

## Pantheon Report

Generated at 2017-09-08 10:12:53 (UTC).

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

Repeated the test of 15 congestion control schemes 10 times.

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

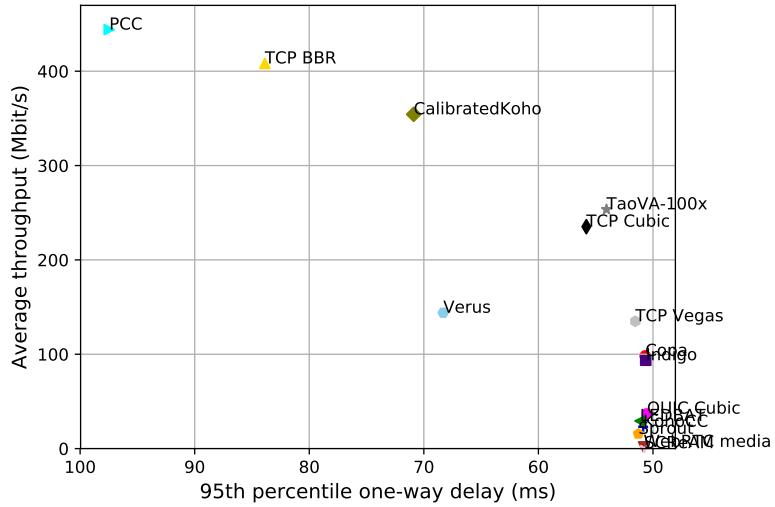
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

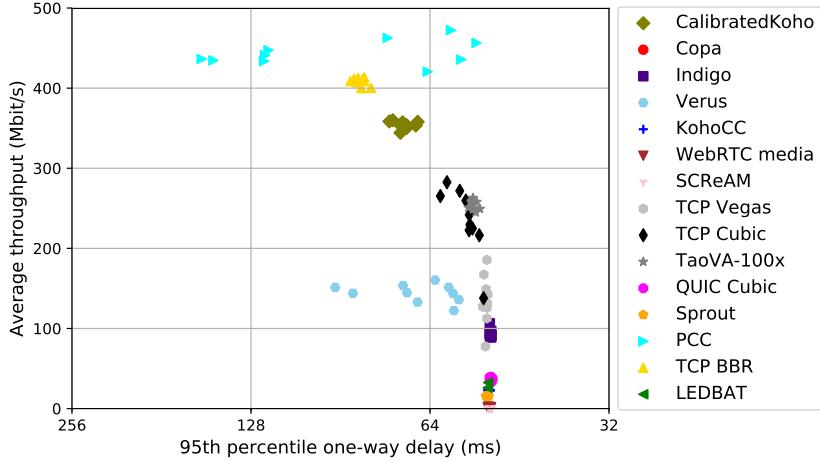
Git summary:

```
branch: master @ 2a98508c2457474d84cd2966a42b80b0bc62ecaf
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
M datagrump/sender.cc
third_party/genericCC @ f7ca42f251bf49b432bb71de6d13fa903515c366
third_party/indigo @ 10192113fb6902d25c86e0e3e4c85d7a05e43d7e
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaaab4a906ce6bb7cf3cf
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
```

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



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



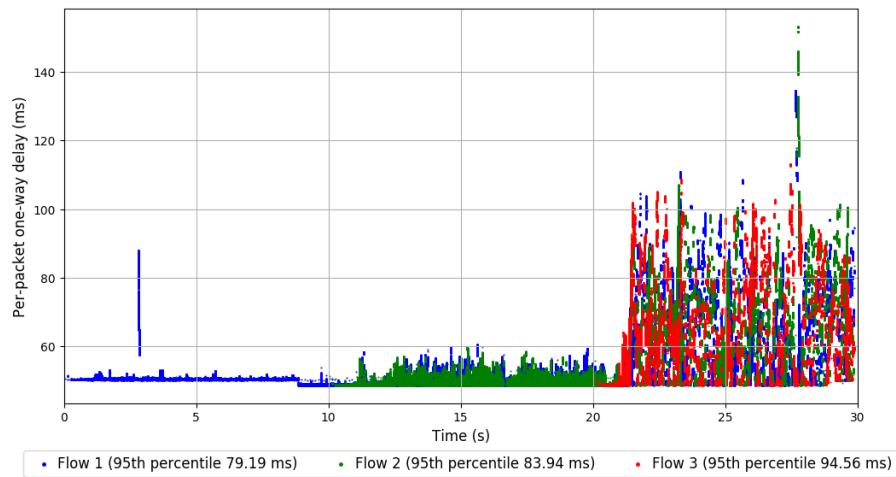
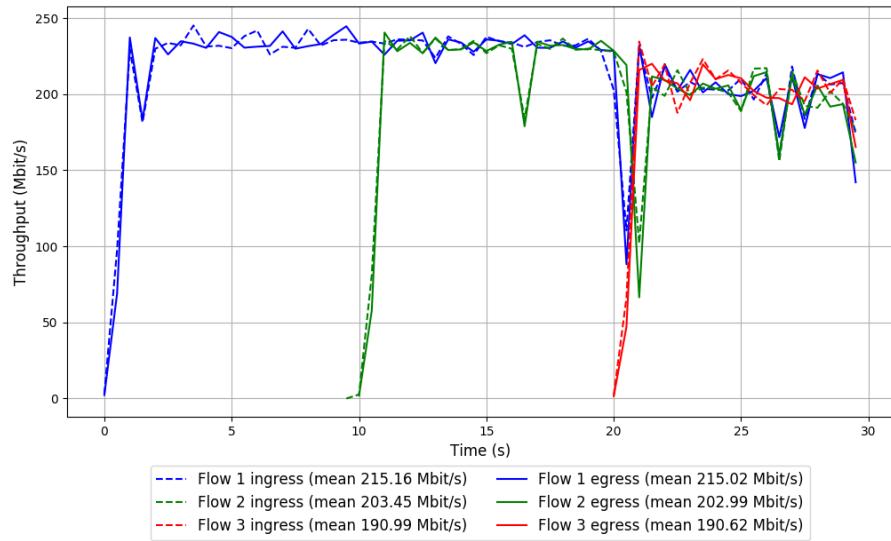
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	211.71	202.44	188.07	78.40	84.82	90.98	0.40	0.60	1.30
CalibratedKoho	10	221.19	149.13	103.53	72.59	67.69	71.55	0.22	0.51	1.72
Copa	4	56.62	48.55	37.70	50.65	50.69	50.62	0.26	0.45	0.63
TCP Cubic	10	117.28	136.00	83.66	54.46	55.75	56.09	0.35	0.48	1.80
Indigo	10	36.27	66.56	41.31	50.62	50.67	50.46	0.35	0.35	1.22
KohoCC	10	11.66	11.56	11.34	50.87	50.77	50.74	0.35	0.53	1.06
LEDBAT	2	16.05	15.82	8.15	51.24	51.02	51.04	0.57	0.82	2.17
PCC	10	298.17	168.59	105.95	104.87	52.59	51.16	0.90	0.40	1.02
QUIC Cubic	10	0.06	39.78	31.73	50.34	50.37	50.37	0.00	0.50	1.17
SCReAM	10	0.22	0.22	0.22	50.48	50.46	50.48	0.32	0.44	0.89
Sprout	10	7.92	7.84	7.58	51.27	51.29	51.05	0.42	0.53	1.06
TaoVA-100x	10	160.18	109.43	84.76	53.41	55.10	53.76	0.22	0.38	1.55
TCP Vegas	10	63.63	73.21	68.71	51.17	51.43	52.20	0.40	0.58	1.09
Verus	10	88.74	61.41	44.91	71.73	63.09	61.87	0.17	0.31	0.97
WebRTC media	10	0.16	1.58	0.39	87.86	50.75	50.70	0.01	0.81	2.42

```
Run 1: Statistics of TCP BBR

Start at: 2017-09-08 04:21:43
End at: 2017-09-08 04:22:13

# Below is generated by plot.py at 2017-09-08 09:33:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 412.59 Mbit/s
95th percentile per-packet one-way delay: 84.511 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 215.02 Mbit/s
95th percentile per-packet one-way delay: 79.189 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 202.99 Mbit/s
95th percentile per-packet one-way delay: 83.940 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 190.62 Mbit/s
95th percentile per-packet one-way delay: 94.560 ms
Loss rate: 1.19%
```

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



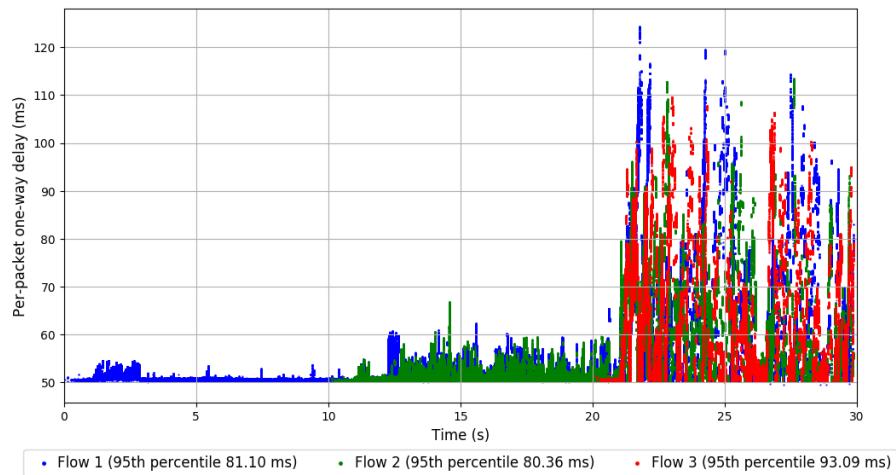
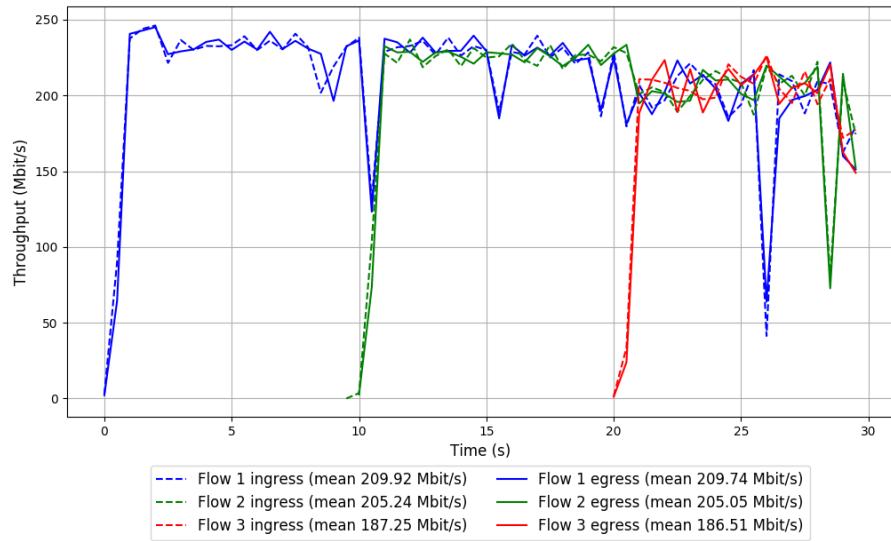
Run 2: Statistics of TCP BBR

Start at: 2017-09-08 04:34:05

End at: 2017-09-08 04:34:35

```
# Below is generated by plot.py at 2017-09-08 09:33:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 407.44 Mbit/s
95th percentile per-packet one-way delay: 84.505 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 209.74 Mbit/s
95th percentile per-packet one-way delay: 81.097 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 205.05 Mbit/s
95th percentile per-packet one-way delay: 80.357 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 186.51 Mbit/s
95th percentile per-packet one-way delay: 93.095 ms
Loss rate: 1.43%
```

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



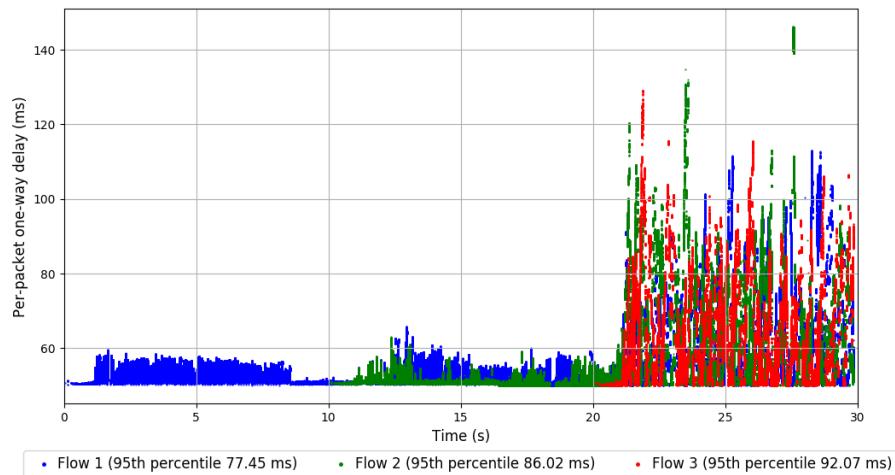
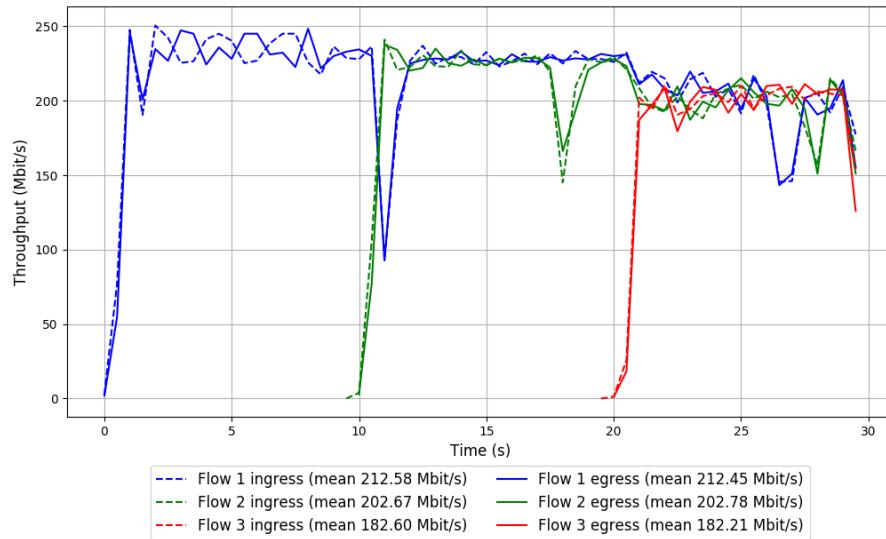
Run 3: Statistics of TCP BBR

Start at: 2017-09-08 04:46:15

End at: 2017-09-08 04:46:45

```
# Below is generated by plot.py at 2017-09-08 09:34:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 407.42 Mbit/s
95th percentile per-packet one-way delay: 84.991 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 212.45 Mbit/s
95th percentile per-packet one-way delay: 77.455 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 202.78 Mbit/s
95th percentile per-packet one-way delay: 86.018 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 182.21 Mbit/s
95th percentile per-packet one-way delay: 92.067 ms
Loss rate: 1.35%
```

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



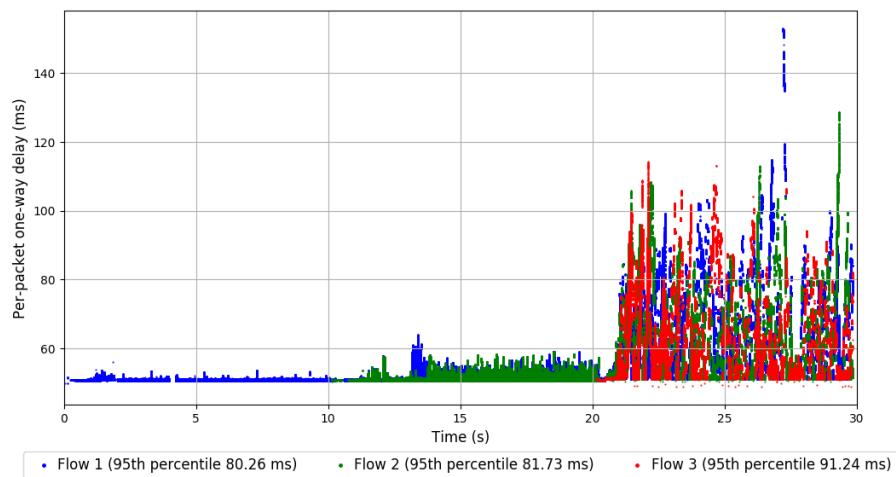
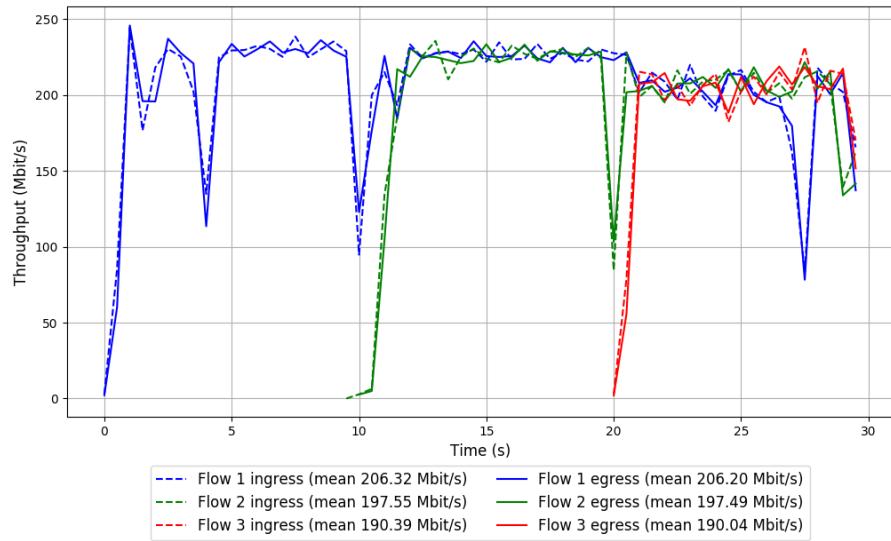
Run 4: Statistics of TCP BBR

Start at: 2017-09-08 04:58:31

End at: 2017-09-08 04:59:01

```
# Below is generated by plot.py at 2017-09-08 09:34:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 400.03 Mbit/s
95th percentile per-packet one-way delay: 83.472 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 206.20 Mbit/s
95th percentile per-packet one-way delay: 80.258 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 197.49 Mbit/s
95th percentile per-packet one-way delay: 81.733 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 190.04 Mbit/s
95th percentile per-packet one-way delay: 91.240 ms
Loss rate: 1.28%
```

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



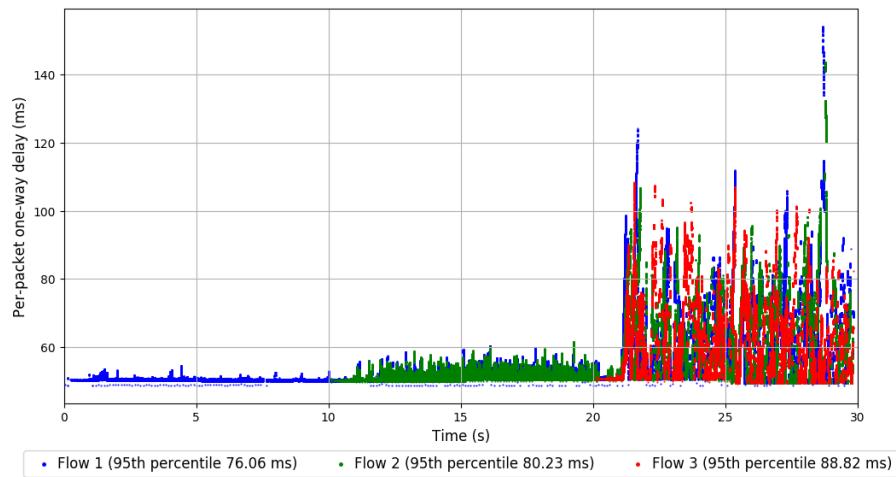
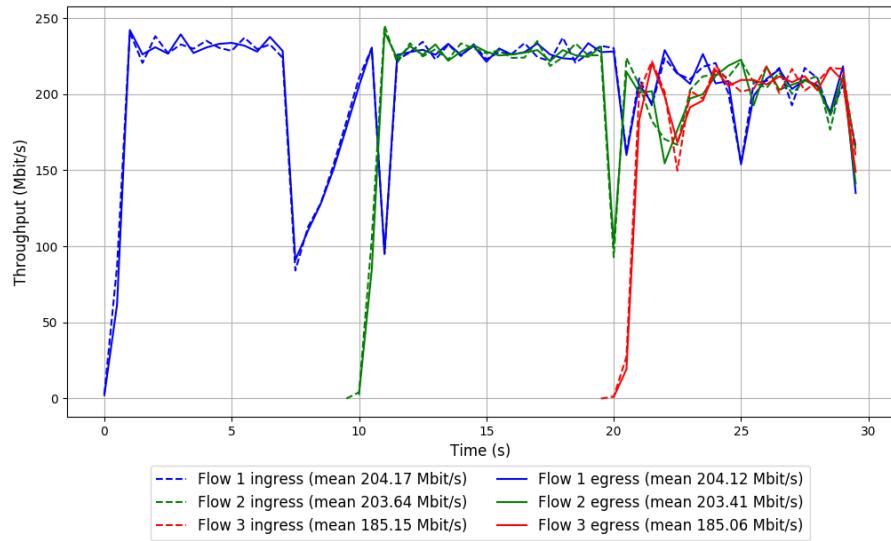
Run 5: Statistics of TCP BBR

Start at: 2017-09-08 05:10:56

End at: 2017-09-08 05:11:26

```
# Below is generated by plot.py at 2017-09-08 09:35:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 400.32 Mbit/s
95th percentile per-packet one-way delay: 80.385 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 204.12 Mbit/s
95th percentile per-packet one-way delay: 76.058 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 203.41 Mbit/s
95th percentile per-packet one-way delay: 80.232 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 185.06 Mbit/s
95th percentile per-packet one-way delay: 88.822 ms
Loss rate: 1.12%
```

Run 5: Report of TCP BBR — Data Link



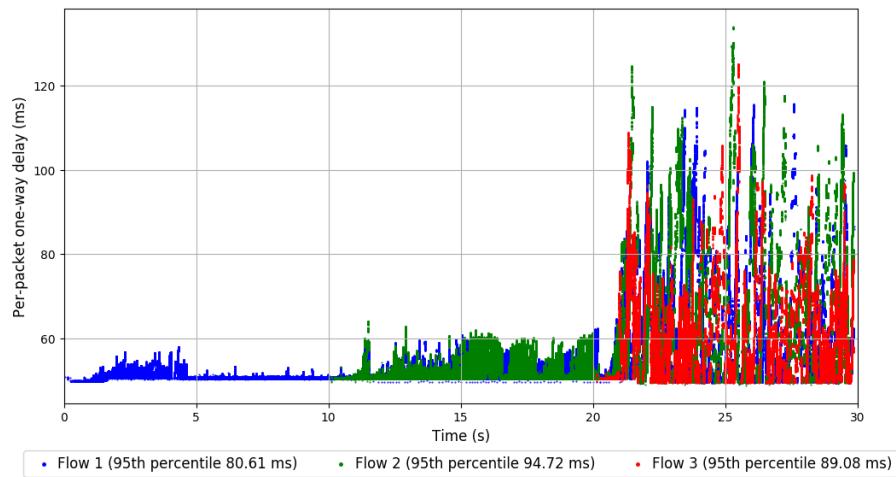
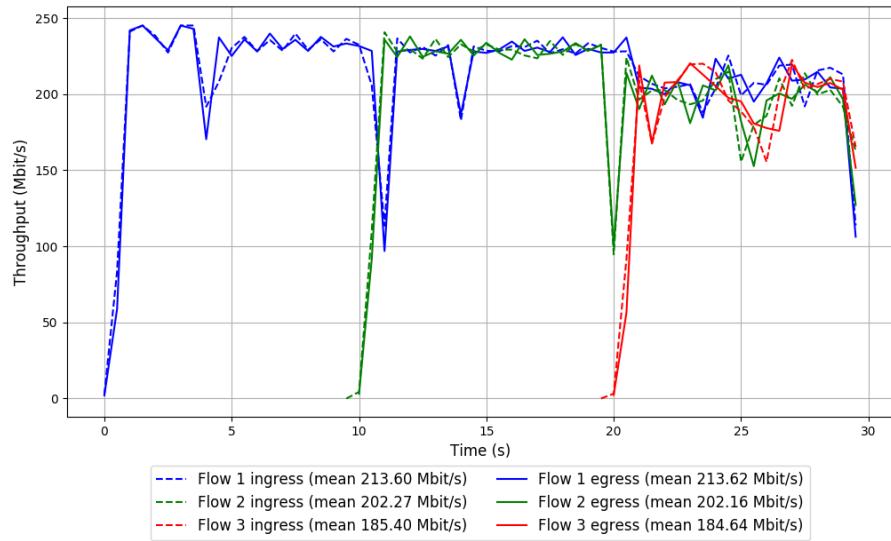
Run 6: Statistics of TCP BBR

Start at: 2017-09-08 05:23:10

End at: 2017-09-08 05:23:40

```
# Below is generated by plot.py at 2017-09-08 09:36:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 408.87 Mbit/s
95th percentile per-packet one-way delay: 87.075 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 213.62 Mbit/s
95th percentile per-packet one-way delay: 80.606 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 202.16 Mbit/s
95th percentile per-packet one-way delay: 94.722 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 184.64 Mbit/s
95th percentile per-packet one-way delay: 89.075 ms
Loss rate: 1.28%
```

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



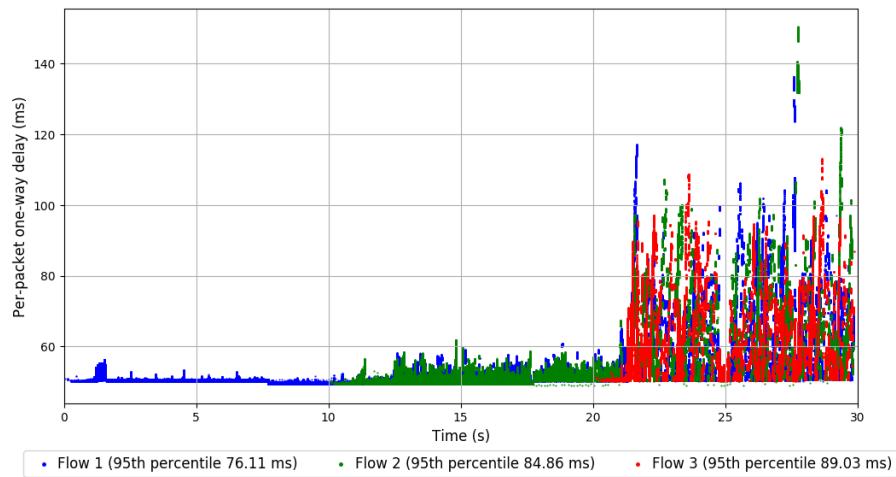
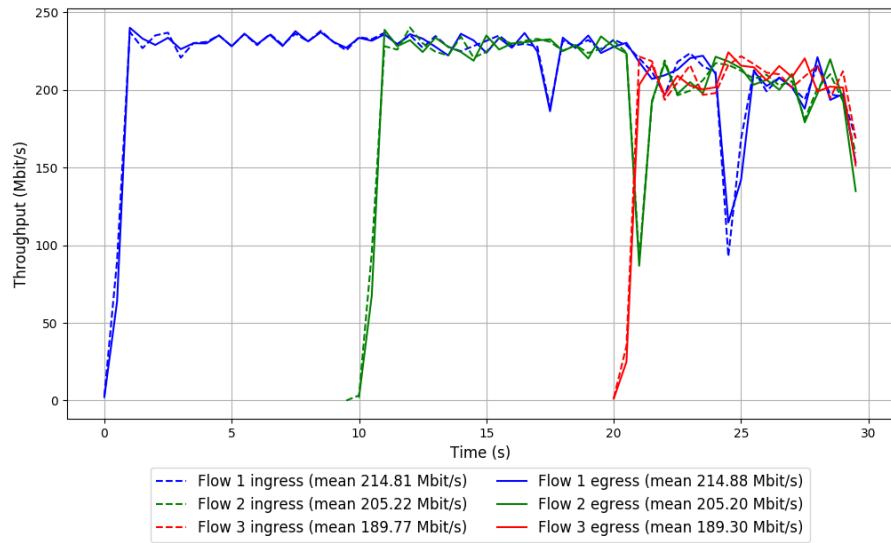
Run 7: Statistics of TCP BBR

Start at: 2017-09-08 05:35:14

End at: 2017-09-08 05:35:44

```
# Below is generated by plot.py at 2017-09-08 09:37:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 413.62 Mbit/s
95th percentile per-packet one-way delay: 82.544 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 214.88 Mbit/s
95th percentile per-packet one-way delay: 76.106 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 205.20 Mbit/s
95th percentile per-packet one-way delay: 84.855 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 189.30 Mbit/s
95th percentile per-packet one-way delay: 89.027 ms
Loss rate: 1.28%
```

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



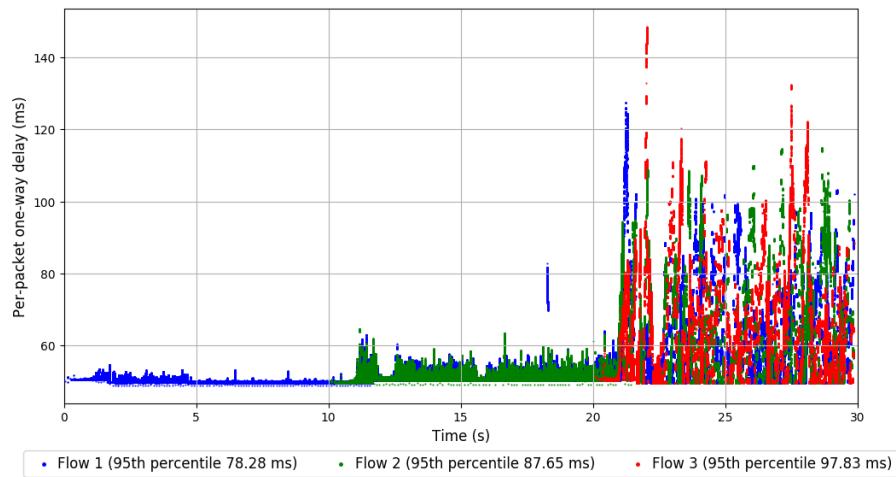
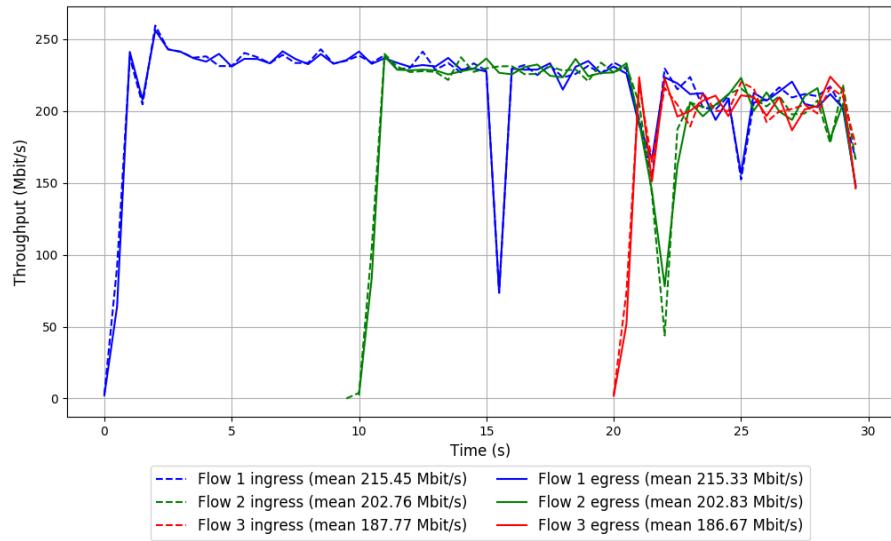
Run 8: Statistics of TCP BBR

Start at: 2017-09-08 05:47:30

End at: 2017-09-08 05:48:00

```
# Below is generated by plot.py at 2017-09-08 09:37:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 411.57 Mbit/s
95th percentile per-packet one-way delay: 85.815 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 215.33 Mbit/s
95th percentile per-packet one-way delay: 78.277 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 202.83 Mbit/s
95th percentile per-packet one-way delay: 87.653 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 186.67 Mbit/s
95th percentile per-packet one-way delay: 97.826 ms
Loss rate: 1.43%
```

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



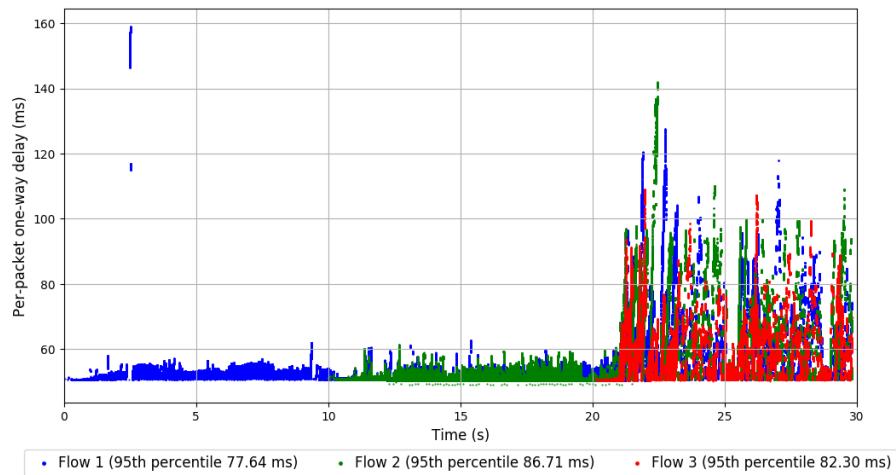
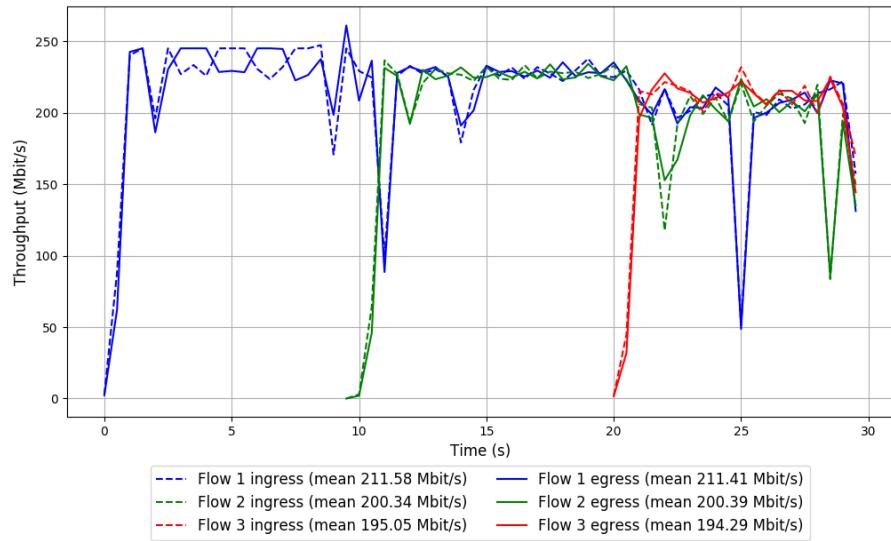
Run 9: Statistics of TCP BBR

Start at: 2017-09-08 05:59:39

End at: 2017-09-08 06:00:09

```
# Below is generated by plot.py at 2017-09-08 09:38:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 408.70 Mbit/s
95th percentile per-packet one-way delay: 82.434 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 211.41 Mbit/s
95th percentile per-packet one-way delay: 77.644 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 200.39 Mbit/s
95th percentile per-packet one-way delay: 86.707 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 194.29 Mbit/s
95th percentile per-packet one-way delay: 82.299 ms
Loss rate: 1.38%
```

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



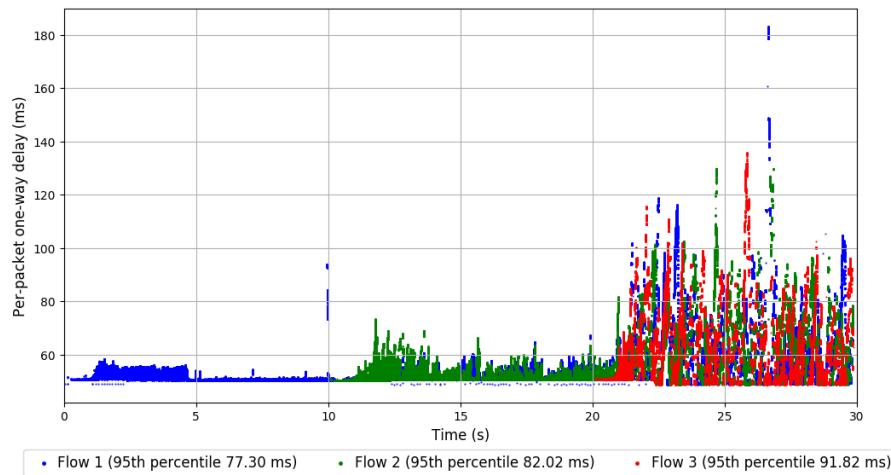
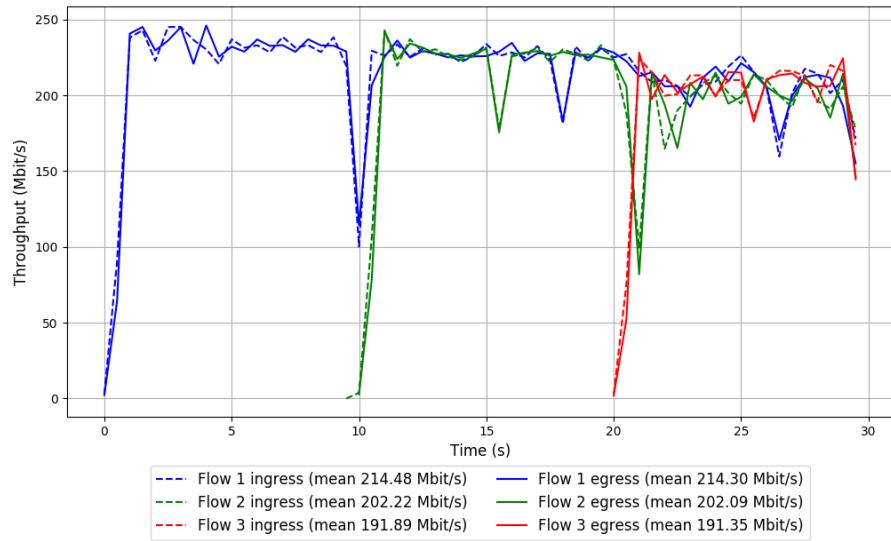
Run 10: Statistics of TCP BBR

Start at: 2017-09-08 06:11:49

End at: 2017-09-08 06:12:19

```
# Below is generated by plot.py at 2017-09-08 09:39:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 411.52 Mbit/s
95th percentile per-packet one-way delay: 83.060 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 214.30 Mbit/s
95th percentile per-packet one-way delay: 77.303 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 202.09 Mbit/s
95th percentile per-packet one-way delay: 82.022 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 191.35 Mbit/s
95th percentile per-packet one-way delay: 91.817 ms
Loss rate: 1.26%
```

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

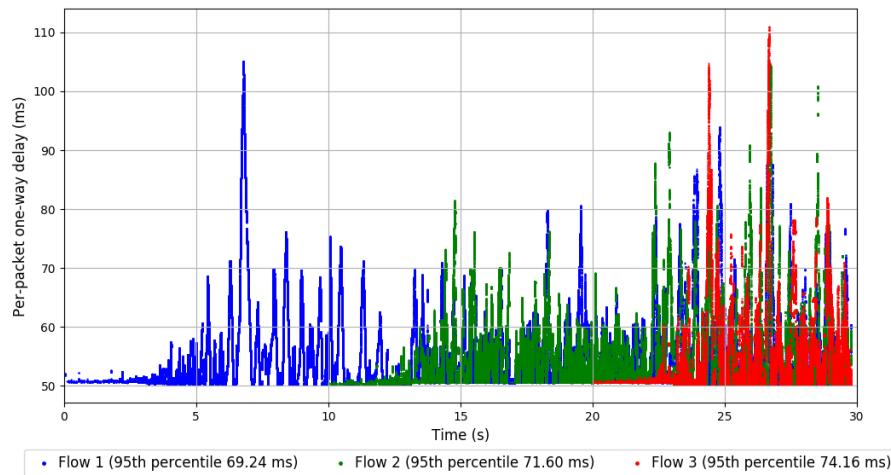
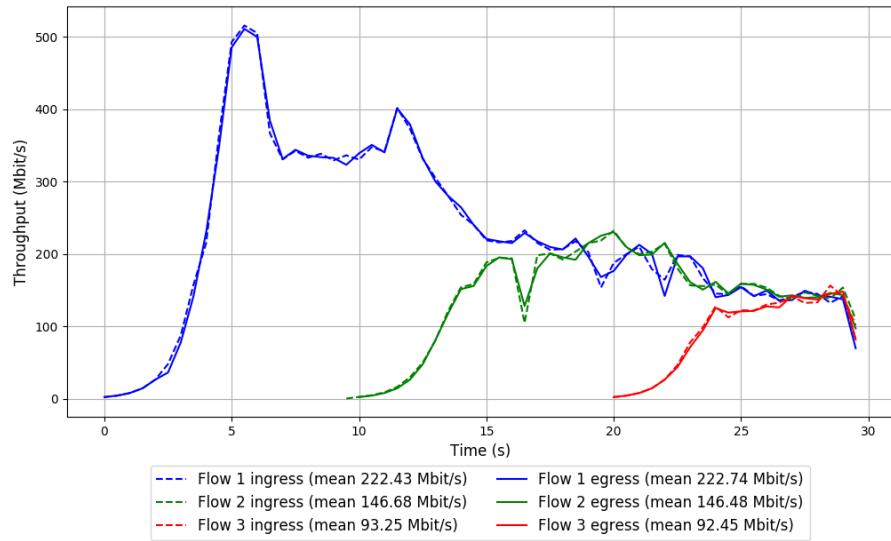


```
Run 1: Statistics of CalibratedKoho

Start at: 2017-09-08 04:18:28
End at: 2017-09-08 04:18:58

# Below is generated by plot.py at 2017-09-08 09:39:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 350.38 Mbit/s
95th percentile per-packet one-way delay: 70.042 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 222.74 Mbit/s
95th percentile per-packet one-way delay: 69.244 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 146.48 Mbit/s
95th percentile per-packet one-way delay: 71.600 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 92.45 Mbit/s
95th percentile per-packet one-way delay: 74.160 ms
Loss rate: 1.85%
```

Run 1: Report of CalibratedKoho — Data Link



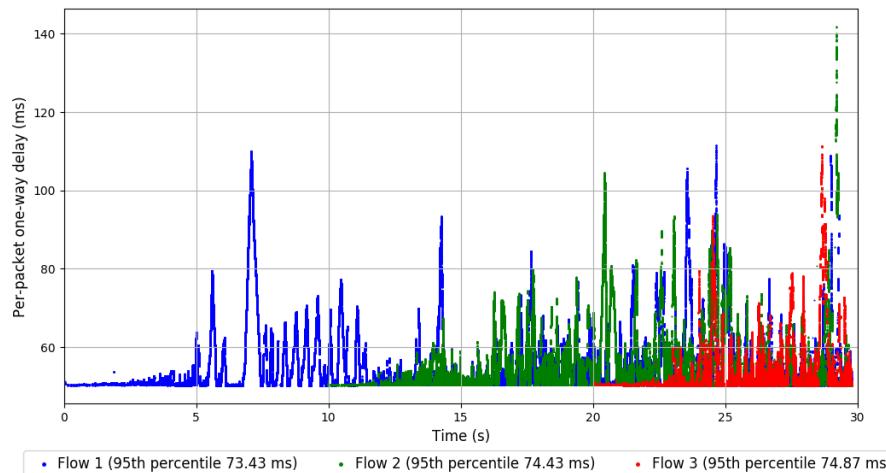
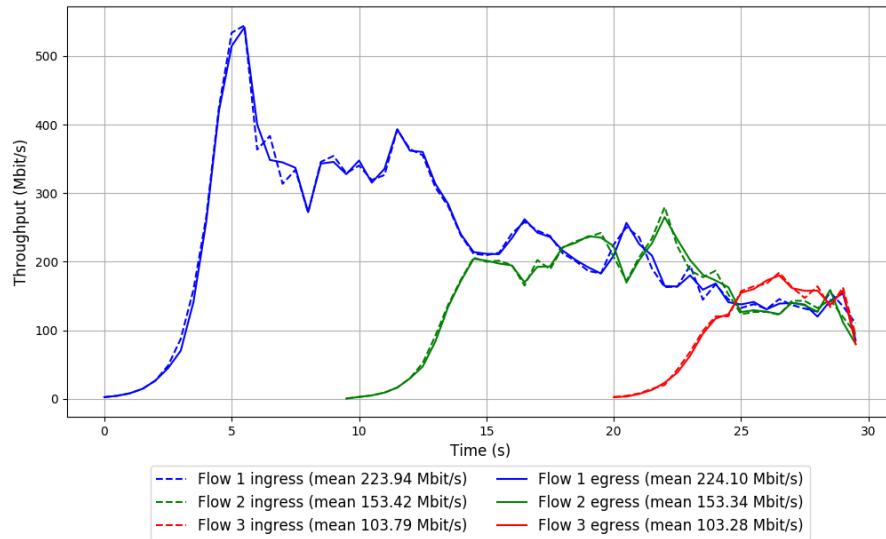
```
Run 2: Statistics of CalibratedKoho
```

```
Start at: 2017-09-08 04:30:40
```

```
End at: 2017-09-08 04:31:10
```

```
# Below is generated by plot.py at 2017-09-08 09:40:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 359.89 Mbit/s
95th percentile per-packet one-way delay: 73.949 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 224.10 Mbit/s
95th percentile per-packet one-way delay: 73.427 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 153.34 Mbit/s
95th percentile per-packet one-way delay: 74.434 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 103.28 Mbit/s
95th percentile per-packet one-way delay: 74.866 ms
Loss rate: 1.59%
```

Run 2: Report of CalibratedKoho — Data Link



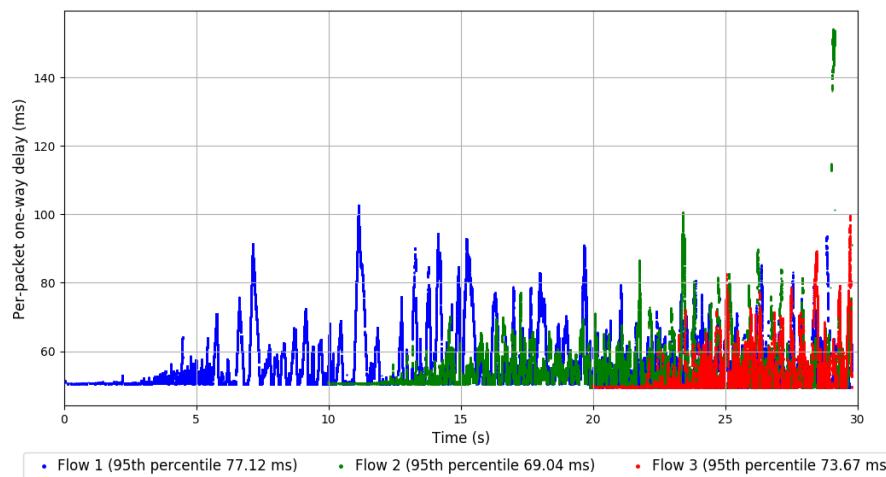
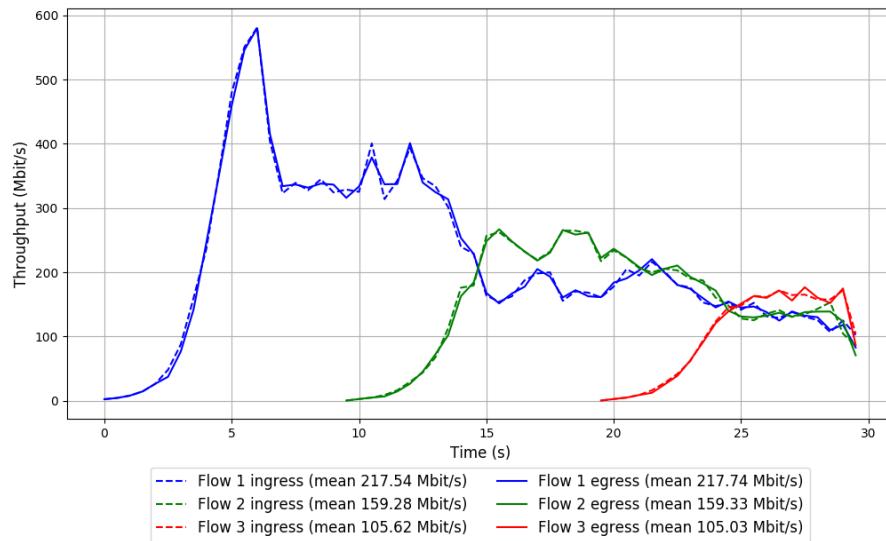
```
Run 3: Statistics of CalibratedKoho
```

```
Start at: 2017-09-08 04:43:02
```

```
End at: 2017-09-08 04:43:32
```

```
# Below is generated by plot.py at 2017-09-08 09:40:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 358.47 Mbit/s
95th percentile per-packet one-way delay: 74.888 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 217.74 Mbit/s
95th percentile per-packet one-way delay: 77.123 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 159.33 Mbit/s
95th percentile per-packet one-way delay: 69.037 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 105.03 Mbit/s
95th percentile per-packet one-way delay: 73.665 ms
Loss rate: 1.57%
```

Run 3: Report of CalibratedKoho — Data Link



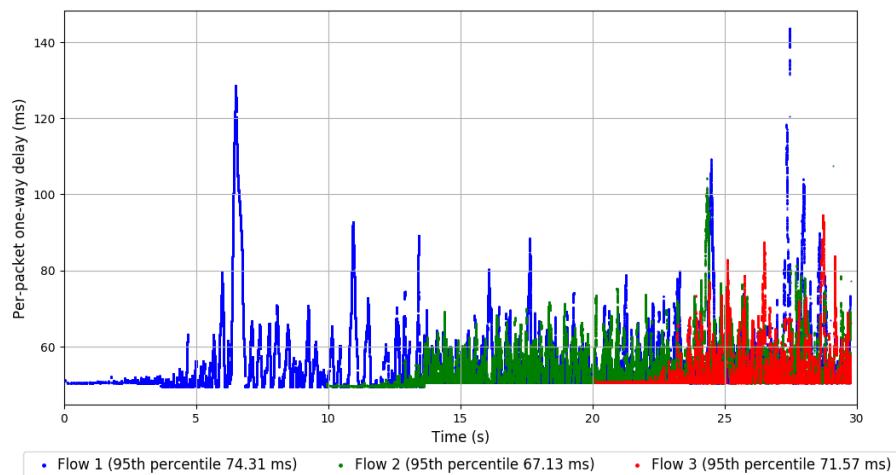
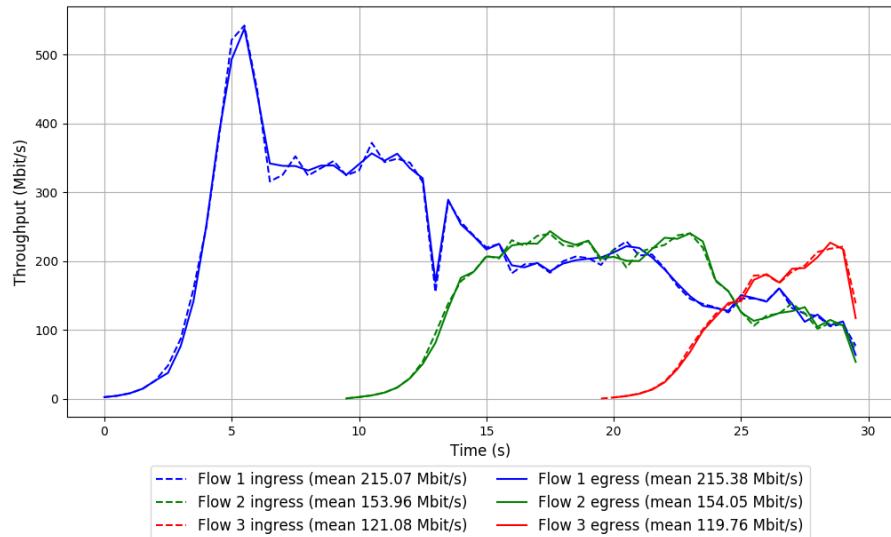
```
Run 4: Statistics of CalibratedKoho
```

```
Start at: 2017-09-08 04:55:08
```

```
End at: 2017-09-08 04:55:38
```

```
# Below is generated by plot.py at 2017-09-08 09:41:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 357.30 Mbit/s
95th percentile per-packet one-way delay: 71.151 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 215.38 Mbit/s
95th percentile per-packet one-way delay: 74.312 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 154.05 Mbit/s
95th percentile per-packet one-way delay: 67.132 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 119.76 Mbit/s
95th percentile per-packet one-way delay: 71.573 ms
Loss rate: 2.04%
```

Run 4: Report of CalibratedKoho — Data Link



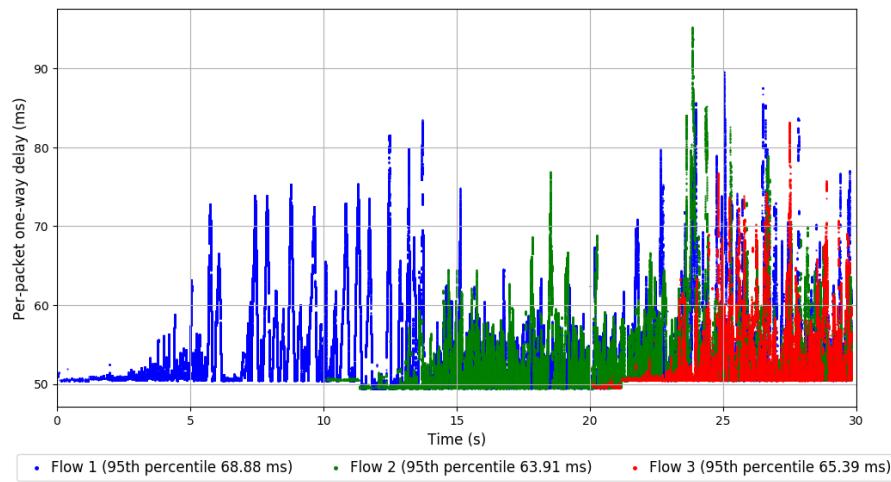
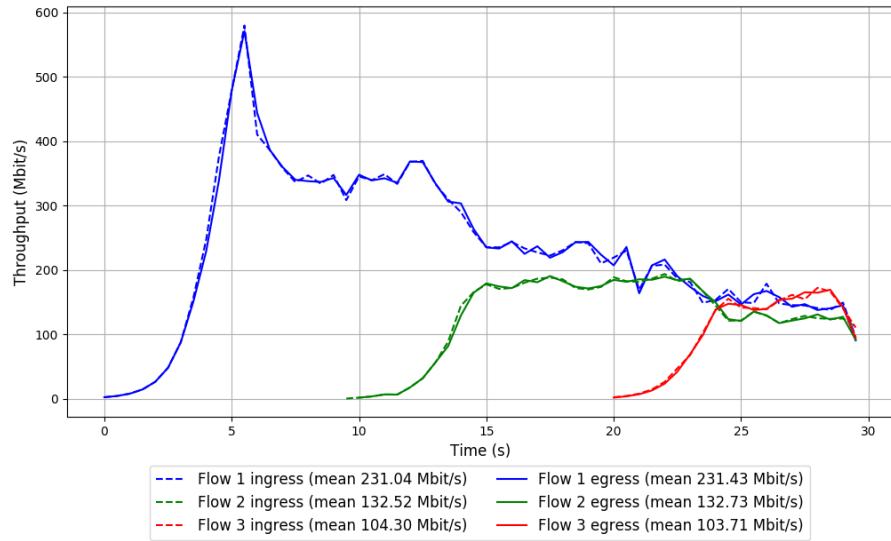
```
Run 5: Statistics of CalibratedKoho
```

```
Start at: 2017-09-08 05:07:30
```

```
End at: 2017-09-08 05:08:00
```

```
# Below is generated by plot.py at 2017-09-08 09:41:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 353.36 Mbit/s
95th percentile per-packet one-way delay: 67.613 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 231.43 Mbit/s
95th percentile per-packet one-way delay: 68.875 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 132.73 Mbit/s
95th percentile per-packet one-way delay: 63.909 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 103.71 Mbit/s
95th percentile per-packet one-way delay: 65.391 ms
Loss rate: 1.58%
```

Run 5: Report of CalibratedKoho — Data Link



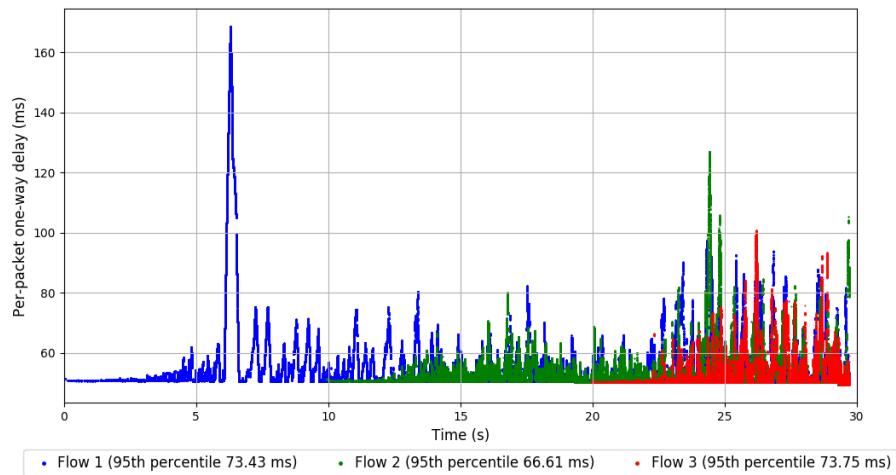
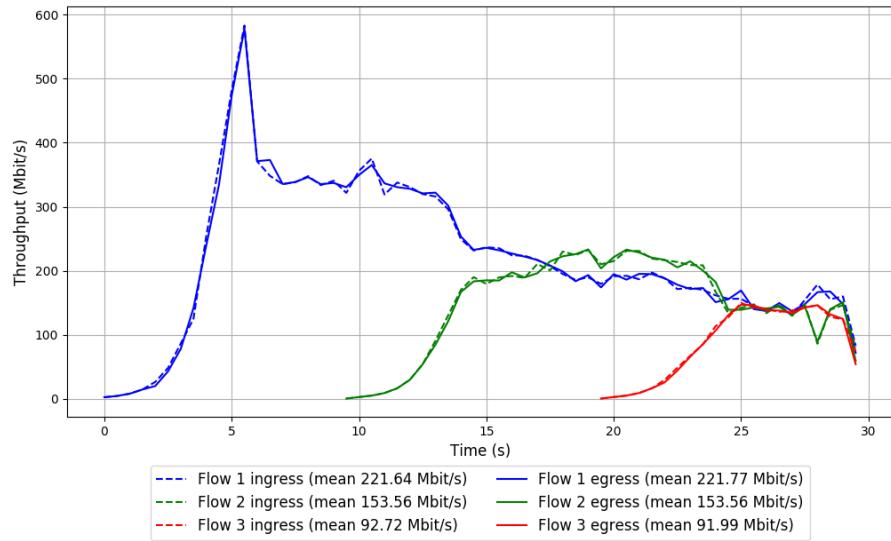
```
Run 6: Statistics of CalibratedKoho
```

```
Start at: 2017-09-08 05:19:52
```

```
End at: 2017-09-08 05:20:22
```

```
# Below is generated by plot.py at 2017-09-08 09:42:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 354.24 Mbit/s
95th percentile per-packet one-way delay: 71.901 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 221.77 Mbit/s
95th percentile per-packet one-way delay: 73.431 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 153.56 Mbit/s
95th percentile per-packet one-way delay: 66.613 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 91.99 Mbit/s
95th percentile per-packet one-way delay: 73.748 ms
Loss rate: 1.71%
```

Run 6: Report of CalibratedKoho — Data Link



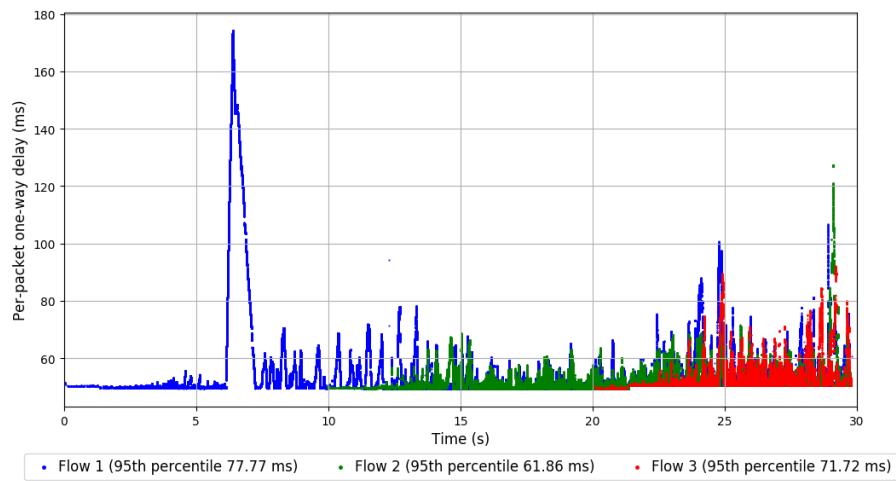
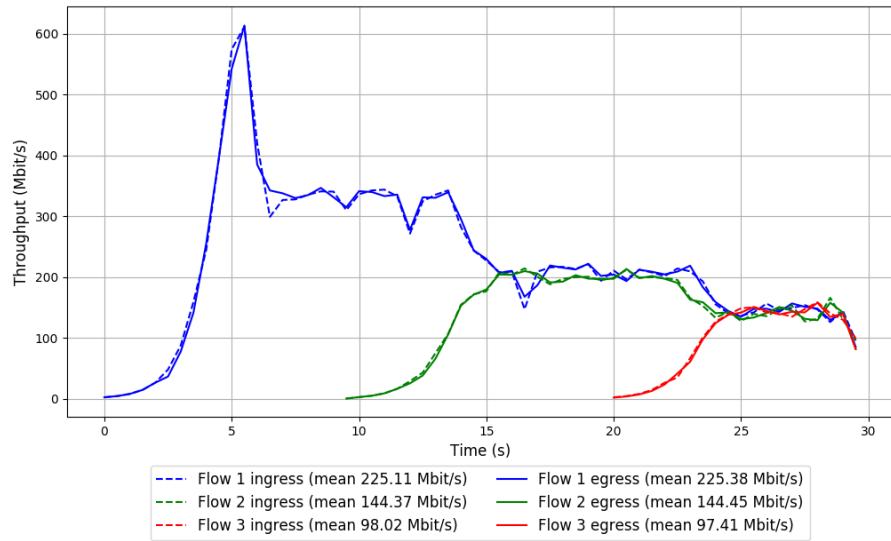
Run 7: Statistics of CalibratedKoho

Start at: 2017-09-08 05:32:00

End at: 2017-09-08 05:32:30

```
# Below is generated by plot.py at 2017-09-08 09:42:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 353.32 Mbit/s
95th percentile per-packet one-way delay: 70.346 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 225.38 Mbit/s
95th percentile per-packet one-way delay: 77.767 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 144.45 Mbit/s
95th percentile per-packet one-way delay: 61.861 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 97.41 Mbit/s
95th percentile per-packet one-way delay: 71.725 ms
Loss rate: 1.59%
```

Run 7: Report of CalibratedKoho — Data Link



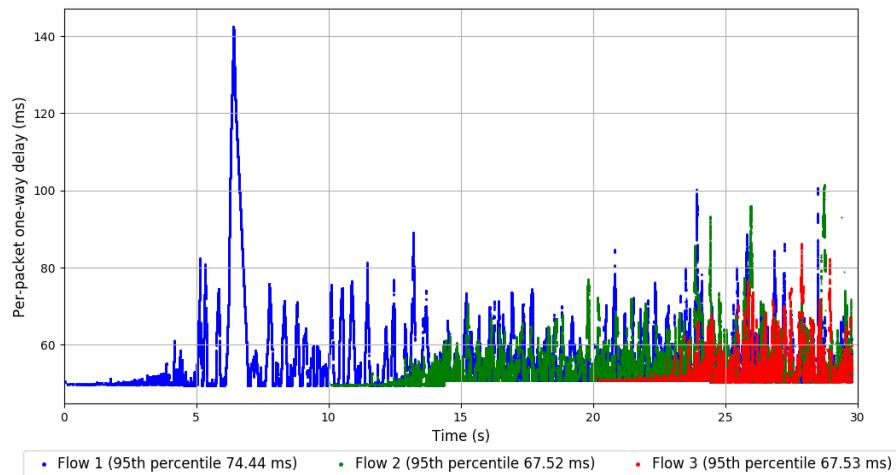
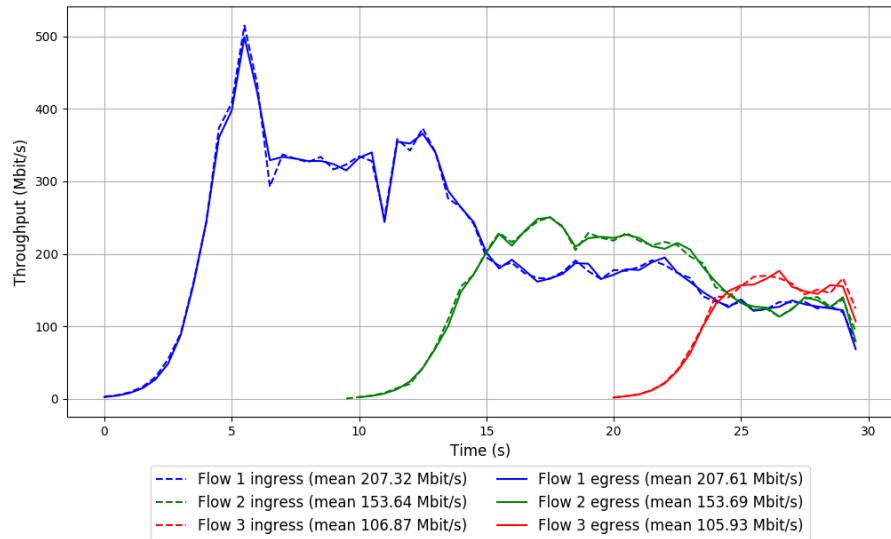
```
Run 8: Statistics of CalibratedKoho
```

```
Start at: 2017-09-08 05:44:07
```

```
End at: 2017-09-08 05:44:37
```

```
# Below is generated by plot.py at 2017-09-08 09:43:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 344.20 Mbit/s
95th percentile per-packet one-way delay: 71.745 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 207.61 Mbit/s
95th percentile per-packet one-way delay: 74.435 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 153.69 Mbit/s
95th percentile per-packet one-way delay: 67.524 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 105.93 Mbit/s
95th percentile per-packet one-way delay: 67.526 ms
Loss rate: 1.91%
```

Run 8: Report of CalibratedKoho — Data Link



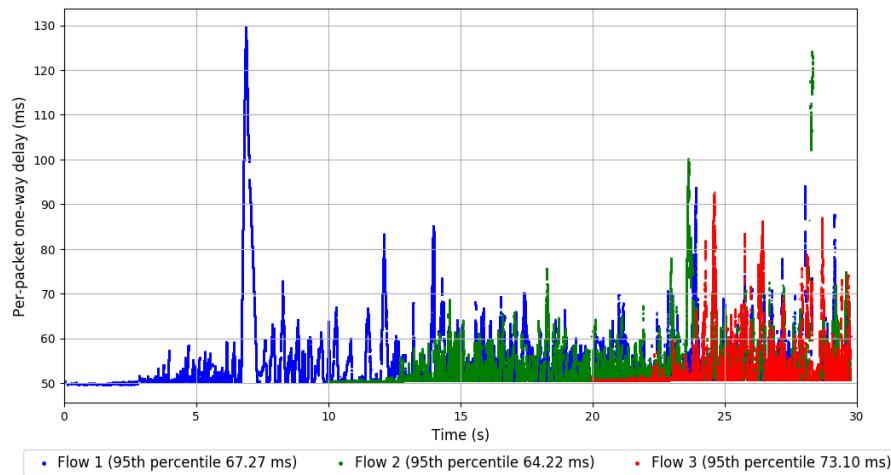
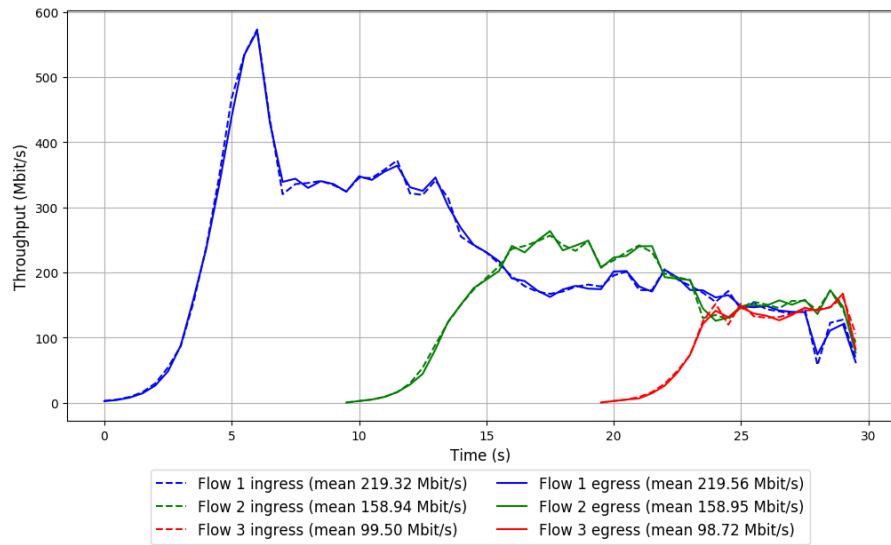
```
Run 9: Statistics of CalibratedKoho
```

```
Start at: 2017-09-08 05:56:19
```

```
End at: 2017-09-08 05:56:49
```

```
# Below is generated by plot.py at 2017-09-08 09:44:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 357.98 Mbit/s
95th percentile per-packet one-way delay: 67.123 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 219.56 Mbit/s
95th percentile per-packet one-way delay: 67.274 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 158.95 Mbit/s
95th percentile per-packet one-way delay: 64.215 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 98.72 Mbit/s
95th percentile per-packet one-way delay: 73.097 ms
Loss rate: 1.72%
```

### Run 9: Report of CalibratedKoho — Data Link



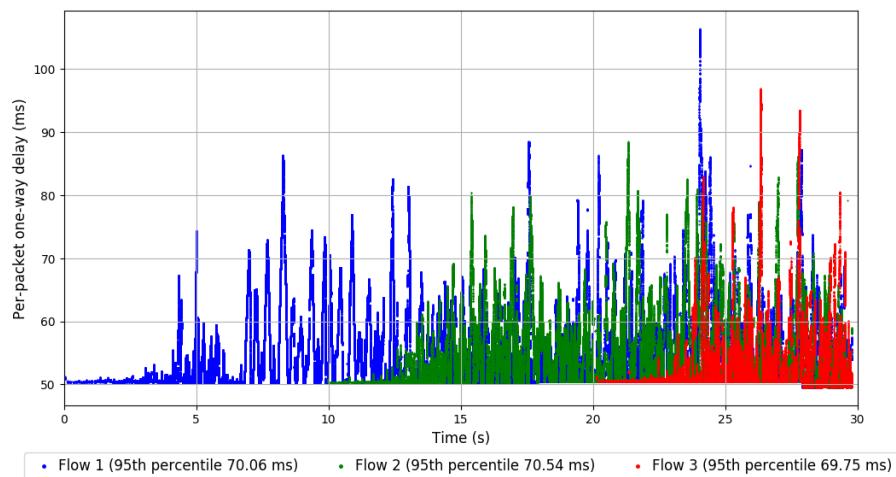
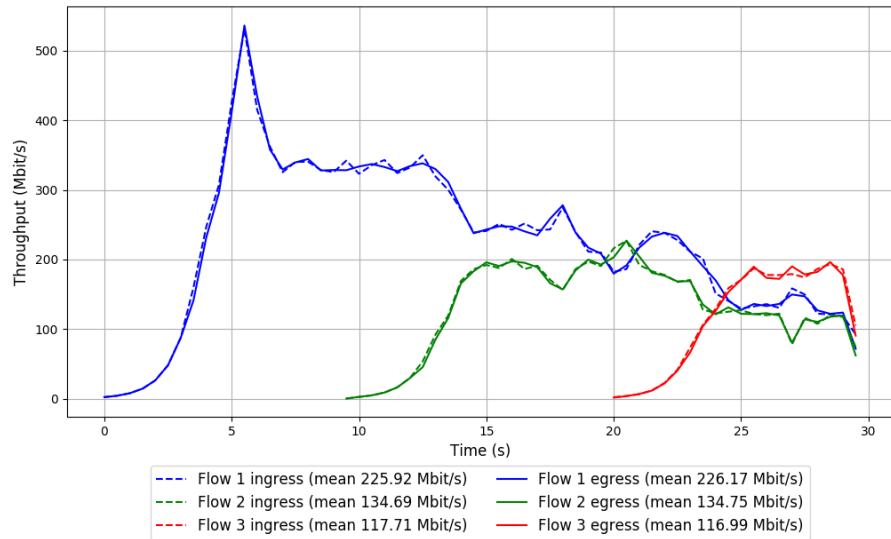
```
Run 10: Statistics of CalibratedKoho
```

```
Start at: 2017-09-08 06:08:34
```

```
End at: 2017-09-08 06:09:04
```

```
# Below is generated by plot.py at 2017-09-08 09:44:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 353.87 Mbit/s
95th percentile per-packet one-way delay: 70.102 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 226.17 Mbit/s
95th percentile per-packet one-way delay: 70.055 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 134.75 Mbit/s
95th percentile per-packet one-way delay: 70.541 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 116.99 Mbit/s
95th percentile per-packet one-way delay: 69.746 ms
Loss rate: 1.59%
```

Run 10: Report of CalibratedKoho — Data Link



Run 1: Statistics of Copa

Start at: 2017-09-08 04:20:24

End at: 2017-09-08 04:20:54

Run 1: Report of Copa — Data Link

Figure is missing

Figure is missing

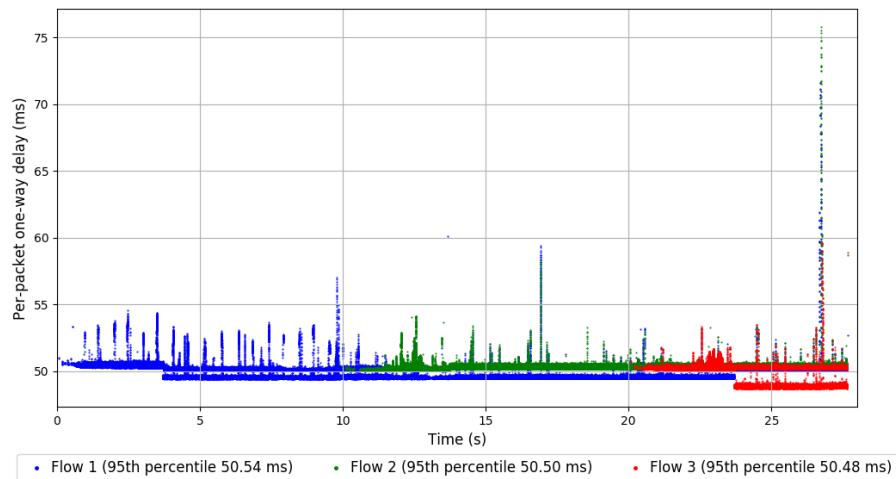
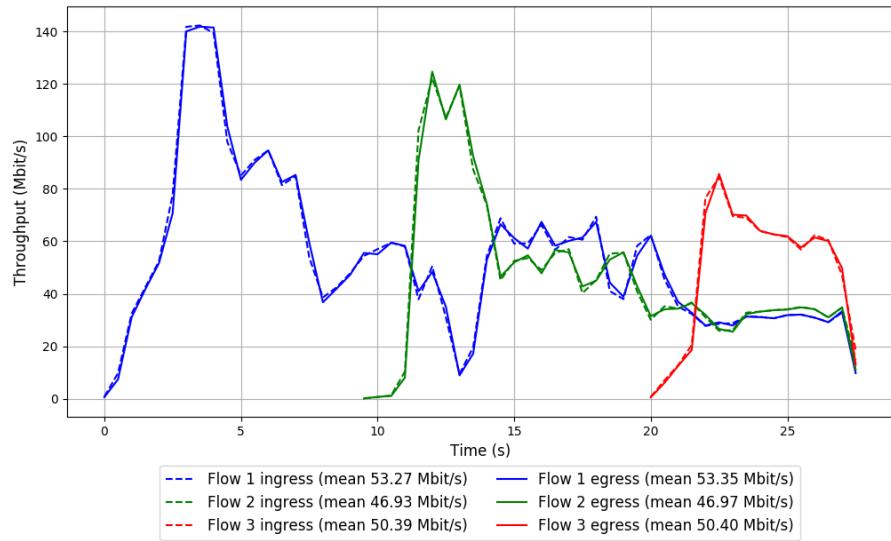
Run 2: Statistics of Copa

Start at: 2017-09-08 04:32:36

End at: 2017-09-08 04:33:06

```
# Below is generated by plot.py at 2017-09-08 09:44:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.43 Mbit/s
95th percentile per-packet one-way delay: 50.522 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 53.35 Mbit/s
95th percentile per-packet one-way delay: 50.537 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 46.97 Mbit/s
95th percentile per-packet one-way delay: 50.502 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 50.40 Mbit/s
95th percentile per-packet one-way delay: 50.475 ms
Loss rate: 1.21%
```

## Run 2: Report of Copa — Data Link

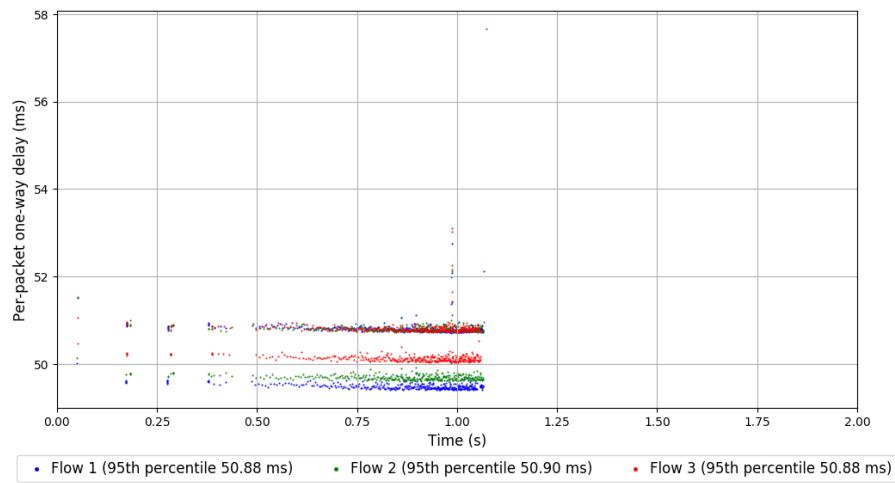
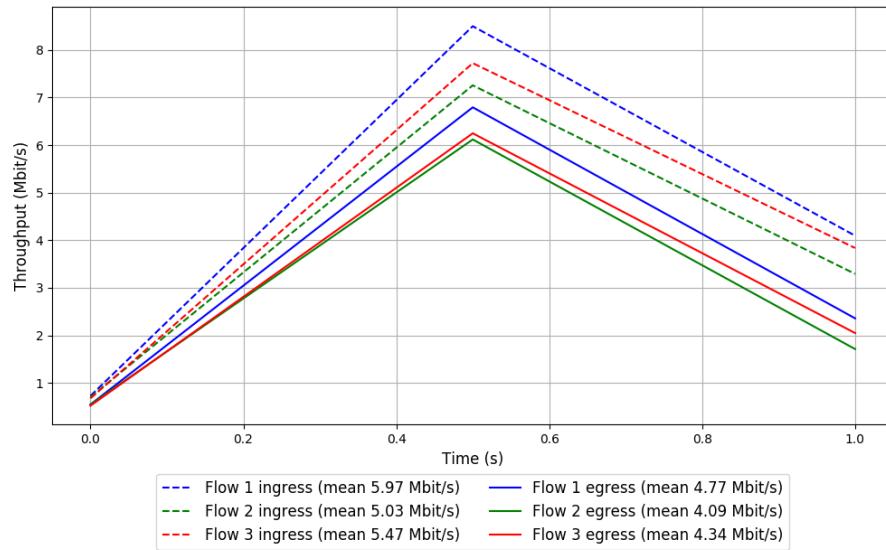


Run 3: Statistics of Copa

Start at: 2017-09-08 04:44:57

End at: 2017-09-08 04:45:27

### Run 3: Report of Copa — Data Link



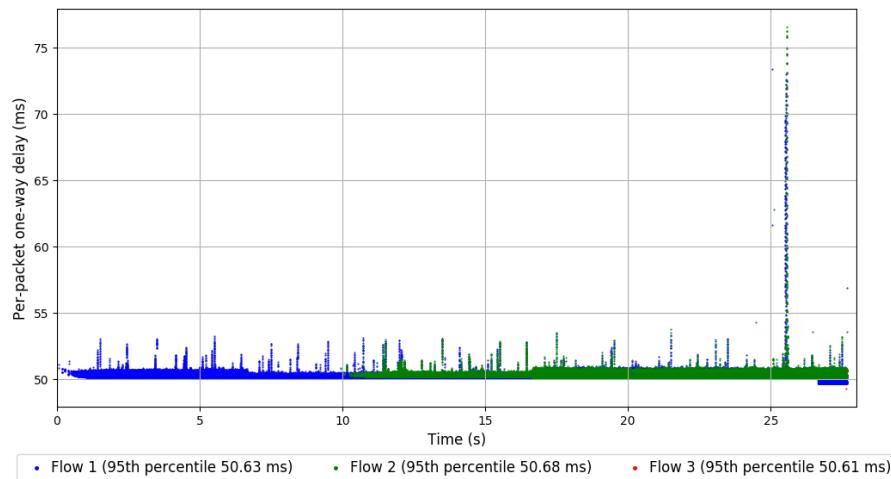
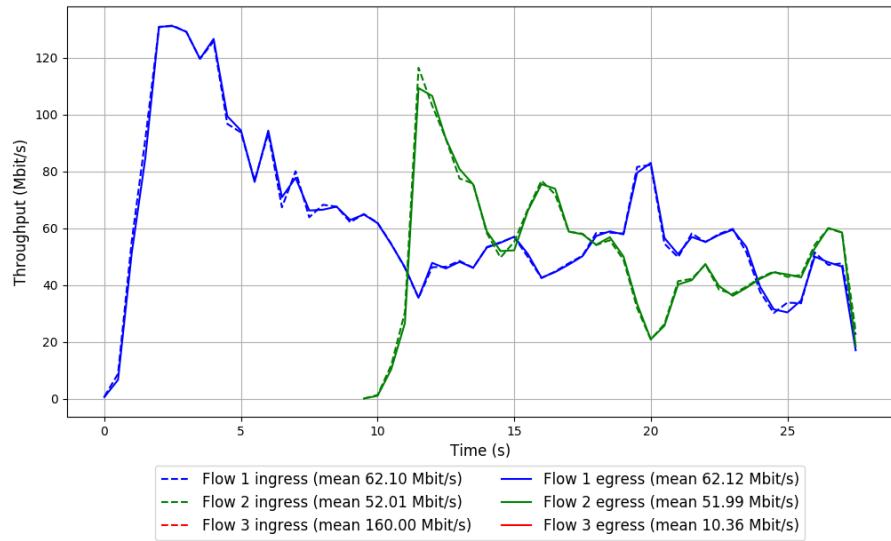
Run 4: Statistics of Copa

Start at: 2017-09-08 04:57:03

End at: 2017-09-08 04:57:33

```
# Below is generated by plot.py at 2017-09-08 09:45:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.51 Mbit/s
95th percentile per-packet one-way delay: 50.652 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 62.12 Mbit/s
95th percentile per-packet one-way delay: 50.634 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 51.99 Mbit/s
95th percentile per-packet one-way delay: 50.678 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 10.36 Mbit/s
95th percentile per-packet one-way delay: 50.610 ms
Loss rate: 0.00%
```

Run 4: Report of Copa — Data Link



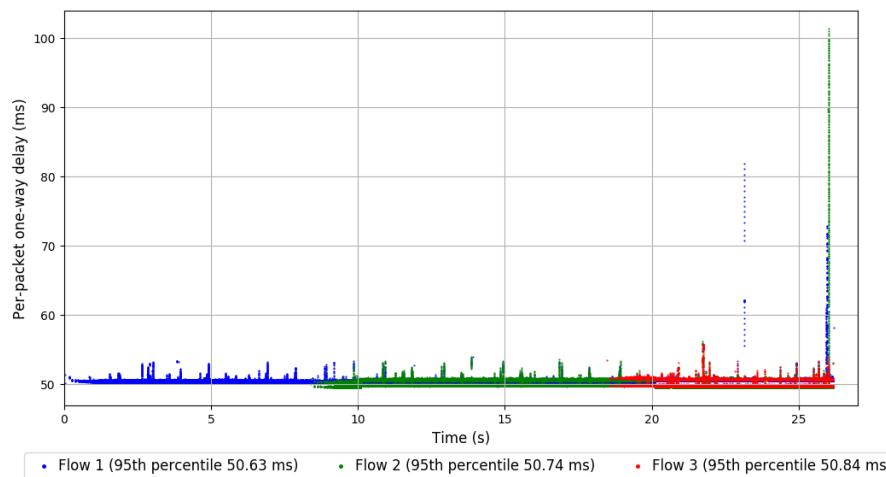
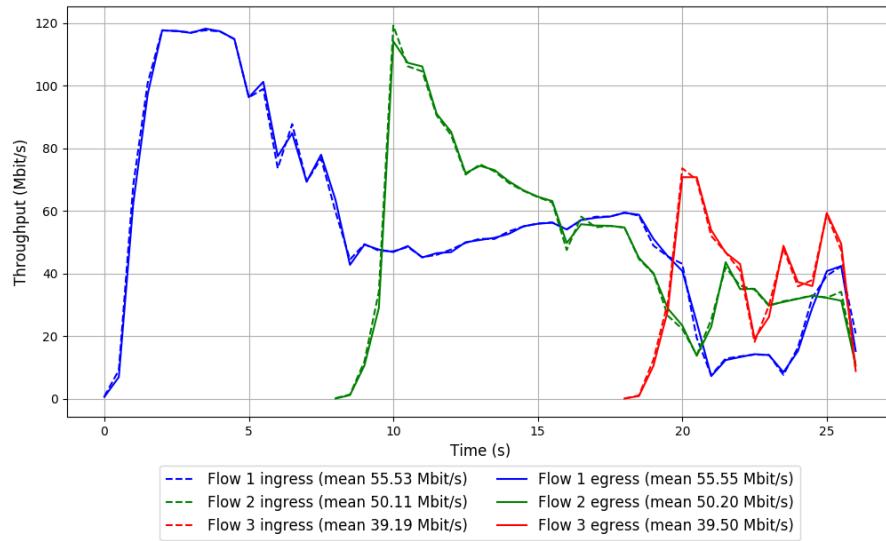
Run 5: Statistics of Copa

Start at: 2017-09-08 05:09:28

End at: 2017-09-08 05:09:58

```
# Below is generated by plot.py at 2017-09-08 09:45:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 101.36 Mbit/s
95th percentile per-packet one-way delay: 50.719 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 55.55 Mbit/s
95th percentile per-packet one-way delay: 50.628 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 50.20 Mbit/s
95th percentile per-packet one-way delay: 50.741 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 39.50 Mbit/s
95th percentile per-packet one-way delay: 50.838 ms
Loss rate: 0.49%
```

## Run 5: Report of Copa — Data Link

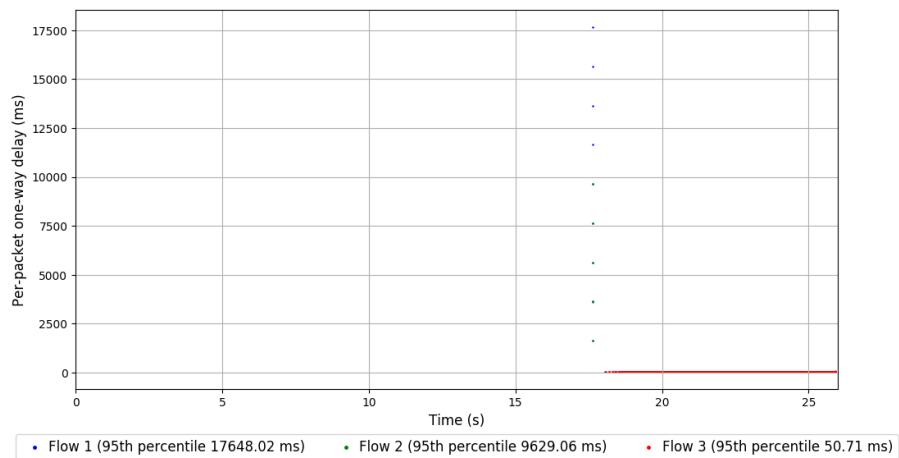
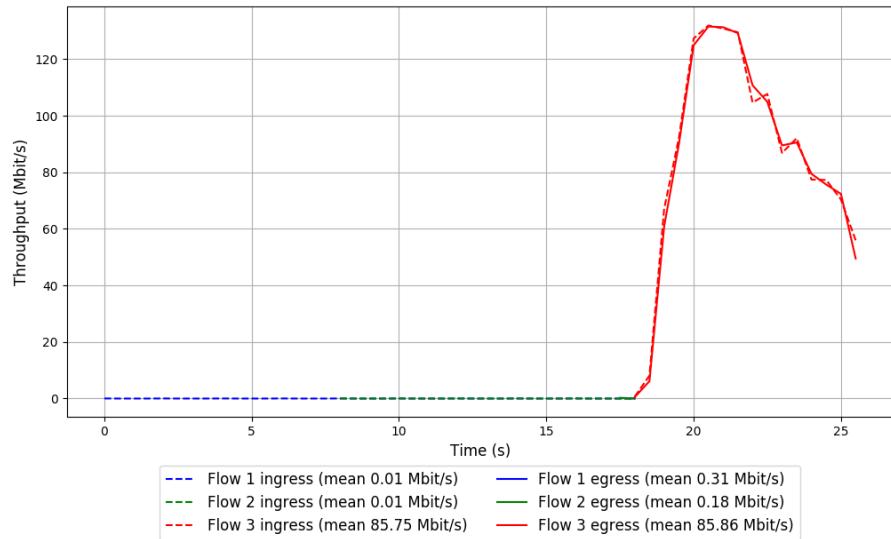


Run 6: Statistics of Copa

Start at: 2017-09-08 05:21:49

End at: 2017-09-08 05:22:19

## Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-09-08 05:33:56

End at: 2017-09-08 05:34:26

Run 7: Report of Copa — Data Link

Figure is missing

Figure is missing

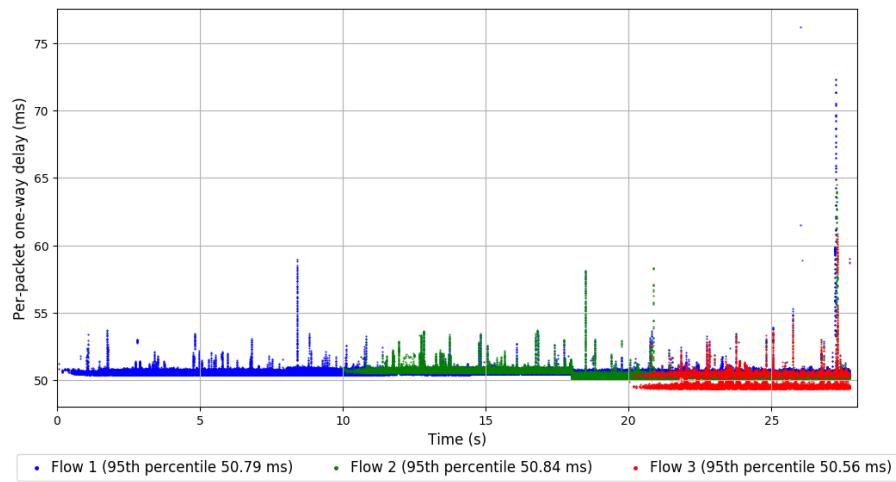
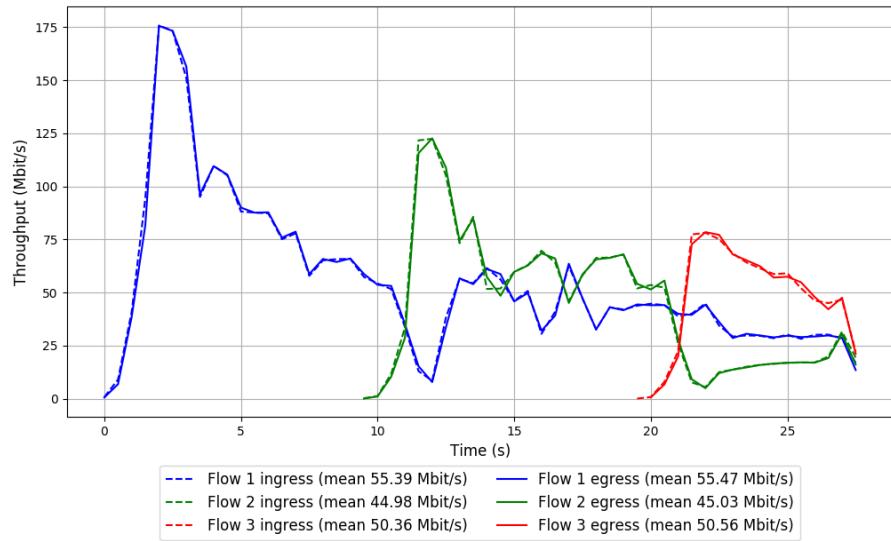
Run 8: Statistics of Copa

Start at: 2017-09-08 05:46:01

End at: 2017-09-08 05:46:31

```
# Below is generated by plot.py at 2017-09-08 09:45:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 98.51 Mbit/s
95th percentile per-packet one-way delay: 50.806 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 55.47 Mbit/s
95th percentile per-packet one-way delay: 50.787 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 45.03 Mbit/s
95th percentile per-packet one-way delay: 50.845 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 50.56 Mbit/s
95th percentile per-packet one-way delay: 50.561 ms
Loss rate: 0.81%
```

## Run 8: Report of Copa — Data Link

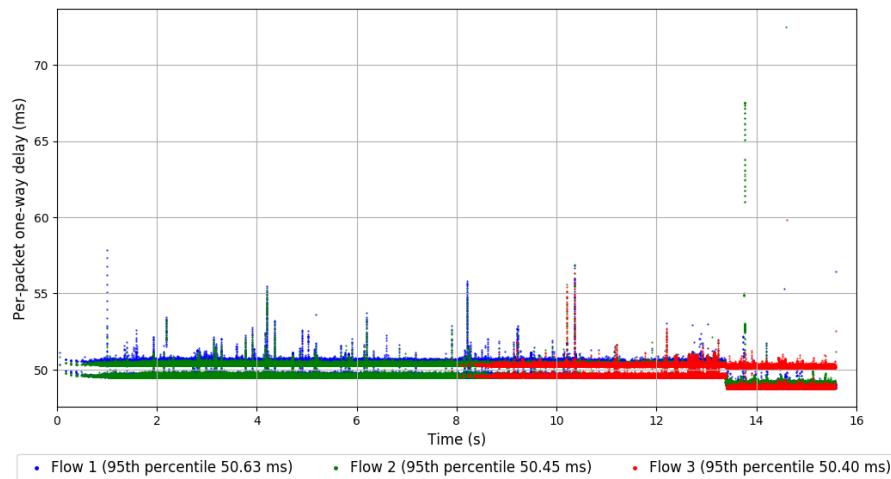
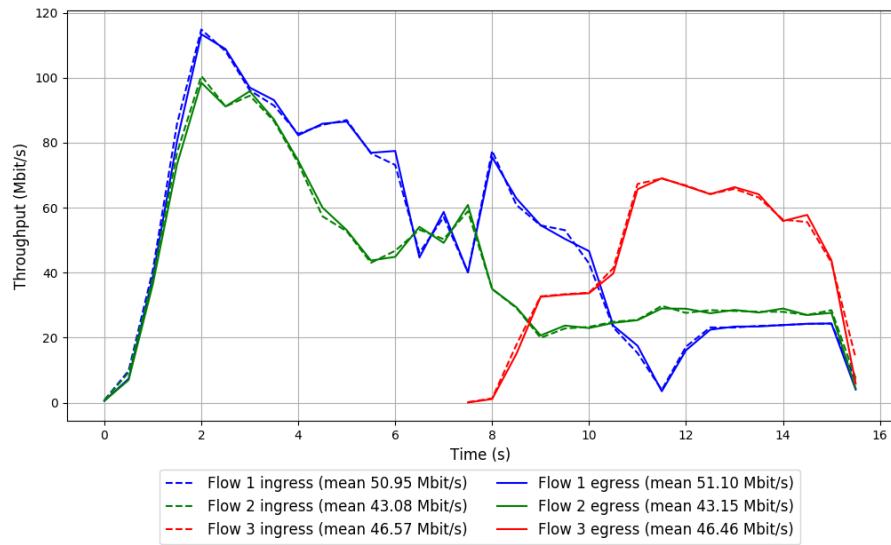


Run 9: Statistics of Copa

Start at: 2017-09-08 05:58:14

End at: 2017-09-08 05:58:44

## Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-09-08 06:10:30

End at: 2017-09-08 06:11:00

Run 10: Report of Copa — Data Link

Figure is missing

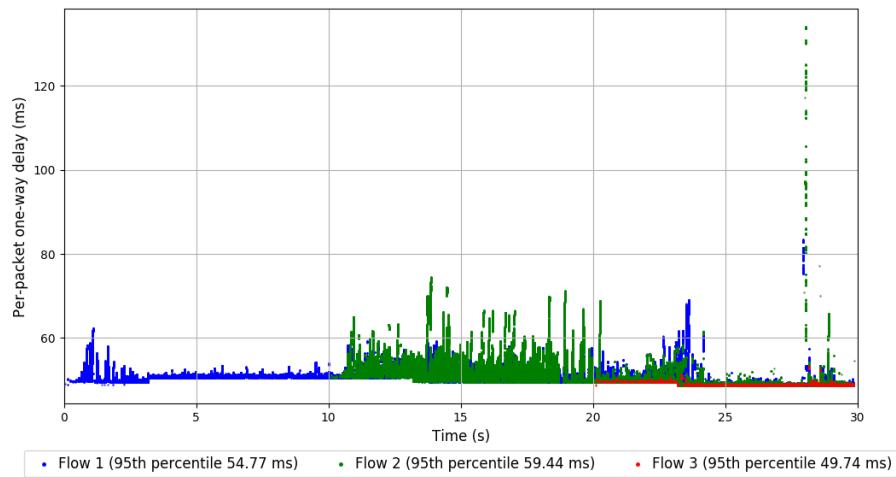
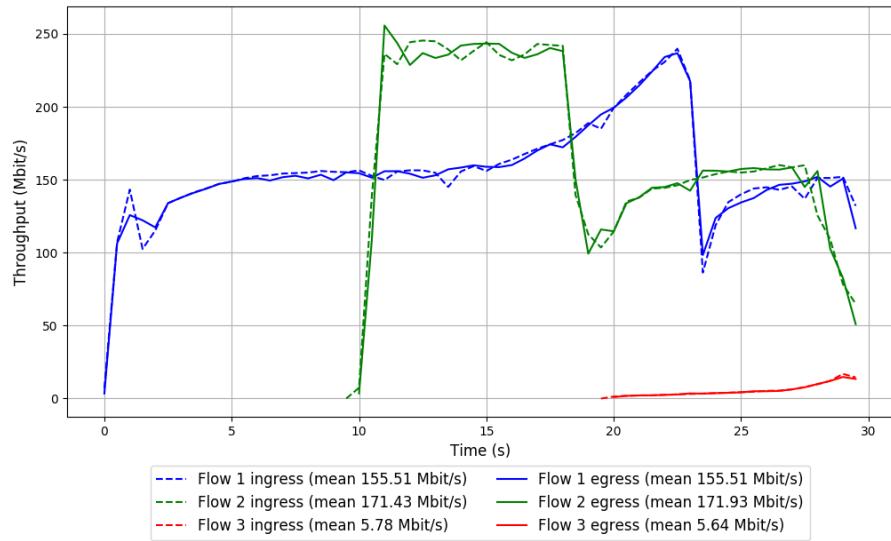
Figure is missing

```
Run 1: Statistics of TCP Cubic

Start at: 2017-09-08 04:15:08
End at: 2017-09-08 04:15:38

# Below is generated by plot.py at 2017-09-08 09:46:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 271.80 Mbit/s
95th percentile per-packet one-way delay: 57.032 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 155.51 Mbit/s
95th percentile per-packet one-way delay: 54.773 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 171.93 Mbit/s
95th percentile per-packet one-way delay: 59.444 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 5.64 Mbit/s
95th percentile per-packet one-way delay: 49.743 ms
Loss rate: 3.39%
```

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



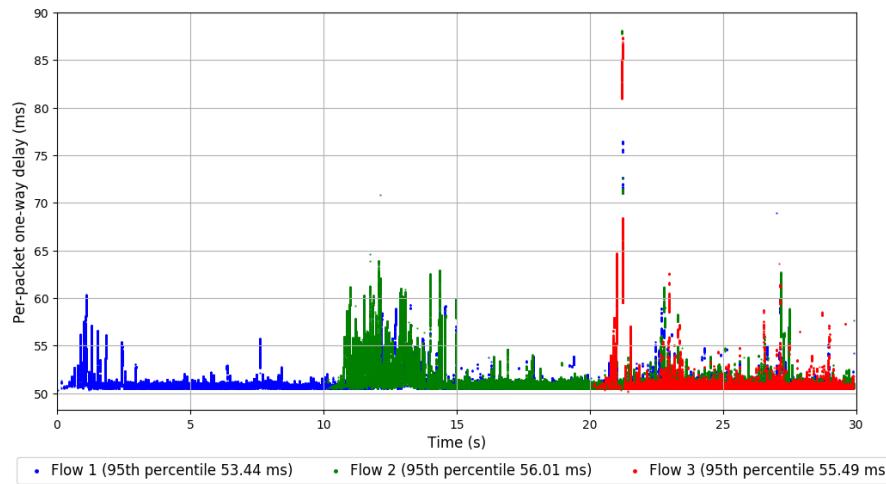
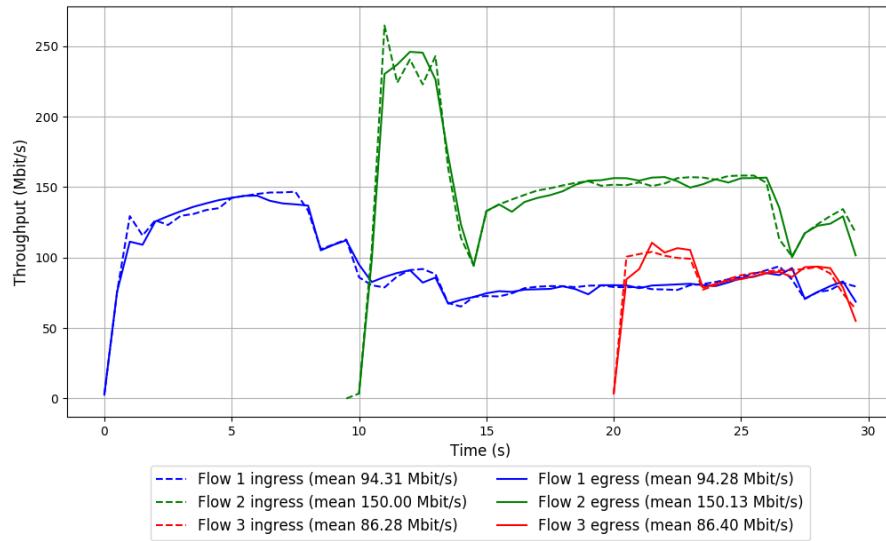
Run 2: Statistics of TCP Cubic

Start at: 2017-09-08 04:27:21

End at: 2017-09-08 04:27:51

```
# Below is generated by plot.py at 2017-09-08 09:46:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 222.60 Mbit/s
95th percentile per-packet one-way delay: 55.019 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 94.28 Mbit/s
95th percentile per-packet one-way delay: 53.443 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 150.13 Mbit/s
95th percentile per-packet one-way delay: 56.009 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 86.40 Mbit/s
95th percentile per-packet one-way delay: 55.486 ms
Loss rate: 0.85%
```

Run 2: Report of TCP Cubic — Data Link



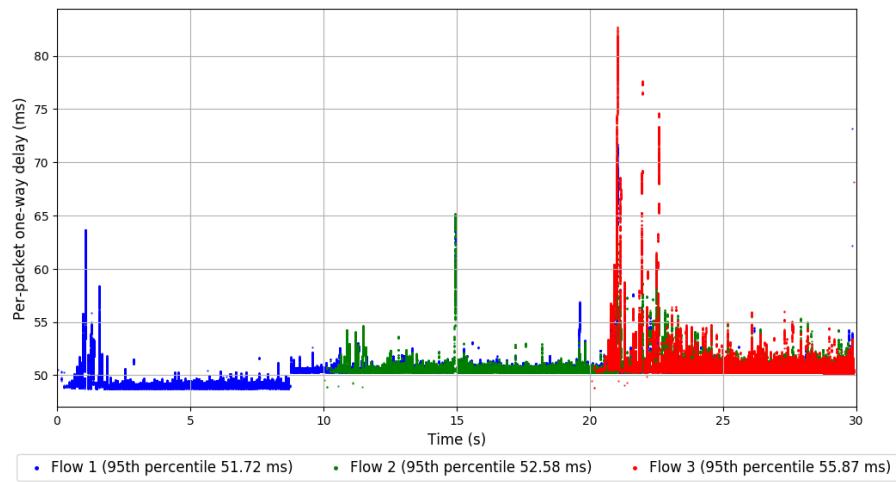
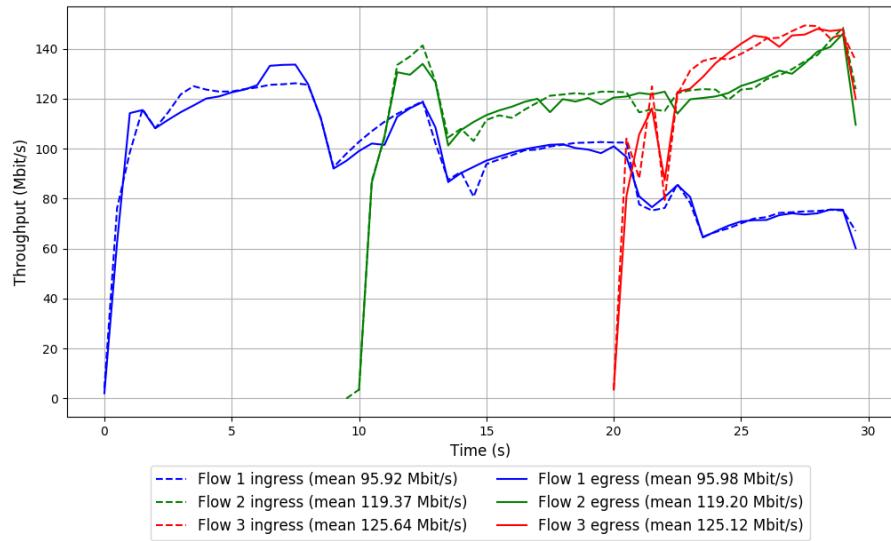
```
Run 3: Statistics of TCP Cubic
```

```
Start at: 2017-09-08 04:39:43
```

```
End at: 2017-09-08 04:40:13
```

```
# Below is generated by plot.py at 2017-09-08 09:47:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 216.35 Mbit/s
95th percentile per-packet one-way delay: 52.871 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 95.98 Mbit/s
95th percentile per-packet one-way delay: 51.717 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 119.20 Mbit/s
95th percentile per-packet one-way delay: 52.579 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 125.12 Mbit/s
95th percentile per-packet one-way delay: 55.870 ms
Loss rate: 1.21%
```

Run 3: Report of TCP Cubic — Data Link



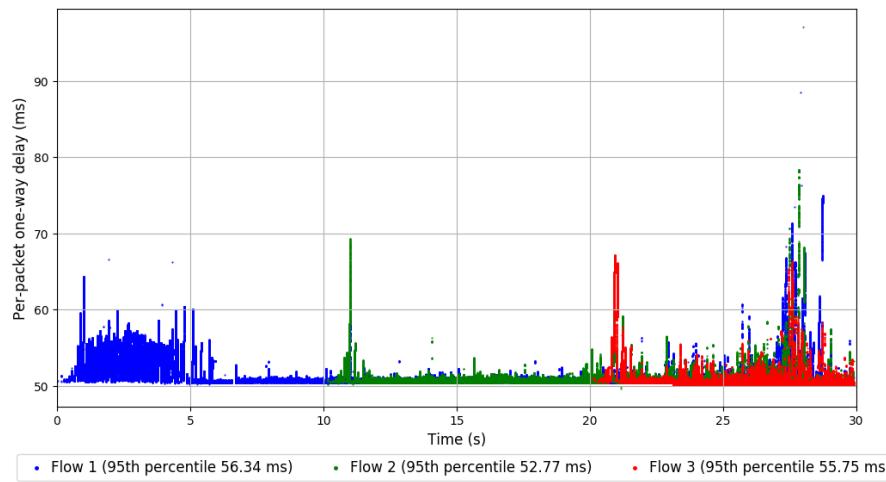
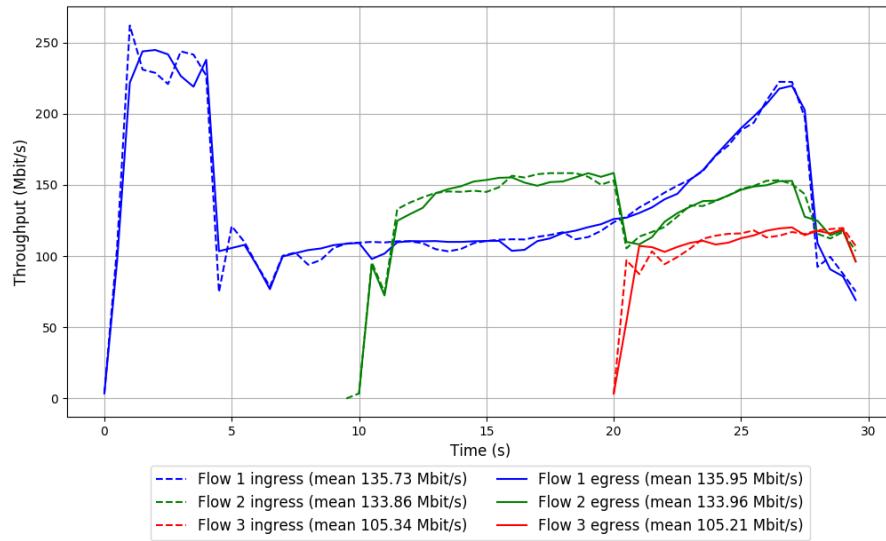
Run 4: Statistics of TCP Cubic

Start at: 2017-09-08 04:51:48

End at: 2017-09-08 04:52:18

```
# Below is generated by plot.py at 2017-09-08 09:47:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 259.63 Mbit/s
95th percentile per-packet one-way delay: 55.706 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 135.95 Mbit/s
95th percentile per-packet one-way delay: 56.342 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 133.96 Mbit/s
95th percentile per-packet one-way delay: 52.770 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 105.21 Mbit/s
95th percentile per-packet one-way delay: 55.746 ms
Loss rate: 1.15%
```

Run 4: Report of TCP Cubic — Data Link

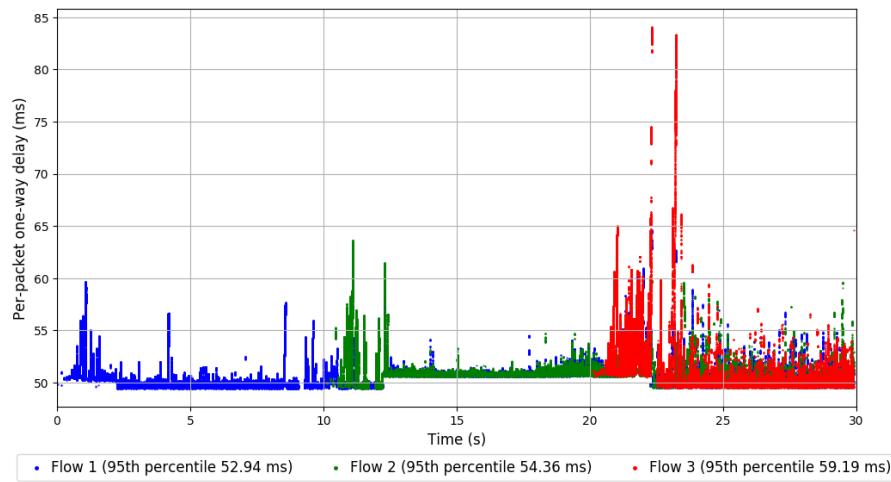
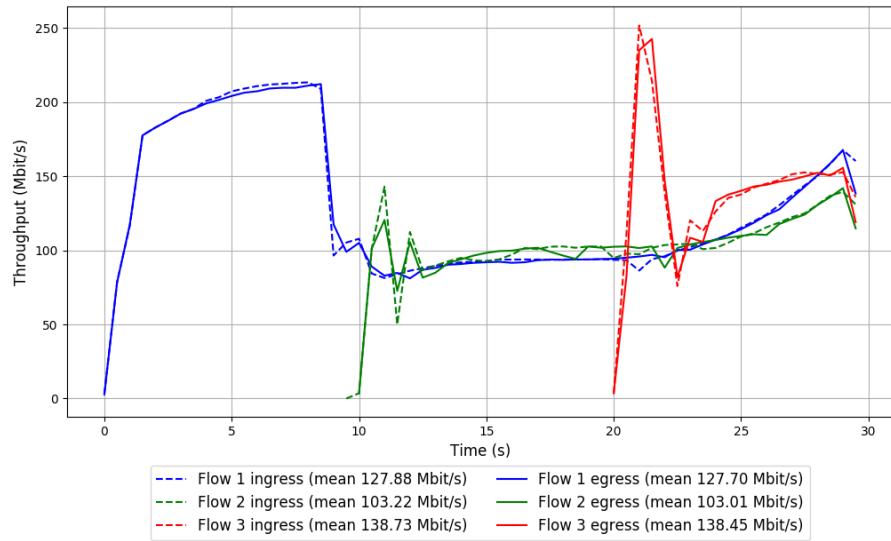


```
Run 5: Statistics of TCP Cubic

Start at: 2017-09-08 05:04:09
End at: 2017-09-08 05:04:39

# Below is generated by plot.py at 2017-09-08 09:48:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 241.80 Mbit/s
95th percentile per-packet one-way delay: 54.982 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 127.70 Mbit/s
95th percentile per-packet one-way delay: 52.941 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 103.01 Mbit/s
95th percentile per-packet one-way delay: 54.361 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 138.45 Mbit/s
95th percentile per-packet one-way delay: 59.186 ms
Loss rate: 1.13%
```

Run 5: Report of TCP Cubic — Data Link



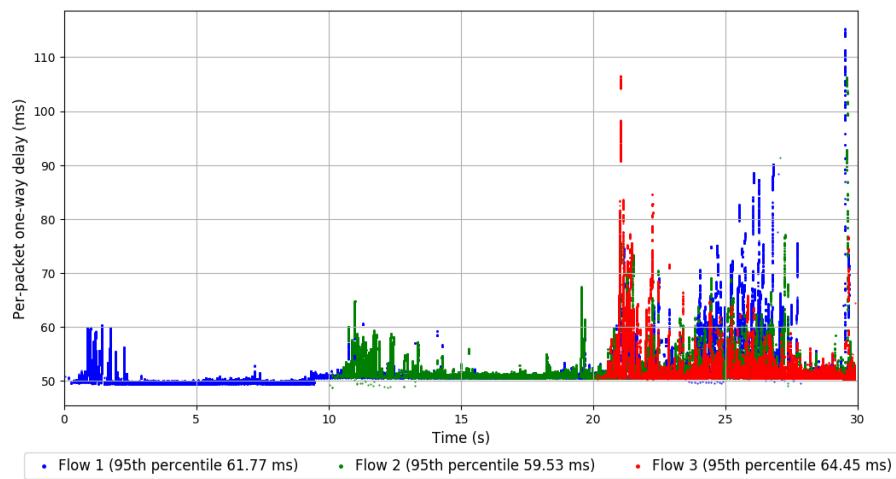
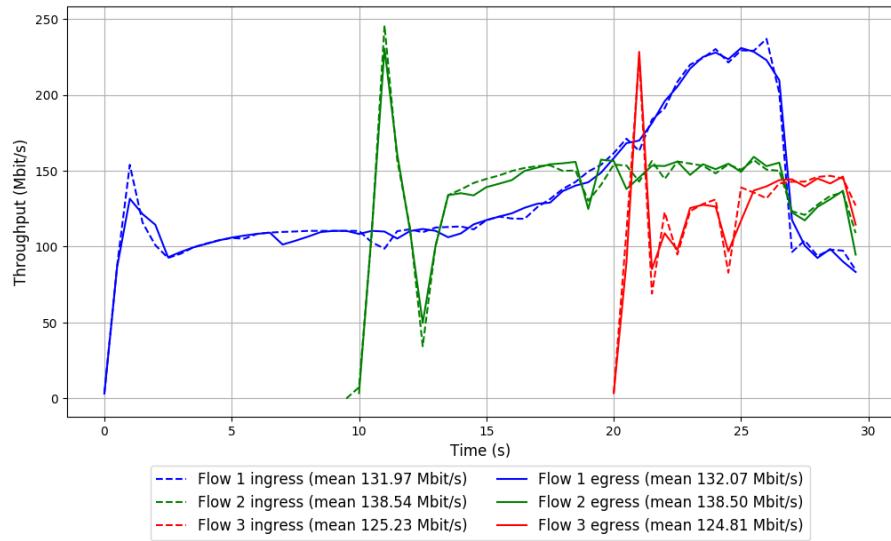
Run 6: Statistics of TCP Cubic

Start at: 2017-09-08 05:16:32

End at: 2017-09-08 05:17:02

```
# Below is generated by plot.py at 2017-09-08 09:48:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 265.22 Mbit/s
95th percentile per-packet one-way delay: 61.478 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 132.07 Mbit/s
95th percentile per-packet one-way delay: 61.775 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 138.50 Mbit/s
95th percentile per-packet one-way delay: 59.526 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 124.81 Mbit/s
95th percentile per-packet one-way delay: 64.449 ms
Loss rate: 1.19%
```

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

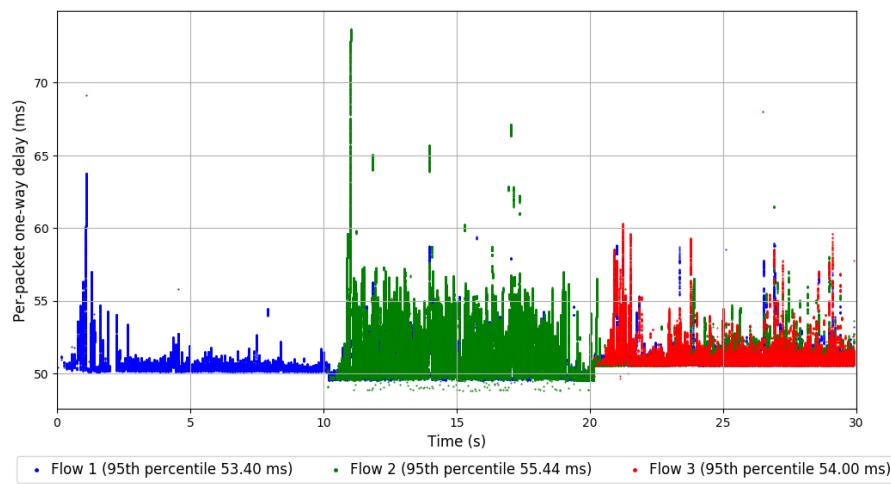
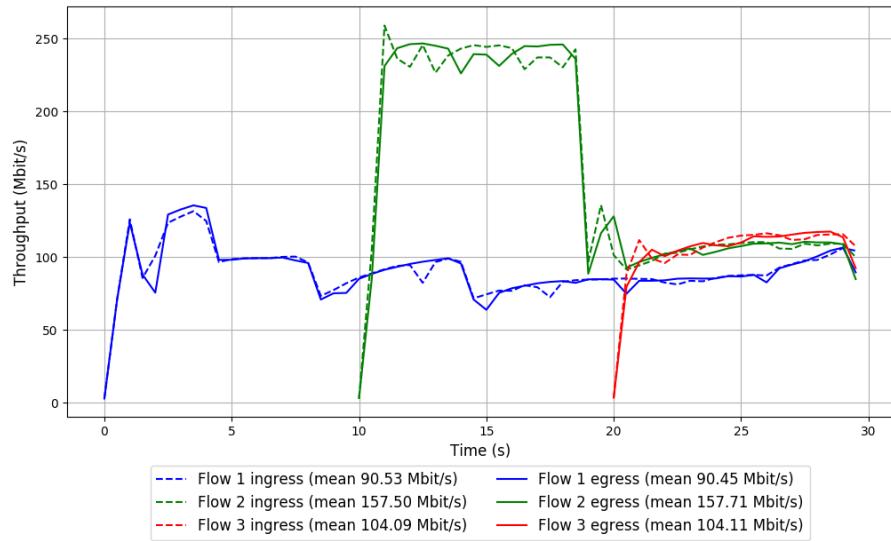


```
Run 7: Statistics of TCP Cubic

Start at: 2017-09-08 05:28:41
End at: 2017-09-08 05:29:11

# Below is generated by plot.py at 2017-09-08 09:48:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 229.51 Mbit/s
95th percentile per-packet one-way delay: 54.847 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 90.45 Mbit/s
95th percentile per-packet one-way delay: 53.401 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 157.71 Mbit/s
95th percentile per-packet one-way delay: 55.435 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 104.11 Mbit/s
95th percentile per-packet one-way delay: 54.002 ms
Loss rate: 1.13%
```

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

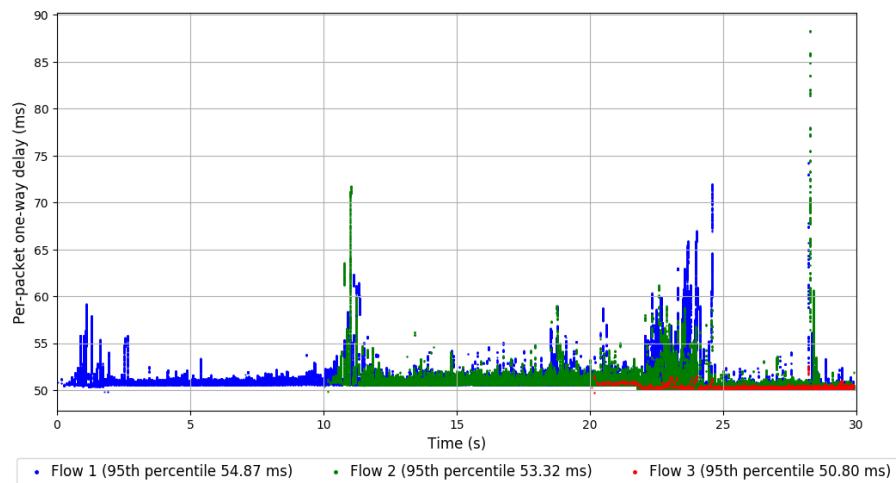
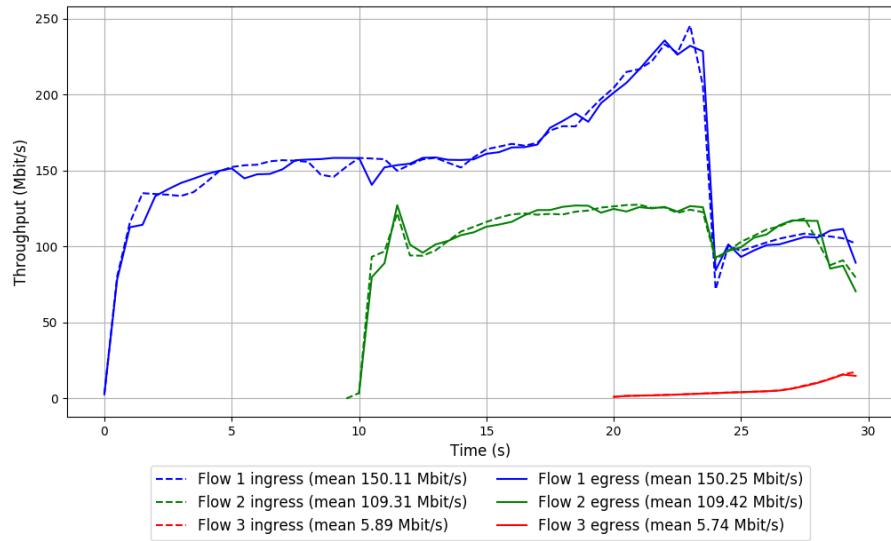


```
Run 8: Statistics of TCP Cubic

Start at: 2017-09-08 05:40:50
End at: 2017-09-08 05:41:20

# Below is generated by plot.py at 2017-09-08 09:49:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 224.81 Mbit/s
95th percentile per-packet one-way delay: 54.289 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 150.25 Mbit/s
95th percentile per-packet one-way delay: 54.868 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 109.42 Mbit/s
95th percentile per-packet one-way delay: 53.318 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 5.74 Mbit/s
95th percentile per-packet one-way delay: 50.797 ms
Loss rate: 3.56%
```

Run 8: Report of TCP Cubic — Data Link



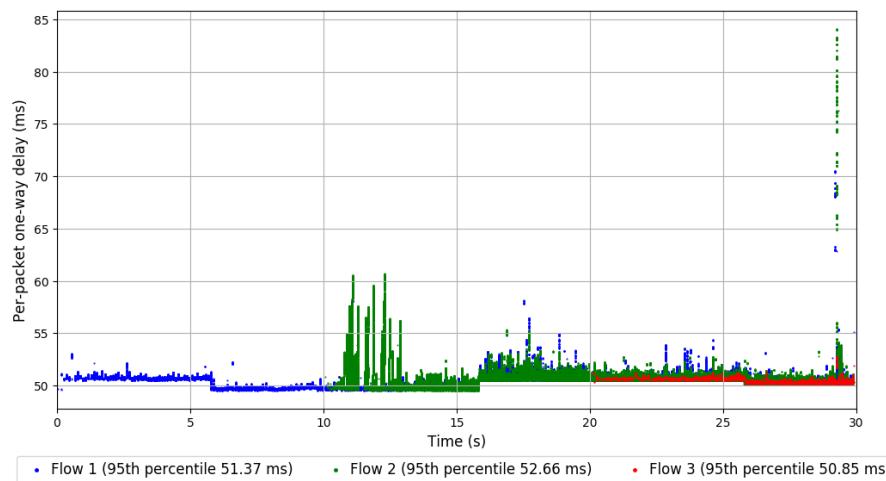
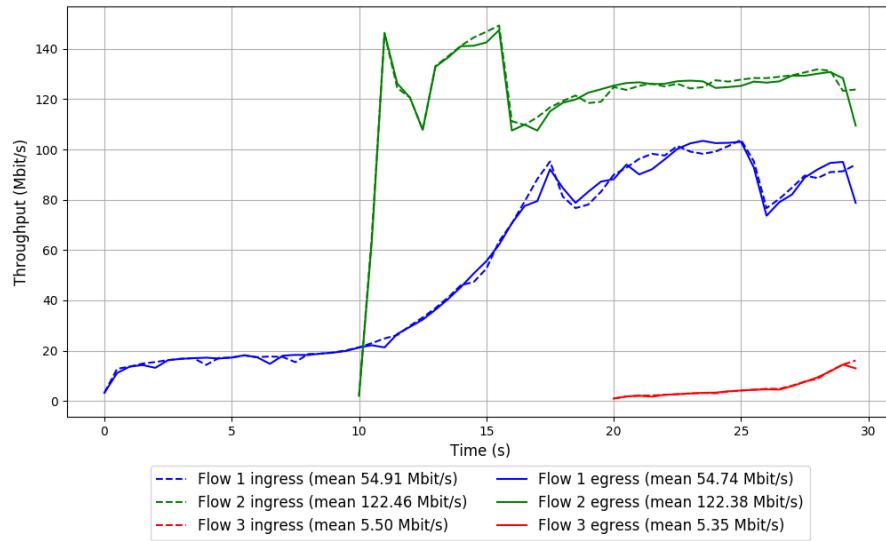
Run 9: Statistics of TCP Cubic

Start at: 2017-09-08 05:53:06

End at: 2017-09-08 05:53:36

```
# Below is generated by plot.py at 2017-09-08 09:49:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 137.83 Mbit/s
95th percentile per-packet one-way delay: 52.014 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 54.74 Mbit/s
95th percentile per-packet one-way delay: 51.365 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 122.38 Mbit/s
95th percentile per-packet one-way delay: 52.664 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 5.35 Mbit/s
95th percentile per-packet one-way delay: 50.851 ms
Loss rate: 3.50%
```

Run 9: Report of TCP Cubic — Data Link



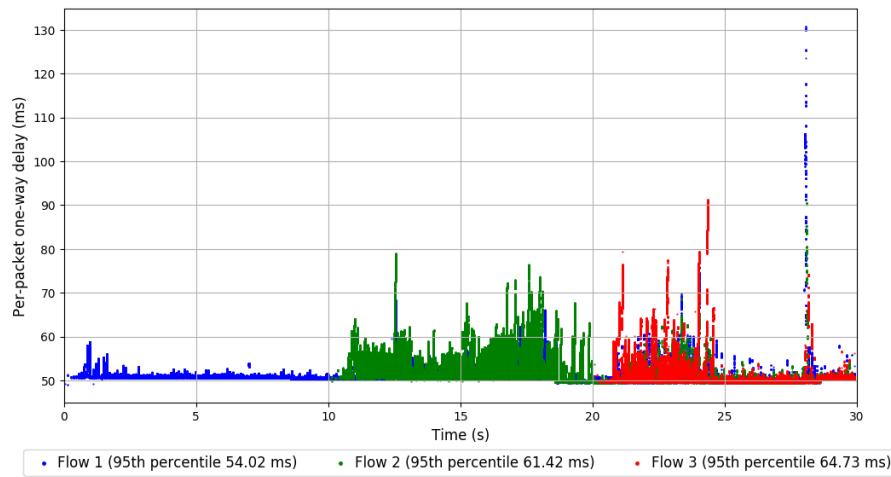
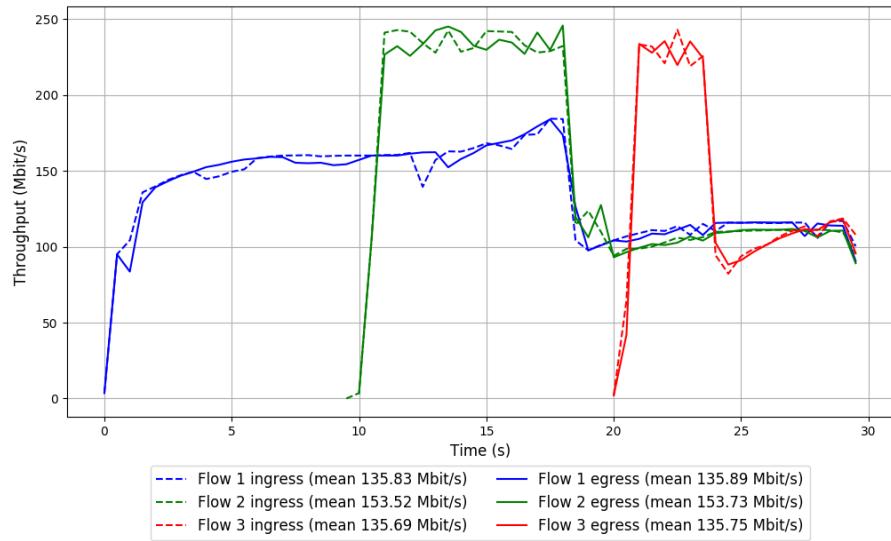
Run 10: Statistics of TCP Cubic

Start at: 2017-09-08 06:05:13

End at: 2017-09-08 06:05:43

```
# Below is generated by plot.py at 2017-09-08 09:50:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 282.59 Mbit/s
95th percentile per-packet one-way delay: 59.933 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 135.89 Mbit/s
95th percentile per-packet one-way delay: 54.022 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 153.73 Mbit/s
95th percentile per-packet one-way delay: 61.425 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 135.75 Mbit/s
95th percentile per-packet one-way delay: 64.733 ms
Loss rate: 0.89%
```

Run 10: Report of TCP Cubic — Data Link



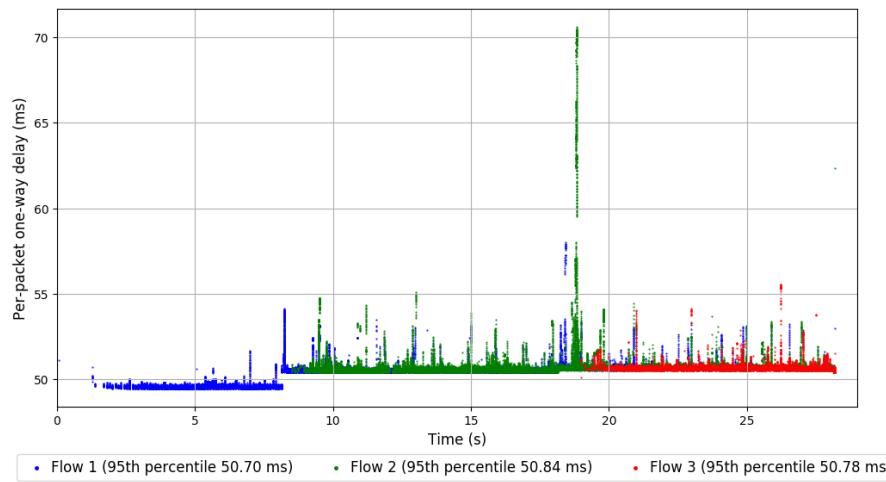
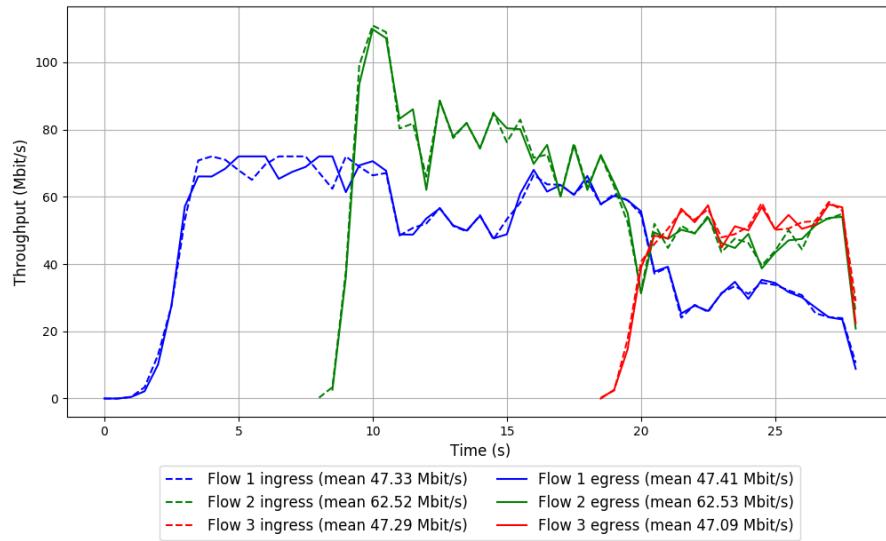
Run 1: Statistics of Indigo

Start at: 2017-09-08 04:12:02

End at: 2017-09-08 04:12:32

```
# Below is generated by plot.py at 2017-09-08 09:50:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 106.48 Mbit/s
95th percentile per-packet one-way delay: 50.765 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 47.41 Mbit/s
95th percentile per-packet one-way delay: 50.696 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 62.53 Mbit/s
95th percentile per-packet one-way delay: 50.844 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 47.09 Mbit/s
95th percentile per-packet one-way delay: 50.785 ms
Loss rate: 1.39%
```

Run 1: Report of Indigo — Data Link



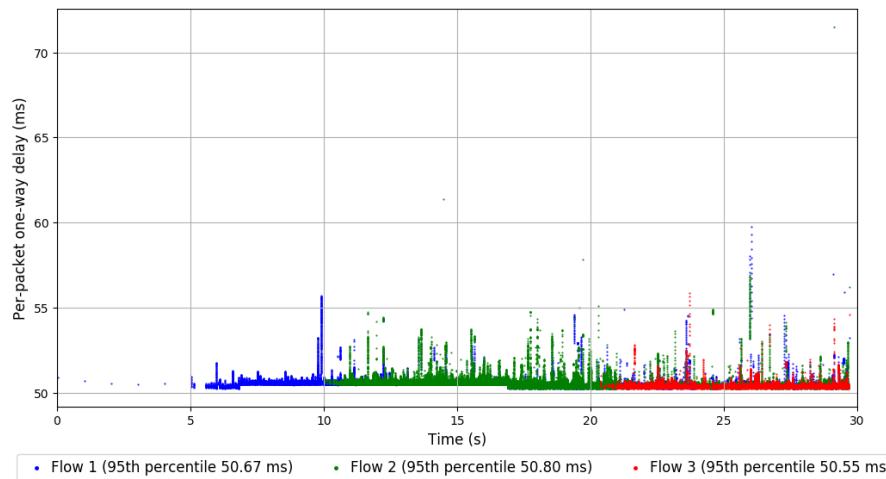
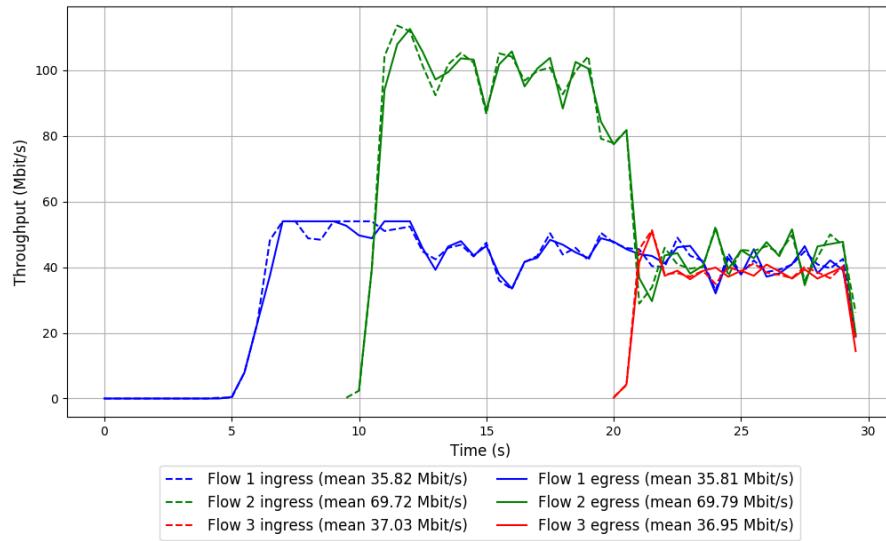
Run 2: Statistics of Indigo

Start at: 2017-09-08 04:24:15

End at: 2017-09-08 04:24:45

```
# Below is generated by plot.py at 2017-09-08 09:50:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.69 Mbit/s
95th percentile per-packet one-way delay: 50.730 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 35.81 Mbit/s
95th percentile per-packet one-way delay: 50.674 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 69.79 Mbit/s
95th percentile per-packet one-way delay: 50.802 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 36.95 Mbit/s
95th percentile per-packet one-way delay: 50.551 ms
Loss rate: 1.21%
```

Run 2: Report of Indigo — Data Link



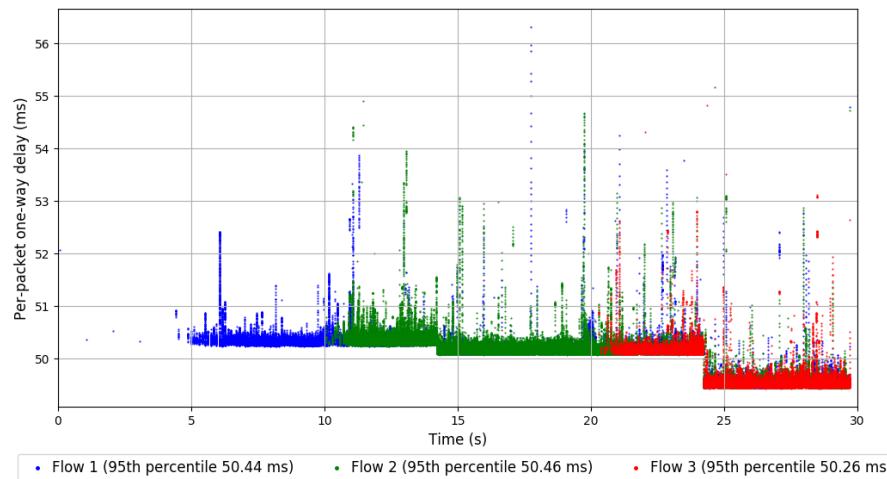
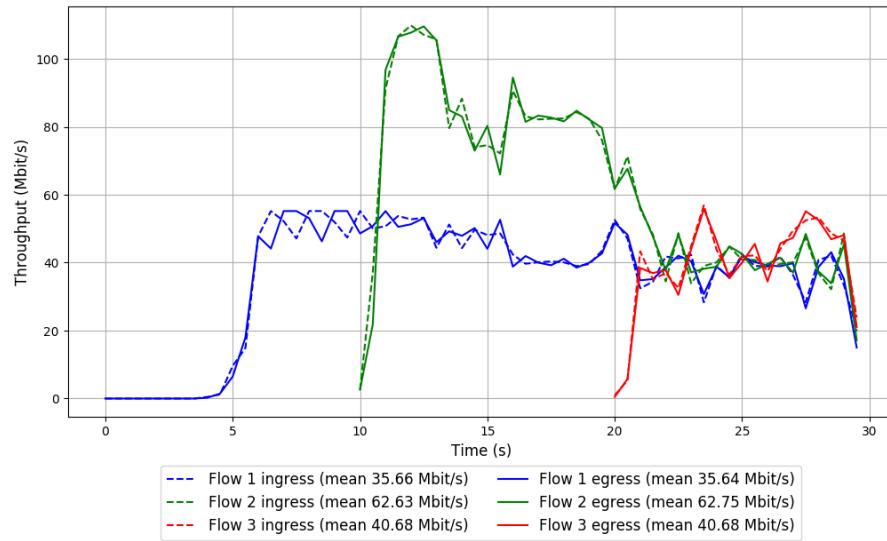
Run 3: Statistics of Indigo

Start at: 2017-09-08 04:36:37

End at: 2017-09-08 04:37:07

```
# Below is generated by plot.py at 2017-09-08 09:50:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.15 Mbit/s
95th percentile per-packet one-way delay: 50.436 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 35.64 Mbit/s
95th percentile per-packet one-way delay: 50.436 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 62.75 Mbit/s
95th percentile per-packet one-way delay: 50.458 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 40.68 Mbit/s
95th percentile per-packet one-way delay: 50.255 ms
Loss rate: 0.97%
```

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



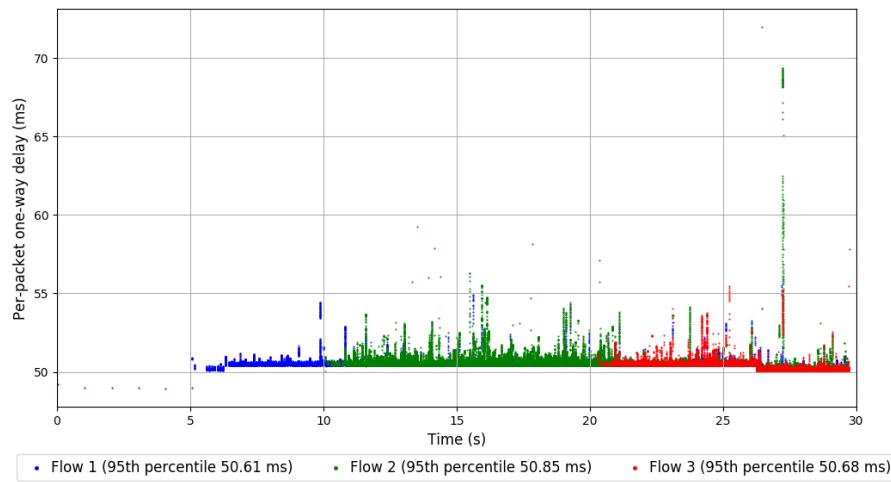
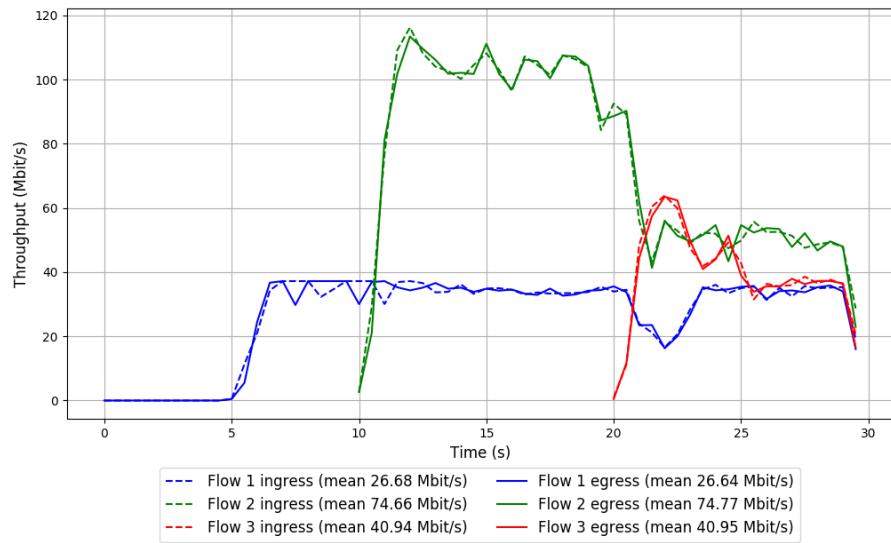
Run 4: Statistics of Indigo

Start at: 2017-09-08 04:48:45

End at: 2017-09-08 04:49:15

```
# Below is generated by plot.py at 2017-09-08 09:50:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.16 Mbit/s
95th percentile per-packet one-way delay: 50.755 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 26.64 Mbit/s
95th percentile per-packet one-way delay: 50.613 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 74.77 Mbit/s
95th percentile per-packet one-way delay: 50.849 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 40.95 Mbit/s
95th percentile per-packet one-way delay: 50.678 ms
Loss rate: 1.01%
```

Run 4: Report of Indigo — Data Link



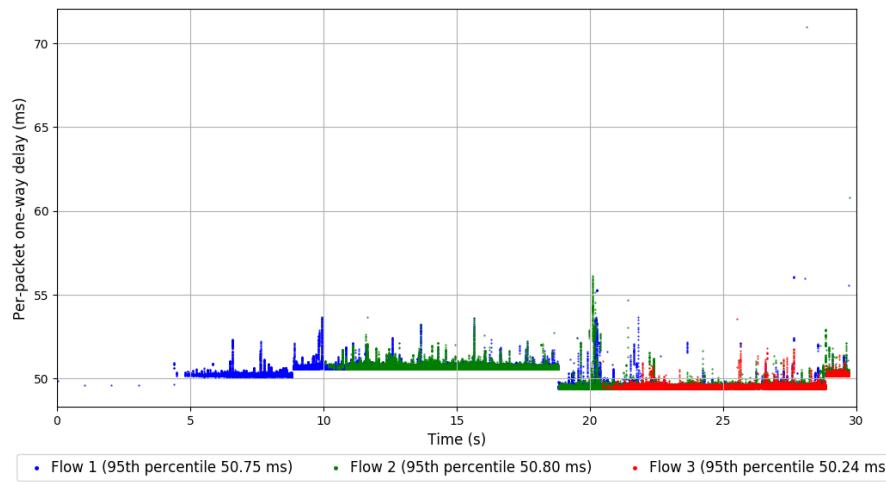
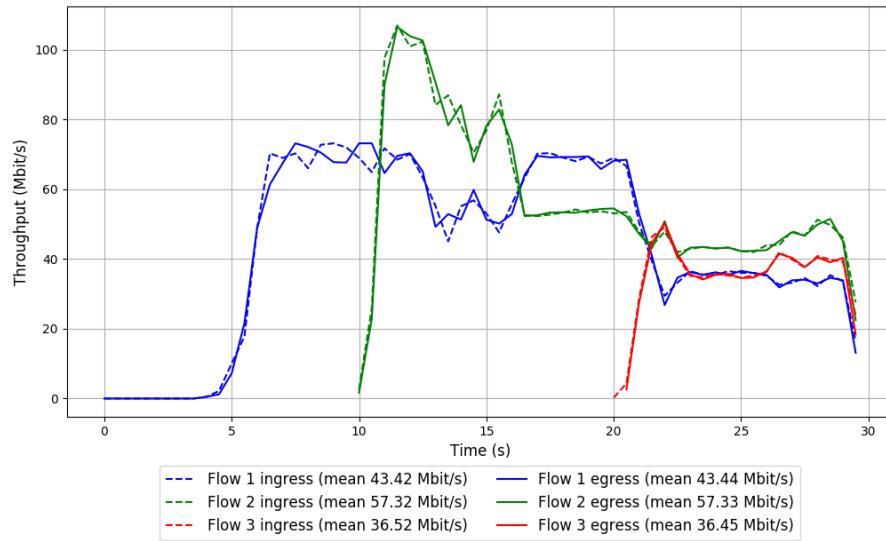
Run 5: Statistics of Indigo

Start at: 2017-09-08 05:01:03

End at: 2017-09-08 05:01:33

```
# Below is generated by plot.py at 2017-09-08 09:50:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.70 Mbit/s
95th percentile per-packet one-way delay: 50.764 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 43.44 Mbit/s
95th percentile per-packet one-way delay: 50.750 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 57.33 Mbit/s
95th percentile per-packet one-way delay: 50.804 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 36.45 Mbit/s
95th percentile per-packet one-way delay: 50.244 ms
Loss rate: 1.31%
```

Run 5: Report of Indigo — Data Link



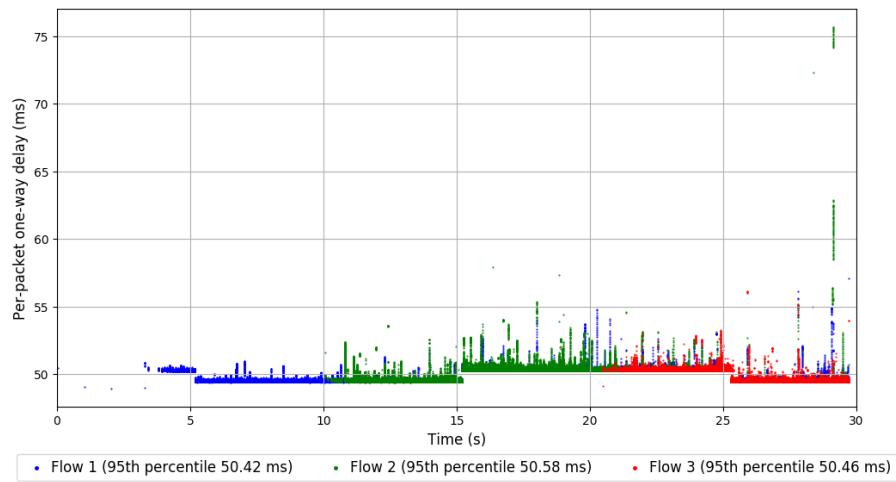
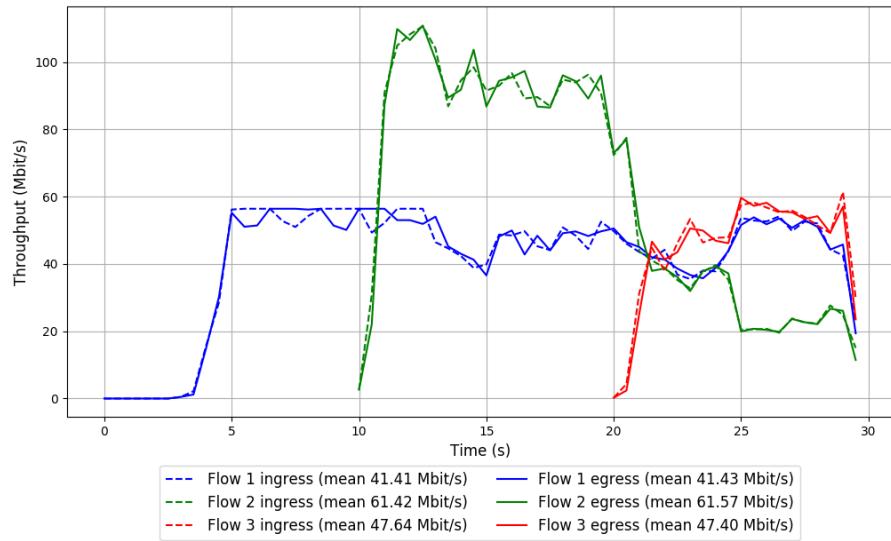
Run 6: Statistics of Indigo

Start at: 2017-09-08 05:13:26

End at: 2017-09-08 05:13:56

```
# Below is generated by plot.py at 2017-09-08 09:50:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.98 Mbit/s
95th percentile per-packet one-way delay: 50.483 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 41.43 Mbit/s
95th percentile per-packet one-way delay: 50.417 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 61.57 Mbit/s
95th percentile per-packet one-way delay: 50.580 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 47.40 Mbit/s
95th percentile per-packet one-way delay: 50.458 ms
Loss rate: 1.53%
```

Run 6: Report of Indigo — Data Link



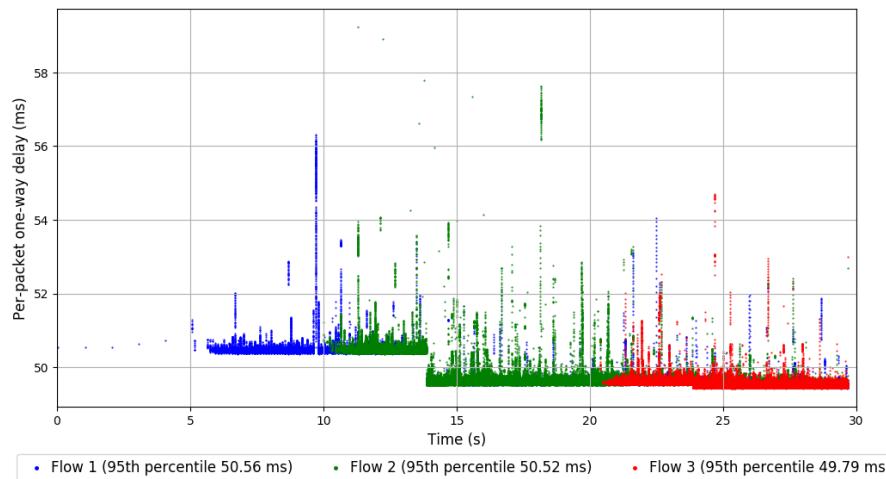
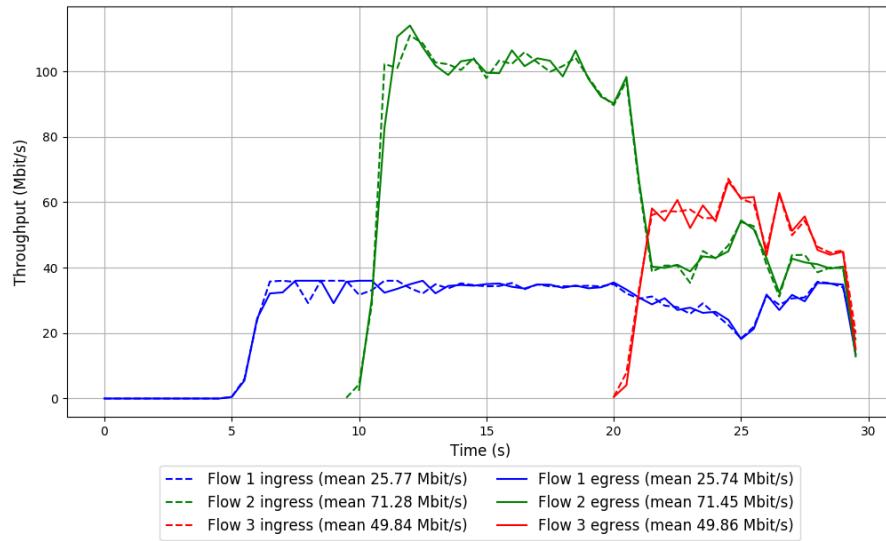
Run 7: Statistics of Indigo

Start at: 2017-09-08 05:25:37

End at: 2017-09-08 05:26:07

```
# Below is generated by plot.py at 2017-09-08 09:51:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.81 Mbit/s
95th percentile per-packet one-way delay: 50.521 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 25.74 Mbit/s
95th percentile per-packet one-way delay: 50.563 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 71.45 Mbit/s
95th percentile per-packet one-way delay: 50.522 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 49.86 Mbit/s
95th percentile per-packet one-way delay: 49.789 ms
Loss rate: 1.04%
```

Run 7: Report of Indigo — Data Link



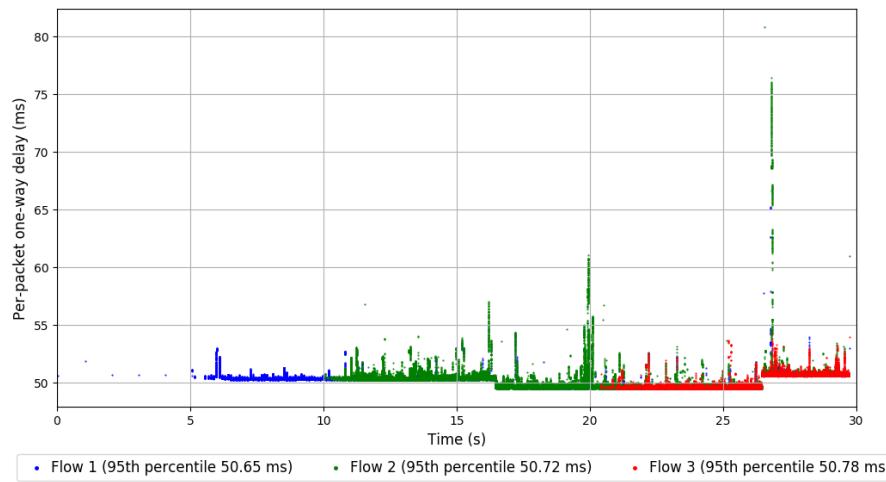
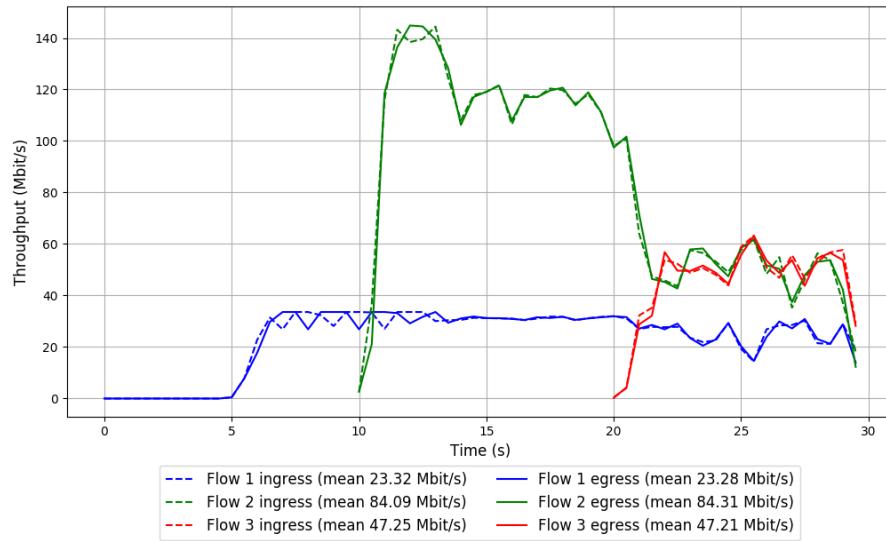
Run 8: Statistics of Indigo

Start at: 2017-09-08 05:37:45

End at: 2017-09-08 05:38:15

```
# Below is generated by plot.py at 2017-09-08 09:51:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.93 Mbit/s
95th percentile per-packet one-way delay: 50.714 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 23.28 Mbit/s
95th percentile per-packet one-way delay: 50.648 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 84.31 Mbit/s
95th percentile per-packet one-way delay: 50.723 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 47.21 Mbit/s
95th percentile per-packet one-way delay: 50.777 ms
Loss rate: 1.17%
```

## Run 8: Report of Indigo — Data Link



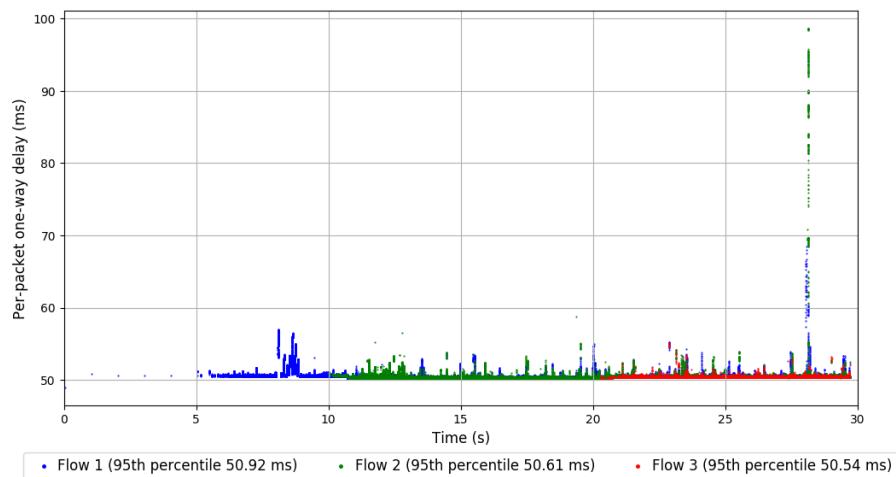
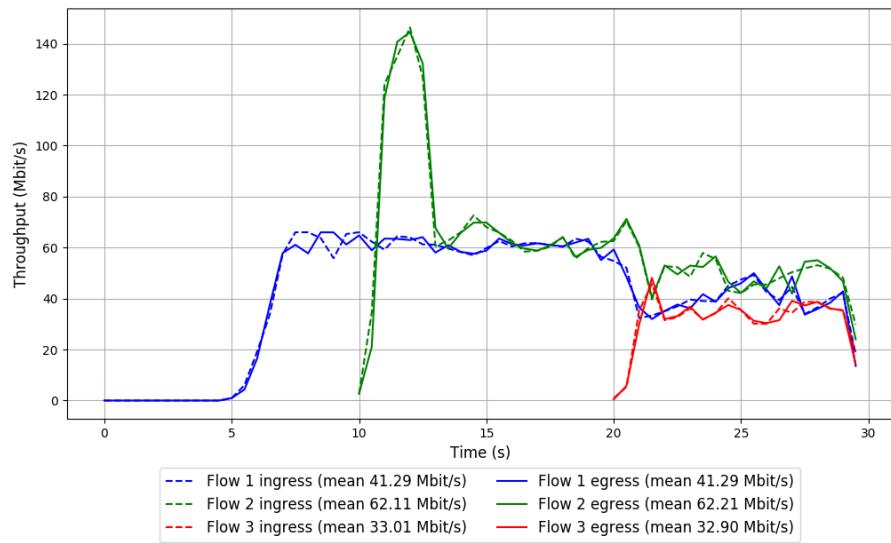
Run 9: Statistics of Indigo

Start at: 2017-09-08 05:50:01

End at: 2017-09-08 05:50:31

```
# Below is generated by plot.py at 2017-09-08 09:51:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.95 Mbit/s
95th percentile per-packet one-way delay: 50.692 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 41.29 Mbit/s
95th percentile per-packet one-way delay: 50.921 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 62.21 Mbit/s
95th percentile per-packet one-way delay: 50.612 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 32.90 Mbit/s
95th percentile per-packet one-way delay: 50.544 ms
Loss rate: 1.33%
```

Run 9: Report of Indigo — Data Link



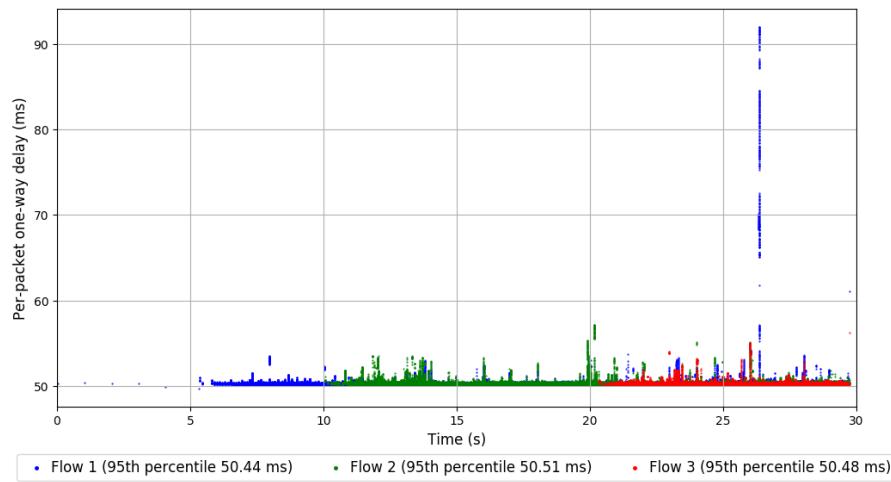
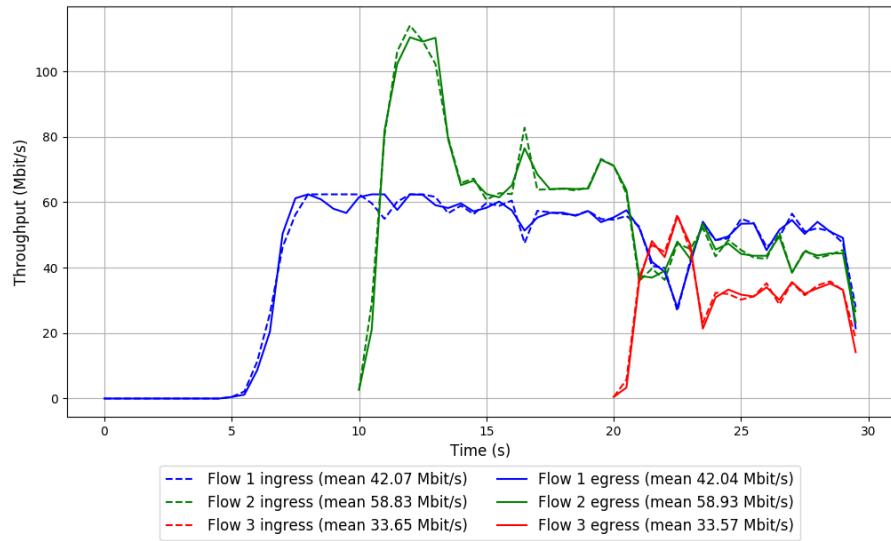
Run 10: Statistics of Indigo

Start at: 2017-09-08 06:02:08

End at: 2017-09-08 06:02:38

```
# Below is generated by plot.py at 2017-09-08 09:51:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.68 Mbit/s
95th percentile per-packet one-way delay: 50.475 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 42.04 Mbit/s
95th percentile per-packet one-way delay: 50.443 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 58.93 Mbit/s
95th percentile per-packet one-way delay: 50.510 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 33.57 Mbit/s
95th percentile per-packet one-way delay: 50.483 ms
Loss rate: 1.20%
```

Run 10: Report of Indigo — Data Link



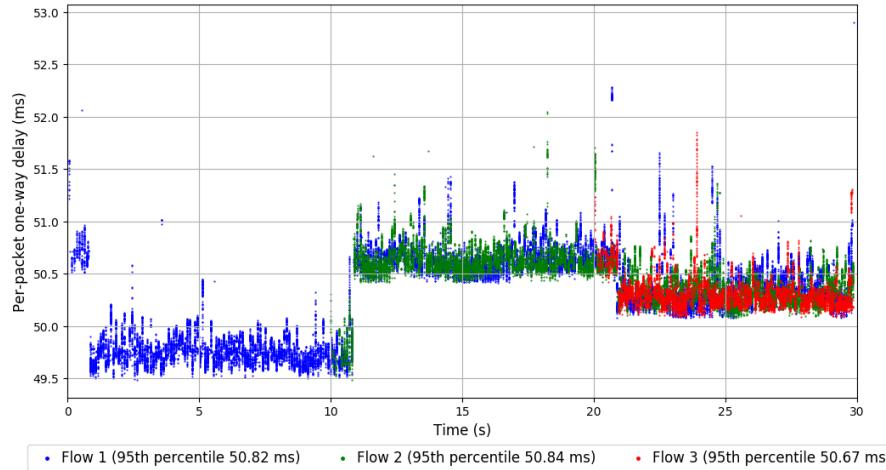
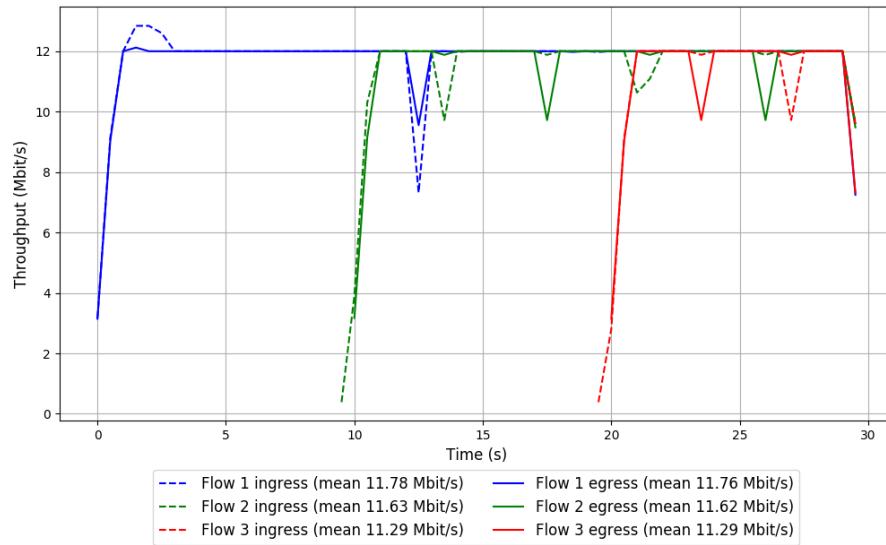
Run 1: Statistics of KohoCC

Start at: 2017-09-08 04:11:21

End at: 2017-09-08 04:11:51

```
# Below is generated by plot.py at 2017-09-08 09:51:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.20 Mbit/s
95th percentile per-packet one-way delay: 50.815 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 11.76 Mbit/s
95th percentile per-packet one-way delay: 50.823 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 11.62 Mbit/s
95th percentile per-packet one-way delay: 50.841 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 11.29 Mbit/s
95th percentile per-packet one-way delay: 50.666 ms
Loss rate: 1.07%
```

Run 1: Report of KohoCC — Data Link



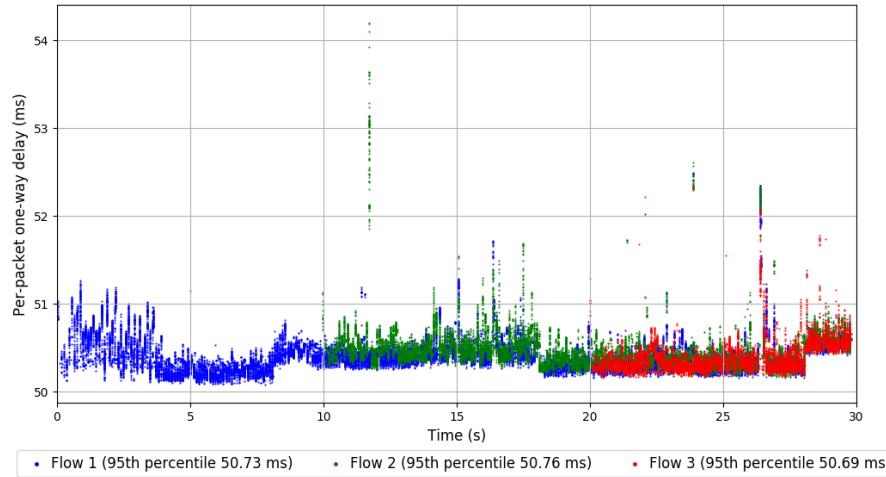
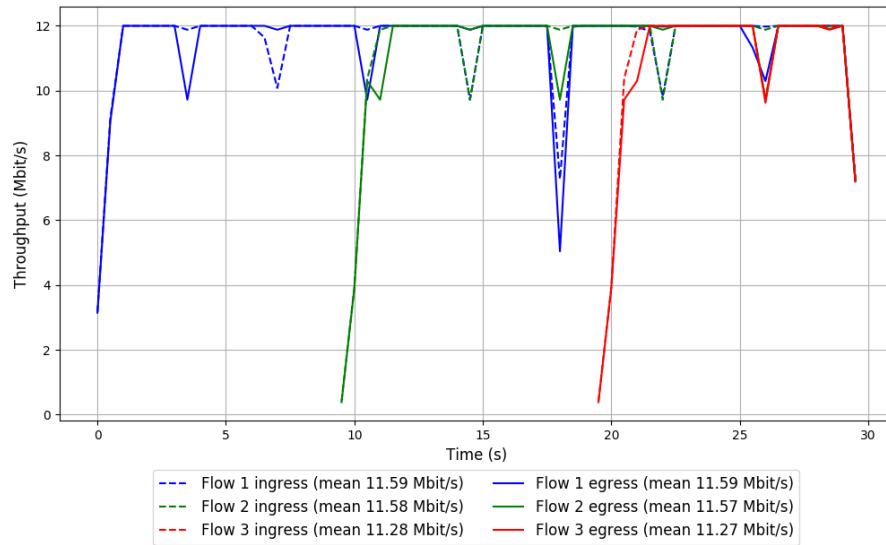
Run 2: Statistics of KohoCC

Start at: 2017-09-08 04:23:33

End at: 2017-09-08 04:24:03

```
# Below is generated by plot.py at 2017-09-08 09:51:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.01 Mbit/s
95th percentile per-packet one-way delay: 50.733 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 11.59 Mbit/s
95th percentile per-packet one-way delay: 50.725 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 11.57 Mbit/s
95th percentile per-packet one-way delay: 50.756 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 11.27 Mbit/s
95th percentile per-packet one-way delay: 50.685 ms
Loss rate: 1.13%
```

Run 2: Report of KohoCC — Data Link



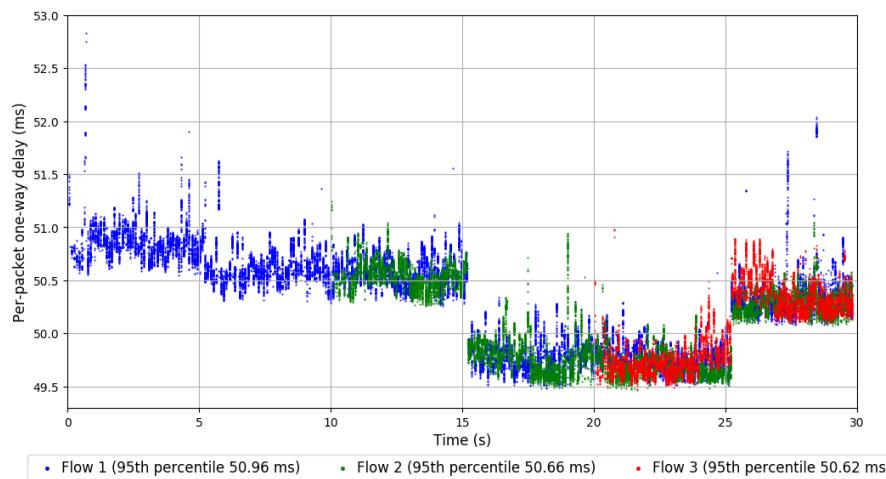
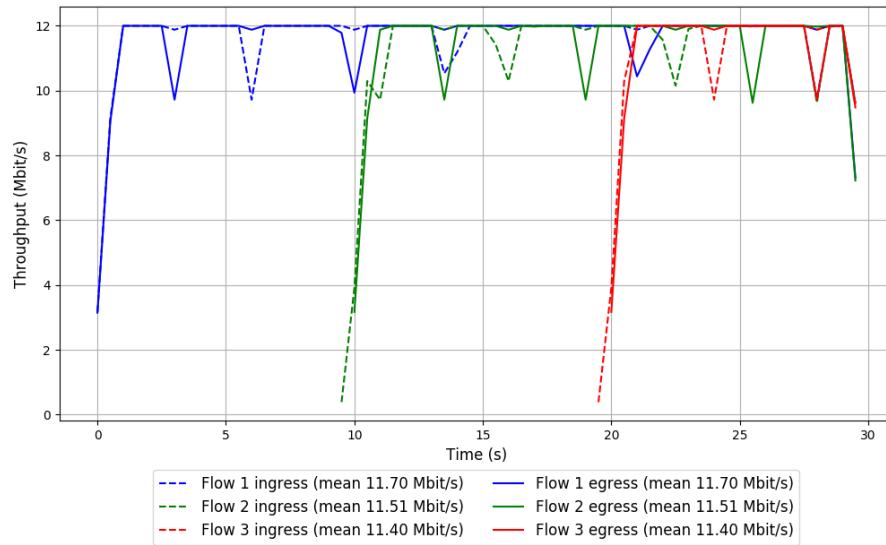
Run 3: Statistics of KohoCC

Start at: 2017-09-08 04:35:56

End at: 2017-09-08 04:36:26

```
# Below is generated by plot.py at 2017-09-08 09:51:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.10 Mbit/s
95th percentile per-packet one-way delay: 50.873 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 11.70 Mbit/s
95th percentile per-packet one-way delay: 50.961 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 11.51 Mbit/s
95th percentile per-packet one-way delay: 50.661 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 11.40 Mbit/s
95th percentile per-packet one-way delay: 50.620 ms
Loss rate: 1.06%
```

Run 3: Report of KohoCC — Data Link



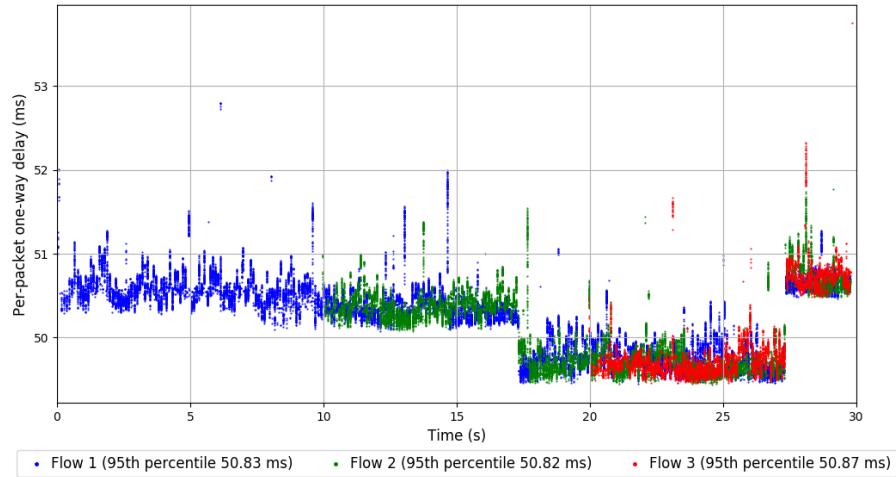
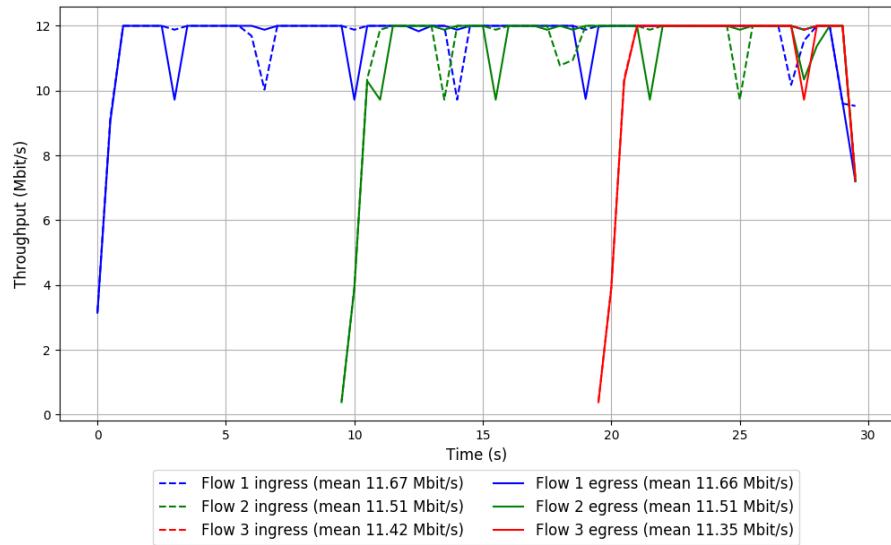
Run 4: Statistics of KohoCC

Start at: 2017-09-08 04:48:04

End at: 2017-09-08 04:48:34

```
# Below is generated by plot.py at 2017-09-08 09:51:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.06 Mbit/s
95th percentile per-packet one-way delay: 50.835 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 11.66 Mbit/s
95th percentile per-packet one-way delay: 50.826 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 11.51 Mbit/s
95th percentile per-packet one-way delay: 50.819 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 11.35 Mbit/s
95th percentile per-packet one-way delay: 50.872 ms
Loss rate: 1.05%
```

## Run 4: Report of KohoCC — Data Link



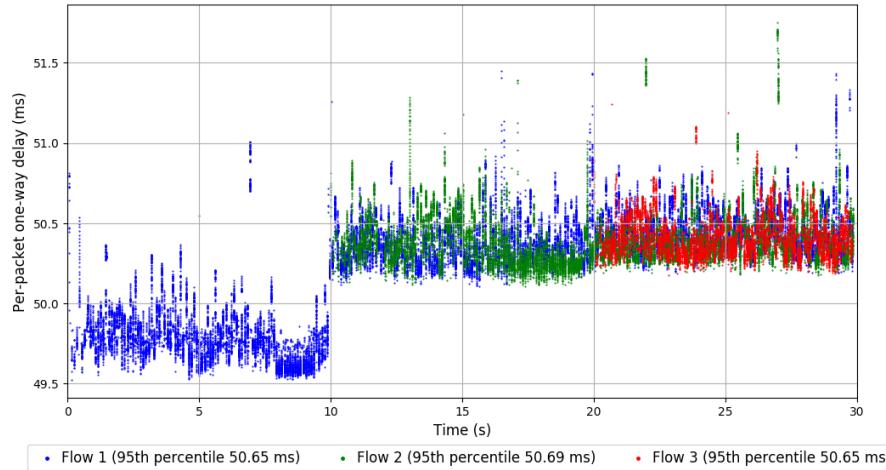
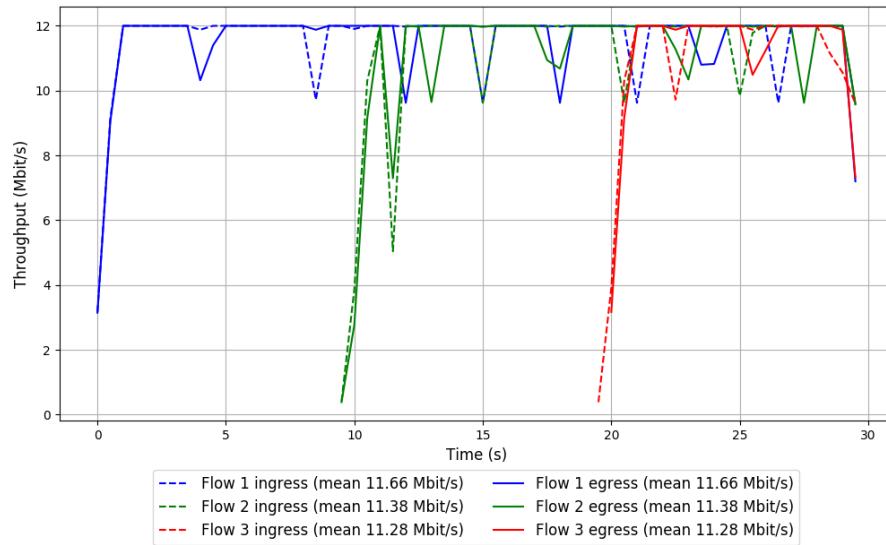
Run 5: Statistics of KohoCC

Start at: 2017-09-08 05:00:22

End at: 2017-09-08 05:00:52

```
# Below is generated by plot.py at 2017-09-08 09:51:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 22.93 Mbit/s
95th percentile per-packet one-way delay: 50.659 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 11.66 Mbit/s
95th percentile per-packet one-way delay: 50.646 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 11.38 Mbit/s
95th percentile per-packet one-way delay: 50.686 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 11.28 Mbit/s
95th percentile per-packet one-way delay: 50.653 ms
Loss rate: 1.07%
```

Run 5: Report of KohoCC — Data Link



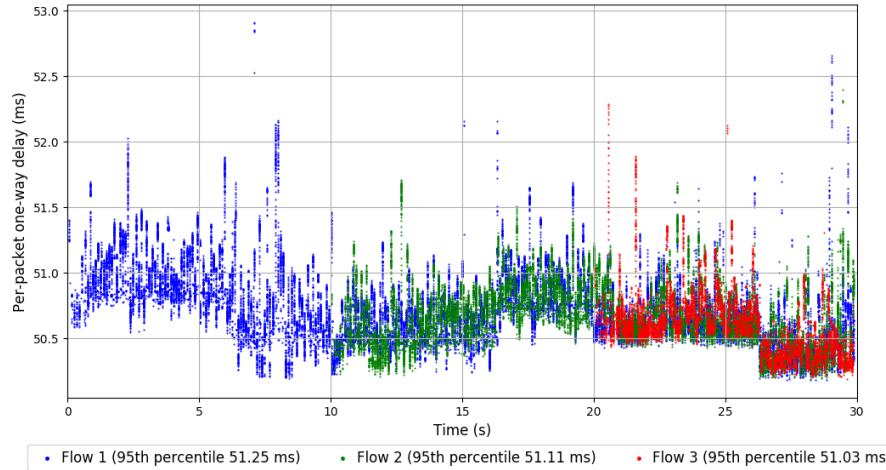
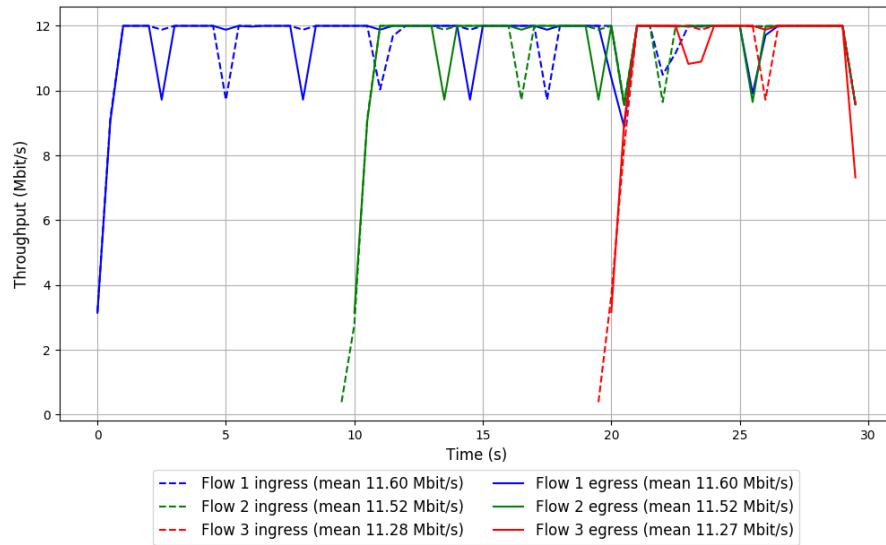
Run 6: Statistics of KohoCC

Start at: 2017-09-08 05:12:45

End at: 2017-09-08 05:13:15

```
# Below is generated by plot.py at 2017-09-08 09:51:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 22.96 Mbit/s
95th percentile per-packet one-way delay: 51.177 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 11.60 Mbit/s
95th percentile per-packet one-way delay: 51.254 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 11.52 Mbit/s
95th percentile per-packet one-way delay: 51.109 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 11.27 Mbit/s
95th percentile per-packet one-way delay: 51.034 ms
Loss rate: 1.07%
```

Run 6: Report of KohoCC — Data Link



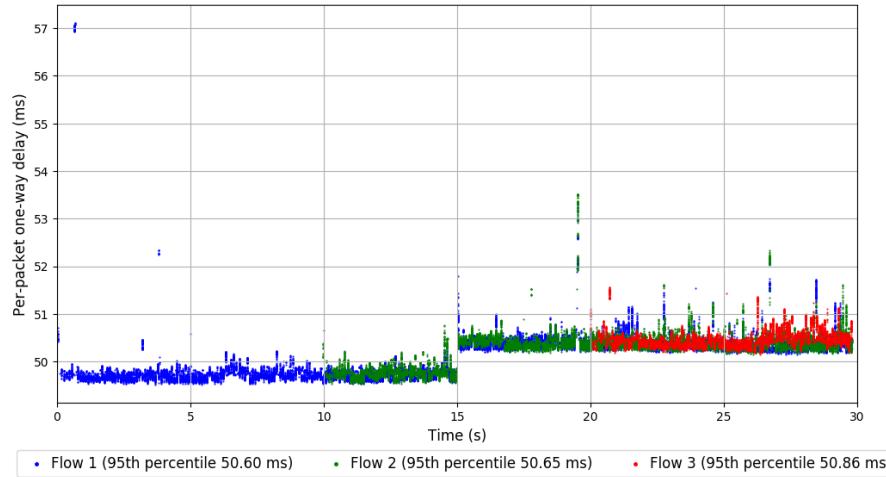
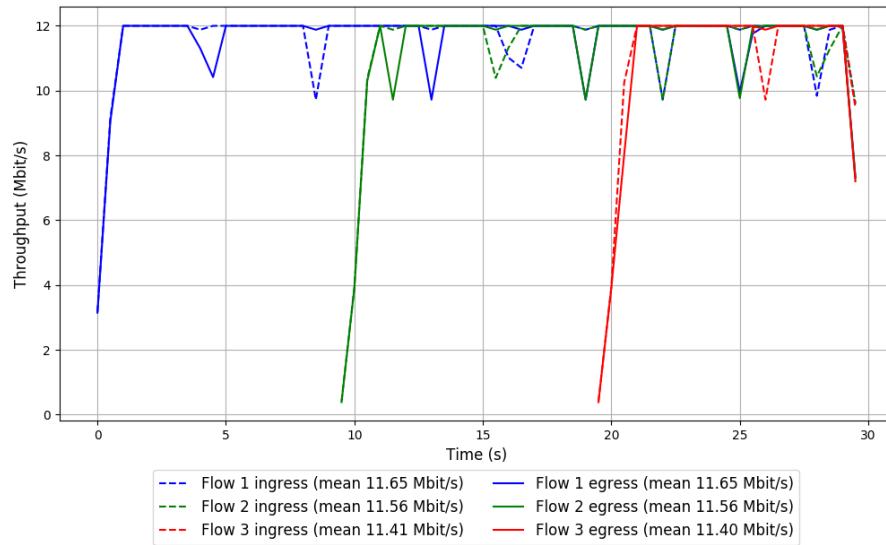
Run 7: Statistics of KohoCC

Start at: 2017-09-08 05:24:57

End at: 2017-09-08 05:25:27

```
# Below is generated by plot.py at 2017-09-08 09:51:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.11 Mbit/s
95th percentile per-packet one-way delay: 50.699 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 11.65 Mbit/s
95th percentile per-packet one-way delay: 50.599 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 11.56 Mbit/s
95th percentile per-packet one-way delay: 50.648 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 11.40 Mbit/s
95th percentile per-packet one-way delay: 50.864 ms
Loss rate: 1.06%
```

Run 7: Report of KohoCC — Data Link



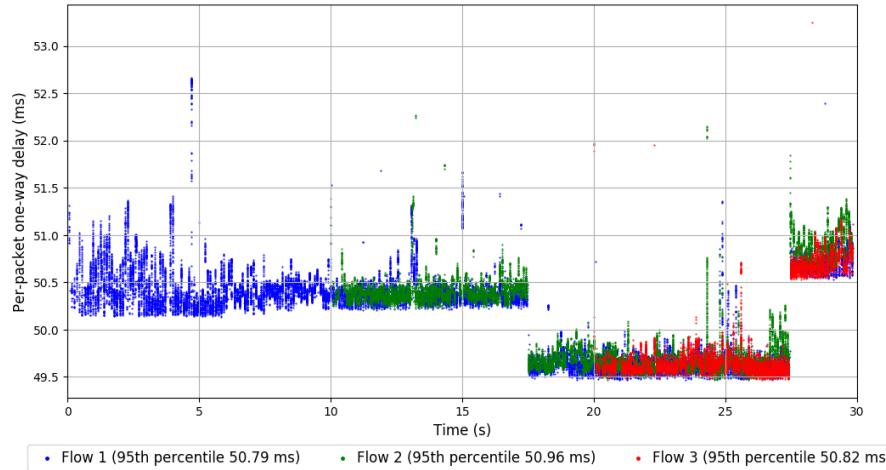
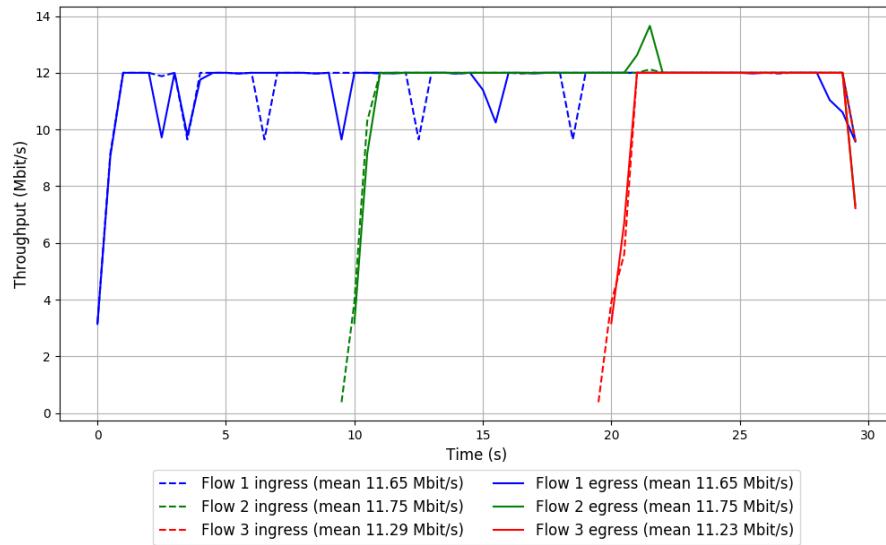
Run 8: Statistics of KohoCC

Start at: 2017-09-08 05:37:04

End at: 2017-09-08 05:37:34

```
# Below is generated by plot.py at 2017-09-08 09:51:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.17 Mbit/s
95th percentile per-packet one-way delay: 50.859 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 11.65 Mbit/s
95th percentile per-packet one-way delay: 50.790 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 11.75 Mbit/s
95th percentile per-packet one-way delay: 50.961 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 11.23 Mbit/s
95th percentile per-packet one-way delay: 50.824 ms
Loss rate: 1.06%
```

Run 8: Report of KohoCC — Data Link



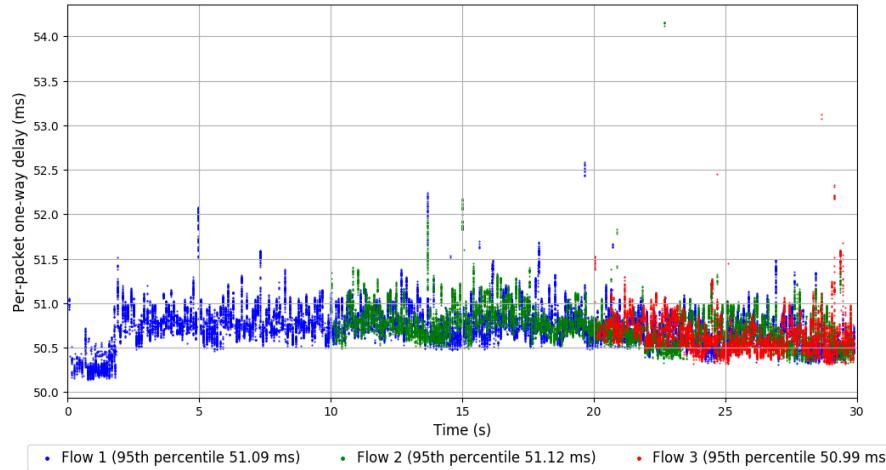
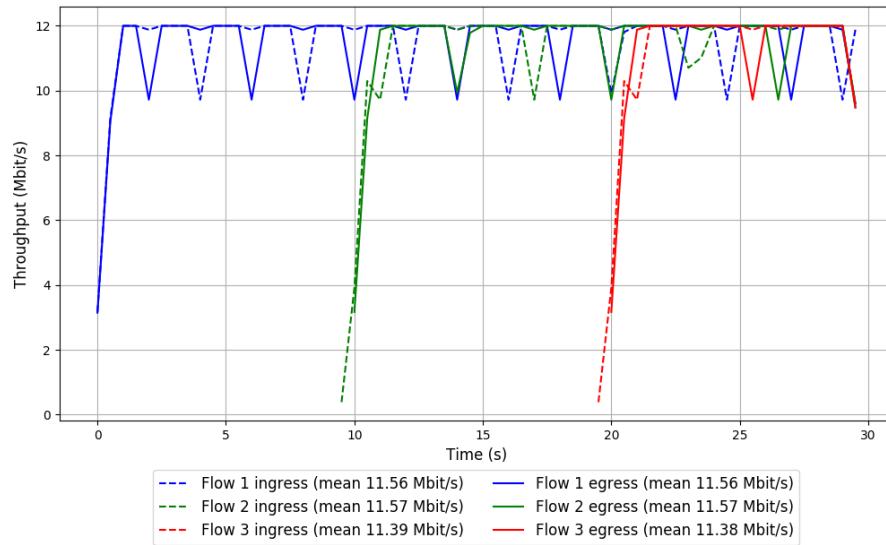
Run 9: Statistics of KohoCC

Start at: 2017-09-08 05:49:20

End at: 2017-09-08 05:49:50

```
# Below is generated by plot.py at 2017-09-08 09:51:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.00 Mbit/s
95th percentile per-packet one-way delay: 51.094 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 11.56 Mbit/s
95th percentile per-packet one-way delay: 51.093 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 11.57 Mbit/s
95th percentile per-packet one-way delay: 51.115 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 11.38 Mbit/s
95th percentile per-packet one-way delay: 50.993 ms
Loss rate: 1.06%
```

Run 9: Report of KohoCC — Data Link



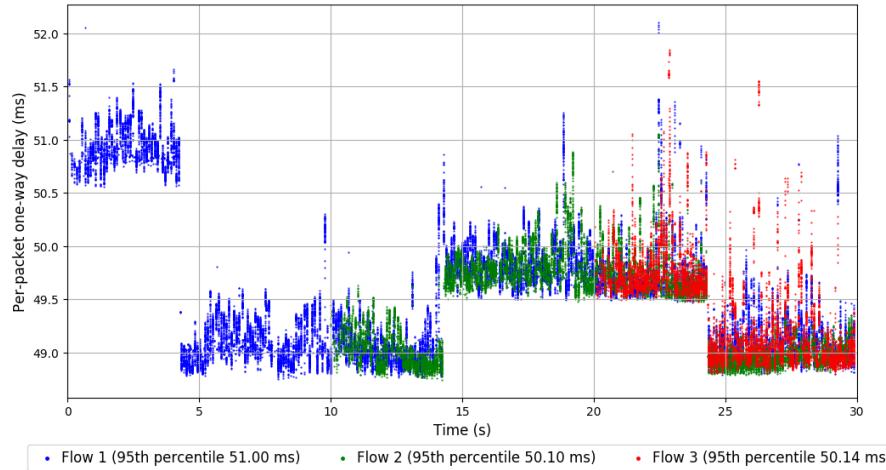
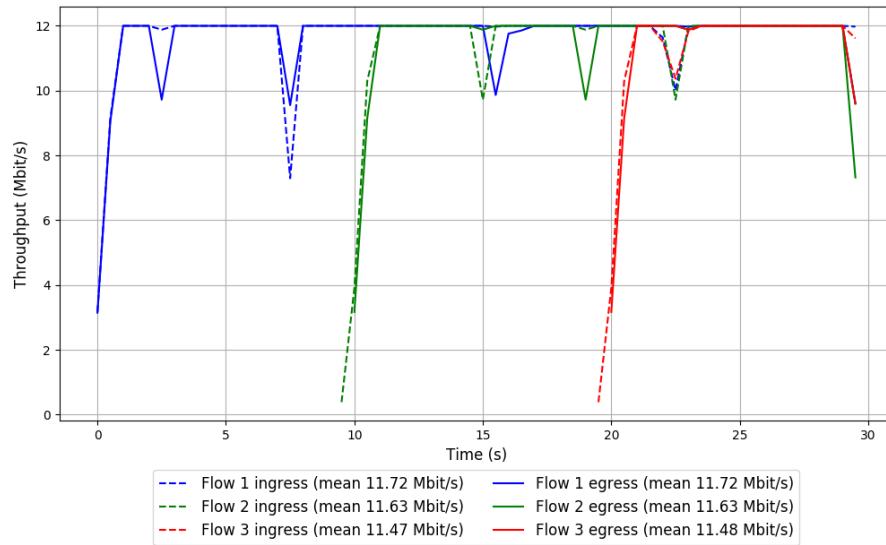
Run 10: Statistics of KohoCC

Start at: 2017-09-08 06:01:27

End at: 2017-09-08 06:01:57

```
# Below is generated by plot.py at 2017-09-08 09:51:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.24 Mbit/s
95th percentile per-packet one-way delay: 50.838 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 11.72 Mbit/s
95th percentile per-packet one-way delay: 51.002 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 11.63 Mbit/s
95th percentile per-packet one-way delay: 50.103 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 11.48 Mbit/s
95th percentile per-packet one-way delay: 50.144 ms
Loss rate: 0.94%
```

## Run 10: Report of KohoCC — Data Link

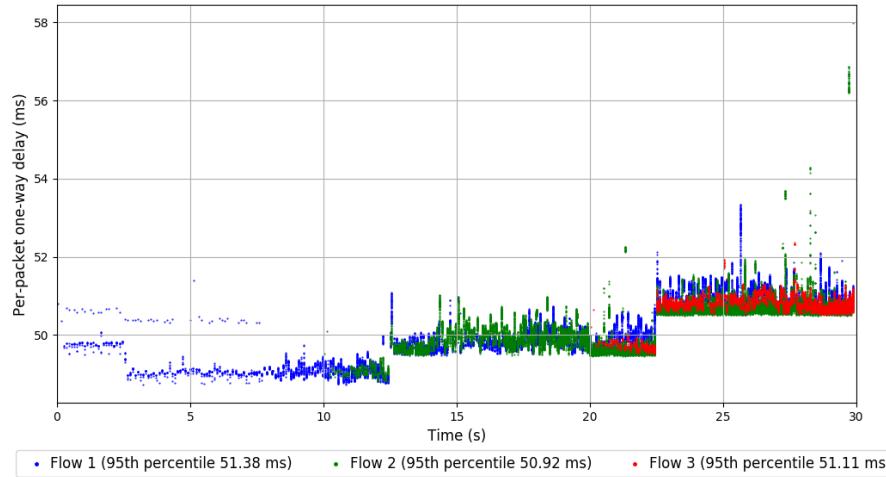
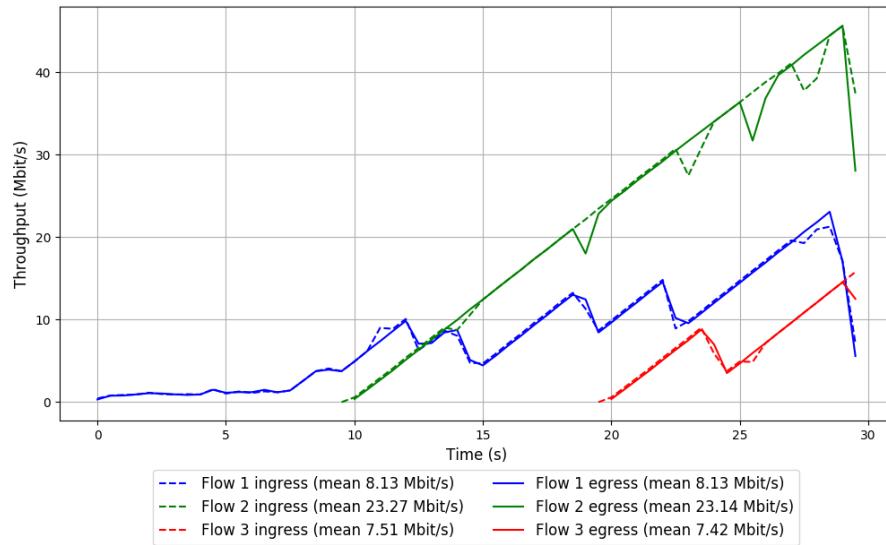


```
Run 1: Statistics of LEDBAT

Start at: 2017-09-08 04:12:49
End at: 2017-09-08 04:13:19

# Below is generated by plot.py at 2017-09-08 09:51:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 25.97 Mbit/s
95th percentile per-packet one-way delay: 51.189 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 8.13 Mbit/s
95th percentile per-packet one-way delay: 51.376 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 23.14 Mbit/s
95th percentile per-packet one-way delay: 50.922 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 7.42 Mbit/s
95th percentile per-packet one-way delay: 51.113 ms
Loss rate: 2.29%
```

Run 1: Report of LEDBAT — Data Link

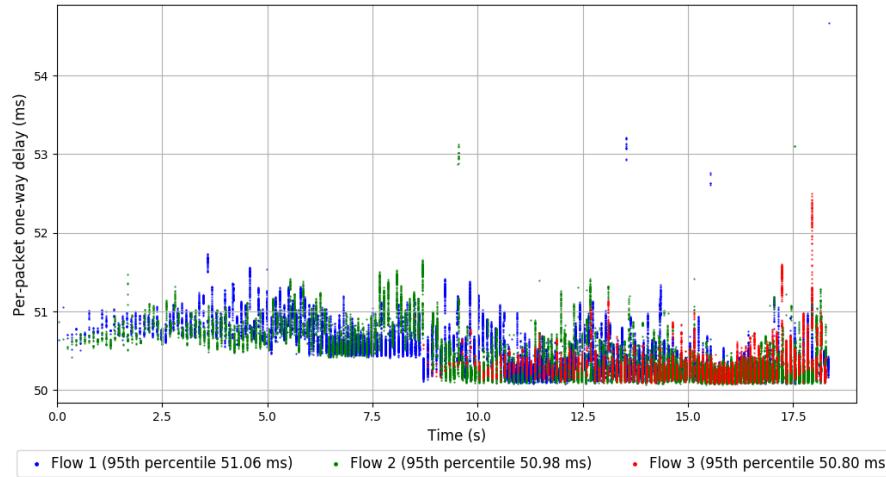
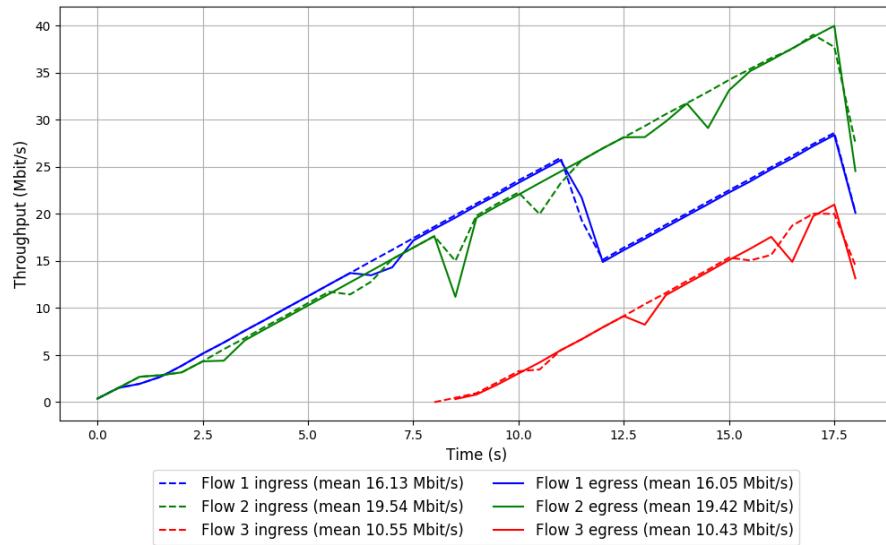


Run 2: Statistics of LEDBAT

Start at: 2017-09-08 04:25:01

End at: 2017-09-08 04:25:31

Run 2: Report of LEDBAT — Data Link

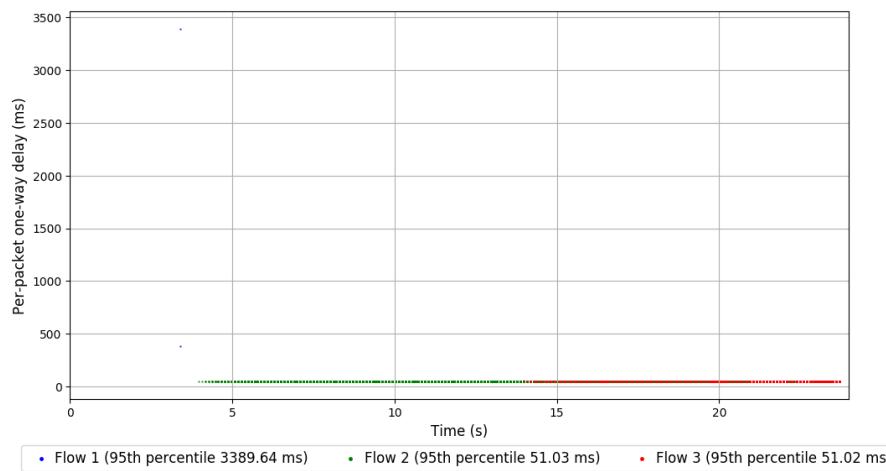
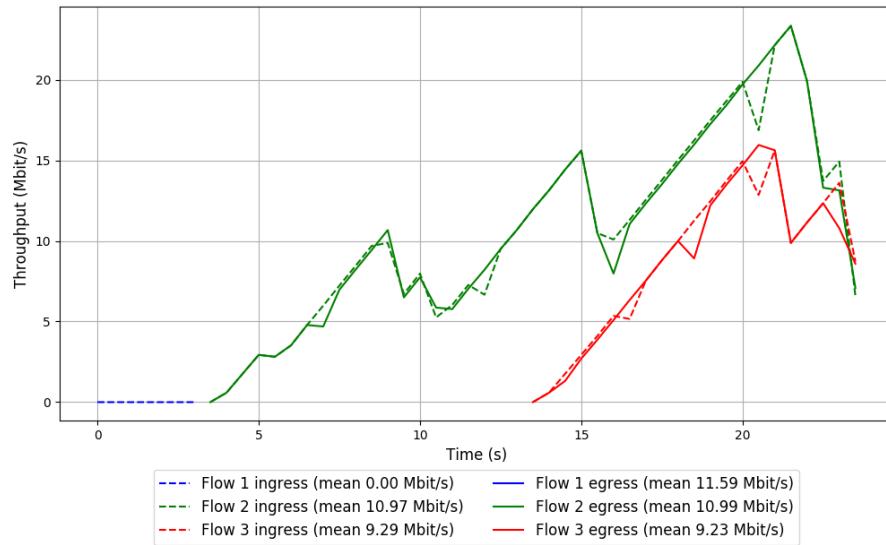


Run 3: Statistics of LEDBAT

Start at: 2017-09-08 04:37:24

End at: 2017-09-08 04:37:54

Run 3: Report of LEDBAT — Data Link

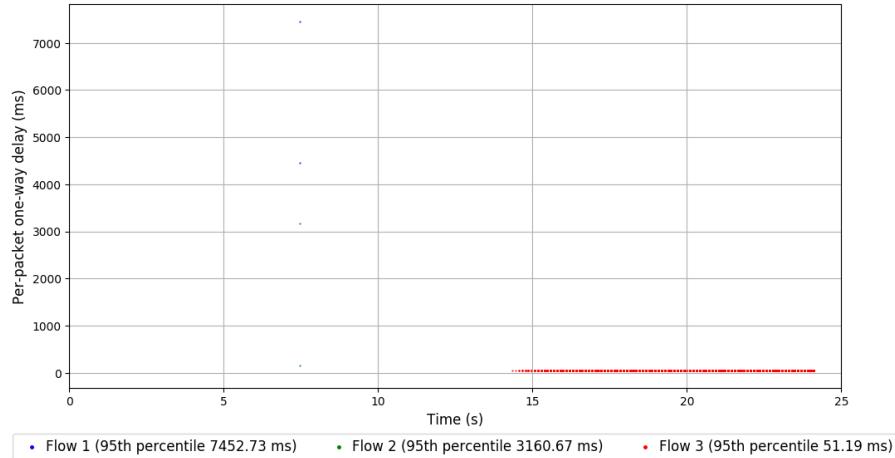
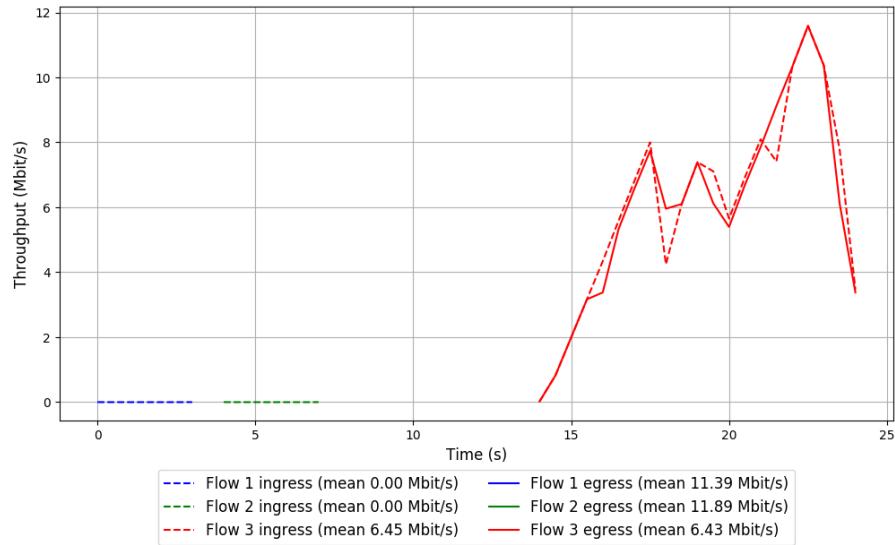


Run 4: Statistics of LEDBAT

Start at: 2017-09-08 04:49:32

End at: 2017-09-08 04:50:02

## Run 4: Report of LEDBAT — Data Link

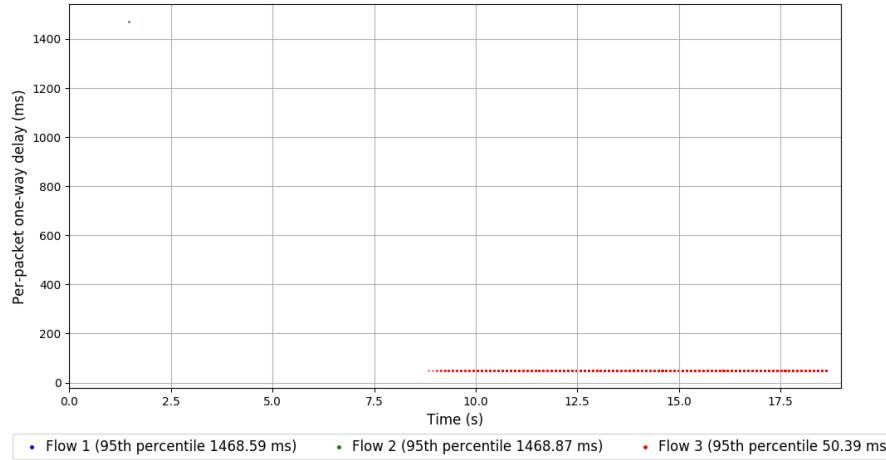
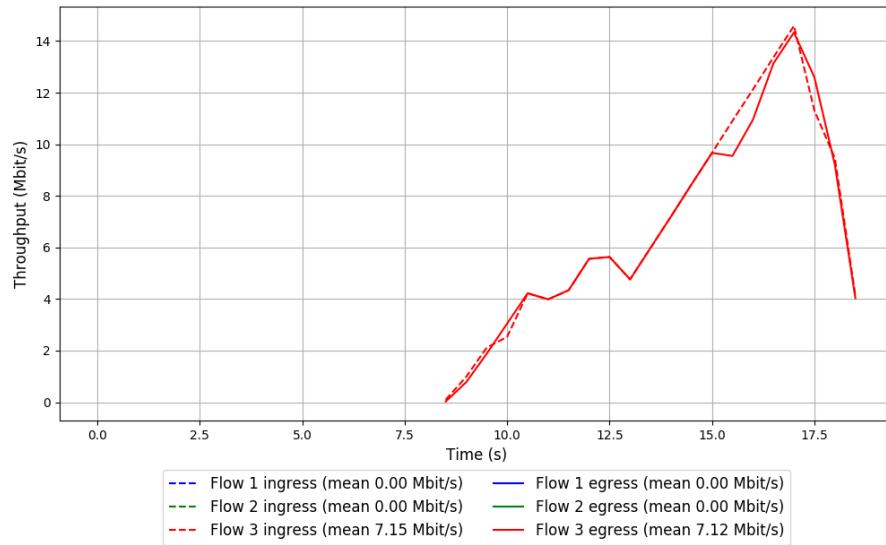


Run 5: Statistics of LEDBAT

Start at: 2017-09-08 05:01:49

End at: 2017-09-08 05:02:19

## Run 5: Report of LEDBAT — Data Link

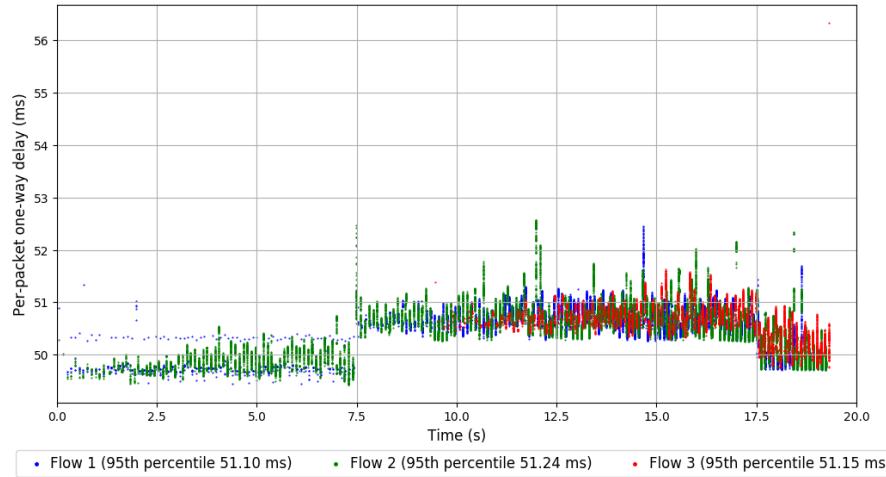
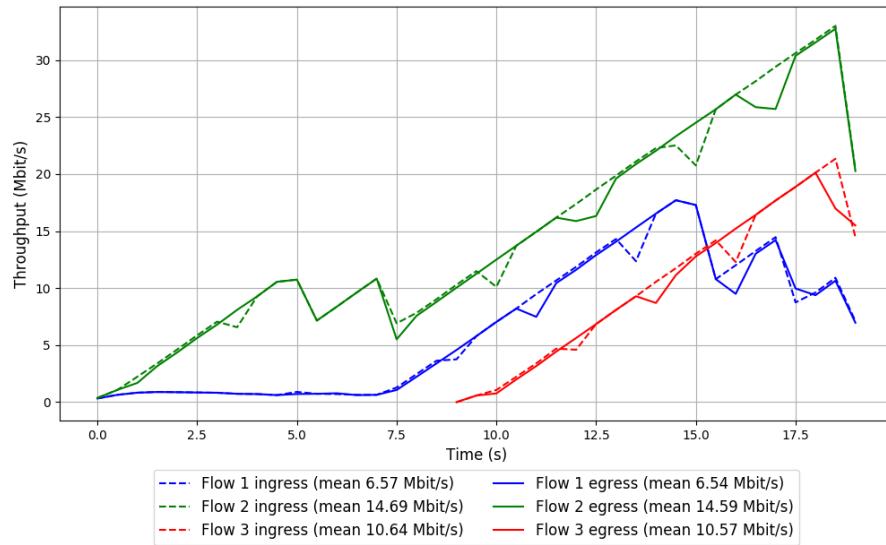


Run 6: Statistics of LEDBAT

Start at: 2017-09-08 05:14:14

End at: 2017-09-08 05:14:44

Run 6: Report of LEDBAT — Data Link



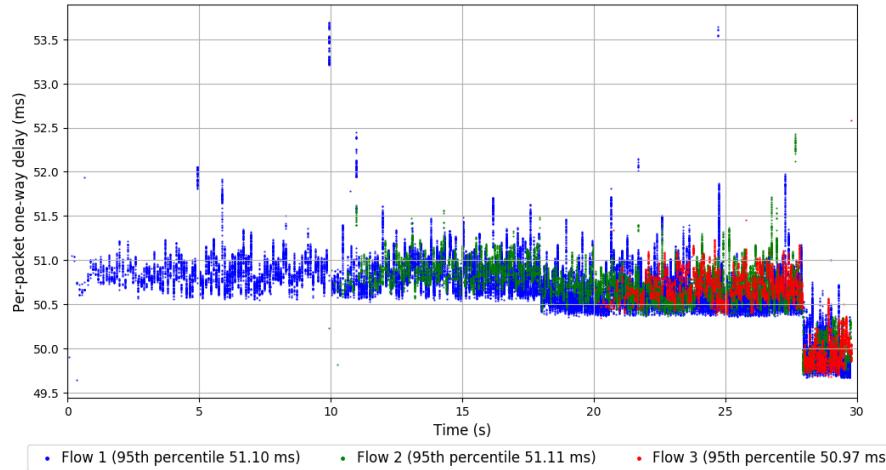
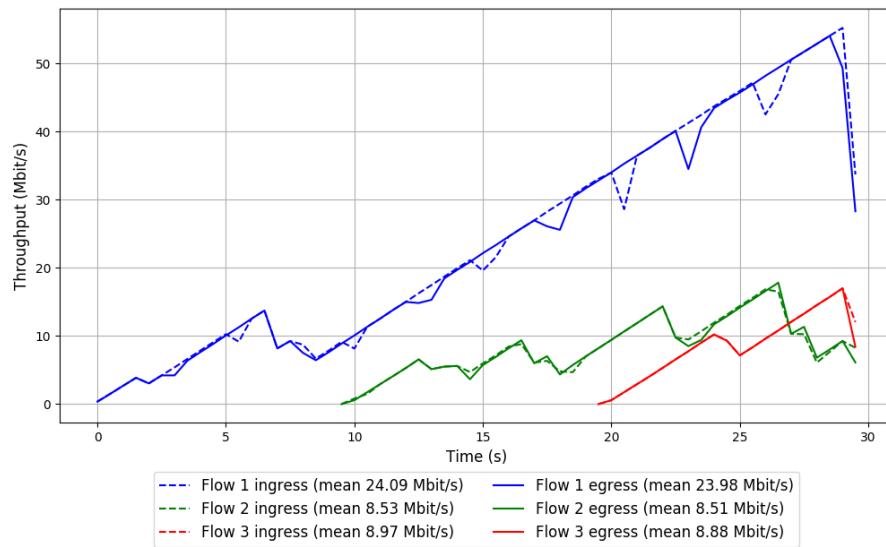
Run 7: Statistics of LEDBAT

Start at: 2017-09-08 05:26:24

End at: 2017-09-08 05:26:54

```
# Below is generated by plot.py at 2017-09-08 09:52:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 32.53 Mbit/s
95th percentile per-packet one-way delay: 51.091 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 23.98 Mbit/s
95th percentile per-packet one-way delay: 51.097 ms
Loss rate: 0.79%
-- Flow 2:
Average throughput: 8.51 Mbit/s
95th percentile per-packet one-way delay: 51.114 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 8.88 Mbit/s
95th percentile per-packet one-way delay: 50.971 ms
Loss rate: 2.04%
```

Run 7: Report of LEDBAT — Data Link

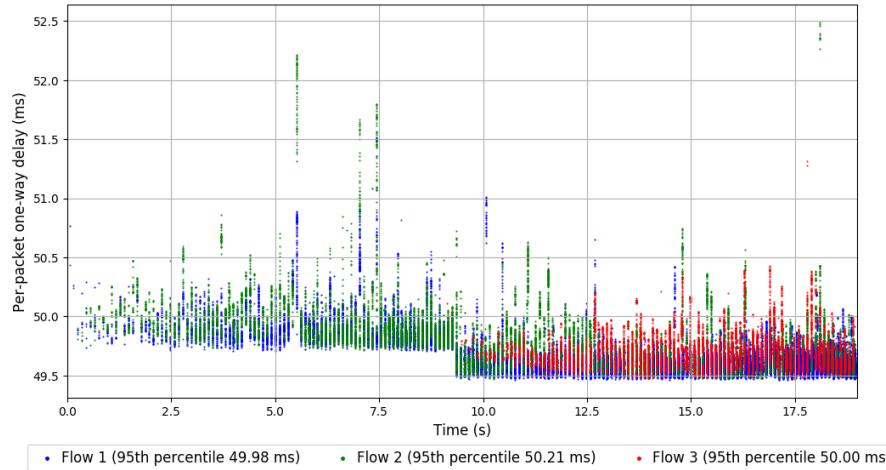
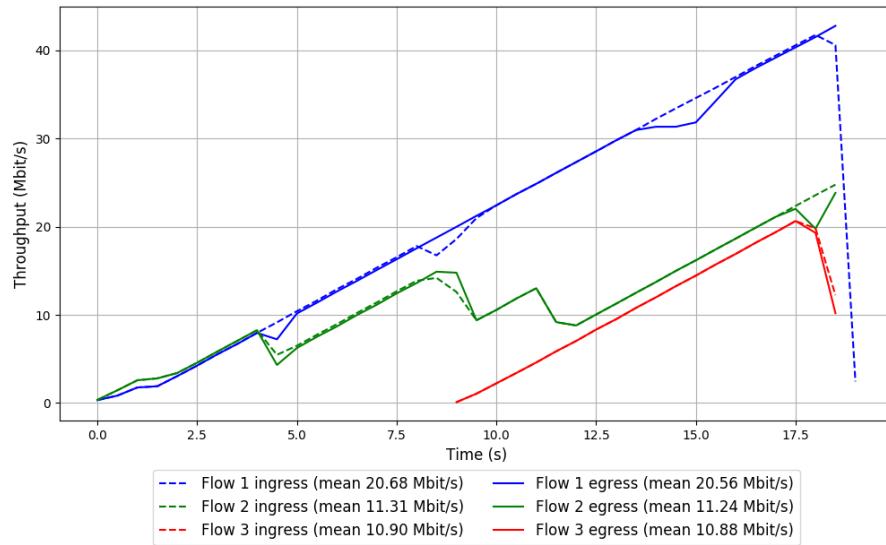


Run 8: Statistics of LEDBAT

Start at: 2017-09-08 05:38:31

End at: 2017-09-08 05:39:01

Run 8: Report of LEDBAT — Data Link

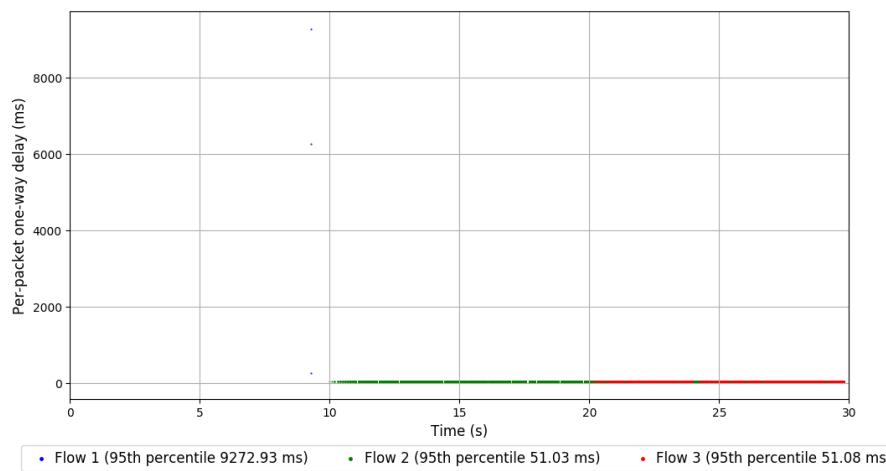
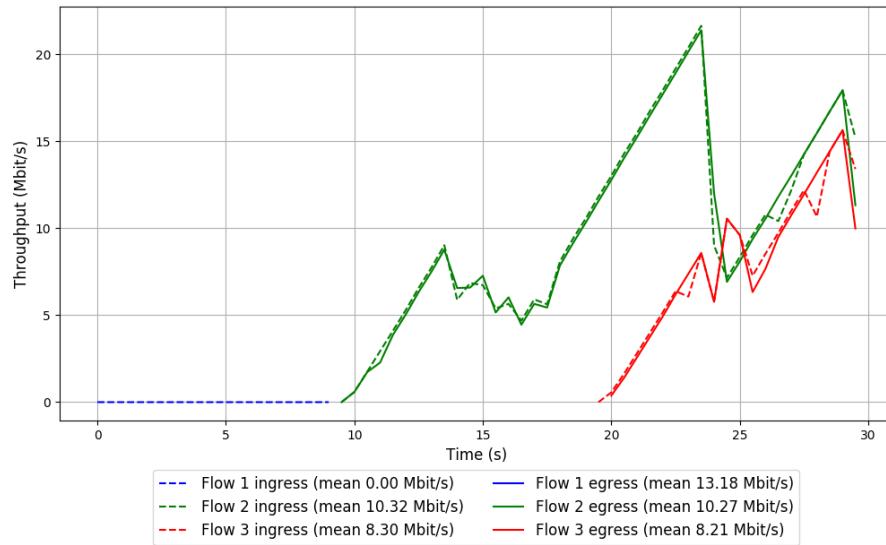


Run 9: Statistics of LEDBAT

Start at: 2017-09-08 05:50:48

End at: 2017-09-08 05:51:18

Run 9: Report of LEDBAT — Data Link

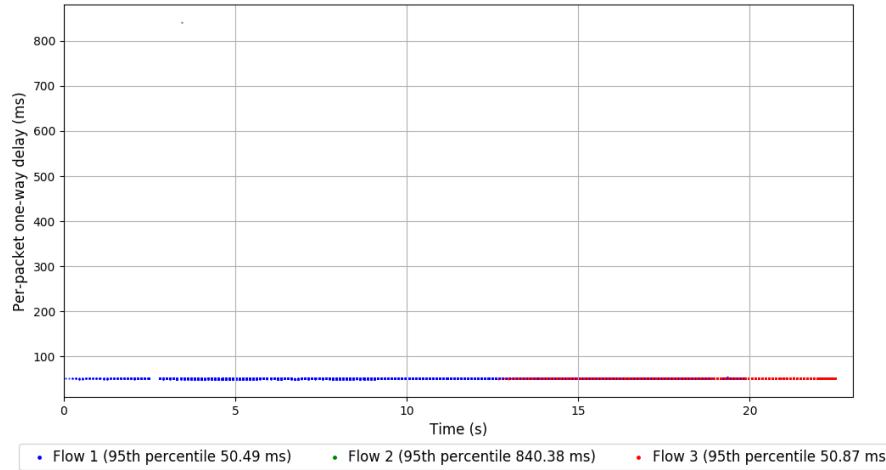
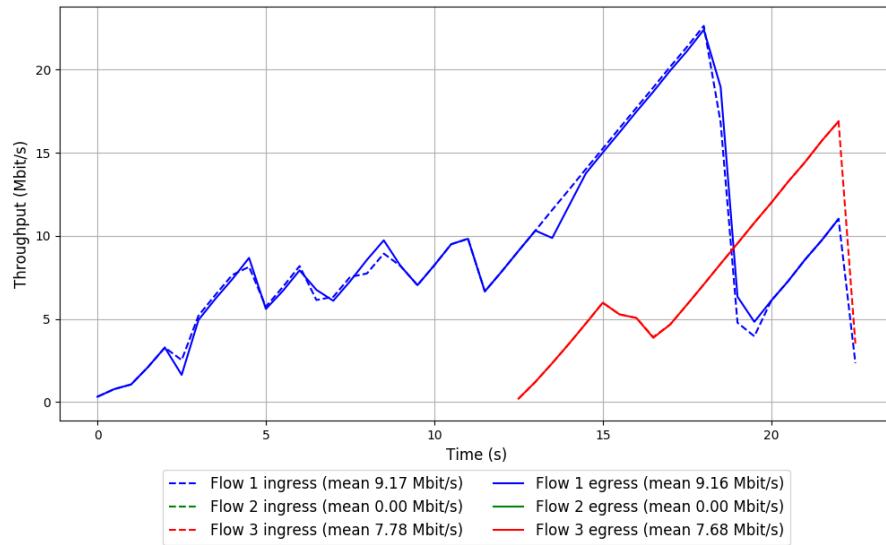


Run 10: Statistics of LEDBAT

Start at: 2017-09-08 06:02:55

End at: 2017-09-08 06:03:25

## Run 10: Report of LEDBAT — Data Link

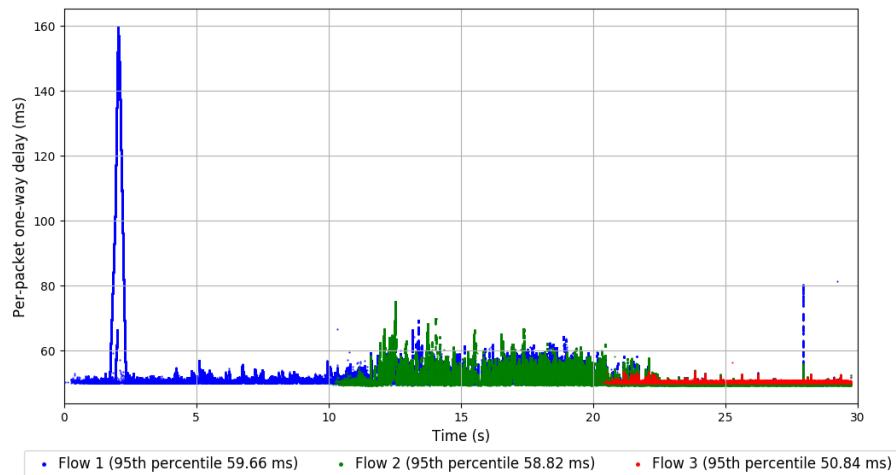
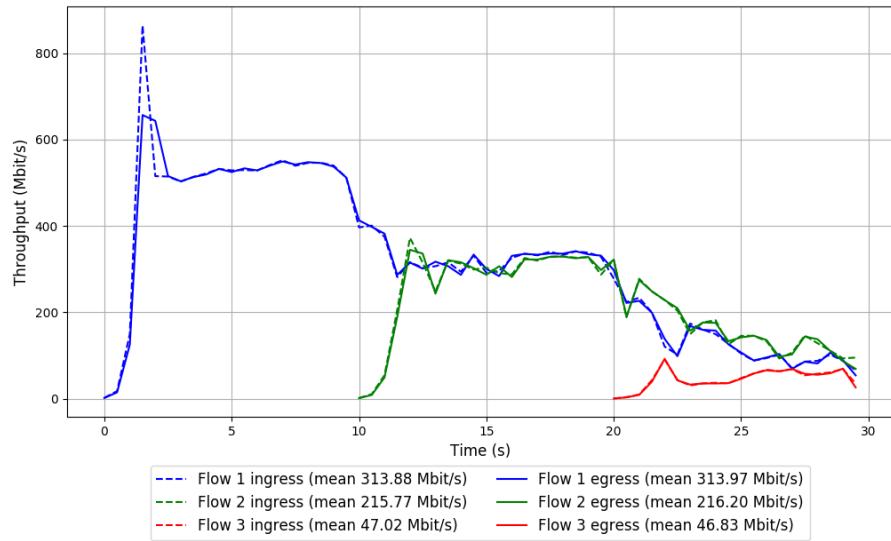


```
Run 1: Statistics of PCC

Start at: 2017-09-08 04:13:30
End at: 2017-09-08 04:14:00

# Below is generated by plot.py at 2017-09-08 09:53:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 472.36 Mbit/s
95th percentile per-packet one-way delay: 59.029 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 313.97 Mbit/s
95th percentile per-packet one-way delay: 59.660 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 216.20 Mbit/s
95th percentile per-packet one-way delay: 58.816 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 46.83 Mbit/s
95th percentile per-packet one-way delay: 50.840 ms
Loss rate: 1.68%
```

Run 1: Report of PCC — Data Link



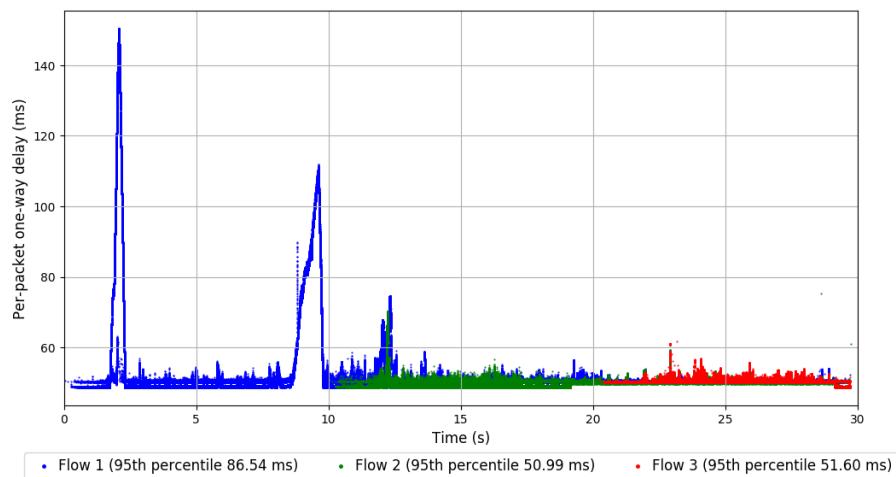
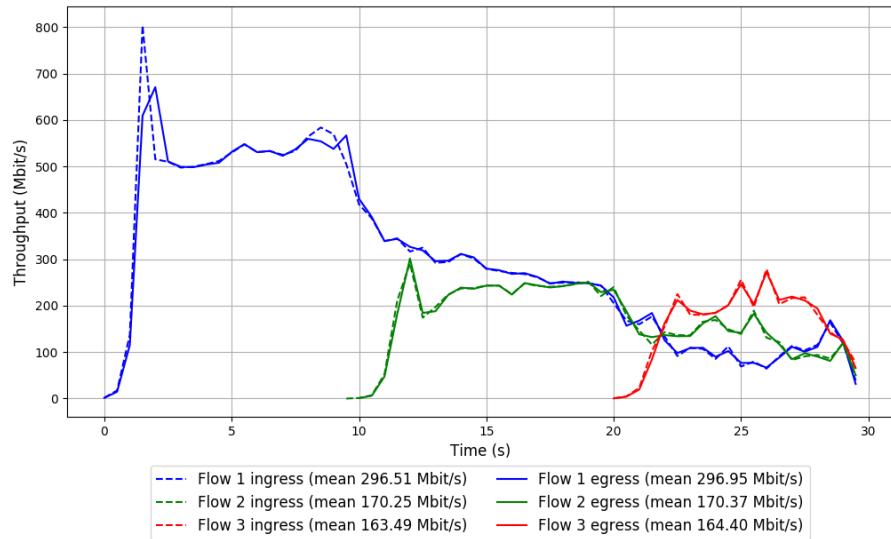
Run 2: Statistics of PCC

Start at: 2017-09-08 04:25:42

End at: 2017-09-08 04:26:12

```
# Below is generated by plot.py at 2017-09-08 09:53:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 462.62 Mbit/s
95th percentile per-packet one-way delay: 75.390 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 296.95 Mbit/s
95th percentile per-packet one-way delay: 86.544 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 170.37 Mbit/s
95th percentile per-packet one-way delay: 50.995 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 164.40 Mbit/s
95th percentile per-packet one-way delay: 51.596 ms
Loss rate: 0.63%
```

## Run 2: Report of PCC — Data Link



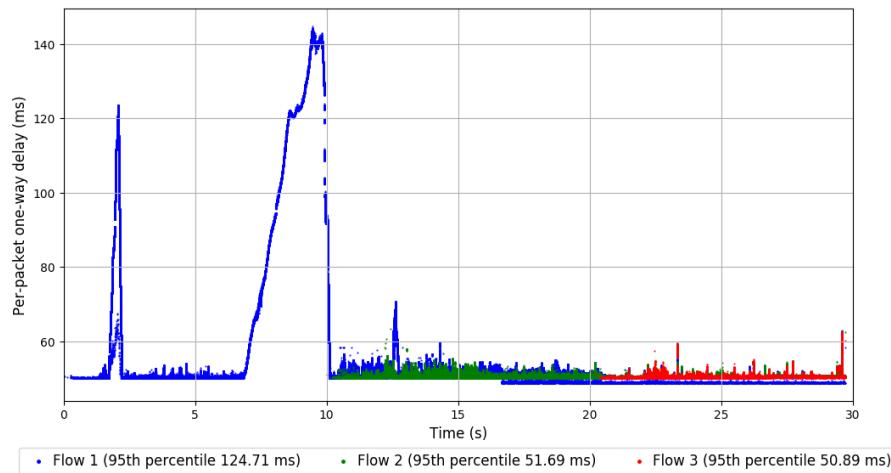
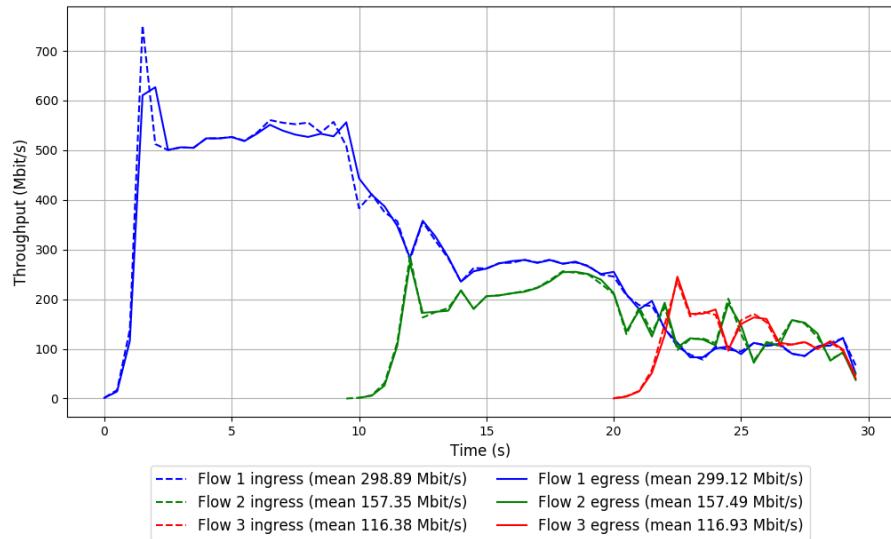
Run 3: Statistics of PCC

Start at: 2017-09-08 04:38:05

End at: 2017-09-08 04:38:35

```
# Below is generated by plot.py at 2017-09-08 09:55:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 441.13 Mbit/s
95th percentile per-packet one-way delay: 121.216 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 299.12 Mbit/s
95th percentile per-packet one-way delay: 124.713 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 157.49 Mbit/s
95th percentile per-packet one-way delay: 51.690 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 116.93 Mbit/s
95th percentile per-packet one-way delay: 50.892 ms
Loss rate: 0.50%
```

### Run 3: Report of PCC — Data Link



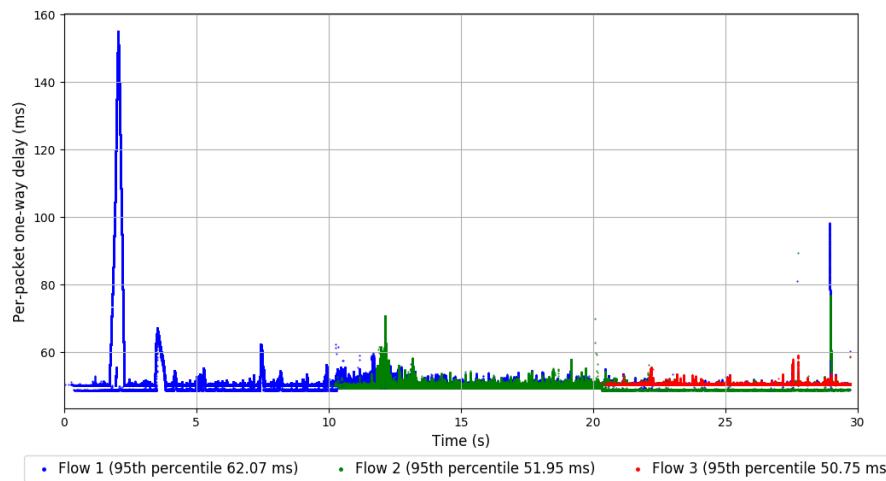
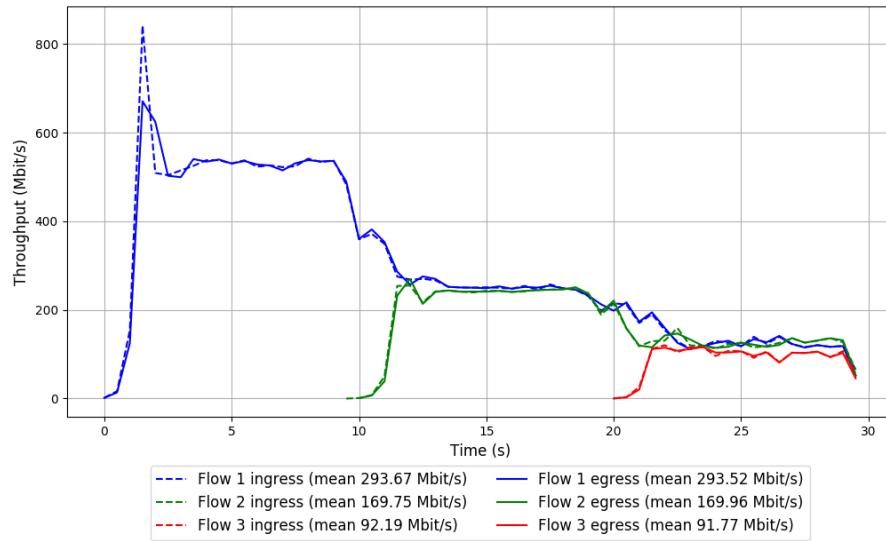
Run 4: Statistics of PCC

Start at: 2017-09-08 04:50:11

End at: 2017-09-08 04:50:41

```
# Below is generated by plot.py at 2017-09-08 09:55:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 435.67 Mbit/s
95th percentile per-packet one-way delay: 56.710 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 293.52 Mbit/s
95th percentile per-packet one-way delay: 62.070 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 169.96 Mbit/s
95th percentile per-packet one-way delay: 51.949 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 91.77 Mbit/s
95th percentile per-packet one-way delay: 50.753 ms
Loss rate: 1.45%
```

Run 4: Report of PCC — Data Link



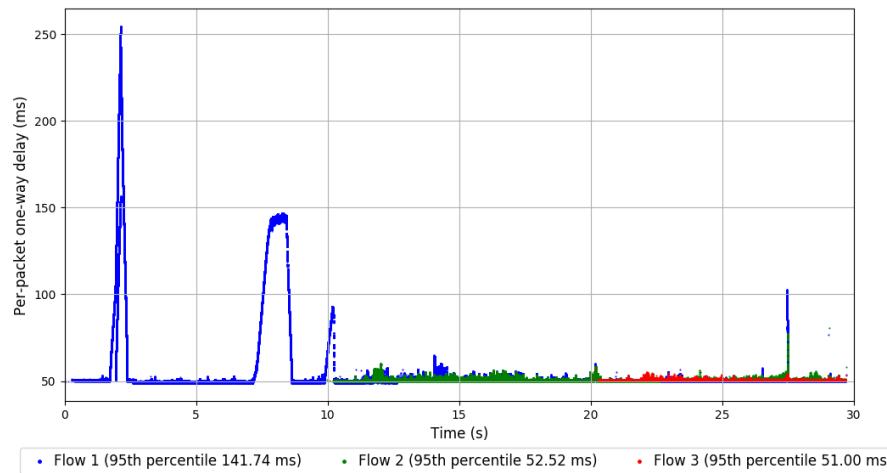
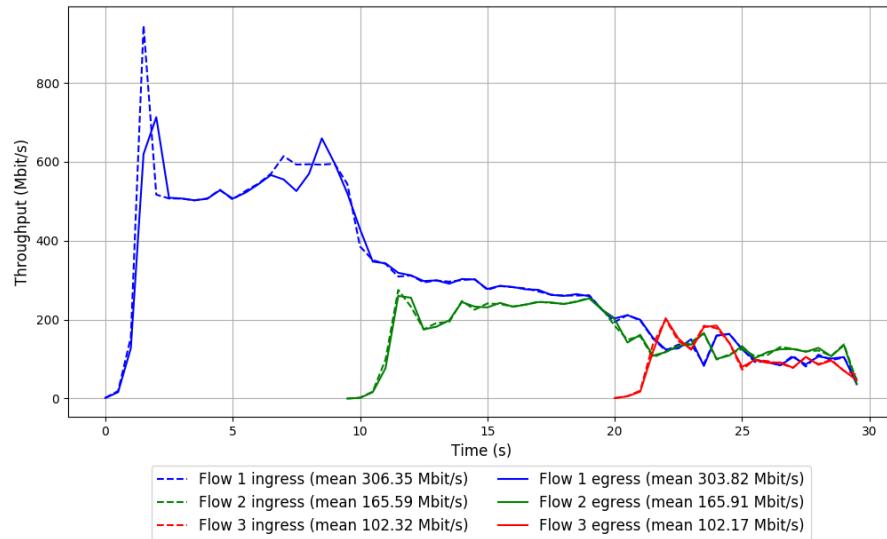
Run 5: Statistics of PCC

Start at: 2017-09-08 05:02:29

End at: 2017-09-08 05:02:59

```
# Below is generated by plot.py at 2017-09-08 09:56:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 447.33 Mbit/s
95th percentile per-packet one-way delay: 119.598 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 303.82 Mbit/s
95th percentile per-packet one-way delay: 141.744 ms
Loss rate: 1.16%
-- Flow 2:
Average throughput: 165.91 Mbit/s
95th percentile per-packet one-way delay: 52.523 ms
Loss rate: 0.30%
-- Flow 3:
Average throughput: 102.17 Mbit/s
95th percentile per-packet one-way delay: 51.003 ms
Loss rate: 1.22%
```

Run 5: Report of PCC — Data Link



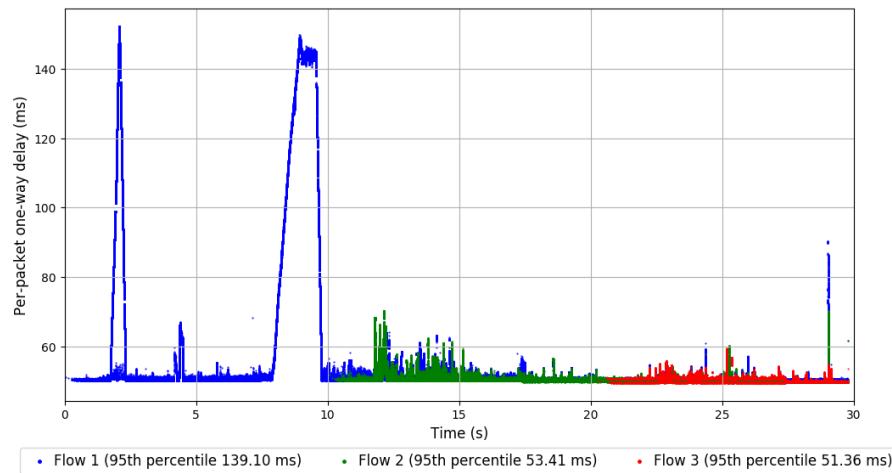
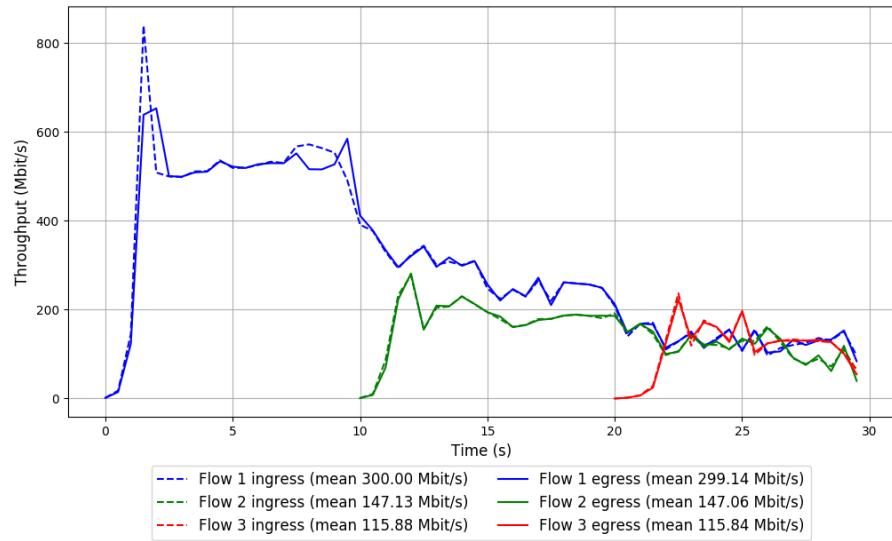
Run 6: Statistics of PCC

Start at: 2017-09-08 05:14:54

End at: 2017-09-08 05:15:24

```
# Below is generated by plot.py at 2017-09-08 09:56:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 433.72 Mbit/s
95th percentile per-packet one-way delay: 121.699 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 299.14 Mbit/s
95th percentile per-packet one-way delay: 139.102 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 147.06 Mbit/s
95th percentile per-packet one-way delay: 53.412 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 115.84 Mbit/s
95th percentile per-packet one-way delay: 51.356 ms
Loss rate: 1.07%
```

Run 6: Report of PCC — Data Link



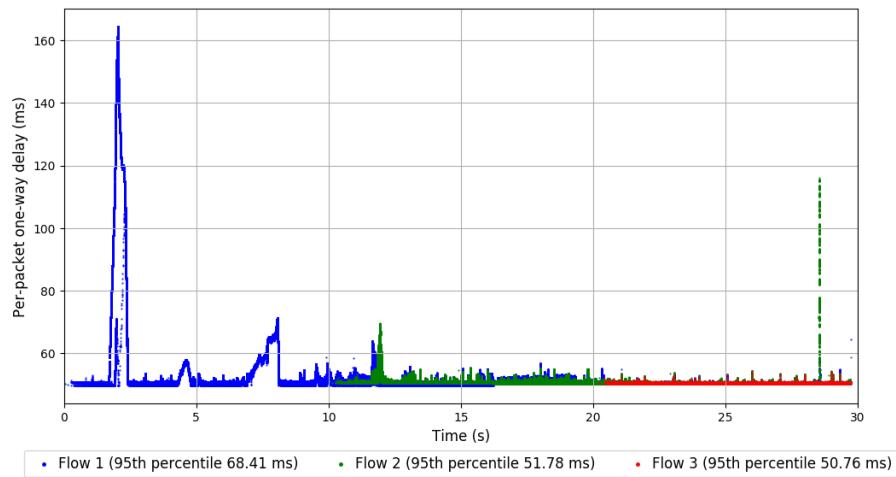
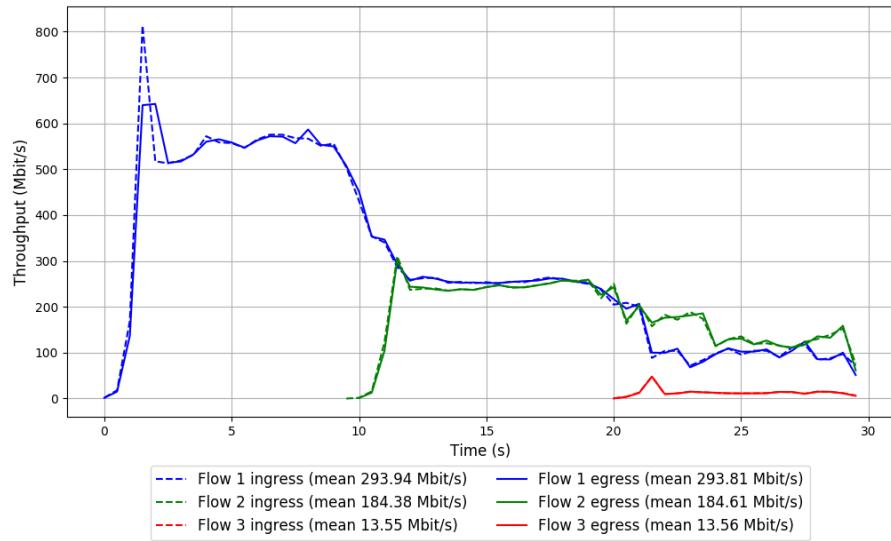
Run 7: Statistics of PCC

Start at: 2017-09-08 05:27:05

End at: 2017-09-08 05:27:35

```
# Below is generated by plot.py at 2017-09-08 09:57:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 420.66 Mbit/s
95th percentile per-packet one-way delay: 64.560 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 293.81 Mbit/s
95th percentile per-packet one-way delay: 68.408 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 184.61 Mbit/s
95th percentile per-packet one-way delay: 51.785 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 13.56 Mbit/s
95th percentile per-packet one-way delay: 50.763 ms
Loss rate: 0.95%
```

Run 7: Report of PCC — Data Link



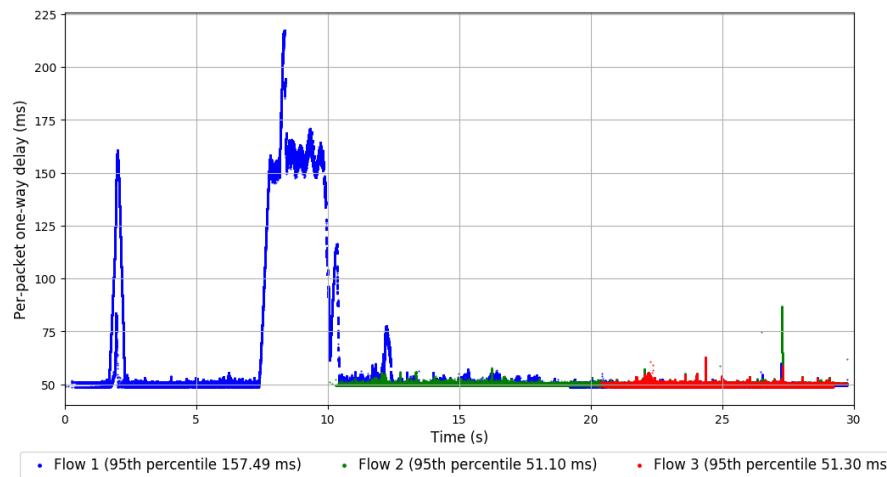
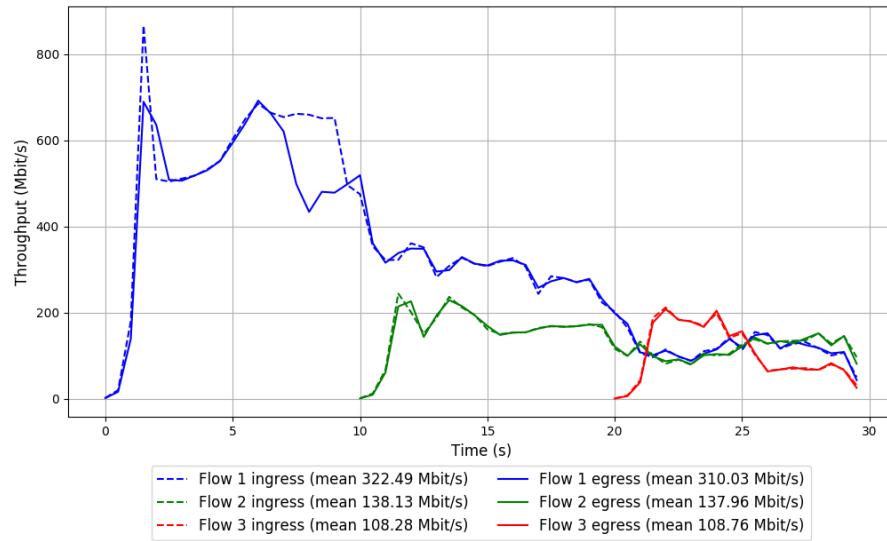
Run 8: Statistics of PCC

Start at: 2017-09-08 05:39:12

End at: 2017-09-08 05:39:42

```
# Below is generated by plot.py at 2017-09-08 09:58:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 436.38 Mbit/s
95th percentile per-packet one-way delay: 154.912 ms
Loss rate: 3.19%
-- Flow 1:
Average throughput: 310.03 Mbit/s
95th percentile per-packet one-way delay: 157.486 ms
Loss rate: 4.22%
-- Flow 2:
Average throughput: 137.96 Mbit/s
95th percentile per-packet one-way delay: 51.099 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 108.76 Mbit/s
95th percentile per-packet one-way delay: 51.303 ms
Loss rate: 0.58%
```

Run 8: Report of PCC — Data Link



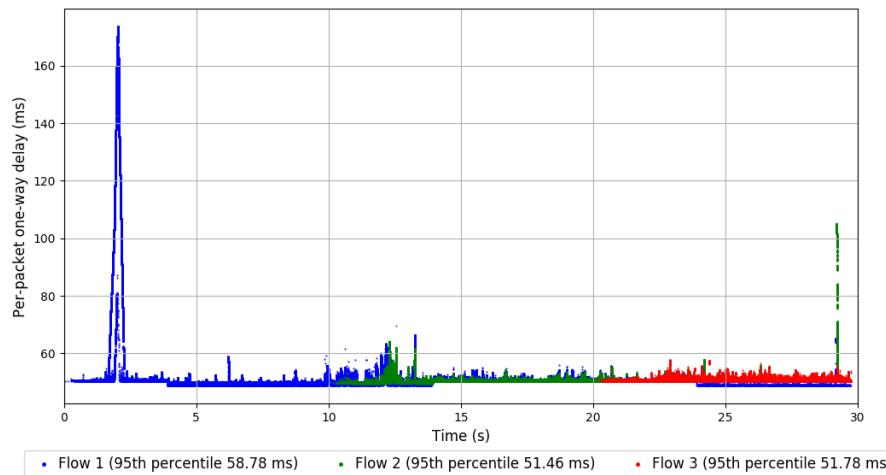
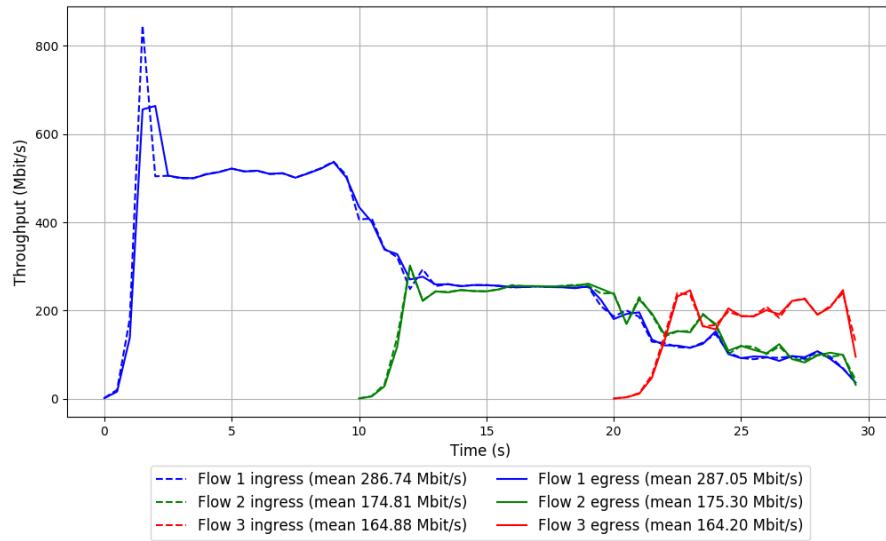
Run 9: Statistics of PCC

Start at: 2017-09-08 05:51:28

End at: 2017-09-08 05:51:58

```
# Below is generated by plot.py at 2017-09-08 09:59:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 456.32 Mbit/s
95th percentile per-packet one-way delay: 53.443 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 287.05 Mbit/s
95th percentile per-packet one-way delay: 58.785 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 175.30 Mbit/s
95th percentile per-packet one-way delay: 51.457 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 164.20 Mbit/s
95th percentile per-packet one-way delay: 51.782 ms
Loss rate: 1.50%
```

Run 9: Report of PCC — Data Link



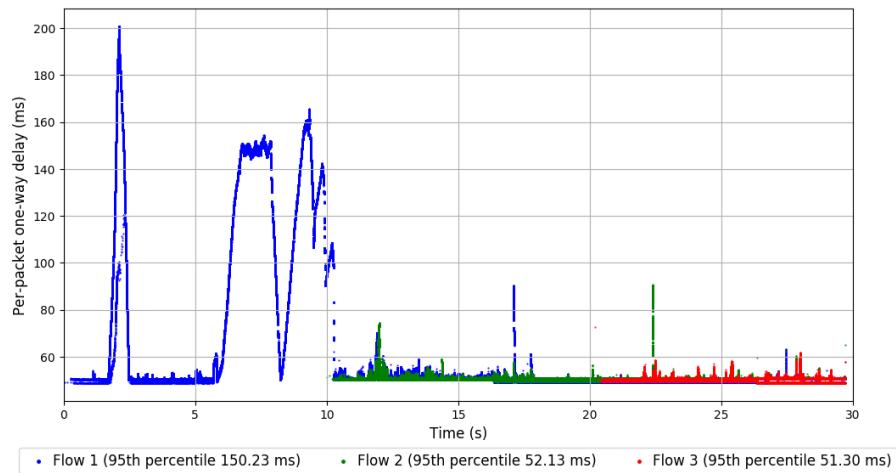
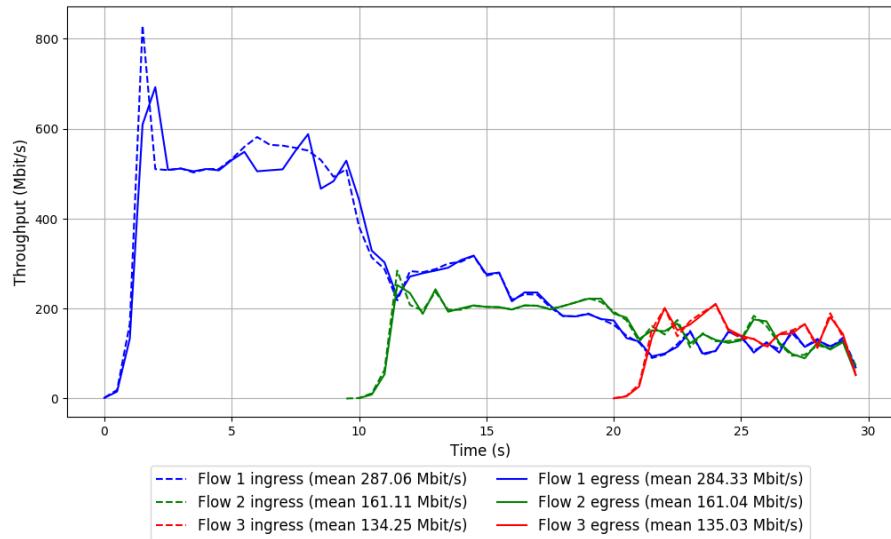
Run 10: Statistics of PCC

Start at: 2017-09-08 06:03:35

End at: 2017-09-08 06:04:05

```
# Below is generated by plot.py at 2017-09-08 09:59:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 434.64 Mbit/s
95th percentile per-packet one-way delay: 148.061 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 284.33 Mbit/s
95th percentile per-packet one-way delay: 150.234 ms
Loss rate: 1.26%
-- Flow 2:
Average throughput: 161.04 Mbit/s
95th percentile per-packet one-way delay: 52.127 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 135.03 Mbit/s
95th percentile per-packet one-way delay: 51.298 ms
Loss rate: 0.64%
```

Run 10: Report of PCC — Data Link

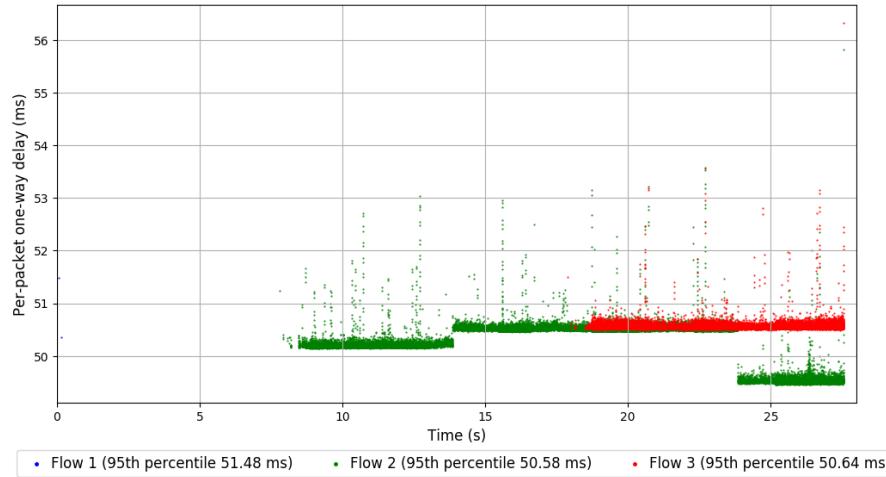
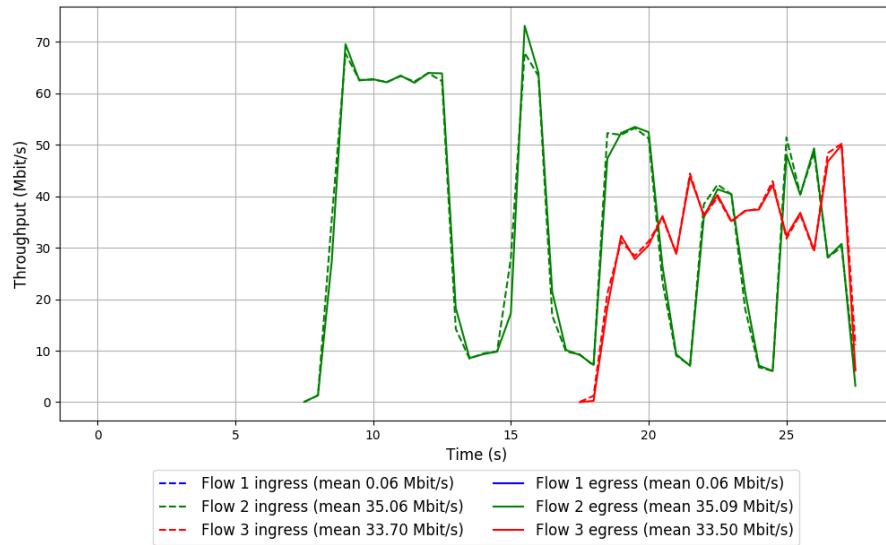


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-09-08 04:17:45
End at: 2017-09-08 04:18:15

# Below is generated by plot.py at 2017-09-08 09:59:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 36.99 Mbit/s
95th percentile per-packet one-way delay: 50.605 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 51.479 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 35.09 Mbit/s
95th percentile per-packet one-way delay: 50.576 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 33.50 Mbit/s
95th percentile per-packet one-way delay: 50.639 ms
Loss rate: 1.55%
```

Run 1: Report of QUIC Cubic — Data Link



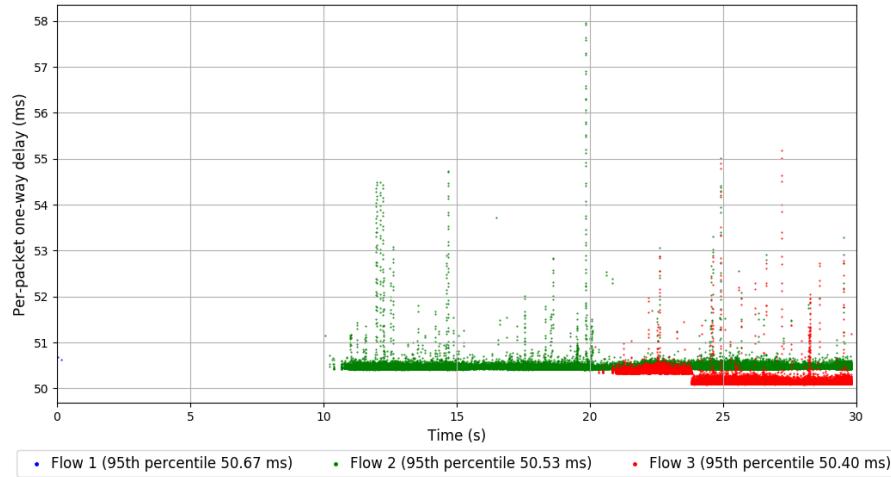
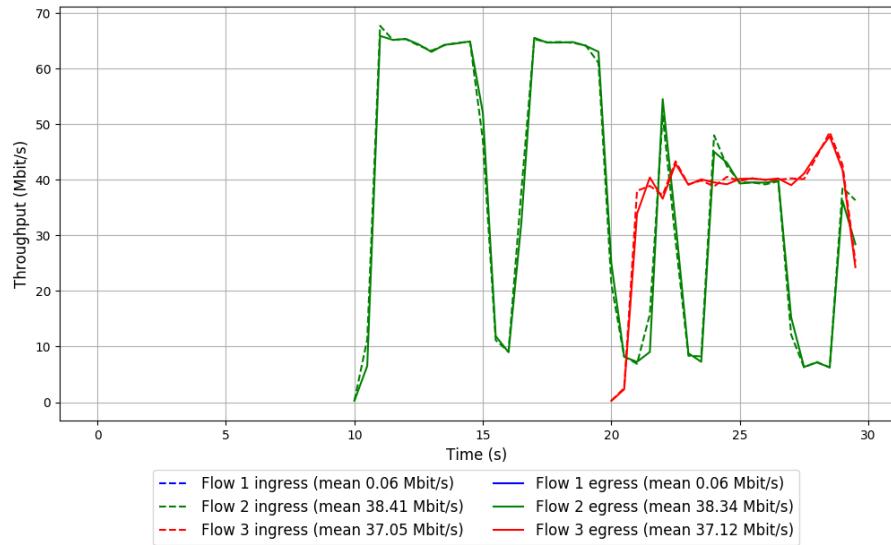
Run 2: Statistics of QUIC Cubic

Start at: 2017-09-08 04:29:58

End at: 2017-09-08 04:30:28

```
# Below is generated by plot.py at 2017-09-08 09:59:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 37.42 Mbit/s
95th percentile per-packet one-way delay: 50.517 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 50.673 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 38.34 Mbit/s
95th percentile per-packet one-way delay: 50.534 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 37.12 Mbit/s
95th percentile per-packet one-way delay: 50.399 ms
Loss rate: 0.86%
```

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



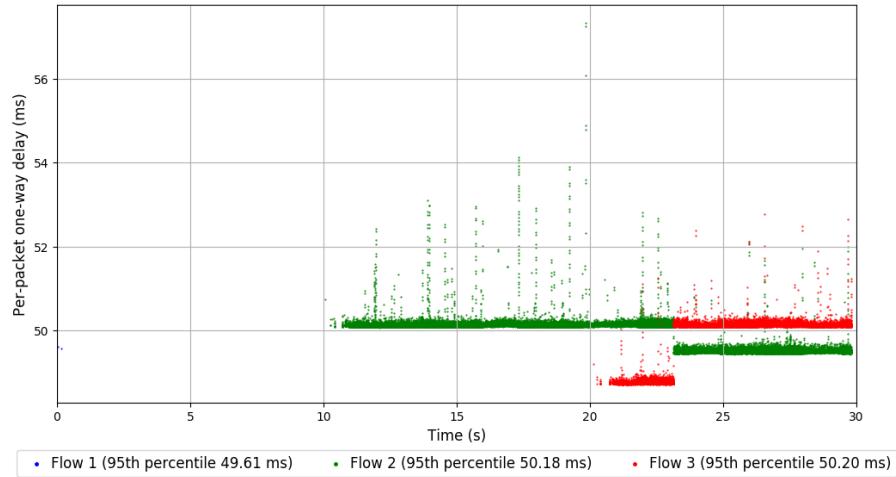
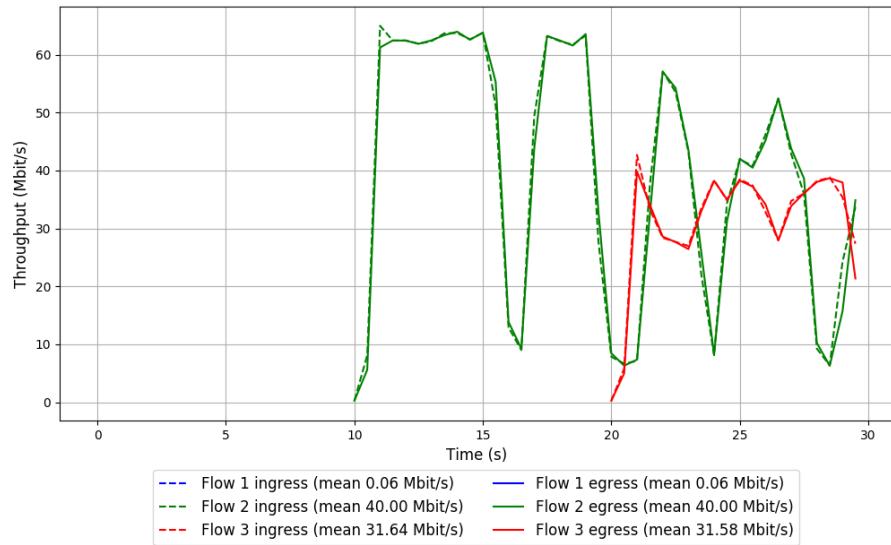
Run 3: Statistics of QUIC Cubic

Start at: 2017-09-08 04:42:18

End at: 2017-09-08 04:42:48

```
# Below is generated by plot.py at 2017-09-08 09:59:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 36.79 Mbit/s
95th percentile per-packet one-way delay: 50.187 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 49.613 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 40.00 Mbit/s
95th percentile per-packet one-way delay: 50.184 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 31.58 Mbit/s
95th percentile per-packet one-way delay: 50.195 ms
Loss rate: 1.20%
```

Run 3: Report of QUIC Cubic — Data Link



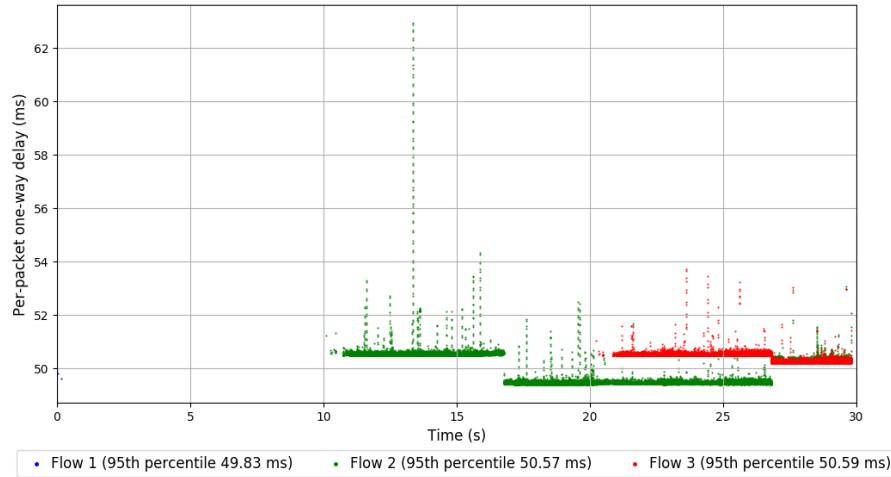
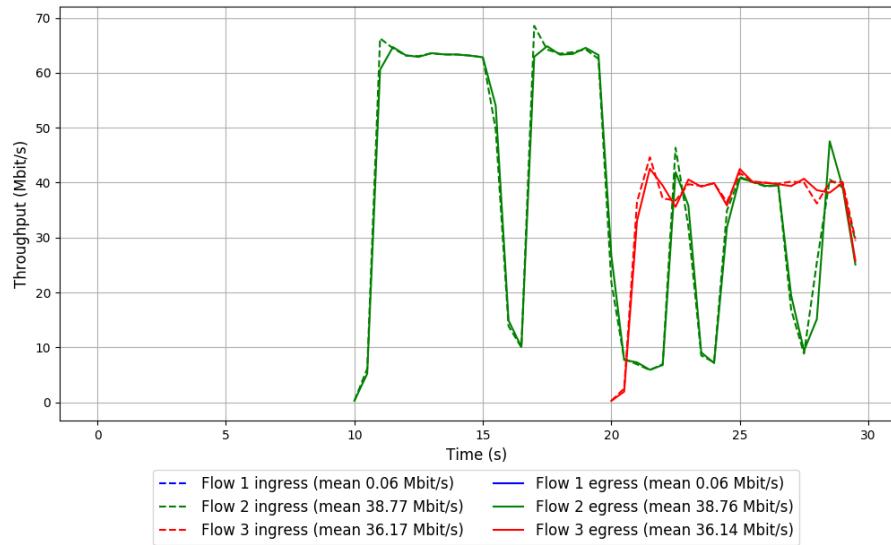
Run 4: Statistics of QUIC Cubic

Start at: 2017-09-08 04:54:25

End at: 2017-09-08 04:54:55

```
# Below is generated by plot.py at 2017-09-08 09:59:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 37.34 Mbit/s
95th percentile per-packet one-way delay: 50.576 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 49.832 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 38.76 Mbit/s
95th percentile per-packet one-way delay: 50.571 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 36.14 Mbit/s
95th percentile per-packet one-way delay: 50.588 ms
Loss rate: 1.13%
```

## Run 4: Report of QUIC Cubic — Data Link

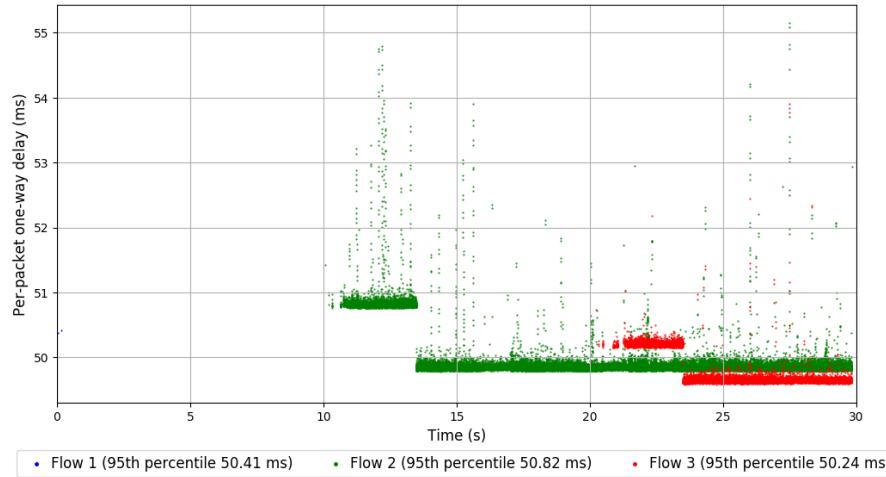
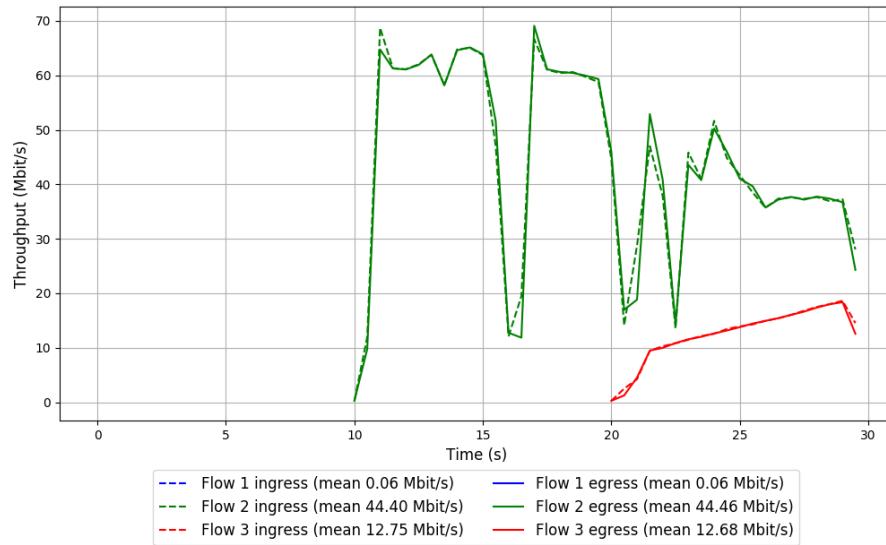


```
Run 5: Statistics of QUIC Cubic

Start at: 2017-09-08 05:06:48
End at: 2017-09-08 05:07:18

# Below is generated by plot.py at 2017-09-08 09:59:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 33.58 Mbit/s
95th percentile per-packet one-way delay: 50.816 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 50.414 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 44.46 Mbit/s
95th percentile per-packet one-way delay: 50.819 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 12.68 Mbit/s
95th percentile per-packet one-way delay: 50.238 ms
Loss rate: 1.58%
```

Run 5: Report of QUIC Cubic — Data Link



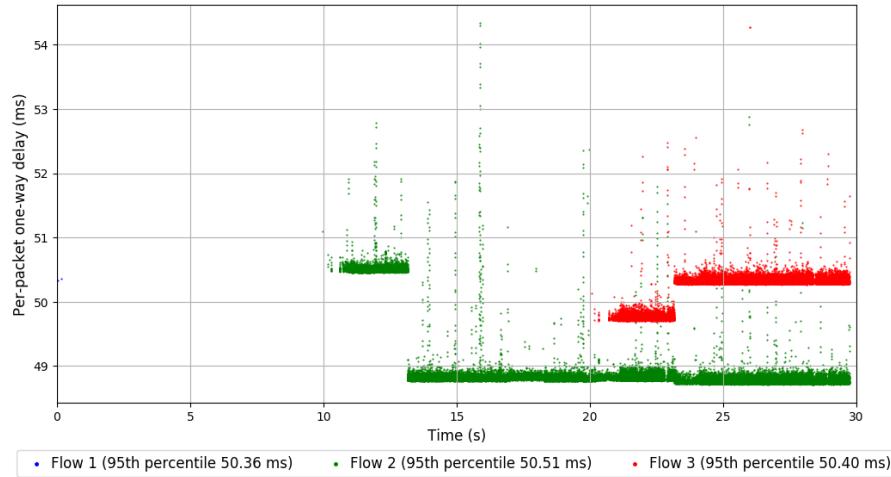
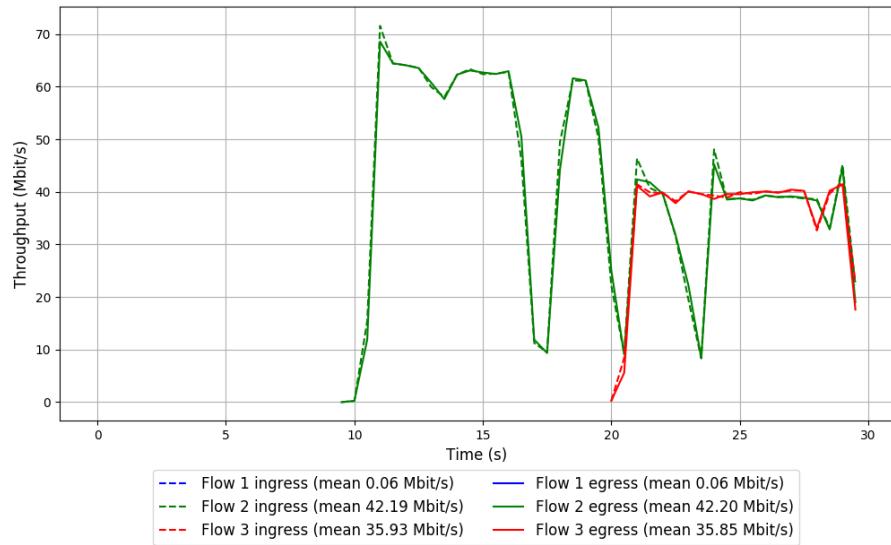
Run 6: Statistics of QUIC Cubic

Start at: 2017-09-08 05:19:08

End at: 2017-09-08 05:19:38

```
# Below is generated by plot.py at 2017-09-08 10:00:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 39.78 Mbit/s
95th percentile per-packet one-way delay: 50.501 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 50.363 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 42.20 Mbit/s
95th percentile per-packet one-way delay: 50.508 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 35.85 Mbit/s
95th percentile per-packet one-way delay: 50.400 ms
Loss rate: 1.24%
```

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



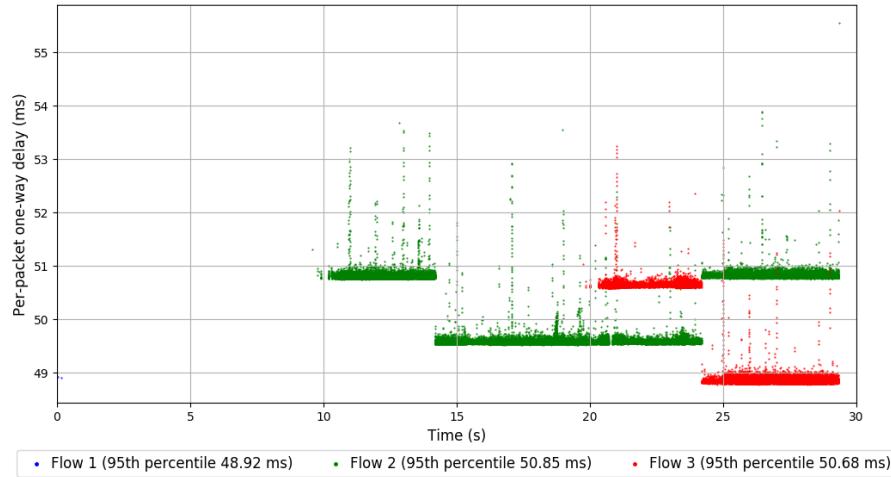
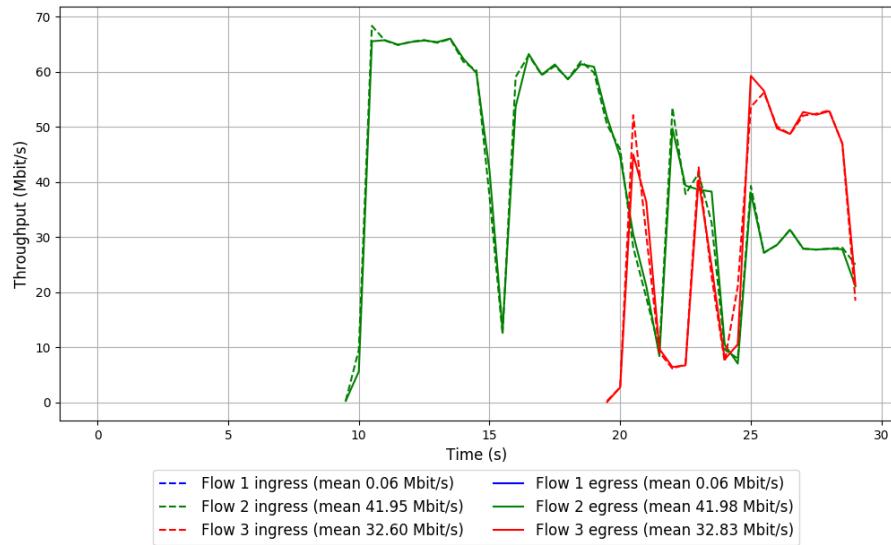
Run 7: Statistics of QUIC Cubic

Start at: 2017-09-08 05:31:17

End at: 2017-09-08 05:31:47

```
# Below is generated by plot.py at 2017-09-08 10:00:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 39.06 Mbit/s
95th percentile per-packet one-way delay: 50.839 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 48.921 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 41.98 Mbit/s
95th percentile per-packet one-way delay: 50.851 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 32.83 Mbit/s
95th percentile per-packet one-way delay: 50.681 ms
Loss rate: 0.35%
```

Run 7: Report of QUIC Cubic — Data Link



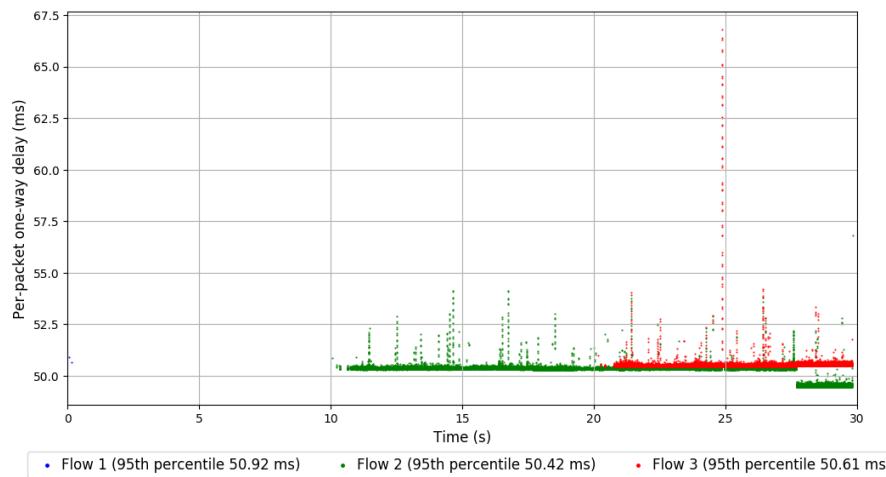
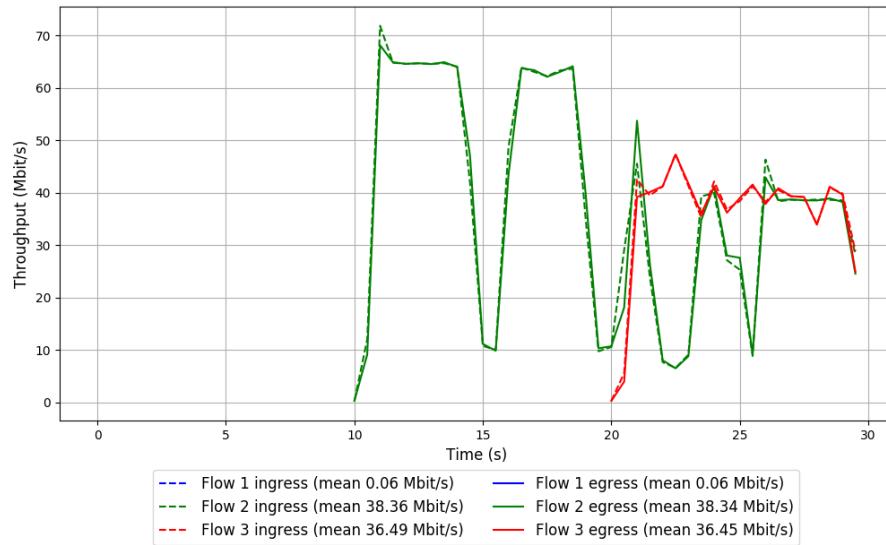
Run 8: Statistics of QUIC Cubic

Start at: 2017-09-08 05:43:24

End at: 2017-09-08 05:43:54

```
# Below is generated by plot.py at 2017-09-08 10:00:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 37.29 Mbit/s
95th percentile per-packet one-way delay: 50.556 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 50.918 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 38.34 Mbit/s
95th percentile per-packet one-way delay: 50.423 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 36.45 Mbit/s
95th percentile per-packet one-way delay: 50.608 ms
Loss rate: 1.12%
```

Run 8: Report of QUIC Cubic — Data Link



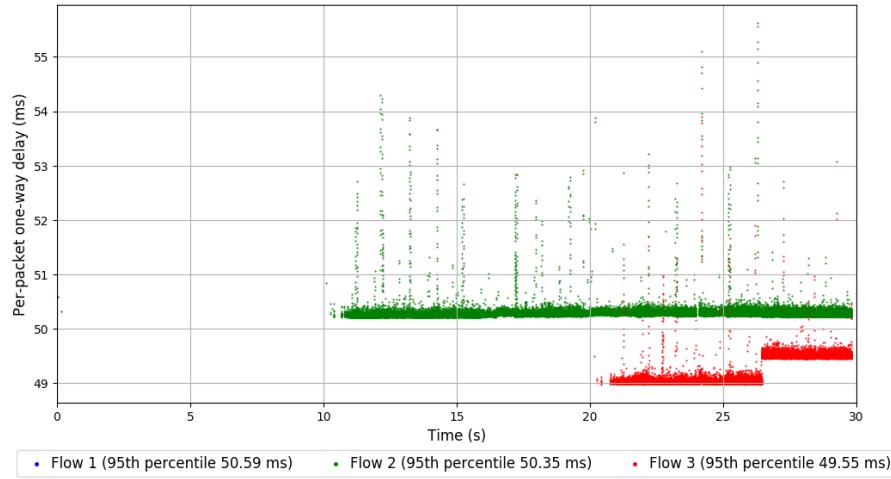
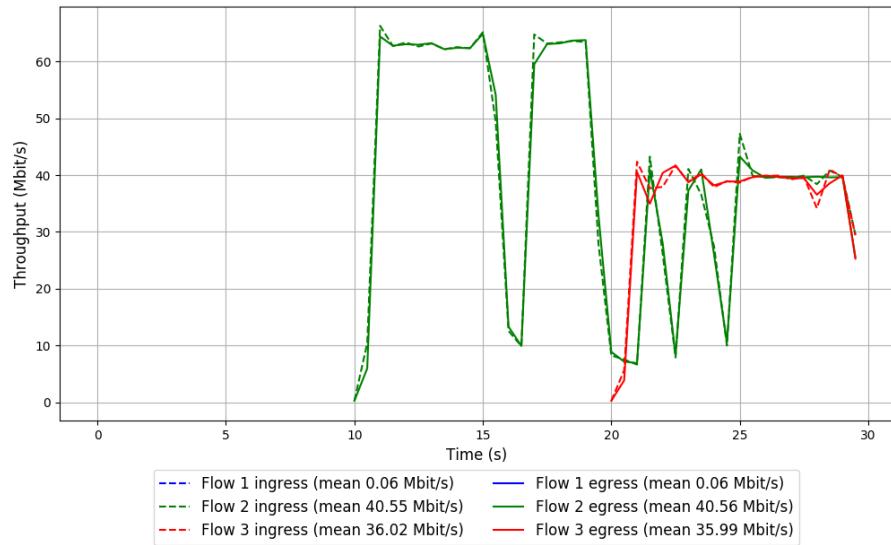
Run 9: Statistics of QUIC Cubic

Start at: 2017-09-08 05:55:35

End at: 2017-09-08 05:56:05

```
# Below is generated by plot.py at 2017-09-08 10:00:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 38.56 Mbit/s
95th percentile per-packet one-way delay: 50.333 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 50.586 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 40.56 Mbit/s
95th percentile per-packet one-way delay: 50.350 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 35.99 Mbit/s
95th percentile per-packet one-way delay: 49.548 ms
Loss rate: 1.11%
```

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



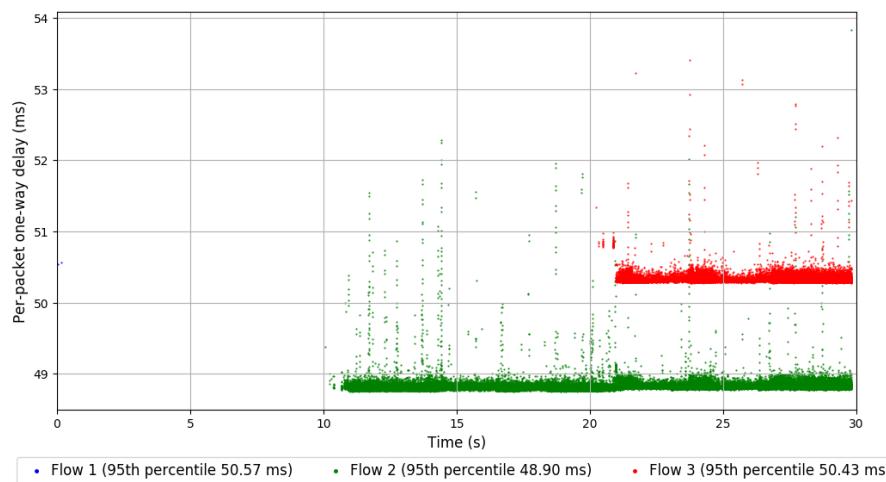
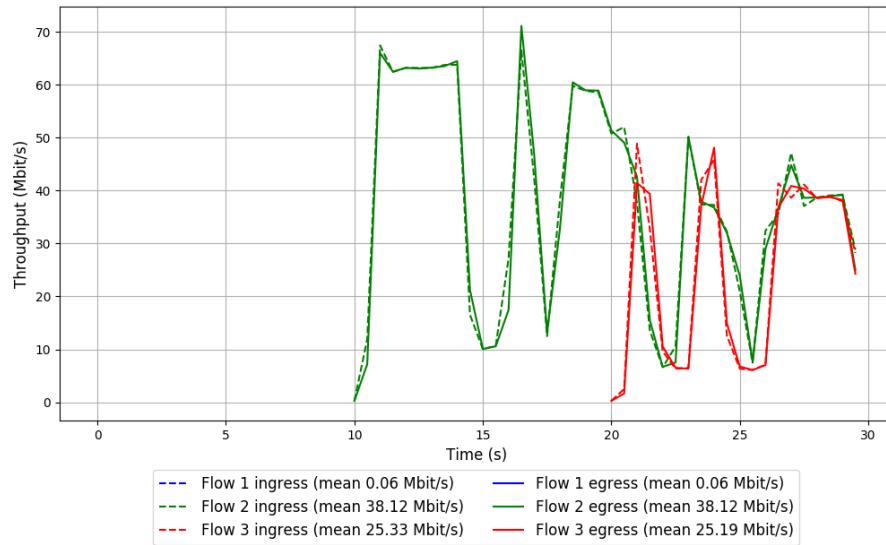
Run 10: Statistics of QUIC Cubic

Start at: 2017-09-08 06:07:51

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

```
# Below is generated by plot.py at 2017-09-08 10:00:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 33.44 Mbit/s
95th percentile per-packet one-way delay: 50.362 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 50.567 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 38.12 Mbit/s
95th percentile per-packet one-way delay: 48.898 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 25.19 Mbit/s
95th percentile per-packet one-way delay: 50.432 ms
Loss rate: 1.57%
```

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

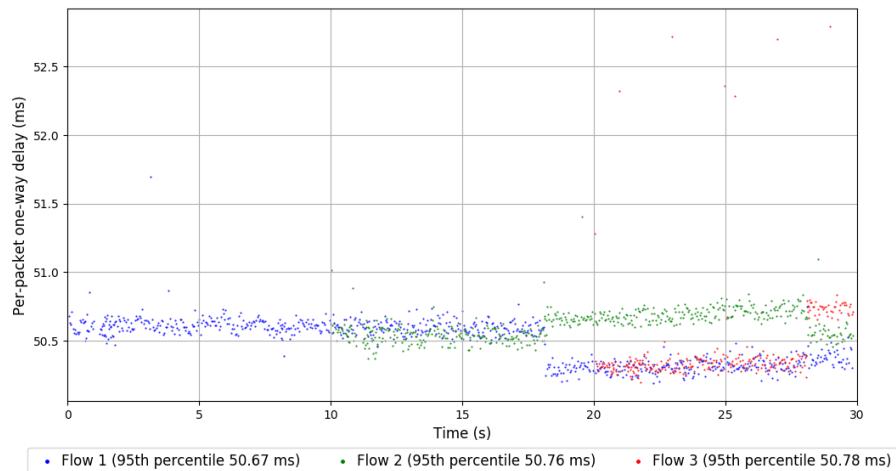
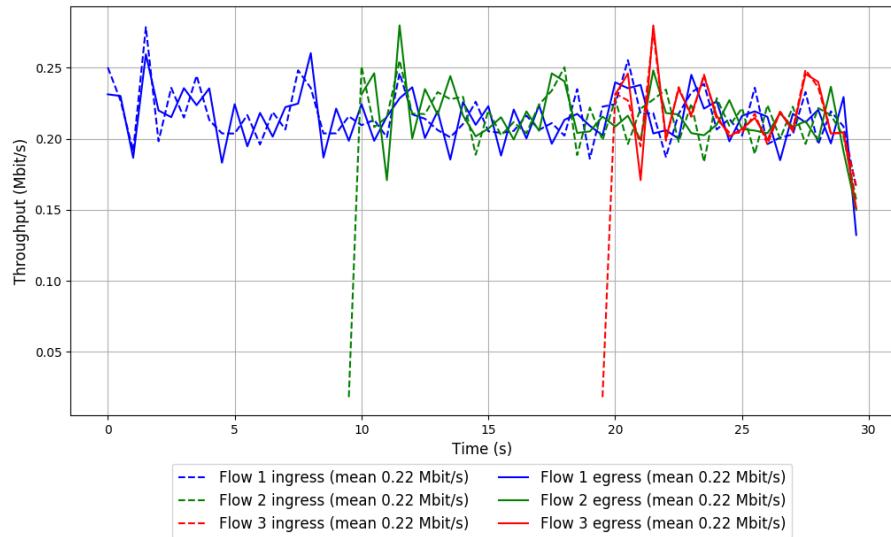


```
Run 1: Statistics of SCReAM

Start at: 2017-09-08 04:21:03
End at: 2017-09-08 04:21:33

# Below is generated by plot.py at 2017-09-08 10:00:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.746 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.673 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.758 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.780 ms
Loss rate: 0.73%
```

Run 1: Report of SCReAM — Data Link



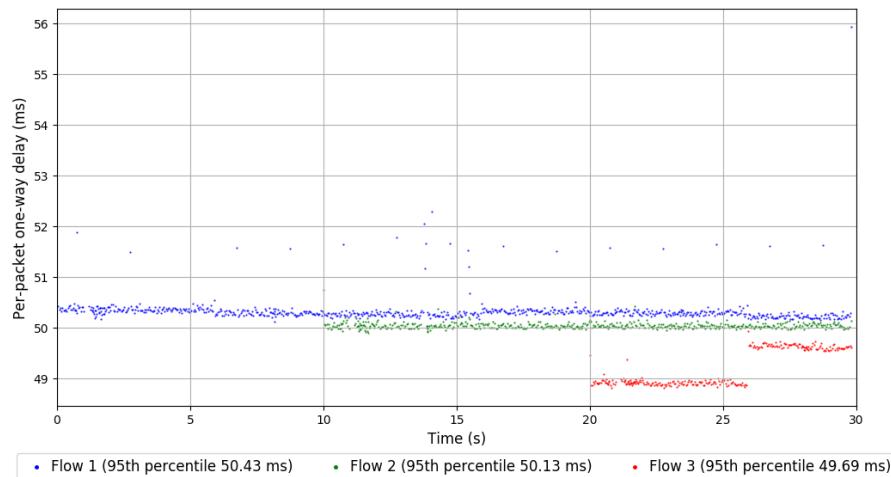
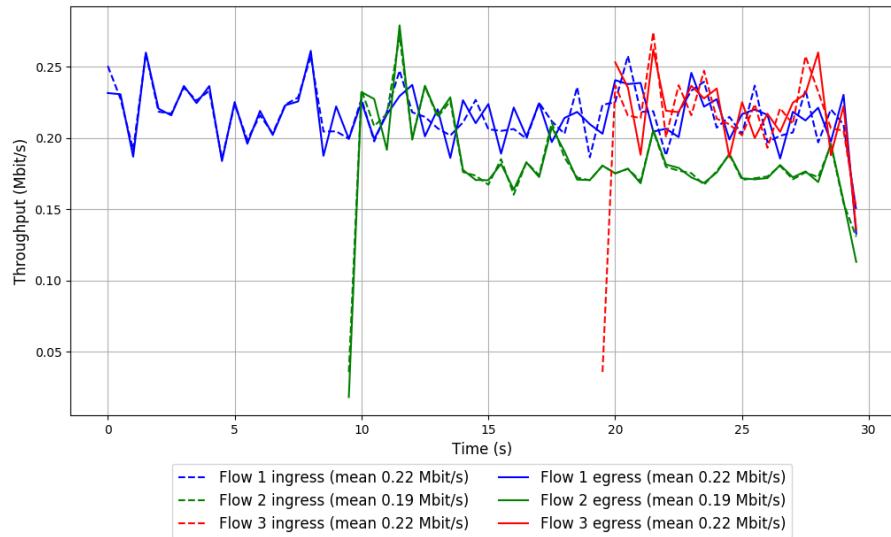
Run 2: Statistics of SCReAM

Start at: 2017-09-08 04:33:26

End at: 2017-09-08 04:33:56

```
# Below is generated by plot.py at 2017-09-08 10:00:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 50.397 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.432 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 50.130 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.685 ms
Loss rate: 0.74%
```

Run 2: Report of SCReAM — Data Link



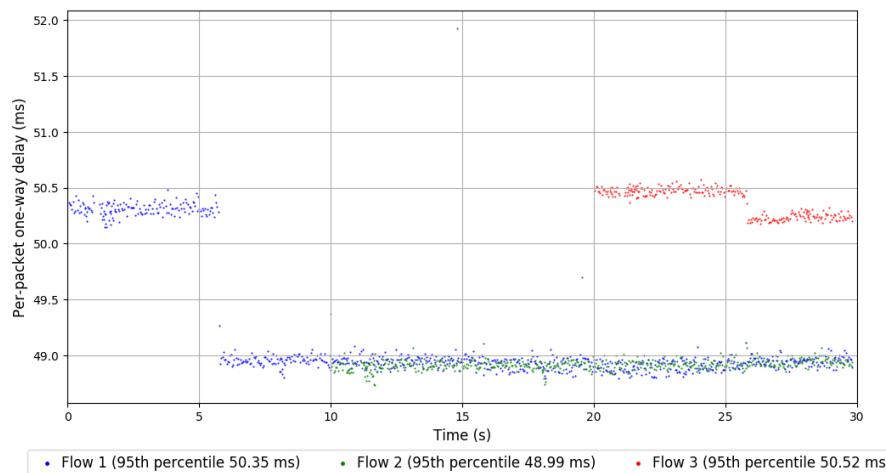
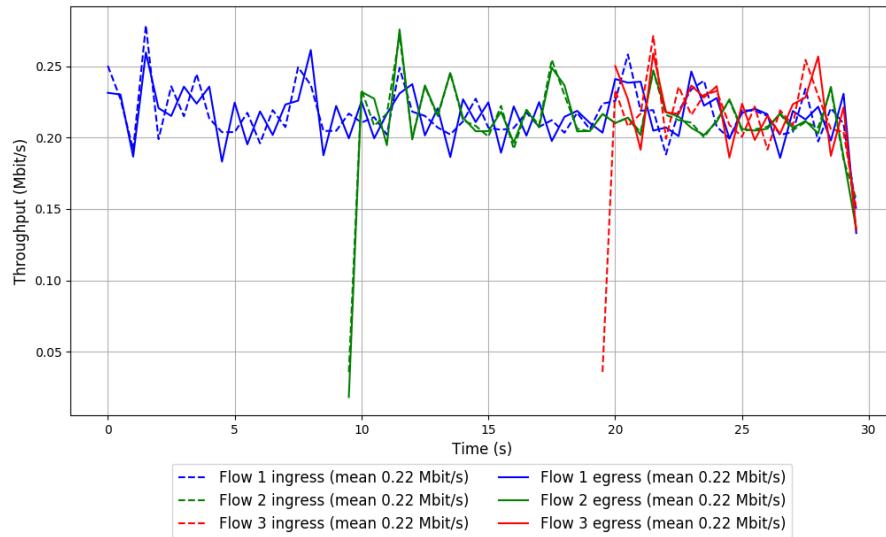
Run 3: Statistics of SCReAM

Start at: 2017-09-08 04:45:36

End at: 2017-09-08 04:46:06

```
# Below is generated by plot.py at 2017-09-08 10:00:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.474 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.349 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 48.992 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.522 ms
Loss rate: 0.73%
```

Run 3: Report of SCReAM — Data Link



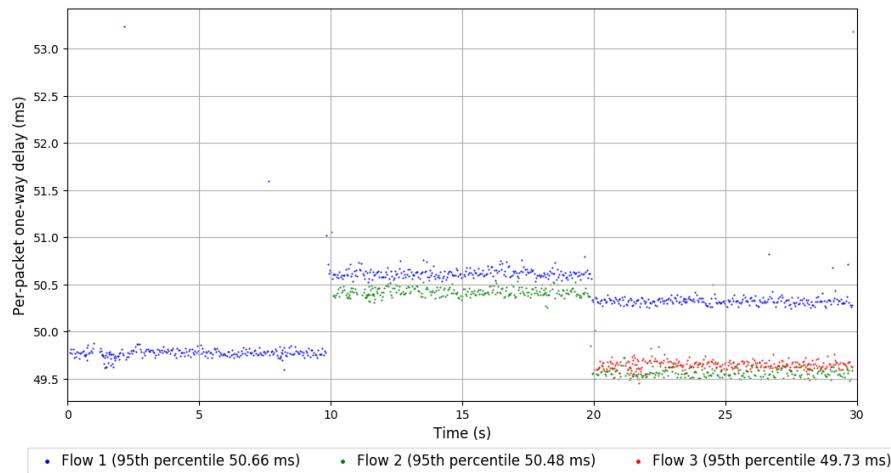
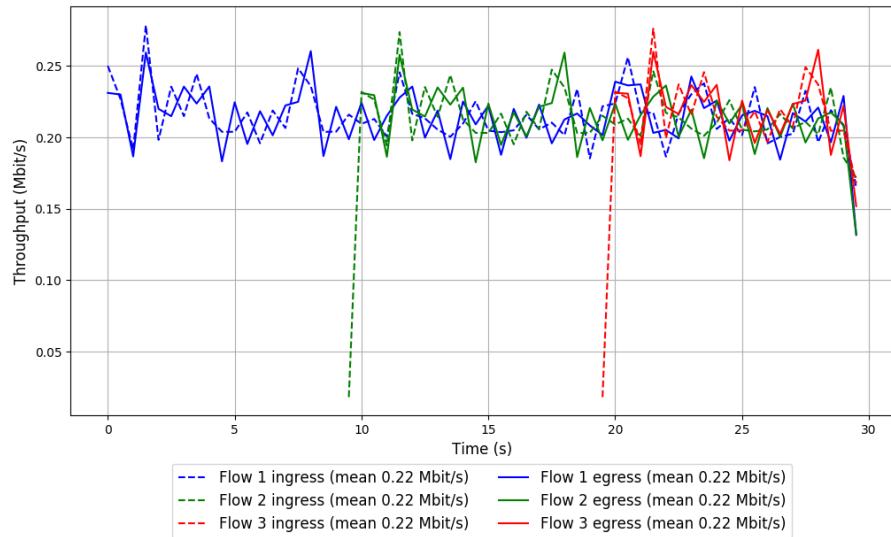
Run 4: Statistics of SCReAM

Start at: 2017-09-08 04:57:52

End at: 2017-09-08 04:58:22

```
# Below is generated by plot.py at 2017-09-08 10:00:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.637 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.661 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.480 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.730 ms
Loss rate: 0.74%
```

Run 4: Report of SCReAM — Data Link



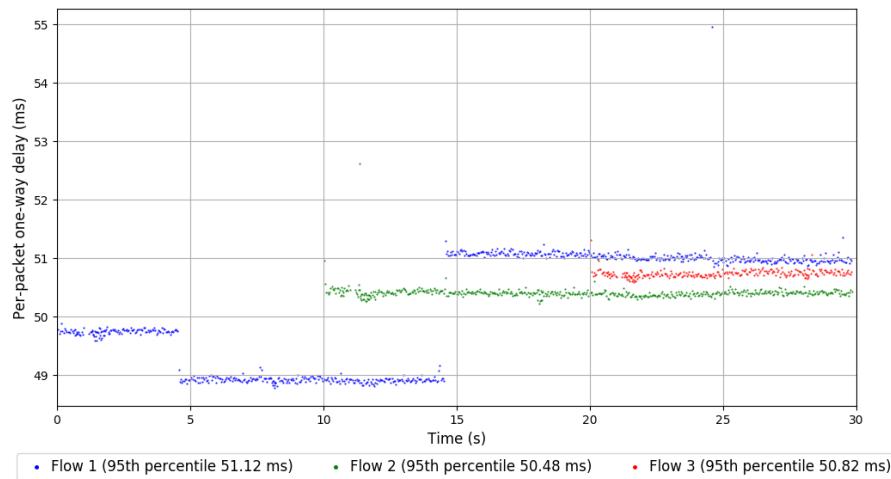
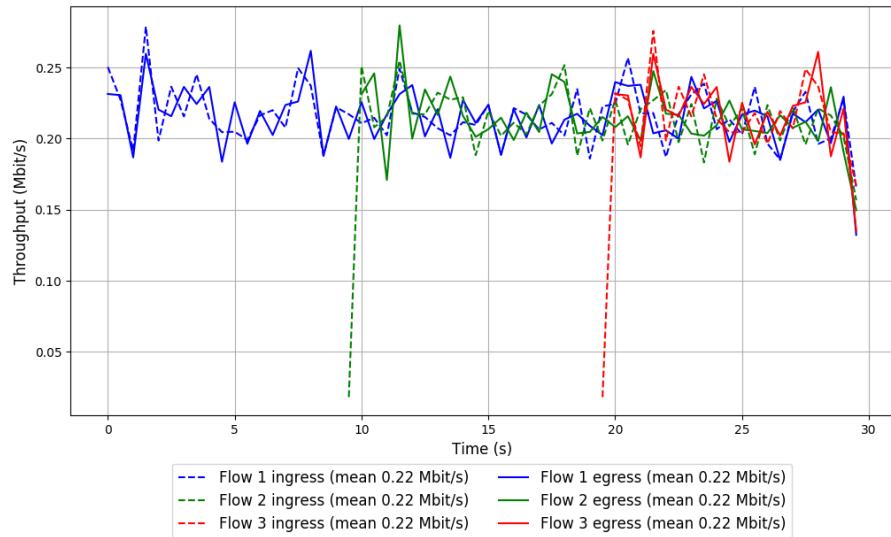
Run 5: Statistics of SCReAM

Start at: 2017-09-08 05:10:17

End at: 2017-09-08 05:10:47

```
# Below is generated by plot.py at 2017-09-08 10:00:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 51.087 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.115 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.479 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.820 ms
Loss rate: 1.11%
```

Run 5: Report of SCReAM — Data Link



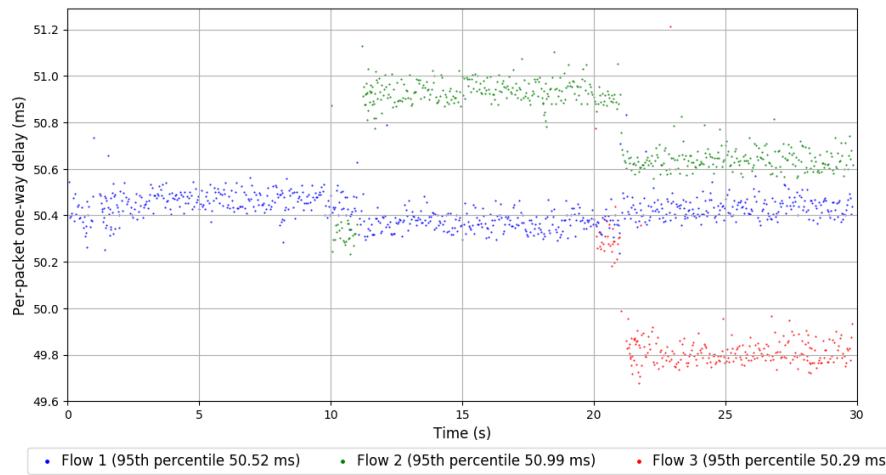
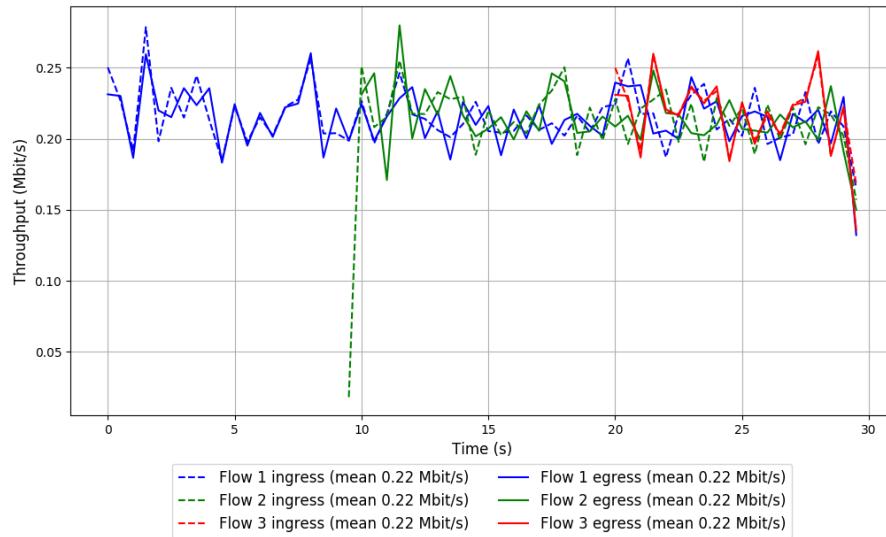
Run 6: Statistics of SCReAM

Start at: 2017-09-08 05:22:31

End at: 2017-09-08 05:23:01

```
# Below is generated by plot.py at 2017-09-08 10:00:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.956 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.516 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.993 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.289 ms
Loss rate: 1.11%
```

Run 6: Report of SCReAM — Data Link



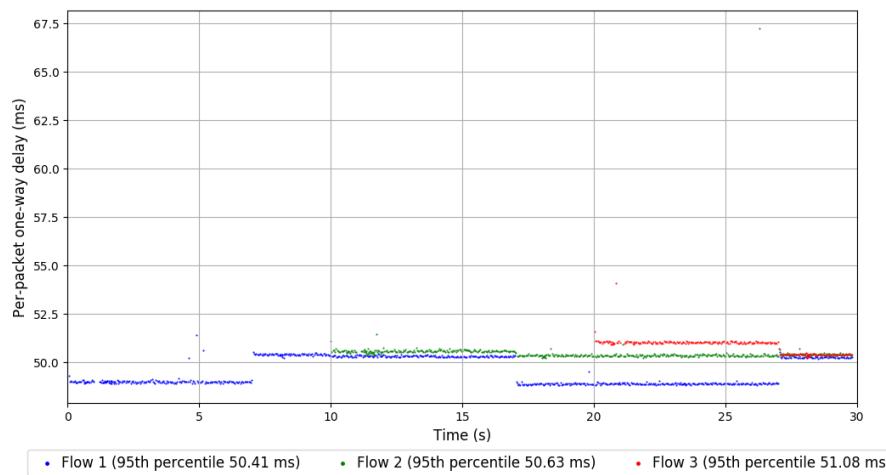
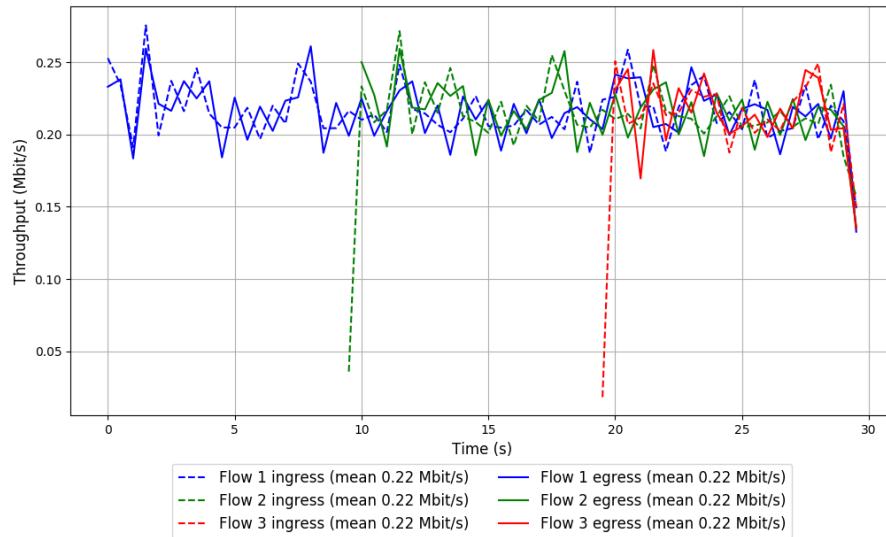
Run 7: Statistics of SCReAM

Start at: 2017-09-08 05:34:34

End at: 2017-09-08 05:35:04

```
# Below is generated by plot.py at 2017-09-08 10:00:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 51.032 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.408 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.634 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.082 ms
Loss rate: 1.12%
```

Run 7: Report of SCReAM — Data Link



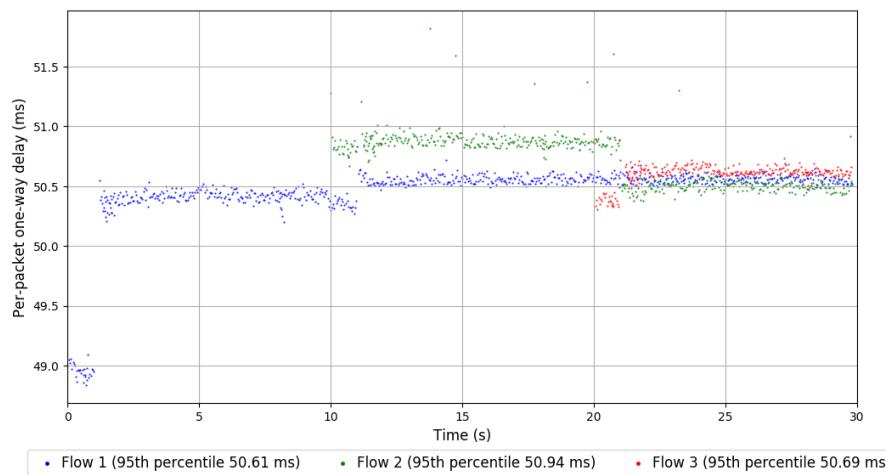
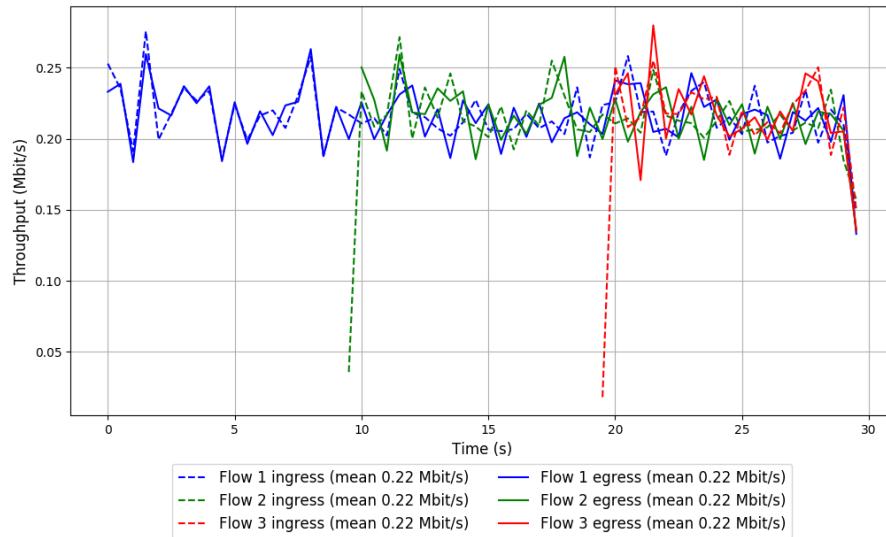
Run 8: Statistics of SCReAM

Start at: 2017-09-08 05:46:51

End at: 2017-09-08 05:47:21

```
# Below is generated by plot.py at 2017-09-08 10:00:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.904 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.614 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.939 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.691 ms
Loss rate: 1.11%
```

## Run 8: Report of SCReAM — Data Link



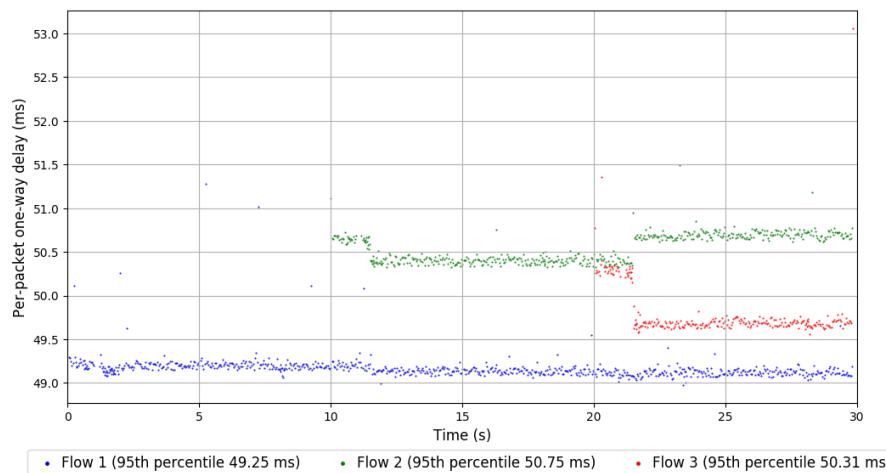
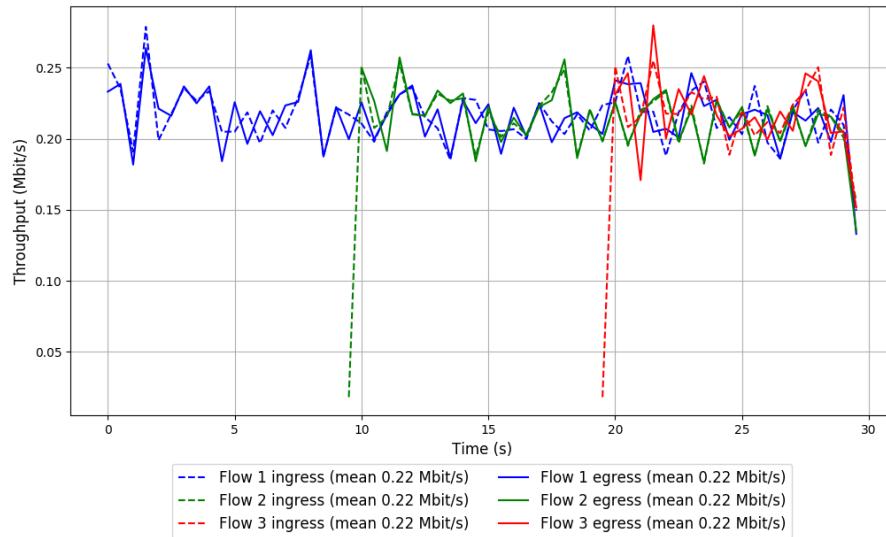
Run 9: Statistics of SCReAM

Start at: 2017-09-08 05:59:00

End at: 2017-09-08 05:59:30

```
# Below is generated by plot.py at 2017-09-08 10:00:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.713 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.250 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.751 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.315 ms
Loss rate: 0.74%
```

Run 9: Report of SCReAM — Data Link



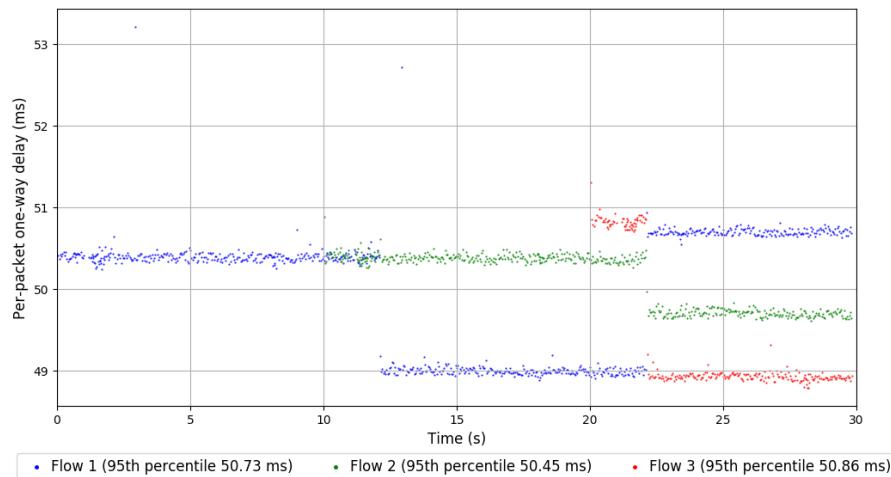
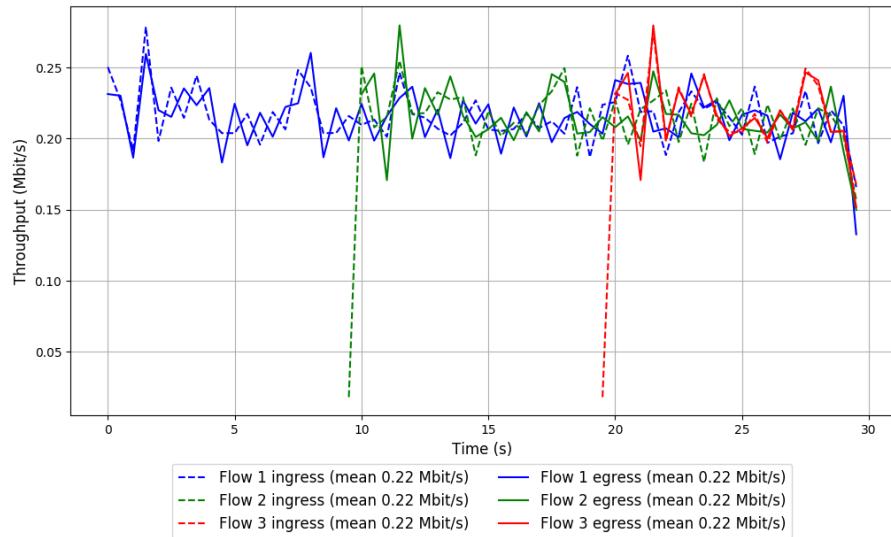
Run 10: Statistics of SCReAM

Start at: 2017-09-08 06:11:09

End at: 2017-09-08 06:11:39

```
# Below is generated by plot.py at 2017-09-08 10:00:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.750 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.732 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.450 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.863 ms
Loss rate: 0.74%
```

Run 10: Report of SCReAM — Data Link



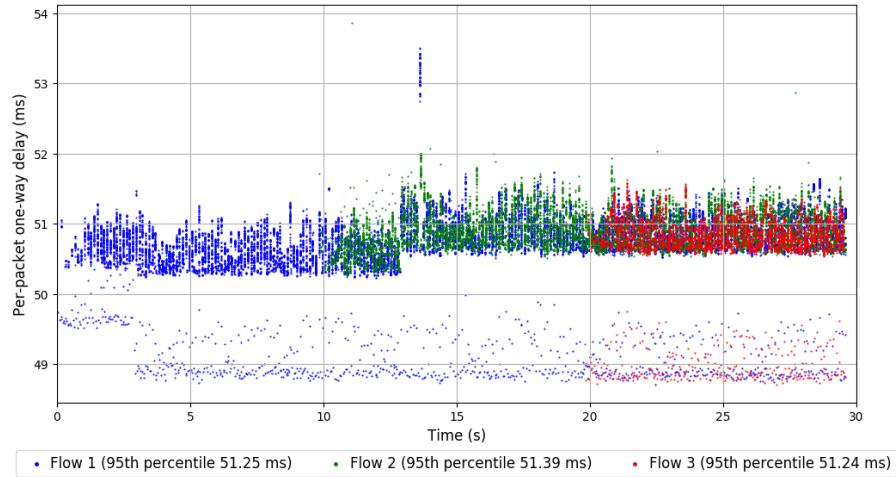
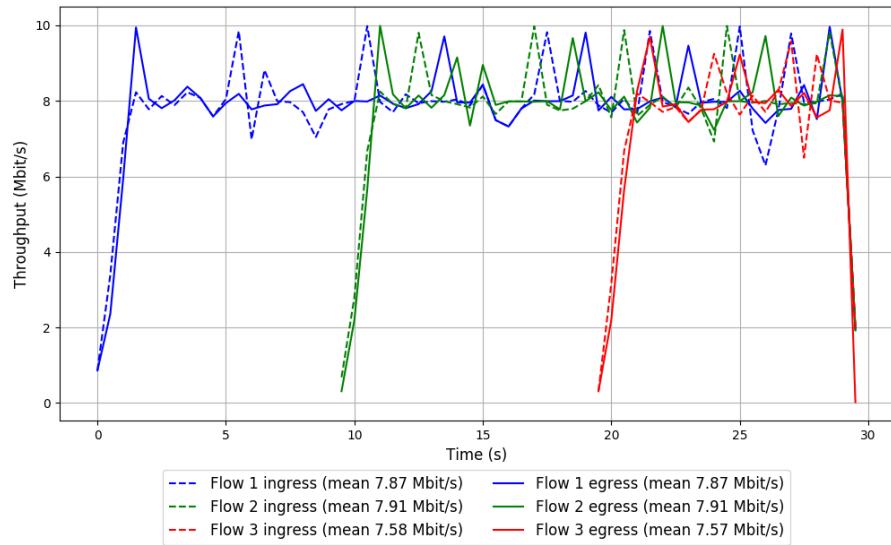
Run 1: Statistics of Sprout

Start at: 2017-09-08 04:14:28

End at: 2017-09-08 04:14:58

```
# Below is generated by plot.py at 2017-09-08 10:00:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.67 Mbit/s
95th percentile per-packet one-way delay: 51.306 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 7.87 Mbit/s
95th percentile per-packet one-way delay: 51.248 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 7.91 Mbit/s
95th percentile per-packet one-way delay: 51.393 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 7.57 Mbit/s
95th percentile per-packet one-way delay: 51.237 ms
Loss rate: 1.32%
```

## Run 1: Report of Sprout — Data Link



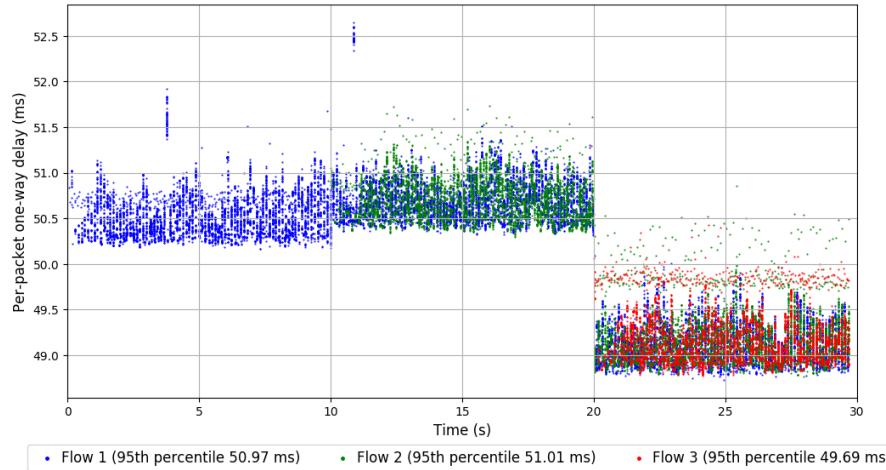
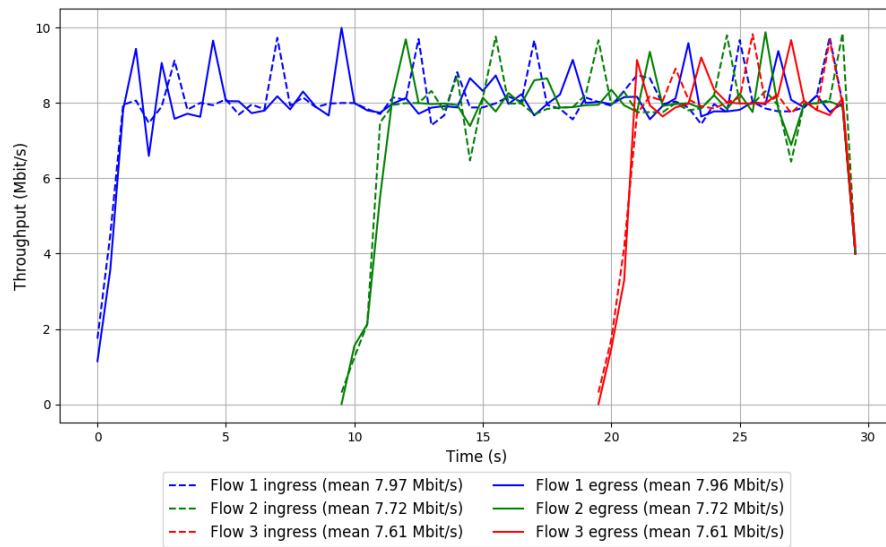
Run 2: Statistics of Sprout

Start at: 2017-09-08 04:26:41

End at: 2017-09-08 04:27:11

```
# Below is generated by plot.py at 2017-09-08 10:00:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.61 Mbit/s
95th percentile per-packet one-way delay: 50.963 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 7.96 Mbit/s
95th percentile per-packet one-way delay: 50.972 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 7.72 Mbit/s
95th percentile per-packet one-way delay: 51.009 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 7.61 Mbit/s
95th percentile per-packet one-way delay: 49.691 ms
Loss rate: 1.09%
```

## Run 2: Report of Sprout — Data Link



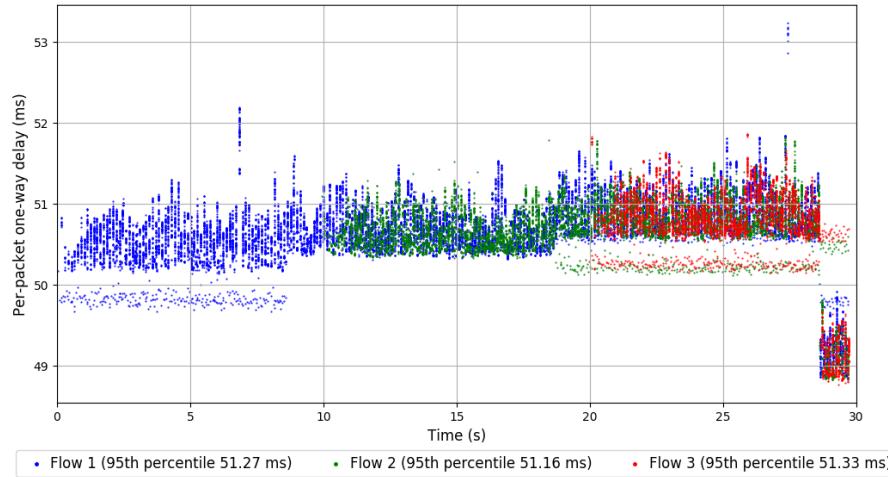
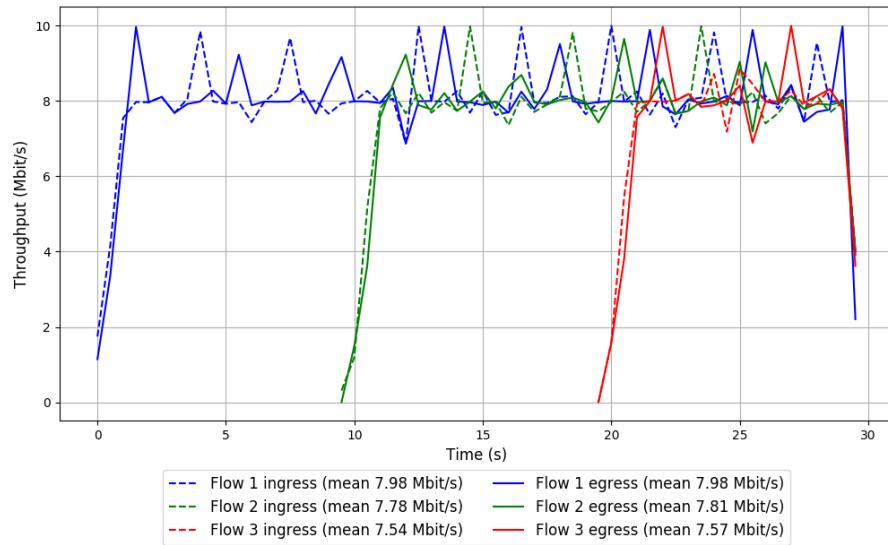
Run 3: Statistics of Sprout

Start at: 2017-09-08 04:39:03

End at: 2017-09-08 04:39:33

```
# Below is generated by plot.py at 2017-09-08 10:00:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.68 Mbit/s
95th percentile per-packet one-way delay: 51.245 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 7.98 Mbit/s
95th percentile per-packet one-way delay: 51.268 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 7.81 Mbit/s
95th percentile per-packet one-way delay: 51.163 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 7.57 Mbit/s
95th percentile per-packet one-way delay: 51.331 ms
Loss rate: 0.18%
```

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



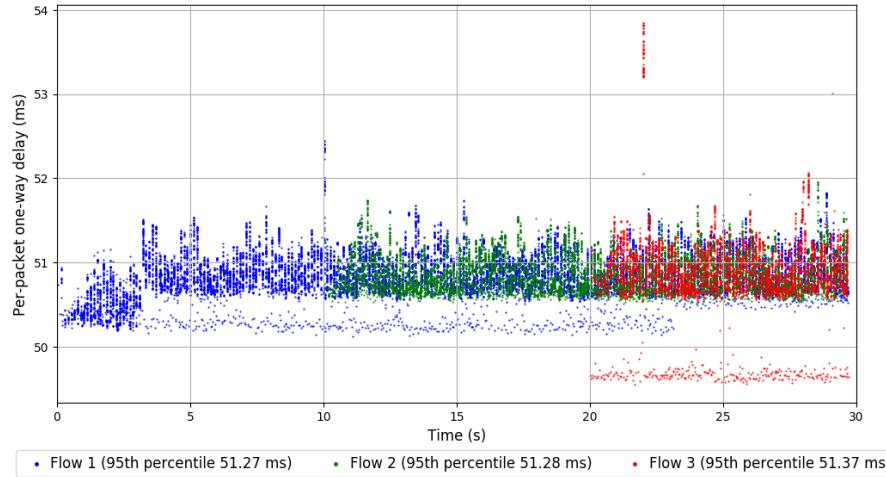
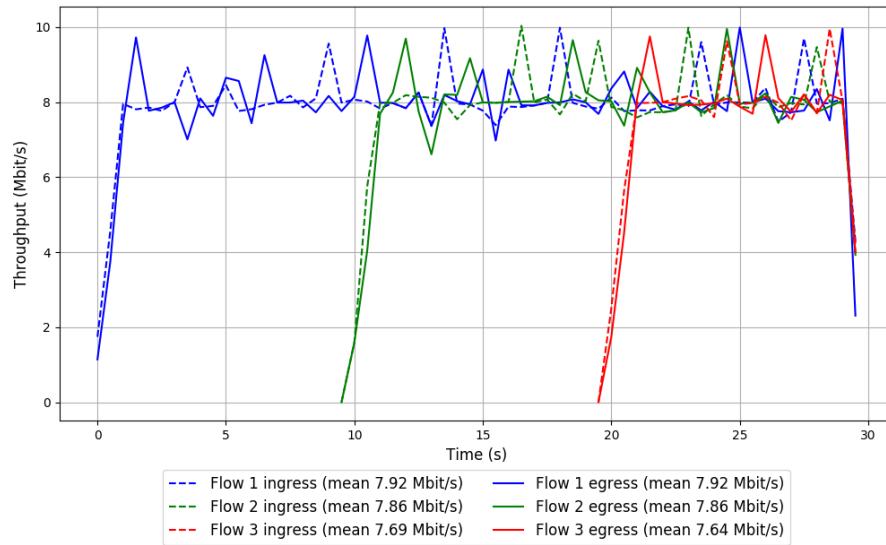
Run 4: Statistics of Sprout

Start at: 2017-09-08 04:51:08

End at: 2017-09-08 04:51:38

```
# Below is generated by plot.py at 2017-09-08 10:00:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.66 Mbit/s
95th percentile per-packet one-way delay: 51.293 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 7.92 Mbit/s
95th percentile per-packet one-way delay: 51.274 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 7.86 Mbit/s
95th percentile per-packet one-way delay: 51.276 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 7.64 Mbit/s
95th percentile per-packet one-way delay: 51.372 ms
Loss rate: 1.30%
```

Run 4: Report of Sprout — Data Link



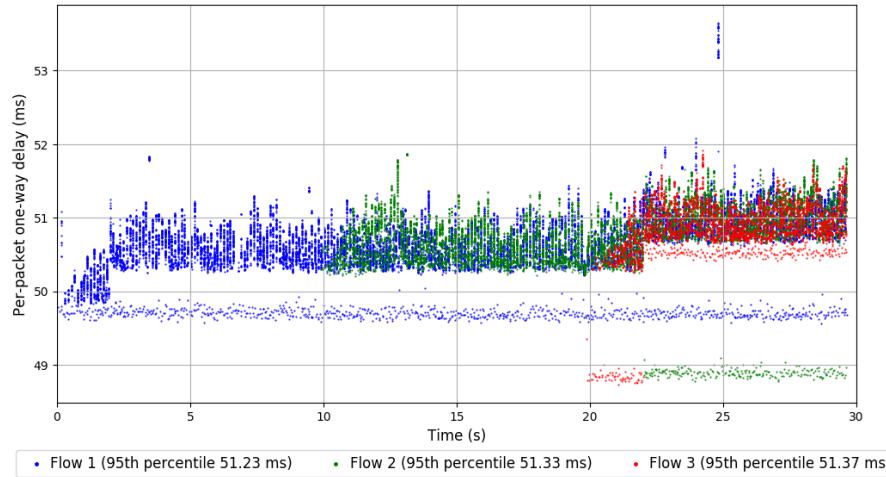
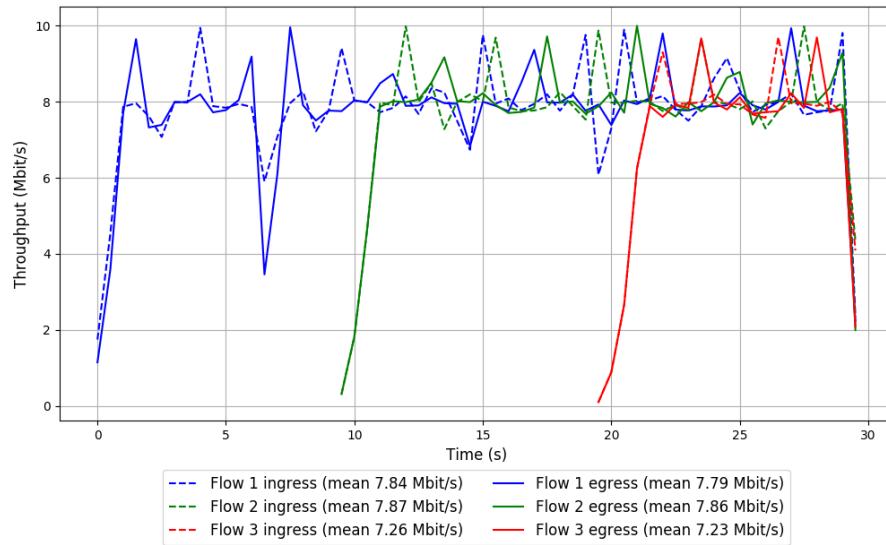
Run 5: Statistics of Sprout

Start at: 2017-09-08 05:03:29

End at: 2017-09-08 05:03:59

```
# Below is generated by plot.py at 2017-09-08 10:00:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.43 Mbit/s
95th percentile per-packet one-way delay: 51.293 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 7.79 Mbit/s
95th percentile per-packet one-way delay: 51.227 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 7.86 Mbit/s
95th percentile per-packet one-way delay: 51.333 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 7.23 Mbit/s
95th percentile per-packet one-way delay: 51.372 ms
Loss rate: 1.64%
```

Run 5: Report of Sprout — Data Link



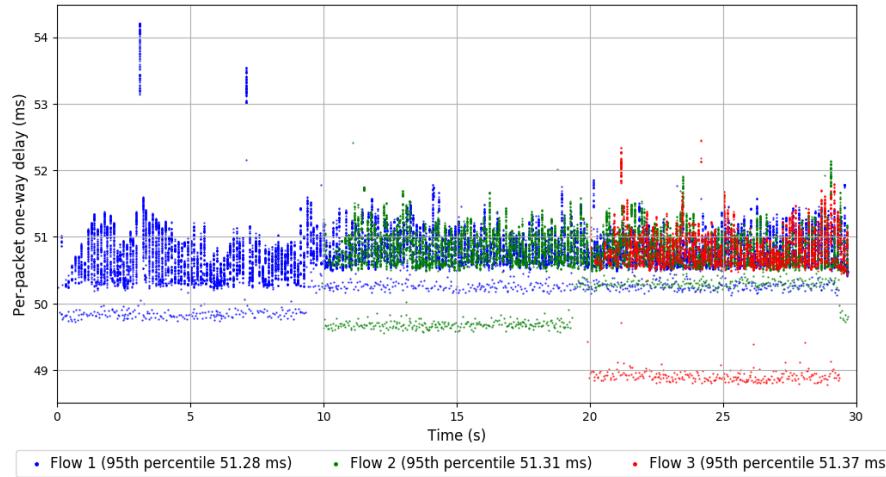
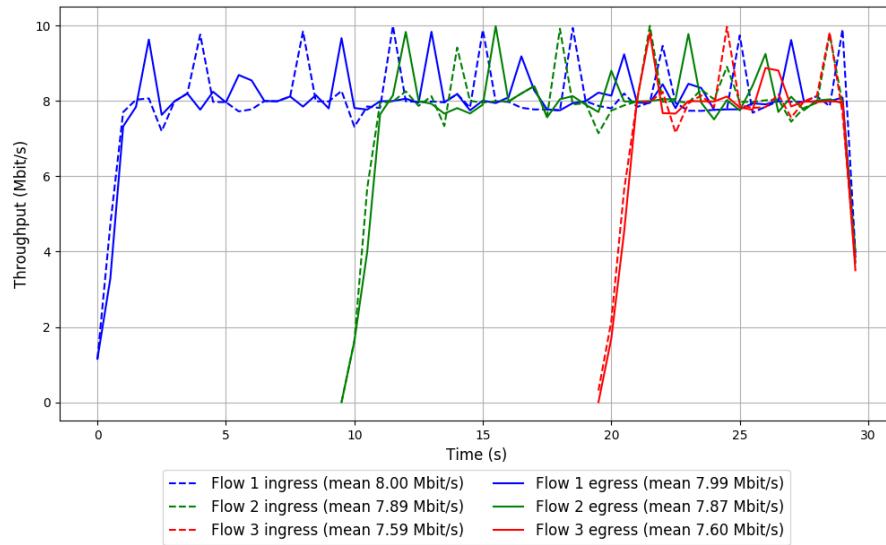
Run 6: Statistics of Sprout

Start at: 2017-09-08 05:15:52

End at: 2017-09-08 05:16:22

```
# Below is generated by plot.py at 2017-09-08 10:00:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.73 Mbit/s
95th percentile per-packet one-way delay: 51.309 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 7.99 Mbit/s
95th percentile per-packet one-way delay: 51.284 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 7.87 Mbit/s
95th percentile per-packet one-way delay: 51.313 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 7.60 Mbit/s
95th percentile per-packet one-way delay: 51.366 ms
Loss rate: 1.27%
```

Run 6: Report of Sprout — Data Link



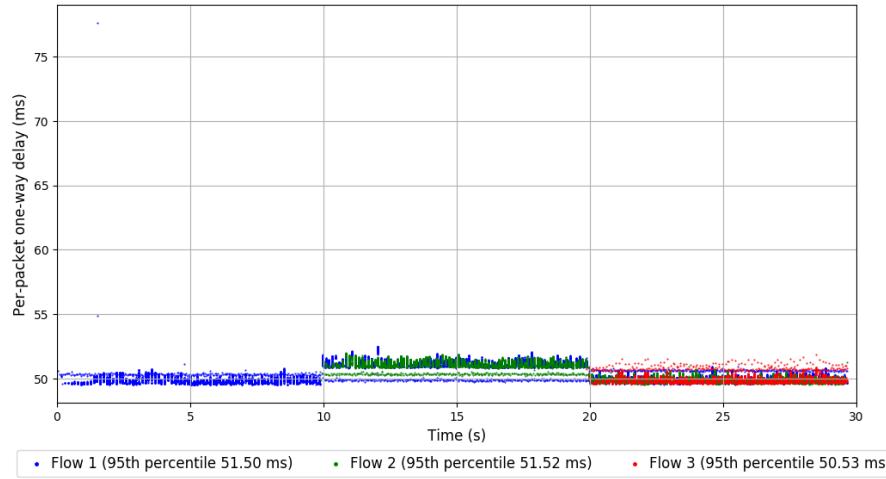
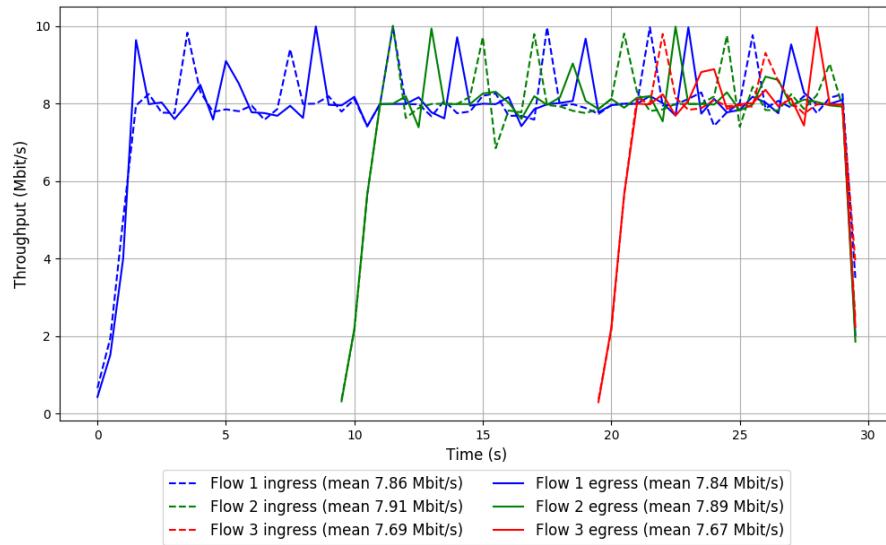
Run 7: Statistics of Sprout

Start at: 2017-09-08 05:28:01

End at: 2017-09-08 05:28:31

```
# Below is generated by plot.py at 2017-09-08 10:00:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.64 Mbit/s
95th percentile per-packet one-way delay: 51.479 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 7.84 Mbit/s
95th percentile per-packet one-way delay: 51.499 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 7.89 Mbit/s
95th percentile per-packet one-way delay: 51.516 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 7.67 Mbit/s
95th percentile per-packet one-way delay: 50.535 ms
Loss rate: 1.09%
```

## Run 7: Report of Sprout — Data Link



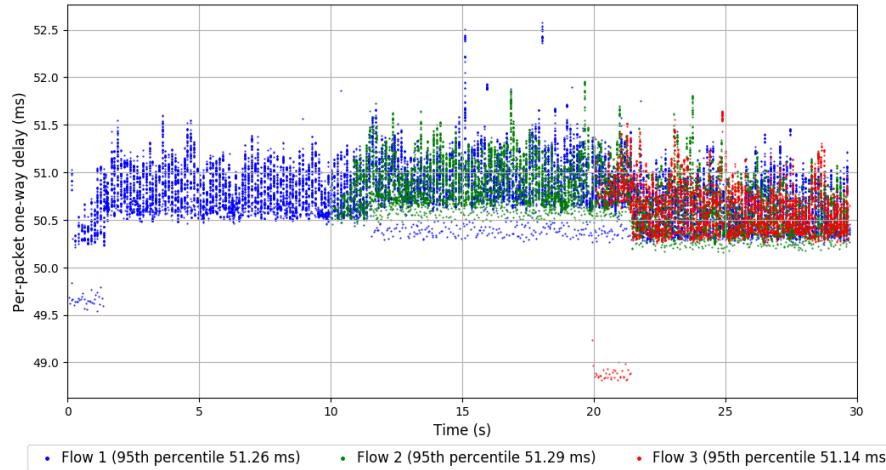
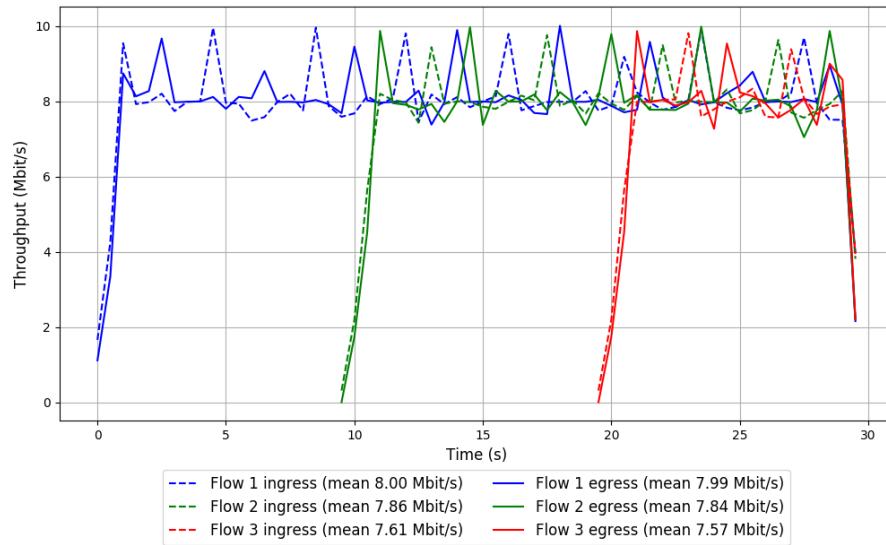
Run 8: Statistics of Sprout

Start at: 2017-09-08 05:40:10

End at: 2017-09-08 05:40:40

```
# Below is generated by plot.py at 2017-09-08 10:00:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.71 Mbit/s
95th percentile per-packet one-way delay: 51.260 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 7.99 Mbit/s
95th percentile per-packet one-way delay: 51.263 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 7.84 Mbit/s
95th percentile per-packet one-way delay: 51.293 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 7.57 Mbit/s
95th percentile per-packet one-way delay: 51.144 ms
Loss rate: 1.25%
```

## Run 8: Report of Sprout — Data Link



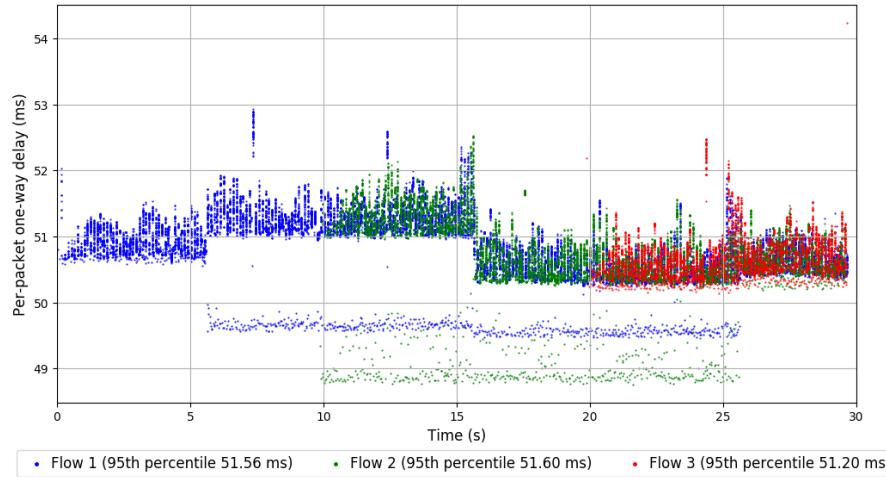
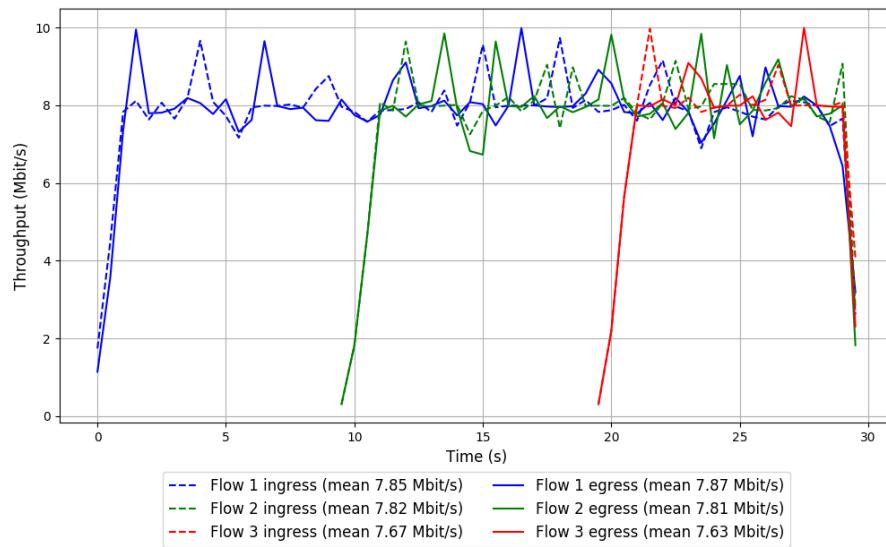
Run 9: Statistics of Sprout

Start at: 2017-09-08 05:52:26

End at: 2017-09-08 05:52:56

```
# Below is generated by plot.py at 2017-09-08 10:00:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.60 Mbit/s
95th percentile per-packet one-way delay: 51.556 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 7.87 Mbit/s
95th percentile per-packet one-way delay: 51.564 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 7.81 Mbit/s
95th percentile per-packet one-way delay: 51.605 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 7.63 Mbit/s
95th percentile per-packet one-way delay: 51.203 ms
Loss rate: 1.47%
```

Run 9: Report of Sprout — Data Link



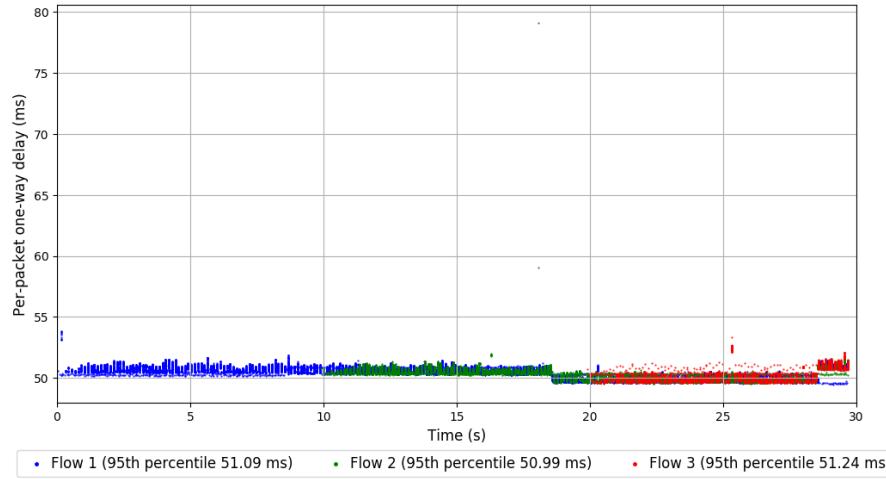
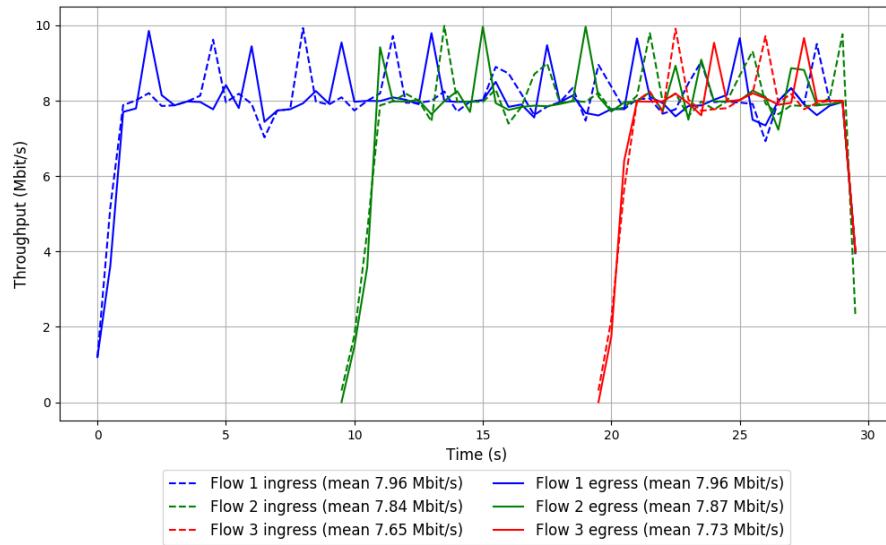
Run 10: Statistics of Sprout

Start at: 2017-09-08 06:04:33

End at: 2017-09-08 06:05:03

```
# Below is generated by plot.py at 2017-09-08 10:00:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.76 Mbit/s
95th percentile per-packet one-way delay: 51.076 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 7.96 Mbit/s
95th percentile per-packet one-way delay: 51.086 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 7.87 Mbit/s
95th percentile per-packet one-way delay: 50.993 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 7.73 Mbit/s
95th percentile per-packet one-way delay: 51.240 ms
Loss rate: 0.01%
```

## Run 10: Report of Sprout — Data Link



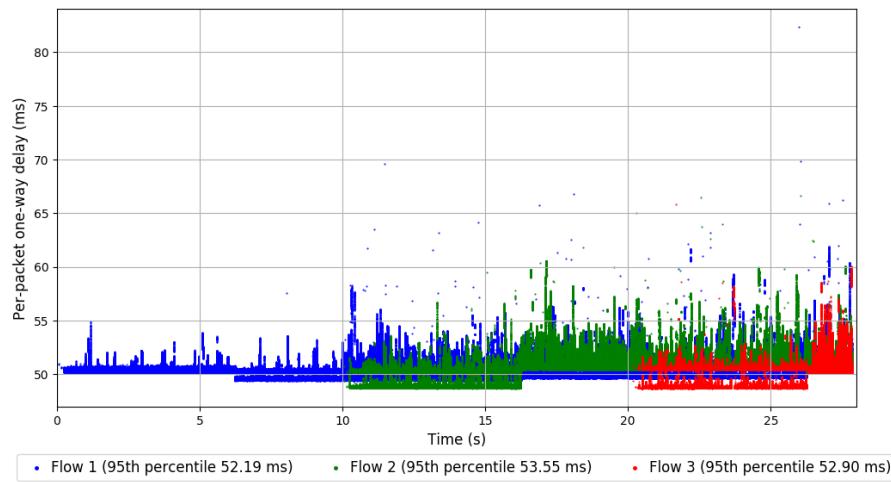
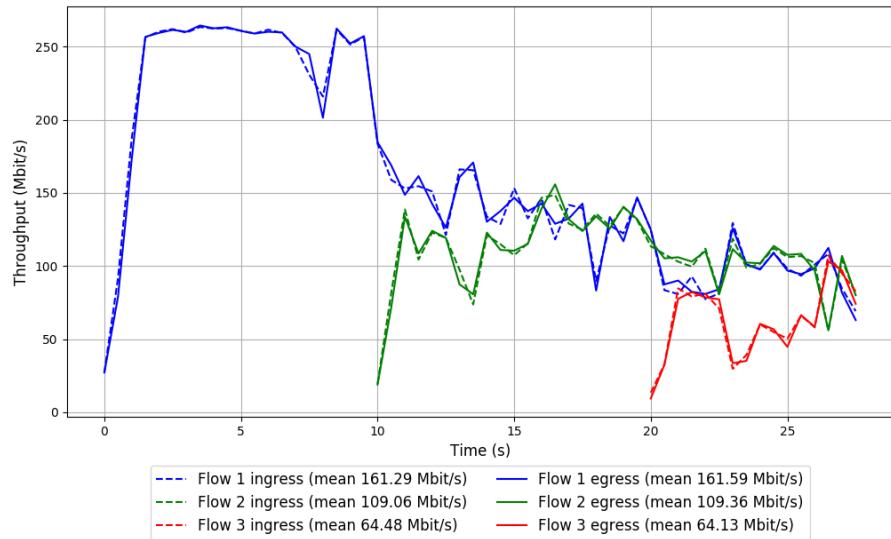
Run 1: Statistics of TaoVA-100x

Start at: 2017-09-08 04:16:03

End at: 2017-09-08 04:16:33

```
# Below is generated by plot.py at 2017-09-08 10:02:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 249.36 Mbit/s
95th percentile per-packet one-way delay: 52.753 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 161.59 Mbit/s
95th percentile per-packet one-way delay: 52.194 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 109.36 Mbit/s
95th percentile per-packet one-way delay: 53.553 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 64.13 Mbit/s
95th percentile per-packet one-way delay: 52.897 ms
Loss rate: 1.81%
```

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



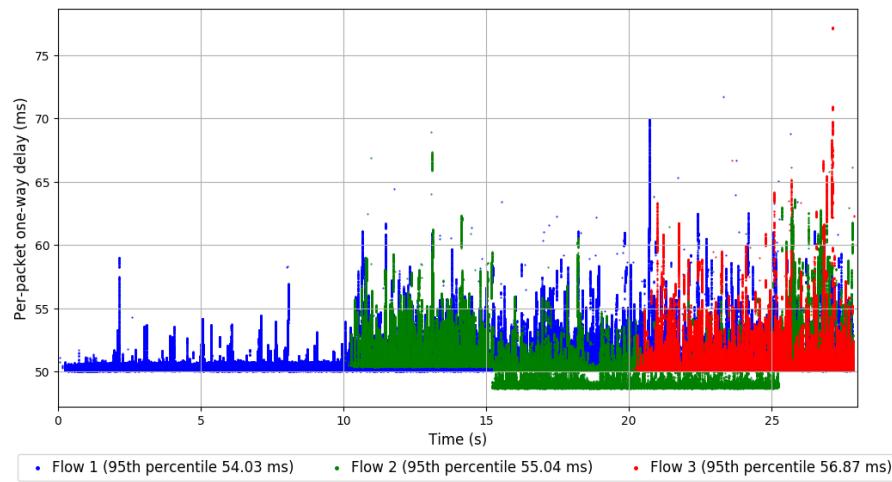
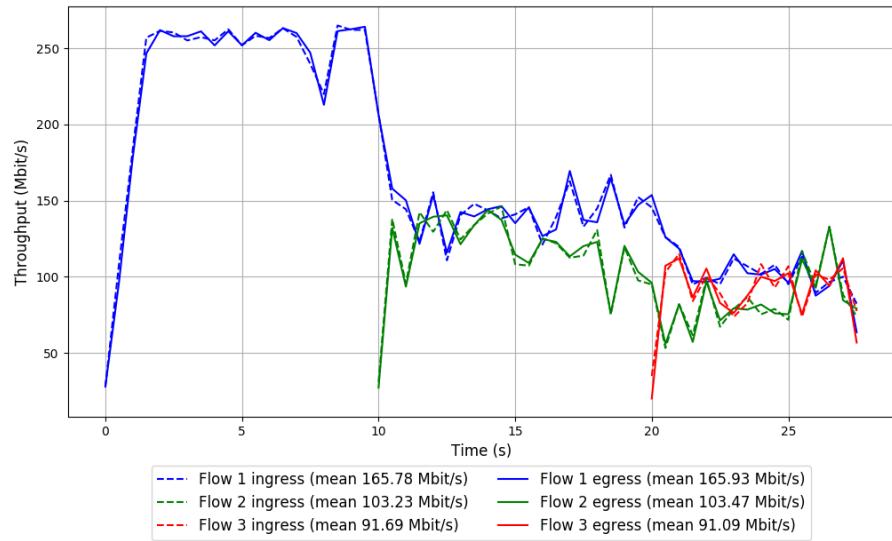
Run 2: Statistics of TaoVA-100x

Start at: 2017-09-08 04:28:14

End at: 2017-09-08 04:28:44

```
# Below is generated by plot.py at 2017-09-08 10:02:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 257.64 Mbit/s
95th percentile per-packet one-way delay: 54.547 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 165.93 Mbit/s
95th percentile per-packet one-way delay: 54.029 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 103.47 Mbit/s
95th percentile per-packet one-way delay: 55.040 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 91.09 Mbit/s
95th percentile per-packet one-way delay: 56.873 ms
Loss rate: 1.87%
```

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



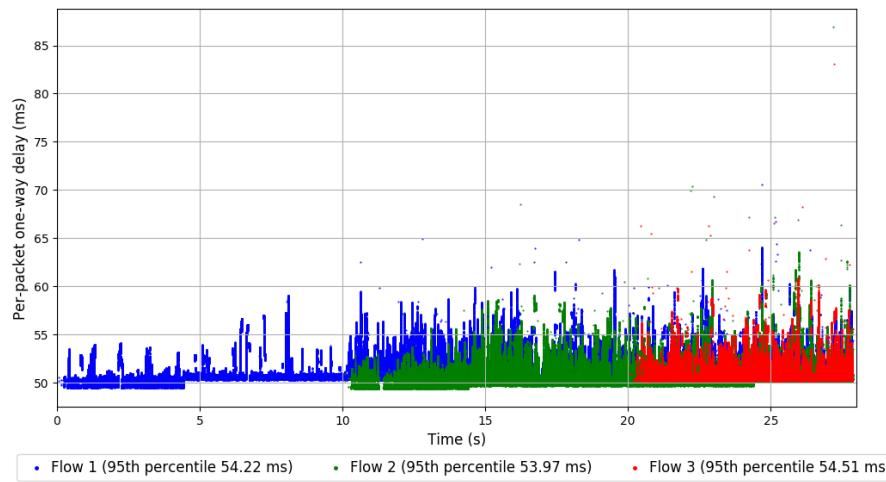
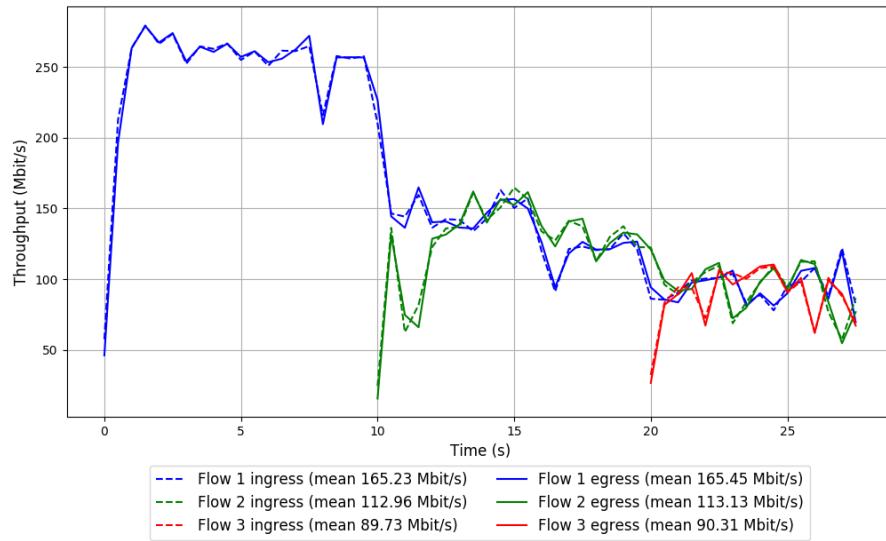
Run 3: Statistics of TaoVA-100x

Start at: 2017-09-08 04:40:35

End at: 2017-09-08 04:41:05

```
# Below is generated by plot.py at 2017-09-08 10:03:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 262.95 Mbit/s
95th percentile per-packet one-way delay: 54.176 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 165.45 Mbit/s
95th percentile per-packet one-way delay: 54.220 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 113.13 Mbit/s
95th percentile per-packet one-way delay: 53.967 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 90.31 Mbit/s
95th percentile per-packet one-way delay: 54.509 ms
Loss rate: 0.63%
```

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



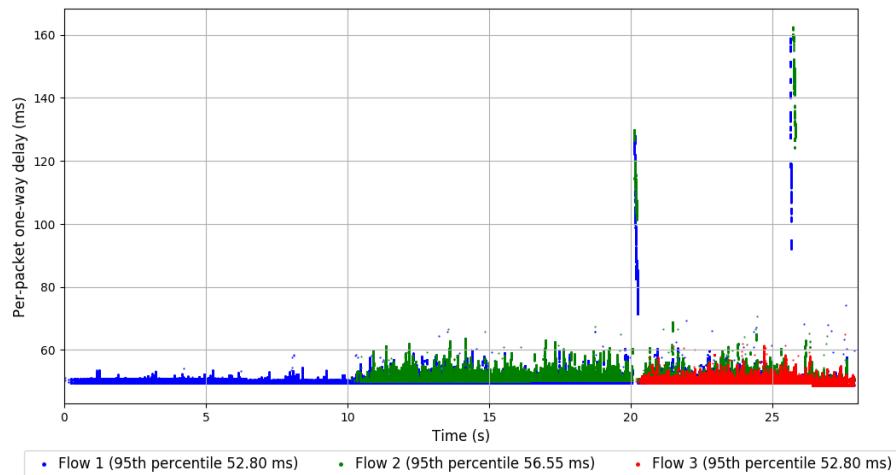
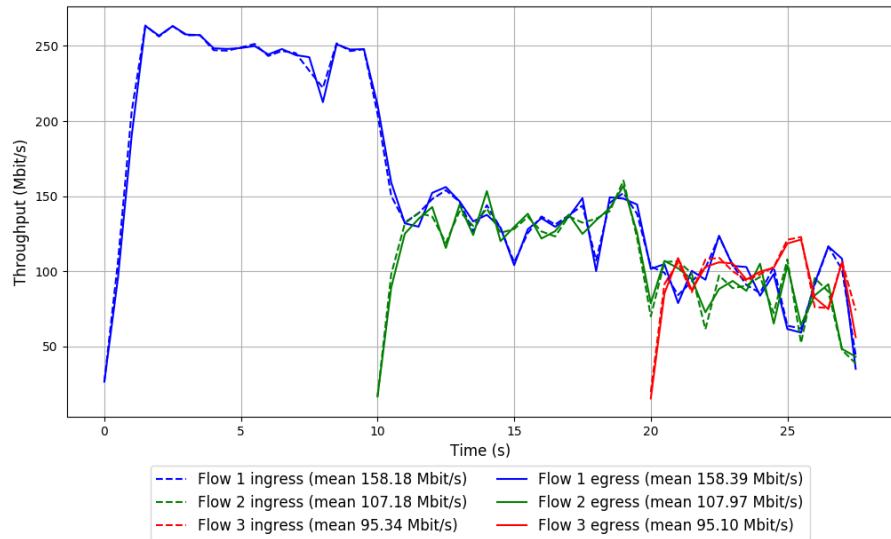
Run 4: Statistics of TaoVA-100x

Start at: 2017-09-08 04:52:43

End at: 2017-09-08 04:53:13

```
# Below is generated by plot.py at 2017-09-08 10:03:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 253.53 Mbit/s
95th percentile per-packet one-way delay: 54.204 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 158.39 Mbit/s
95th percentile per-packet one-way delay: 52.800 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 107.97 Mbit/s
95th percentile per-packet one-way delay: 56.545 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 95.10 Mbit/s
95th percentile per-packet one-way delay: 52.801 ms
Loss rate: 1.60%
```

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



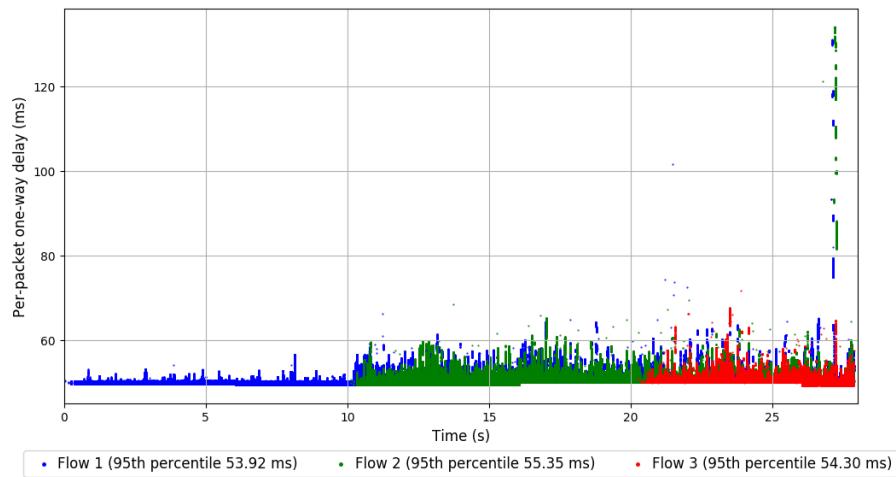
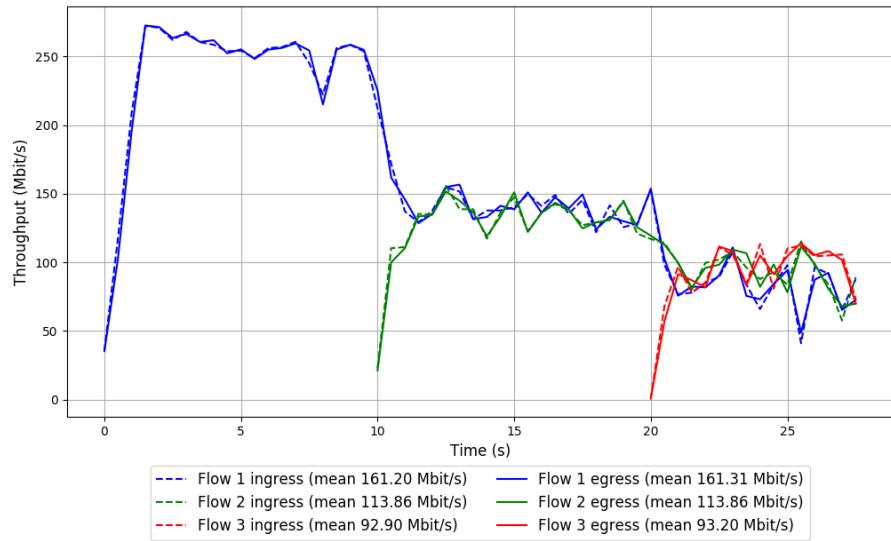
Run 5: Statistics of TaoVA-100x

Start at: 2017-09-08 05:05:03

End at: 2017-09-08 05:05:33

```
# Below is generated by plot.py at 2017-09-08 10:04:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 259.46 Mbit/s
95th percentile per-packet one-way delay: 54.445 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 161.31 Mbit/s
95th percentile per-packet one-way delay: 53.924 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 113.86 Mbit/s
95th percentile per-packet one-way delay: 55.352 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 93.20 Mbit/s
95th percentile per-packet one-way delay: 54.303 ms
Loss rate: 0.93%
```

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



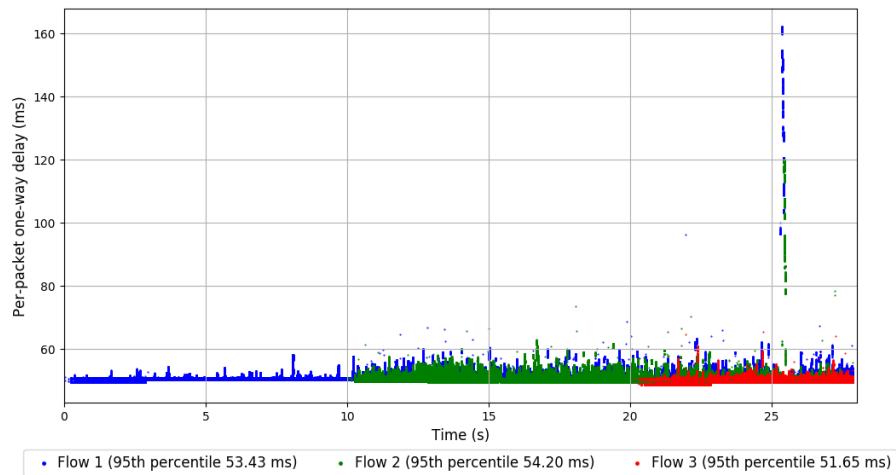
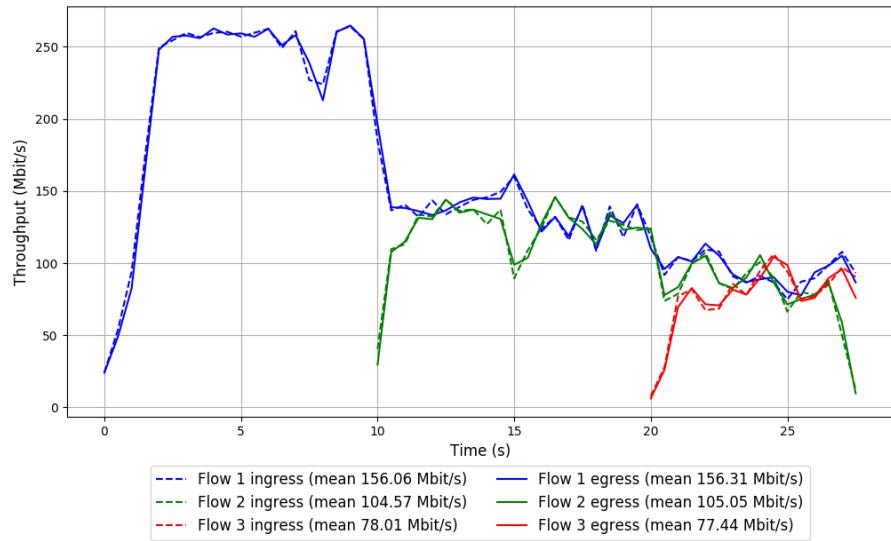
Run 6: Statistics of TaoVA-100x

Start at: 2017-09-08 05:17:27

End at: 2017-09-08 05:17:57

```
# Below is generated by plot.py at 2017-09-08 10:05:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 244.93 Mbit/s
95th percentile per-packet one-way delay: 53.616 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 156.31 Mbit/s
95th percentile per-packet one-way delay: 53.429 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 105.05 Mbit/s
95th percentile per-packet one-way delay: 54.203 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 77.44 Mbit/s
95th percentile per-packet one-way delay: 51.649 ms
Loss rate: 2.02%
```

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



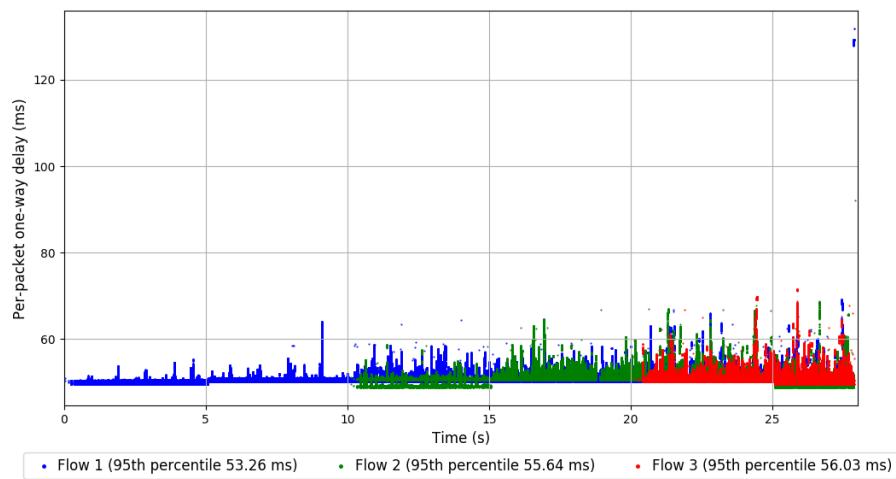
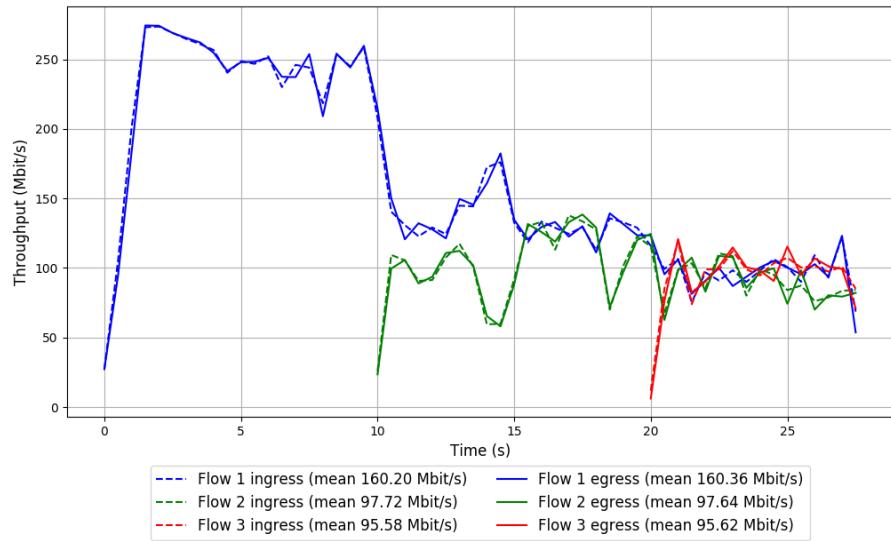
Run 7: Statistics of TaoVA-100x

Start at: 2017-09-08 05:29:34

End at: 2017-09-08 05:30:04

```
# Below is generated by plot.py at 2017-09-08 10:06:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 248.85 Mbit/s
95th percentile per-packet one-way delay: 54.212 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 160.36 Mbit/s
95th percentile per-packet one-way delay: 53.257 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 97.64 Mbit/s
95th percentile per-packet one-way delay: 55.640 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 95.62 Mbit/s
95th percentile per-packet one-way delay: 56.032 ms
Loss rate: 1.31%
```

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



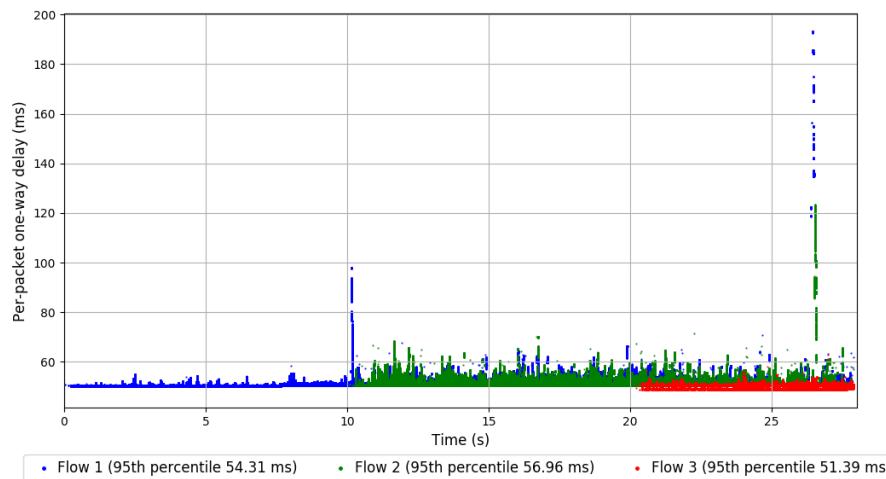
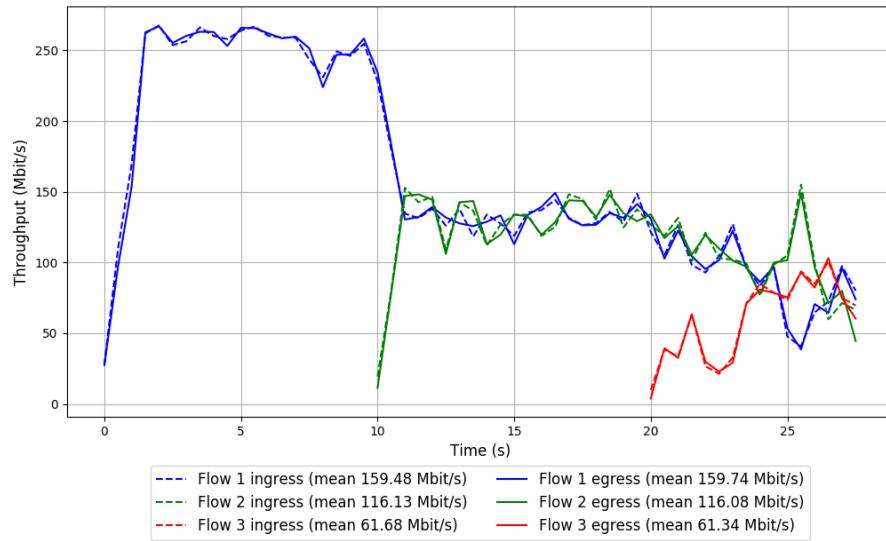
Run 8: Statistics of TaoVA-100x

Start at: 2017-09-08 05:41:42

End at: 2017-09-08 05:42:12

```
# Below is generated by plot.py at 2017-09-08 10:06:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 250.84 Mbit/s
95th percentile per-packet one-way delay: 55.150 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 159.74 Mbit/s
95th percentile per-packet one-way delay: 54.312 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 116.08 Mbit/s
95th percentile per-packet one-way delay: 56.956 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 61.34 Mbit/s
95th percentile per-packet one-way delay: 51.394 ms
Loss rate: 1.90%
```

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



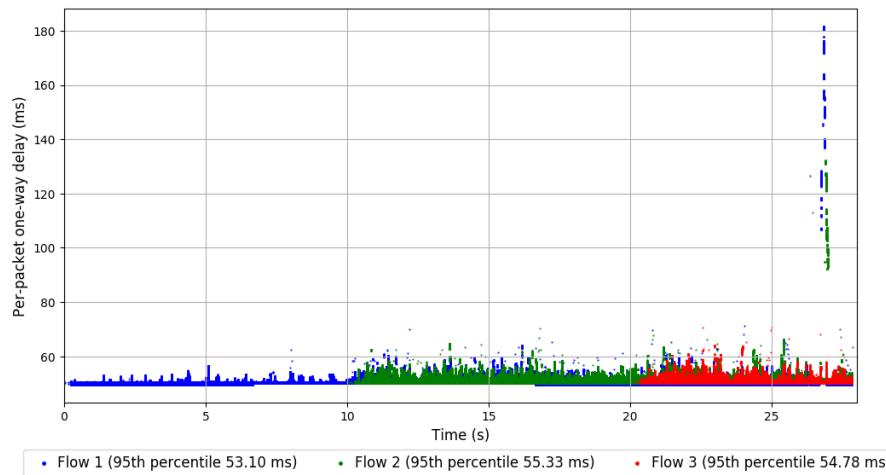
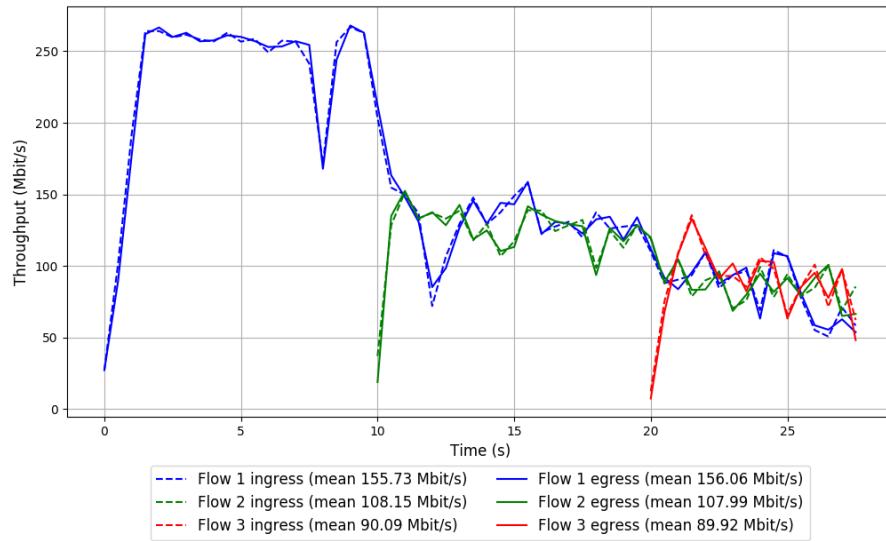
Run 9: Statistics of TaoVA-100x

Start at: 2017-09-08 05:53:53

End at: 2017-09-08 05:54:23

```
# Below is generated by plot.py at 2017-09-08 10:07:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 249.89 Mbit/s
95th percentile per-packet one-way delay: 54.066 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 156.06 Mbit/s
95th percentile per-packet one-way delay: 53.102 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 107.99 Mbit/s
95th percentile per-packet one-way delay: 55.327 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 89.92 Mbit/s
95th percentile per-packet one-way delay: 54.780 ms
Loss rate: 1.50%
```

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



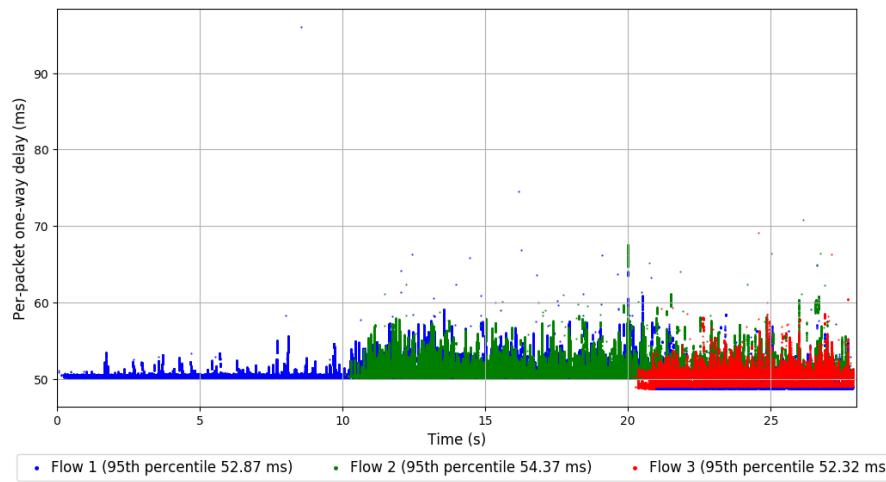
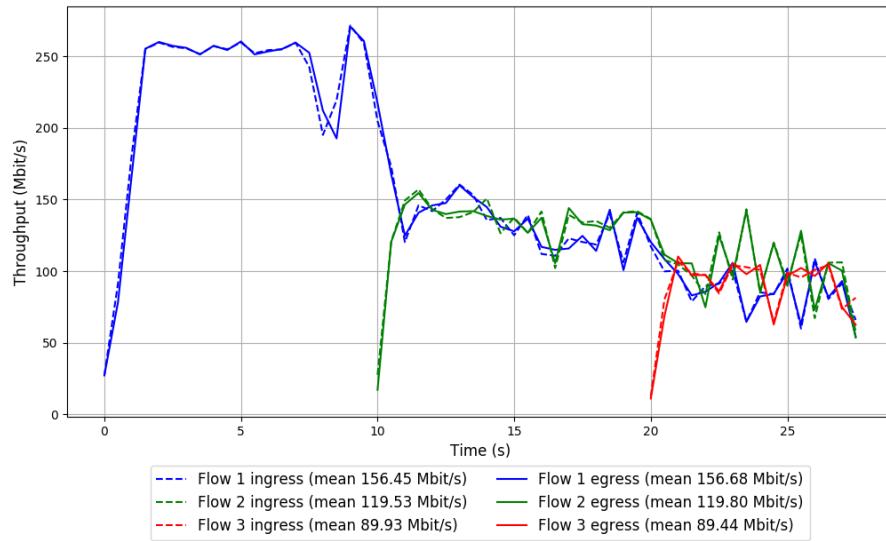
Run 10: Statistics of TaoVA-100x

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

End at: 2017-09-08 06:06:39

```
# Below is generated by plot.py at 2017-09-08 10:08:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 258.02 Mbit/s
95th percentile per-packet one-way delay: 53.423 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 156.68 Mbit/s
95th percentile per-packet one-way delay: 52.865 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 119.80 Mbit/s
95th percentile per-packet one-way delay: 54.374 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 89.44 Mbit/s
95th percentile per-packet one-way delay: 52.318 ms
Loss rate: 1.90%
```

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

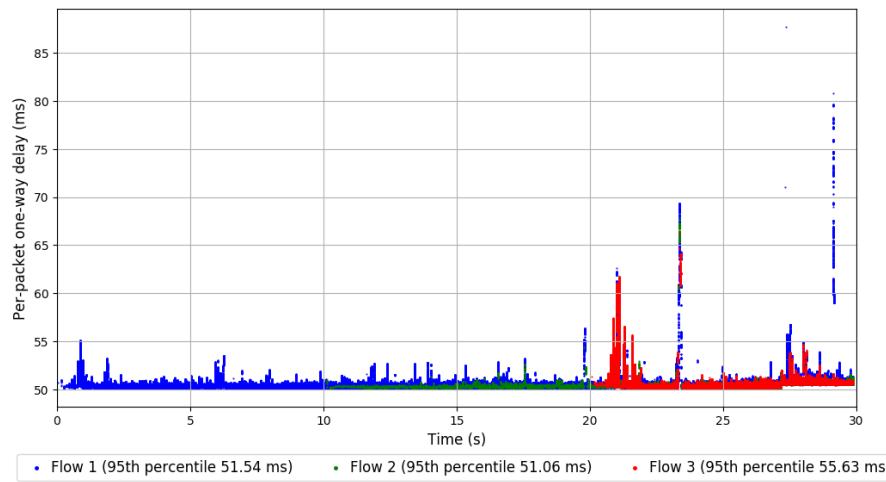
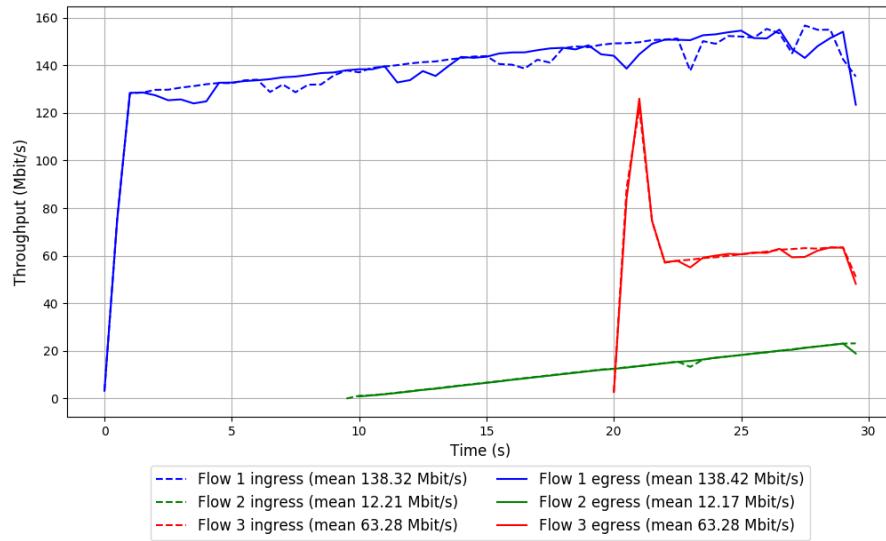


```
Run 1: Statistics of TCP Vegas

Start at: 2017-09-08 04:22:44
End at: 2017-09-08 04:23:14

# Below is generated by plot.py at 2017-09-08 10:08:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 167.29 Mbit/s
95th percentile per-packet one-way delay: 51.948 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 138.42 Mbit/s
95th percentile per-packet one-way delay: 51.544 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 12.17 Mbit/s
95th percentile per-packet one-way delay: 51.056 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 63.28 Mbit/s
95th percentile per-packet one-way delay: 55.632 ms
Loss rate: 1.02%
```

Run 1: Report of TCP Vegas — Data Link



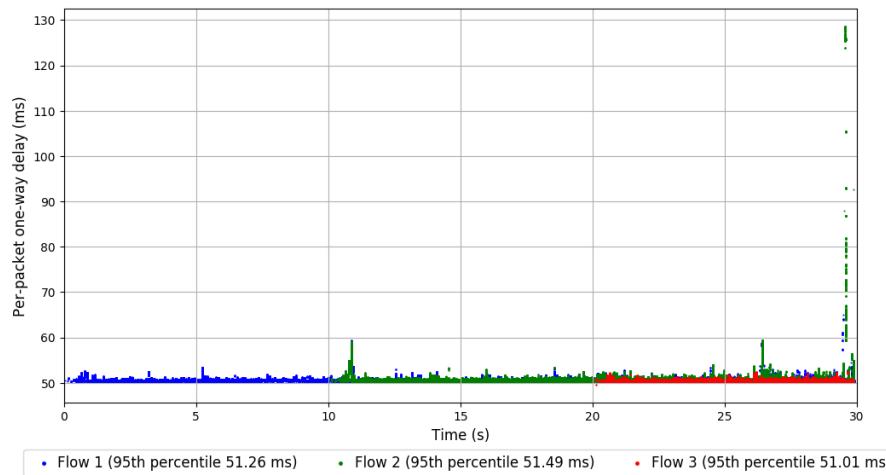
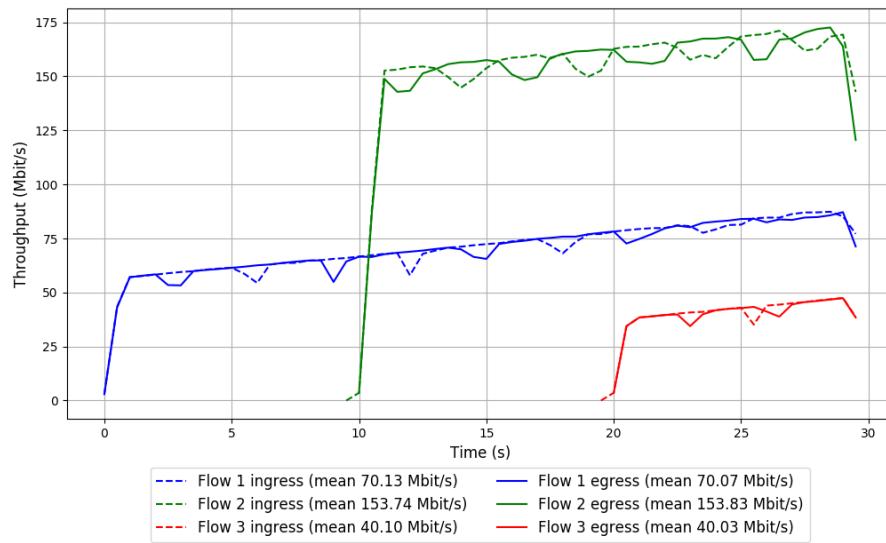
Run 2: Statistics of TCP Vegas

Start at: 2017-09-08 04:35:06

End at: 2017-09-08 04:35:36

```
# Below is generated by plot.py at 2017-09-08 10:08:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 185.57 Mbit/s
95th percentile per-packet one-way delay: 51.343 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 70.07 Mbit/s
95th percentile per-packet one-way delay: 51.262 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 153.83 Mbit/s
95th percentile per-packet one-way delay: 51.491 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 40.03 Mbit/s
95th percentile per-packet one-way delay: 51.006 ms
Loss rate: 1.20%
```

Run 2: Report of TCP Vegas — Data Link



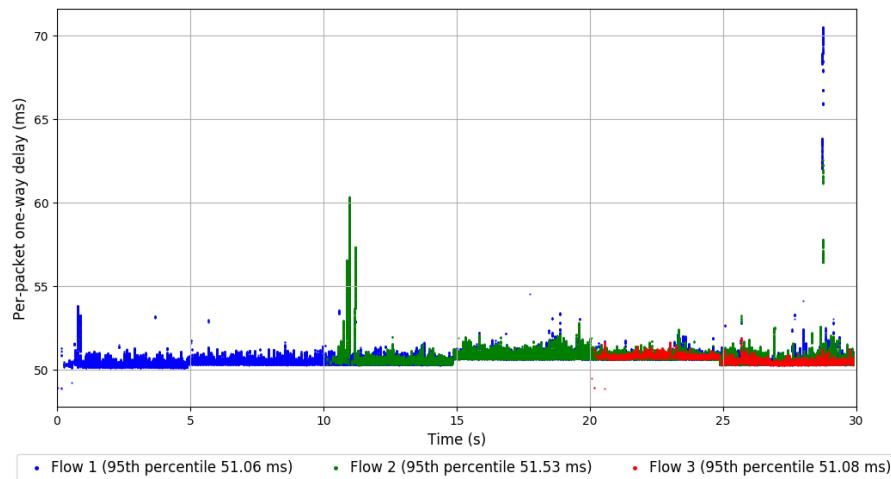
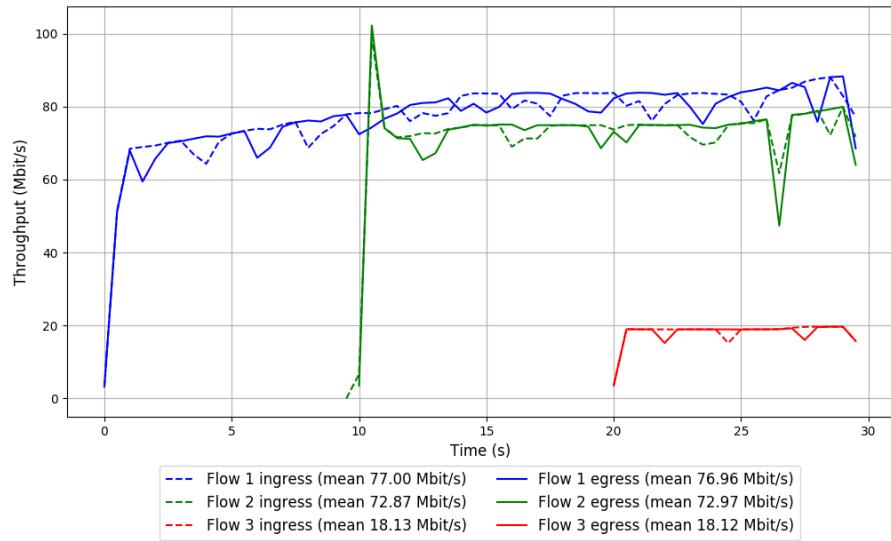
Run 3: Statistics of TCP Vegas

Start at: 2017-09-08 04:47:17

End at: 2017-09-08 04:47:47

```
# Below is generated by plot.py at 2017-09-08 10:08:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 131.35 Mbit/s
95th percentile per-packet one-way delay: 51.246 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 76.96 Mbit/s
95th percentile per-packet one-way delay: 51.057 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 72.97 Mbit/s
95th percentile per-packet one-way delay: 51.534 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 18.12 Mbit/s
95th percentile per-packet one-way delay: 51.083 ms
Loss rate: 1.09%
```

Run 3: Report of TCP Vegas — Data Link



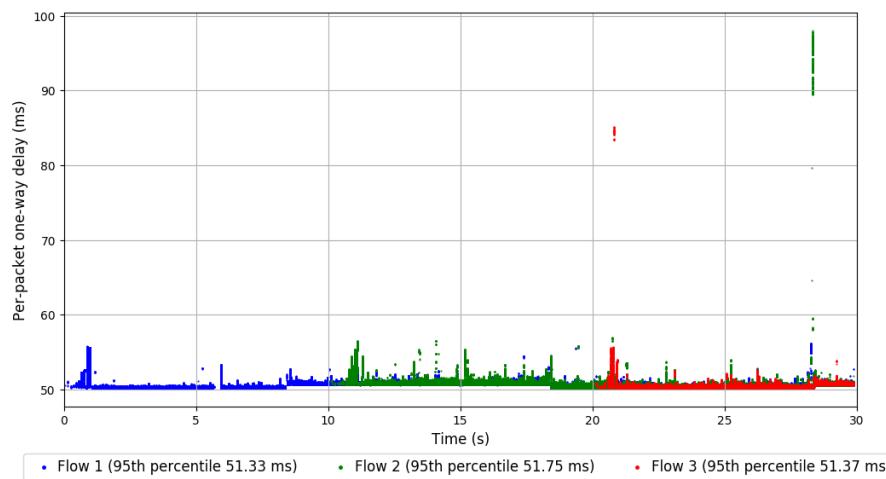
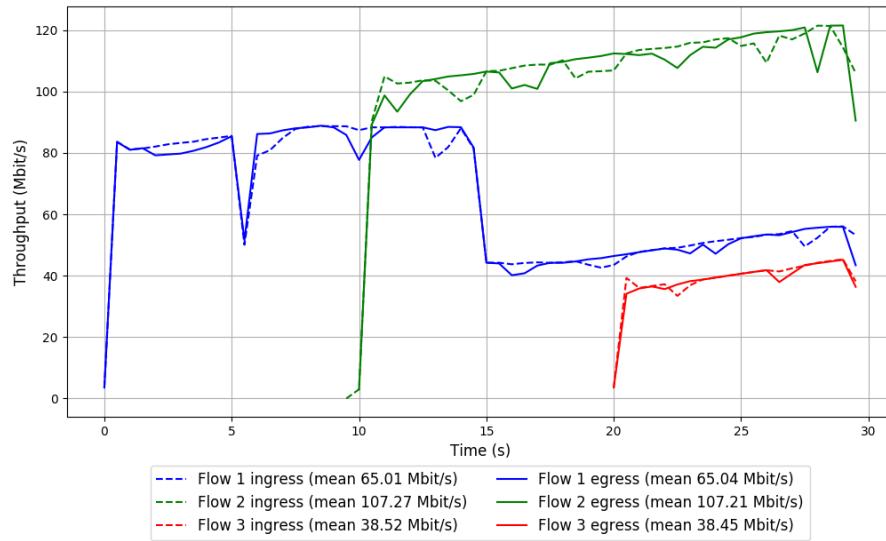
Run 4: Statistics of TCP Vegas

Start at: 2017-09-08 04:59:33

End at: 2017-09-08 05:00:03

```
# Below is generated by plot.py at 2017-09-08 10:09:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 148.99 Mbit/s
95th percentile per-packet one-way delay: 51.509 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 65.04 Mbit/s
95th percentile per-packet one-way delay: 51.328 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 107.21 Mbit/s
95th percentile per-packet one-way delay: 51.751 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 38.45 Mbit/s
95th percentile per-packet one-way delay: 51.369 ms
Loss rate: 1.22%
```

Run 4: Report of TCP Vegas — Data Link



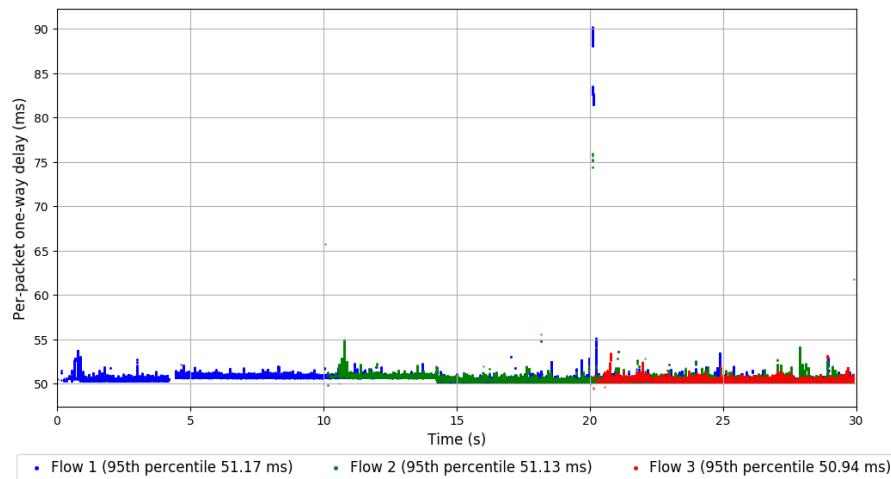
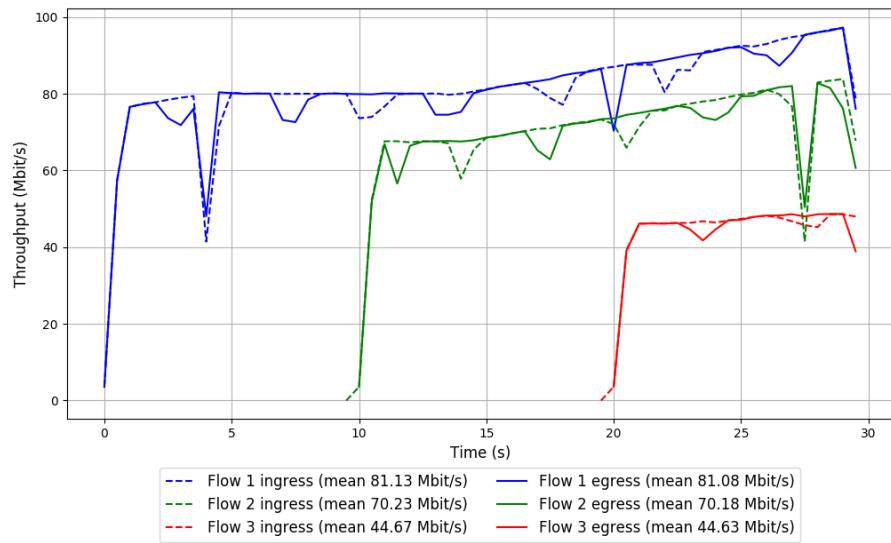
Run 5: Statistics of TCP Vegas

Start at: 2017-09-08 05:11:57

End at: 2017-09-08 05:12:27

```
# Below is generated by plot.py at 2017-09-08 10:09:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 142.39 Mbit/s
95th percentile per-packet one-way delay: 51.135 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 81.08 Mbit/s
95th percentile per-packet one-way delay: 51.166 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 70.18 Mbit/s
95th percentile per-packet one-way delay: 51.128 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 44.63 Mbit/s
95th percentile per-packet one-way delay: 50.937 ms
Loss rate: 1.10%
```

Run 5: Report of TCP Vegas — Data Link



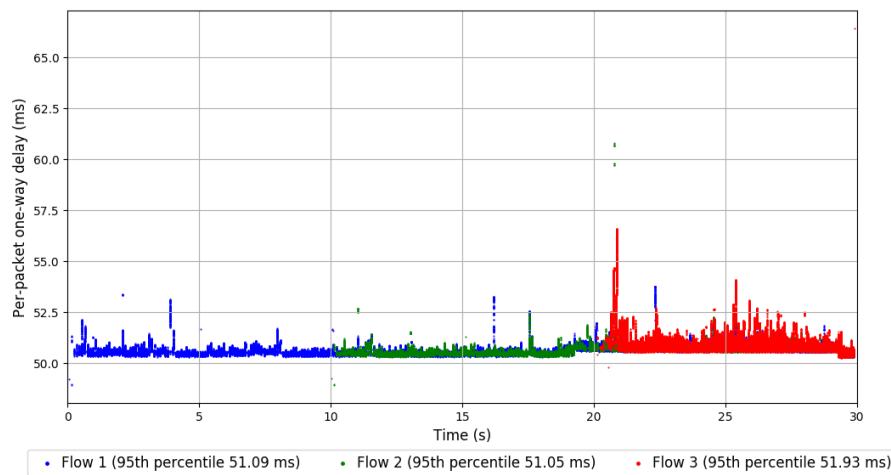
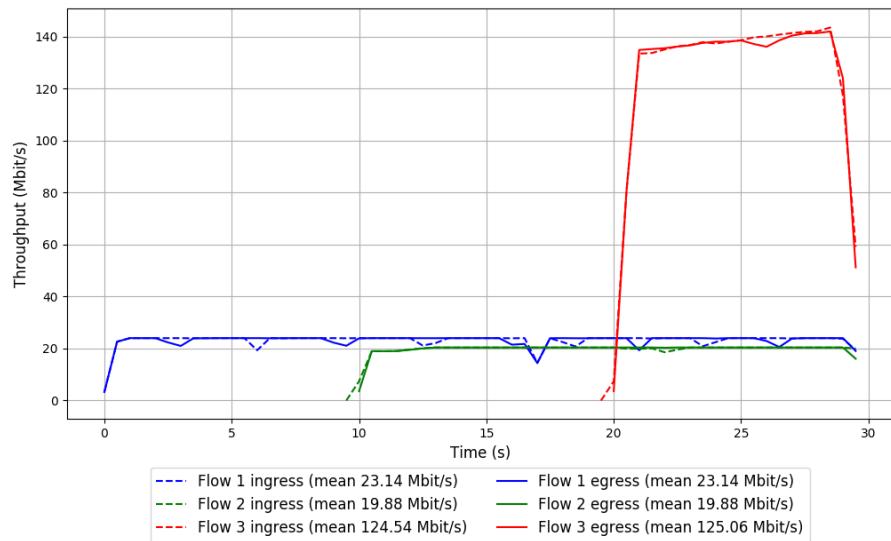
Run 6: Statistics of TCP Vegas

Start at: 2017-09-08 05:24:12

End at: 2017-09-08 05:24:42

```
# Below is generated by plot.py at 2017-09-08 10:09:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.63 Mbit/s
95th percentile per-packet one-way delay: 51.618 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 23.14 Mbit/s
95th percentile per-packet one-way delay: 51.087 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 19.88 Mbit/s
95th percentile per-packet one-way delay: 51.054 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 125.06 Mbit/s
95th percentile per-packet one-way delay: 51.930 ms
Loss rate: 0.58%
```

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



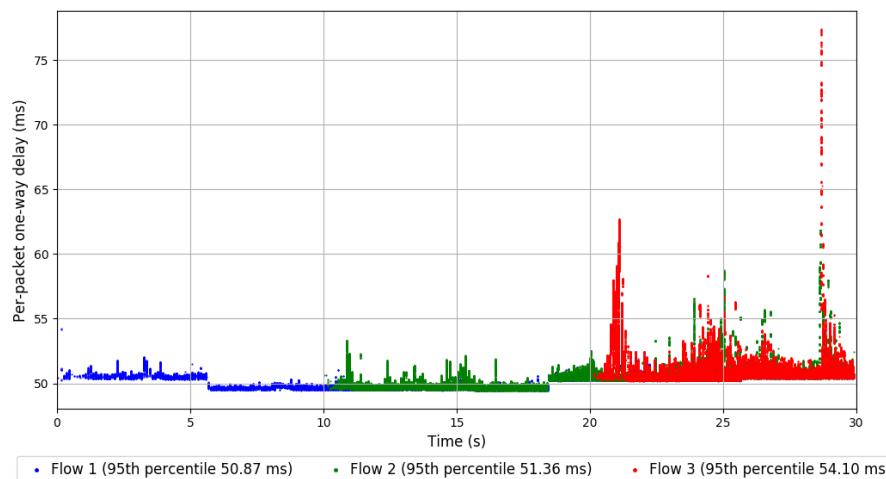
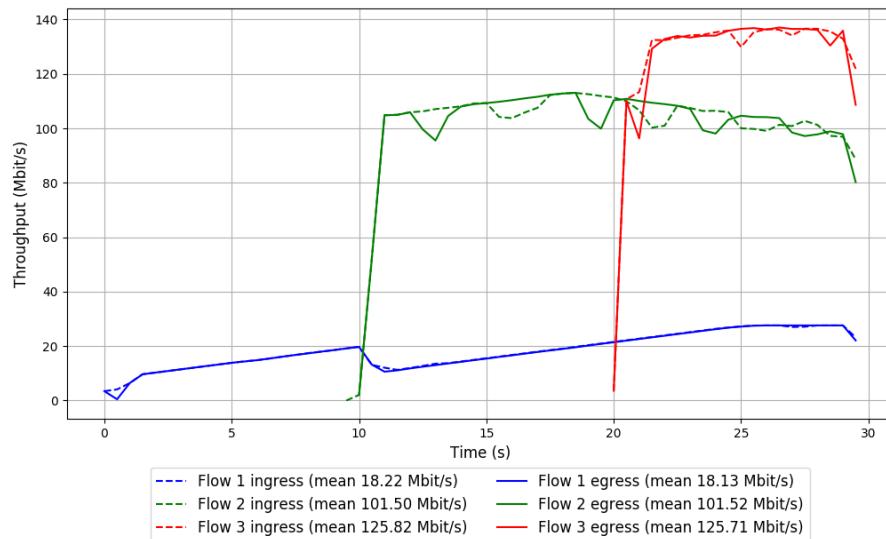
Run 7: Statistics of TCP Vegas

Start at: 2017-09-08 05:36:16

End at: 2017-09-08 05:36:46

```
# Below is generated by plot.py at 2017-09-08 10:09:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 127.07 Mbit/s
95th percentile per-packet one-way delay: 52.183 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 18.13 Mbit/s
95th percentile per-packet one-way delay: 50.869 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 101.52 Mbit/s
95th percentile per-packet one-way delay: 51.363 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 125.71 Mbit/s
95th percentile per-packet one-way delay: 54.105 ms
Loss rate: 1.09%
```

Run 7: Report of TCP Vegas — Data Link



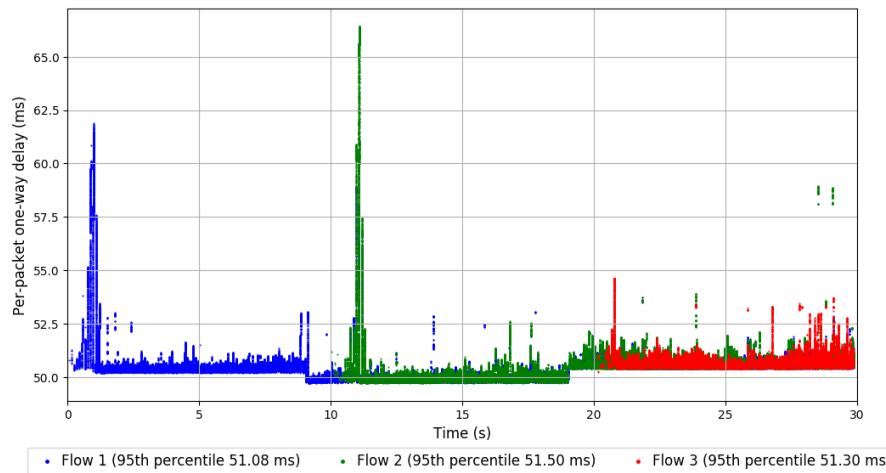
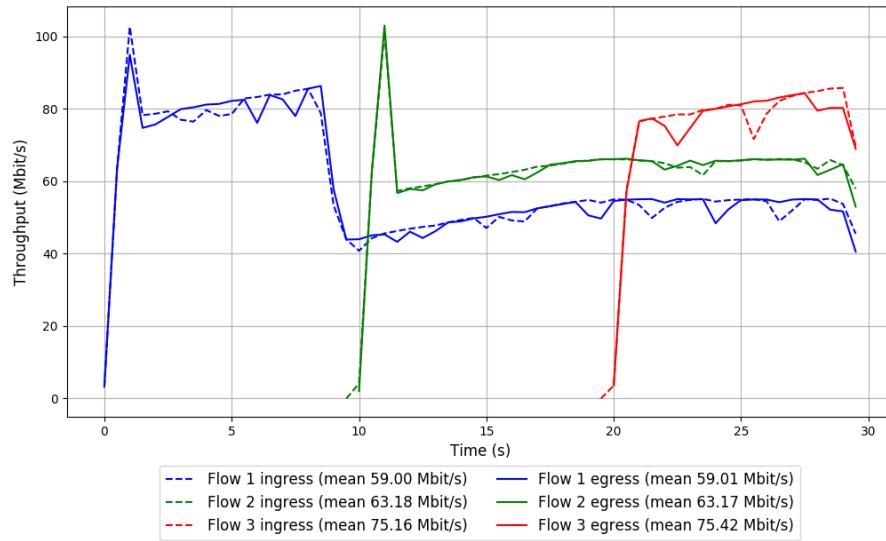
Run 8: Statistics of TCP Vegas

Start at: 2017-09-08 05:48:33

End at: 2017-09-08 05:49:03

```
# Below is generated by plot.py at 2017-09-08 10:09:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 125.83 Mbit/s
95th percentile per-packet one-way delay: 51.322 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 59.01 Mbit/s
95th percentile per-packet one-way delay: 51.078 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 63.17 Mbit/s
95th percentile per-packet one-way delay: 51.499 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 75.42 Mbit/s
95th percentile per-packet one-way delay: 51.299 ms
Loss rate: 1.16%
```

Run 8: Report of TCP Vegas — Data Link



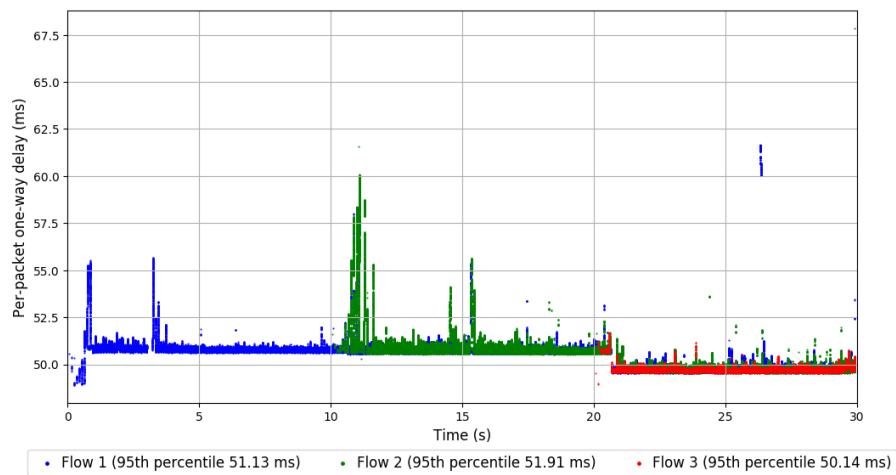
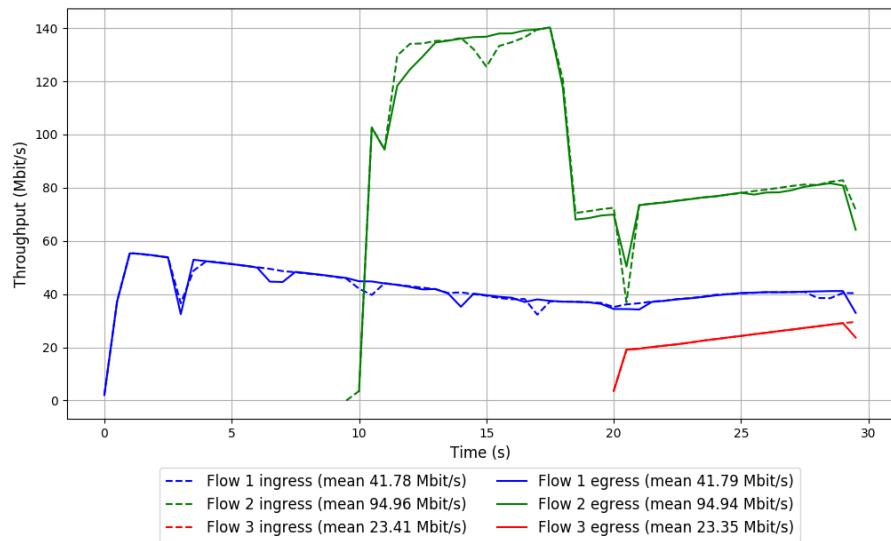
Run 9: Statistics of TCP Vegas

Start at: 2017-09-08 06:00:41

End at: 2017-09-08 06:01:11

```
# Below is generated by plot.py at 2017-09-08 10:10:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 112.60 Mbit/s
95th percentile per-packet one-way delay: 51.337 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 41.79 Mbit/s
95th percentile per-packet one-way delay: 51.129 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 94.94 Mbit/s
95th percentile per-packet one-way delay: 51.908 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 23.35 Mbit/s
95th percentile per-packet one-way delay: 50.140 ms
Loss rate: 1.28%
```

Run 9: Report of TCP Vegas — Data Link



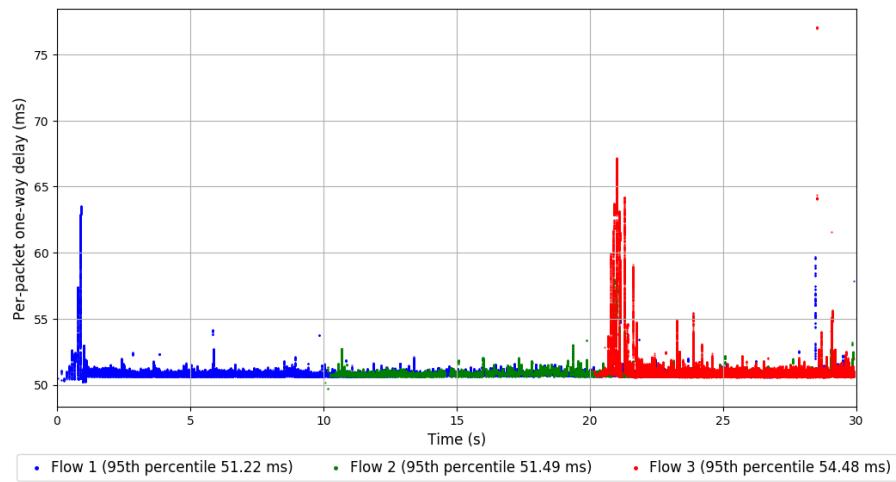
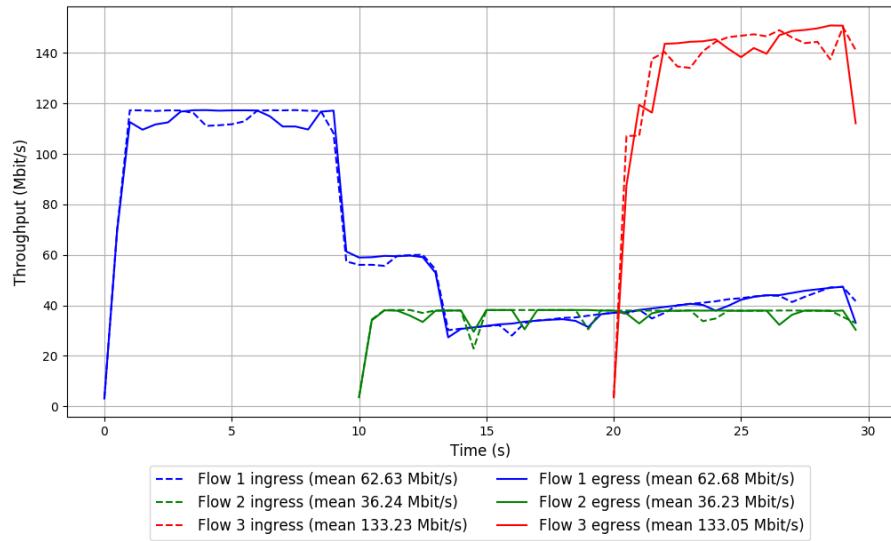
Run 10: Statistics of TCP Vegas

Start at: 2017-09-08 06:12:51

End at: 2017-09-08 06:13:21

```
# Below is generated by plot.py at 2017-09-08 10:10:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 130.61 Mbit/s
95th percentile per-packet one-way delay: 51.770 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 62.68 Mbit/s
95th percentile per-packet one-way delay: 51.218 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 36.23 Mbit/s
95th percentile per-packet one-way delay: 51.493 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 133.05 Mbit/s
95th percentile per-packet one-way delay: 54.483 ms
Loss rate: 1.14%
```

Run 10: Report of TCP Vegas — Data Link



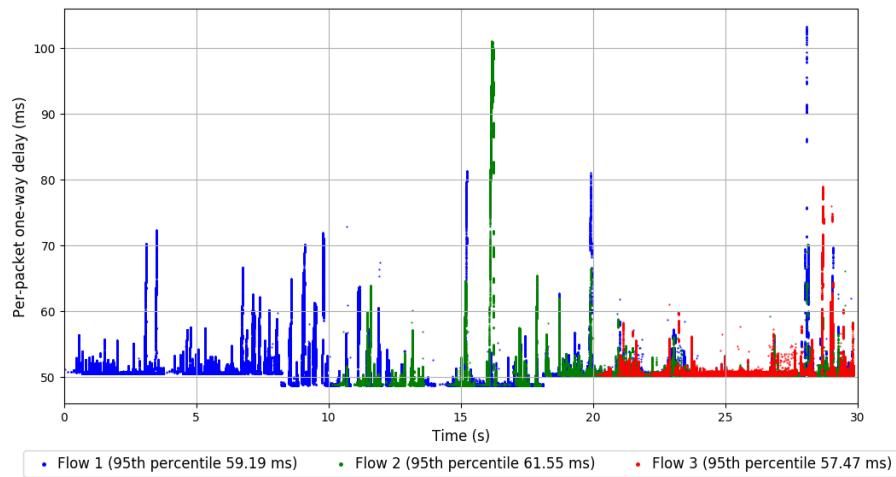
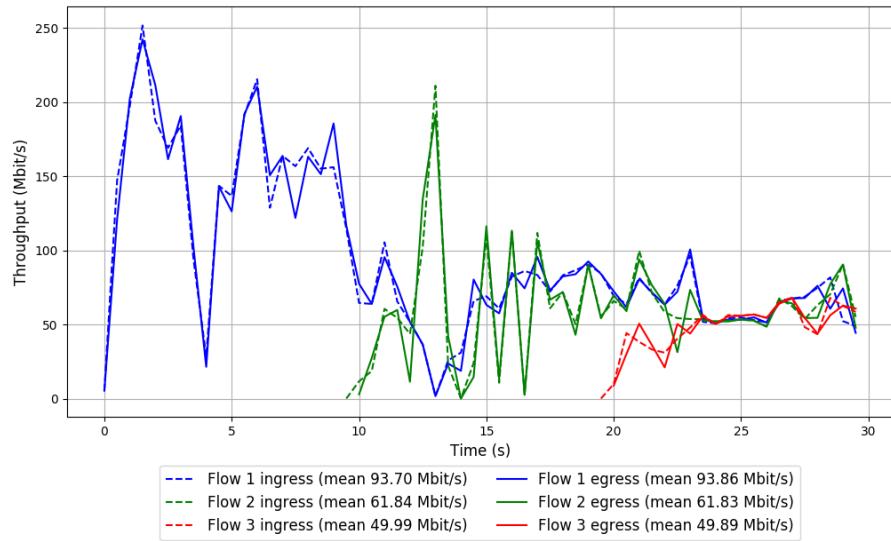
Run 1: Statistics of Verus

Start at: 2017-09-08 04:19:33

End at: 2017-09-08 04:20:03

```
# Below is generated by plot.py at 2017-09-08 10:10:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 151.39 Mbit/s
95th percentile per-packet one-way delay: 59.524 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 93.86 Mbit/s
95th percentile per-packet one-way delay: 59.188 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 61.83 Mbit/s
95th percentile per-packet one-way delay: 61.554 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 49.89 Mbit/s
95th percentile per-packet one-way delay: 57.468 ms
Loss rate: 0.94%
```

Run 1: Report of Verus — Data Link



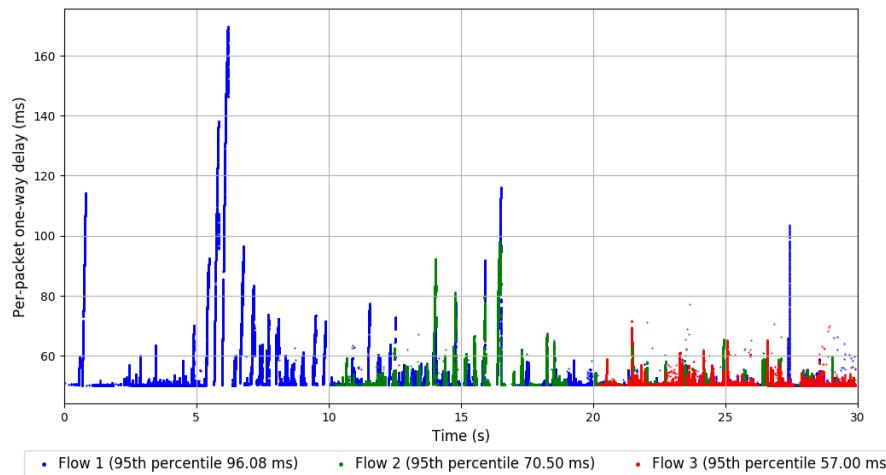
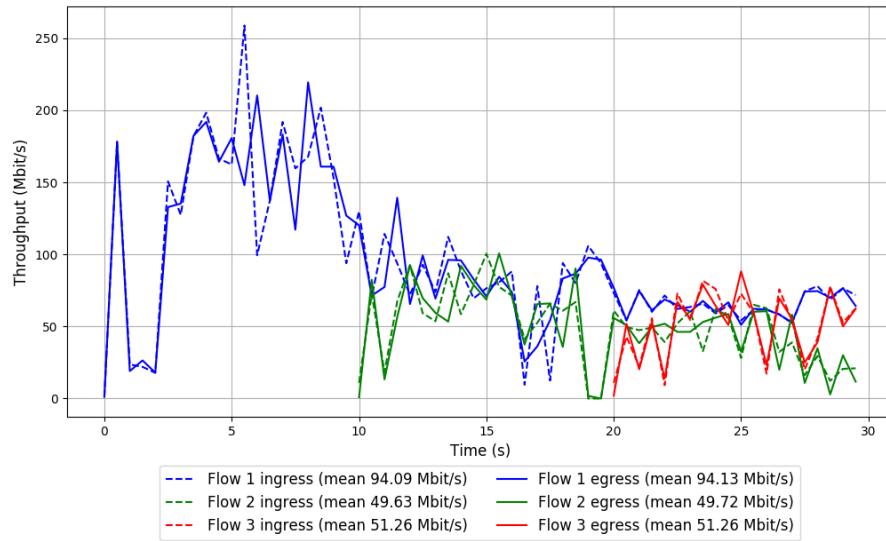
Run 2: Statistics of Verus

Start at: 2017-09-08 04:31:45

End at: 2017-09-08 04:32:15

```
# Below is generated by plot.py at 2017-09-08 10:10:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 143.87 Mbit/s
95th percentile per-packet one-way delay: 86.254 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 94.13 Mbit/s
95th percentile per-packet one-way delay: 96.079 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 49.72 Mbit/s
95th percentile per-packet one-way delay: 70.500 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 51.26 Mbit/s
95th percentile per-packet one-way delay: 56.997 ms
Loss rate: 0.73%
```

## Run 2: Report of Verus — Data Link



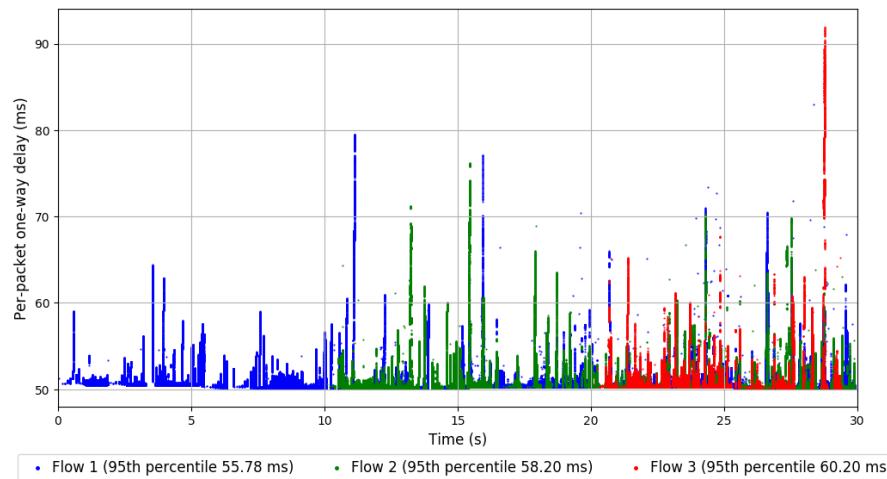
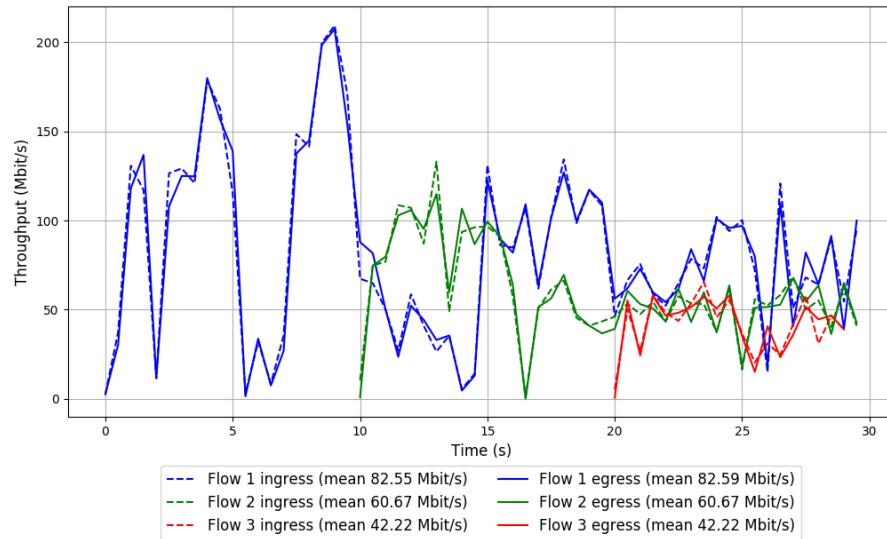
Run 3: Statistics of Verus

Start at: 2017-09-08 04:44:06

End at: 2017-09-08 04:44:36

```
# Below is generated by plot.py at 2017-09-08 10:11:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 135.91 Mbit/s
95th percentile per-packet one-way delay: 57.213 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 82.59 Mbit/s
95th percentile per-packet one-way delay: 55.779 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 60.67 Mbit/s
95th percentile per-packet one-way delay: 58.203 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 42.22 Mbit/s
95th percentile per-packet one-way delay: 60.197 ms
Loss rate: 0.00%
```

Run 3: Report of Verus — Data Link



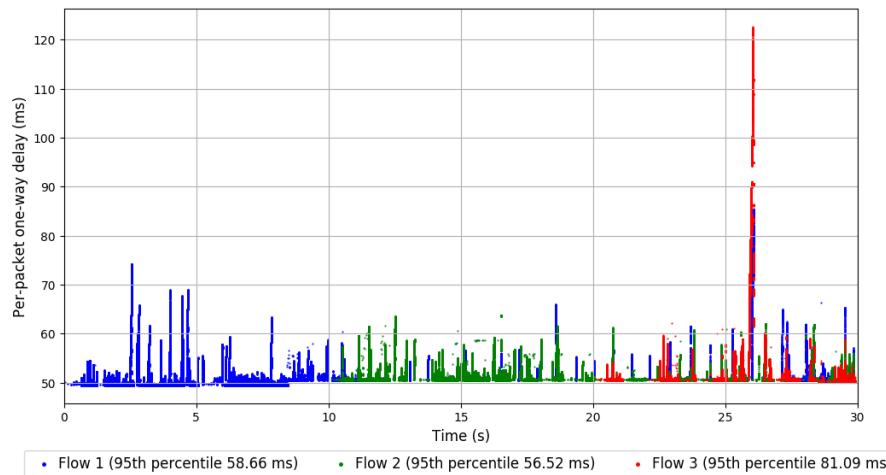
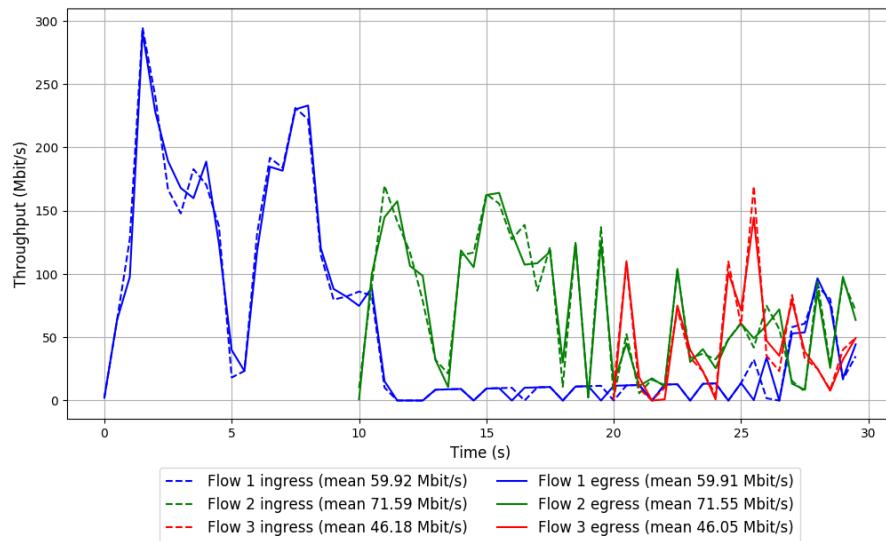
Run 4: Statistics of Verus

Start at: 2017-09-08 04:56:13

End at: 2017-09-08 04:56:43

```
# Below is generated by plot.py at 2017-09-08 10:11:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 122.37 Mbit/s
95th percentile per-packet one-way delay: 58.341 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 59.91 Mbit/s
95th percentile per-packet one-way delay: 58.657 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 71.55 Mbit/s
95th percentile per-packet one-way delay: 56.518 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 46.05 Mbit/s
95th percentile per-packet one-way delay: 81.095 ms
Loss rate: 0.96%
```

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



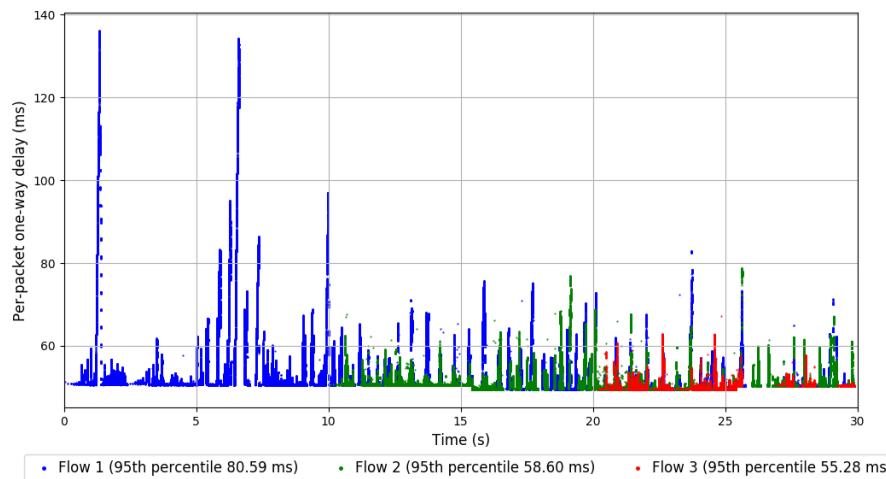
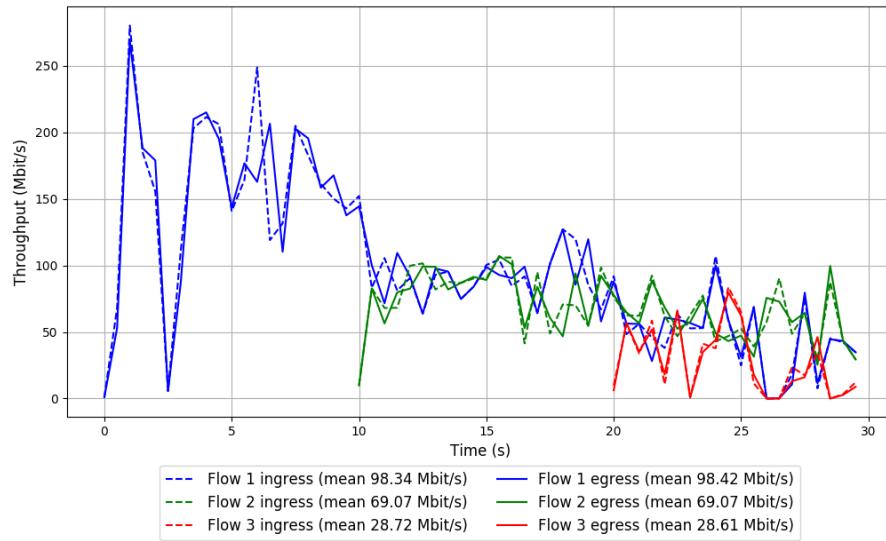
Run 5: Statistics of Verus

Start at: 2017-09-08 05:08:36

End at: 2017-09-08 05:09:06

```
# Below is generated by plot.py at 2017-09-08 10:11:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 153.57 Mbit/s
95th percentile per-packet one-way delay: 71.034 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 98.42 Mbit/s
95th percentile per-packet one-way delay: 80.593 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 69.07 Mbit/s
95th percentile per-packet one-way delay: 58.602 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 28.61 Mbit/s
95th percentile per-packet one-way delay: 55.281 ms
Loss rate: 0.70%
```

Run 5: Report of Verus — Data Link



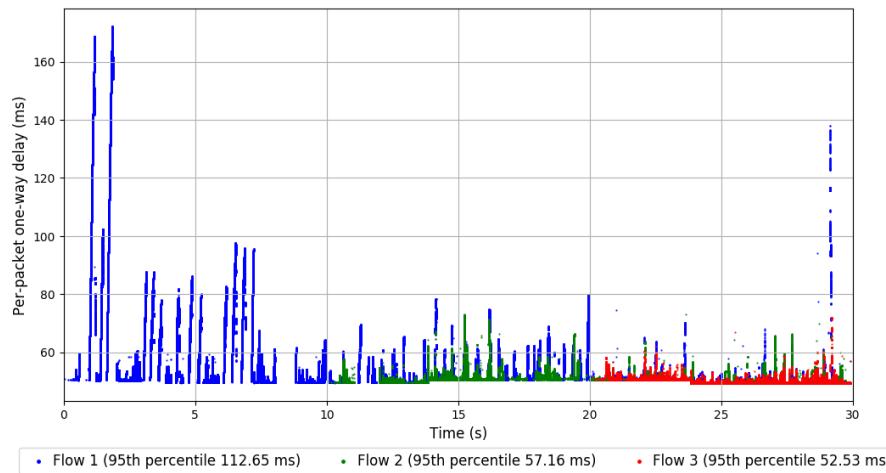
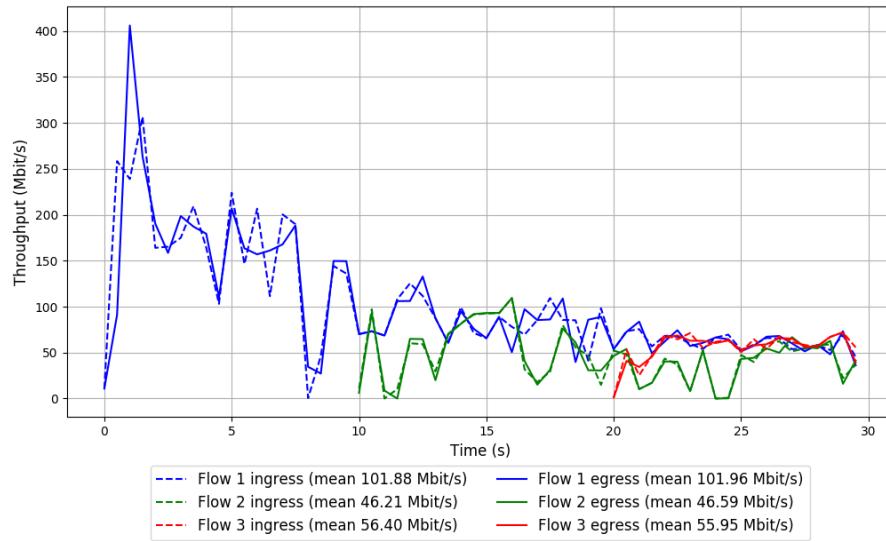
Run 6: Statistics of Verus

Start at: 2017-09-08 05:20:58

End at: 2017-09-08 05:21:28

```
# Below is generated by plot.py at 2017-09-08 10:11:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 151.17 Mbit/s
95th percentile per-packet one-way delay: 92.383 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 101.96 Mbit/s
95th percentile per-packet one-way delay: 112.647 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 46.59 Mbit/s
95th percentile per-packet one-way delay: 57.165 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 55.95 Mbit/s
95th percentile per-packet one-way delay: 52.529 ms
Loss rate: 1.84%
```

## Run 6: Report of Verus — Data Link



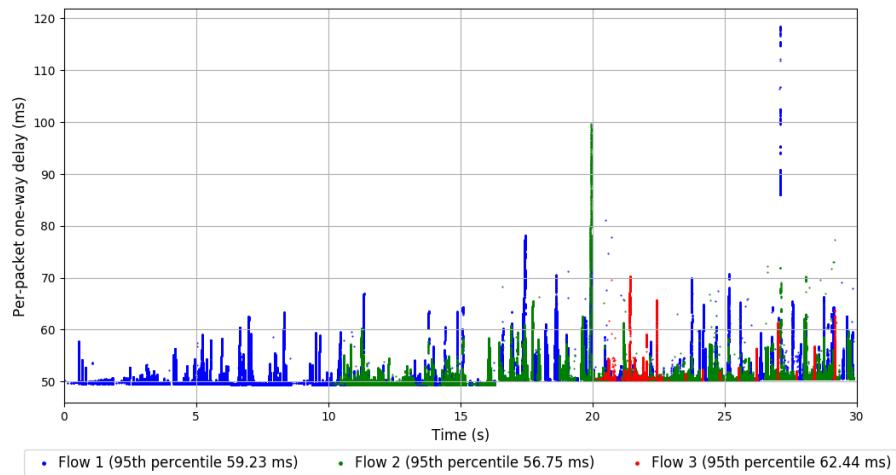
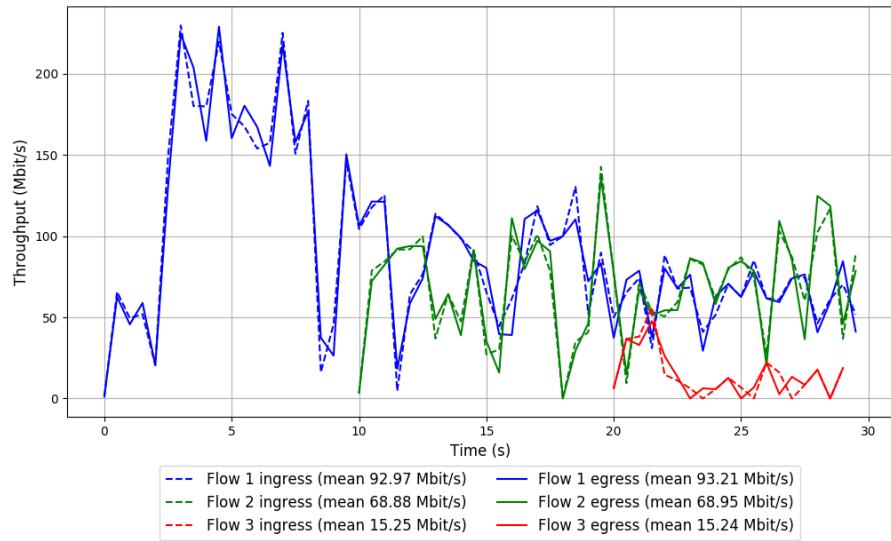
Run 7: Statistics of Verus

Start at: 2017-09-08 05:33:05

End at: 2017-09-08 05:33:35

```
# Below is generated by plot.py at 2017-09-08 10:12:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 143.55 Mbit/s
95th percentile per-packet one-way delay: 58.513 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 93.21 Mbit/s
95th percentile per-packet one-way delay: 59.229 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 68.95 Mbit/s
95th percentile per-packet one-way delay: 56.754 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 15.24 Mbit/s
95th percentile per-packet one-way delay: 62.438 ms
Loss rate: 0.00%
```

Run 7: Report of Verus — Data Link



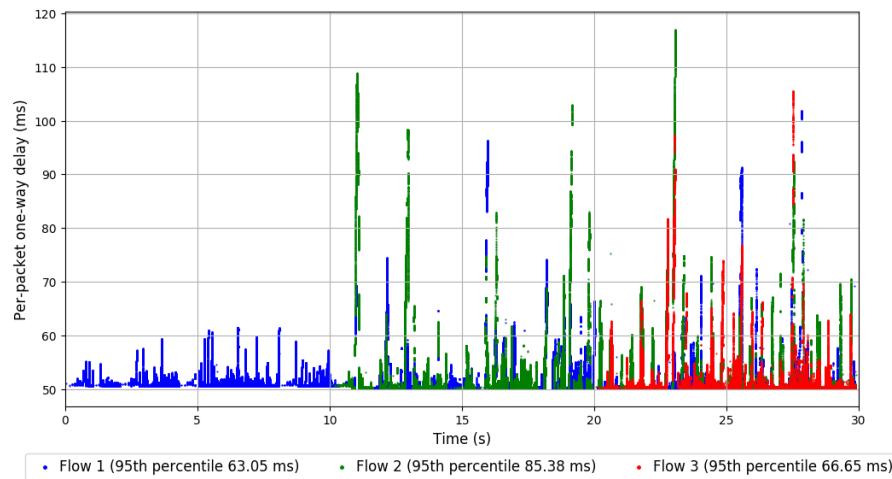
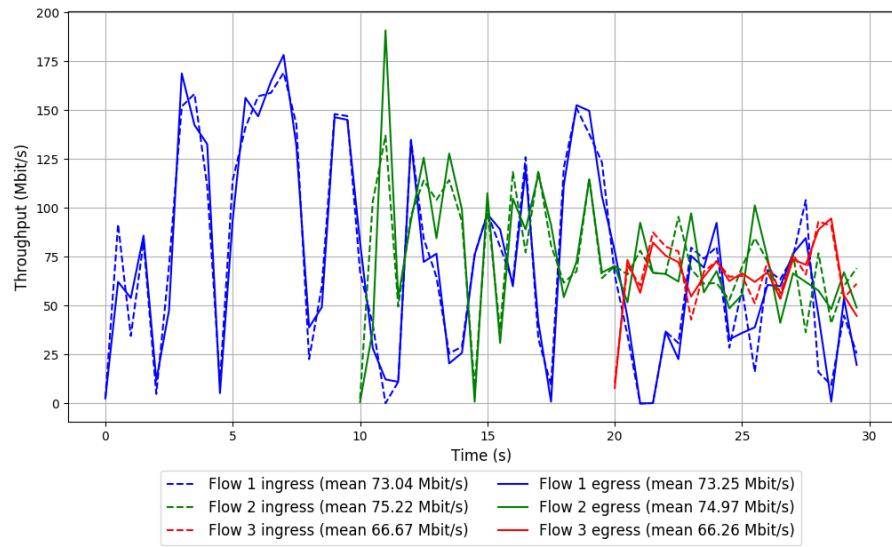
Run 8: Statistics of Verus

Start at: 2017-09-08 05:45:11

End at: 2017-09-08 05:45:41

```
# Below is generated by plot.py at 2017-09-08 10:12:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 144.66 Mbit/s
95th percentile per-packet one-way delay: 69.953 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 73.25 Mbit/s
95th percentile per-packet one-way delay: 63.046 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 74.97 Mbit/s
95th percentile per-packet one-way delay: 85.380 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 66.26 Mbit/s
95th percentile per-packet one-way delay: 66.650 ms
Loss rate: 1.61%
```

Run 8: Report of Verus — Data Link



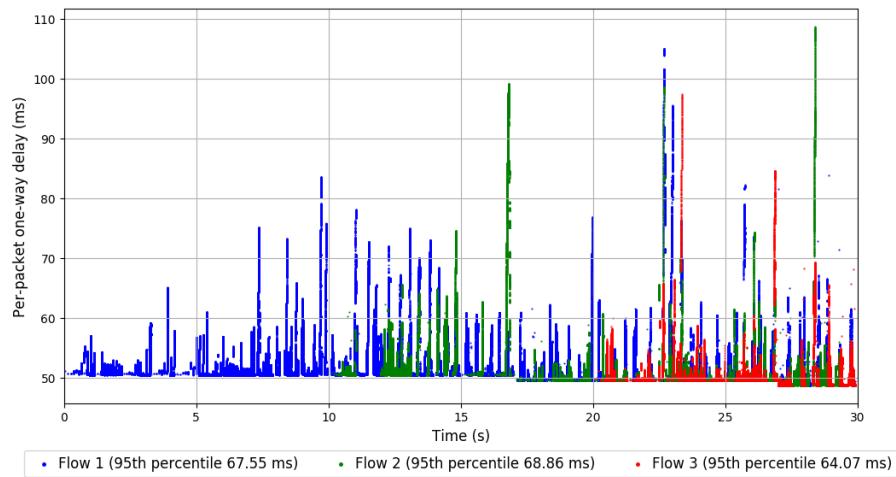
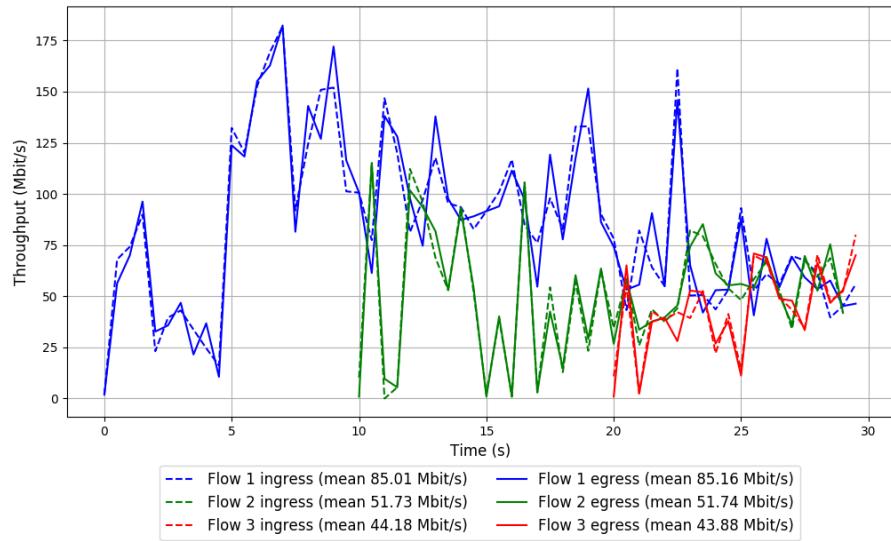
Run 9: Statistics of Verus

Start at: 2017-09-08 05:57:25

End at: 2017-09-08 05:57:55

```
# Below is generated by plot.py at 2017-09-08 10:12:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 132.92 Mbit/s
95th percentile per-packet one-way delay: 67.148 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 85.16 Mbit/s
95th percentile per-packet one-way delay: 67.546 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 51.74 Mbit/s
95th percentile per-packet one-way delay: 68.859 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 43.88 Mbit/s
95th percentile per-packet one-way delay: 64.071 ms
Loss rate: 1.72%
```

Run 9: Report of Verus — Data Link



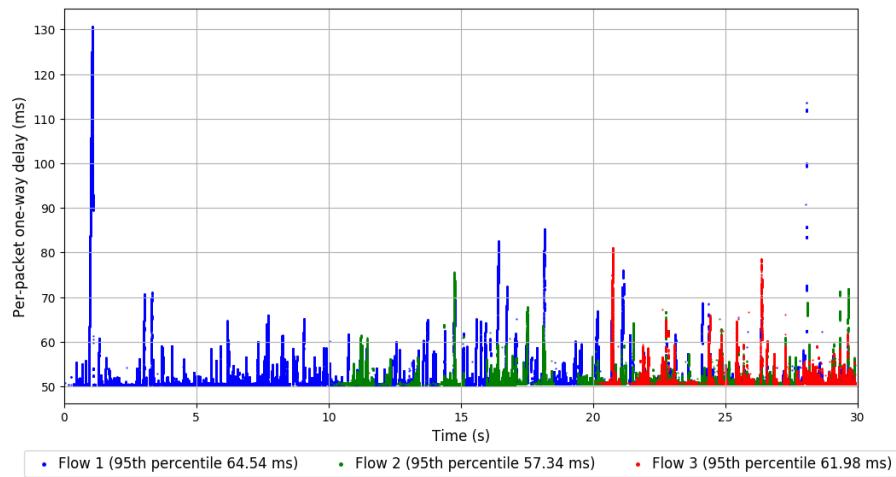
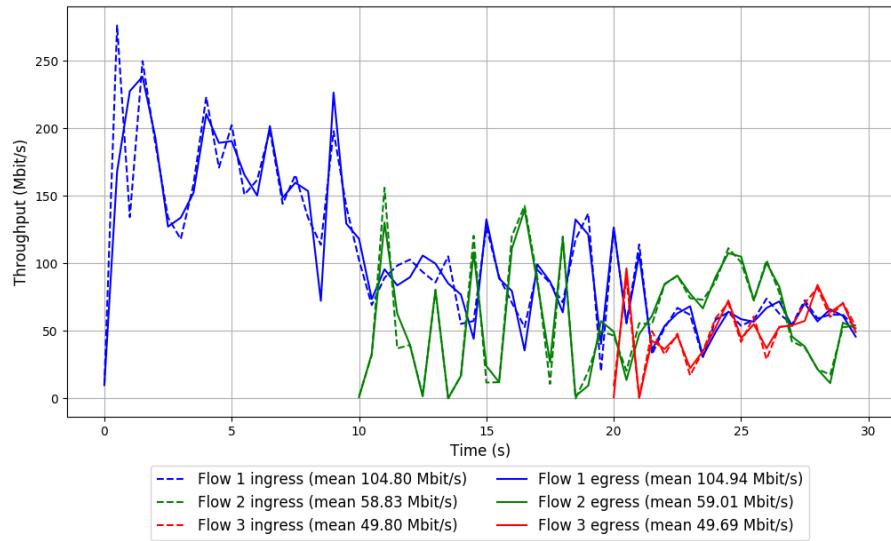
Run 10: Statistics of Verus

Start at: 2017-09-08 06:09:39

End at: 2017-09-08 06:10:09

```
# Below is generated by plot.py at 2017-09-08 10:12:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 160.42 Mbit/s
95th percentile per-packet one-way delay: 62.738 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 104.94 Mbit/s
95th percentile per-packet one-way delay: 64.537 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 59.01 Mbit/s
95th percentile per-packet one-way delay: 57.340 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 49.69 Mbit/s
95th percentile per-packet one-way delay: 61.982 ms
Loss rate: 1.24%
```

Run 10: Report of Verus — Data Link

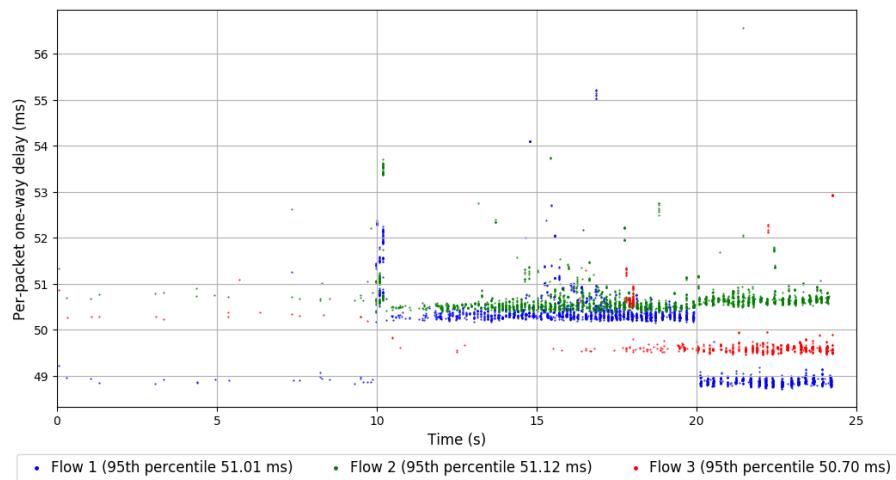
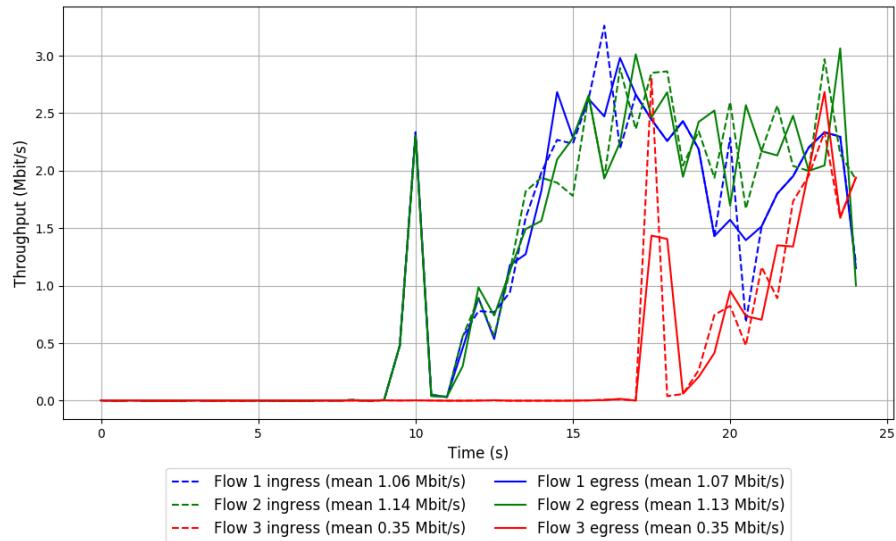


```
Run 1: Statistics of WebRTC media

Start at: 2017-09-08 04:17:06
End at: 2017-09-08 04:17:36

# Below is generated by plot.py at 2017-09-08 10:12:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.54 Mbit/s
95th percentile per-packet one-way delay: 51.060 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 1.07 Mbit/s
95th percentile per-packet one-way delay: 51.011 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 1.13 Mbit/s
95th percentile per-packet one-way delay: 51.122 ms
Loss rate: 1.67%
-- Flow 3:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 50.700 ms
Loss rate: 0.01%
```

Run 1: Report of WebRTC media — Data Link

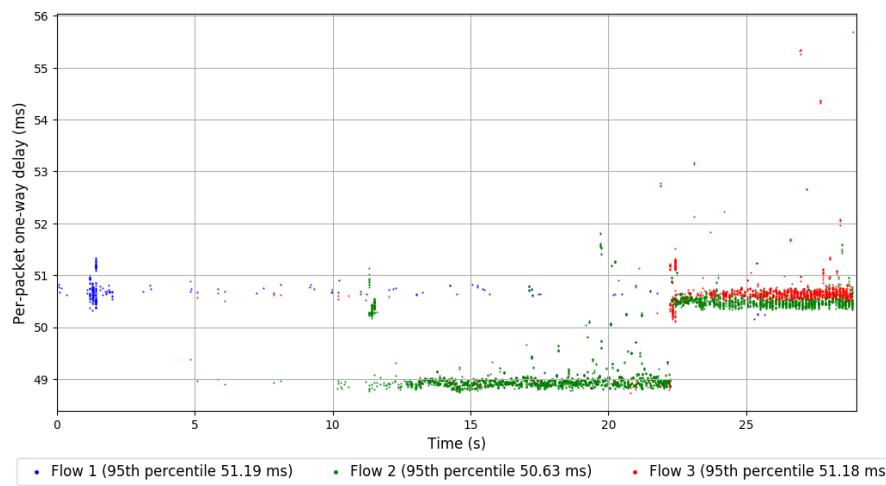
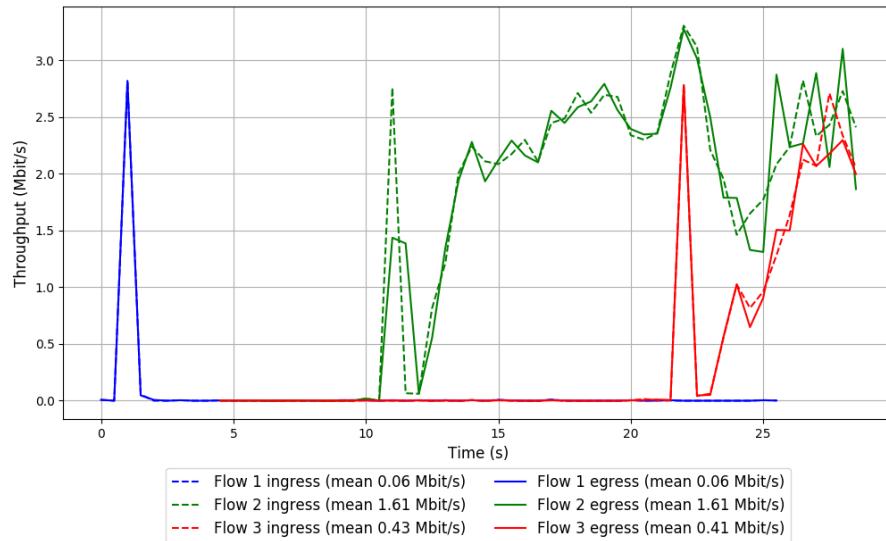


```
Run 2: Statistics of WebRTC media

Start at: 2017-09-08 04:29:18
End at: 2017-09-08 04:29:48

# Below is generated by plot.py at 2017-09-08 10:12:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.74 Mbit/s
95th percentile per-packet one-way delay: 50.767 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 51.191 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.61 Mbit/s
95th percentile per-packet one-way delay: 50.628 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 51.178 ms
Loss rate: 3.07%
```

Run 2: Report of WebRTC media — Data Link

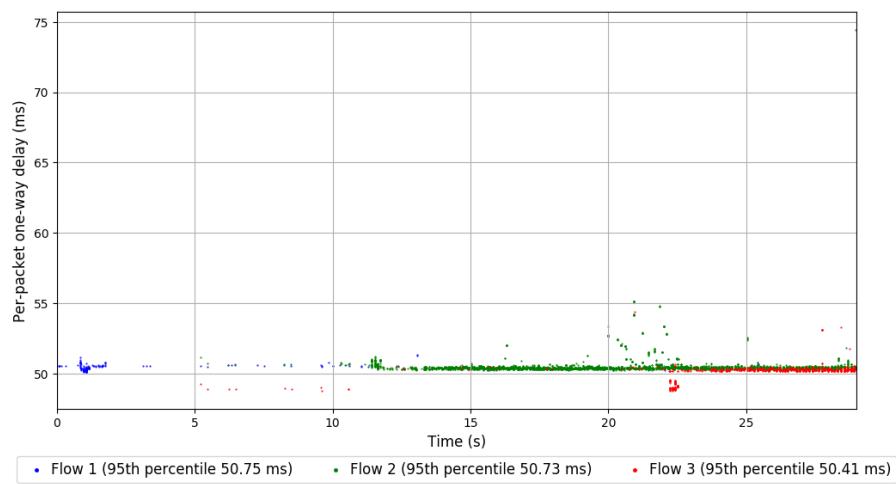
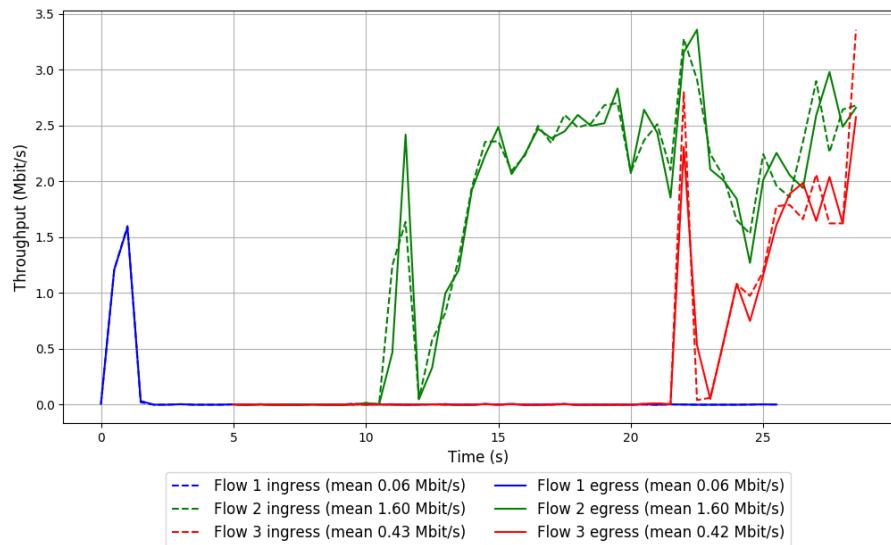


```
Run 3: Statistics of WebRTC media

Start at: 2017-09-08 04:41:39
End at: 2017-09-08 04:42:09

# Below is generated by plot.py at 2017-09-08 10:12:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.71 Mbit/s
95th percentile per-packet one-way delay: 50.651 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 50.753 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.60 Mbit/s
95th percentile per-packet one-way delay: 50.730 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 50.408 ms
Loss rate: 3.78%
```

Run 3: Report of WebRTC media — Data Link

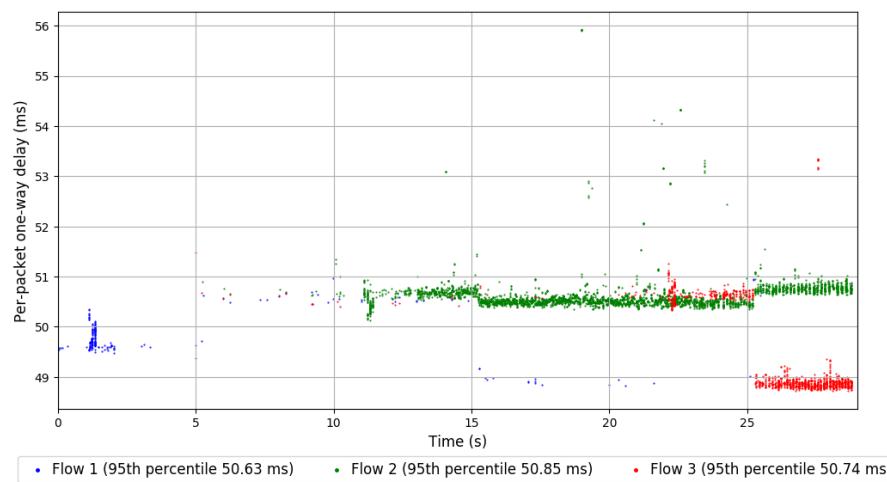
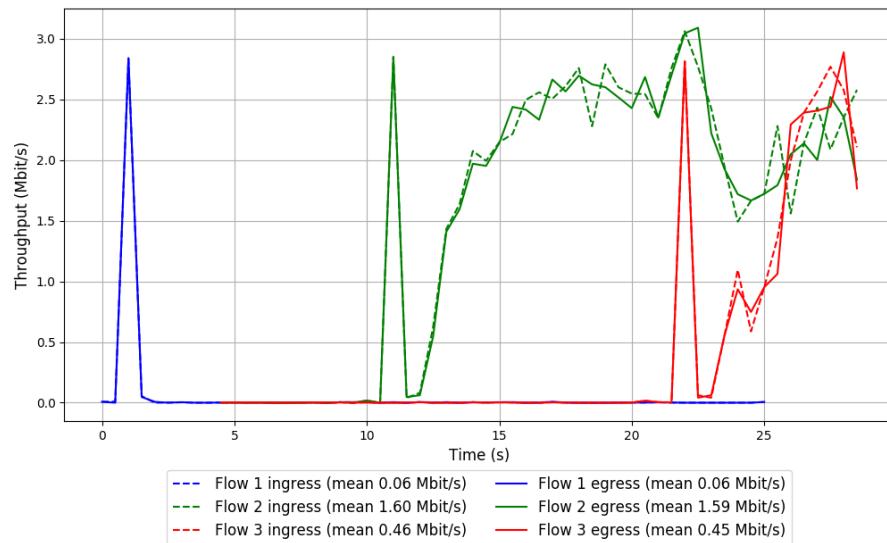


```
Run 4: Statistics of WebRTC media

Start at: 2017-09-08 04:53:45
End at: 2017-09-08 04:54:15

# Below is generated by plot.py at 2017-09-08 10:12:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.74 Mbit/s
95th percentile per-packet one-way delay: 50.832 ms
Loss rate: 1.24%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 50.629 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.59 Mbit/s
95th percentile per-packet one-way delay: 50.848 ms
Loss rate: 0.97%
-- Flow 3:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 50.740 ms
Loss rate: 2.35%
```

Run 4: Report of WebRTC media — Data Link

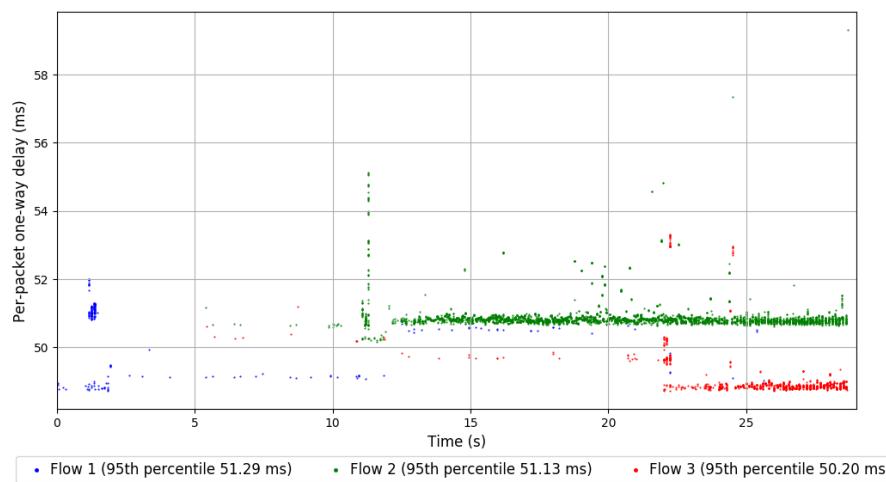
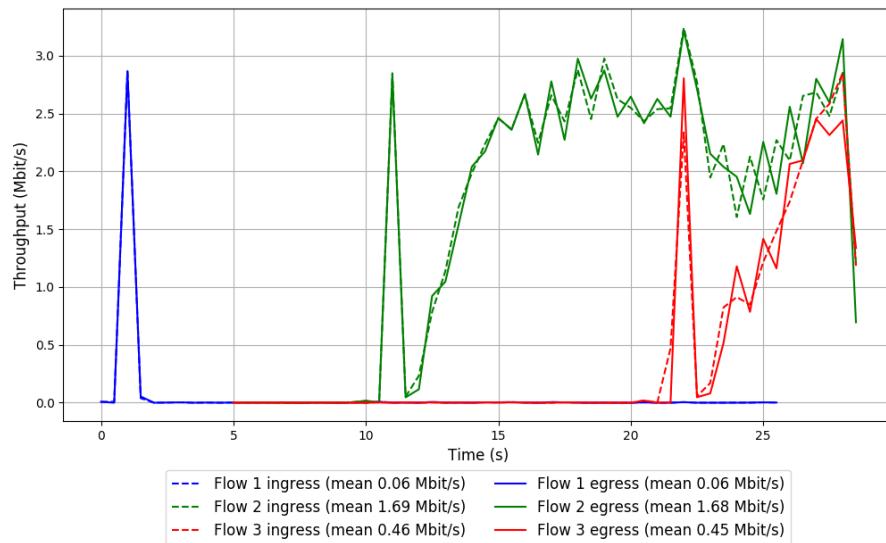


```
Run 5: Statistics of WebRTC media

Start at: 2017-09-08 05:06:08
End at: 2017-09-08 05:06:38

# Below is generated by plot.py at 2017-09-08 10:12:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.78 Mbit/s
95th percentile per-packet one-way delay: 51.180 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 51.292 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.68 Mbit/s
95th percentile per-packet one-way delay: 51.126 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 50.205 ms
Loss rate: 2.49%
```

Run 5: Report of WebRTC media — Data Link



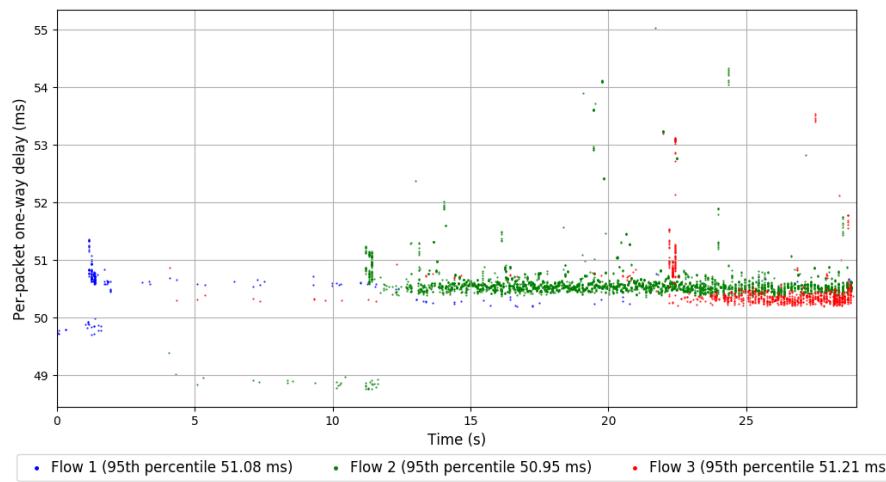
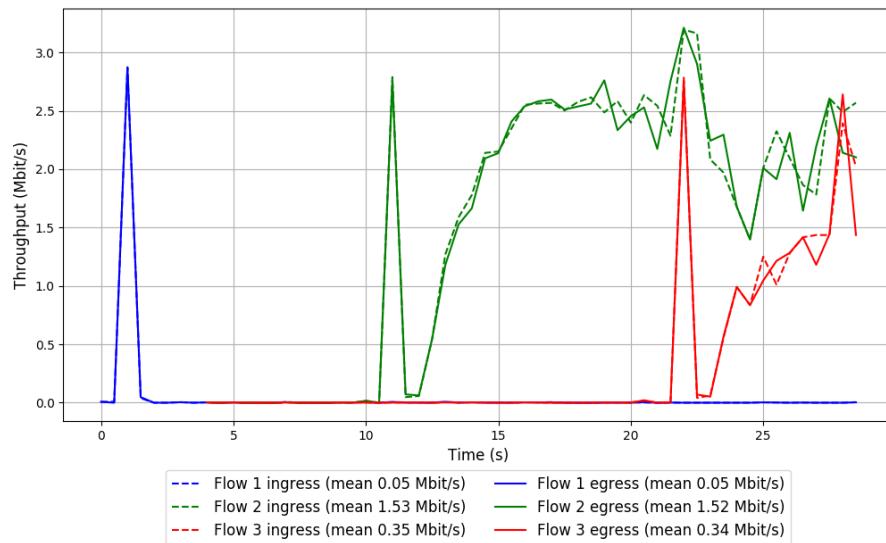
Run 6: Statistics of WebRTC media

Start at: 2017-09-08 05:18:29

End at: 2017-09-08 05:18:59

```
# Below is generated by plot.py at 2017-09-08 10:12:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.66 Mbit/s
95th percentile per-packet one-way delay: 51.004 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 51.076 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 1.52 Mbit/s
95th percentile per-packet one-way delay: 50.946 ms
Loss rate: 1.07%
-- Flow 3:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 51.213 ms
Loss rate: 3.35%
```

Run 6: Report of WebRTC media — Data Link

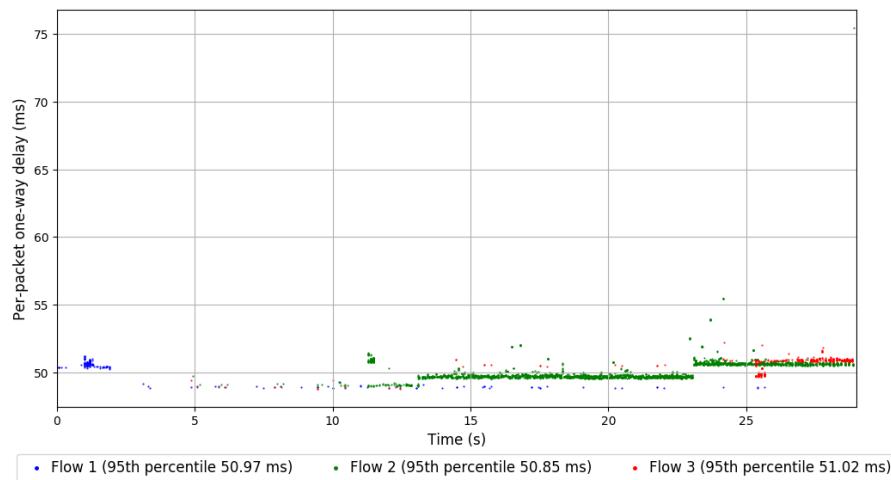
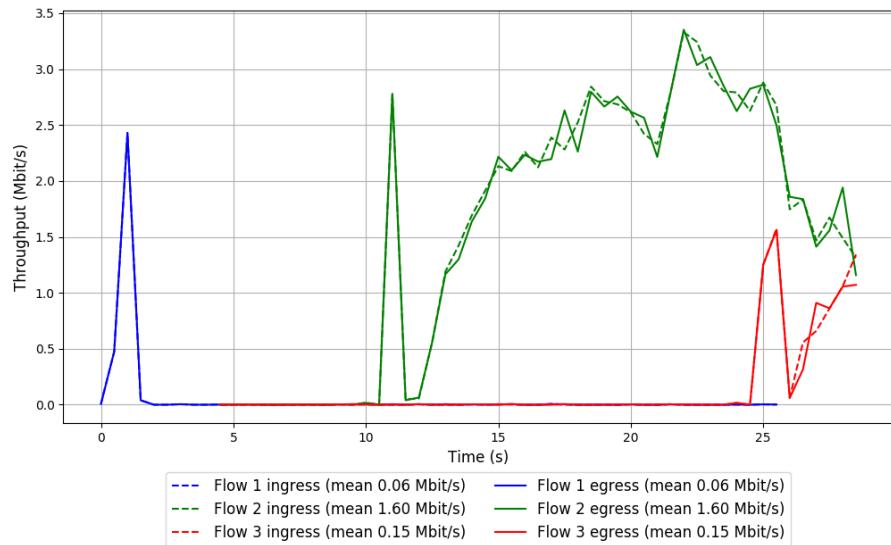


```
Run 7: Statistics of WebRTC media

Start at: 2017-09-08 05:30:37
End at: 2017-09-08 05:31:07

# Below is generated by plot.py at 2017-09-08 10:12:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.50 Mbit/s
95th percentile per-packet one-way delay: 50.939 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 50.966 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.60 Mbit/s
95th percentile per-packet one-way delay: 50.853 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 51.025 ms
Loss rate: 3.69%
```

### Run 7: Report of WebRTC media — Data Link

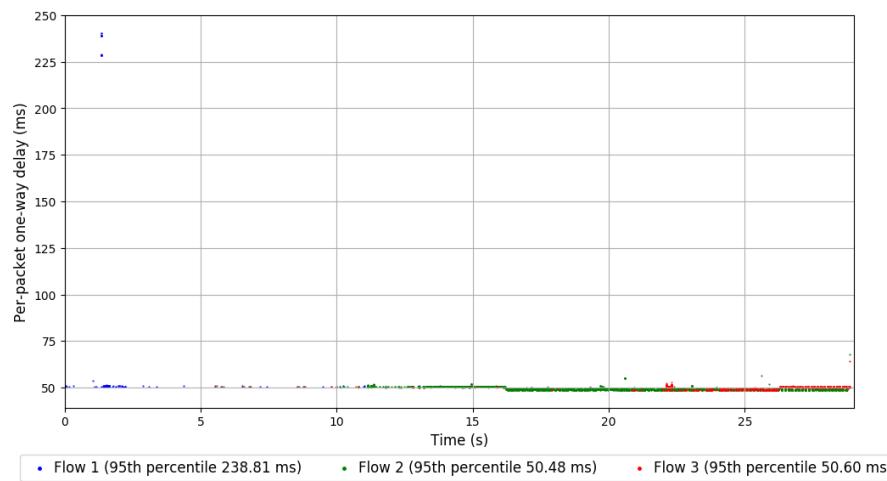
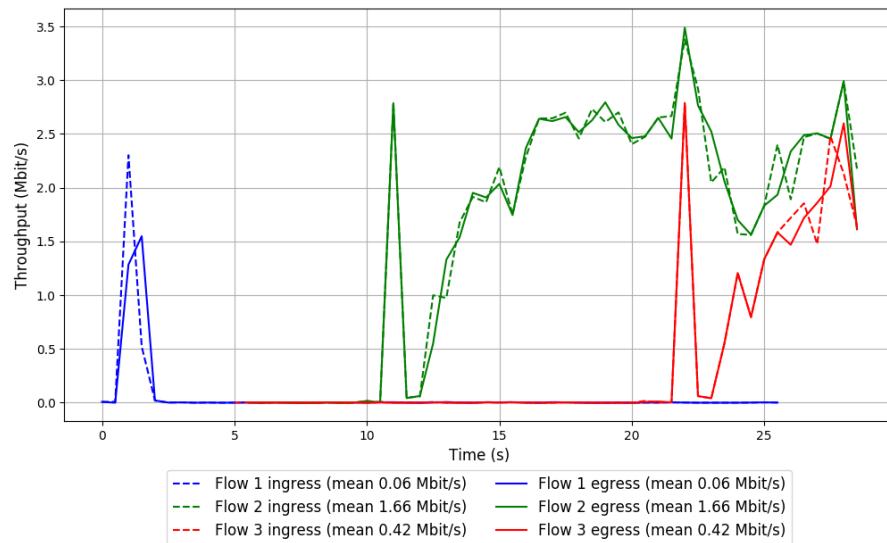


```
Run 8: Statistics of WebRTC media

Start at: 2017-09-08 05:42:44
End at: 2017-09-08 05:43:14

# Below is generated by plot.py at 2017-09-08 10:12:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.73 Mbit/s
95th percentile per-packet one-way delay: 50.699 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 238.806 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.66 Mbit/s
95th percentile per-packet one-way delay: 50.478 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 50.603 ms
Loss rate: 0.11%
```

Run 8: Report of WebRTC media — Data Link

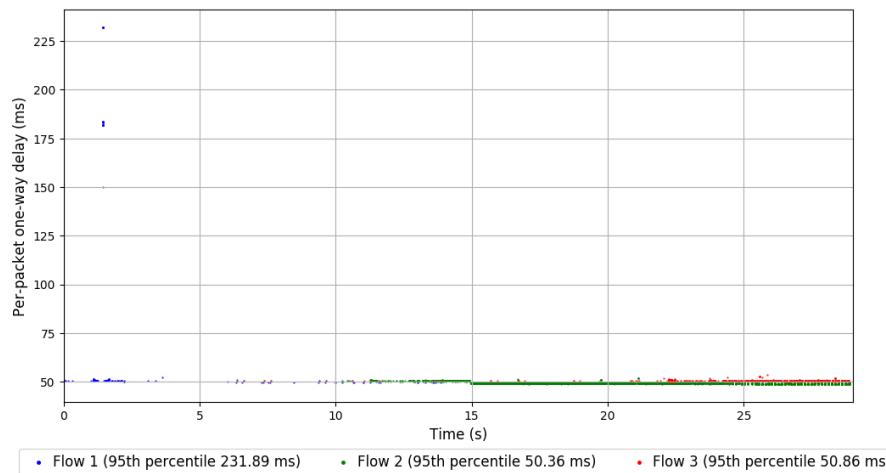
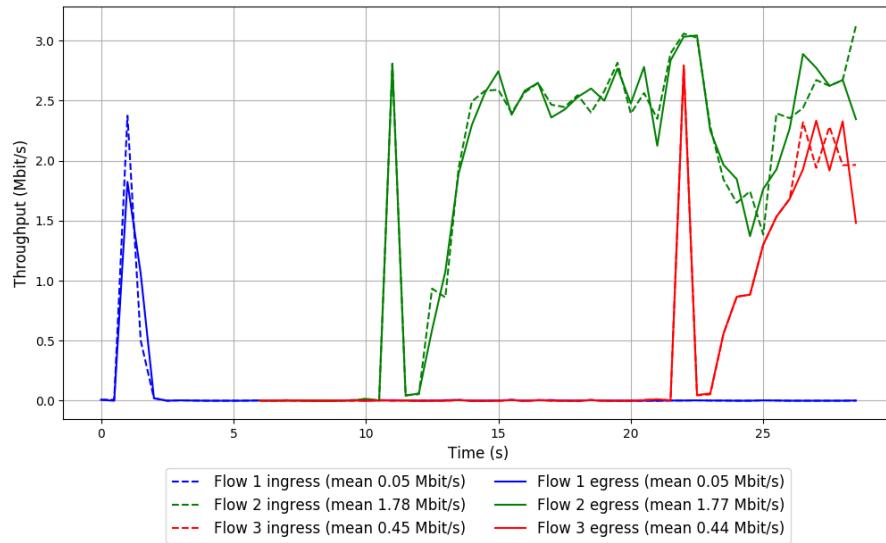


```
Run 9: Statistics of WebRTC media

Start at: 2017-09-08 05:54:56
End at: 2017-09-08 05:55:26

# Below is generated by plot.py at 2017-09-08 10:12:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.78 Mbit/s
95th percentile per-packet one-way delay: 50.515 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 231.888 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.77 Mbit/s
95th percentile per-packet one-way delay: 50.363 ms
Loss rate: 0.97%
-- Flow 3:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 50.857 ms
Loss rate: 2.39%
```

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



```
Run 10: Statistics of WebRTC media

Start at: 2017-09-08 06:07:11
End at: 2017-09-08 06:07:41

# Below is generated by plot.py at 2017-09-08 10:12:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.74 Mbit/s
95th percentile per-packet one-way delay: 50.608 ms
Loss rate: 1.24%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 50.993 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.65 Mbit/s
95th percentile per-packet one-way delay: 50.404 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 50.059 ms
Loss rate: 2.91%
```

Run 10: Report of WebRTC media — Data Link

