

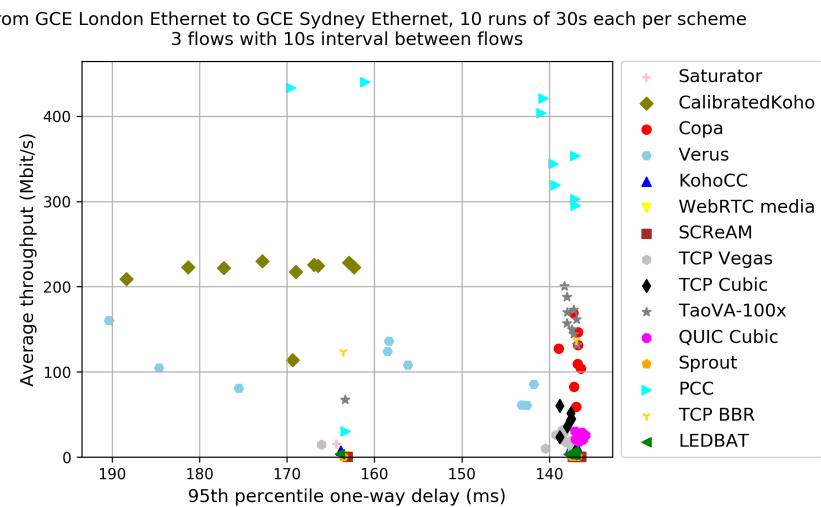
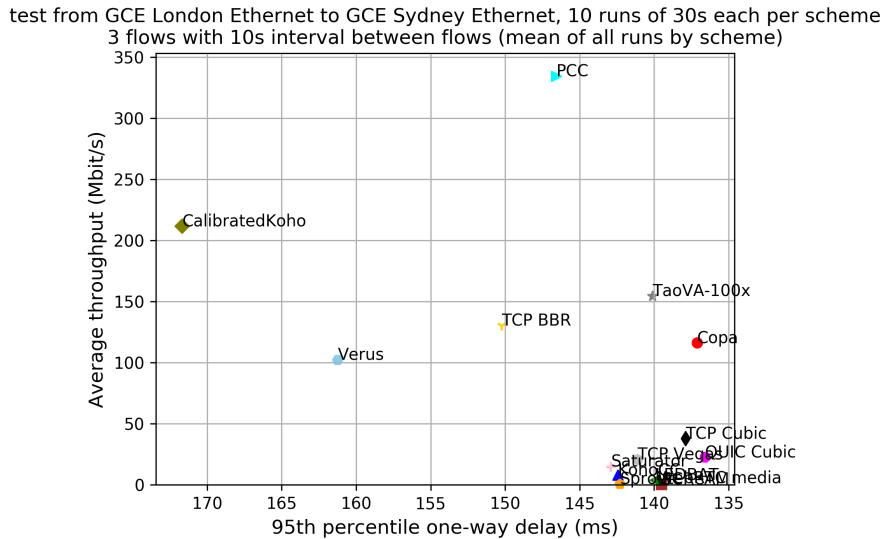
## Pantheon Report

Generated at 2017-08-12 18:08:28 (UTC).  
Data path: GCE London Ethernet (*remote*) → GCE Sydney 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 @ 6f2ef6e088d91066a9f023df375eee2665089ce
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
```



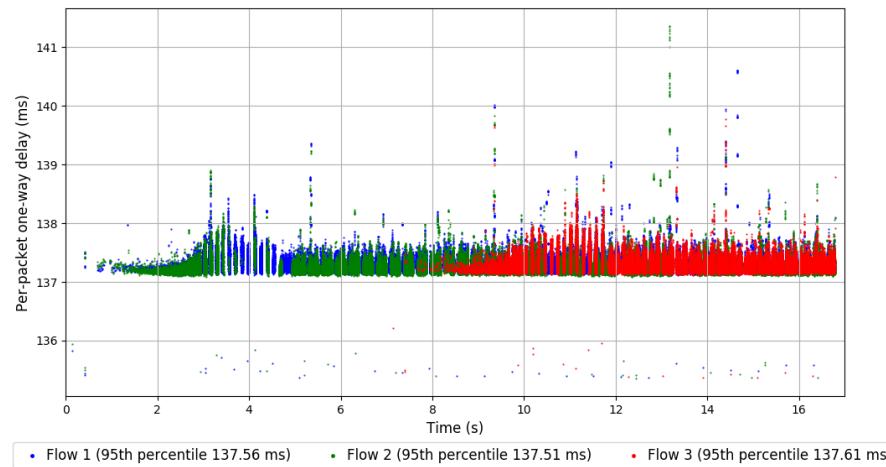
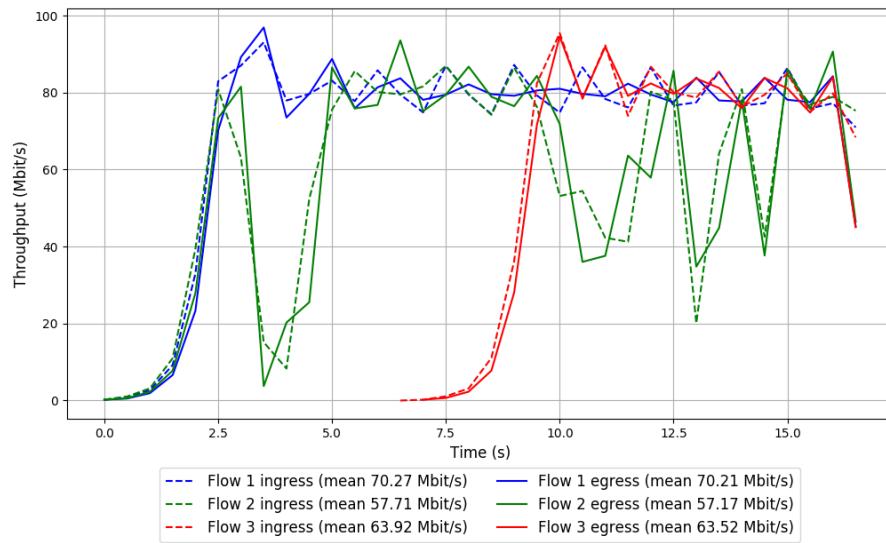
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	2	67.53	65.19	59.69	150.21	150.26	150.06	1.04	1.56	3.80
CalibratedKoho	10	161.84	70.28	9.79	170.71	165.08	144.76	6.34	5.51	10.73
Copa	8	77.35	45.67	26.54	136.71	137.49	137.33	0.61	1.09	2.51
TCP Cubic	7	15.70	24.15	19.04	137.21	137.90	138.41	2.43	2.91	4.44
KohoCC	10	4.12	4.02	3.78	142.38	142.45	142.40	1.59	2.20	3.45
LEDBAT	10	2.20	1.97	1.24	139.94	139.94	139.75	1.88	2.52	5.68
PCC	10	239.23	103.91	82.65	147.58	143.14	154.68	7.82	3.26	4.95
QUIC Cubic	10	3.79	21.51	14.18	136.69	136.27	136.37	0.13	0.27	4.95
Saturator	10	8.21	7.45	6.74	142.81	143.03	142.97	2.31	7.34	13.42
SCReAM	10	0.22	0.22	0.22	136.09	139.00	136.48	0.84	1.28	2.63
Sprout	10	0.40	0.39	0.43	142.26	142.14	142.11	0.84	0.85	1.92
TaoVA-100x	10	147.63	81.24	55.89	139.70	140.02	141.18	0.33	1.16	3.76
TCP Vegas	10	12.99	5.33	13.35	140.32	140.32	141.79	1.70	2.37	3.93
Verus	9	66.18	37.97	33.24	165.98	149.81	147.60	12.28	12.93	13.90
WebRTC media	10	0.19	1.23	0.20	139.83	136.97	140.12	0.13	1.81	9.53

Run 1: Statistics of TCP BBR

Start at: 2017-08-12 12:38:53

End at: 2017-08-12 12:39:23

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

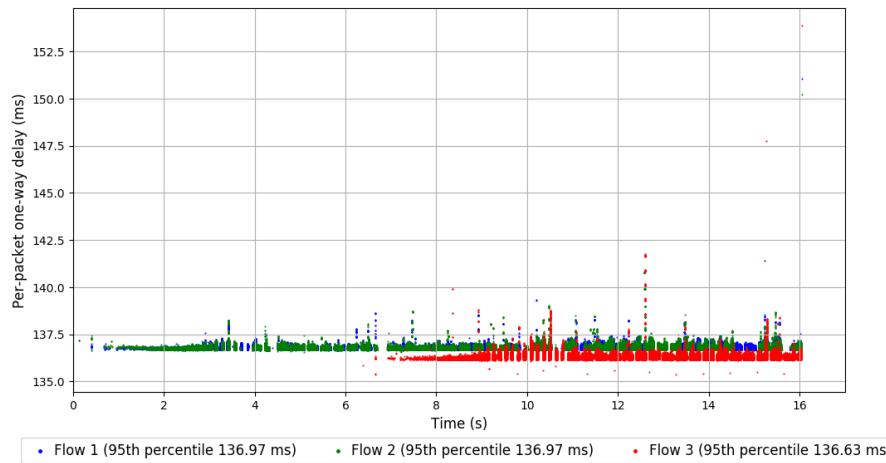
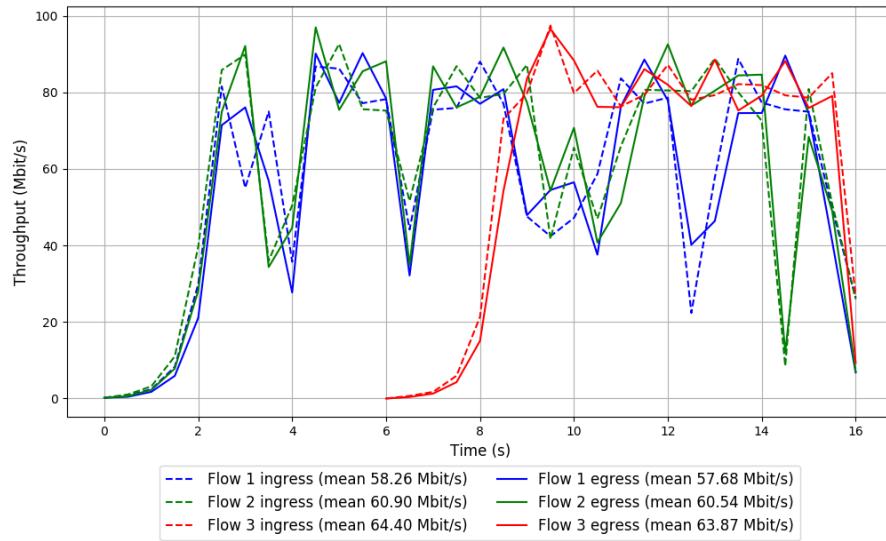


Run 2: Statistics of TCP BBR

Start at: 2017-08-12 12:52:58

End at: 2017-08-12 12:53:28

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

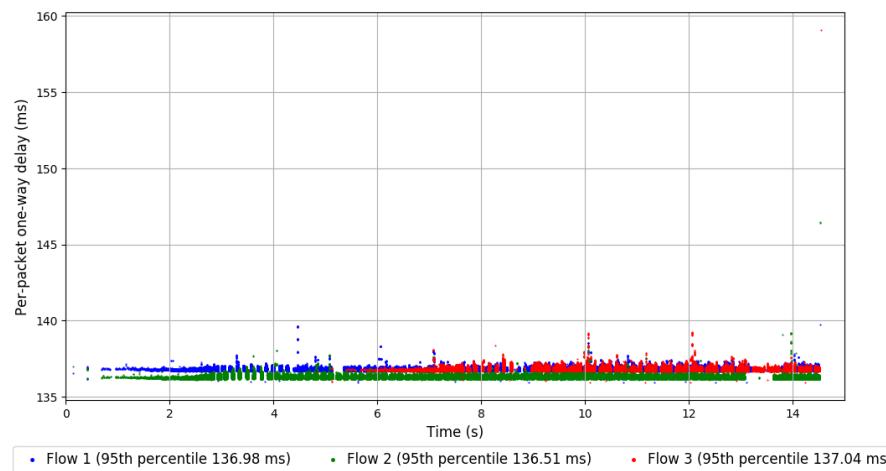
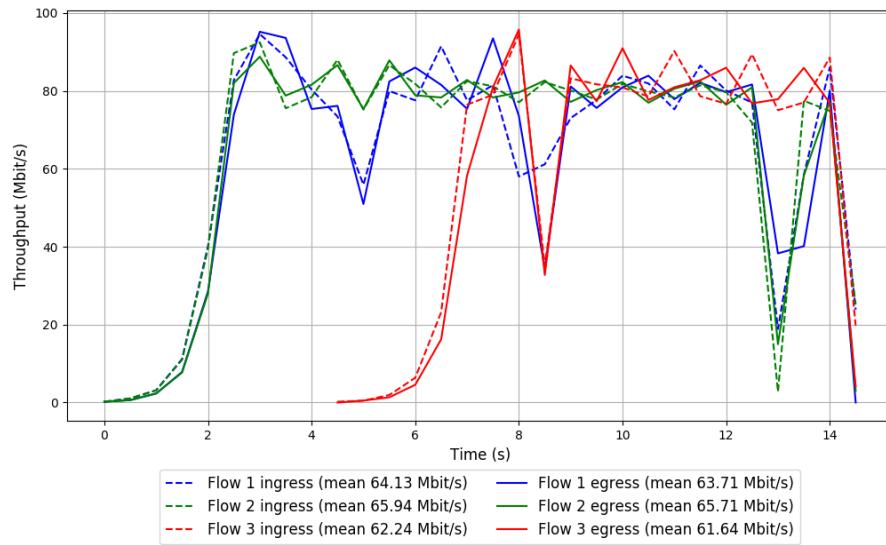


Run 3: Statistics of TCP BBR

Start at: 2017-08-12 13:06:48

End at: 2017-08-12 13:07:18

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

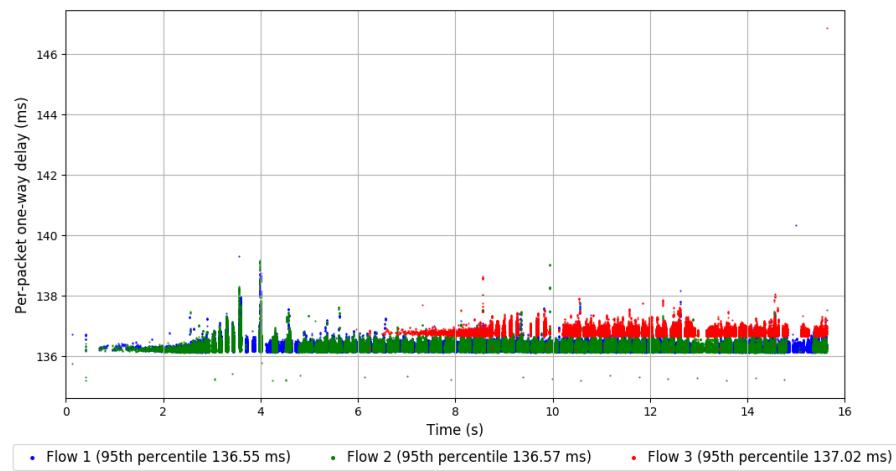
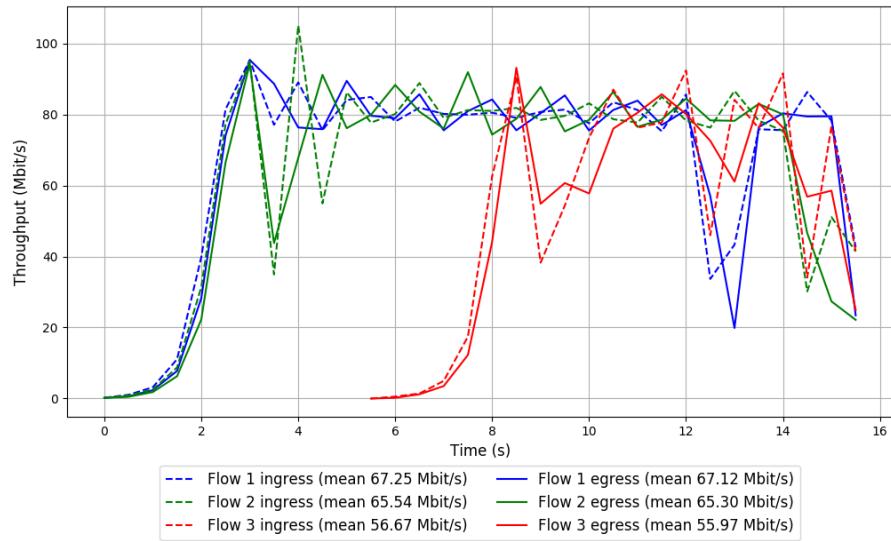


Run 4: Statistics of TCP BBR

Start at: 2017-08-12 13:20:39

End at: 2017-08-12 13:21:09

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



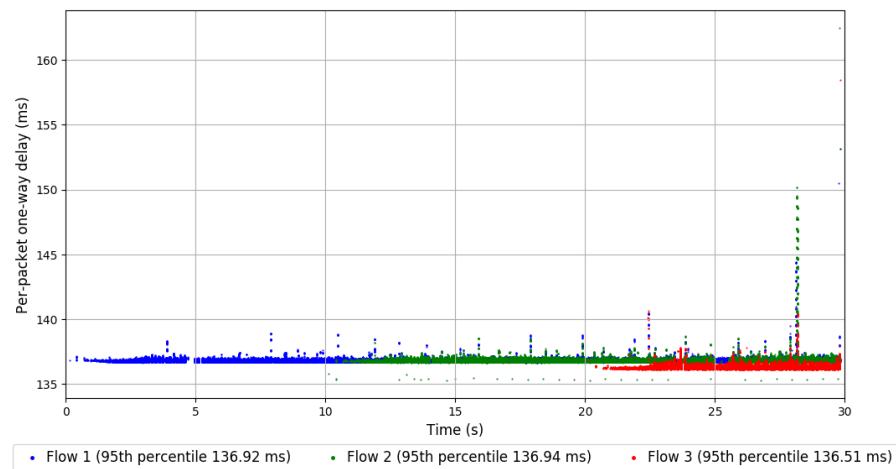
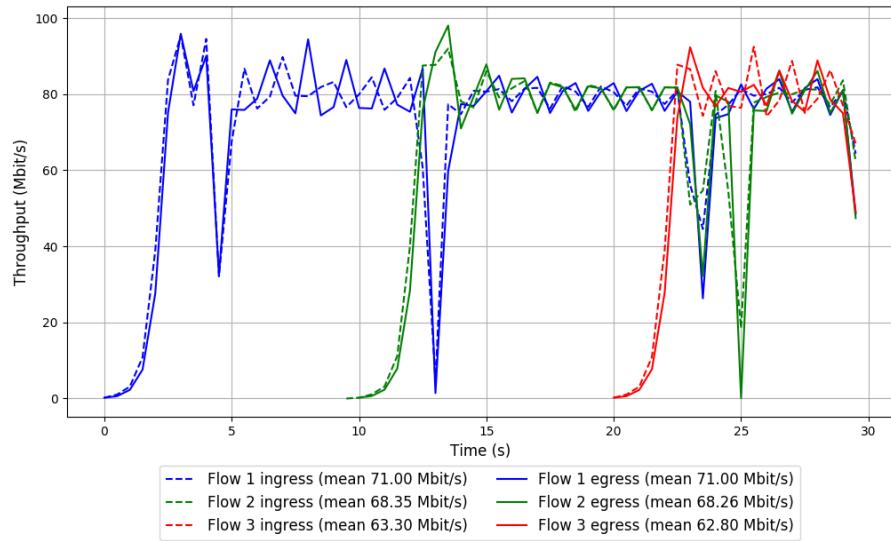
Run 5: Statistics of TCP BBR

Start at: 2017-08-12 13:35:08

End at: 2017-08-12 13:35:38

```
# Below is generated by plot.py at 2017-08-12 17:46:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 136.77 Mbit/s
95th percentile per-packet one-way delay: 136.917 ms
Loss rate: 1.47%
-- Flow 1:
Average throughput: 71.00 Mbit/s
95th percentile per-packet one-way delay: 136.916 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 68.26 Mbit/s
95th percentile per-packet one-way delay: 136.944 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 62.80 Mbit/s
95th percentile per-packet one-way delay: 136.506 ms
Loss rate: 3.50%
```

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

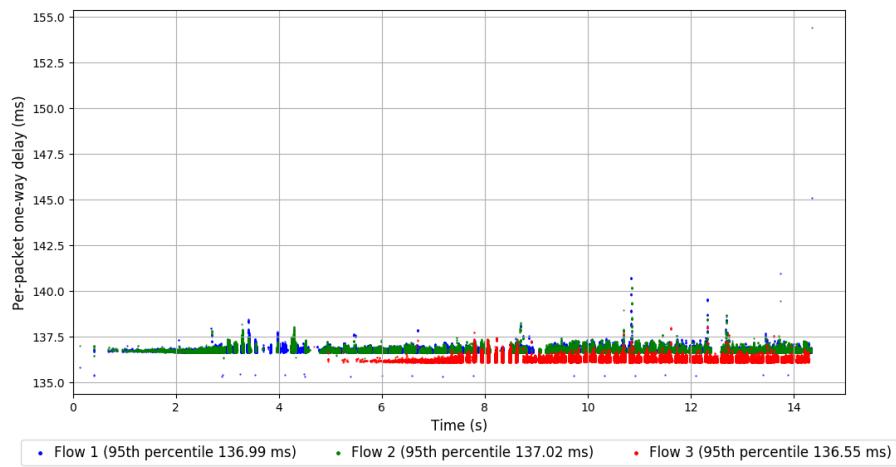
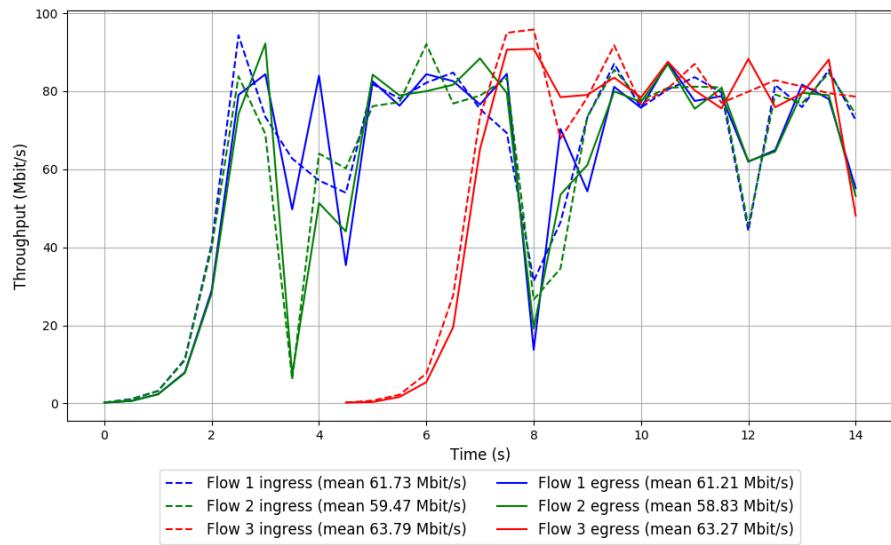


Run 6: Statistics of TCP BBR

Start at: 2017-08-12 13:49:00

End at: 2017-08-12 13:49:30

## Run 6: Report of TCP BBR — Data Link



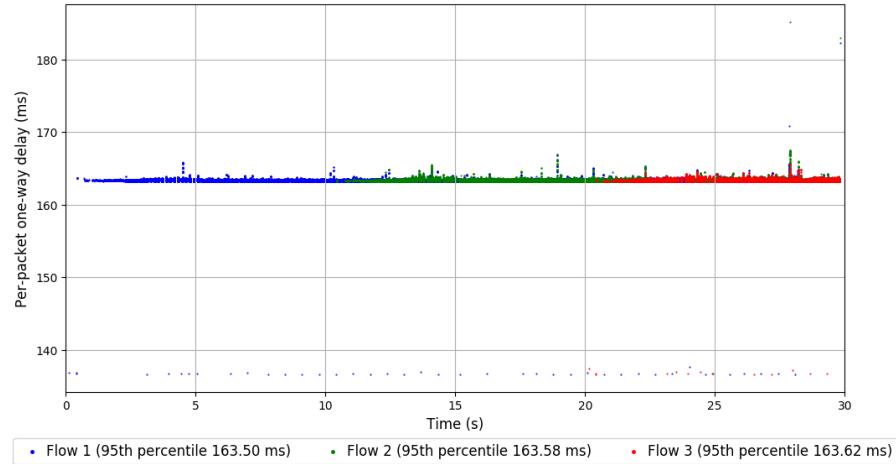
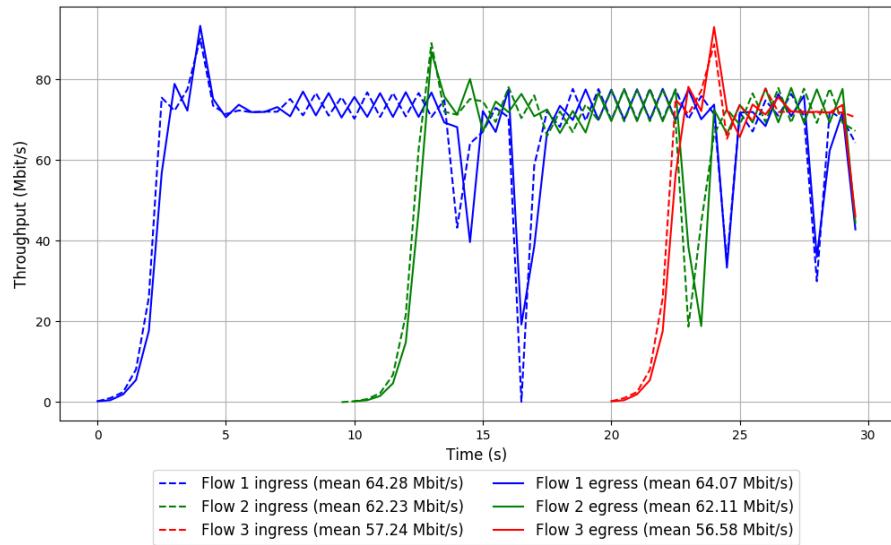
Run 7: Statistics of TCP BBR

Start at: 2017-08-12 14:02:09

End at: 2017-08-12 14:02:39

```
# Below is generated by plot.py at 2017-08-12 17:47:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 123.60 Mbit/s
95th percentile per-packet one-way delay: 163.552 ms
Loss rate: 1.81%
-- Flow 1:
Average throughput: 64.07 Mbit/s
95th percentile per-packet one-way delay: 163.505 ms
Loss rate: 1.19%
-- Flow 2:
Average throughput: 62.11 Mbit/s
95th percentile per-packet one-way delay: 163.584 ms
Loss rate: 1.71%
-- Flow 3:
Average throughput: 56.58 Mbit/s
95th percentile per-packet one-way delay: 163.617 ms
Loss rate: 4.10%
```

### Run 7: Report of TCP BBR — Data Link

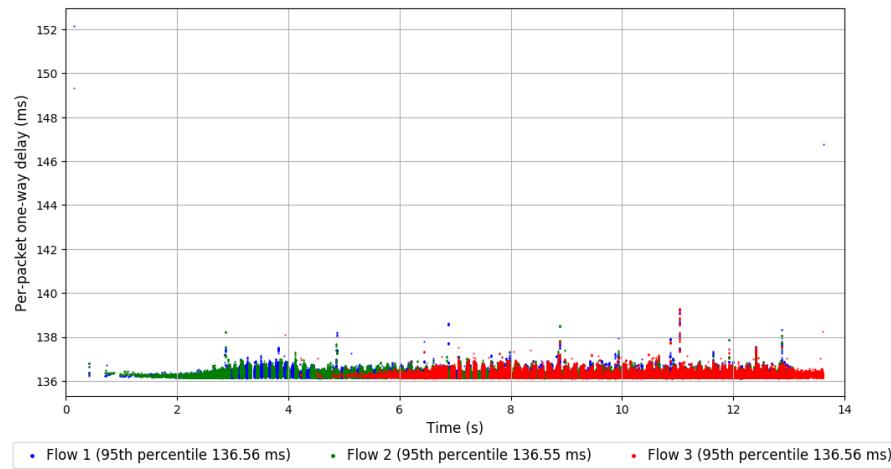
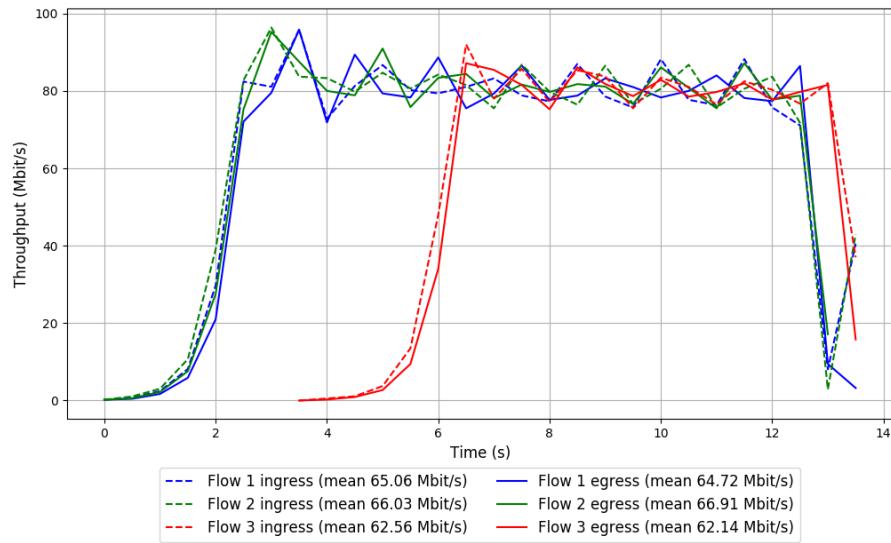


Run 8: Statistics of TCP BBR

Start at: 2017-08-12 14:15:53

End at: 2017-08-12 14:16:23

### Run 8: Report of TCP BBR — Data Link

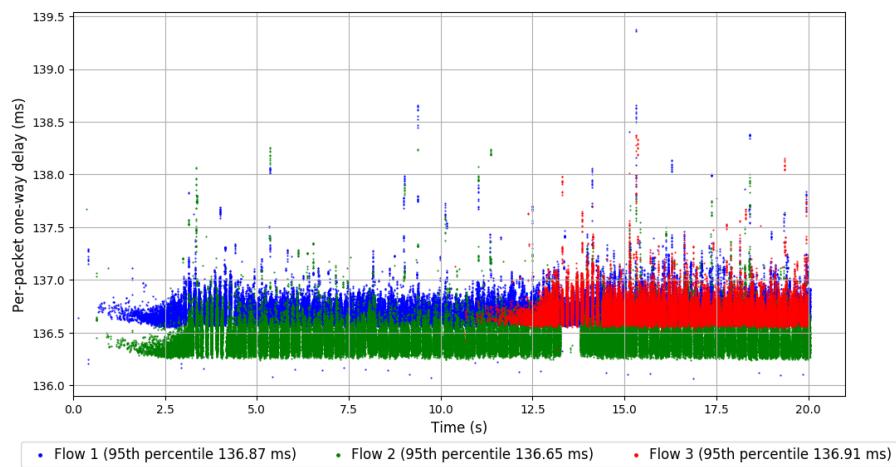
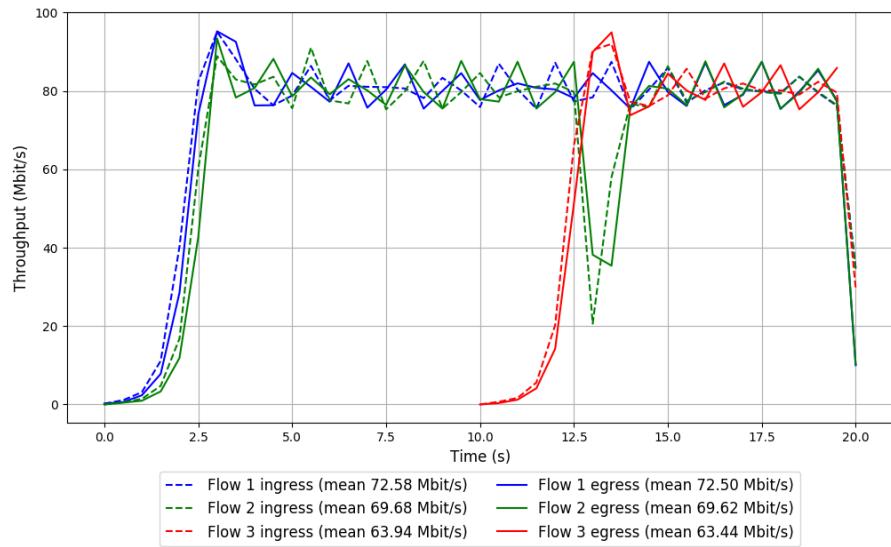


Run 9: Statistics of TCP BBR

Start at: 2017-08-12 14:29:49

End at: 2017-08-12 14:30:19

## Run 9: Report of TCP BBR — Data Link

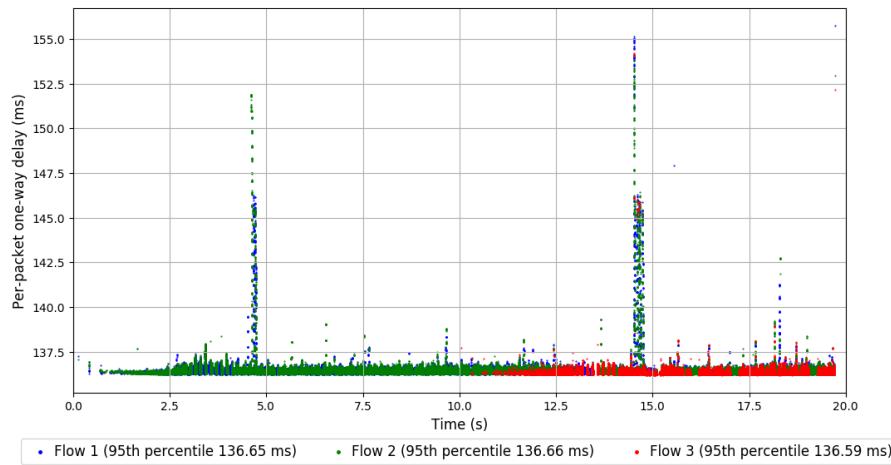
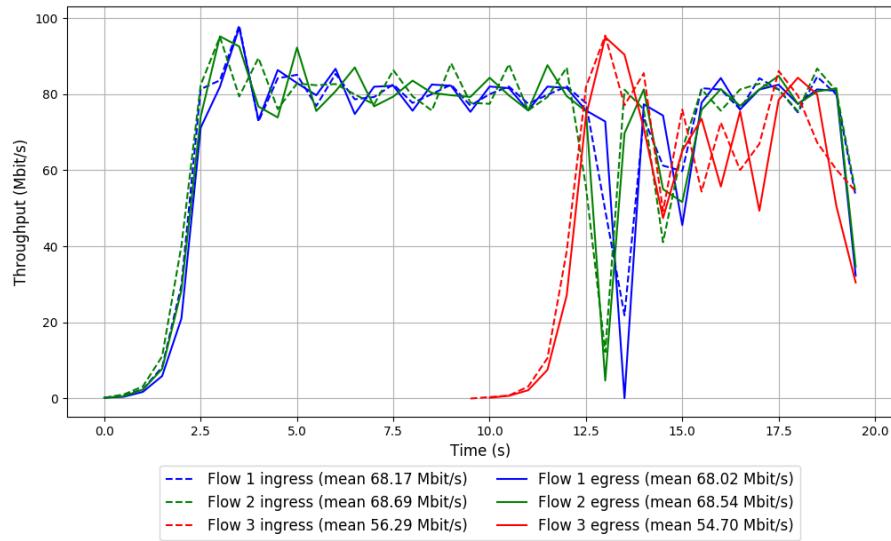


Run 10: Statistics of TCP BBR

Start at: 2017-08-12 14:43:52

End at: 2017-08-12 14:44:22

## Run 10: Report of TCP BBR — Data Link

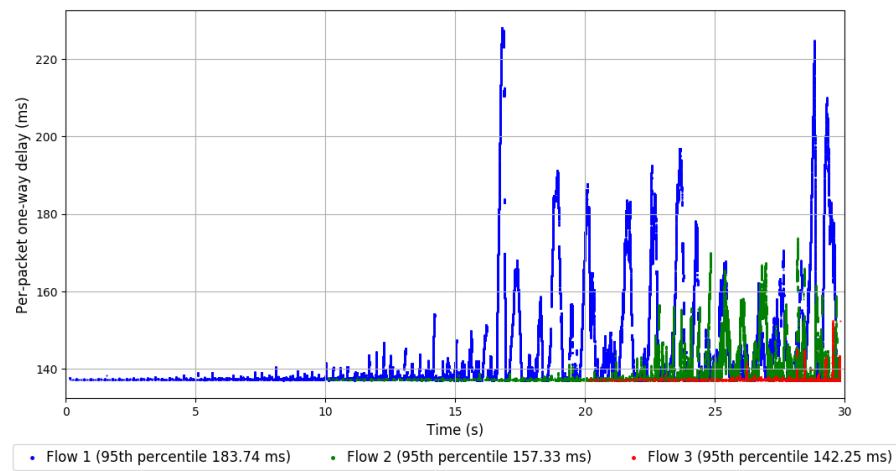
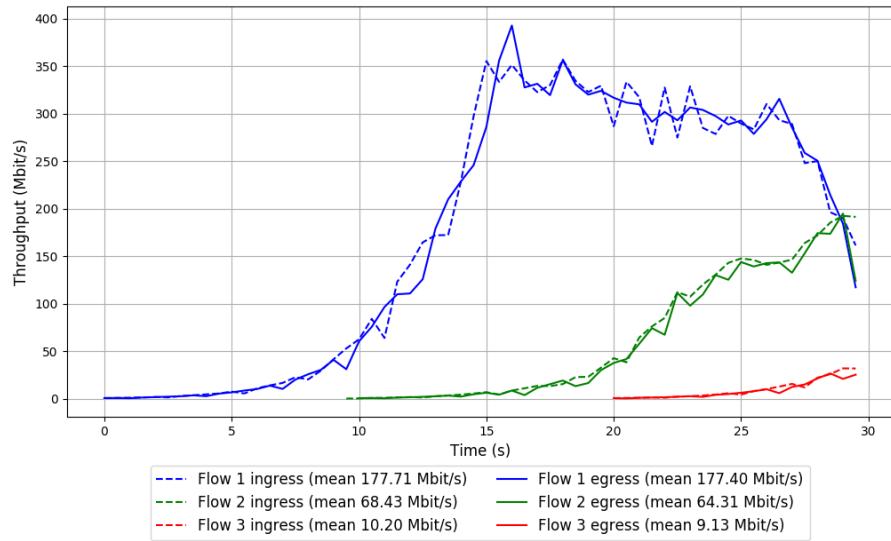


```
Run 1: Statistics of CalibratedKoho

Start at: 2017-08-12 12:39:49
End at: 2017-08-12 12:40:19

# Below is generated by plot.py at 2017-08-12 17:48:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 222.96 Mbit/s
95th percentile per-packet one-way delay: 181.335 ms
Loss rate: 2.51%
-- Flow 1:
Average throughput: 177.40 Mbit/s
95th percentile per-packet one-way delay: 183.741 ms
Loss rate: 1.08%
-- Flow 2:
Average throughput: 64.31 Mbit/s
95th percentile per-packet one-way delay: 157.331 ms
Loss rate: 7.33%
-- Flow 3:
Average throughput: 9.13 Mbit/s
95th percentile per-packet one-way delay: 142.245 ms
Loss rate: 12.85%
```

Run 1: Report of CalibratedKoho — Data Link



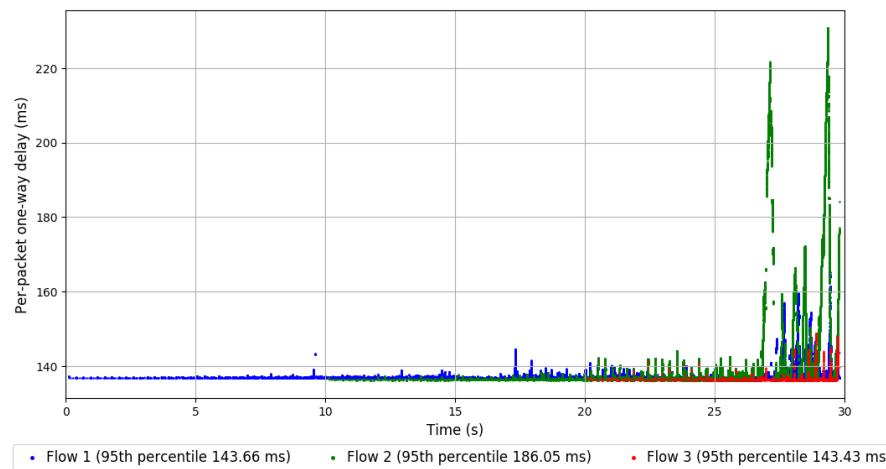
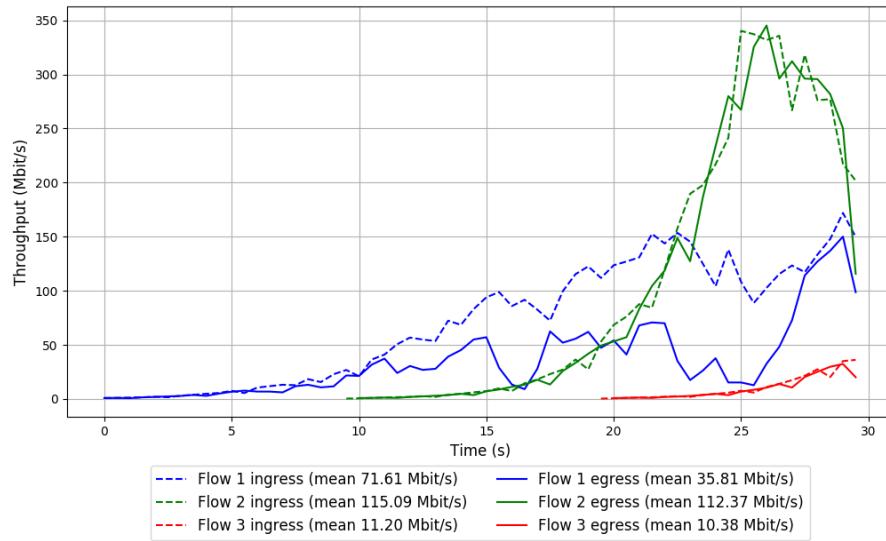
```
Run 2: Statistics of CalibratedKoho
```

```
Start at: 2017-08-12 12:53:54
```

```
End at: 2017-08-12 12:54:24
```

```
# Below is generated by plot.py at 2017-08-12 17:48:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 113.77 Mbit/s
95th percentile per-packet one-way delay: 169.382 ms
Loss rate: 25.84%
-- Flow 1:
Average throughput: 35.81 Mbit/s
95th percentile per-packet one-way delay: 143.656 ms
Loss rate: 50.44%
-- Flow 2:
Average throughput: 112.37 Mbit/s
95th percentile per-packet one-way delay: 186.054 ms
Loss rate: 3.67%
-- Flow 3:
Average throughput: 10.38 Mbit/s
95th percentile per-packet one-way delay: 143.432 ms
Loss rate: 9.51%
```

Run 2: Report of CalibratedKoho — Data Link



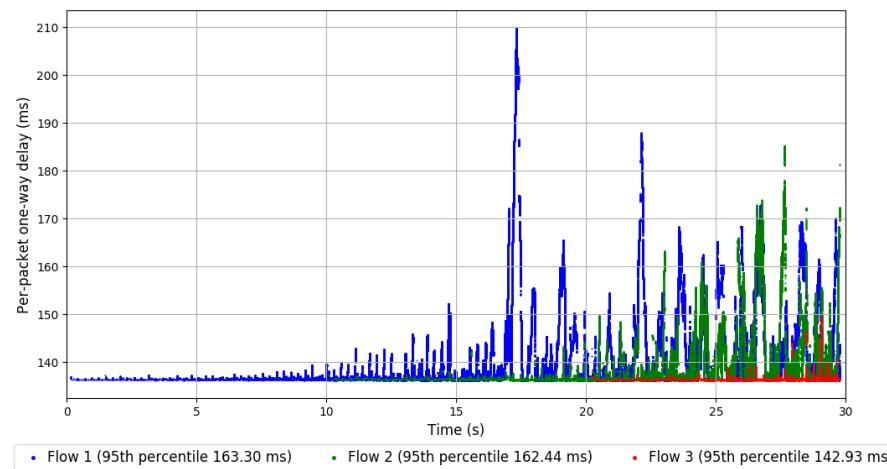
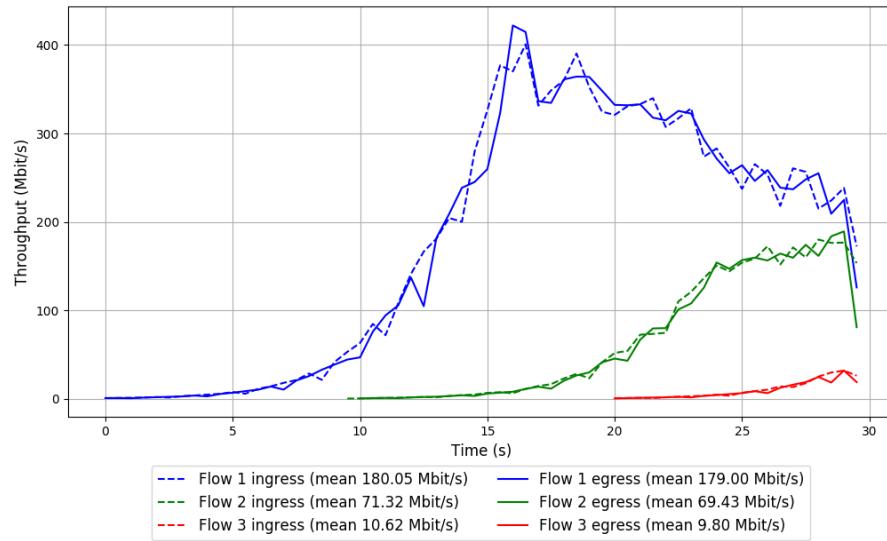
```
Run 3: Statistics of CalibratedKoho
```

```
Start at: 2017-08-12 13:07:43
```

```
End at: 2017-08-12 13:08:13
```

```
# Below is generated by plot.py at 2017-08-12 17:48:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 228.22 Mbit/s
95th percentile per-packet one-way delay: 162.912 ms
Loss rate: 2.12%
-- Flow 1:
Average throughput: 179.00 Mbit/s
95th percentile per-packet one-way delay: 163.302 ms
Loss rate: 1.49%
-- Flow 2:
Average throughput: 69.43 Mbit/s
95th percentile per-packet one-way delay: 162.438 ms
Loss rate: 3.94%
-- Flow 3:
Average throughput: 9.80 Mbit/s
95th percentile per-packet one-way delay: 142.933 ms
Loss rate: 10.28%
```

Run 3: Report of CalibratedKoho — Data Link



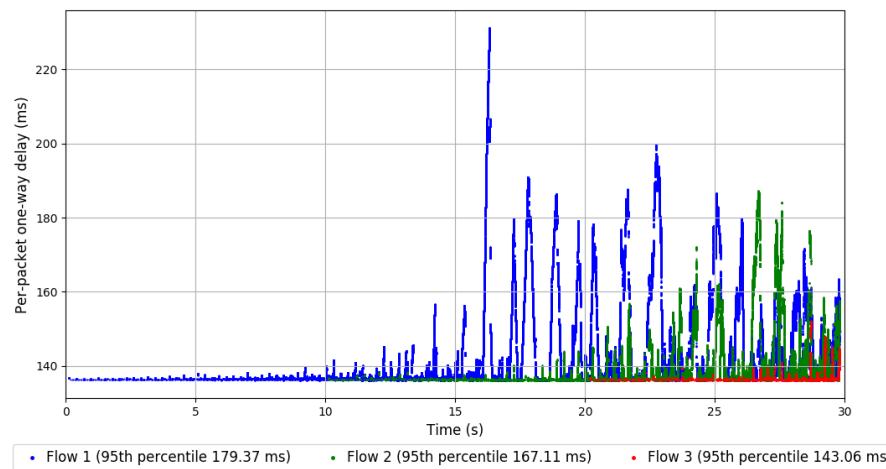
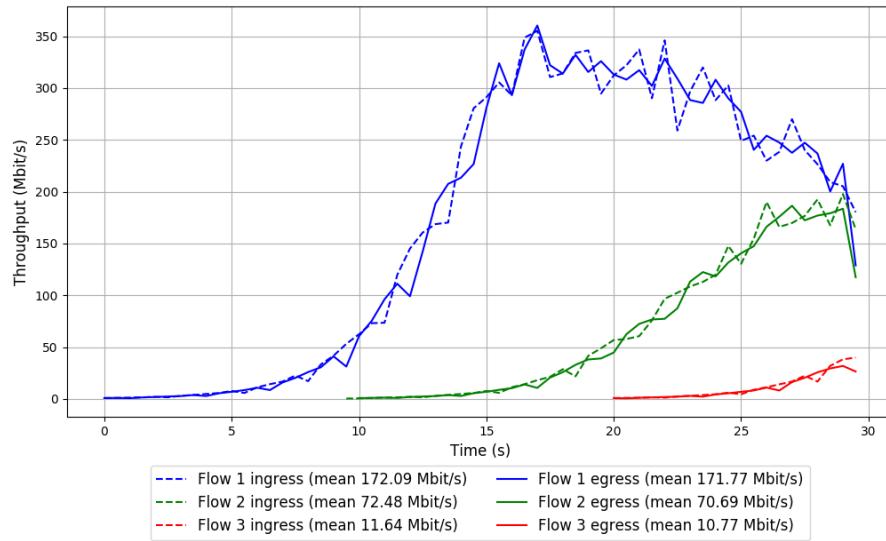
```
Run 4: Statistics of CalibratedKoho
```

```
Start at: 2017-08-12 13:21:34
```

```
End at: 2017-08-12 13:22:04
```

```
# Below is generated by plot.py at 2017-08-12 17:48:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 222.15 Mbit/s
95th percentile per-packet one-way delay: 177.252 ms
Loss rate: 1.82%
-- Flow 1:
Average throughput: 171.77 Mbit/s
95th percentile per-packet one-way delay: 179.374 ms
Loss rate: 1.08%
-- Flow 2:
Average throughput: 70.69 Mbit/s
95th percentile per-packet one-way delay: 167.114 ms
Loss rate: 3.81%
-- Flow 3:
Average throughput: 10.77 Mbit/s
95th percentile per-packet one-way delay: 143.059 ms
Loss rate: 10.01%
```

Run 4: Report of CalibratedKoho — Data Link

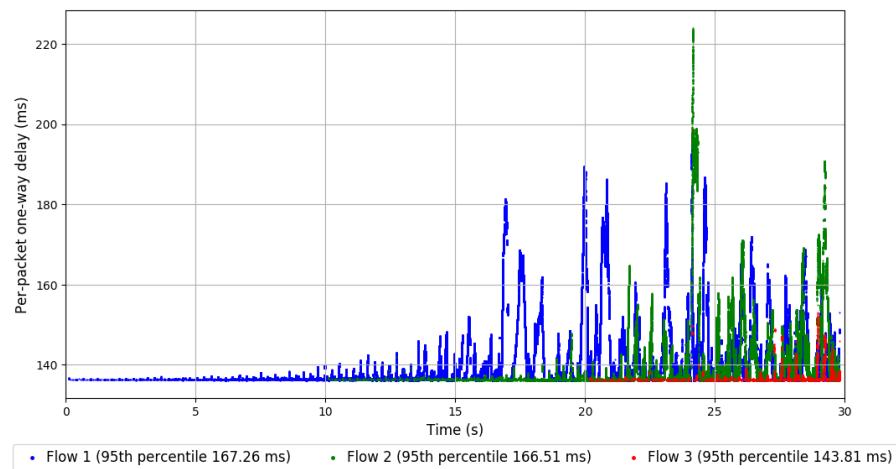
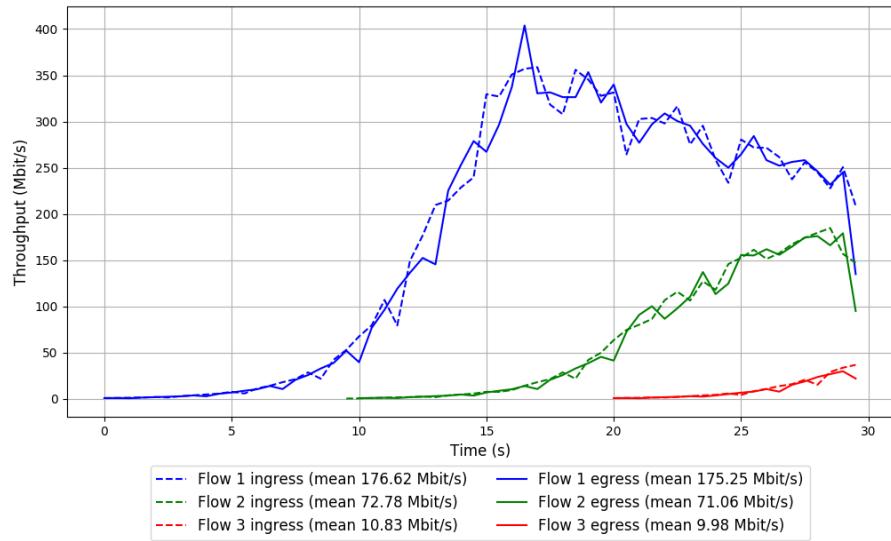


```
Run 5: Statistics of CalibratedKoho

Start at: 2017-08-12 13:36:08
End at: 2017-08-12 13:36:38

# Below is generated by plot.py at 2017-08-12 17:49:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 225.62 Mbit/s
95th percentile per-packet one-way delay: 166.924 ms
Loss rate: 2.23%
-- Flow 1:
Average throughput: 175.25 Mbit/s
95th percentile per-packet one-way delay: 167.257 ms
Loss rate: 1.67%
-- Flow 2:
Average throughput: 71.06 Mbit/s
95th percentile per-packet one-way delay: 166.506 ms
Loss rate: 3.68%
-- Flow 3:
Average throughput: 9.98 Mbit/s
95th percentile per-packet one-way delay: 143.811 ms
Loss rate: 10.31%
```

Run 5: Report of CalibratedKoho — Data Link



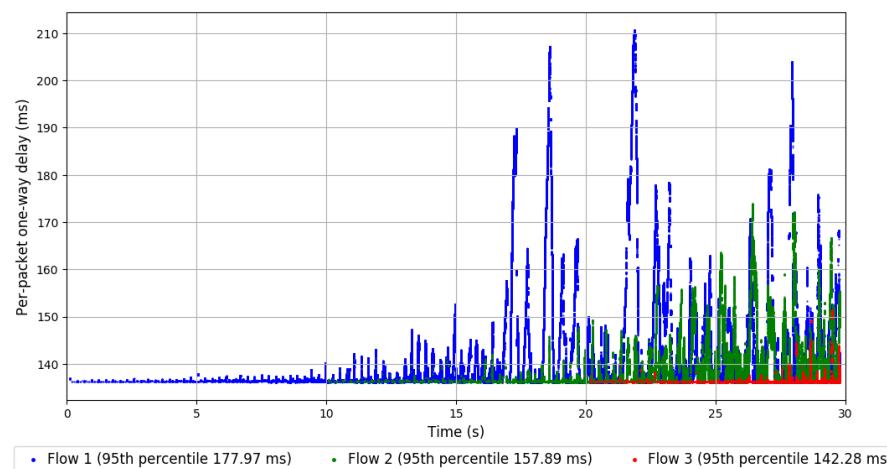
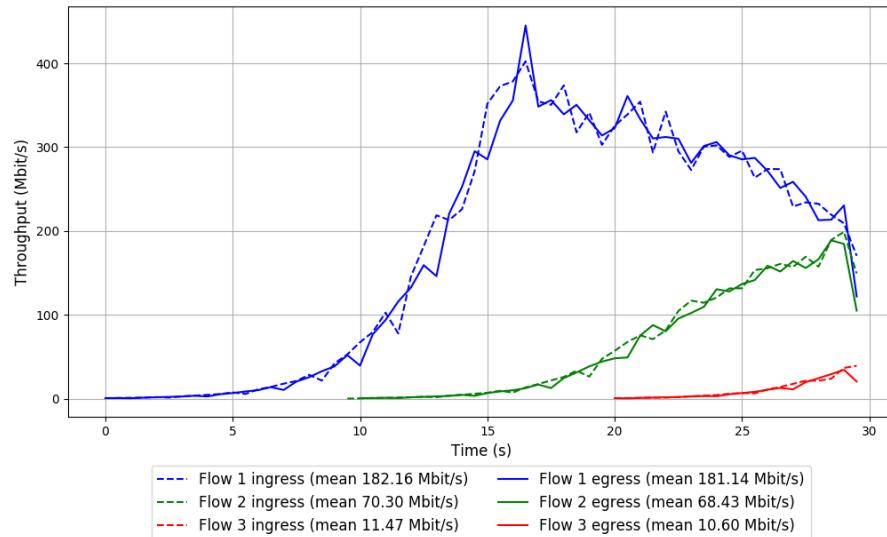
```
Run 6: Statistics of CalibratedKoho
```

```
Start at: 2017-08-12 13:49:54
```

```
End at: 2017-08-12 13:50:24
```

```
# Below is generated by plot.py at 2017-08-12 17:49:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 229.99 Mbit/s
95th percentile per-packet one-way delay: 172.833 ms
Loss rate: 2.10%
-- Flow 1:
Average throughput: 181.14 Mbit/s
95th percentile per-packet one-way delay: 177.975 ms
Loss rate: 1.45%
-- Flow 2:
Average throughput: 68.43 Mbit/s
95th percentile per-packet one-way delay: 157.890 ms
Loss rate: 3.94%
-- Flow 3:
Average throughput: 10.60 Mbit/s
95th percentile per-packet one-way delay: 142.284 ms
Loss rate: 10.23%
```

Run 6: Report of CalibratedKoho — Data Link

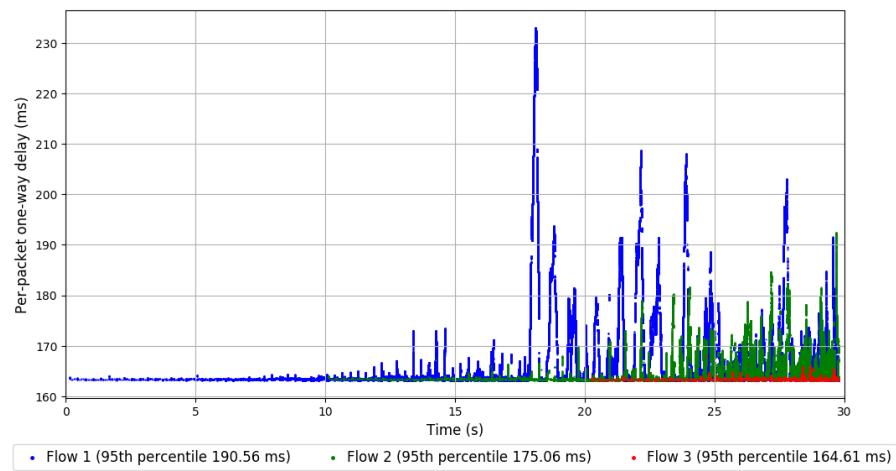
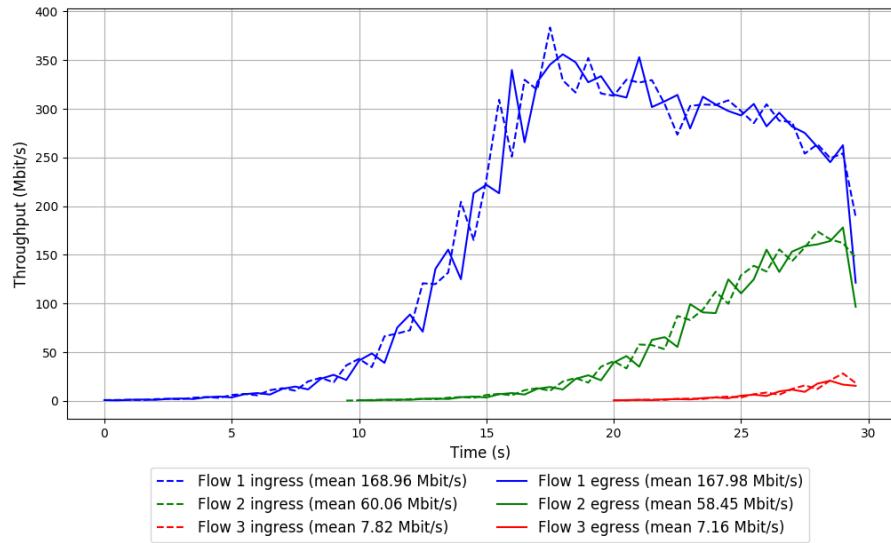


```
Run 7: Statistics of CalibratedKoho

Start at: 2017-08-12 14:03:07
End at: 2017-08-12 14:03:37

# Below is generated by plot.py at 2017-08-12 17:49:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 209.07 Mbit/s
95th percentile per-packet one-way delay: 188.373 ms
Loss rate: 2.17%
-- Flow 1:
Average throughput: 167.98 Mbit/s
95th percentile per-packet one-way delay: 190.563 ms
Loss rate: 1.57%
-- Flow 2:
Average throughput: 58.45 Mbit/s
95th percentile per-packet one-way delay: 175.061 ms
Loss rate: 4.11%
-- Flow 3:
Average throughput: 7.16 Mbit/s
95th percentile per-packet one-way delay: 164.612 ms
Loss rate: 11.34%
```

Run 7: Report of CalibratedKoho — Data Link



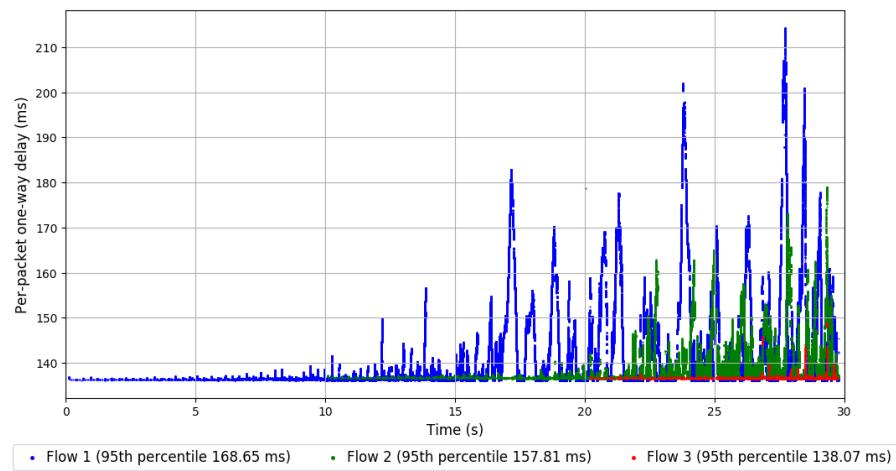
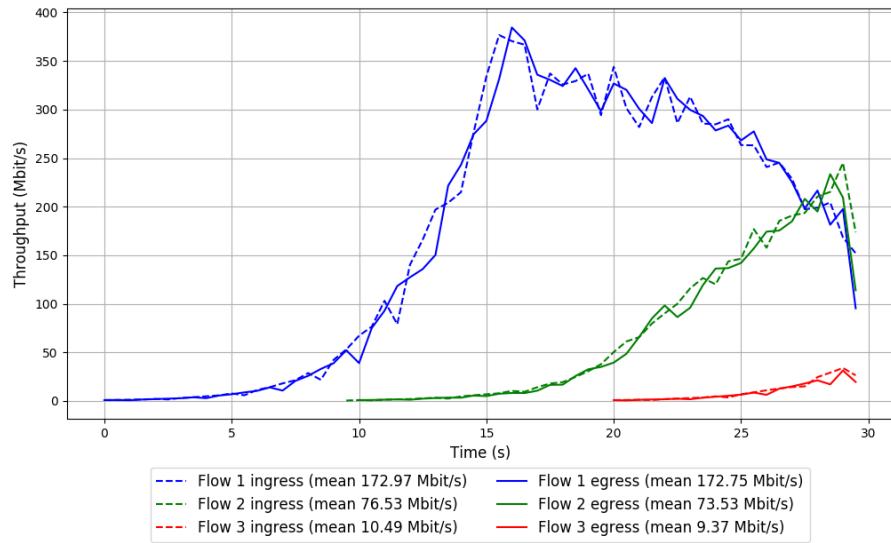
Run 8: Statistics of CalibratedKoho

Start at: 2017-08-12 14:16:47

End at: 2017-08-12 14:17:17

```
# Below is generated by plot.py at 2017-08-12 17:50:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 224.60 Mbit/s
95th percentile per-packet one-way delay: 166.475 ms
Loss rate: 2.14%
-- Flow 1:
Average throughput: 172.75 Mbit/s
95th percentile per-packet one-way delay: 168.649 ms
Loss rate: 1.02%
-- Flow 2:
Average throughput: 73.53 Mbit/s
95th percentile per-packet one-way delay: 157.812 ms
Loss rate: 5.19%
-- Flow 3:
Average throughput: 9.37 Mbit/s
95th percentile per-packet one-way delay: 138.071 ms
Loss rate: 13.16%
```

Run 8: Report of CalibratedKoho — Data Link



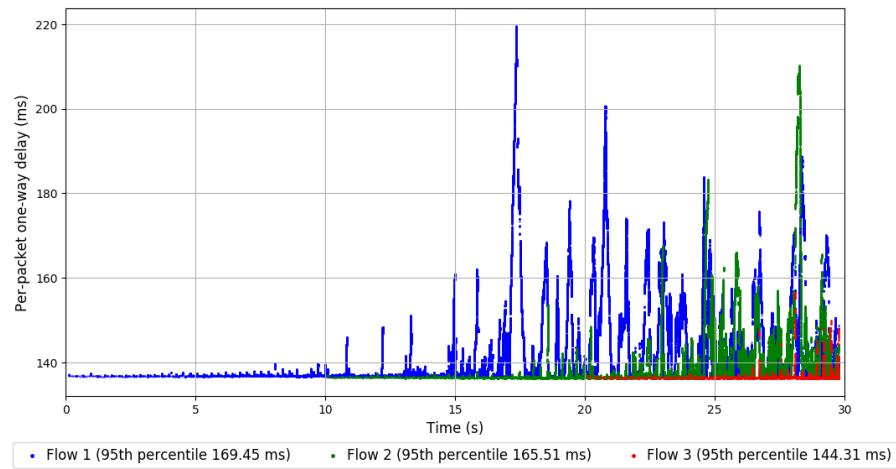
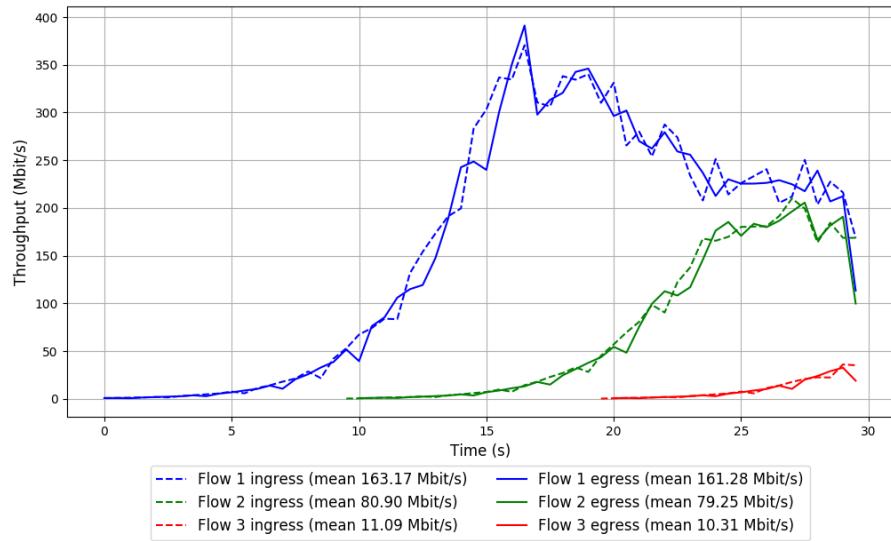
```
Run 9: Statistics of CalibratedKoho
```

```
Start at: 2017-08-12 14:30:46
```

```
End at: 2017-08-12 14:31:16
```

```
# Below is generated by plot.py at 2017-08-12 17:50:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 217.25 Mbit/s
95th percentile per-packet one-way delay: 169.007 ms
Loss rate: 2.49%
-- Flow 1:
Average throughput: 161.28 Mbit/s
95th percentile per-packet one-way delay: 169.451 ms
Loss rate: 2.04%
-- Flow 2:
Average throughput: 79.25 Mbit/s
95th percentile per-packet one-way delay: 165.509 ms
Loss rate: 3.37%
-- Flow 3:
Average throughput: 10.31 Mbit/s
95th percentile per-packet one-way delay: 144.314 ms
Loss rate: 9.57%
```

Run 9: Report of CalibratedKoho — Data Link



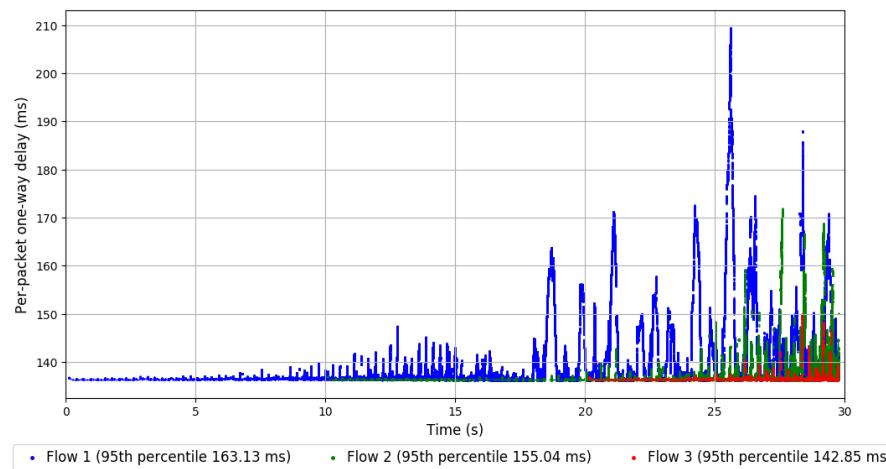
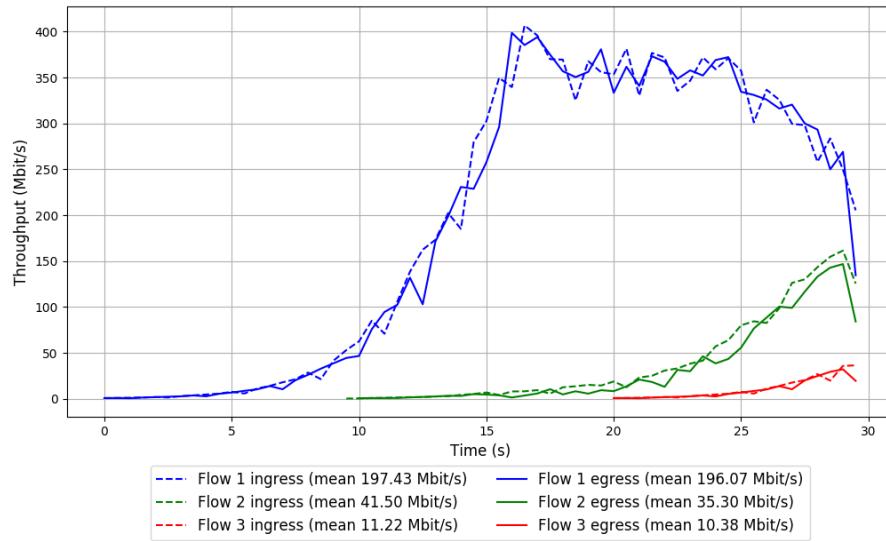
```
Run 10: Statistics of CalibratedKoho
```

```
Start at: 2017-08-12 14:44:49
```

```
End at: 2017-08-12 14:45:19
```

```
# Below is generated by plot.py at 2017-08-12 17:51:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 222.87 Mbit/s
95th percentile per-packet one-way delay: 162.325 ms
Loss rate: 3.47%
-- Flow 1:
Average throughput: 196.07 Mbit/s
95th percentile per-packet one-way delay: 163.133 ms
Loss rate: 1.58%
-- Flow 2:
Average throughput: 35.30 Mbit/s
95th percentile per-packet one-way delay: 155.038 ms
Loss rate: 16.06%
-- Flow 3:
Average throughput: 10.38 Mbit/s
95th percentile per-packet one-way delay: 142.847 ms
Loss rate: 10.05%
```

Run 10: Report of CalibratedKoho — Data Link

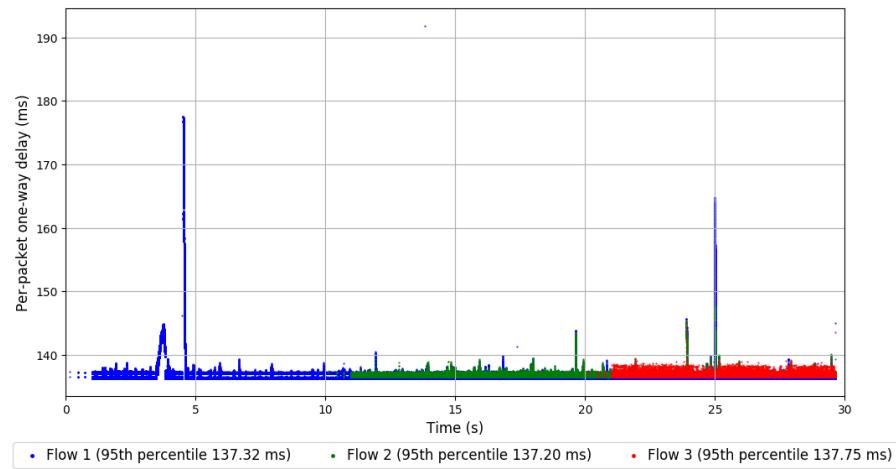
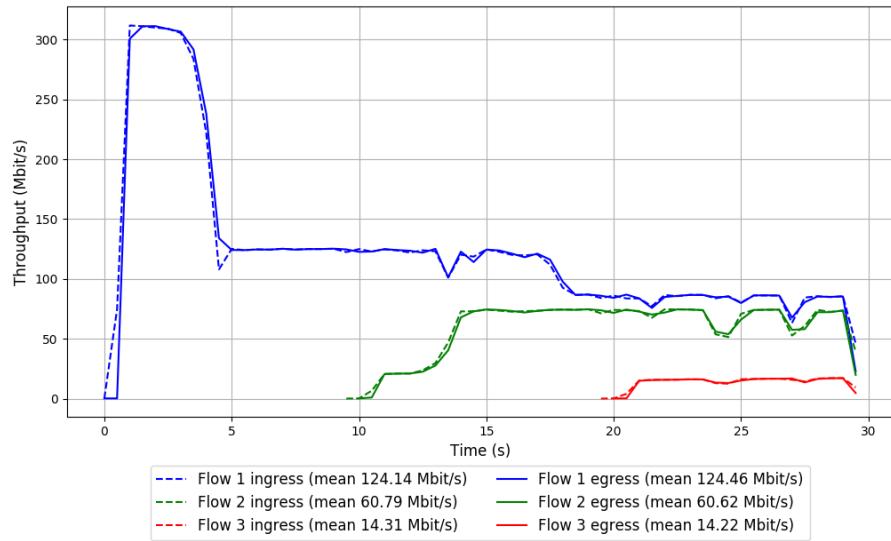


```
Run 1: Statistics of Copa

Start at: 2017-08-12 12:44:24
End at: 2017-08-12 12:44:54

# Below is generated by plot.py at 2017-08-12 17:51:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 169.18 Mbit/s
95th percentile per-packet one-way delay: 137.268 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 124.46 Mbit/s
95th percentile per-packet one-way delay: 137.325 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 60.62 Mbit/s
95th percentile per-packet one-way delay: 137.204 ms
Loss rate: 1.66%
-- Flow 3:
Average throughput: 14.22 Mbit/s
95th percentile per-packet one-way delay: 137.750 ms
Loss rate: 3.35%
```

## Run 1: Report of Copa — Data Link



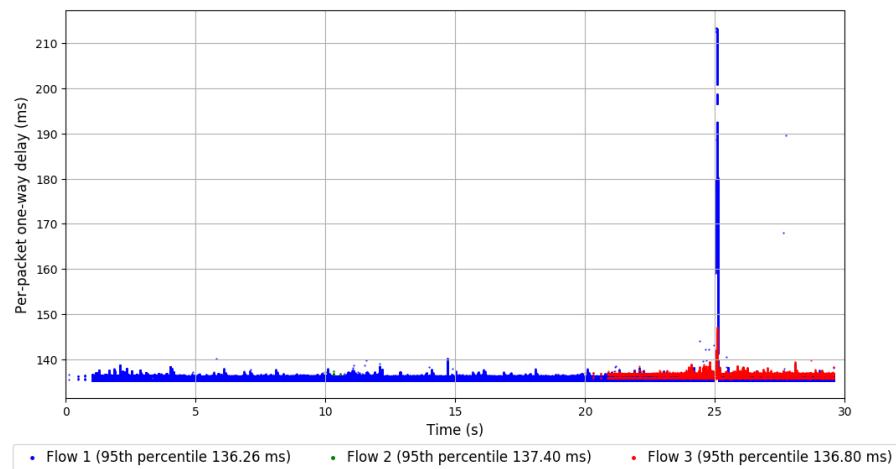
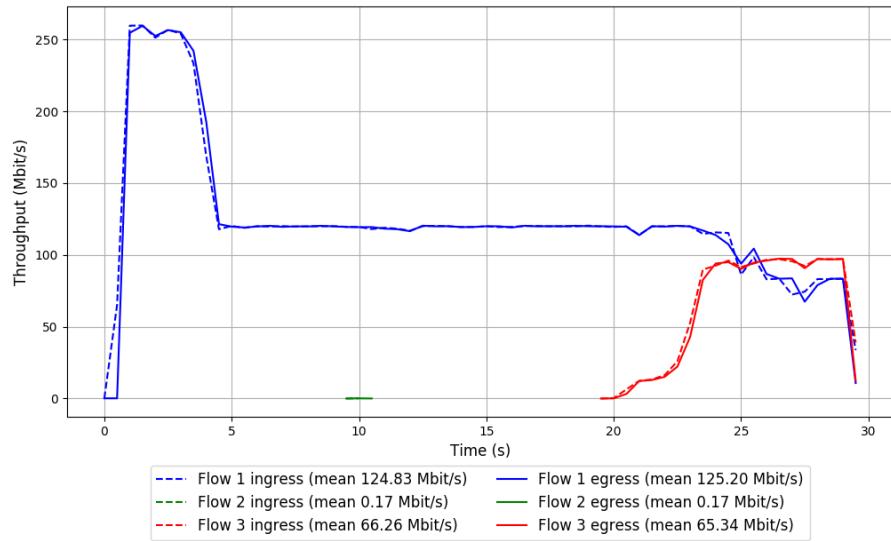
Run 2: Statistics of Copa

Start at: 2017-08-12 12:58:17

End at: 2017-08-12 12:58:47

```
# Below is generated by plot.py at 2017-08-12 17:51:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 146.45 Mbit/s
95th percentile per-packet one-way delay: 136.722 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 125.20 Mbit/s
95th percentile per-packet one-way delay: 136.264 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 137.398 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 65.34 Mbit/s
95th percentile per-packet one-way delay: 136.798 ms
Loss rate: 4.08%
```

## Run 2: Report of Copa — Data Link



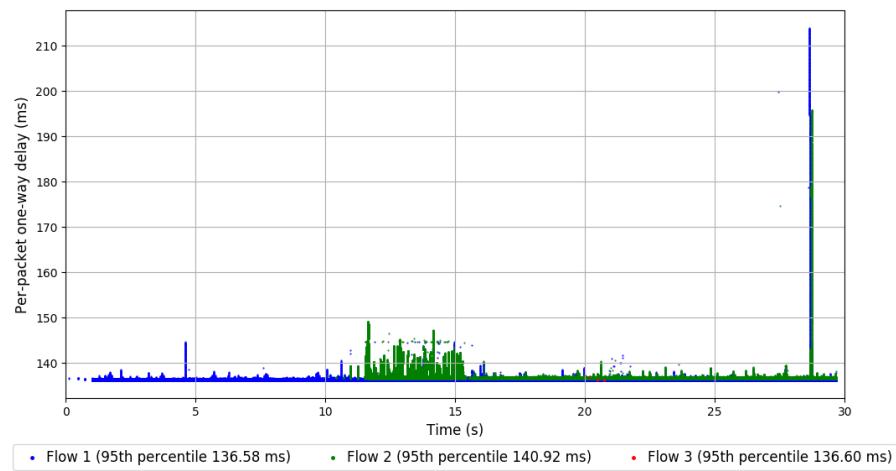
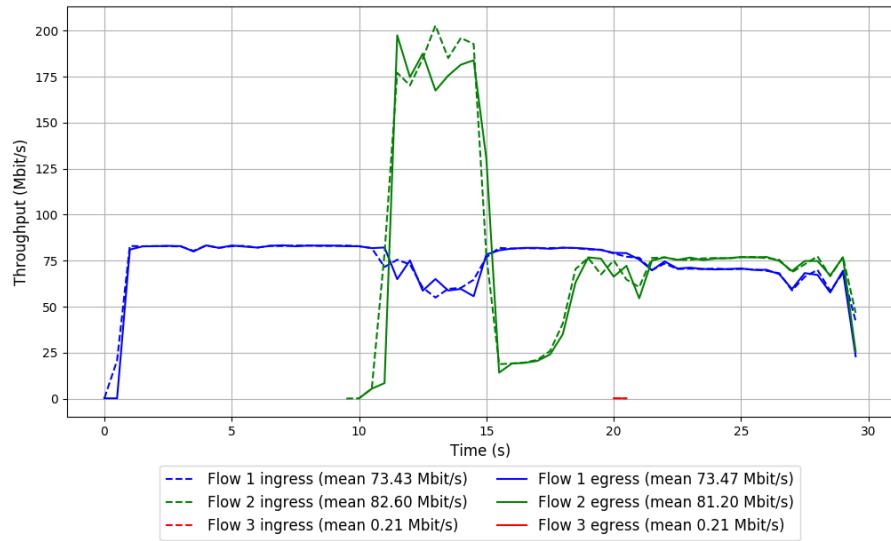
Run 3: Statistics of Copa

Start at: 2017-08-12 13:12:18

End at: 2017-08-12 13:12:48

```
# Below is generated by plot.py at 2017-08-12 17:52:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 127.30 Mbit/s
95th percentile per-packet one-way delay: 138.947 ms
Loss rate: 1.80%
-- Flow 1:
Average throughput: 73.47 Mbit/s
95th percentile per-packet one-way delay: 136.577 ms
Loss rate: 0.86%
-- Flow 2:
Average throughput: 81.20 Mbit/s
95th percentile per-packet one-way delay: 140.924 ms
Loss rate: 3.04%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 136.603 ms
Loss rate: 0.00%
```

### Run 3: Report of Copa — Data Link



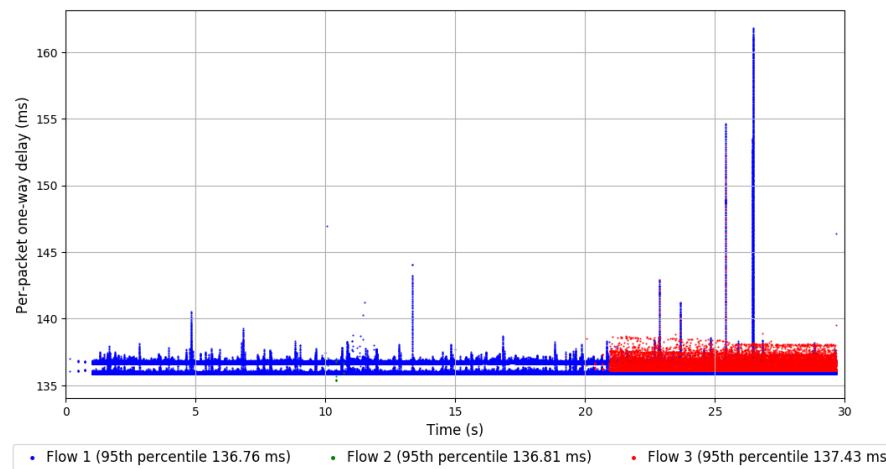
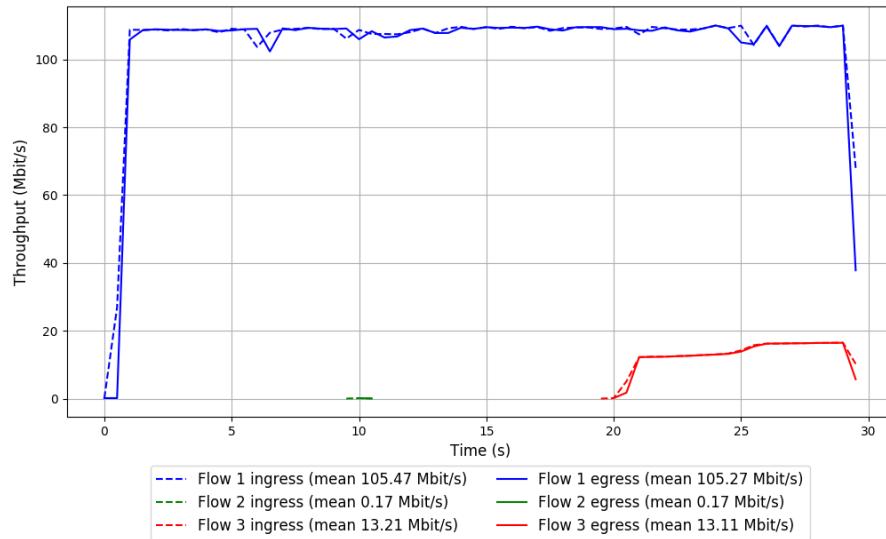
Run 4: Statistics of Copa

Start at: 2017-08-12 13:26:09

End at: 2017-08-12 13:26:39

```
# Below is generated by plot.py at 2017-08-12 17:52:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 109.54 Mbit/s
95th percentile per-packet one-way delay: 136.766 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 105.27 Mbit/s
95th percentile per-packet one-way delay: 136.760 ms
Loss rate: 1.07%
-- Flow 2:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 136.814 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 13.11 Mbit/s
95th percentile per-packet one-way delay: 137.427 ms
Loss rate: 3.45%
```

## Run 4: Report of Copa — Data Link



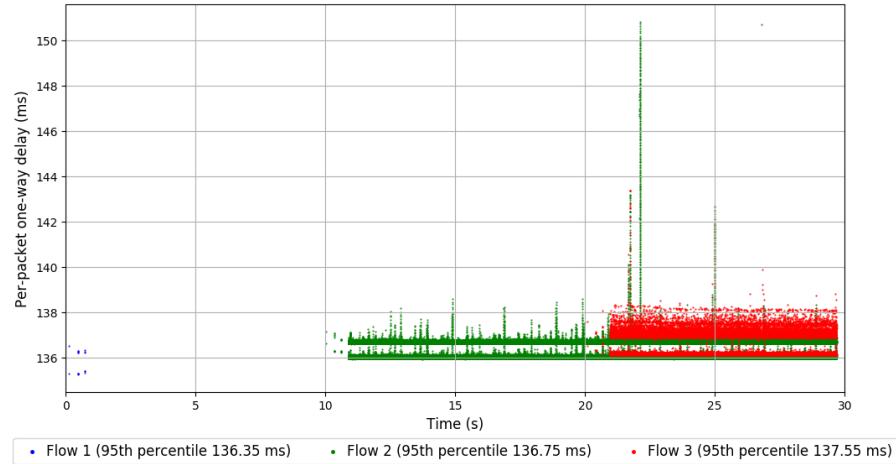
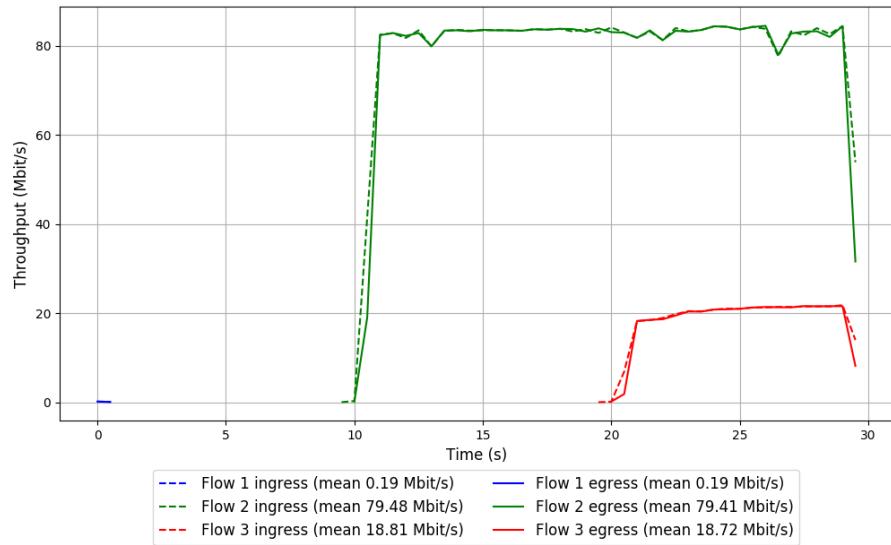
Run 5: Statistics of Copa

Start at: 2017-08-12 13:40:45

End at: 2017-08-12 13:41:15

```
# Below is generated by plot.py at 2017-08-12 17:52:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 58.97 Mbit/s
95th percentile per-packet one-way delay: 136.917 ms
Loss rate: 1.63%
-- Flow 1:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 136.350 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 79.41 Mbit/s
95th percentile per-packet one-way delay: 136.749 ms
Loss rate: 1.45%
-- Flow 3:
Average throughput: 18.72 Mbit/s
95th percentile per-packet one-way delay: 137.546 ms
Loss rate: 3.16%
```

Run 5: Report of Copa — Data Link

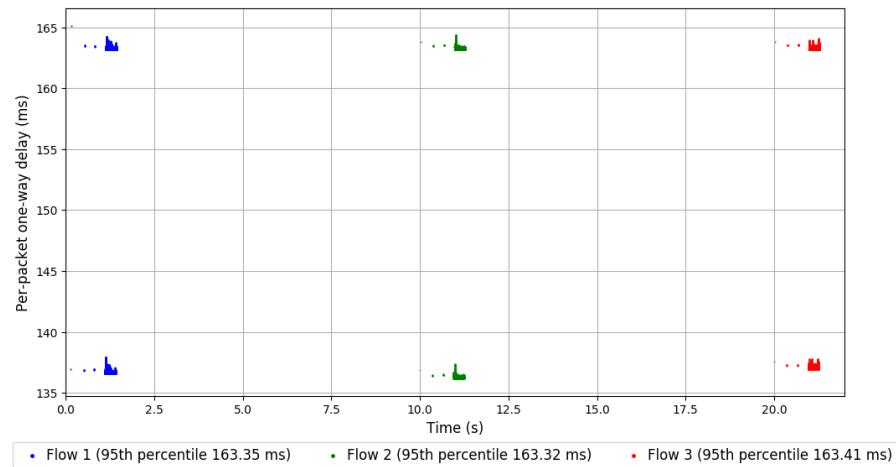
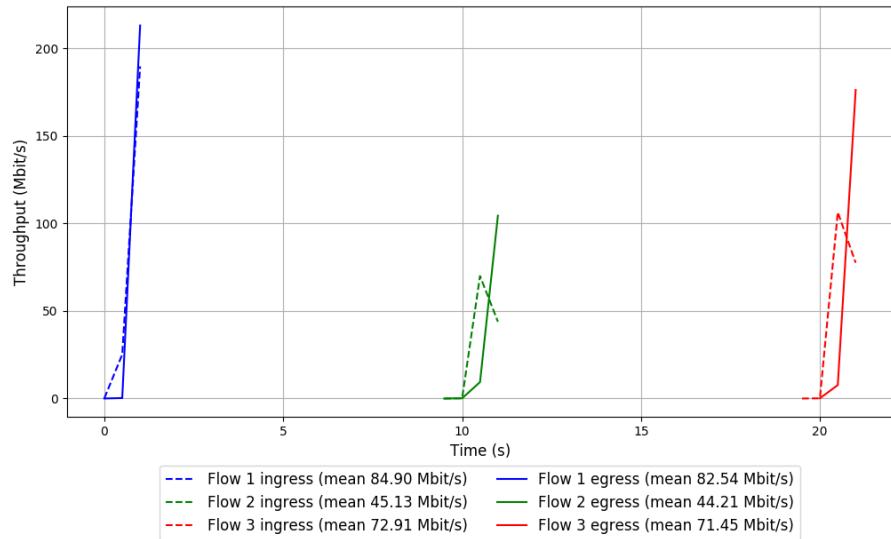


Run 6: Statistics of Copa

Start at: 2017-08-12 13:54:28

End at: 2017-08-12 13:54:58

## Run 6: Report of Copa — Data Link

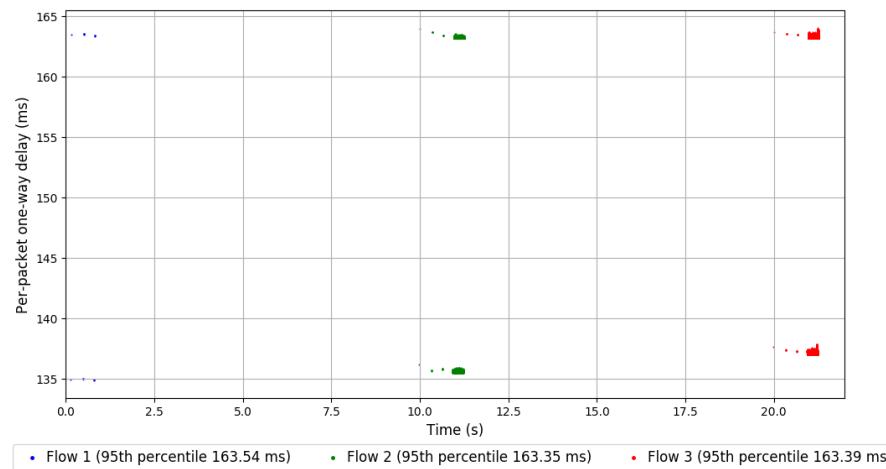
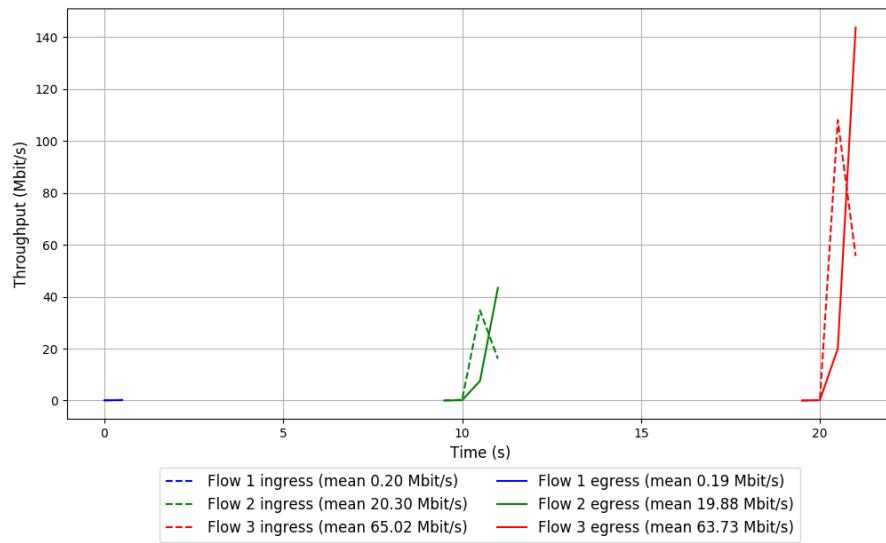


Run 7: Statistics of Copa

Start at: 2017-08-12 14:07:38

End at: 2017-08-12 14:08:08

## Run 7: Report of Copa — Data Link



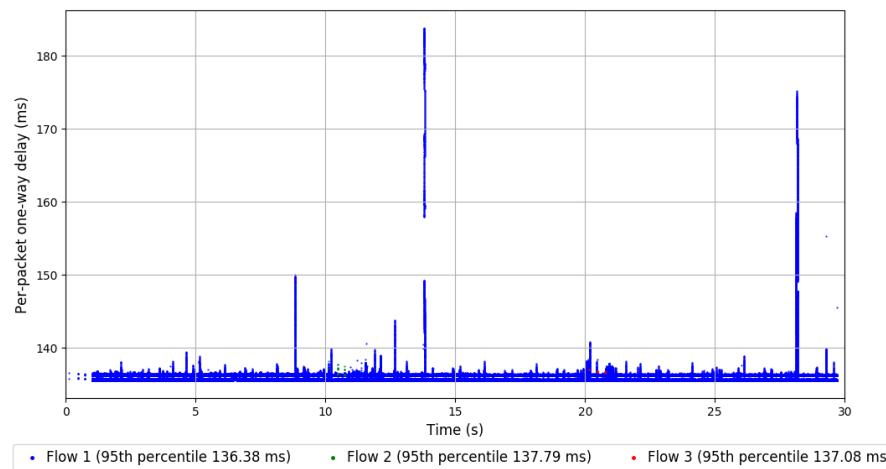
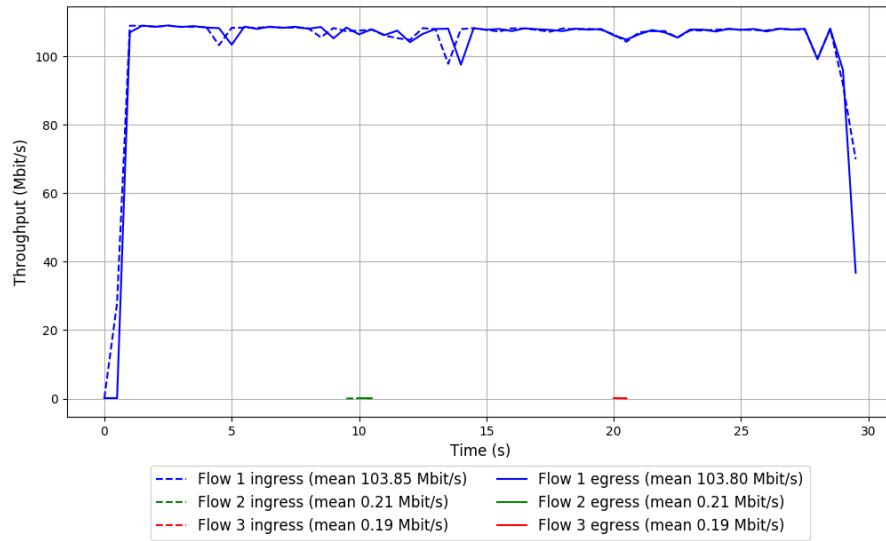
Run 8: Statistics of Copa

Start at: 2017-08-12 14:21:19

End at: 2017-08-12 14:21:49

```
# Below is generated by plot.py at 2017-08-12 17:53:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 103.81 Mbit/s
95th percentile per-packet one-way delay: 136.381 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 103.80 Mbit/s
95th percentile per-packet one-way delay: 136.381 ms
Loss rate: 0.94%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 137.792 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 137.076 ms
Loss rate: 0.00%
```

## Run 8: Report of Copa — Data Link



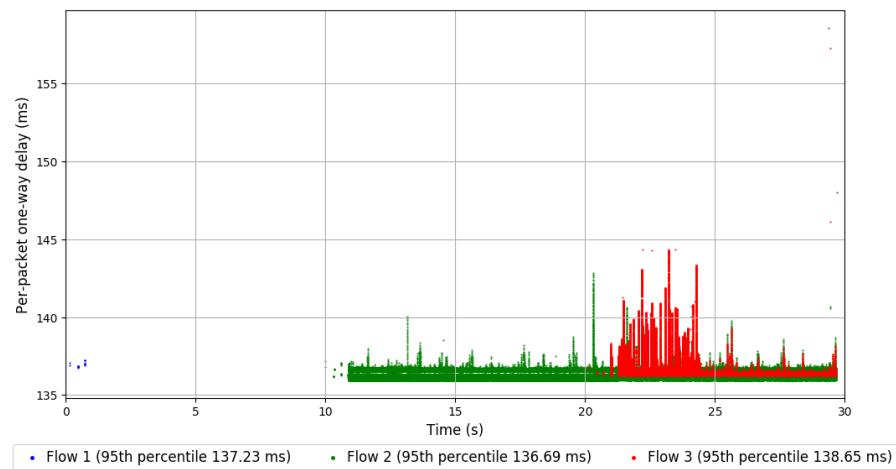
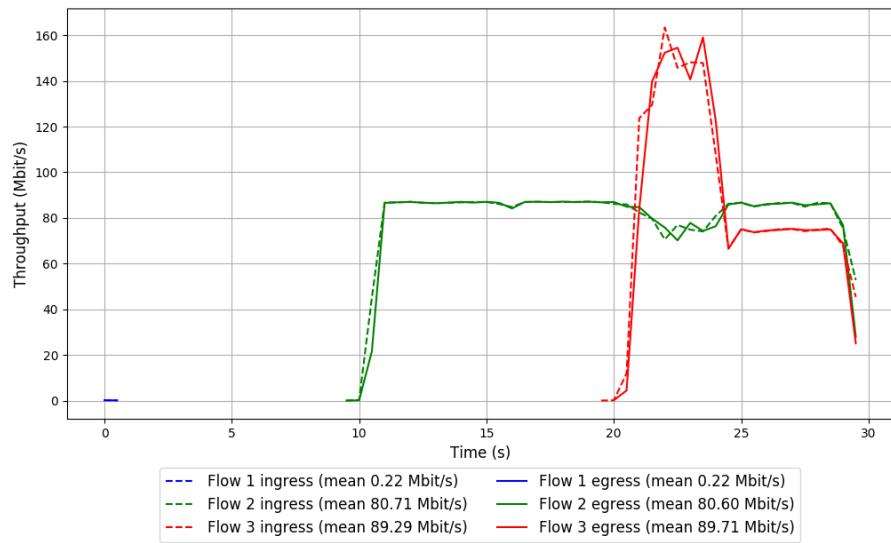
Run 9: Statistics of Copa

Start at: 2017-08-12 14:35:20

End at: 2017-08-12 14:35:50

```
# Below is generated by plot.py at 2017-08-12 17:53:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.74 Mbit/s
95th percentile per-packet one-way delay: 137.178 ms
Loss rate: 1.76%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.234 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 80.60 Mbit/s
95th percentile per-packet one-way delay: 136.687 ms
Loss rate: 1.49%
-- Flow 3:
Average throughput: 89.71 Mbit/s
95th percentile per-packet one-way delay: 138.648 ms
Loss rate: 2.26%
```

## Run 9: Report of Copa — Data Link



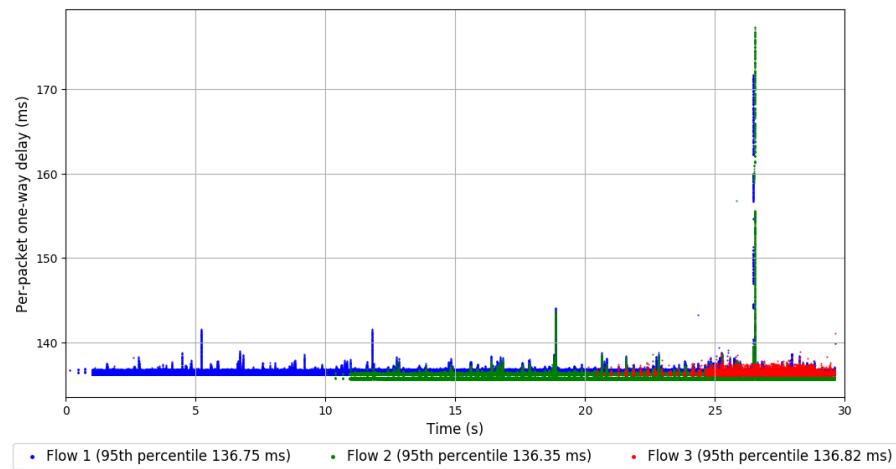
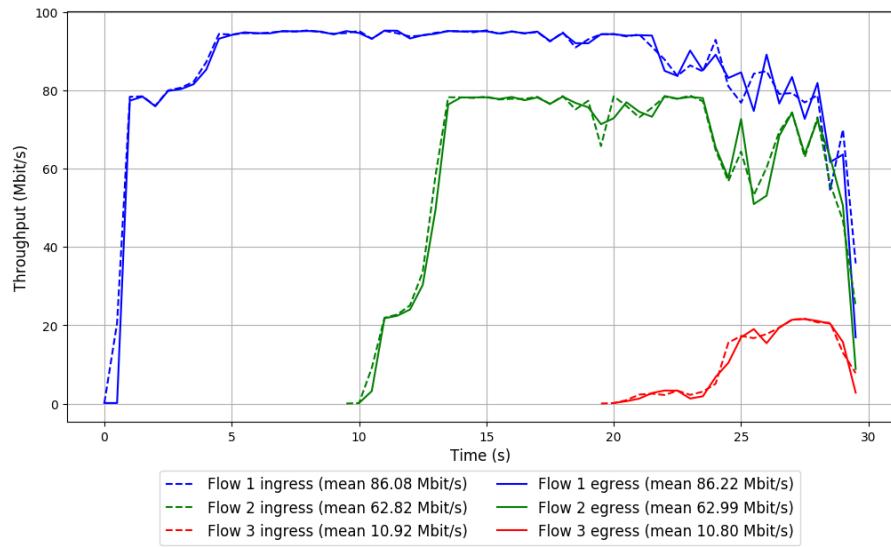
Run 10: Statistics of Copa

Start at: 2017-08-12 14:49:23

End at: 2017-08-12 14:49:53

```
# Below is generated by plot.py at 2017-08-12 17:54:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 131.49 Mbit/s
95th percentile per-packet one-way delay: 136.740 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 86.22 Mbit/s
95th percentile per-packet one-way delay: 136.752 ms
Loss rate: 0.75%
-- Flow 2:
Average throughput: 62.99 Mbit/s
95th percentile per-packet one-way delay: 136.353 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 10.80 Mbit/s
95th percentile per-packet one-way delay: 136.821 ms
Loss rate: 3.77%
```

## Run 10: Report of Copa — Data Link

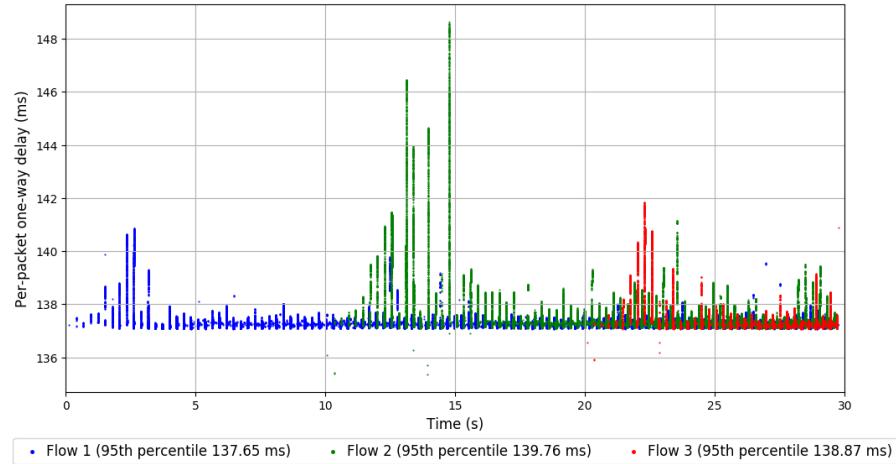
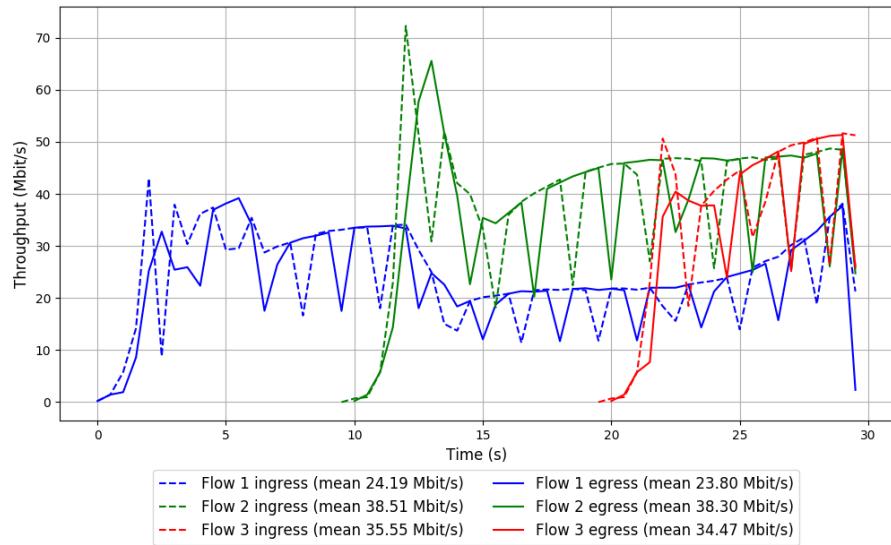


```
Run 1: Statistics of TCP Cubic

Start at: 2017-08-12 12:41:49
End at: 2017-08-12 12:42:19

# Below is generated by plot.py at 2017-08-12 17:54:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 60.42 Mbit/s
95th percentile per-packet one-way delay: 138.787 ms
Loss rate: 2.89%
-- Flow 1:
Average throughput: 23.80 Mbit/s
95th percentile per-packet one-way delay: 137.647 ms
Loss rate: 2.60%
-- Flow 2:
Average throughput: 38.30 Mbit/s
95th percentile per-packet one-way delay: 139.758 ms
Loss rate: 1.92%
-- Flow 3:
Average throughput: 34.47 Mbit/s
95th percentile per-packet one-way delay: 138.870 ms
Loss rate: 5.58%
```

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



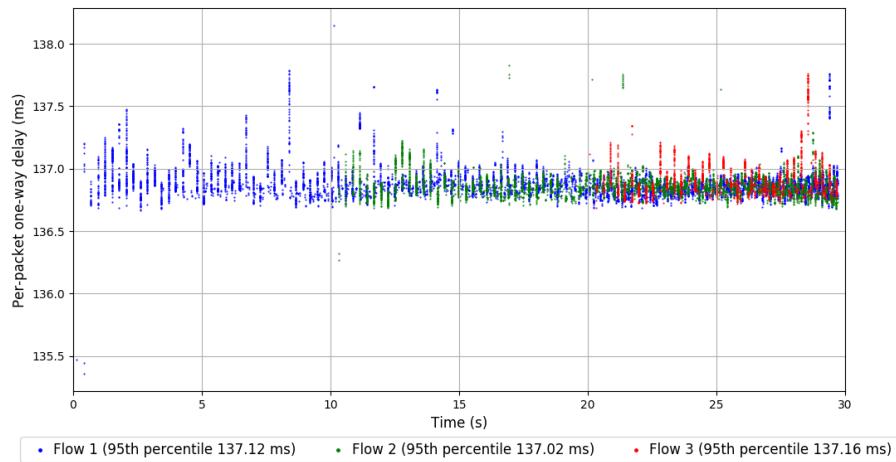
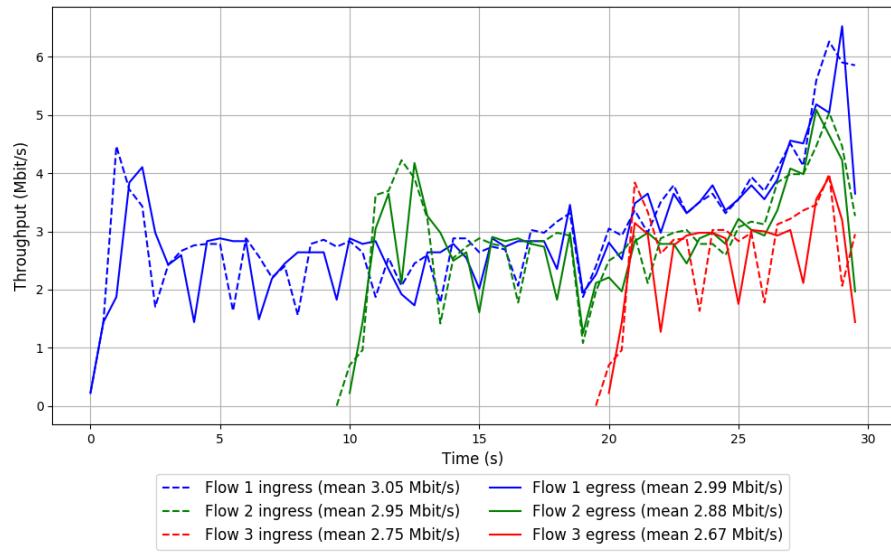
Run 2: Statistics of TCP Cubic

Start at: 2017-08-12 12:55:47

End at: 2017-08-12 12:56:17

```
# Below is generated by plot.py at 2017-08-12 17:54:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.77 Mbit/s
95th percentile per-packet one-way delay: 137.091 ms
Loss rate: 3.69%
-- Flow 1:
Average throughput: 2.99 Mbit/s
95th percentile per-packet one-way delay: 137.116 ms
Loss rate: 3.09%
-- Flow 2:
Average throughput: 2.88 Mbit/s
95th percentile per-packet one-way delay: 137.016 ms
Loss rate: 3.70%
-- Flow 3:
Average throughput: 2.67 Mbit/s
95th percentile per-packet one-way delay: 137.163 ms
Loss rate: 5.67%
```

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



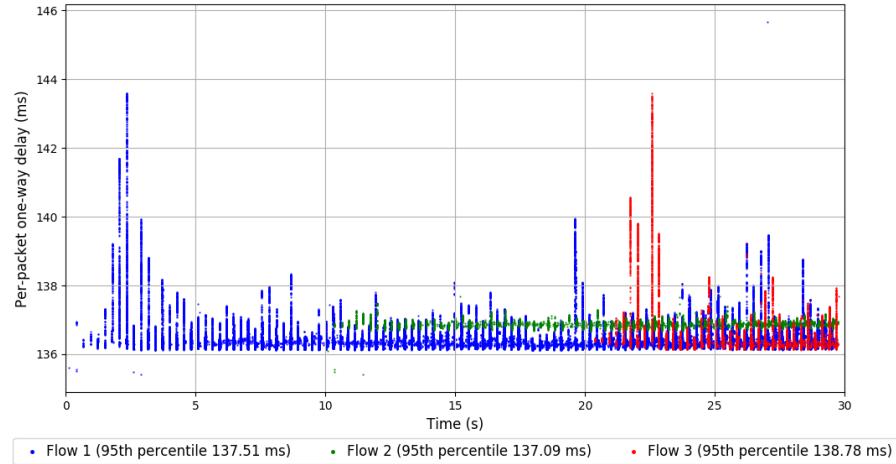
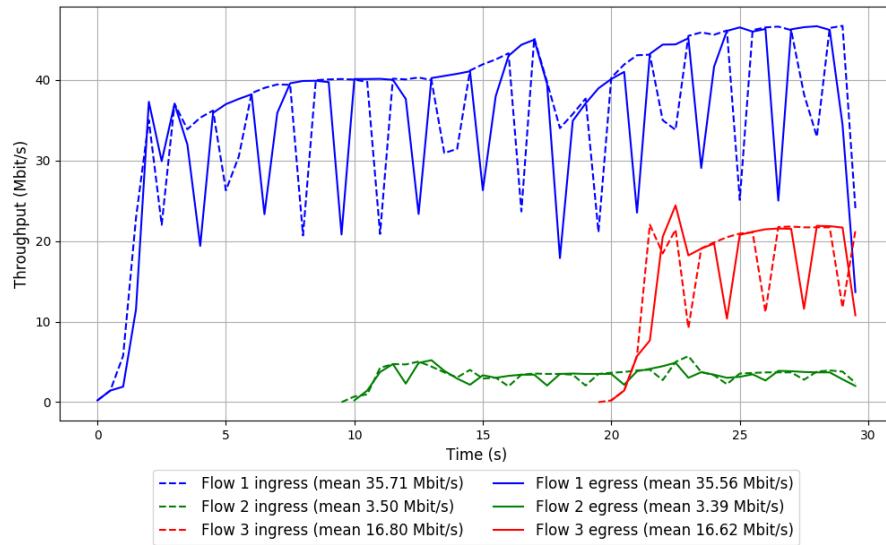
Run 3: Statistics of TCP Cubic

Start at: 2017-08-12 13:09:45

End at: 2017-08-12 13:10:15

```
# Below is generated by plot.py at 2017-08-12 17:54:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 43.17 Mbit/s
95th percentile per-packet one-way delay: 137.621 ms
Loss rate: 1.78%
-- Flow 1:
Average throughput: 35.56 Mbit/s
95th percentile per-packet one-way delay: 137.506 ms
Loss rate: 1.35%
-- Flow 2:
Average throughput: 3.39 Mbit/s
95th percentile per-packet one-way delay: 137.090 ms
Loss rate: 4.52%
-- Flow 3:
Average throughput: 16.62 Mbit/s
95th percentile per-packet one-way delay: 138.778 ms
Loss rate: 3.38%
```

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



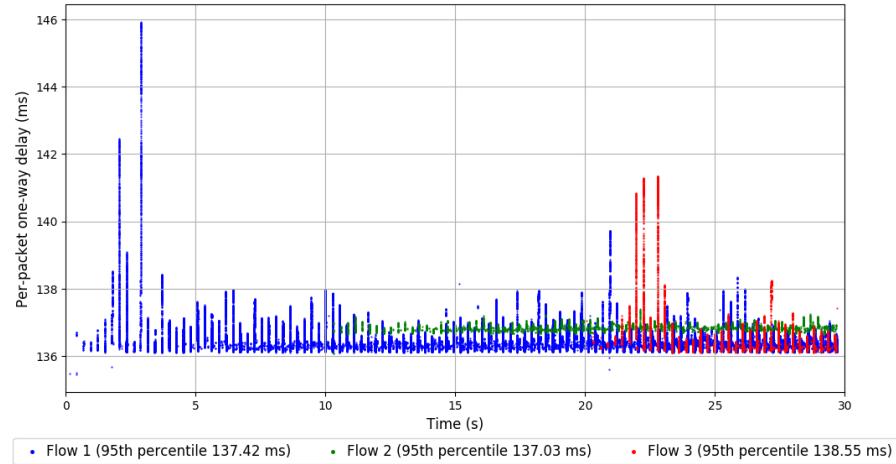
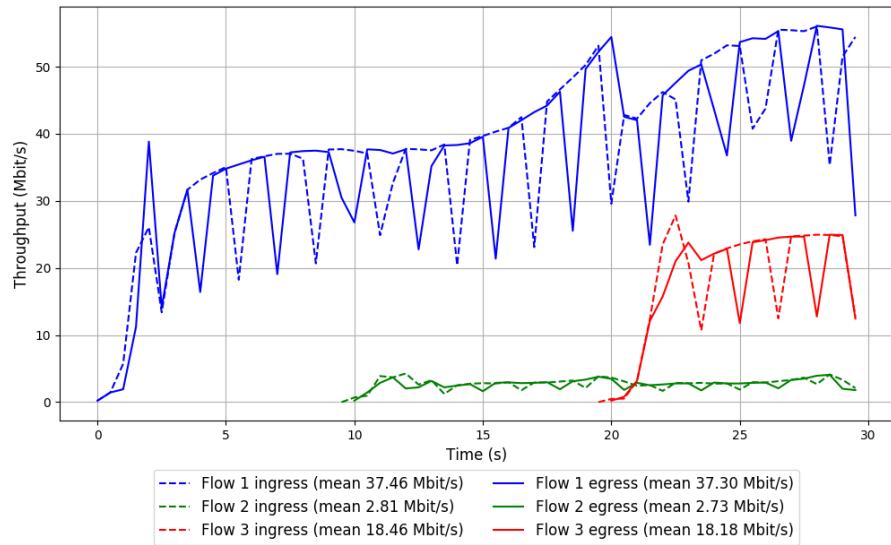
Run 4: Statistics of TCP Cubic

Start at: 2017-08-12 13:23:36

End at: 2017-08-12 13:24:06

```
# Below is generated by plot.py at 2017-08-12 17:54:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 45.05 Mbit/s
95th percentile per-packet one-way delay: 137.452 ms
Loss rate: 1.79%
-- Flow 1:
Average throughput: 37.30 Mbit/s
95th percentile per-packet one-way delay: 137.421 ms
Loss rate: 1.34%
-- Flow 2:
Average throughput: 2.73 Mbit/s
95th percentile per-packet one-way delay: 137.030 ms
Loss rate: 4.39%
-- Flow 3:
Average throughput: 18.18 Mbit/s
95th percentile per-packet one-way delay: 138.549 ms
Loss rate: 3.78%
```

Run 4: Report of TCP Cubic — Data Link



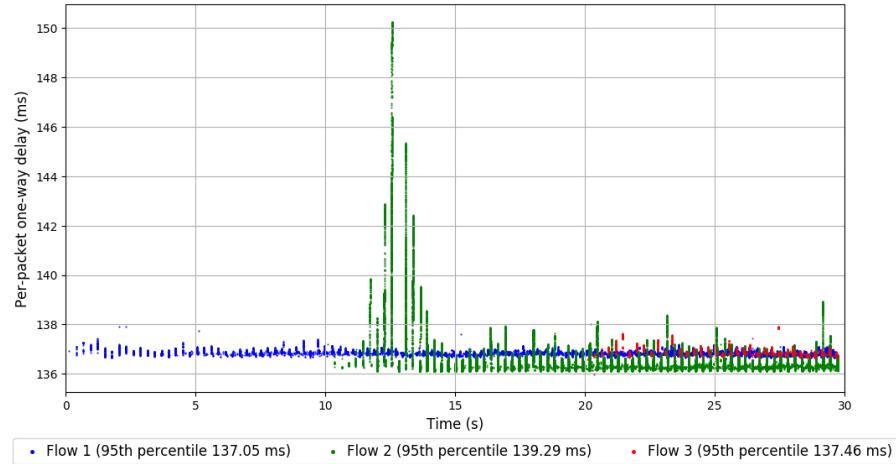
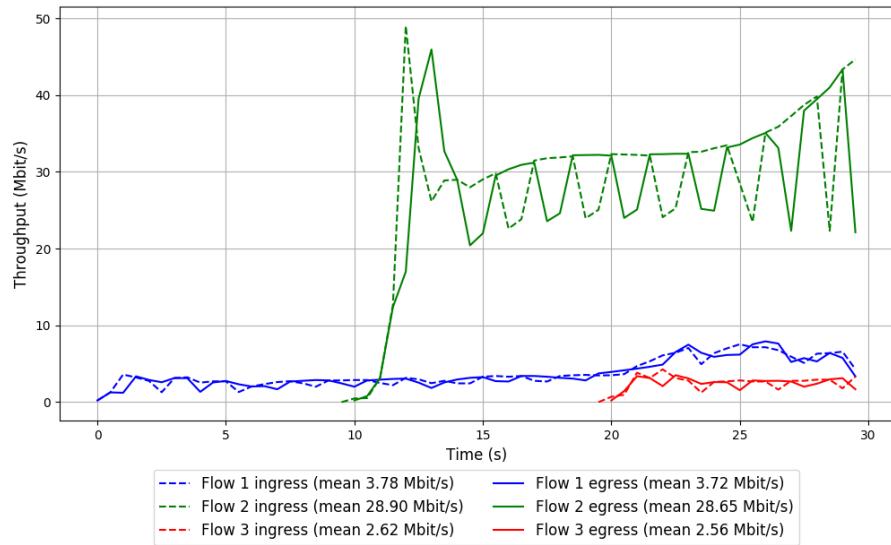
Run 5: Statistics of TCP Cubic

Start at: 2017-08-12 13:38:13

End at: 2017-08-12 13:38:43

```
# Below is generated by plot.py at 2017-08-12 17:54:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.58 Mbit/s
95th percentile per-packet one-way delay: 138.800 ms
Loss rate: 2.34%
-- Flow 1:
Average throughput: 3.72 Mbit/s
95th percentile per-packet one-way delay: 137.050 ms
Loss rate: 2.42%
-- Flow 2:
Average throughput: 28.65 Mbit/s
95th percentile per-packet one-way delay: 139.294 ms
Loss rate: 2.21%
-- Flow 3:
Average throughput: 2.56 Mbit/s
95th percentile per-packet one-way delay: 137.456 ms
Loss rate: 5.00%
```

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

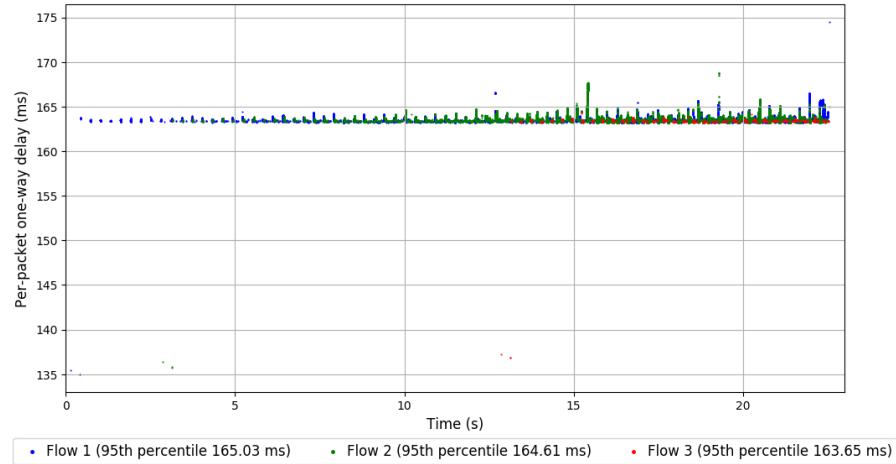
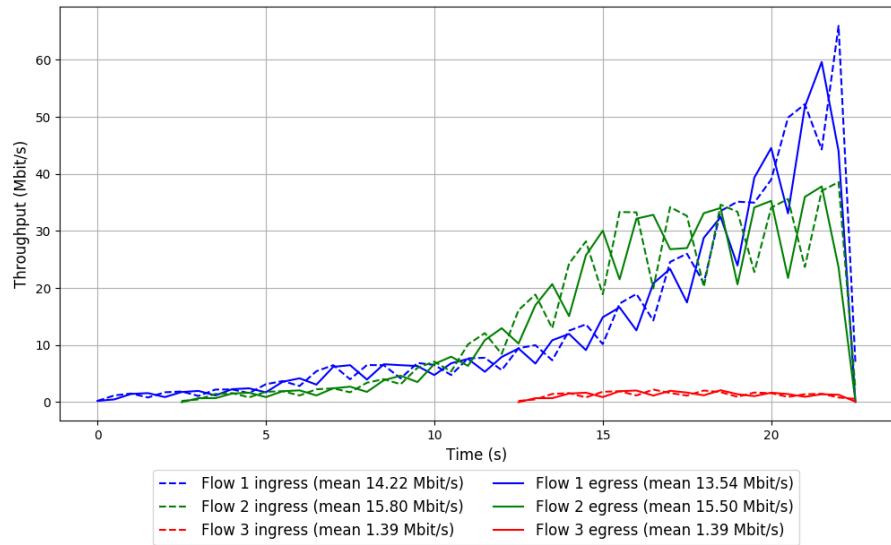


Run 6: Statistics of TCP Cubic

Start at: 2017-08-12 13:51:56

End at: 2017-08-12 13:52:26

## Run 6: Report of TCP Cubic — Data Link

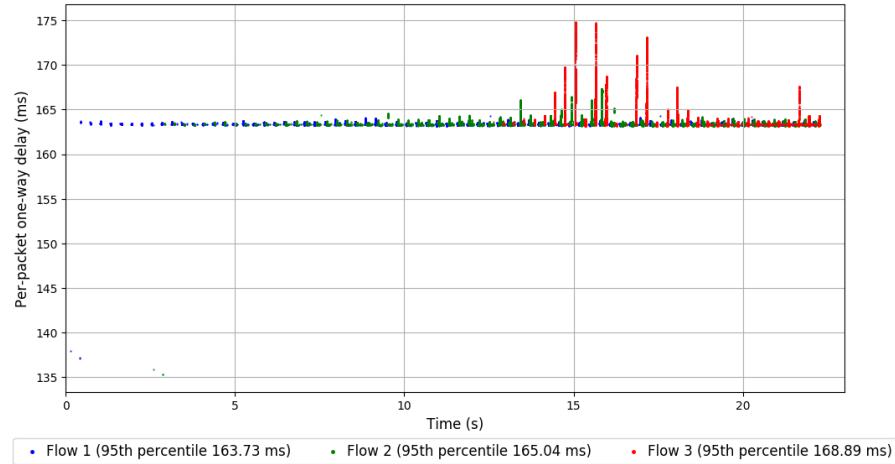
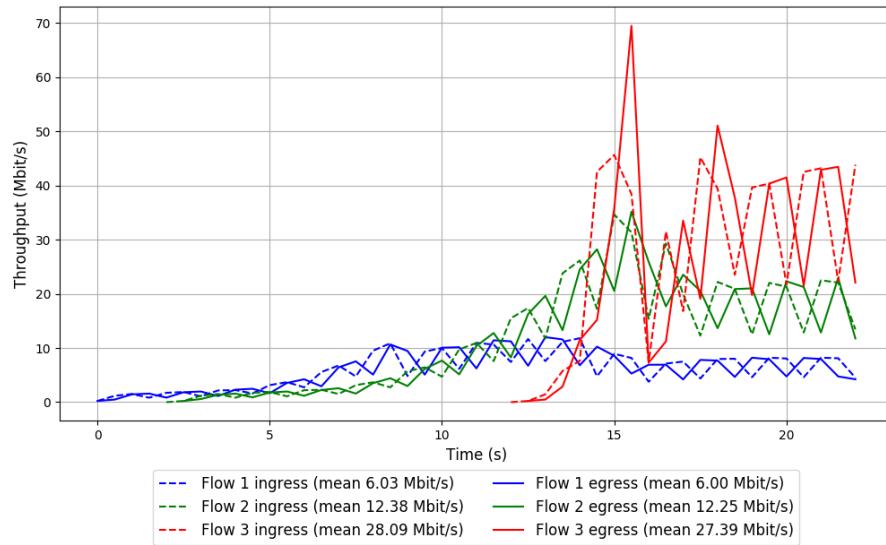


Run 7: Statistics of TCP Cubic

Start at: 2017-08-12 14:05:06

End at: 2017-08-12 14:05:36

### Run 7: Report of TCP Cubic — Data Link

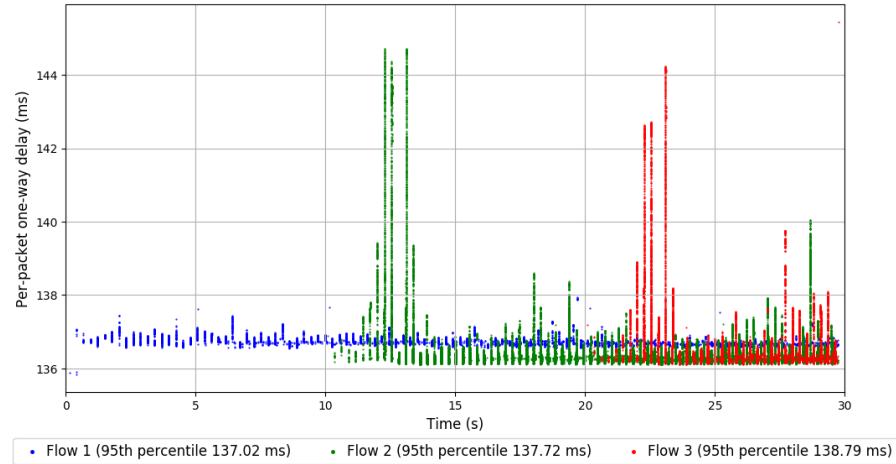
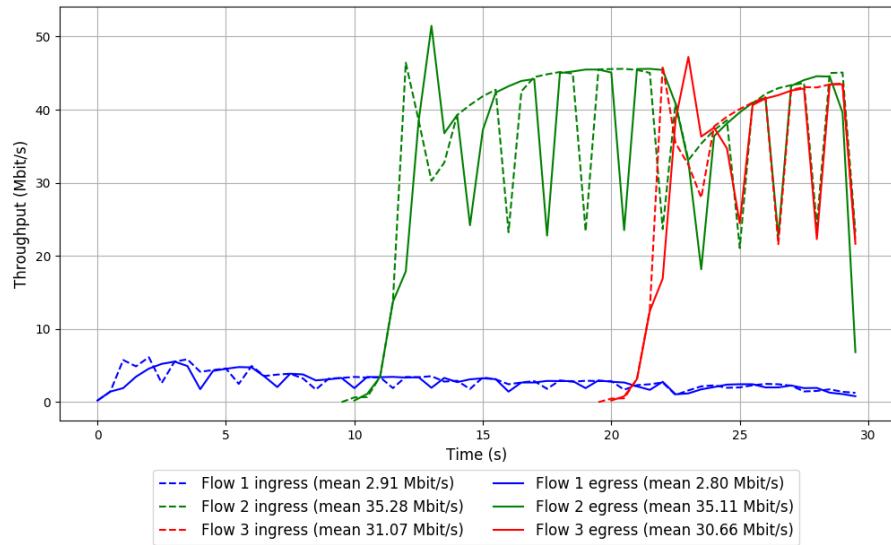


```
Run 8: Statistics of TCP Cubic

Start at: 2017-08-12 14:18:48
End at: 2017-08-12 14:19:18

# Below is generated by plot.py at 2017-08-12 17:54:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 36.12 Mbit/s
95th percentile per-packet one-way delay: 137.957 ms
Loss rate: 2.68%
-- Flow 1:
Average throughput: 2.80 Mbit/s
95th percentile per-packet one-way delay: 137.017 ms
Loss rate: 4.51%
-- Flow 2:
Average throughput: 35.11 Mbit/s
95th percentile per-packet one-way delay: 137.722 ms
Loss rate: 1.87%
-- Flow 3:
Average throughput: 30.66 Mbit/s
95th percentile per-packet one-way delay: 138.795 ms
Loss rate: 4.02%
```

Run 8: Report of TCP Cubic — Data Link

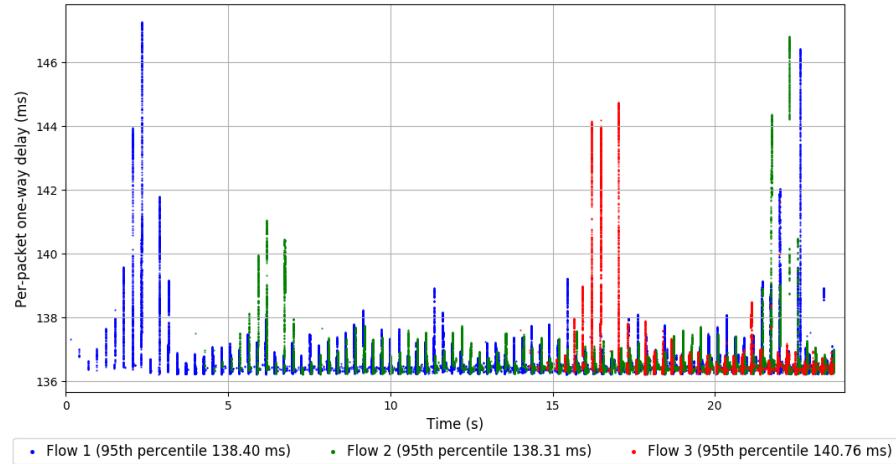
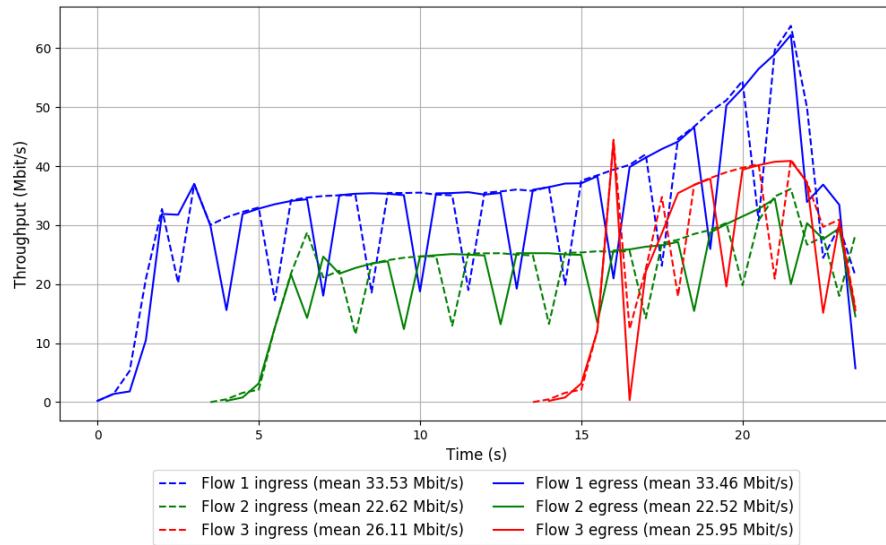


Run 9: Statistics of TCP Cubic

Start at: 2017-08-12 14:32:46

End at: 2017-08-12 14:33:16

Run 9: Report of TCP Cubic — Data Link



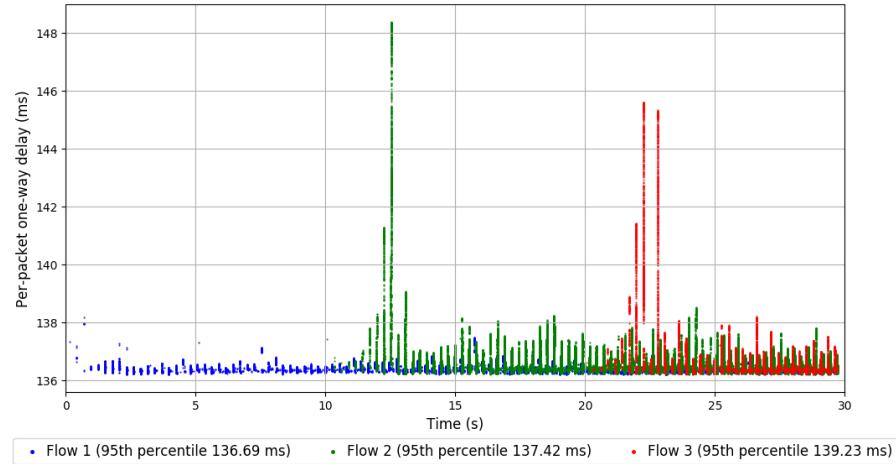
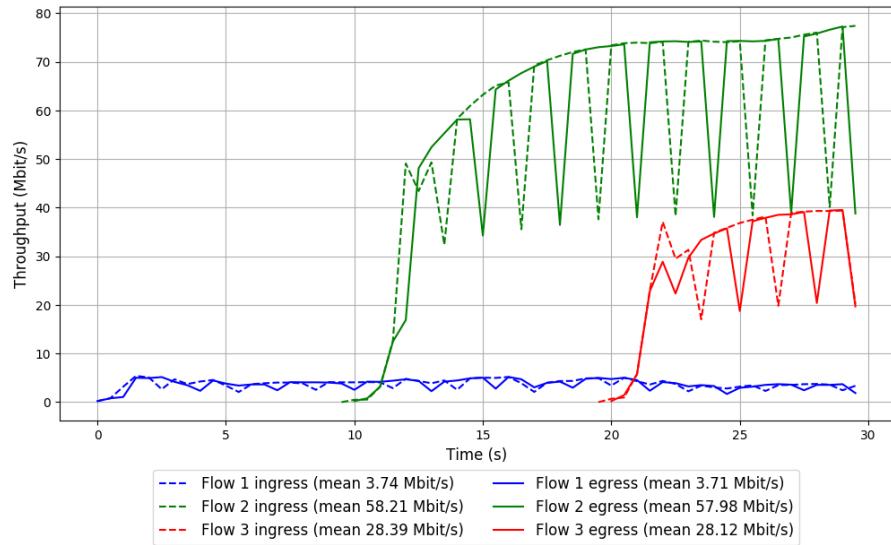
Run 10: Statistics of TCP Cubic

Start at: 2017-08-12 14:46:49

End at: 2017-08-12 14:47:19

```
# Below is generated by plot.py at 2017-08-12 17:54:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 51.43 Mbit/s
95th percentile per-packet one-way delay: 137.546 ms
Loss rate: 2.11%
-- Flow 1:
Average throughput: 3.71 Mbit/s
95th percentile per-packet one-way delay: 136.693 ms
Loss rate: 1.68%
-- Flow 2:
Average throughput: 57.98 Mbit/s
95th percentile per-packet one-way delay: 137.422 ms
Loss rate: 1.77%
-- Flow 3:
Average throughput: 28.12 Mbit/s
95th percentile per-packet one-way delay: 139.234 ms
Loss rate: 3.65%
```

Run 10: Report of TCP Cubic — Data Link

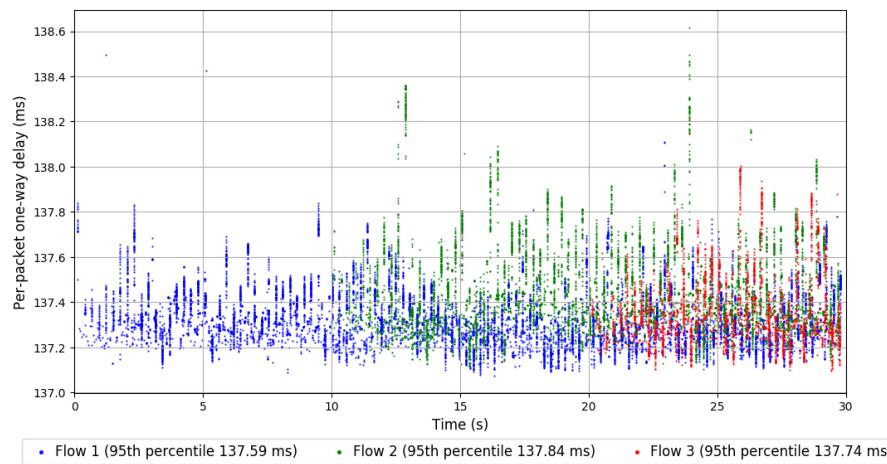
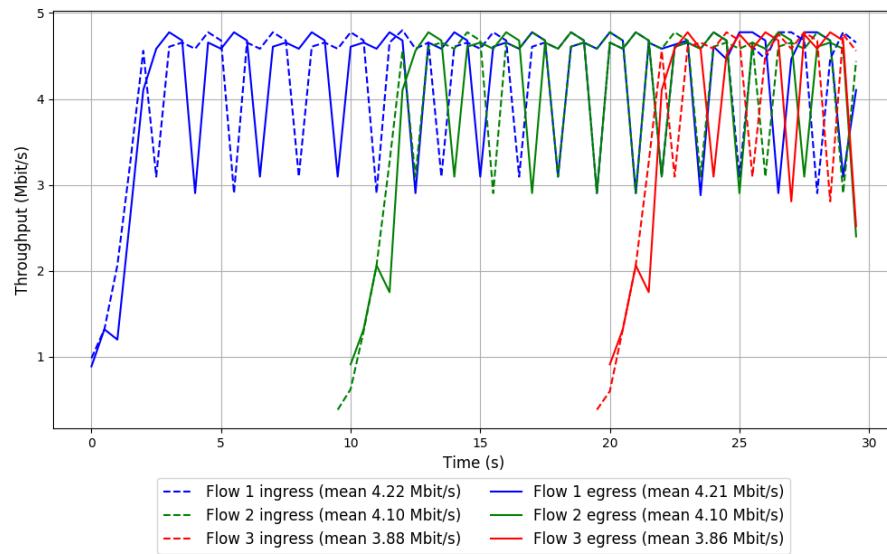


```
Run 1: Statistics of KohoCC

Start at: 2017-08-12 12:43:34
End at: 2017-08-12 12:44:04

# Below is generated by plot.py at 2017-08-12 17:54:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.18 Mbit/s
95th percentile per-packet one-way delay: 137.718 ms
Loss rate: 1.56%
-- Flow 1:
Average throughput: 4.21 Mbit/s
95th percentile per-packet one-way delay: 137.587 ms
Loss rate: 1.09%
-- Flow 2:
Average throughput: 4.10 Mbit/s
95th percentile per-packet one-way delay: 137.840 ms
Loss rate: 1.48%
-- Flow 3:
Average throughput: 3.86 Mbit/s
95th percentile per-packet one-way delay: 137.739 ms
Loss rate: 3.24%
```

Run 1: Report of KohoCC — Data Link



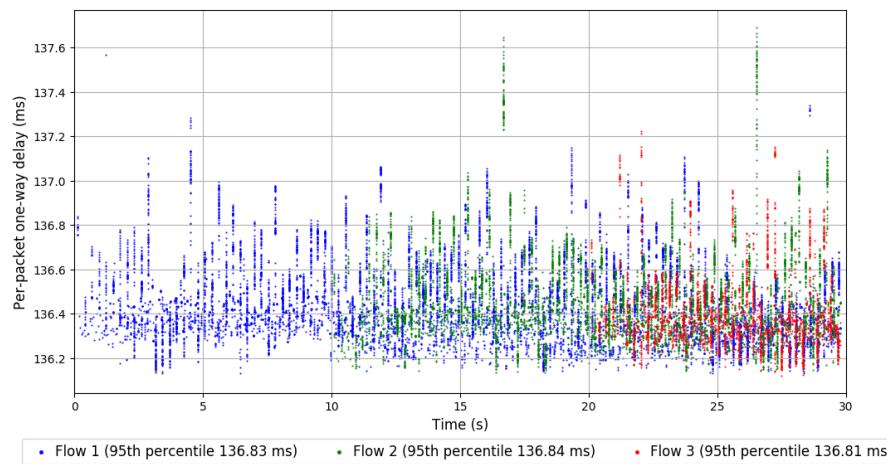
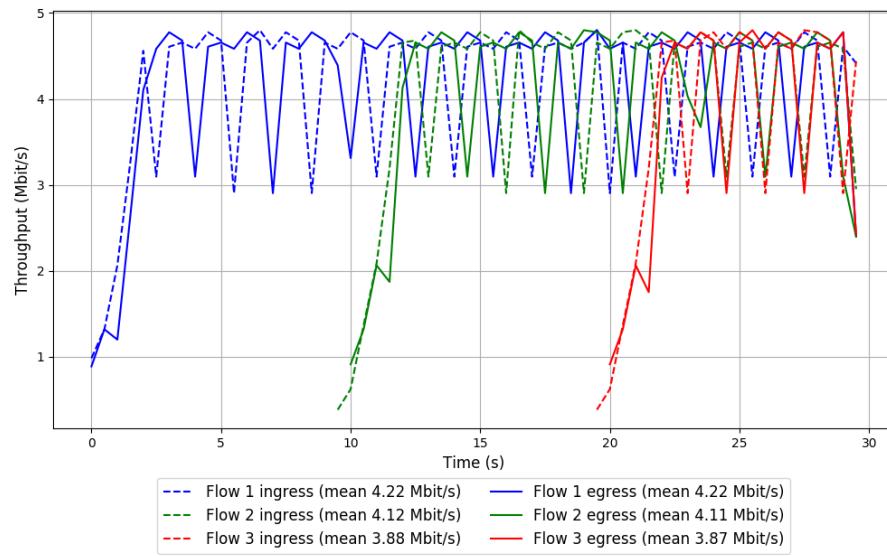
Run 2: Statistics of KohoCC

Start at: 2017-08-12 12:57:27

End at: 2017-08-12 12:57:57

```
# Below is generated by plot.py at 2017-08-12 17:54:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.20 Mbit/s
95th percentile per-packet one-way delay: 136.831 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 4.22 Mbit/s
95th percentile per-packet one-way delay: 136.826 ms
Loss rate: 0.95%
-- Flow 2:
Average throughput: 4.11 Mbit/s
95th percentile per-packet one-way delay: 136.844 ms
Loss rate: 1.46%
-- Flow 3:
Average throughput: 3.87 Mbit/s
95th percentile per-packet one-way delay: 136.812 ms
Loss rate: 3.11%
```

Run 2: Report of KohoCC — Data Link



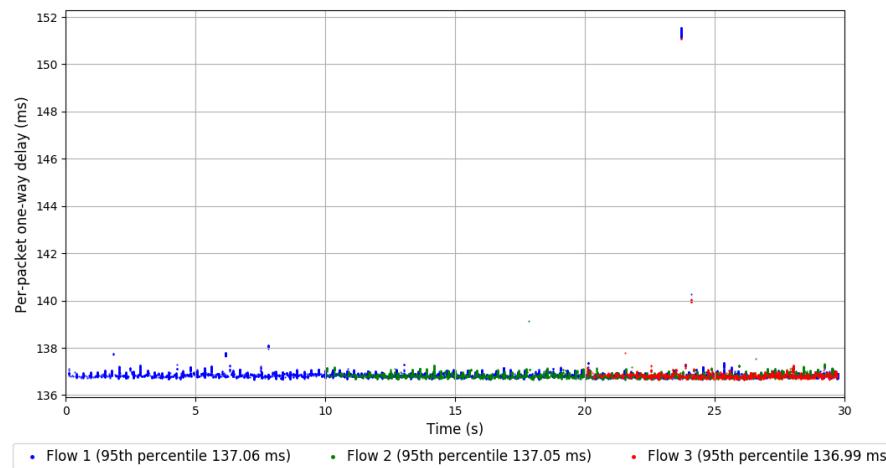
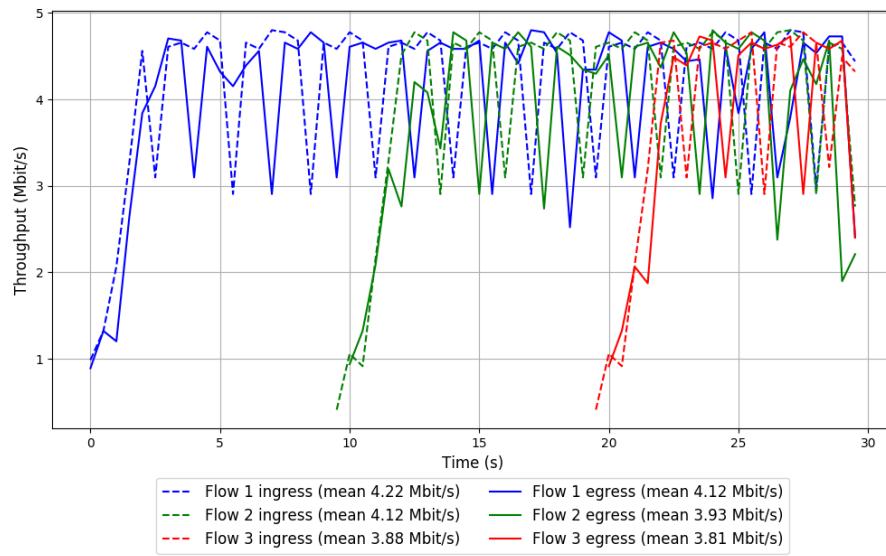
Run 3: Statistics of KohoCC

Start at: 2017-08-12 13:11:28

End at: 2017-08-12 13:11:58

```
# Below is generated by plot.py at 2017-08-12 17:54:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.97 Mbit/s
95th percentile per-packet one-way delay: 137.046 ms
Loss rate: 4.34%
-- Flow 1:
Average throughput: 4.12 Mbit/s
95th percentile per-packet one-way delay: 137.060 ms
Loss rate: 3.34%
-- Flow 2:
Average throughput: 3.93 Mbit/s
95th percentile per-packet one-way delay: 137.046 ms
Loss rate: 5.83%
-- Flow 3:
Average throughput: 3.81 Mbit/s
95th percentile per-packet one-way delay: 136.987 ms
Loss rate: 4.43%
```

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



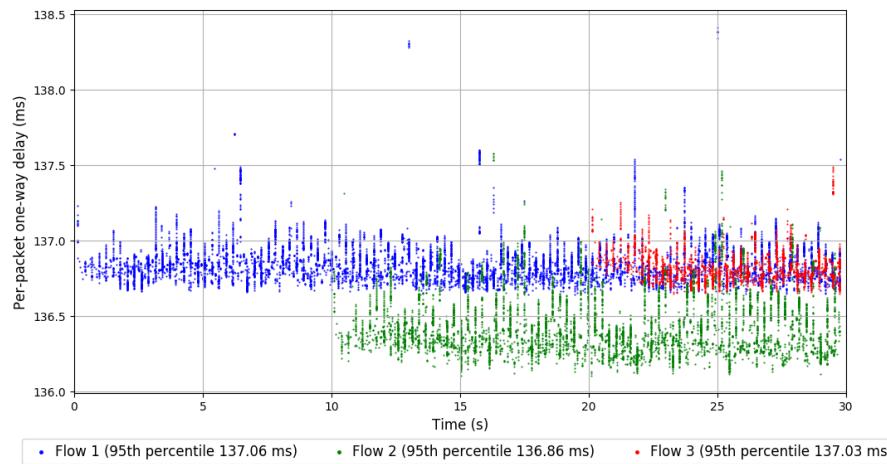
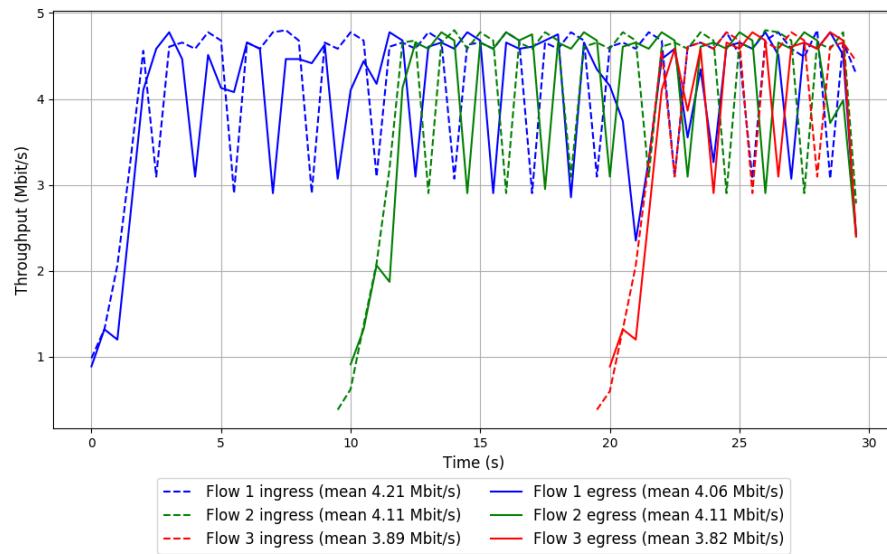
Run 4: Statistics of KohoCC

Start at: 2017-08-12 13:25:19

End at: 2017-08-12 13:25:49

```
# Below is generated by plot.py at 2017-08-12 17:54:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.02 Mbit/s
95th percentile per-packet one-way delay: 137.026 ms
Loss rate: 3.52%
-- Flow 1:
Average throughput: 4.06 Mbit/s
95th percentile per-packet one-way delay: 137.059 ms
Loss rate: 4.58%
-- Flow 2:
Average throughput: 4.11 Mbit/s
95th percentile per-packet one-way delay: 136.858 ms
Loss rate: 1.46%
-- Flow 3:
Average throughput: 3.82 Mbit/s
95th percentile per-packet one-way delay: 137.026 ms
Loss rate: 4.43%
```

Run 4: Report of KohoCC — Data Link



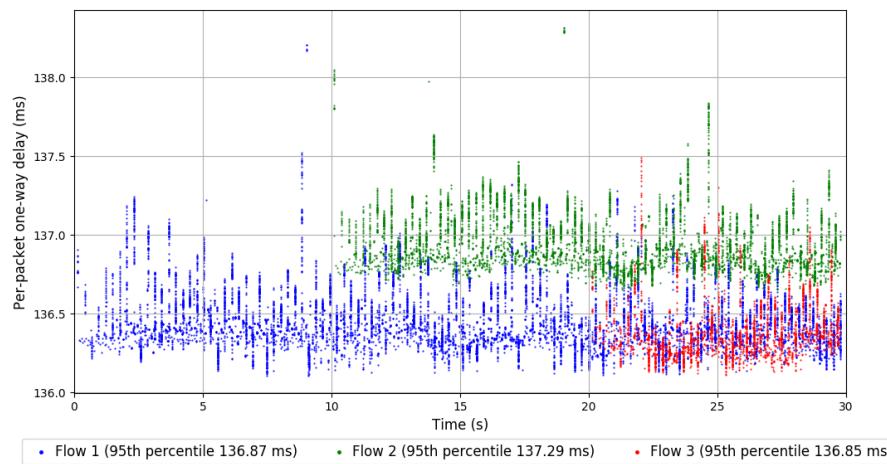
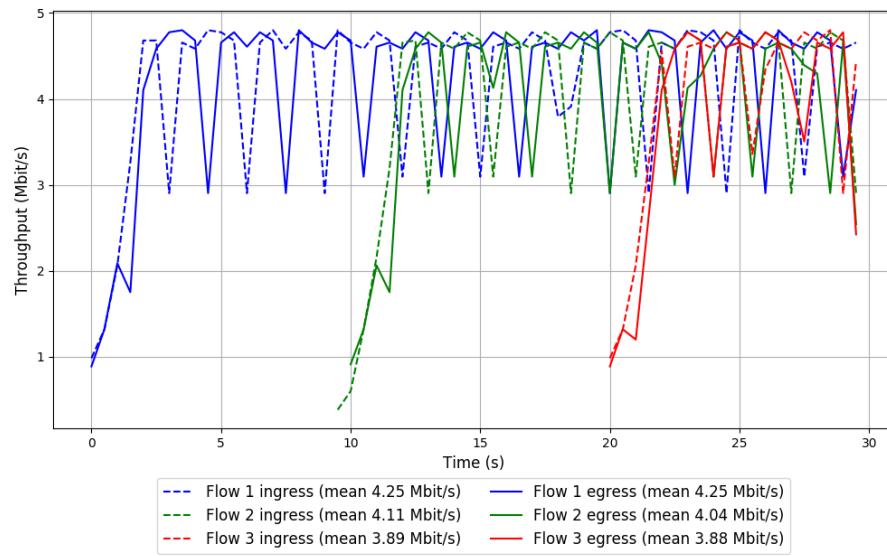
Run 5: Statistics of KohoCC

Start at: 2017-08-12 13:39:55

End at: 2017-08-12 13:40:25

```
# Below is generated by plot.py at 2017-08-12 17:54:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.19 Mbit/s
95th percentile per-packet one-way delay: 137.180 ms
Loss rate: 1.97%
-- Flow 1:
Average throughput: 4.25 Mbit/s
95th percentile per-packet one-way delay: 136.874 ms
Loss rate: 0.94%
-- Flow 2:
Average throughput: 4.04 Mbit/s
95th percentile per-packet one-way delay: 137.292 ms
Loss rate: 3.02%
-- Flow 3:
Average throughput: 3.88 Mbit/s
95th percentile per-packet one-way delay: 136.848 ms
Loss rate: 3.11%
```

Run 5: Report of KohoCC — Data Link



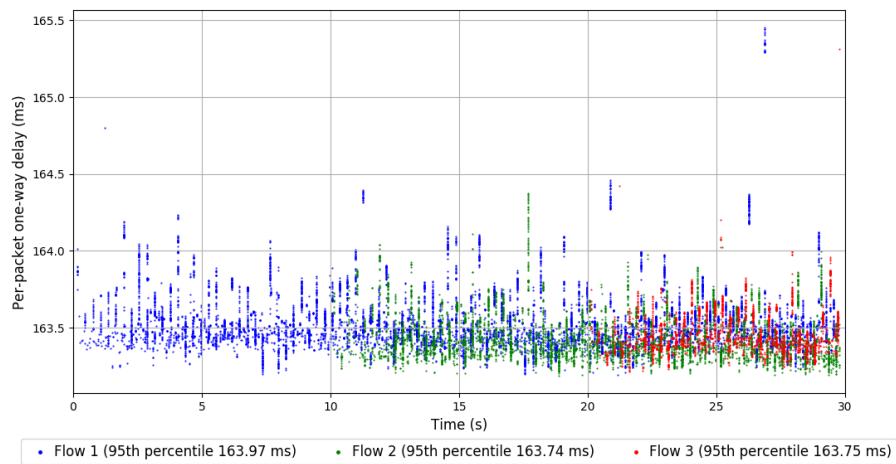
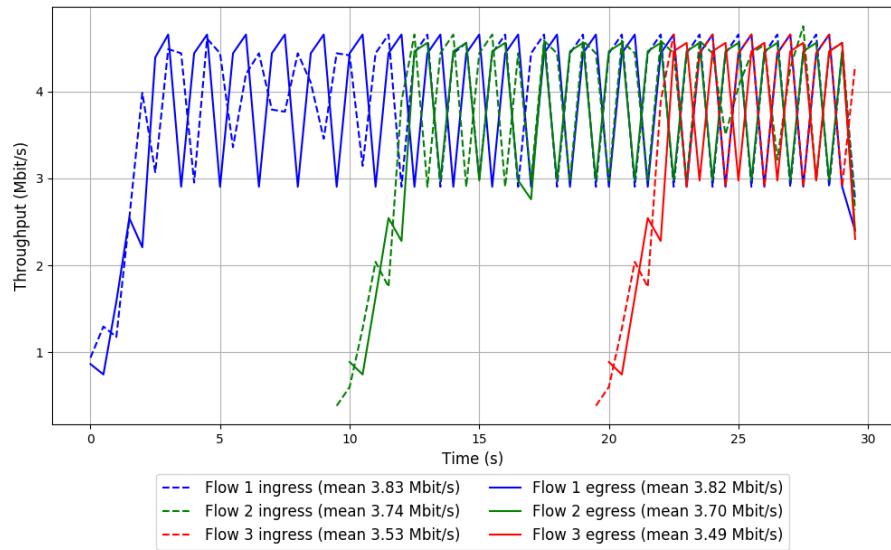
Run 6: Statistics of KohoCC

Start at: 2017-08-12 13:53:38

End at: 2017-08-12 13:54:08

```
# Below is generated by plot.py at 2017-08-12 17:54:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.41 Mbit/s
95th percentile per-packet one-way delay: 163.842 ms
Loss rate: 1.98%
-- Flow 1:
Average throughput: 3.82 Mbit/s
95th percentile per-packet one-way delay: 163.965 ms
Loss rate: 1.05%
-- Flow 2:
Average throughput: 3.70 Mbit/s
95th percentile per-packet one-way delay: 163.738 ms
Loss rate: 2.75%
-- Flow 3:
Average throughput: 3.49 Mbit/s
95th percentile per-packet one-way delay: 163.746 ms
Loss rate: 3.40%
```

Run 6: Report of KohoCC — Data Link



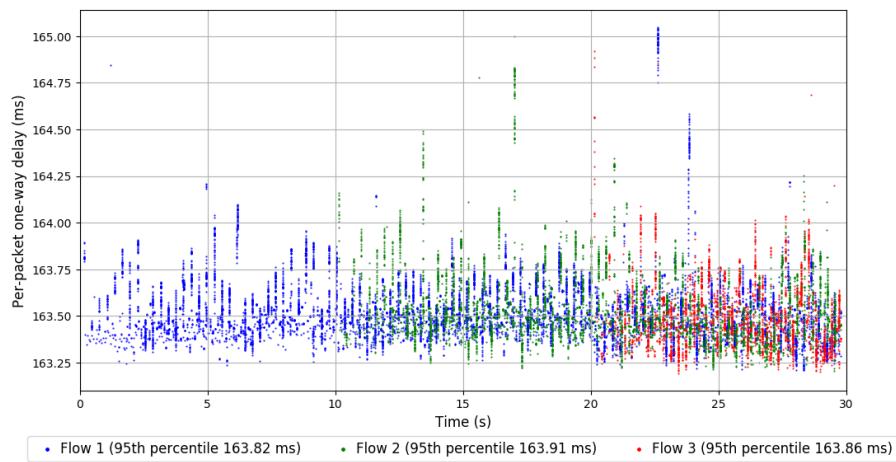
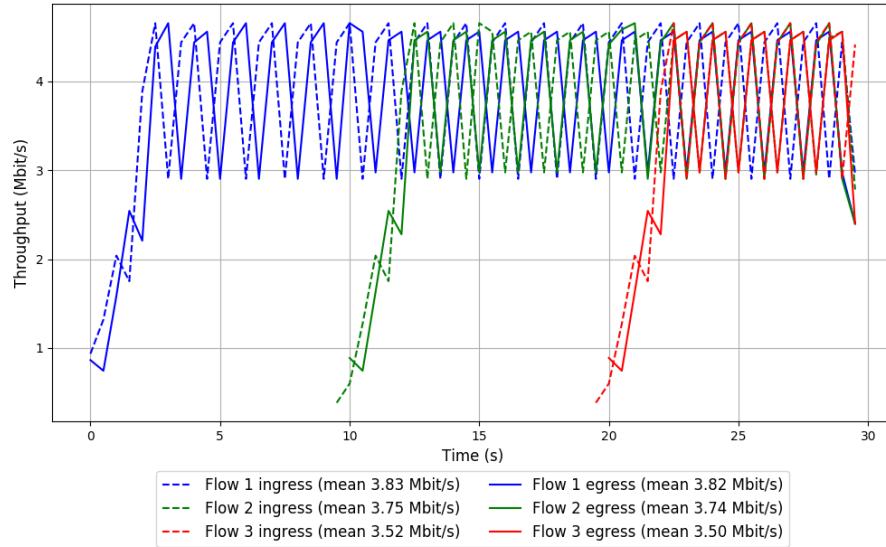
Run 7: Statistics of KohoCC

Start at: 2017-08-12 14:06:48

End at: 2017-08-12 14:07:18

```
# Below is generated by plot.py at 2017-08-12 17:54:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.45 Mbit/s
95th percentile per-packet one-way delay: 163.857 ms
Loss rate: 1.64%
-- Flow 1:
Average throughput: 3.82 Mbit/s
95th percentile per-packet one-way delay: 163.819 ms
Loss rate: 1.09%
-- Flow 2:
Average throughput: 3.74 Mbit/s
95th percentile per-packet one-way delay: 163.905 ms
Loss rate: 1.65%
-- Flow 3:
Average throughput: 3.50 Mbit/s
95th percentile per-packet one-way delay: 163.860 ms
Loss rate: 3.43%
```

Run 7: Report of KohoCC — Data Link



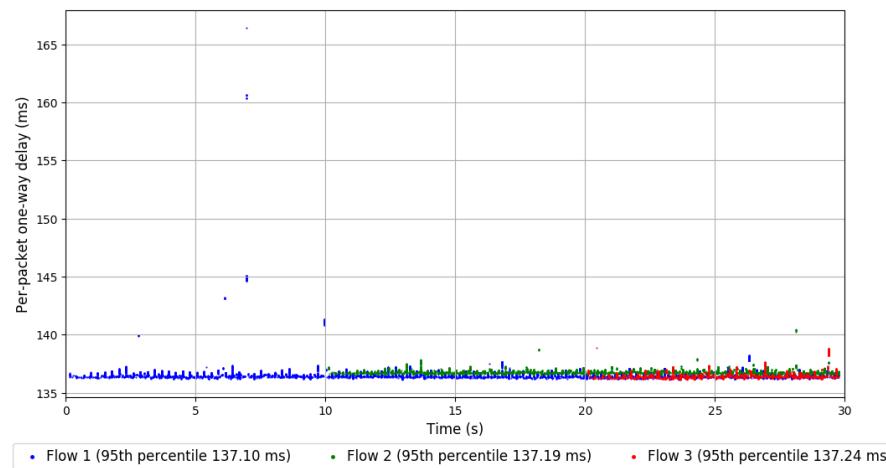
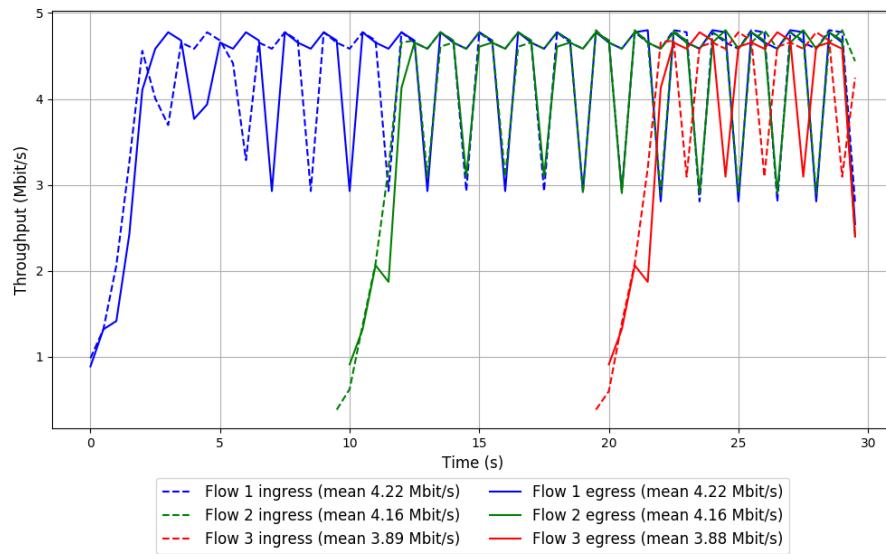
Run 8: Statistics of KohoCC

Start at: 2017-08-12 14:20:29

End at: 2017-08-12 14:20:59

```
# Below is generated by plot.py at 2017-08-12 17:54:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.24 Mbit/s
95th percentile per-packet one-way delay: 137.160 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 4.22 Mbit/s
95th percentile per-packet one-way delay: 137.096 ms
Loss rate: 0.95%
-- Flow 2:
Average throughput: 4.16 Mbit/s
95th percentile per-packet one-way delay: 137.190 ms
Loss rate: 1.45%
-- Flow 3:
Average throughput: 3.88 Mbit/s
95th percentile per-packet one-way delay: 137.235 ms
Loss rate: 3.11%
```

## Run 8: Report of KohoCC — Data Link



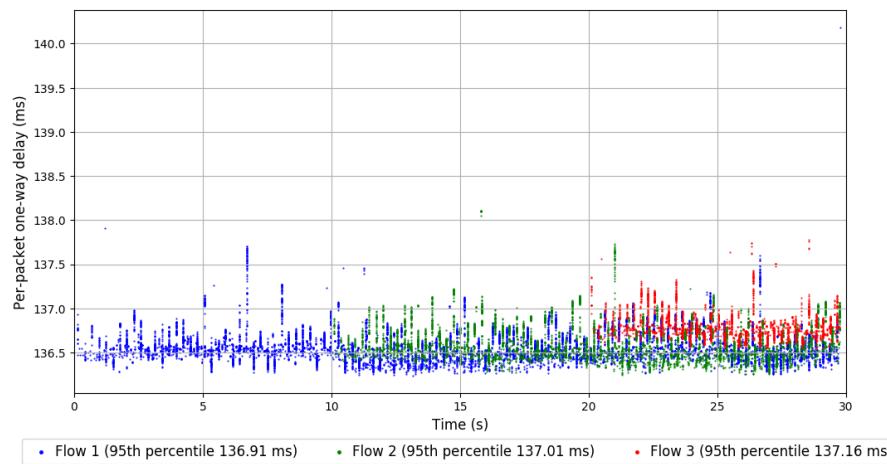
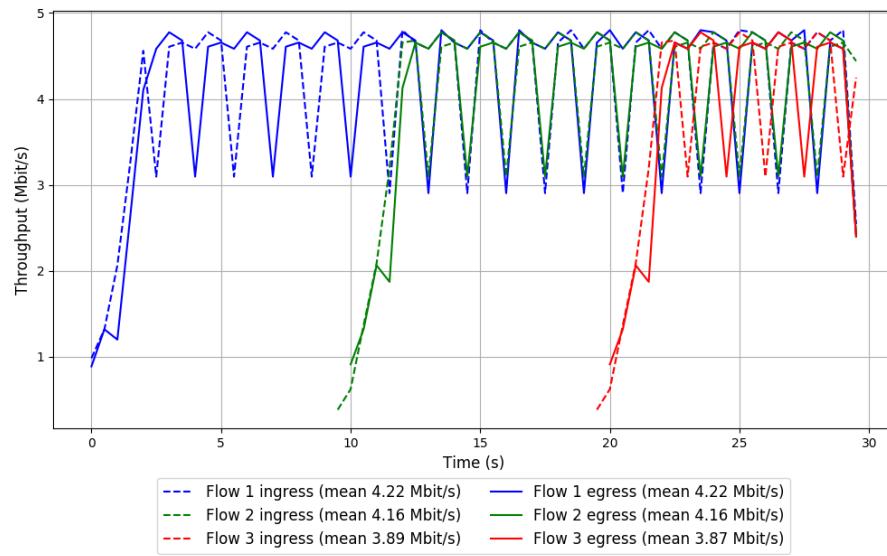
Run 9: Statistics of KohoCC

Start at: 2017-08-12 14:34:30

End at: 2017-08-12 14:35:00

```
# Below is generated by plot.py at 2017-08-12 17:54:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.23 Mbit/s
95th percentile per-packet one-way delay: 137.008 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 4.22 Mbit/s
95th percentile per-packet one-way delay: 136.905 ms
Loss rate: 0.94%
-- Flow 2:
Average throughput: 4.16 Mbit/s
95th percentile per-packet one-way delay: 137.007 ms
Loss rate: 1.45%
-- Flow 3:
Average throughput: 3.87 Mbit/s
95th percentile per-packet one-way delay: 137.156 ms
Loss rate: 3.11%
```

Run 9: Report of KohoCC — Data Link



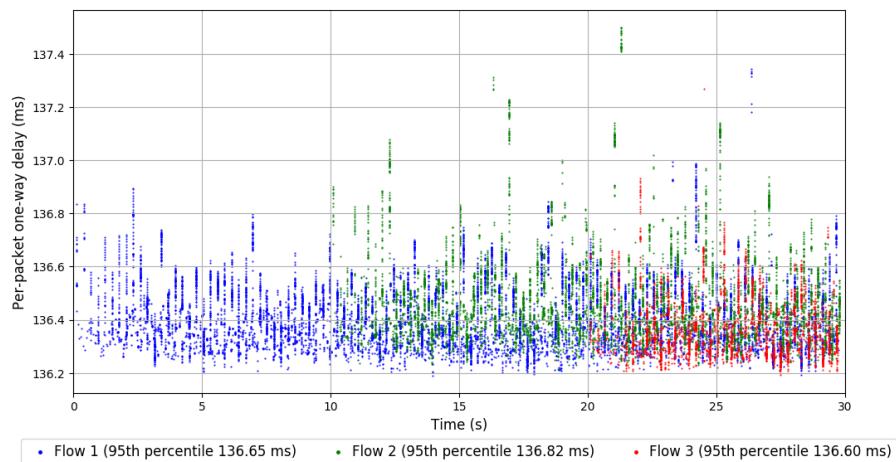
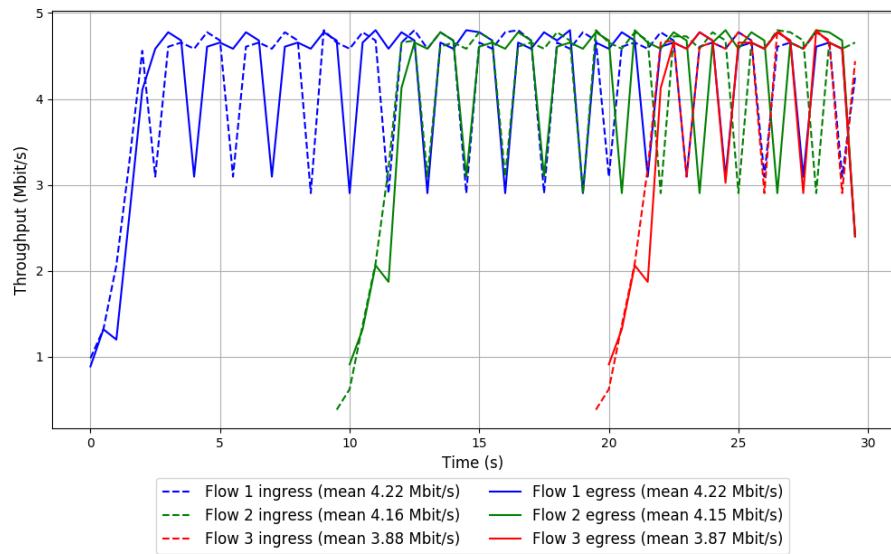
Run 10: Statistics of KohoCC

Start at: 2017-08-12 14:48:32

End at: 2017-08-12 14:49:02

```
# Below is generated by plot.py at 2017-08-12 17:54:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.24 Mbit/s
95th percentile per-packet one-way delay: 136.692 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 4.22 Mbit/s
95th percentile per-packet one-way delay: 136.645 ms
Loss rate: 0.95%
-- Flow 2:
Average throughput: 4.15 Mbit/s
95th percentile per-packet one-way delay: 136.825 ms
Loss rate: 1.45%
-- Flow 3:
Average throughput: 3.87 Mbit/s
95th percentile per-packet one-way delay: 136.600 ms
Loss rate: 3.14%
```

Run 10: Report of KohoCC — Data Link

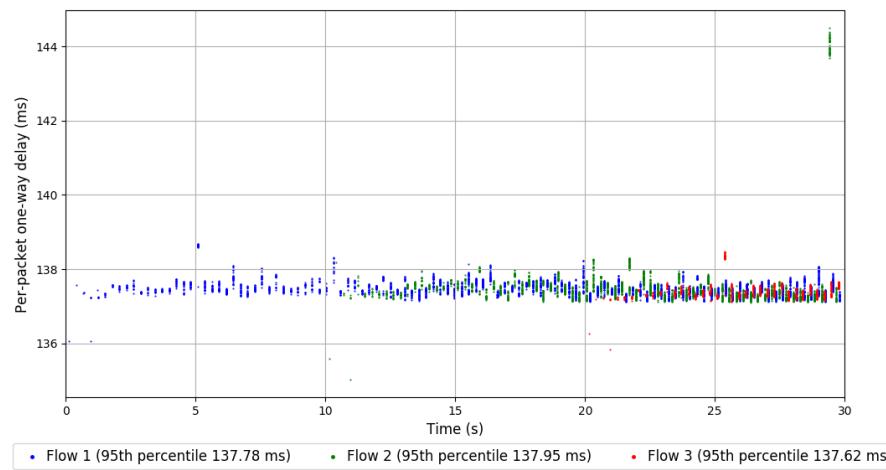
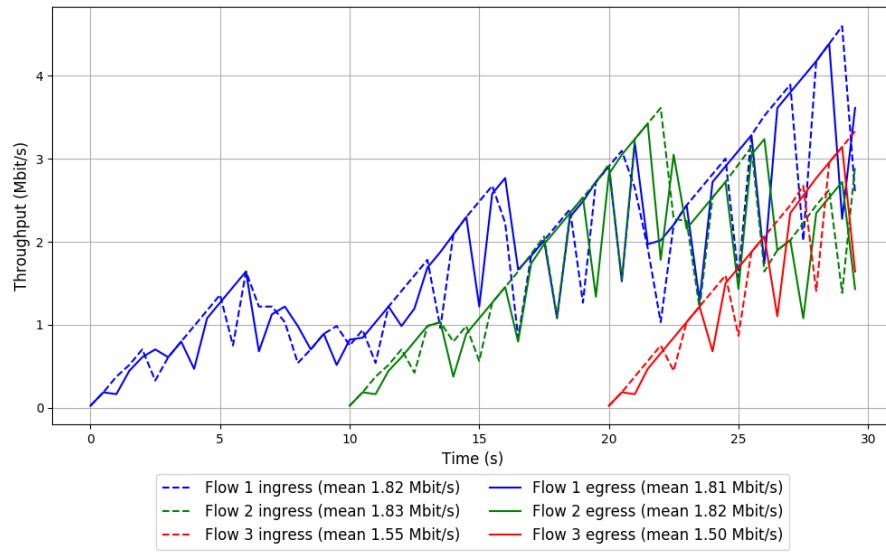


```
Run 1: Statistics of LEDBAT

Start at: 2017-08-12 12:36:55
End at: 2017-08-12 12:37:25

# Below is generated by plot.py at 2017-08-12 17:54:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.50 Mbit/s
95th percentile per-packet one-way delay: 137.820 ms
Loss rate: 2.10%
-- Flow 1:
Average throughput: 1.81 Mbit/s
95th percentile per-packet one-way delay: 137.781 ms
Loss rate: 1.19%
-- Flow 2:
Average throughput: 1.82 Mbit/s
95th percentile per-packet one-way delay: 137.951 ms
Loss rate: 2.04%
-- Flow 3:
Average throughput: 1.50 Mbit/s
95th percentile per-packet one-way delay: 137.617 ms
Loss rate: 5.52%
```

Run 1: Report of LEDBAT — Data Link



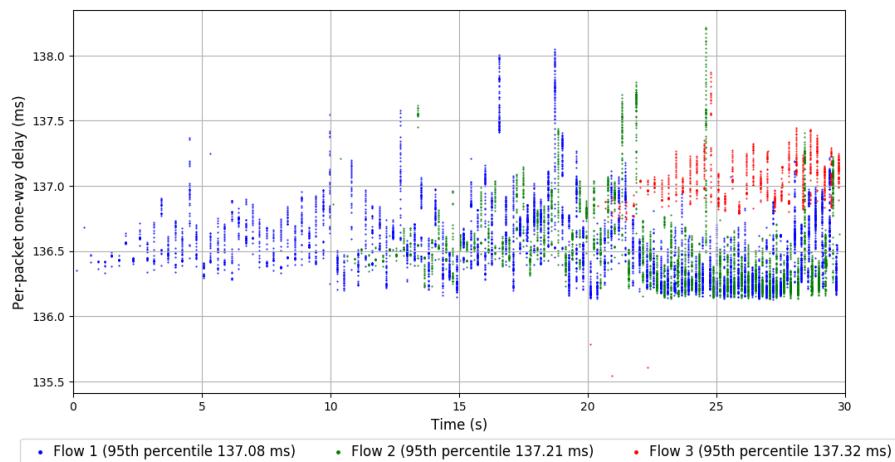
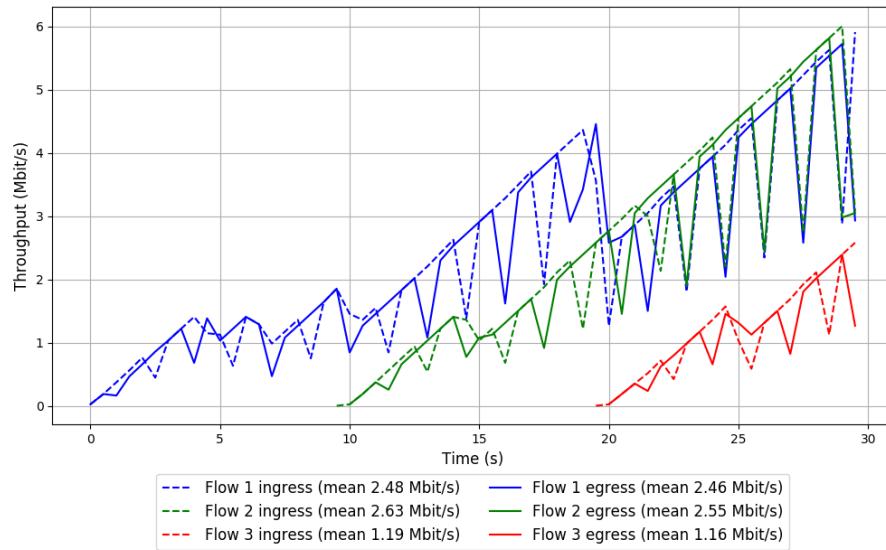
Run 2: Statistics of LEDBAT

Start at: 2017-08-12 12:51:03

End at: 2017-08-12 12:51:33

```
# Below is generated by plot.py at 2017-08-12 17:54:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.51 Mbit/s
95th percentile per-packet one-way delay: 137.216 ms
Loss rate: 2.67%
-- Flow 1:
Average throughput: 2.46 Mbit/s
95th percentile per-packet one-way delay: 137.077 ms
Loss rate: 2.01%
-- Flow 2:
Average throughput: 2.55 Mbit/s
95th percentile per-packet one-way delay: 137.211 ms
Loss rate: 2.95%
-- Flow 3:
Average throughput: 1.16 Mbit/s
95th percentile per-packet one-way delay: 137.324 ms
Loss rate: 5.57%
```

Run 2: Report of LEDBAT — Data Link



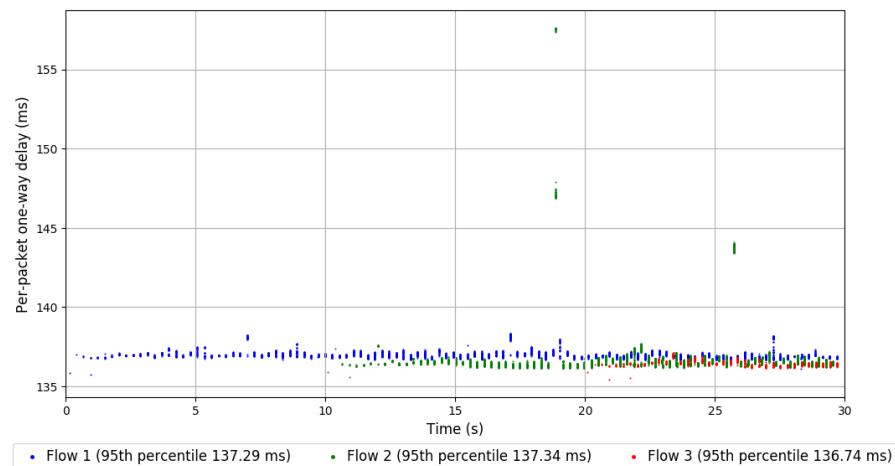
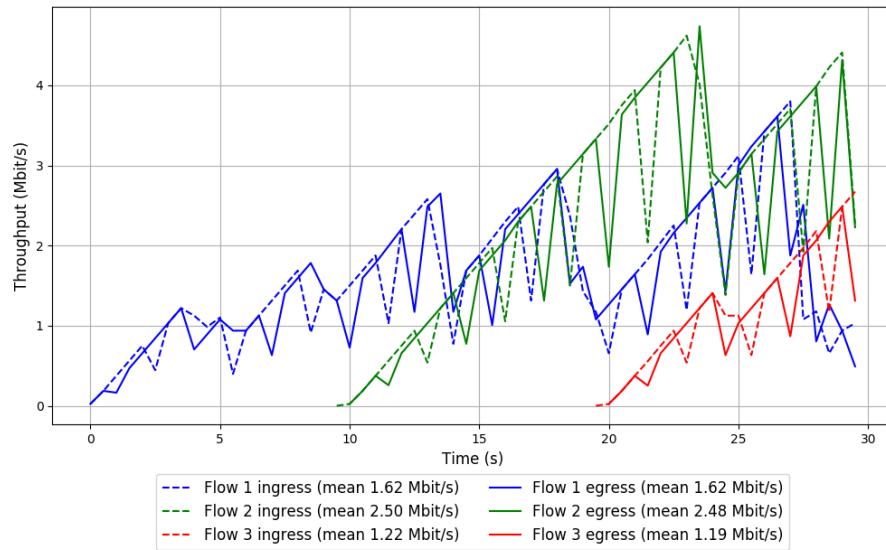
Run 3: Statistics of LEDBAT

Start at: 2017-08-12 13:04:51

End at: 2017-08-12 13:05:21

```
# Below is generated by plot.py at 2017-08-12 17:54:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.63 Mbit/s
95th percentile per-packet one-way delay: 137.261 ms
Loss rate: 2.04%
-- Flow 1:
Average throughput: 1.62 Mbit/s
95th percentile per-packet one-way delay: 137.291 ms
Loss rate: 0.88%
-- Flow 2:
Average throughput: 2.48 Mbit/s
95th percentile per-packet one-way delay: 137.341 ms
Loss rate: 2.31%
-- Flow 3:
Average throughput: 1.19 Mbit/s
95th percentile per-packet one-way delay: 136.737 ms
Loss rate: 5.63%
```

Run 3: Report of LEDBAT — Data Link



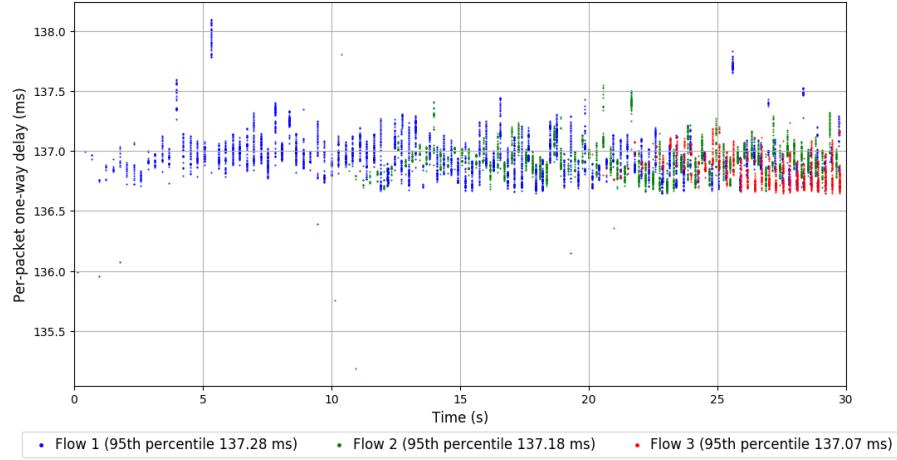
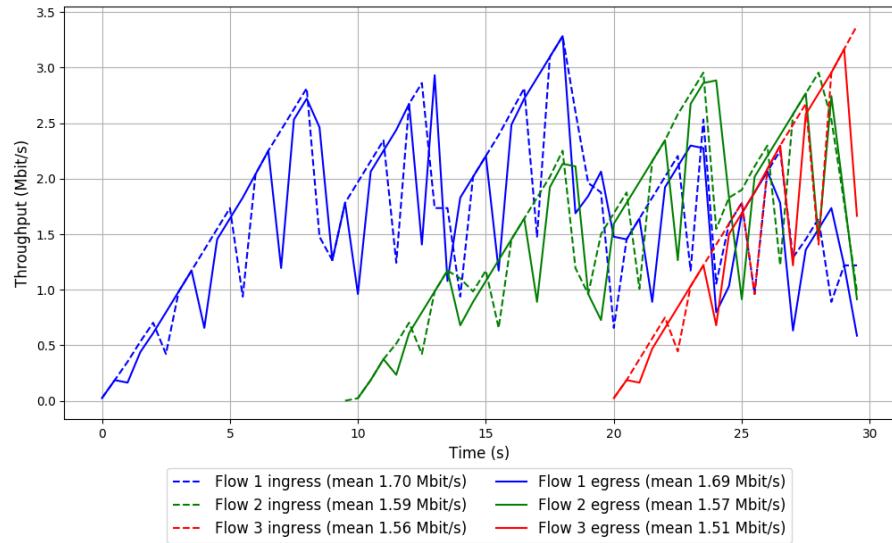
Run 4: Statistics of LEDBAT

Start at: 2017-08-12 13:18:42

End at: 2017-08-12 13:19:12

```
# Below is generated by plot.py at 2017-08-12 17:54:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.21 Mbit/s
95th percentile per-packet one-way delay: 137.226 ms
Loss rate: 2.70%
-- Flow 1:
Average throughput: 1.69 Mbit/s
95th percentile per-packet one-way delay: 137.275 ms
Loss rate: 1.82%
-- Flow 2:
Average throughput: 1.57 Mbit/s
95th percentile per-packet one-way delay: 137.181 ms
Loss rate: 2.72%
-- Flow 3:
Average throughput: 1.51 Mbit/s
95th percentile per-packet one-way delay: 137.067 ms
Loss rate: 5.56%
```

Run 4: Report of LEDBAT — Data Link



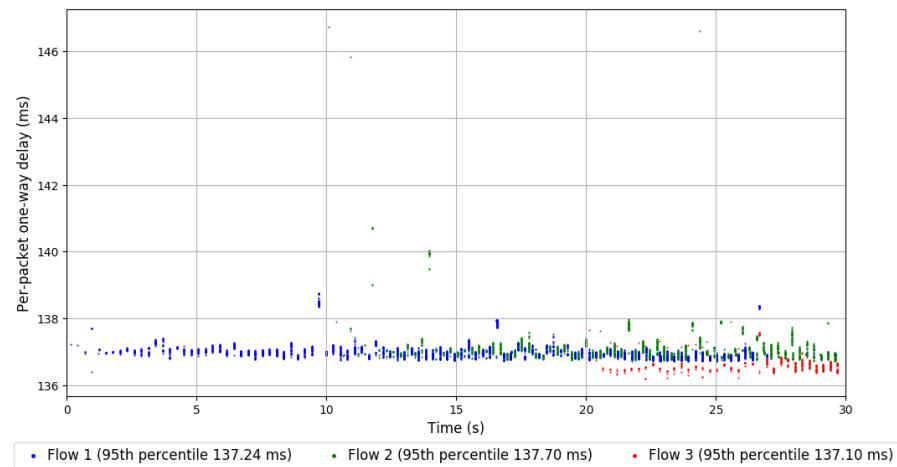
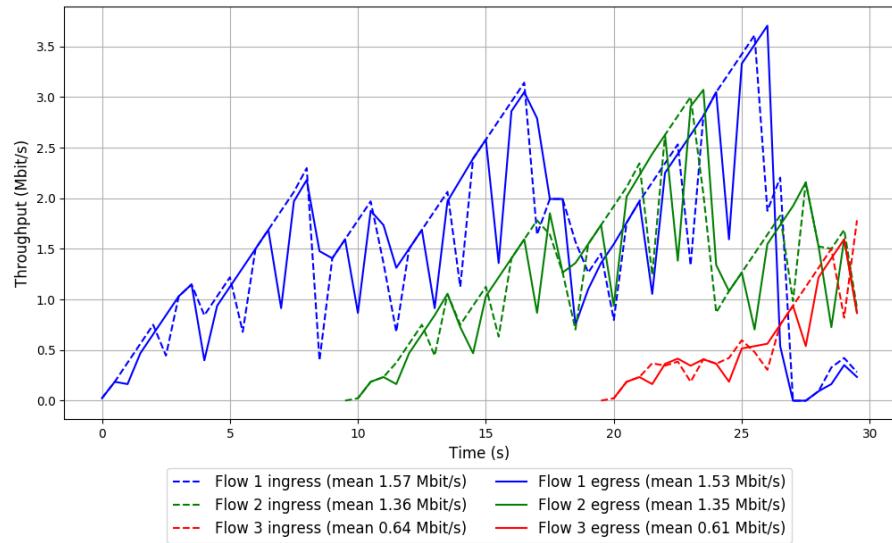
Run 5: Statistics of LEDBAT

Start at: 2017-08-12 13:32:34

End at: 2017-08-12 13:33:04

```
# Below is generated by plot.py at 2017-08-12 17:54:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.62 Mbit/s
95th percentile per-packet one-way delay: 137.393 ms
Loss rate: 2.96%
-- Flow 1:
Average throughput: 1.53 Mbit/s
95th percentile per-packet one-way delay: 137.240 ms
Loss rate: 3.02%
-- Flow 2:
Average throughput: 1.35 Mbit/s
95th percentile per-packet one-way delay: 137.698 ms
Loss rate: 1.83%
-- Flow 3:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 137.101 ms
Loss rate: 7.29%
```

Run 5: Report of LEDBAT — Data Link



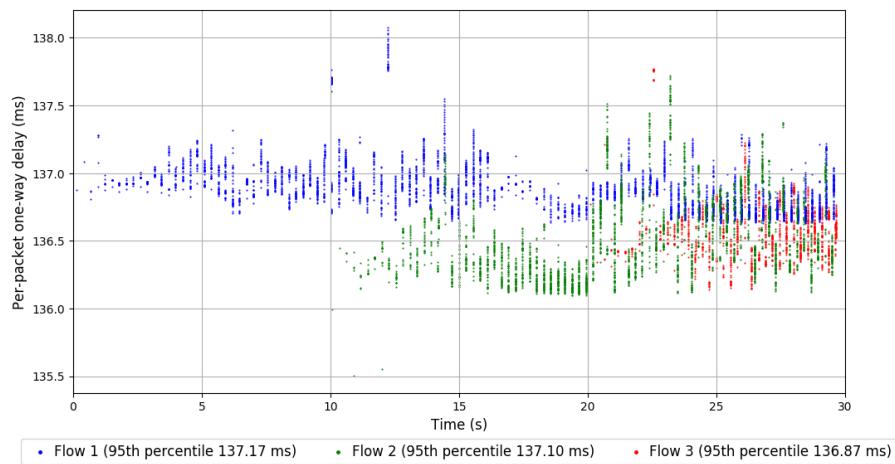
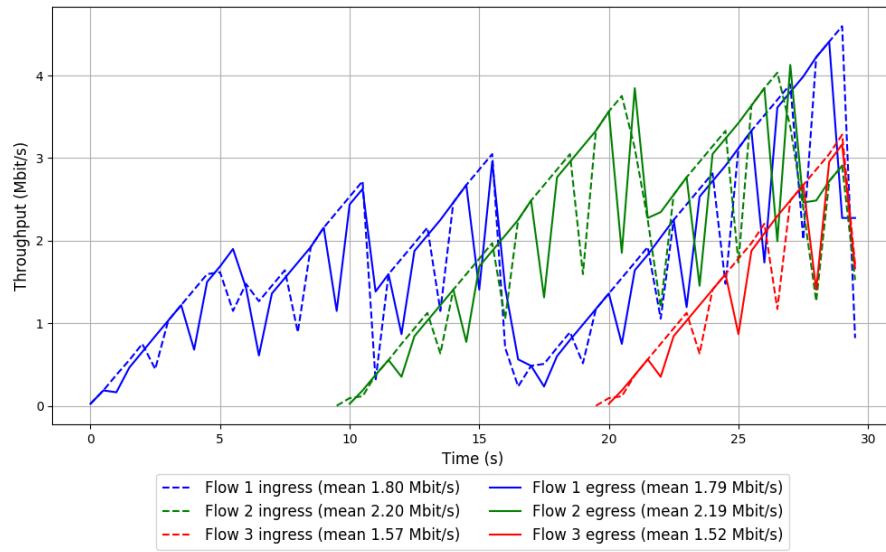
Run 6: Statistics of LEDBAT

Start at: 2017-08-12 13:47:04

End at: 2017-08-12 13:47:34

```
# Below is generated by plot.py at 2017-08-12 17:54:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.72 Mbit/s
95th percentile per-packet one-way delay: 137.145 ms
Loss rate: 2.21%
-- Flow 1:
Average throughput: 1.79 Mbit/s
95th percentile per-packet one-way delay: 137.168 ms
Loss rate: 1.60%
-- Flow 2:
Average throughput: 2.19 Mbit/s
95th percentile per-packet one-way delay: 137.105 ms
Loss rate: 1.76%
-- Flow 3:
Average throughput: 1.52 Mbit/s
95th percentile per-packet one-way delay: 136.868 ms
Loss rate: 5.56%
```

Run 6: Report of LEDBAT — Data Link



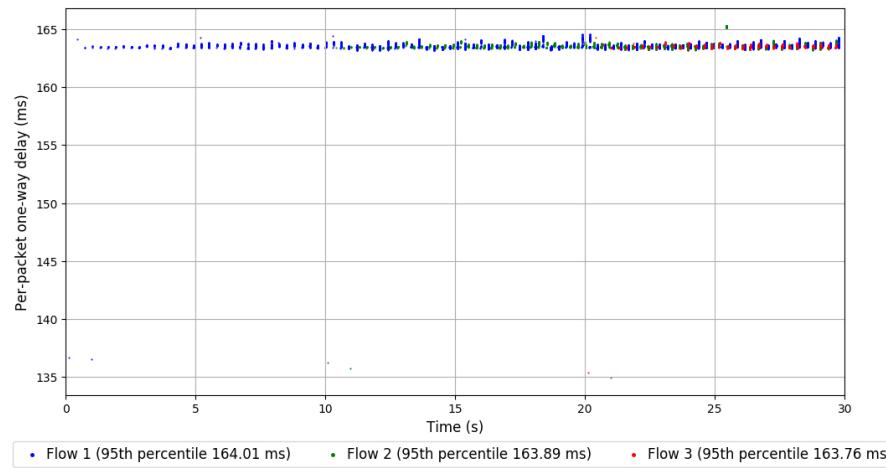
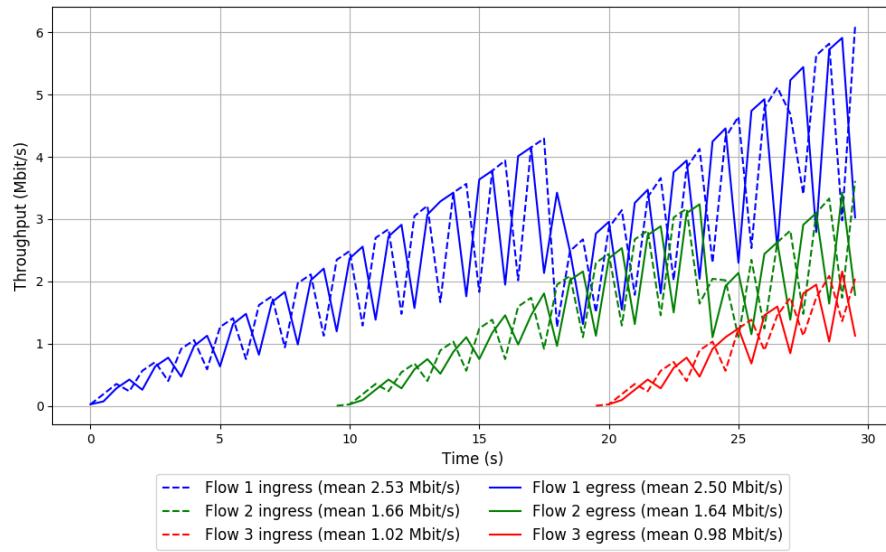
Run 7: Statistics of LEDBAT

Start at: 2017-08-12 14:00:28

End at: 2017-08-12 14:00:58

```
# Below is generated by plot.py at 2017-08-12 17:54:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.90 Mbit/s
95th percentile per-packet one-way delay: 163.973 ms
Loss rate: 2.56%
-- Flow 1:
Average throughput: 2.50 Mbit/s
95th percentile per-packet one-way delay: 164.012 ms
Loss rate: 2.03%
-- Flow 2:
Average throughput: 1.64 Mbit/s
95th percentile per-packet one-way delay: 163.886 ms
Loss rate: 2.78%
-- Flow 3:
Average throughput: 0.98 Mbit/s
95th percentile per-packet one-way delay: 163.758 ms
Loss rate: 5.86%
```

Run 7: Report of LEDBAT — Data Link



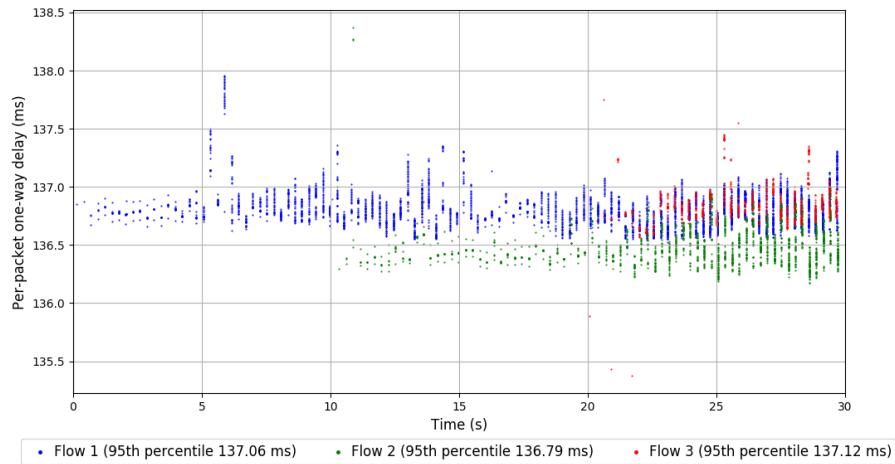
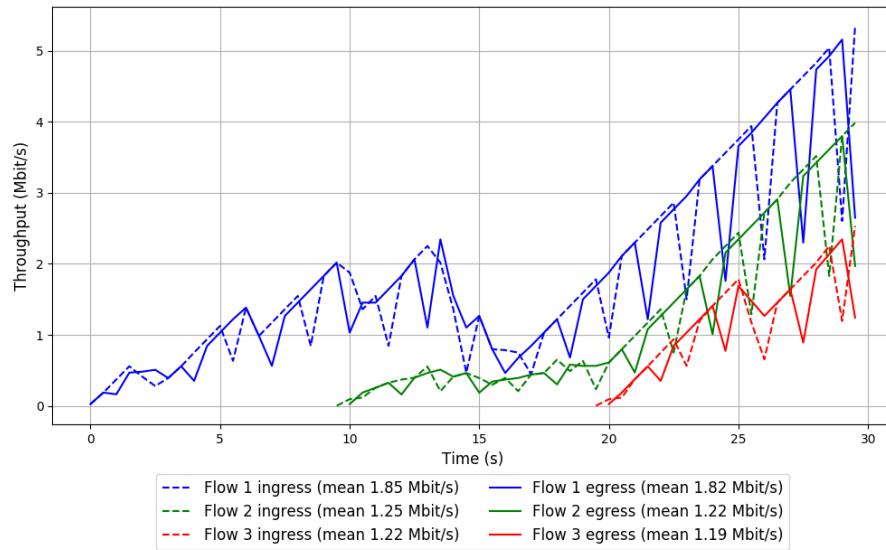
Run 8: Statistics of LEDBAT

Start at: 2017-08-12 14:13:58

End at: 2017-08-12 14:14:28

```
# Below is generated by plot.py at 2017-08-12 17:54:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.01 Mbit/s
95th percentile per-packet one-way delay: 137.028 ms
Loss rate: 3.29%
-- Flow 1:
Average throughput: 1.82 Mbit/s
95th percentile per-packet one-way delay: 137.062 ms
Loss rate: 2.49%
-- Flow 2:
Average throughput: 1.22 Mbit/s
95th percentile per-packet one-way delay: 136.793 ms
Loss rate: 4.05%
-- Flow 3:
Average throughput: 1.19 Mbit/s
95th percentile per-packet one-way delay: 137.123 ms
Loss rate: 5.35%
```

Run 8: Report of LEDBAT — Data Link



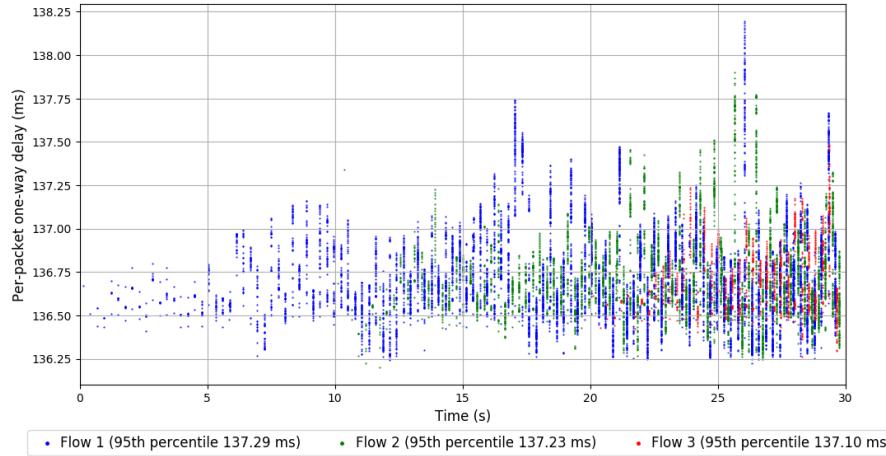
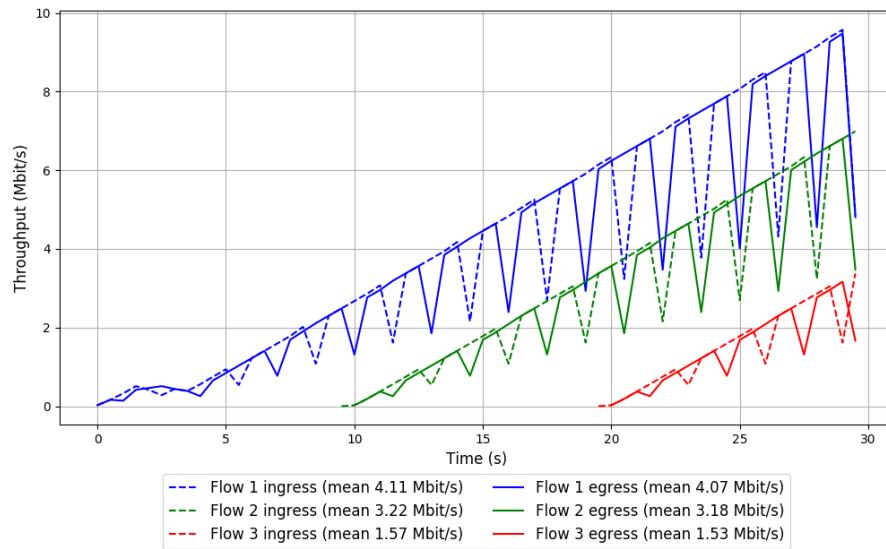
Run 9: Statistics of LEDBAT

Start at: 2017-08-12 14:27:47

End at: 2017-08-12 14:28:17

```
# Below is generated by plot.py at 2017-08-12 17:54:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.64 Mbit/s
95th percentile per-packet one-way delay: 137.234 ms
Loss rate: 2.50%
-- Flow 1:
Average throughput: 4.07 Mbit/s
95th percentile per-packet one-way delay: 137.286 ms
Loss rate: 1.99%
-- Flow 2:
Average throughput: 3.18 Mbit/s
95th percentile per-packet one-way delay: 137.231 ms
Loss rate: 2.74%
-- Flow 3:
Average throughput: 1.53 Mbit/s
95th percentile per-packet one-way delay: 137.097 ms
Loss rate: 5.56%
```

Run 9: Report of LEDBAT — Data Link



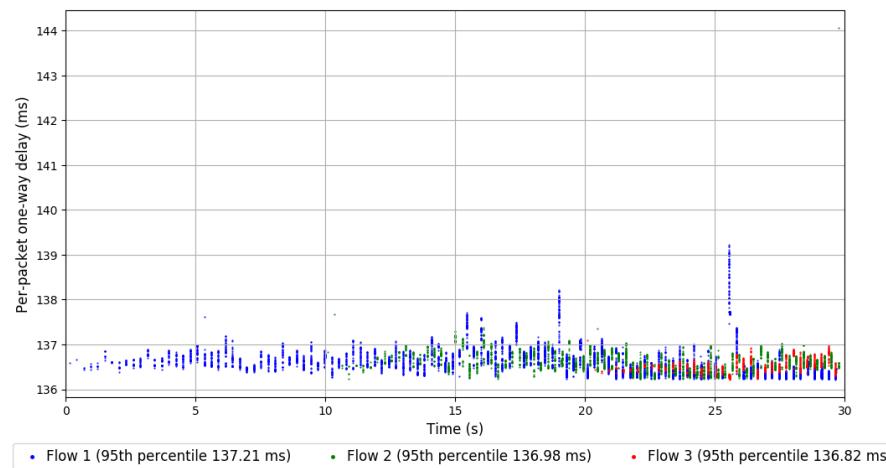
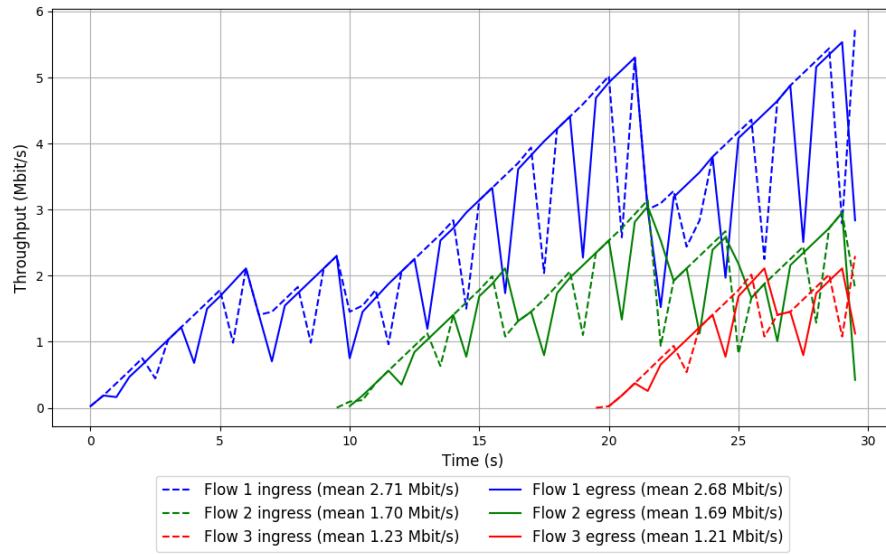
Run 10: Statistics of LEDBAT

Start at: 2017-08-12 14:41:50

End at: 2017-08-12 14:42:20

```
# Below is generated by plot.py at 2017-08-12 17:54:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.18 Mbit/s
95th percentile per-packet one-way delay: 137.067 ms
Loss rate: 2.16%
-- Flow 1:
Average throughput: 2.68 Mbit/s
95th percentile per-packet one-way delay: 137.211 ms
Loss rate: 1.80%
-- Flow 2:
Average throughput: 1.69 Mbit/s
95th percentile per-packet one-way delay: 136.976 ms
Loss rate: 2.04%
-- Flow 3:
Average throughput: 1.21 Mbit/s
95th percentile per-packet one-way delay: 136.817 ms
Loss rate: 4.85%
```

## Run 10: Report of LEDBAT — Data Link

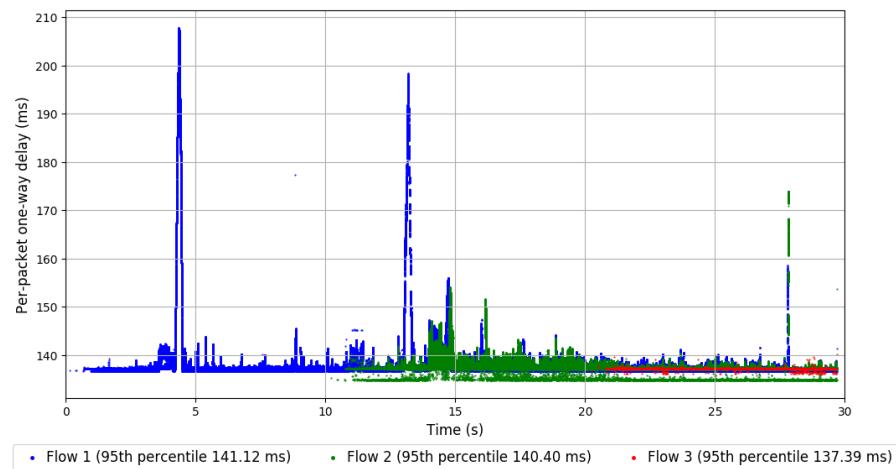
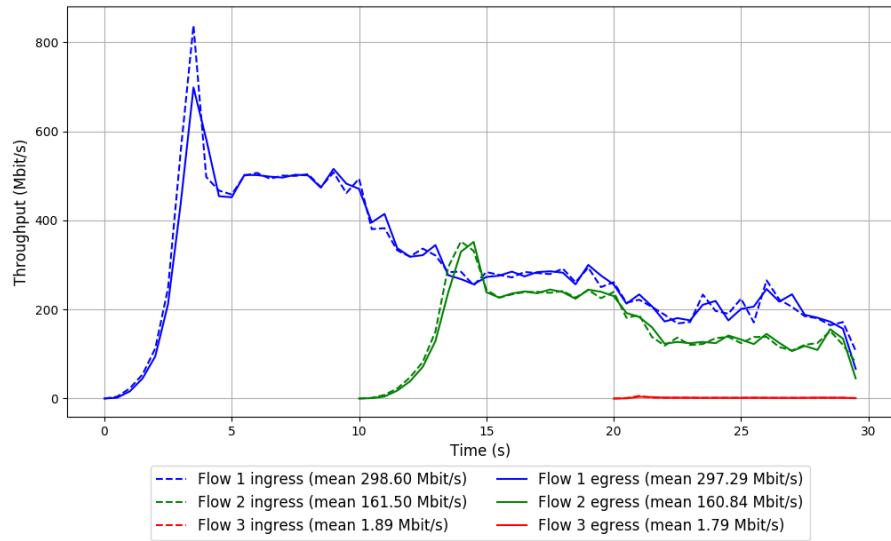


```
Run 1: Statistics of PCC

Start at: 2017-08-12 12:37:44
End at: 2017-08-12 12:38:14

# Below is generated by plot.py at 2017-08-12 17:56:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 403.84 Mbit/s
95th percentile per-packet one-way delay: 140.945 ms
Loss rate: 1.47%
-- Flow 1:
Average throughput: 297.29 Mbit/s
95th percentile per-packet one-way delay: 141.116 ms
Loss rate: 1.34%
-- Flow 2:
Average throughput: 160.84 Mbit/s
95th percentile per-packet one-way delay: 140.399 ms
Loss rate: 1.77%
-- Flow 3:
Average throughput: 1.79 Mbit/s
95th percentile per-packet one-way delay: 137.393 ms
Loss rate: 8.20%
```

## Run 1: Report of PCC — Data Link



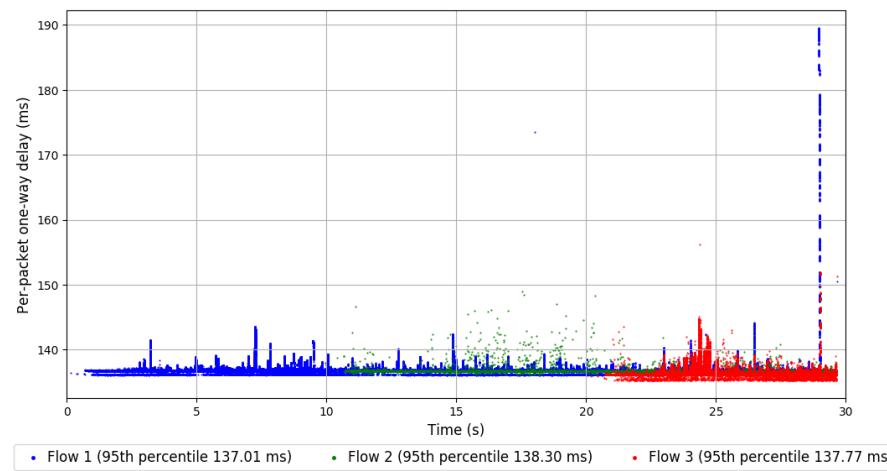
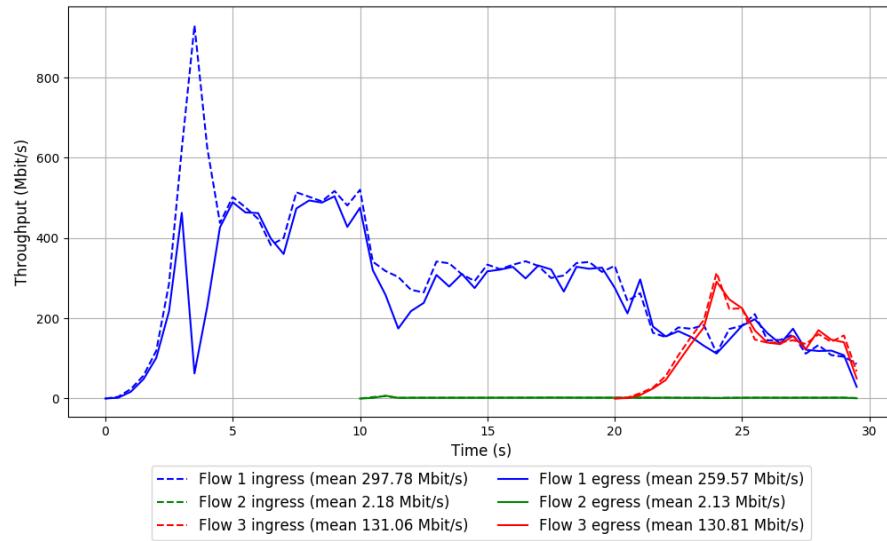
Run 2: Statistics of PCC

Start at: 2017-08-12 12:51:53

End at: 2017-08-12 12:52:23

```
# Below is generated by plot.py at 2017-08-12 17:56:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 302.96 Mbit/s
95th percentile per-packet one-way delay: 137.064 ms
Loss rate: 12.20%
-- Flow 1:
Average throughput: 259.57 Mbit/s
95th percentile per-packet one-way delay: 137.009 ms
Loss rate: 13.59%
-- Flow 2:
Average throughput: 2.13 Mbit/s
95th percentile per-packet one-way delay: 138.299 ms
Loss rate: 3.36%
-- Flow 3:
Average throughput: 130.81 Mbit/s
95th percentile per-packet one-way delay: 137.769 ms
Loss rate: 2.85%
```

## Run 2: Report of PCC — Data Link



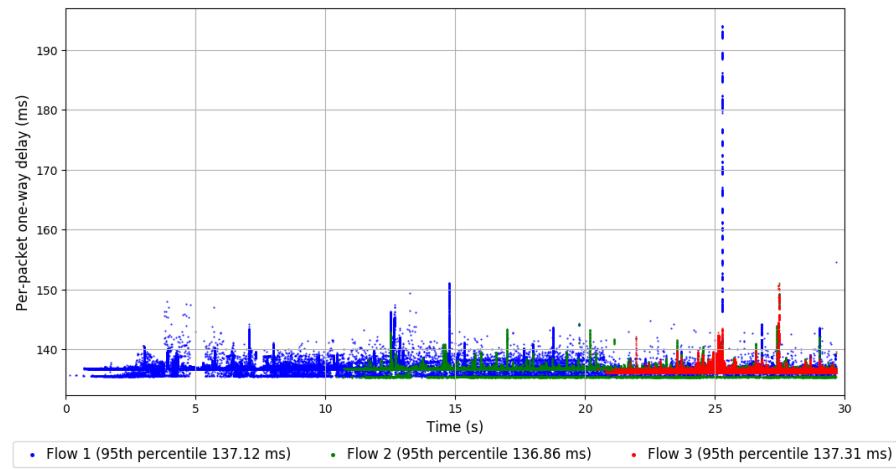
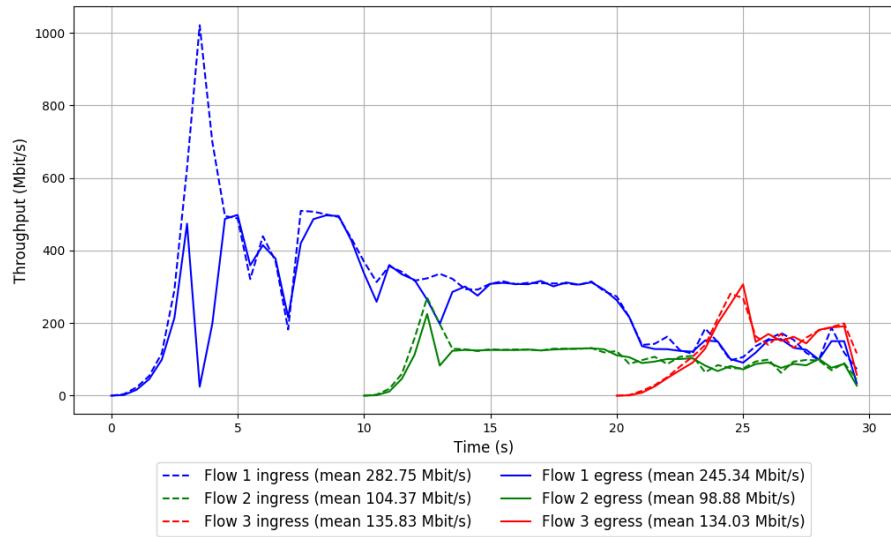
Run 3: Statistics of PCC

Start at: 2017-08-12 13:05:40

End at: 2017-08-12 13:06:10

```
# Below is generated by plot.py at 2017-08-12 17:57:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 353.40 Mbit/s
95th percentile per-packet one-way delay: 137.068 ms
Loss rate: 11.58%
-- Flow 1:
Average throughput: 245.34 Mbit/s
95th percentile per-packet one-way delay: 137.124 ms
Loss rate: 13.98%
-- Flow 2:
Average throughput: 98.88 Mbit/s
95th percentile per-packet one-way delay: 136.860 ms
Loss rate: 6.56%
-- Flow 3:
Average throughput: 134.03 Mbit/s
95th percentile per-packet one-way delay: 137.307 ms
Loss rate: 4.12%
```

### Run 3: Report of PCC — Data Link



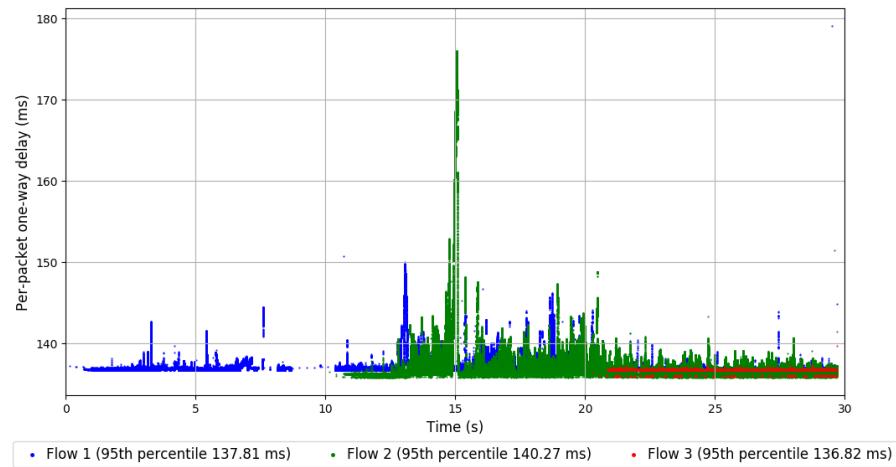
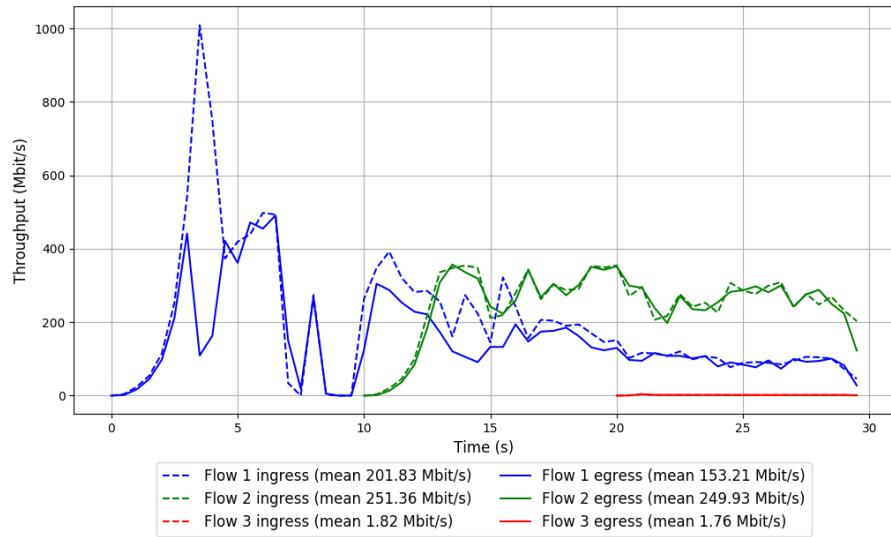
Run 4: Statistics of PCC

Start at: 2017-08-12 13:19:32

End at: 2017-08-12 13:20:02

```
# Below is generated by plot.py at 2017-08-12 17:57:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 319.05 Mbit/s
95th percentile per-packet one-way delay: 139.302 ms
Loss rate: 14.41%
-- Flow 1:
Average throughput: 153.21 Mbit/s
95th percentile per-packet one-way delay: 137.810 ms
Loss rate: 24.76%
-- Flow 2:
Average throughput: 249.93 Mbit/s
95th percentile per-packet one-way delay: 140.274 ms
Loss rate: 1.92%
-- Flow 3:
Average throughput: 1.76 Mbit/s
95th percentile per-packet one-way delay: 136.823 ms
Loss rate: 5.95%
```

## Run 4: Report of PCC — Data Link



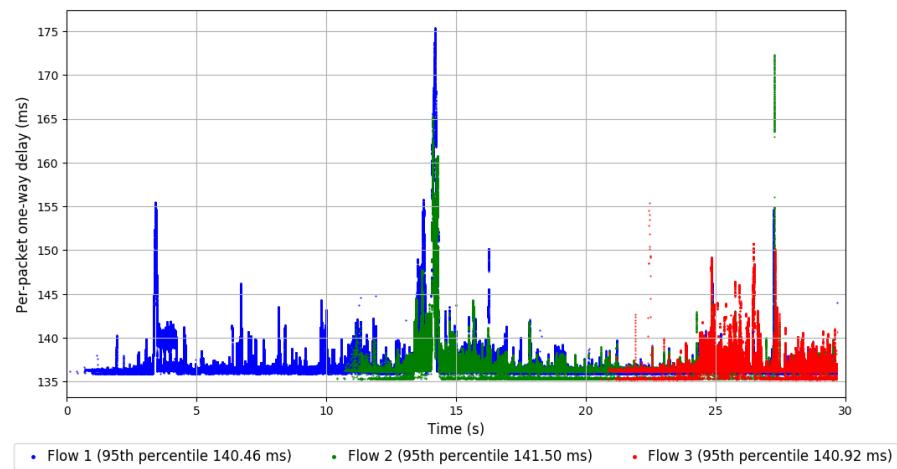
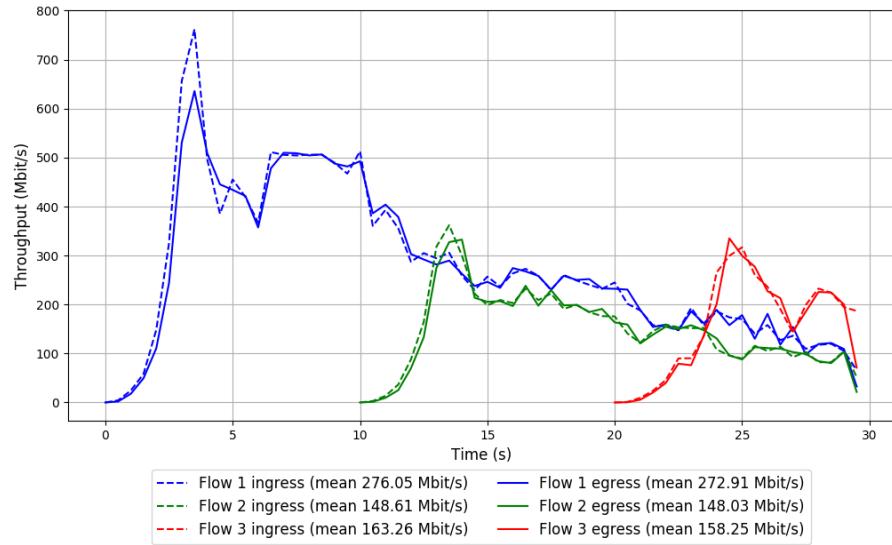
Run 5: Statistics of PCC

Start at: 2017-08-12 13:33:30

End at: 2017-08-12 13:34:00

```
# Below is generated by plot.py at 2017-08-12 17:58:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 420.71 Mbit/s
95th percentile per-packet one-way delay: 140.692 ms
Loss rate: 2.46%
-- Flow 1:
Average throughput: 272.91 Mbit/s
95th percentile per-packet one-way delay: 140.464 ms
Loss rate: 2.03%
-- Flow 2:
Average throughput: 148.03 Mbit/s
95th percentile per-packet one-way delay: 141.497 ms
Loss rate: 1.92%
-- Flow 3:
Average throughput: 158.25 Mbit/s
95th percentile per-packet one-way delay: 140.916 ms
Loss rate: 5.78%
```

### Run 5: Report of PCC — Data Link



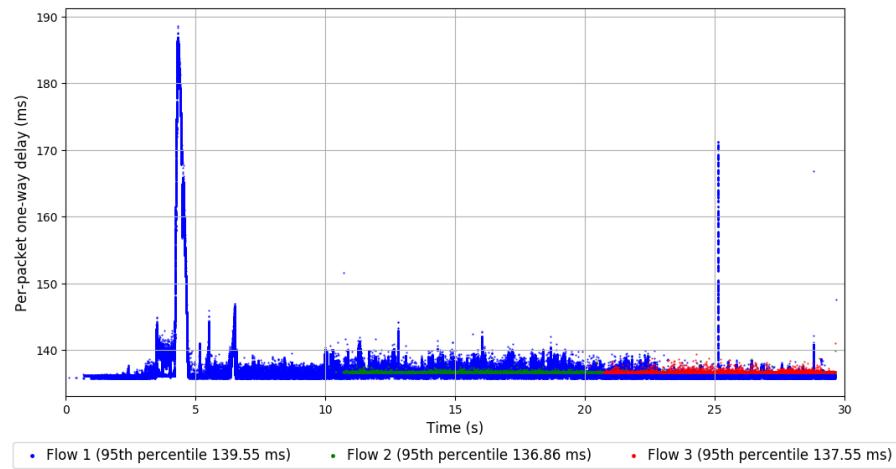
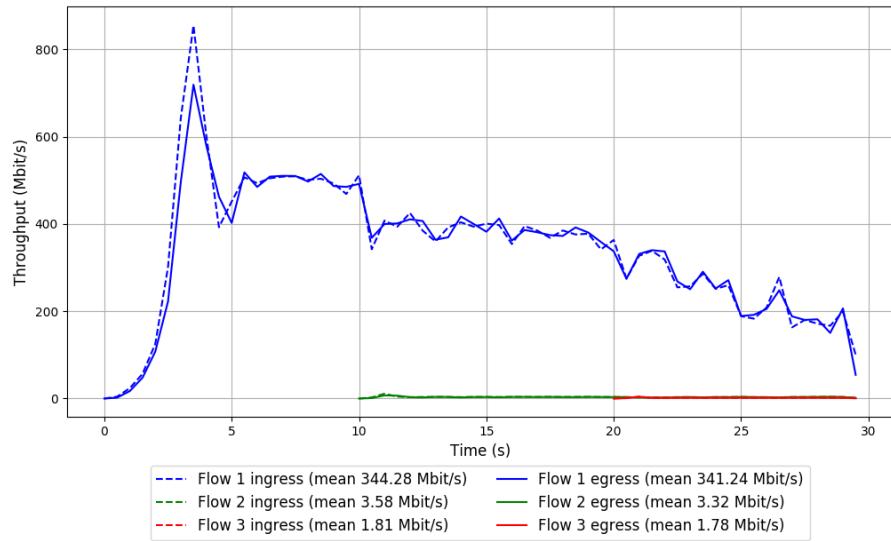
Run 6: Statistics of PCC

Start at: 2017-08-12 13:47:53

End at: 2017-08-12 13:48:23

```
# Below is generated by plot.py at 2017-08-12 17:58:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 344.00 Mbit/s
95th percentile per-packet one-way delay: 139.538 ms
Loss rate: 1.81%
-- Flow 1:
Average throughput: 341.24 Mbit/s
95th percentile per-packet one-way delay: 139.552 ms
Loss rate: 1.75%
-- Flow 2:
Average throughput: 3.32 Mbit/s
95th percentile per-packet one-way delay: 136.862 ms
Loss rate: 8.44%
-- Flow 3:
Average throughput: 1.78 Mbit/s
95th percentile per-packet one-way delay: 137.548 ms
Loss rate: 4.53%
```

## Run 6: Report of PCC — Data Link



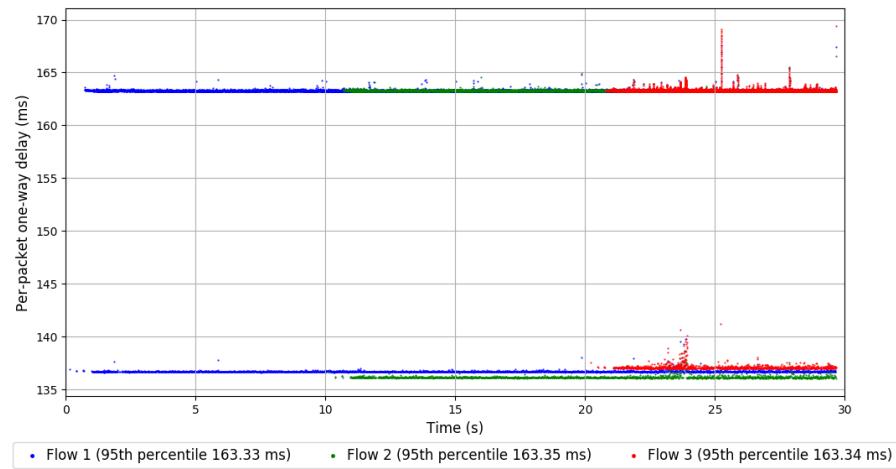
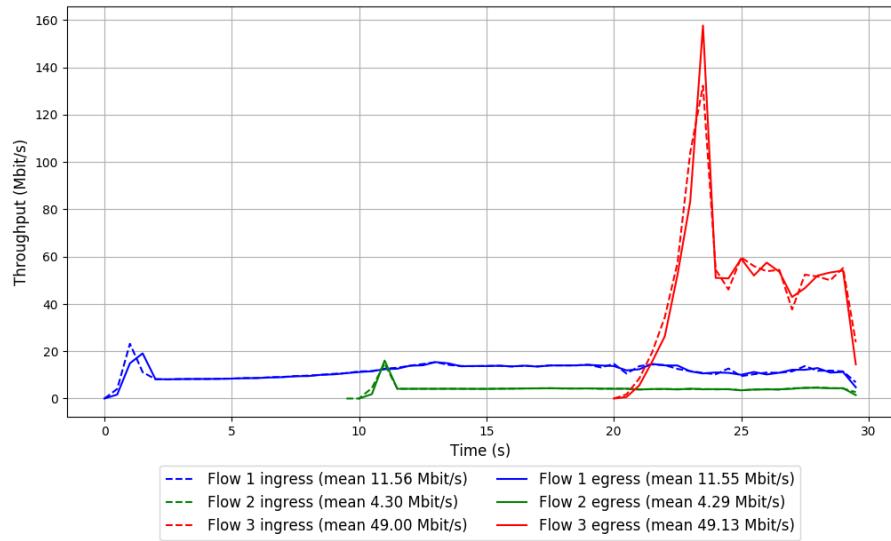
Run 7: Statistics of PCC

Start at: 2017-08-12 14:01:18

End at: 2017-08-12 14:01:48

```
# Below is generated by plot.py at 2017-08-12 17:58:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 30.12 Mbit/s
95th percentile per-packet one-way delay: 163.338 ms
Loss rate: 1.84%
-- Flow 1:
Average throughput: 11.55 Mbit/s
95th percentile per-packet one-way delay: 163.330 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 4.29 Mbit/s
95th percentile per-packet one-way delay: 163.353 ms
Loss rate: 1.59%
-- Flow 3:
Average throughput: 49.13 Mbit/s
95th percentile per-packet one-way delay: 163.339 ms
Loss rate: 2.50%
```

Run 7: Report of PCC — Data Link



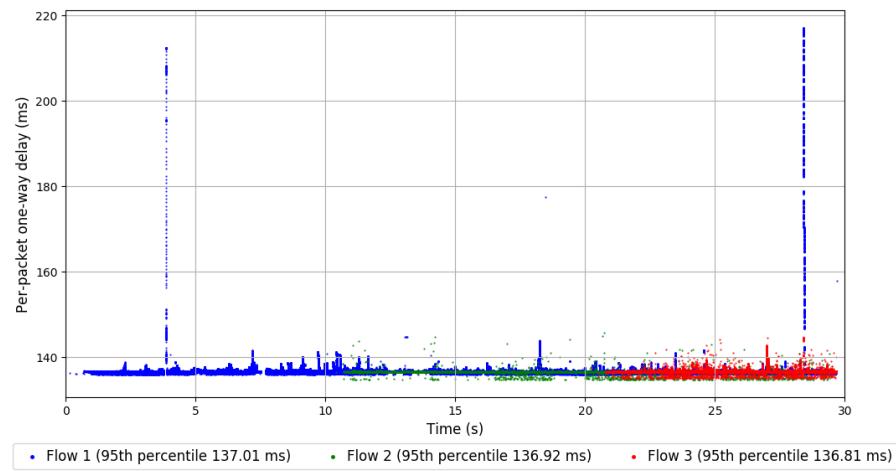
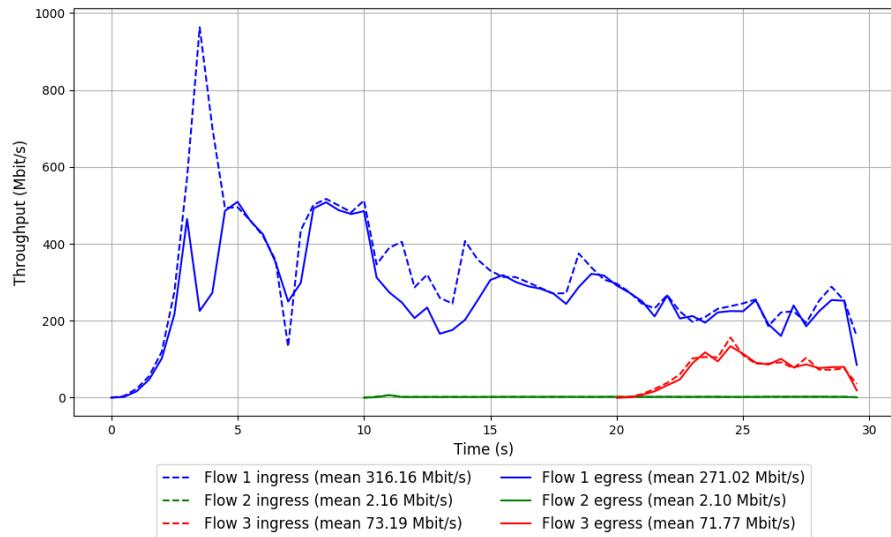
Run 8: Statistics of PCC

Start at: 2017-08-12 14:14:47

End at: 2017-08-12 14:15:17

```
# Below is generated by plot.py at 2017-08-12 17:59:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 295.30 Mbit/s
95th percentile per-packet one-way delay: 136.994 ms
Loss rate: 14.23%
-- Flow 1:
Average throughput: 271.02 Mbit/s
95th percentile per-packet one-way delay: 137.009 ms
Loss rate: 15.00%
-- Flow 2:
Average throughput: 2.10 Mbit/s
95th percentile per-packet one-way delay: 136.916 ms
Loss rate: 4.05%
-- Flow 3:
Average throughput: 71.77 Mbit/s
95th percentile per-packet one-way delay: 136.814 ms
Loss rate: 4.67%
```

Run 8: Report of PCC — Data Link



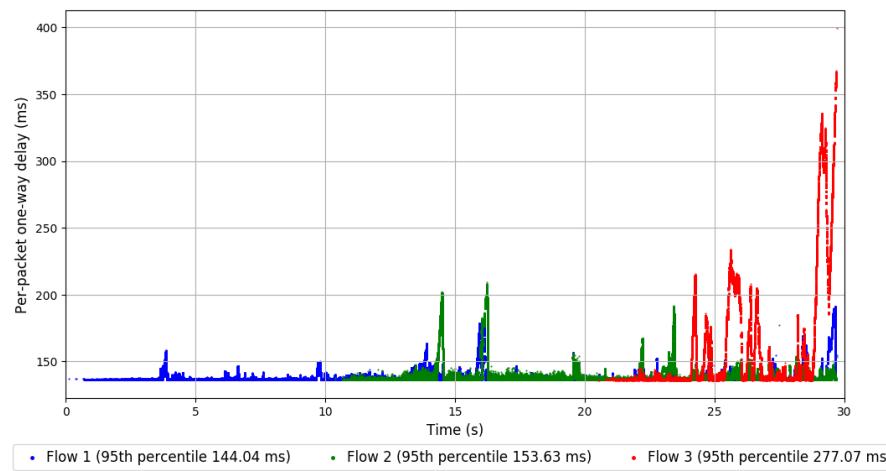
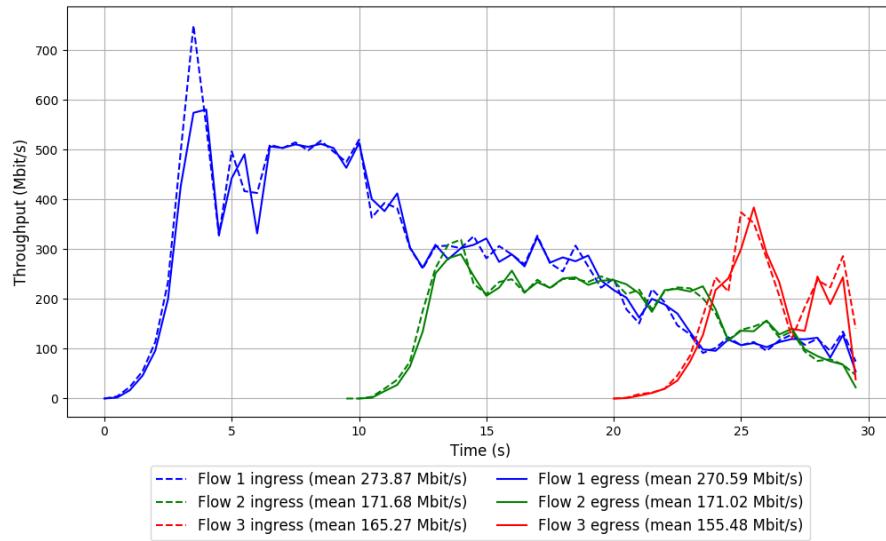
Run 9: Statistics of PCC

Start at: 2017-08-12 14:28:37

End at: 2017-08-12 14:29:07

```
# Below is generated by plot.py at 2017-08-12 17:59:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 433.31 Mbit/s
95th percentile per-packet one-way delay: 169.566 ms
Loss rate: 2.70%
-- Flow 1:
Average throughput: 270.59 Mbit/s
95th percentile per-packet one-way delay: 144.038 ms
Loss rate: 2.03%
-- Flow 2:
Average throughput: 171.02 Mbit/s
95th percentile per-packet one-way delay: 153.628 ms
Loss rate: 1.63%
-- Flow 3:
Average throughput: 155.48 Mbit/s
95th percentile per-packet one-way delay: 277.066 ms
Loss rate: 8.38%
```

Run 9: Report of PCC — Data Link



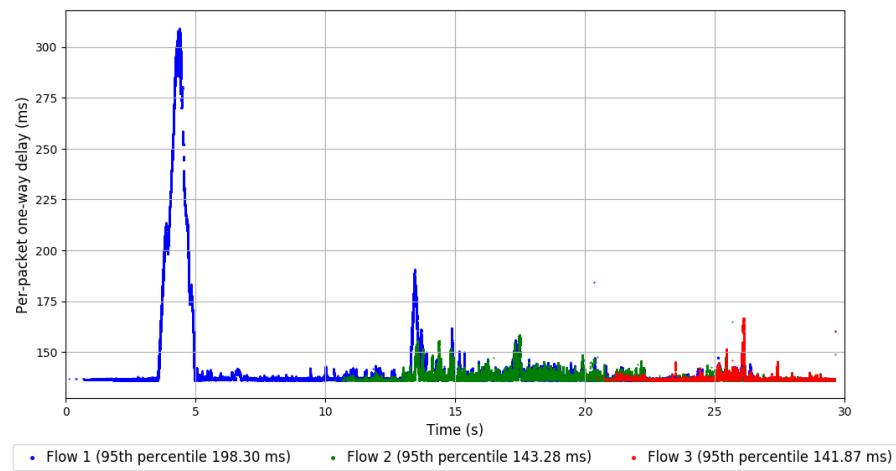
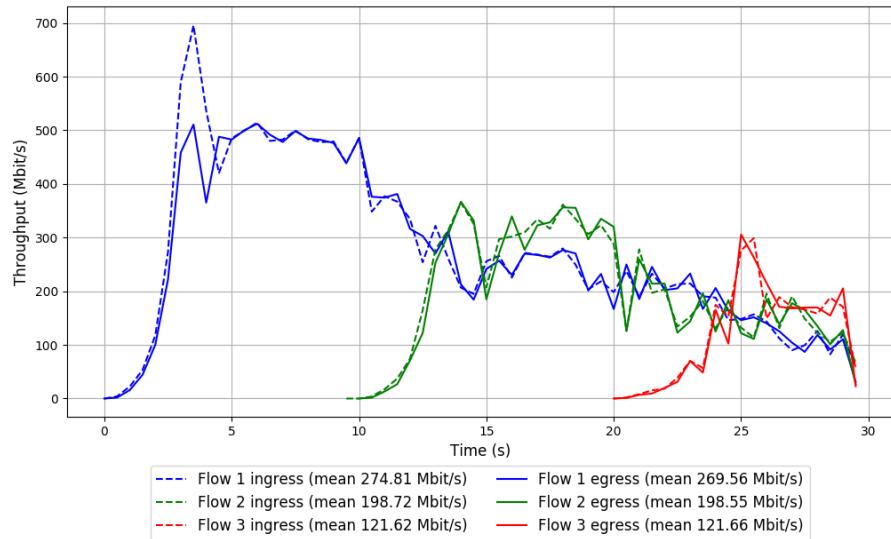
Run 10: Statistics of PCC

Start at: 2017-08-12 14:42:40

End at: 2017-08-12 14:43:10

```
# Below is generated by plot.py at 2017-08-12 18:00:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 439.95 Mbit/s
95th percentile per-packet one-way delay: 161.072 ms
Loss rate: 2.35%
-- Flow 1:
Average throughput: 269.56 Mbit/s
95th percentile per-packet one-way delay: 198.299 ms
Loss rate: 2.77%
-- Flow 2:
Average throughput: 198.55 Mbit/s
95th percentile per-packet one-way delay: 143.284 ms
Loss rate: 1.40%
-- Flow 3:
Average throughput: 121.66 Mbit/s
95th percentile per-packet one-way delay: 141.871 ms
Loss rate: 2.55%
```

## Run 10: Report of PCC — Data Link

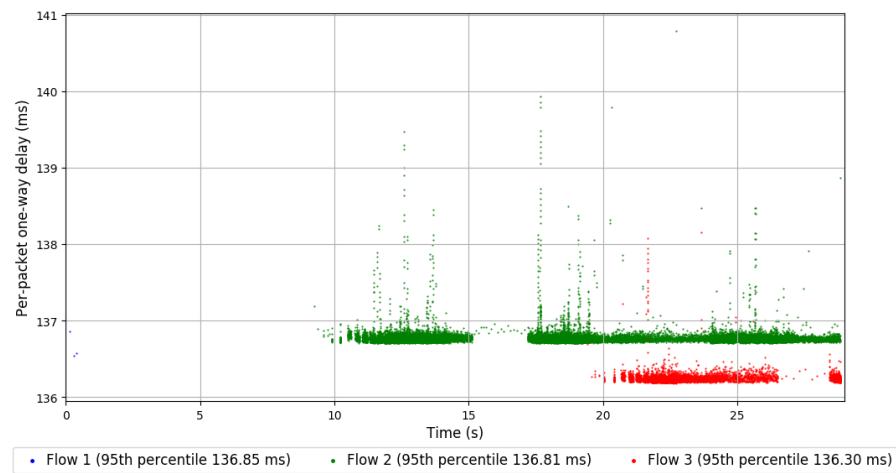
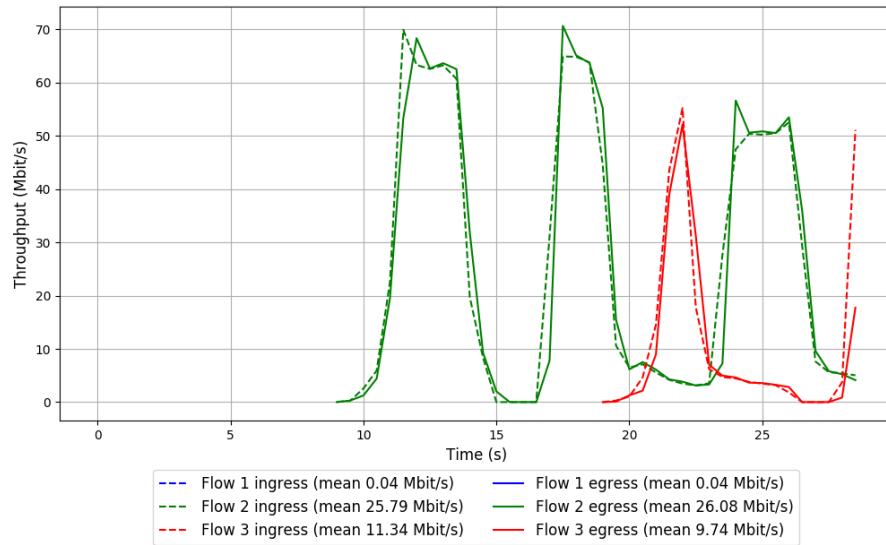


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-08-12 12:40:57
End at: 2017-08-12 12:41:27

# Below is generated by plot.py at 2017-08-12 18:00:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 21.00 Mbit/s
95th percentile per-packet one-way delay: 136.809 ms
Loss rate: 3.12%
-- Flow 1:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 136.854 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 26.08 Mbit/s
95th percentile per-packet one-way delay: 136.814 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 9.74 Mbit/s
95th percentile per-packet one-way delay: 136.303 ms
Loss rate: 16.50%
```

Run 1: Report of QUIC Cubic — Data Link



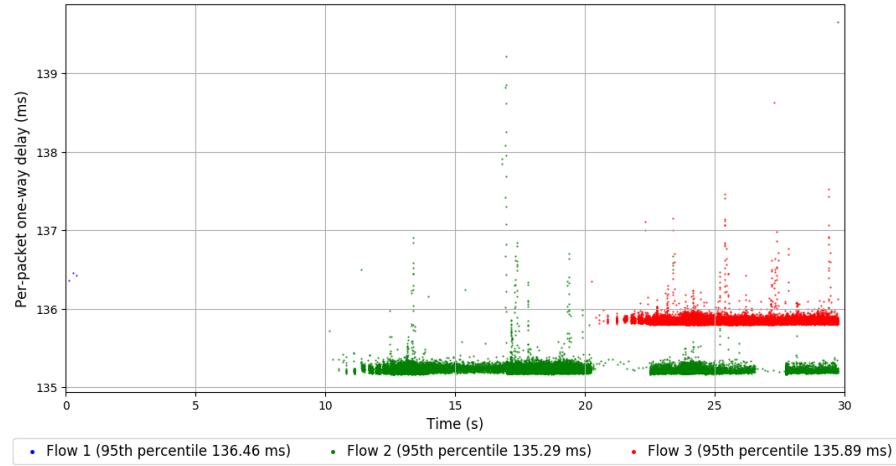
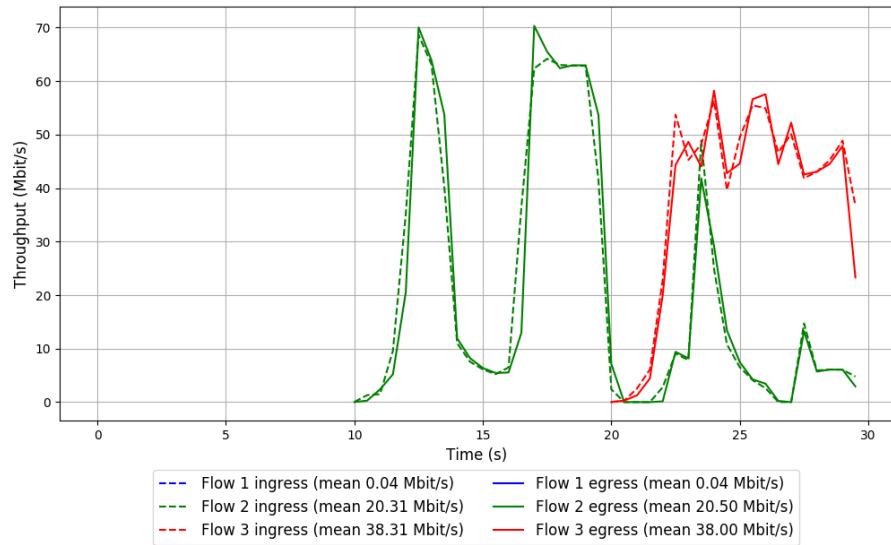
Run 2: Statistics of QUIC Cubic

Start at: 2017-08-12 12:54:54

End at: 2017-08-12 12:55:24

```
# Below is generated by plot.py at 2017-08-12 18:00:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 25.74 Mbit/s
95th percentile per-packet one-way delay: 135.873 ms
Loss rate: 1.95%
-- Flow 1:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 136.458 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 20.50 Mbit/s
95th percentile per-packet one-way delay: 135.291 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 38.00 Mbit/s
95th percentile per-packet one-way delay: 135.893 ms
Loss rate: 3.58%
```

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



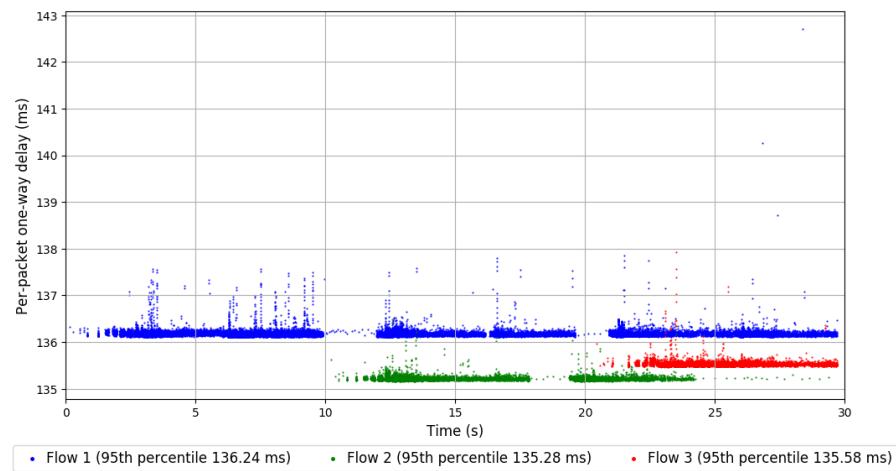
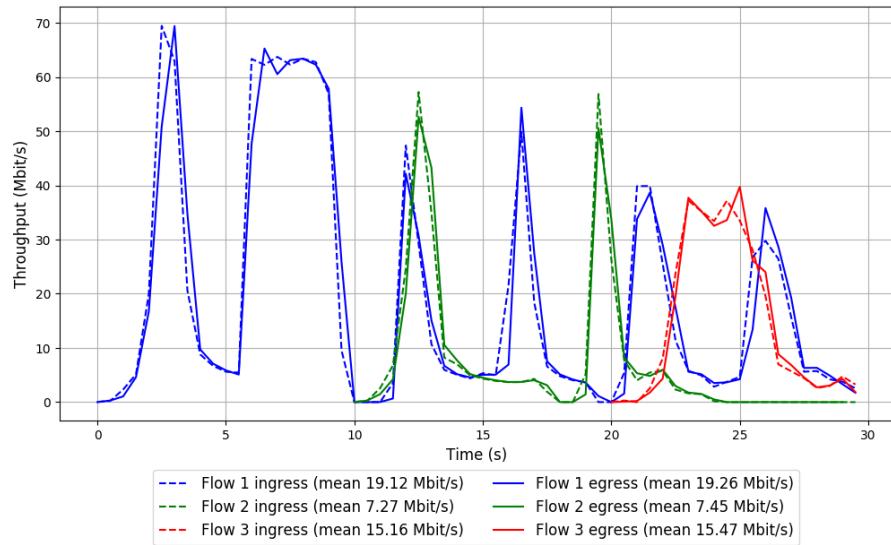
Run 3: Statistics of QUIC Cubic

Start at: 2017-08-12 13:08:52

End at: 2017-08-12 13:09:22

```
# Below is generated by plot.py at 2017-08-12 18:00:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 28.94 Mbit/s
95th percentile per-packet one-way delay: 136.222 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 19.26 Mbit/s
95th percentile per-packet one-way delay: 136.237 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 7.45 Mbit/s
95th percentile per-packet one-way delay: 135.275 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 15.47 Mbit/s
95th percentile per-packet one-way delay: 135.583 ms
Loss rate: 0.86%
```

Run 3: Report of QUIC Cubic — Data Link



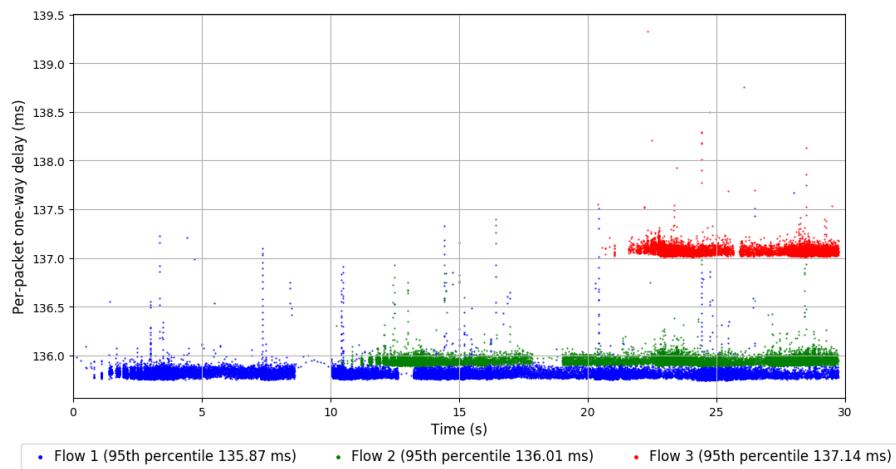
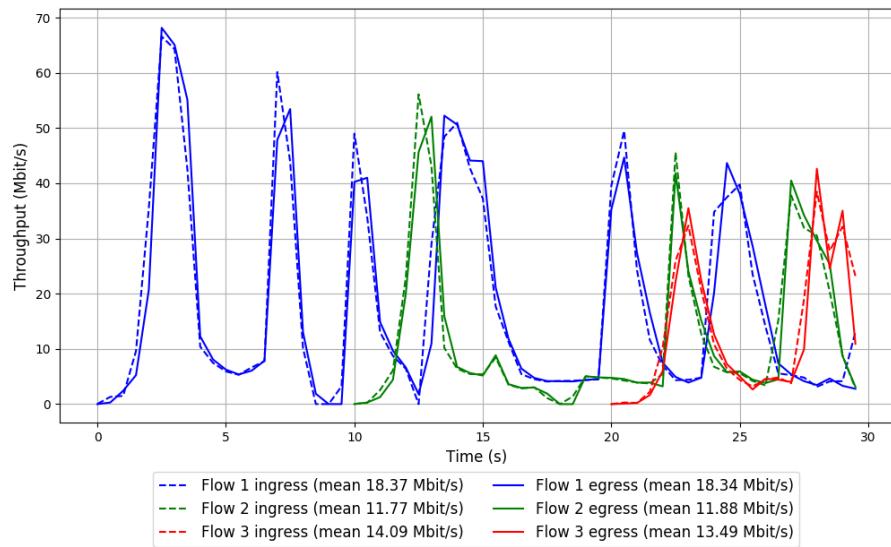
Run 4: Statistics of QUIC Cubic

Start at: 2017-08-12 13:22:43

End at: 2017-08-12 13:23:13

```
# Below is generated by plot.py at 2017-08-12 18:00:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 30.42 Mbit/s
95th percentile per-packet one-way delay: 137.069 ms
Loss rate: 1.79%
-- Flow 1:
Average throughput: 18.34 Mbit/s
95th percentile per-packet one-way delay: 135.865 ms
Loss rate: 1.08%
-- Flow 2:
Average throughput: 11.88 Mbit/s
95th percentile per-packet one-way delay: 136.006 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 13.49 Mbit/s
95th percentile per-packet one-way delay: 137.137 ms
Loss rate: 6.97%
```

Run 4: Report of QUIC Cubic — Data Link



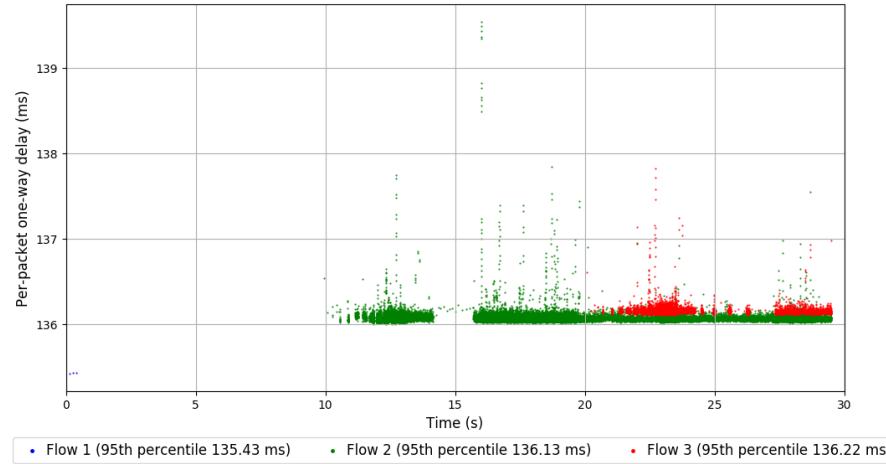
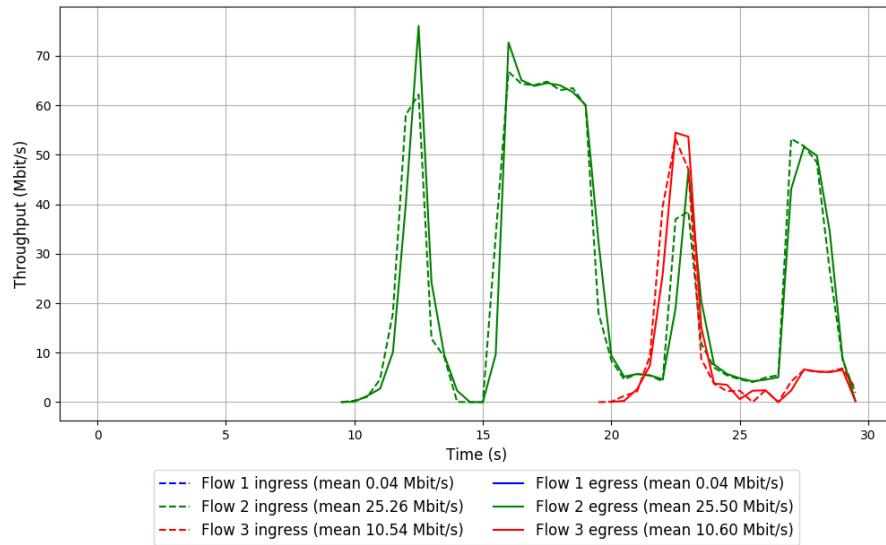
Run 5: Statistics of QUIC Cubic

Start at: 2017-08-12 13:37:21

End at: 2017-08-12 13:37:51

```
# Below is generated by plot.py at 2017-08-12 18:00:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 20.38 Mbit/s
95th percentile per-packet one-way delay: 136.169 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 135.431 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 25.50 Mbit/s
95th percentile per-packet one-way delay: 136.126 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 10.60 Mbit/s
95th percentile per-packet one-way delay: 136.215 ms
Loss rate: 2.27%
```

Run 5: Report of QUIC Cubic — Data Link



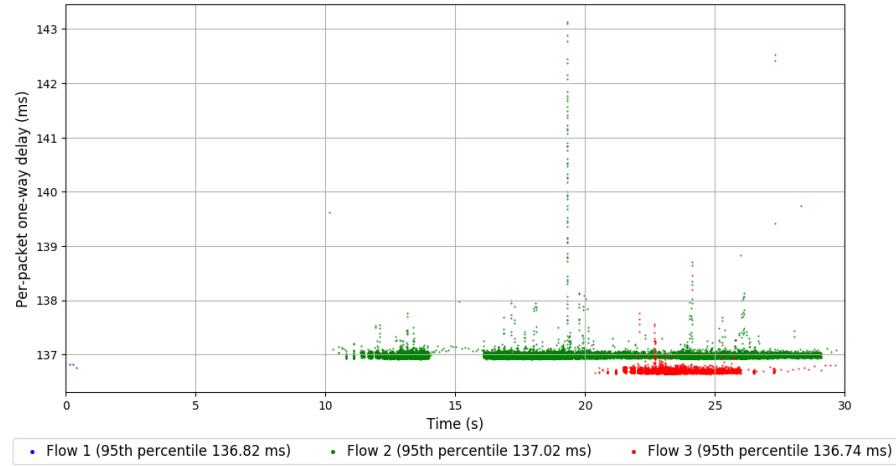
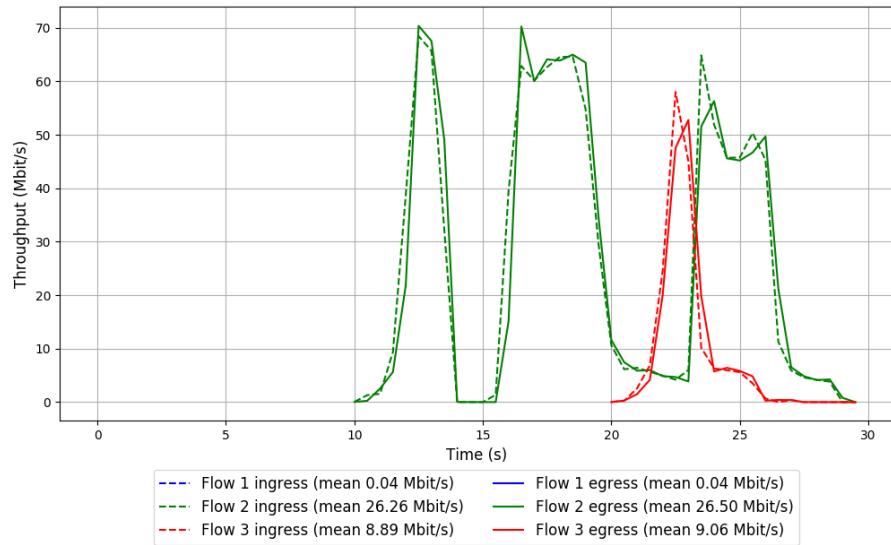
Run 6: Statistics of QUIC Cubic

Start at: 2017-08-12 13:51:04

End at: 2017-08-12 13:51:34

```
# Below is generated by plot.py at 2017-08-12 18:00:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 20.40 Mbit/s
95th percentile per-packet one-way delay: 137.017 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 136.822 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 26.50 Mbit/s
95th percentile per-packet one-way delay: 137.021 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 9.06 Mbit/s
95th percentile per-packet one-way delay: 136.738 ms
Loss rate: 0.00%
```

Run 6: Report of QUIC Cubic — Data Link



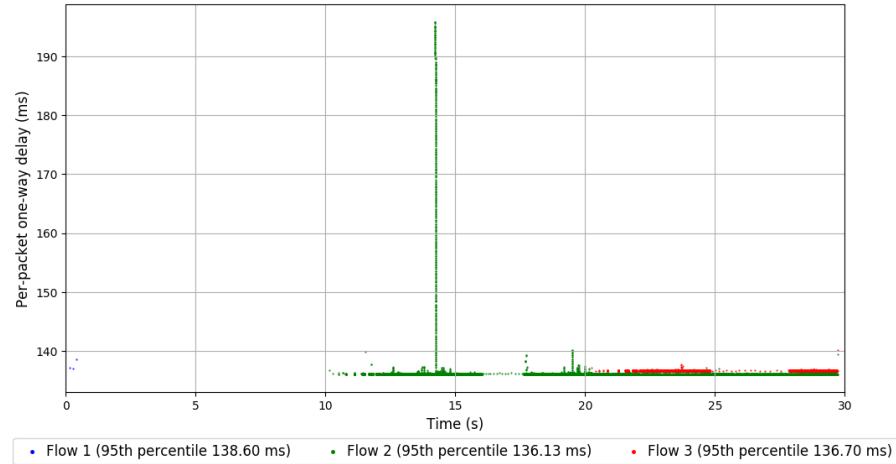
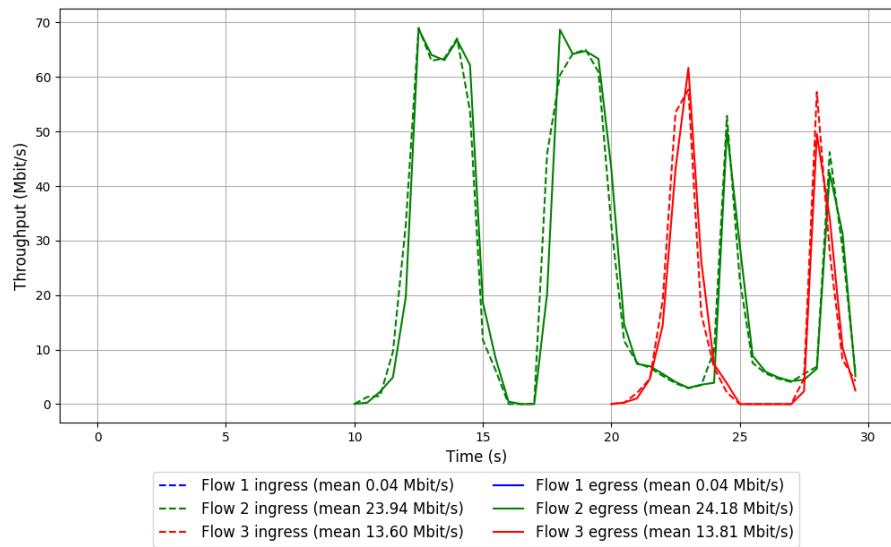
Run 7: Statistics of QUIC Cubic

Start at: 2017-08-12 14:04:14

End at: 2017-08-12 14:04:44

```
# Below is generated by plot.py at 2017-08-12 18:00:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 20.41 Mbit/s
95th percentile per-packet one-way delay: 136.668 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 138.603 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.18 Mbit/s
95th percentile per-packet one-way delay: 136.126 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 13.81 Mbit/s
95th percentile per-packet one-way delay: 136.697 ms
Loss rate: 1.24%
```

Run 7: Report of QUIC Cubic — Data Link



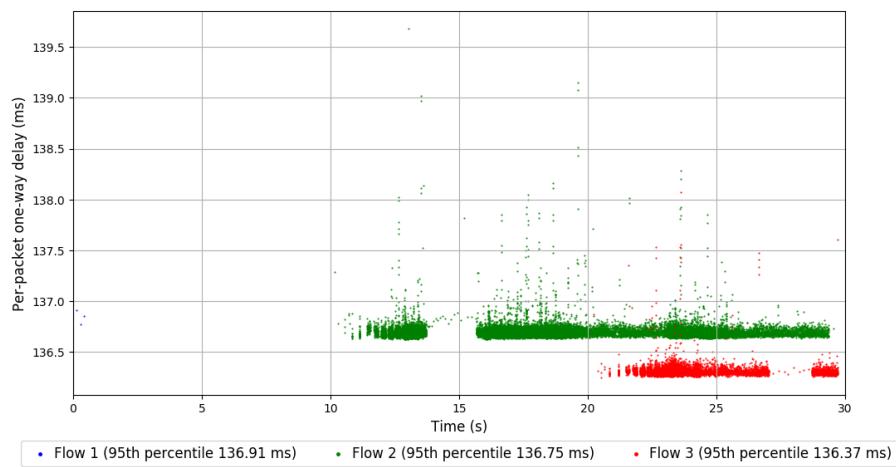
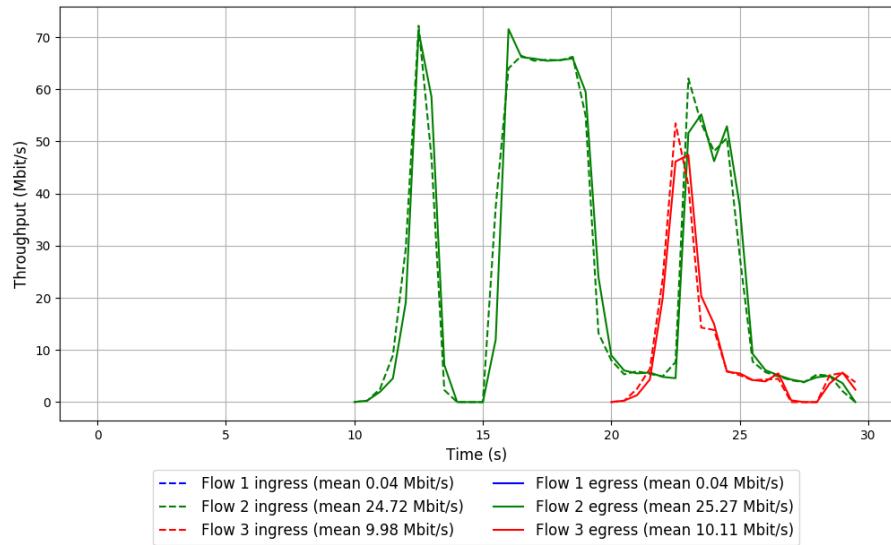
Run 8: Statistics of QUIC Cubic

Start at: 2017-08-12 14:17:56

End at: 2017-08-12 14:18:26

```
# Below is generated by plot.py at 2017-08-12 18:00:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.81 Mbit/s
95th percentile per-packet one-way delay: 136.739 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 136.913 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 25.27 Mbit/s
95th percentile per-packet one-way delay: 136.745 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 10.11 Mbit/s
95th percentile per-packet one-way delay: 136.367 ms
Loss rate: 1.50%
```

Run 8: Report of QUIC Cubic — Data Link



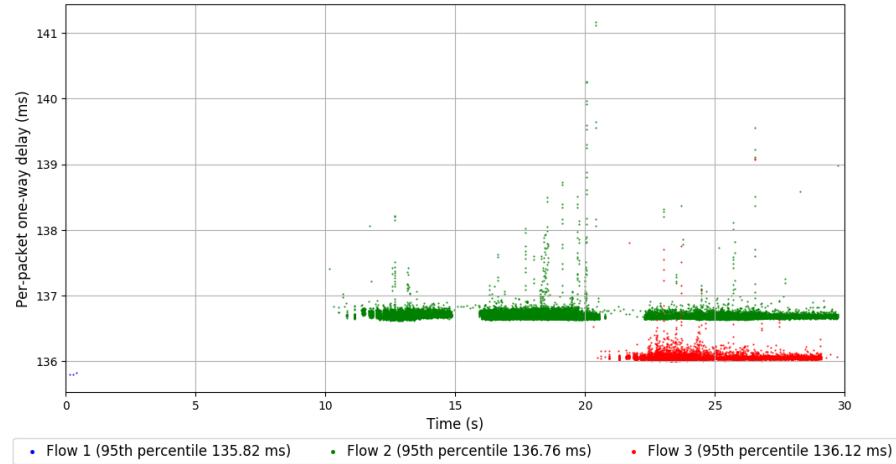
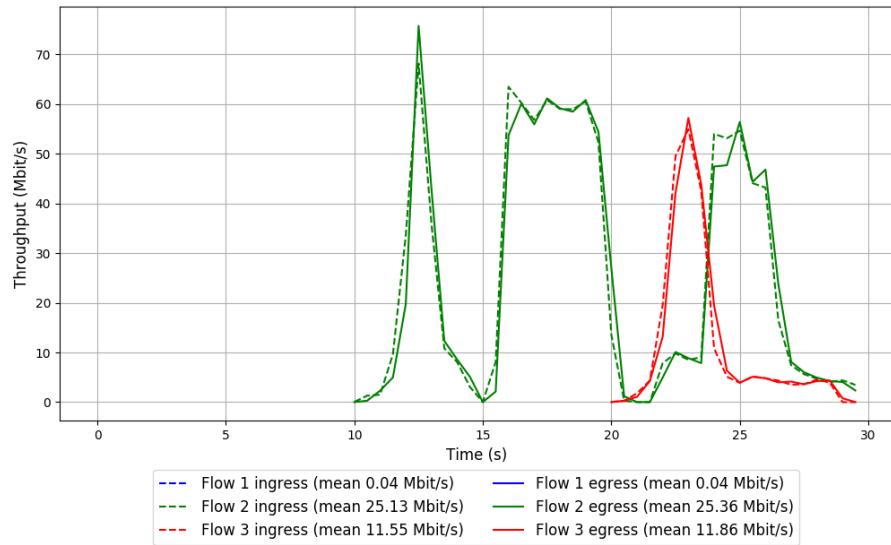
Run 9: Statistics of QUIC Cubic

Start at: 2017-08-12 14:31:54

End at: 2017-08-12 14:32:24

```
# Below is generated by plot.py at 2017-08-12 18:00:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 20.54 Mbit/s
95th percentile per-packet one-way delay: 136.751 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 135.816 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 25.36 Mbit/s
95th percentile per-packet one-way delay: 136.757 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 11.86 Mbit/s
95th percentile per-packet one-way delay: 136.117 ms
Loss rate: 0.00%
```

## Run 9: Report of QUIC Cubic — Data Link



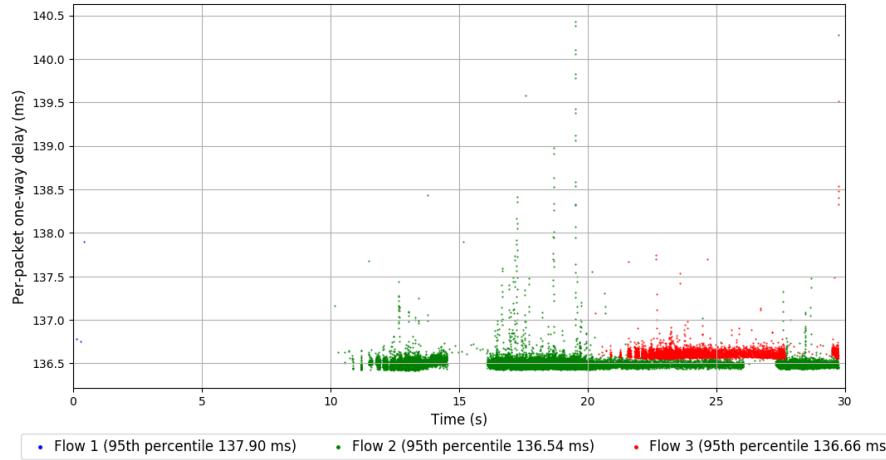
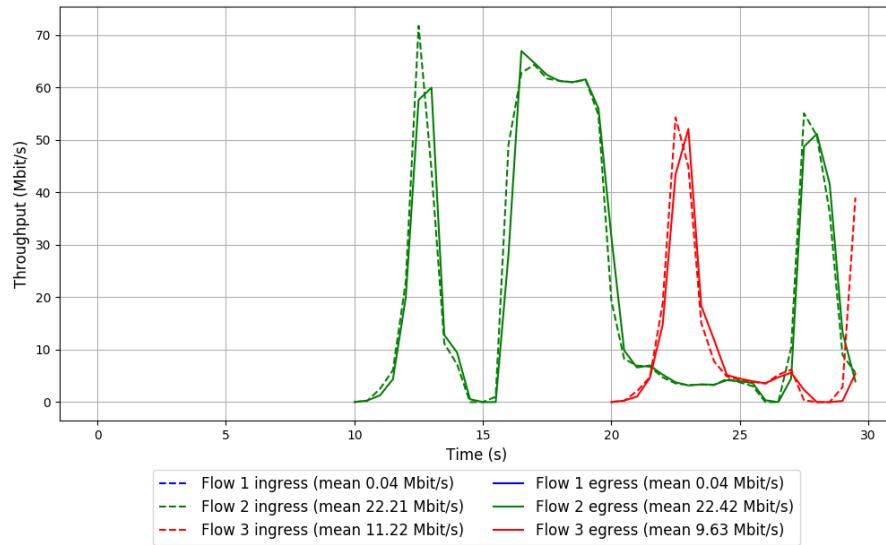
Run 10: Statistics of QUIC Cubic

Start at: 2017-08-12 14:45:57

End at: 2017-08-12 14:46:27

```
# Below is generated by plot.py at 2017-08-12 18:00:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 17.90 Mbit/s
95th percentile per-packet one-way delay: 136.620 ms
Loss rate: 3.63%
-- Flow 1:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 137.900 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 22.42 Mbit/s
95th percentile per-packet one-way delay: 136.544 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 9.63 Mbit/s
95th percentile per-packet one-way delay: 136.664 ms
Loss rate: 16.59%
```

## Run 10: Report of QUIC Cubic — Data Link

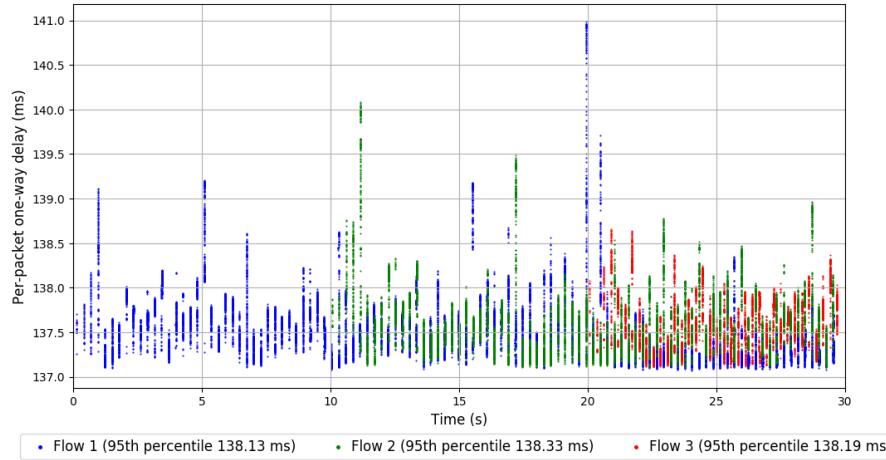
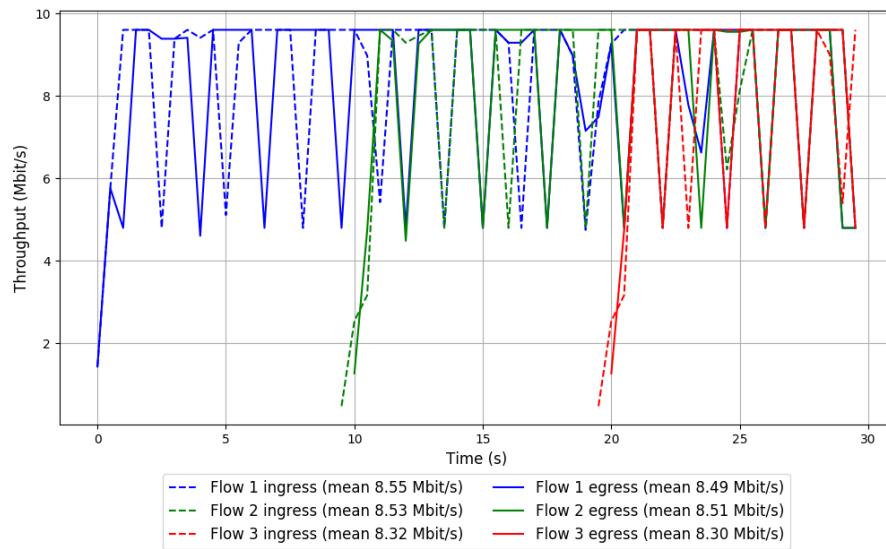


```
Run 1: Statistics of Saturator

Start at: 2017-08-12 12:42:43
End at: 2017-08-12 12:43:13

# Below is generated by plot.py at 2017-08-12 18:00:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 16.76 Mbit/s
95th percentile per-packet one-way delay: 138.202 ms
Loss rate: 1.85%
-- Flow 1:
Average throughput: 8.49 Mbit/s
95th percentile per-packet one-way delay: 138.132 ms
Loss rate: 1.63%
-- Flow 2:
Average throughput: 8.51 Mbit/s
95th percentile per-packet one-way delay: 138.332 ms
Loss rate: 1.62%
-- Flow 3:
Average throughput: 8.30 Mbit/s
95th percentile per-packet one-way delay: 138.185 ms
Loss rate: 3.02%
```

Run 1: Report of Saturator — Data Link



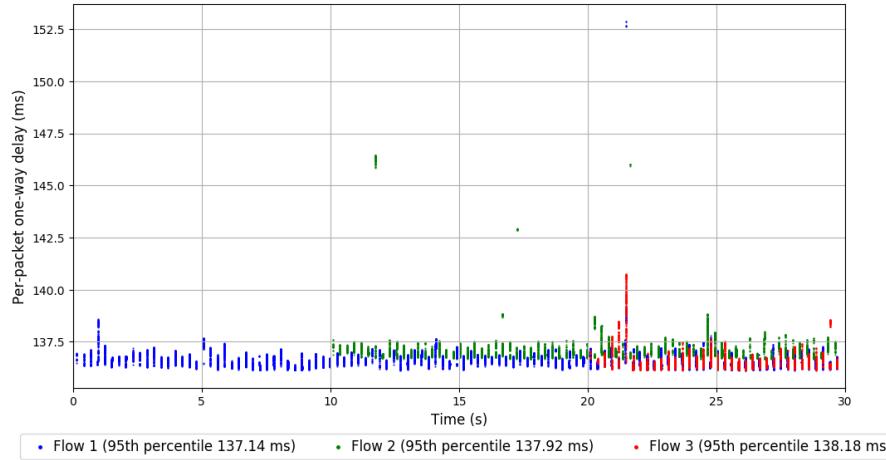
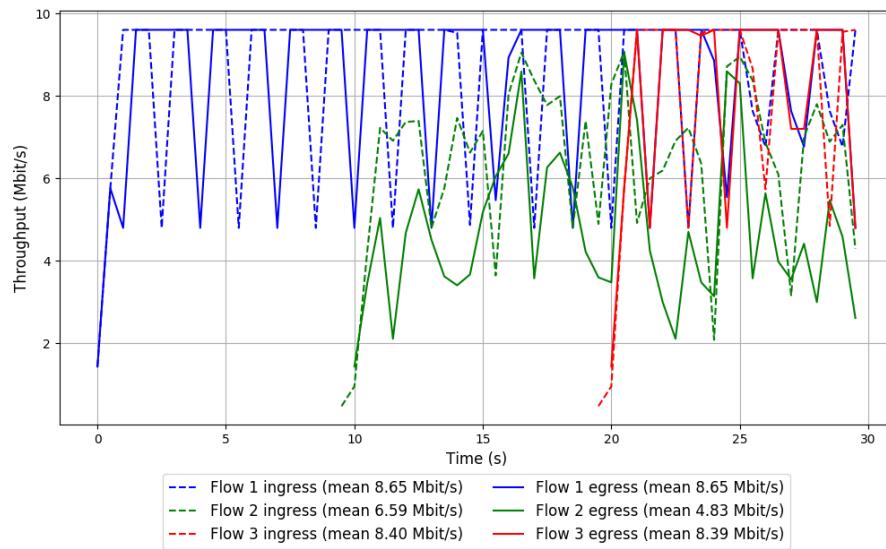
Run 2: Statistics of Saturator

Start at: 2017-08-12 12:56:36

End at: 2017-08-12 12:57:06

```
# Below is generated by plot.py at 2017-08-12 18:00:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.56 Mbit/s
95th percentile per-packet one-way delay: 137.452 ms
Loss rate: 8.70%
-- Flow 1:
Average throughput: 8.65 Mbit/s
95th percentile per-packet one-way delay: 137.144 ms
Loss rate: 0.93%
-- Flow 2:
Average throughput: 4.83 Mbit/s
95th percentile per-packet one-way delay: 137.917 ms
Loss rate: 27.71%
-- Flow 3:
Average throughput: 8.39 Mbit/s
95th percentile per-packet one-way delay: 138.175 ms
Loss rate: 2.94%
```

Run 2: Report of Saturator — Data Link



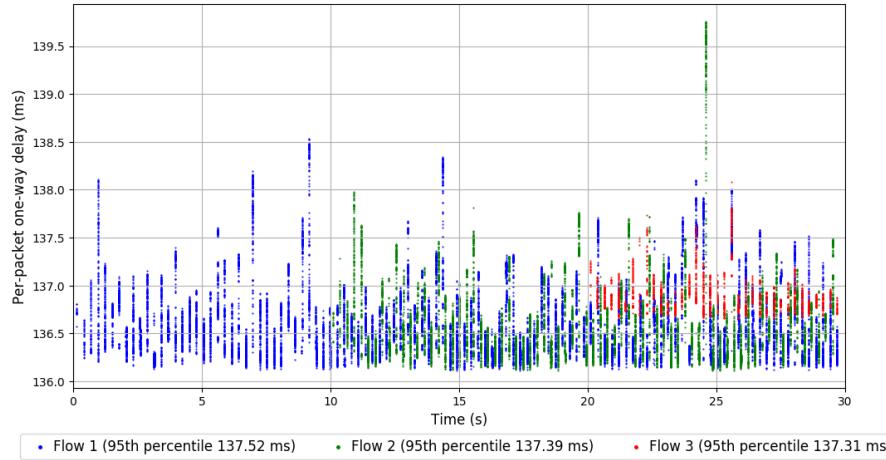
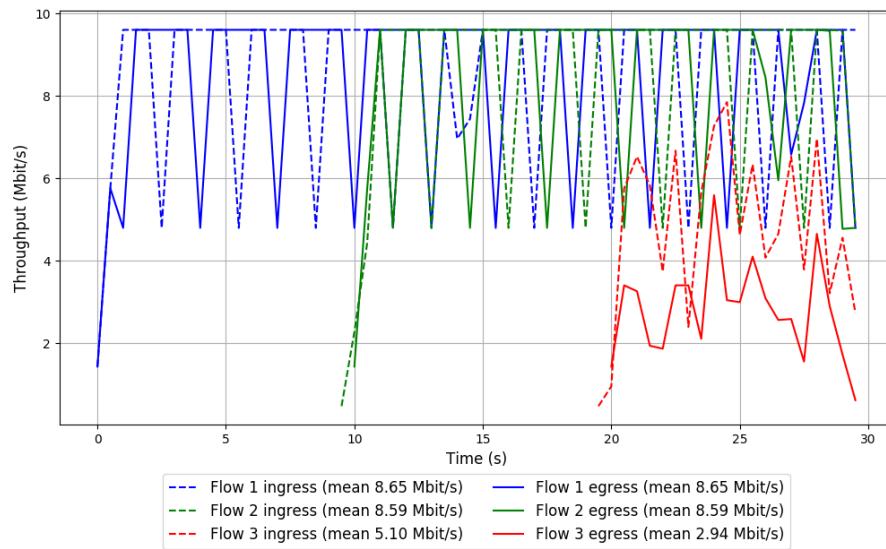
Run 3: Statistics of Saturator

Start at: 2017-08-12 13:10:37

End at: 2017-08-12 13:11:07

```
# Below is generated by plot.py at 2017-08-12 18:00:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.24 Mbit/s
95th percentile per-packet one-way delay: 137.471 ms
Loss rate: 5.65%
-- Flow 1:
Average throughput: 8.65 Mbit/s
95th percentile per-packet one-way delay: 137.520 ms
Loss rate: 0.93%
-- Flow 2:
Average throughput: 8.59 Mbit/s
95th percentile per-packet one-way delay: 137.388 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 2.94 Mbit/s
95th percentile per-packet one-way delay: 137.314 ms
Loss rate: 44.04%
```

Run 3: Report of Saturator — Data Link



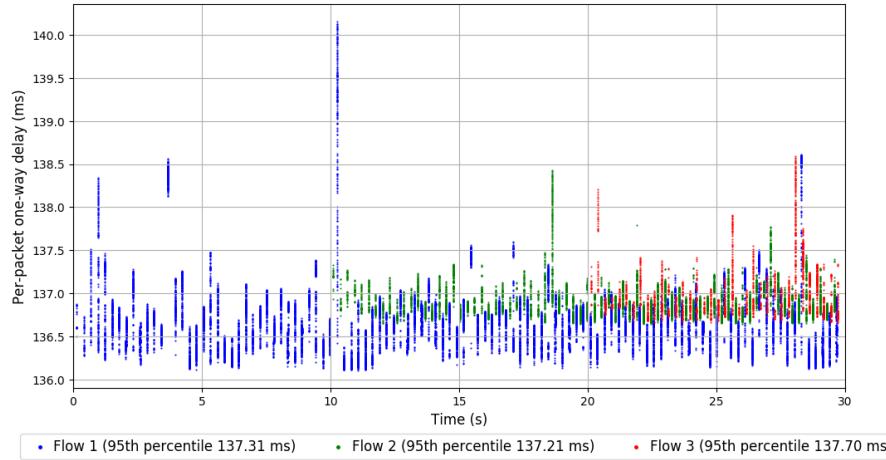
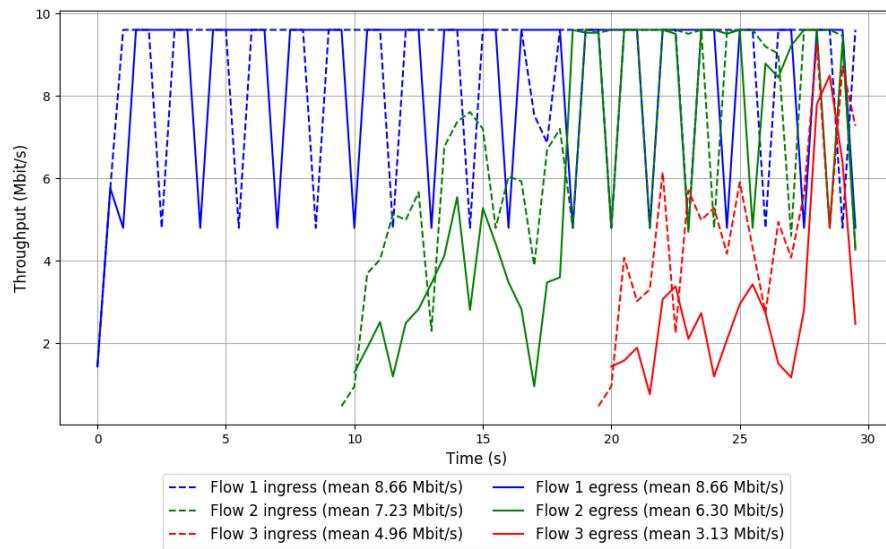
Run 4: Statistics of Saturator

Start at: 2017-08-12 13:24:28

End at: 2017-08-12 13:24:58

```
# Below is generated by plot.py at 2017-08-12 18:01:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.80 Mbit/s
95th percentile per-packet one-way delay: 137.310 ms
Loss rate: 9.22%
-- Flow 1:
Average throughput: 8.66 Mbit/s
95th percentile per-packet one-way delay: 137.305 ms
Loss rate: 0.93%
-- Flow 2:
Average throughput: 6.30 Mbit/s
95th percentile per-packet one-way delay: 137.209 ms
Loss rate: 14.04%
-- Flow 3:
Average throughput: 3.13 Mbit/s
95th percentile per-packet one-way delay: 137.701 ms
Loss rate: 38.77%
```

Run 4: Report of Saturator — Data Link



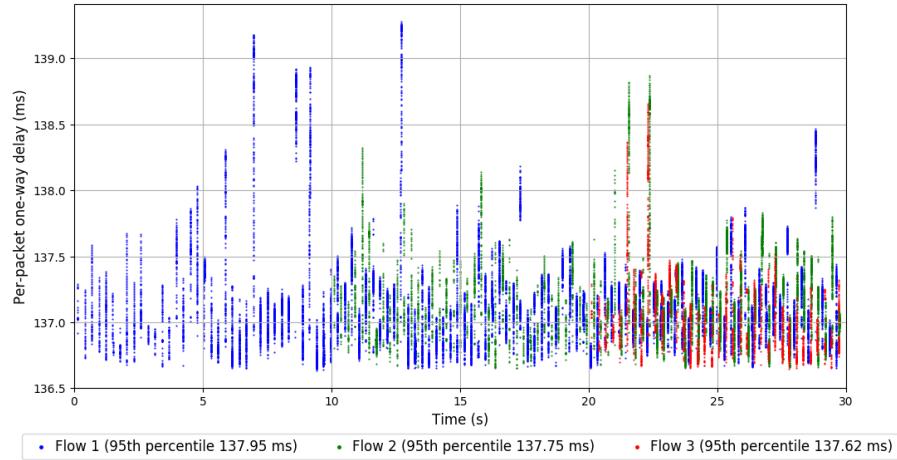
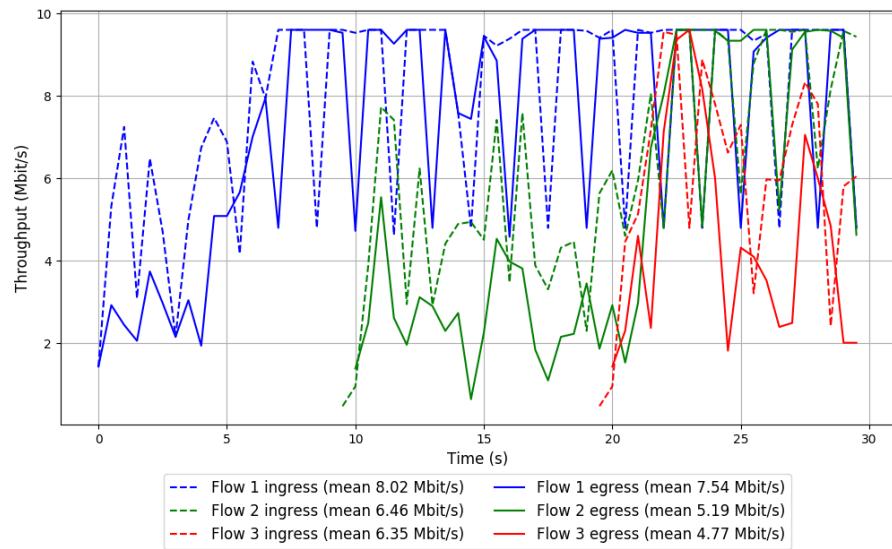
Run 5: Statistics of Saturator

Start at: 2017-08-12 13:39:04

End at: 2017-08-12 13:39:34

```
# Below is generated by plot.py at 2017-08-12 18:01:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.50 Mbit/s
95th percentile per-packet one-way delay: 137.833 ms
Loss rate: 13.93%
-- Flow 1:
Average throughput: 7.54 Mbit/s
95th percentile per-packet one-way delay: 137.949 ms
Loss rate: 6.79%
-- Flow 2:
Average throughput: 5.19 Mbit/s
95th percentile per-packet one-way delay: 137.749 ms
Loss rate: 20.78%
-- Flow 3:
Average throughput: 4.77 Mbit/s
95th percentile per-packet one-way delay: 137.616 ms
Loss rate: 27.02%
```

Run 5: Report of Saturator — Data Link



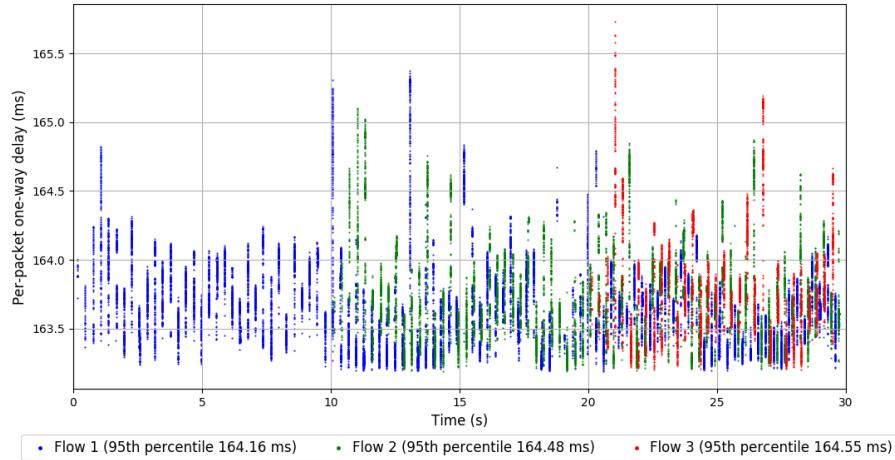
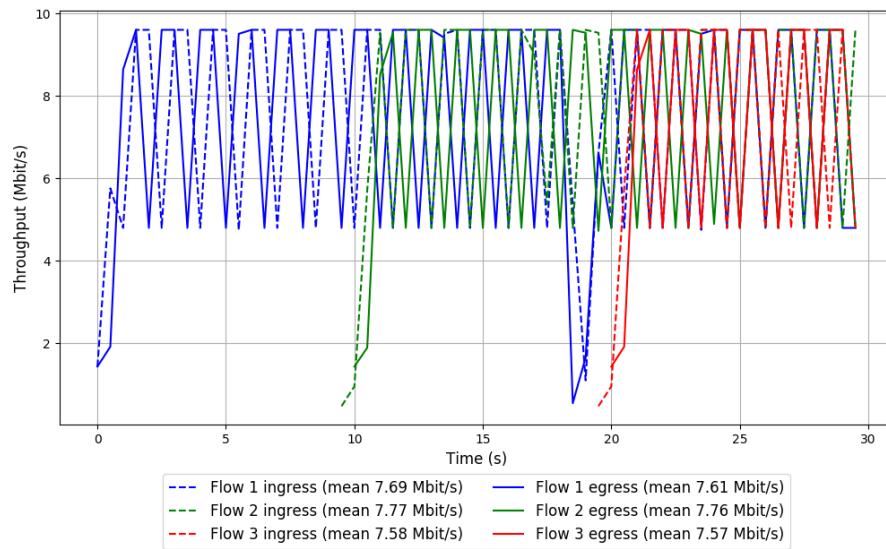
Run 6: Statistics of Saturator

Start at: 2017-08-12 13:52:47

End at: 2017-08-12 13:53:17

```
# Below is generated by plot.py at 2017-08-12 18:01:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.11 Mbit/s
95th percentile per-packet one-way delay: 164.352 ms
Loss rate: 2.08%
-- Flow 1:
Average throughput: 7.61 Mbit/s
95th percentile per-packet one-way delay: 164.160 ms
Loss rate: 2.02%
-- Flow 2:
Average throughput: 7.76 Mbit/s
95th percentile per-packet one-way delay: 164.483 ms
Loss rate: 1.61%
-- Flow 3:
Average throughput: 7.57 Mbit/s
95th percentile per-packet one-way delay: 164.548 ms
Loss rate: 3.28%
```

Run 6: Report of Saturator — Data Link



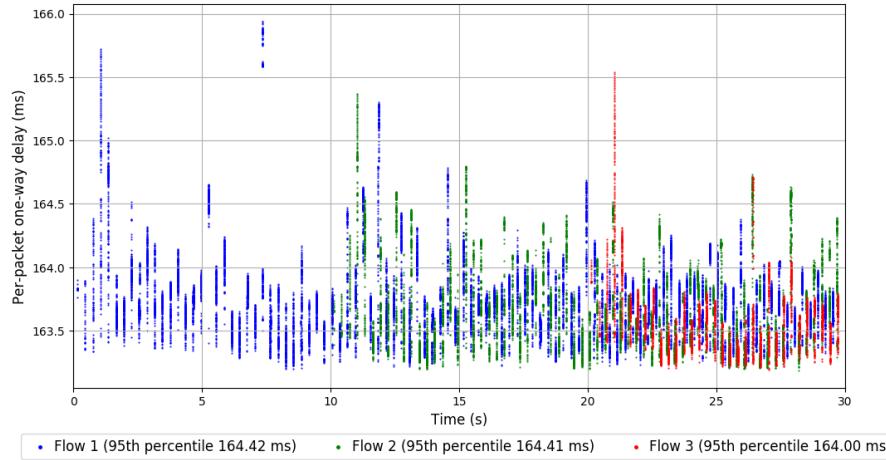
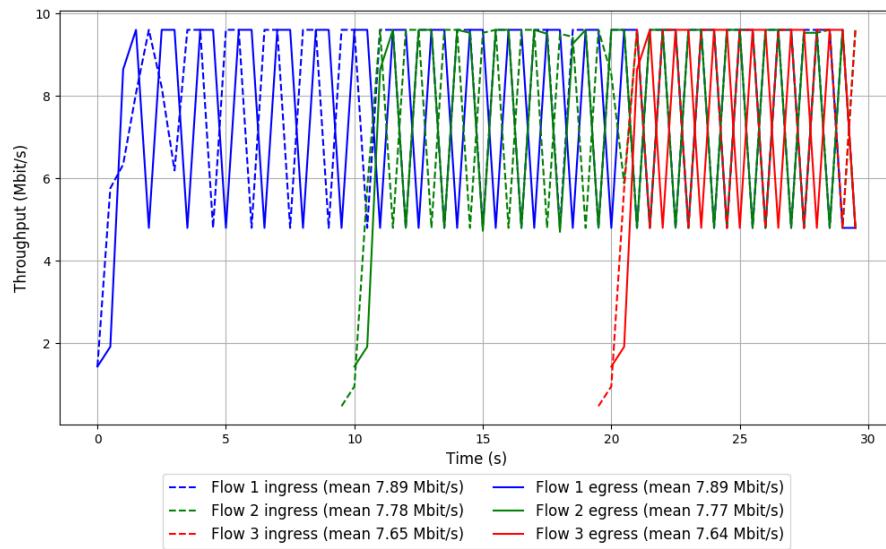
Run 7: Statistics of Saturator

Start at: 2017-08-12 14:05:57

End at: 2017-08-12 14:06:27

```
# Below is generated by plot.py at 2017-08-12 18:01:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.46 Mbit/s
95th percentile per-packet one-way delay: 164.374 ms
Loss rate: 1.60%
-- Flow 1:
Average throughput: 7.89 Mbit/s
95th percentile per-packet one-way delay: 164.421 ms
Loss rate: 1.03%
-- Flow 2:
Average throughput: 7.77 Mbit/s
95th percentile per-packet one-way delay: 164.408 ms
Loss rate: 1.68%
-- Flow 3:
Average throughput: 7.64 Mbit/s
95th percentile per-packet one-way delay: 163.999 ms
Loss rate: 3.17%
```

Run 7: Report of Saturator — Data Link



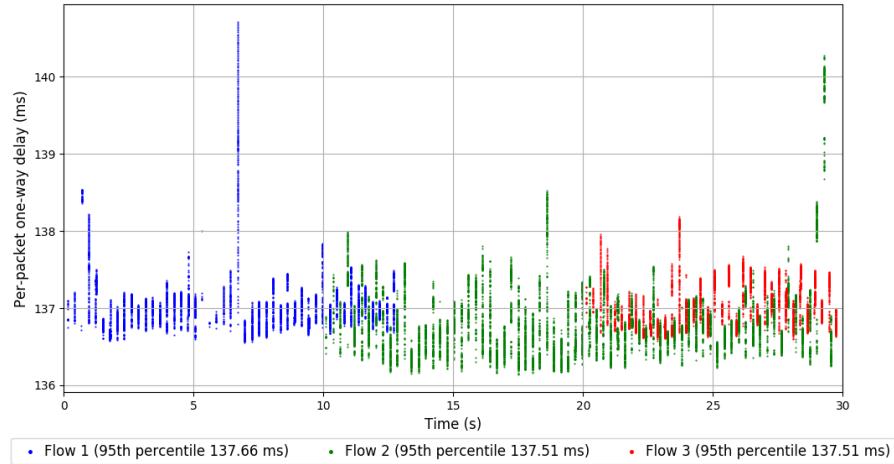
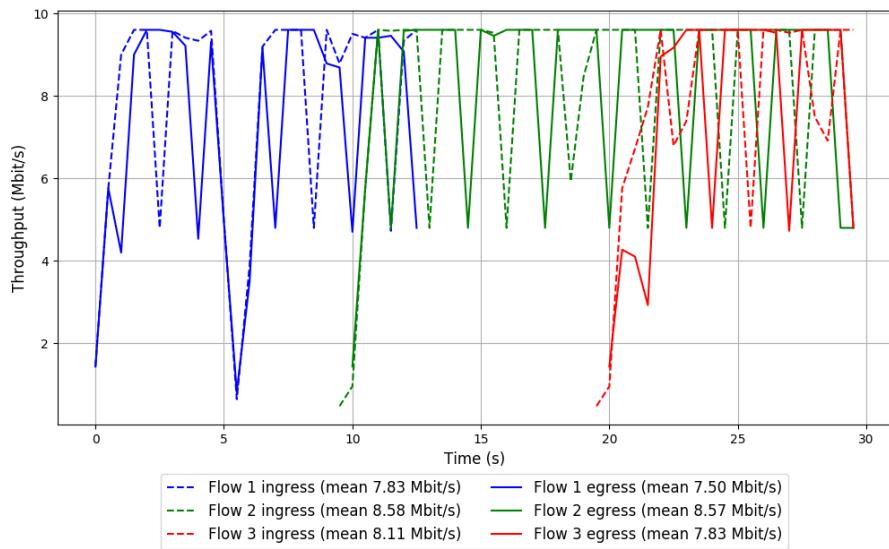
Run 8: Statistics of Saturator

Start at: 2017-08-12 14:19:39

End at: 2017-08-12 14:20:09

```
# Below is generated by plot.py at 2017-08-12 18:01:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.36 Mbit/s
95th percentile per-packet one-way delay: 137.522 ms
Loss rate: 3.88%
-- Flow 1:
Average throughput: 7.50 Mbit/s
95th percentile per-packet one-way delay: 137.664 ms
Loss rate: 6.16%
-- Flow 2:
Average throughput: 8.57 Mbit/s
95th percentile per-packet one-way delay: 137.507 ms
Loss rate: 1.45%
-- Flow 3:
Average throughput: 7.83 Mbit/s
95th percentile per-packet one-way delay: 137.510 ms
Loss rate: 6.13%
```

Run 8: Report of Saturator — Data Link



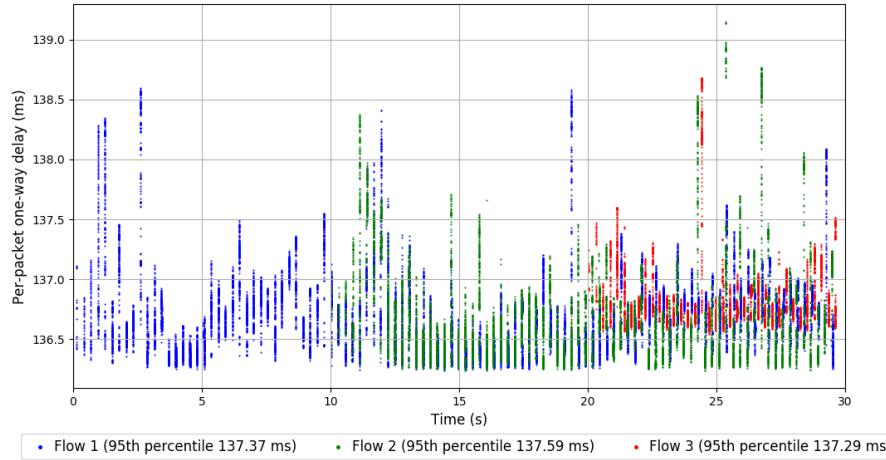
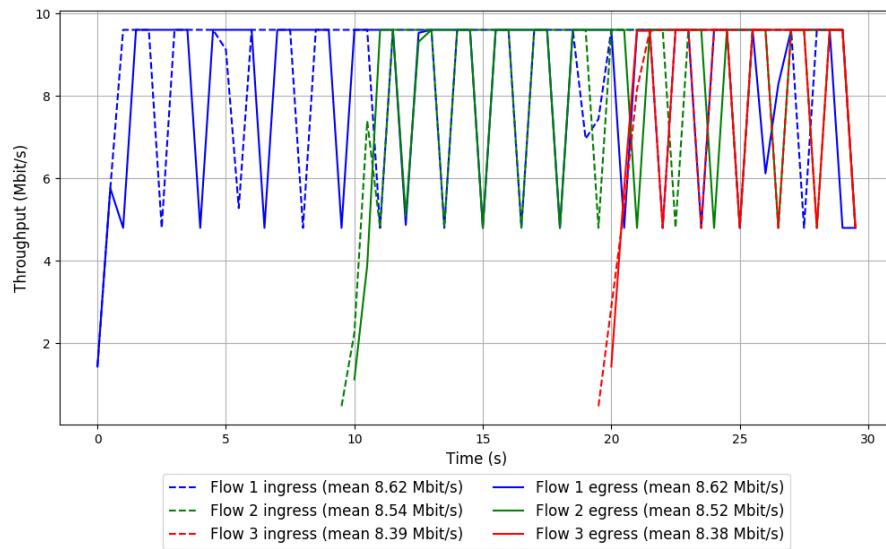
Run 9: Statistics of Saturator

Start at: 2017-08-12 14:33:39

End at: 2017-08-12 14:34:09

```
# Below is generated by plot.py at 2017-08-12 18:01:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 16.93 Mbit/s
95th percentile per-packet one-way delay: 137.446 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 8.62 Mbit/s
95th percentile per-packet one-way delay: 137.367 ms
Loss rate: 0.94%
-- Flow 2:
Average throughput: 8.52 Mbit/s
95th percentile per-packet one-way delay: 137.587 ms
Loss rate: 1.52%
-- Flow 3:
Average throughput: 8.38 Mbit/s
95th percentile per-packet one-way delay: 137.292 ms
Loss rate: 2.91%
```

Run 9: Report of Saturator — Data Link



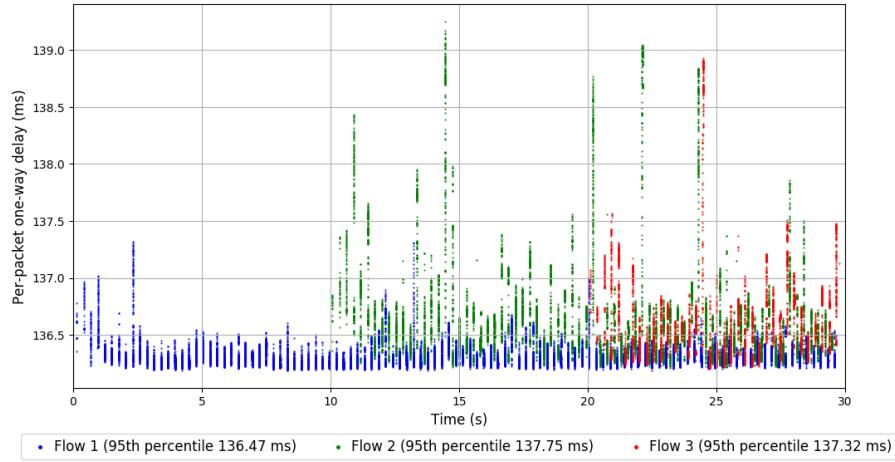
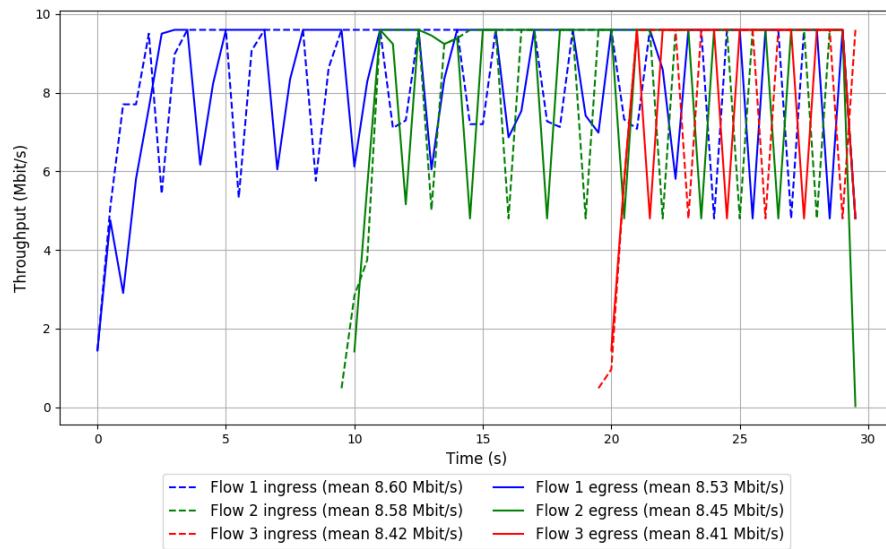
Run 10: Statistics of Saturator

Start at: 2017-08-12 14:47:42

End at: 2017-08-12 14:48:12

```
# Below is generated by plot.py at 2017-08-12 18:01:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 16.81 Mbit/s
95th percentile per-packet one-way delay: 137.113 ms
Loss rate: 1.87%
-- Flow 1:
Average throughput: 8.53 Mbit/s
95th percentile per-packet one-way delay: 136.472 ms
Loss rate: 1.76%
-- Flow 2:
Average throughput: 8.45 Mbit/s
95th percentile per-packet one-way delay: 137.755 ms
Loss rate: 1.53%
-- Flow 3:
Average throughput: 8.41 Mbit/s
95th percentile per-packet one-way delay: 137.325 ms
Loss rate: 2.90%
```

Run 10: Report of Saturator — Data Link

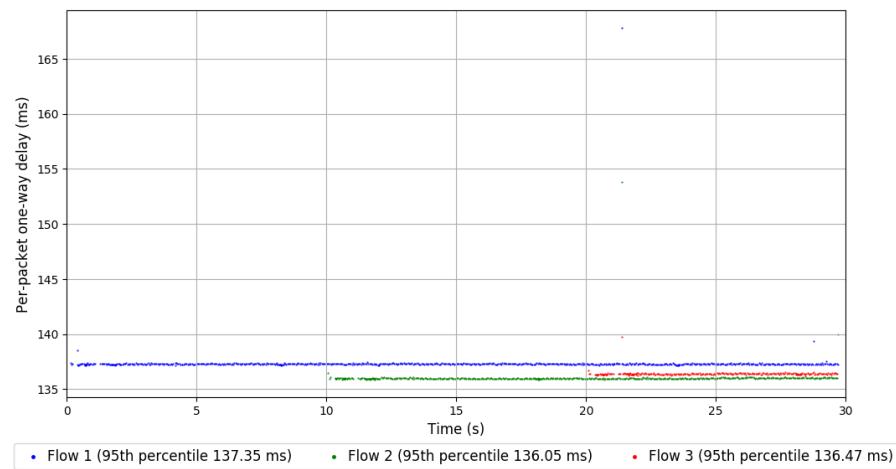
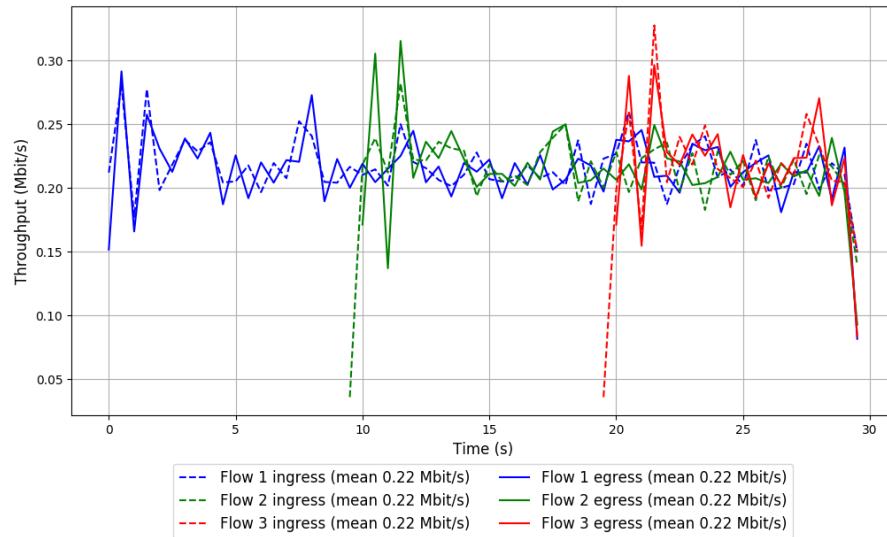


```
Run 1: Statistics of SCReAM

Start at: 2017-08-12 12:47:33
End at: 2017-08-12 12:48:03

# Below is generated by plot.py at 2017-08-12 18:01:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 137.332 ms
Loss rate: 1.31%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.348 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.053 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.469 ms
Loss rate: 2.63%
```

Run 1: Report of SCReAM — Data Link



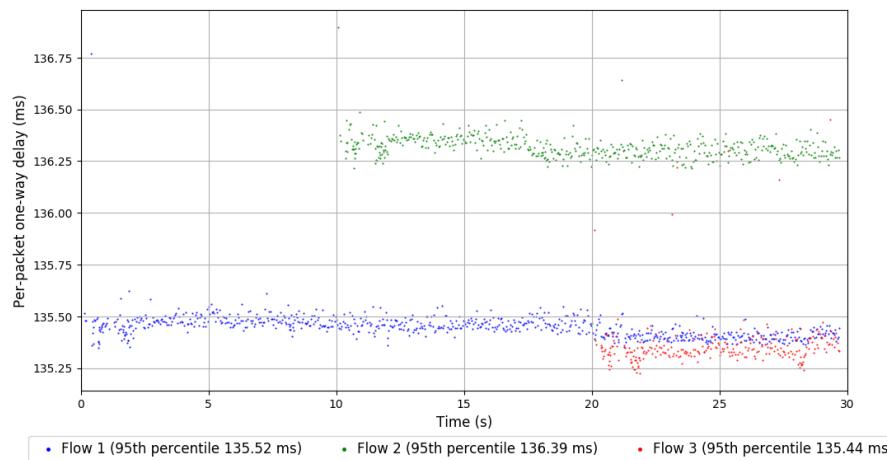
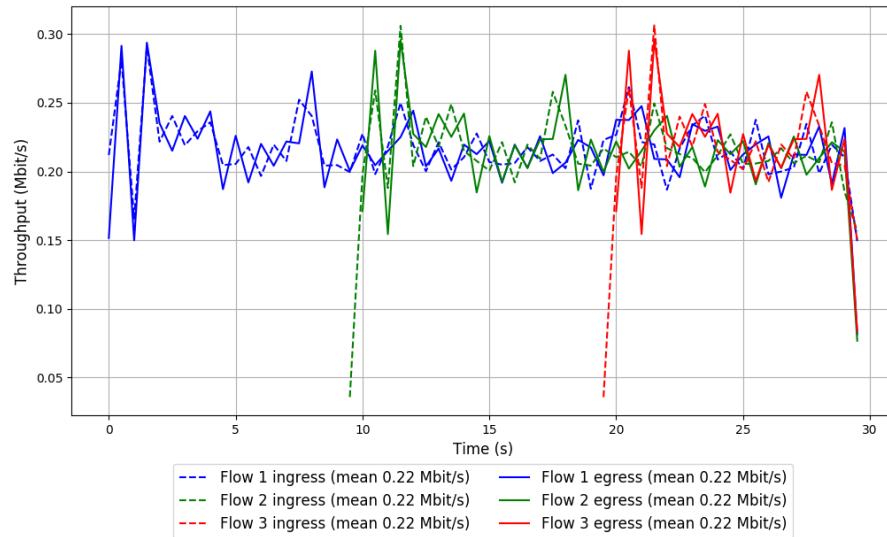
Run 2: Statistics of SCReAM

Start at: 2017-08-12 13:01:26

End at: 2017-08-12 13:01:56

```
# Below is generated by plot.py at 2017-08-12 18:01:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 136.368 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.519 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.391 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.440 ms
Loss rate: 2.63%
```

Run 2: Report of SCReAM — Data Link



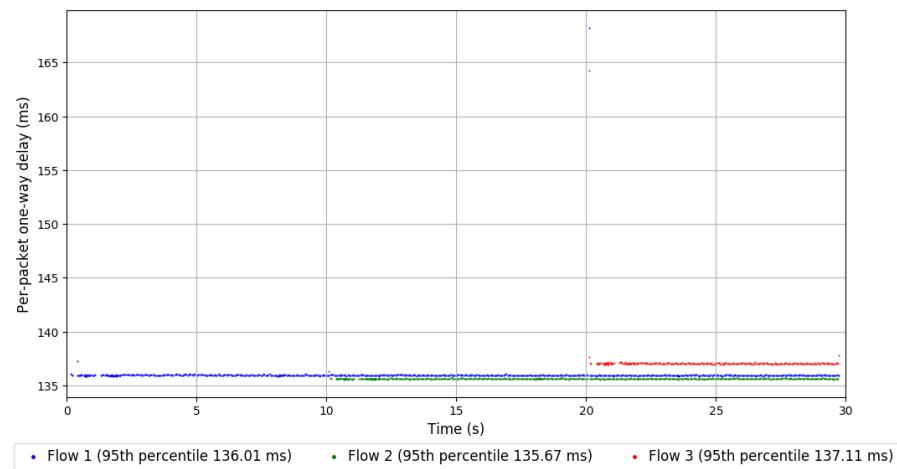
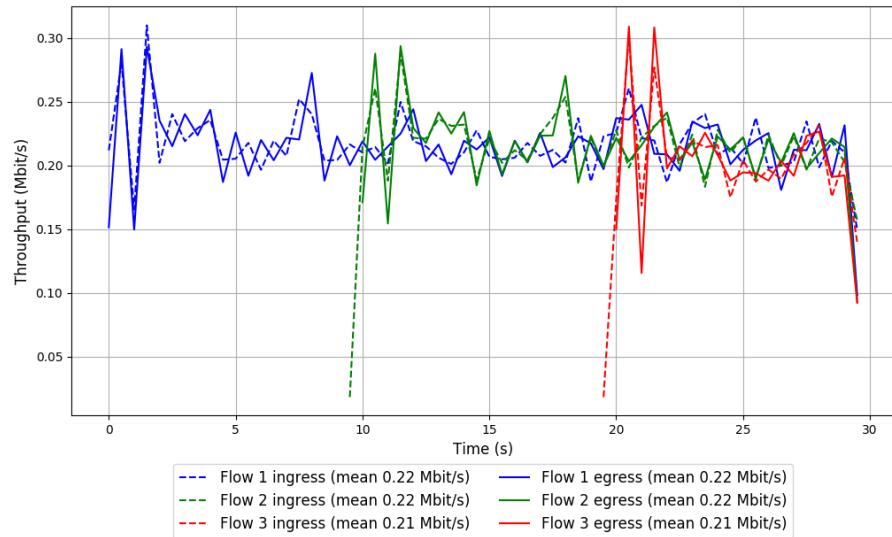
Run 3: Statistics of SCReAM

Start at: 2017-08-12 13:15:17

End at: 2017-08-12 13:15:47

```
# Below is generated by plot.py at 2017-08-12 18:01:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 137.060 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.007 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.672 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 137.107 ms
Loss rate: 2.61%
```

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



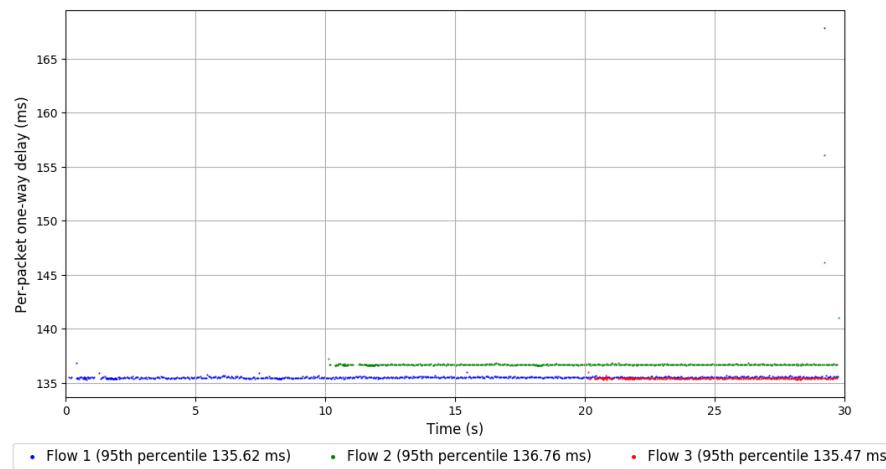
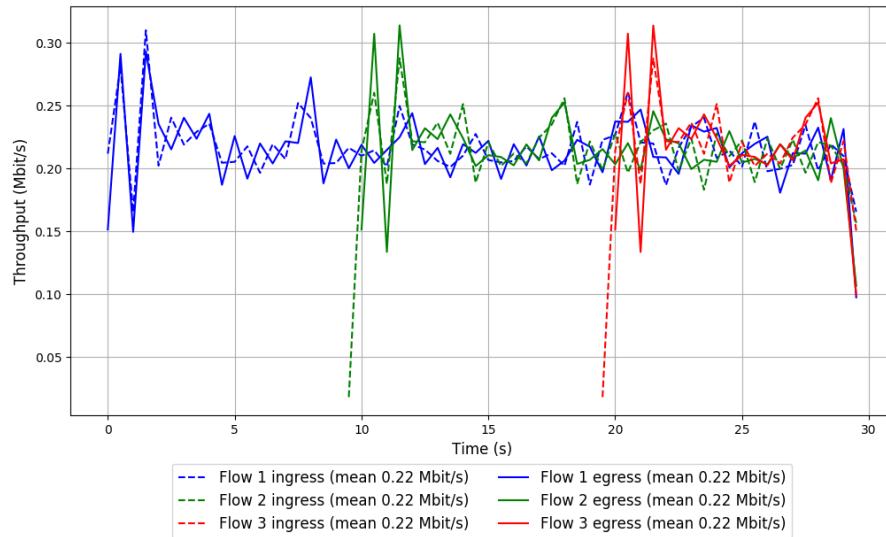
Run 4: Statistics of SCReAM

Start at: 2017-08-12 13:29:06

End at: 2017-08-12 13:29:36

```
# Below is generated by plot.py at 2017-08-12 18:01:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 136.717 ms
Loss rate: 1.31%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.617 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.757 ms
Loss rate: 1.25%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.468 ms
Loss rate: 2.65%
```

Run 4: Report of SCReAM — Data Link



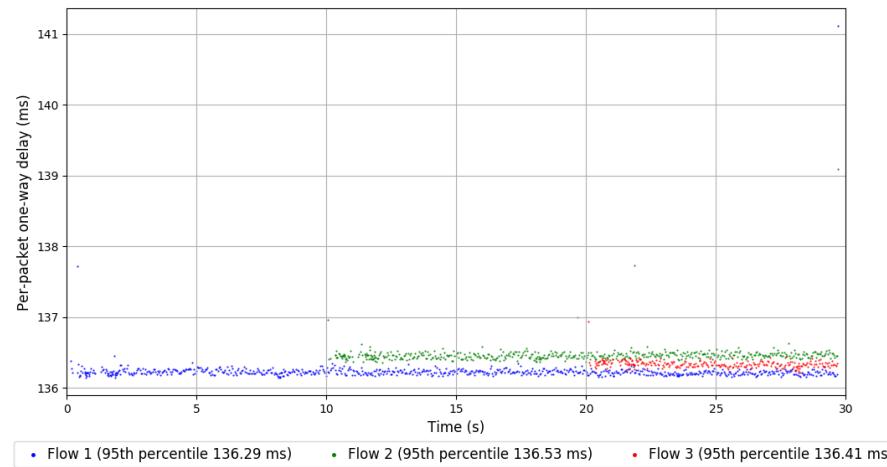
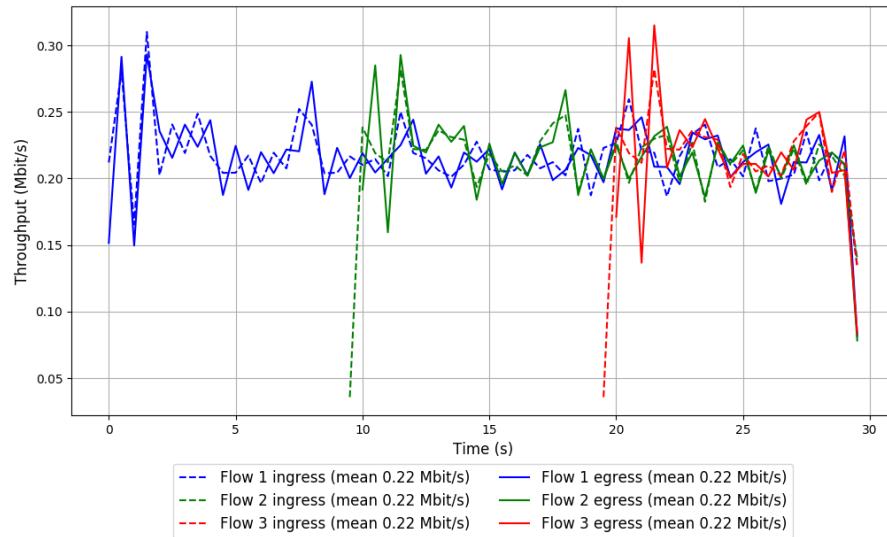
Run 5: Statistics of SCReAM

Start at: 2017-08-12 13:43:40

End at: 2017-08-12 13:44:10

```
# Below is generated by plot.py at 2017-08-12 18:01:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 136.502 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.286 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.526 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.405 ms
Loss rate: 2.63%
```

Run 5: Report of SCReAM — Data Link



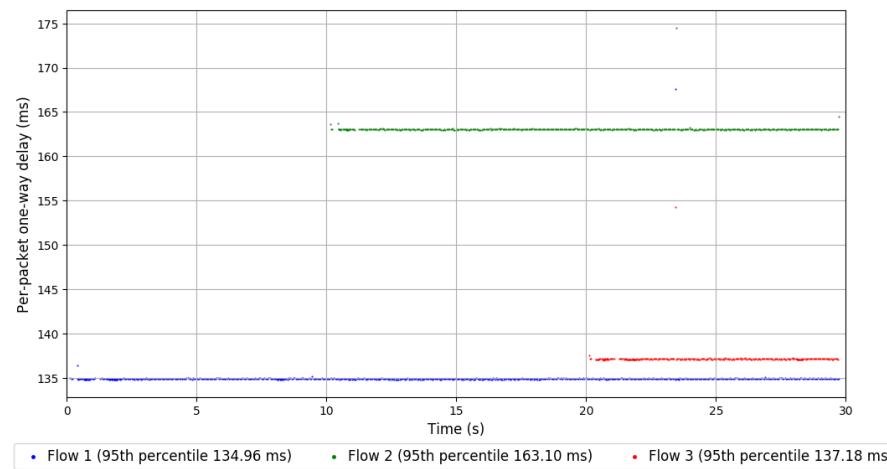
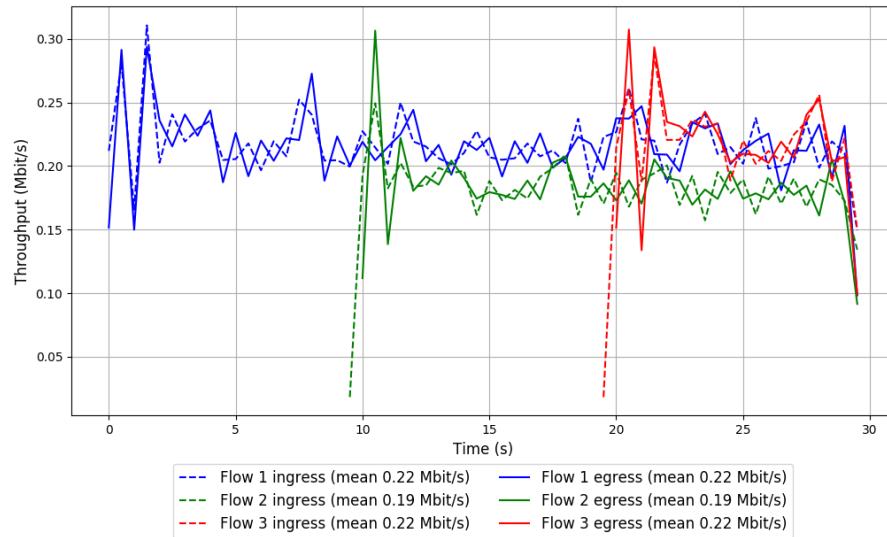
Run 6: Statistics of SCReAM

Start at: 2017-08-12 13:57:03

End at: 2017-08-12 13:57:33

```
# Below is generated by plot.py at 2017-08-12 18:01:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 163.064 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 134.959 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 163.099 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.183 ms
Loss rate: 2.63%
```

Run 6: Report of SCReAM — Data Link



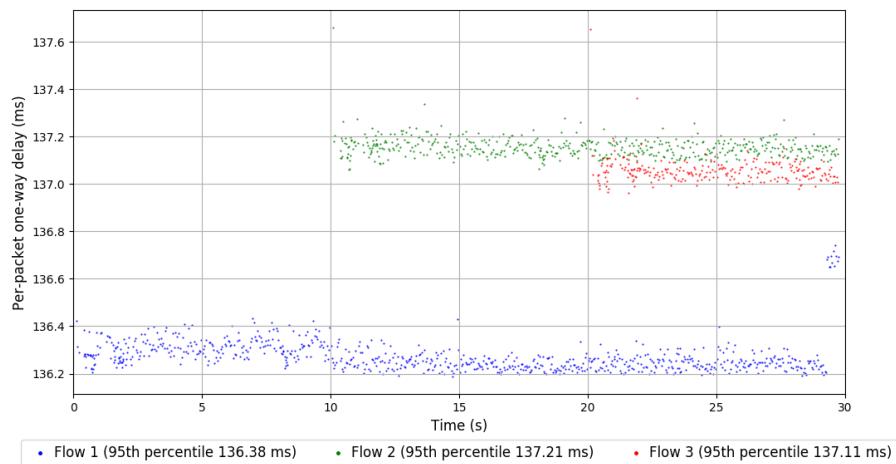
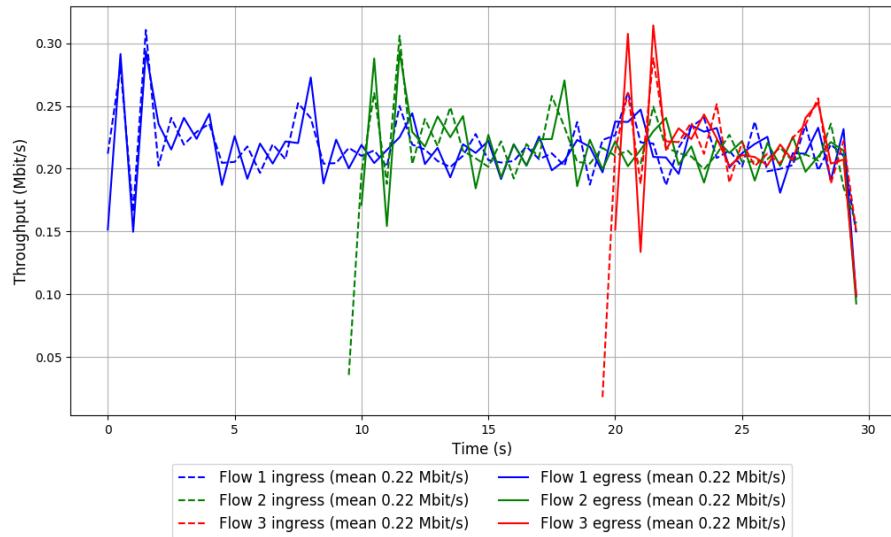
Run 7: Statistics of SCReAM

Start at: 2017-08-12 14:10:26

End at: 2017-08-12 14:10:56

```
# Below is generated by plot.py at 2017-08-12 18:01:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 137.188 ms
Loss rate: 1.24%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.378 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.212 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.112 ms
Loss rate: 2.63%
```

Run 7: Report of SCReAM — Data Link



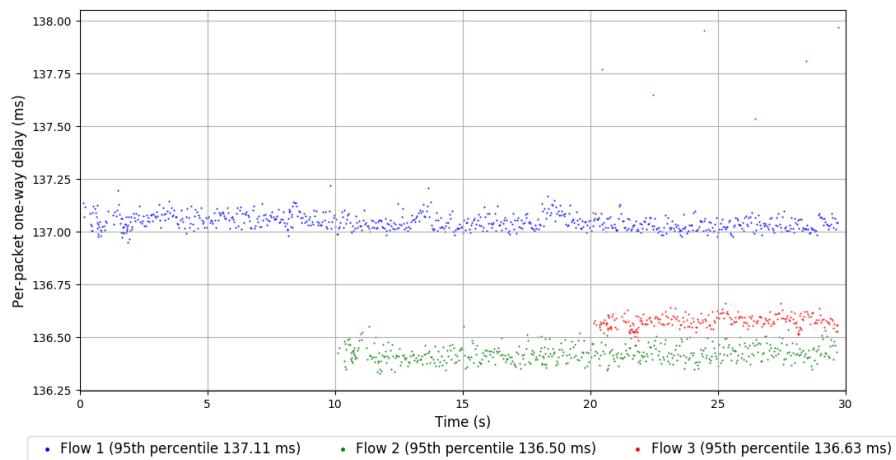
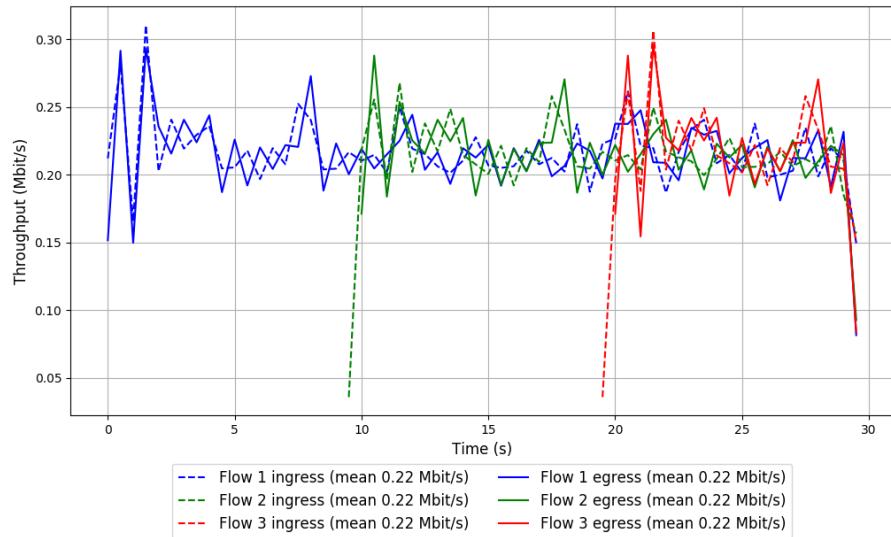
Run 8: Statistics of SCReAM

Start at: 2017-08-12 14:24:19

End at: 2017-08-12 14:24:49

```
# Below is generated by plot.py at 2017-08-12 18:01:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 137.096 ms
Loss rate: 1.31%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.114 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.495 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.627 ms
Loss rate: 2.63%
```

Run 8: Report of SCReAM — Data Link



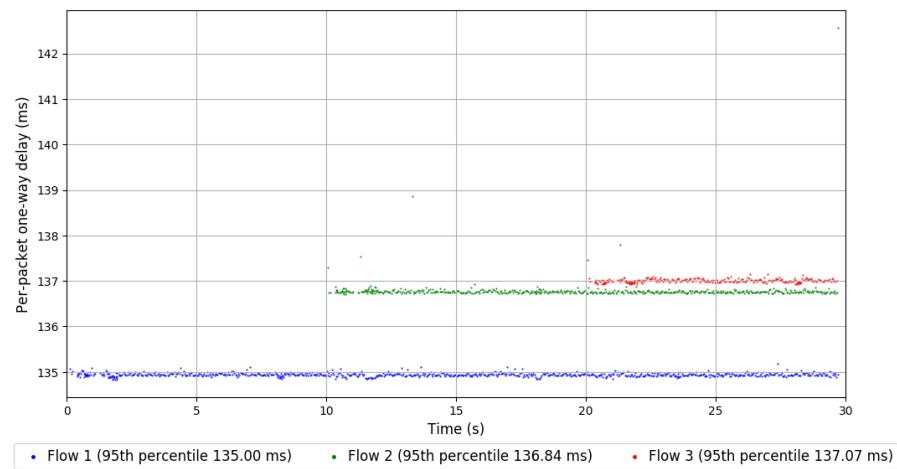
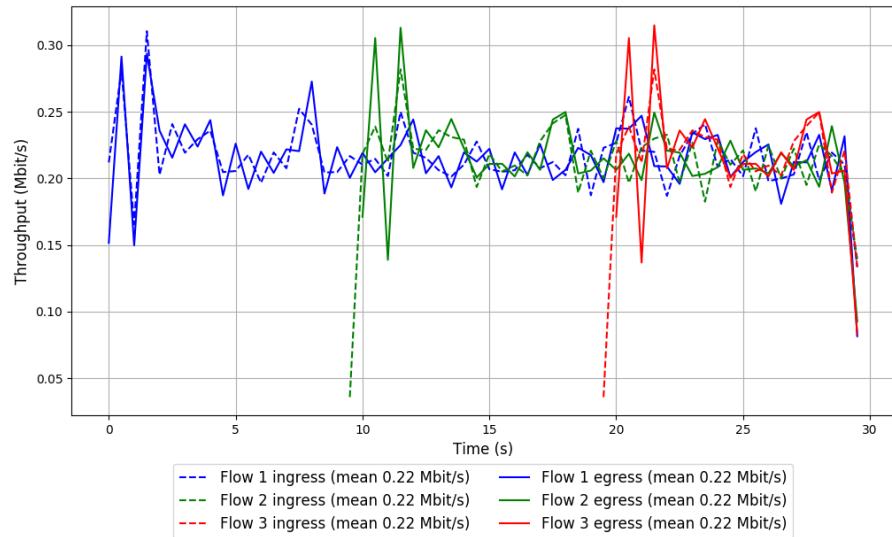
Run 9: Statistics of SCReAM

Start at: 2017-08-12 14:38:18

End at: 2017-08-12 14:38:48

```
# Below is generated by plot.py at 2017-08-12 18:01:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 137.027 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 134.999 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.835 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.072 ms
Loss rate: 2.63%
```

Run 9: Report of SCReAM — Data Link



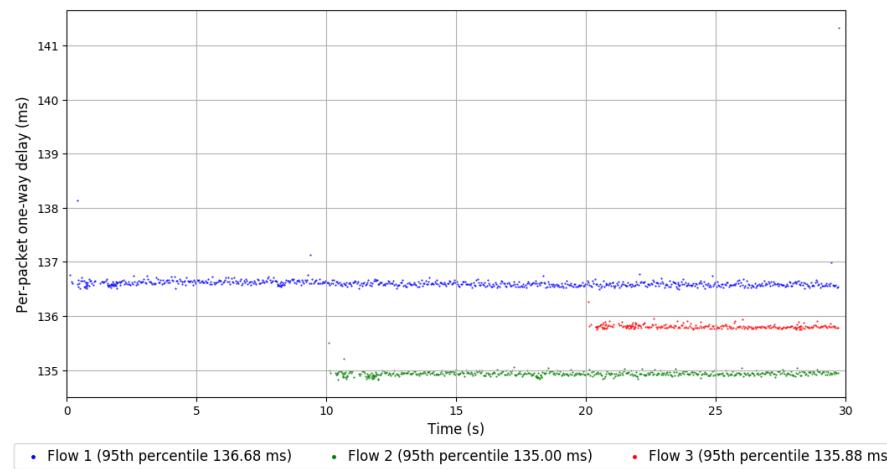
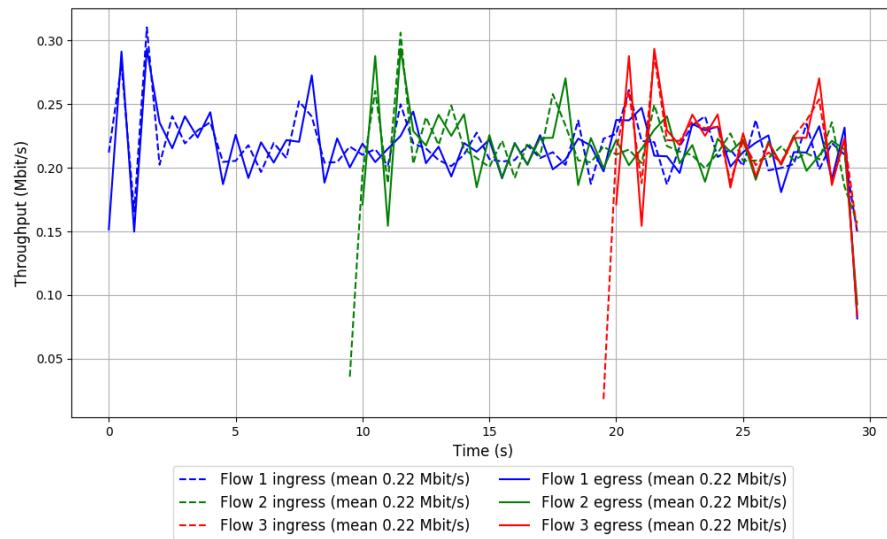
Run 10: Statistics of SCReAM

Start at: 2017-08-12 14:52:27

End at: 2017-08-12 14:52:57

```
# Below is generated by plot.py at 2017-08-12 18:01:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 136.660 ms
Loss rate: 1.31%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.676 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 134.997 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.882 ms
Loss rate: 2.63%
```

## Run 10: Report of SCReAM — Data Link



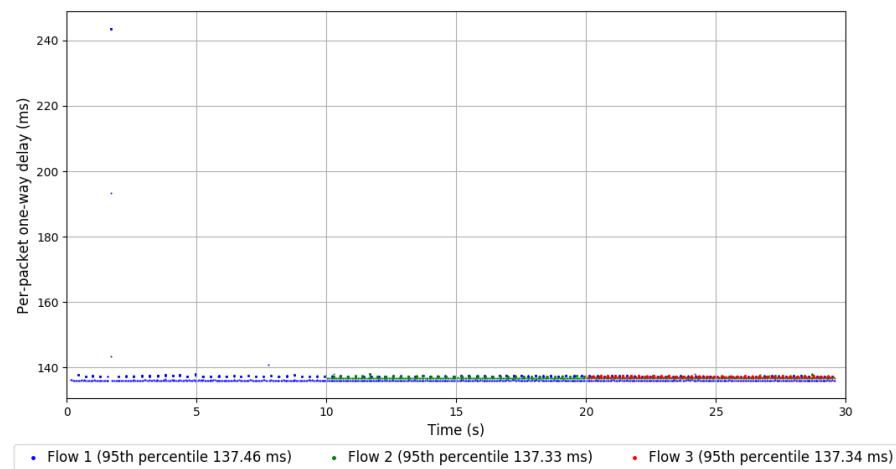
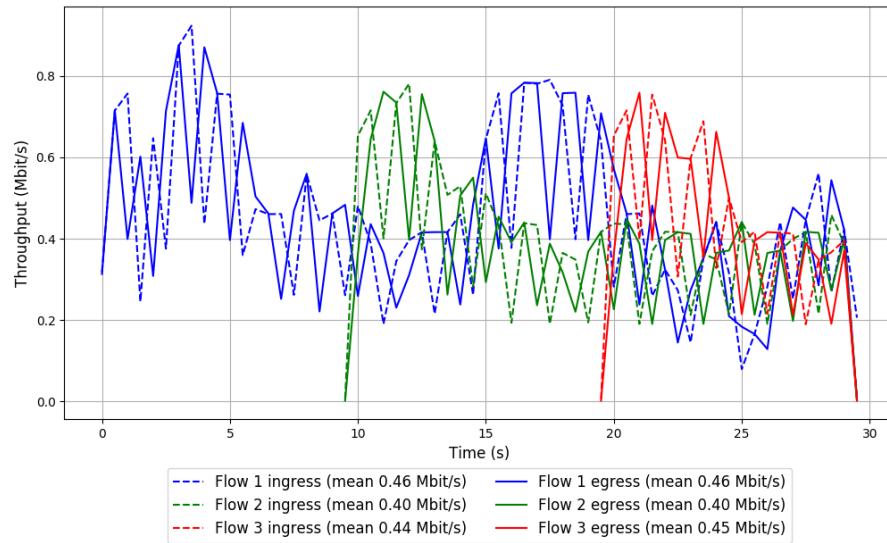
Run 1: Statistics of Sprout

Start at: 2017-08-12 12:45:33

End at: 2017-08-12 12:46:03

```
# Below is generated by plot.py at 2017-08-12 18:01:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.87 Mbit/s
95th percentile per-packet one-way delay: 137.399 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 137.460 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 137.330 ms
Loss rate: 1.15%
-- Flow 3:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 137.340 ms
Loss rate: 2.40%
```

## Run 1: Report of Sprout — Data Link



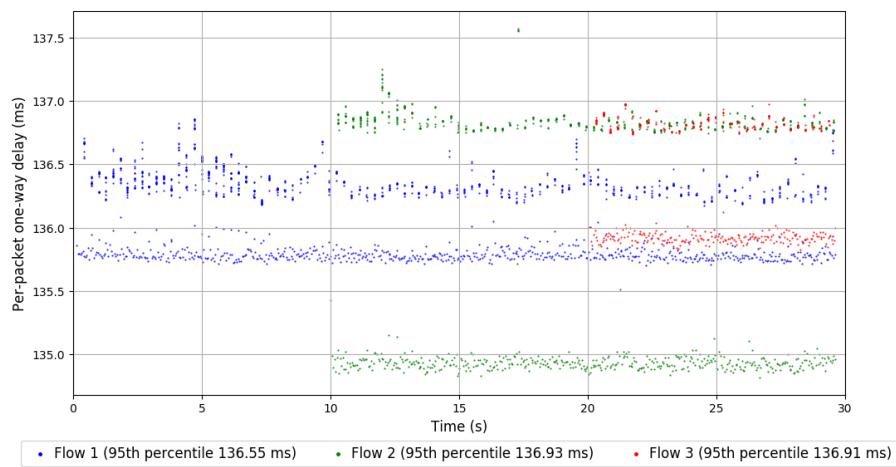
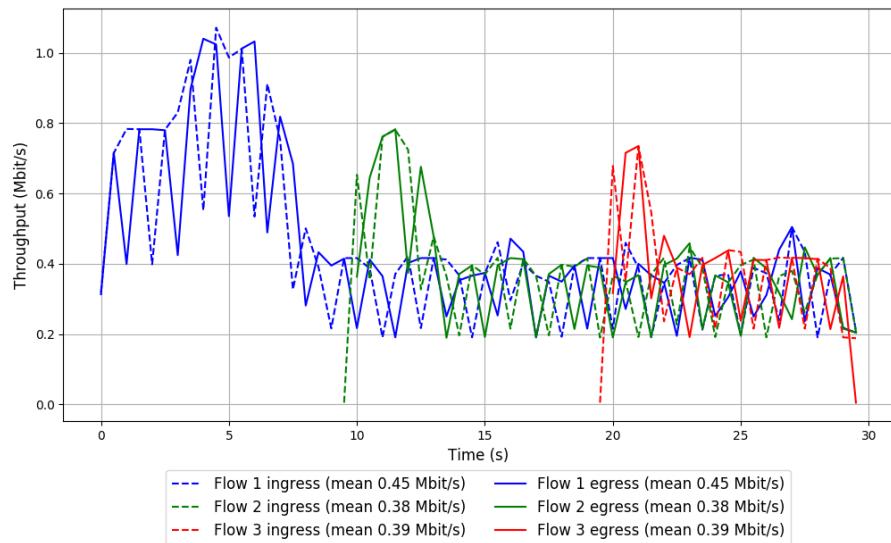
Run 2: Statistics of Sprout

Start at: 2017-08-12 12:59:24

End at: 2017-08-12 12:59:54

```
# Below is generated by plot.py at 2017-08-12 18:01:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.83 Mbit/s
95th percentile per-packet one-way delay: 136.878 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 136.554 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 136.933 ms
Loss rate: 1.36%
-- Flow 3:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 136.906 ms
Loss rate: 2.45%
```

Run 2: Report of Sprout — Data Link



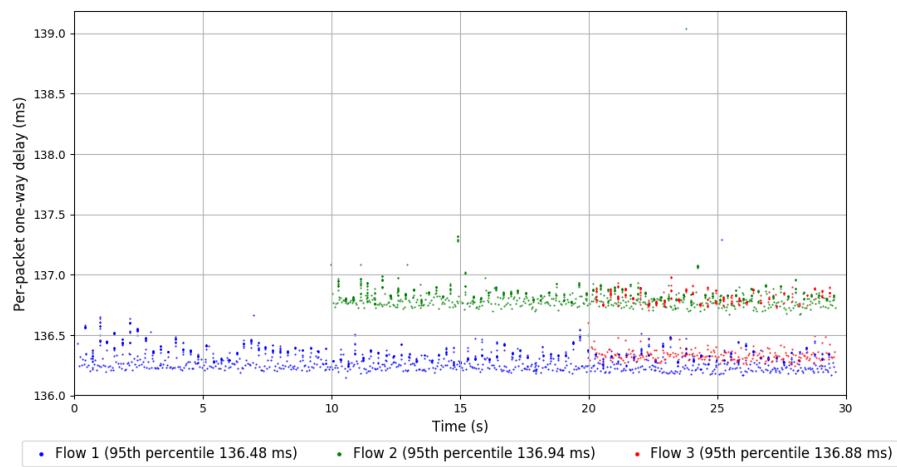
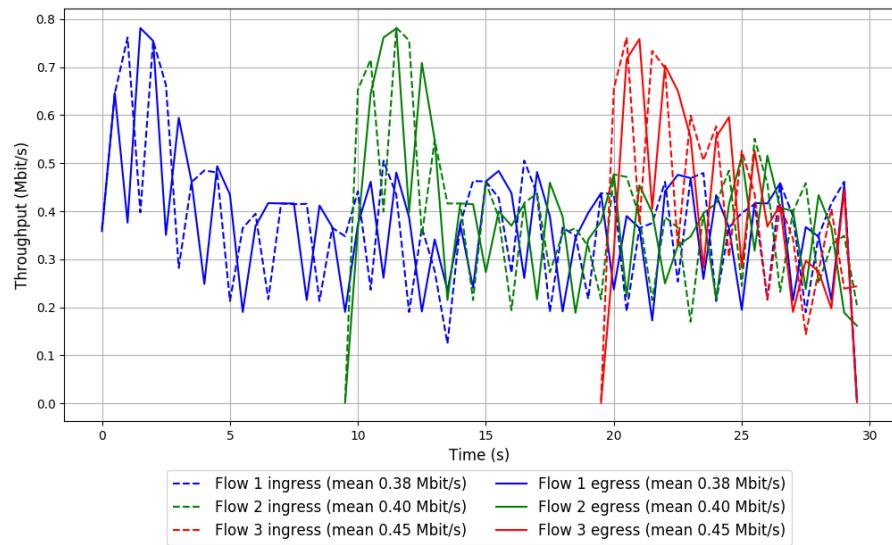
Run 3: Statistics of Sprout

Start at: 2017-08-12 13:13:22

End at: 2017-08-12 13:13:52

```
# Below is generated by plot.py at 2017-08-12 18:01:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.79 Mbit/s
95th percentile per-packet one-way delay: 136.893 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 136.480 ms
Loss rate: 0.96%
-- Flow 2:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 136.944 ms
Loss rate: 1.29%
-- Flow 3:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 136.885 ms
Loss rate: 2.80%
```

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



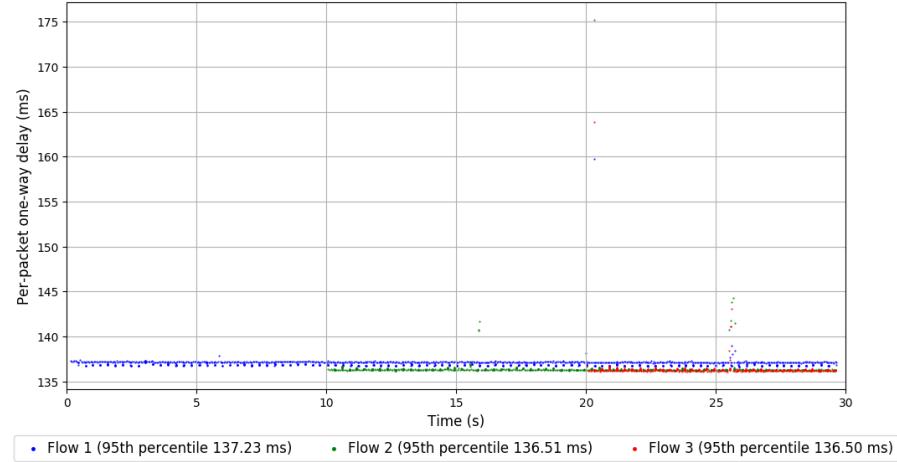
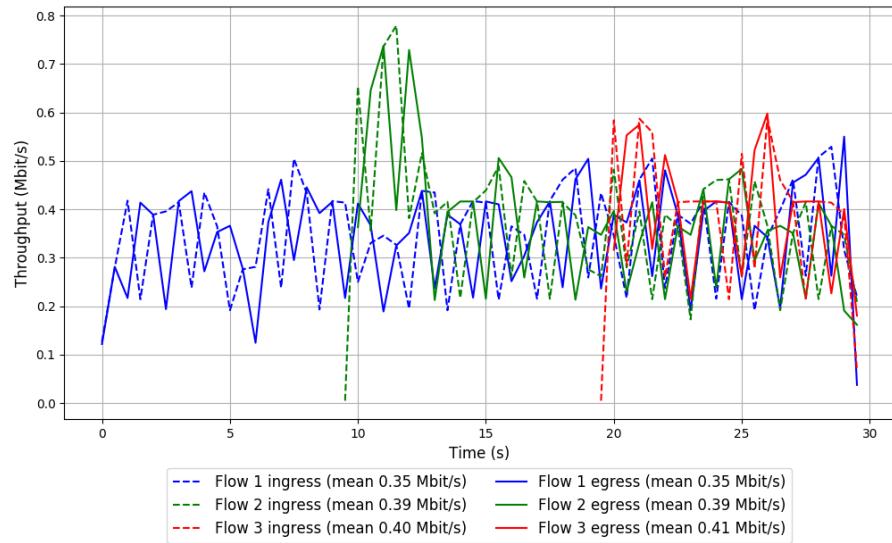
Run 4: Statistics of Sprout

Start at: 2017-08-12 13:27:12

End at: 2017-08-12 13:27:42

```
# Below is generated by plot.py at 2017-08-12 18:01:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.74 Mbit/s
95th percentile per-packet one-way delay: 137.205 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 137.227 ms
Loss rate: 1.06%
-- Flow 2:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 136.511 ms
Loss rate: 1.36%
-- Flow 3:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 136.497 ms
Loss rate: 0.87%
```

Run 4: Report of Sprout — Data Link



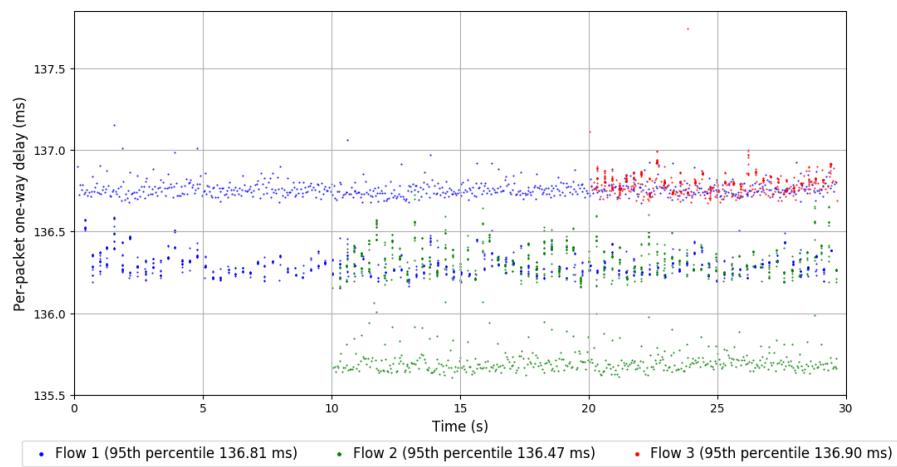
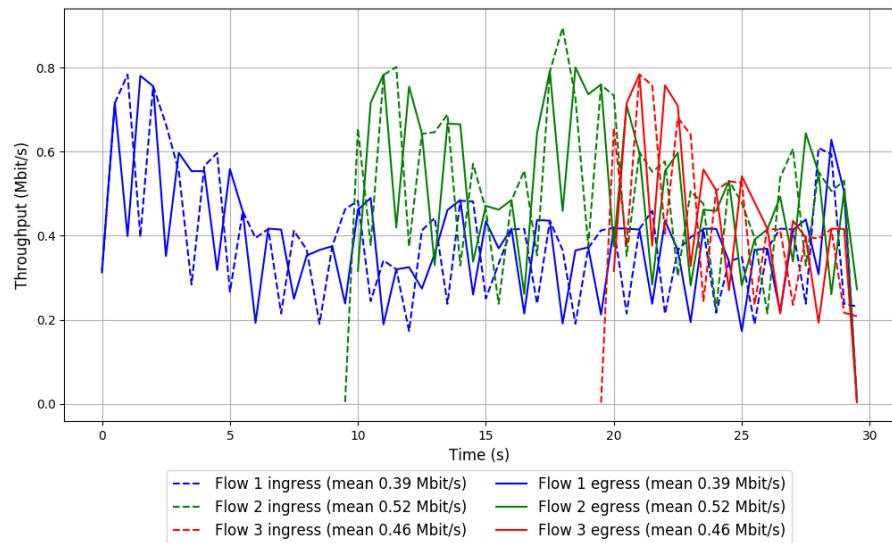
Run 5: Statistics of Sprout

Start at: 2017-08-12 13:41:42

End at: 2017-08-12 13:42:12

```
# Below is generated by plot.py at 2017-08-12 18:01:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.89 Mbit/s
95th percentile per-packet one-way delay: 136.836 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 136.809 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 136.473 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 136.903 ms
Loss rate: 2.31%
```

Run 5: Report of Sprout — Data Link



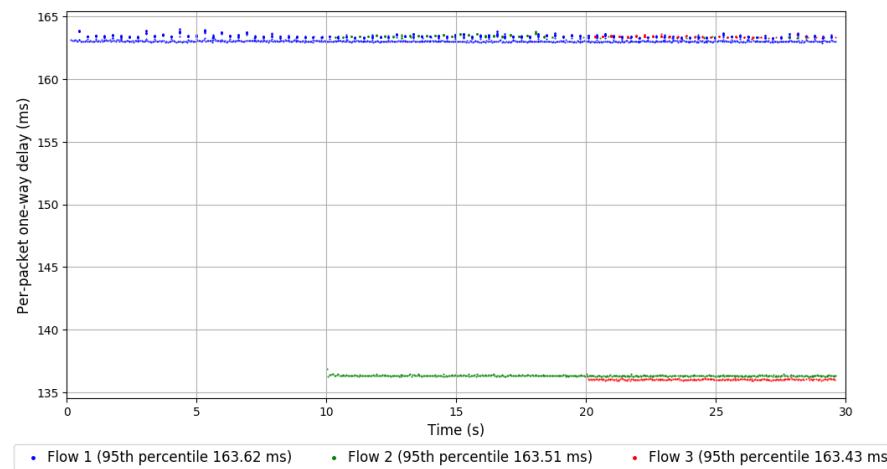
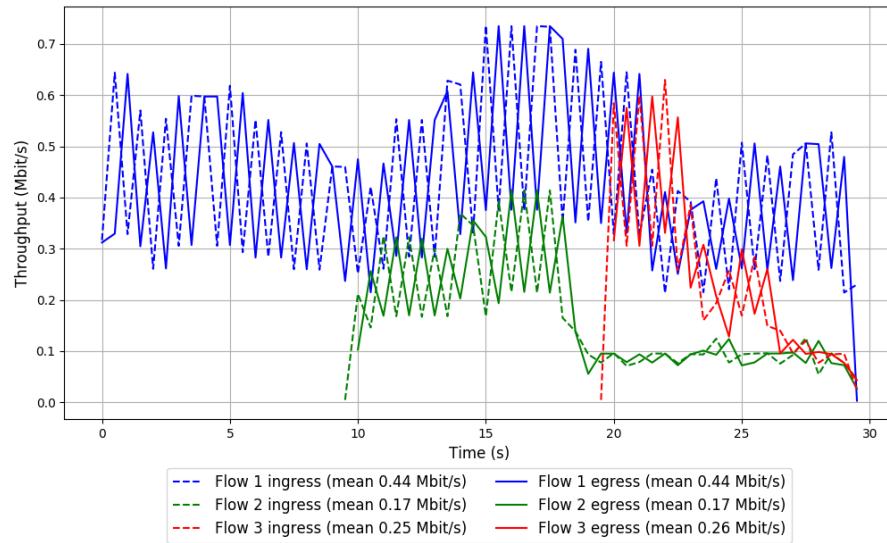
Run 6: Statistics of Sprout

Start at: 2017-08-12 13:55:18

End at: 2017-08-12 13:55:48

```
# Below is generated by plot.py at 2017-08-12 18:01:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.63 Mbit/s
95th percentile per-packet one-way delay: 163.568 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 163.617 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 163.508 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 0.26 Mbit/s
95th percentile per-packet one-way delay: 163.432 ms
Loss rate: 0.52%
```

Run 6: Report of Sprout — Data Link



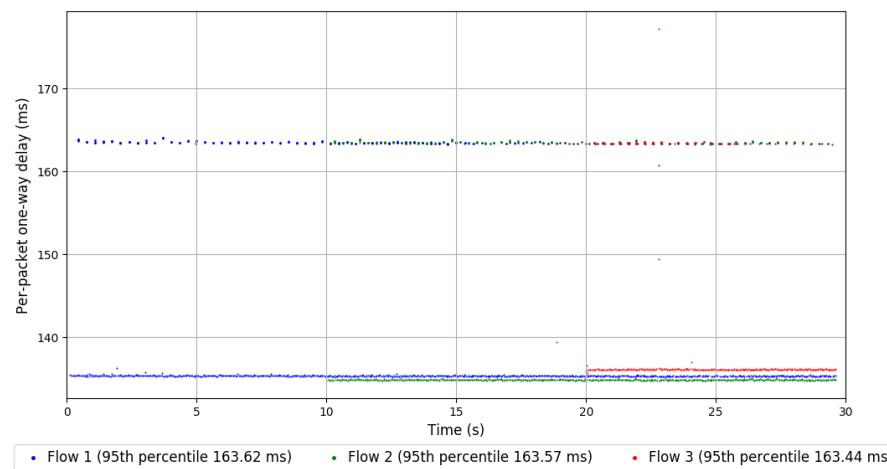
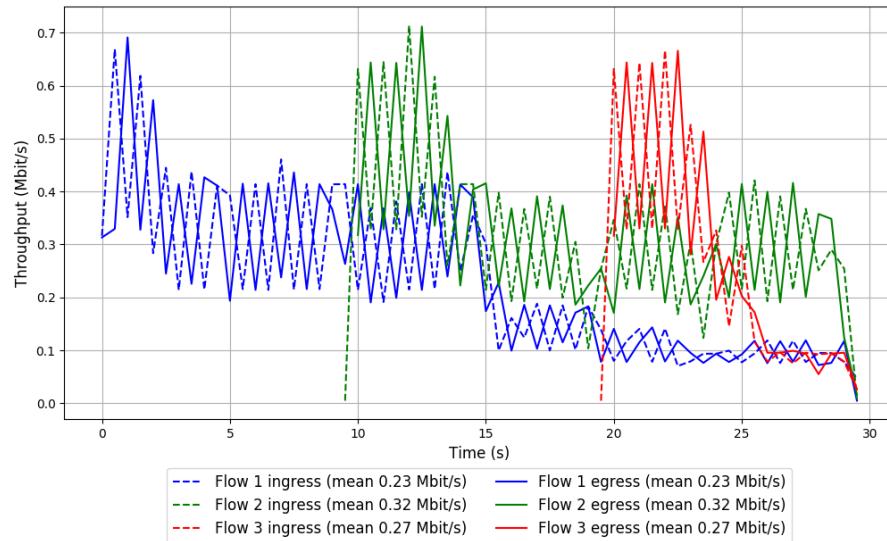
Run 7: Statistics of Sprout

Start at: 2017-08-12 14:08:27

End at: 2017-08-12 14:08:57

```
# Below is generated by plot.py at 2017-08-12 18:01:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 163.573 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 163.615 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 163.572 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 0.27 Mbit/s
95th percentile per-packet one-way delay: 163.442 ms
Loss rate: 0.49%
```

## Run 7: Report of Sprout — Data Link



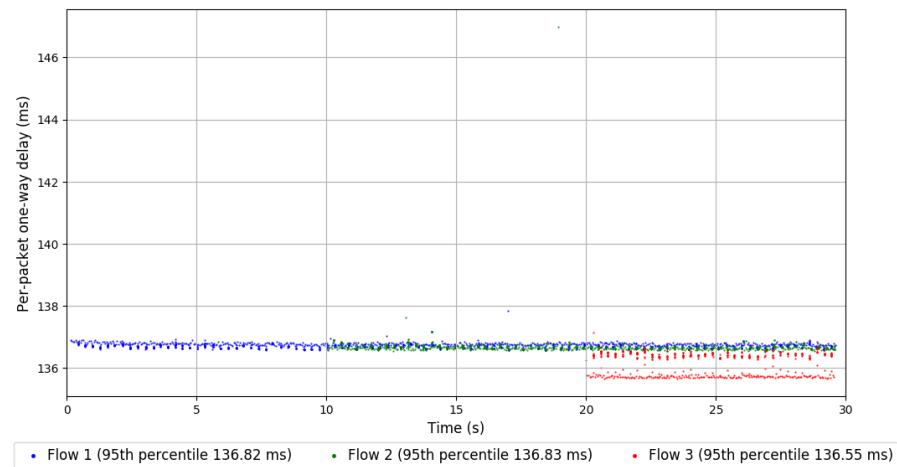
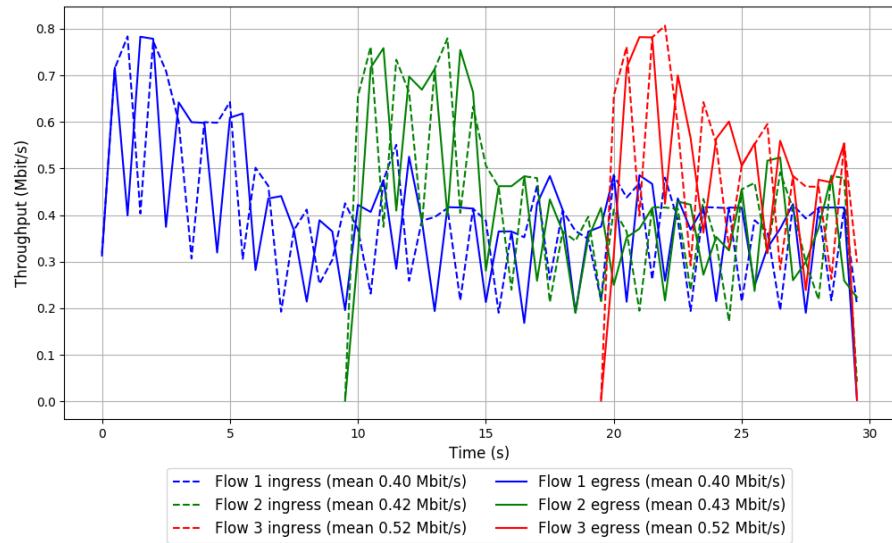
Run 8: Statistics of Sprout

Start at: 2017-08-12 14:22:20

End at: 2017-08-12 14:22:50

```
# Below is generated by plot.py at 2017-08-12 18:01:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.86 Mbit/s
95th percentile per-packet one-way delay: 136.815 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 136.824 ms
Loss rate: 0.87%
-- Flow 2:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 136.826 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 136.549 ms
Loss rate: 2.92%
```

Run 8: Report of Sprout — Data Link



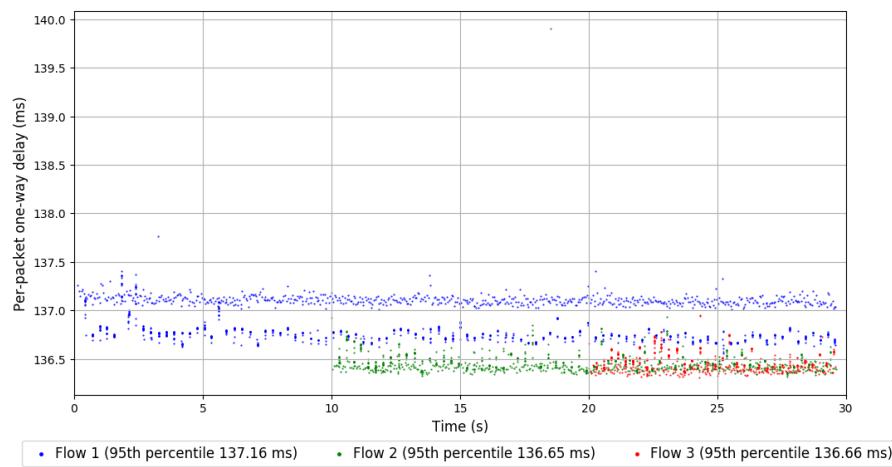
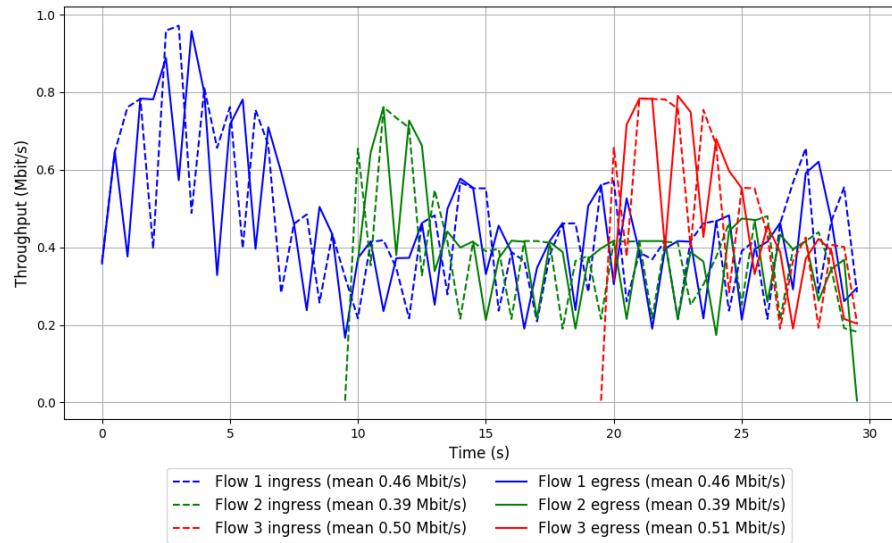
Run 9: Statistics of Sprout

Start at: 2017-08-12 14:36:20

End at: 2017-08-12 14:36:50

```
# Below is generated by plot.py at 2017-08-12 18:01:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.89 Mbit/s
95th percentile per-packet one-way delay: 137.138 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 137.161 ms
Loss rate: 1.03%
-- Flow 2:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 136.647 ms
Loss rate: 1.17%
-- Flow 3:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 136.662 ms
Loss rate: 2.09%
```

## Run 9: Report of Sprout — Data Link



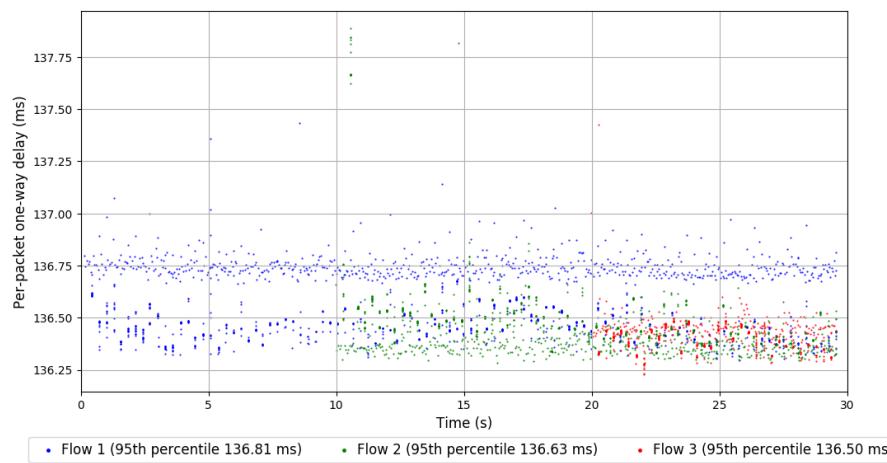
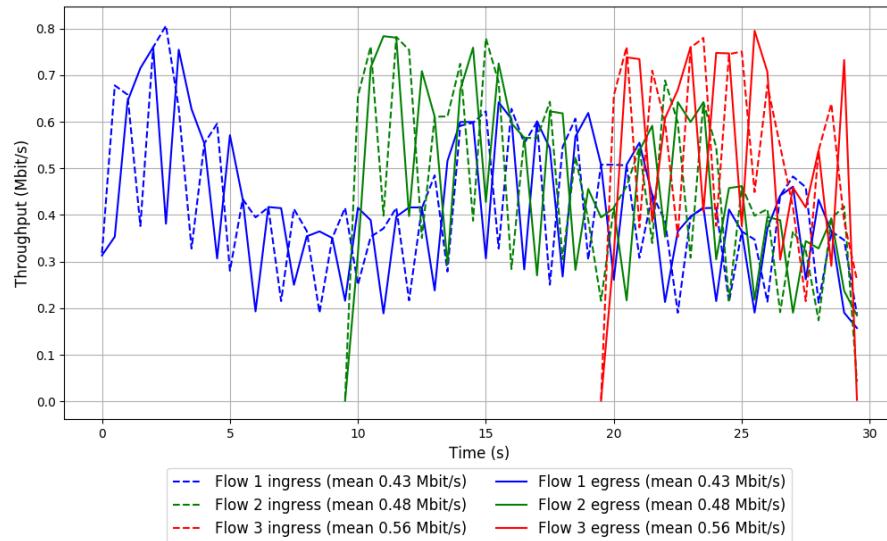
Run 10: Statistics of Sprout

Start at: 2017-08-12 14:50:29

End at: 2017-08-12 14:50:59

```
# Below is generated by plot.py at 2017-08-12 18:01:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.93 Mbit/s
95th percentile per-packet one-way delay: 136.774 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 136.805 ms
Loss rate: 0.74%
-- Flow 2:
Average throughput: 0.48 Mbit/s
95th percentile per-packet one-way delay: 136.627 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 136.500 ms
Loss rate: 2.39%
```

## Run 10: Report of Sprout — Data Link

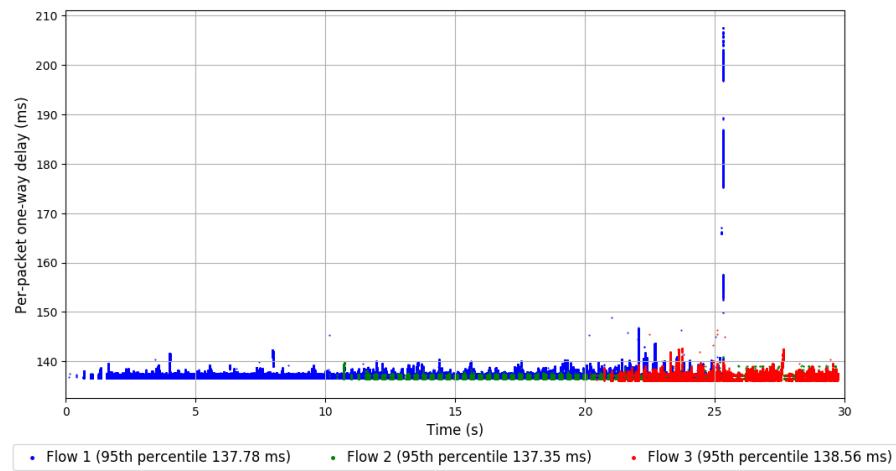
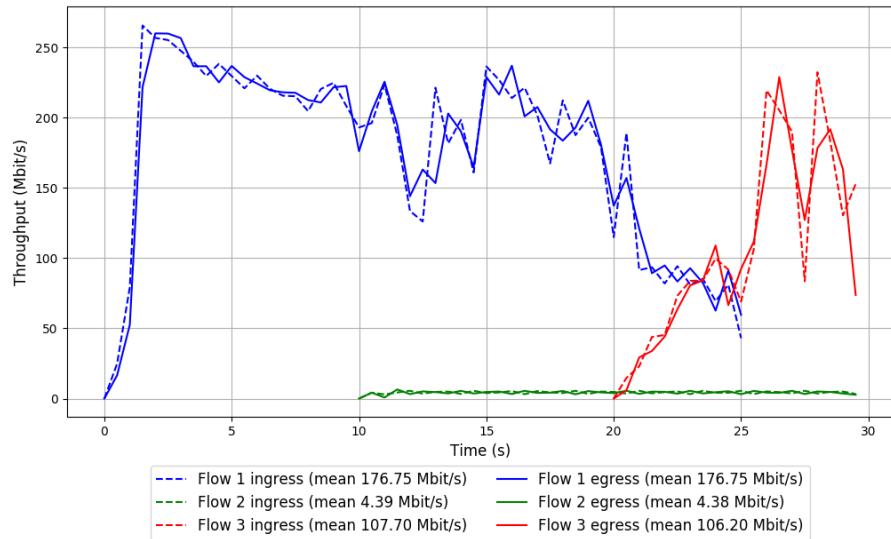


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-08-12 12:46:22
End at: 2017-08-12 12:46:52

# Below is generated by plot.py at 2017-08-12 18:02:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 187.88 Mbit/s
95th percentile per-packet one-way delay: 137.979 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 176.75 Mbit/s
95th percentile per-packet one-way delay: 137.776 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.38 Mbit/s
95th percentile per-packet one-way delay: 137.353 ms
Loss rate: 1.86%
-- Flow 3:
Average throughput: 106.20 Mbit/s
95th percentile per-packet one-way delay: 138.562 ms
Loss rate: 4.88%
```

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



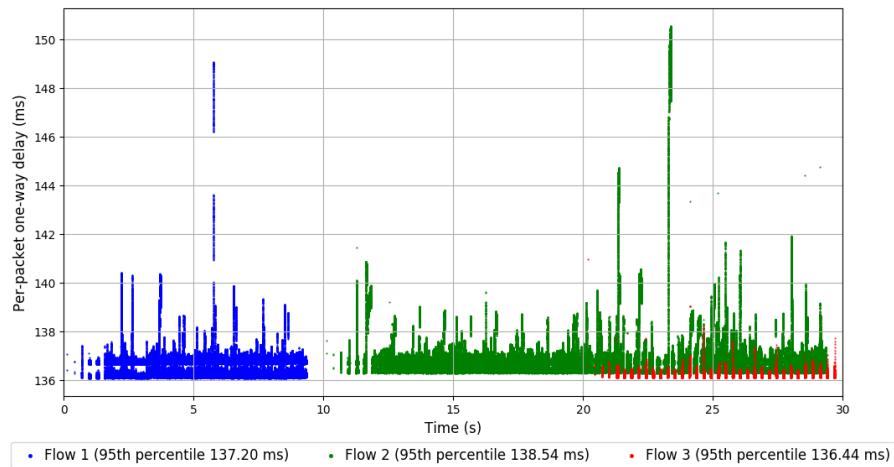
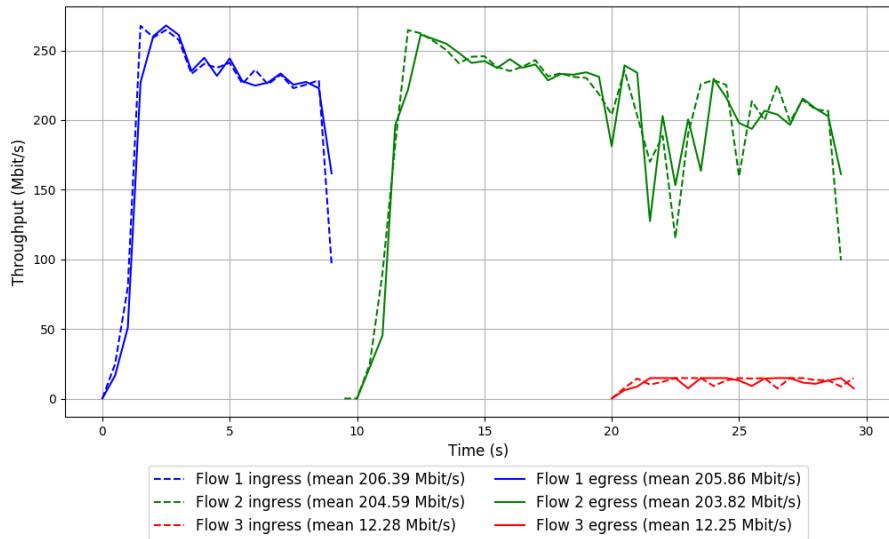
Run 2: Statistics of TaoVA-100x

Start at: 2017-08-12 13:00:13

End at: 2017-08-12 13:00:43

```
# Below is generated by plot.py at 2017-08-12 18:02:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 200.74 Mbit/s
95th percentile per-packet one-way delay: 138.263 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 205.86 Mbit/s
95th percentile per-packet one-way delay: 137.201 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 203.82 Mbit/s
95th percentile per-packet one-way delay: 138.543 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 12.25 Mbit/s
95th percentile per-packet one-way delay: 136.442 ms
Loss rate: 3.06%
```

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



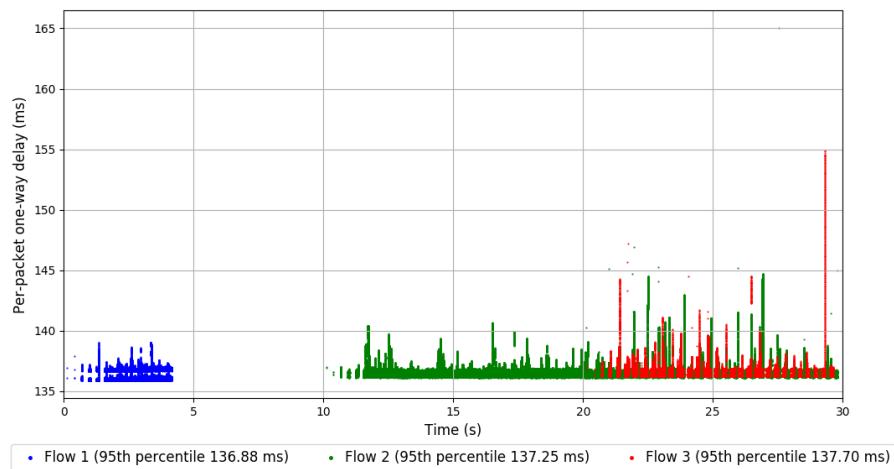
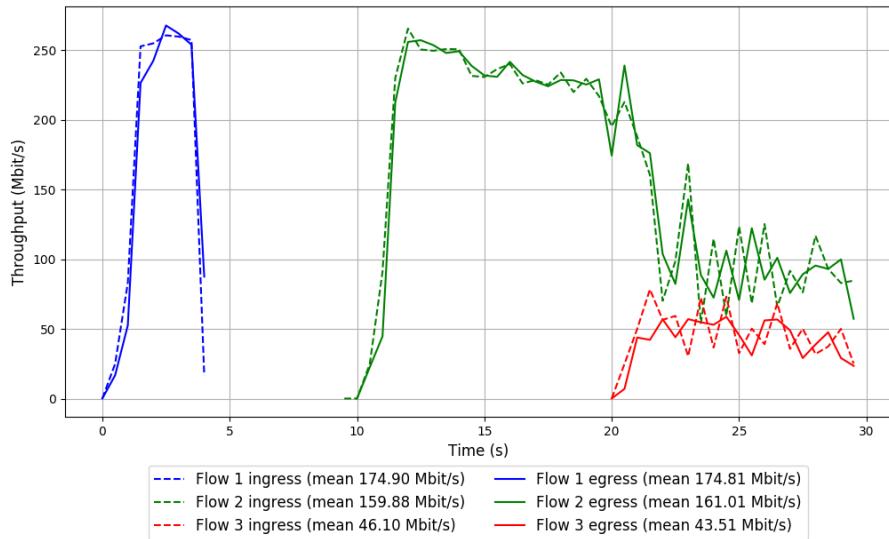
Run 3: Statistics of TaoVA-100x

Start at: 2017-08-12 13:14:11

End at: 2017-08-12 13:14:41

```
# Below is generated by plot.py at 2017-08-12 18:03:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 144.46 Mbit/s
95th percentile per-packet one-way delay: 137.198 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 174.81 Mbit/s
95th percentile per-packet one-way delay: 136.883 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 161.01 Mbit/s
95th percentile per-packet one-way delay: 137.254 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 43.51 Mbit/s
95th percentile per-packet one-way delay: 137.704 ms
Loss rate: 8.66%
```

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



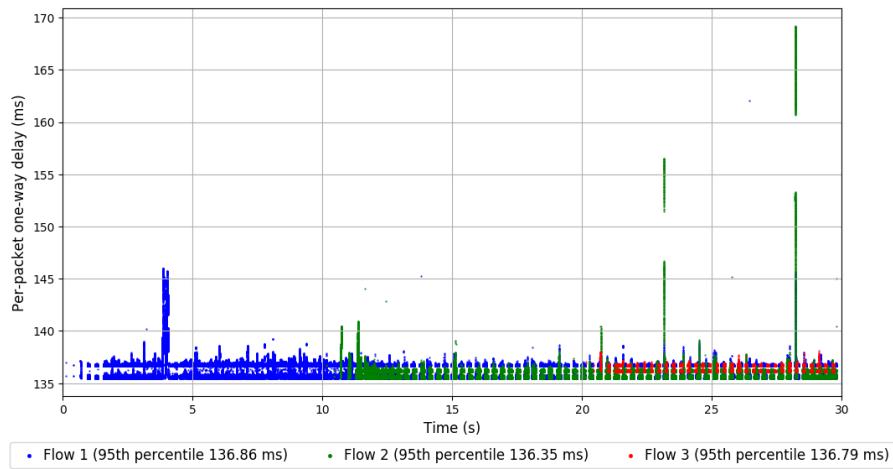
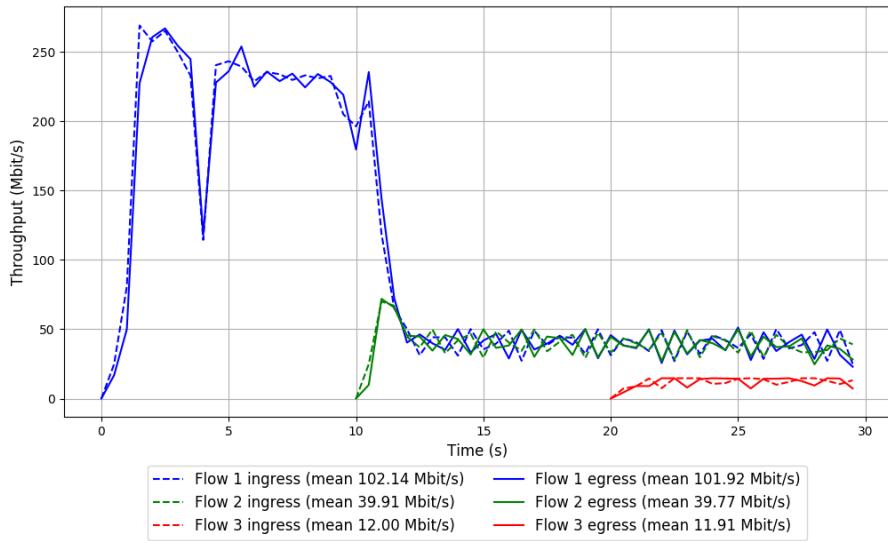
Run 4: Statistics of TaoVA-100x

Start at: 2017-08-12 13:28:01

End at: 2017-08-12 13:28:31

```
# Below is generated by plot.py at 2017-08-12 18:03:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 132.08 Mbit/s
95th percentile per-packet one-way delay: 136.834 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 101.92 Mbit/s
95th percentile per-packet one-way delay: 136.858 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 39.77 Mbit/s
95th percentile per-packet one-way delay: 136.351 ms
Loss rate: 1.66%
-- Flow 3:
Average throughput: 11.91 Mbit/s
95th percentile per-packet one-way delay: 136.788 ms
Loss rate: 3.51%
```

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



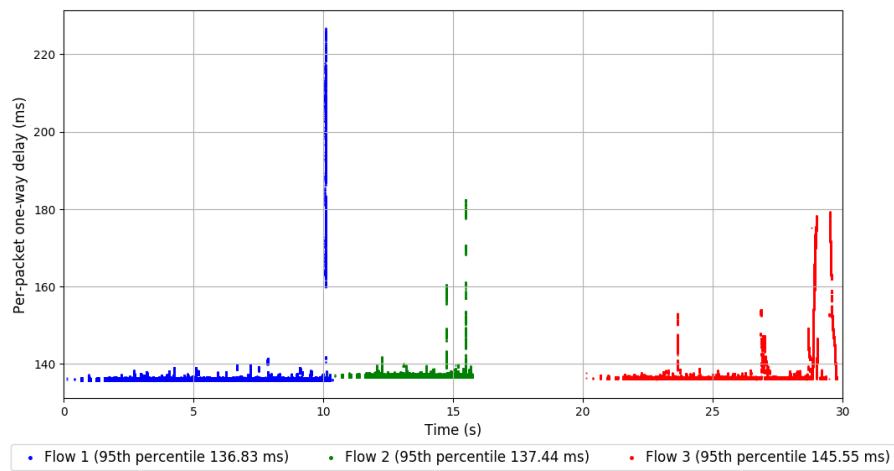
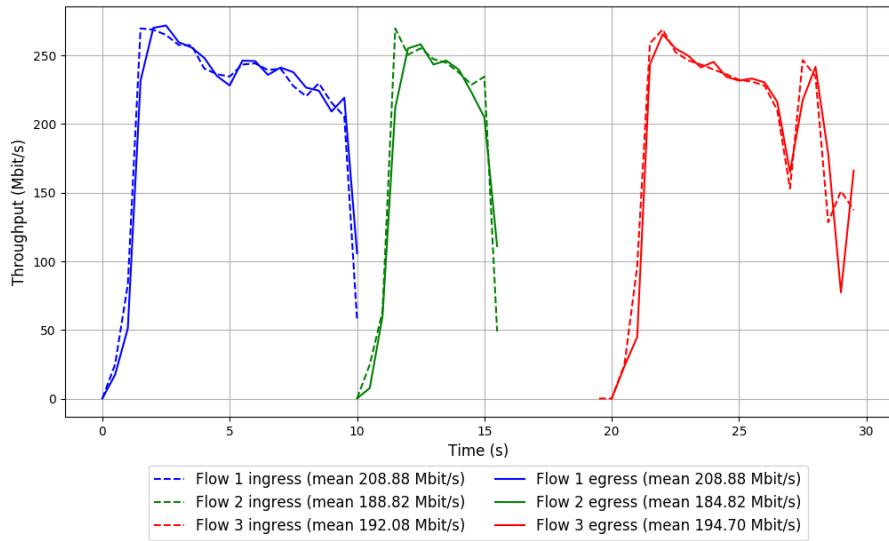
Run 5: Statistics of TaoVA-100x

Start at: 2017-08-12 13:42:30

End at: 2017-08-12 13:43:00

```
# Below is generated by plot.py at 2017-08-12 18:04:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 170.12 Mbit/s
95th percentile per-packet one-way delay: 137.965 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 208.88 Mbit/s
95th percentile per-packet one-way delay: 136.826 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 184.82 Mbit/s
95th percentile per-packet one-way delay: 137.436 ms
Loss rate: 2.11%
-- Flow 3:
Average throughput: 194.70 Mbit/s
95th percentile per-packet one-way delay: 145.553 ms
Loss rate: 1.55%
```

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



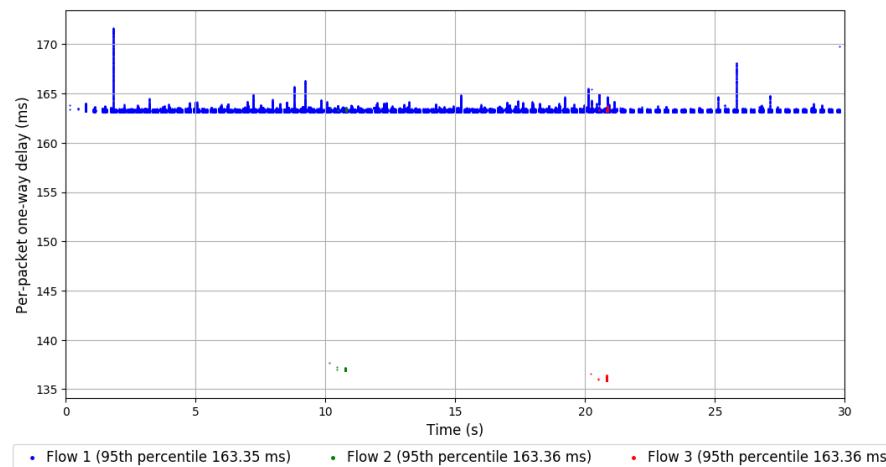
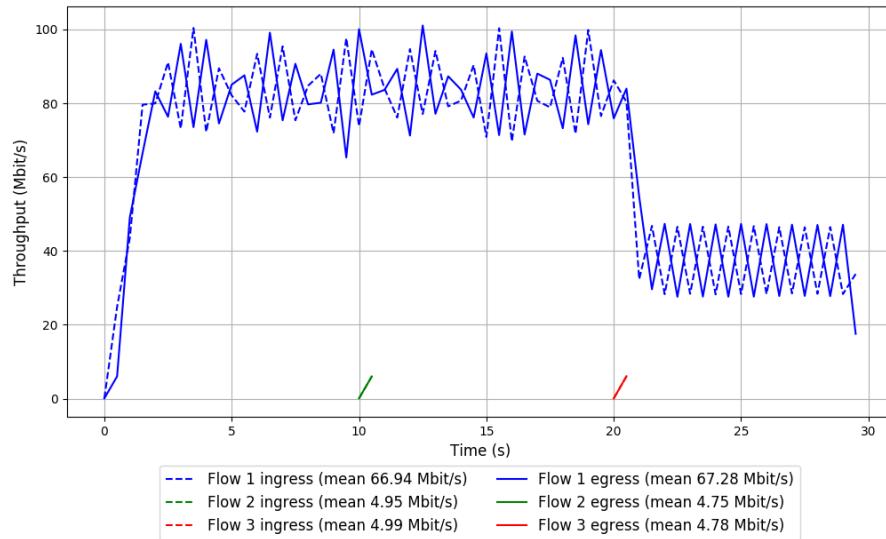
Run 6: Statistics of TaoVA-100x

Start at: 2017-08-12 13:56:06

End at: 2017-08-12 13:56:37

```
# Below is generated by plot.py at 2017-08-12 18:04:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 67.49 Mbit/s
95th percentile per-packet one-way delay: 163.351 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 67.28 Mbit/s
95th percentile per-packet one-way delay: 163.351 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 4.75 Mbit/s
95th percentile per-packet one-way delay: 163.364 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.78 Mbit/s
95th percentile per-packet one-way delay: 163.357 ms
Loss rate: 0.00%
```

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



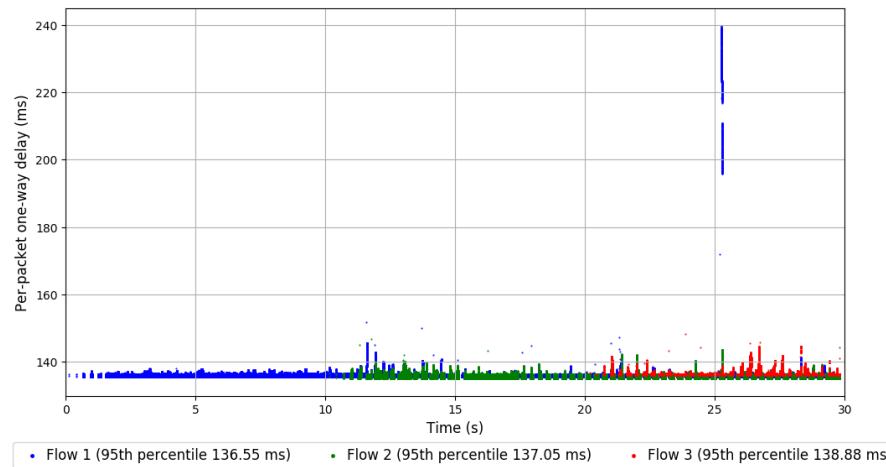
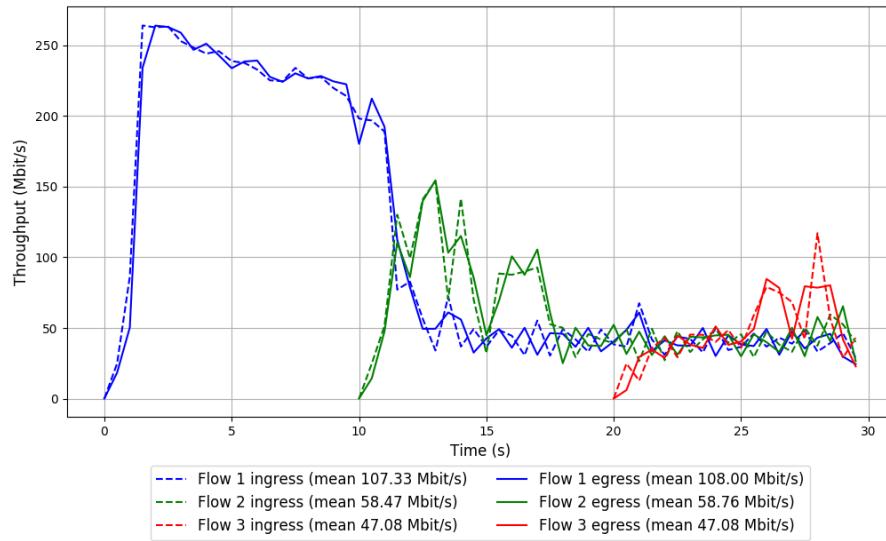
Run 7: Statistics of TaoVA-100x

Start at: 2017-08-12 14:09:16

End at: 2017-08-12 14:09:46

```
# Below is generated by plot.py at 2017-08-12 18:04:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 161.69 Mbit/s
95th percentile per-packet one-way delay: 136.892 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 108.00 Mbit/s
95th percentile per-packet one-way delay: 136.546 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 58.76 Mbit/s
95th percentile per-packet one-way delay: 137.047 ms
Loss rate: 0.86%
-- Flow 3:
Average throughput: 47.08 Mbit/s
95th percentile per-packet one-way delay: 138.879 ms
Loss rate: 2.69%
```

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



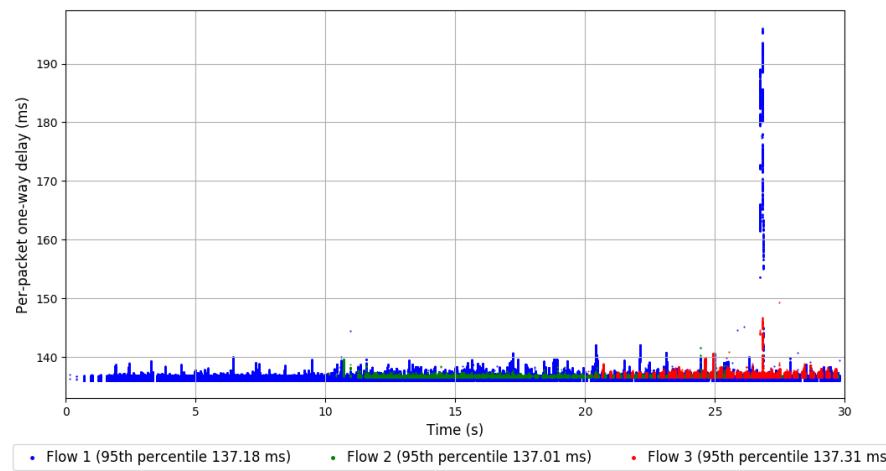
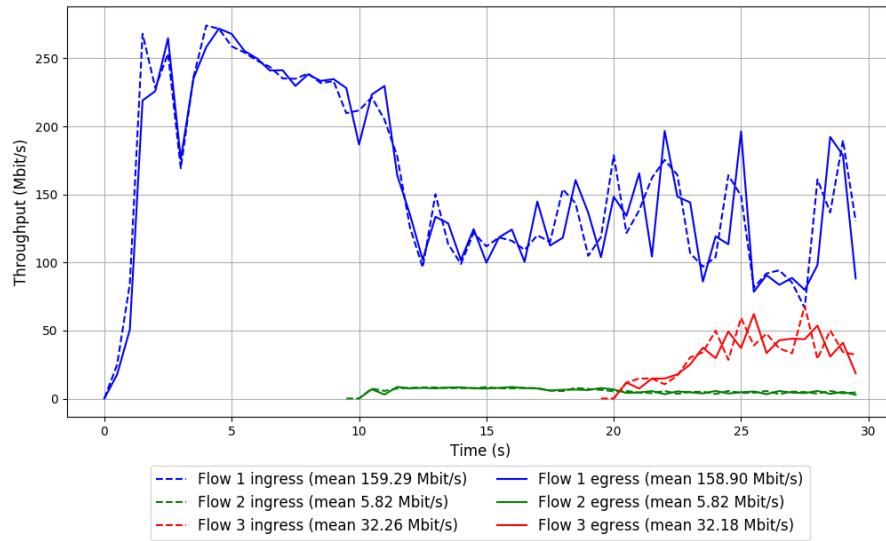
Run 8: Statistics of TaoVA-100x

Start at: 2017-08-12 14:23:09

End at: 2017-08-12 14:23:39

```
# Below is generated by plot.py at 2017-08-12 18:05:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 173.12 Mbit/s
95th percentile per-packet one-way delay: 137.207 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 158.90 Mbit/s
95th percentile per-packet one-way delay: 137.175 ms
Loss rate: 1.14%
-- Flow 2:
Average throughput: 5.82 Mbit/s
95th percentile per-packet one-way delay: 137.014 ms
Loss rate: 1.48%
-- Flow 3:
Average throughput: 32.18 Mbit/s
95th percentile per-packet one-way delay: 137.313 ms
Loss rate: 4.05%
```

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



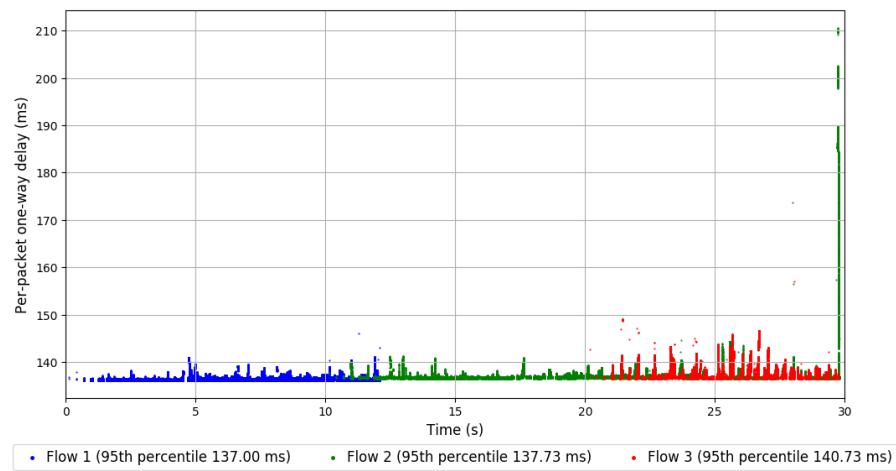
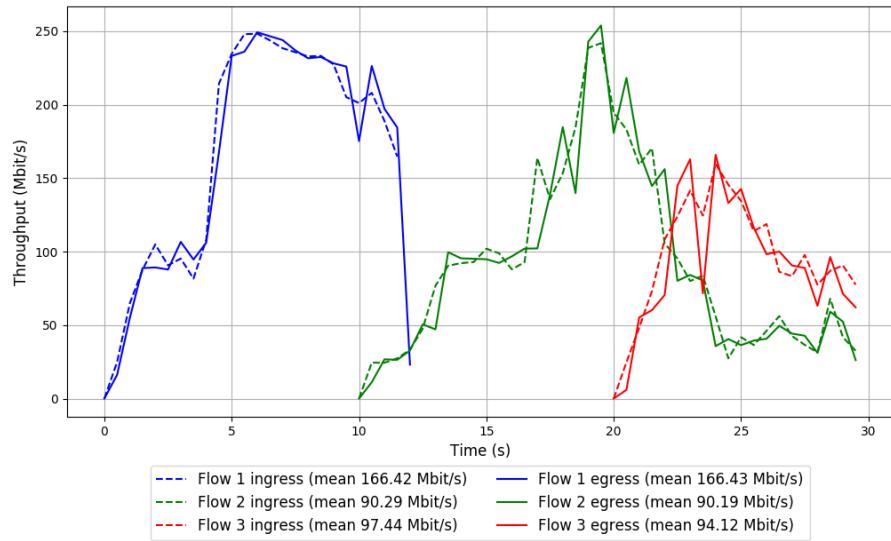
Run 9: Statistics of TaoVA-100x

Start at: 2017-08-12 14:37:09

End at: 2017-08-12 14:37:39

```
# Below is generated by plot.py at 2017-08-12 18:05:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 157.24 Mbit/s
95th percentile per-packet one-way delay: 137.985 ms
Loss rate: 1.80%
-- Flow 1:
Average throughput: 166.43 Mbit/s
95th percentile per-packet one-way delay: 136.995 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 90.19 Mbit/s
95th percentile per-packet one-way delay: 137.726 ms
Loss rate: 1.49%
-- Flow 3:
Average throughput: 94.12 Mbit/s
95th percentile per-packet one-way delay: 140.728 ms
Loss rate: 6.11%
```

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



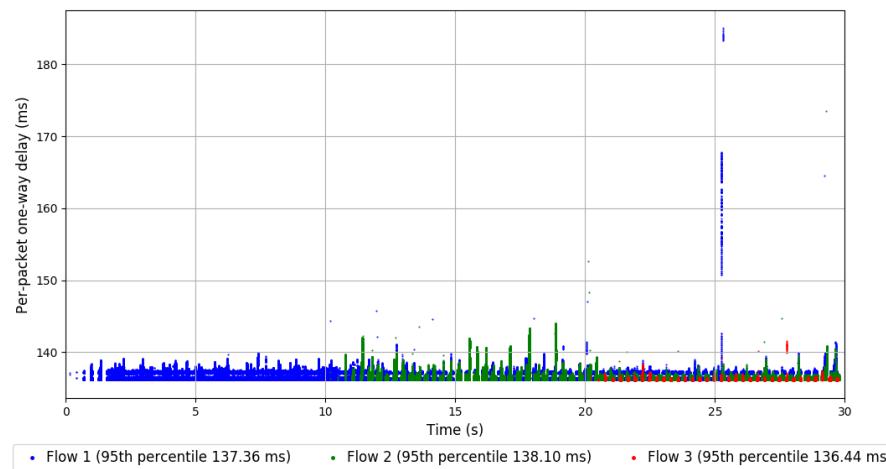
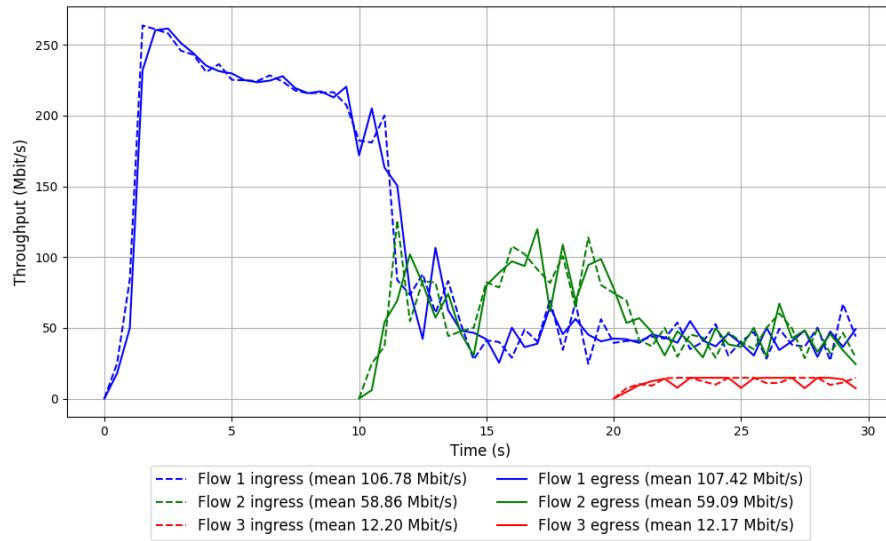
Run 10: Statistics of TaoVA-100x

Start at: 2017-08-12 14:51:17

End at: 2017-08-12 14:51:48

```
# Below is generated by plot.py at 2017-08-12 18:06:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 150.08 Mbit/s
95th percentile per-packet one-way delay: 137.410 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 107.42 Mbit/s
95th percentile per-packet one-way delay: 137.364 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 59.09 Mbit/s
95th percentile per-packet one-way delay: 138.103 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 12.17 Mbit/s
95th percentile per-packet one-way delay: 136.435 ms
Loss rate: 3.09%
```

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

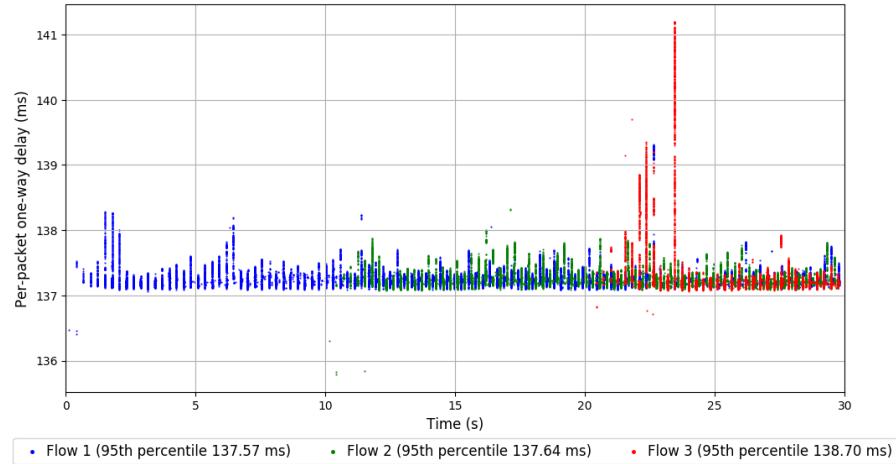
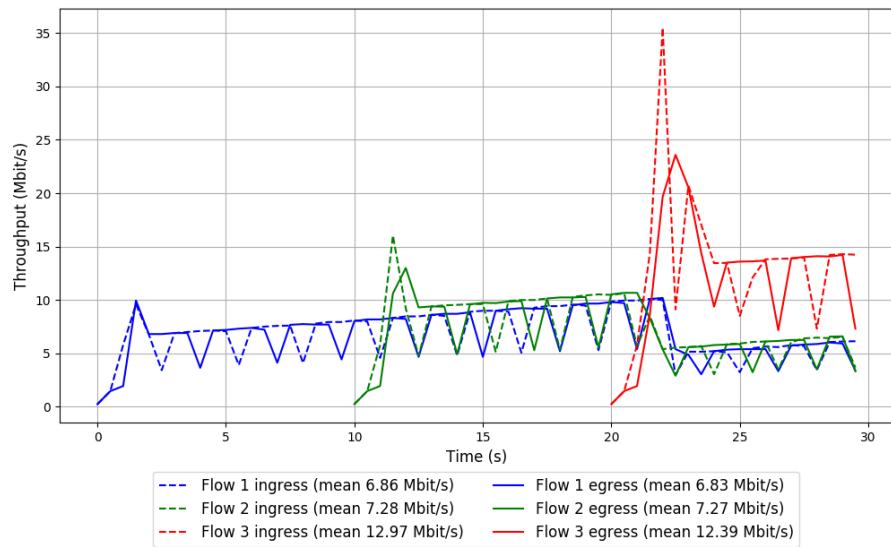


```
Run 1: Statistics of TCP Vegas

Start at: 2017-08-12 12:36:04
End at: 2017-08-12 12:36:34

# Below is generated by plot.py at 2017-08-12 18:06:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.66 Mbit/s
95th percentile per-packet one-way delay: 137.711 ms
Loss rate: 2.95%
-- Flow 1:
Average throughput: 6.83 Mbit/s
95th percentile per-packet one-way delay: 137.566 ms
Loss rate: 1.32%
-- Flow 2:
Average throughput: 7.27 Mbit/s
95th percentile per-packet one-way delay: 137.644 ms
Loss rate: 1.57%
-- Flow 3:
Average throughput: 12.39 Mbit/s
95th percentile per-packet one-way delay: 138.704 ms
Loss rate: 7.10%
```

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



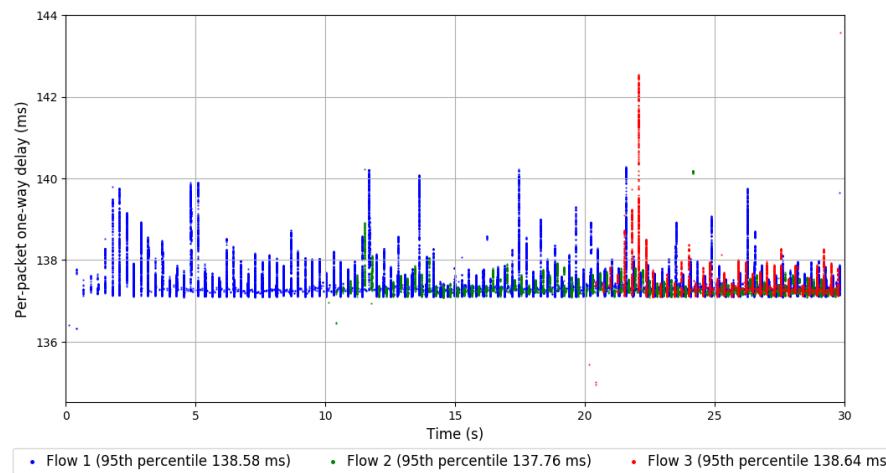
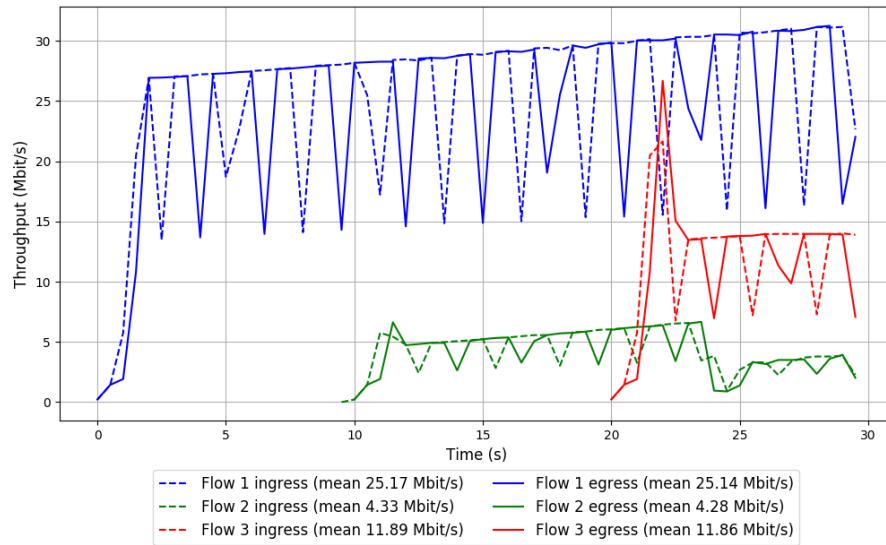
Run 2: Statistics of TCP Vegas

Start at: 2017-08-12 12:50:12

End at: 2017-08-12 12:50:42

```
# Below is generated by plot.py at 2017-08-12 18:06:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 31.81 Mbit/s
95th percentile per-packet one-way delay: 138.505 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 25.14 Mbit/s
95th percentile per-packet one-way delay: 138.579 ms
Loss rate: 1.04%
-- Flow 2:
Average throughput: 4.28 Mbit/s
95th percentile per-packet one-way delay: 137.756 ms
Loss rate: 3.02%
-- Flow 3:
Average throughput: 11.86 Mbit/s
95th percentile per-packet one-way delay: 138.640 ms
Loss rate: 3.00%
```

Run 2: Report of TCP Vegas — Data Link



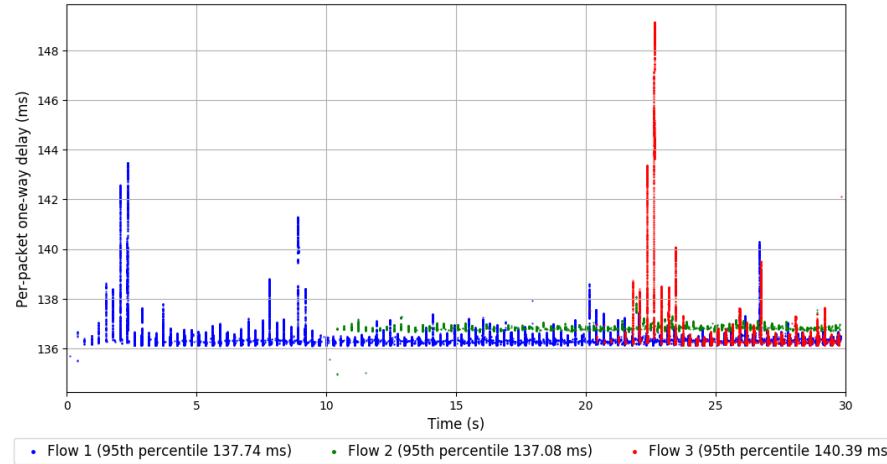
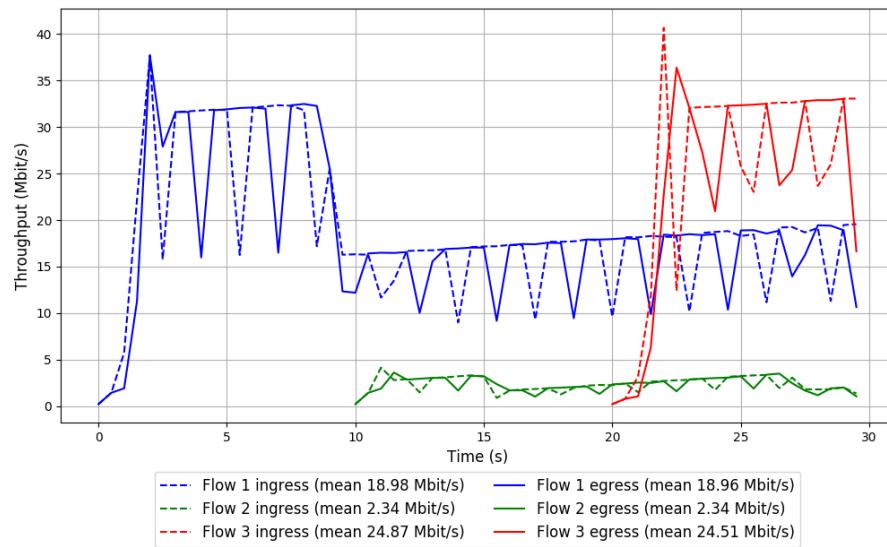
Run 3: Statistics of TCP Vegas

Start at: 2017-08-12 13:04:00

End at: 2017-08-12 13:04:30

```
# Below is generated by plot.py at 2017-08-12 18:06:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 28.47 Mbit/s
95th percentile per-packet one-way delay: 138.344 ms
Loss rate: 1.90%
-- Flow 1:
Average throughput: 18.96 Mbit/s
95th percentile per-packet one-way delay: 137.742 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 137.078 ms
Loss rate: 1.85%
-- Flow 3:
Average throughput: 24.51 Mbit/s
95th percentile per-packet one-way delay: 140.390 ms
Loss rate: 3.71%
```

Run 3: Report of TCP Vegas — Data Link



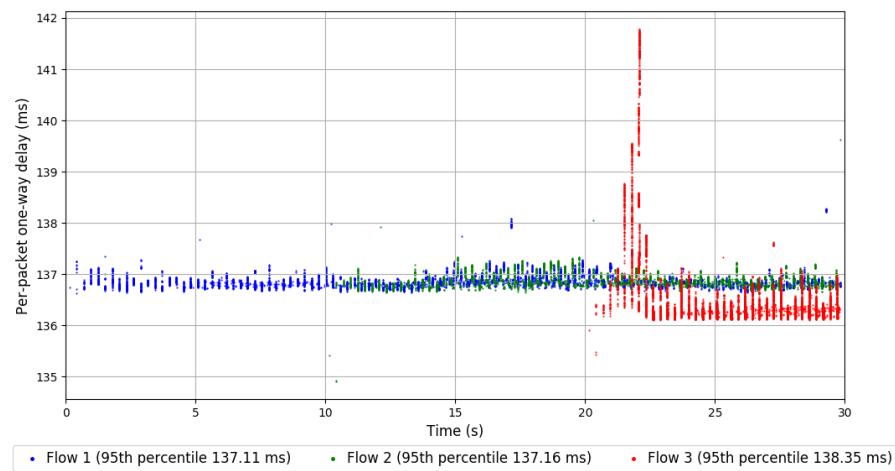
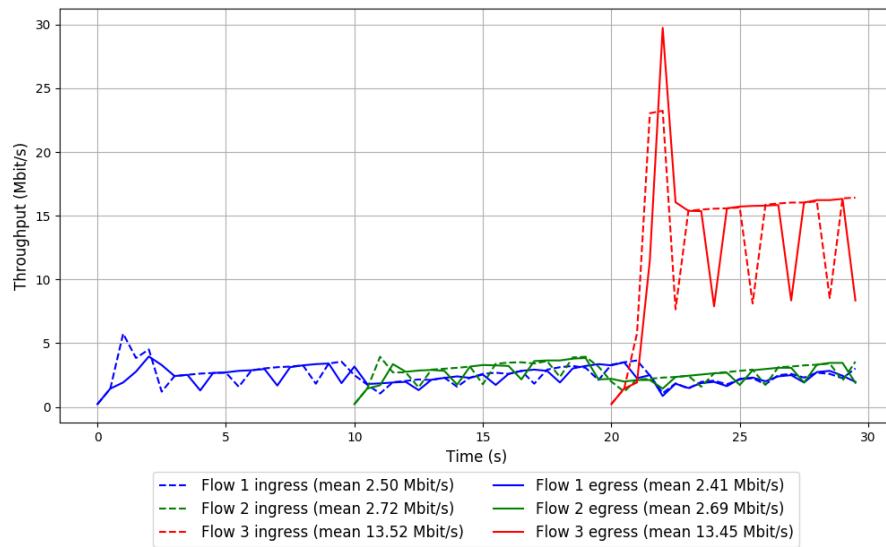
Run 4: Statistics of TCP Vegas

Start at: 2017-08-12 13:17:52

End at: 2017-08-12 13:18:22

```
# Below is generated by plot.py at 2017-08-12 18:06:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.57 Mbit/s
95th percentile per-packet one-way delay: 137.386 ms
Loss rate: 3.32%
-- Flow 1:
Average throughput: 2.41 Mbit/s
95th percentile per-packet one-way delay: 137.109 ms
Loss rate: 4.33%
-- Flow 2:
Average throughput: 2.69 Mbit/s
95th percentile per-packet one-way delay: 137.163 ms
Loss rate: 2.13%
-- Flow 3:
Average throughput: 13.45 Mbit/s
95th percentile per-packet one-way delay: 138.354 ms
Loss rate: 3.25%
```

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



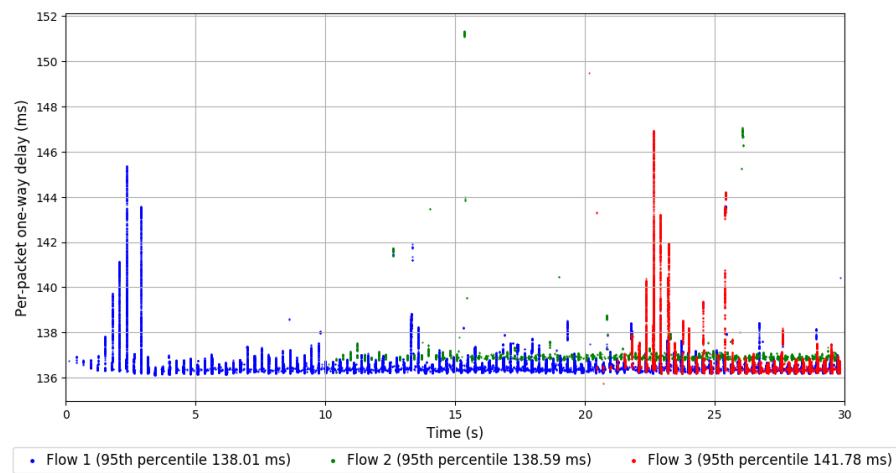
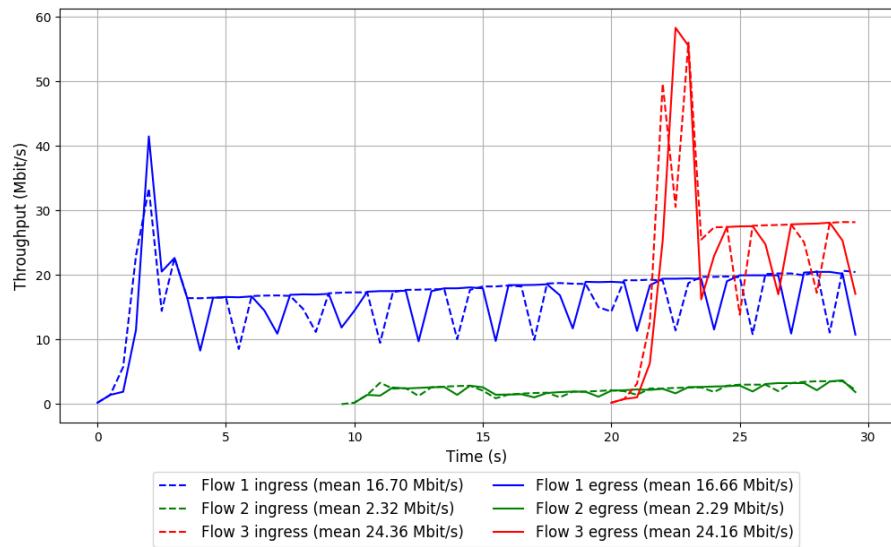
Run 5: Statistics of TCP Vegas

Start at: 2017-08-12 13:31:43

End at: 2017-08-12 13:32:13

```
# Below is generated by plot.py at 2017-08-12 18:06:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 26.01 Mbit/s
95th percentile per-packet one-way delay: 139.264 ms
Loss rate: 2.16%
-- Flow 1:
Average throughput: 16.66 Mbit/s
95th percentile per-packet one-way delay: 138.012 ms
Loss rate: 1.16%
-- Flow 2:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 138.594 ms
Loss rate: 3.04%
-- Flow 3:
Average throughput: 24.16 Mbit/s
95th percentile per-packet one-way delay: 141.779 ms
Loss rate: 4.05%
```

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



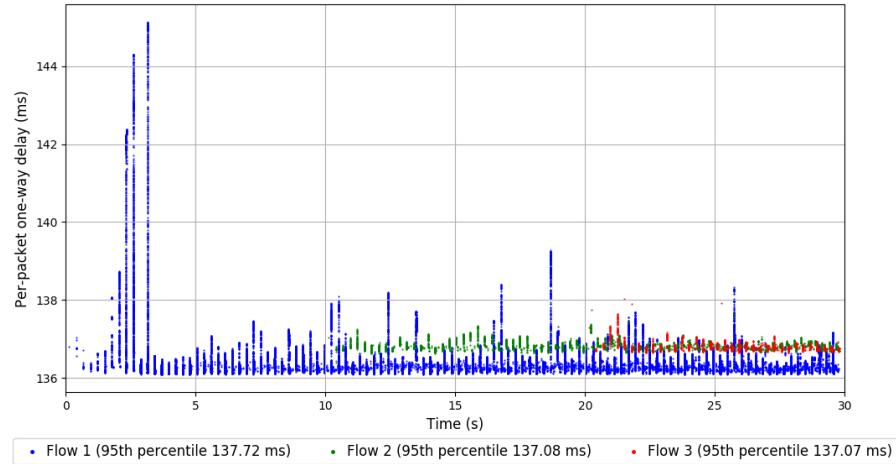
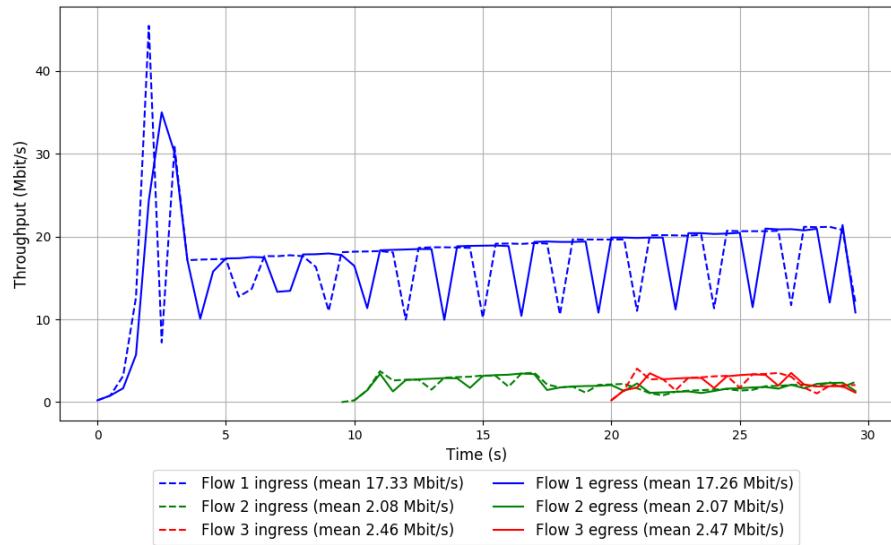
Run 6: Statistics of TCP Vegas

Start at: 2017-08-12 13:46:13

End at: 2017-08-12 13:46:43

```
# Below is generated by plot.py at 2017-08-12 18:06:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.42 Mbit/s
95th percentile per-packet one-way delay: 137.586 ms
Loss rate: 1.39%
-- Flow 1:
Average throughput: 17.26 Mbit/s
95th percentile per-packet one-way delay: 137.715 ms
Loss rate: 1.27%
-- Flow 2:
Average throughput: 2.07 Mbit/s
95th percentile per-packet one-way delay: 137.078 ms
Loss rate: 2.03%
-- Flow 3:
Average throughput: 2.47 Mbit/s
95th percentile per-packet one-way delay: 137.068 ms
Loss rate: 2.70%
```

Run 6: Report of TCP Vegas — Data Link



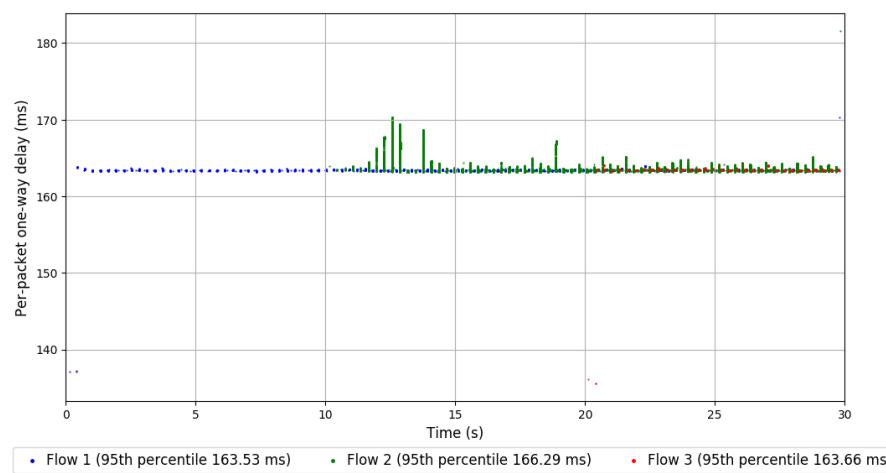
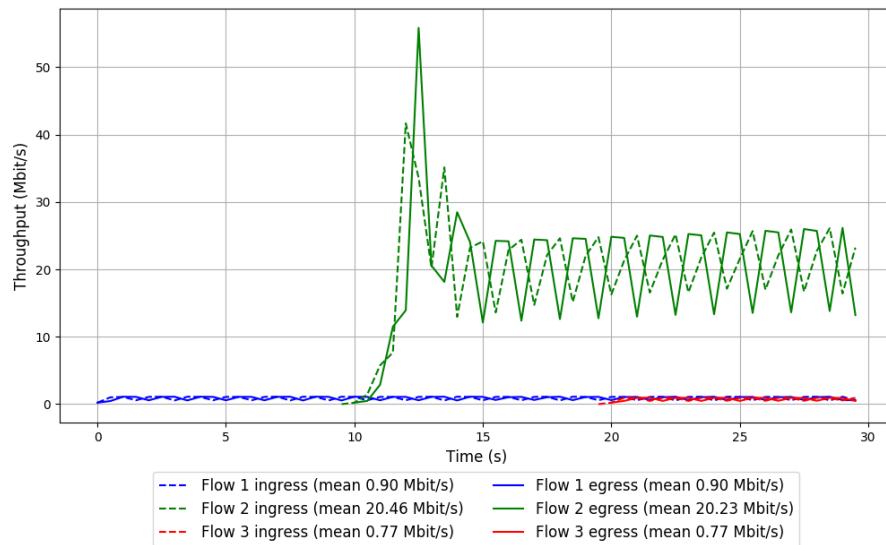
Run 7: Statistics of TCP Vegas

Start at: 2017-08-12 13:59:38

End at: 2017-08-12 14:00:08

```
# Below is generated by plot.py at 2017-08-12 18:06:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.55 Mbit/s
95th percentile per-packet one-way delay: 166.050 ms
Loss rate: 2.26%
-- Flow 1:
Average throughput: 0.90 Mbit/s
95th percentile per-packet one-way delay: 163.530 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 20.23 Mbit/s
95th percentile per-packet one-way delay: 166.290 ms
Loss rate: 2.32%
-- Flow 3:
Average throughput: 0.77 Mbit/s
95th percentile per-packet one-way delay: 163.663 ms
Loss rate: 3.13%
```

### Run 7: Report of TCP Vegas — Data Link



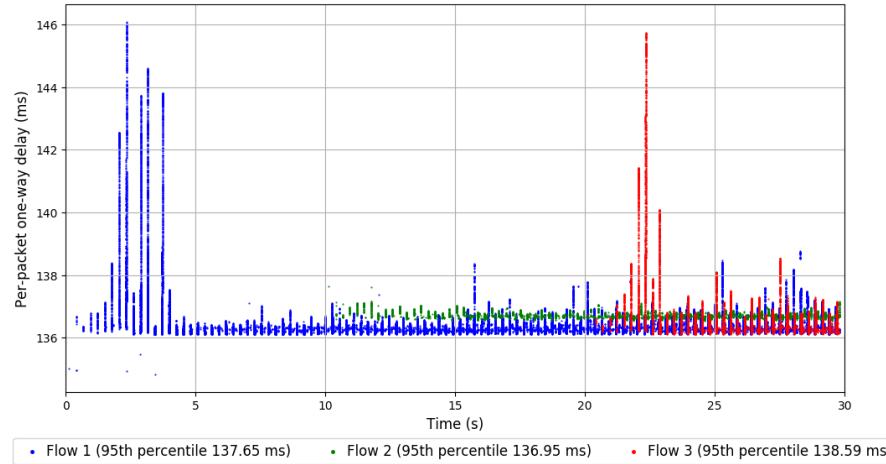
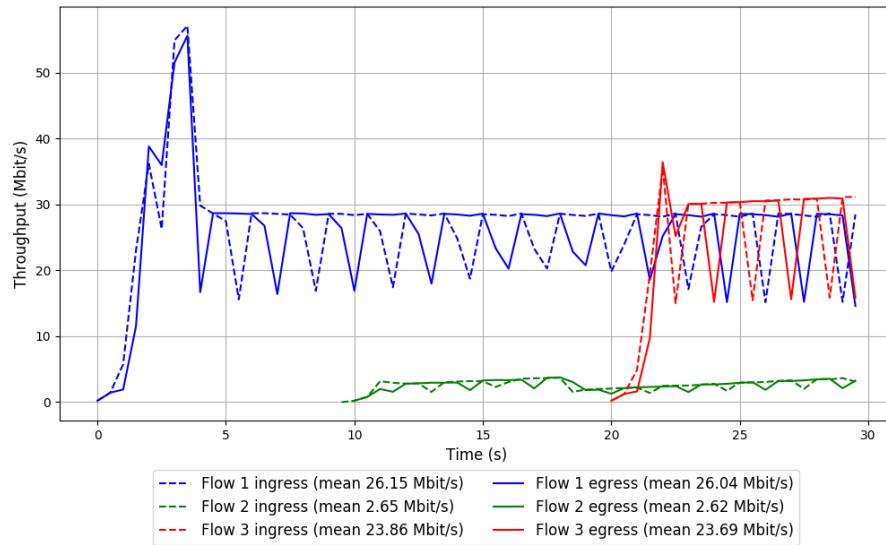
Run 8: Statistics of TCP Vegas

Start at: 2017-08-12 14:13:06

End at: 2017-08-12 14:13:36

```
# Below is generated by plot.py at 2017-08-12 18:06:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 35.48 Mbit/s
95th percentile per-packet one-way delay: 137.858 ms
Loss rate: 1.93%
-- Flow 1:
Average throughput: 26.04 Mbit/s
95th percentile per-packet one-way delay: 137.652 ms
Loss rate: 1.34%
-- Flow 2:
Average throughput: 2.62 Mbit/s
95th percentile per-packet one-way delay: 136.947 ms
Loss rate: 2.70%
-- Flow 3:
Average throughput: 23.69 Mbit/s
95th percentile per-packet one-way delay: 138.589 ms
Loss rate: 3.71%
```

Run 8: Report of TCP Vegas — Data Link



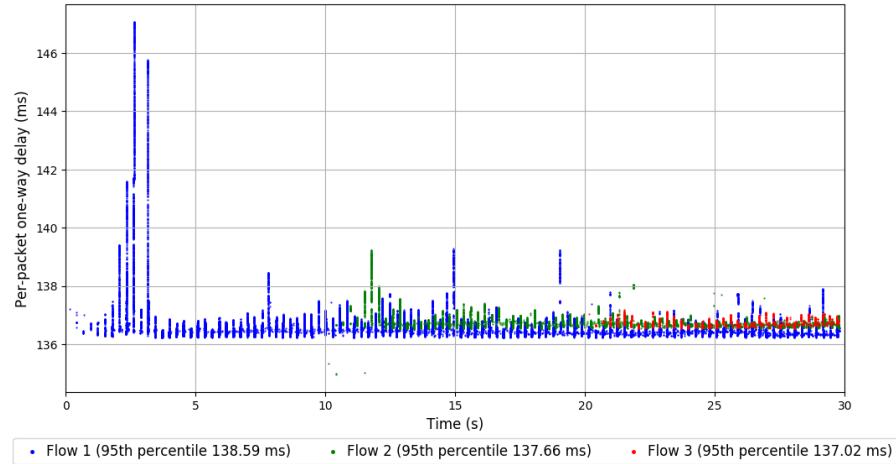
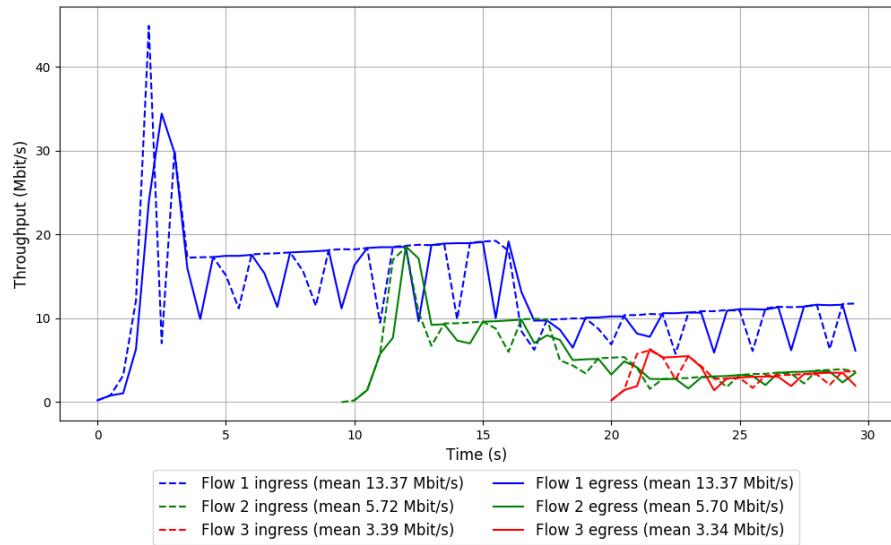
Run 9: Statistics of TCP Vegas

Start at: 2017-08-12 14:26:57

End at: 2017-08-12 14:27:27

```
# Below is generated by plot.py at 2017-08-12 18:06:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.23 Mbit/s
95th percentile per-packet one-way delay: 138.146 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 13.37 Mbit/s
95th percentile per-packet one-way delay: 138.592 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 5.70 Mbit/s
95th percentile per-packet one-way delay: 137.656 ms
Loss rate: 1.64%
-- Flow 3:
Average throughput: 3.34 Mbit/s
95th percentile per-packet one-way delay: 137.020 ms
Loss rate: 4.49%
```

Run 9: Report of TCP Vegas — Data Link



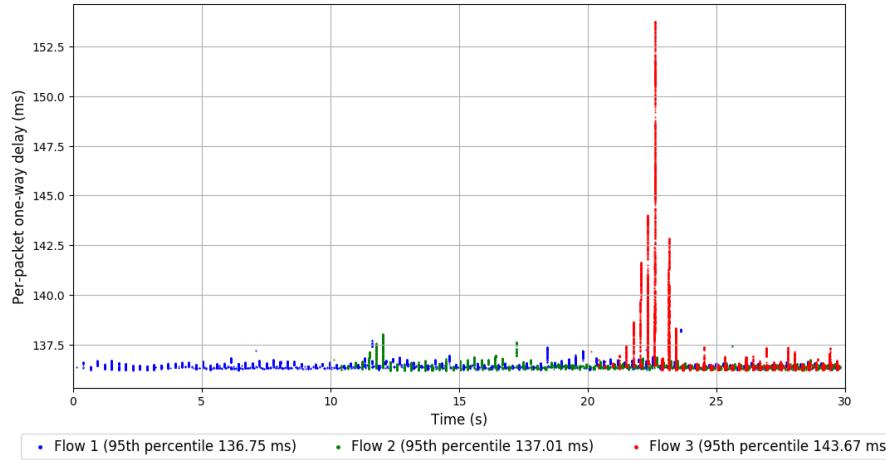
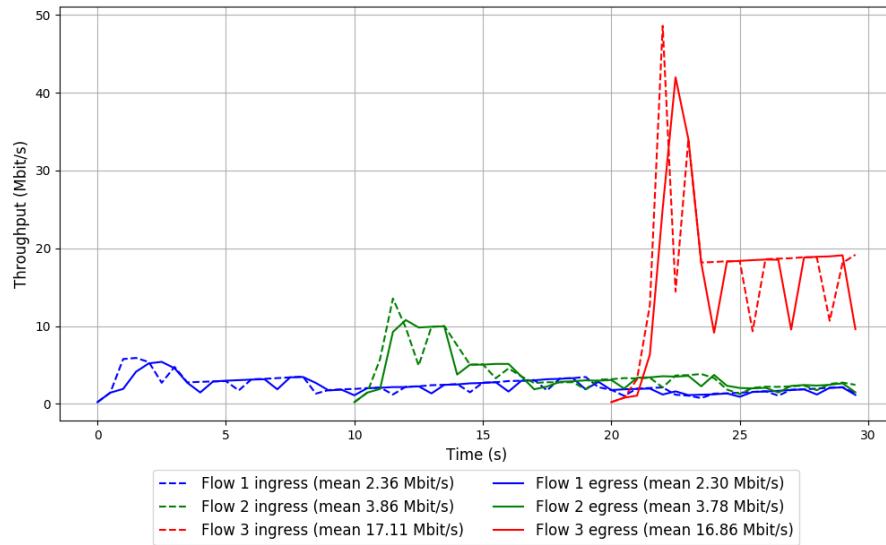
Run 10: Statistics of TCP Vegas

Start at: 2017-08-12 14:41:00

End at: 2017-08-12 14:41:30

```
# Below is generated by plot.py at 2017-08-12 18:06:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 10.27 Mbit/s
95th percentile per-packet one-way delay: 140.419 ms
Loss rate: 3.81%
-- Flow 1:
Average throughput: 2.30 Mbit/s
95th percentile per-packet one-way delay: 136.746 ms
Loss rate: 3.43%
-- Flow 2:
Average throughput: 3.78 Mbit/s
95th percentile per-packet one-way delay: 137.013 ms
Loss rate: 3.41%
-- Flow 3:
Average throughput: 16.86 Mbit/s
95th percentile per-packet one-way delay: 143.670 ms
Loss rate: 4.15%
```

Run 10: Report of TCP Vegas — Data Link



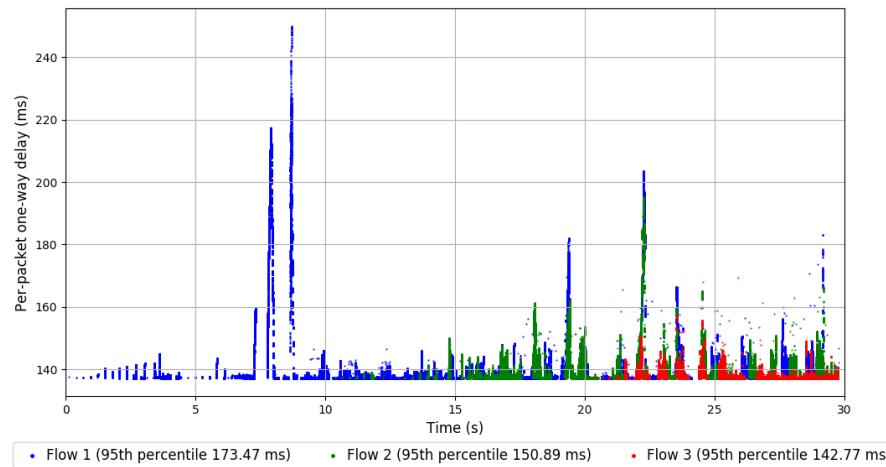
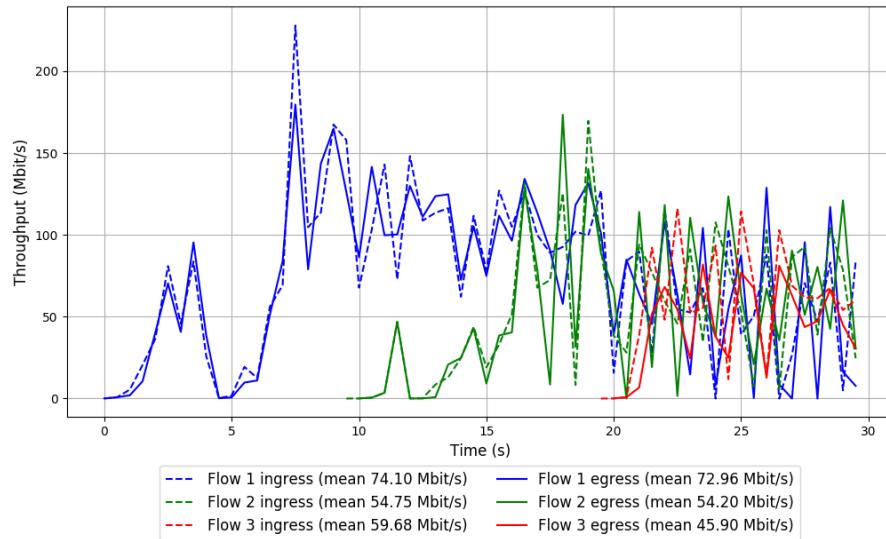
Run 1: Statistics of Verus

Start at: 2017-08-12 12:48:22

End at: 2017-08-12 12:48:52

```
# Below is generated by plot.py at 2017-08-12 18:07:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 123.84 Mbit/s
95th percentile per-packet one-way delay: 158.520 ms
Loss rate: 5.66%
-- Flow 1:
Average throughput: 72.96 Mbit/s
95th percentile per-packet one-way delay: 173.471 ms
Loss rate: 2.44%
-- Flow 2:
Average throughput: 54.20 Mbit/s
95th percentile per-packet one-way delay: 150.887 ms
Loss rate: 1.54%
-- Flow 3:
Average throughput: 45.90 Mbit/s
95th percentile per-packet one-way delay: 142.771 ms
Loss rate: 25.22%
```

Run 1: Report of Verus — Data Link



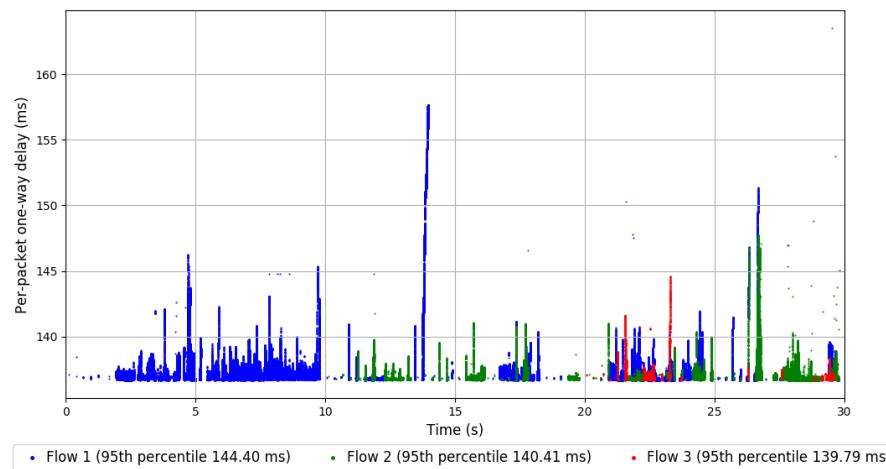
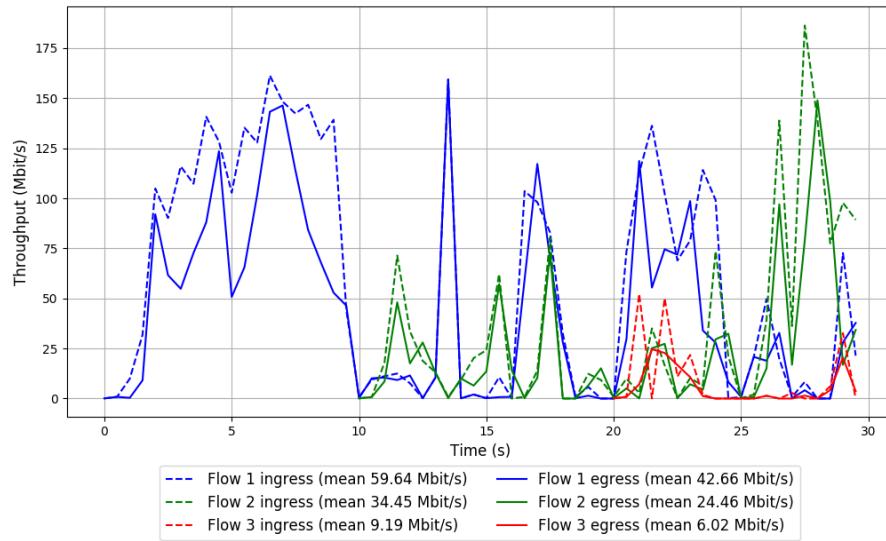
Run 2: Statistics of Verus

Start at: 2017-08-12 13:02:15

End at: 2017-08-12 13:02:45

```
# Below is generated by plot.py at 2017-08-12 18:07:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 60.81 Mbit/s
95th percentile per-packet one-way delay: 142.576 ms
Loss rate: 29.14%
-- Flow 1:
Average throughput: 42.66 Mbit/s
95th percentile per-packet one-way delay: 144.395 ms
Loss rate: 28.46%
-- Flow 2:
Average throughput: 24.46 Mbit/s
95th percentile per-packet one-way delay: 140.408 ms
Loss rate: 29.96%
-- Flow 3:
Average throughput: 6.02 Mbit/s
95th percentile per-packet one-way delay: 139.792 ms
Loss rate: 36.31%
```

## Run 2: Report of Verus — Data Link



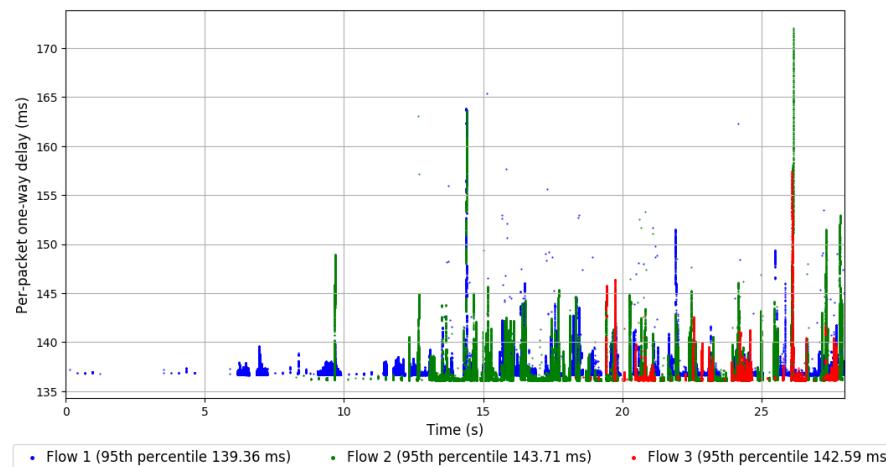
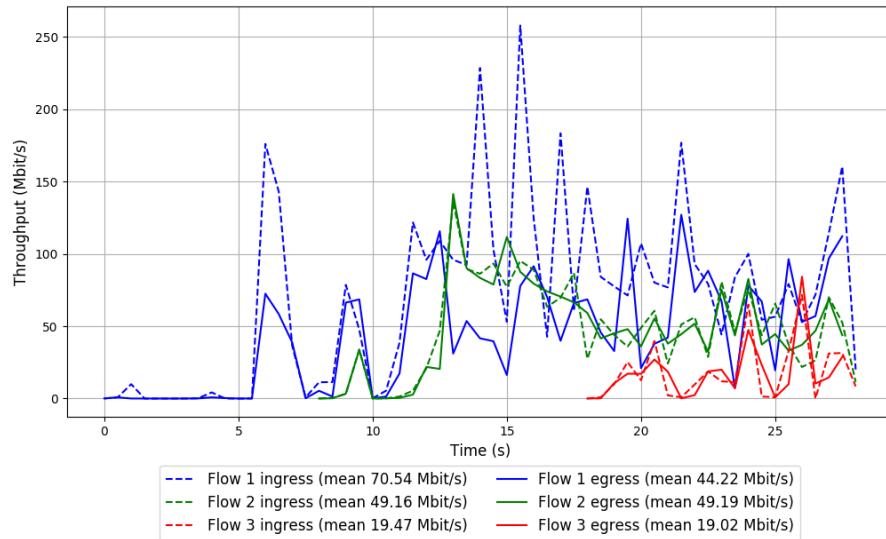
Run 3: Statistics of Verus

Start at: 2017-08-12 13:16:06

End at: 2017-08-12 13:16:36

```
# Below is generated by plot.py at 2017-08-12 18:07:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.36 Mbit/s
95th percentile per-packet one-way delay: 141.787 ms
Loss rate: 24.75%
-- Flow 1:
Average throughput: 44.22 Mbit/s
95th percentile per-packet one-way delay: 139.362 ms
Loss rate: 37.93%
-- Flow 2:
Average throughput: 49.19 Mbit/s
95th percentile per-packet one-way delay: 143.710 ms
Loss rate: 1.58%
-- Flow 3:
Average throughput: 19.02 Mbit/s
95th percentile per-packet one-way delay: 142.591 ms
Loss rate: 7.17%
```

Run 3: Report of Verus — Data Link



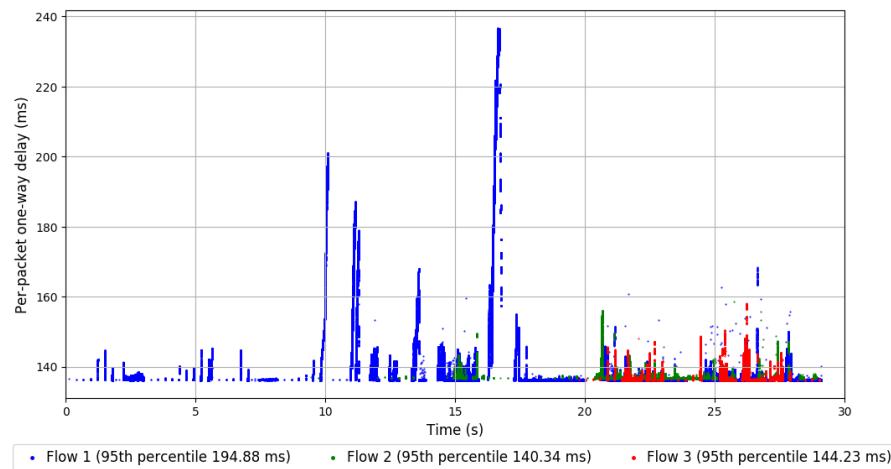
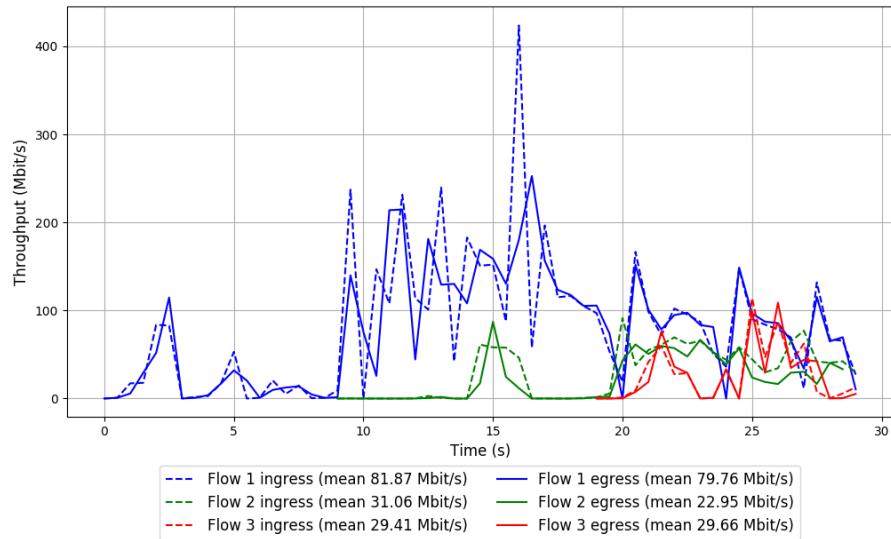
Run 4: Statistics of Verus

Start at: 2017-08-12 13:29:55

End at: 2017-08-12 13:30:25

```
# Below is generated by plot.py at 2017-08-12 18:07:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 104.93 Mbit/s
95th percentile per-packet one-way delay: 184.678 ms
Loss rate: 7.96%
-- Flow 1:
Average throughput: 79.76 Mbit/s
95th percentile per-packet one-way delay: 194.880 ms
Loss rate: 3.49%
-- Flow 2:
Average throughput: 22.95 Mbit/s
95th percentile per-packet one-way delay: 140.344 ms
Loss rate: 27.97%
-- Flow 3:
Average throughput: 29.66 Mbit/s
95th percentile per-packet one-way delay: 144.230 ms
Loss rate: 2.18%
```

Run 4: Report of Verus — Data Link

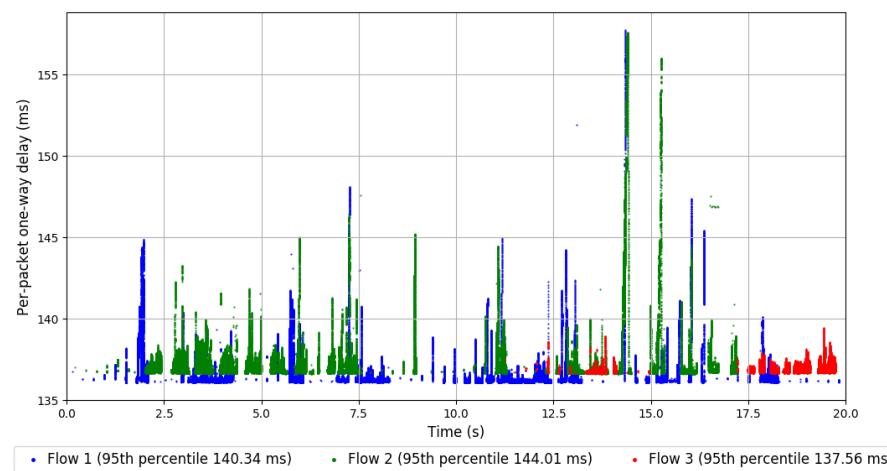
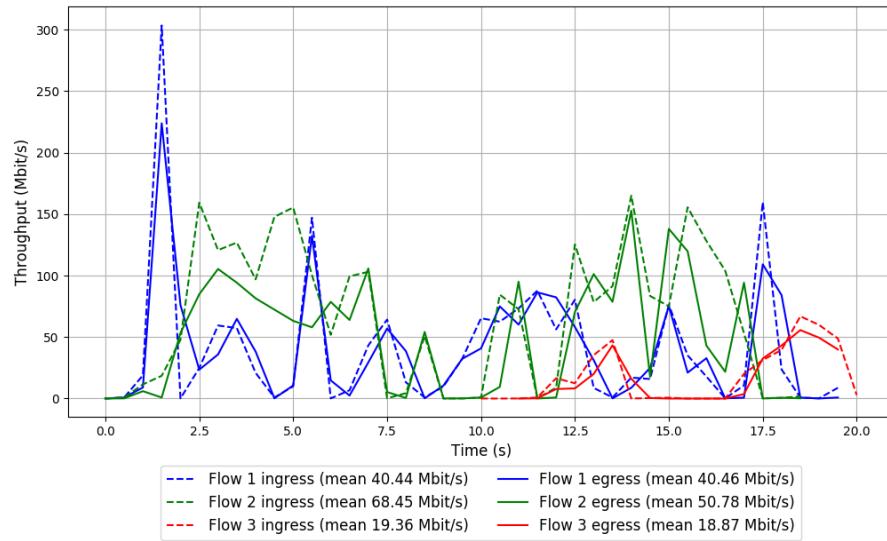


Run 5: Statistics of Verus

Start at: 2017-08-12 13:44:28

End at: 2017-08-12 13:44:58

Run 5: Report of Verus — Data Link



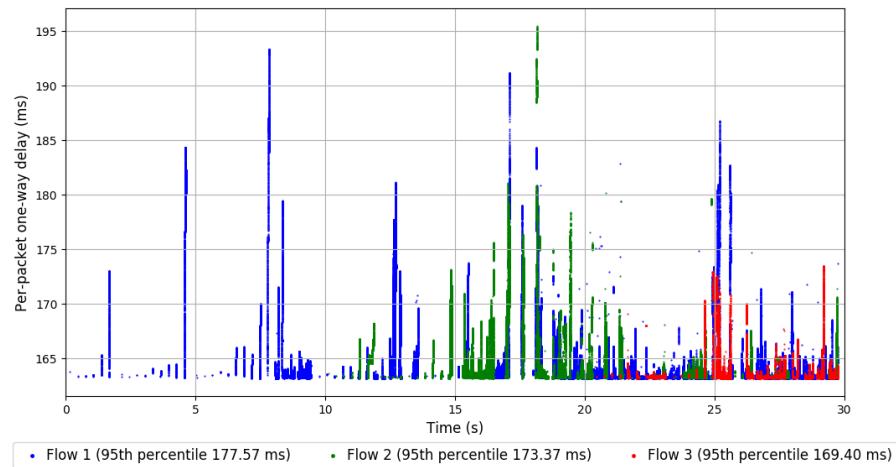
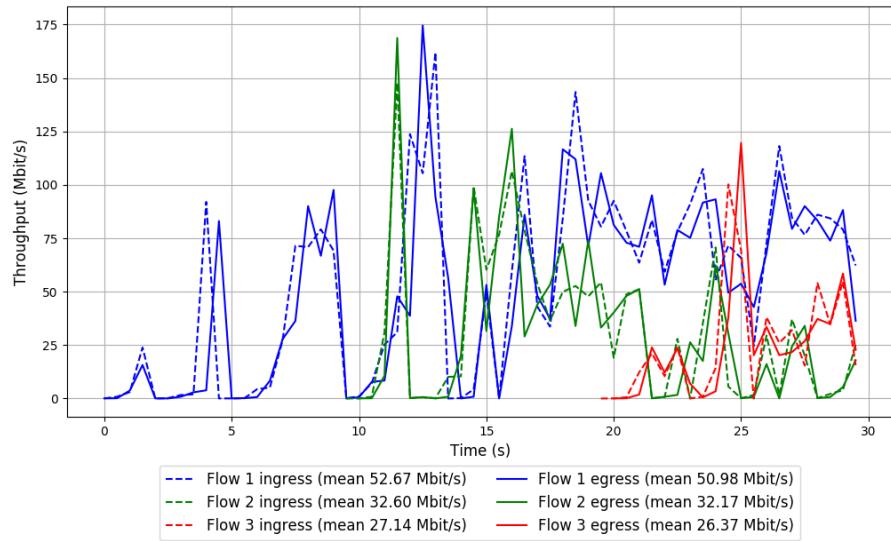
Run 6: Statistics of Verus

Start at: 2017-08-12 13:57:52

End at: 2017-08-12 13:58:22

```
# Below is generated by plot.py at 2017-08-12 18:07:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.84 Mbit/s
95th percentile per-packet one-way delay: 175.518 ms
Loss rate: 3.76%
-- Flow 1:
Average throughput: 50.98 Mbit/s
95th percentile per-packet one-way delay: 177.570 ms
Loss rate: 4.15%
-- Flow 2:
Average throughput: 32.17 Mbit/s
95th percentile per-packet one-way delay: 173.372 ms
Loss rate: 2.94%
-- Flow 3:
Average throughput: 26.37 Mbit/s
95th percentile per-packet one-way delay: 169.404 ms
Loss rate: 3.45%
```

Run 6: Report of Verus — Data Link



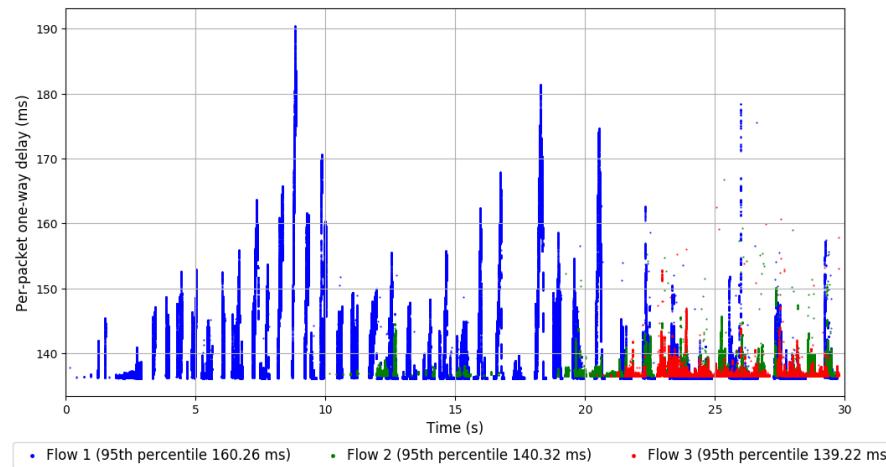
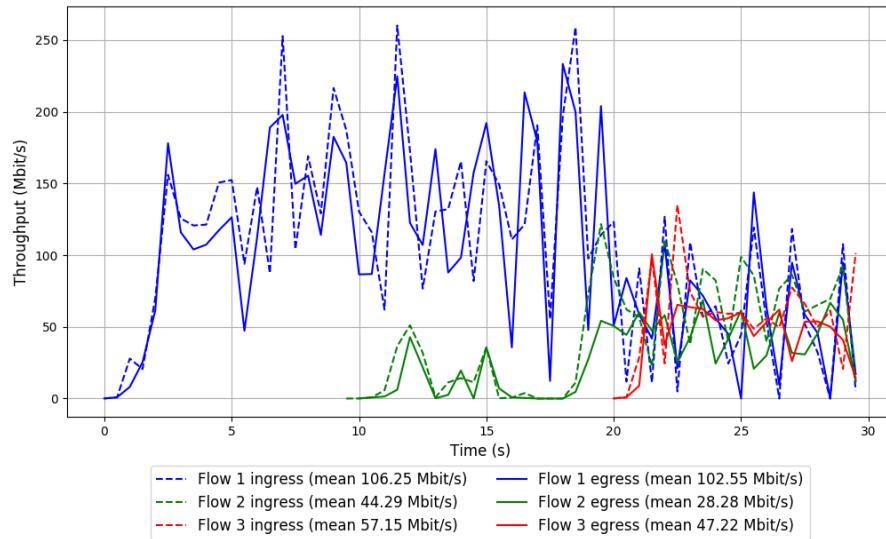
Run 7: Statistics of Verus

Start at: 2017-08-12 14:11:14

End at: 2017-08-12 14:11:44

```
# Below is generated by plot.py at 2017-08-12 18:07:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 136.18 Mbit/s
95th percentile per-packet one-way delay: 158.356 ms
Loss rate: 12.01%
-- Flow 1:
Average throughput: 102.55 Mbit/s
95th percentile per-packet one-way delay: 160.262 ms
Loss rate: 3.49%
-- Flow 2:
Average throughput: 28.28 Mbit/s
95th percentile per-packet one-way delay: 140.324 ms
Loss rate: 37.47%
-- Flow 3:
Average throughput: 47.22 Mbit/s
95th percentile per-packet one-way delay: 139.219 ms
Loss rate: 19.63%
```

Run 7: Report of Verus — Data Link



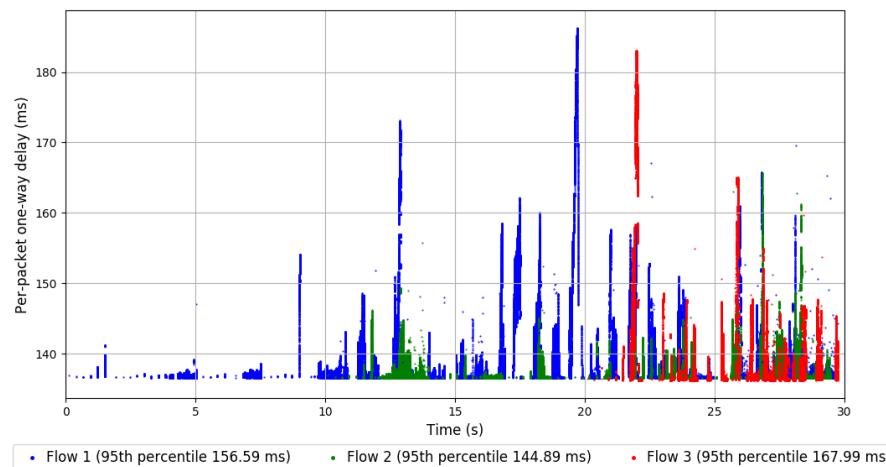
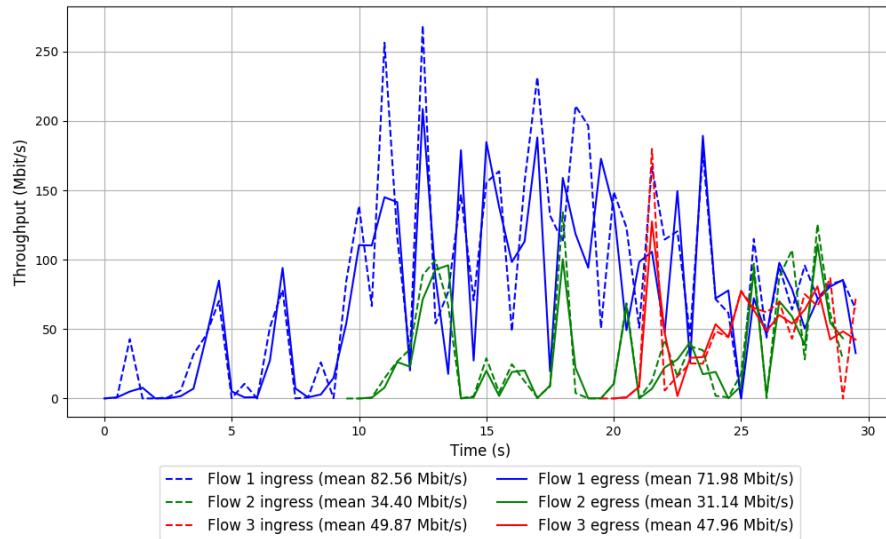
Run 8: Statistics of Verus

Start at: 2017-08-12 14:25:08

End at: 2017-08-12 14:25:38

```
# Below is generated by plot.py at 2017-08-12 18:07:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 107.96 Mbit/s
95th percentile per-packet one-way delay: 156.176 ms
Loss rate: 11.68%
-- Flow 1:
Average throughput: 71.98 Mbit/s
95th percentile per-packet one-way delay: 156.595 ms
Loss rate: 13.62%
-- Flow 2:
Average throughput: 31.14 Mbit/s
95th percentile per-packet one-way delay: 144.894 ms
Loss rate: 9.47%
-- Flow 3:
Average throughput: 47.96 Mbit/s
95th percentile per-packet one-way delay: 167.991 ms
Loss rate: 4.84%
```

Run 8: Report of Verus — Data Link



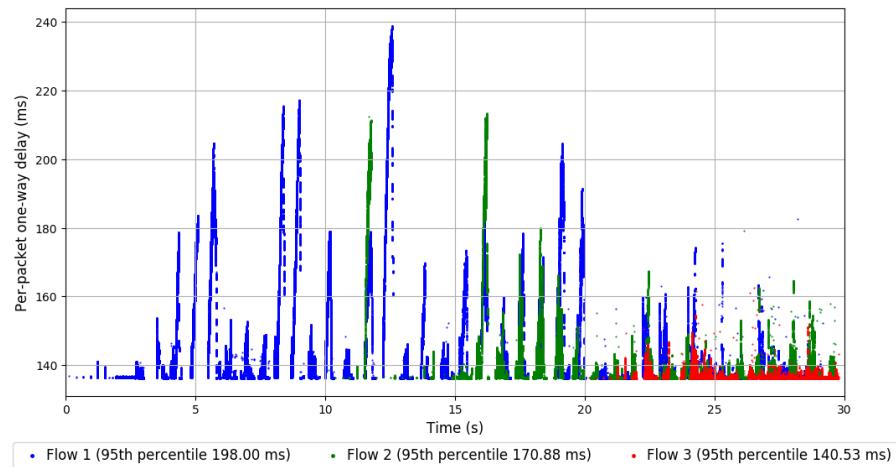
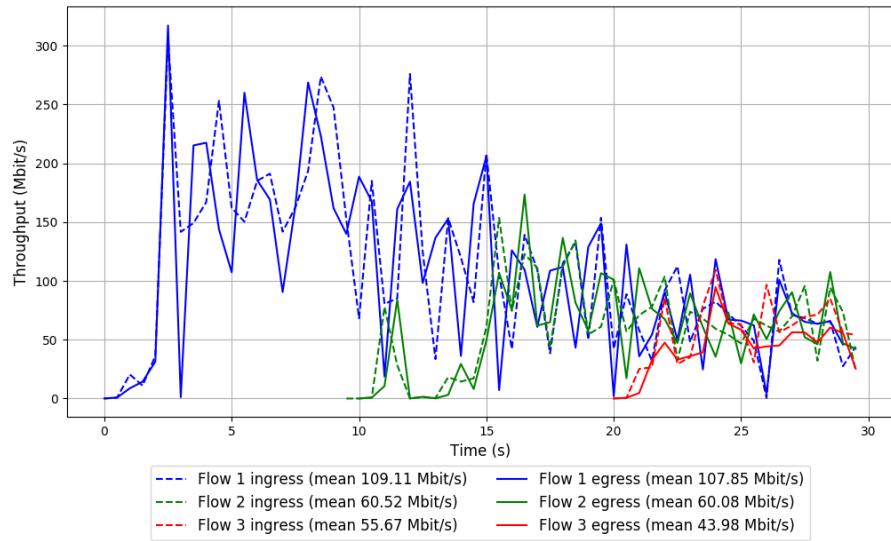
Run 9: Statistics of Verus

Start at: 2017-08-12 14:39:07

End at: 2017-08-12 14:39:37

```
# Below is generated by plot.py at 2017-08-12 18:08:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 160.32 Mbit/s
95th percentile per-packet one-way delay: 190.375 ms
Loss rate: 5.34%
-- Flow 1:
Average throughput: 107.85 Mbit/s
95th percentile per-packet one-way delay: 198.003 ms
Loss rate: 3.31%
-- Flow 2:
Average throughput: 60.08 Mbit/s
95th percentile per-packet one-way delay: 170.880 ms
Loss rate: 2.72%
-- Flow 3:
Average throughput: 43.98 Mbit/s
95th percentile per-packet one-way delay: 140.527 ms
Loss rate: 23.18%
```

Run 9: Report of Verus — Data Link



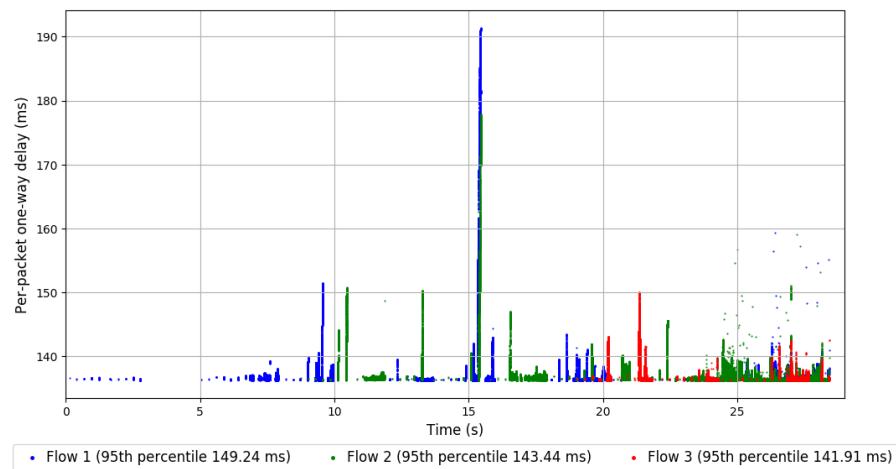
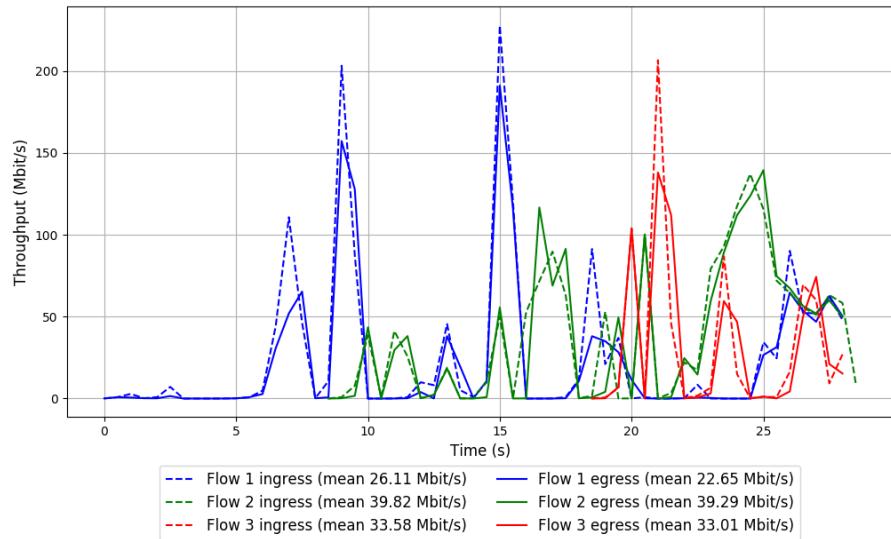
Run 10: Statistics of Verus

Start at: 2017-08-12 14:53:15

End at: 2017-08-12 14:53:45

```
# Below is generated by plot.py at 2017-08-12 18:08:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 61.24 Mbit/s
95th percentile per-packet one-way delay: 143.179 ms
Loss rate: 7.12%
-- Flow 1:
Average throughput: 22.65 Mbit/s
95th percentile per-packet one-way delay: 149.239 ms
Loss rate: 13.63%
-- Flow 2:
Average throughput: 39.29 Mbit/s
95th percentile per-packet one-way delay: 143.443 ms
Loss rate: 2.70%
-- Flow 3:
Average throughput: 33.01 Mbit/s
95th percentile per-packet one-way delay: 141.912 ms
Loss rate: 3.11%
```

## Run 10: Report of Verus — Data Link

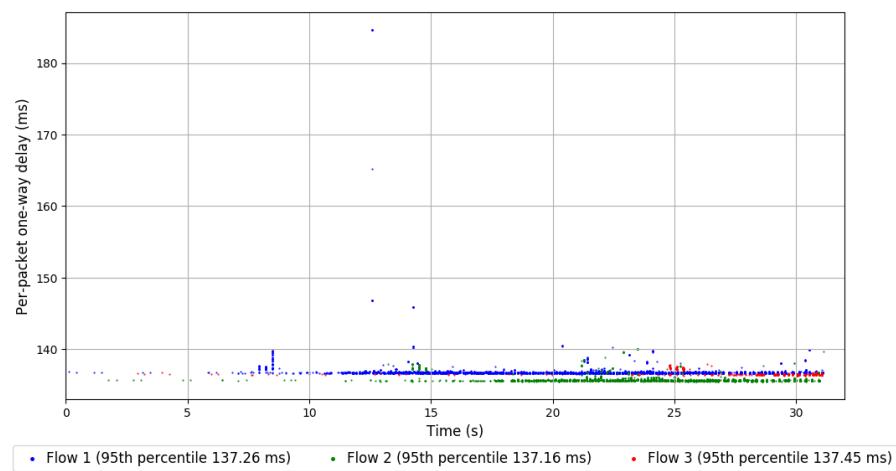
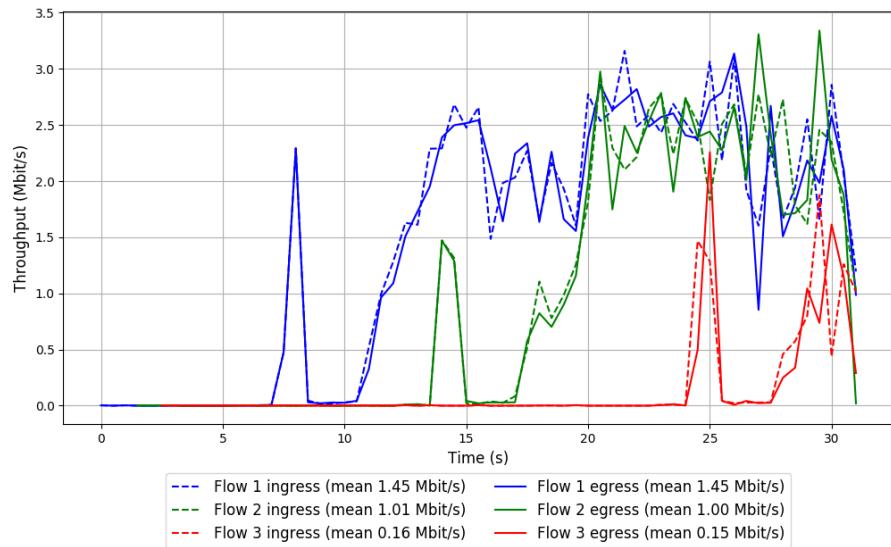


```
Run 1: Statistics of WebRTC media

Start at: 2017-08-12 12:35:15
End at: 2017-08-12 12:35:45

# Below is generated by plot.py at 2017-08-12 18:08:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.53 Mbit/s
95th percentile per-packet one-way delay: 137.269 ms
Loss rate: 2.01%
-- Flow 1:
Average throughput: 1.45 Mbit/s
95th percentile per-packet one-way delay: 137.263 ms
Loss rate: 1.32%
-- Flow 2:
Average throughput: 1.00 Mbit/s
95th percentile per-packet one-way delay: 137.161 ms
Loss rate: 1.69%
-- Flow 3:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 137.454 ms
Loss rate: 10.82%
```

Run 1: Report of WebRTC media — Data Link

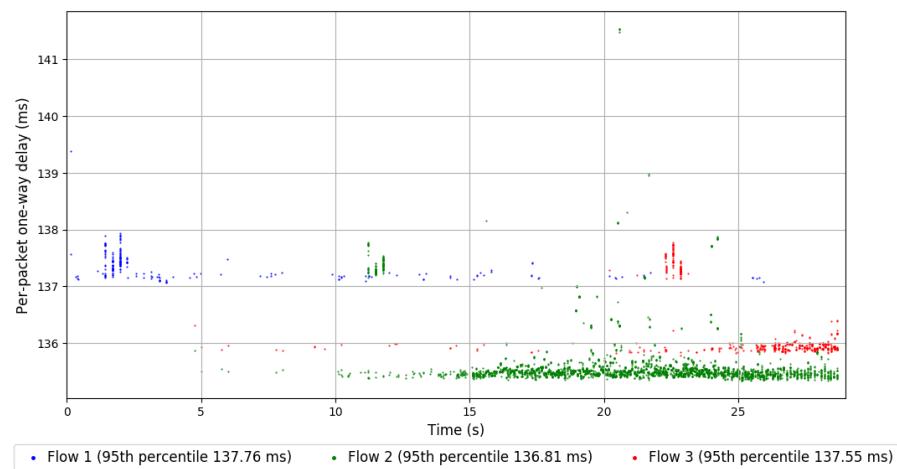
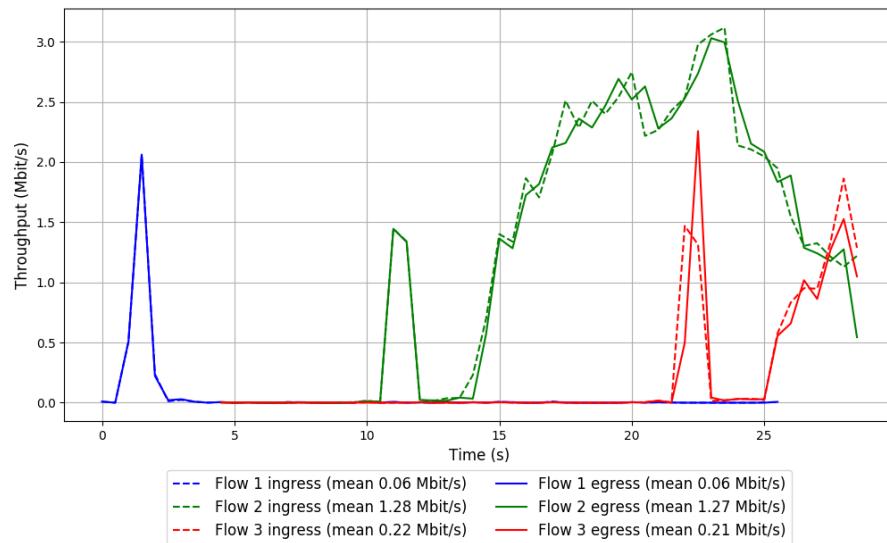


```
Run 2: Statistics of WebRTC media

Start at: 2017-08-12 12:49:22
End at: 2017-08-12 12:49:52

# Below is generated by plot.py at 2017-08-12 18:08:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.29 Mbit/s
95th percentile per-packet one-way delay: 137.389 ms
Loss rate: 2.38%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 137.761 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.27 Mbit/s
95th percentile per-packet one-way delay: 136.814 ms
Loss rate: 1.54%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 137.550 ms
Loss rate: 7.90%
```

Run 2: Report of WebRTC media — Data Link



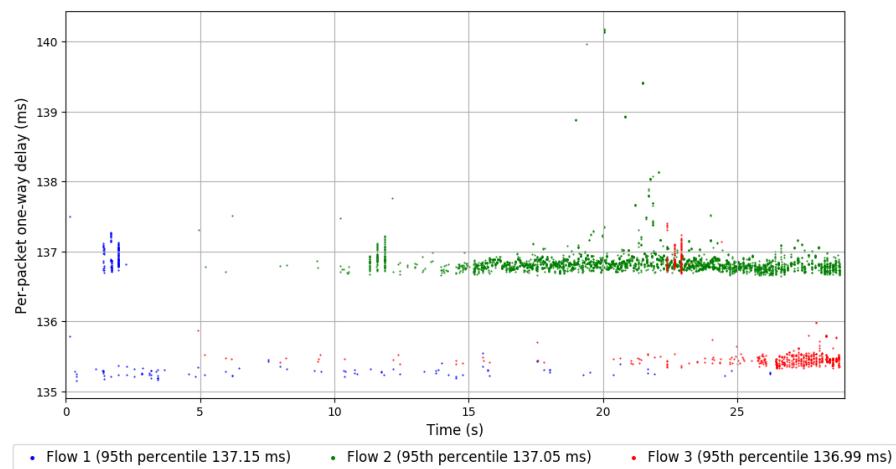
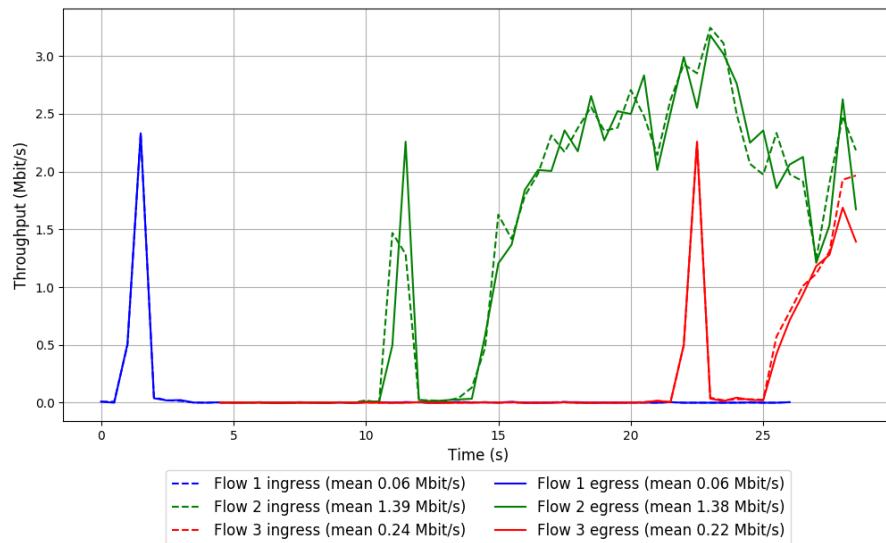
Run 3: Statistics of WebRTC media

Start at: 2017-08-12 13:03:11

End at: 2017-08-12 13:03:41

```
# Below is generated by plot.py at 2017-08-12 18:08:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.39 Mbit/s
95th percentile per-packet one-way delay: 137.053 ms
Loss rate: 2.74%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 137.145 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.38 Mbit/s
95th percentile per-packet one-way delay: 137.047 ms
Loss rate: 1.73%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.993 ms
Loss rate: 9.29%
```

Run 3: Report of WebRTC media — Data Link

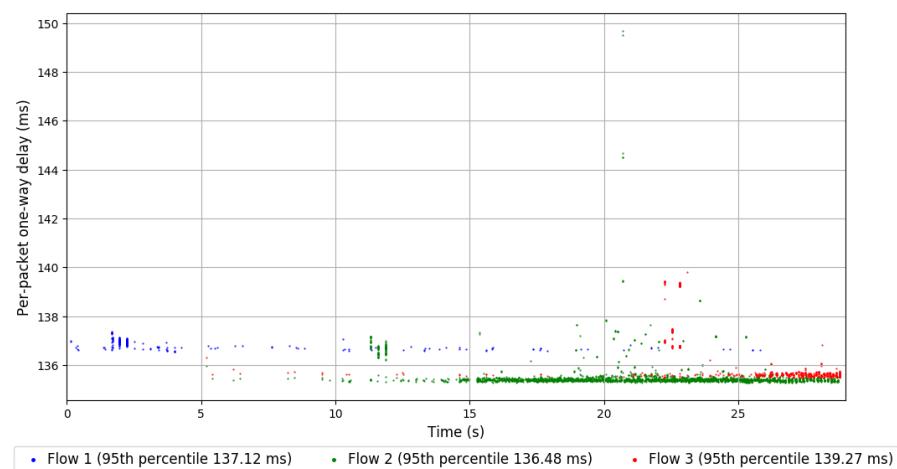
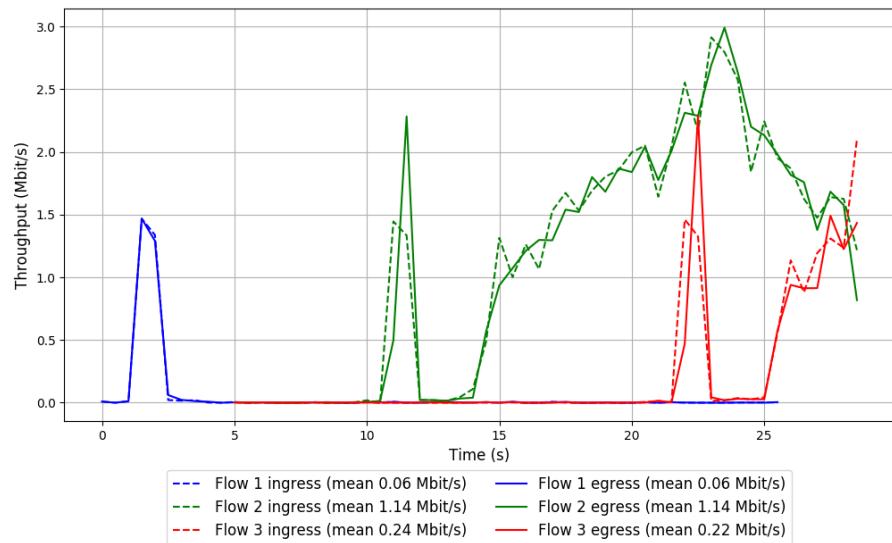


```
Run 4: Statistics of WebRTC media

Start at: 2017-08-12 13:17:03
End at: 2017-08-12 13:17:33

# Below is generated by plot.py at 2017-08-12 18:08:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.17 Mbit/s
95th percentile per-packet one-way delay: 136.991 ms
Loss rate: 2.52%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 137.115 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.14 Mbit/s
95th percentile per-packet one-way delay: 136.481 ms
Loss rate: 1.46%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 139.266 ms
Loss rate: 8.25%
```

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



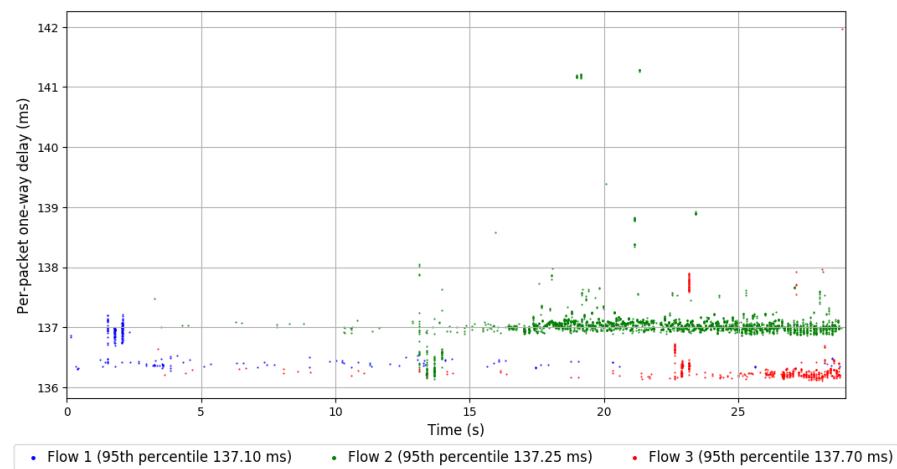
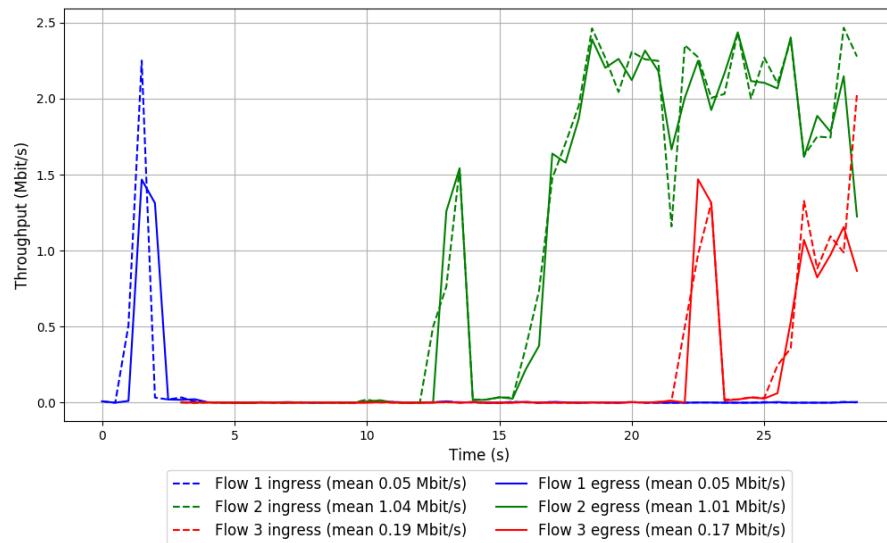
Run 5: Statistics of WebRTC media

Start at: 2017-08-12 13:30:54

End at: 2017-08-12 13:31:24

```
# Below is generated by plot.py at 2017-08-12 18:08:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.10 Mbit/s
95th percentile per-packet one-way delay: 137.247 ms
Loss rate: 4.85%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 137.097 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.01 Mbit/s
95th percentile per-packet one-way delay: 137.247 ms
Loss rate: 3.29%
-- Flow 3:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 137.697 ms
Loss rate: 14.74%
```

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



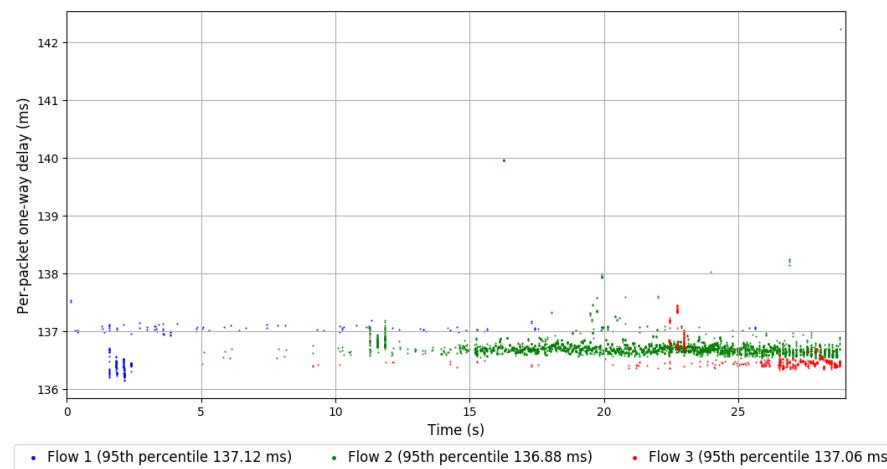
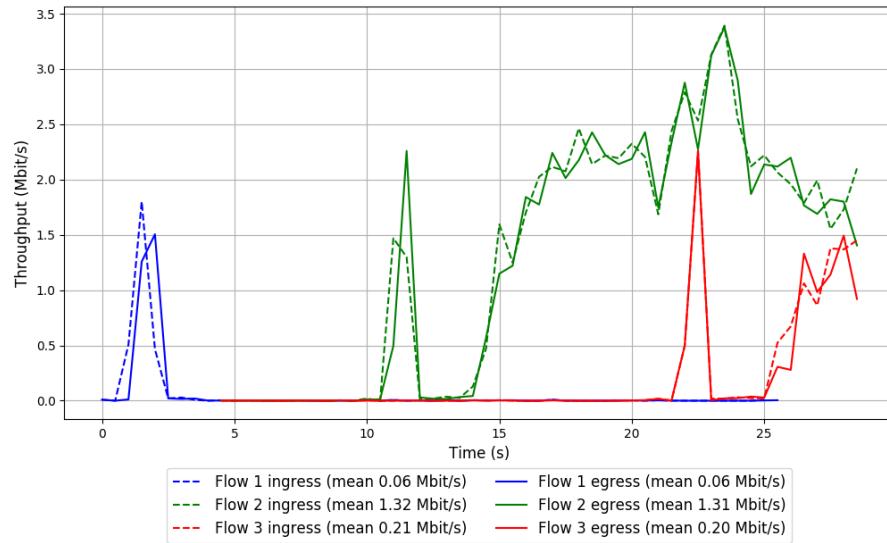
Run 6: Statistics of WebRTC media

Start at: 2017-08-12 13:45:24

End at: 2017-08-12 13:45:54

```
# Below is generated by plot.py at 2017-08-12 18:08:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.31 Mbit/s
95th percentile per-packet one-way delay: 136.995 ms
Loss rate: 2.54%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 137.120 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.31 Mbit/s
95th percentile per-packet one-way delay: 136.880 ms
Loss rate: 1.71%
-- Flow 3:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 137.062 ms
Loss rate: 8.43%
```

### Run 6: Report of WebRTC media — Data Link



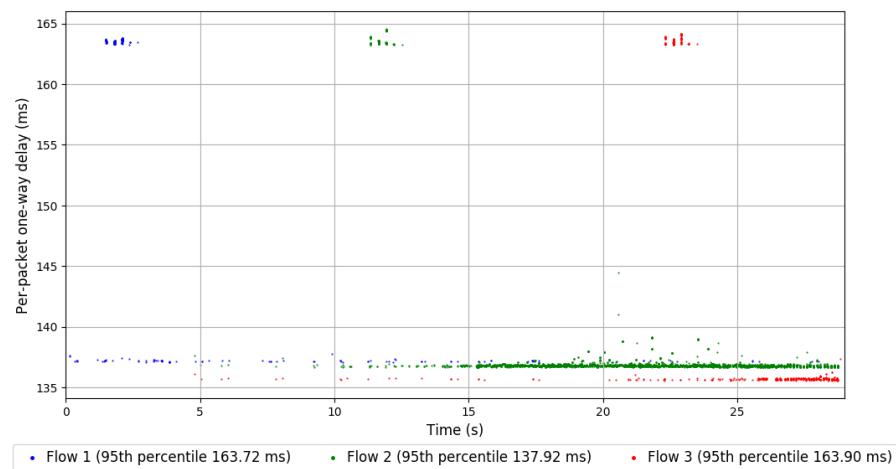
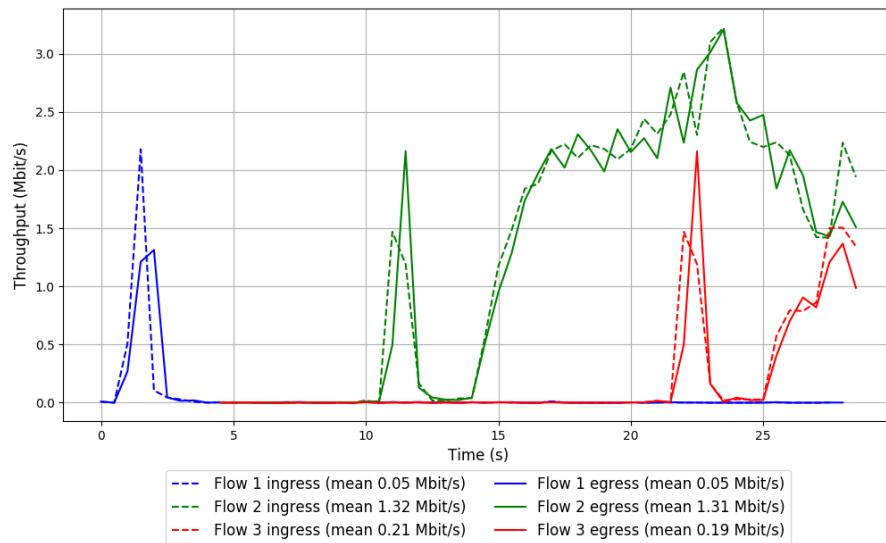
Run 7: Statistics of WebRTC media

Start at: 2017-08-12 13:58:49

End at: 2017-08-12 13:59:19

```
# Below is generated by plot.py at 2017-08-12 18:08:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.31 Mbit/s
95th percentile per-packet one-way delay: 163.444 ms
Loss rate: 2.93%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 163.716 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.31 Mbit/s
95th percentile per-packet one-way delay: 137.920 ms
Loss rate: 2.00%
-- Flow 3:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 163.898 ms
Loss rate: 9.52%
```

Run 7: Report of WebRTC media — Data Link



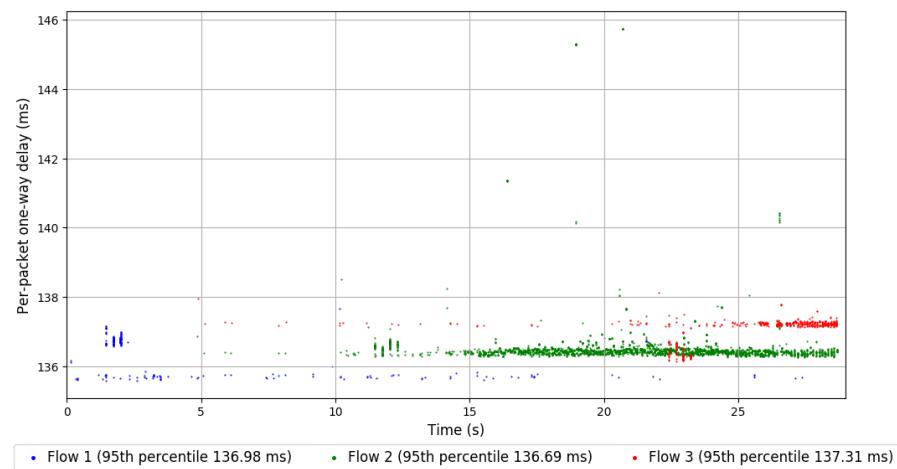
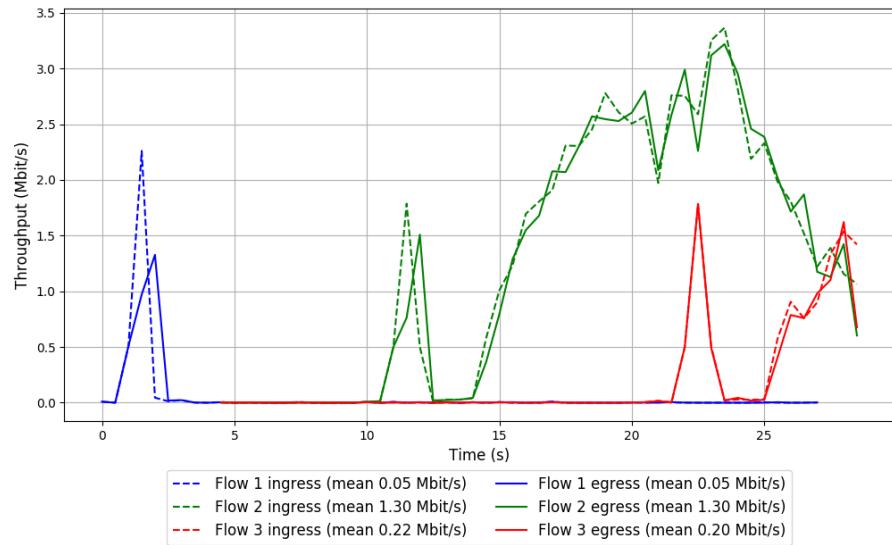
Run 8: Statistics of WebRTC media

Start at: 2017-08-12 14:12:17

End at: 2017-08-12 14:12:47

```
# Below is generated by plot.py at 2017-08-12 18:08:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.30 Mbit/s
95th percentile per-packet one-way delay: 137.244 ms
Loss rate: 2.46%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 136.977 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.30 Mbit/s
95th percentile per-packet one-way delay: 136.694 ms
Loss rate: 1.22%
-- Flow 3:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 137.306 ms
Loss rate: 10.68%
```

### Run 8: Report of WebRTC media — Data Link



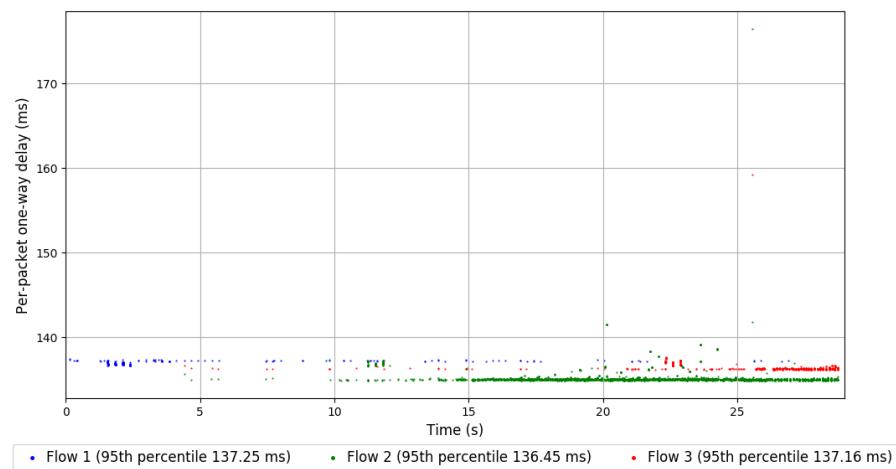
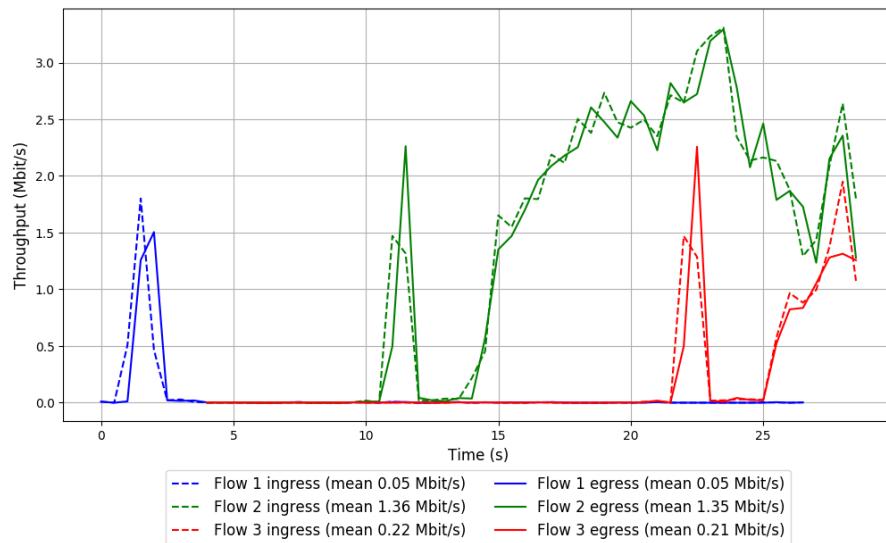
Run 9: Statistics of WebRTC media

Start at: 2017-08-12 14:26:08

End at: 2017-08-12 14:26:38

```
# Below is generated by plot.py at 2017-08-12 18:08:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.38 Mbit/s
95th percentile per-packet one-way delay: 137.061 ms
Loss rate: 2.42%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 137.250 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.35 Mbit/s
95th percentile per-packet one-way delay: 136.450 ms
Loss rate: 1.80%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 137.158 ms
Loss rate: 6.90%
```

### Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-08-12 14:40:11

End at: 2017-08-12 14:40:41

```
# Below is generated by plot.py at 2017-08-12 18:08:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.31 Mbit/s
95th percentile per-packet one-way delay: 136.992 ms
Loss rate: 2.54%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 136.817 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.28 Mbit/s
95th percentile per-packet one-way delay: 137.018 ms
Loss rate: 1.67%
-- Flow 3:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 136.805 ms
Loss rate: 8.77%
```

### Run 10: Report of WebRTC media — Data Link

