: 0.00%
```

Run 5: Report of QUIC Cubic — Data Link

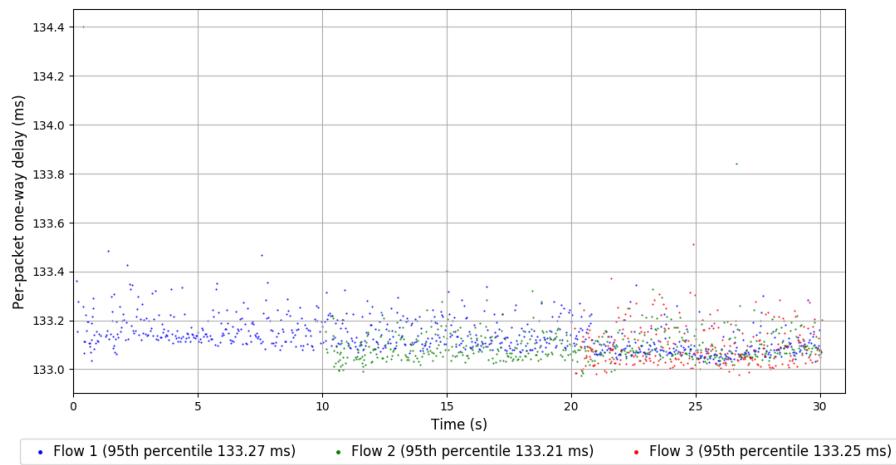
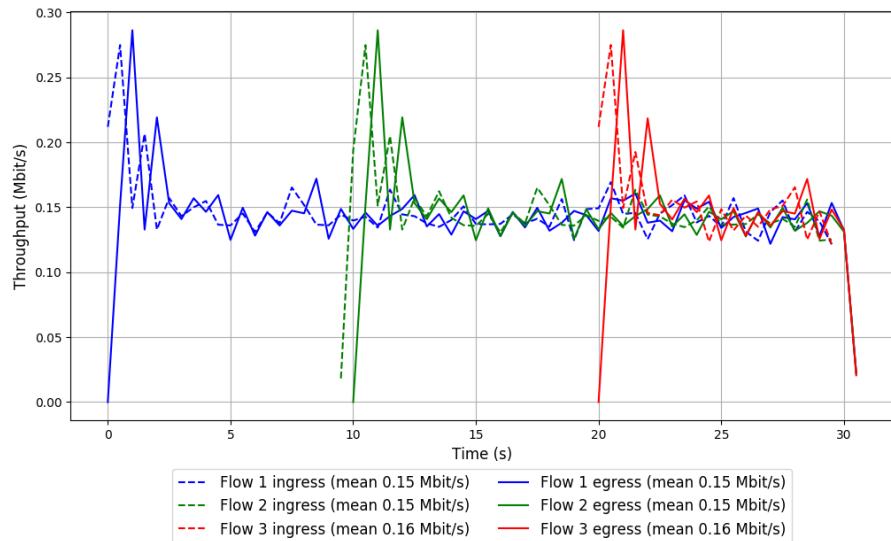


Run 1: Statistics of SCReAM

```
Start at: 2018-12-11 23:33:04
End at: 2018-12-11 23:33:34
Local clock offset: -0.593 ms
Remote clock offset: -0.019 ms

# Below is generated by plot.py at 2018-12-12 04:20:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 133.248 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 133.267 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 133.205 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 133.251 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link

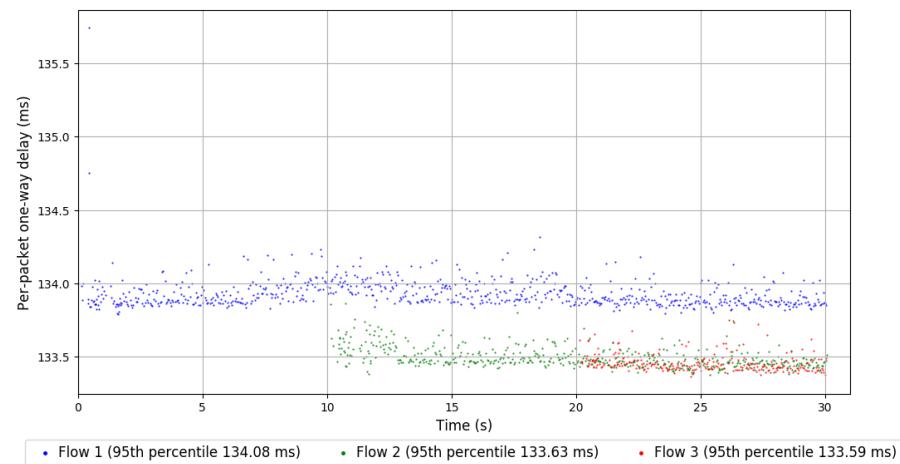
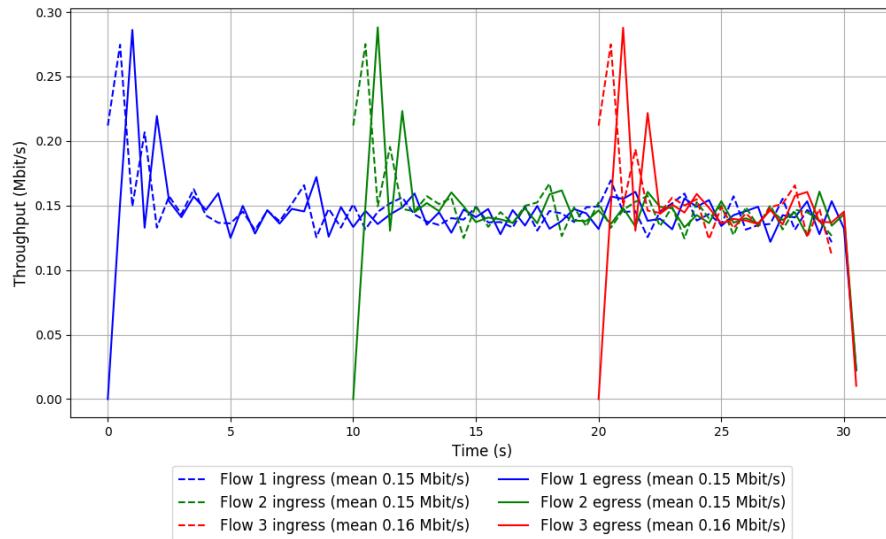


Run 2: Statistics of SCReAM

```
Start at: 2018-12-12 00:09:08
End at: 2018-12-12 00:09:38
Local clock offset: -0.643 ms
Remote clock offset: 0.269 ms

# Below is generated by plot.py at 2018-12-12 04:20:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 134.032 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 134.077 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 133.635 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 133.591 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link

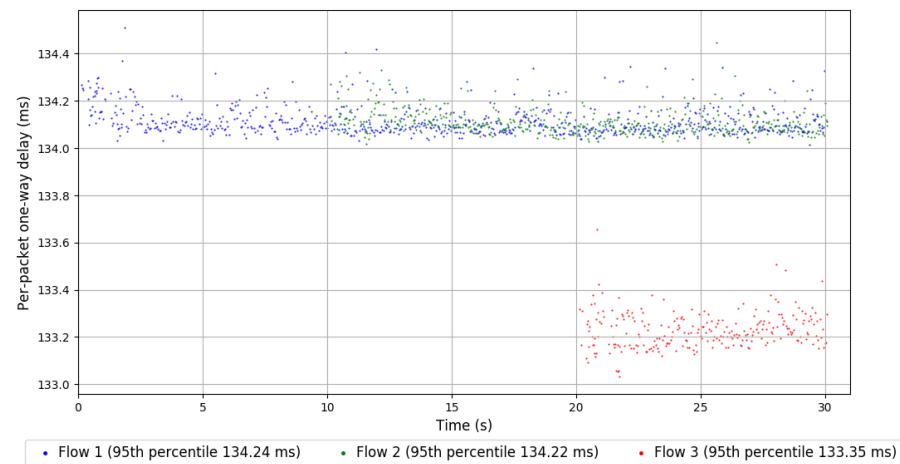
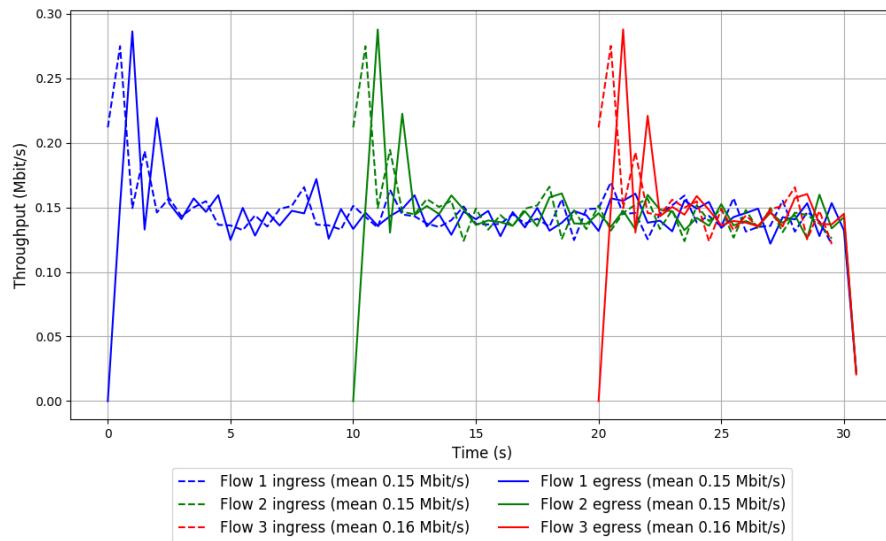


Run 3: Statistics of SCReAM

```
Start at: 2018-12-12 00:46:10
End at: 2018-12-12 00:46:40
Local clock offset: -0.292 ms
Remote clock offset: 0.128 ms

# Below is generated by plot.py at 2018-12-12 04:20:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 134.223 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 134.238 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 134.224 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 133.348 ms
Loss rate: 0.00%
```

Run 3: Report of SCReAM — Data Link

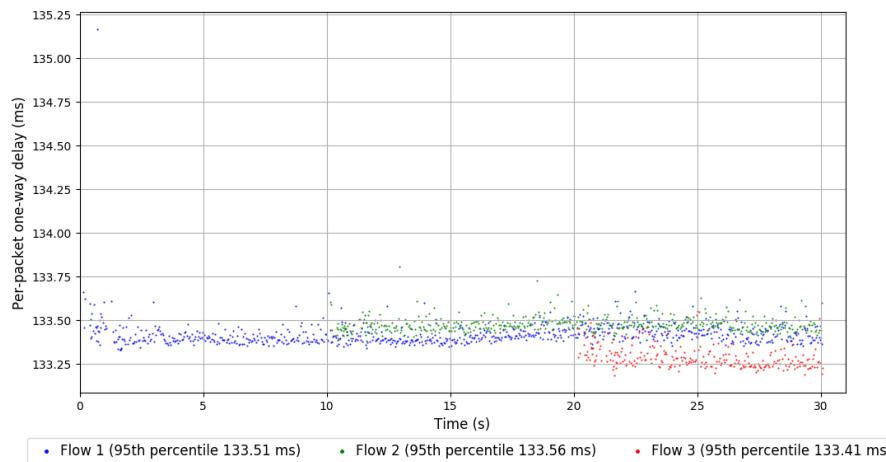
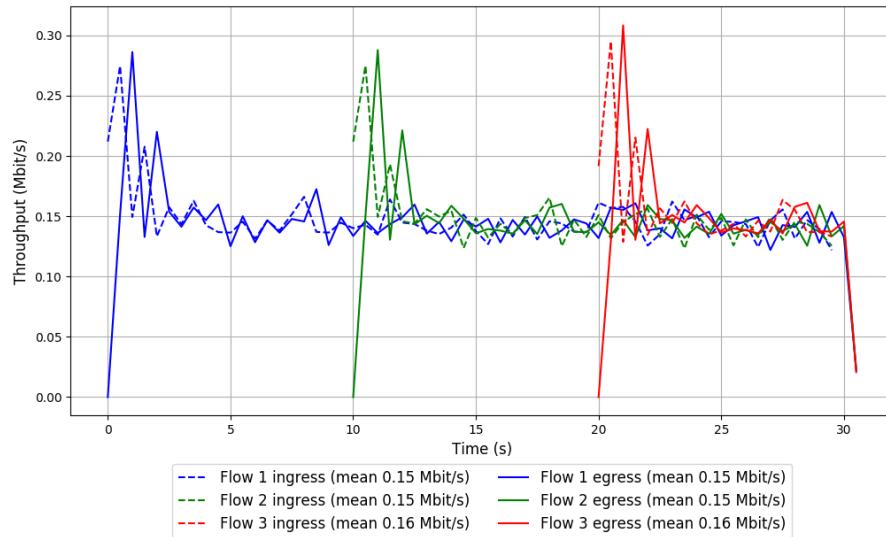


Run 4: Statistics of SCReAM

```
Start at: 2018-12-12 01:21:33
End at: 2018-12-12 01:22:03
Local clock offset: 0.321 ms
Remote clock offset: 0.27 ms

# Below is generated by plot.py at 2018-12-12 04:20:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 133.531 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 133.514 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 133.563 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 133.405 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link

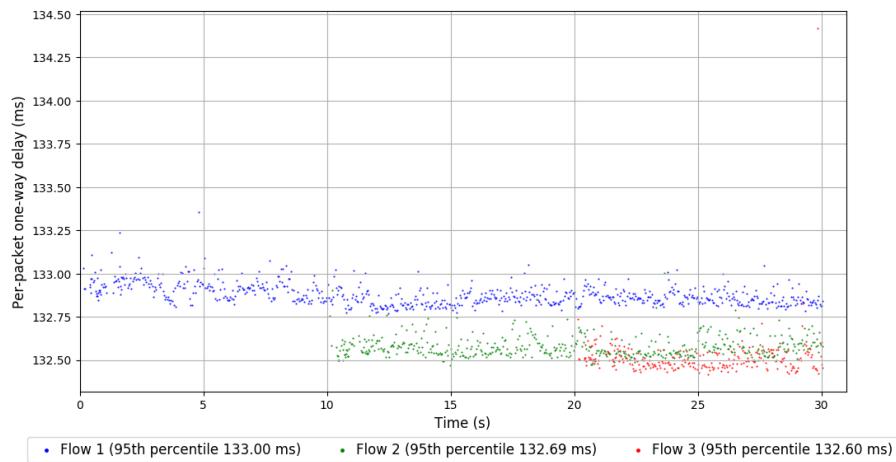
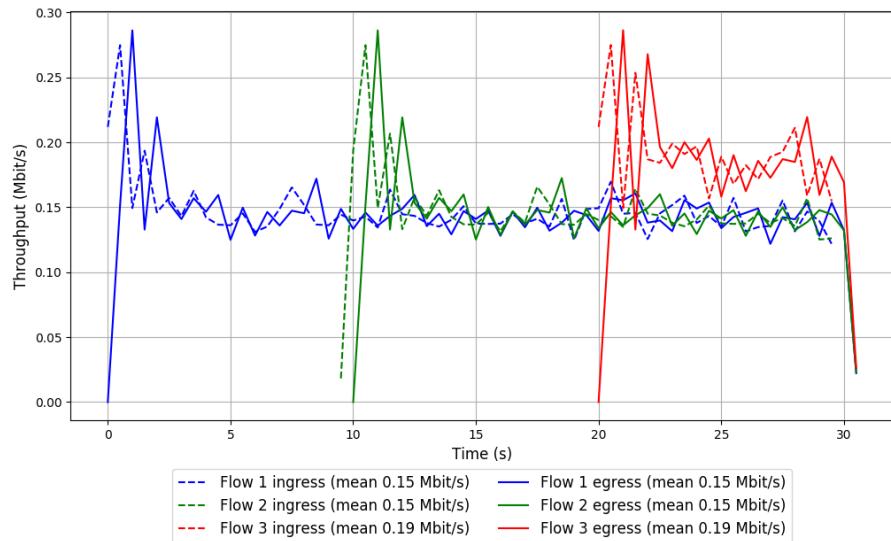


```
Run 5: Statistics of SCReAM

Start at: 2018-12-12 01:58:12
End at: 2018-12-12 01:58:42
Local clock offset: -0.018 ms
Remote clock offset: -0.12 ms

# Below is generated by plot.py at 2018-12-12 04:20:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.31 Mbit/s
95th percentile per-packet one-way delay: 132.965 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 133.000 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 132.688 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 132.600 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link

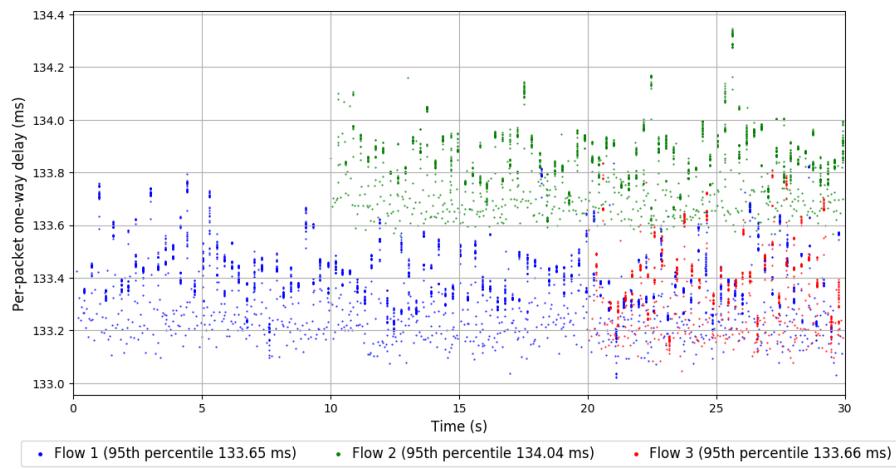
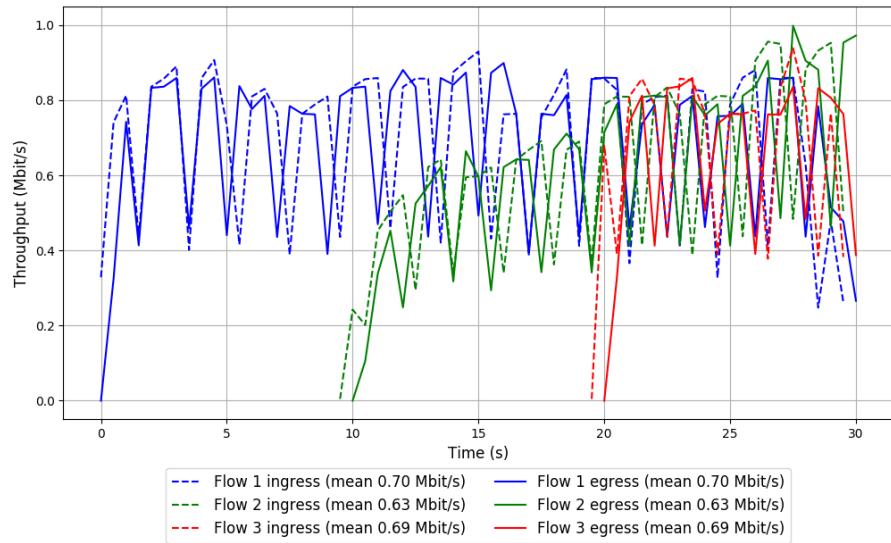


Run 1: Statistics of Sprout

```
Start at: 2018-12-11 23:45:43
End at: 2018-12-11 23:46:13
Local clock offset: -0.772 ms
Remote clock offset: 0.01 ms

# Below is generated by plot.py at 2018-12-12 04:20:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.35 Mbit/s
95th percentile per-packet one-way delay: 133.940 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.70 Mbit/s
95th percentile per-packet one-way delay: 133.646 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.63 Mbit/s
95th percentile per-packet one-way delay: 134.042 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.69 Mbit/s
95th percentile per-packet one-way delay: 133.663 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link

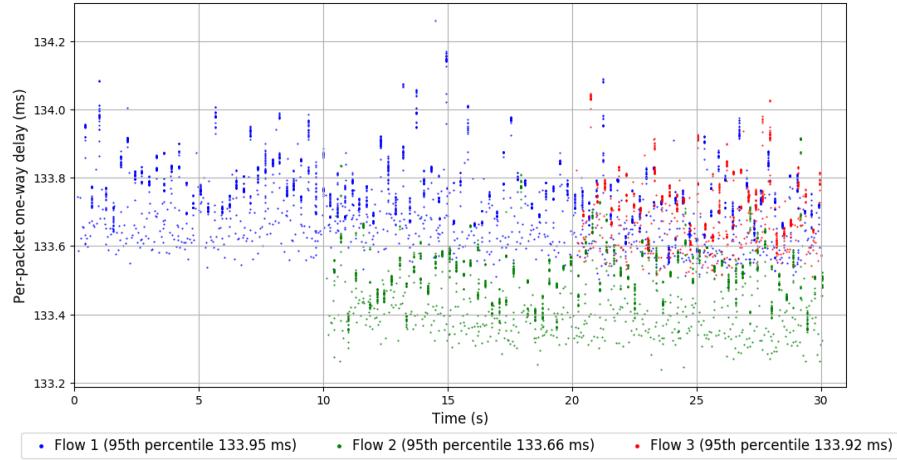
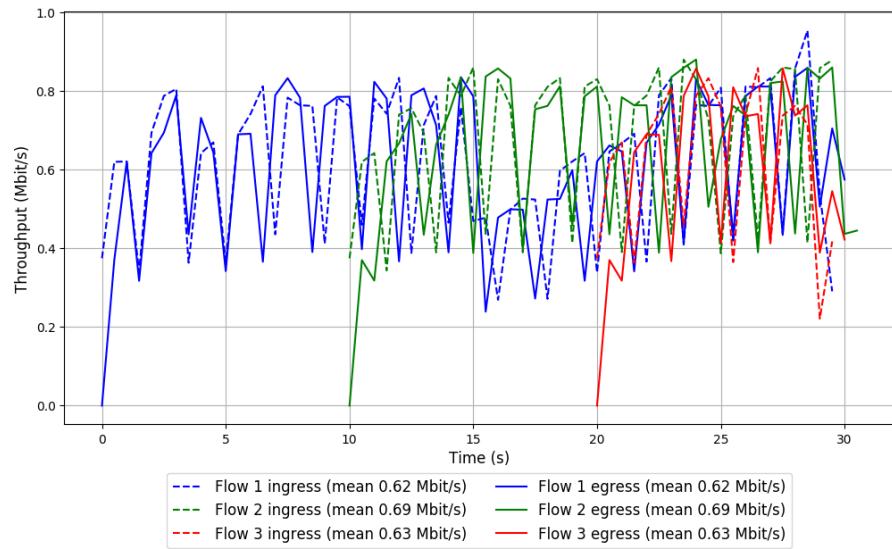


Run 2: Statistics of Sprout

```
Start at: 2018-12-12 00:22:16
End at: 2018-12-12 00:22:46
Local clock offset: -0.44 ms
Remote clock offset: 0.215 ms

# Below is generated by plot.py at 2018-12-12 04:20:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.28 Mbit/s
95th percentile per-packet one-way delay: 133.913 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.62 Mbit/s
95th percentile per-packet one-way delay: 133.952 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.69 Mbit/s
95th percentile per-packet one-way delay: 133.660 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.63 Mbit/s
95th percentile per-packet one-way delay: 133.916 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link

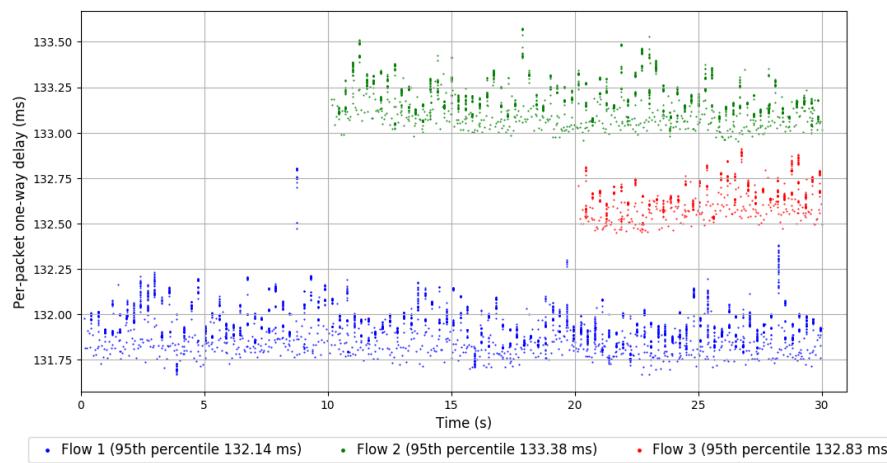
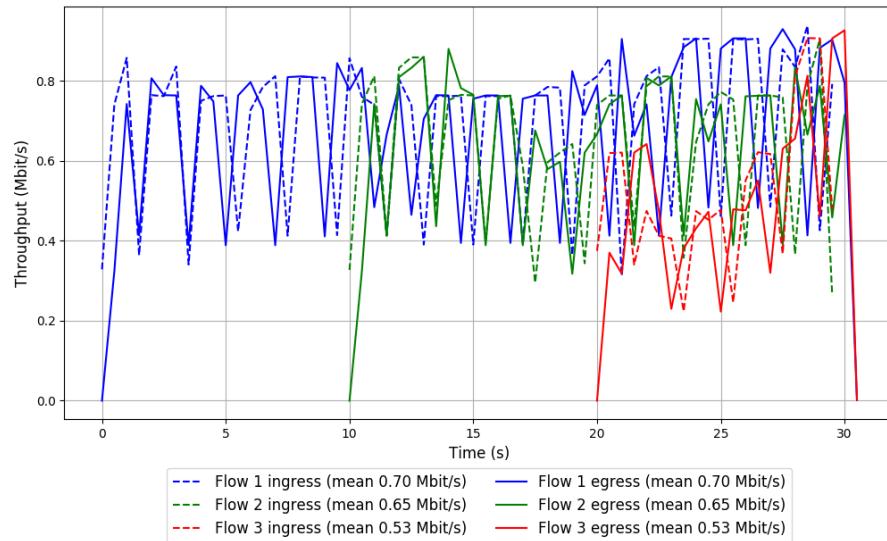


Run 3: Statistics of Sprout

```
Start at: 2018-12-12 00:58:14
End at: 2018-12-12 00:58:44
Local clock offset: 0.417 ms
Remote clock offset: -0.319 ms

# Below is generated by plot.py at 2018-12-12 04:20:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.31 Mbit/s
95th percentile per-packet one-way delay: 133.304 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.70 Mbit/s
95th percentile per-packet one-way delay: 132.141 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.65 Mbit/s
95th percentile per-packet one-way delay: 133.375 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 132.829 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

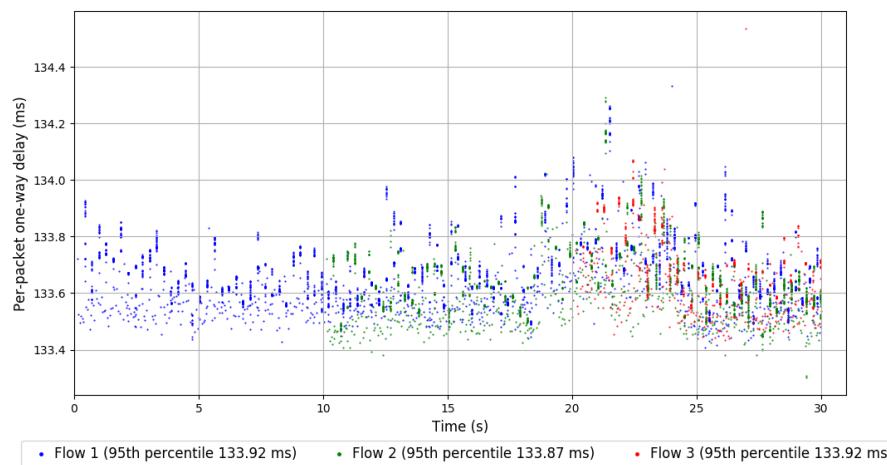
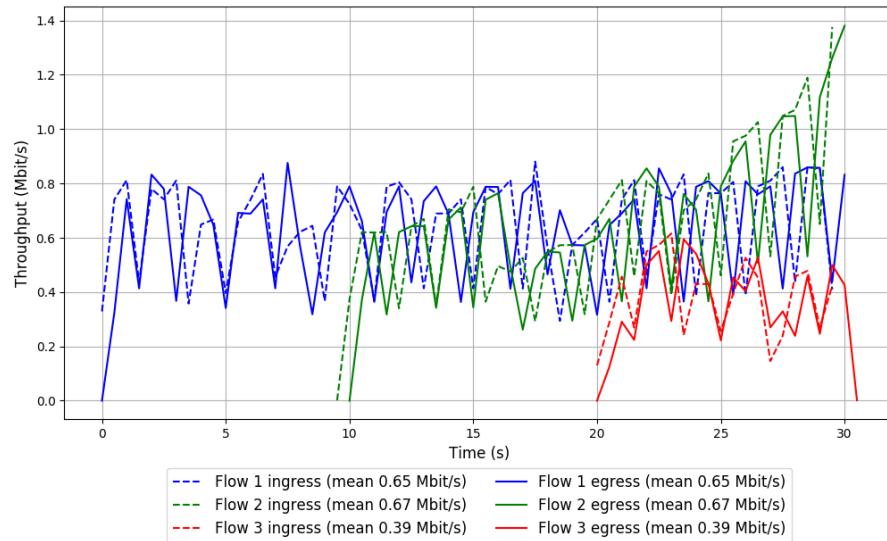


Run 4: Statistics of Sprout

```
Start at: 2018-12-12 01:34:32
End at: 2018-12-12 01:35:02
Local clock offset: -0.07 ms
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2018-12-12 04:20:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.22 Mbit/s
95th percentile per-packet one-way delay: 133.904 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.65 Mbit/s
95th percentile per-packet one-way delay: 133.917 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.67 Mbit/s
95th percentile per-packet one-way delay: 133.865 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 133.916 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

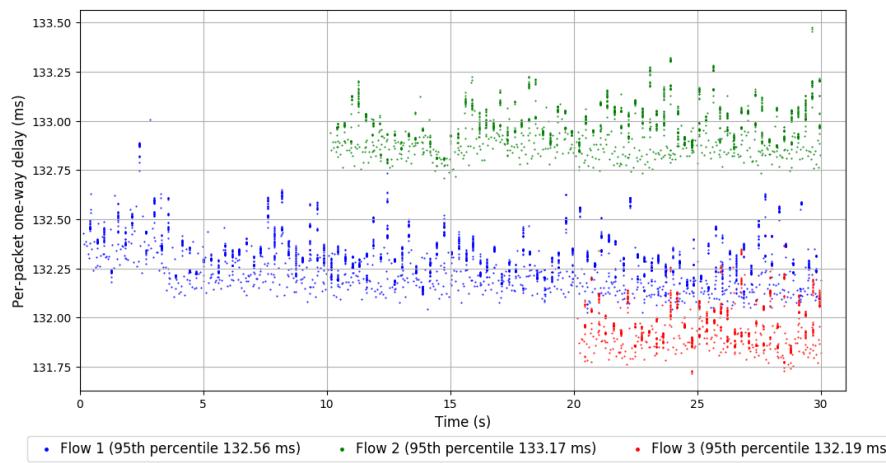
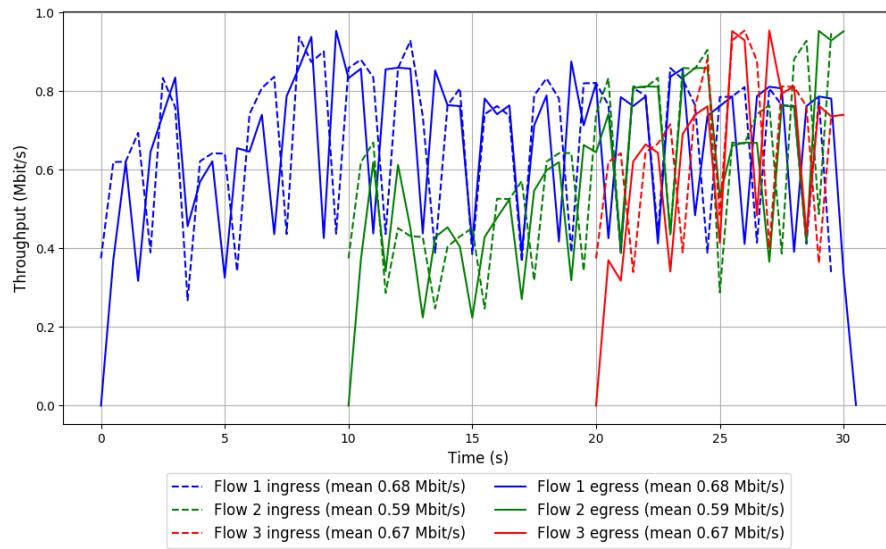


Run 5: Statistics of Sprout

```
Start at: 2018-12-12 02:10:37
End at: 2018-12-12 02:11:07
Local clock offset: 0.367 ms
Remote clock offset: -0.095 ms

# Below is generated by plot.py at 2018-12-12 04:20:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.29 Mbit/s
95th percentile per-packet one-way delay: 133.083 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.68 Mbit/s
95th percentile per-packet one-way delay: 132.560 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.59 Mbit/s
95th percentile per-packet one-way delay: 133.173 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.67 Mbit/s
95th percentile per-packet one-way delay: 132.190 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

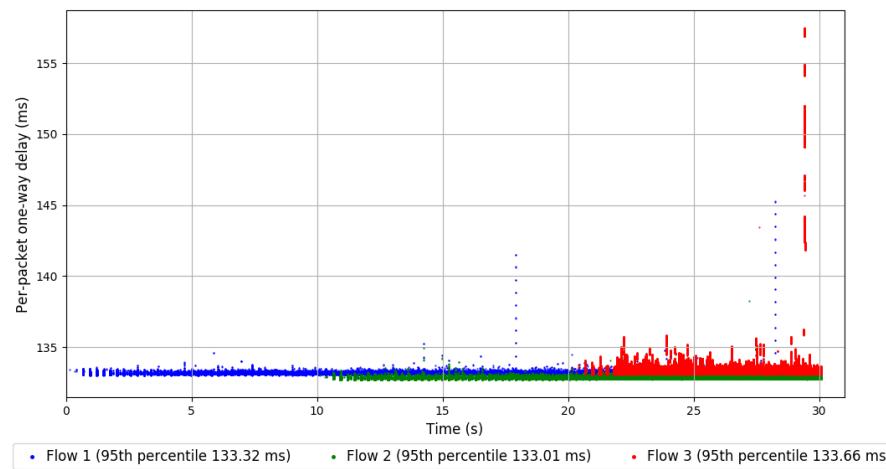
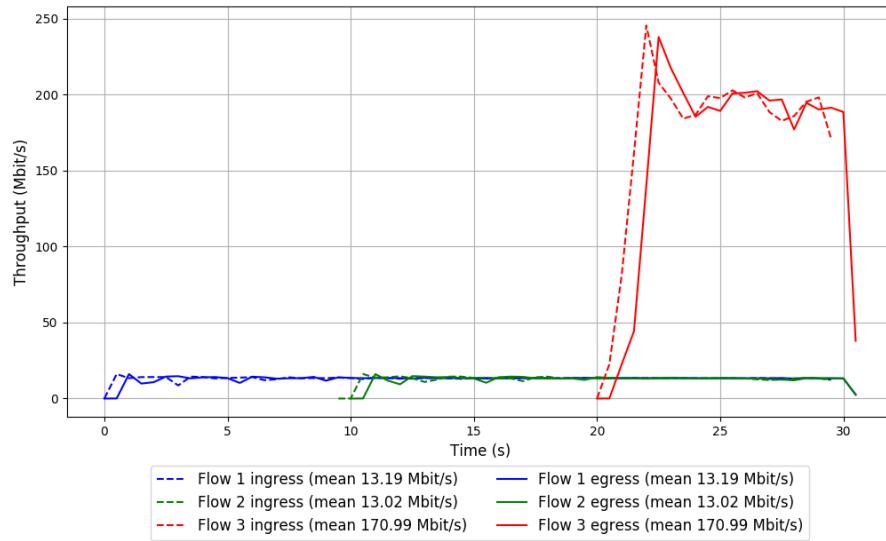


Run 1: Statistics of TaoVA-100x

```
Start at: 2018-12-11 23:31:35
End at: 2018-12-11 23:32:05
Local clock offset: -0.511 ms
Remote clock offset: 0.042 ms

# Below is generated by plot.py at 2018-12-12 04:20:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.70 Mbit/s
95th percentile per-packet one-way delay: 133.588 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.19 Mbit/s
95th percentile per-packet one-way delay: 133.316 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 13.02 Mbit/s
95th percentile per-packet one-way delay: 133.009 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 170.99 Mbit/s
95th percentile per-packet one-way delay: 133.660 ms
Loss rate: 0.00%
```

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

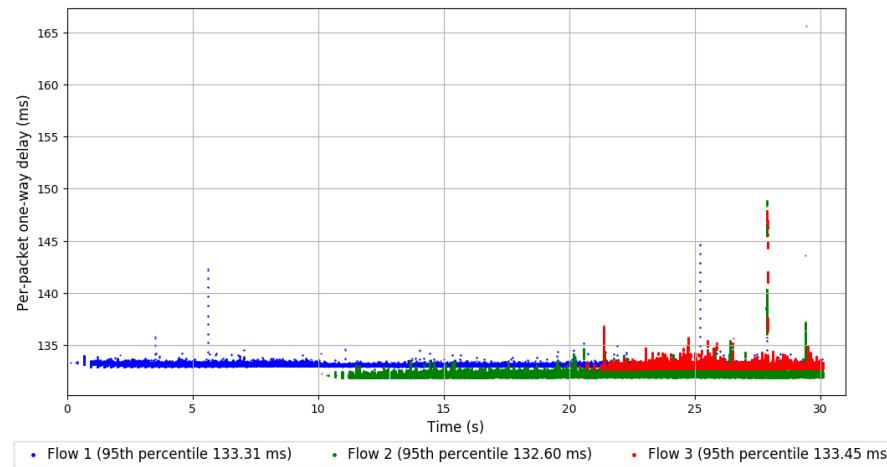
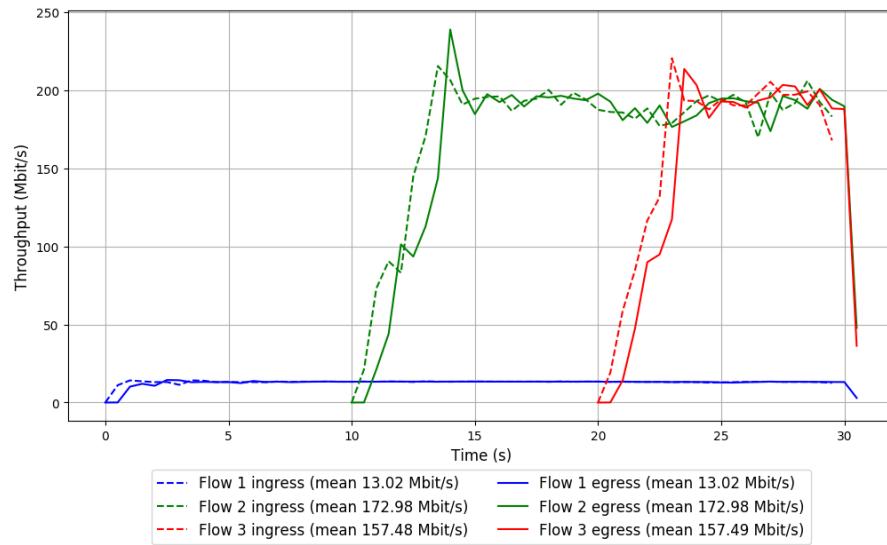


Run 2: Statistics of TaoVA-100x

```
Start at: 2018-12-12 00:07:28
End at: 2018-12-12 00:07:58
Local clock offset: -0.553 ms
Remote clock offset: -0.106 ms

# Below is generated by plot.py at 2018-12-12 04:20:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 180.51 Mbit/s
95th percentile per-packet one-way delay: 133.232 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.02 Mbit/s
95th percentile per-packet one-way delay: 133.314 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 172.98 Mbit/s
95th percentile per-packet one-way delay: 132.605 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 157.49 Mbit/s
95th percentile per-packet one-way delay: 133.447 ms
Loss rate: 0.00%
```

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

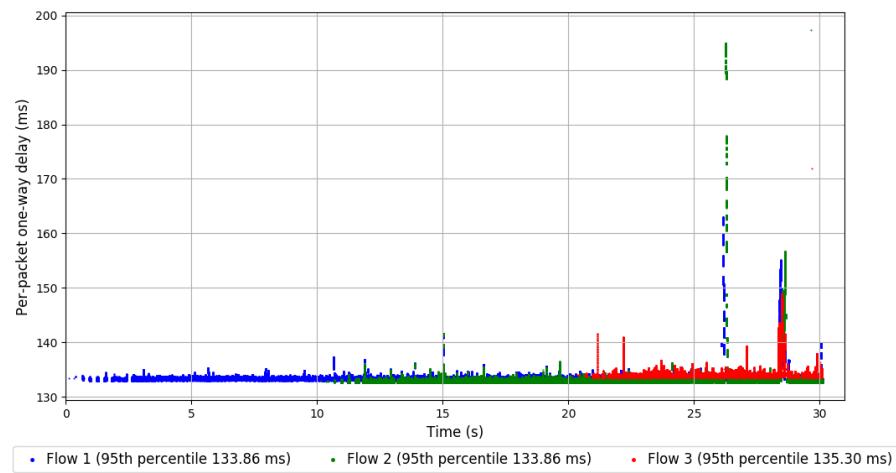
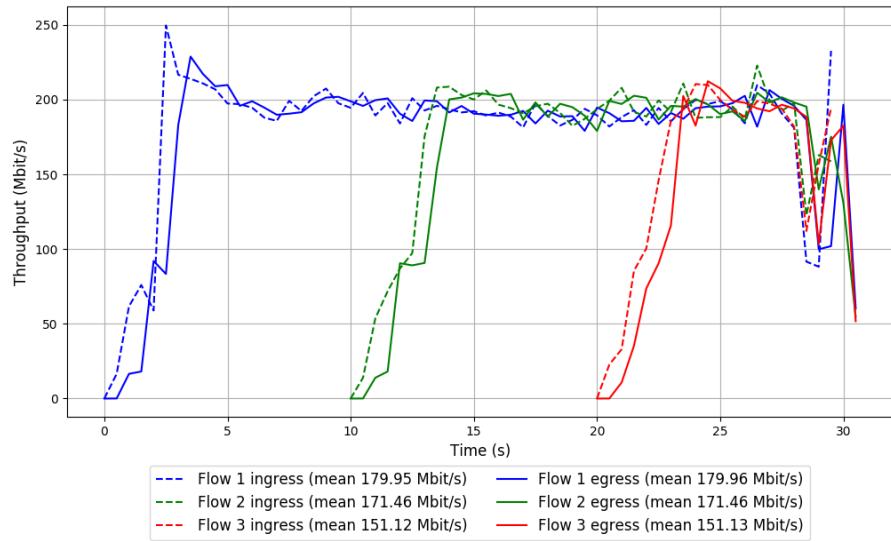


Run 3: Statistics of TaoVA-100x

```
Start at: 2018-12-12 00:44:11
End at: 2018-12-12 00:44:41
Local clock offset: -0.099 ms
Remote clock offset: 0.121 ms

# Below is generated by plot.py at 2018-12-12 04:20:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 344.26 Mbit/s
95th percentile per-packet one-way delay: 134.288 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 179.96 Mbit/s
95th percentile per-packet one-way delay: 133.856 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 171.46 Mbit/s
95th percentile per-packet one-way delay: 133.861 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 151.13 Mbit/s
95th percentile per-packet one-way delay: 135.298 ms
Loss rate: 0.00%
```

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

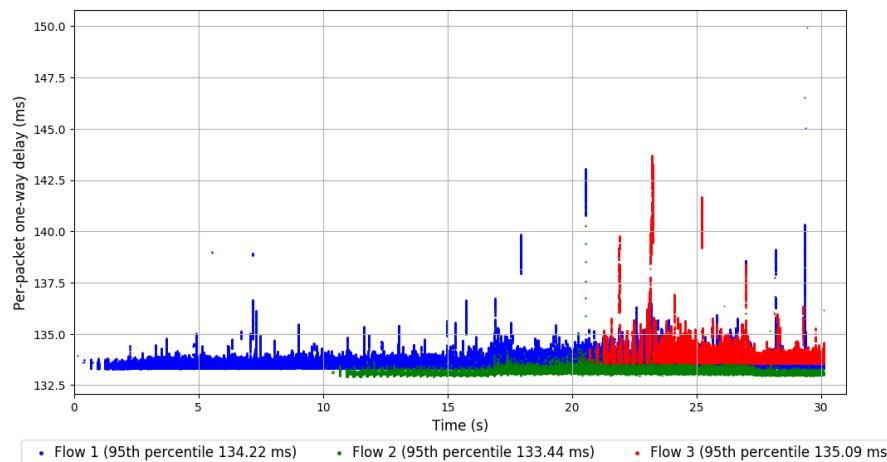
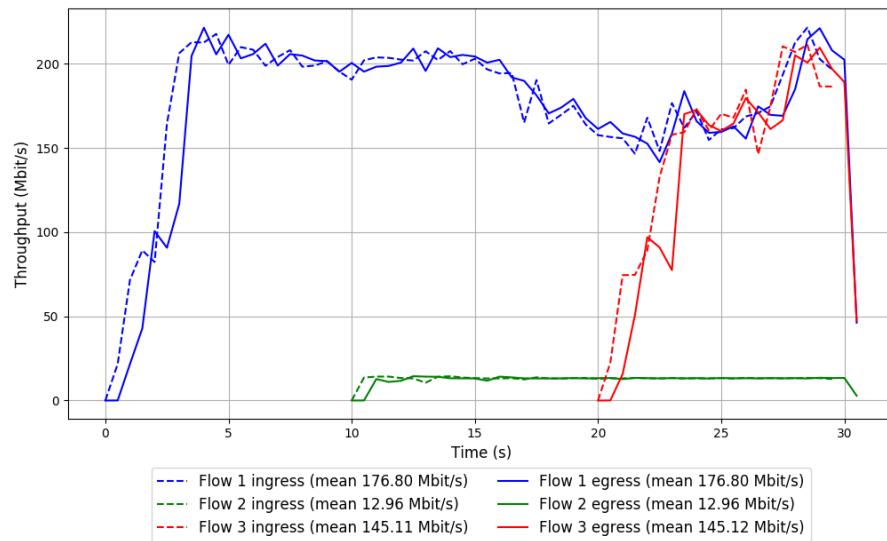


Run 4: Statistics of TaoVA-100x

```
Start at: 2018-12-12 01:19:47
End at: 2018-12-12 01:20:17
Local clock offset: -0.362 ms
Remote clock offset: -0.111 ms

# Below is generated by plot.py at 2018-12-12 04:20:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 233.63 Mbit/s
95th percentile per-packet one-way delay: 134.405 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 176.80 Mbit/s
95th percentile per-packet one-way delay: 134.216 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 12.96 Mbit/s
95th percentile per-packet one-way delay: 133.438 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 145.12 Mbit/s
95th percentile per-packet one-way delay: 135.086 ms
Loss rate: 0.00%
```

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

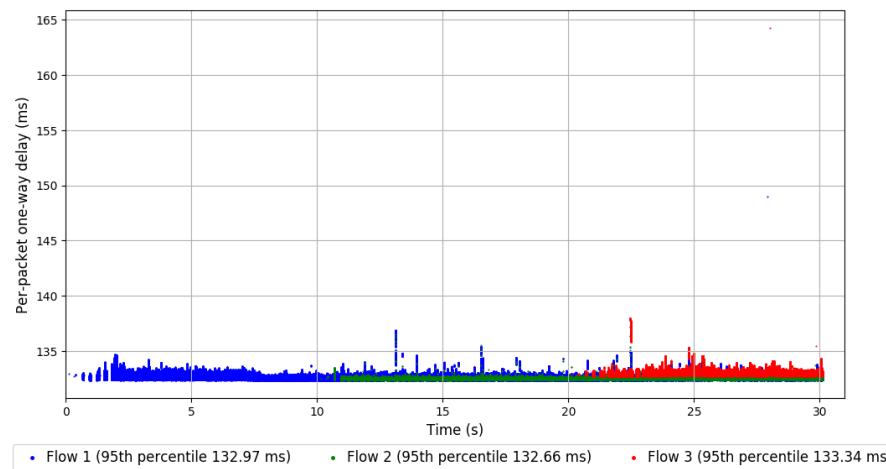
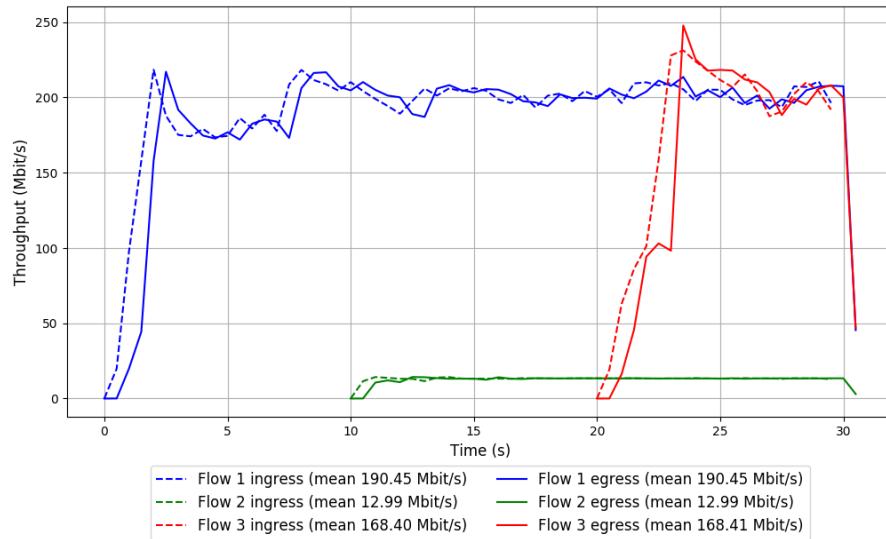


Run 5: Statistics of TaoVA-100x

```
Start at: 2018-12-12 01:56:25
End at: 2018-12-12 01:56:55
Local clock offset: -0.057 ms
Remote clock offset: -0.063 ms

# Below is generated by plot.py at 2018-12-12 04:20:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 254.98 Mbit/s
95th percentile per-packet one-way delay: 133.128 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 190.45 Mbit/s
95th percentile per-packet one-way delay: 132.966 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 12.99 Mbit/s
95th percentile per-packet one-way delay: 132.657 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 168.41 Mbit/s
95th percentile per-packet one-way delay: 133.335 ms
Loss rate: 0.00%
```

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

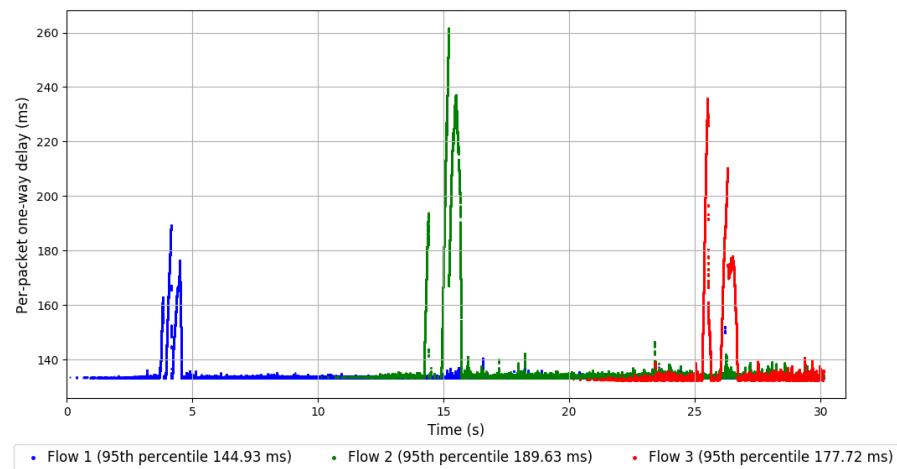
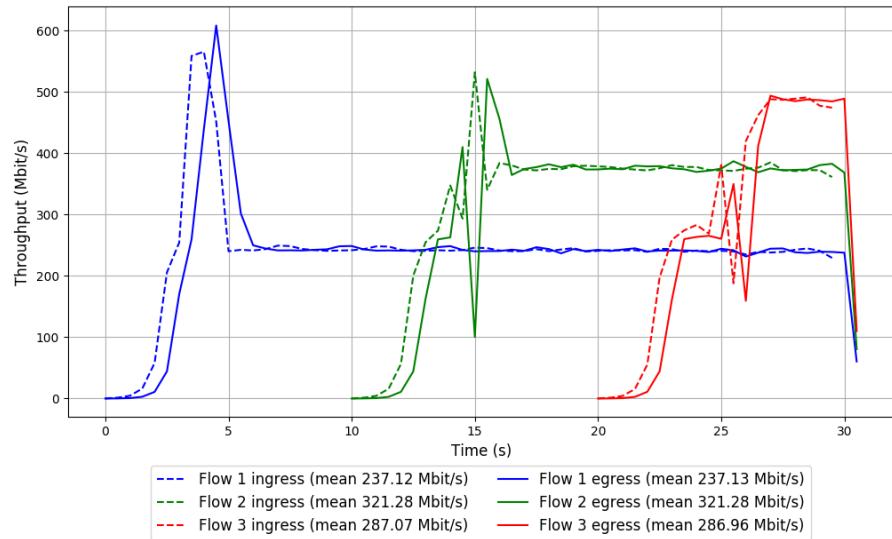


Run 1: Statistics of TCP Vegas

```
Start at: 2018-12-11 23:43:49
End at: 2018-12-11 23:44:19
Local clock offset: -0.552 ms
Remote clock offset: 0.067 ms

# Below is generated by plot.py at 2018-12-12 04:20:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 546.53 Mbit/s
95th percentile per-packet one-way delay: 167.268 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 237.13 Mbit/s
95th percentile per-packet one-way delay: 144.926 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 321.28 Mbit/s
95th percentile per-packet one-way delay: 189.629 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 286.96 Mbit/s
95th percentile per-packet one-way delay: 177.725 ms
Loss rate: 0.04%
```

Run 1: Report of TCP Vegas — Data Link

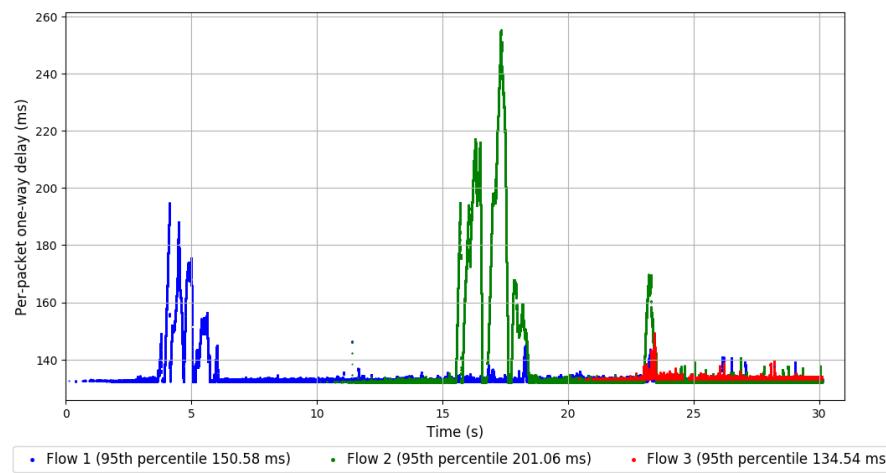
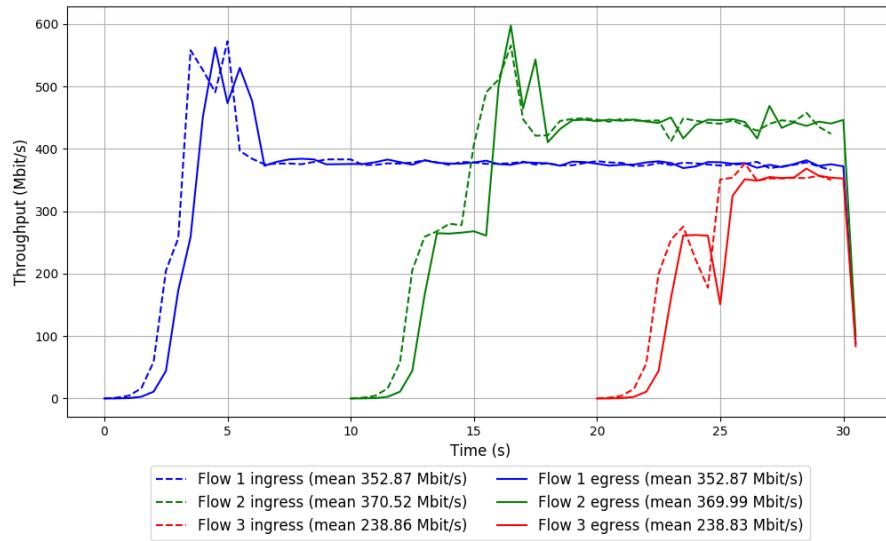


Run 2: Statistics of TCP Vegas

```
Start at: 2018-12-12 00:20:14
End at: 2018-12-12 00:20:44
Local clock offset: -0.702 ms
Remote clock offset: -0.168 ms

# Below is generated by plot.py at 2018-12-12 04:26:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 678.65 Mbit/s
95th percentile per-packet one-way delay: 167.418 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 352.87 Mbit/s
95th percentile per-packet one-way delay: 150.584 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 369.99 Mbit/s
95th percentile per-packet one-way delay: 201.061 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 238.83 Mbit/s
95th percentile per-packet one-way delay: 134.539 ms
Loss rate: 0.00%
```

Run 2: Report of TCP Vegas — Data Link

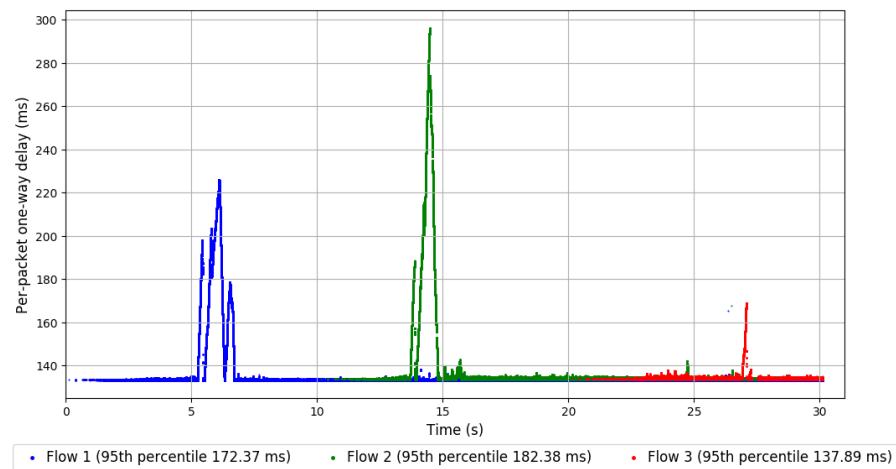
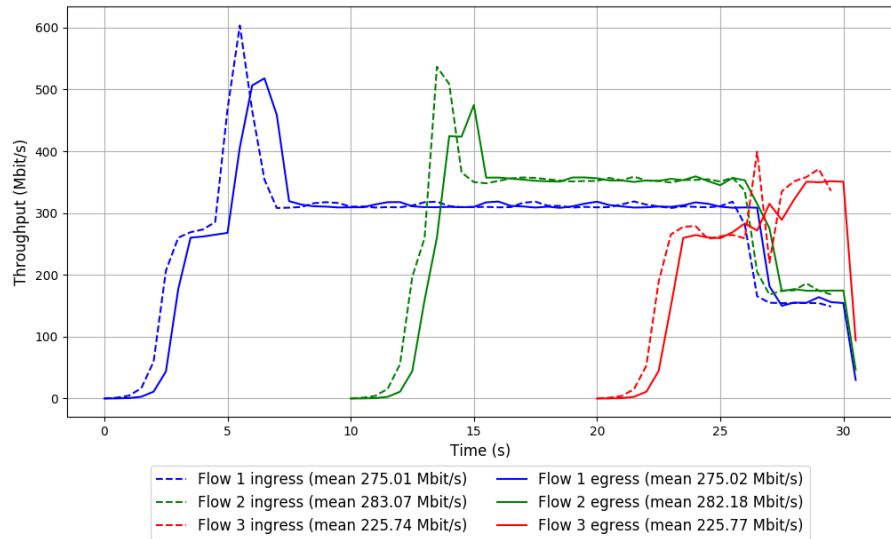


Run 3: Statistics of TCP Vegas

```
Start at: 2018-12-12 00:56:16
End at: 2018-12-12 00:56:46
Local clock offset: -0.028 ms
Remote clock offset: 0.095 ms

# Below is generated by plot.py at 2018-12-12 04:26:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 537.97 Mbit/s
95th percentile per-packet one-way delay: 169.220 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 275.02 Mbit/s
95th percentile per-packet one-way delay: 172.374 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 282.18 Mbit/s
95th percentile per-packet one-way delay: 182.382 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 225.77 Mbit/s
95th percentile per-packet one-way delay: 137.891 ms
Loss rate: 0.00%
```

Run 3: Report of TCP Vegas — Data Link

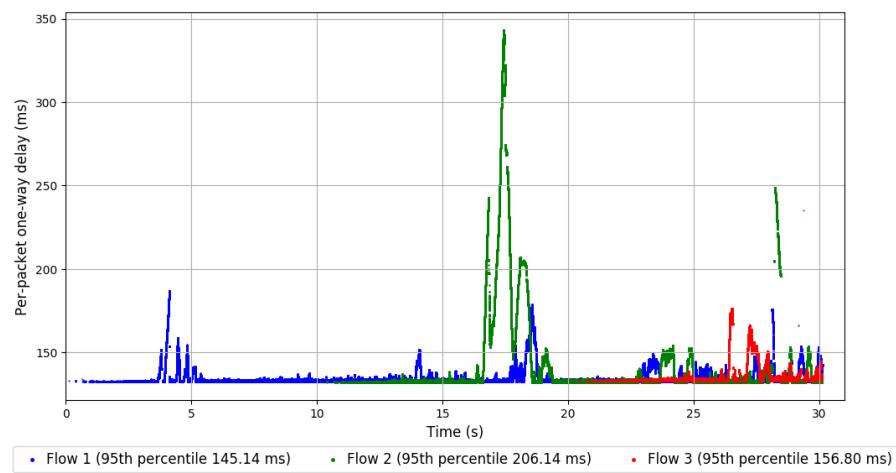
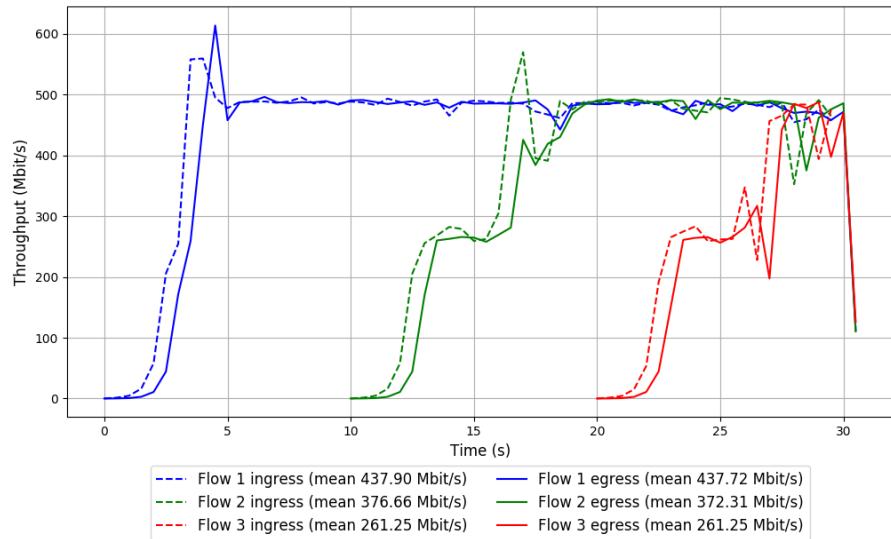


Run 4: Statistics of TCP Vegas

```
Start at: 2018-12-12 01:32:22
End at: 2018-12-12 01:32:52
Local clock offset: 0.28 ms
Remote clock offset: -0.118 ms

# Below is generated by plot.py at 2018-12-12 04:32:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 772.55 Mbit/s
95th percentile per-packet one-way delay: 157.886 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 437.72 Mbit/s
95th percentile per-packet one-way delay: 145.140 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 372.31 Mbit/s
95th percentile per-packet one-way delay: 206.143 ms
Loss rate: 1.15%
-- Flow 3:
Average throughput: 261.25 Mbit/s
95th percentile per-packet one-way delay: 156.798 ms
Loss rate: 0.00%
```

Run 4: Report of TCP Vegas — Data Link

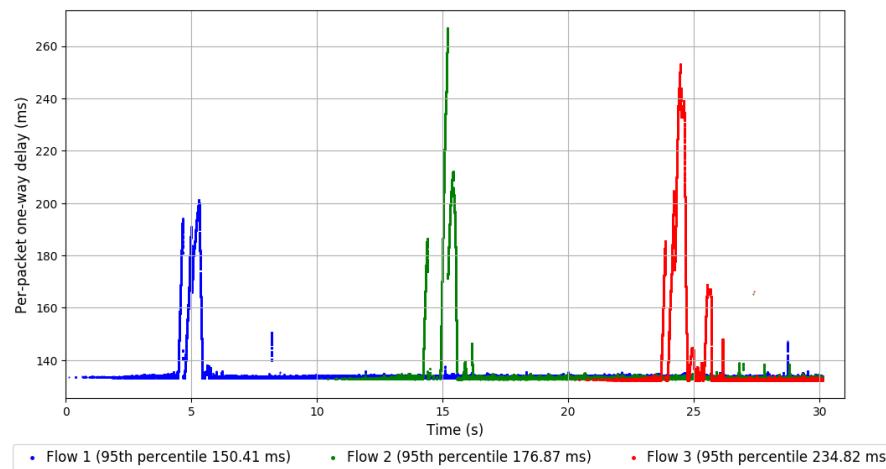
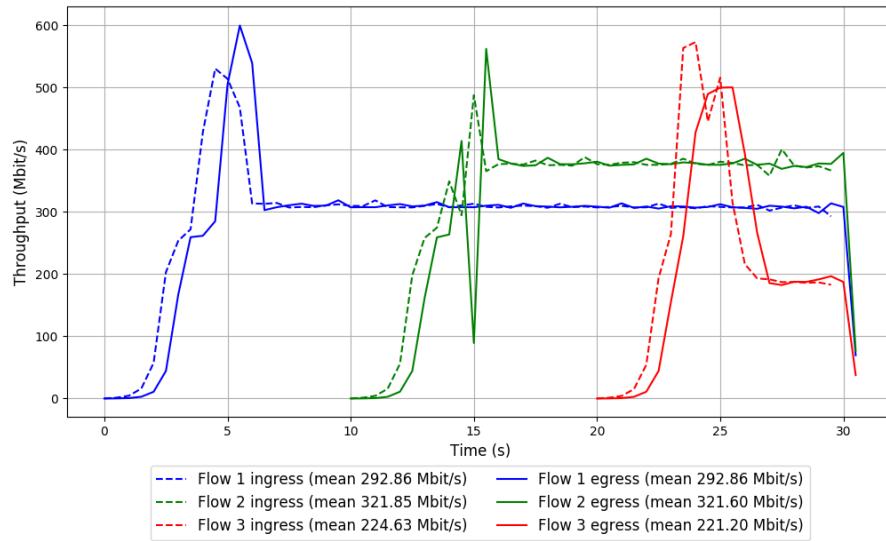


Run 5: Statistics of TCP Vegas

```
Start at: 2018-12-12 02:08:40
End at: 2018-12-12 02:09:10
Local clock offset: -0.032 ms
Remote clock offset: -0.086 ms

# Below is generated by plot.py at 2018-12-12 04:32:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 580.58 Mbit/s
95th percentile per-packet one-way delay: 179.067 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 292.86 Mbit/s
95th percentile per-packet one-way delay: 150.409 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 321.60 Mbit/s
95th percentile per-packet one-way delay: 176.869 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 221.20 Mbit/s
95th percentile per-packet one-way delay: 234.816 ms
Loss rate: 1.53%
```

Run 5: Report of TCP Vegas — Data Link

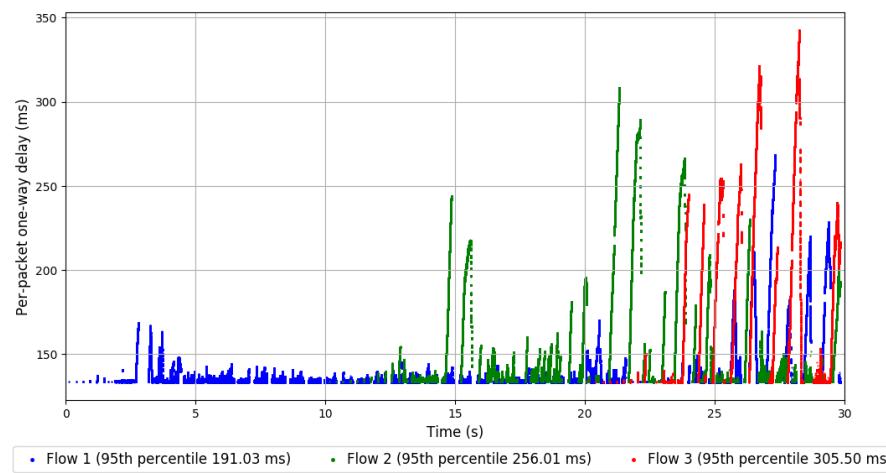
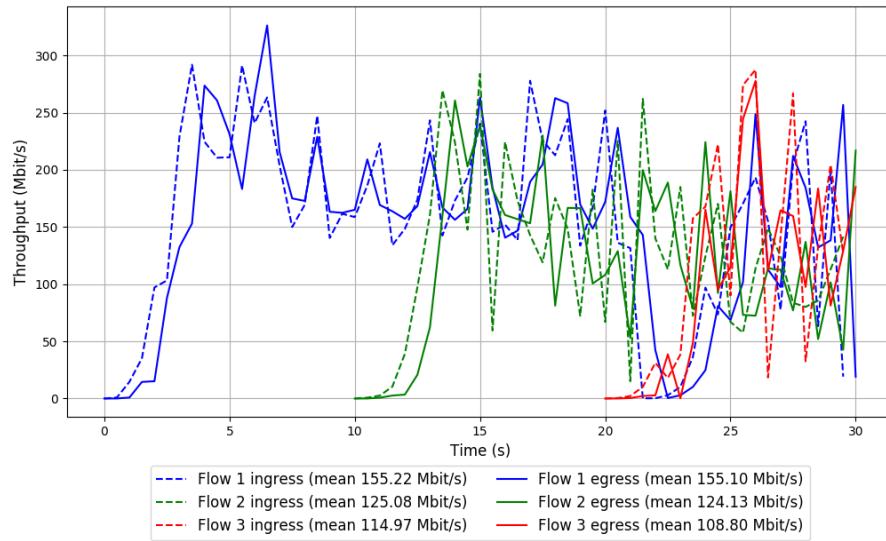


Run 1: Statistics of Verus

```
Start at: 2018-12-11 23:18:15
End at: 2018-12-11 23:18:45
Local clock offset: -0.826 ms
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2018-12-12 04:32:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 272.79 Mbit/s
95th percentile per-packet one-way delay: 247.409 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 155.10 Mbit/s
95th percentile per-packet one-way delay: 191.033 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 124.13 Mbit/s
95th percentile per-packet one-way delay: 256.011 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 108.80 Mbit/s
95th percentile per-packet one-way delay: 305.497 ms
Loss rate: 5.38%
```

Run 1: Report of Verus — Data Link

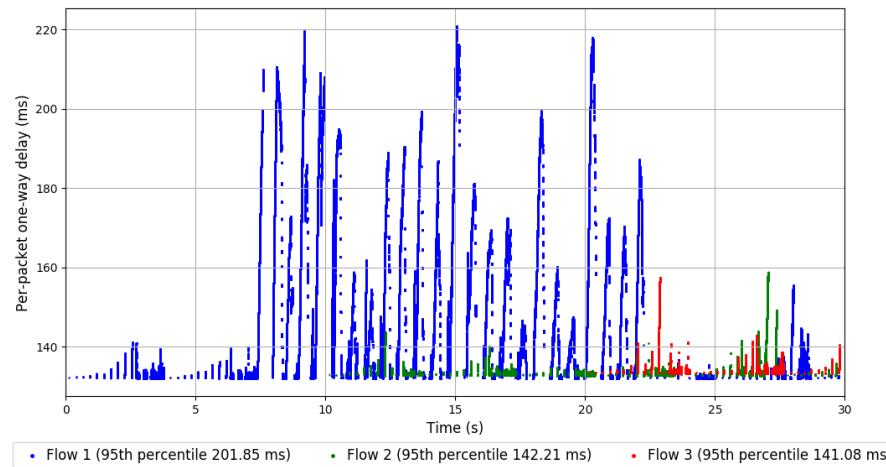
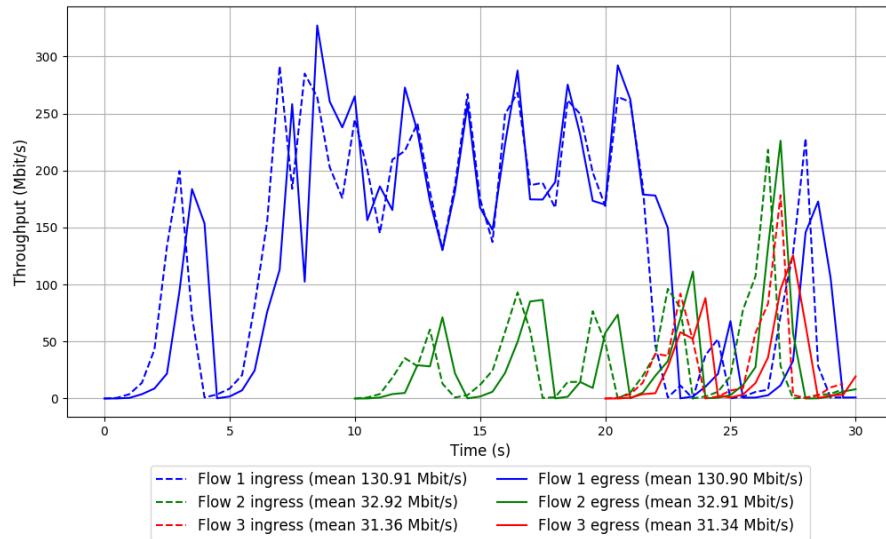


Run 2: Statistics of Verus

```
Start at: 2018-12-11 23:54:24
End at: 2018-12-11 23:54:54
Local clock offset: -0.604 ms
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2018-12-12 04:32:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 162.55 Mbit/s
95th percentile per-packet one-way delay: 198.781 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 130.90 Mbit/s
95th percentile per-packet one-way delay: 201.855 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 32.91 Mbit/s
95th percentile per-packet one-way delay: 142.210 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 31.34 Mbit/s
95th percentile per-packet one-way delay: 141.081 ms
Loss rate: 0.00%
```

Run 2: Report of Verus — Data Link

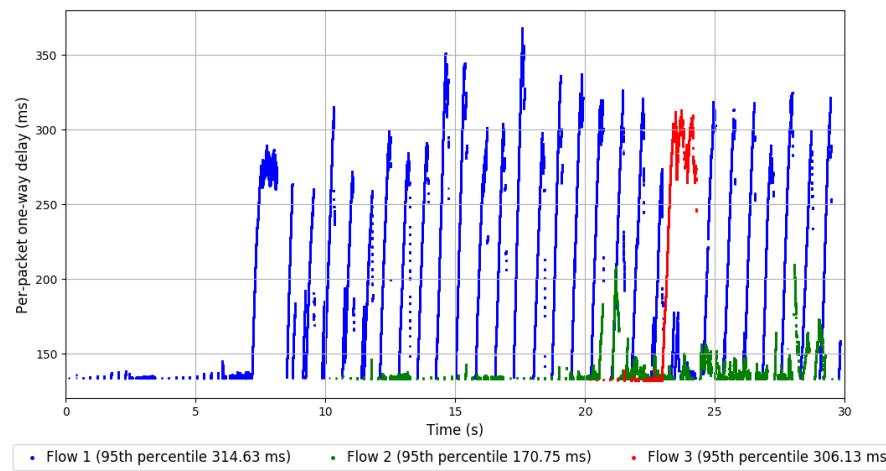
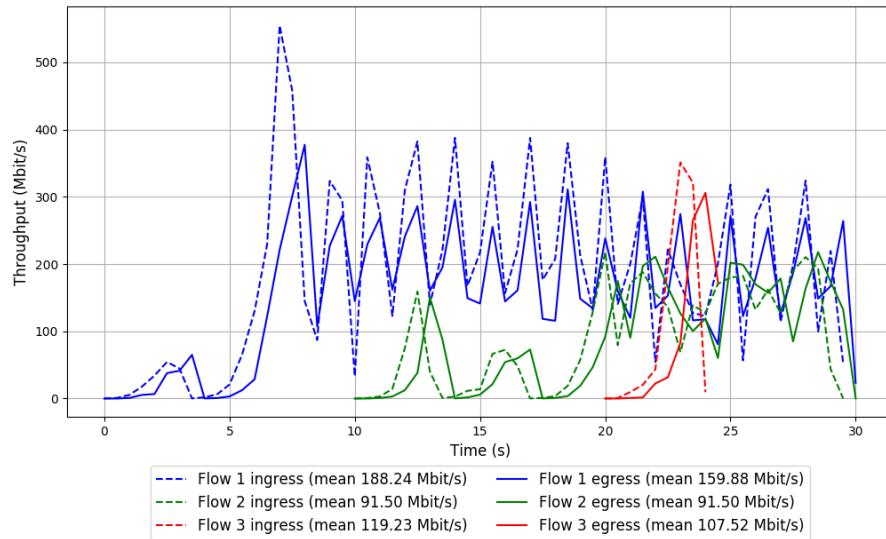


Run 3: Statistics of Verus

```
Start at: 2018-12-12 00:31:24
End at: 2018-12-12 00:31:54
Local clock offset: -0.848 ms
Remote clock offset: -0.232 ms

# Below is generated by plot.py at 2018-12-12 04:32:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 235.27 Mbit/s
95th percentile per-packet one-way delay: 307.172 ms
Loss rate: 11.15%
-- Flow 1:
Average throughput: 159.88 Mbit/s
95th percentile per-packet one-way delay: 314.631 ms
Loss rate: 15.07%
-- Flow 2:
Average throughput: 91.50 Mbit/s
95th percentile per-packet one-way delay: 170.747 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 107.52 Mbit/s
95th percentile per-packet one-way delay: 306.130 ms
Loss rate: 7.27%
```

Run 3: Report of Verus — Data Link

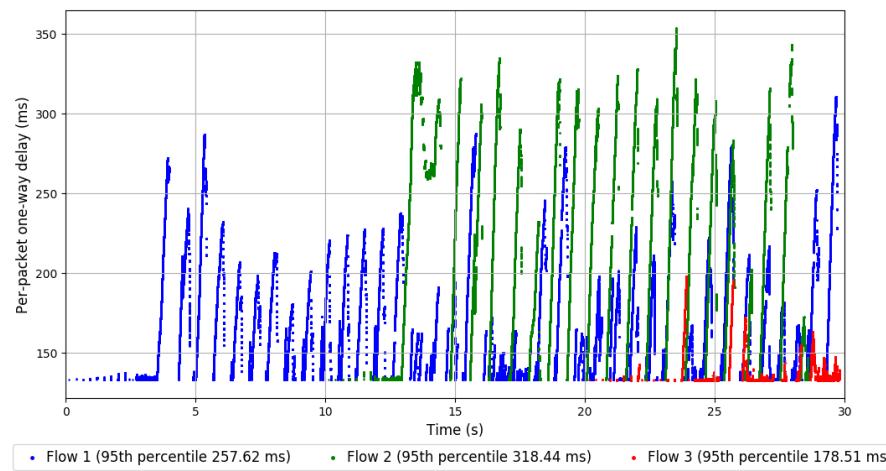
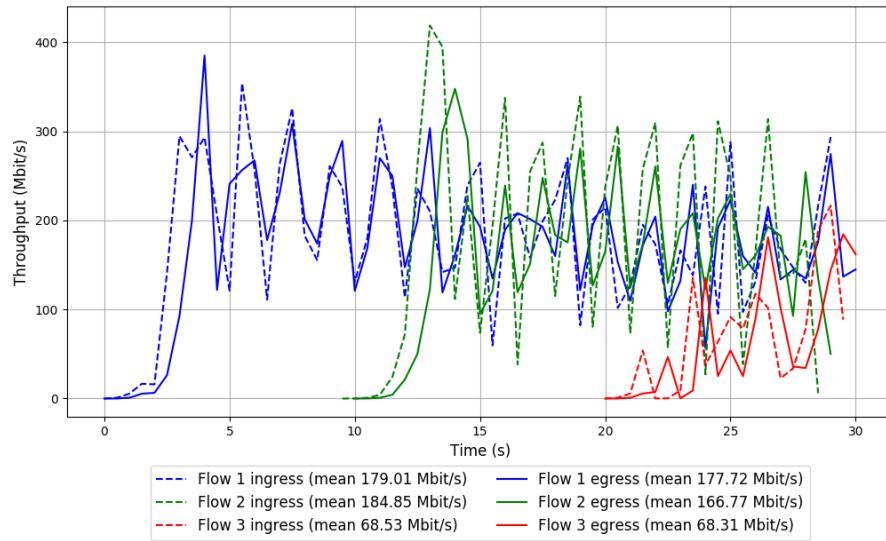


Run 4: Statistics of Verus

```
Start at: 2018-12-12 01:07:10
End at: 2018-12-12 01:07:40
Local clock offset: 0.209 ms
Remote clock offset: -0.18 ms

# Below is generated by plot.py at 2018-12-12 04:32:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 303.46 Mbit/s
95th percentile per-packet one-way delay: 302.081 ms
Loss rate: 3.83%
-- Flow 1:
Average throughput: 177.72 Mbit/s
95th percentile per-packet one-way delay: 257.620 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 166.77 Mbit/s
95th percentile per-packet one-way delay: 318.437 ms
Loss rate: 9.78%
-- Flow 3:
Average throughput: 68.31 Mbit/s
95th percentile per-packet one-way delay: 178.515 ms
Loss rate: 0.31%
```

Run 4: Report of Verus — Data Link

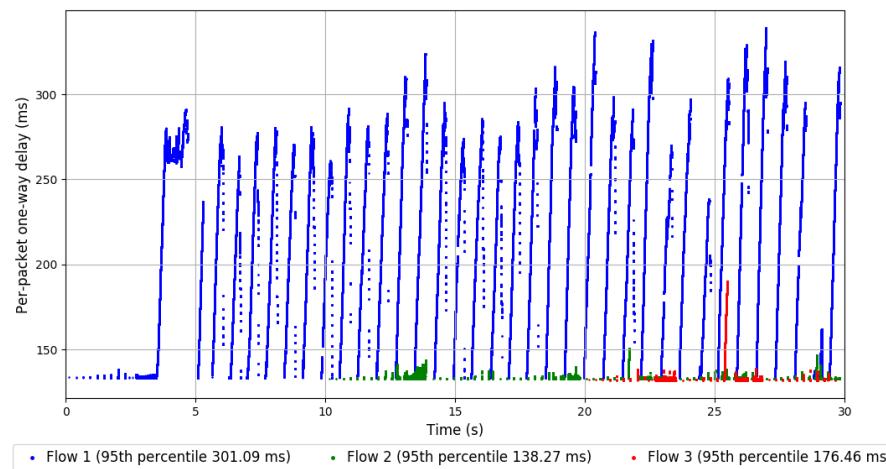
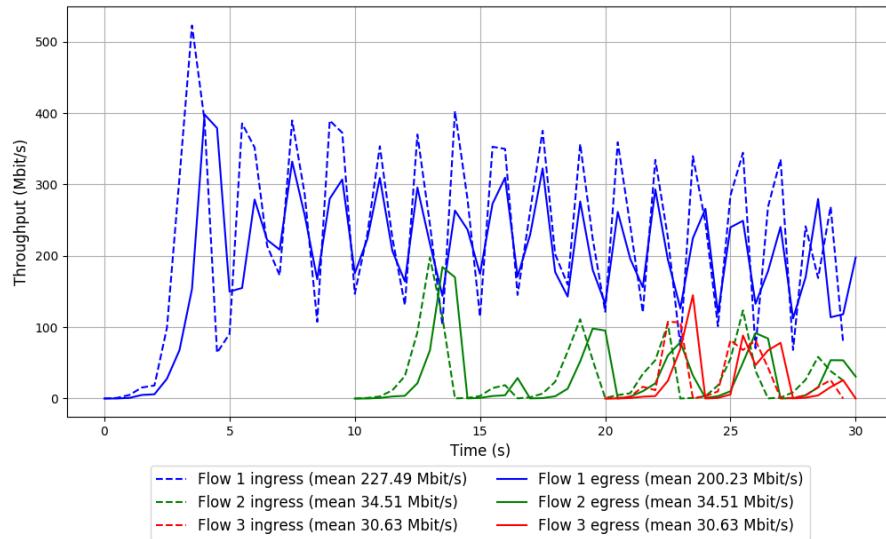


Run 5: Statistics of Verus

```
Start at: 2018-12-12 01:43:40
End at: 2018-12-12 01:44:10
Local clock offset: -0.122 ms
Remote clock offset: -0.417 ms

# Below is generated by plot.py at 2018-12-12 04:33:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 232.88 Mbit/s
95th percentile per-packet one-way delay: 298.385 ms
Loss rate: 10.47%
-- Flow 1:
Average throughput: 200.23 Mbit/s
95th percentile per-packet one-way delay: 301.093 ms
Loss rate: 11.97%
-- Flow 2:
Average throughput: 34.51 Mbit/s
95th percentile per-packet one-way delay: 138.272 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 30.63 Mbit/s
95th percentile per-packet one-way delay: 176.455 ms
Loss rate: 0.00%
```

Run 5: Report of Verus — Data Link

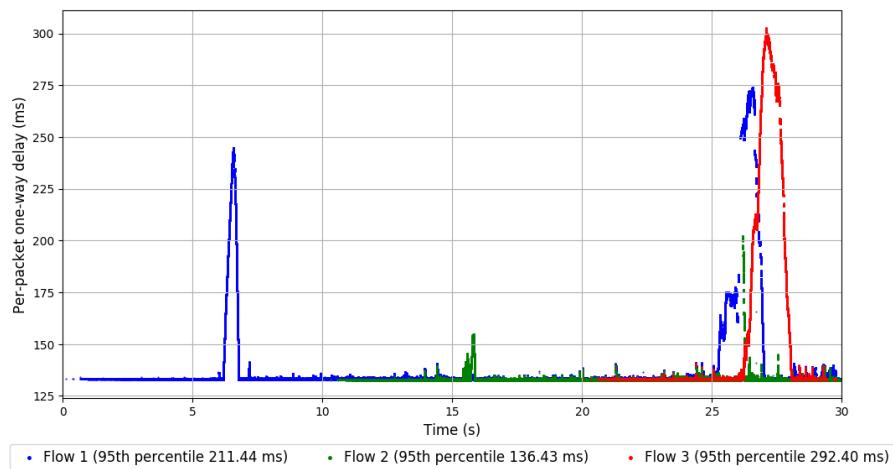
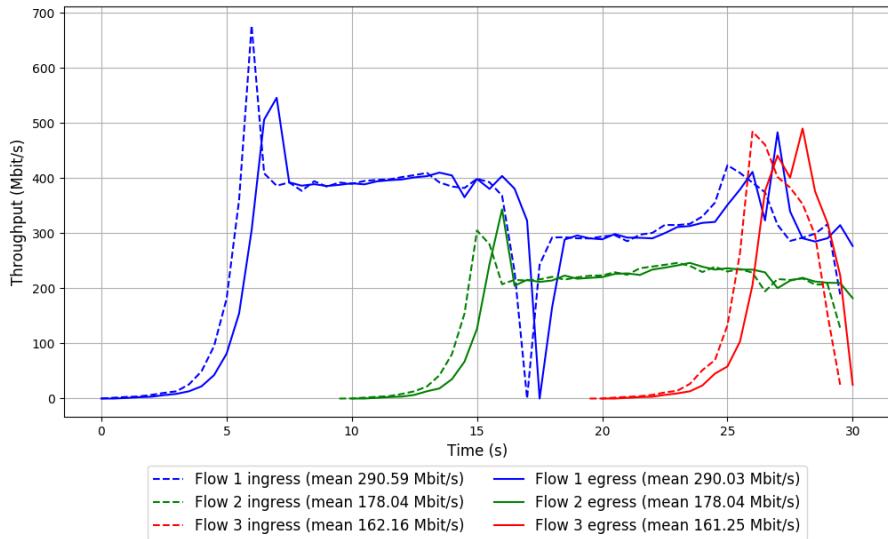


Run 1: Statistics of PCC-Vivace

```
Start at: 2018-12-11 23:14:51
End at: 2018-12-11 23:15:21
Local clock offset: -0.615 ms
Remote clock offset: 0.007 ms

# Below is generated by plot.py at 2018-12-12 04:35:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 461.22 Mbit/s
95th percentile per-packet one-way delay: 231.758 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 290.03 Mbit/s
95th percentile per-packet one-way delay: 211.437 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 178.04 Mbit/s
95th percentile per-packet one-way delay: 136.433 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 161.25 Mbit/s
95th percentile per-packet one-way delay: 292.400 ms
Loss rate: 0.56%
```

Run 1: Report of PCC-Vivace — Data Link

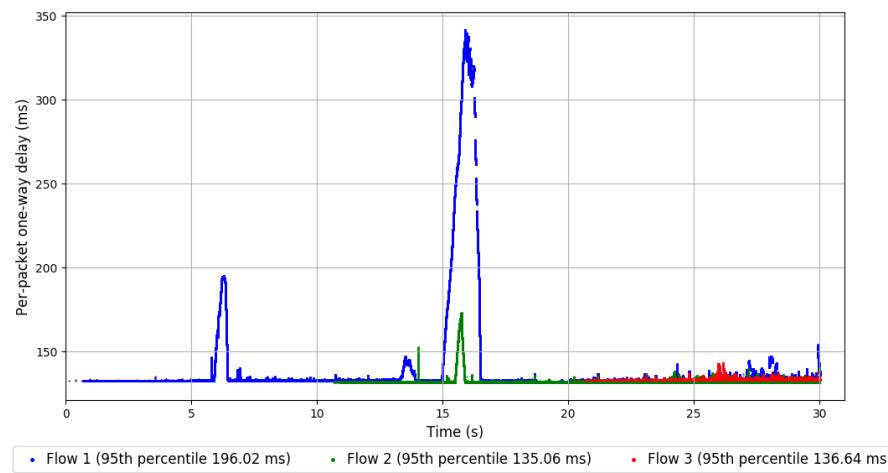
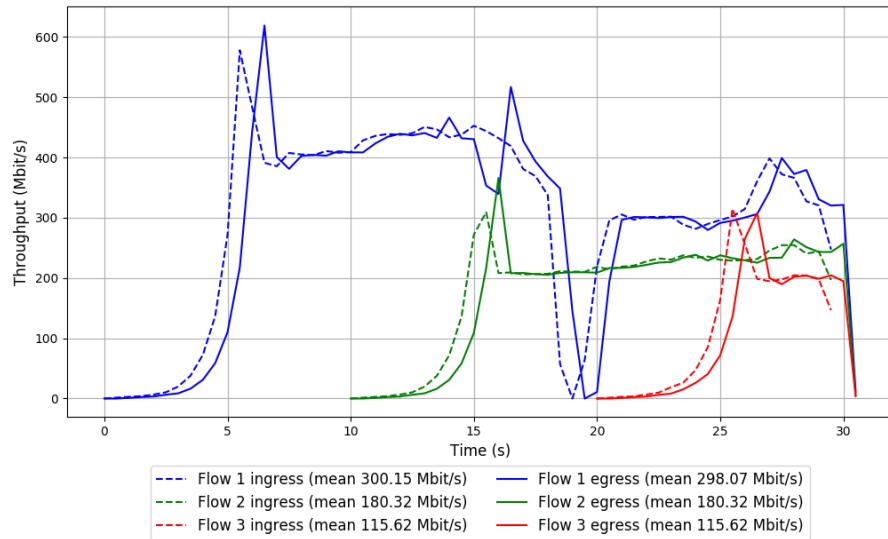


Run 2: Statistics of PCC-Vivace

```
Start at: 2018-12-11 23:51:03
End at: 2018-12-11 23:51:33
Local clock offset: -0.559 ms
Remote clock offset: -0.37 ms

# Below is generated by plot.py at 2018-12-12 04:35:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 456.13 Mbit/s
95th percentile per-packet one-way delay: 173.262 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 298.07 Mbit/s
95th percentile per-packet one-way delay: 196.019 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 180.32 Mbit/s
95th percentile per-packet one-way delay: 135.057 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 115.62 Mbit/s
95th percentile per-packet one-way delay: 136.636 ms
Loss rate: 0.00%
```

Run 2: Report of PCC-Vivace — Data Link

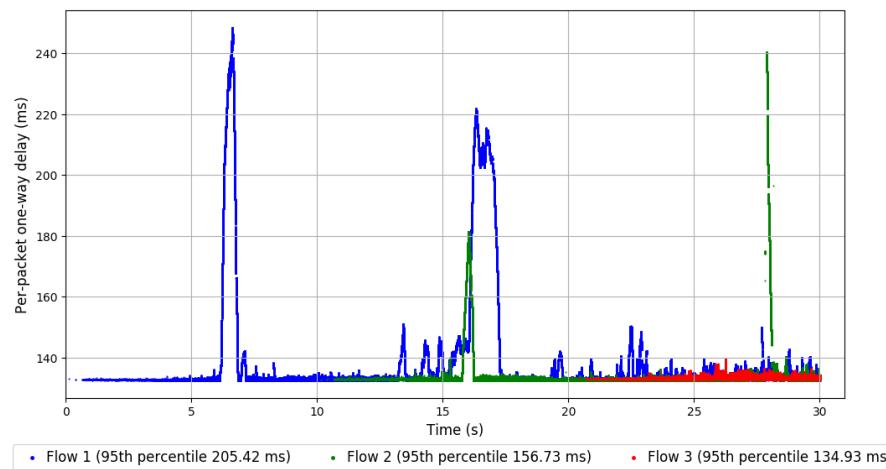
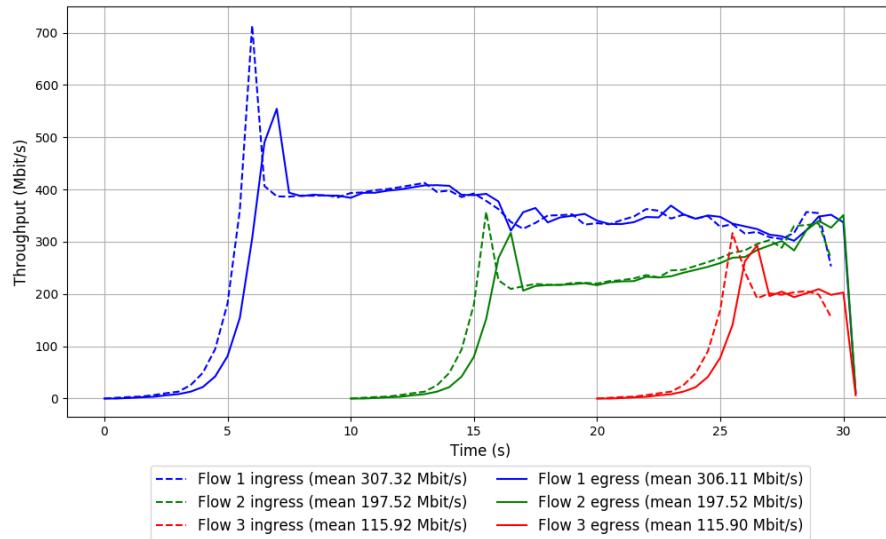


Run 3: Statistics of PCC-Vivace

```
Start at: 2018-12-12 00:28:03
End at: 2018-12-12 00:28:33
Local clock offset: -0.778 ms
Remote clock offset: -0.569 ms

# Below is generated by plot.py at 2018-12-12 04:35:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 475.68 Mbit/s
95th percentile per-packet one-way delay: 180.836 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 306.11 Mbit/s
95th percentile per-packet one-way delay: 205.423 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 197.52 Mbit/s
95th percentile per-packet one-way delay: 156.732 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 115.90 Mbit/s
95th percentile per-packet one-way delay: 134.926 ms
Loss rate: 0.03%
```

Run 3: Report of PCC-Vivace — Data Link

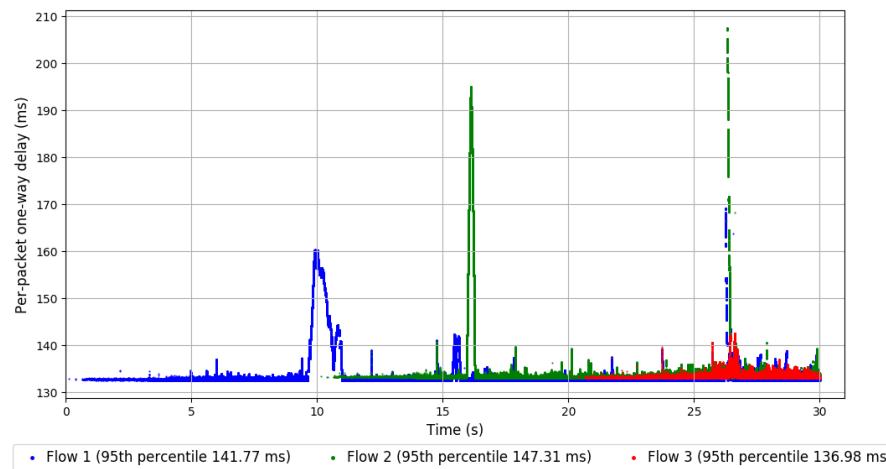
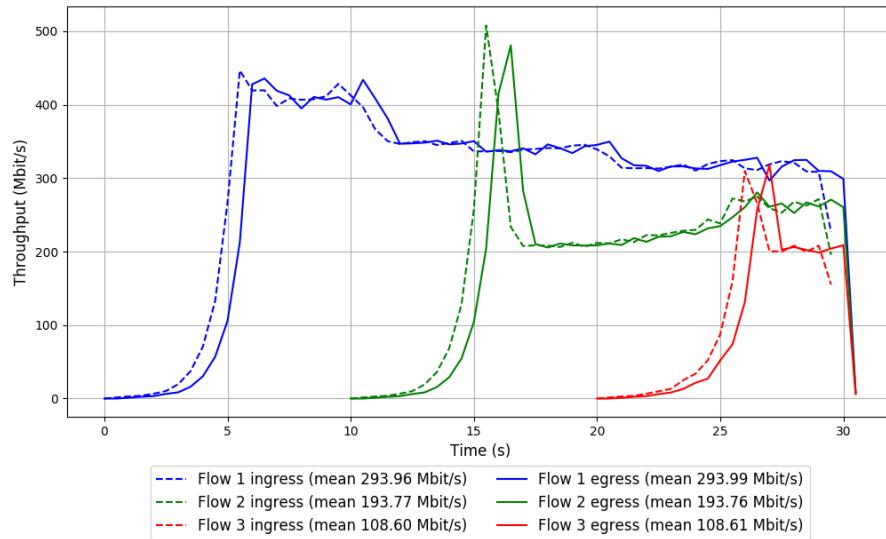


Run 4: Statistics of PCC-Vivace

```
Start at: 2018-12-12 01:03:50
End at: 2018-12-12 01:04:20
Local clock offset: 0.172 ms
Remote clock offset: -0.23 ms

# Below is generated by plot.py at 2018-12-12 04:35:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 458.67 Mbit/s
95th percentile per-packet one-way delay: 141.400 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 293.99 Mbit/s
95th percentile per-packet one-way delay: 141.768 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 193.76 Mbit/s
95th percentile per-packet one-way delay: 147.305 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 108.61 Mbit/s
95th percentile per-packet one-way delay: 136.976 ms
Loss rate: 0.00%
```

Run 4: Report of PCC-Vivace — Data Link

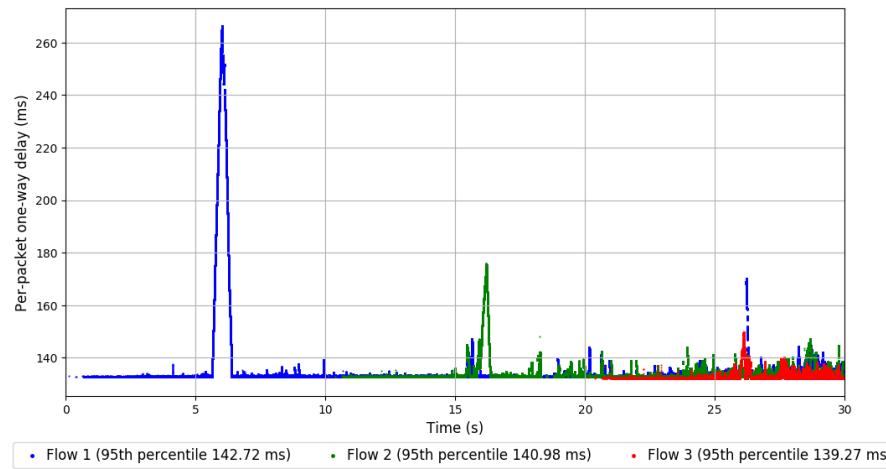
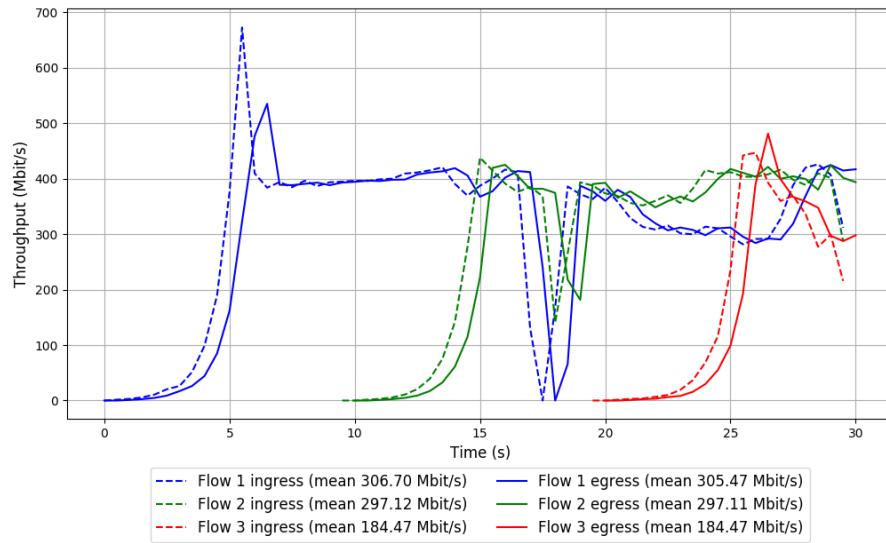


Run 5: Statistics of PCC-Vivace

```
Start at: 2018-12-12 01:40:03
End at: 2018-12-12 01:40:33
Local clock offset: 0.106 ms
Remote clock offset: -0.445 ms

# Below is generated by plot.py at 2018-12-12 04:35:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 564.12 Mbit/s
95th percentile per-packet one-way delay: 140.902 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 305.47 Mbit/s
95th percentile per-packet one-way delay: 142.721 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 297.11 Mbit/s
95th percentile per-packet one-way delay: 140.983 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 184.47 Mbit/s
95th percentile per-packet one-way delay: 139.273 ms
Loss rate: 0.00%
```

Run 5: Report of PCC-Vivace — Data Link

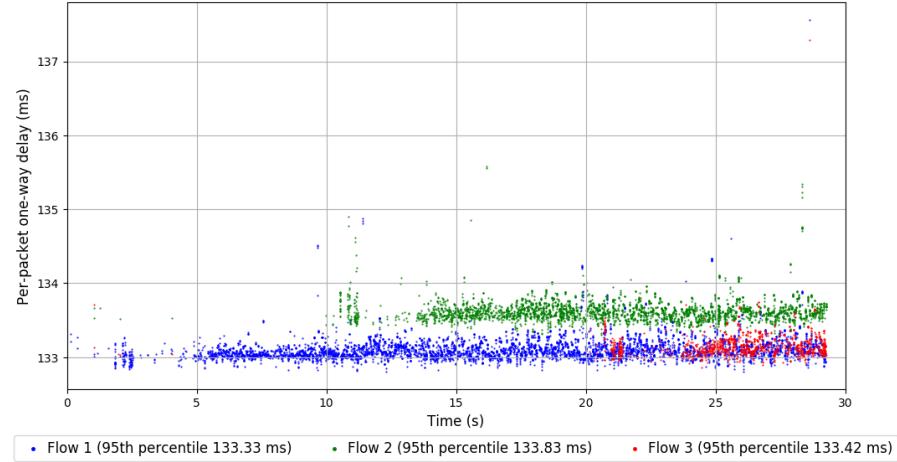
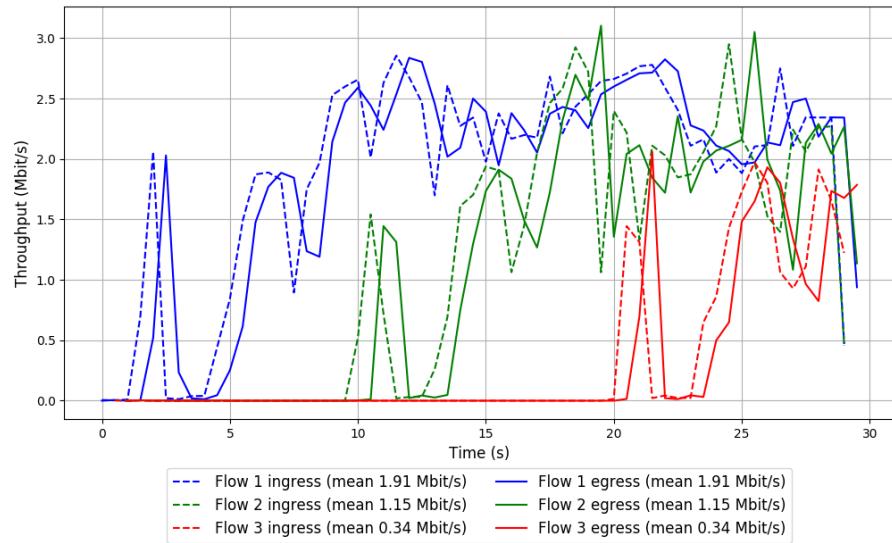


Run 1: Statistics of WebRTC media

```
Start at: 2018-12-11 23:36:28
End at: 2018-12-11 23:36:58
Local clock offset: -0.539 ms
Remote clock offset: 0.02 ms

# Below is generated by plot.py at 2018-12-12 04:35:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.35 Mbit/s
95th percentile per-packet one-way delay: 133.731 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.91 Mbit/s
95th percentile per-packet one-way delay: 133.326 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.15 Mbit/s
95th percentile per-packet one-way delay: 133.834 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 133.421 ms
Loss rate: 0.01%
```

Run 1: Report of WebRTC media — Data Link

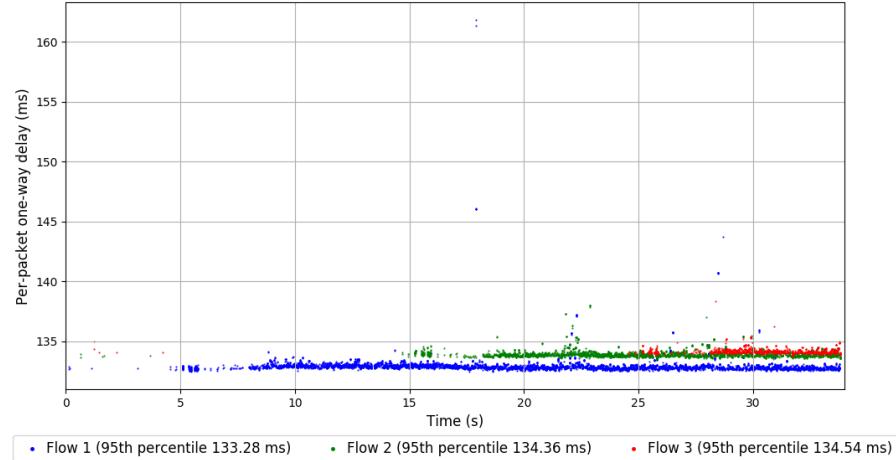
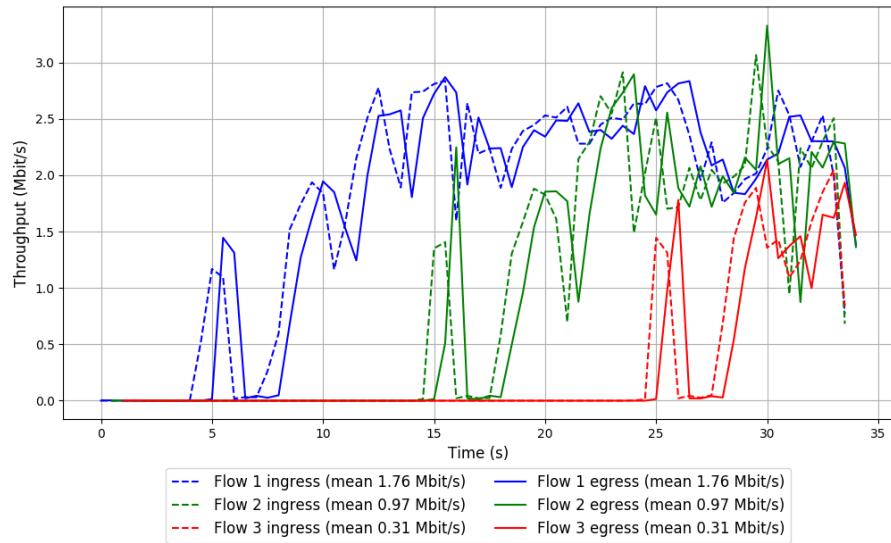


Run 2: Statistics of WebRTC media

```
Start at: 2018-12-12 00:12:35
End at: 2018-12-12 00:13:05
Local clock offset: -1.083 ms
Remote clock offset: -0.109 ms

# Below is generated by plot.py at 2018-12-12 04:35:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.01 Mbit/s
95th percentile per-packet one-way delay: 134.227 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.76 Mbit/s
95th percentile per-packet one-way delay: 133.280 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.97 Mbit/s
95th percentile per-packet one-way delay: 134.356 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.31 Mbit/s
95th percentile per-packet one-way delay: 134.543 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

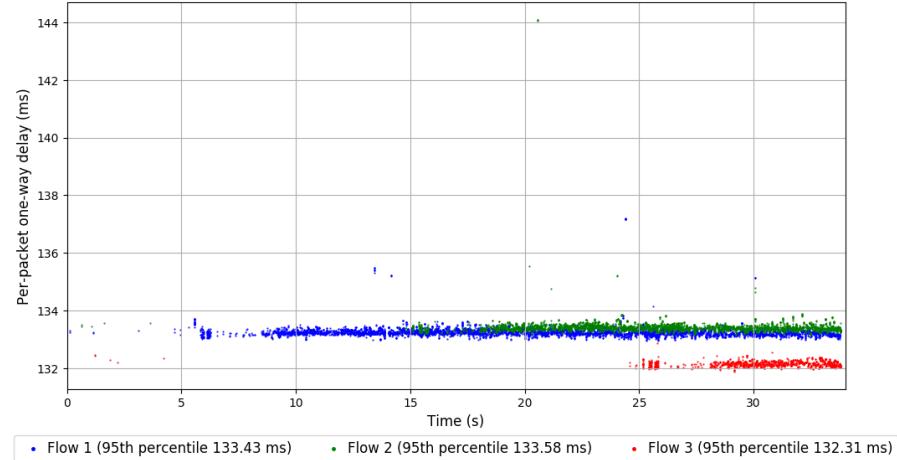
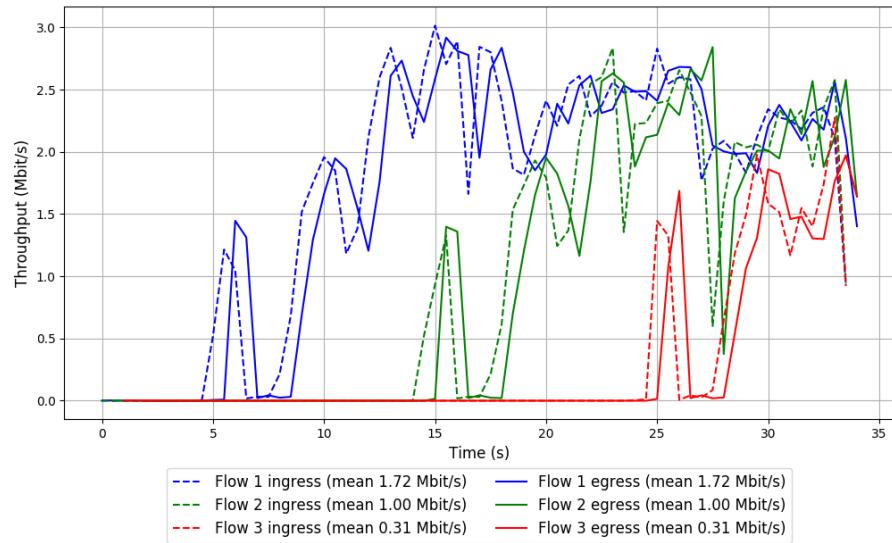


Run 3: Statistics of WebRTC media

```
Start at: 2018-12-12 00:49:06
End at: 2018-12-12 00:49:36
Local clock offset: -0.302 ms
Remote clock offset: -0.638 ms

# Below is generated by plot.py at 2018-12-12 04:35:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.01 Mbit/s
95th percentile per-packet one-way delay: 133.516 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.72 Mbit/s
95th percentile per-packet one-way delay: 133.428 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.00 Mbit/s
95th percentile per-packet one-way delay: 133.578 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.31 Mbit/s
95th percentile per-packet one-way delay: 132.312 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

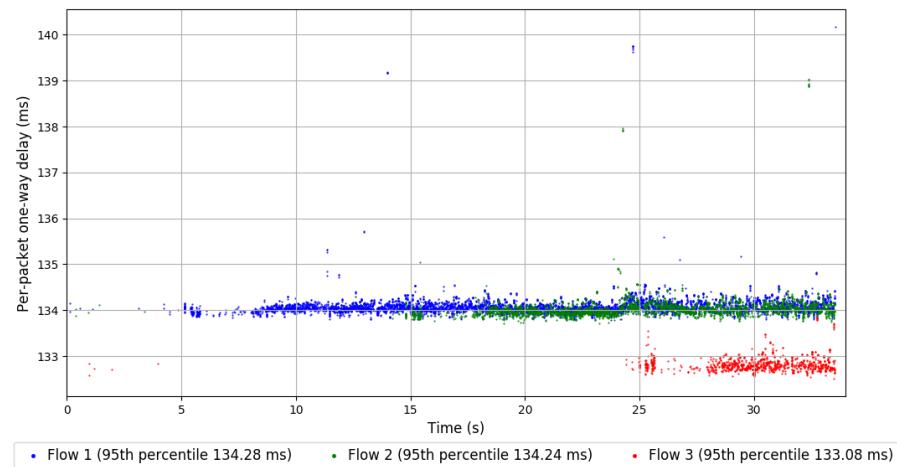
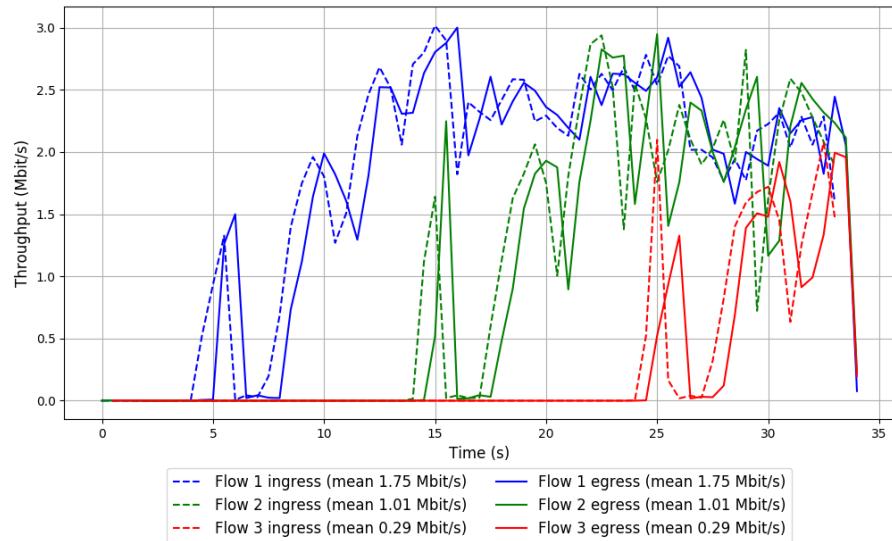


Run 4: Statistics of WebRTC media

```
Start at: 2018-12-12 01:24:54
End at: 2018-12-12 01:25:24
Local clock offset: -0.498 ms
Remote clock offset: -0.03 ms

# Below is generated by plot.py at 2018-12-12 04:35:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.03 Mbit/s
95th percentile per-packet one-way delay: 134.260 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.75 Mbit/s
95th percentile per-packet one-way delay: 134.281 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.01 Mbit/s
95th percentile per-packet one-way delay: 134.243 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 133.081 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



```
Run 5: Statistics of WebRTC media

Start at: 2018-12-12 02:01:30
End at: 2018-12-12 02:02:00
Local clock offset: 0.212 ms
Remote clock offset: -0.106 ms

# Below is generated by plot.py at 2018-12-12 04:35:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.11 Mbit/s
95th percentile per-packet one-way delay: 133.463 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.83 Mbit/s
95th percentile per-packet one-way delay: 133.514 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.99 Mbit/s
95th percentile per-packet one-way delay: 132.146 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.31 Mbit/s
95th percentile per-packet one-way delay: 132.515 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

