

Pantheon Report

Generated at 2017-08-21 10:37:04 (UTC).

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

Repeated the test of 15 congestion control schemes 10 times.

Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.

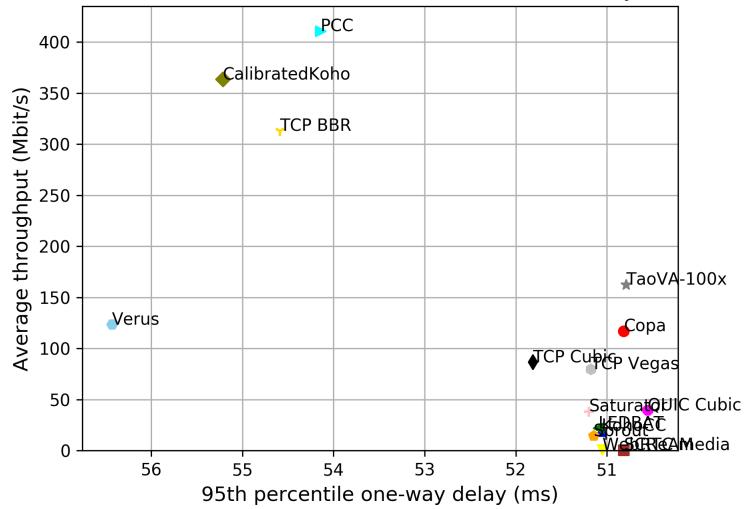
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

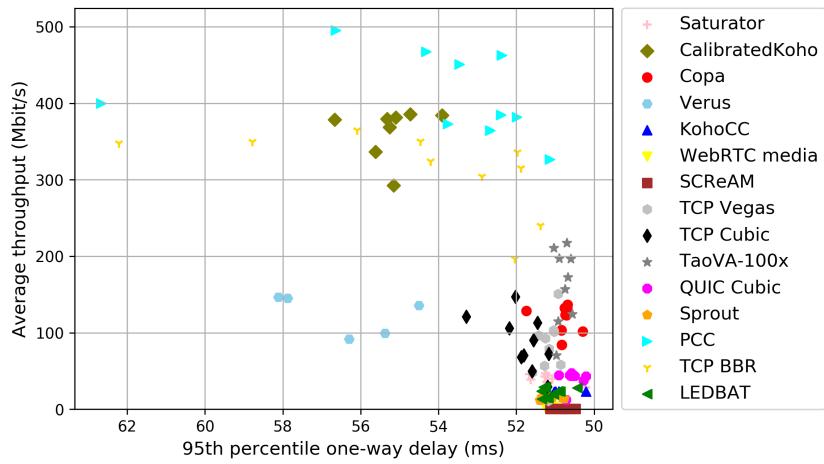
Git summary:

```
branch: master @ e43be7582298d552838afcfc6382342bf187fbbd6
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
M datagrump/sender.cc
third_party/genericCC @ dae96123232f1bcb37725348fa2378691ce26725
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-stimuli @ fc73a85ca16c34366d1888dc8a0d0d88d4ebf2a7
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
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/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeeb30b267cde681
third_party/sprout @ 6f2efef6e088d91066a9f023df375eee2665089ce
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/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



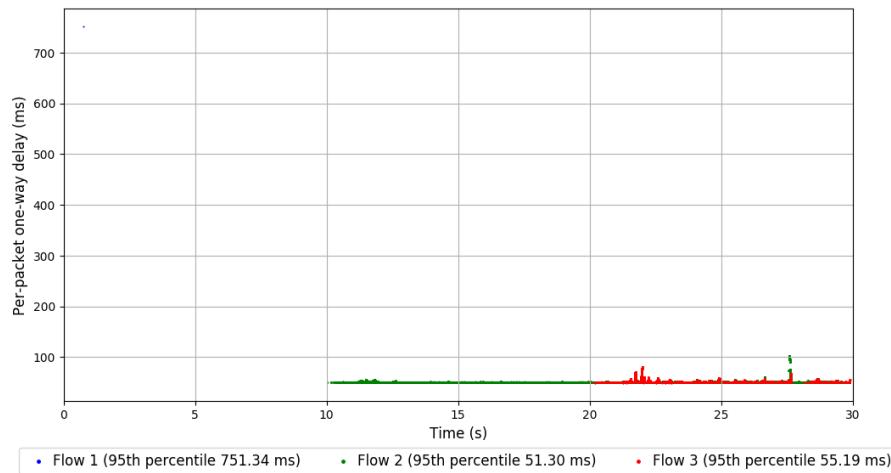
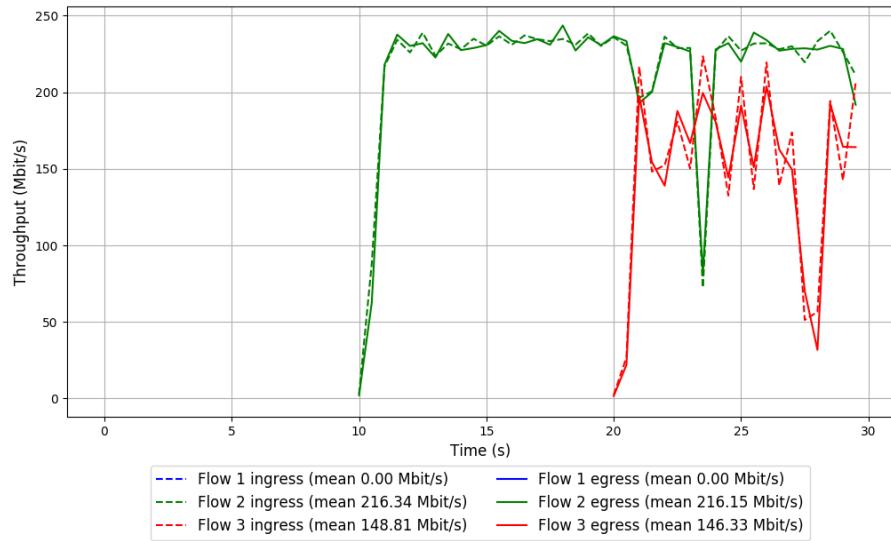
| scheme | # runs | mean avg tput (Mbit/s) | | | mean 95th-%ile delay (ms) | | | mean loss rate (%) | | |
|----------------|--------|------------------------|--------|--------|---------------------------|--------|--------|--------------------|--------|--------|
| | | flow 1 | flow 2 | flow 3 | flow 1 | flow 2 | flow 3 | flow 1 | flow 2 | flow 3 |
| TCP BBR | 10 | 144.61 | 180.76 | 145.51 | 123.58 | 54.27 | 57.27 | 2.55 | 1.67 | 6.63 |
| CalibratedKoho | 8 | 224.92 | 154.64 | 109.91 | 55.25 | 55.10 | 53.49 | 2.27 | 9.42 | 3.73 |
| Copa | 10 | 70.34 | 48.49 | 45.45 | 51.05 | 50.58 | 50.55 | 0.26 | 9.50 | 0.97 |
| TCP Cubic | 10 | 36.31 | 56.61 | 38.56 | 51.70 | 51.50 | 51.60 | 1.13 | 1.27 | 3.32 |
| KohoCC | 10 | 9.55 | 9.92 | 9.96 | 50.98 | 51.04 | 50.98 | 14.52 | 13.13 | 11.82 |
| LEDBAT | 10 | 13.05 | 10.33 | 6.15 | 51.11 | 51.02 | 51.09 | 0.90 | 1.22 | 3.73 |
| PCC | 10 | 279.45 | 138.75 | 122.57 | 58.05 | 51.91 | 51.16 | 8.65 | 3.77 | 6.01 |
| QUIC Cubic | 8 | 0.06 | 41.96 | 34.79 | 50.17 | 50.40 | 50.16 | 0.00 | 0.49 | 1.23 |
| Saturator | 10 | 22.47 | 20.09 | 19.57 | 51.18 | 51.22 | 51.10 | 1.82 | 8.37 | 10.76 |
| SCReAM | 10 | 0.22 | 0.22 | 0.22 | 50.66 | 50.34 | 50.64 | 0.25 | 0.46 | 0.93 |
| Sprout | 10 | 6.91 | 7.50 | 7.46 | 51.14 | 51.11 | 51.17 | 4.23 | 1.89 | 1.60 |
| TaoVA-100x | 9 | 186.89 | 144.80 | 122.60 | 50.73 | 50.65 | 50.70 | 0.34 | 1.08 | 0.77 |
| TCP Vegas | 10 | 48.53 | 33.95 | 26.27 | 51.09 | 51.12 | 51.74 | 0.65 | 1.05 | 2.66 |
| Verus | 5 | 70.46 | 57.22 | 45.37 | 56.41 | 56.50 | 54.65 | 22.99 | 10.73 | 3.11 |
| WebRTC media | 4 | 0.39 | 0.34 | 0.10 | 50.99 | 50.52 | 50.07 | 0.11 | 0.00 | 0.00 |

```
Run 1: Statistics of TCP BBR

Start at: 2017-08-21 05:28:43
End at: 2017-08-21 05:29:13

# Below is generated by plot.py at 2017-08-21 10:08:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 196.48 Mbit/s
95th percentile per-packet one-way delay: 52.040 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 751.340 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 216.15 Mbit/s
95th percentile per-packet one-way delay: 51.298 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 146.33 Mbit/s
95th percentile per-packet one-way delay: 55.192 ms
Loss rate: 2.45%
```

Run 1: Report of TCP BBR — Data Link



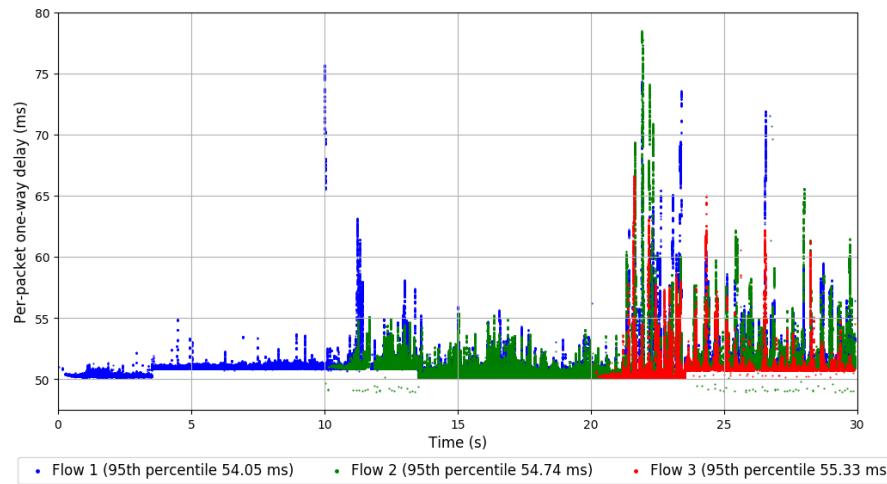
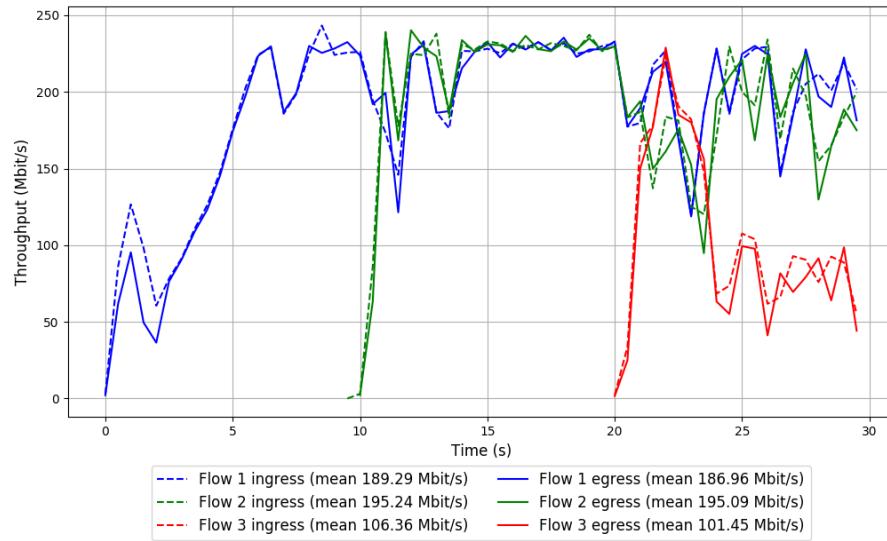
Run 2: Statistics of TCP BBR

Start at: 2017-08-21 05:40:22

End at: 2017-08-21 05:40:52

```
# Below is generated by plot.py at 2017-08-21 10:09:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 350.04 Mbit/s
95th percentile per-packet one-way delay: 54.462 ms
Loss rate: 1.59%
-- Flow 1:
Average throughput: 186.96 Mbit/s
95th percentile per-packet one-way delay: 54.048 ms
Loss rate: 1.54%
-- Flow 2:
Average throughput: 195.09 Mbit/s
95th percentile per-packet one-way delay: 54.745 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 101.45 Mbit/s
95th percentile per-packet one-way delay: 55.332 ms
Loss rate: 5.32%
```

Run 2: Report of TCP BBR — Data Link



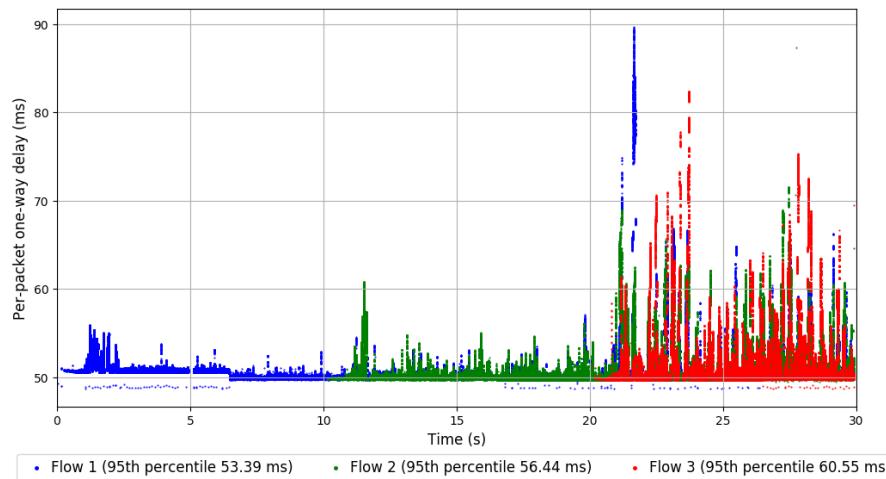
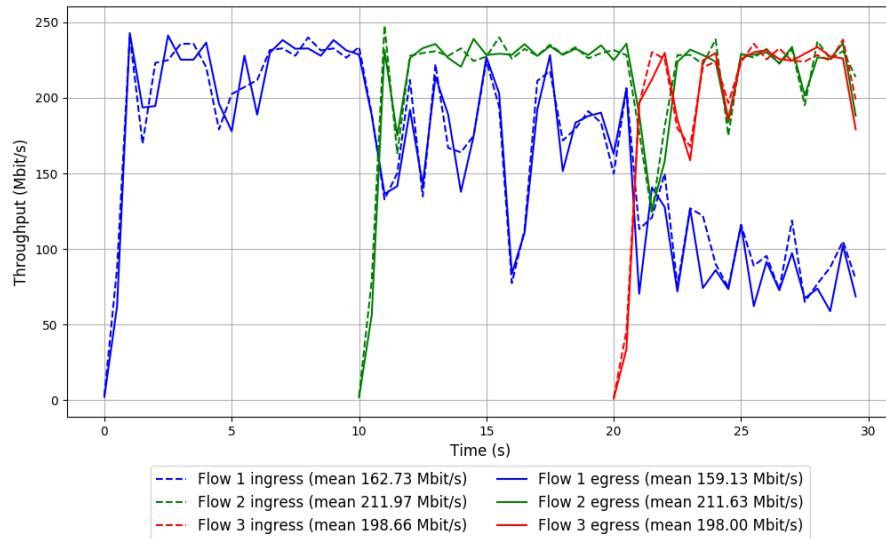
Run 3: Statistics of TCP BBR

Start at: 2017-08-21 05:52:00

End at: 2017-08-21 05:52:30

```
# Below is generated by plot.py at 2017-08-21 10:09:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 364.79 Mbit/s
95th percentile per-packet one-way delay: 56.087 ms
Loss rate: 1.58%
-- Flow 1:
Average throughput: 159.13 Mbit/s
95th percentile per-packet one-way delay: 53.391 ms
Loss rate: 2.53%
-- Flow 2:
Average throughput: 211.63 Mbit/s
95th percentile per-packet one-way delay: 56.441 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 198.00 Mbit/s
95th percentile per-packet one-way delay: 60.553 ms
Loss rate: 1.35%
```

Run 3: Report of TCP BBR — Data Link



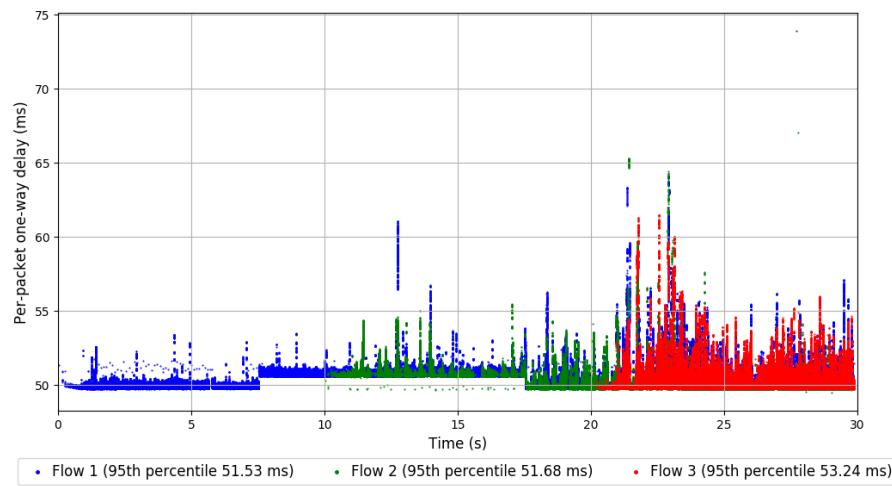
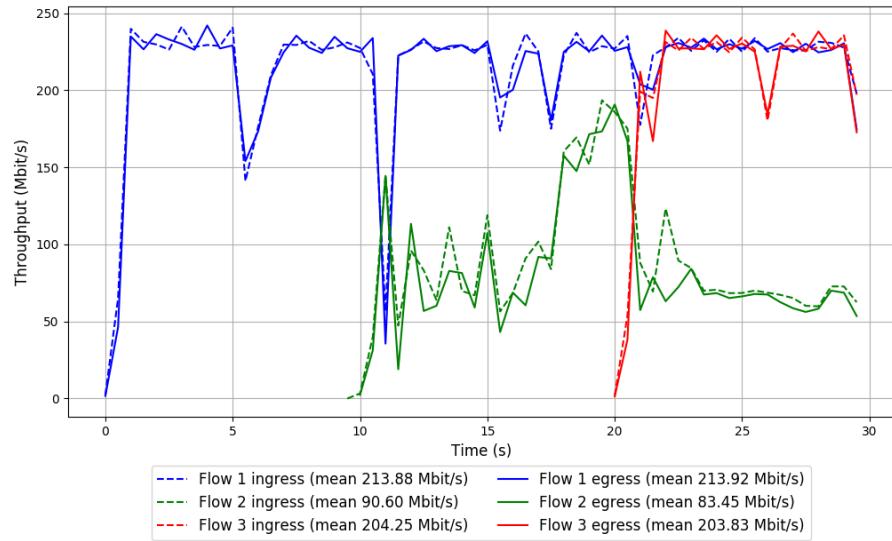
Run 4: Statistics of TCP BBR

Start at: 2017-08-21 06:03:48

End at: 2017-08-21 06:04:18

```
# Below is generated by plot.py at 2017-08-21 10:10:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 336.23 Mbit/s
95th percentile per-packet one-way delay: 51.975 ms
Loss rate: 1.99%
-- Flow 1:
Average throughput: 213.92 Mbit/s
95th percentile per-packet one-way delay: 51.530 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 83.45 Mbit/s
95th percentile per-packet one-way delay: 51.680 ms
Loss rate: 8.50%
-- Flow 3:
Average throughput: 203.83 Mbit/s
95th percentile per-packet one-way delay: 53.242 ms
Loss rate: 1.28%
```

Run 4: Report of TCP BBR — Data Link



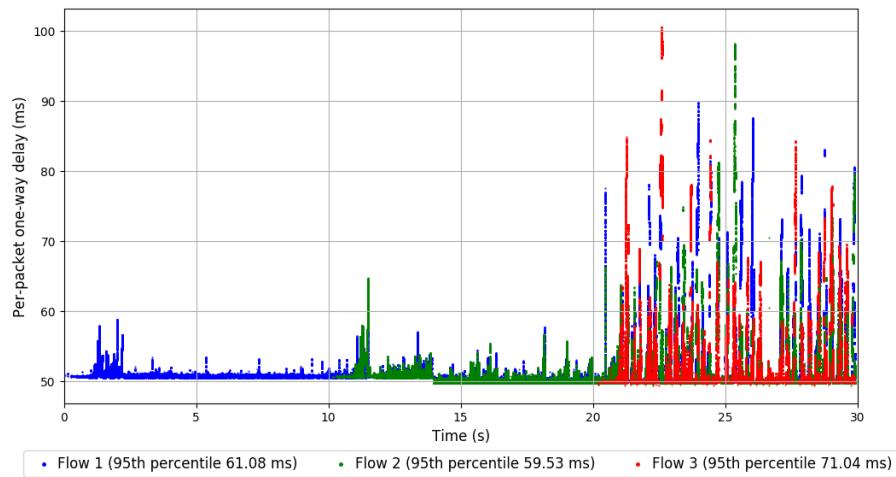
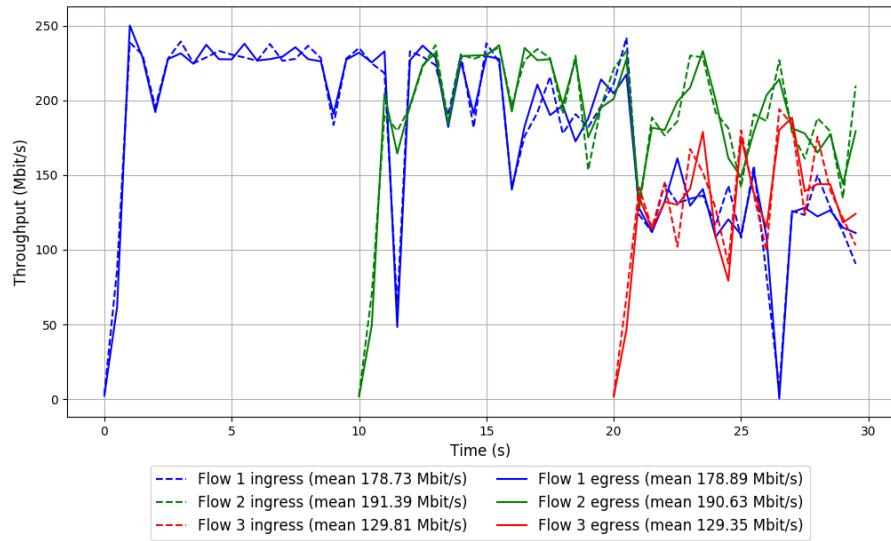
Run 5: Statistics of TCP BBR

Start at: 2017-08-21 06:15:32

End at: 2017-08-21 06:16:02

```
# Below is generated by plot.py at 2017-08-21 10:10:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 347.84 Mbit/s
95th percentile per-packet one-way delay: 62.210 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 178.89 Mbit/s
95th percentile per-packet one-way delay: 61.081 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 190.63 Mbit/s
95th percentile per-packet one-way delay: 59.534 ms
Loss rate: 0.90%
-- Flow 3:
Average throughput: 129.35 Mbit/s
95th percentile per-packet one-way delay: 71.043 ms
Loss rate: 1.37%
```

Run 5: Report of TCP BBR — Data Link



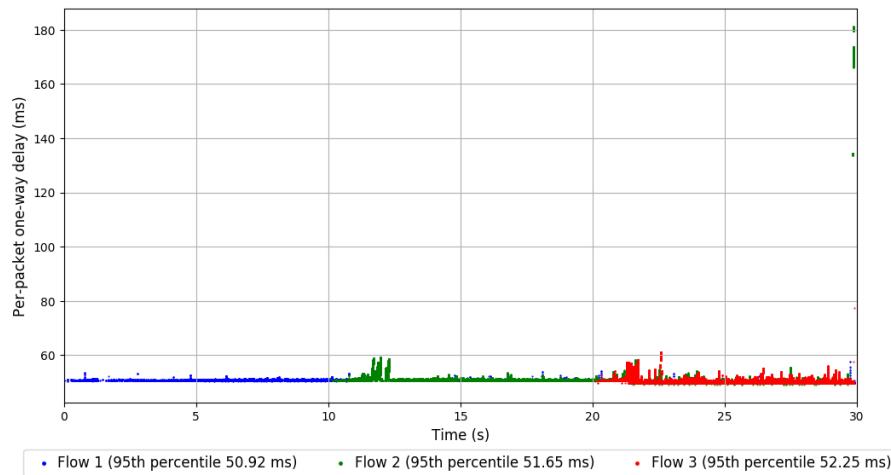
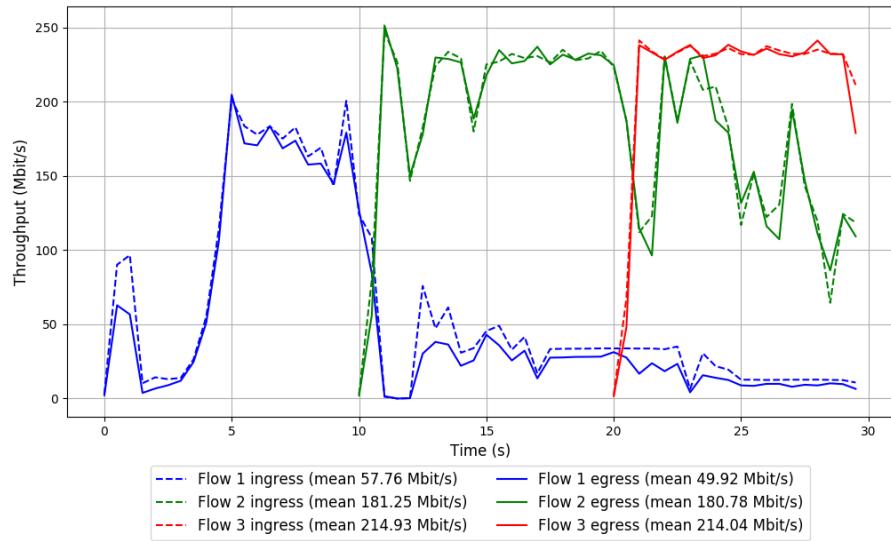
Run 6: Statistics of TCP BBR

Start at: 2017-08-21 06:27:45

End at: 2017-08-21 06:28:15

```
# Below is generated by plot.py at 2017-08-21 10:10:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 240.33 Mbit/s
95th percentile per-packet one-way delay: 51.377 ms
Loss rate: 3.97%
-- Flow 1:
Average throughput: 49.92 Mbit/s
95th percentile per-packet one-way delay: 50.922 ms
Loss rate: 13.86%
-- Flow 2:
Average throughput: 180.78 Mbit/s
95th percentile per-packet one-way delay: 51.653 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 214.04 Mbit/s
95th percentile per-packet one-way delay: 52.253 ms
Loss rate: 1.25%
```

Run 6: Report of TCP BBR — Data Link



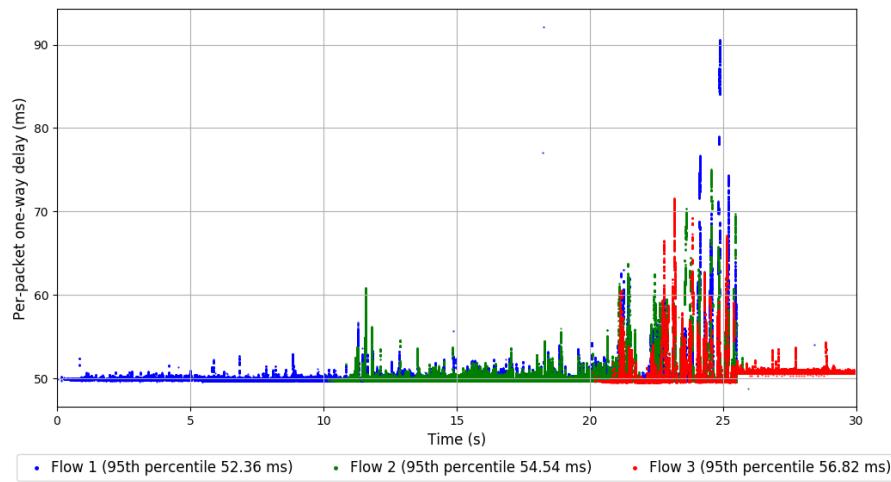
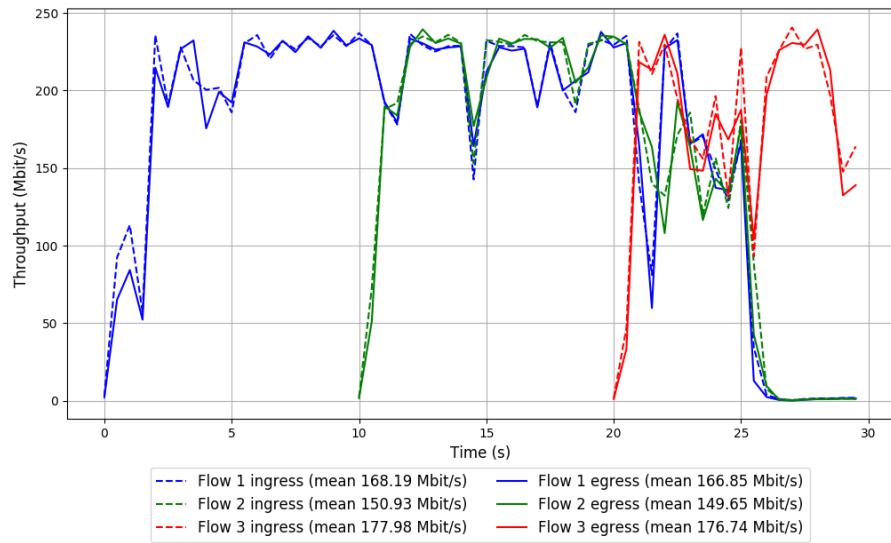
Run 7: Statistics of TCP BBR

Start at: 2017-08-21 06:40:01

End at: 2017-08-21 06:40:31

```
# Below is generated by plot.py at 2017-08-21 10:11:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 324.10 Mbit/s
95th percentile per-packet one-way delay: 54.206 ms
Loss rate: 1.39%
-- Flow 1:
Average throughput: 166.85 Mbit/s
95th percentile per-packet one-way delay: 52.359 ms
Loss rate: 1.20%
-- Flow 2:
Average throughput: 149.65 Mbit/s
95th percentile per-packet one-way delay: 54.542 ms
Loss rate: 1.44%
-- Flow 3:
Average throughput: 176.74 Mbit/s
95th percentile per-packet one-way delay: 56.819 ms
Loss rate: 1.85%
```

Run 7: Report of TCP BBR — Data Link



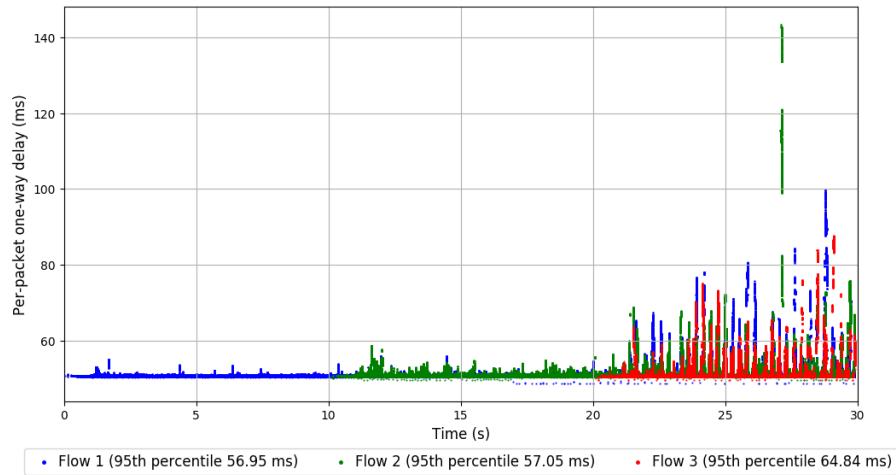
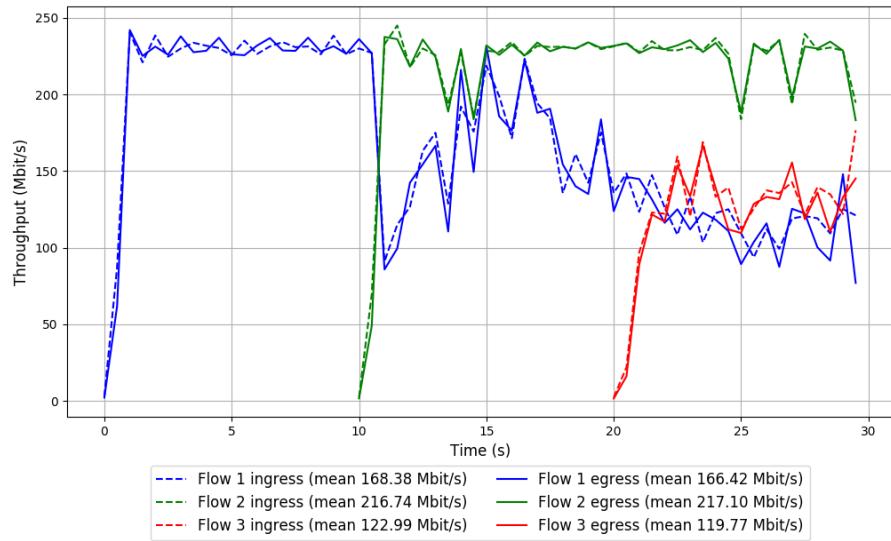
Run 8: Statistics of TCP BBR

Start at: 2017-08-21 06:51:59

End at: 2017-08-21 06:52:29

```
# Below is generated by plot.py at 2017-08-21 10:11:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 349.57 Mbit/s
95th percentile per-packet one-way delay: 58.782 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 166.42 Mbit/s
95th percentile per-packet one-way delay: 56.947 ms
Loss rate: 1.50%
-- Flow 2:
Average throughput: 217.10 Mbit/s
95th percentile per-packet one-way delay: 57.046 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 119.77 Mbit/s
95th percentile per-packet one-way delay: 64.841 ms
Loss rate: 3.44%
```

Run 8: Report of TCP BBR — Data Link



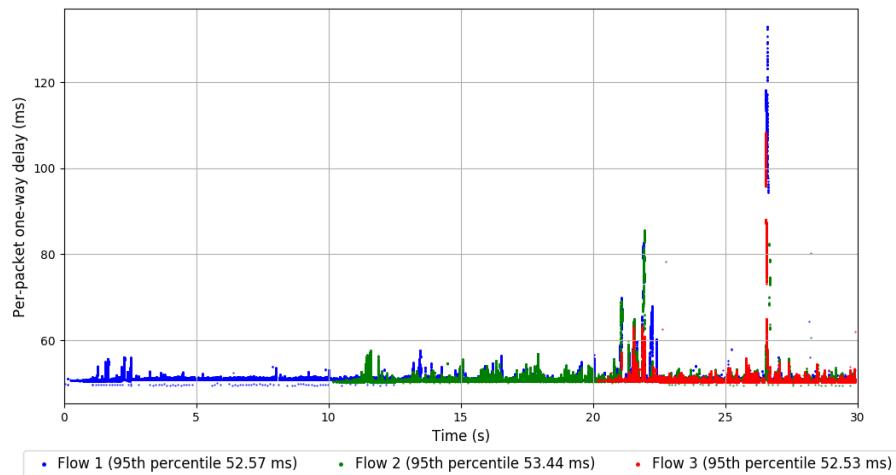
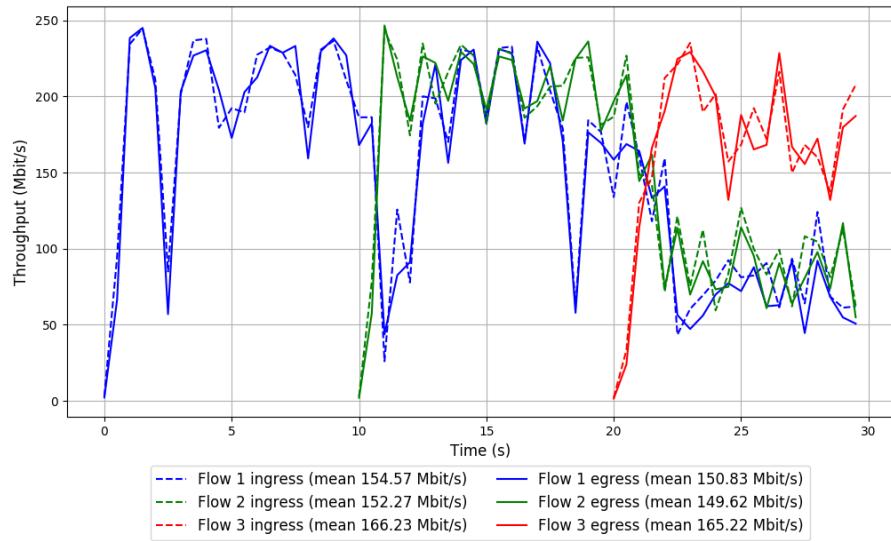
Run 9: Statistics of TCP BBR

Start at: 2017-08-21 07:03:44

End at: 2017-08-21 07:04:14

```
# Below is generated by plot.py at 2017-08-21 10:12:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 304.50 Mbit/s
95th percentile per-packet one-way delay: 52.884 ms
Loss rate: 2.37%
-- Flow 1:
Average throughput: 150.83 Mbit/s
95th percentile per-packet one-way delay: 52.569 ms
Loss rate: 2.81%
-- Flow 2:
Average throughput: 149.62 Mbit/s
95th percentile per-packet one-way delay: 53.439 ms
Loss rate: 2.16%
-- Flow 3:
Average throughput: 165.22 Mbit/s
95th percentile per-packet one-way delay: 52.528 ms
Loss rate: 1.55%
```

Run 9: Report of TCP BBR — Data Link



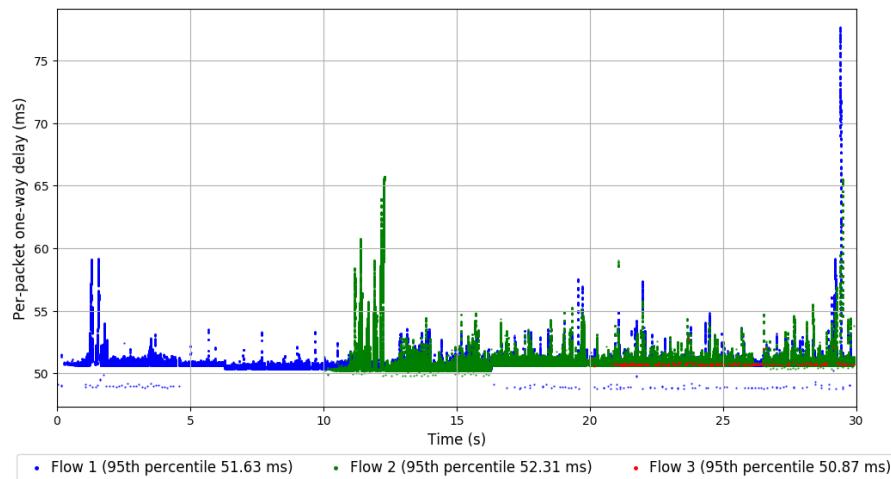
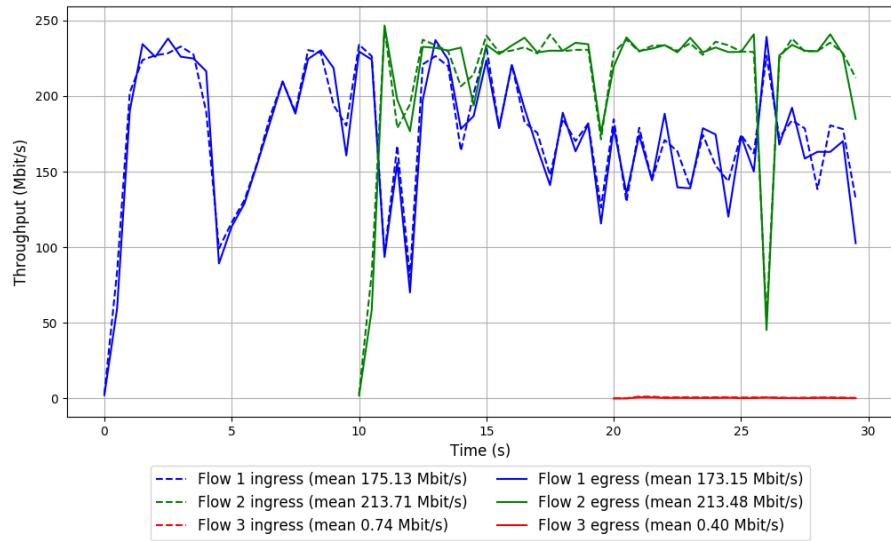
Run 10: Statistics of TCP BBR

Start at: 2017-08-21 07:15:30

End at: 2017-08-21 07:16:00

```
# Below is generated by plot.py at 2017-08-21 10:12:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 315.08 Mbit/s
95th percentile per-packet one-way delay: 51.879 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 173.15 Mbit/s
95th percentile per-packet one-way delay: 51.630 ms
Loss rate: 1.41%
-- Flow 2:
Average throughput: 213.48 Mbit/s
95th percentile per-packet one-way delay: 52.307 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 50.866 ms
Loss rate: 46.47%
```

Run 10: Report of TCP BBR — Data Link

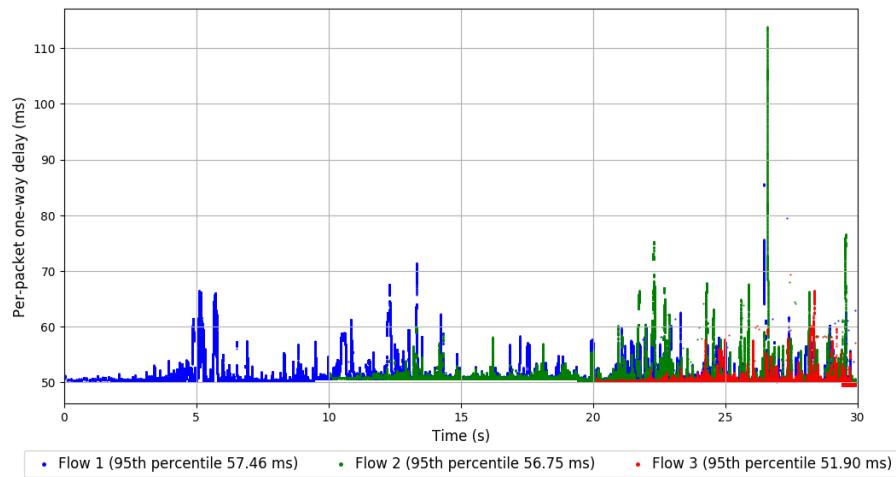
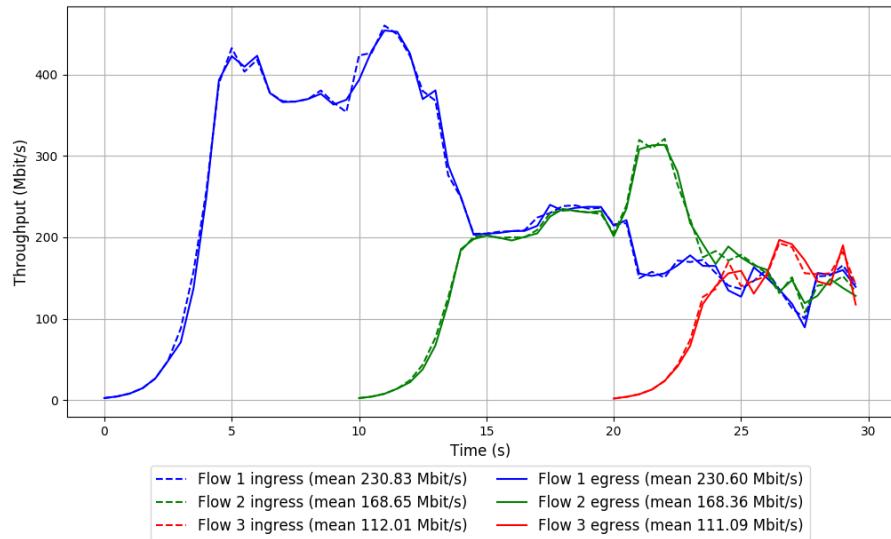


```
Run 1: Statistics of CalibratedKoho

Start at: 2017-08-21 05:32:07
End at: 2017-08-21 05:32:37

# Below is generated by plot.py at 2017-08-21 10:13:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 378.66 Mbit/s
95th percentile per-packet one-way delay: 56.668 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 230.60 Mbit/s
95th percentile per-packet one-way delay: 57.463 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 168.36 Mbit/s
95th percentile per-packet one-way delay: 56.751 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 111.09 Mbit/s
95th percentile per-packet one-way delay: 51.901 ms
Loss rate: 1.80%
```

Run 1: Report of CalibratedKoho — Data Link



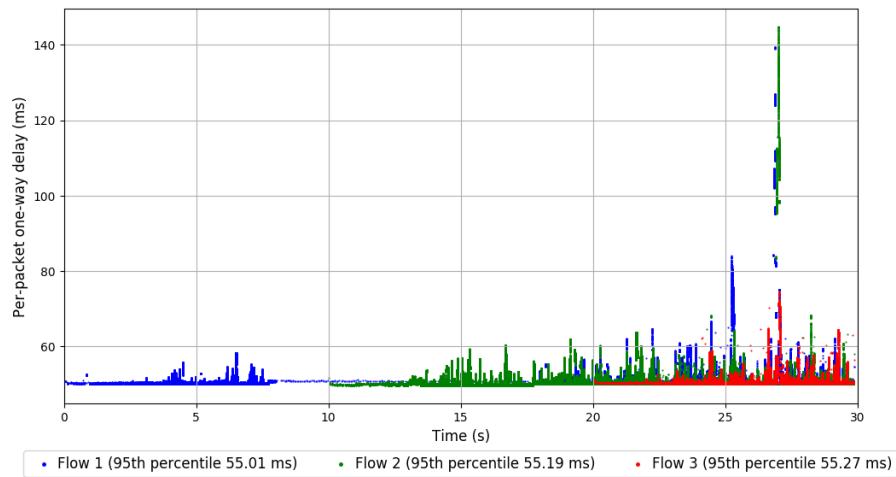
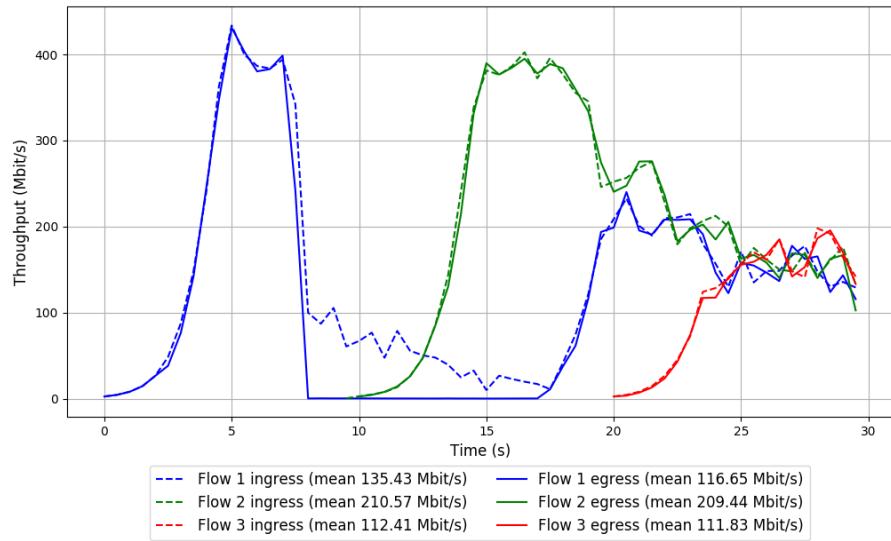
```
Run 2: Statistics of CalibratedKoho
```

```
Start at: 2017-08-21 05:43:38
```

```
End at: 2017-08-21 05:44:08
```

```
# Below is generated by plot.py at 2017-08-21 10:13:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 292.64 Mbit/s
95th percentile per-packet one-way delay: 55.151 ms
Loss rate: 6.78%
-- Flow 1:
Average throughput: 116.65 Mbit/s
95th percentile per-packet one-way delay: 55.010 ms
Loss rate: 14.17%
-- Flow 2:
Average throughput: 209.44 Mbit/s
95th percentile per-packet one-way delay: 55.192 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 111.83 Mbit/s
95th percentile per-packet one-way delay: 55.272 ms
Loss rate: 1.60%
```

Run 2: Report of CalibratedKoho — Data Link



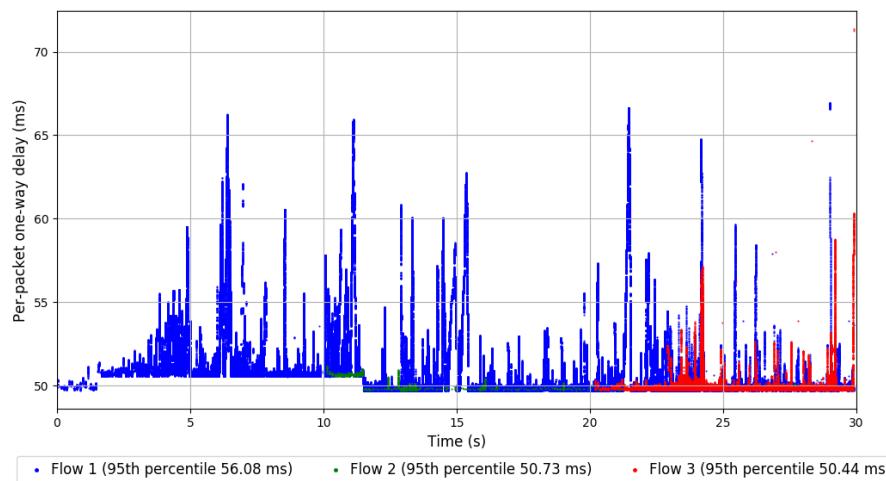
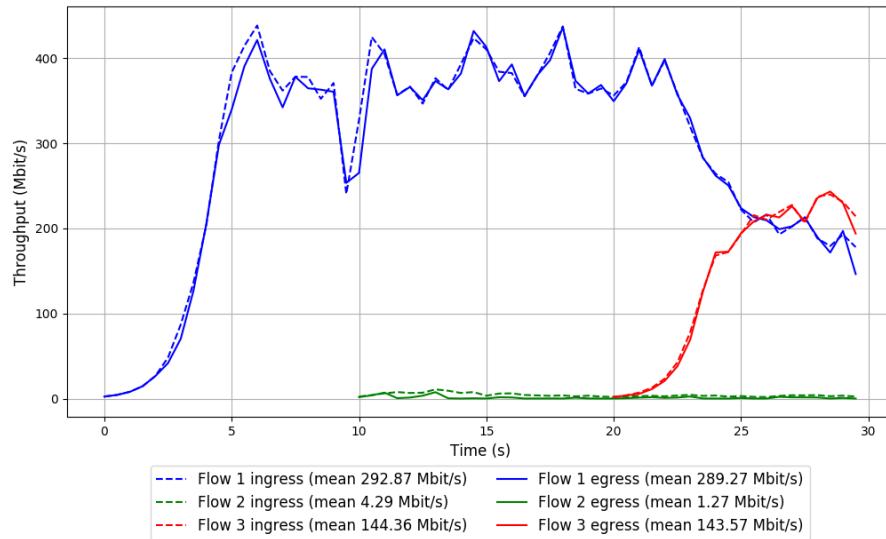
```
Run 3: Statistics of CalibratedKoho
```

```
Start at: 2017-08-21 05:55:24
```

```
End at: 2017-08-21 05:55:55
```

```
# Below is generated by plot.py at 2017-08-21 10:14:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 336.74 Mbit/s
95th percentile per-packet one-way delay: 55.617 ms
Loss rate: 2.13%
-- Flow 1:
Average throughput: 289.27 Mbit/s
95th percentile per-packet one-way delay: 56.083 ms
Loss rate: 1.56%
-- Flow 2:
Average throughput: 1.27 Mbit/s
95th percentile per-packet one-way delay: 50.734 ms
Loss rate: 70.63%
-- Flow 3:
Average throughput: 143.57 Mbit/s
95th percentile per-packet one-way delay: 50.435 ms
Loss rate: 1.53%
```

Run 3: Report of CalibratedKoho — Data Link

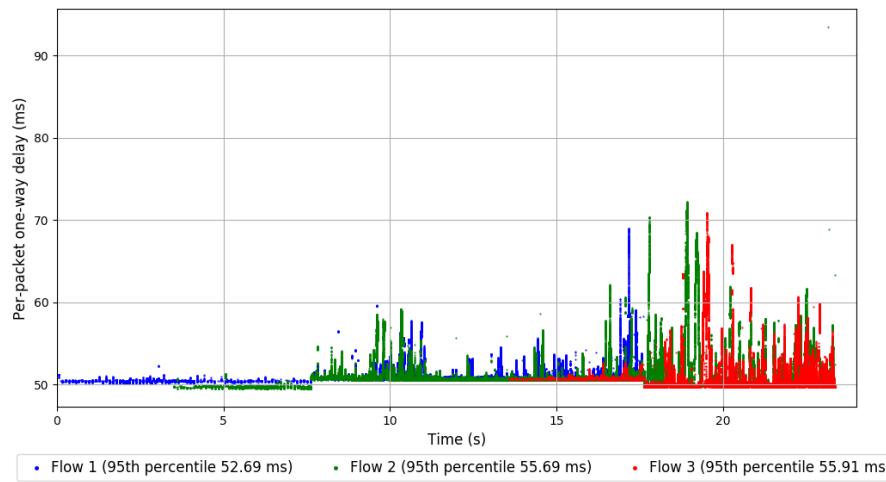
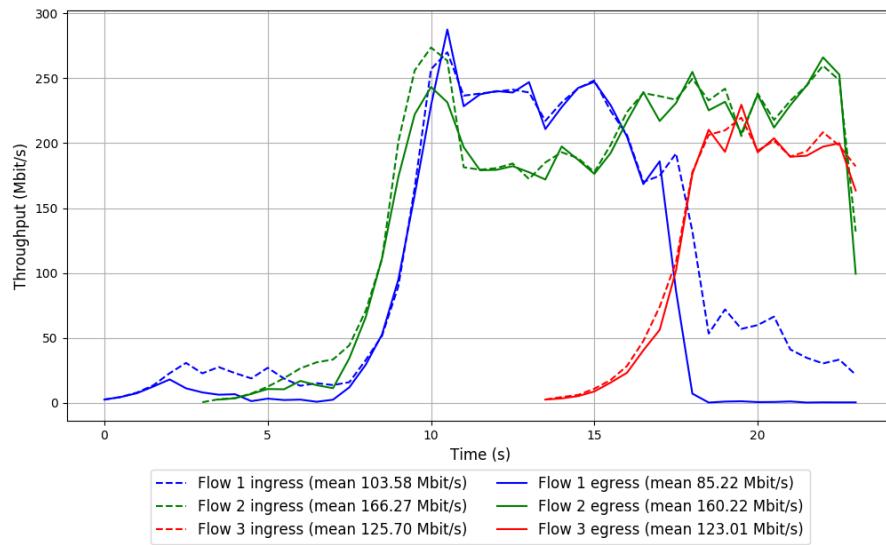


Run 4: Statistics of CalibratedKoho

Start at: 2017-08-21 06:07:12

End at: 2017-08-21 06:07:42

Run 4: Report of CalibratedKoho — Data Link



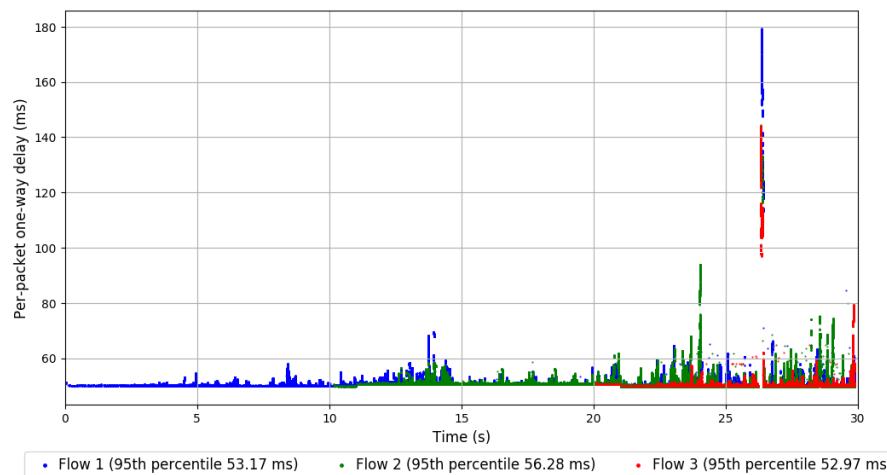
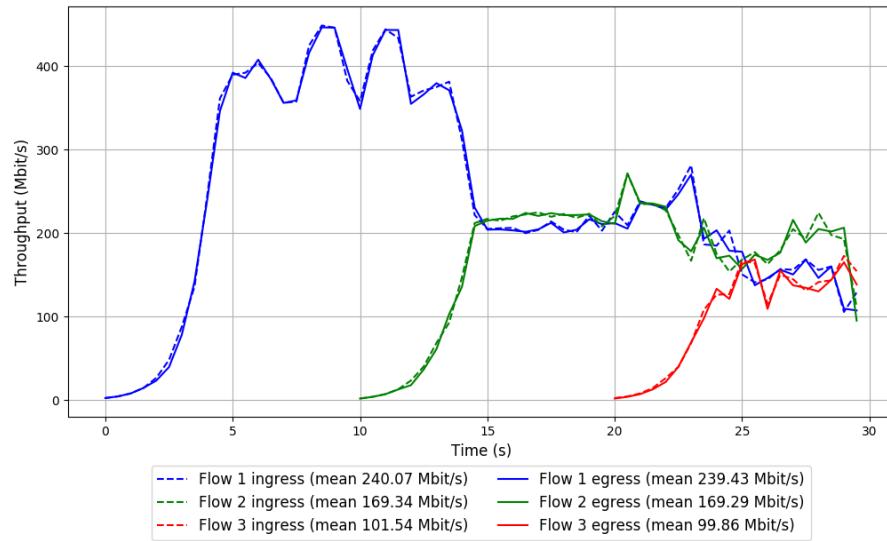
```
Run 5: Statistics of CalibratedKoho
```

```
Start at: 2017-08-21 06:19:05
```

```
End at: 2017-08-21 06:19:35
```

```
# Below is generated by plot.py at 2017-08-21 10:15:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 384.05 Mbit/s
95th percentile per-packet one-way delay: 53.904 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 239.43 Mbit/s
95th percentile per-packet one-way delay: 53.172 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 169.29 Mbit/s
95th percentile per-packet one-way delay: 56.282 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 99.86 Mbit/s
95th percentile per-packet one-way delay: 52.974 ms
Loss rate: 2.71%
```

Run 5: Report of CalibratedKoho — Data Link



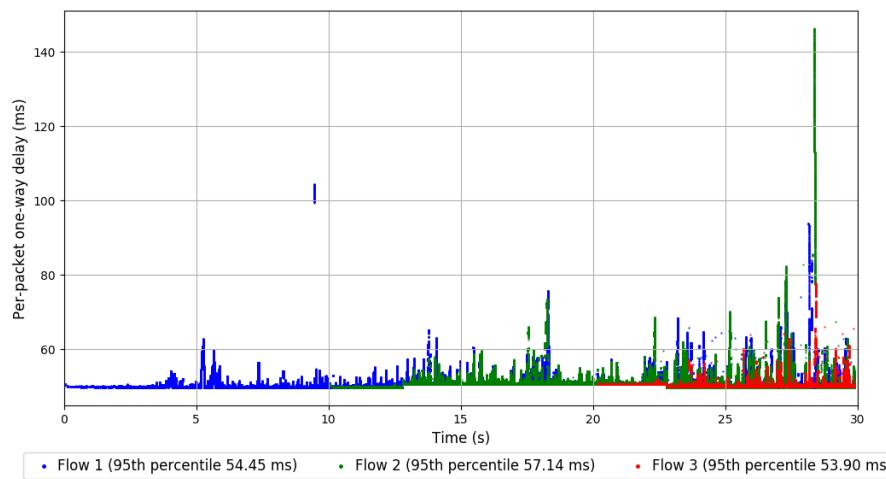
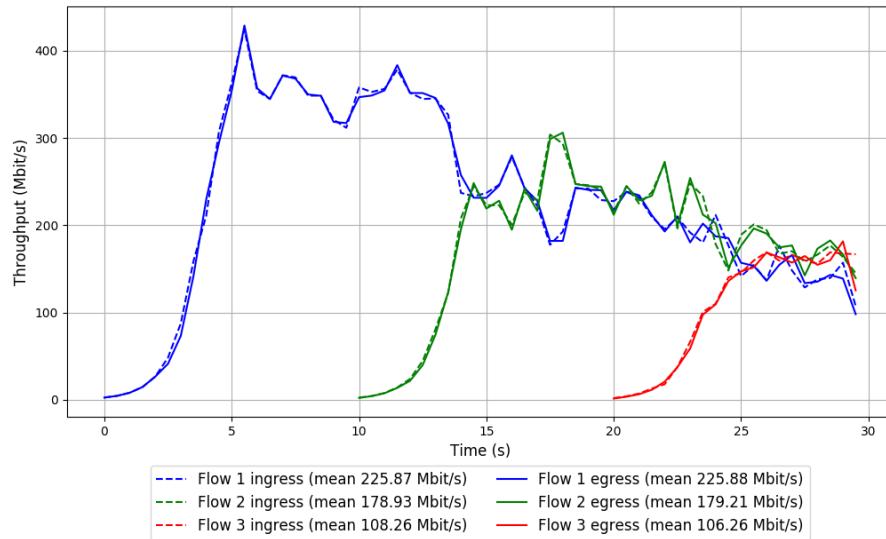
```
Run 6: Statistics of CalibratedKoho
```

```
Start at: 2017-08-21 06:31:03
```

```
End at: 2017-08-21 06:31:33
```

```
# Below is generated by plot.py at 2017-08-21 10:15:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 379.39 Mbit/s
95th percentile per-packet one-way delay: 55.321 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 225.88 Mbit/s
95th percentile per-packet one-way delay: 54.445 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 179.21 Mbit/s
95th percentile per-packet one-way delay: 57.142 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 106.26 Mbit/s
95th percentile per-packet one-way delay: 53.900 ms
Loss rate: 2.85%
```

Run 6: Report of CalibratedKoho — Data Link



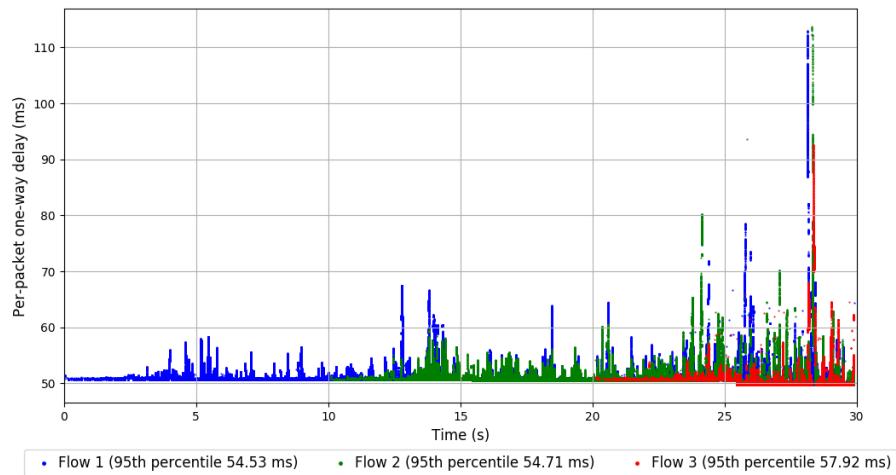
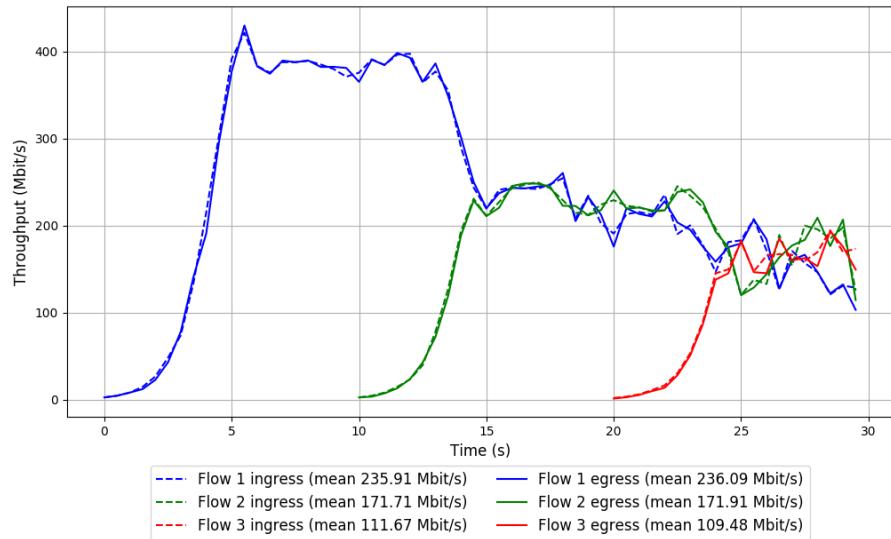
```
Run 7: Statistics of CalibratedKoho
```

```
Start at: 2017-08-21 06:43:21
```

```
End at: 2017-08-21 06:43:51
```

```
# Below is generated by plot.py at 2017-08-21 10:16:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 385.89 Mbit/s
95th percentile per-packet one-way delay: 54.724 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 236.09 Mbit/s
95th percentile per-packet one-way delay: 54.529 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 171.91 Mbit/s
95th percentile per-packet one-way delay: 54.707 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 109.48 Mbit/s
95th percentile per-packet one-way delay: 57.920 ms
Loss rate: 3.00%
```

Run 7: Report of CalibratedKoho — Data Link

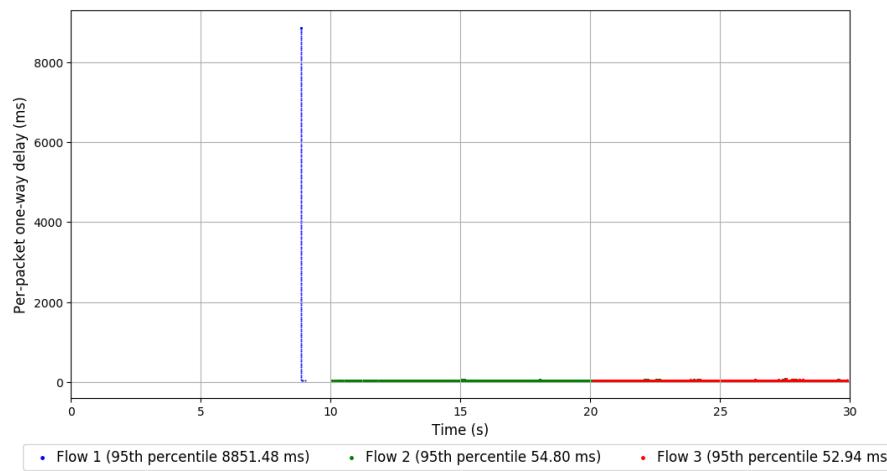
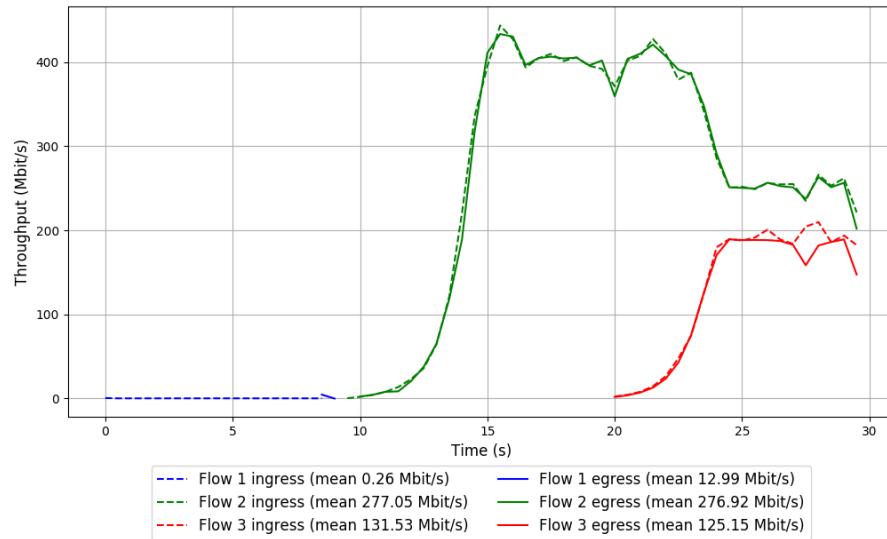


Run 8: Statistics of CalibratedKoho

Start at: 2017-08-21 06:55:21

End at: 2017-08-21 06:55:51

Run 8: Report of CalibratedKoho — Data Link



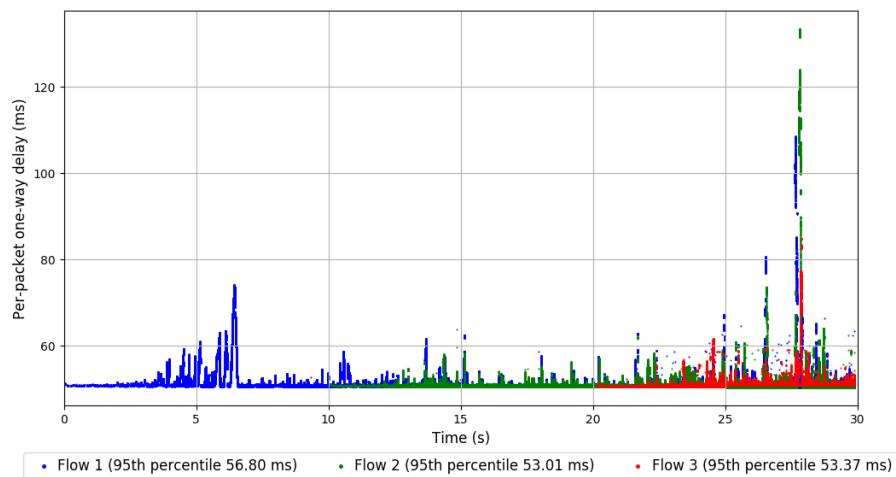
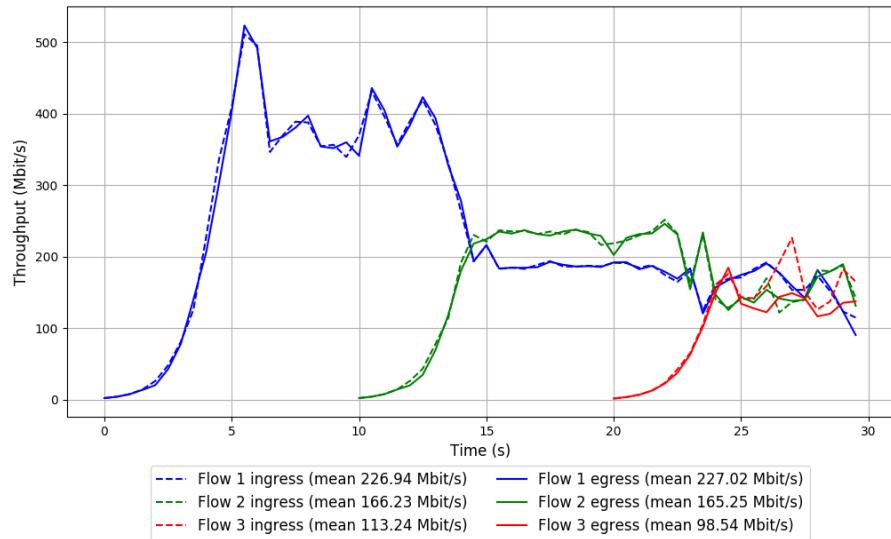
```
Run 9: Statistics of CalibratedKoho
```

```
Start at: 2017-08-21 07:07:11
```

```
End at: 2017-08-21 07:07:41
```

```
# Below is generated by plot.py at 2017-08-21 10:17:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 368.86 Mbit/s
95th percentile per-packet one-way delay: 55.257 ms
Loss rate: 1.87%
-- Flow 1:
Average throughput: 227.02 Mbit/s
95th percentile per-packet one-way delay: 56.800 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 165.25 Mbit/s
95th percentile per-packet one-way delay: 53.009 ms
Loss rate: 1.07%
-- Flow 3:
Average throughput: 98.54 Mbit/s
95th percentile per-packet one-way delay: 53.368 ms
Loss rate: 13.89%
```

Run 9: Report of CalibratedKoho — Data Link



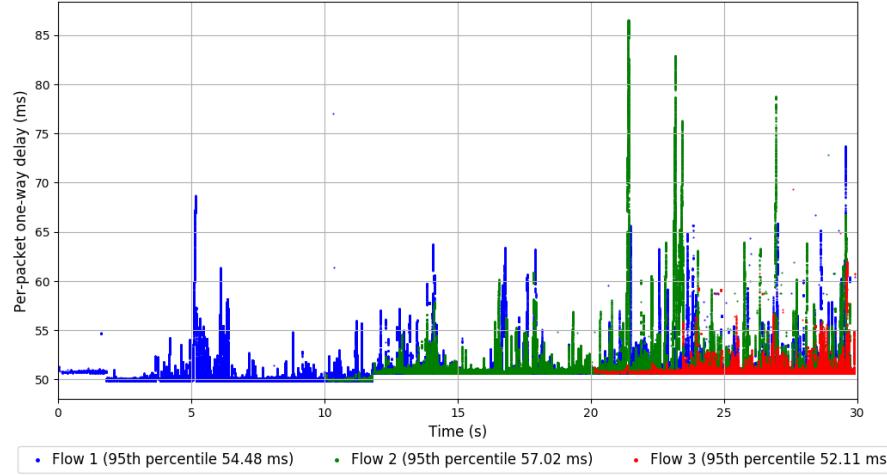
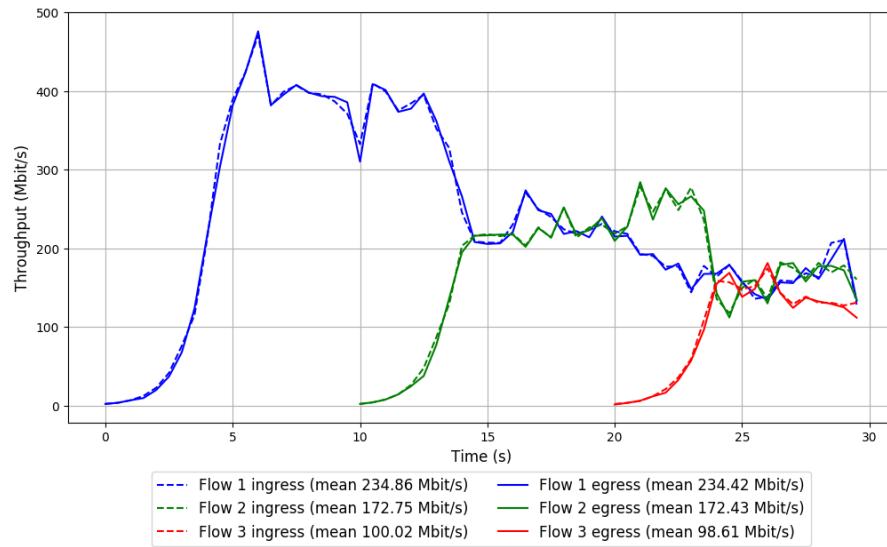
```
Run 10: Statistics of CalibratedKoho
```

```
Start at: 2017-08-21 07:18:44
```

```
End at: 2017-08-21 07:19:14
```

```
# Below is generated by plot.py at 2017-08-21 10:17:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 381.18 Mbit/s
95th percentile per-packet one-way delay: 55.093 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 234.42 Mbit/s
95th percentile per-packet one-way delay: 54.476 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 172.43 Mbit/s
95th percentile per-packet one-way delay: 57.020 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 98.61 Mbit/s
95th percentile per-packet one-way delay: 52.111 ms
Loss rate: 2.47%
```

Run 10: Report of CalibratedKoho — Data Link

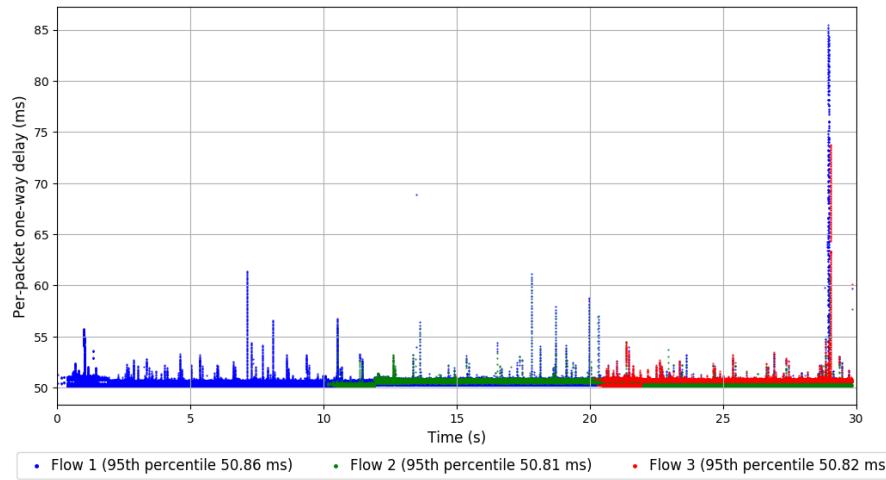
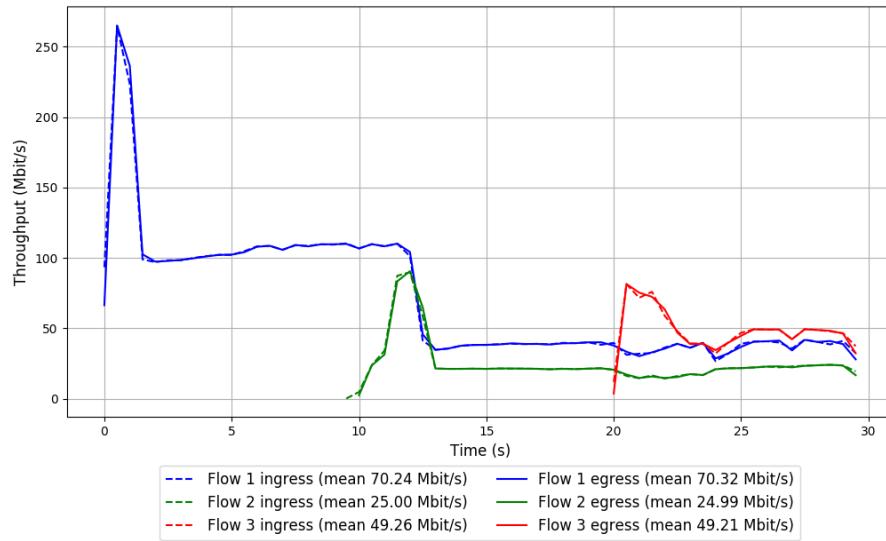


```
Run 1: Statistics of Copa

Start at: 2017-08-21 05:24:54
End at: 2017-08-21 05:25:24

# Below is generated by plot.py at 2017-08-21 10:17:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 102.92 Mbit/s
95th percentile per-packet one-way delay: 50.846 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 70.32 Mbit/s
95th percentile per-packet one-way delay: 50.858 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 24.99 Mbit/s
95th percentile per-packet one-way delay: 50.808 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 49.21 Mbit/s
95th percentile per-packet one-way delay: 50.823 ms
Loss rate: 1.03%
```

Run 1: Report of Copa — Data Link



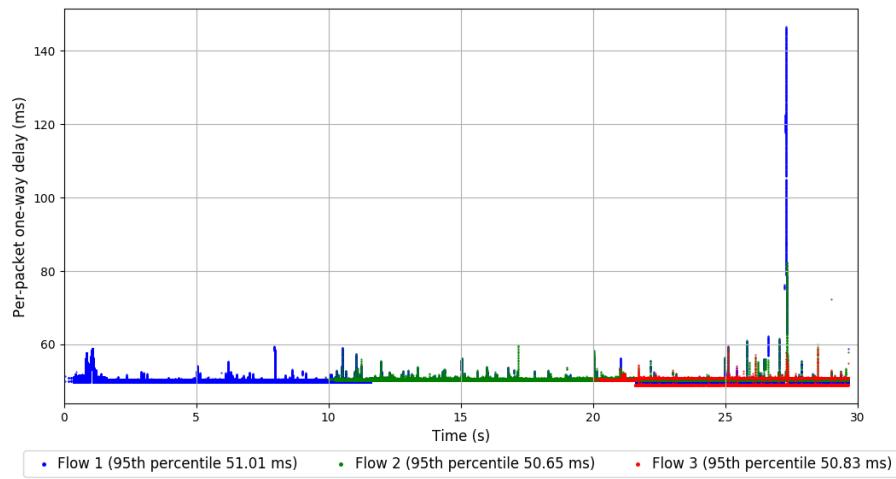
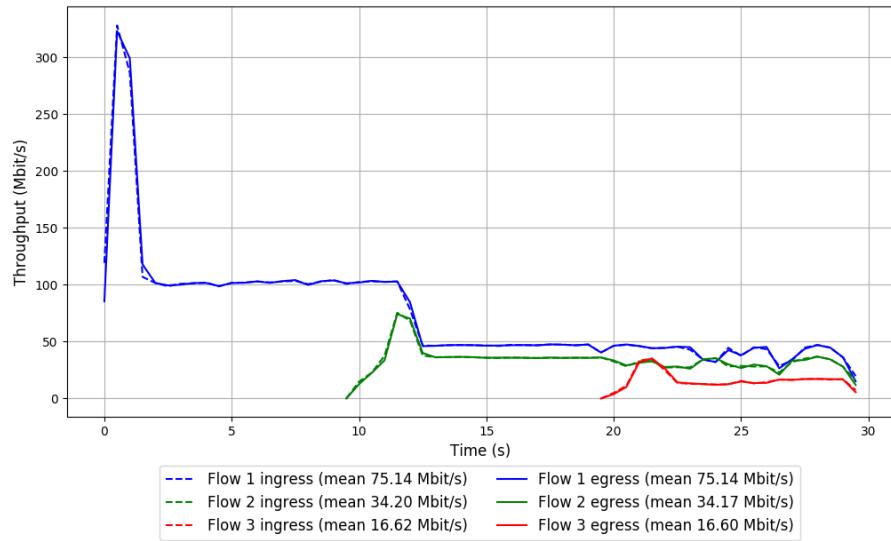
Run 2: Statistics of Copa

Start at: 2017-08-21 05:36:44

End at: 2017-08-21 05:37:14

```
# Below is generated by plot.py at 2017-08-21 10:18:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 103.41 Mbit/s
95th percentile per-packet one-way delay: 50.843 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 75.14 Mbit/s
95th percentile per-packet one-way delay: 51.013 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 34.17 Mbit/s
95th percentile per-packet one-way delay: 50.645 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 16.60 Mbit/s
95th percentile per-packet one-way delay: 50.829 ms
Loss rate: 1.08%
```

Run 2: Report of Copa — Data Link



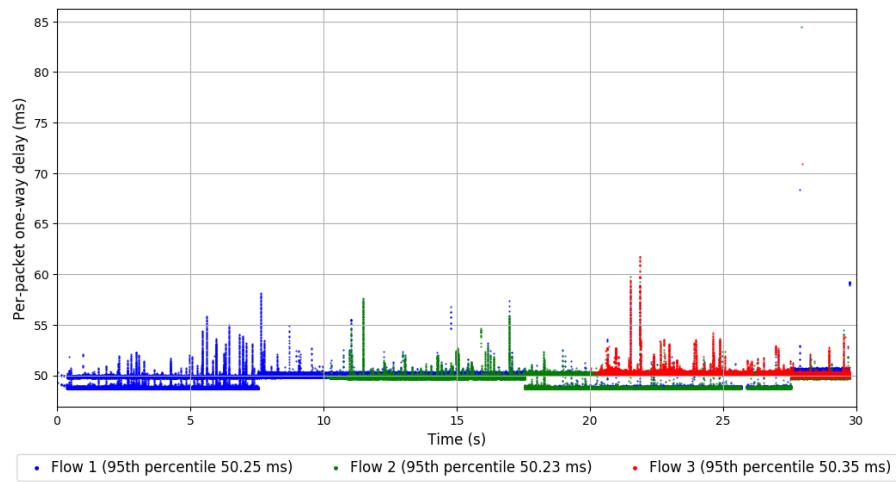
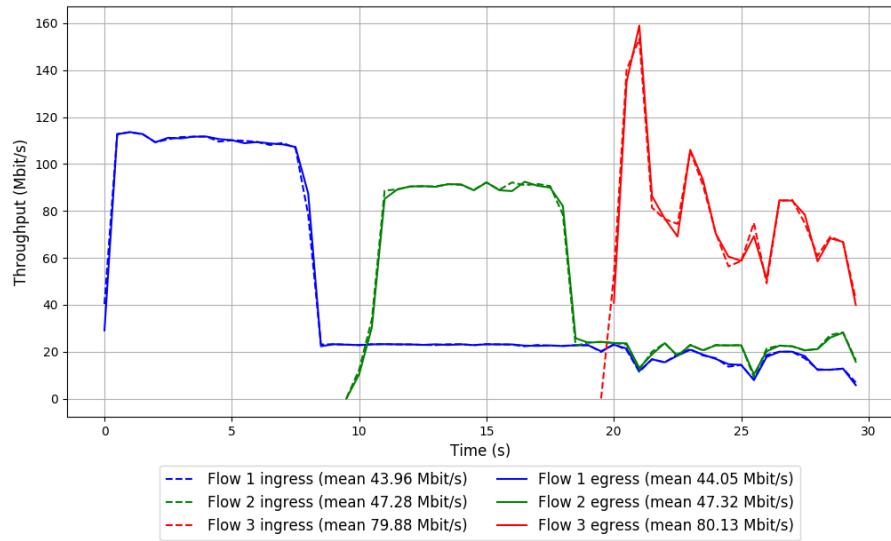
Run 3: Statistics of Copa

Start at: 2017-08-21 05:48:08

End at: 2017-08-21 05:48:38

```
# Below is generated by plot.py at 2017-08-21 10:18:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 101.85 Mbit/s
95th percentile per-packet one-way delay: 50.293 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 44.05 Mbit/s
95th percentile per-packet one-way delay: 50.251 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 47.32 Mbit/s
95th percentile per-packet one-way delay: 50.225 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 80.13 Mbit/s
95th percentile per-packet one-way delay: 50.348 ms
Loss rate: 0.65%
```

Run 3: Report of Copa — Data Link



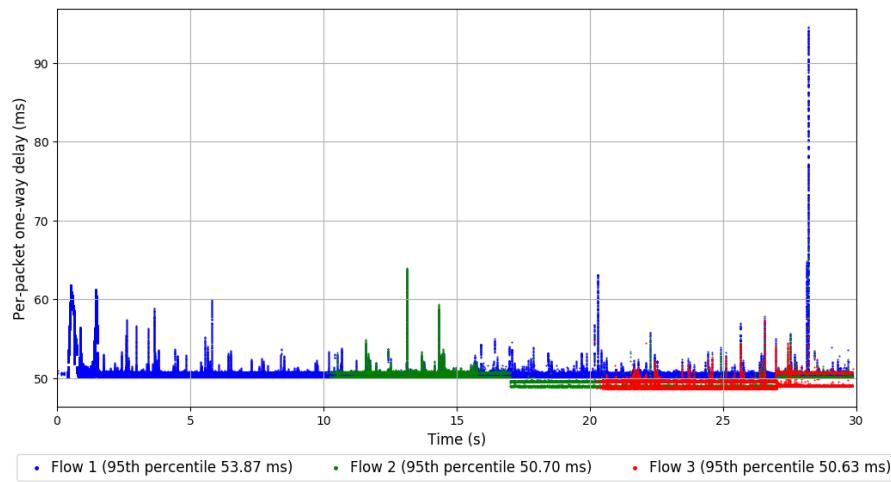
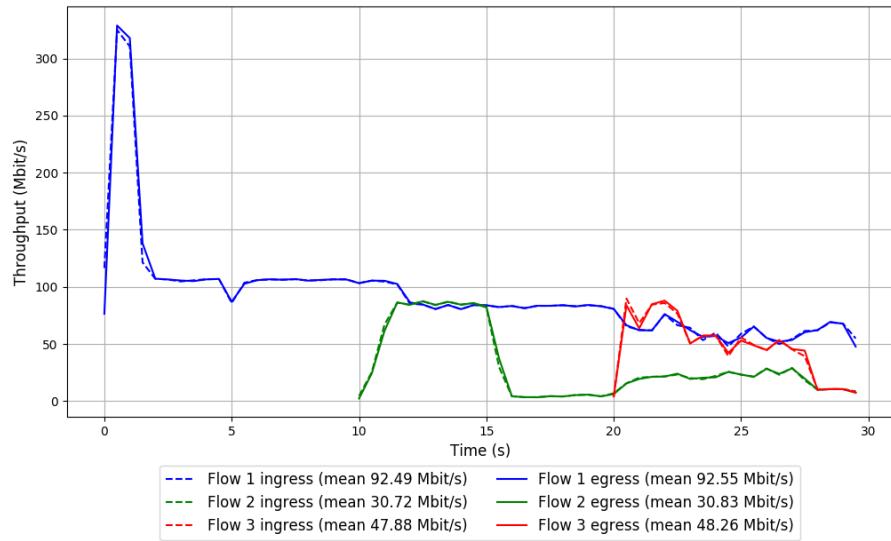
Run 4: Statistics of Copa

Start at: 2017-08-21 05:59:59

End at: 2017-08-21 06:00:29

```
# Below is generated by plot.py at 2017-08-21 10:19:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 128.67 Mbit/s
95th percentile per-packet one-way delay: 51.746 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 92.55 Mbit/s
95th percentile per-packet one-way delay: 53.872 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 30.83 Mbit/s
95th percentile per-packet one-way delay: 50.702 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 48.26 Mbit/s
95th percentile per-packet one-way delay: 50.629 ms
Loss rate: 0.22%
```

Run 4: Report of Copa — Data Link



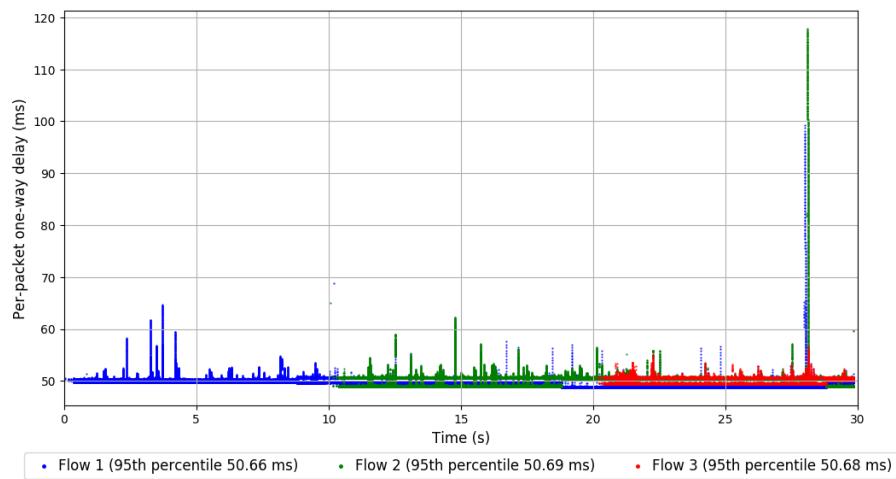
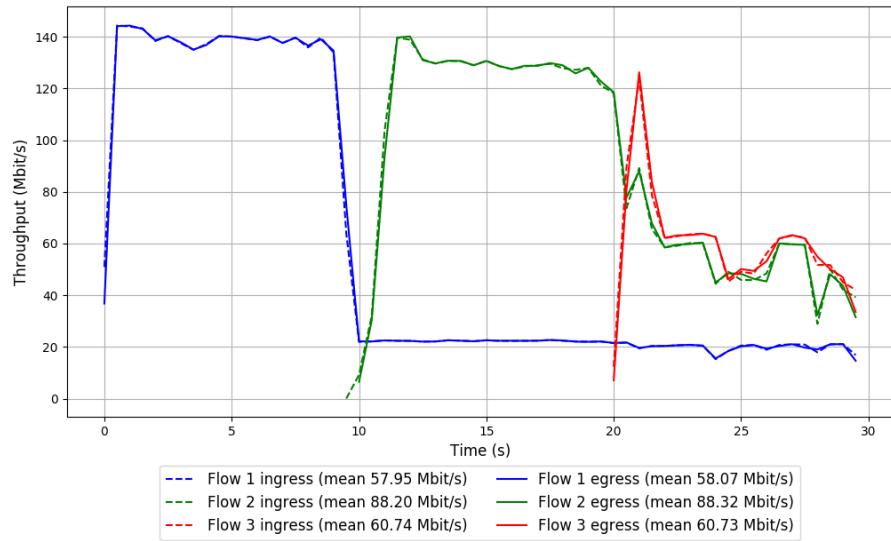
Run 5: Statistics of Copa

Start at: 2017-08-21 06:11:37

End at: 2017-08-21 06:12:07

```
# Below is generated by plot.py at 2017-08-21 10:19:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 136.63 Mbit/s
95th percentile per-packet one-way delay: 50.680 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 58.07 Mbit/s
95th percentile per-packet one-way delay: 50.659 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 88.32 Mbit/s
95th percentile per-packet one-way delay: 50.694 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 60.73 Mbit/s
95th percentile per-packet one-way delay: 50.683 ms
Loss rate: 0.97%
```

Run 5: Report of Copa — Data Link



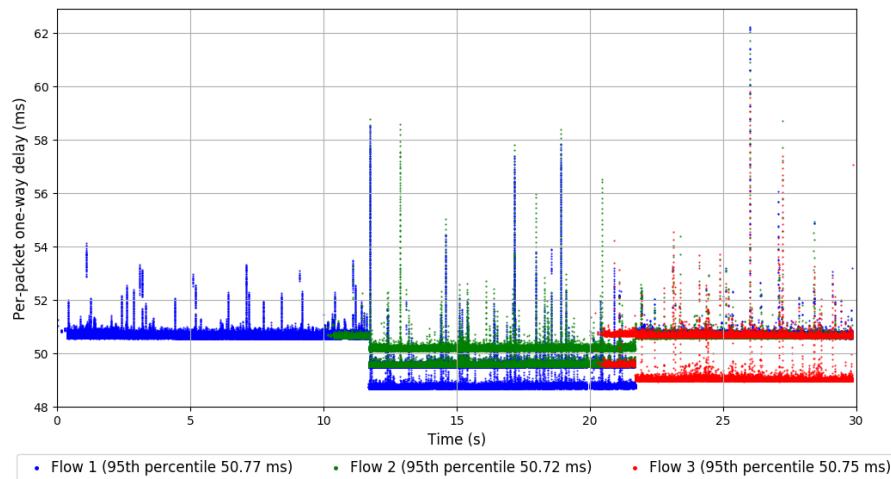
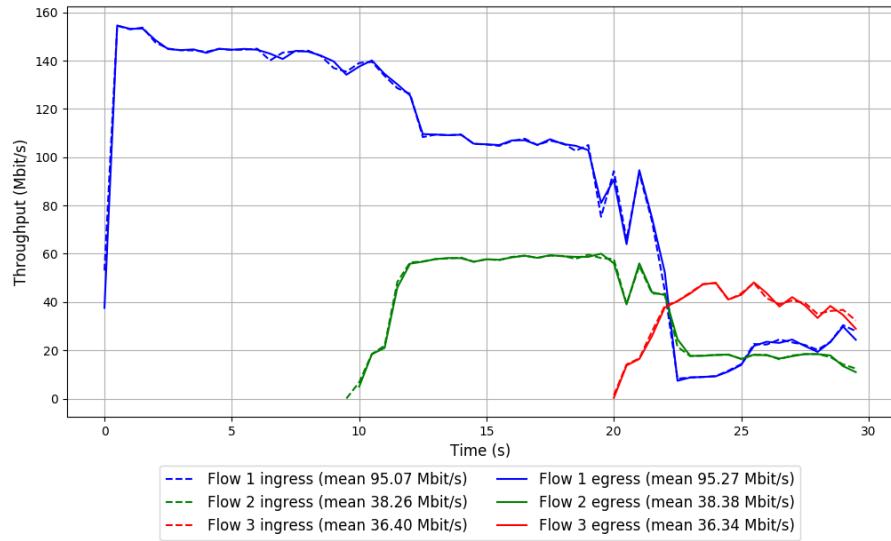
Run 6: Statistics of Copa

Start at: 2017-08-21 06:23:44

End at: 2017-08-21 06:24:14

```
# Below is generated by plot.py at 2017-08-21 10:19:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 132.57 Mbit/s
95th percentile per-packet one-way delay: 50.763 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 95.27 Mbit/s
95th percentile per-packet one-way delay: 50.768 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 38.38 Mbit/s
95th percentile per-packet one-way delay: 50.720 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 36.34 Mbit/s
95th percentile per-packet one-way delay: 50.748 ms
Loss rate: 1.18%
```

Run 6: Report of Copa — Data Link



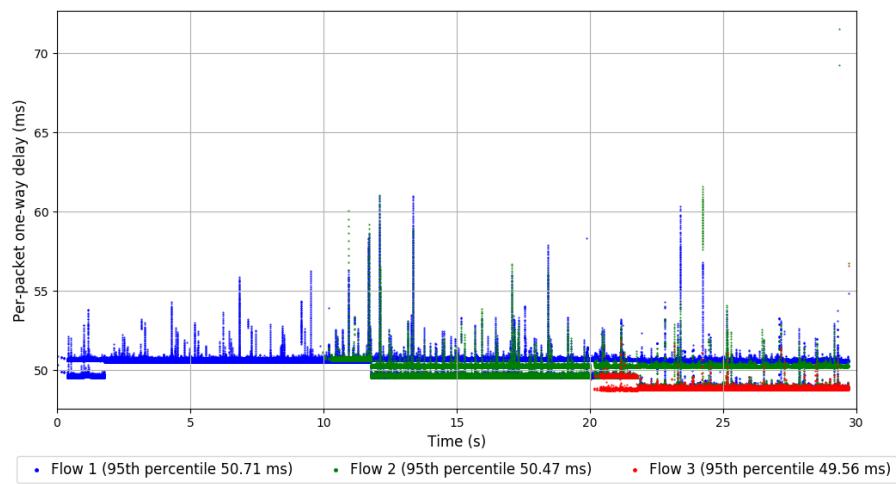
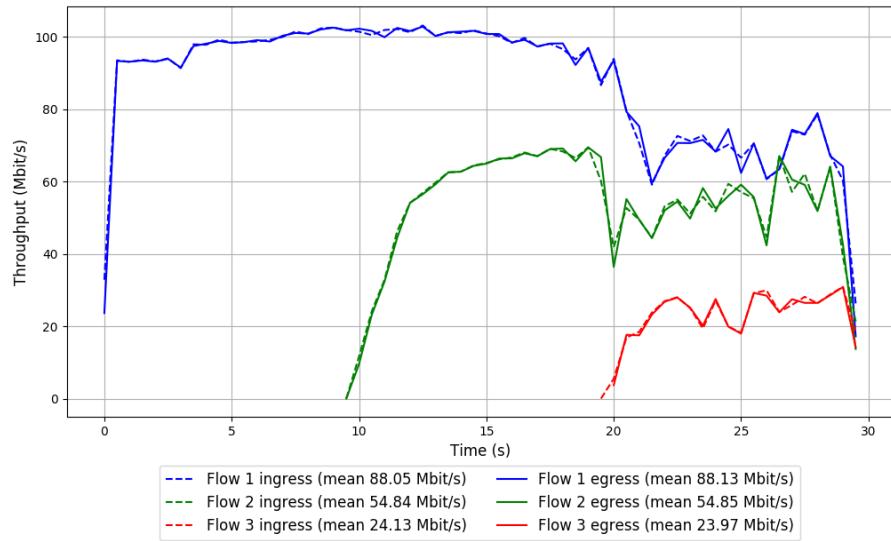
Run 7: Statistics of Copa

Start at: 2017-08-21 06:36:14

End at: 2017-08-21 06:36:44

```
# Below is generated by plot.py at 2017-08-21 10:19:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 132.45 Mbit/s
95th percentile per-packet one-way delay: 50.697 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 88.13 Mbit/s
95th percentile per-packet one-way delay: 50.709 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 54.85 Mbit/s
95th percentile per-packet one-way delay: 50.465 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 23.97 Mbit/s
95th percentile per-packet one-way delay: 49.562 ms
Loss rate: 1.60%
```

Run 7: Report of Copa — Data Link



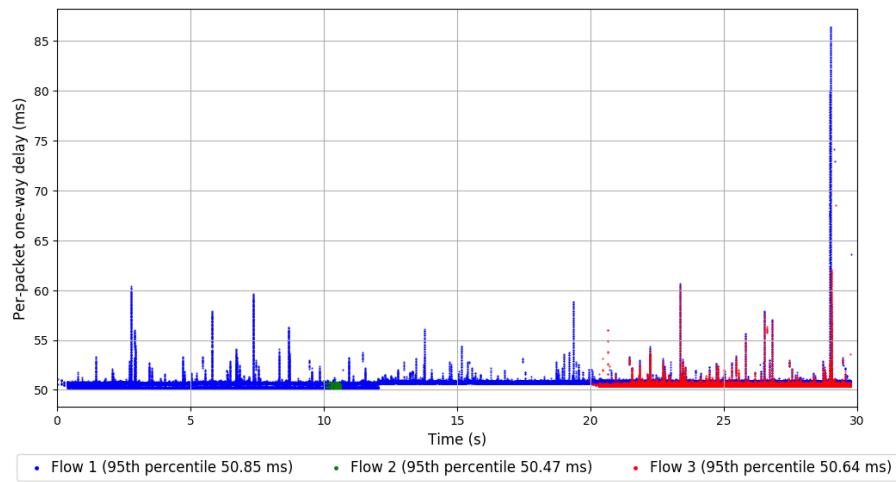
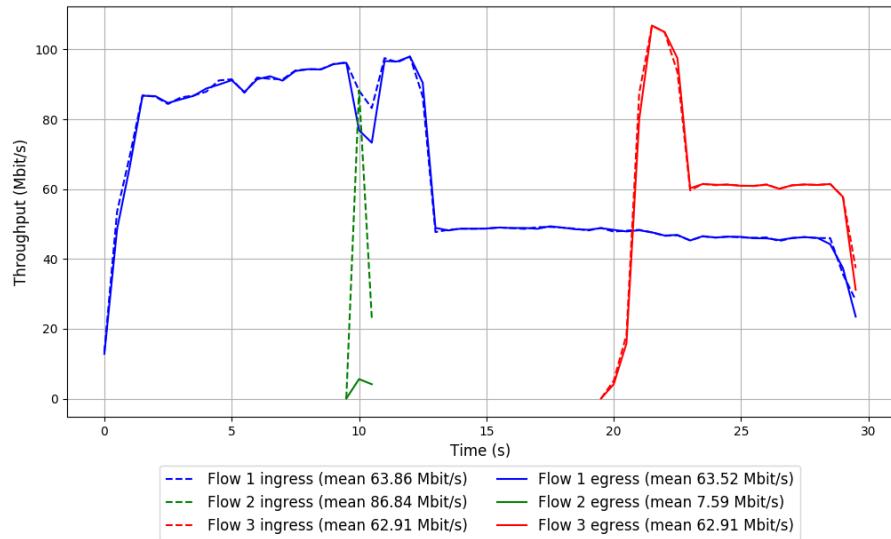
Run 8: Statistics of Copa

Start at: 2017-08-21 06:48:04

End at: 2017-08-21 06:48:34

```
# Below is generated by plot.py at 2017-08-21 10:20:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.39 Mbit/s
95th percentile per-packet one-way delay: 50.837 ms
Loss rate: 2.81%
-- Flow 1:
Average throughput: 63.52 Mbit/s
95th percentile per-packet one-way delay: 50.846 ms
Loss rate: 0.82%
-- Flow 2:
Average throughput: 7.59 Mbit/s
95th percentile per-packet one-way delay: 50.474 ms
Loss rate: 91.26%
-- Flow 3:
Average throughput: 62.91 Mbit/s
95th percentile per-packet one-way delay: 50.637 ms
Loss rate: 1.00%
```

Run 8: Report of Copa — Data Link



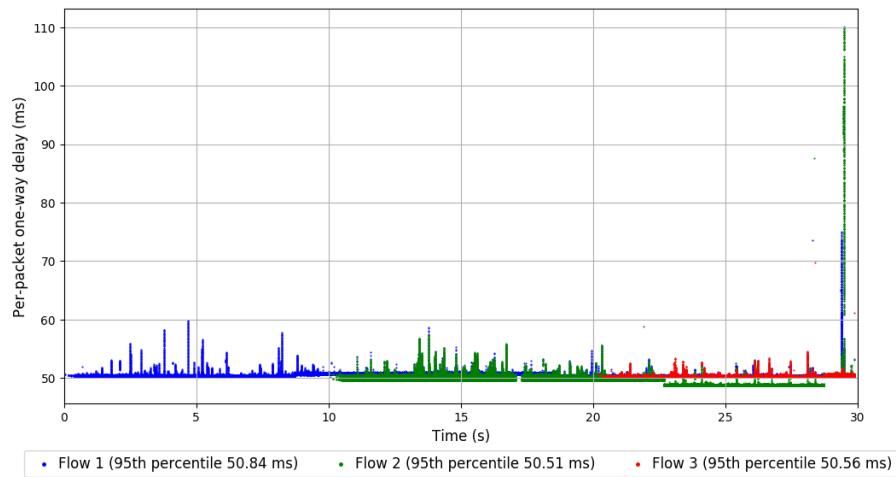
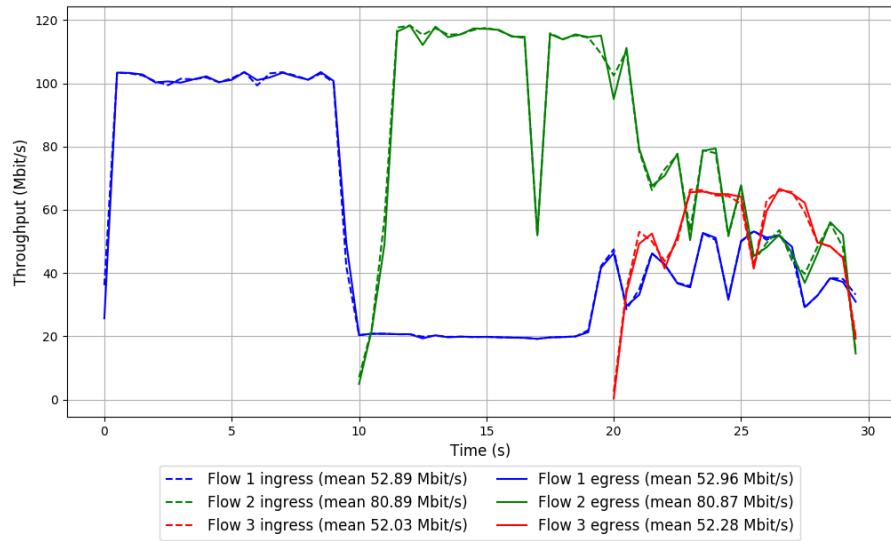
Run 9: Statistics of Copa

Start at: 2017-08-21 06:59:47

End at: 2017-08-21 07:00:17

```
# Below is generated by plot.py at 2017-08-21 10:20:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 123.63 Mbit/s
95th percentile per-packet one-way delay: 50.743 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 52.96 Mbit/s
95th percentile per-packet one-way delay: 50.843 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 80.87 Mbit/s
95th percentile per-packet one-way delay: 50.508 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 52.28 Mbit/s
95th percentile per-packet one-way delay: 50.564 ms
Loss rate: 0.45%
```

Run 9: Report of Copa — Data Link



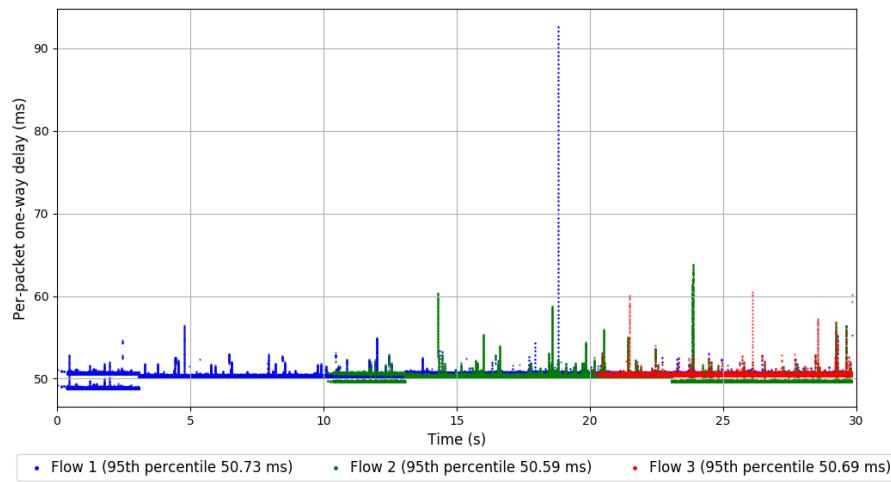
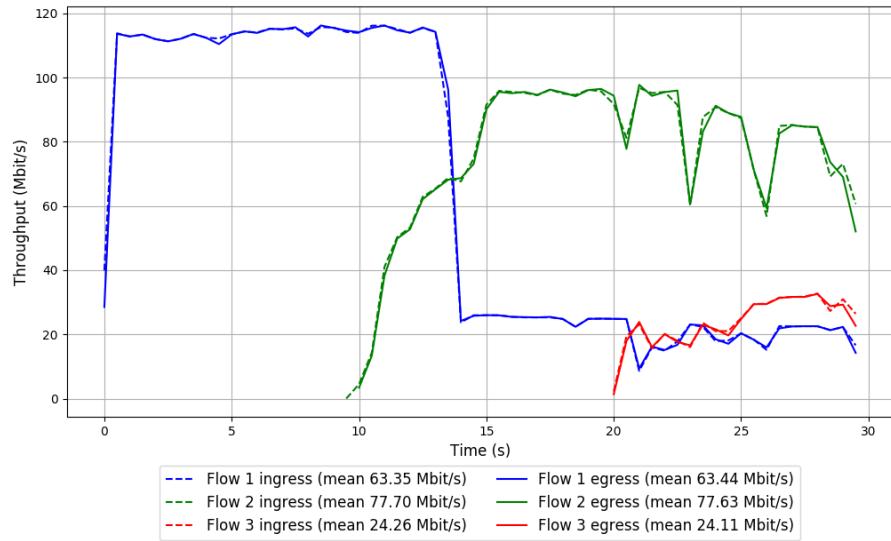
Run 10: Statistics of Copa

Start at: 2017-08-21 07:11:43

End at: 2017-08-21 07:12:13

```
# Below is generated by plot.py at 2017-08-21 10:20:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 122.91 Mbit/s
95th percentile per-packet one-way delay: 50.709 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 63.44 Mbit/s
95th percentile per-packet one-way delay: 50.729 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 77.63 Mbit/s
95th percentile per-packet one-way delay: 50.586 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 24.11 Mbit/s
95th percentile per-packet one-way delay: 50.687 ms
Loss rate: 1.55%
```

Run 10: Report of Copa — Data Link

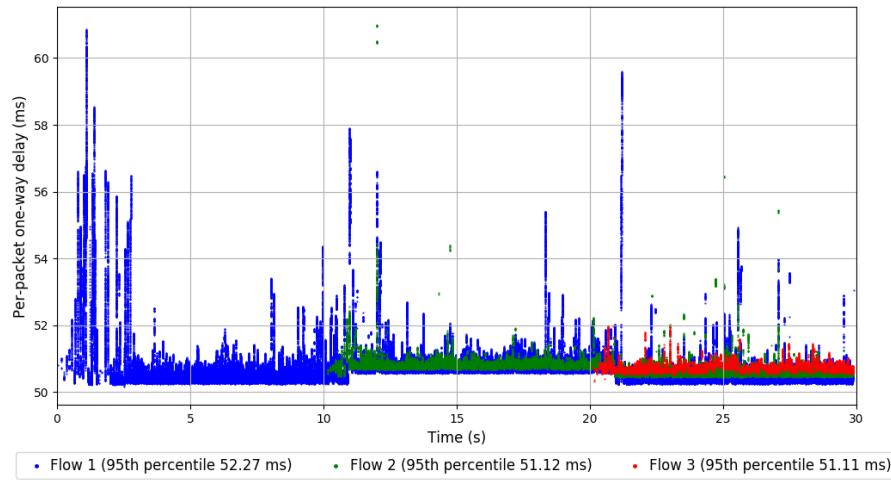
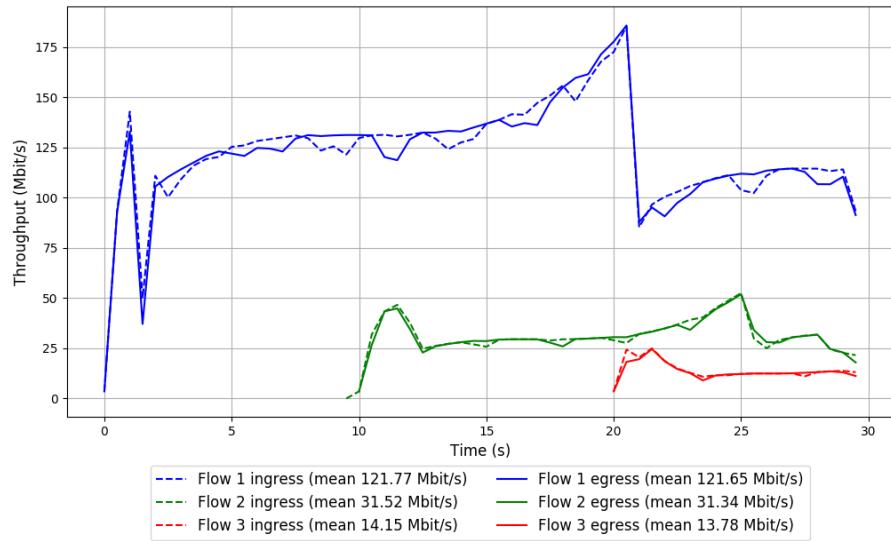


```
Run 1: Statistics of TCP Cubic

Start at: 2017-08-21 05:23:25
End at: 2017-08-21 05:23:55

# Below is generated by plot.py at 2017-08-21 10:20:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 146.97 Mbit/s
95th percentile per-packet one-way delay: 52.023 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 121.65 Mbit/s
95th percentile per-packet one-way delay: 52.266 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 31.34 Mbit/s
95th percentile per-packet one-way delay: 51.119 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 13.78 Mbit/s
95th percentile per-packet one-way delay: 51.113 ms
Loss rate: 3.77%
```

Run 1: Report of TCP Cubic — Data Link



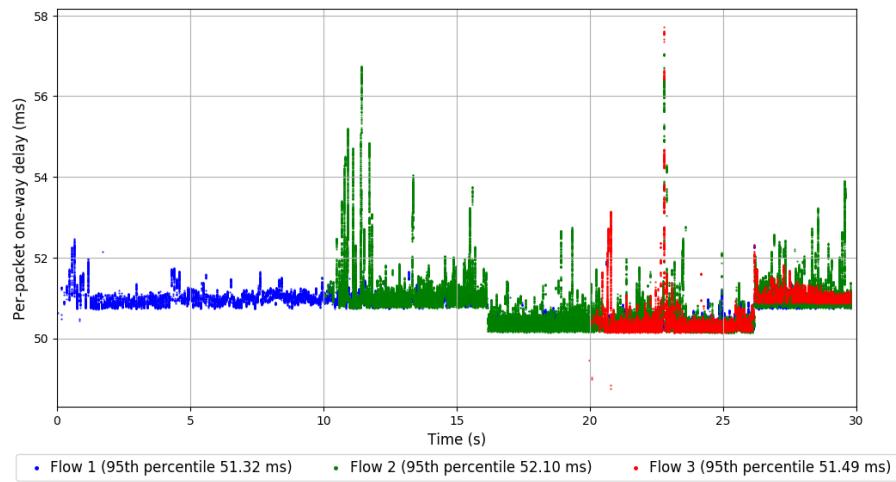
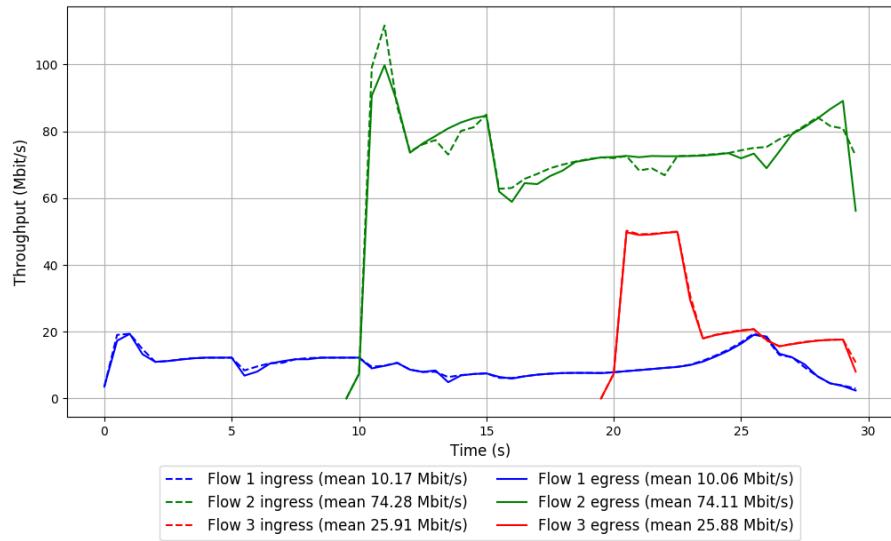
```
Run 2: Statistics of TCP Cubic
```

```
Start at: 2017-08-21 05:35:20
```

```
End at: 2017-08-21 05:35:50
```

```
# Below is generated by plot.py at 2017-08-21 10:21:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 67.99 Mbit/s
95th percentile per-packet one-way delay: 51.874 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 10.06 Mbit/s
95th percentile per-packet one-way delay: 51.321 ms
Loss rate: 1.49%
-- Flow 2:
Average throughput: 74.11 Mbit/s
95th percentile per-packet one-way delay: 52.098 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 25.88 Mbit/s
95th percentile per-packet one-way delay: 51.493 ms
Loss rate: 1.11%
```

Run 2: Report of TCP Cubic — Data Link

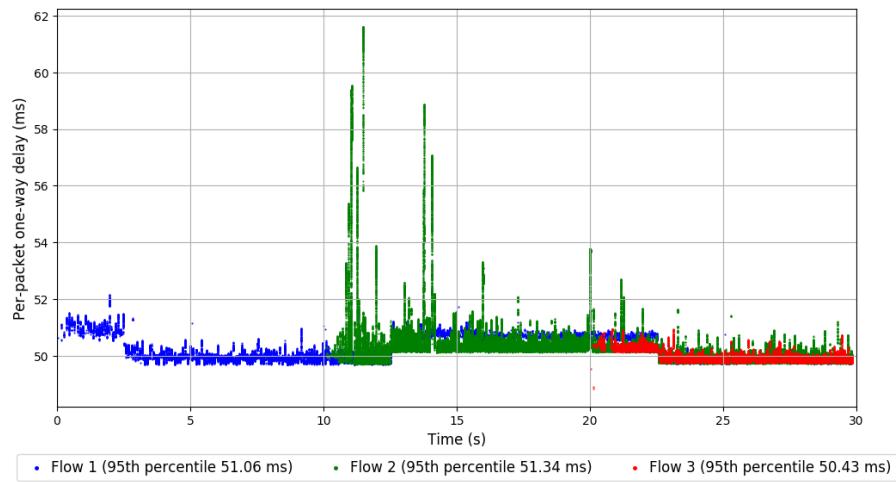
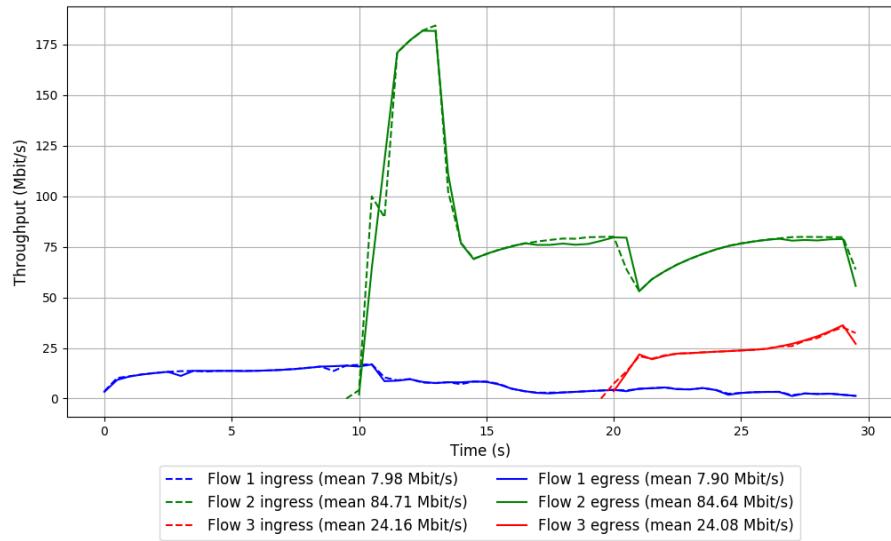


```
Run 3: Statistics of TCP Cubic

Start at: 2017-08-21 05:46:43
End at: 2017-08-21 05:47:13

# Below is generated by plot.py at 2017-08-21 10:21:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 72.15 Mbit/s
95th percentile per-packet one-way delay: 51.167 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 7.90 Mbit/s
95th percentile per-packet one-way delay: 51.064 ms
Loss rate: 1.25%
-- Flow 2:
Average throughput: 84.64 Mbit/s
95th percentile per-packet one-way delay: 51.341 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 24.08 Mbit/s
95th percentile per-packet one-way delay: 50.426 ms
Loss rate: 1.32%
```

Run 3: Report of TCP Cubic — Data Link



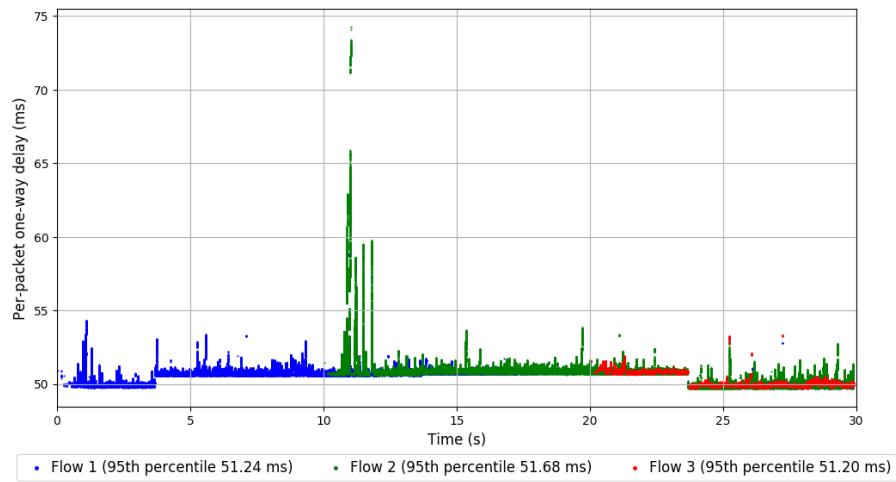
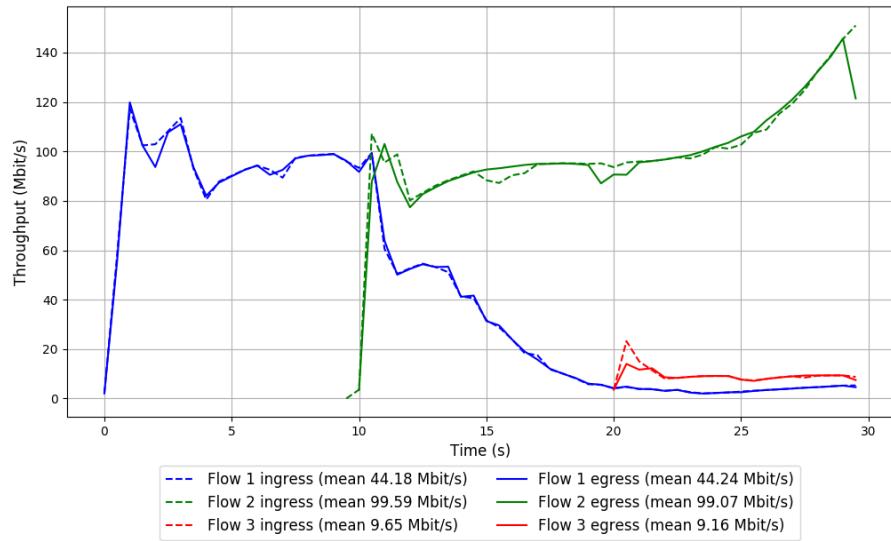
```
Run 4: Statistics of TCP Cubic
```

```
Start at: 2017-08-21 05:58:32
```

```
End at: 2017-08-21 05:59:02
```

```
# Below is generated by plot.py at 2017-08-21 10:21:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 113.08 Mbit/s
95th percentile per-packet one-way delay: 51.452 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 44.24 Mbit/s
95th percentile per-packet one-way delay: 51.243 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 99.07 Mbit/s
95th percentile per-packet one-way delay: 51.676 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 9.16 Mbit/s
95th percentile per-packet one-way delay: 51.203 ms
Loss rate: 6.15%
```

Run 4: Report of TCP Cubic — Data Link

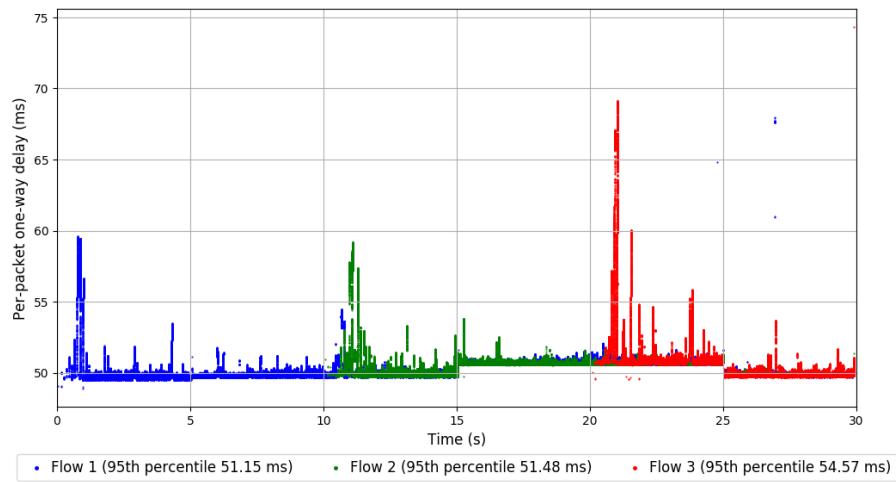
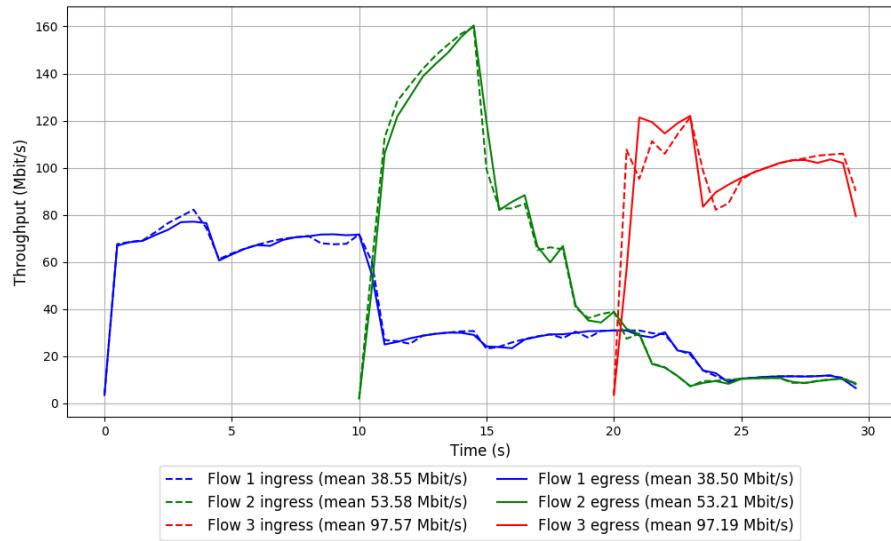


```
Run 5: Statistics of TCP Cubic

Start at: 2017-08-21 06:10:11
End at: 2017-08-21 06:10:41

# Below is generated by plot.py at 2017-08-21 10:21:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 105.82 Mbit/s
95th percentile per-packet one-way delay: 52.180 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 38.50 Mbit/s
95th percentile per-packet one-way delay: 51.150 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 53.21 Mbit/s
95th percentile per-packet one-way delay: 51.479 ms
Loss rate: 0.96%
-- Flow 3:
Average throughput: 97.19 Mbit/s
95th percentile per-packet one-way delay: 54.570 ms
Loss rate: 1.16%
```

Run 5: Report of TCP Cubic — Data Link



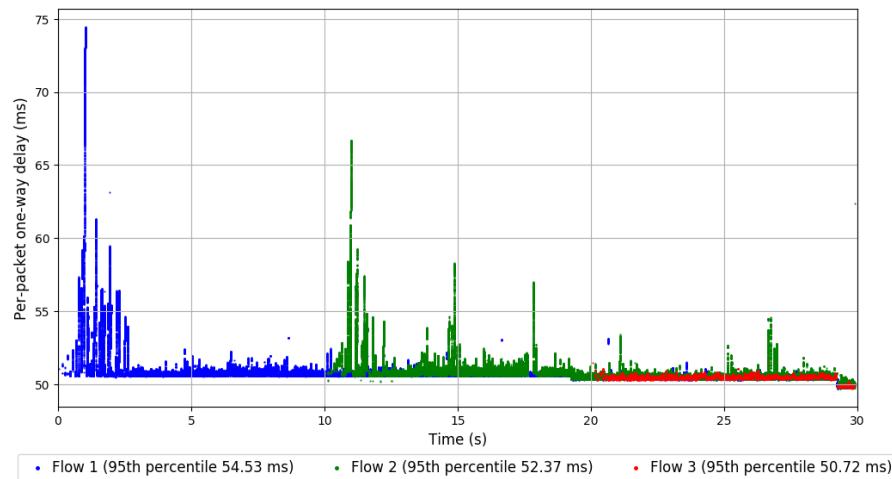
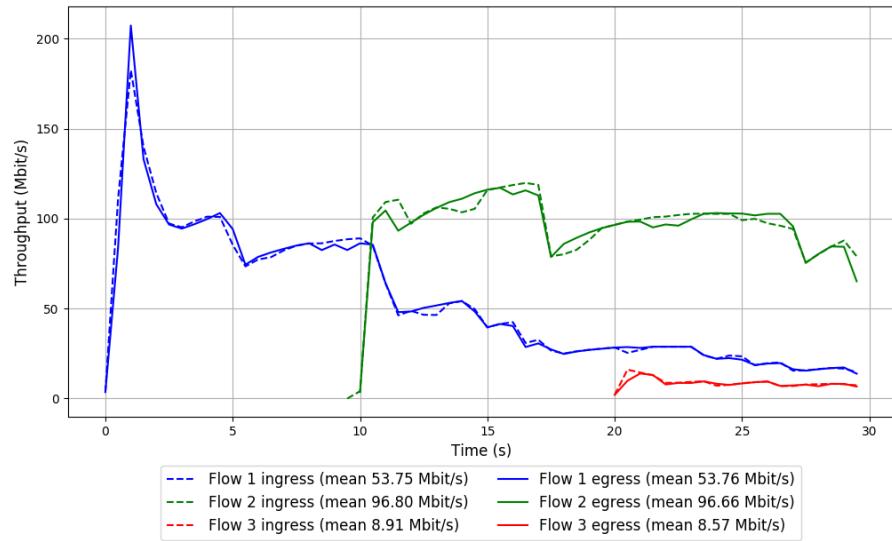
Run 6: Statistics of TCP Cubic

Start at: 2017-08-21 06:22:17

End at: 2017-08-21 06:22:47

```
# Below is generated by plot.py at 2017-08-21 10:21:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 120.87 Mbit/s
95th percentile per-packet one-way delay: 53.287 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 53.76 Mbit/s
95th percentile per-packet one-way delay: 54.530 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 96.66 Mbit/s
95th percentile per-packet one-way delay: 52.367 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 8.57 Mbit/s
95th percentile per-packet one-way delay: 50.717 ms
Loss rate: 4.83%
```

Run 6: Report of TCP Cubic — Data Link



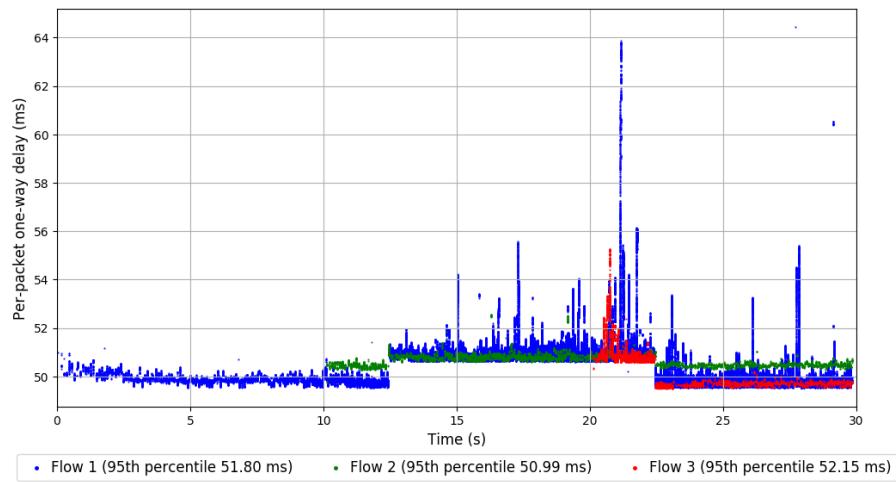
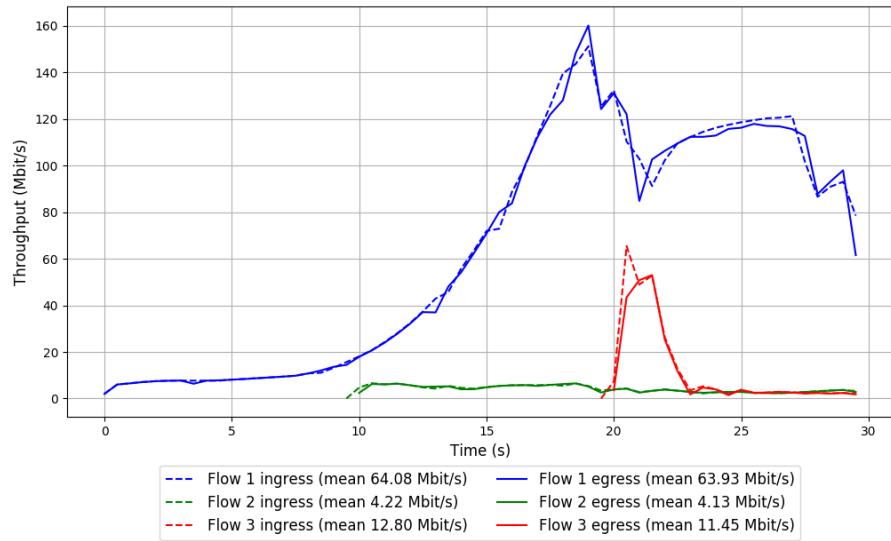
Run 7: Statistics of TCP Cubic

Start at: 2017-08-21 06:34:44

End at: 2017-08-21 06:35:14

```
# Below is generated by plot.py at 2017-08-21 10:21:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 70.46 Mbit/s
95th percentile per-packet one-way delay: 51.808 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 63.93 Mbit/s
95th percentile per-packet one-way delay: 51.801 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 4.13 Mbit/s
95th percentile per-packet one-way delay: 50.992 ms
Loss rate: 2.67%
-- Flow 3:
Average throughput: 11.45 Mbit/s
95th percentile per-packet one-way delay: 52.154 ms
Loss rate: 11.46%
```

Run 7: Report of TCP Cubic — Data Link



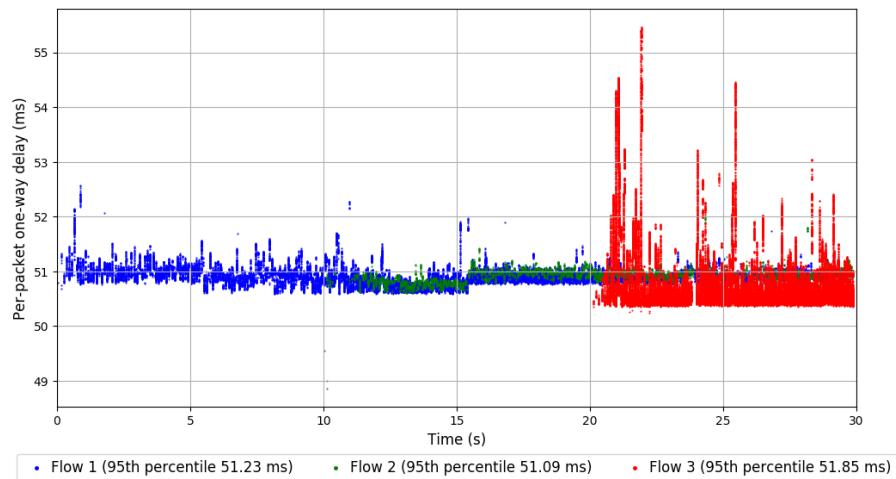
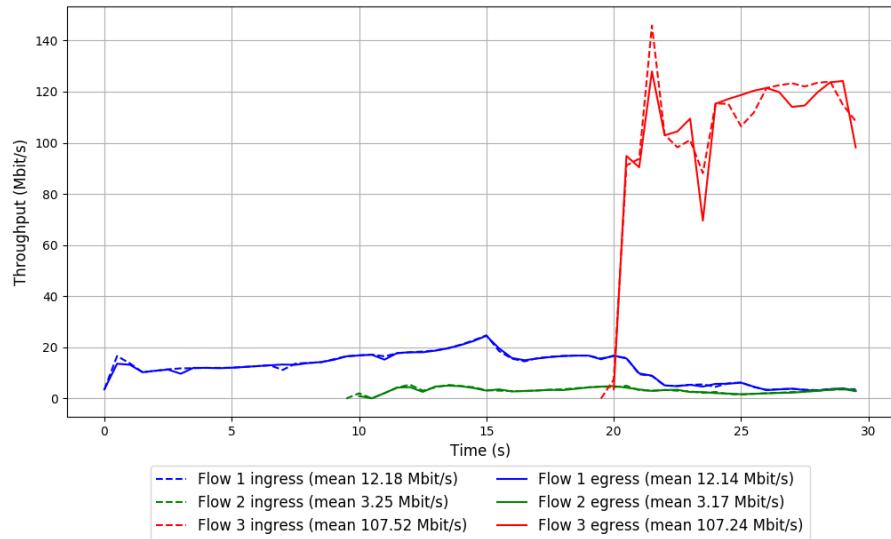
Run 8: Statistics of TCP Cubic

Start at: 2017-08-21 06:46:41

End at: 2017-08-21 06:47:11

```
# Below is generated by plot.py at 2017-08-21 10:21:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.62 Mbit/s
95th percentile per-packet one-way delay: 51.597 ms
Loss rate: 1.24%
-- Flow 1:
Average throughput: 12.14 Mbit/s
95th percentile per-packet one-way delay: 51.225 ms
Loss rate: 0.81%
-- Flow 2:
Average throughput: 3.17 Mbit/s
95th percentile per-packet one-way delay: 51.090 ms
Loss rate: 3.07%
-- Flow 3:
Average throughput: 107.24 Mbit/s
95th percentile per-packet one-way delay: 51.855 ms
Loss rate: 1.28%
```

Run 8: Report of TCP Cubic — Data Link

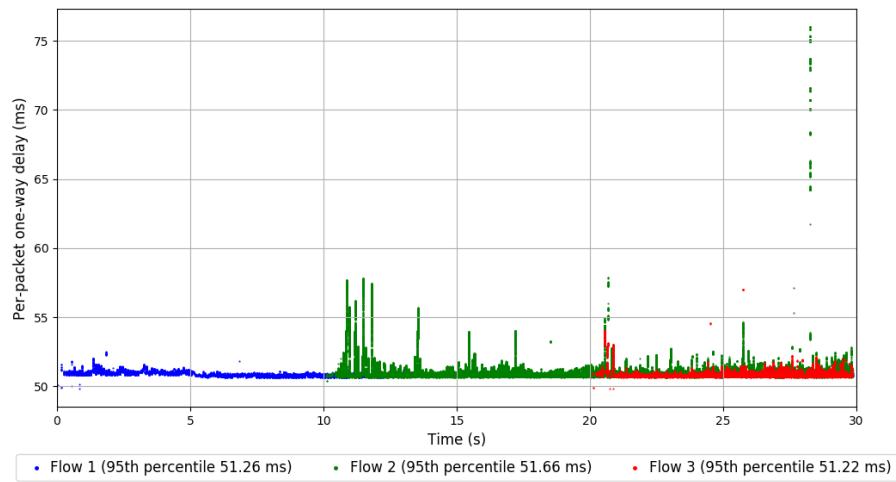
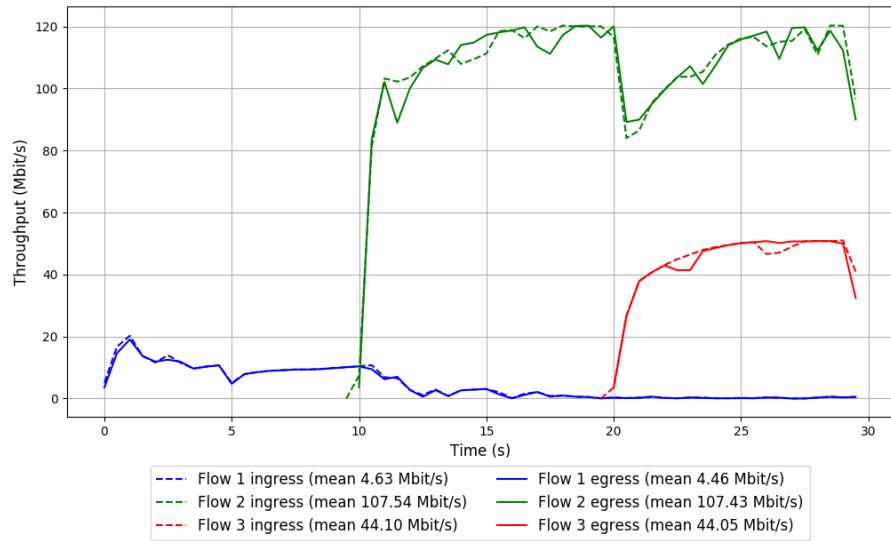


```
Run 9: Statistics of TCP Cubic

Start at: 2017-08-21 06:58:21
End at: 2017-08-21 06:58:51

# Below is generated by plot.py at 2017-08-21 10:21:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.45 Mbit/s
95th percentile per-packet one-way delay: 51.555 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 4.46 Mbit/s
95th percentile per-packet one-way delay: 51.257 ms
Loss rate: 3.99%
-- Flow 2:
Average throughput: 107.43 Mbit/s
95th percentile per-packet one-way delay: 51.659 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 44.05 Mbit/s
95th percentile per-packet one-way delay: 51.219 ms
Loss rate: 1.19%
```

Run 9: Report of TCP Cubic — Data Link



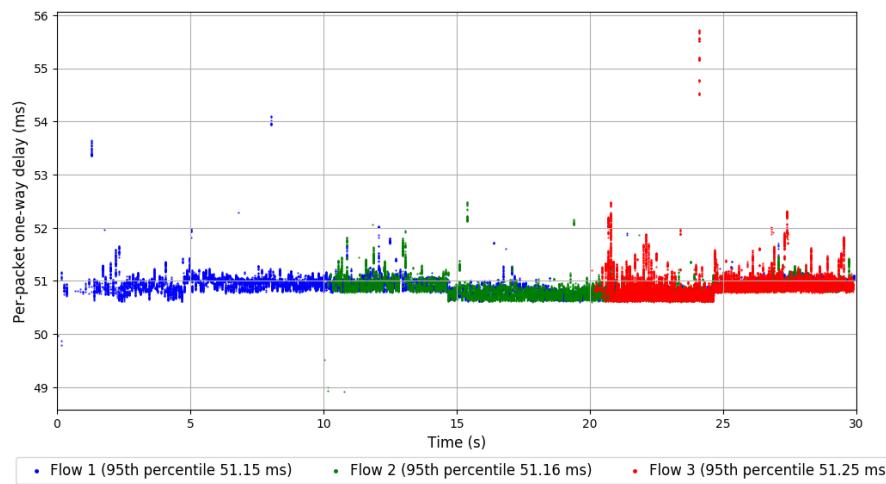
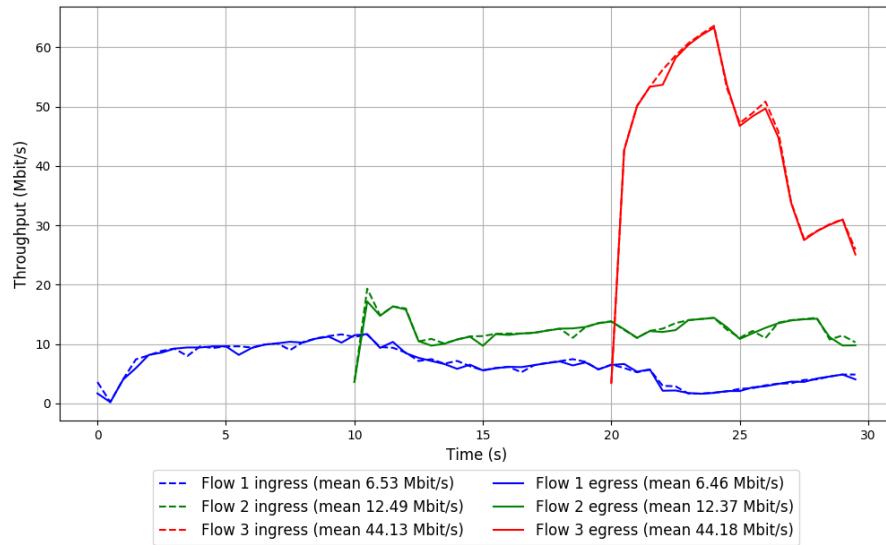
Run 10: Statistics of TCP Cubic

Start at: 2017-08-21 07:10:21

End at: 2017-08-21 07:10:51

```
# Below is generated by plot.py at 2017-08-21 10:21:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 29.20 Mbit/s
95th percentile per-packet one-way delay: 51.192 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 6.46 Mbit/s
95th percentile per-packet one-way delay: 51.146 ms
Loss rate: 1.53%
-- Flow 2:
Average throughput: 12.37 Mbit/s
95th percentile per-packet one-way delay: 51.157 ms
Loss rate: 1.25%
-- Flow 3:
Average throughput: 44.18 Mbit/s
95th percentile per-packet one-way delay: 51.253 ms
Loss rate: 0.91%
```

Run 10: Report of TCP Cubic — Data Link

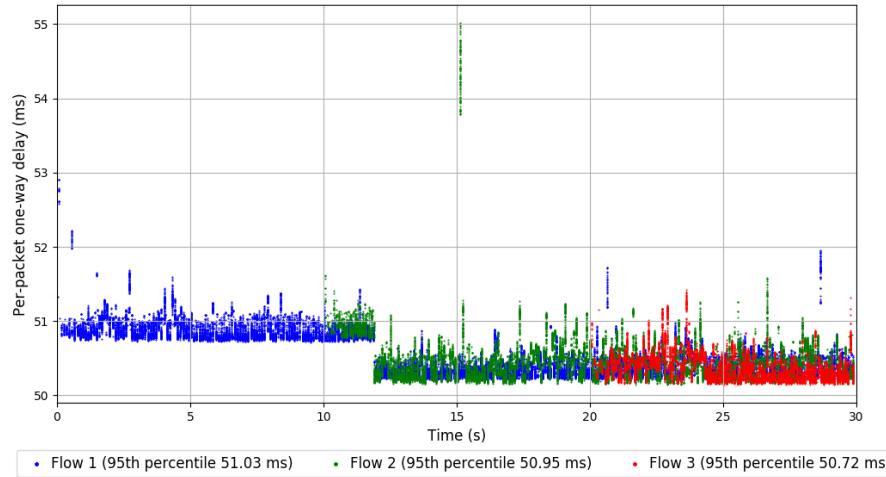
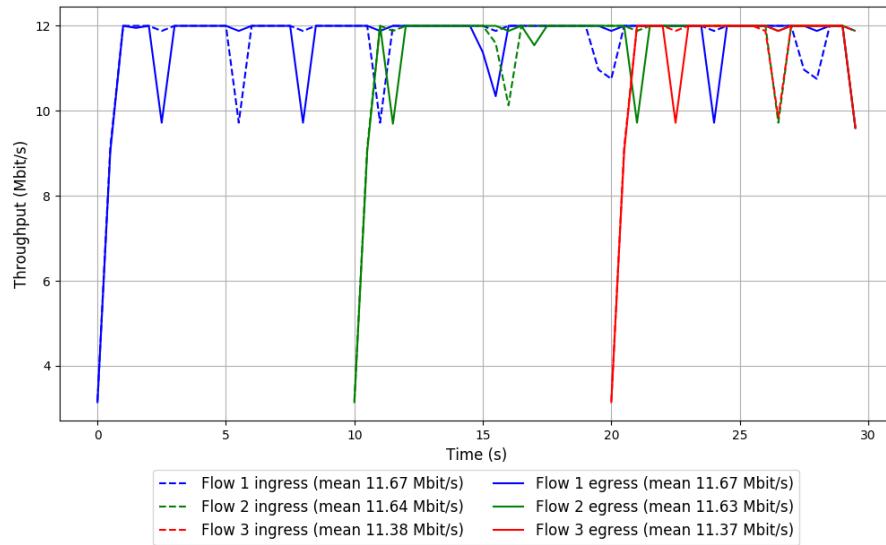


```
Run 1: Statistics of KohoCC

Start at: 2017-08-21 05:30:34
End at: 2017-08-21 05:31:04

# Below is generated by plot.py at 2017-08-21 10:22:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.13 Mbit/s
95th percentile per-packet one-way delay: 50.991 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 11.67 Mbit/s
95th percentile per-packet one-way delay: 51.035 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 11.63 Mbit/s
95th percentile per-packet one-way delay: 50.949 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 11.37 Mbit/s
95th percentile per-packet one-way delay: 50.719 ms
Loss rate: 1.06%
```

Run 1: Report of KohoCC — Data Link



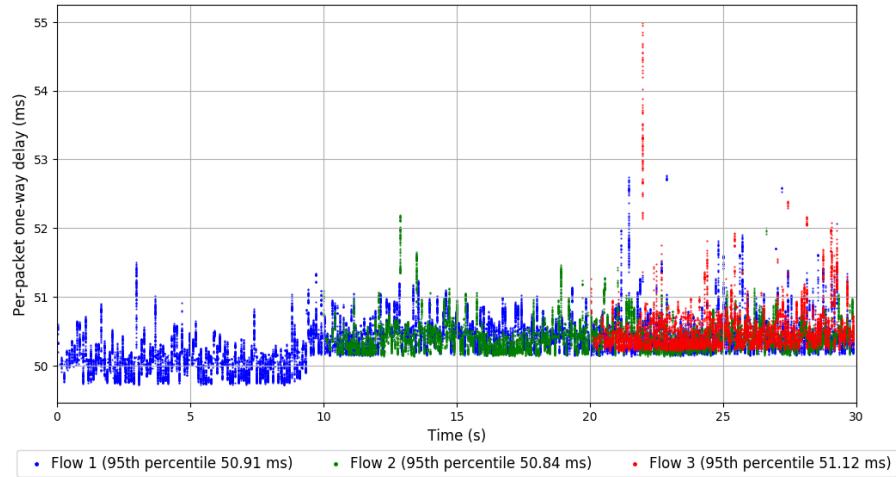
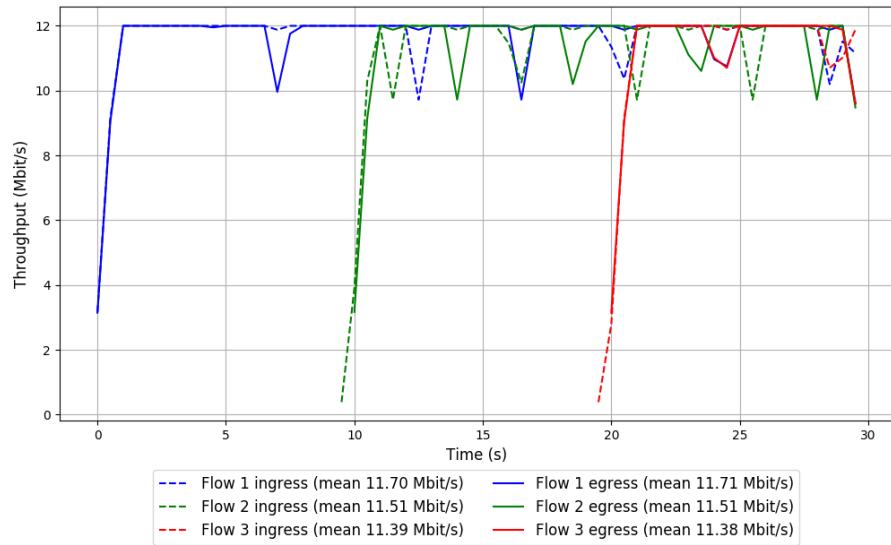
Run 2: Statistics of KohoCC

Start at: 2017-08-21 05:42:17

End at: 2017-08-21 05:42:47

```
# Below is generated by plot.py at 2017-08-21 10:22:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.11 Mbit/s
95th percentile per-packet one-way delay: 50.912 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 11.71 Mbit/s
95th percentile per-packet one-way delay: 50.908 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 11.51 Mbit/s
95th percentile per-packet one-way delay: 50.844 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 11.38 Mbit/s
95th percentile per-packet one-way delay: 51.122 ms
Loss rate: 1.06%
```

Run 2: Report of KohoCC — Data Link



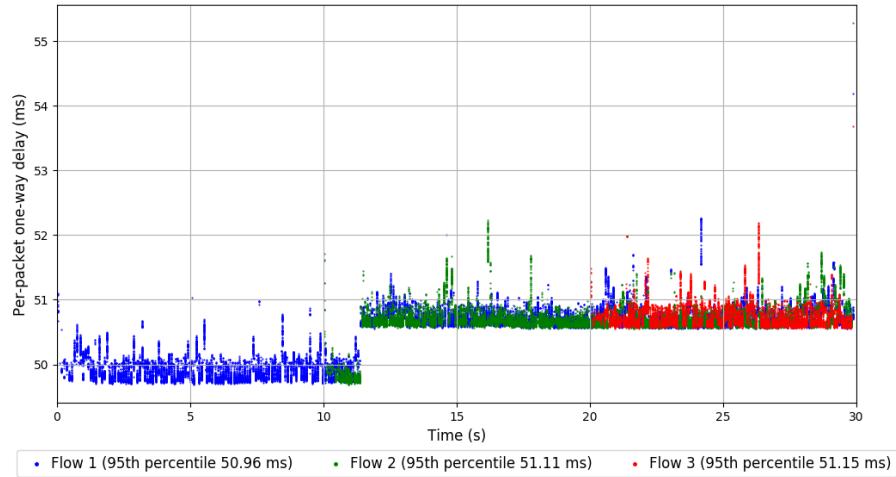
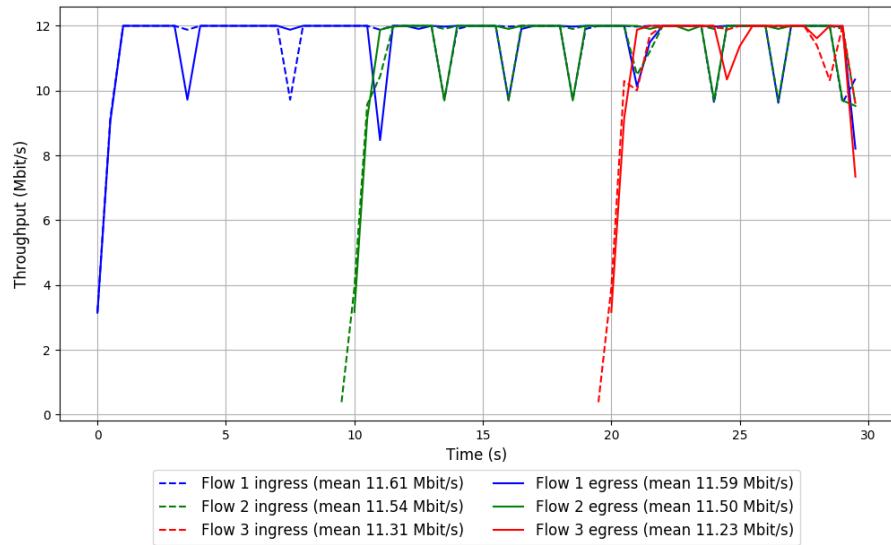
Run 3: Statistics of KohoCC

Start at: 2017-08-21 05:53:55

End at: 2017-08-21 05:54:25

```
# Below is generated by plot.py at 2017-08-21 10:22:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 22.94 Mbit/s
95th percentile per-packet one-way delay: 51.028 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 11.59 Mbit/s
95th percentile per-packet one-way delay: 50.961 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 11.50 Mbit/s
95th percentile per-packet one-way delay: 51.113 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 11.23 Mbit/s
95th percentile per-packet one-way delay: 51.148 ms
Loss rate: 1.18%
```

Run 3: Report of KohoCC — Data Link



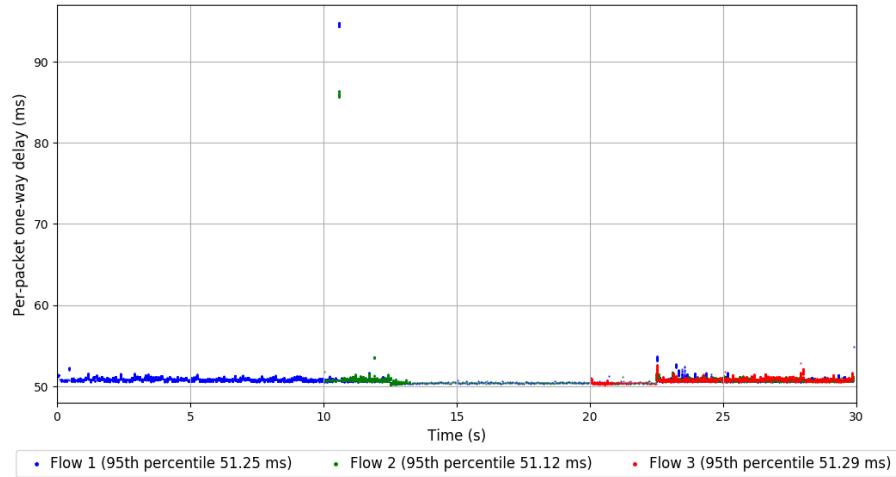
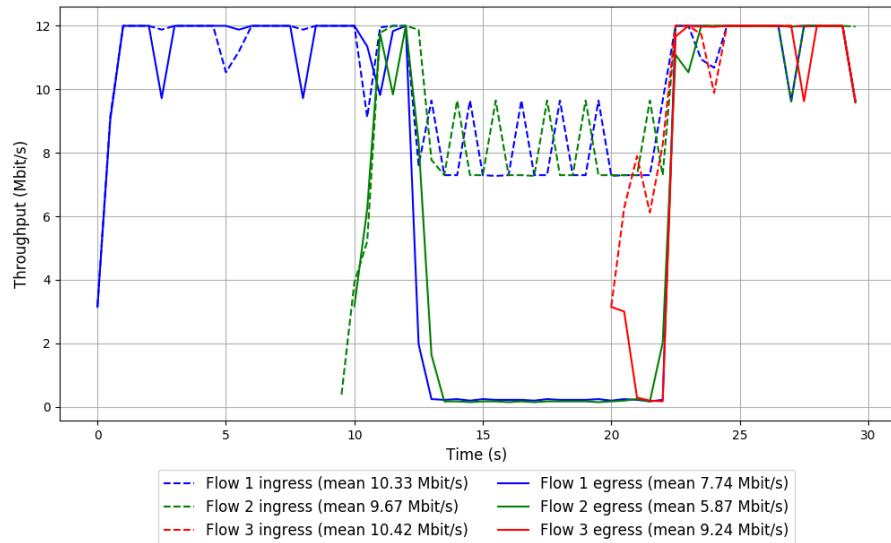
Run 4: Statistics of KohoCC

Start at: 2017-08-21 06:05:44

End at: 2017-08-21 06:06:14

```
# Below is generated by plot.py at 2017-08-21 10:22:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.68 Mbit/s
95th percentile per-packet one-way delay: 51.230 ms
Loss rate: 27.62%
-- Flow 1:
Average throughput: 7.74 Mbit/s
95th percentile per-packet one-way delay: 51.247 ms
Loss rate: 25.32%
-- Flow 2:
Average throughput: 5.87 Mbit/s
95th percentile per-packet one-way delay: 51.123 ms
Loss rate: 39.56%
-- Flow 3:
Average throughput: 9.24 Mbit/s
95th percentile per-packet one-way delay: 51.293 ms
Loss rate: 12.22%
```

Run 4: Report of KohoCC — Data Link



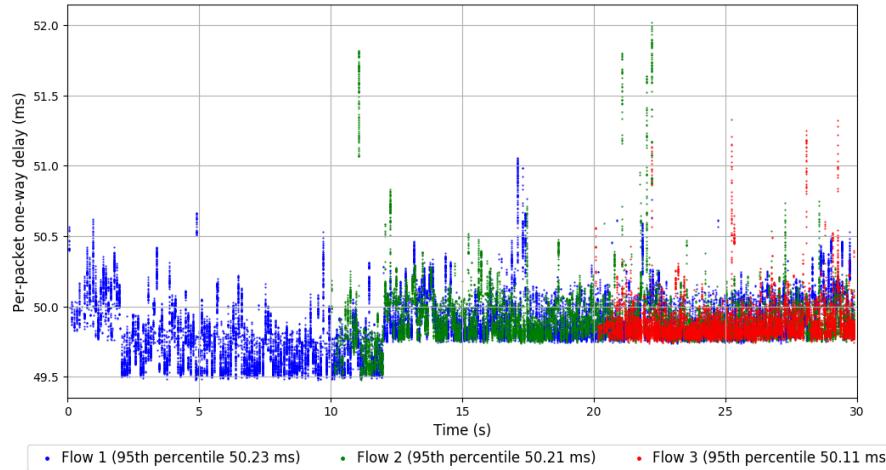
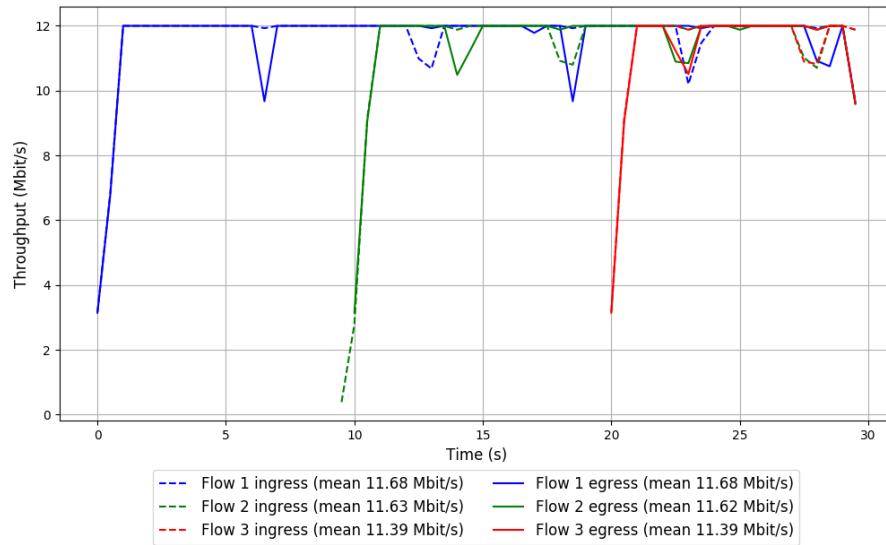
Run 5: Statistics of KohoCC

Start at: 2017-08-21 06:17:34

End at: 2017-08-21 06:18:04

```
# Below is generated by plot.py at 2017-08-21 10:22:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.14 Mbit/s
95th percentile per-packet one-way delay: 50.208 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 11.68 Mbit/s
95th percentile per-packet one-way delay: 50.233 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 11.62 Mbit/s
95th percentile per-packet one-way delay: 50.208 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 11.39 Mbit/s
95th percentile per-packet one-way delay: 50.114 ms
Loss rate: 1.06%
```

Run 5: Report of KohoCC — Data Link



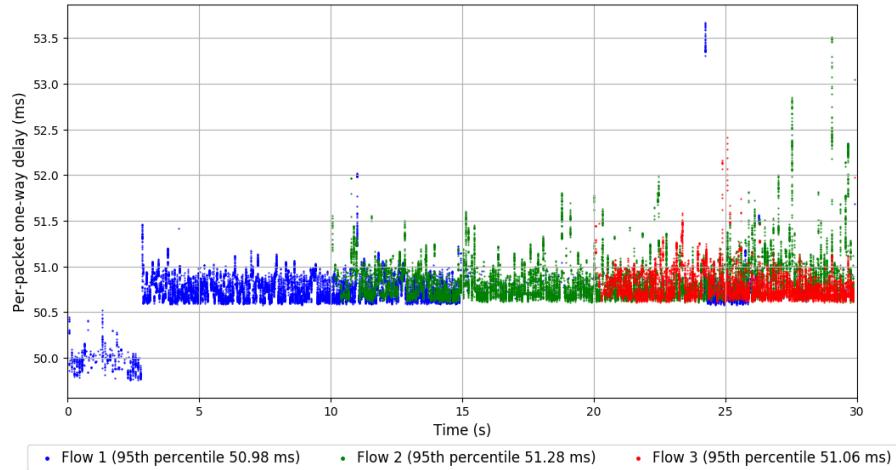
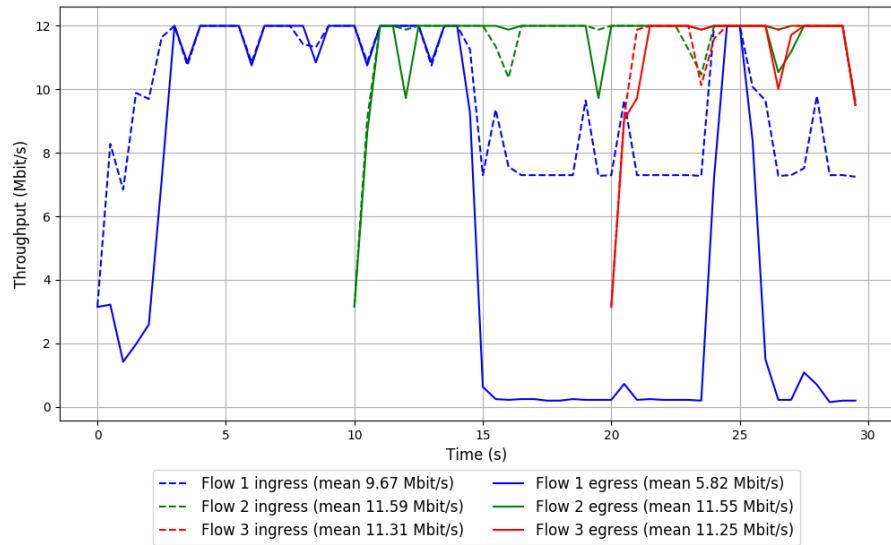
Run 6: Statistics of KohoCC

Start at: 2017-08-21 06:29:33

End at: 2017-08-21 06:30:03

```
# Below is generated by plot.py at 2017-08-21 10:22:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 17.20 Mbit/s
95th percentile per-packet one-way delay: 51.138 ms
Loss rate: 18.70%
-- Flow 1:
Average throughput: 5.82 Mbit/s
95th percentile per-packet one-way delay: 50.981 ms
Loss rate: 39.93%
-- Flow 2:
Average throughput: 11.55 Mbit/s
95th percentile per-packet one-way delay: 51.277 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 11.25 Mbit/s
95th percentile per-packet one-way delay: 51.063 ms
Loss rate: 1.06%
```

Run 6: Report of KohoCC — Data Link



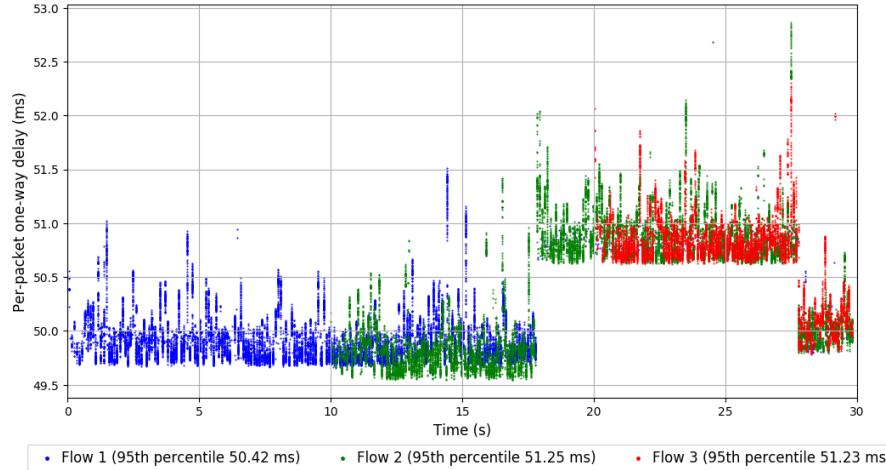
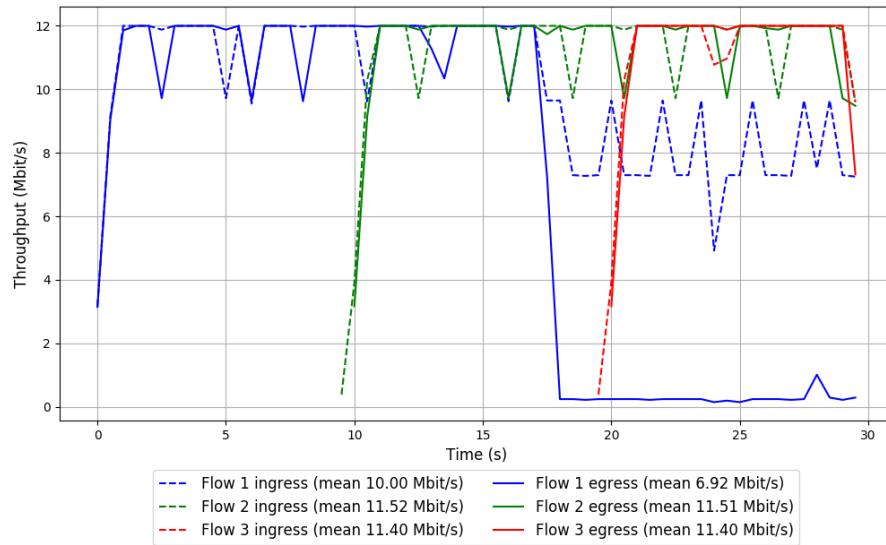
Run 7: Statistics of KohoCC

Start at: 2017-08-21 06:41:58

End at: 2017-08-21 06:42:28

```
# Below is generated by plot.py at 2017-08-21 10:22:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.32 Mbit/s
95th percentile per-packet one-way delay: 51.140 ms
Loss rate: 14.87%
-- Flow 1:
Average throughput: 6.92 Mbit/s
95th percentile per-packet one-way delay: 50.425 ms
Loss rate: 31.05%
-- Flow 2:
Average throughput: 11.51 Mbit/s
95th percentile per-packet one-way delay: 51.251 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 11.40 Mbit/s
95th percentile per-packet one-way delay: 51.227 ms
Loss rate: 1.06%
```

Run 7: Report of KohoCC — Data Link



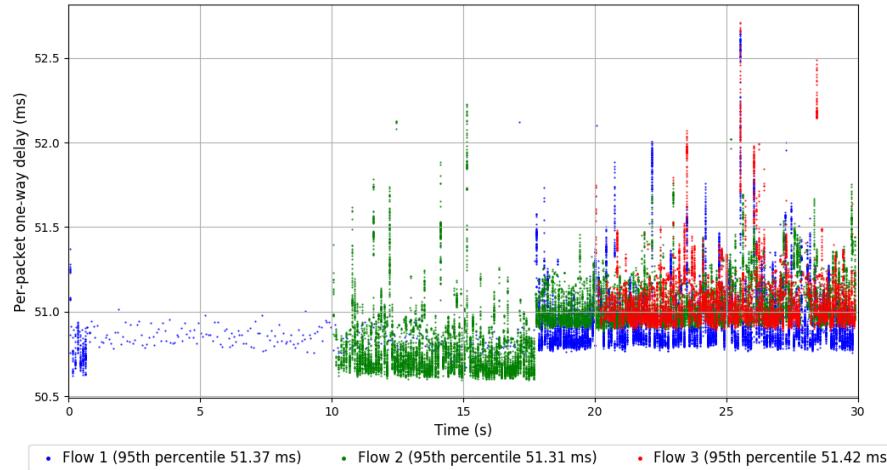
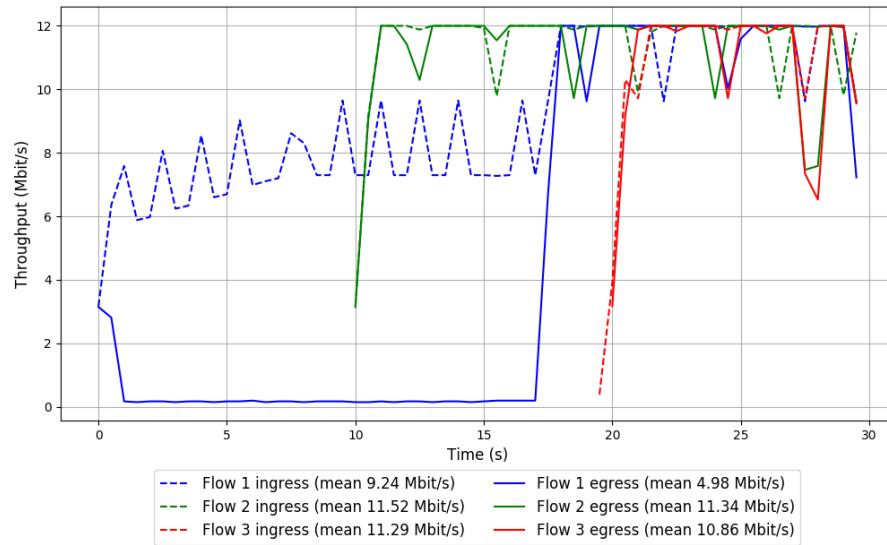
```
Run 8: Statistics of KohoCC
```

```
Start at: 2017-08-21 06:53:58
```

```
End at: 2017-08-21 06:54:28
```

```
# Below is generated by plot.py at 2017-08-21 10:22:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 16.08 Mbit/s
95th percentile per-packet one-way delay: 51.356 ms
Loss rate: 22.33%
-- Flow 1:
Average throughput: 4.98 Mbit/s
95th percentile per-packet one-way delay: 51.367 ms
Loss rate: 46.31%
-- Flow 2:
Average throughput: 11.34 Mbit/s
95th percentile per-packet one-way delay: 51.312 ms
Loss rate: 2.06%
-- Flow 3:
Average throughput: 10.86 Mbit/s
95th percentile per-packet one-way delay: 51.420 ms
Loss rate: 4.73%
```

Run 8: Report of KohoCC — Data Link



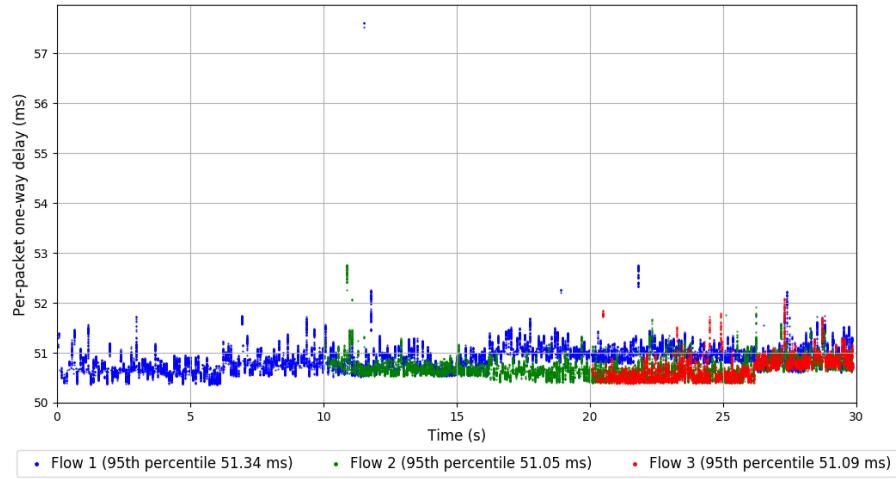
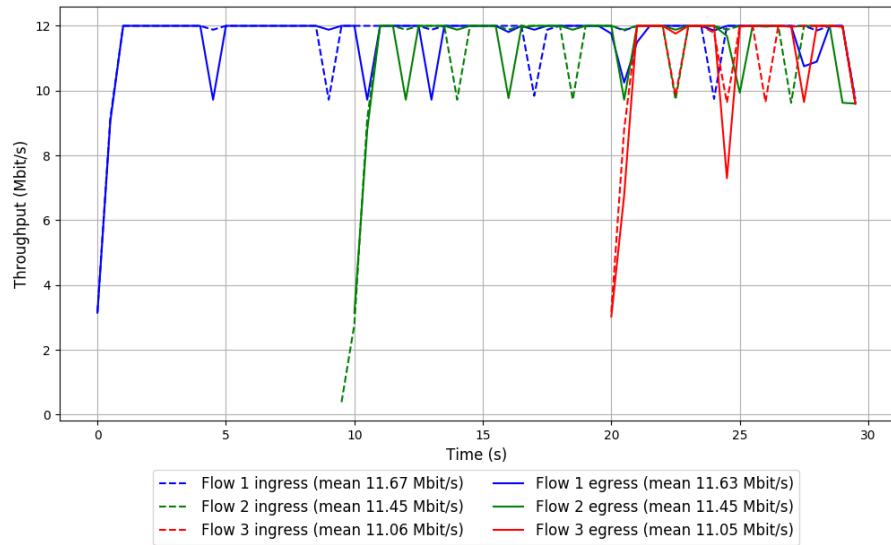
Run 9: Statistics of KohoCC

Start at: 2017-08-21 07:05:40

End at: 2017-08-21 07:06:10

```
# Below is generated by plot.py at 2017-08-21 10:22:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 22.85 Mbit/s
95th percentile per-packet one-way delay: 51.268 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 11.63 Mbit/s
95th percentile per-packet one-way delay: 51.343 ms
Loss rate: 0.74%
-- Flow 2:
Average throughput: 11.45 Mbit/s
95th percentile per-packet one-way delay: 51.054 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 11.05 Mbit/s
95th percentile per-packet one-way delay: 51.087 ms
Loss rate: 1.11%
```

Run 9: Report of KohoCC — Data Link



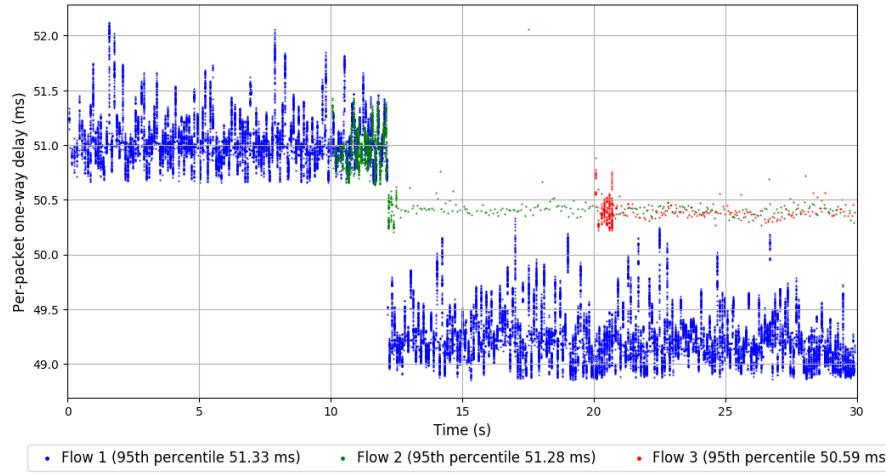
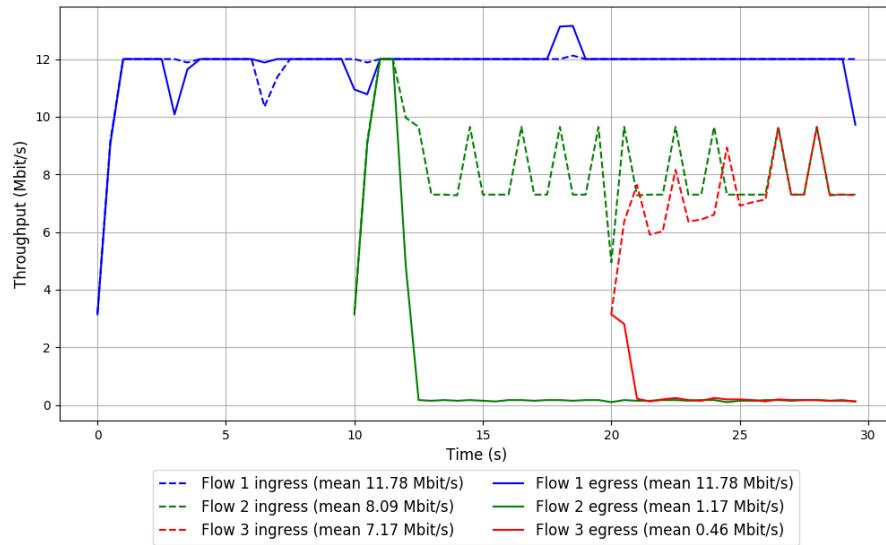
Run 10: Statistics of KohoCC

Start at: 2017-08-21 07:17:24

End at: 2017-08-21 07:17:54

```
# Below is generated by plot.py at 2017-08-21 10:22:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.71 Mbit/s
95th percentile per-packet one-way delay: 51.321 ms
Loss rate: 35.19%
-- Flow 1:
Average throughput: 11.78 Mbit/s
95th percentile per-packet one-way delay: 51.331 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 1.17 Mbit/s
95th percentile per-packet one-way delay: 51.282 ms
Loss rate: 85.64%
-- Flow 3:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 50.594 ms
Loss rate: 93.63%
```

Run 10: Report of KohoCC — Data Link

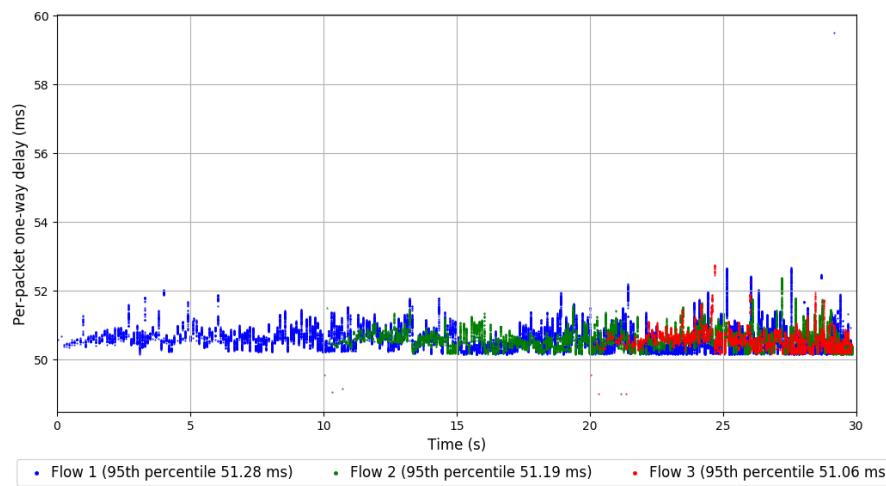
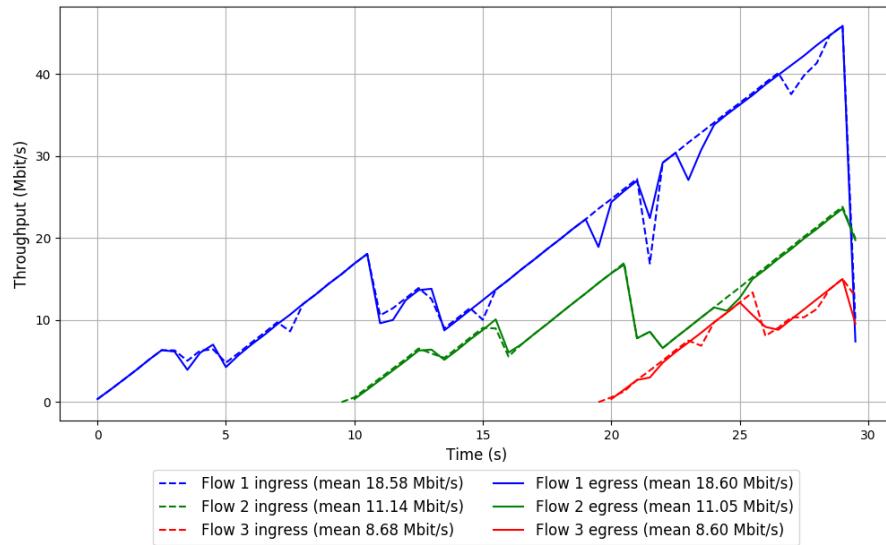


```
Run 1: Statistics of LEDBAT

Start at: 2017-08-21 05:24:13
End at: 2017-08-21 05:24:43

# Below is generated by plot.py at 2017-08-21 10:22:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 28.74 Mbit/s
95th percentile per-packet one-way delay: 51.239 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 18.60 Mbit/s
95th percentile per-packet one-way delay: 51.279 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 11.05 Mbit/s
95th percentile per-packet one-way delay: 51.189 ms
Loss rate: 1.26%
-- Flow 3:
Average throughput: 8.60 Mbit/s
95th percentile per-packet one-way delay: 51.061 ms
Loss rate: 1.93%
```

Run 1: Report of LEDBAT — Data Link



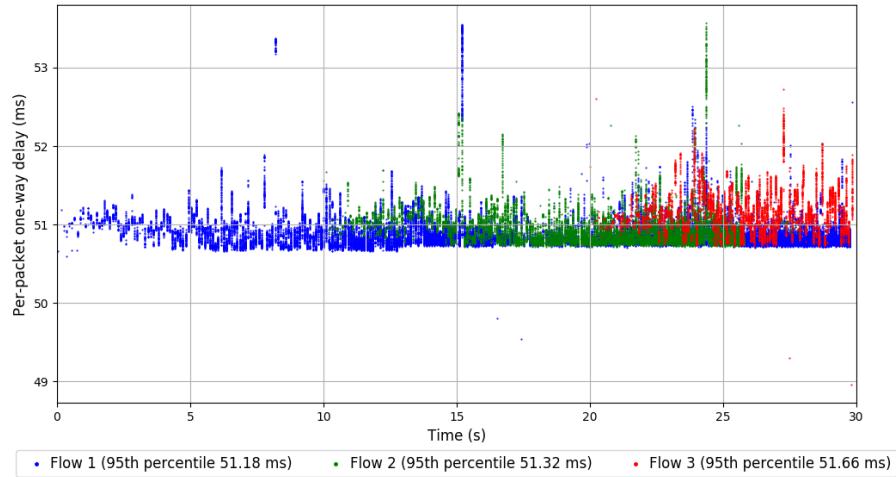
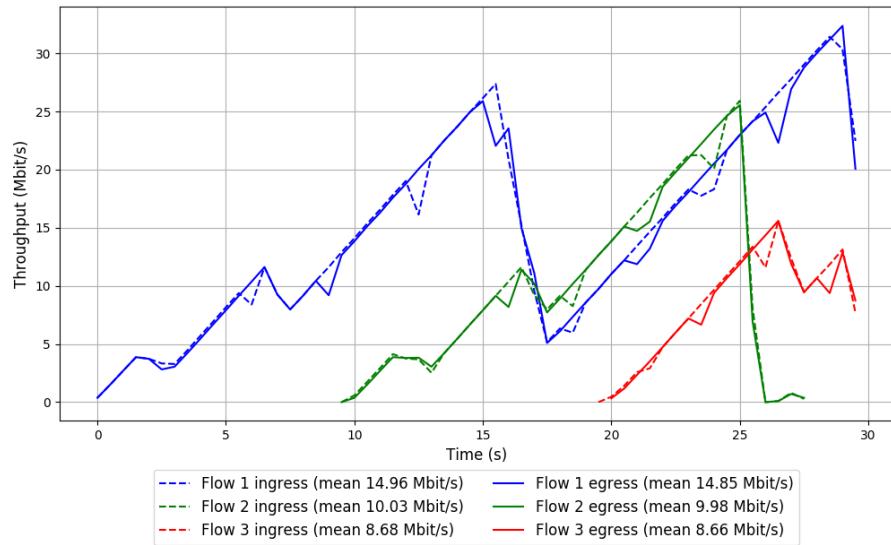
Run 2: Statistics of LEDBAT

Start at: 2017-08-21 05:36:03

End at: 2017-08-21 05:36:33

```
# Below is generated by plot.py at 2017-08-21 10:22:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.66 Mbit/s
95th percentile per-packet one-way delay: 51.353 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 14.85 Mbit/s
95th percentile per-packet one-way delay: 51.184 ms
Loss rate: 0.82%
-- Flow 2:
Average throughput: 9.98 Mbit/s
95th percentile per-packet one-way delay: 51.318 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 8.66 Mbit/s
95th percentile per-packet one-way delay: 51.658 ms
Loss rate: 1.25%
```

Run 2: Report of LEDBAT — Data Link



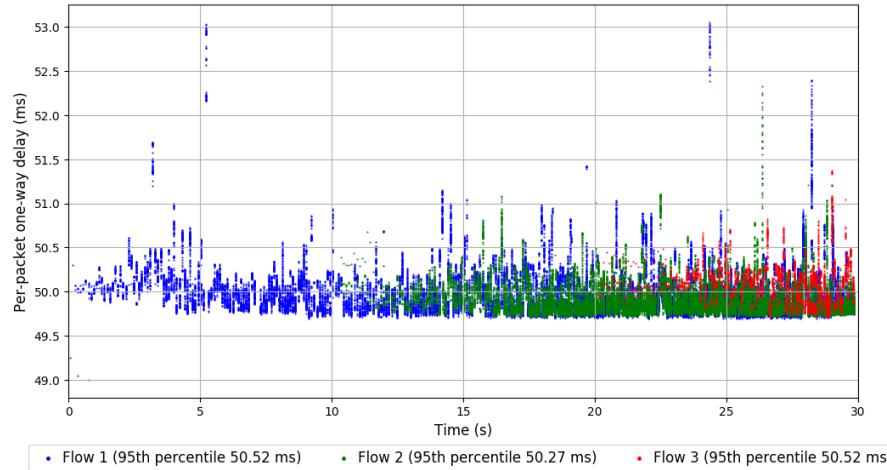
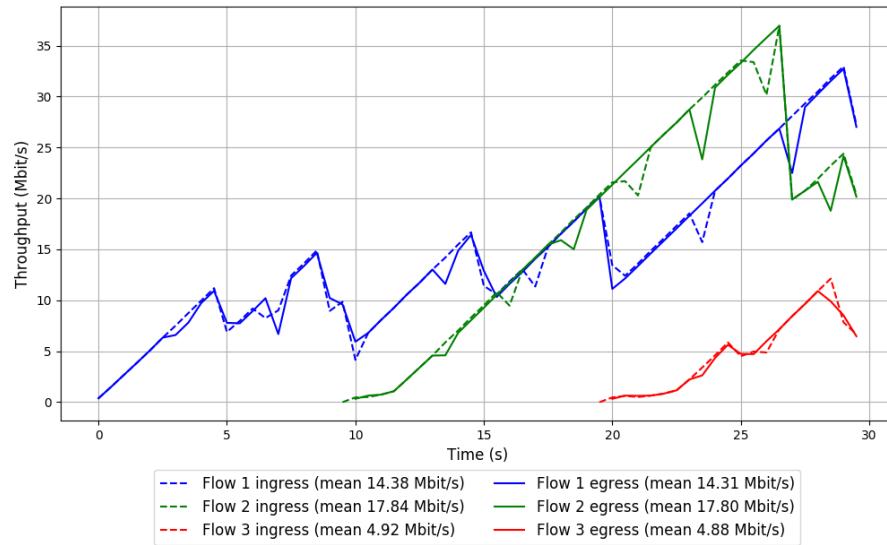
Run 3: Statistics of LEDBAT

Start at: 2017-08-21 05:47:27

End at: 2017-08-21 05:47:57

```
# Below is generated by plot.py at 2017-08-21 10:22:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 27.74 Mbit/s
95th percentile per-packet one-way delay: 50.433 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 14.31 Mbit/s
95th percentile per-packet one-way delay: 50.523 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 17.80 Mbit/s
95th percentile per-packet one-way delay: 50.268 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 4.88 Mbit/s
95th percentile per-packet one-way delay: 50.523 ms
Loss rate: 1.97%
```

Run 3: Report of LEDBAT — Data Link



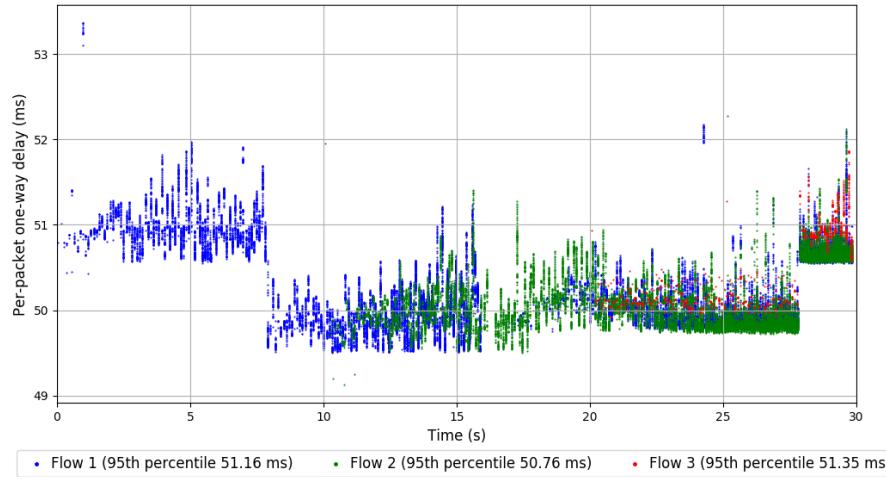
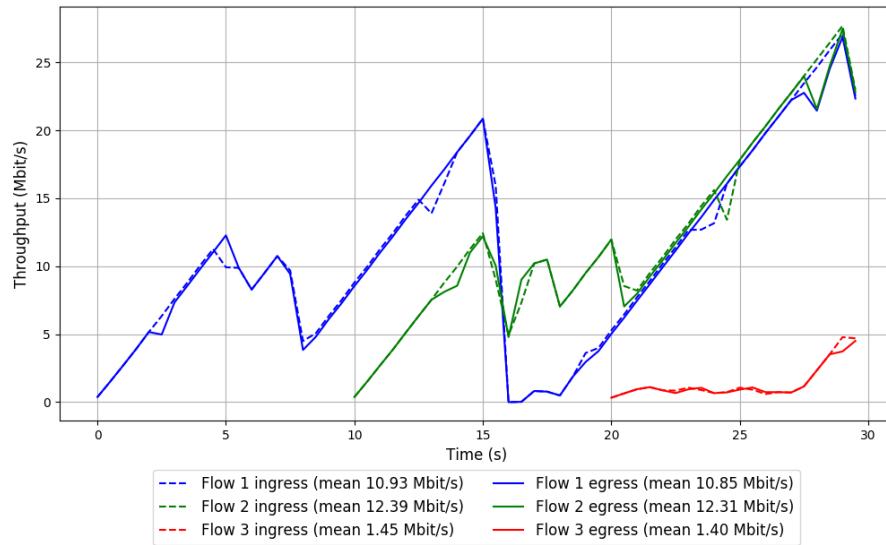
Run 4: Statistics of LEDBAT

Start at: 2017-08-21 05:59:18

End at: 2017-08-21 05:59:48

```
# Below is generated by plot.py at 2017-08-21 10:22:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.48 Mbit/s
95th percentile per-packet one-way delay: 51.036 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 10.85 Mbit/s
95th percentile per-packet one-way delay: 51.165 ms
Loss rate: 1.13%
-- Flow 2:
Average throughput: 12.31 Mbit/s
95th percentile per-packet one-way delay: 50.759 ms
Loss rate: 1.18%
-- Flow 3:
Average throughput: 1.40 Mbit/s
95th percentile per-packet one-way delay: 51.346 ms
Loss rate: 4.34%
```

Run 4: Report of LEDBAT — Data Link



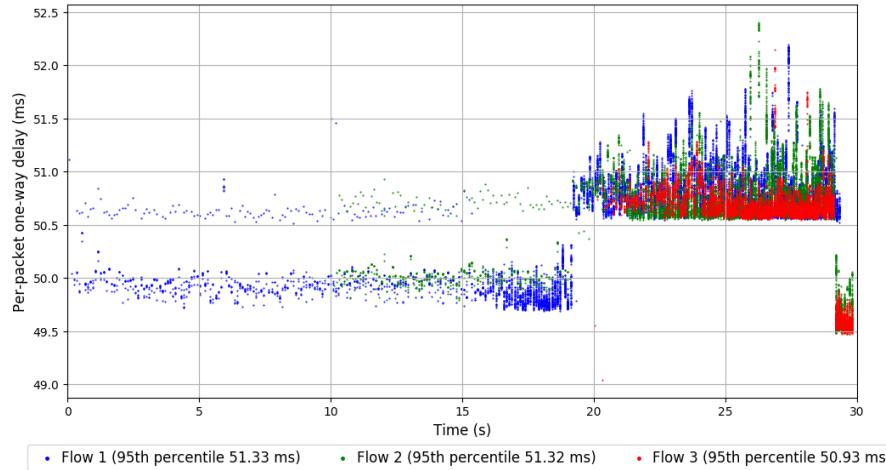
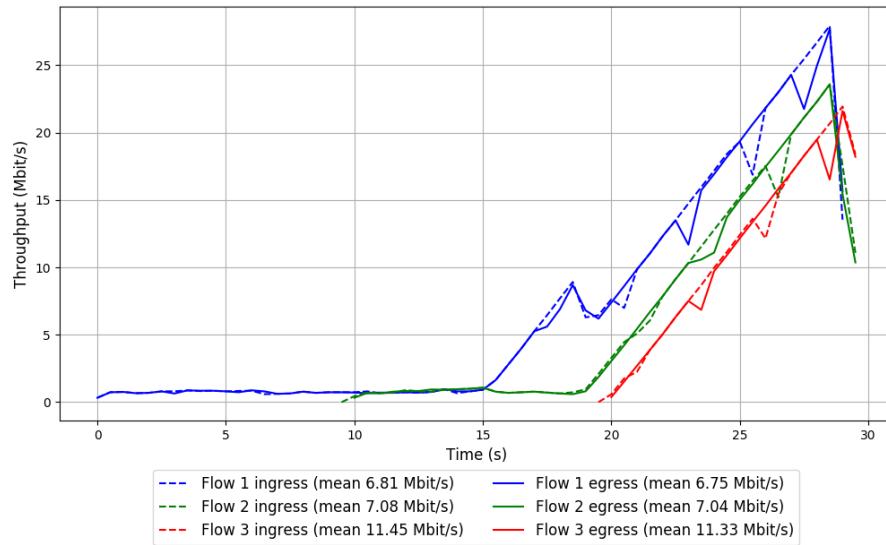
Run 5: Statistics of LEDBAT

Start at: 2017-08-21 06:10:57

End at: 2017-08-21 06:11:27

```
# Below is generated by plot.py at 2017-08-21 10:22:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.04 Mbit/s
95th percentile per-packet one-way delay: 51.244 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 6.75 Mbit/s
95th percentile per-packet one-way delay: 51.325 ms
Loss rate: 0.95%
-- Flow 2:
Average throughput: 7.04 Mbit/s
95th percentile per-packet one-way delay: 51.324 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 11.33 Mbit/s
95th percentile per-packet one-way delay: 50.931 ms
Loss rate: 2.06%
```

Run 5: Report of LEDBAT — Data Link



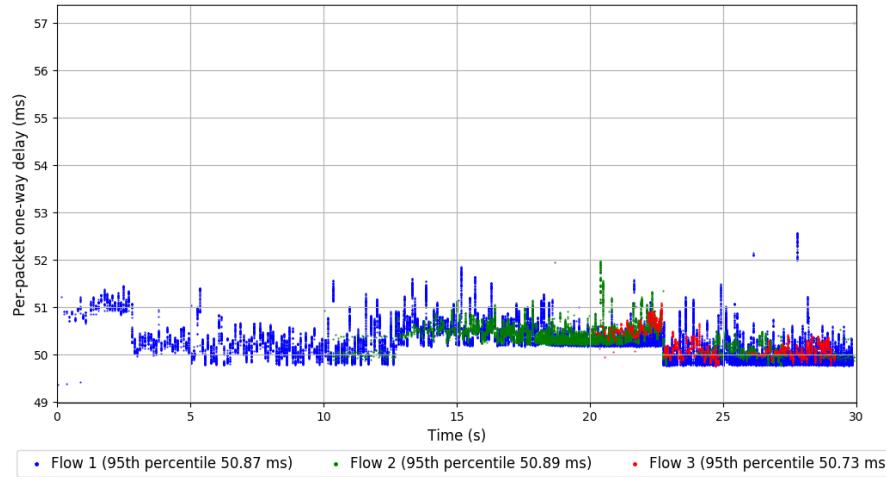
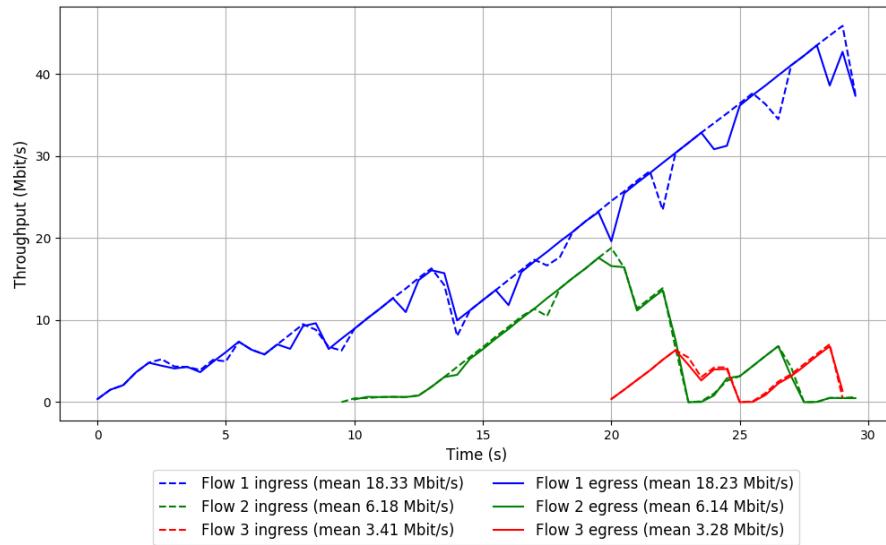
Run 6: Statistics of LEDBAT

Start at: 2017-08-21 06:23:03

End at: 2017-08-21 06:23:33

```
# Below is generated by plot.py at 2017-08-21 10:22:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.27 Mbit/s
95th percentile per-packet one-way delay: 50.868 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 18.23 Mbit/s
95th percentile per-packet one-way delay: 50.873 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 6.14 Mbit/s
95th percentile per-packet one-way delay: 50.891 ms
Loss rate: 1.25%
-- Flow 3:
Average throughput: 3.28 Mbit/s
95th percentile per-packet one-way delay: 50.725 ms
Loss rate: 3.89%
```

Run 6: Report of LEDBAT — Data Link



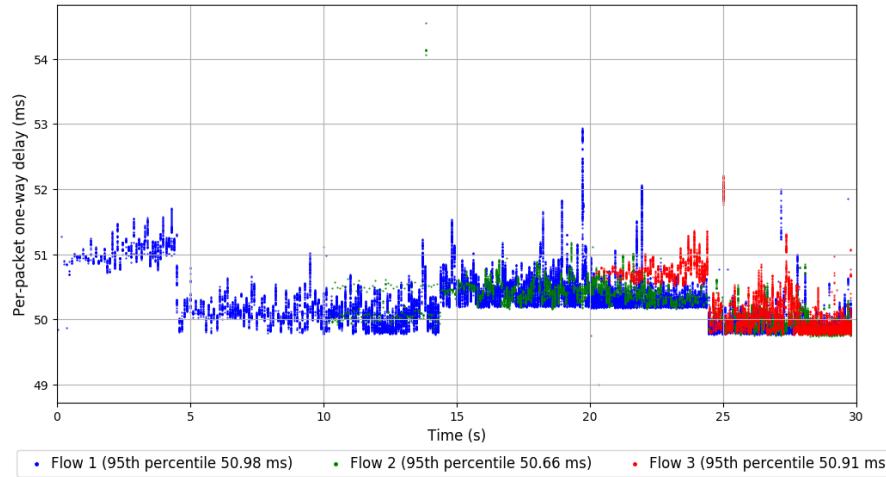
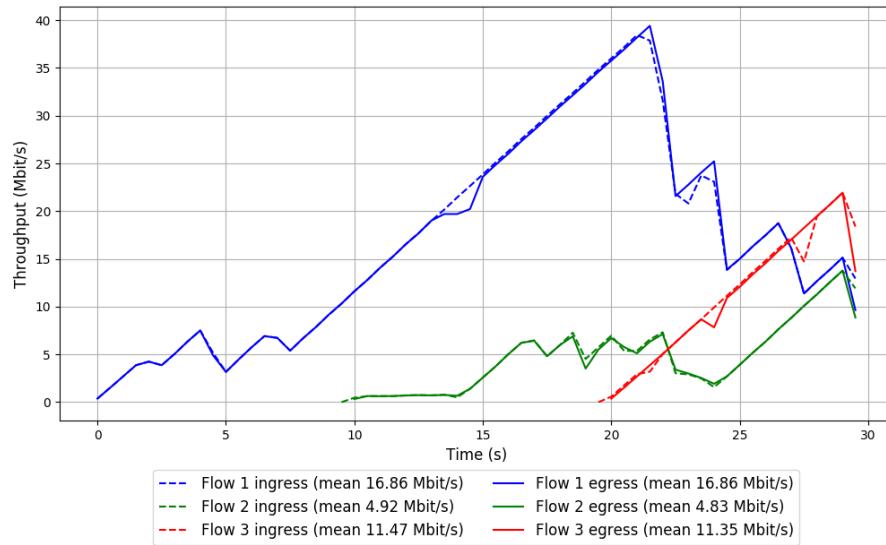
Run 7: Statistics of LEDBAT

Start at: 2017-08-21 06:35:32

End at: 2017-08-21 06:36:02

```
# Below is generated by plot.py at 2017-08-21 10:22:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.79 Mbit/s
95th percentile per-packet one-way delay: 50.926 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 16.86 Mbit/s
95th percentile per-packet one-way delay: 50.985 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 4.83 Mbit/s
95th percentile per-packet one-way delay: 50.665 ms
Loss rate: 2.25%
-- Flow 3:
Average throughput: 11.35 Mbit/s
95th percentile per-packet one-way delay: 50.913 ms
Loss rate: 2.06%
```

Run 7: Report of LEDBAT — Data Link



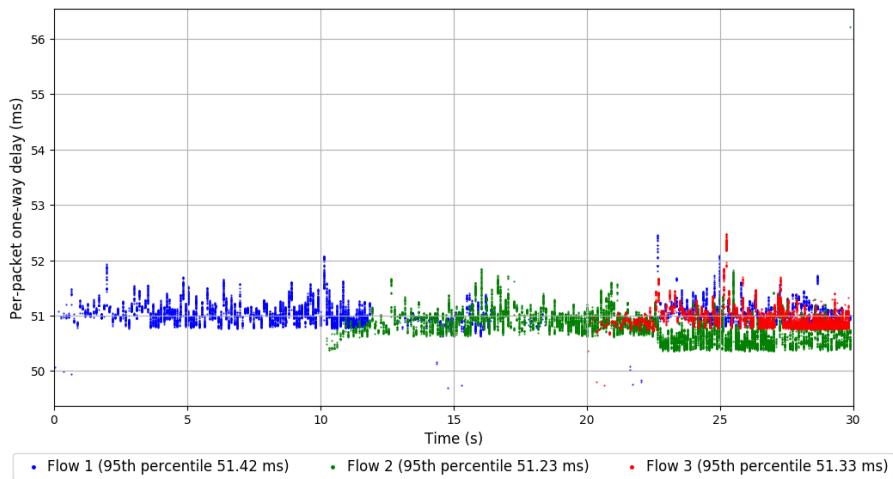
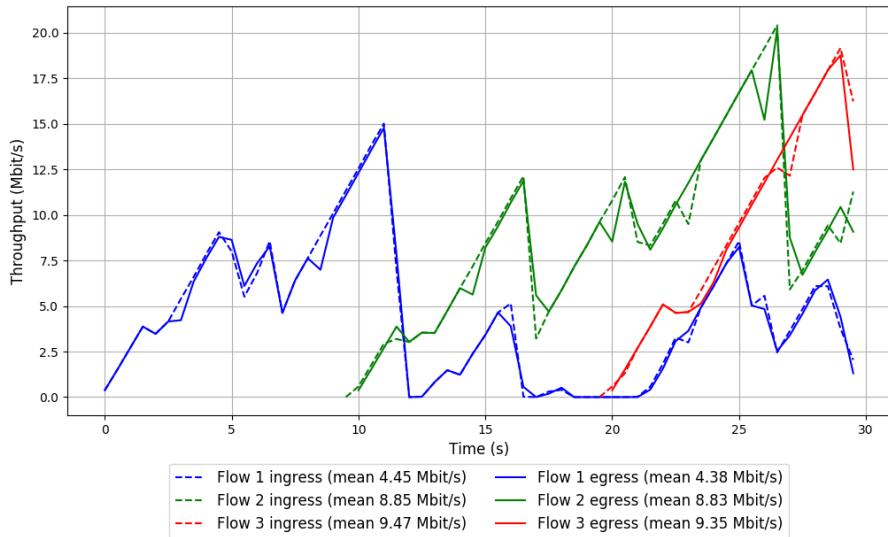
Run 8: Statistics of LEDBAT

Start at: 2017-08-21 06:47:23

End at: 2017-08-21 06:47:53

```
# Below is generated by plot.py at 2017-08-21 10:22:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.32 Mbit/s
95th percentile per-packet one-way delay: 51.343 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 4.38 Mbit/s
95th percentile per-packet one-way delay: 51.418 ms
Loss rate: 1.82%
-- Flow 2:
Average throughput: 8.83 Mbit/s
95th percentile per-packet one-way delay: 51.229 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 9.35 Mbit/s
95th percentile per-packet one-way delay: 51.325 ms
Loss rate: 2.21%
```

Run 8: Report of LEDBAT — Data Link



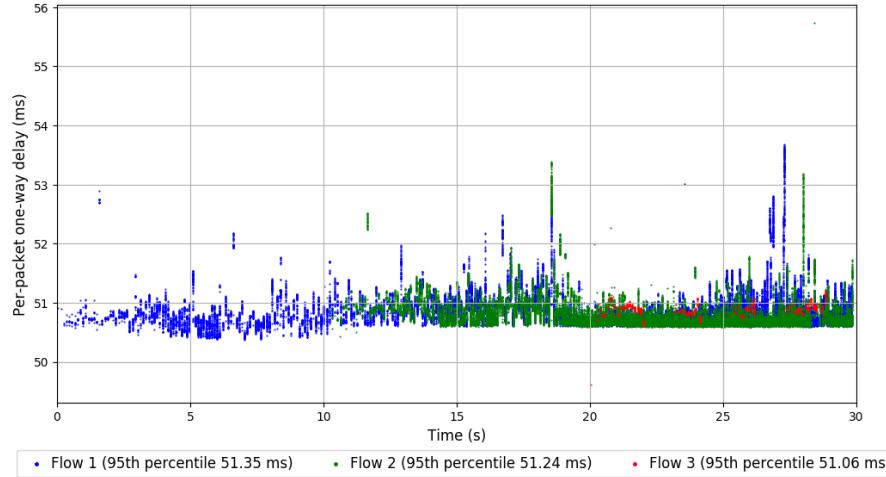
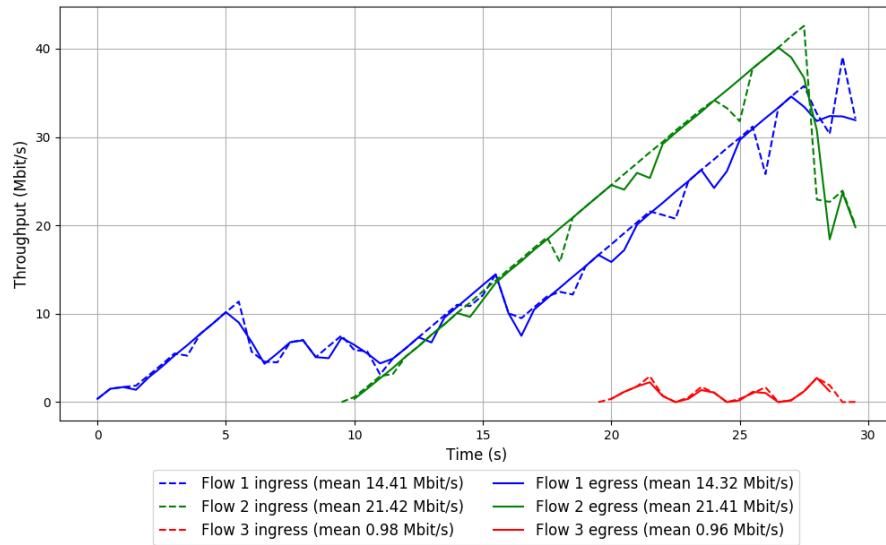
Run 9: Statistics of LEDBAT

Start at: 2017-08-21 06:59:06

End at: 2017-08-21 06:59:36

```
# Below is generated by plot.py at 2017-08-21 10:22:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 28.83 Mbit/s
95th percentile per-packet one-way delay: 51.297 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 14.32 Mbit/s
95th percentile per-packet one-way delay: 51.350 ms
Loss rate: 1.01%
-- Flow 2:
Average throughput: 21.41 Mbit/s
95th percentile per-packet one-way delay: 51.237 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 0.96 Mbit/s
95th percentile per-packet one-way delay: 51.064 ms
Loss rate: 13.38%
```

Run 9: Report of LEDBAT — Data Link



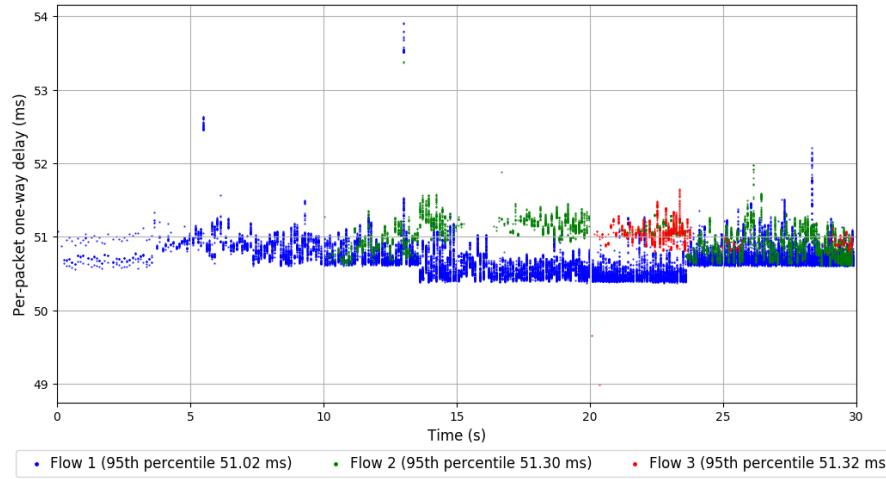
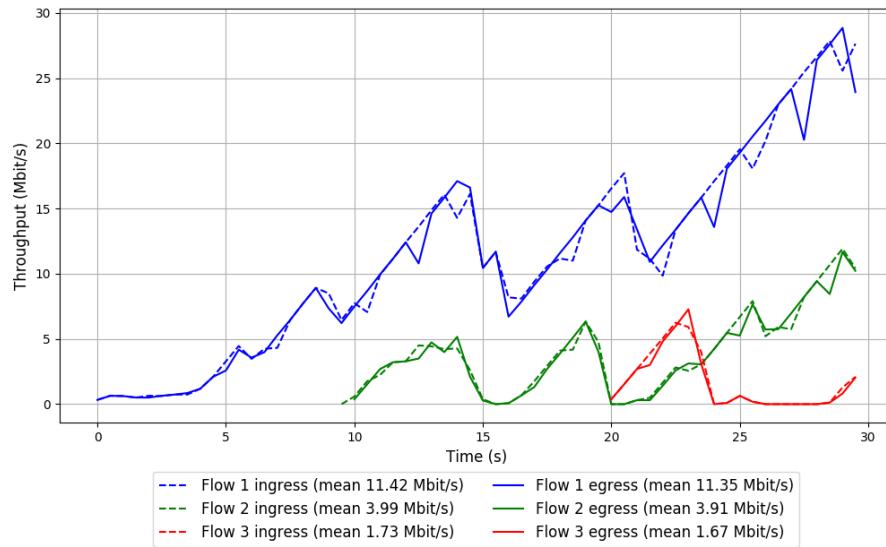
Run 10: Statistics of LEDBAT

Start at: 2017-08-21 07:11:02

End at: 2017-08-21 07:11:32

```
# Below is generated by plot.py at 2017-08-21 10:22:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.49 Mbit/s
95th percentile per-packet one-way delay: 51.179 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 11.35 Mbit/s
95th percentile per-packet one-way delay: 51.021 ms
Loss rate: 0.92%
-- Flow 2:
Average throughput: 3.91 Mbit/s
95th percentile per-packet one-way delay: 51.295 ms
Loss rate: 2.69%
-- Flow 3:
Average throughput: 1.67 Mbit/s
95th percentile per-packet one-way delay: 51.319 ms
Loss rate: 4.20%
```

Run 10: Report of LEDBAT — Data Link

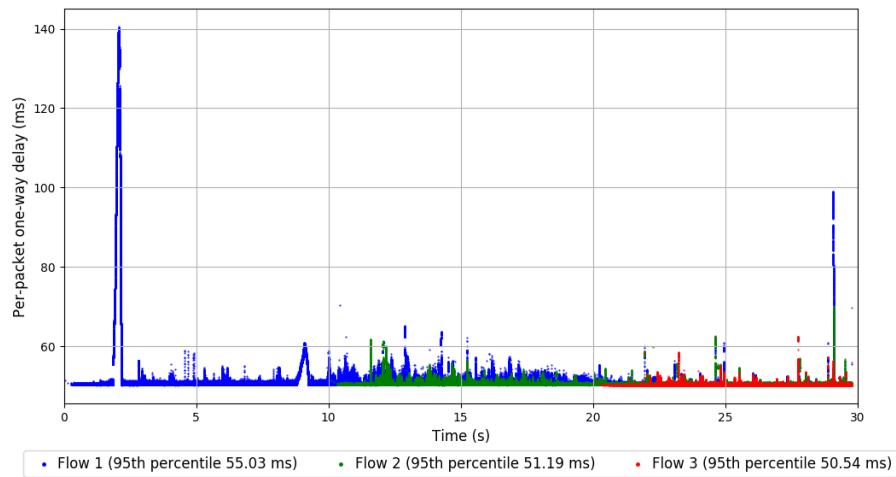
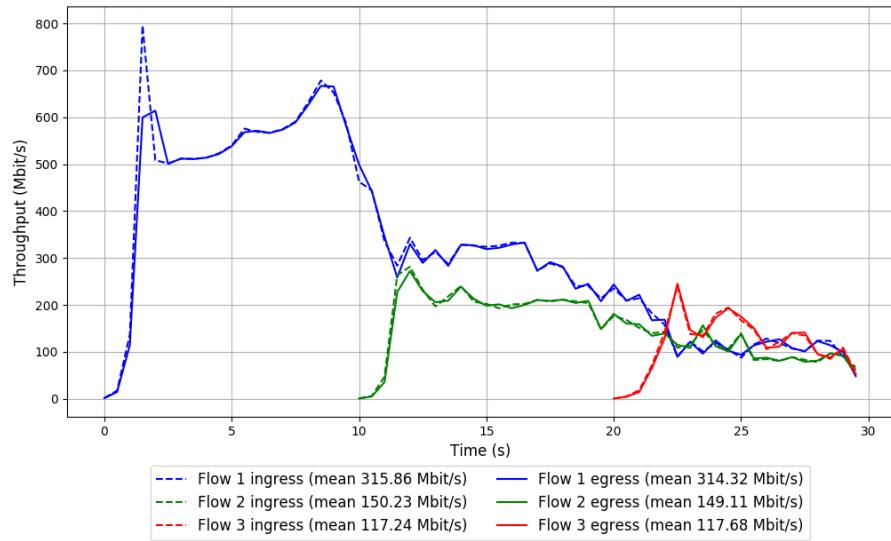


```
Run 1: Statistics of PCC

Start at: 2017-08-21 05:29:33
End at: 2017-08-21 05:30:03

# Below is generated by plot.py at 2017-08-21 10:24:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 451.01 Mbit/s
95th percentile per-packet one-way delay: 53.459 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 314.32 Mbit/s
95th percentile per-packet one-way delay: 55.031 ms
Loss rate: 0.82%
-- Flow 2:
Average throughput: 149.11 Mbit/s
95th percentile per-packet one-way delay: 51.186 ms
Loss rate: 1.17%
-- Flow 3:
Average throughput: 117.68 Mbit/s
95th percentile per-packet one-way delay: 50.544 ms
Loss rate: 0.77%
```

Run 1: Report of PCC — Data Link



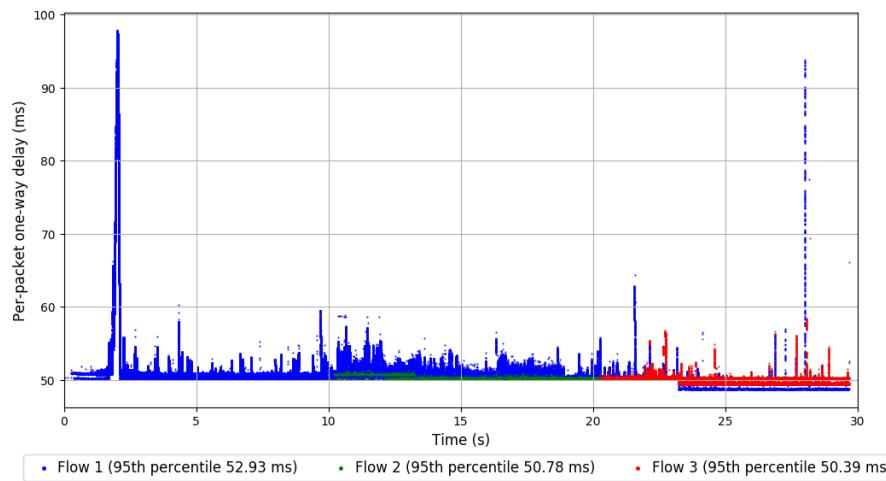
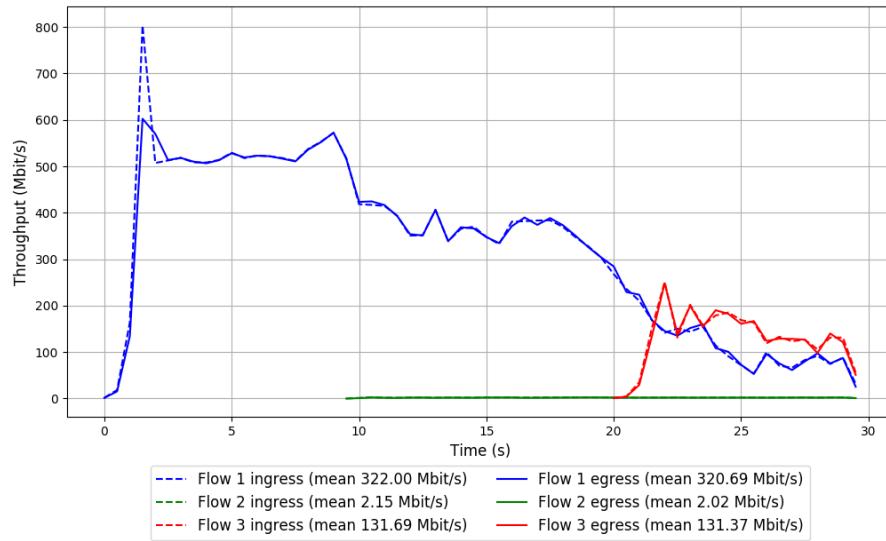
Run 2: Statistics of PCC

Start at: 2017-08-21 05:41:23

End at: 2017-08-21 05:41:53

```
# Below is generated by plot.py at 2017-08-21 10:24:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 364.55 Mbit/s
95th percentile per-packet one-way delay: 52.677 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 320.69 Mbit/s
95th percentile per-packet one-way delay: 52.932 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 50.785 ms
Loss rate: 6.69%
-- Flow 3:
Average throughput: 131.37 Mbit/s
95th percentile per-packet one-way delay: 50.388 ms
Loss rate: 1.13%
```

Run 2: Report of PCC — Data Link



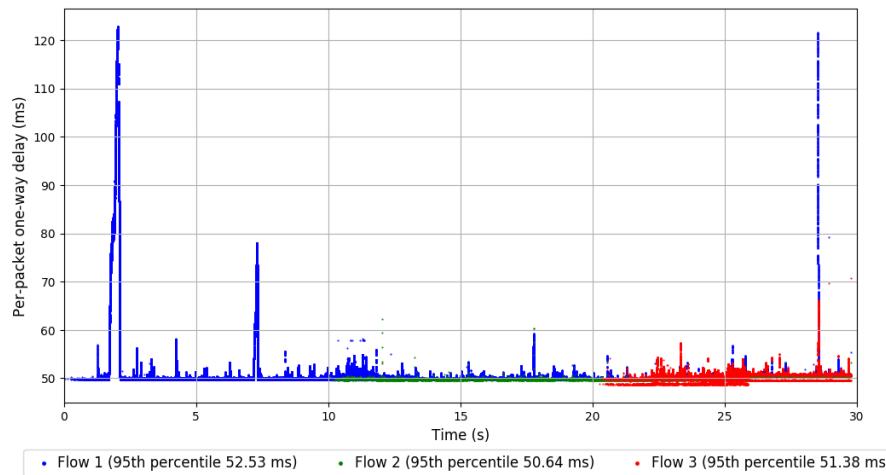
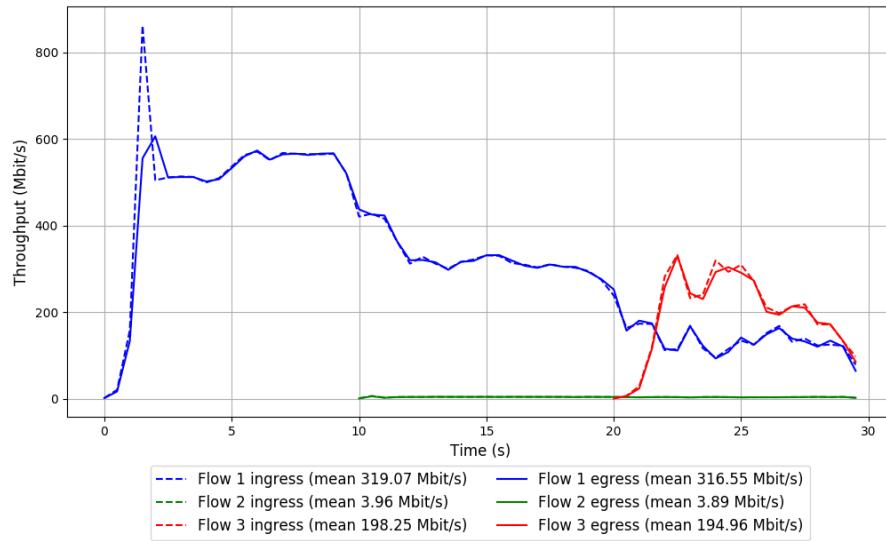
Run 3: Statistics of PCC

Start at: 2017-08-21 05:53:00

End at: 2017-08-21 05:53:30

```
# Below is generated by plot.py at 2017-08-21 10:24:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 382.08 Mbit/s
95th percentile per-packet one-way delay: 51.981 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 316.55 Mbit/s
95th percentile per-packet one-way delay: 52.528 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 3.89 Mbit/s
95th percentile per-packet one-way delay: 50.638 ms
Loss rate: 2.41%
-- Flow 3:
Average throughput: 194.96 Mbit/s
95th percentile per-packet one-way delay: 51.378 ms
Loss rate: 2.51%
```

Run 3: Report of PCC — Data Link



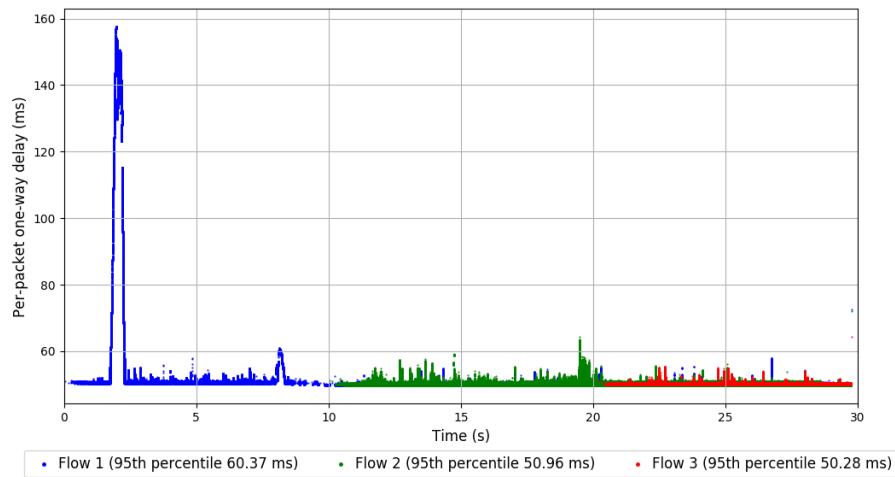
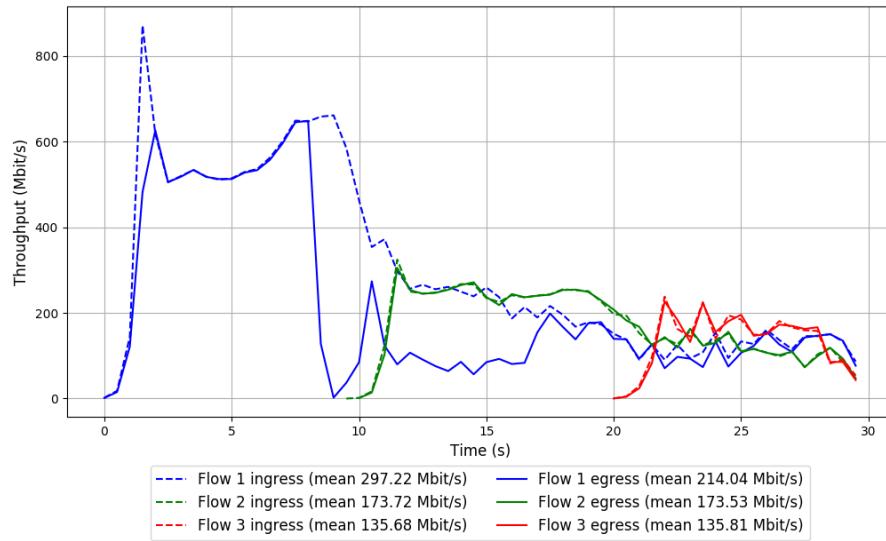
Run 4: Statistics of PCC

Start at: 2017-08-21 06:04:47

End at: 2017-08-21 06:05:17

```
# Below is generated by plot.py at 2017-08-21 10:25:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 372.84 Mbit/s
95th percentile per-packet one-way delay: 53.758 ms
Loss rate: 18.55%
-- Flow 1:
Average throughput: 214.04 Mbit/s
95th percentile per-packet one-way delay: 60.371 ms
Loss rate: 28.17%
-- Flow 2:
Average throughput: 173.53 Mbit/s
95th percentile per-packet one-way delay: 50.961 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 135.81 Mbit/s
95th percentile per-packet one-way delay: 50.280 ms
Loss rate: 0.80%
```

Run 4: Report of PCC — Data Link



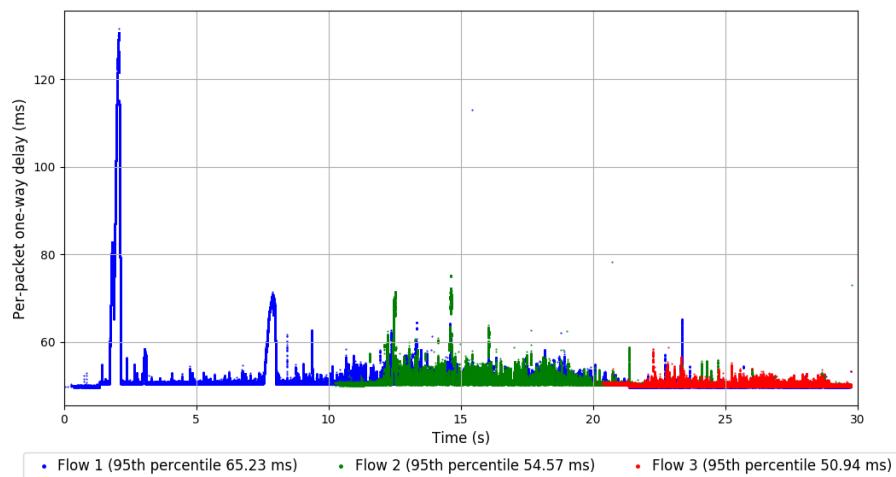
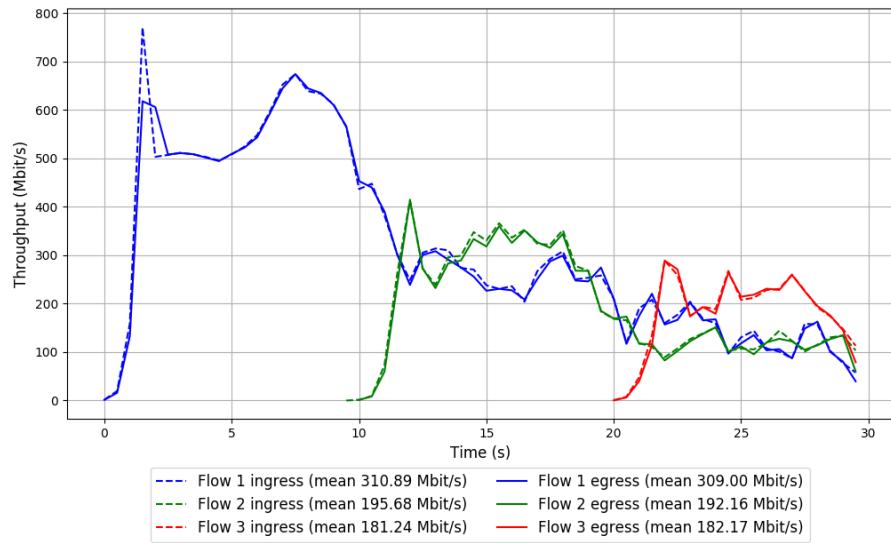
Run 5: Statistics of PCC

Start at: 2017-08-21 06:16:35

End at: 2017-08-21 06:17:05

```
# Below is generated by plot.py at 2017-08-21 10:26:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 495.35 Mbit/s
95th percentile per-packet one-way delay: 56.642 ms
Loss rate: 1.60%
-- Flow 1:
Average throughput: 309.00 Mbit/s
95th percentile per-packet one-way delay: 65.233 ms
Loss rate: 1.19%
-- Flow 2:
Average throughput: 192.16 Mbit/s
95th percentile per-packet one-way delay: 54.568 ms
Loss rate: 2.63%
-- Flow 3:
Average throughput: 182.17 Mbit/s
95th percentile per-packet one-way delay: 50.943 ms
Loss rate: 1.47%
```

Run 5: Report of PCC — Data Link



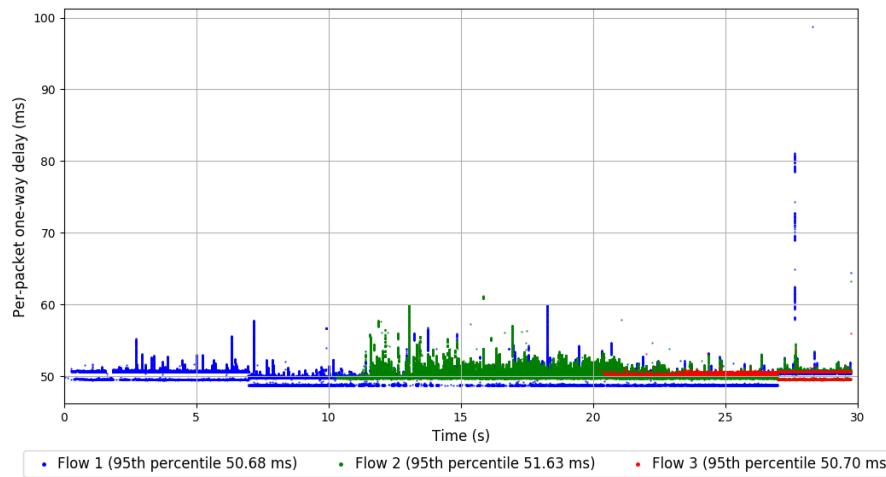
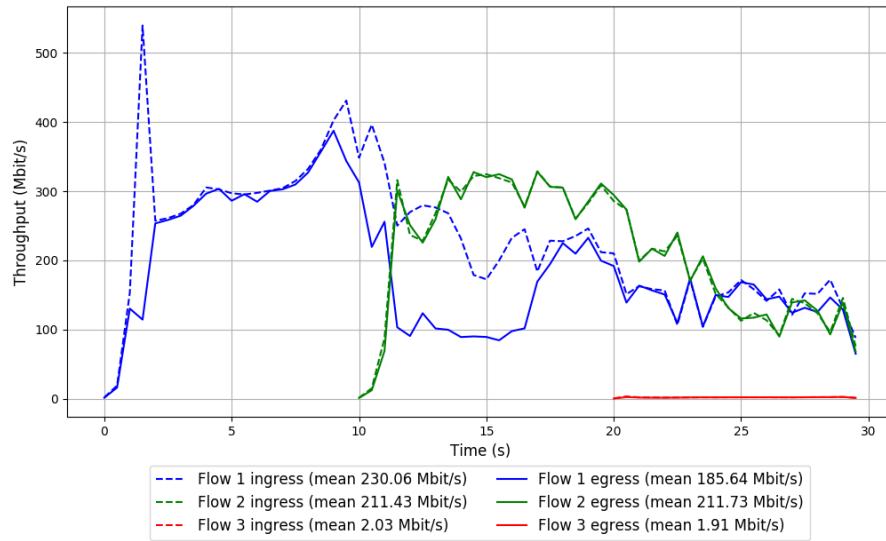
Run 6: Statistics of PCC

Start at: 2017-08-21 06:28:39

End at: 2017-08-21 06:29:09

```
# Below is generated by plot.py at 2017-08-21 10:26:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 326.53 Mbit/s
95th percentile per-packet one-way delay: 51.143 ms
Loss rate: 12.25%
-- Flow 1:
Average throughput: 185.64 Mbit/s
95th percentile per-packet one-way delay: 50.683 ms
Loss rate: 19.55%
-- Flow 2:
Average throughput: 211.73 Mbit/s
95th percentile per-packet one-way delay: 51.634 ms
Loss rate: 0.30%
-- Flow 3:
Average throughput: 1.91 Mbit/s
95th percentile per-packet one-way delay: 50.702 ms
Loss rate: 6.87%
```

Run 6: Report of PCC — Data Link



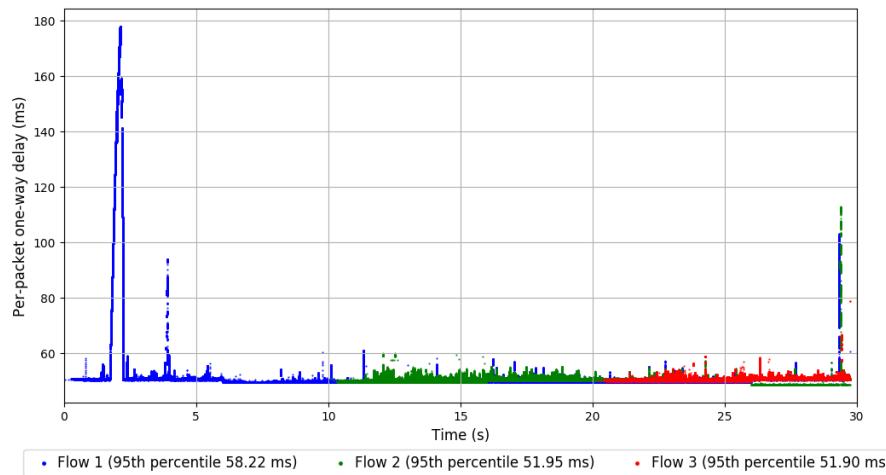
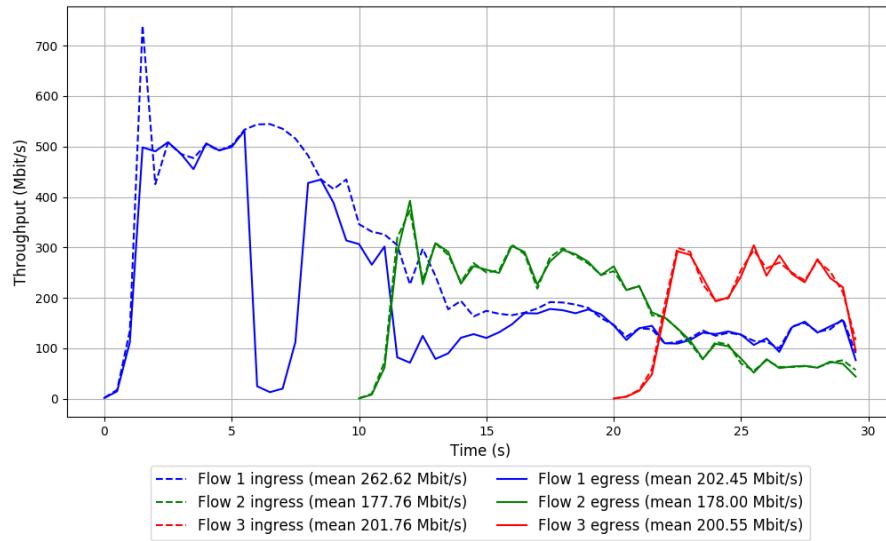
Run 7: Statistics of PCC

Start at: 2017-08-21 06:41:00

End at: 2017-08-21 06:41:30

```
# Below is generated by plot.py at 2017-08-21 10:27:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 384.54 Mbit/s
95th percentile per-packet one-way delay: 52.391 ms
Loss rate: 13.97%
-- Flow 1:
Average throughput: 202.45 Mbit/s
95th percentile per-packet one-way delay: 58.218 ms
Loss rate: 23.16%
-- Flow 2:
Average throughput: 178.00 Mbit/s
95th percentile per-packet one-way delay: 51.955 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 200.55 Mbit/s
95th percentile per-packet one-way delay: 51.896 ms
Loss rate: 1.44%
```

Run 7: Report of PCC — Data Link



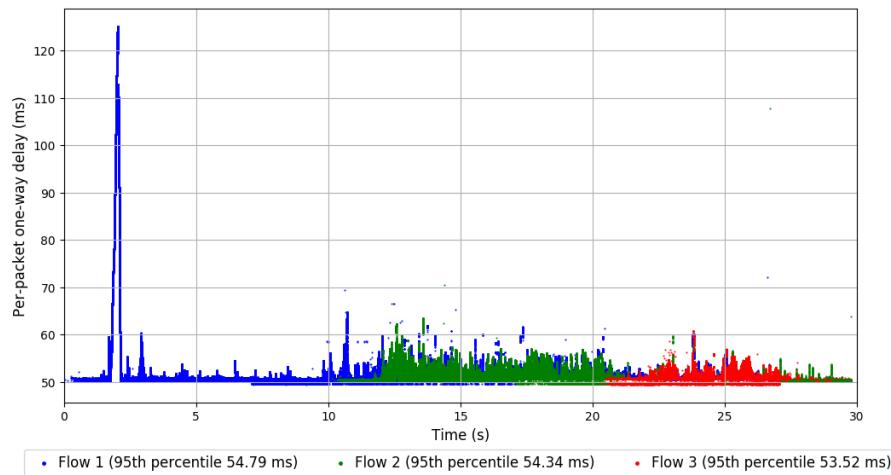
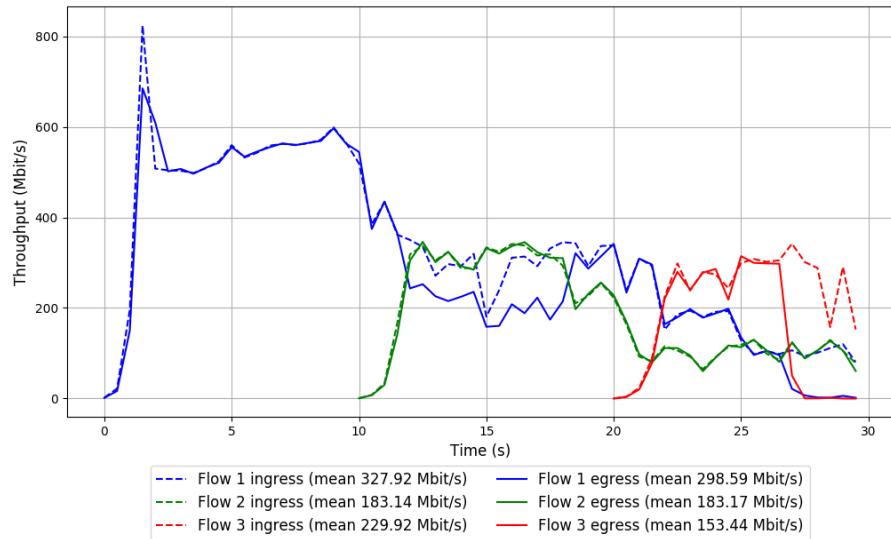
Run 8: Statistics of PCC

Start at: 2017-08-21 06:52:59

End at: 2017-08-21 06:53:29

```
# Below is generated by plot.py at 2017-08-21 10:27:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 467.56 Mbit/s
95th percentile per-packet one-way delay: 54.320 ms
Loss rate: 10.94%
-- Flow 1:
Average throughput: 298.59 Mbit/s
95th percentile per-packet one-way delay: 54.788 ms
Loss rate: 9.43%
-- Flow 2:
Average throughput: 183.17 Mbit/s
95th percentile per-packet one-way delay: 54.344 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 153.44 Mbit/s
95th percentile per-packet one-way delay: 53.525 ms
Loss rate: 34.71%
```

Run 8: Report of PCC — Data Link



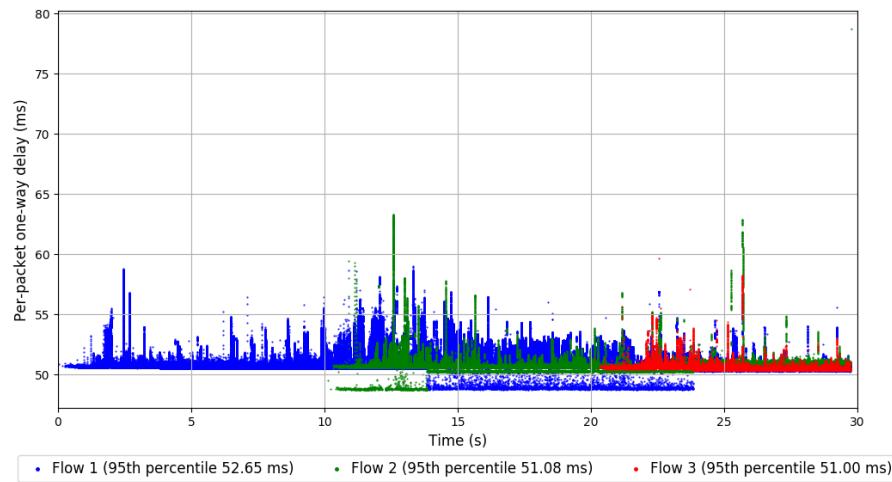
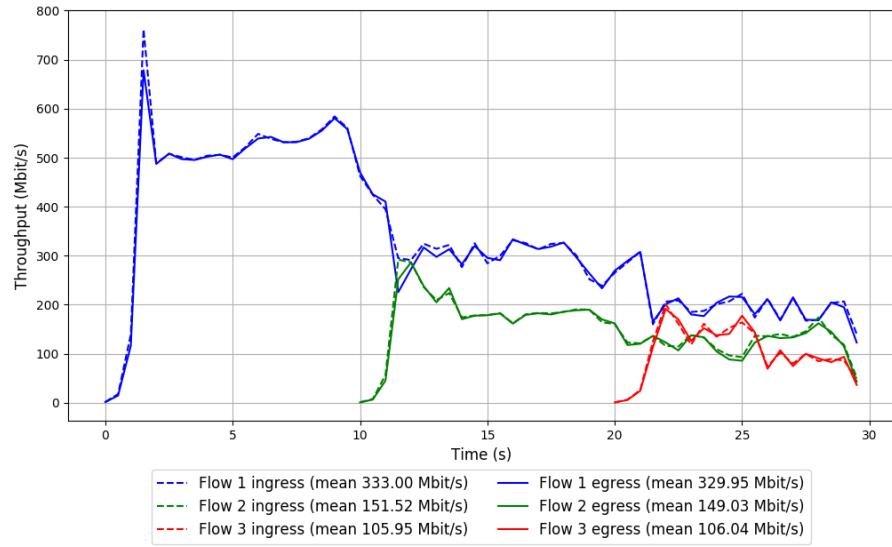
Run 9: Statistics of PCC

Start at: 2017-08-21 07:04:42

End at: 2017-08-21 07:05:12

```
# Below is generated by plot.py at 2017-08-21 10:28:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 462.46 Mbit/s
95th percentile per-packet one-way delay: 52.373 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 329.95 Mbit/s
95th percentile per-packet one-way delay: 52.646 ms
Loss rate: 1.28%
-- Flow 2:
Average throughput: 149.03 Mbit/s
95th percentile per-packet one-way delay: 51.080 ms
Loss rate: 2.04%
-- Flow 3:
Average throughput: 106.04 Mbit/s
95th percentile per-packet one-way delay: 51.001 ms
Loss rate: 1.02%
```

Run 9: Report of PCC — Data Link



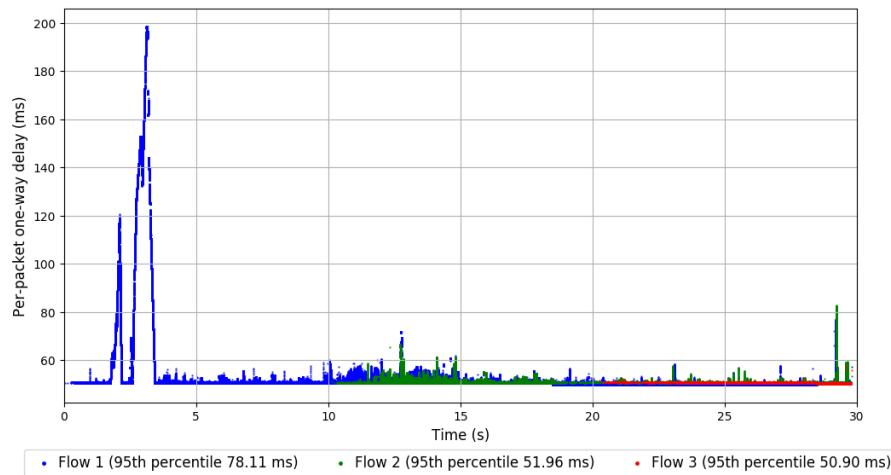
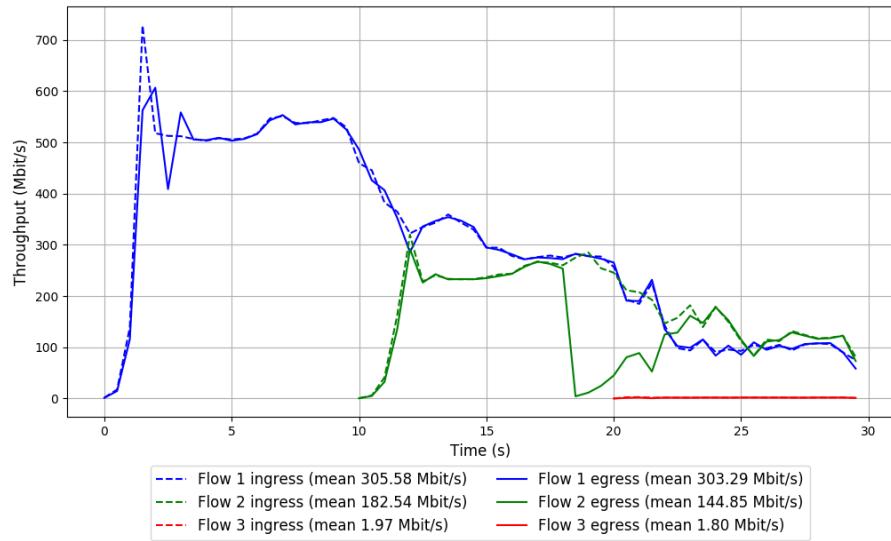
Run 10: Statistics of PCC

Start at: 2017-08-21 07:16:27

End at: 2017-08-21 07:16:57

```
# Below is generated by plot.py at 2017-08-21 10:28:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 399.66 Mbit/s
95th percentile per-packet one-way delay: 62.669 ms
Loss rate: 6.74%
-- Flow 1:
Average throughput: 303.29 Mbit/s
95th percentile per-packet one-way delay: 78.115 ms
Loss rate: 1.07%
-- Flow 2:
Average throughput: 144.85 Mbit/s
95th percentile per-packet one-way delay: 51.964 ms
Loss rate: 21.05%
-- Flow 3:
Average throughput: 1.80 Mbit/s
95th percentile per-packet one-way delay: 50.903 ms
Loss rate: 9.36%
```

Run 10: Report of PCC — Data Link

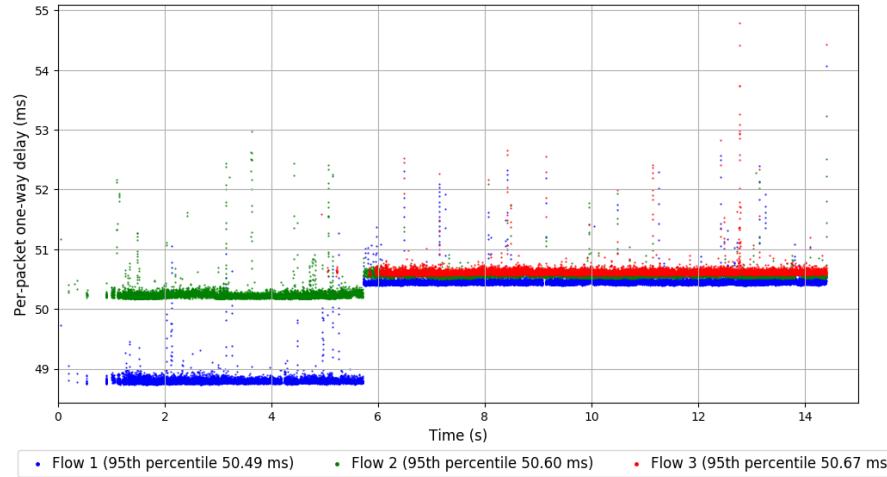
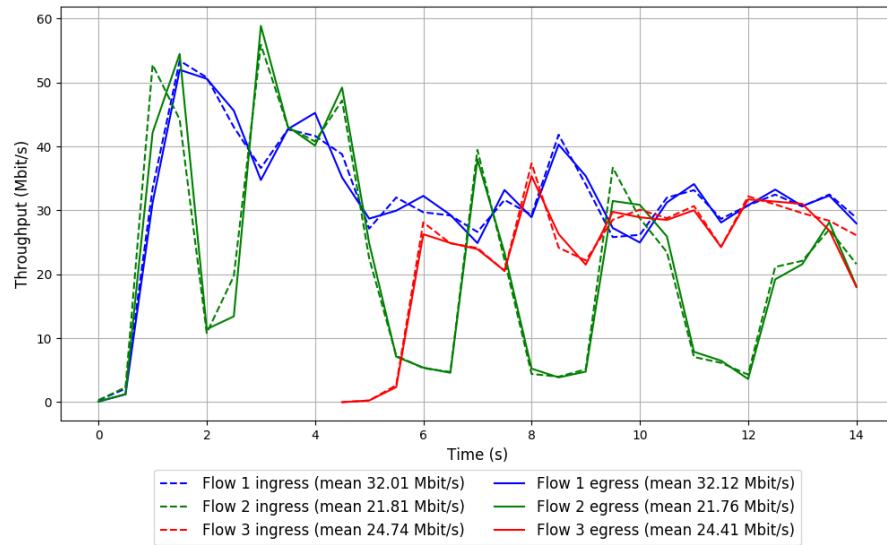


Run 1: Statistics of QUIC Cubic

Start at: 2017-08-21 05:33:15

End at: 2017-08-21 05:33:45

Run 1: Report of QUIC Cubic — Data Link



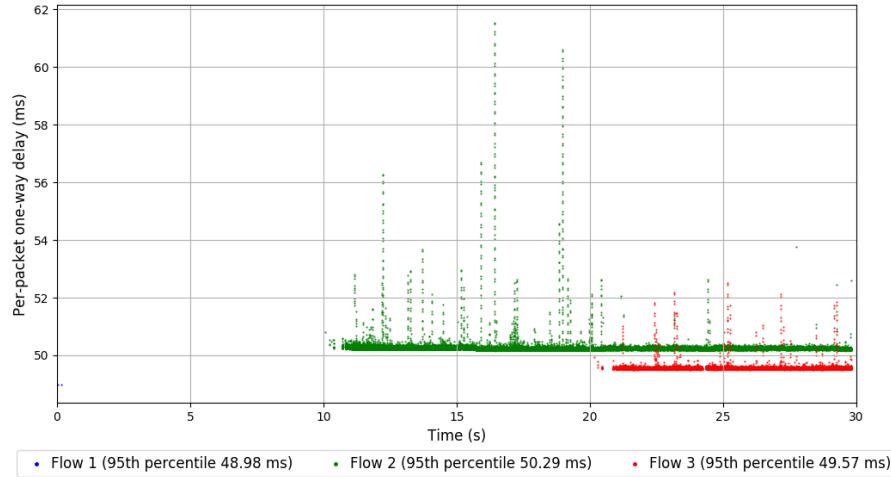
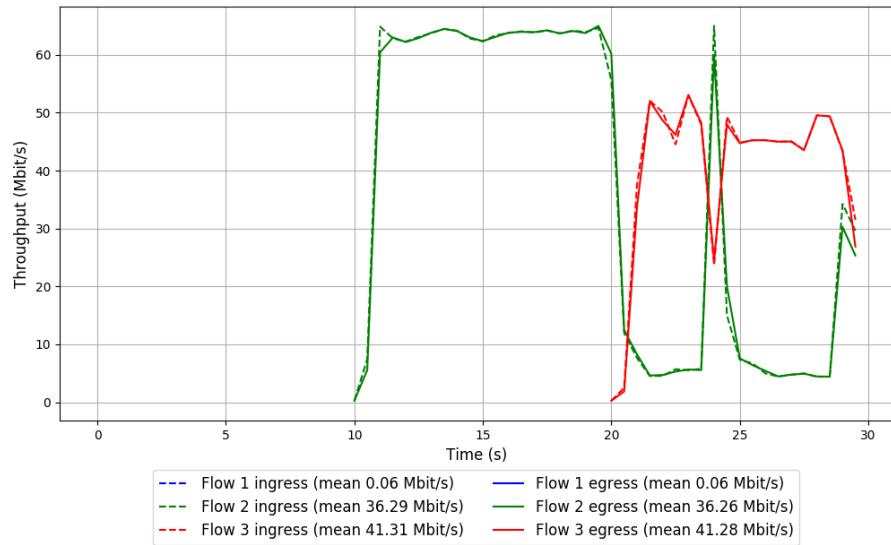
Run 2: Statistics of QUIC Cubic

Start at: 2017-08-21 05:44:40

End at: 2017-08-21 05:45:10

```
# Below is generated by plot.py at 2017-08-21 10:28:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 37.42 Mbit/s
95th percentile per-packet one-way delay: 50.279 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 48.979 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 36.26 Mbit/s
95th percentile per-packet one-way delay: 50.294 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 41.28 Mbit/s
95th percentile per-packet one-way delay: 49.574 ms
Loss rate: 1.12%
```

Run 2: Report of QUIC Cubic — Data Link



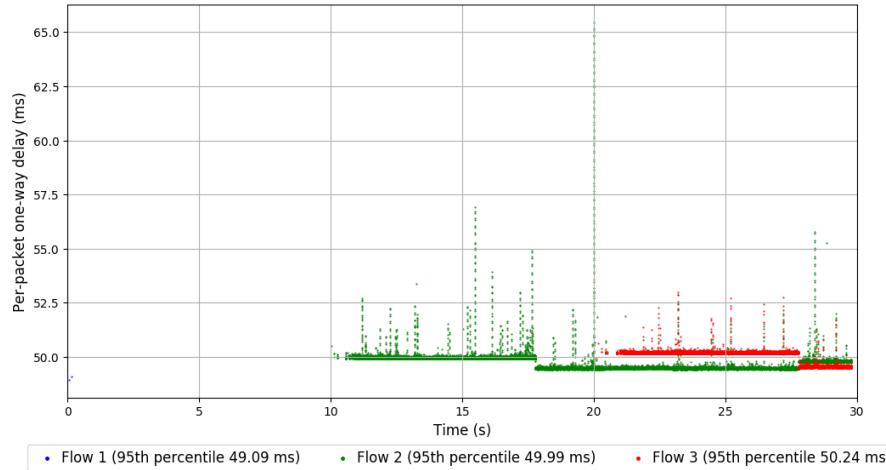
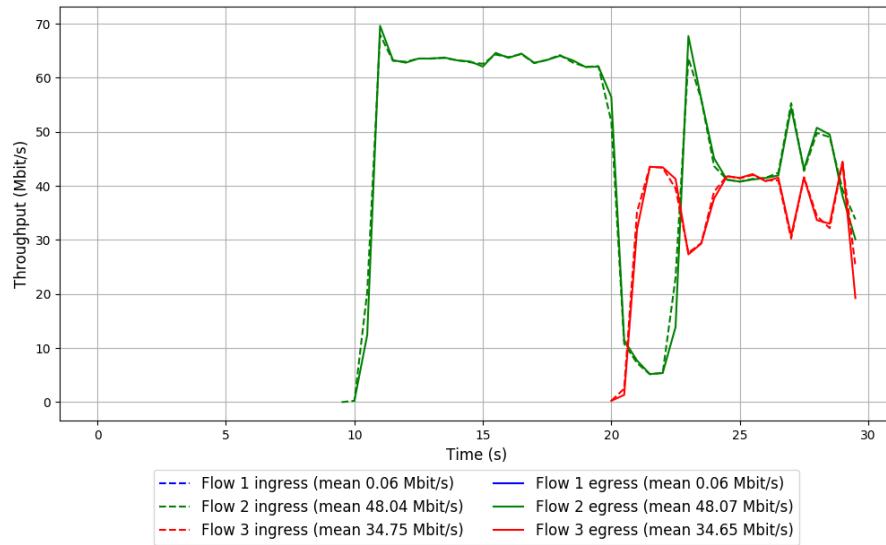
```
Run 3: Statistics of QUIC Cubic
```

```
Start at: 2017-08-21 05:56:28
```

```
End at: 2017-08-21 05:56:58
```

```
# Below is generated by plot.py at 2017-08-21 10:29:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 43.13 Mbit/s
95th percentile per-packet one-way delay: 50.209 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 49.094 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 48.07 Mbit/s
95th percentile per-packet one-way delay: 49.989 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 34.65 Mbit/s
95th percentile per-packet one-way delay: 50.237 ms
Loss rate: 1.33%
```

Run 3: Report of QUIC Cubic — Data Link



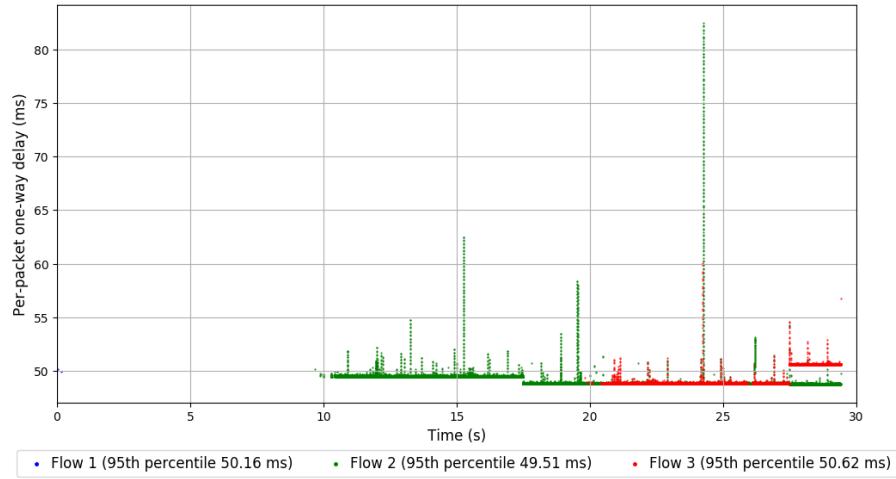
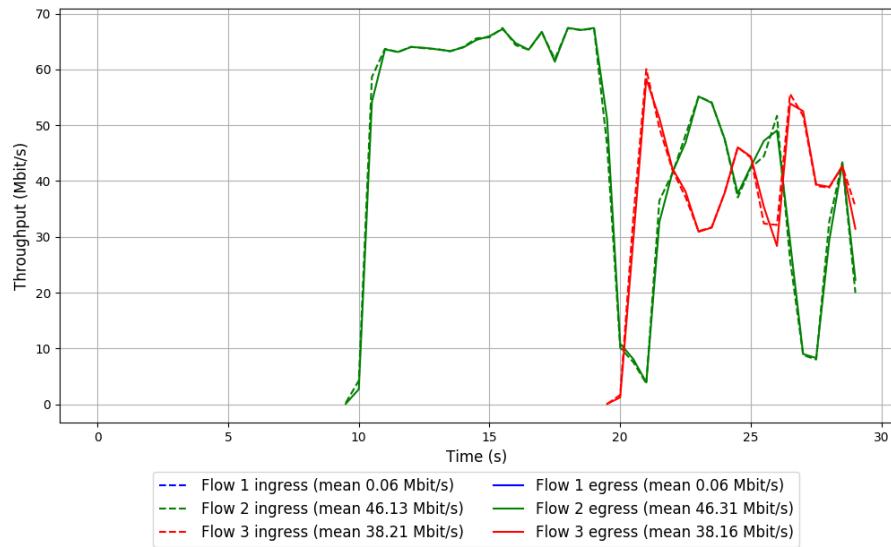
Run 4: Statistics of QUIC Cubic

Start at: 2017-08-21 06:08:08

End at: 2017-08-21 06:08:38

```
# Below is generated by plot.py at 2017-08-21 10:29:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 43.64 Mbit/s
95th percentile per-packet one-way delay: 50.593 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 50.160 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 46.31 Mbit/s
95th percentile per-packet one-way delay: 49.513 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 38.16 Mbit/s
95th percentile per-packet one-way delay: 50.619 ms
Loss rate: 1.12%
```

Run 4: Report of QUIC Cubic — Data Link



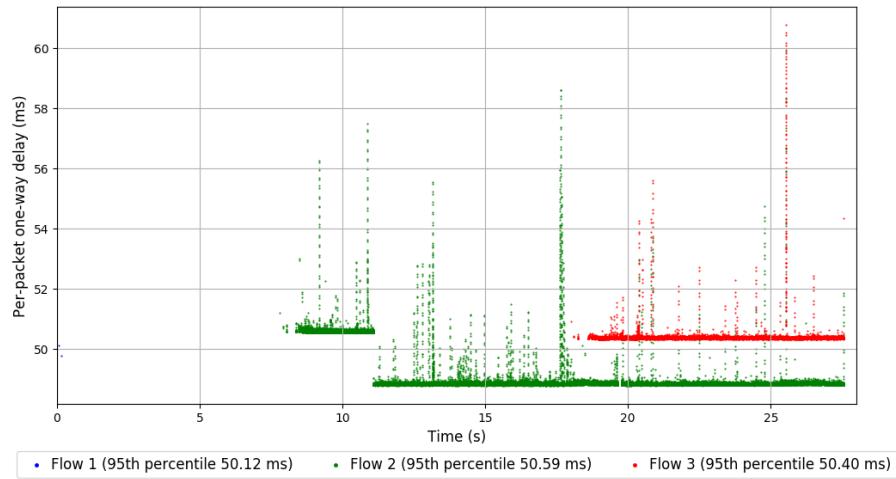
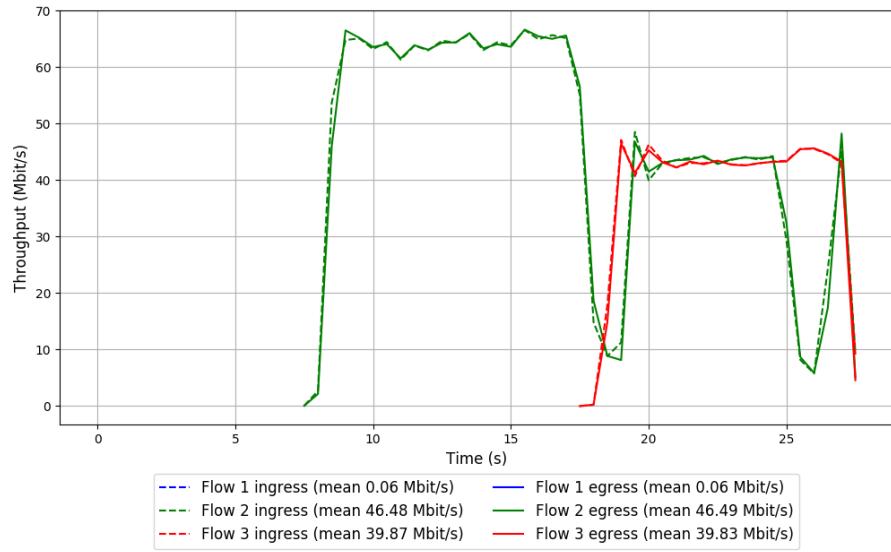
Run 5: Statistics of QUIC Cubic

Start at: 2017-08-21 06:20:13

End at: 2017-08-21 06:20:43

```
# Below is generated by plot.py at 2017-08-21 10:29:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 47.22 Mbit/s
95th percentile per-packet one-way delay: 50.583 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 50.122 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 46.49 Mbit/s
95th percentile per-packet one-way delay: 50.591 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 39.83 Mbit/s
95th percentile per-packet one-way delay: 50.398 ms
Loss rate: 1.13%
```

Run 5: Report of QUIC Cubic — Data Link



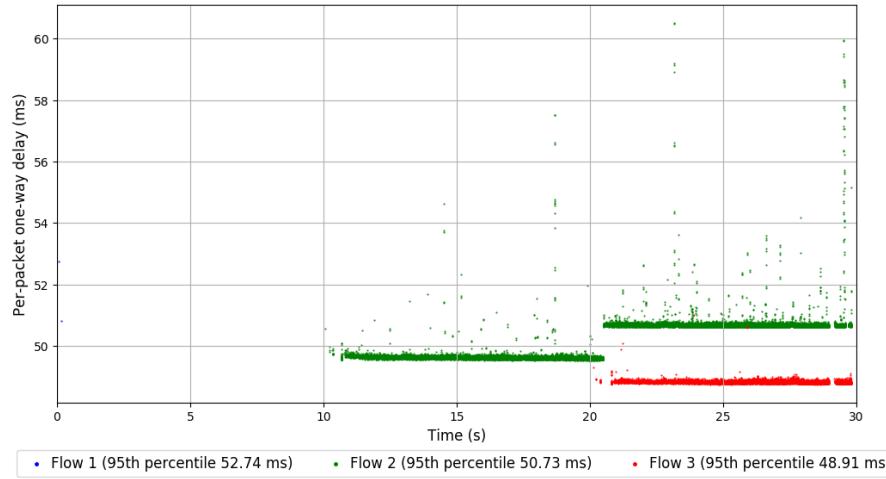
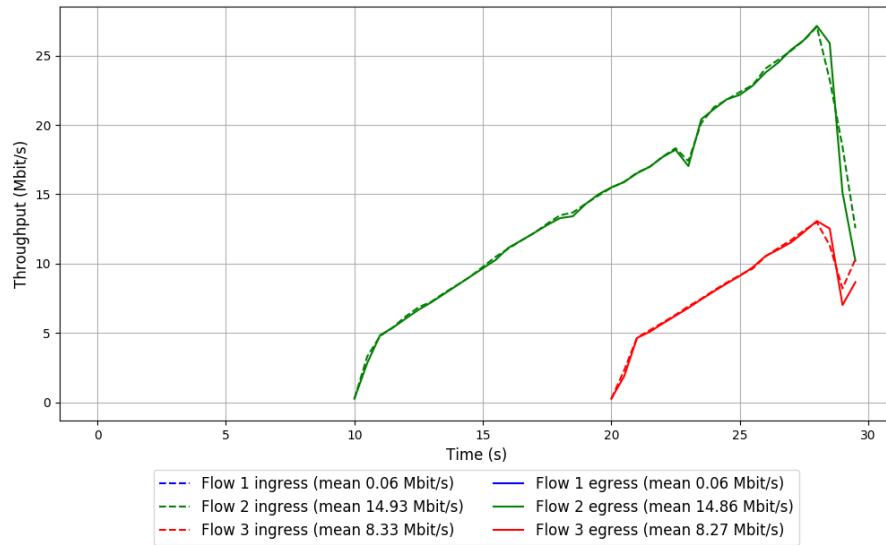
Run 6: Statistics of QUIC Cubic

Start at: 2017-08-21 06:32:35

End at: 2017-08-21 06:33:05

```
# Below is generated by plot.py at 2017-08-21 10:29:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.55 Mbit/s
95th percentile per-packet one-way delay: 50.720 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 52.745 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 14.86 Mbit/s
95th percentile per-packet one-way delay: 50.729 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 8.27 Mbit/s
95th percentile per-packet one-way delay: 48.905 ms
Loss rate: 1.75%
```

Run 6: Report of QUIC Cubic — Data Link

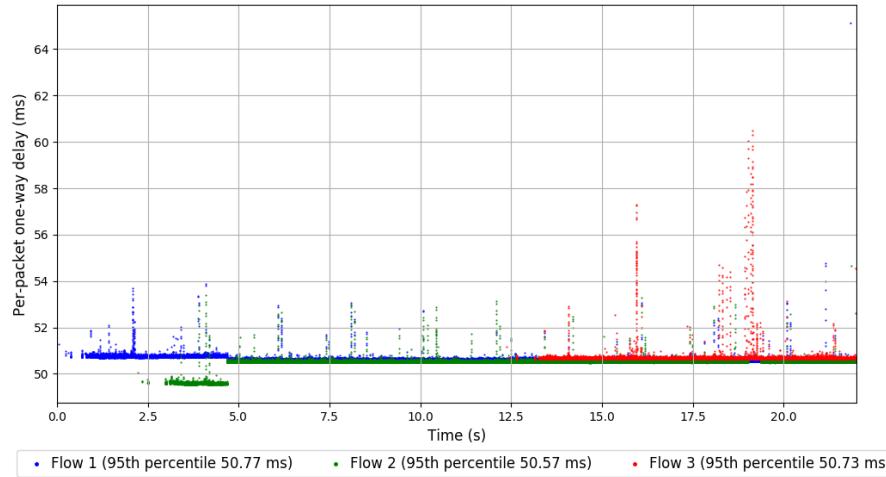
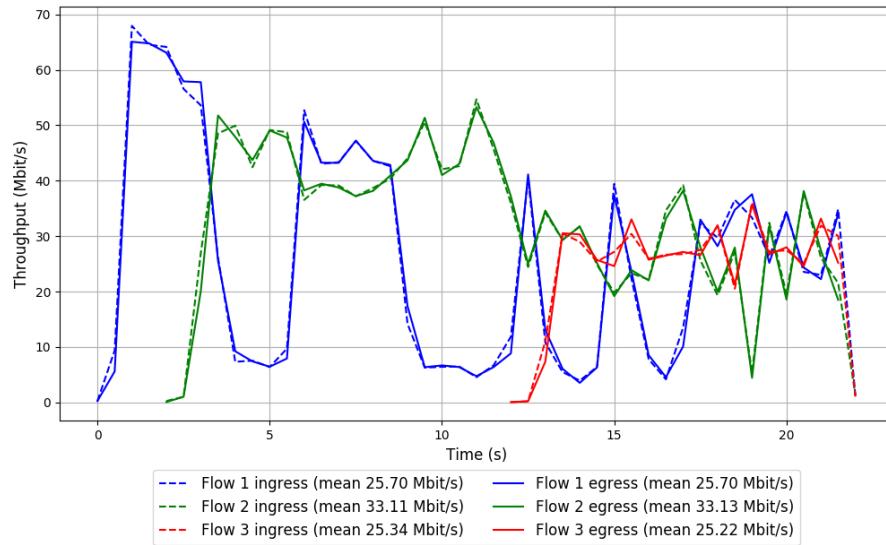


Run 7: Statistics of QUIC Cubic

Start at: 2017-08-21 06:44:33

End at: 2017-08-21 06:45:03

Run 7: Report of QUIC Cubic — Data Link



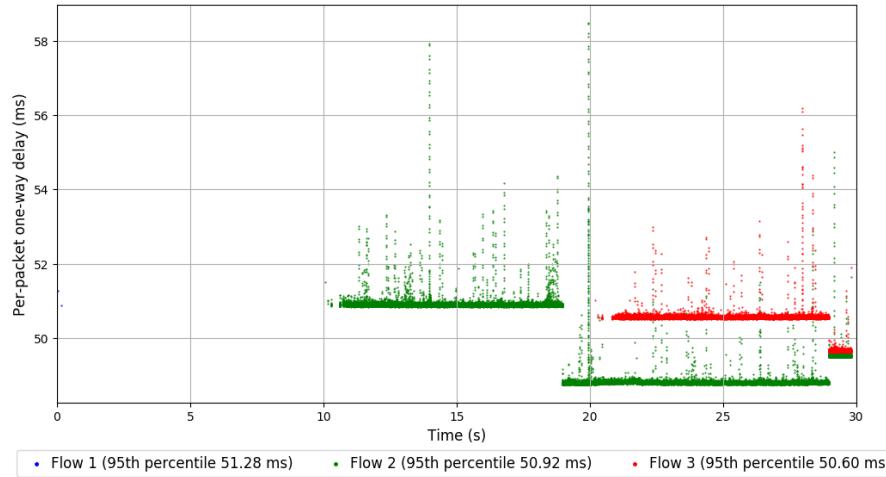
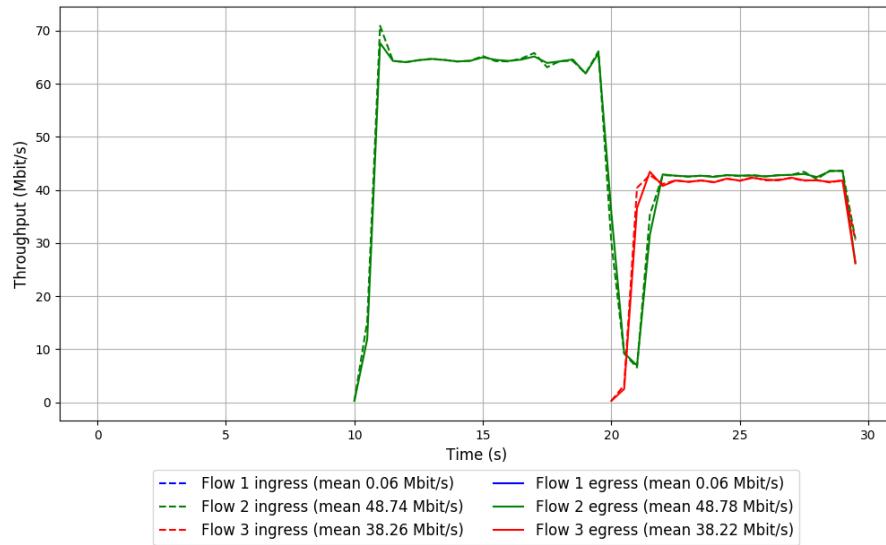
Run 8: Statistics of QUIC Cubic

Start at: 2017-08-21 06:56:17

End at: 2017-08-21 06:56:47

```
# Below is generated by plot.py at 2017-08-21 10:29:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 44.71 Mbit/s
95th percentile per-packet one-way delay: 50.910 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 51.280 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 48.78 Mbit/s
95th percentile per-packet one-way delay: 50.917 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 38.22 Mbit/s
95th percentile per-packet one-way delay: 50.600 ms
Loss rate: 1.14%
```

Run 8: Report of QUIC Cubic — Data Link



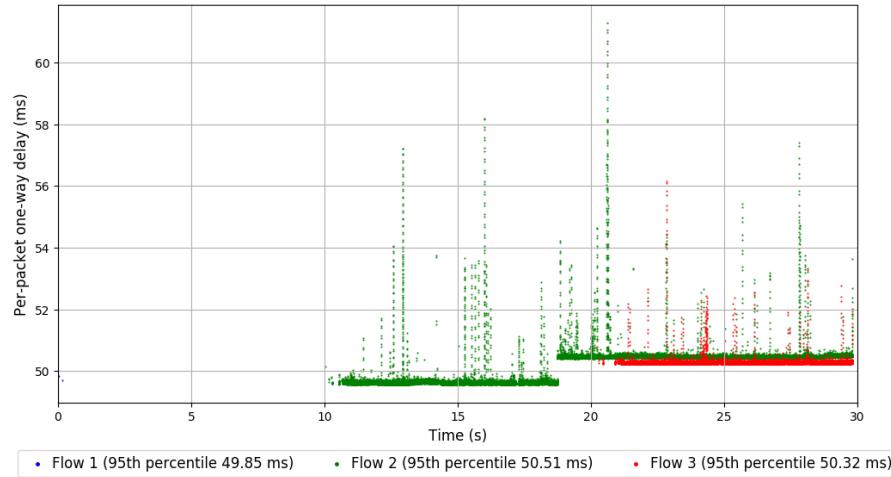
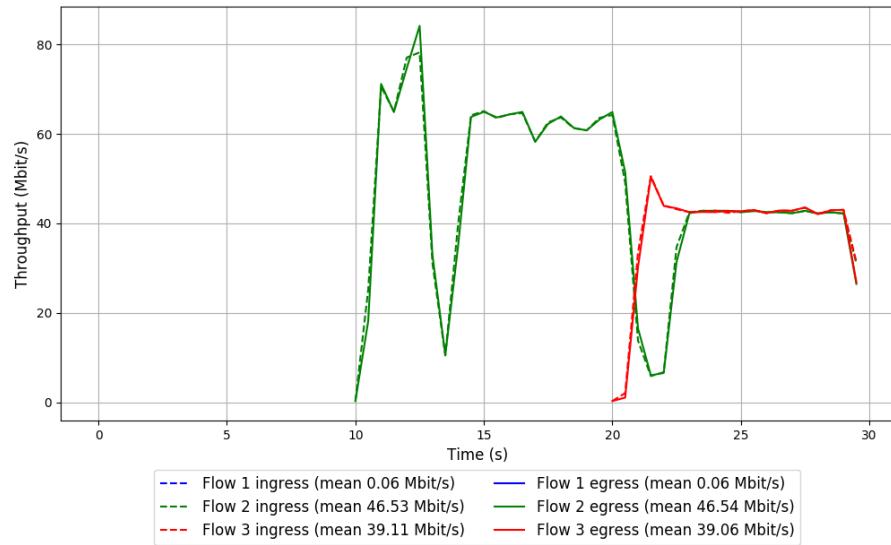
Run 9: Statistics of QUIC Cubic

Start at: 2017-08-21 07:08:17

End at: 2017-08-21 07:08:47

```
# Below is generated by plot.py at 2017-08-21 10:29:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 43.53 Mbit/s
95th percentile per-packet one-way delay: 50.497 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 49.847 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 46.54 Mbit/s
95th percentile per-packet one-way delay: 50.506 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 39.06 Mbit/s
95th percentile per-packet one-way delay: 50.324 ms
Loss rate: 1.16%
```

Run 9: Report of QUIC Cubic — Data Link



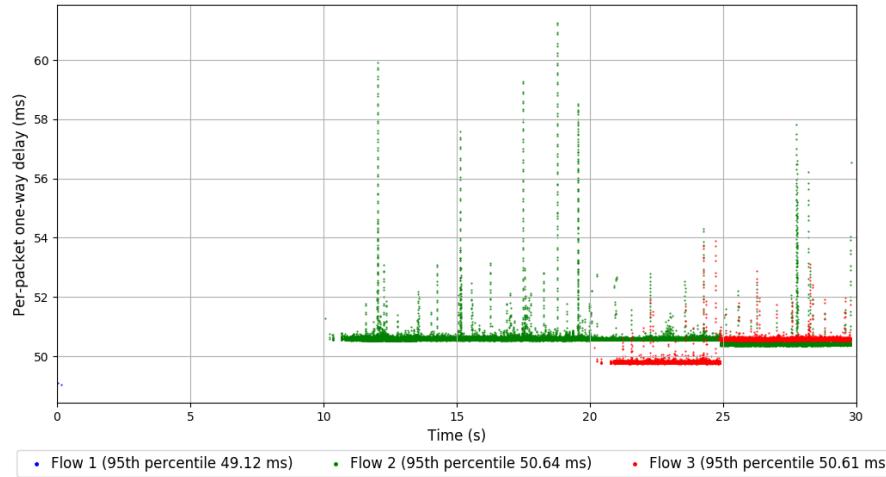
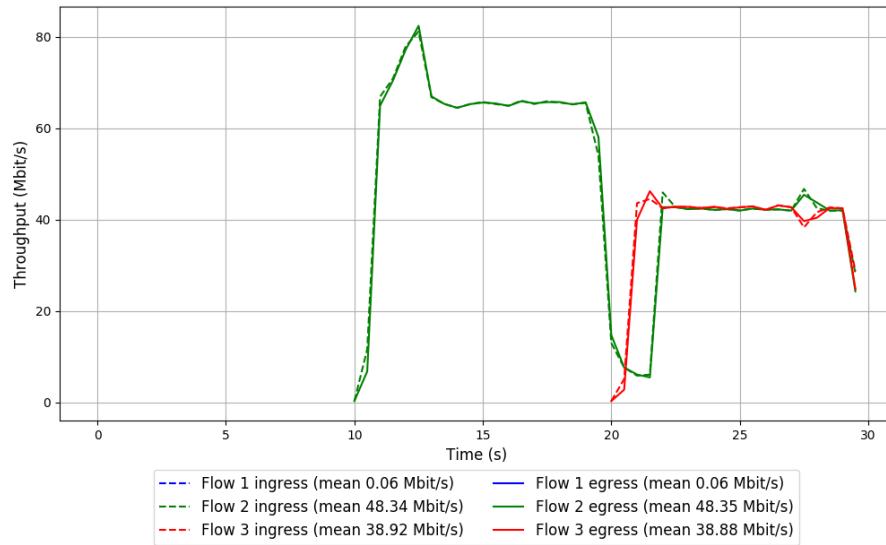
Run 10: Statistics of QUIC Cubic

Start at: 2017-08-21 07:19:51

End at: 2017-08-21 07:20:21

```
# Below is generated by plot.py at 2017-08-21 10:29:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 44.66 Mbit/s
95th percentile per-packet one-way delay: 50.633 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 49.118 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 48.35 Mbit/s
95th percentile per-packet one-way delay: 50.640 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 38.88 Mbit/s
95th percentile per-packet one-way delay: 50.610 ms
Loss rate: 1.09%
```

Run 10: Report of QUIC Cubic — Data Link

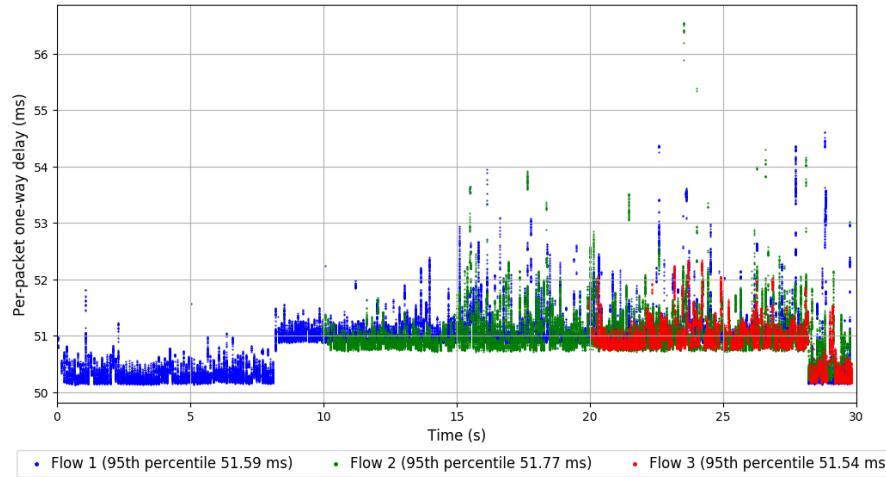
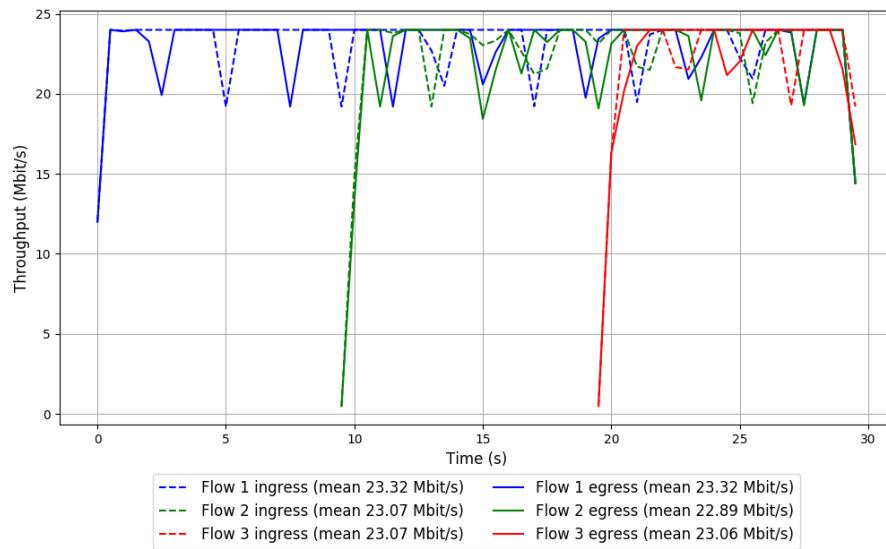


```
Run 1: Statistics of Saturator

Start at: 2017-08-21 05:33:58
End at: 2017-08-21 05:34:28

# Below is generated by plot.py at 2017-08-21 10:29:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 46.10 Mbit/s
95th percentile per-packet one-way delay: 51.673 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 23.32 Mbit/s
95th percentile per-packet one-way delay: 51.590 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 22.89 Mbit/s
95th percentile per-packet one-way delay: 51.767 ms
Loss rate: 1.28%
-- Flow 3:
Average throughput: 23.06 Mbit/s
95th percentile per-packet one-way delay: 51.544 ms
Loss rate: 1.05%
```

Run 1: Report of Saturator — Data Link



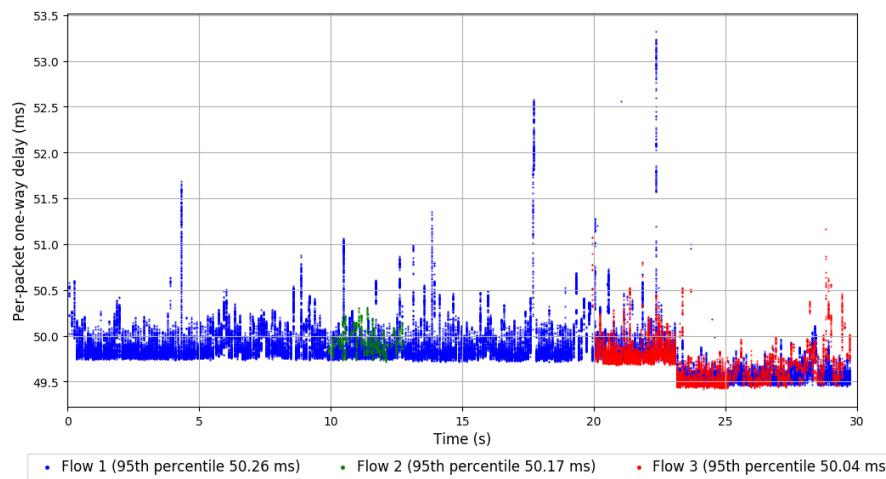
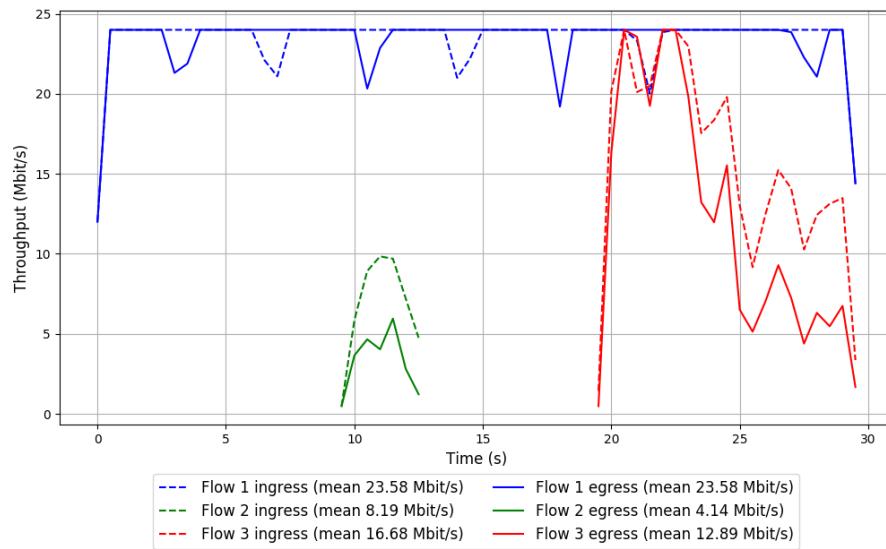
Run 2: Statistics of Saturator

Start at: 2017-08-21 05:45:23

End at: 2017-08-21 05:45:53

```
# Below is generated by plot.py at 2017-08-21 10:29:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 28.21 Mbit/s
95th percentile per-packet one-way delay: 50.223 ms
Loss rate: 5.97%
-- Flow 1:
Average throughput: 23.58 Mbit/s
95th percentile per-packet one-way delay: 50.259 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 4.14 Mbit/s
95th percentile per-packet one-way delay: 50.175 ms
Loss rate: 51.23%
-- Flow 3:
Average throughput: 12.89 Mbit/s
95th percentile per-packet one-way delay: 50.041 ms
Loss rate: 23.55%
```

Run 2: Report of Saturator — Data Link



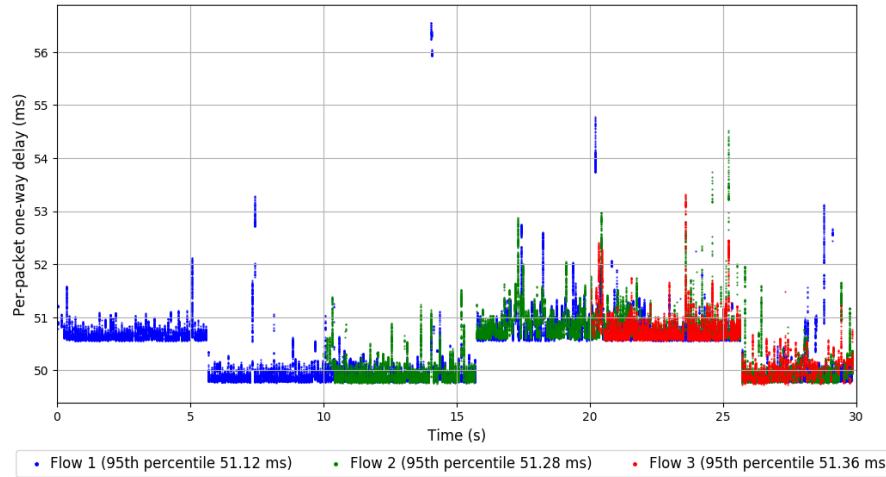
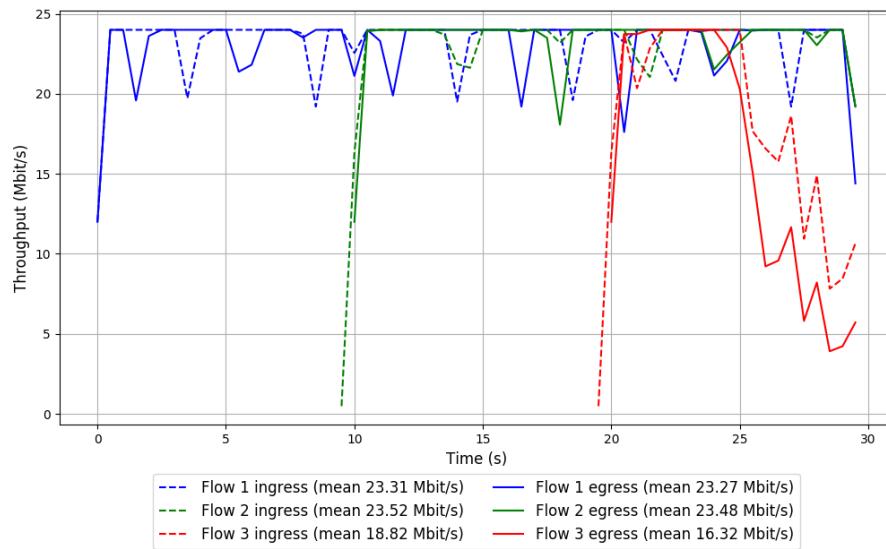
Run 3: Statistics of Saturator

Start at: 2017-08-21 05:57:10

End at: 2017-08-21 05:57:40

```
# Below is generated by plot.py at 2017-08-21 10:29:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 44.23 Mbit/s
95th percentile per-packet one-way delay: 51.207 ms
Loss rate: 2.47%
-- Flow 1:
Average throughput: 23.27 Mbit/s
95th percentile per-packet one-way delay: 51.122 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 23.48 Mbit/s
95th percentile per-packet one-way delay: 51.280 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 16.32 Mbit/s
95th percentile per-packet one-way delay: 51.361 ms
Loss rate: 14.22%
```

Run 3: Report of Saturator — Data Link



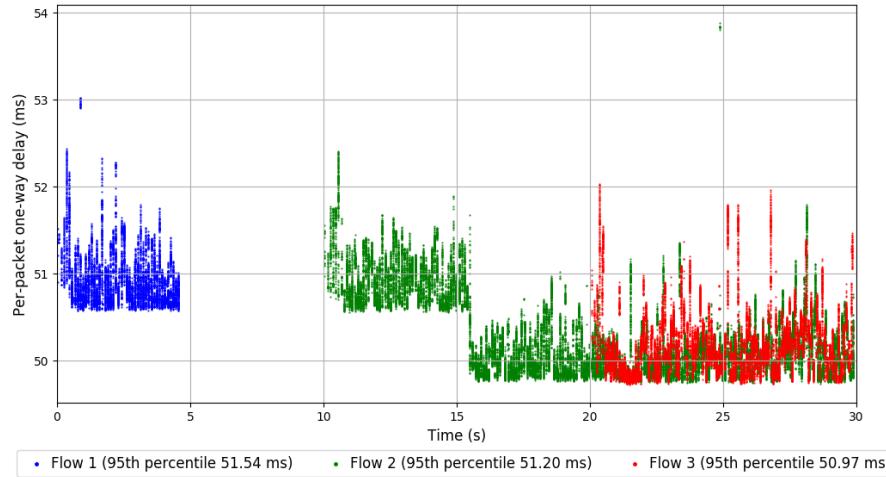
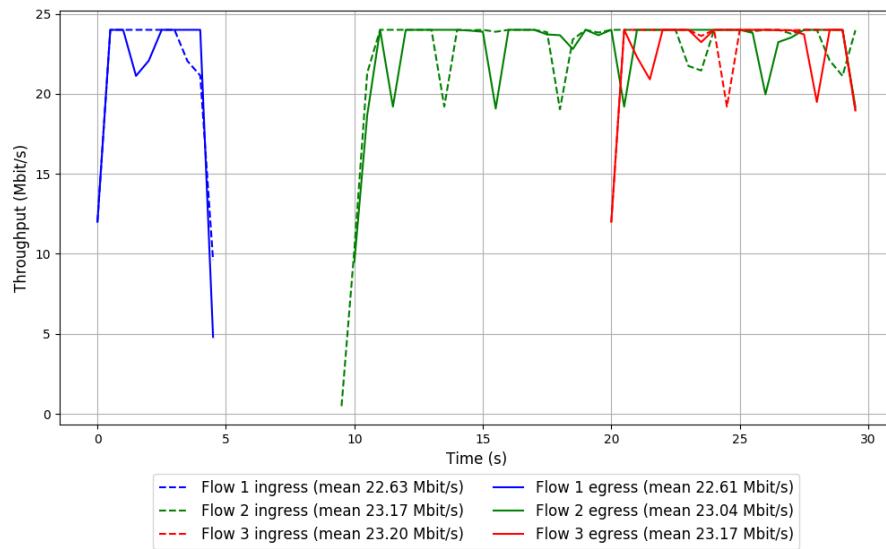
Run 4: Statistics of Saturator

Start at: 2017-08-21 06:08:51

End at: 2017-08-21 06:09:21

```
# Below is generated by plot.py at 2017-08-21 10:29:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 26.32 Mbit/s
95th percentile per-packet one-way delay: 51.257 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 22.61 Mbit/s
95th percentile per-packet one-way delay: 51.543 ms
Loss rate: 2.30%
-- Flow 2:
Average throughput: 23.04 Mbit/s
95th percentile per-packet one-way delay: 51.200 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 23.17 Mbit/s
95th percentile per-packet one-way delay: 50.973 ms
Loss rate: 1.14%
```

Run 4: Report of Saturator — Data Link



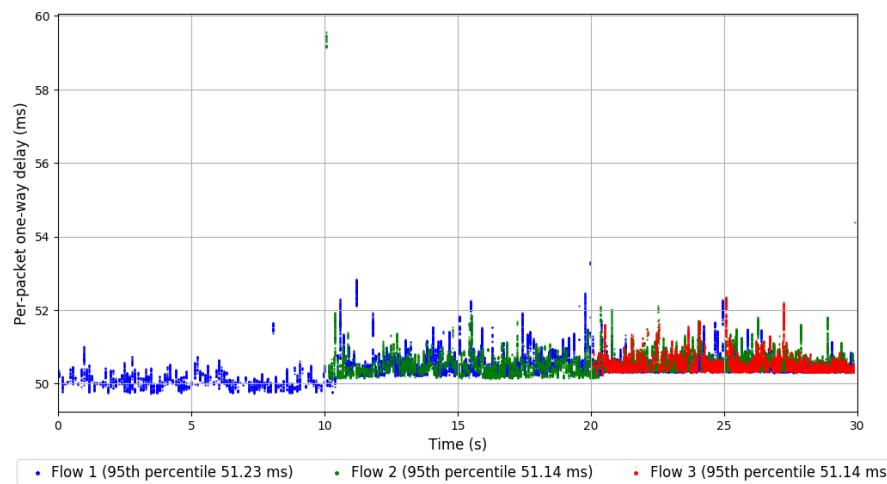
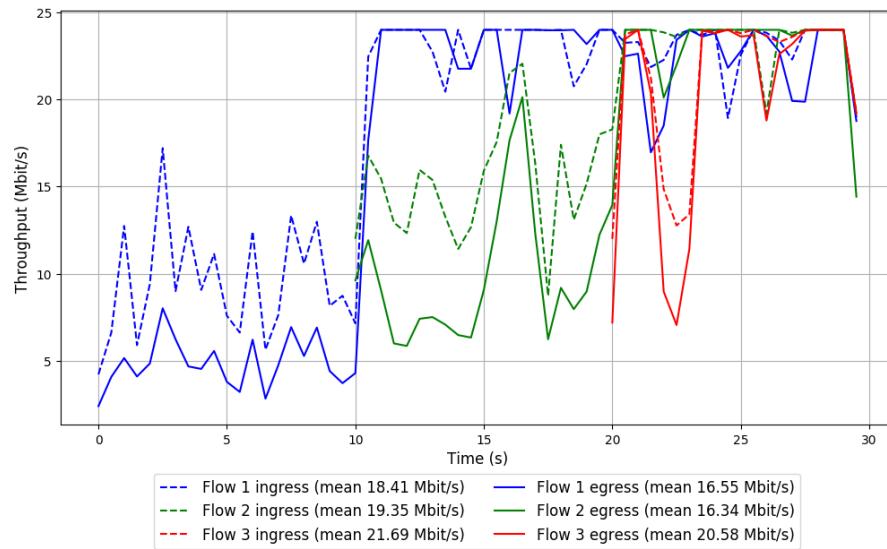
Run 5: Statistics of Saturator

Start at: 2017-08-21 06:20:56

End at: 2017-08-21 06:21:26

```
# Below is generated by plot.py at 2017-08-21 10:29:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 34.11 Mbit/s
95th percentile per-packet one-way delay: 51.185 ms
Loss rate: 11.34%
-- Flow 1:
Average throughput: 16.55 Mbit/s
95th percentile per-packet one-way delay: 51.229 ms
Loss rate: 10.41%
-- Flow 2:
Average throughput: 16.34 Mbit/s
95th percentile per-packet one-way delay: 51.136 ms
Loss rate: 15.60%
-- Flow 3:
Average throughput: 20.58 Mbit/s
95th percentile per-packet one-way delay: 51.142 ms
Loss rate: 6.11%
```

Run 5: Report of Saturator — Data Link



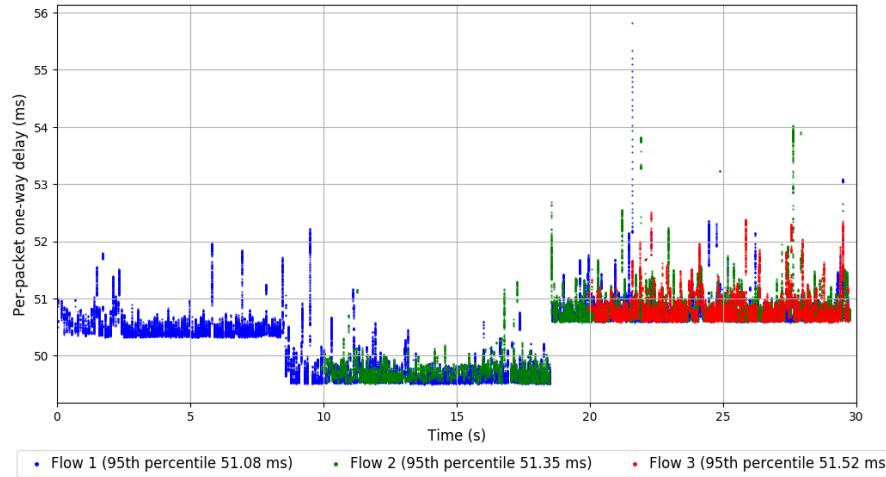
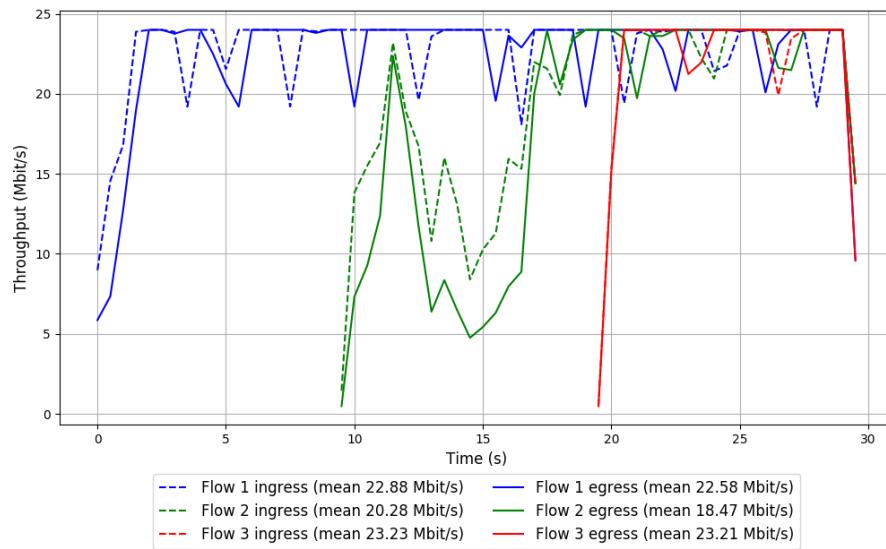
Run 6: Statistics of Saturator

Start at: 2017-08-21 06:33:17

End at: 2017-08-21 06:33:47

```
# Below is generated by plot.py at 2017-08-21 10:29:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 42.48 Mbit/s
95th percentile per-packet one-way delay: 51.268 ms
Loss rate: 3.93%
-- Flow 1:
Average throughput: 22.58 Mbit/s
95th percentile per-packet one-way delay: 51.075 ms
Loss rate: 1.63%
-- Flow 2:
Average throughput: 18.47 Mbit/s
95th percentile per-packet one-way delay: 51.347 ms
Loss rate: 9.41%
-- Flow 3:
Average throughput: 23.21 Mbit/s
95th percentile per-packet one-way delay: 51.520 ms
Loss rate: 1.09%
```

Run 6: Report of Saturator — Data Link



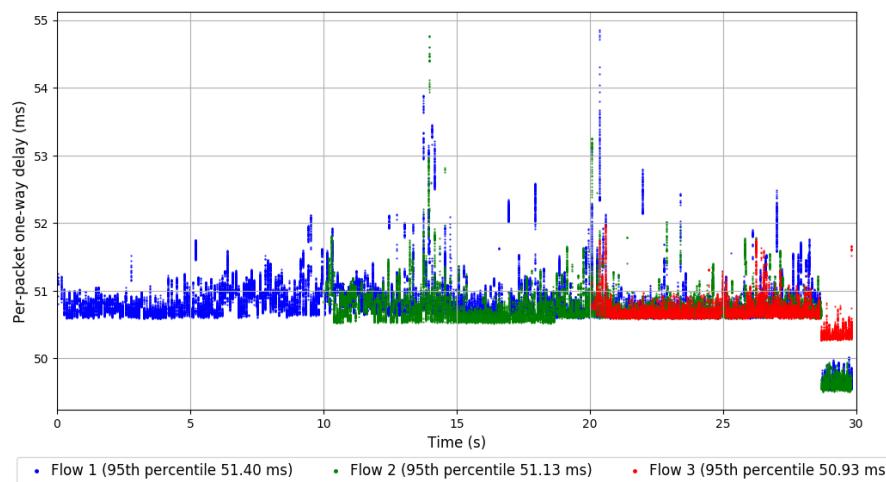
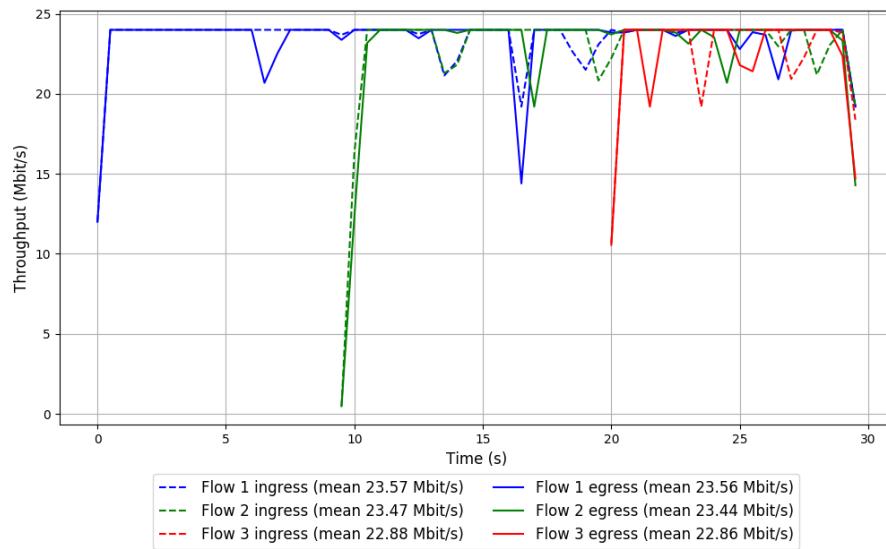
Run 7: Statistics of Saturator

Start at: 2017-08-21 06:45:17

End at: 2017-08-21 06:45:47

```
# Below is generated by plot.py at 2017-08-21 10:29:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 46.63 Mbit/s
95th percentile per-packet one-way delay: 51.251 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 23.56 Mbit/s
95th percentile per-packet one-way delay: 51.402 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 23.44 Mbit/s
95th percentile per-packet one-way delay: 51.132 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 22.86 Mbit/s
95th percentile per-packet one-way delay: 50.932 ms
Loss rate: 1.16%
```

Run 7: Report of Saturator — Data Link



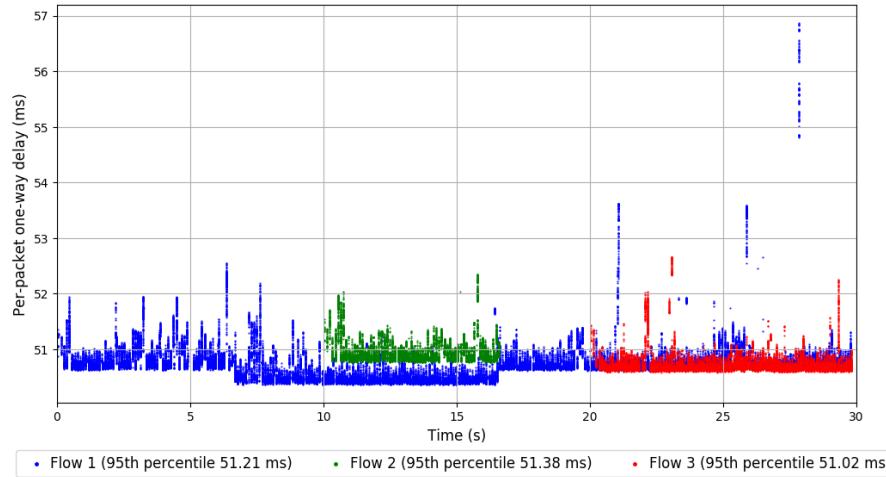
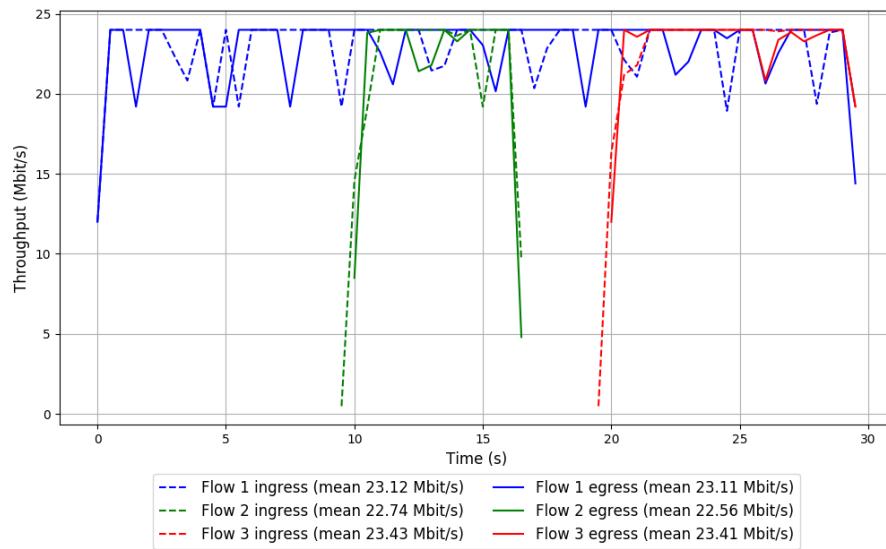
Run 8: Statistics of Saturator

Start at: 2017-08-21 06:56:59

End at: 2017-08-21 06:57:29

```
# Below is generated by plot.py at 2017-08-21 10:29:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 35.74 Mbit/s
95th percentile per-packet one-way delay: 51.224 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 23.11 Mbit/s
95th percentile per-packet one-way delay: 51.208 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 22.56 Mbit/s
95th percentile per-packet one-way delay: 51.385 ms
Loss rate: 2.32%
-- Flow 3:
Average throughput: 23.41 Mbit/s
95th percentile per-packet one-way delay: 51.022 ms
Loss rate: 1.10%
```

Run 8: Report of Saturator — Data Link



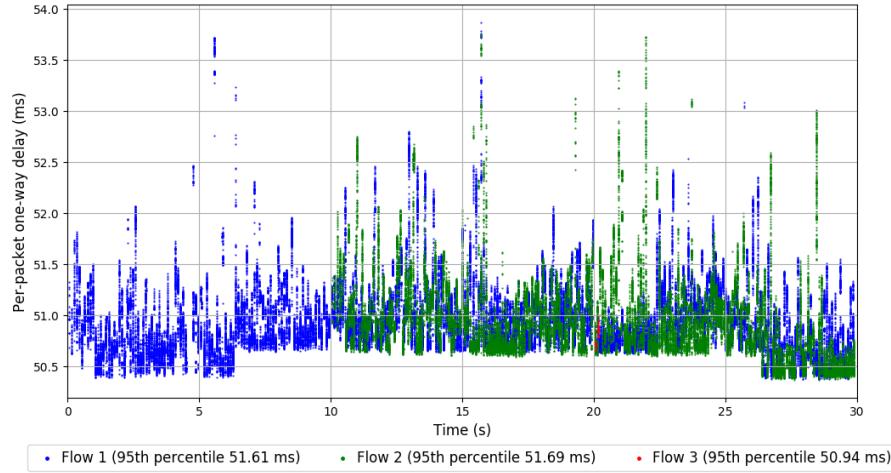
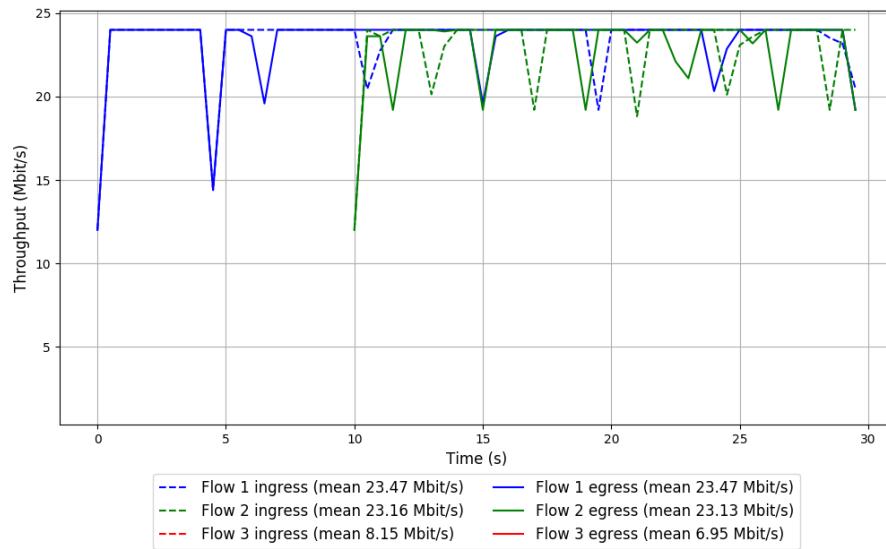
Run 9: Statistics of Saturator

Start at: 2017-08-21 07:09:00

End at: 2017-08-21 07:09:30

```
# Below is generated by plot.py at 2017-08-21 10:30:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 38.85 Mbit/s
95th percentile per-packet one-way delay: 51.635 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 23.47 Mbit/s
95th percentile per-packet one-way delay: 51.612 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 23.13 Mbit/s
95th percentile per-packet one-way delay: 51.686 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 6.95 Mbit/s
95th percentile per-packet one-way delay: 50.943 ms
Loss rate: 57.14%
```

Run 9: Report of Saturator — Data Link



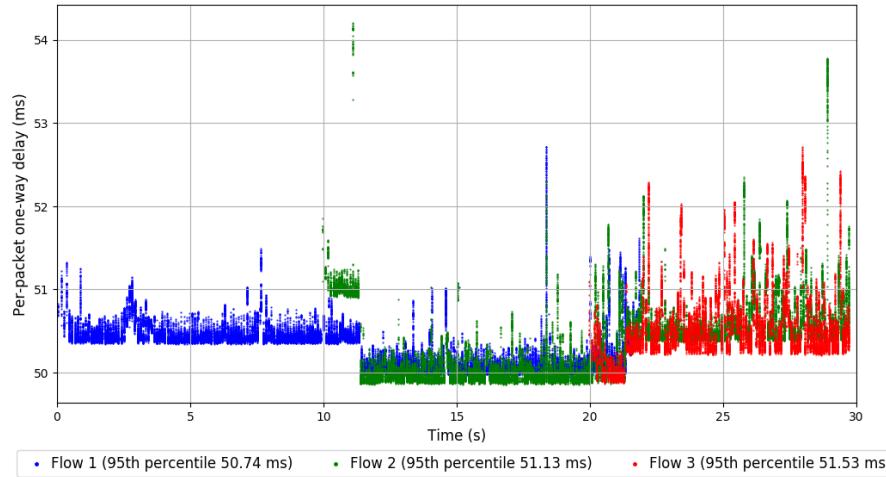
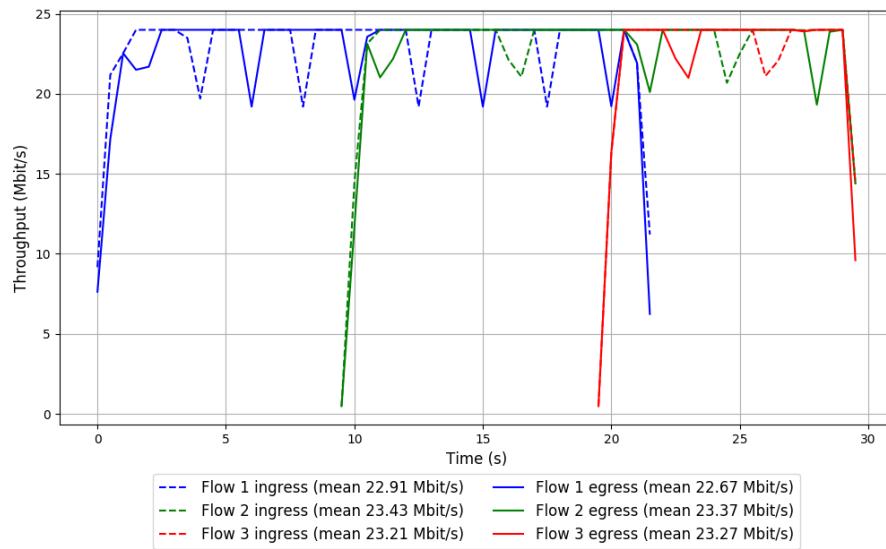
Run 10: Statistics of Saturator

Start at: 2017-08-21 07:20:35

End at: 2017-08-21 07:21:05

```
# Below is generated by plot.py at 2017-08-21 10:30:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 39.84 Mbit/s
95th percentile per-packet one-way delay: 51.075 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 22.67 Mbit/s
95th percentile per-packet one-way delay: 50.742 ms
Loss rate: 1.53%
-- Flow 2:
Average throughput: 23.37 Mbit/s
95th percentile per-packet one-way delay: 51.130 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 23.27 Mbit/s
95th percentile per-packet one-way delay: 51.530 ms
Loss rate: 1.06%
```

Run 10: Report of Saturator — Data Link

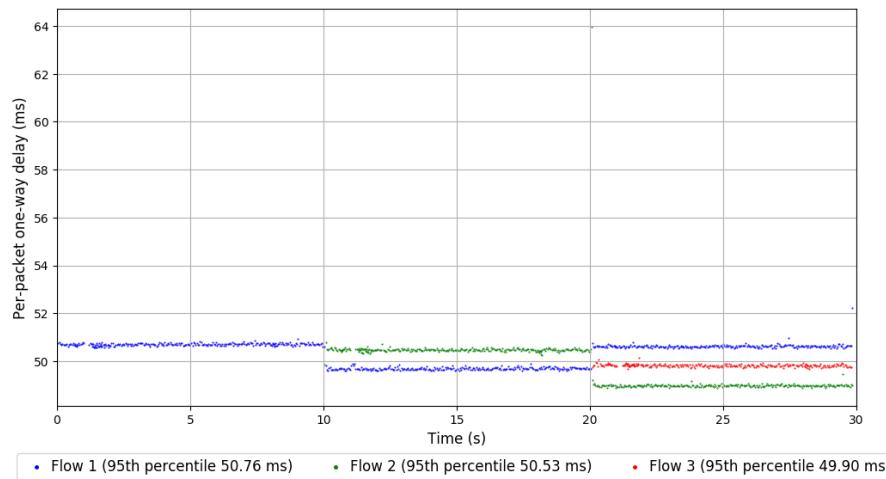
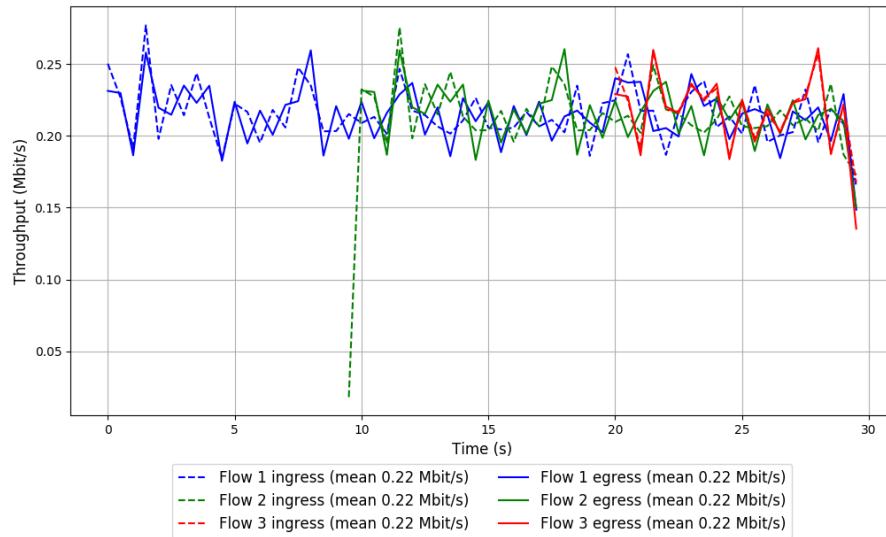


```
Run 1: Statistics of SCReAM

Start at: 2017-08-21 05:22:46
End at: 2017-08-21 05:23:16

# Below is generated by plot.py at 2017-08-21 10:30:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.735 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.757 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.533 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.902 ms
Loss rate: 1.11%
```

Run 1: Report of SCReAM — Data Link



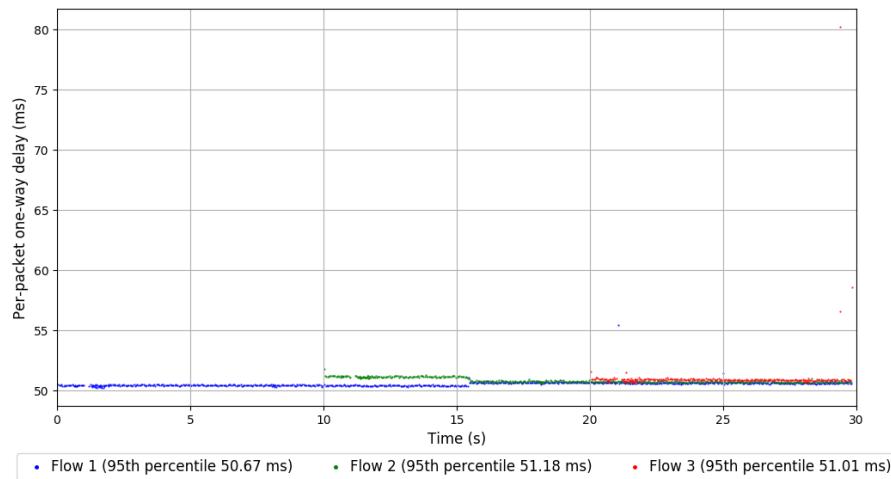
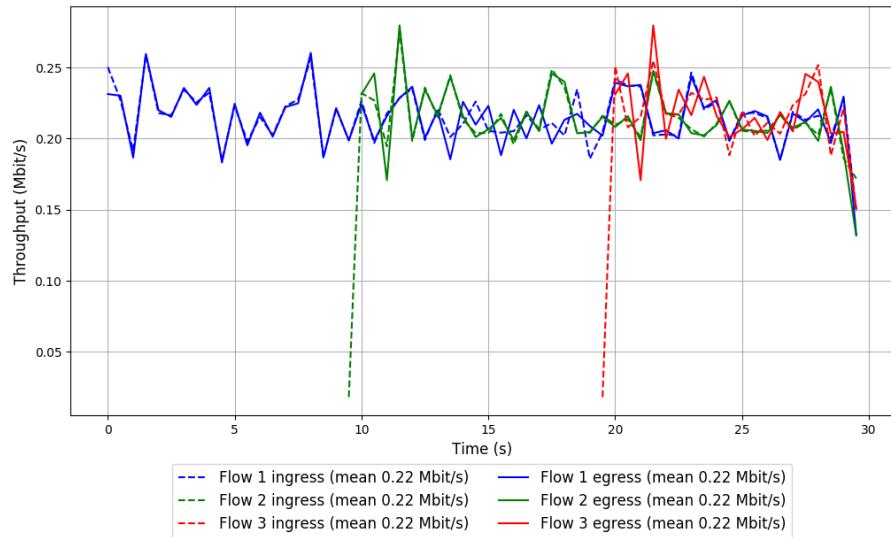
Run 2: Statistics of SCReAM

Start at: 2017-08-21 05:34:40

End at: 2017-08-21 05:35:11

```
# Below is generated by plot.py at 2017-08-21 10:30:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 51.135 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.668 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.181 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.013 ms
Loss rate: 0.74%
```

Run 2: Report of SCReAM — Data Link



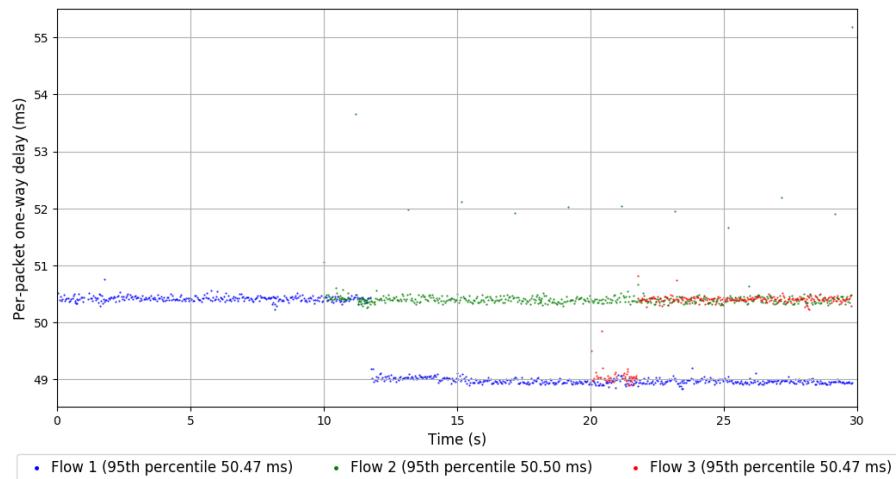
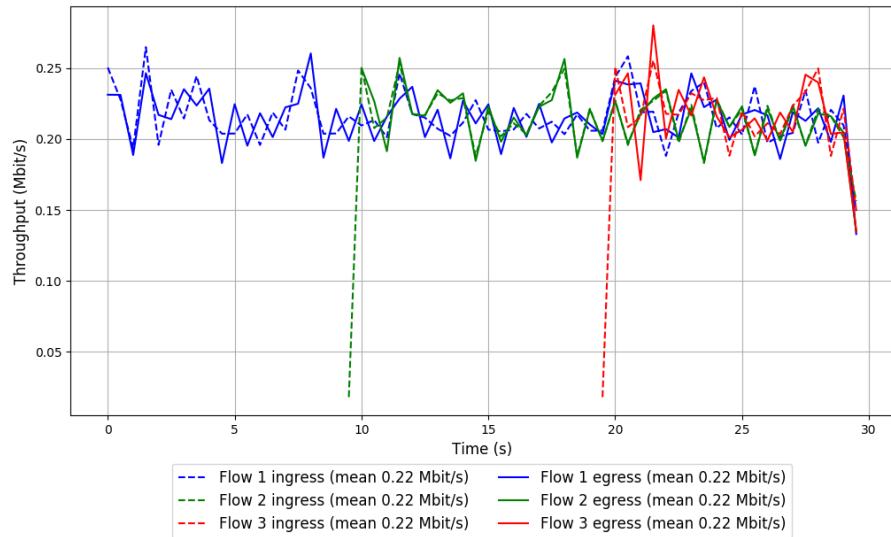
Run 3: Statistics of SCReAM

Start at: 2017-08-21 05:46:04

End at: 2017-08-21 05:46:34

```
# Below is generated by plot.py at 2017-08-21 10:30:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.478 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.469 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.497 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.465 ms
Loss rate: 1.11%
```

Run 3: Report of SCReAM — Data Link



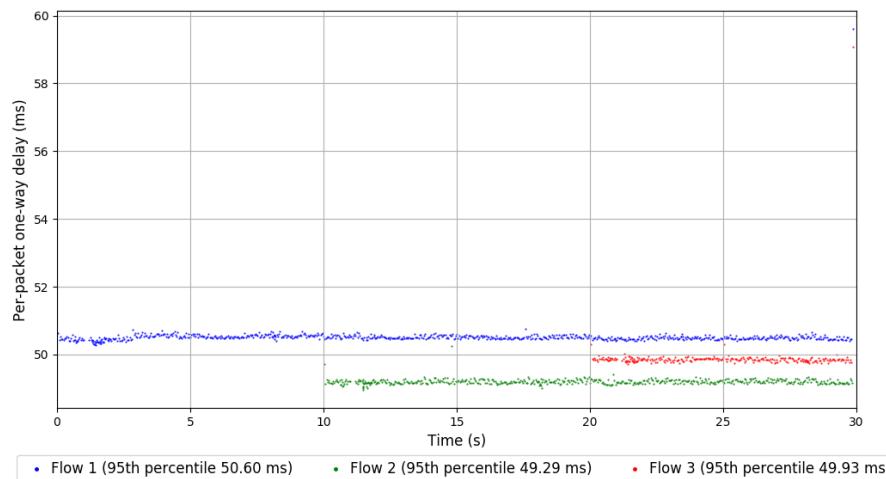
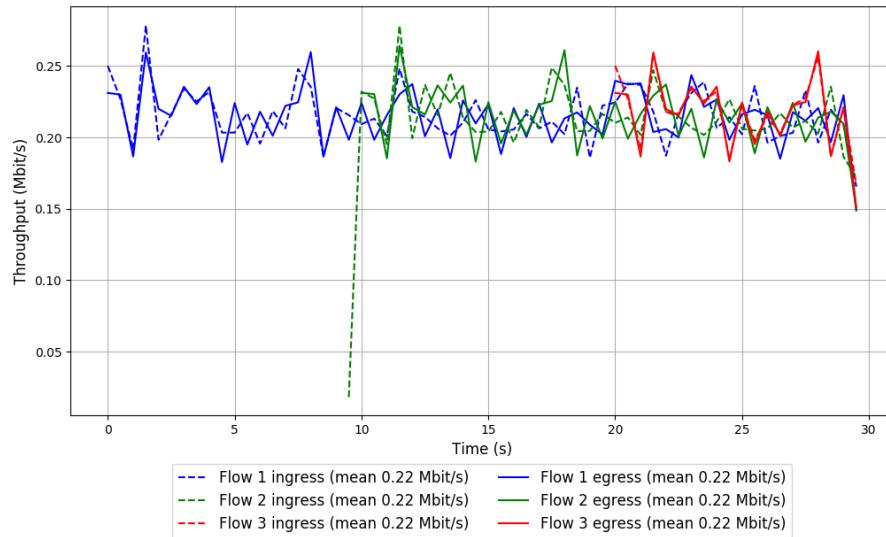
Run 4: Statistics of SCReAM

Start at: 2017-08-21 05:57:53

End at: 2017-08-21 05:58:23

```
# Below is generated by plot.py at 2017-08-21 10:30:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.578 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.599 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.287 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.926 ms
Loss rate: 0.74%
```

Run 4: Report of SCReAM — Data Link



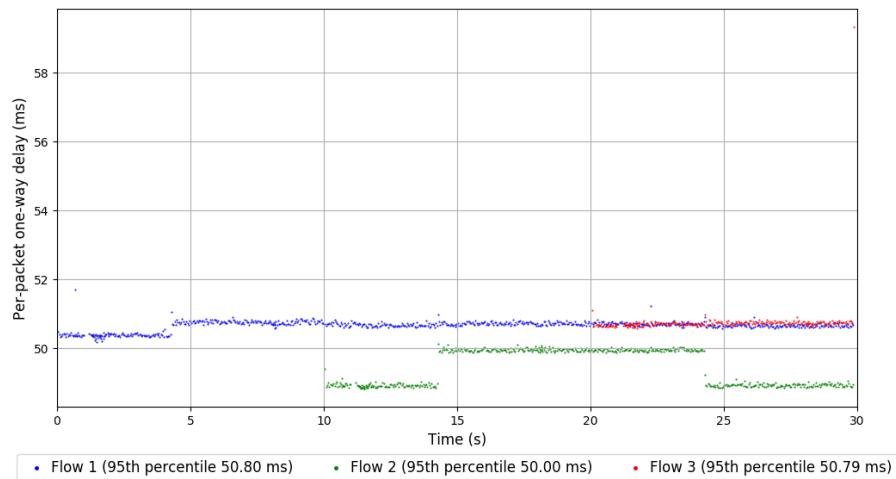
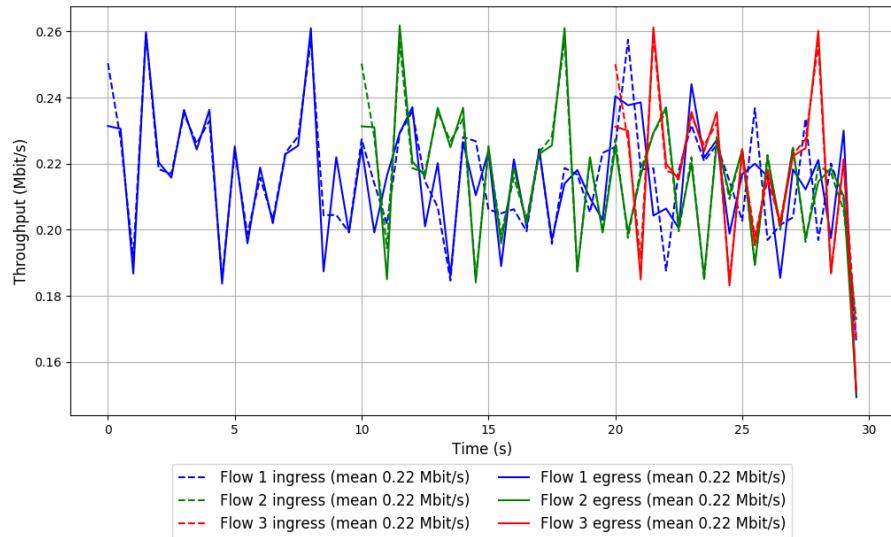
Run 5: Statistics of SCReAM

Start at: 2017-08-21 06:09:32

End at: 2017-08-21 06:10:02

```
# Below is generated by plot.py at 2017-08-21 10:30:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.784 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.797 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.000 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.793 ms
Loss rate: 0.74%
```

Run 5: Report of SCReAM — Data Link



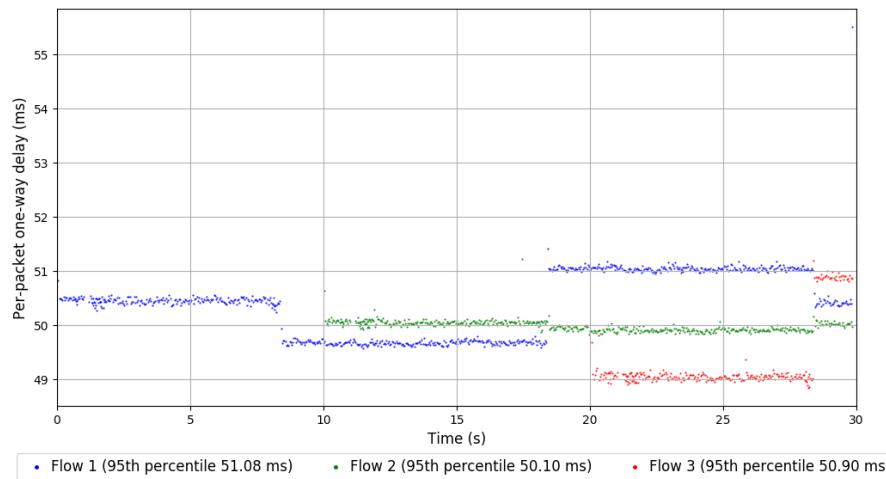
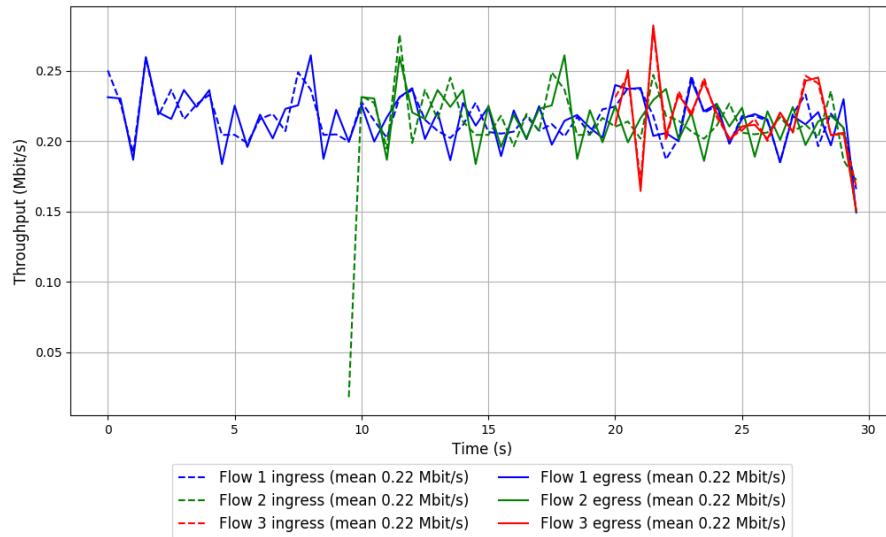
Run 6: Statistics of SCReAM

Start at: 2017-08-21 06:21:38

End at: 2017-08-21 06:22:08

```
# Below is generated by plot.py at 2017-08-21 10:30:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 51.062 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.084 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.102 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.895 ms
Loss rate: 0.75%
```

Run 6: Report of SCReAM — Data Link



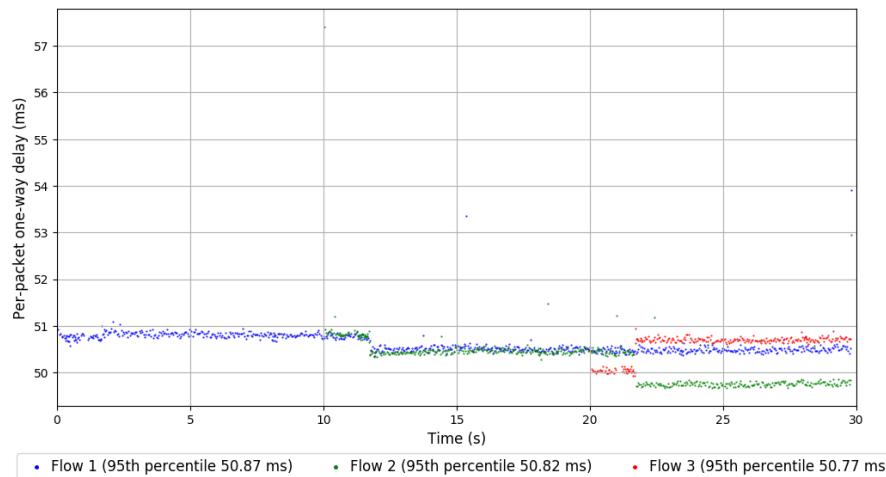
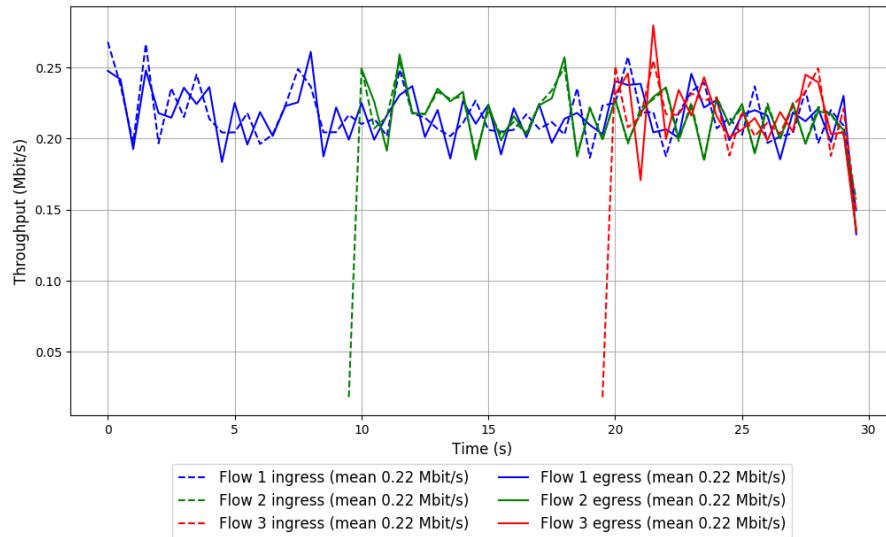
Run 7: Statistics of SCReAM

Start at: 2017-08-21 06:34:04

End at: 2017-08-21 06:34:34

```
# Below is generated by plot.py at 2017-08-21 10:30:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.853 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.866 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.819 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.775 ms
Loss rate: 1.11%
```

Run 7: Report of SCReAM — Data Link



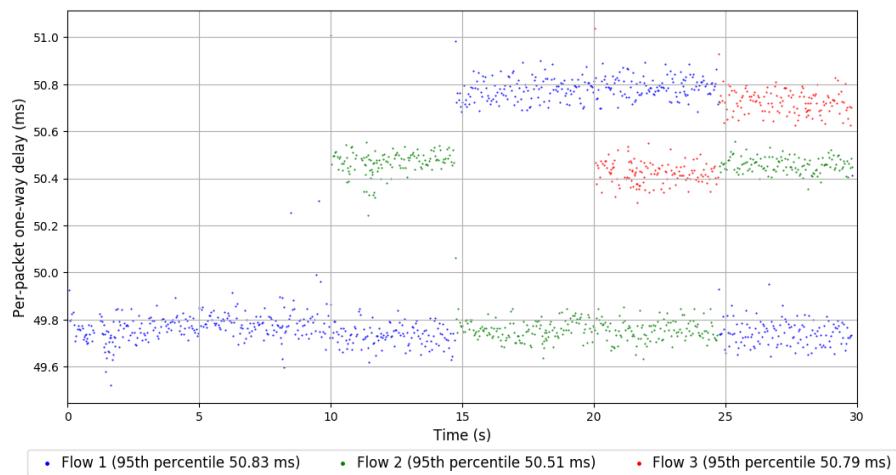
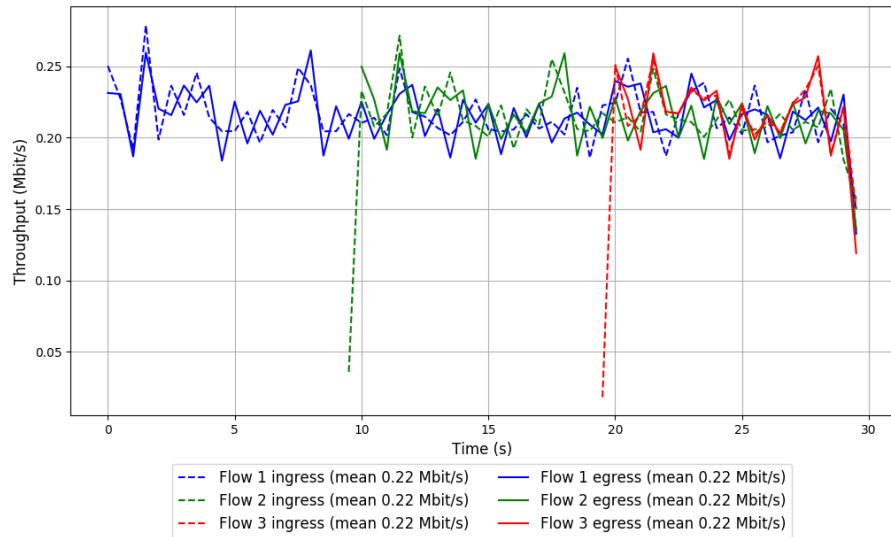
Run 8: Statistics of SCReAM

Start at: 2017-08-21 06:46:01

End at: 2017-08-21 06:46:31

```
# Below is generated by plot.py at 2017-08-21 10:30:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.810 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.831 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.511 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.790 ms
Loss rate: 1.11%
```

Run 8: Report of SCReAM — Data Link



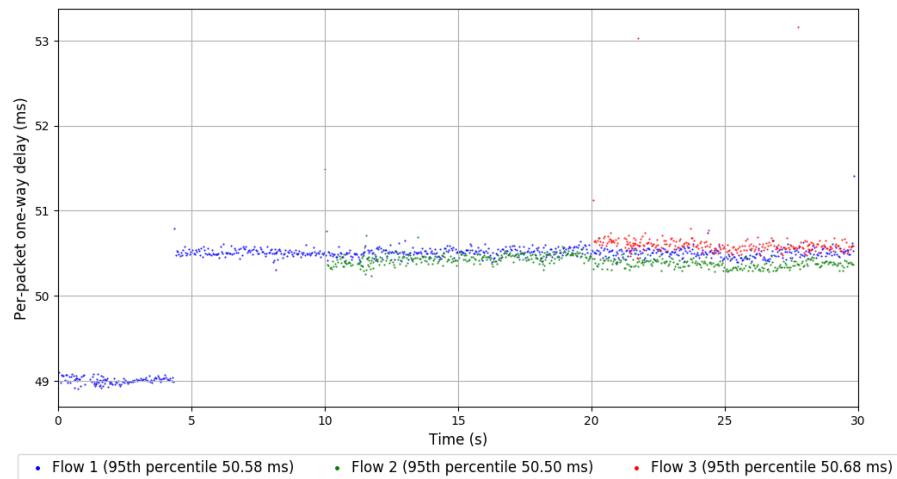
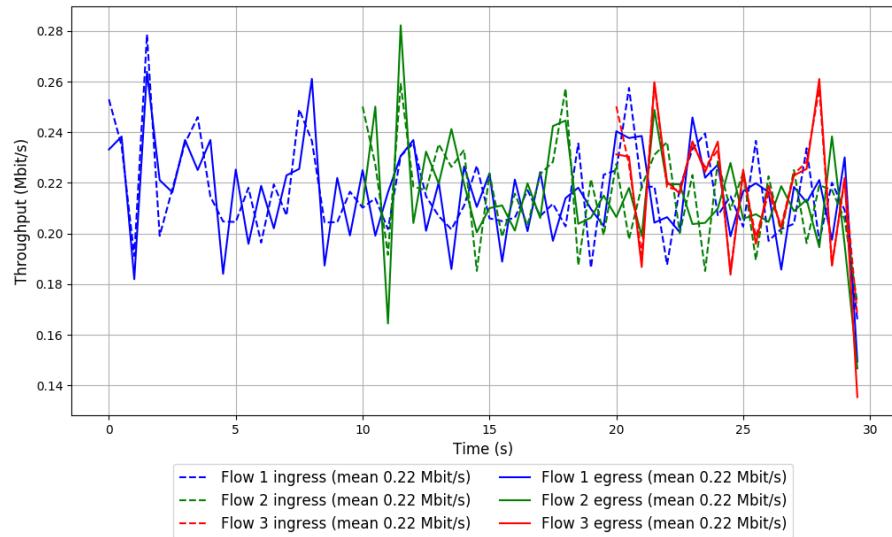
Run 9: Statistics of SCReAM

Start at: 2017-08-21 06:57:42

End at: 2017-08-21 06:58:12

```
# Below is generated by plot.py at 2017-08-21 10:30:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.631 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.578 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.502 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.684 ms
Loss rate: 1.11%
```

Run 9: Report of SCReAM — Data Link



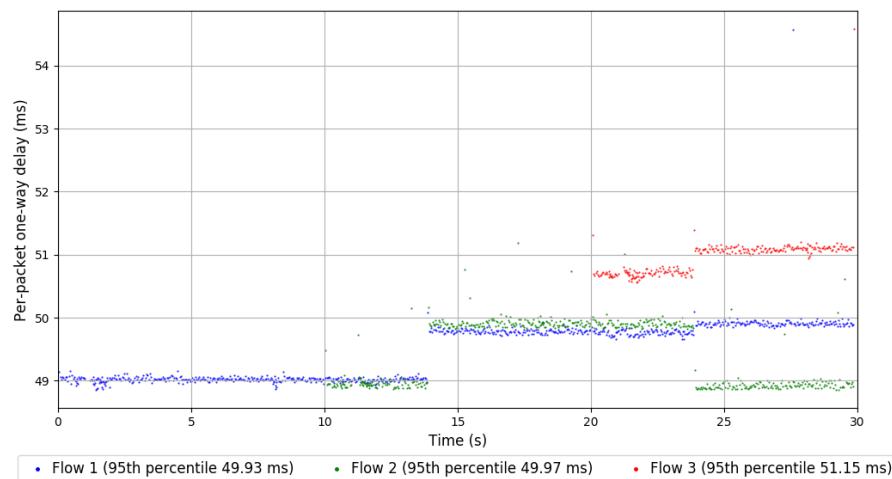
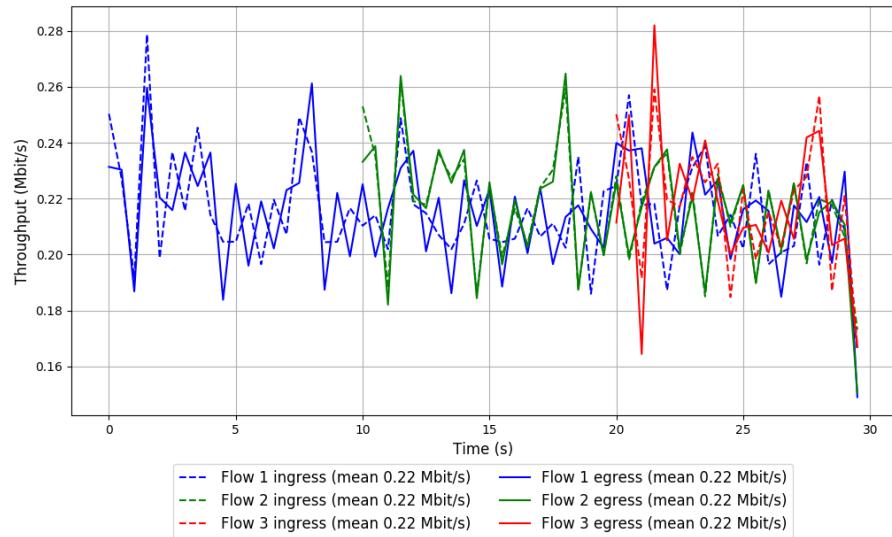
Run 10: Statistics of SCReAM

Start at: 2017-08-21 07:09:42

End at: 2017-08-21 07:10:12

```
# Below is generated by plot.py at 2017-08-21 10:30:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 51.093 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.932 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.974 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.148 ms
Loss rate: 0.74%
```

Run 10: Report of SCReAM — Data Link



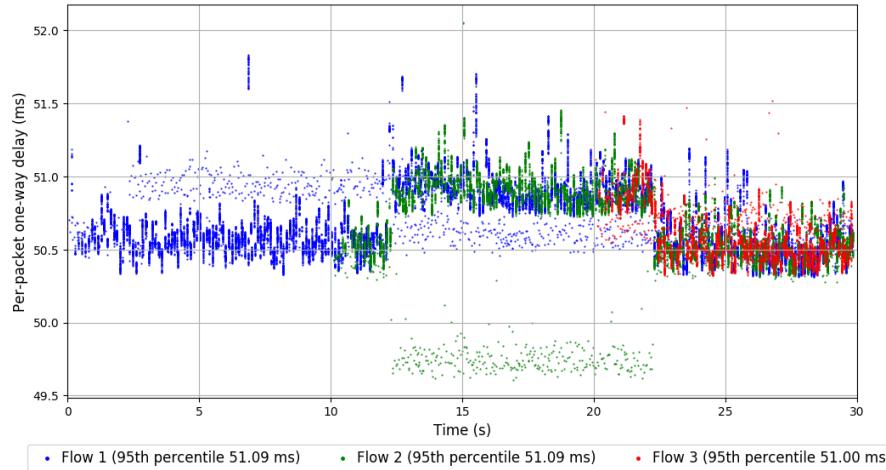
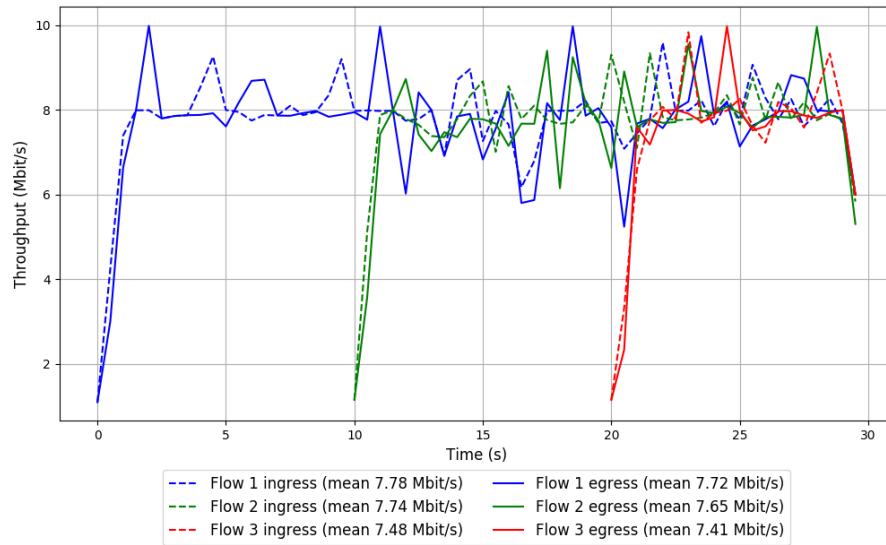
Run 1: Statistics of Sprout

Start at: 2017-08-21 05:27:14

End at: 2017-08-21 05:27:44

```
# Below is generated by plot.py at 2017-08-21 10:30:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.22 Mbit/s
95th percentile per-packet one-way delay: 51.079 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 7.72 Mbit/s
95th percentile per-packet one-way delay: 51.091 ms
Loss rate: 1.17%
-- Flow 2:
Average throughput: 7.65 Mbit/s
95th percentile per-packet one-way delay: 51.087 ms
Loss rate: 1.53%
-- Flow 3:
Average throughput: 7.41 Mbit/s
95th percentile per-packet one-way delay: 50.996 ms
Loss rate: 1.67%
```

Run 1: Report of Sprout — Data Link



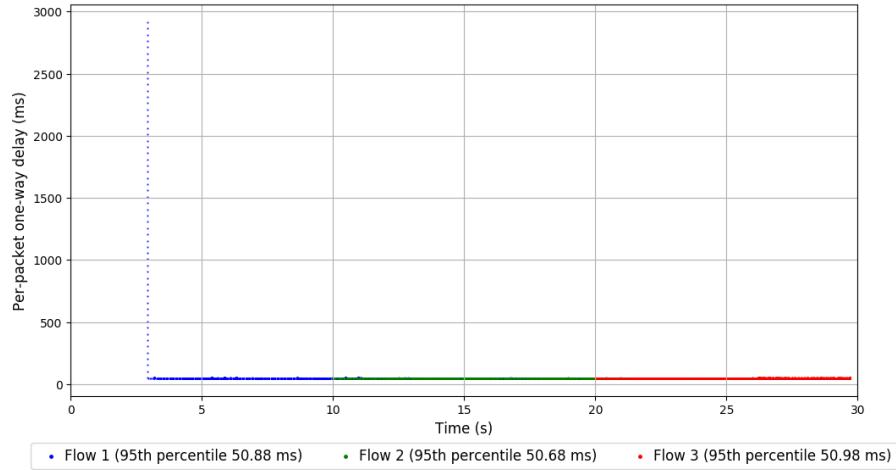
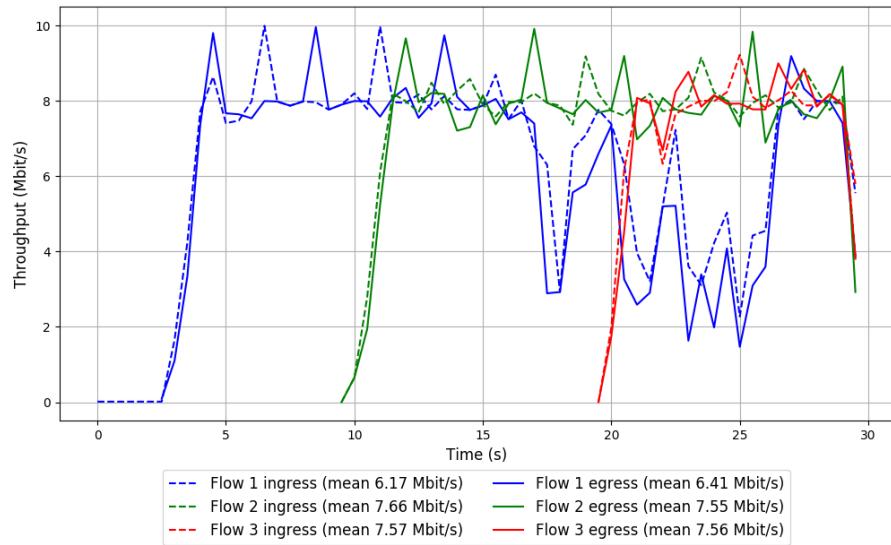
Run 2: Statistics of Sprout

Start at: 2017-08-21 05:39:00

End at: 2017-08-21 05:39:30

```
# Below is generated by plot.py at 2017-08-21 10:30:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.72 Mbit/s
95th percentile per-packet one-way delay: 50.824 ms
Loss rate: 3.80%
-- Flow 1:
Average throughput: 6.41 Mbit/s
95th percentile per-packet one-way delay: 50.879 ms
Loss rate: 6.50%
-- Flow 2:
Average throughput: 7.55 Mbit/s
95th percentile per-packet one-way delay: 50.681 ms
Loss rate: 1.75%
-- Flow 3:
Average throughput: 7.56 Mbit/s
95th percentile per-packet one-way delay: 50.978 ms
Loss rate: 1.33%
```

Run 2: Report of Sprout — Data Link



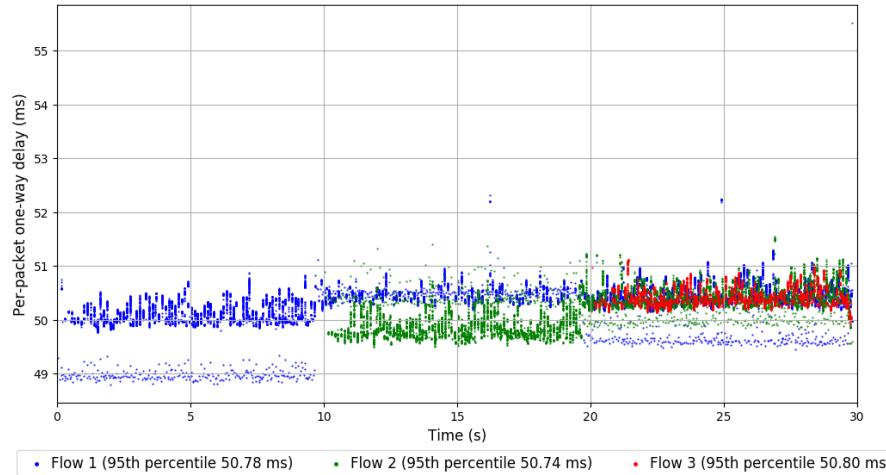
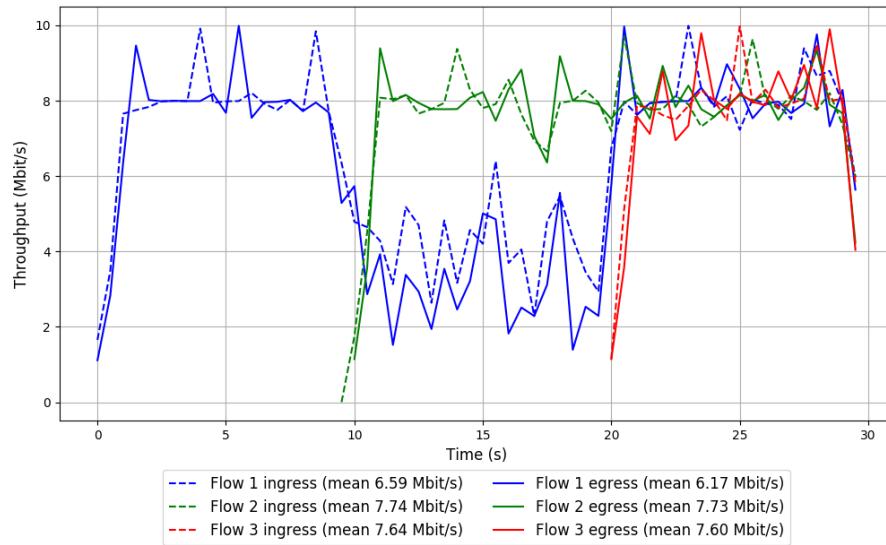
Run 3: Statistics of Sprout

Start at: 2017-08-21 05:50:36

End at: 2017-08-21 05:51:06

```
# Below is generated by plot.py at 2017-08-21 10:30:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.78 Mbit/s
95th percentile per-packet one-way delay: 50.772 ms
Loss rate: 3.54%
-- Flow 1:
Average throughput: 6.17 Mbit/s
95th percentile per-packet one-way delay: 50.777 ms
Loss rate: 6.54%
-- Flow 2:
Average throughput: 7.73 Mbit/s
95th percentile per-packet one-way delay: 50.742 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 7.60 Mbit/s
95th percentile per-packet one-way delay: 50.800 ms
Loss rate: 1.75%
```

Run 3: Report of Sprout — Data Link



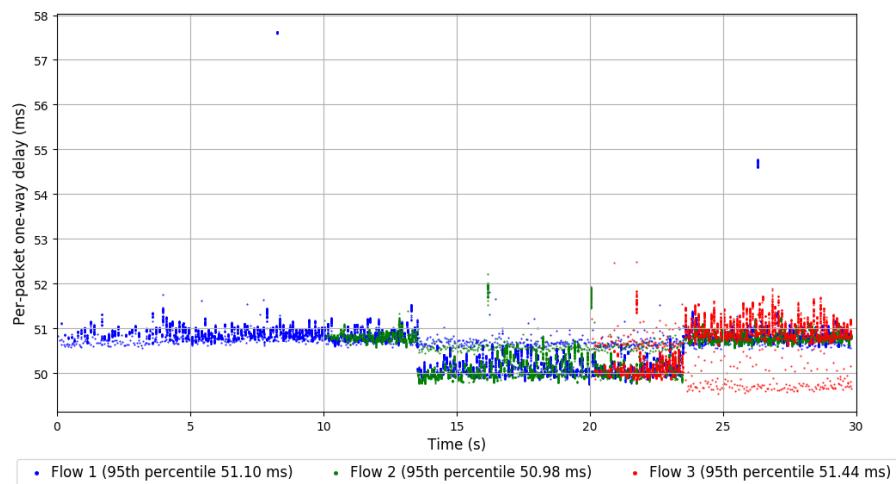
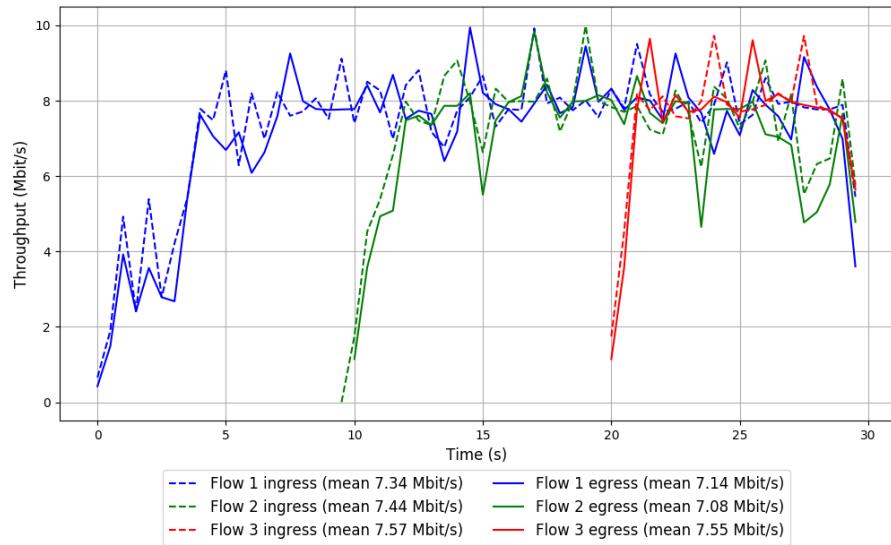
Run 4: Statistics of Sprout

Start at: 2017-08-21 06:02:22

End at: 2017-08-21 06:02:52

```
# Below is generated by plot.py at 2017-08-21 10:30:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.31 Mbit/s
95th percentile per-packet one-way delay: 51.166 ms
Loss rate: 3.58%
-- Flow 1:
Average throughput: 7.14 Mbit/s
95th percentile per-packet one-way delay: 51.102 ms
Loss rate: 3.15%
-- Flow 2:
Average throughput: 7.08 Mbit/s
95th percentile per-packet one-way delay: 50.976 ms
Loss rate: 5.35%
-- Flow 3:
Average throughput: 7.55 Mbit/s
95th percentile per-packet one-way delay: 51.443 ms
Loss rate: 1.31%
```

Run 4: Report of Sprout — Data Link



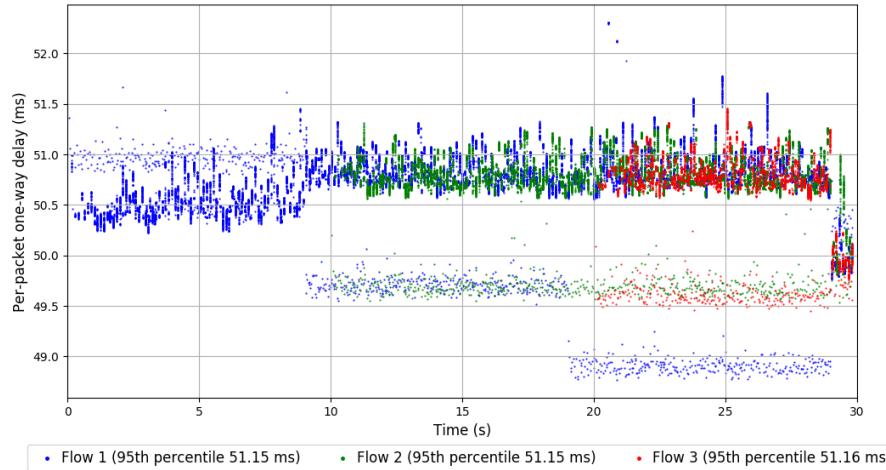
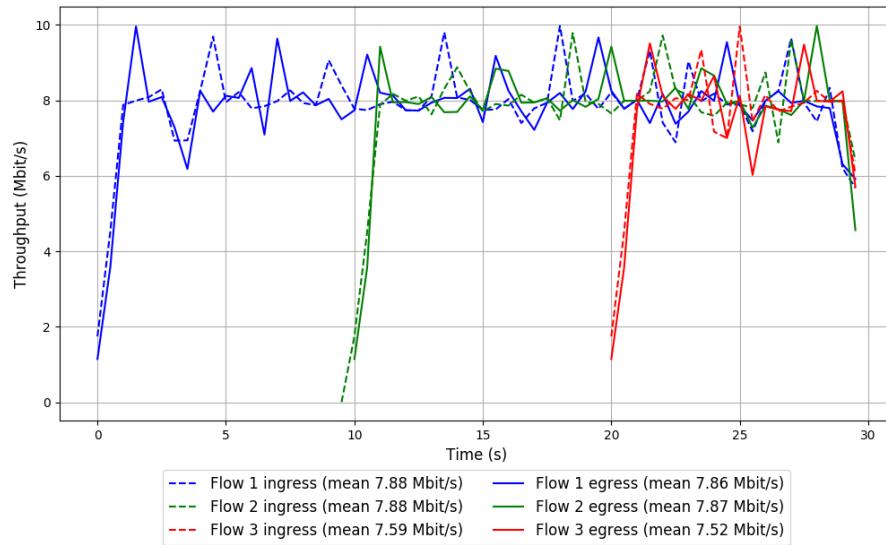
Run 5: Statistics of Sprout

Start at: 2017-08-21 06:14:07

End at: 2017-08-21 06:14:37

```
# Below is generated by plot.py at 2017-08-21 10:30:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.54 Mbit/s
95th percentile per-packet one-way delay: 51.152 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 7.86 Mbit/s
95th percentile per-packet one-way delay: 51.149 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 7.87 Mbit/s
95th percentile per-packet one-way delay: 51.151 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 7.52 Mbit/s
95th percentile per-packet one-way delay: 51.158 ms
Loss rate: 1.64%
```

Run 5: Report of Sprout — Data Link



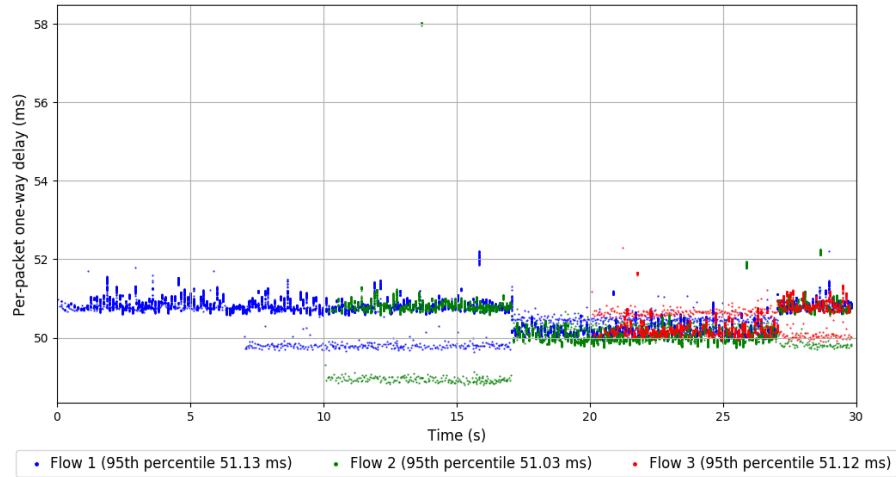
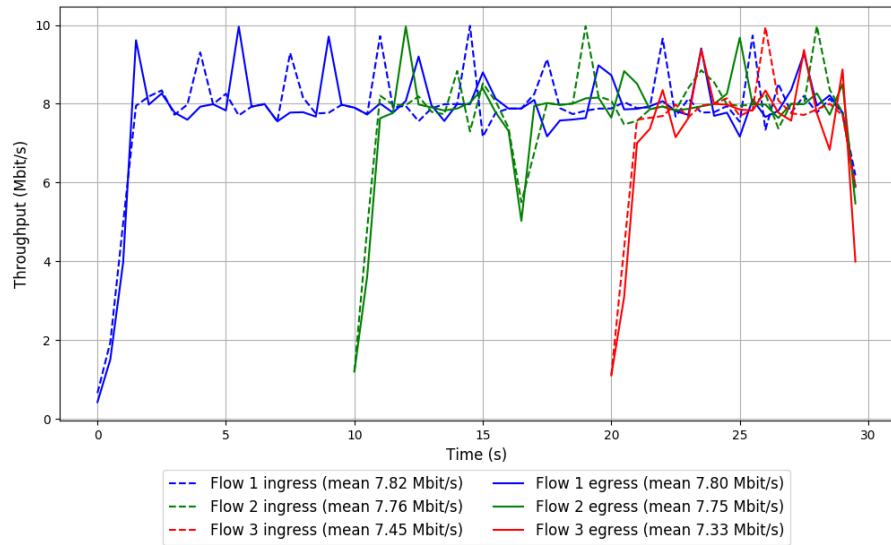
Run 6: Statistics of Sprout

Start at: 2017-08-21 06:26:19

End at: 2017-08-21 06:26:49

```
# Below is generated by plot.py at 2017-08-21 10:30:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.35 Mbit/s
95th percentile per-packet one-way delay: 51.105 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 7.80 Mbit/s
95th percentile per-packet one-way delay: 51.132 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 7.75 Mbit/s
95th percentile per-packet one-way delay: 51.033 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 7.33 Mbit/s
95th percentile per-packet one-way delay: 51.117 ms
Loss rate: 2.32%
```

Run 6: Report of Sprout — Data Link



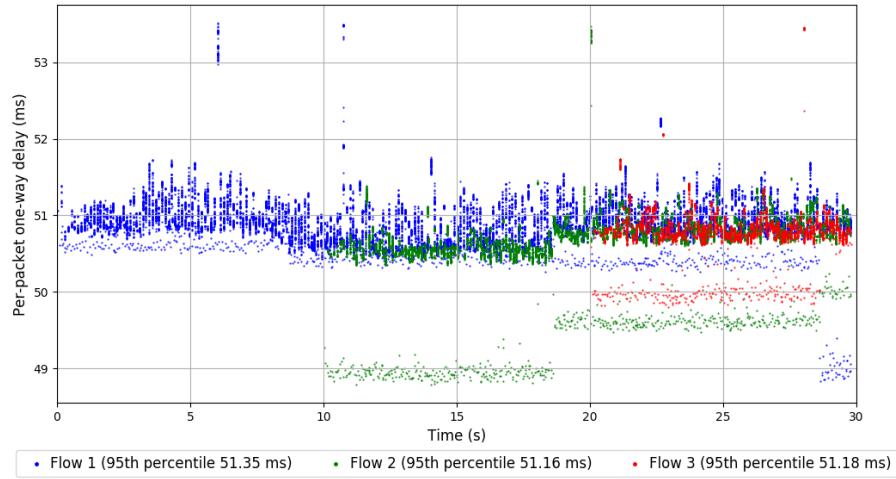
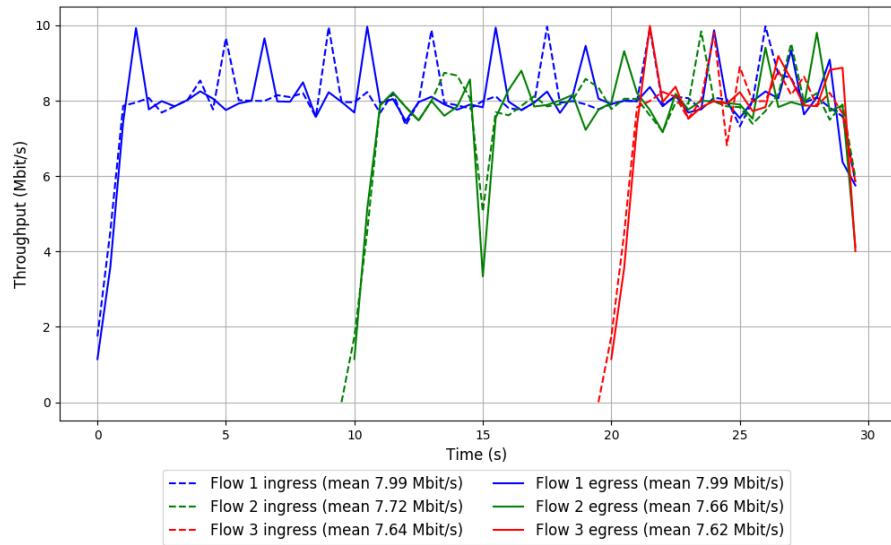
Run 7: Statistics of Sprout

Start at: 2017-08-21 06:38:37

End at: 2017-08-21 06:39:07

```
# Below is generated by plot.py at 2017-08-21 10:30:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.57 Mbit/s
95th percentile per-packet one-way delay: 51.288 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 7.99 Mbit/s
95th percentile per-packet one-way delay: 51.355 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 7.66 Mbit/s
95th percentile per-packet one-way delay: 51.158 ms
Loss rate: 1.23%
-- Flow 3:
Average throughput: 7.62 Mbit/s
95th percentile per-packet one-way delay: 51.179 ms
Loss rate: 1.31%
```

Run 7: Report of Sprout — Data Link



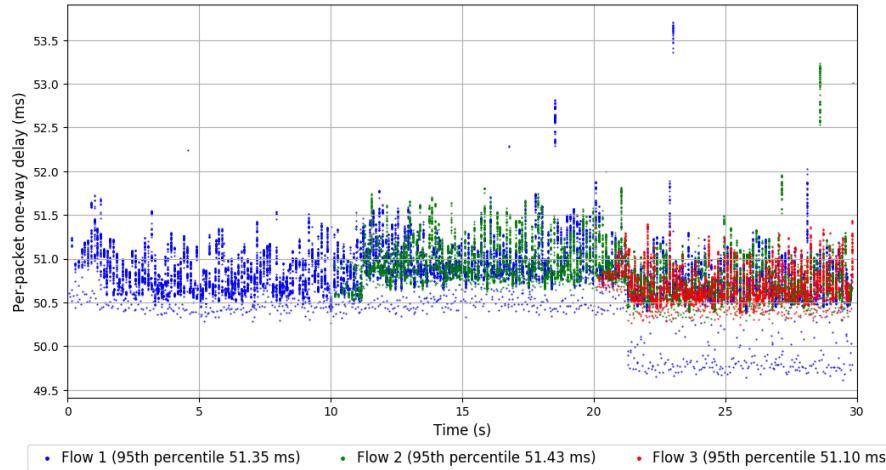
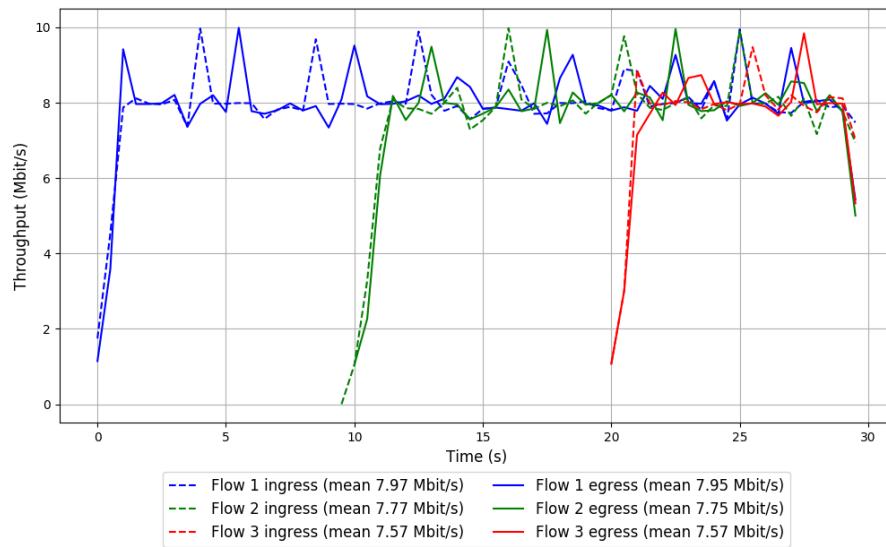
Run 8: Statistics of Sprout

Start at: 2017-08-21 06:50:35

End at: 2017-08-21 06:51:05

```
# Below is generated by plot.py at 2017-08-21 10:30:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.57 Mbit/s
95th percentile per-packet one-way delay: 51.351 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 7.95 Mbit/s
95th percentile per-packet one-way delay: 51.348 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 7.75 Mbit/s
95th percentile per-packet one-way delay: 51.426 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 7.57 Mbit/s
95th percentile per-packet one-way delay: 51.100 ms
Loss rate: 1.34%
```

Run 8: Report of Sprout — Data Link



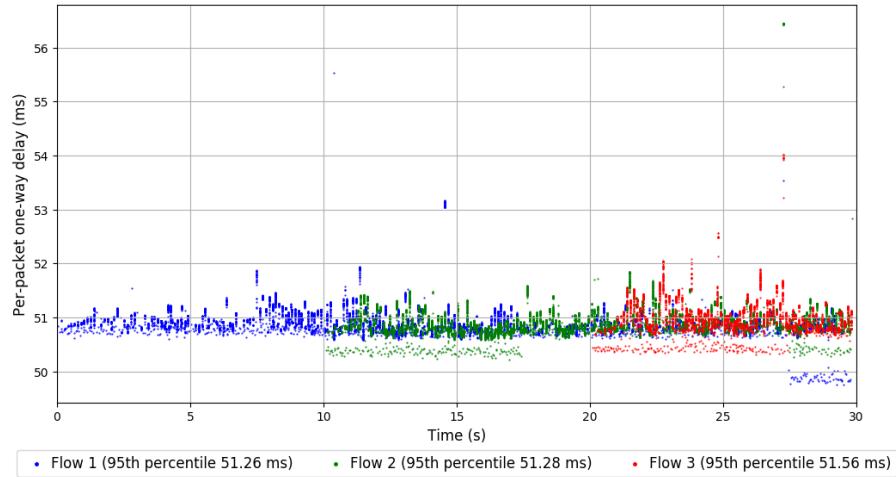
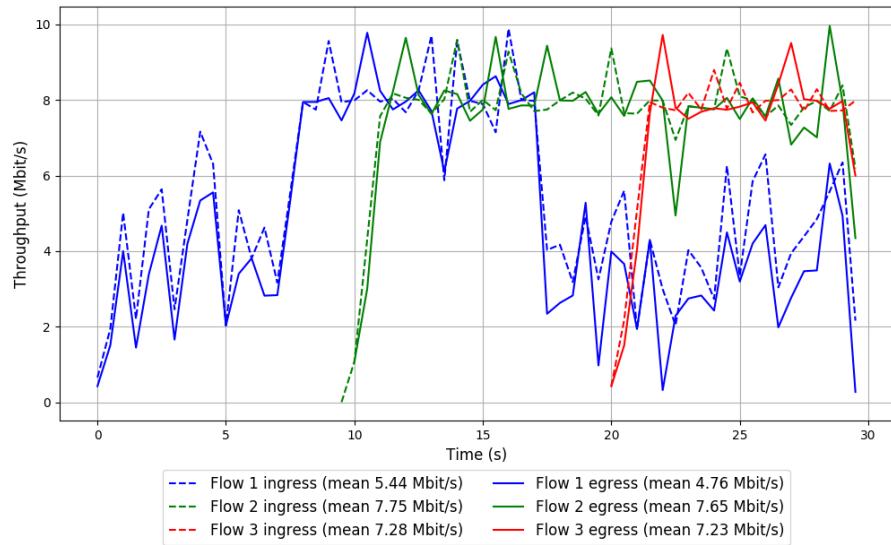
Run 9: Statistics of Sprout

Start at: 2017-08-21 07:02:19

End at: 2017-08-21 07:02:49

```
# Below is generated by plot.py at 2017-08-21 10:30:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.20 Mbit/s
95th percentile per-packet one-way delay: 51.339 ms
Loss rate: 6.40%
-- Flow 1:
Average throughput: 4.76 Mbit/s
95th percentile per-packet one-way delay: 51.264 ms
Loss rate: 12.86%
-- Flow 2:
Average throughput: 7.65 Mbit/s
95th percentile per-packet one-way delay: 51.281 ms
Loss rate: 1.68%
-- Flow 3:
Average throughput: 7.23 Mbit/s
95th percentile per-packet one-way delay: 51.557 ms
Loss rate: 1.88%
```

Run 9: Report of Sprout — Data Link



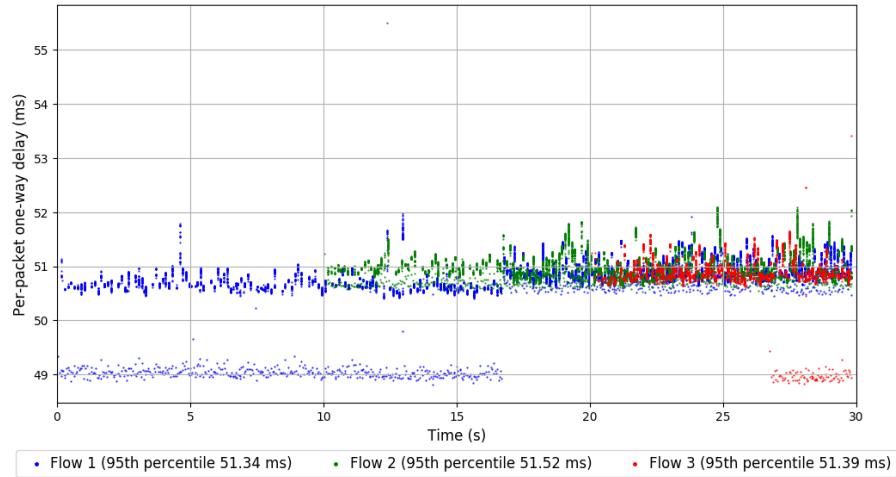
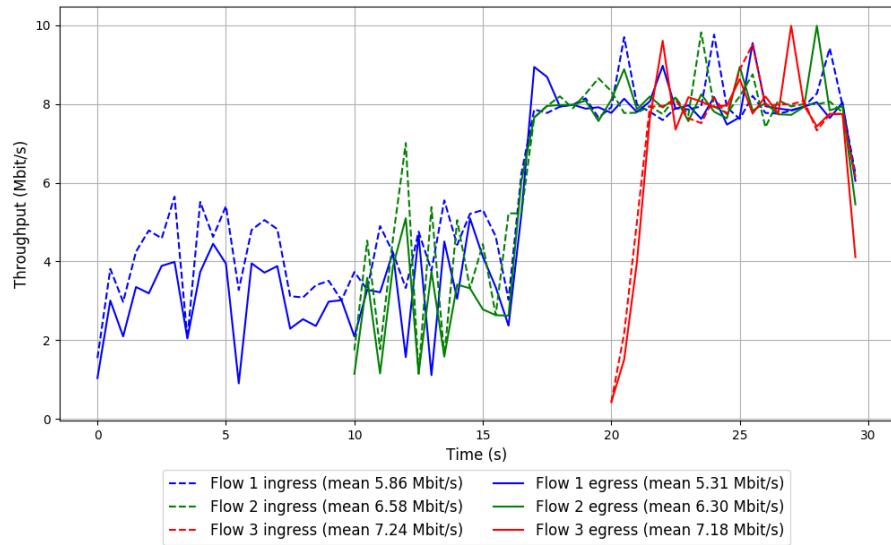
Run 10: Statistics of Sprout

Start at: 2017-08-21 07:14:09

End at: 2017-08-21 07:14:39

```
# Below is generated by plot.py at 2017-08-21 10:30:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.84 Mbit/s
95th percentile per-packet one-way delay: 51.400 ms
Loss rate: 6.47%
-- Flow 1:
Average throughput: 5.31 Mbit/s
95th percentile per-packet one-way delay: 51.338 ms
Loss rate: 9.80%
-- Flow 2:
Average throughput: 6.30 Mbit/s
95th percentile per-packet one-way delay: 51.516 ms
Loss rate: 4.75%
-- Flow 3:
Average throughput: 7.18 Mbit/s
95th percentile per-packet one-way delay: 51.391 ms
Loss rate: 1.43%
```

Run 10: Report of Sprout — Data Link

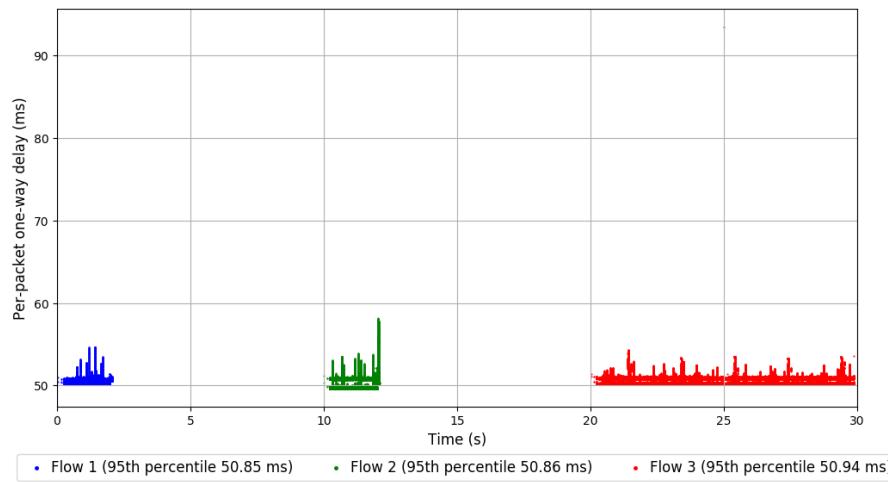
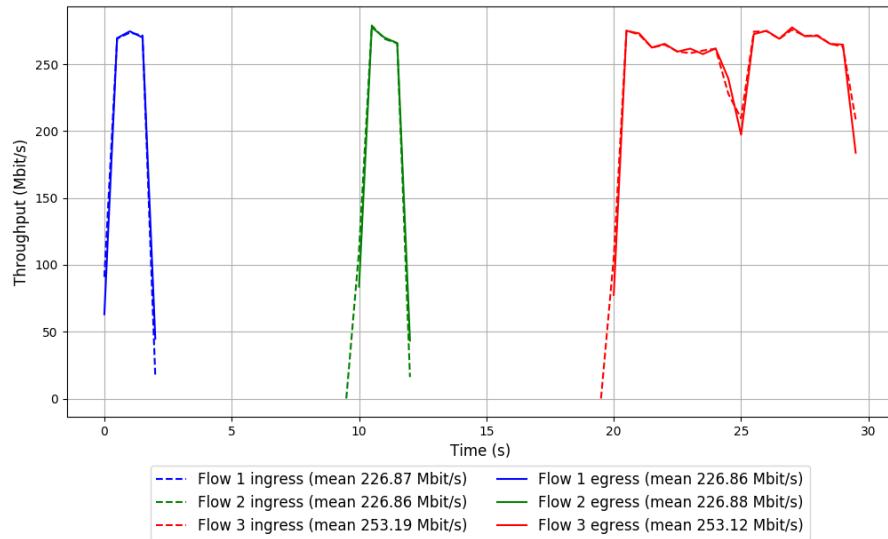


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-08-21 05:25:44
End at: 2017-08-21 05:26:14

# Below is generated by plot.py at 2017-08-21 10:31:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 114.74 Mbit/s
95th percentile per-packet one-way delay: 50.927 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 226.86 Mbit/s
95th percentile per-packet one-way delay: 50.847 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 226.88 Mbit/s
95th percentile per-packet one-way delay: 50.859 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 253.12 Mbit/s
95th percentile per-packet one-way delay: 50.936 ms
Loss rate: 1.00%
```

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



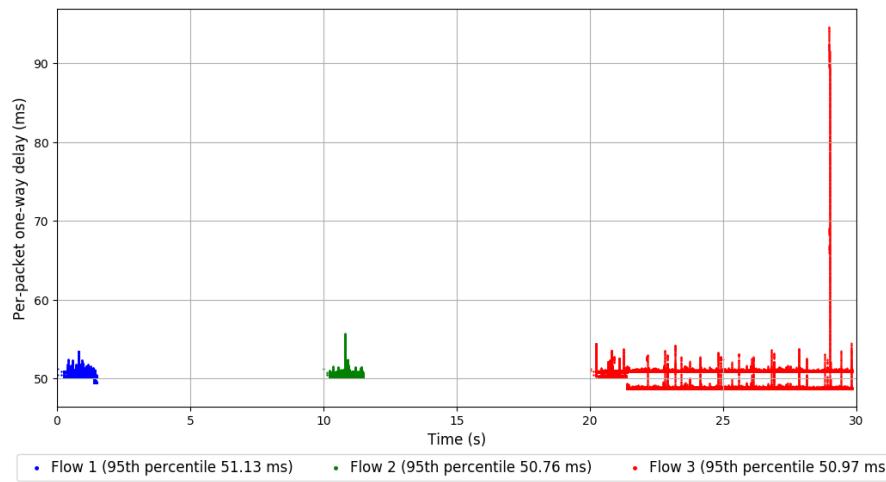
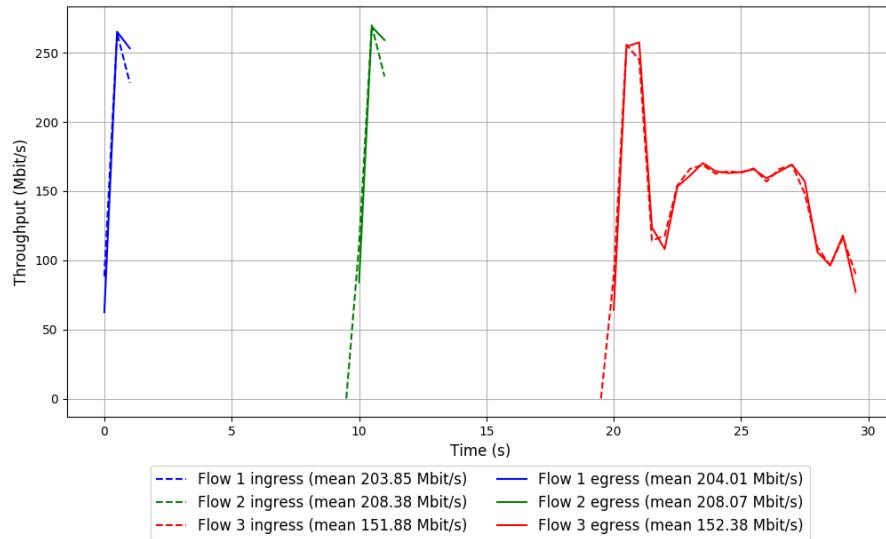
Run 2: Statistics of TaoVA-100x

Start at: 2017-08-21 05:37:35

End at: 2017-08-21 05:38:05

```
# Below is generated by plot.py at 2017-08-21 10:31:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 70.29 Mbit/s
95th percentile per-packet one-way delay: 50.970 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 204.01 Mbit/s
95th percentile per-packet one-way delay: 51.133 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 208.07 Mbit/s
95th percentile per-packet one-way delay: 50.758 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 152.38 Mbit/s
95th percentile per-packet one-way delay: 50.970 ms
Loss rate: 0.73%
```

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



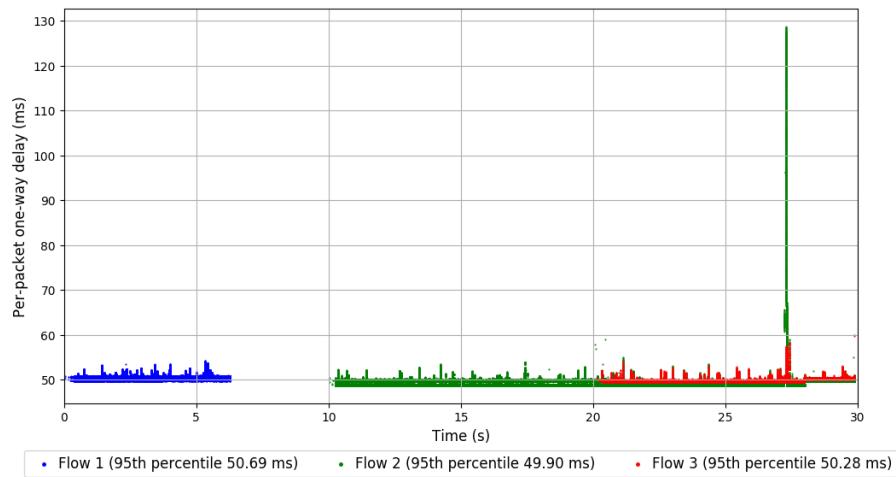
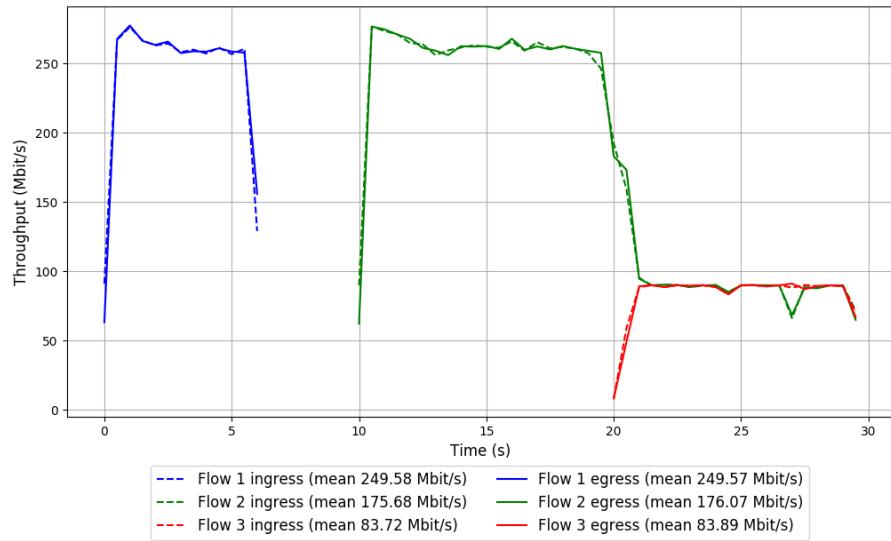
Run 3: Statistics of TaoVA-100x

Start at: 2017-08-21 05:48:58

End at: 2017-08-21 05:49:28

```
# Below is generated by plot.py at 2017-08-21 10:31:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 196.62 Mbit/s
95th percentile per-packet one-way delay: 50.597 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 249.57 Mbit/s
95th percentile per-packet one-way delay: 50.686 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 176.07 Mbit/s
95th percentile per-packet one-way delay: 49.904 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 83.89 Mbit/s
95th percentile per-packet one-way delay: 50.280 ms
Loss rate: 0.81%
```

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



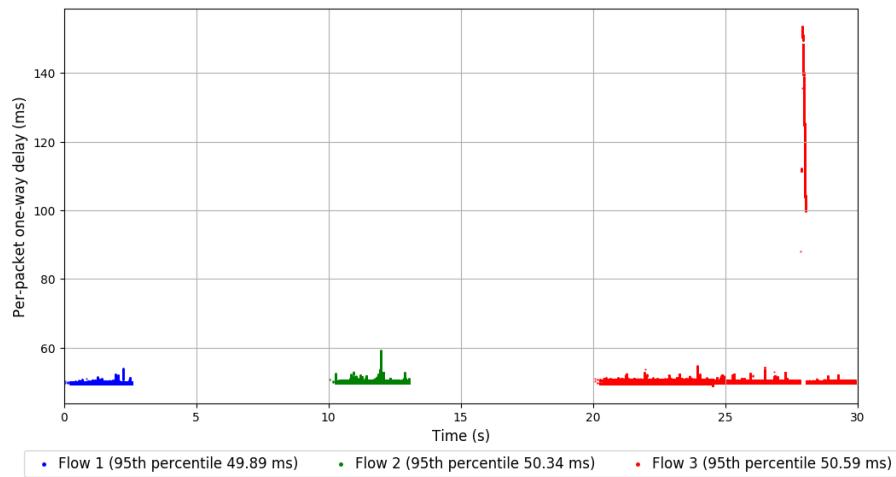
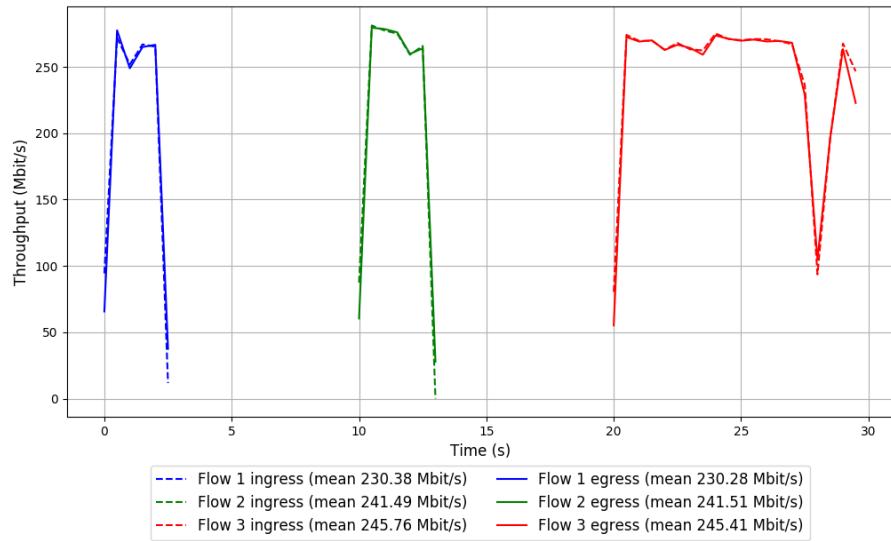
Run 4: Statistics of TaoVA-100x

Start at: 2017-08-21 06:00:51

End at: 2017-08-21 06:01:21

```
# Below is generated by plot.py at 2017-08-21 10:31:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 124.50 Mbit/s
95th percentile per-packet one-way delay: 50.566 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 230.28 Mbit/s
95th percentile per-packet one-way delay: 49.889 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 241.51 Mbit/s
95th percentile per-packet one-way delay: 50.341 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 245.41 Mbit/s
95th percentile per-packet one-way delay: 50.595 ms
Loss rate: 1.18%
```

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



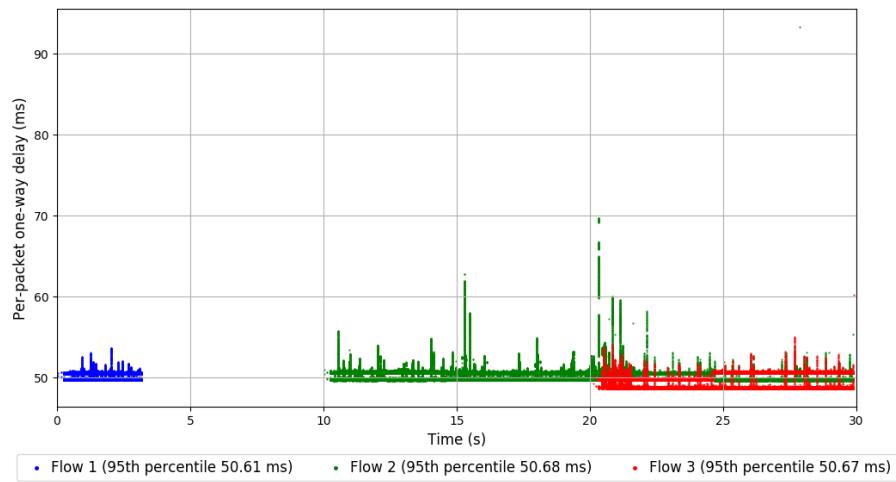
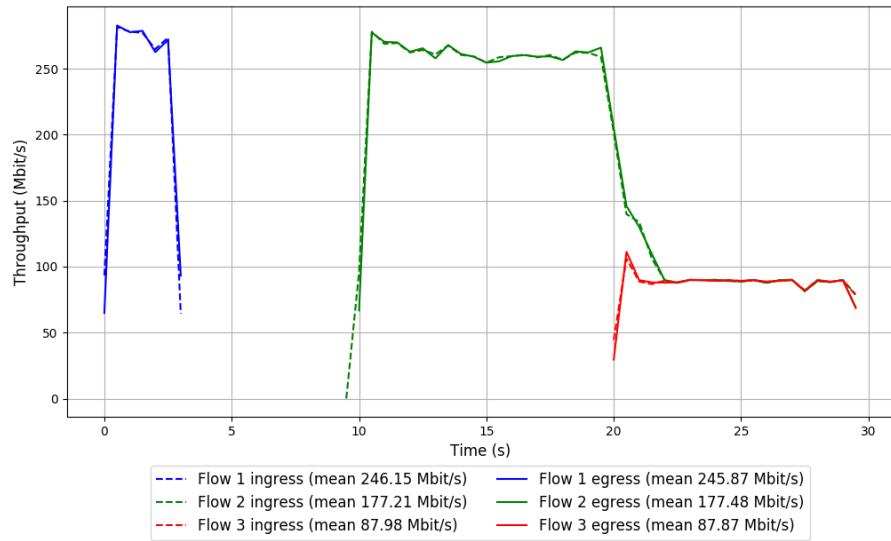
Run 5: Statistics of TaoVA-100x

Start at: 2017-08-21 06:12:31

End at: 2017-08-21 06:13:01

```
# Below is generated by plot.py at 2017-08-21 10:32:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 172.43 Mbit/s
95th percentile per-packet one-way delay: 50.671 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 245.87 Mbit/s
95th percentile per-packet one-way delay: 50.606 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 177.48 Mbit/s
95th percentile per-packet one-way delay: 50.678 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 87.87 Mbit/s
95th percentile per-packet one-way delay: 50.673 ms
Loss rate: 1.07%
```

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



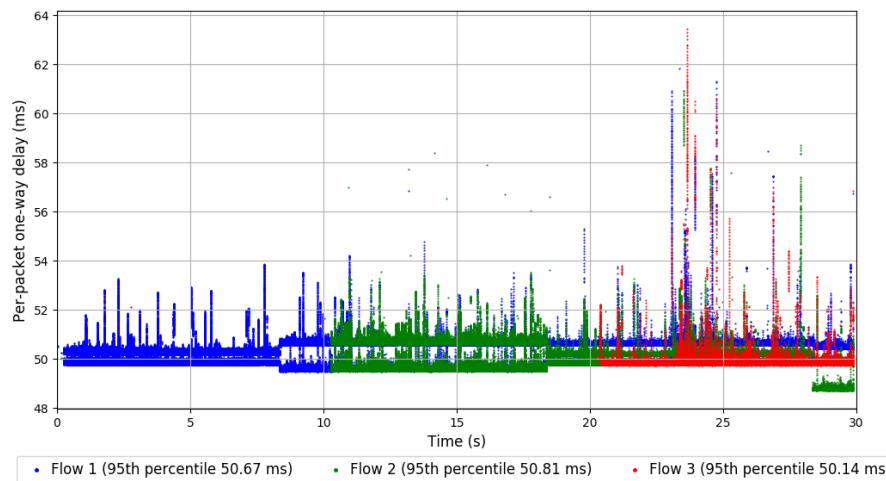
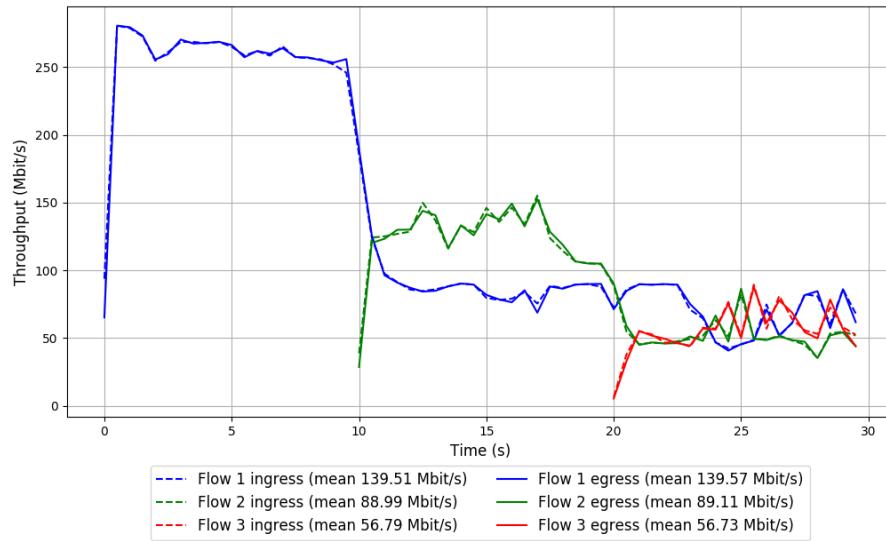
Run 6: Statistics of TaoVA-100x

Start at: 2017-08-21 06:24:38

End at: 2017-08-21 06:25:08

```
# Below is generated by plot.py at 2017-08-21 10:33:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 217.21 Mbit/s
95th percentile per-packet one-way delay: 50.700 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 139.57 Mbit/s
95th percentile per-packet one-way delay: 50.667 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 89.11 Mbit/s
95th percentile per-packet one-way delay: 50.815 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 56.73 Mbit/s
95th percentile per-packet one-way delay: 50.139 ms
Loss rate: 1.10%
```

Run 6: Report of TaoVA-100x — Data Link

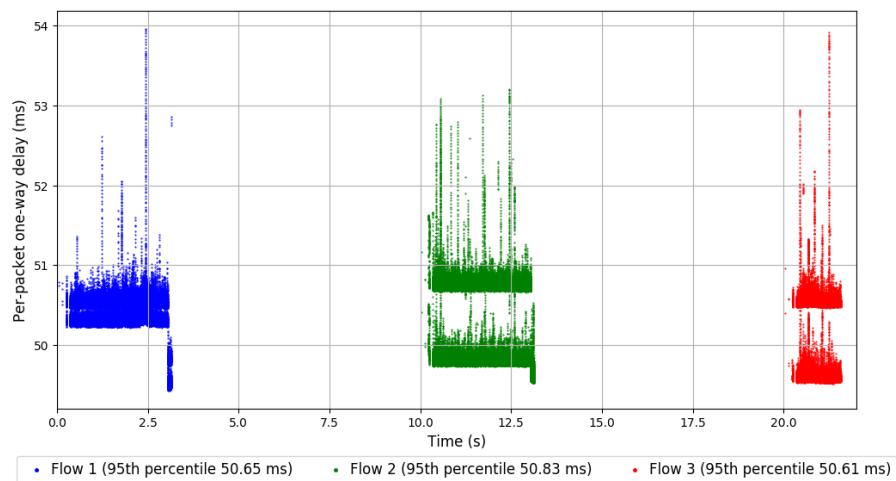
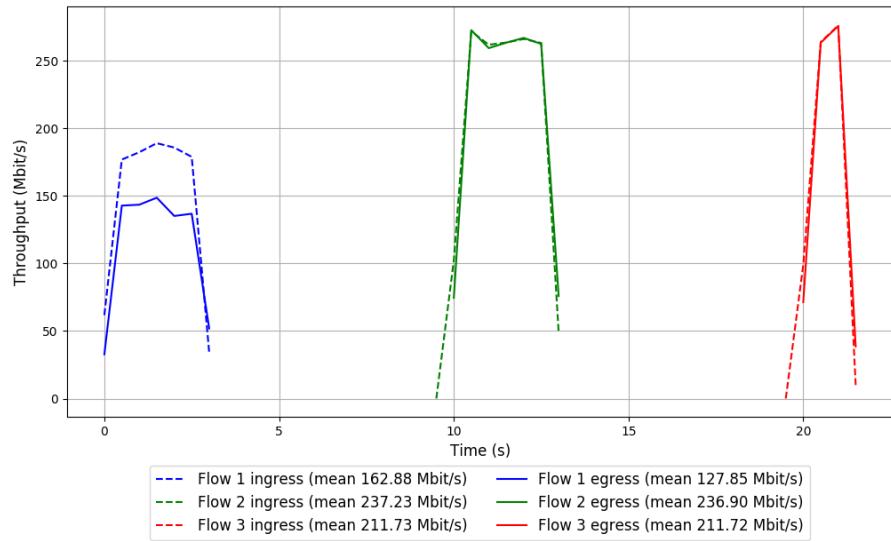


Run 7: Statistics of TaoVA-100x

Start at: 2017-08-21 06:37:13

End at: 2017-08-21 06:37:43

Run 7: Report of TaoVA-100x — Data Link



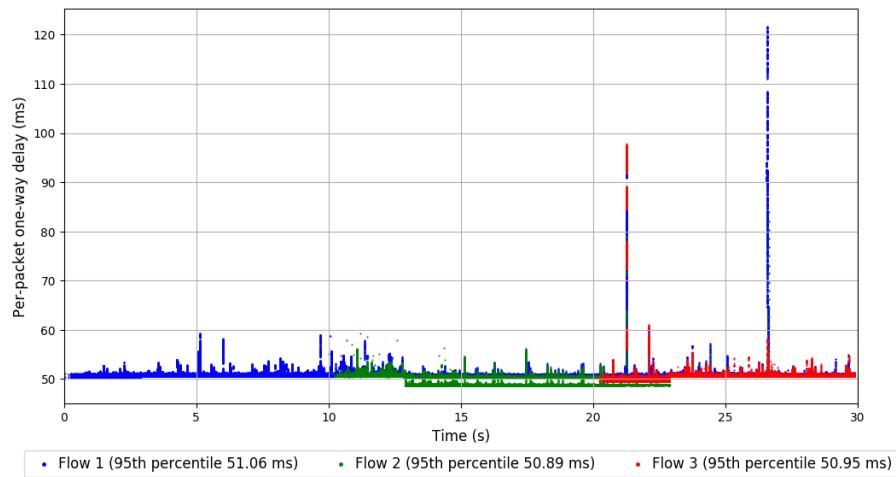
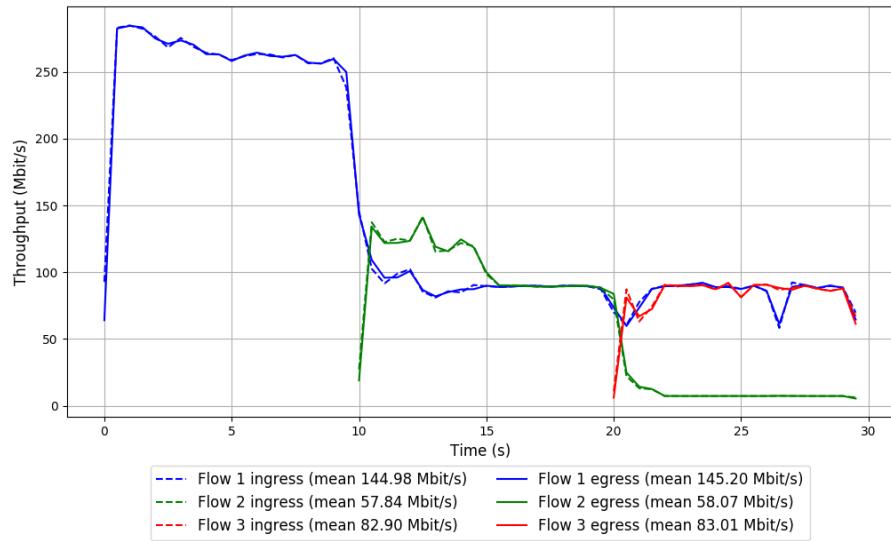
Run 8: Statistics of TaoVA-100x

Start at: 2017-08-21 06:48:53

End at: 2017-08-21 06:49:23

```
# Below is generated by plot.py at 2017-08-21 10:34:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 210.73 Mbit/s
95th percentile per-packet one-way delay: 51.042 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 145.20 Mbit/s
95th percentile per-packet one-way delay: 51.057 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 58.07 Mbit/s
95th percentile per-packet one-way delay: 50.887 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 83.01 Mbit/s
95th percentile per-packet one-way delay: 50.954 ms
Loss rate: 0.91%
```

Run 8: Report of TaoVA-100x — Data Link



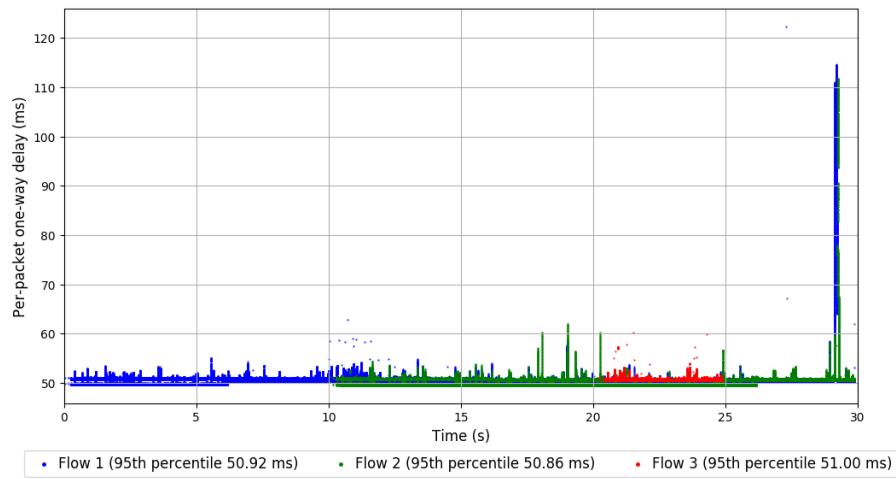
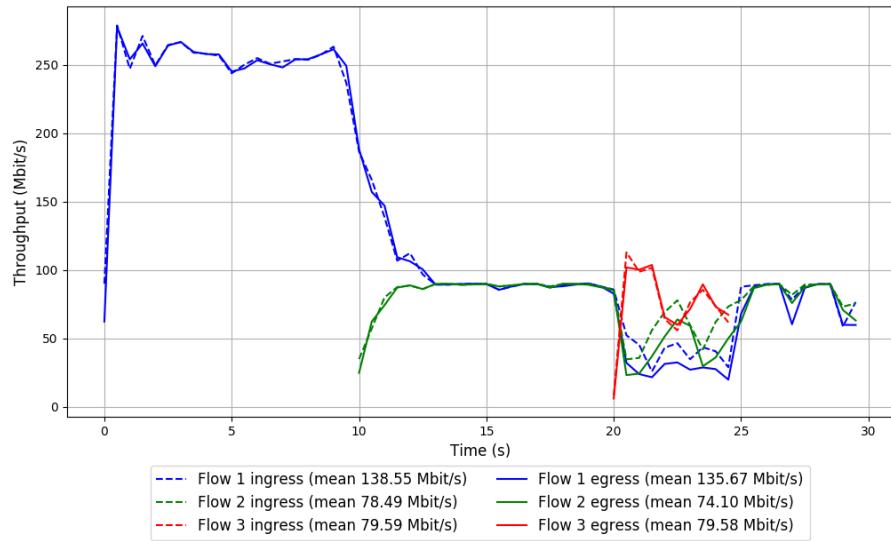
Run 9: Statistics of TaoVA-100x

Start at: 2017-08-21 07:00:40

End at: 2017-08-21 07:01:10

```
# Below is generated by plot.py at 2017-08-21 10:34:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 197.21 Mbit/s
95th percentile per-packet one-way delay: 50.901 ms
Loss rate: 3.18%
-- Flow 1:
Average throughput: 135.67 Mbit/s
95th percentile per-packet one-way delay: 50.917 ms
Loss rate: 2.39%
-- Flow 2:
Average throughput: 74.10 Mbit/s
95th percentile per-packet one-way delay: 50.858 ms
Loss rate: 6.05%
-- Flow 3:
Average throughput: 79.58 Mbit/s
95th percentile per-packet one-way delay: 50.996 ms
Loss rate: 0.02%
```

Run 9: Report of TaoVA-100x — Data Link



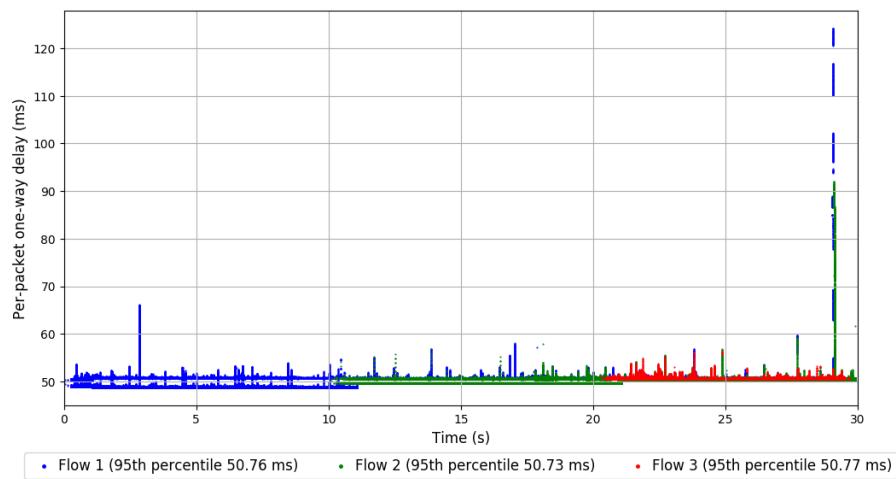
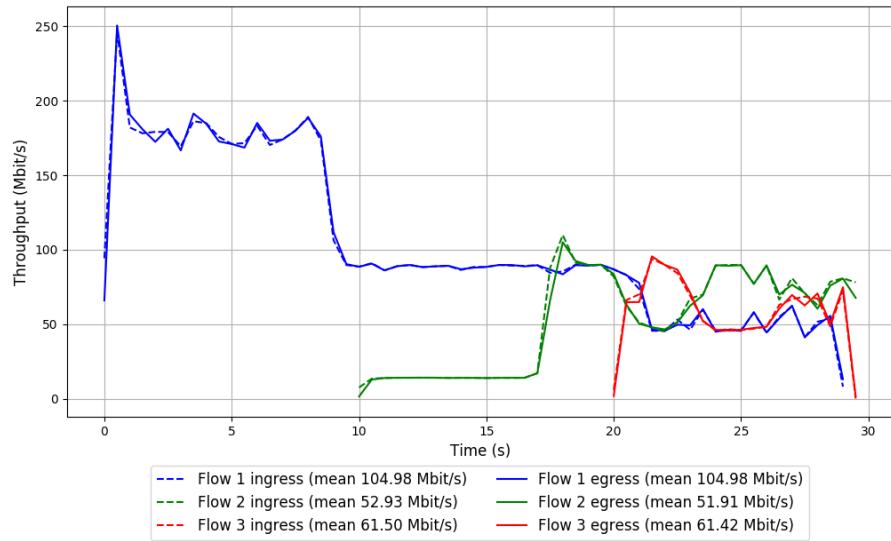
Run 10: Statistics of TaoVA-100x

Start at: 2017-08-21 07:12:35

End at: 2017-08-21 07:13:05

```
# Below is generated by plot.py at 2017-08-21 10:34:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 156.86 Mbit/s
95th percentile per-packet one-way delay: 50.753 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 104.98 Mbit/s
95th percentile per-packet one-way delay: 50.756 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 51.91 Mbit/s
95th percentile per-packet one-way delay: 50.728 ms
Loss rate: 2.41%
-- Flow 3:
Average throughput: 61.42 Mbit/s
95th percentile per-packet one-way delay: 50.773 ms
Loss rate: 0.12%
```

Run 10: Report of TaoVA-100x — Data Link

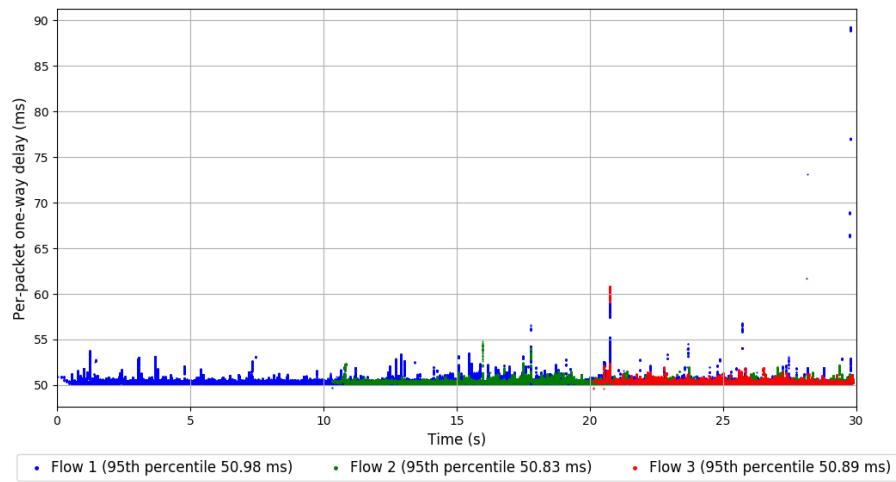
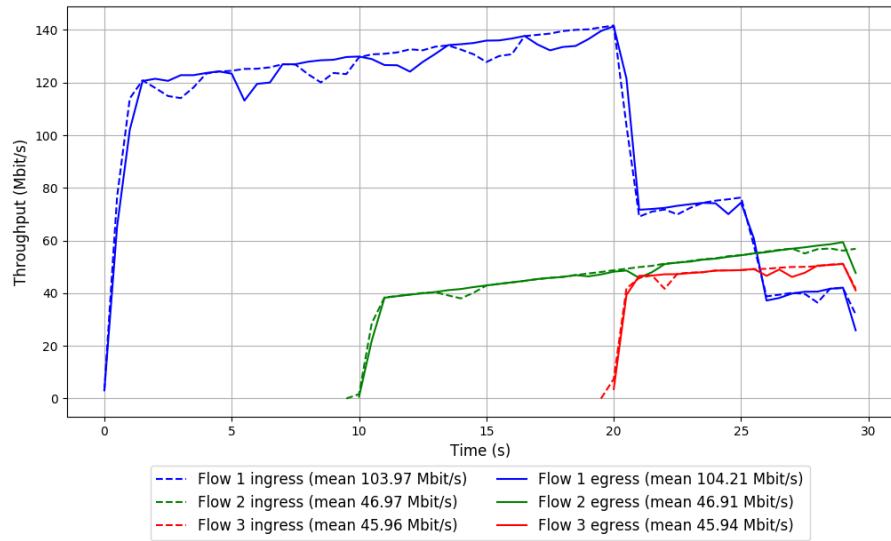


```
Run 1: Statistics of TCP Vegas

Start at: 2017-08-21 05:27:54
End at: 2017-08-21 05:28:24

# Below is generated by plot.py at 2017-08-21 10:34:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 150.58 Mbit/s
95th percentile per-packet one-way delay: 50.925 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 104.21 Mbit/s
95th percentile per-packet one-way delay: 50.980 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 46.91 Mbit/s
95th percentile per-packet one-way delay: 50.827 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 45.94 Mbit/s
95th percentile per-packet one-way delay: 50.887 ms
Loss rate: 1.13%
```

Run 1: Report of TCP Vegas — Data Link



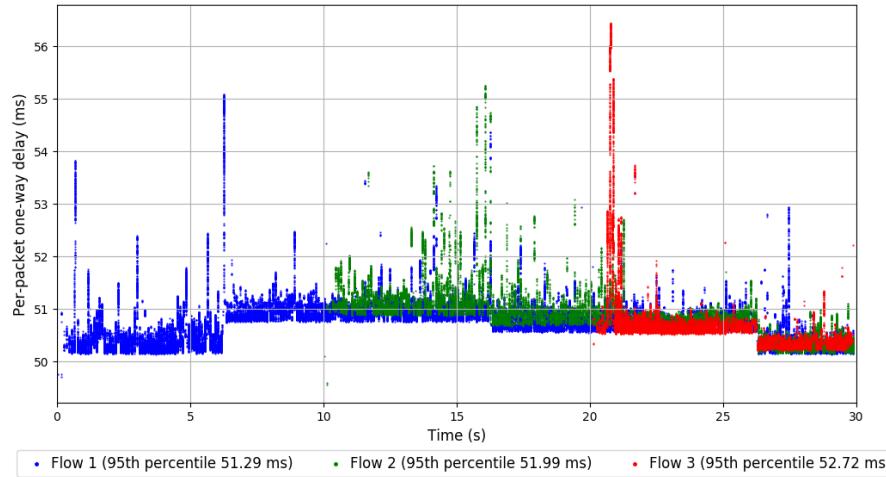
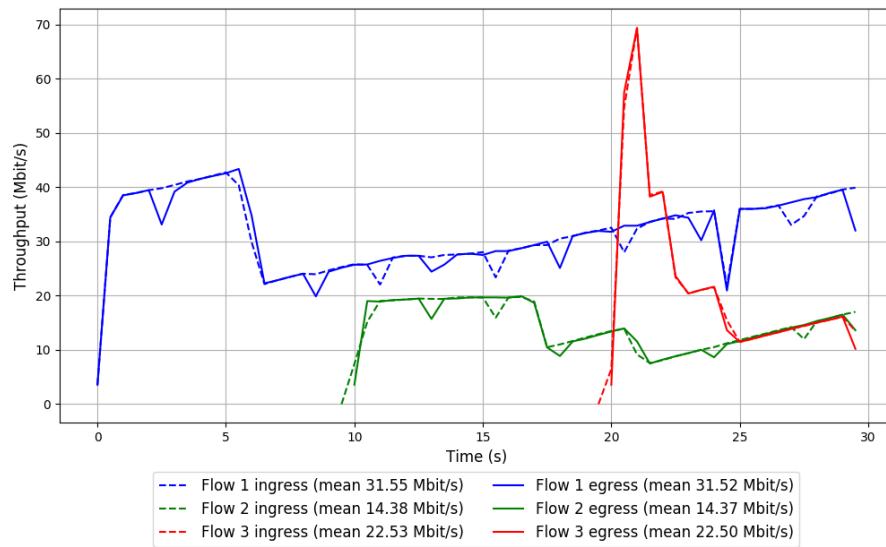
Run 2: Statistics of TCP Vegas

Start at: 2017-08-21 05:39:40

End at: 2017-08-21 05:40:10

```
# Below is generated by plot.py at 2017-08-21 10:34:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.49 Mbit/s
95th percentile per-packet one-way delay: 51.587 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 31.52 Mbit/s
95th percentile per-packet one-way delay: 51.289 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 14.37 Mbit/s
95th percentile per-packet one-way delay: 51.988 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 22.50 Mbit/s
95th percentile per-packet one-way delay: 52.717 ms
Loss rate: 1.18%
```

Run 2: Report of TCP Vegas — Data Link



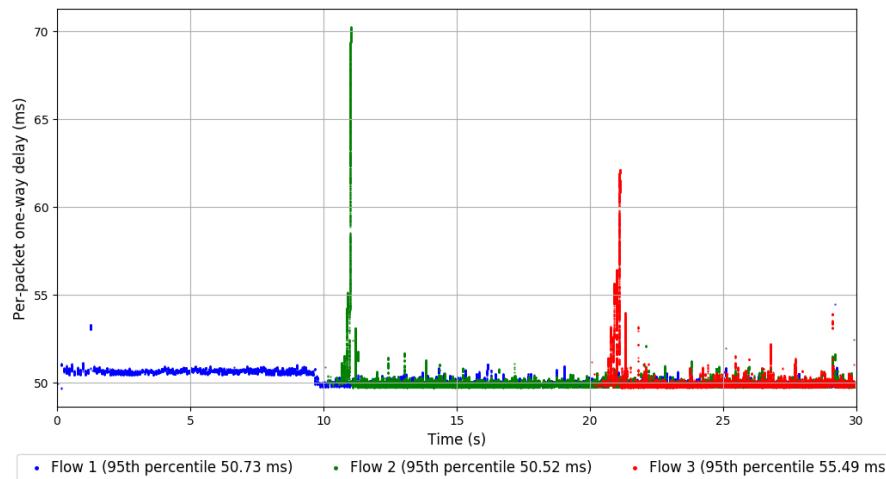
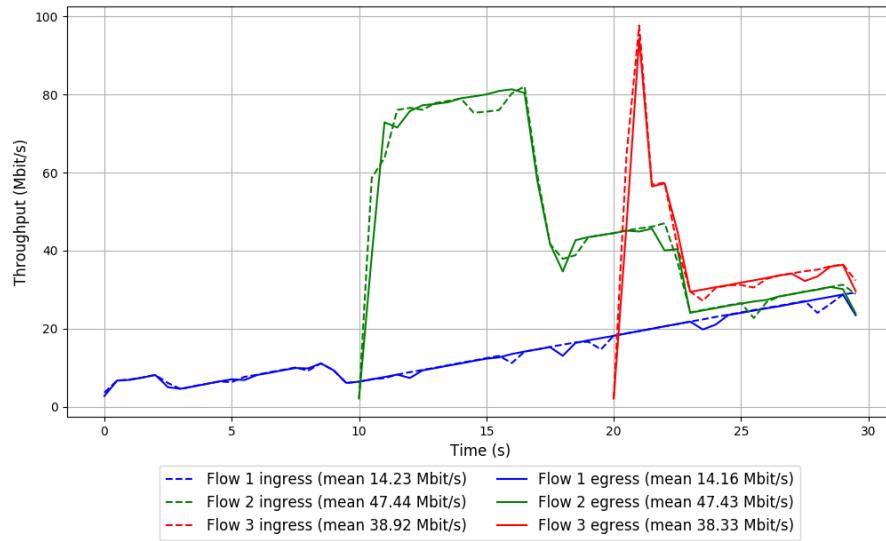
Run 3: Statistics of TCP Vegas

Start at: 2017-08-21 05:51:16

End at: 2017-08-21 05:51:46

```
# Below is generated by plot.py at 2017-08-21 10:34:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 58.28 Mbit/s
95th percentile per-packet one-way delay: 50.864 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 14.16 Mbit/s
95th percentile per-packet one-way delay: 50.735 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 47.43 Mbit/s
95th percentile per-packet one-way delay: 50.524 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 38.33 Mbit/s
95th percentile per-packet one-way delay: 55.492 ms
Loss rate: 2.56%
```

Run 3: Report of TCP Vegas — Data Link



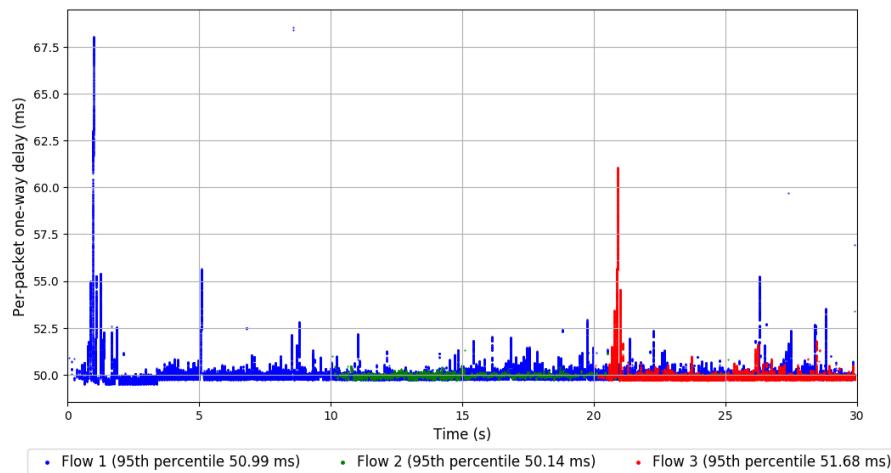
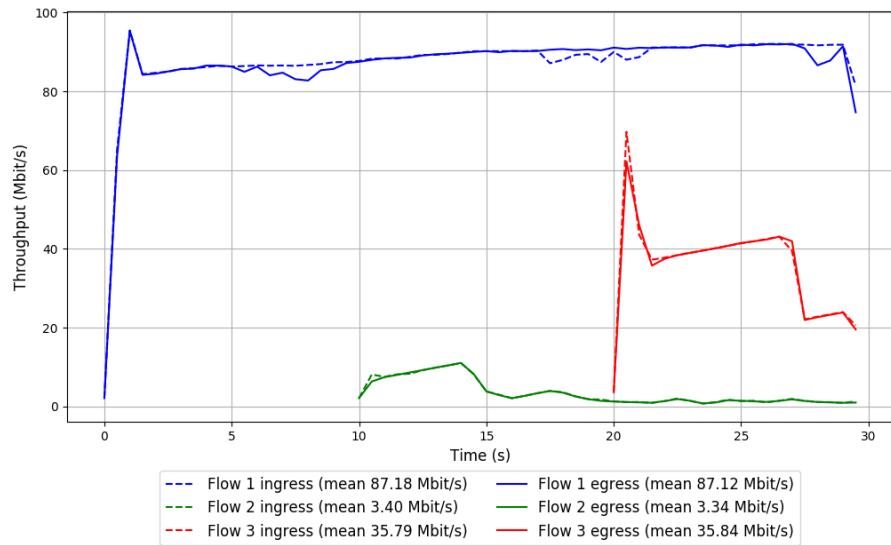
Run 4: Statistics of TCP Vegas

Start at: 2017-08-21 06:03:03

End at: 2017-08-21 06:03:33

```
# Below is generated by plot.py at 2017-08-21 10:35:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 101.13 Mbit/s
95th percentile per-packet one-way delay: 51.032 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 87.12 Mbit/s
95th percentile per-packet one-way delay: 50.986 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 3.34 Mbit/s
95th percentile per-packet one-way delay: 50.137 ms
Loss rate: 2.09%
-- Flow 3:
Average throughput: 35.84 Mbit/s
95th percentile per-packet one-way delay: 51.680 ms
Loss rate: 0.88%
```

Run 4: Report of TCP Vegas — Data Link



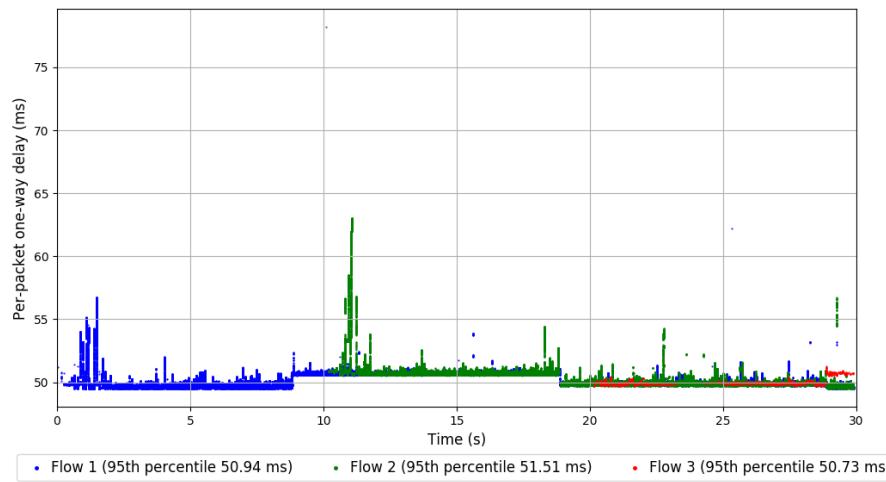
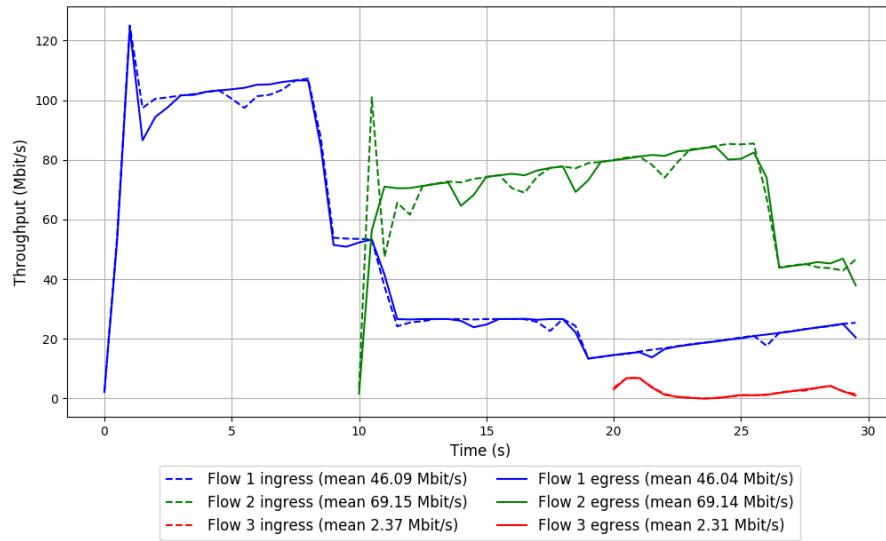
Run 5: Statistics of TCP Vegas

Start at: 2017-08-21 06:14:47

End at: 2017-08-21 06:15:17

```
# Below is generated by plot.py at 2017-08-21 10:35:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.64 Mbit/s
95th percentile per-packet one-way delay: 51.252 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 46.04 Mbit/s
95th percentile per-packet one-way delay: 50.943 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 69.14 Mbit/s
95th percentile per-packet one-way delay: 51.507 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 50.731 ms
Loss rate: 3.73%
```

Run 5: Report of TCP Vegas — Data Link



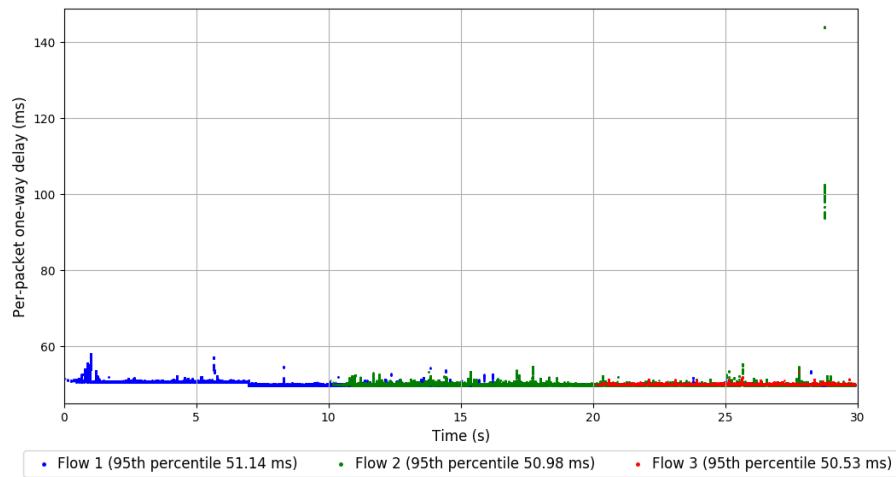
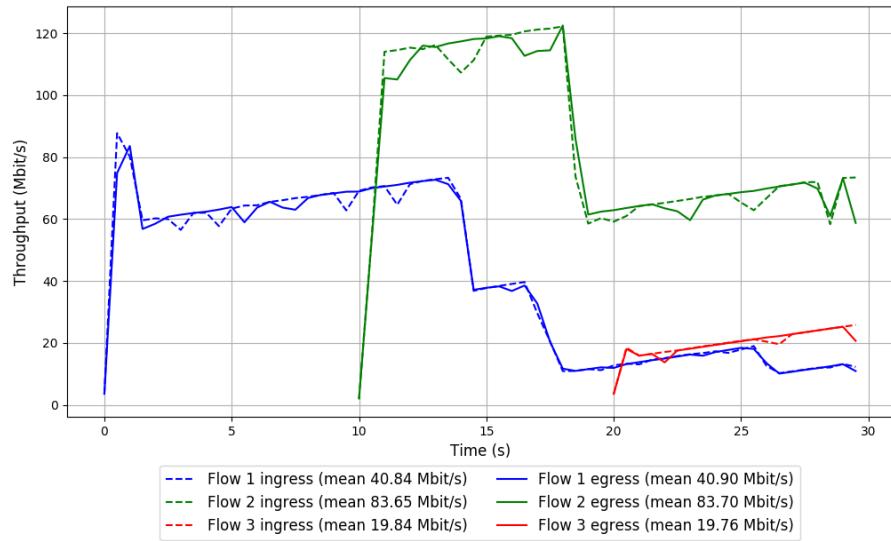
Run 6: Statistics of TCP Vegas

Start at: 2017-08-21 06:26:59

End at: 2017-08-21 06:27:29

```
# Below is generated by plot.py at 2017-08-21 10:35:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 102.99 Mbit/s
95th percentile per-packet one-way delay: 51.043 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 40.90 Mbit/s
95th percentile per-packet one-way delay: 51.138 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 83.70 Mbit/s
95th percentile per-packet one-way delay: 50.985 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 19.76 Mbit/s
95th percentile per-packet one-way delay: 50.534 ms
Loss rate: 1.41%
```

Run 6: Report of TCP Vegas — Data Link



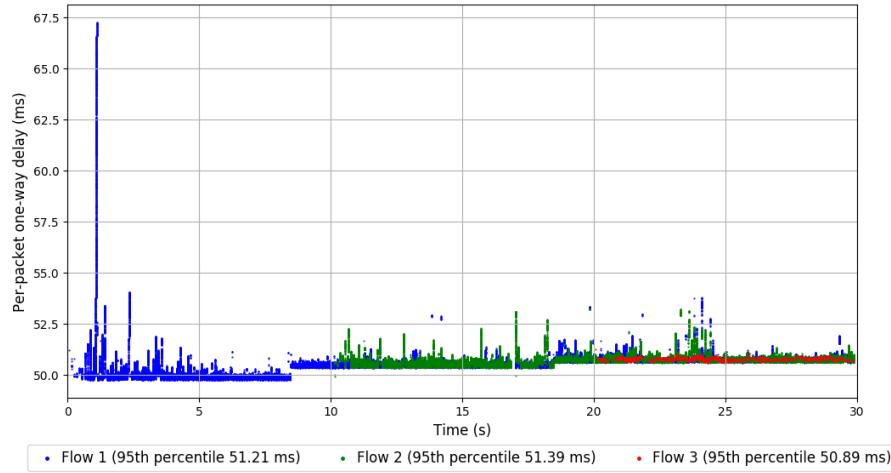
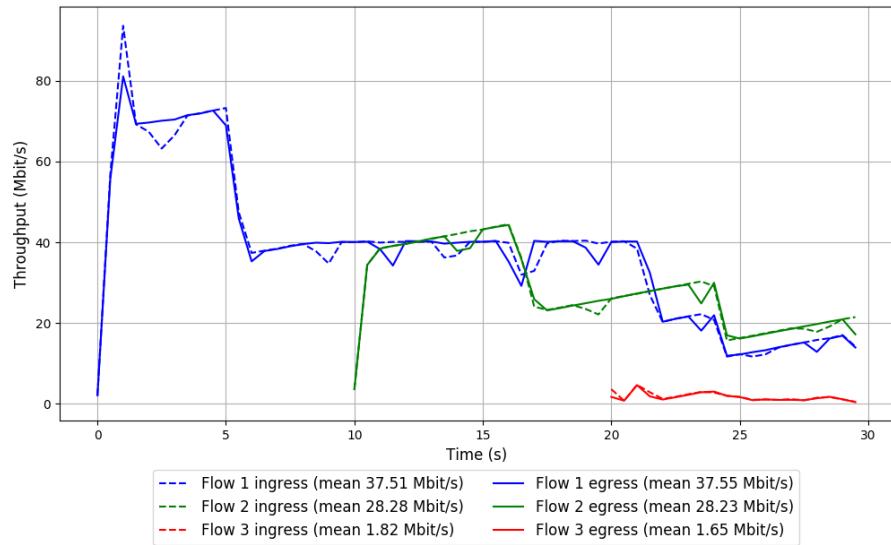
Run 7: Statistics of TCP Vegas

Start at: 2017-08-21 06:39:18

End at: 2017-08-21 06:39:48

```
# Below is generated by plot.py at 2017-08-21 10:35:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 56.85 Mbit/s
95th percentile per-packet one-way delay: 51.281 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 37.55 Mbit/s
95th percentile per-packet one-way delay: 51.212 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 28.23 Mbit/s
95th percentile per-packet one-way delay: 51.391 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 1.65 Mbit/s
95th percentile per-packet one-way delay: 50.886 ms
Loss rate: 10.13%
```

Run 7: Report of TCP Vegas — Data Link



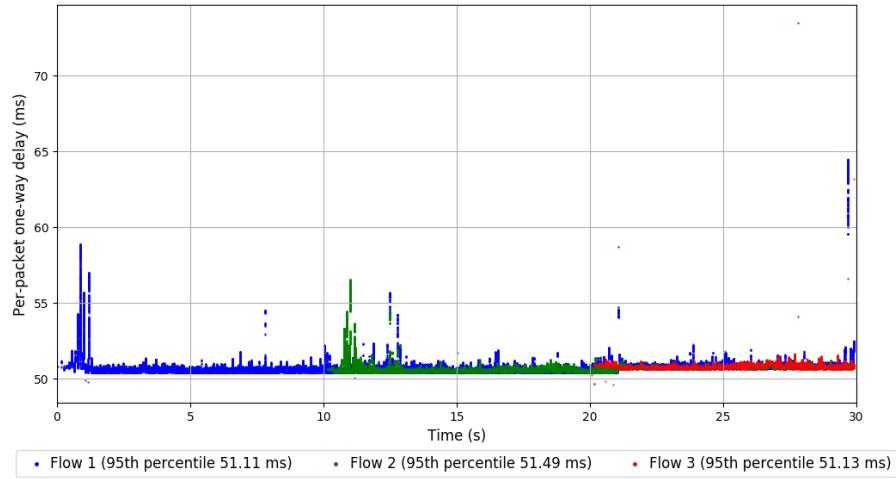
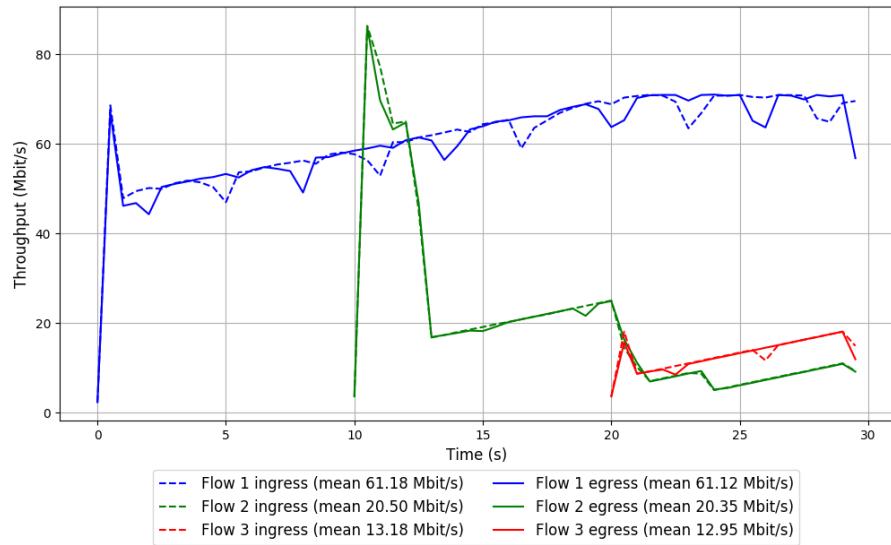
Run 8: Statistics of TCP Vegas

Start at: 2017-08-21 06:51:15

End at: 2017-08-21 06:51:45

```
# Below is generated by plot.py at 2017-08-21 10:35:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.86 Mbit/s
95th percentile per-packet one-way delay: 51.156 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 61.12 Mbit/s
95th percentile per-packet one-way delay: 51.114 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 20.35 Mbit/s
95th percentile per-packet one-way delay: 51.494 ms
Loss rate: 1.22%
-- Flow 3:
Average throughput: 12.95 Mbit/s
95th percentile per-packet one-way delay: 51.133 ms
Loss rate: 2.07%
```

Run 8: Report of TCP Vegas — Data Link



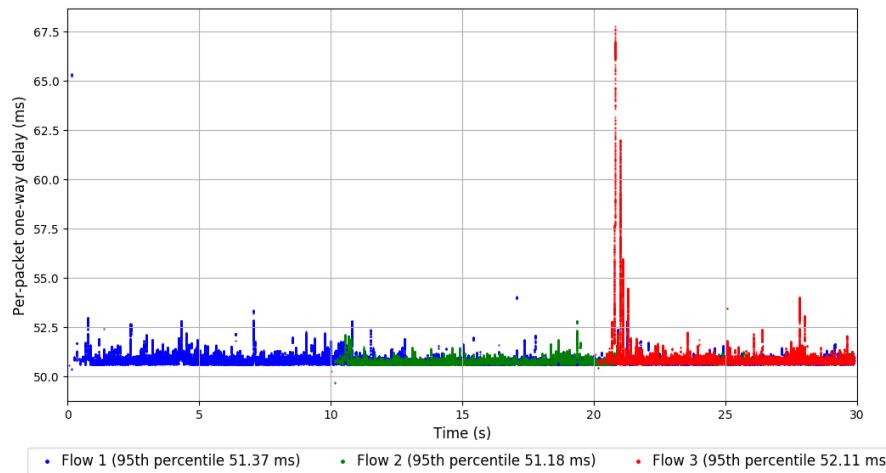
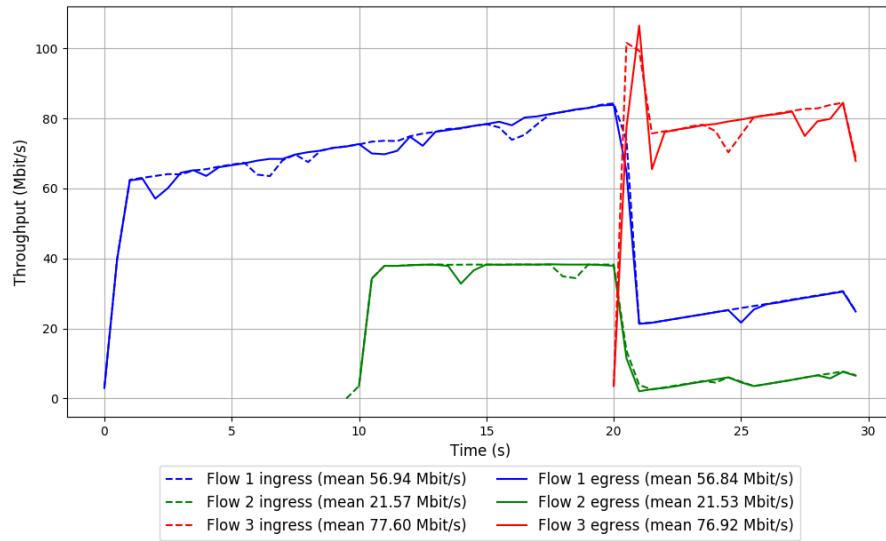
Run 9: Statistics of TCP Vegas

Start at: 2017-08-21 07:02:58

End at: 2017-08-21 07:03:28

```
# Below is generated by plot.py at 2017-08-21 10:35:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.45 Mbit/s
95th percentile per-packet one-way delay: 51.427 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 56.84 Mbit/s
95th percentile per-packet one-way delay: 51.368 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 21.53 Mbit/s
95th percentile per-packet one-way delay: 51.183 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 76.92 Mbit/s
95th percentile per-packet one-way delay: 52.114 ms
Loss rate: 1.90%
```

Run 9: Report of TCP Vegas — Data Link



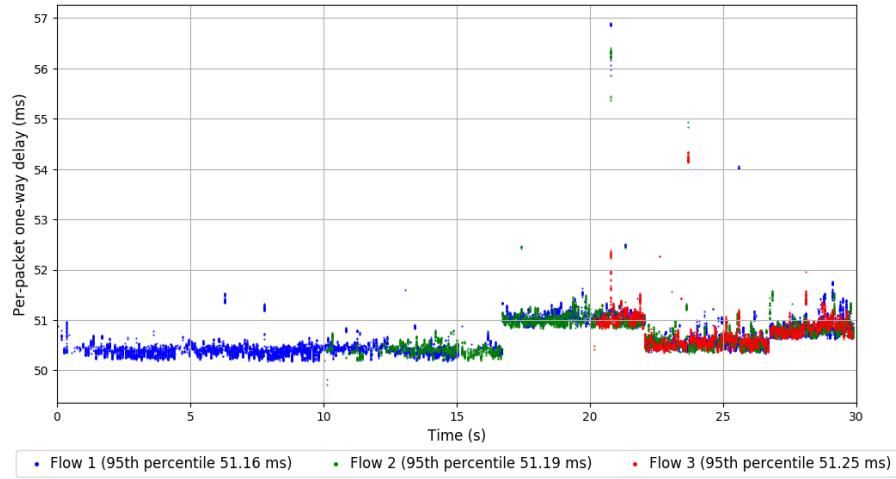
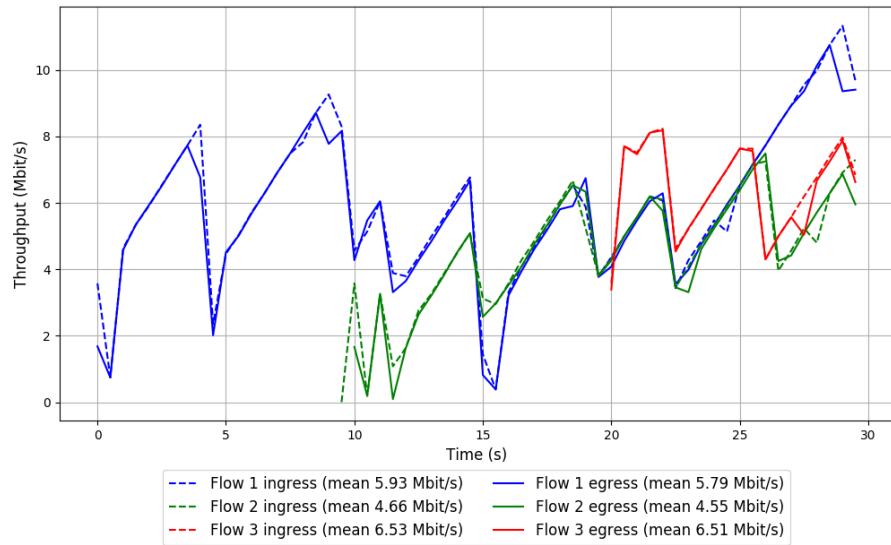
Run 10: Statistics of TCP Vegas

Start at: 2017-08-21 07:14:49

End at: 2017-08-21 07:15:19

```
# Below is generated by plot.py at 2017-08-21 10:35:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 10.96 Mbit/s
95th percentile per-packet one-way delay: 51.181 ms
Loss rate: 2.56%
-- Flow 1:
Average throughput: 5.79 Mbit/s
95th percentile per-packet one-way delay: 51.162 ms
Loss rate: 2.75%
-- Flow 2:
Average throughput: 4.55 Mbit/s
95th percentile per-packet one-way delay: 51.190 ms
Loss rate: 2.84%
-- Flow 3:
Average throughput: 6.51 Mbit/s
95th percentile per-packet one-way delay: 51.250 ms
Loss rate: 1.65%
```

Run 10: Report of TCP Vegas — Data Link



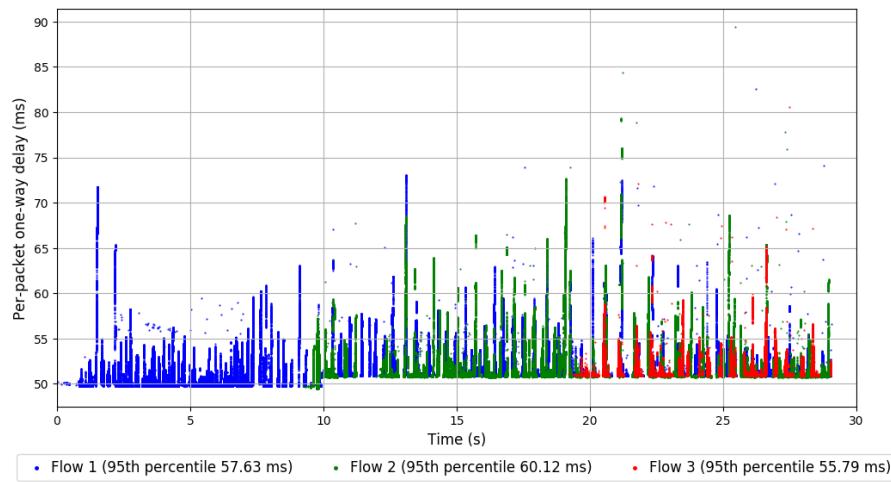
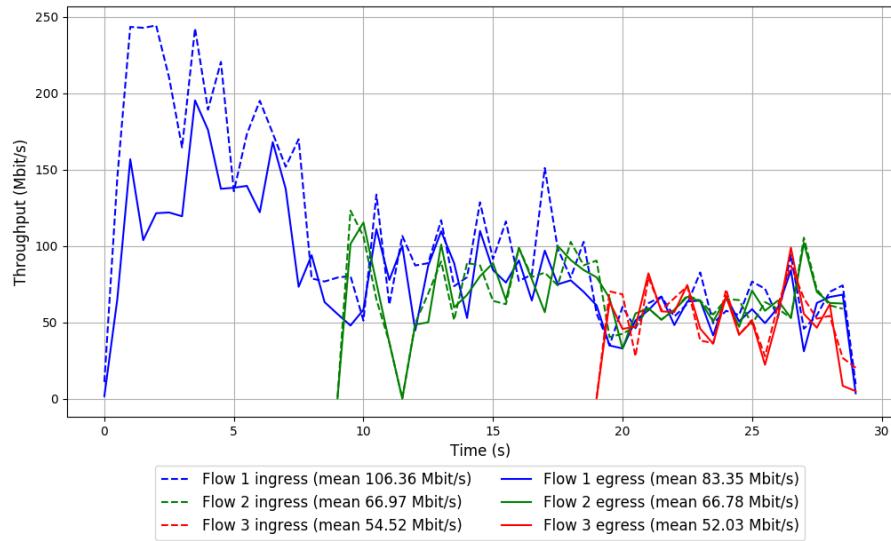
Run 1: Statistics of Verus

Start at: 2017-08-21 05:31:15

End at: 2017-08-21 05:31:45

```
# Below is generated by plot.py at 2017-08-21 10:36:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 146.42 Mbit/s
95th percentile per-packet one-way delay: 58.117 ms
Loss rate: 14.32%
-- Flow 1:
Average throughput: 83.35 Mbit/s
95th percentile per-packet one-way delay: 57.628 ms
Loss rate: 21.88%
-- Flow 2:
Average throughput: 66.78 Mbit/s
95th percentile per-packet one-way delay: 60.125 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 52.03 Mbit/s
95th percentile per-packet one-way delay: 55.794 ms
Loss rate: 5.36%
```

Run 1: Report of Verus — Data Link

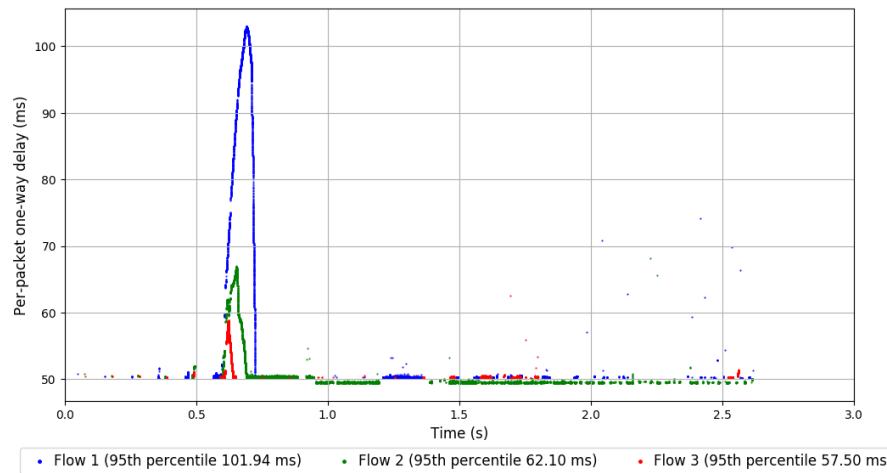
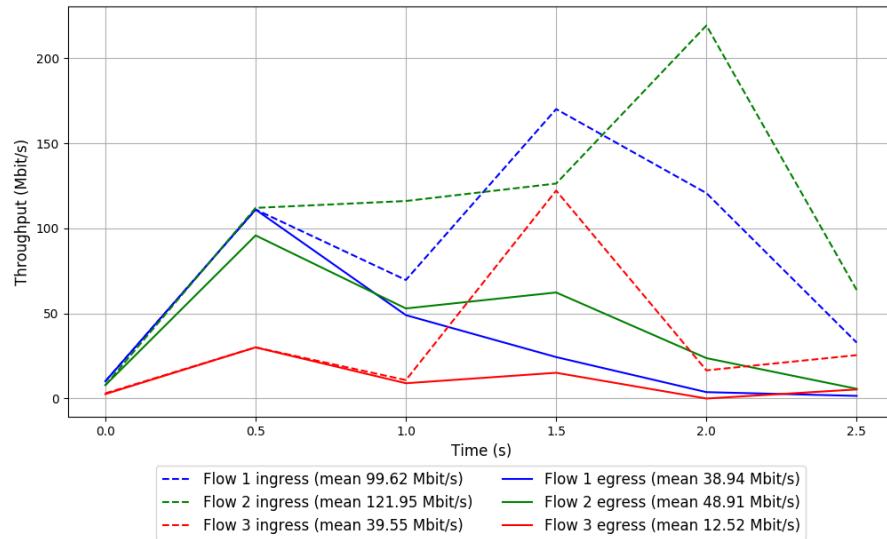


Run 2: Statistics of Verus

Start at: 2017-08-21 05:42:58

End at: 2017-08-21 05:43:28

Run 2: Report of Verus — Data Link



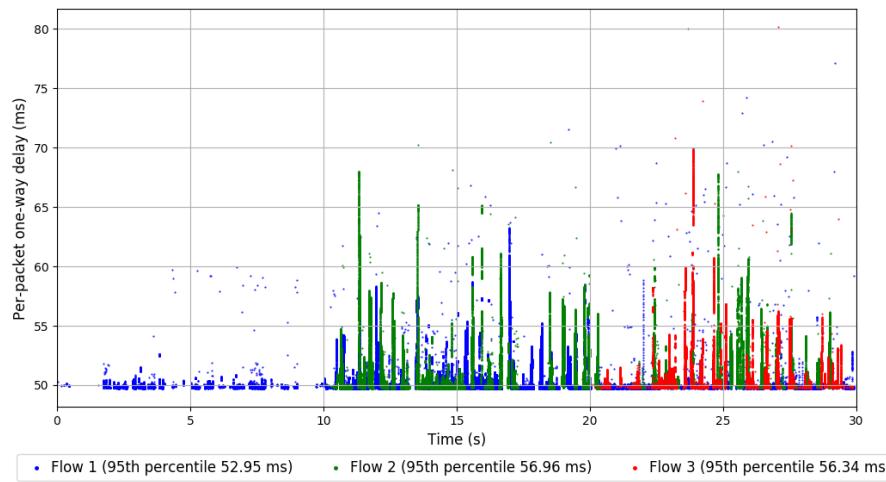
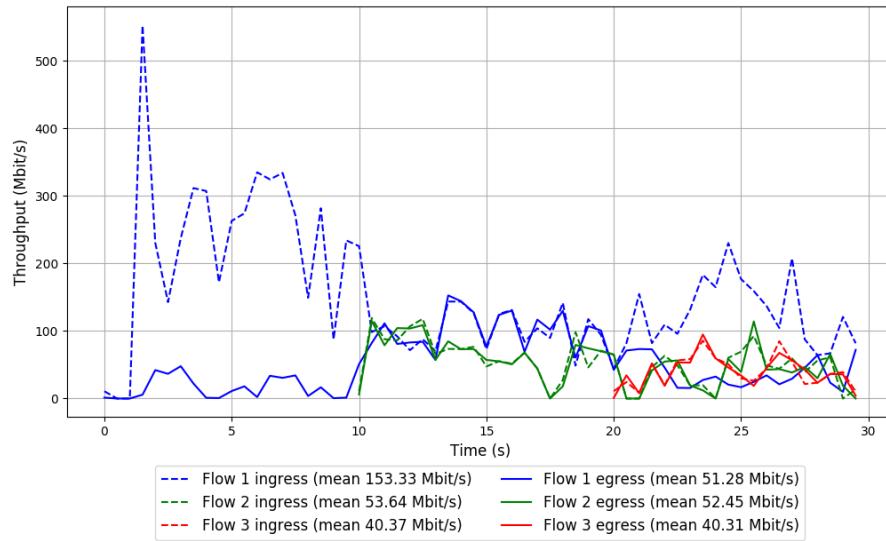
Run 3: Statistics of Verus

Start at: 2017-08-21 05:54:36

End at: 2017-08-21 05:55:06

```
# Below is generated by plot.py at 2017-08-21 10:36:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 99.14 Mbit/s
95th percentile per-packet one-way delay: 55.372 ms
Loss rate: 51.15%
-- Flow 1:
Average throughput: 51.28 Mbit/s
95th percentile per-packet one-way delay: 52.955 ms
Loss rate: 66.66%
-- Flow 2:
Average throughput: 52.45 Mbit/s
95th percentile per-packet one-way delay: 56.959 ms
Loss rate: 3.06%
-- Flow 3:
Average throughput: 40.31 Mbit/s
95th percentile per-packet one-way delay: 56.336 ms
Loss rate: 1.31%
```

Run 3: Report of Verus — Data Link



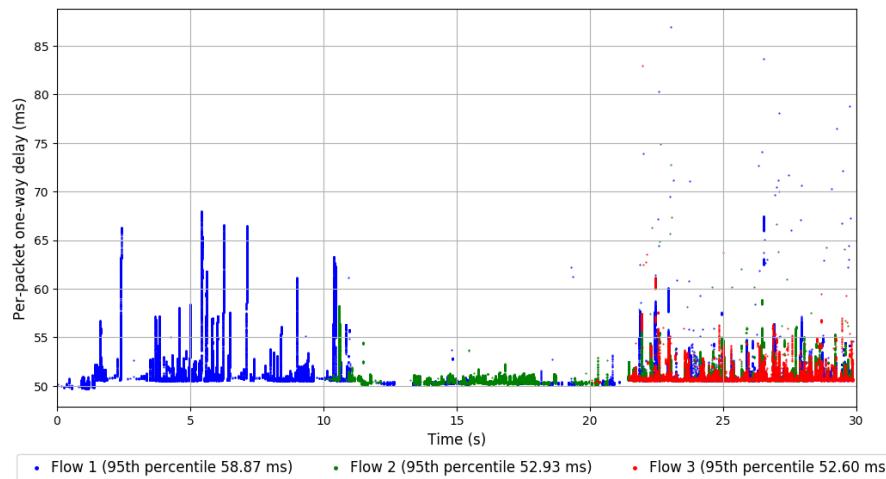
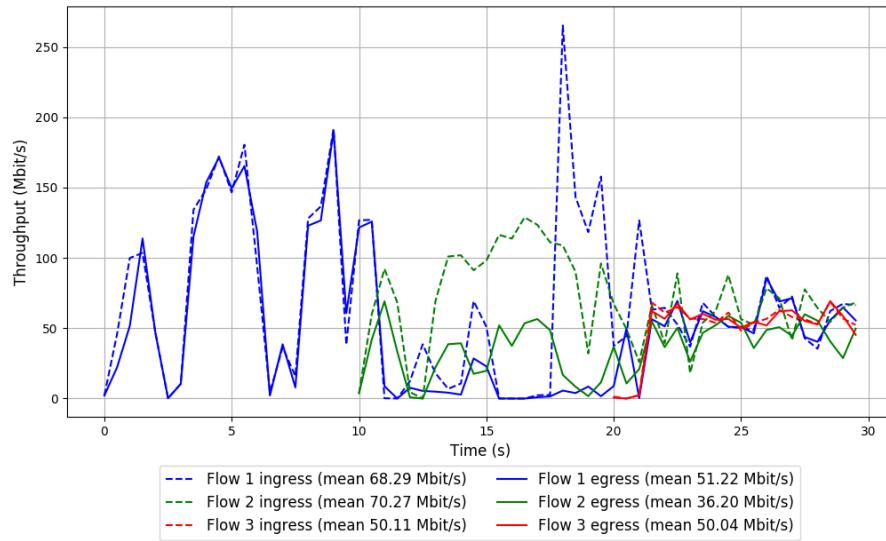
Run 4: Statistics of Verus

Start at: 2017-08-21 06:06:25

End at: 2017-08-21 06:06:55

```
# Below is generated by plot.py at 2017-08-21 10:36:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.72 Mbit/s
95th percentile per-packet one-way delay: 56.292 ms
Loss rate: 30.57%
-- Flow 1:
Average throughput: 51.22 Mbit/s
95th percentile per-packet one-way delay: 58.874 ms
Loss rate: 25.25%
-- Flow 2:
Average throughput: 36.20 Mbit/s
95th percentile per-packet one-way delay: 52.933 ms
Loss rate: 48.75%
-- Flow 3:
Average throughput: 50.04 Mbit/s
95th percentile per-packet one-way delay: 52.602 ms
Loss rate: 1.25%
```

Run 4: Report of Verus — Data Link



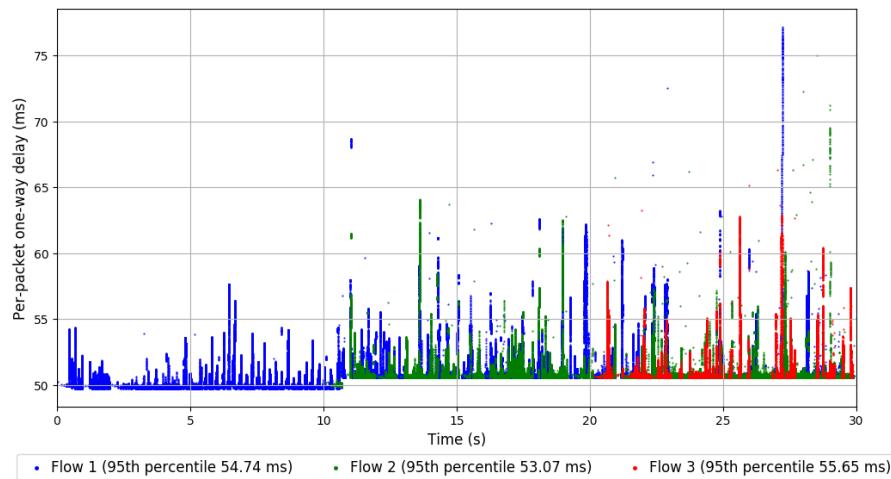
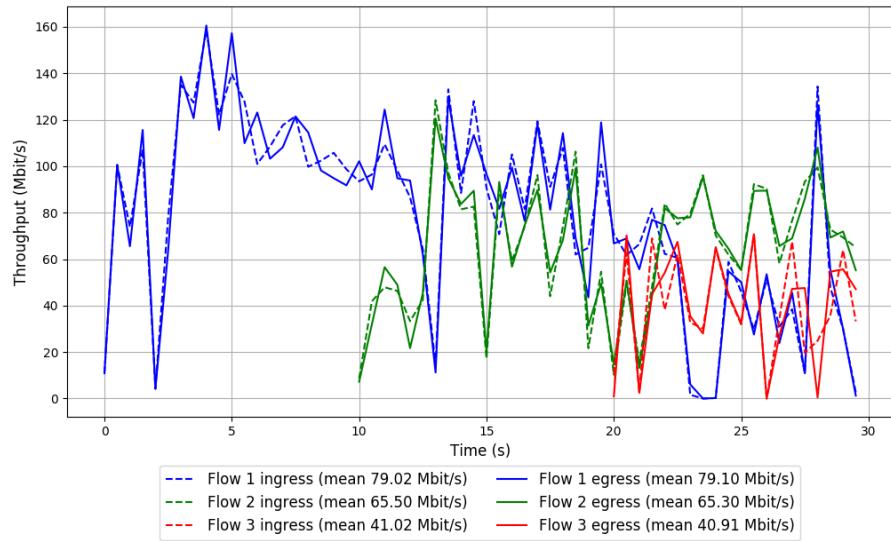
Run 5: Statistics of Verus

Start at: 2017-08-21 06:18:15

End at: 2017-08-21 06:18:45

```
# Below is generated by plot.py at 2017-08-21 10:36:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 135.79 Mbit/s
95th percentile per-packet one-way delay: 54.504 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 79.10 Mbit/s
95th percentile per-packet one-way delay: 54.738 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 65.30 Mbit/s
95th percentile per-packet one-way delay: 53.068 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 40.91 Mbit/s
95th percentile per-packet one-way delay: 55.649 ms
Loss rate: 0.28%
```

Run 5: Report of Verus — Data Link

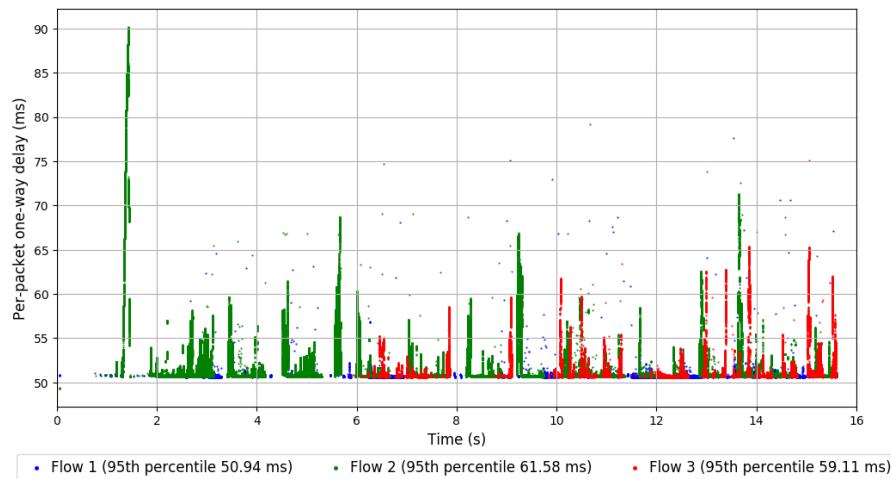
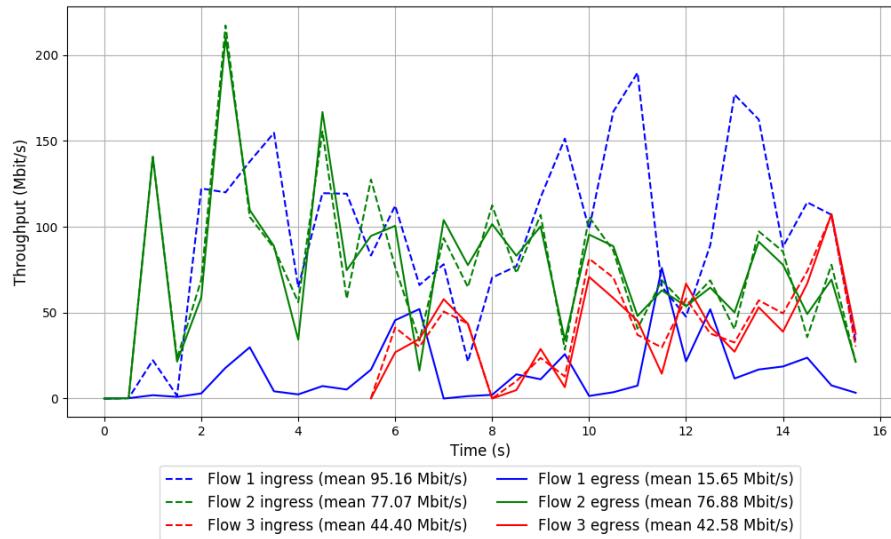


Run 6: Statistics of Verus

Start at: 2017-08-21 06:30:15

End at: 2017-08-21 06:30:45

Run 6: Report of Verus — Data Link

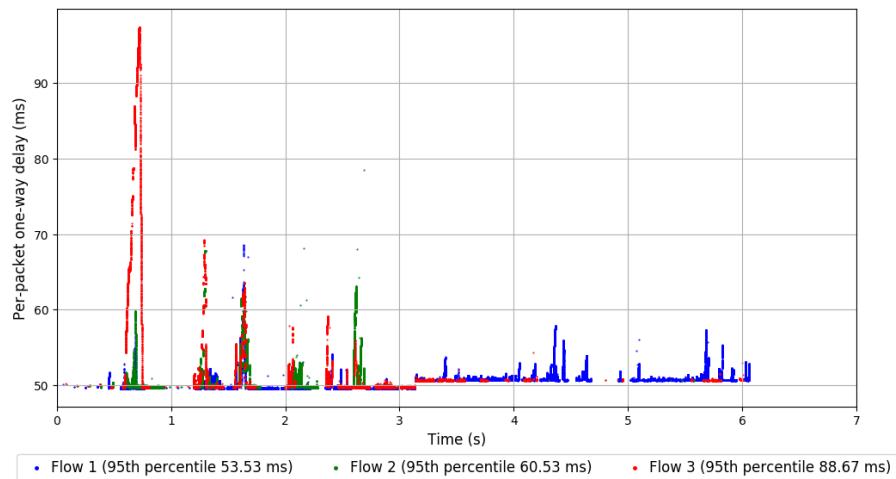
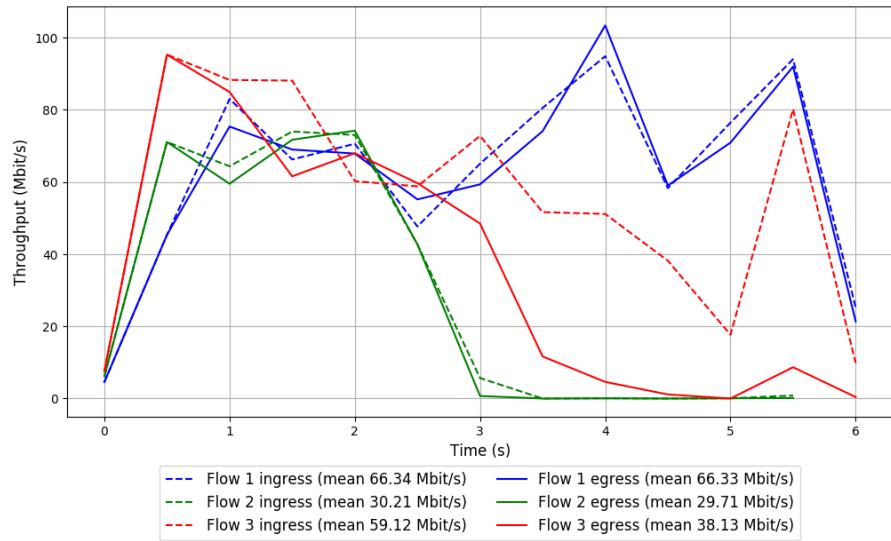


Run 7: Statistics of Verus

Start at: 2017-08-21 06:42:39

End at: 2017-08-21 06:43:09

Run 7: Report of Verus — Data Link

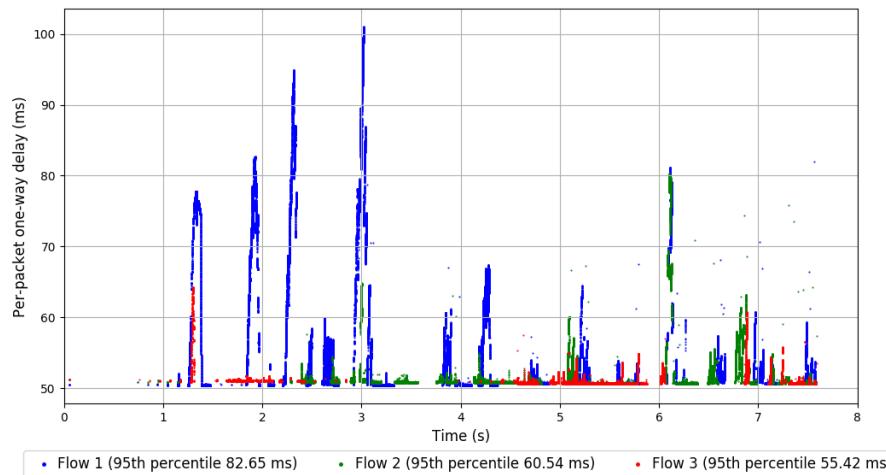
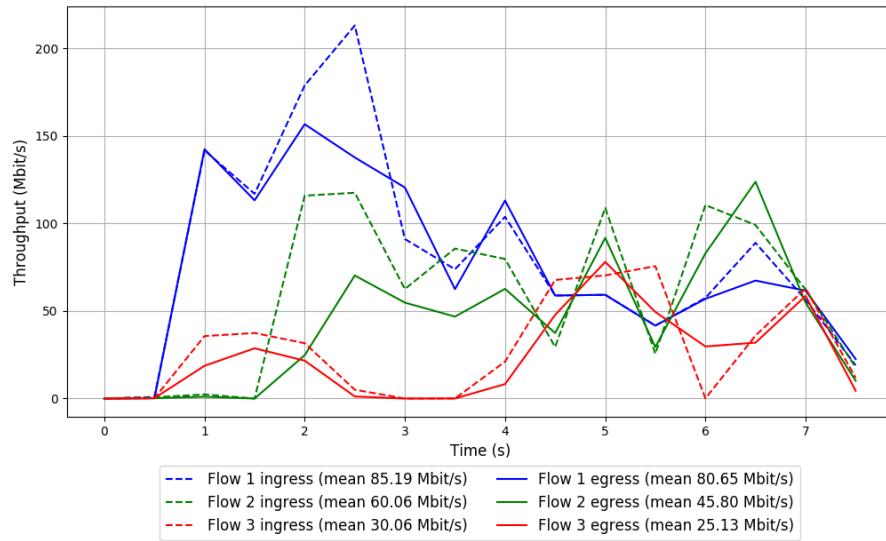


Run 8: Statistics of Verus

Start at: 2017-08-21 06:54:39

End at: 2017-08-21 06:55:09

Run 8: Report of Verus — Data Link



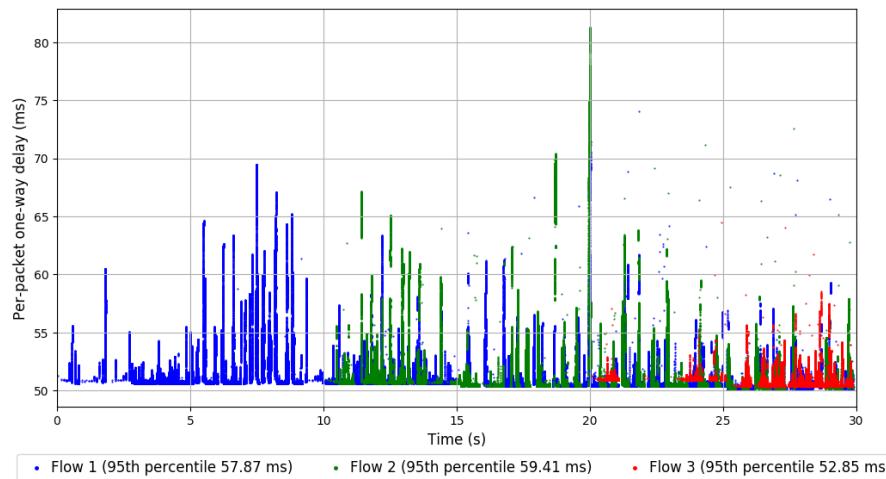
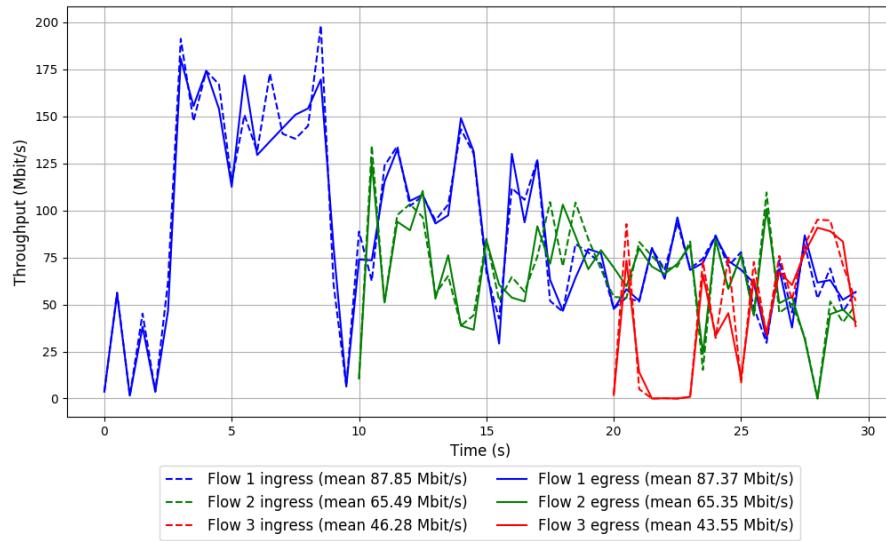
Run 9: Statistics of Verus

Start at: 2017-08-21 07:06:21

End at: 2017-08-21 07:06:51

```
# Below is generated by plot.py at 2017-08-21 10:37:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 145.00 Mbit/s
95th percentile per-packet one-way delay: 57.875 ms
Loss rate: 1.52%
-- Flow 1:
Average throughput: 87.37 Mbit/s
95th percentile per-packet one-way delay: 57.870 ms
Loss rate: 0.91%
-- Flow 2:
Average throughput: 65.35 Mbit/s
95th percentile per-packet one-way delay: 59.407 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 43.55 Mbit/s
95th percentile per-packet one-way delay: 52.847 ms
Loss rate: 7.36%
```

Run 9: Report of Verus — Data Link

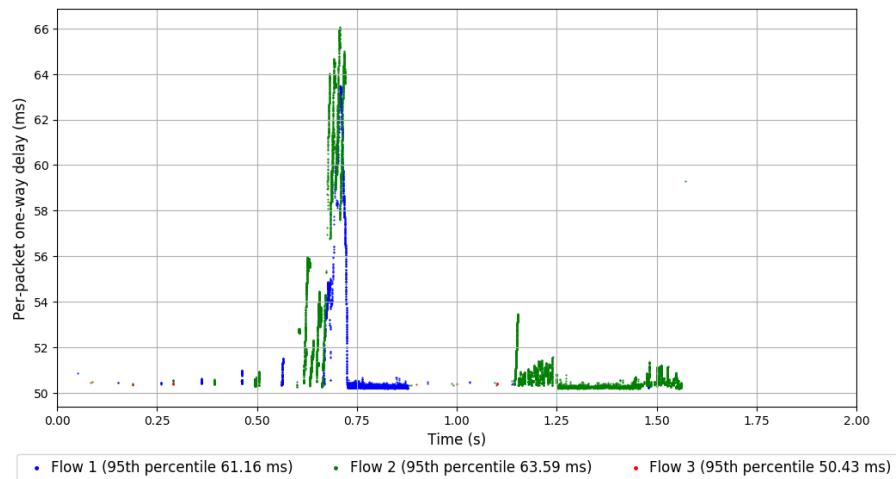
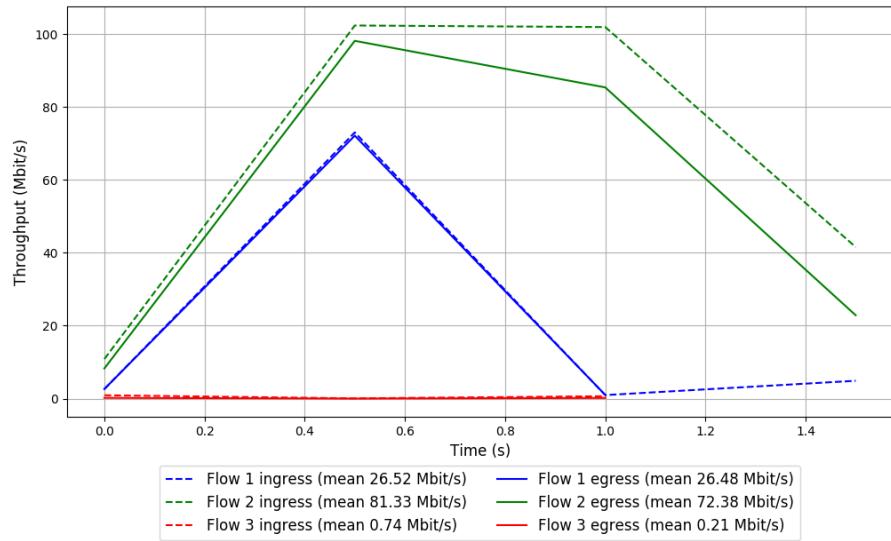


Run 10: Statistics of Verus

Start at: 2017-08-21 07:18:04

End at: 2017-08-21 07:18:34

Run 10: Report of Verus — Data Link

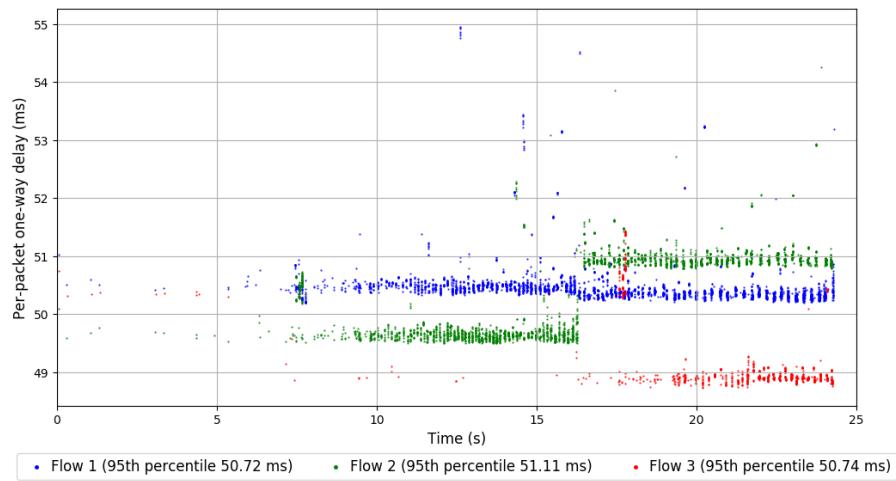
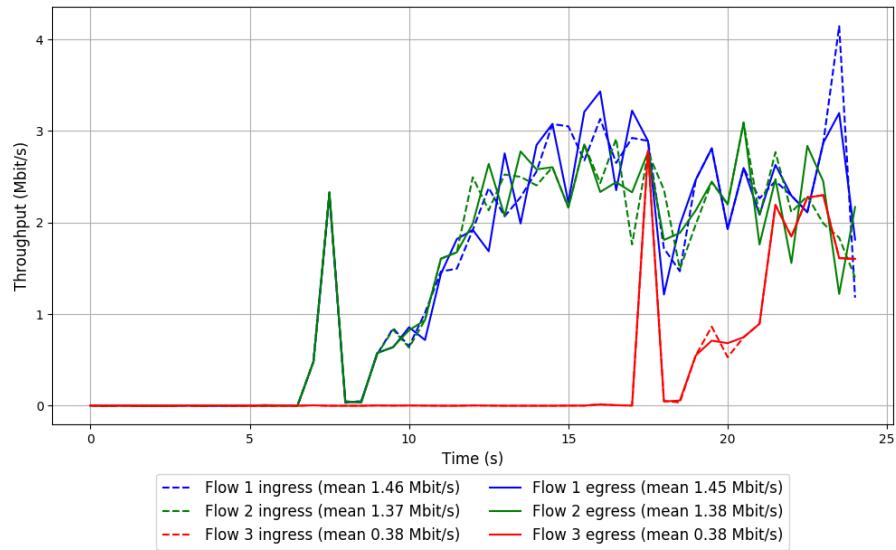


```
Run 1: Statistics of WebRTC media

Start at: 2017-08-21 05:26:34
End at: 2017-08-21 05:27:04

# Below is generated by plot.py at 2017-08-21 10:37:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.21 Mbit/s
95th percentile per-packet one-way delay: 51.043 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 1.45 Mbit/s
95th percentile per-packet one-way delay: 50.715 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 1.38 Mbit/s
95th percentile per-packet one-way delay: 51.106 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 50.740 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



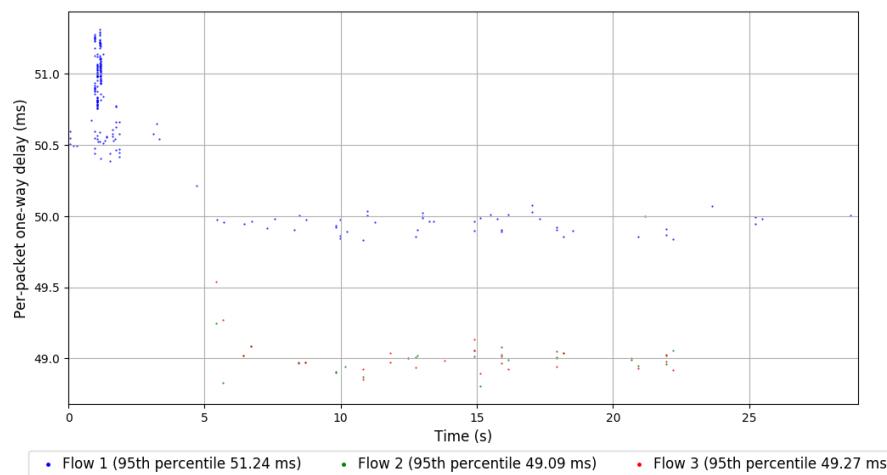
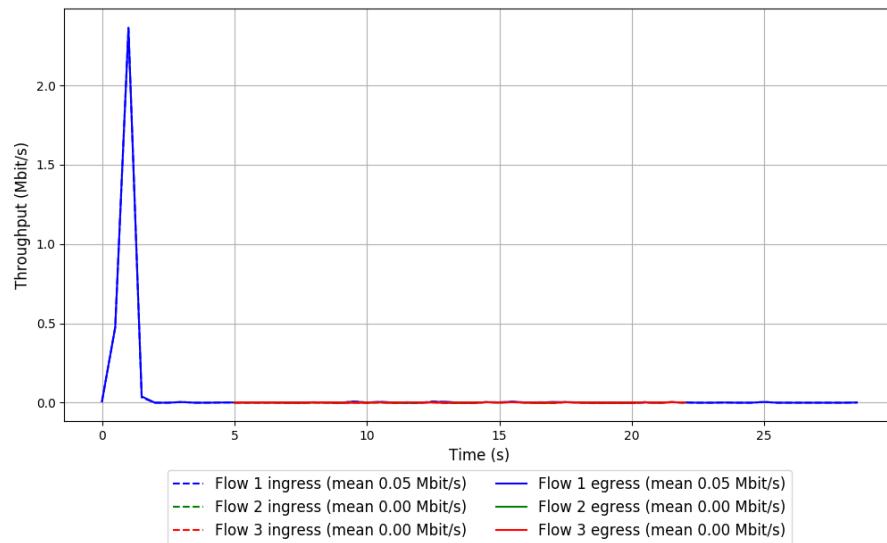
Run 2: Statistics of WebRTC media

Start at: 2017-08-21 05:38:21

End at: 2017-08-21 05:38:51

```
# Below is generated by plot.py at 2017-08-21 10:37:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 51.230 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 51.240 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 49.085 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 49.270 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-08-21 05:49:57

End at: 2017-08-21 05:50:27

Run 3: Report of WebRTC media — Data Link

Figure is missing

Figure is missing

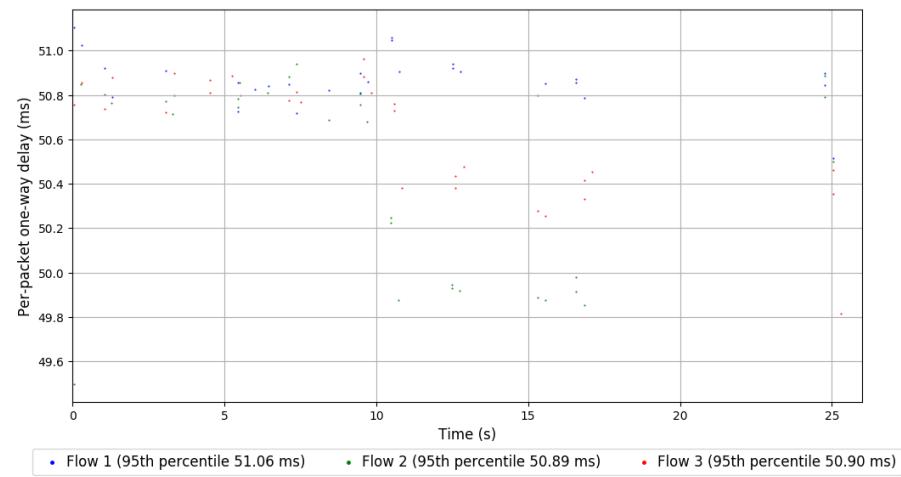
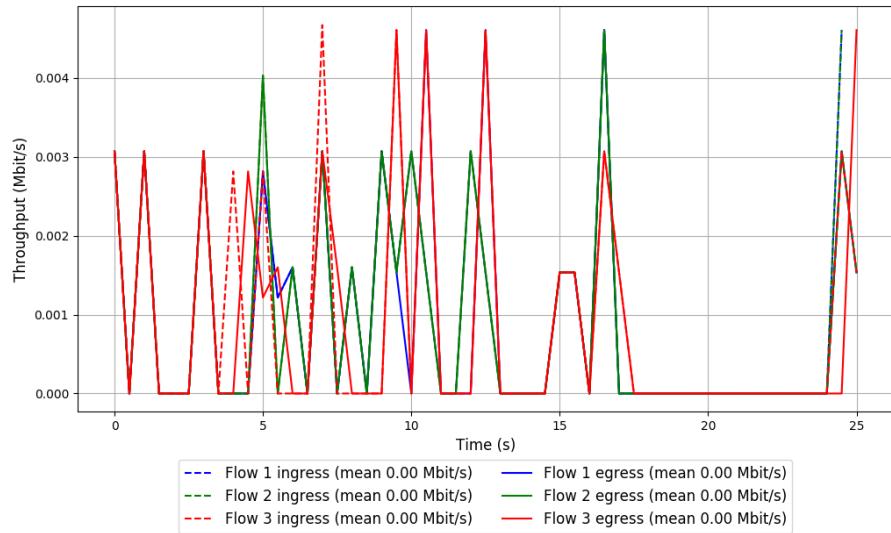
Run 4: Statistics of WebRTC media

Start at: 2017-08-21 06:01:43

End at: 2017-08-21 06:02:13

```
# Below is generated by plot.py at 2017-08-21 10:37:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 50.962 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 51.060 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 50.886 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 50.900 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link

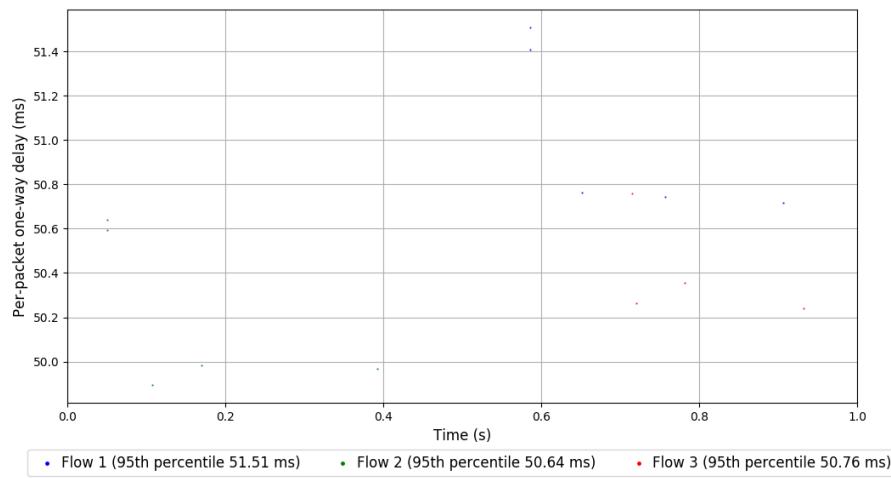
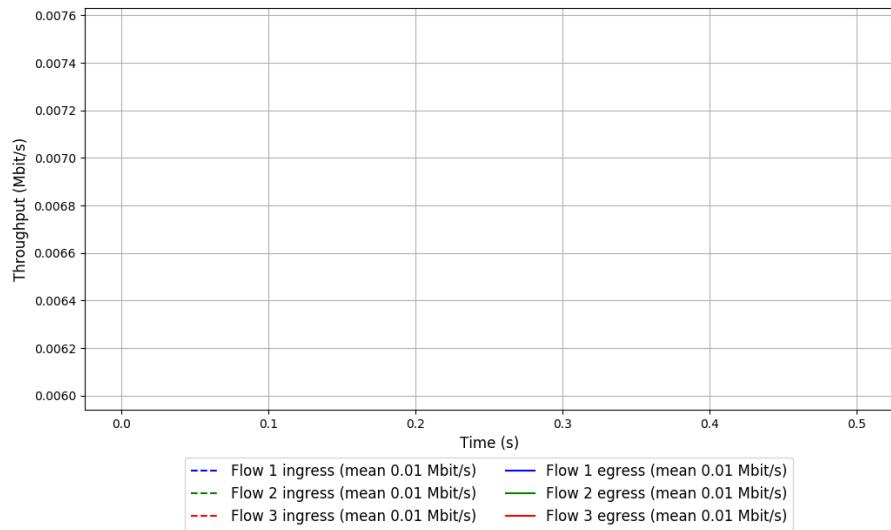


Run 5: Statistics of WebRTC media

Start at: 2017-08-21 06:13:28

End at: 2017-08-21 06:13:58

Run 5: Report of WebRTC media — Data Link

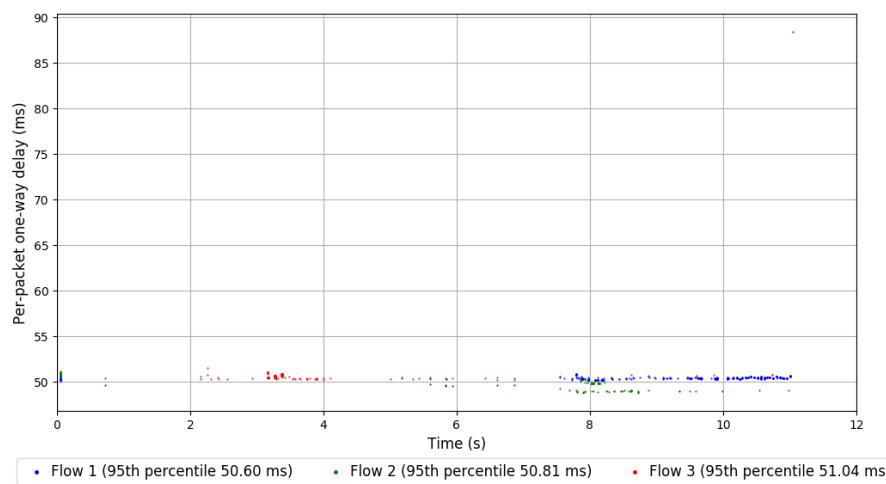
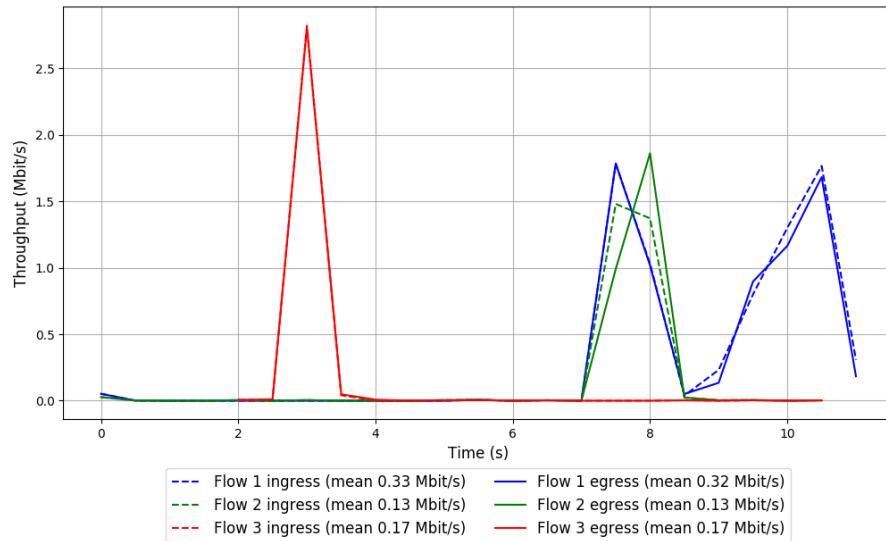


Run 6: Statistics of WebRTC media

Start at: 2017-08-21 06:25:40

End at: 2017-08-21 06:26:10

Run 6: Report of WebRTC media — Data Link

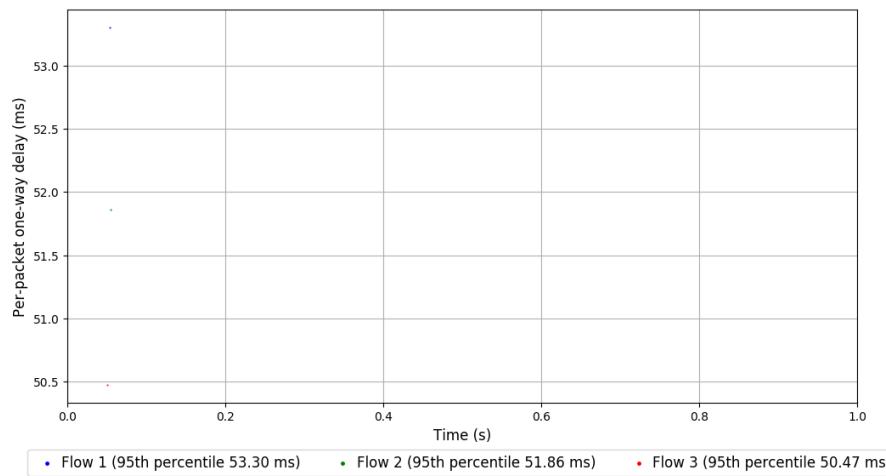
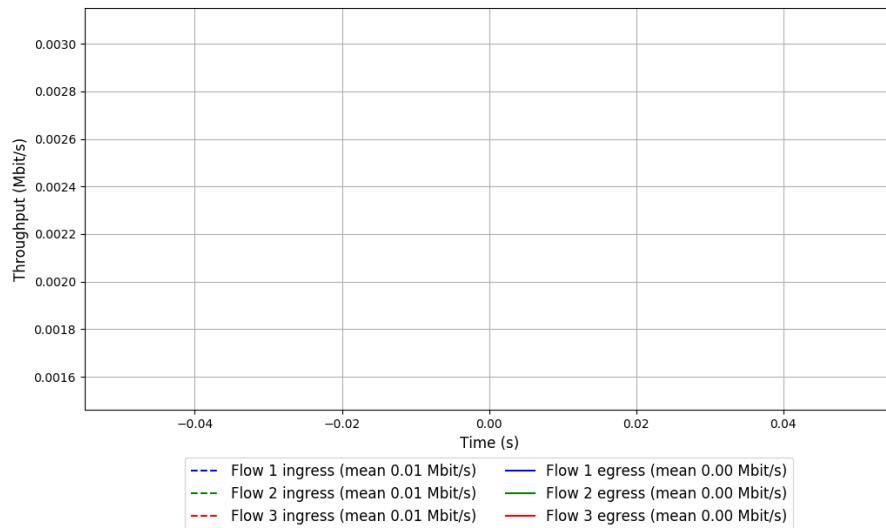


Run 7: Statistics of WebRTC media

Start at: 2017-08-21 06:37:58

End at: 2017-08-21 06:38:28

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-08-21 06:49:56

End at: 2017-08-21 06:50:26

Run 8: Report of WebRTC media — Data Link

Figure is missing

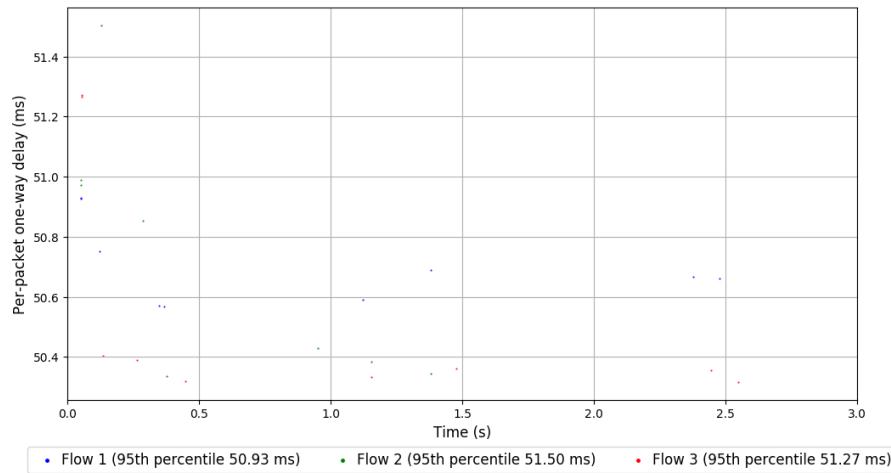
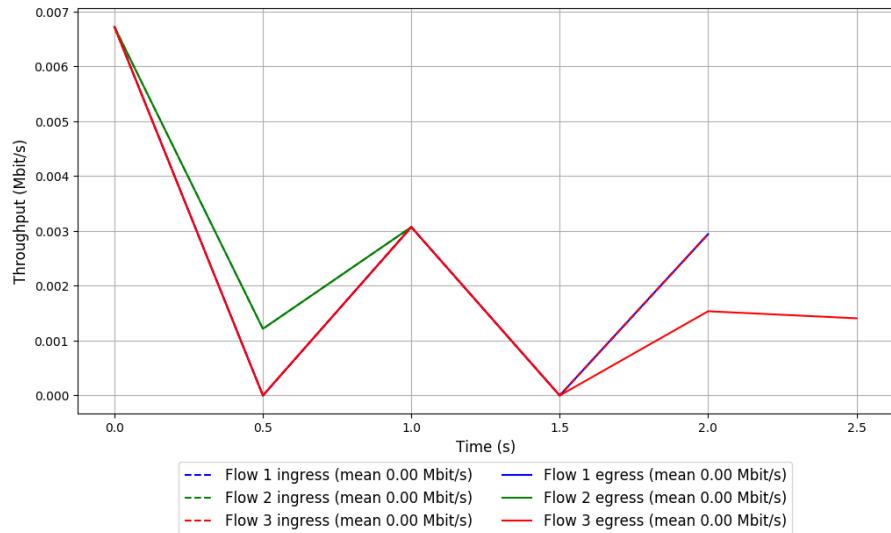
Figure is missing

Run 9: Statistics of WebRTC media

Start at: 2017-08-21 07:01:39

End at: 2017-08-21 07:02:09

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-08-21 07:13:30

End at: 2017-08-21 07:14:00

```
# Below is generated by plot.py at 2017-08-21 10:37:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 50.960 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 50.963 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 51.004 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 49.366 ms
Loss rate: 0.00%
```

Run 10: Report of WebRTC media — Data Link

