

Pantheon Report

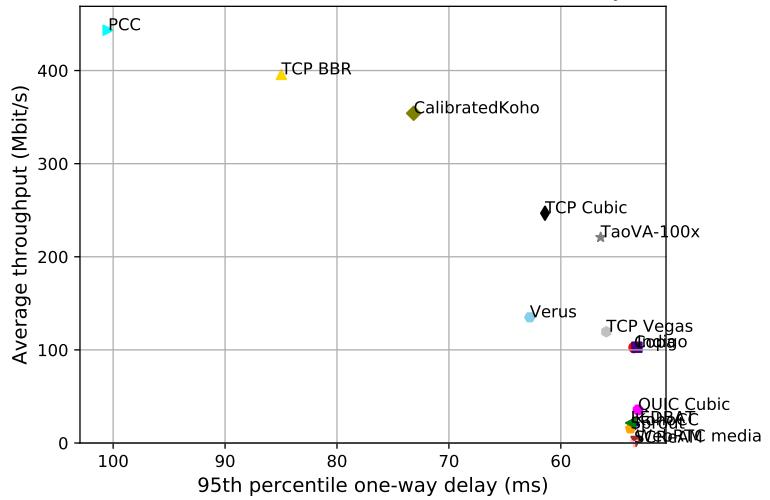
Generated at 2017-09-08 10:16:47 (UTC).
Data path: GCE Tokyo Ethernet (*remote*) → GCE Sydney Ethernet (*local*).
Repeated the test of 15 congestion control schemes 10 times.
Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.

Increased UDP receive buffer to 16 MB (default) and 32 MB (max).
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

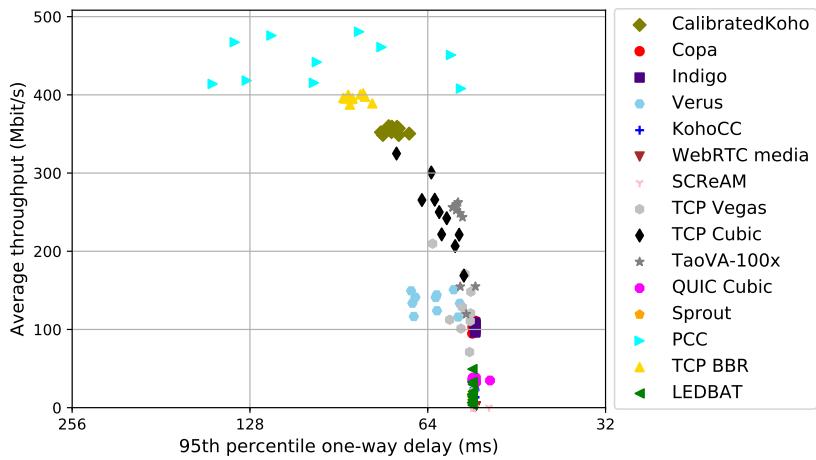
Git summary:

```
branch: master @ 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 @ b3465b942e2826f2b179aab4a906ce6bb7cf3cf
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 Tokyo Ethernet to GCE Sydney Ethernet, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



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



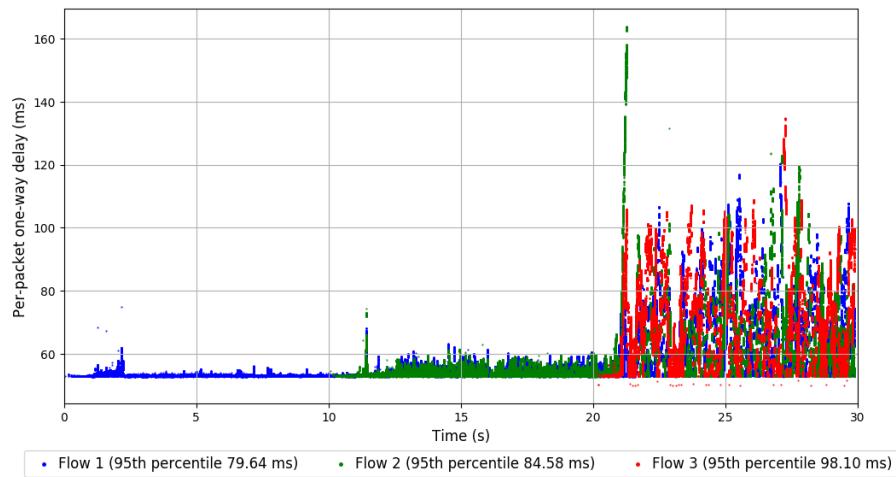
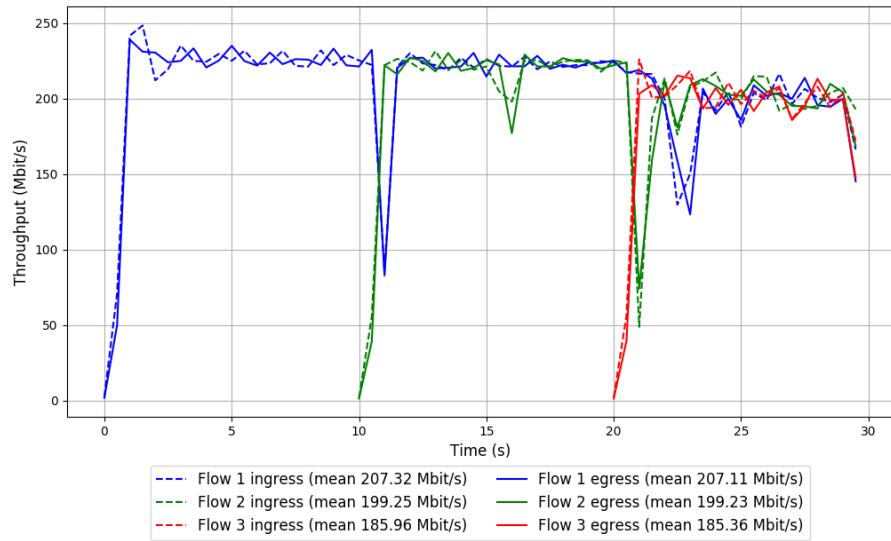
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	204.03	198.06	183.74	79.51	84.00	93.23	0.46	0.59	1.31
CalibratedKoho	10	220.03	152.81	100.00	73.47	72.43	75.47	0.25	0.46	1.84
Copa	10	61.84	51.07	49.08	53.36	53.30	53.32	0.21	0.42	1.30
TCP Cubic	10	126.04	134.02	96.13	60.58	60.52	62.17	0.40	0.68	1.50
Indigo	10	50.59	60.94	38.13	53.17	53.27	53.14	0.30	0.38	1.24
KohoCC	10	8.57	11.21	10.95	1085.17	53.37	53.39	0.23	0.54	1.09
LEDBAT	10	12.75	9.19	8.11	311.45	53.82	53.72	0.84	1.15	2.34
PCC	10	292.57	164.22	129.56	111.85	61.54	55.71	1.19	0.37	1.07
QUIC Cubic	10	0.06	40.35	27.16	54.96	52.40	52.96	0.00	0.54	1.40
SCReAM	10	0.21	0.21	0.22	52.47	51.47	51.89	0.37	0.44	0.96
Sprout	10	7.79	7.72	7.43	53.77	53.77	53.78	0.57	0.64	1.24
TaoVA-100x	10	137.29	109.00	65.19	55.59	56.51	55.30	0.27	0.35	1.19
TCP Vegas	10	59.39	57.43	66.16	54.69	54.60	57.25	0.36	0.48	0.99
Verus	10	82.19	57.61	45.66	63.23	62.50	58.80	0.21	0.54	1.01
WebRTC media	10	0.06	1.52	0.37	53.59	51.61	53.61	0.02	0.71	2.75

```
Run 1: Statistics of TCP BBR

Start at: 2017-09-08 04:21:08
End at: 2017-09-08 04:21:38

# Below is generated by plot.py at 2017-09-08 09:36:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 400.21 Mbit/s
95th percentile per-packet one-way delay: 87.262 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 207.11 Mbit/s
95th percentile per-packet one-way delay: 79.641 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 199.23 Mbit/s
95th percentile per-packet one-way delay: 84.585 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 185.36 Mbit/s
95th percentile per-packet one-way delay: 98.103 ms
Loss rate: 1.43%
```

Run 1: Report of TCP BBR — Data Link



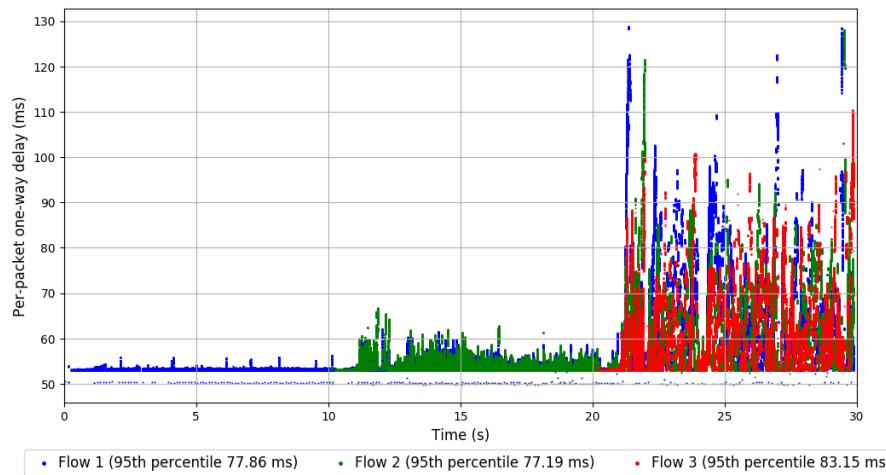
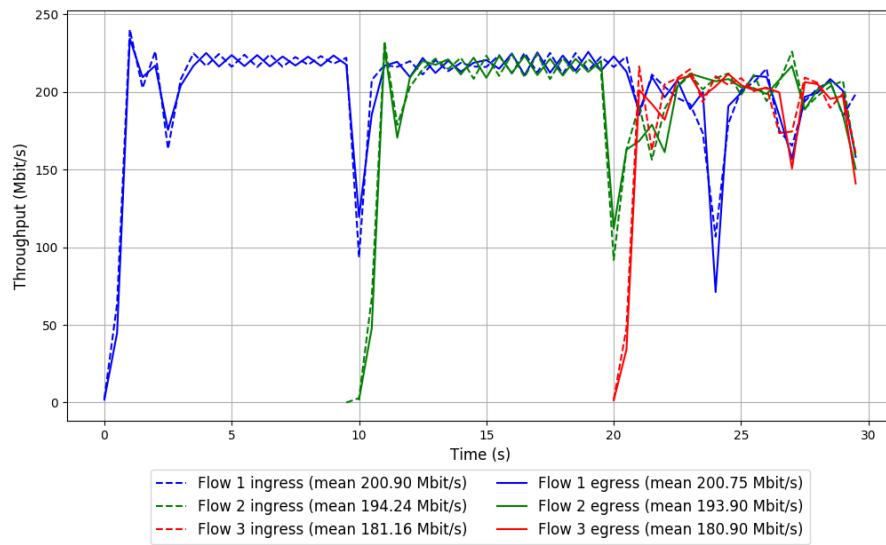
Run 2: Statistics of TCP BBR

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

End at: 2017-09-08 04:34:03

```
# Below is generated by plot.py at 2017-09-08 09:36:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 389.05 Mbit/s
95th percentile per-packet one-way delay: 79.446 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 200.75 Mbit/s
95th percentile per-packet one-way delay: 77.865 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 193.90 Mbit/s
95th percentile per-packet one-way delay: 77.186 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 180.90 Mbit/s
95th percentile per-packet one-way delay: 83.151 ms
Loss rate: 1.24%
```

Run 2: Report of TCP BBR — Data Link



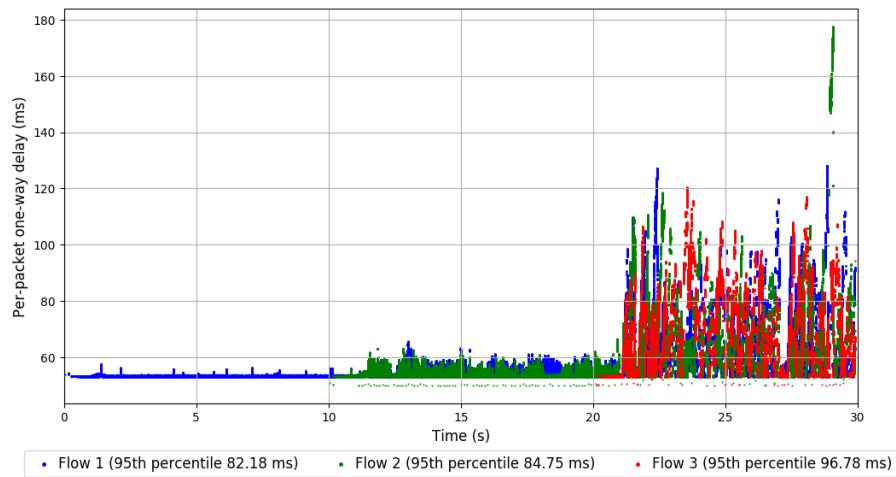
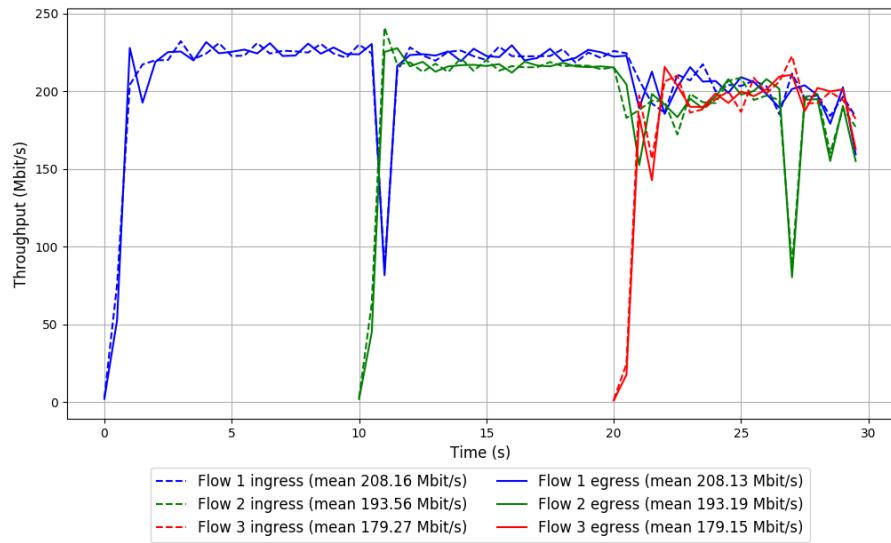
Run 3: Statistics of TCP BBR

Start at: 2017-09-08 04:45:55

End at: 2017-09-08 04:46:25

```
# Below is generated by plot.py at 2017-09-08 09:38:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 395.27 Mbit/s
95th percentile per-packet one-way delay: 88.304 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 208.13 Mbit/s
95th percentile per-packet one-way delay: 82.184 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 193.19 Mbit/s
95th percentile per-packet one-way delay: 84.753 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 179.15 Mbit/s
95th percentile per-packet one-way delay: 96.779 ms
Loss rate: 1.20%
```

Run 3: Report of TCP BBR — Data Link



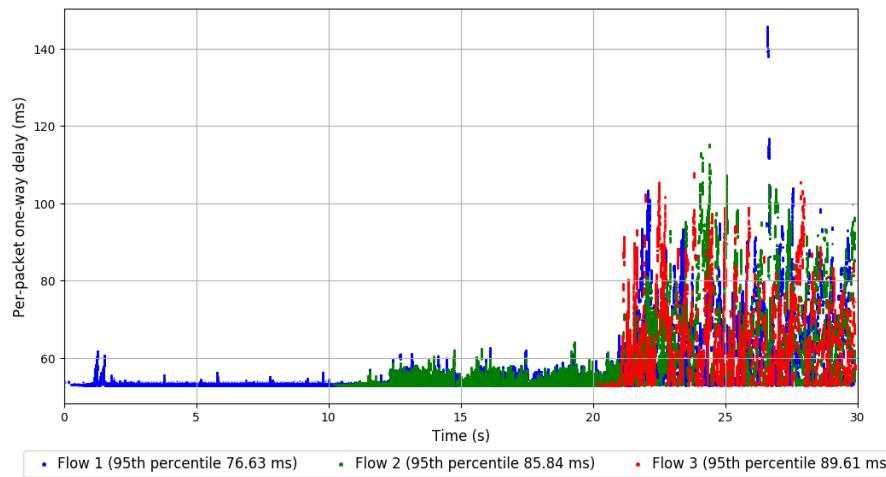
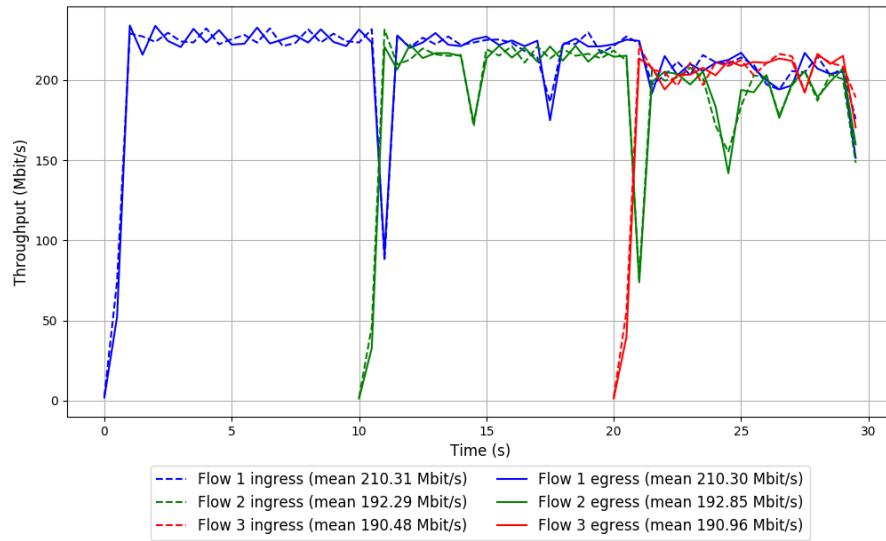
Run 4: Statistics of TCP BBR

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

End at: 2017-09-08 04:58:44

```
# Below is generated by plot.py at 2017-09-08 09:38:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 400.60 Mbit/s
95th percentile per-packet one-way delay: 83.211 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 210.30 Mbit/s
95th percentile per-packet one-way delay: 76.634 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 192.85 Mbit/s
95th percentile per-packet one-way delay: 85.840 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 190.96 Mbit/s
95th percentile per-packet one-way delay: 89.615 ms
Loss rate: 1.11%
```

Run 4: Report of TCP BBR — Data Link



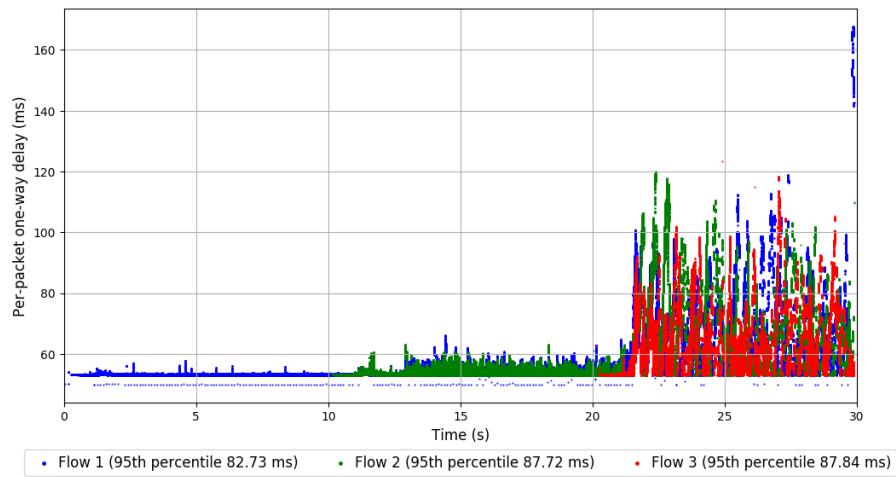
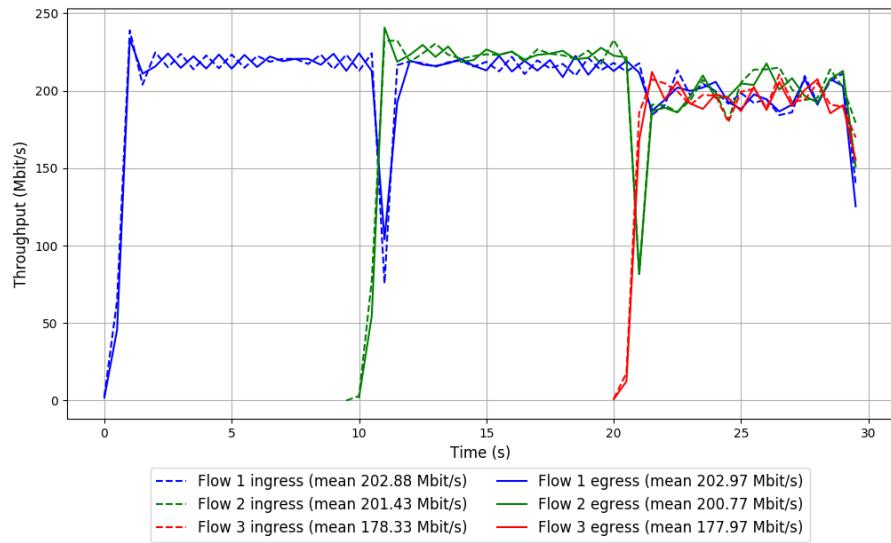
Run 5: Statistics of TCP BBR

Start at: 2017-09-08 05:10:37

End at: 2017-09-08 05:11:07

```
# Below is generated by plot.py at 2017-09-08 09:39:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 394.64 Mbit/s
95th percentile per-packet one-way delay: 85.949 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 202.97 Mbit/s
95th percentile per-packet one-way delay: 82.732 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 200.77 Mbit/s
95th percentile per-packet one-way delay: 87.716 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 177.97 Mbit/s
95th percentile per-packet one-way delay: 87.842 ms
Loss rate: 1.28%
```

Run 5: Report of TCP BBR — Data Link



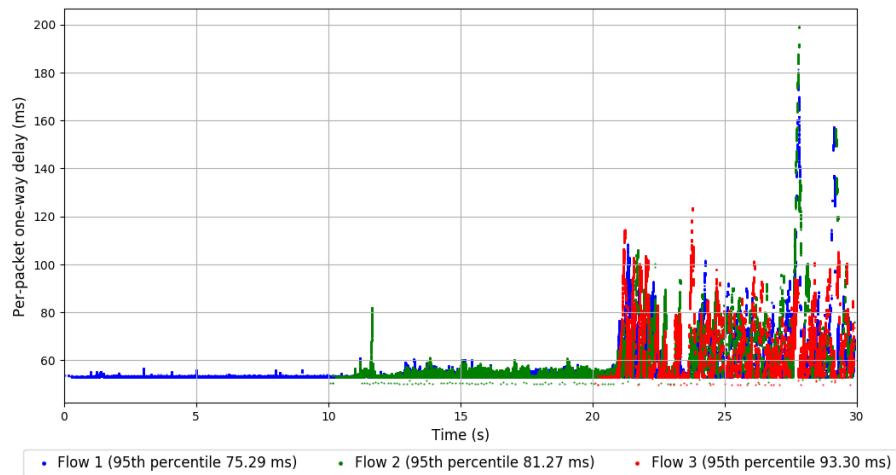
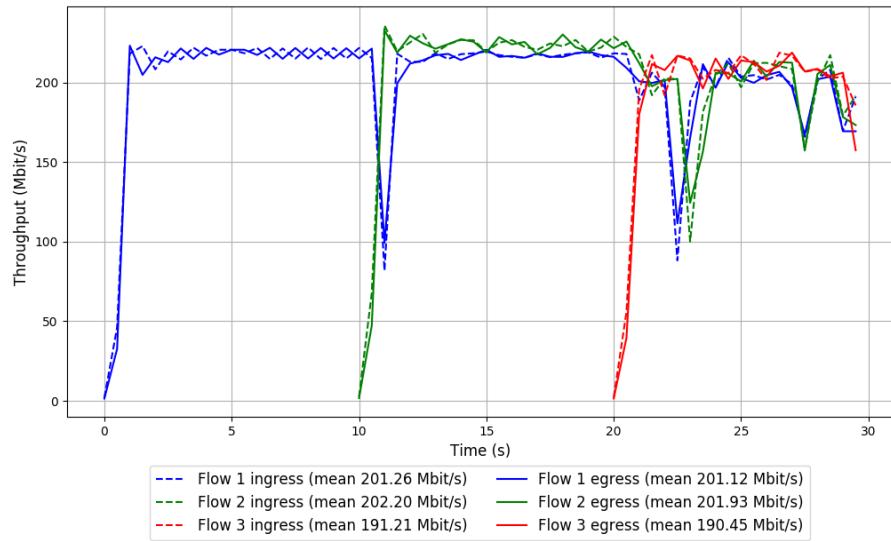
Run 6: Statistics of TCP BBR

Start at: 2017-09-08 05:22:48

End at: 2017-09-08 05:23:18

```
# Below is generated by plot.py at 2017-09-08 09:39:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 397.71 Mbit/s
95th percentile per-packet one-way delay: 81.742 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 201.12 Mbit/s
95th percentile per-packet one-way delay: 75.288 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 201.93 Mbit/s
95th percentile per-packet one-way delay: 81.267 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 190.45 Mbit/s
95th percentile per-packet one-way delay: 93.302 ms
Loss rate: 1.41%
```

Run 6: Report of TCP BBR — Data Link



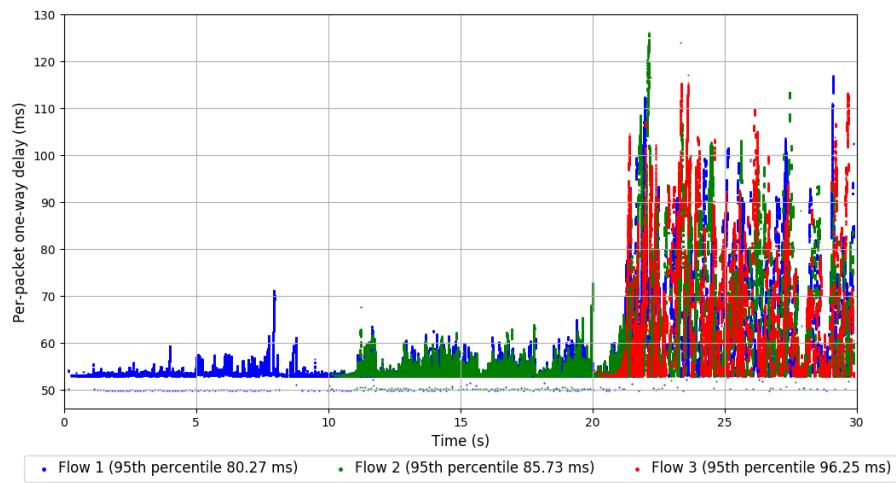
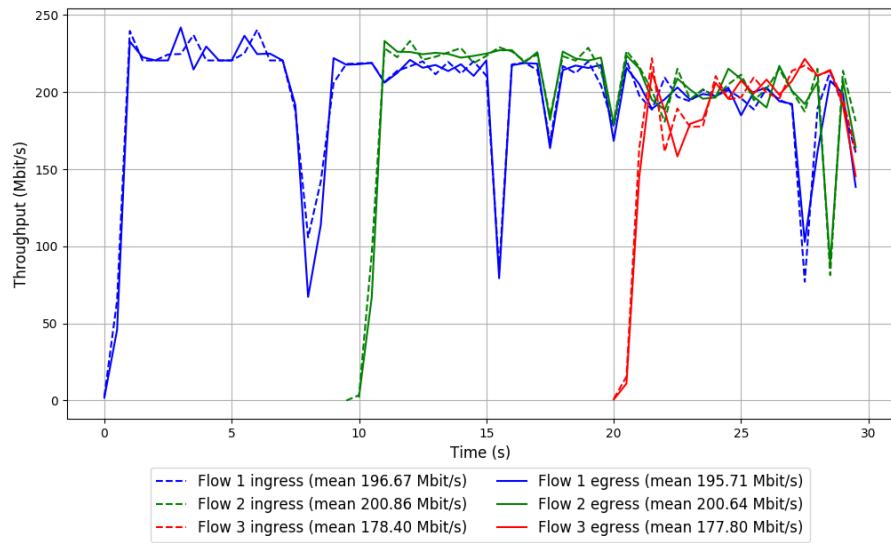
Run 7: Statistics of TCP BBR

Start at: 2017-09-08 05:35:20

End at: 2017-09-08 05:35:50

```
# Below is generated by plot.py at 2017-09-08 09:40:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 387.52 Mbit/s
95th percentile per-packet one-way delay: 86.719 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 195.71 Mbit/s
95th percentile per-packet one-way delay: 80.274 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 200.64 Mbit/s
95th percentile per-packet one-way delay: 85.735 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 177.80 Mbit/s
95th percentile per-packet one-way delay: 96.249 ms
Loss rate: 1.29%
```

Run 7: Report of TCP BBR — Data Link



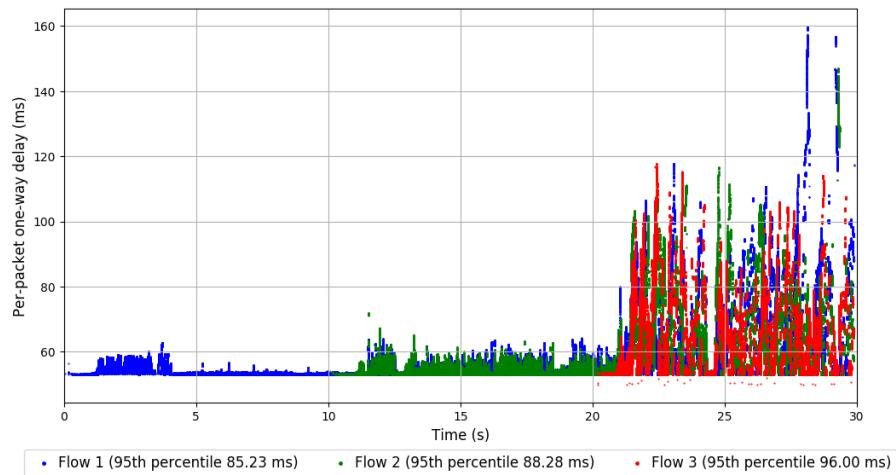
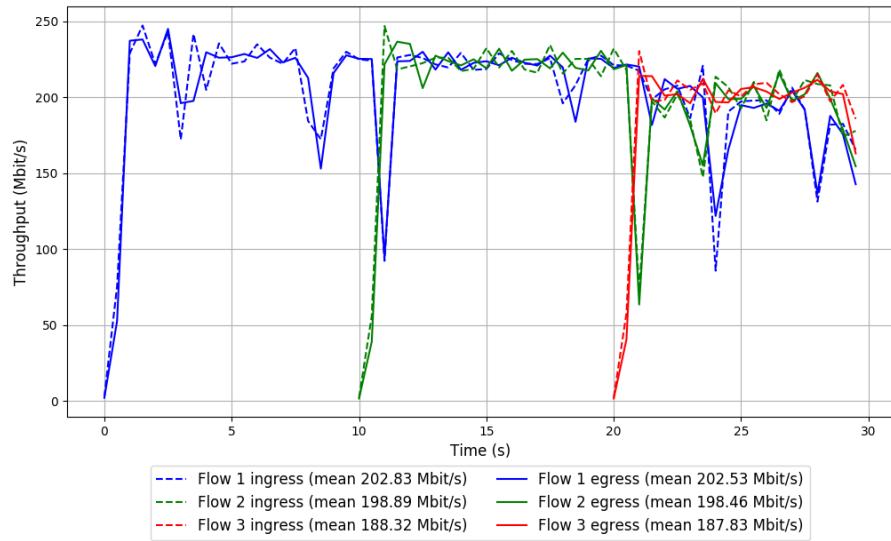
Run 8: Statistics of TCP BBR

Start at: 2017-09-08 05:47:26

End at: 2017-09-08 05:47:56

```
# Below is generated by plot.py at 2017-09-08 09:40:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 396.09 Mbit/s
95th percentile per-packet one-way delay: 88.933 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 202.53 Mbit/s
95th percentile per-packet one-way delay: 85.226 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 198.46 Mbit/s
95th percentile per-packet one-way delay: 88.280 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 187.83 Mbit/s
95th percentile per-packet one-way delay: 96.002 ms
Loss rate: 1.34%
```

Run 8: Report of TCP BBR — Data Link



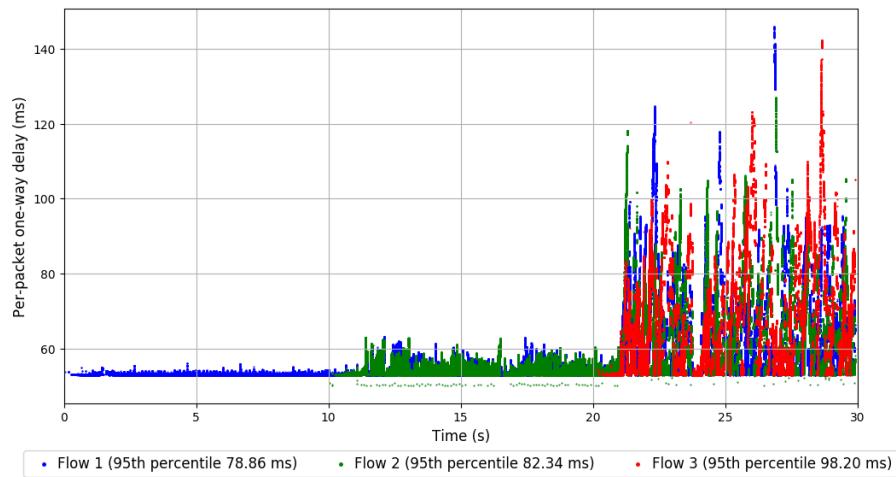
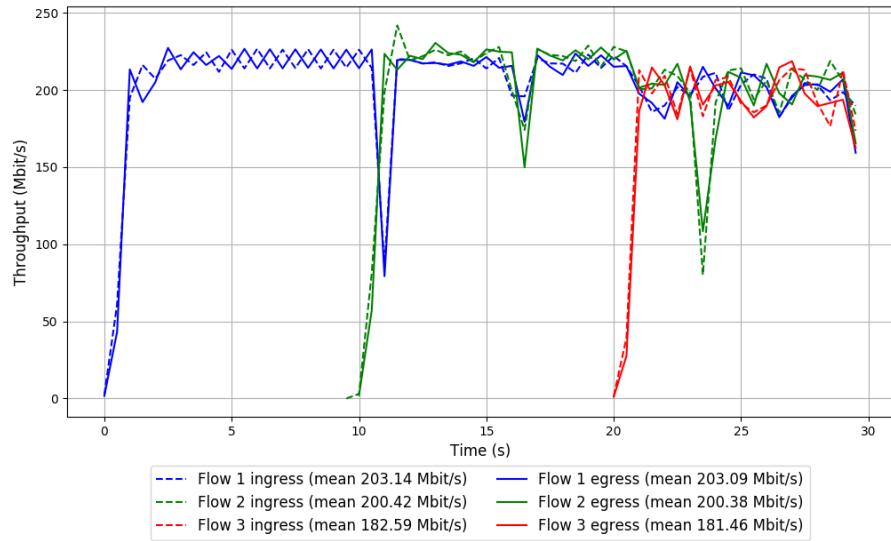
Run 9: Statistics of TCP BBR

Start at: 2017-09-08 05:59:45

End at: 2017-09-08 06:00:15

```
# Below is generated by plot.py at 2017-09-08 09:42:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 395.76 Mbit/s
95th percentile per-packet one-way delay: 85.804 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 203.09 Mbit/s
95th percentile per-packet one-way delay: 78.861 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 200.38 Mbit/s
95th percentile per-packet one-way delay: 82.344 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 181.46 Mbit/s
95th percentile per-packet one-way delay: 98.197 ms
Loss rate: 1.41%
```

Run 9: Report of TCP BBR — Data Link



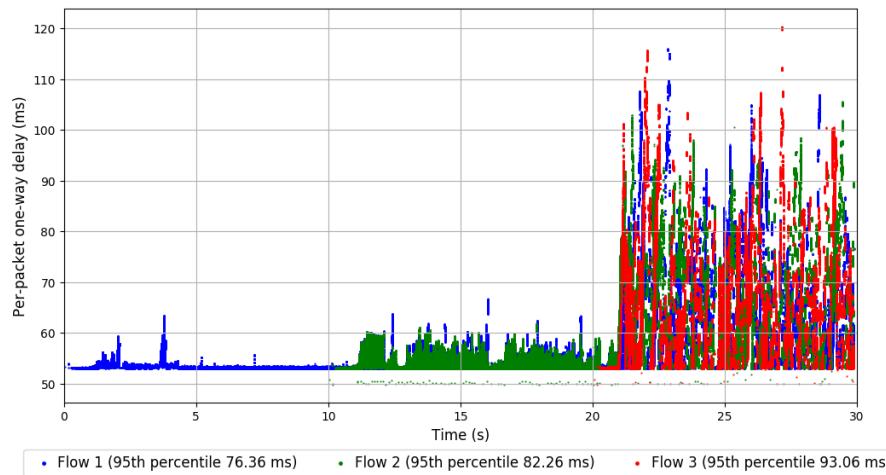
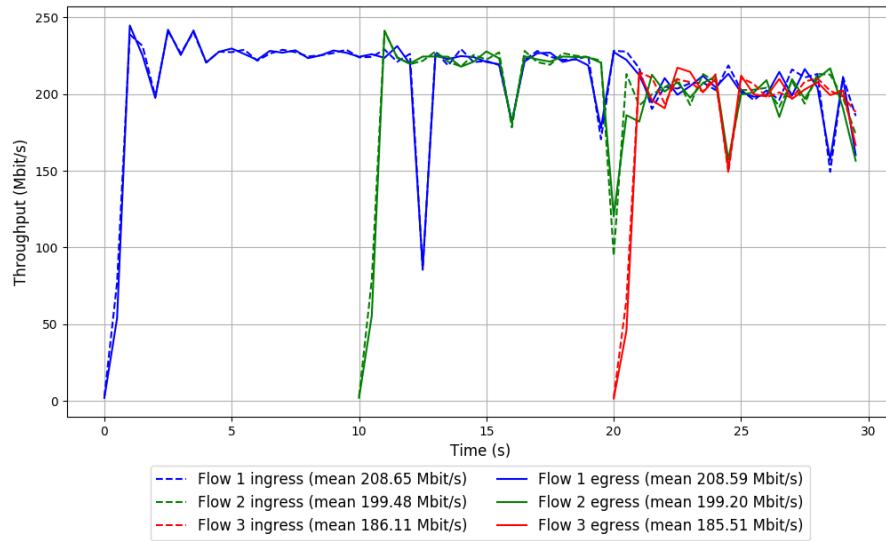
Run 10: Statistics of TCP BBR

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

End at: 2017-09-08 06:12:38

```
# Below is generated by plot.py at 2017-09-08 09:42:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 401.96 Mbit/s
95th percentile per-packet one-way delay: 82.342 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 208.59 Mbit/s
95th percentile per-packet one-way delay: 76.360 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 199.20 Mbit/s
95th percentile per-packet one-way delay: 82.257 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 185.51 Mbit/s
95th percentile per-packet one-way delay: 93.063 ms
Loss rate: 1.35%
```

Run 10: Report of TCP BBR — Data Link

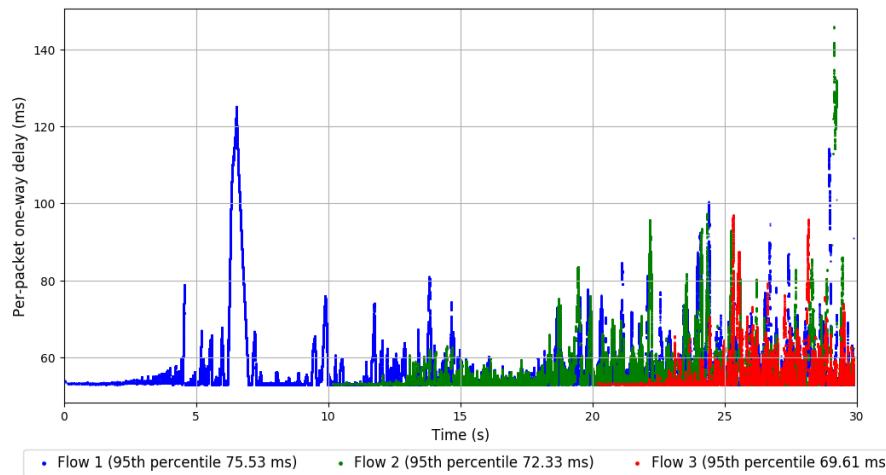
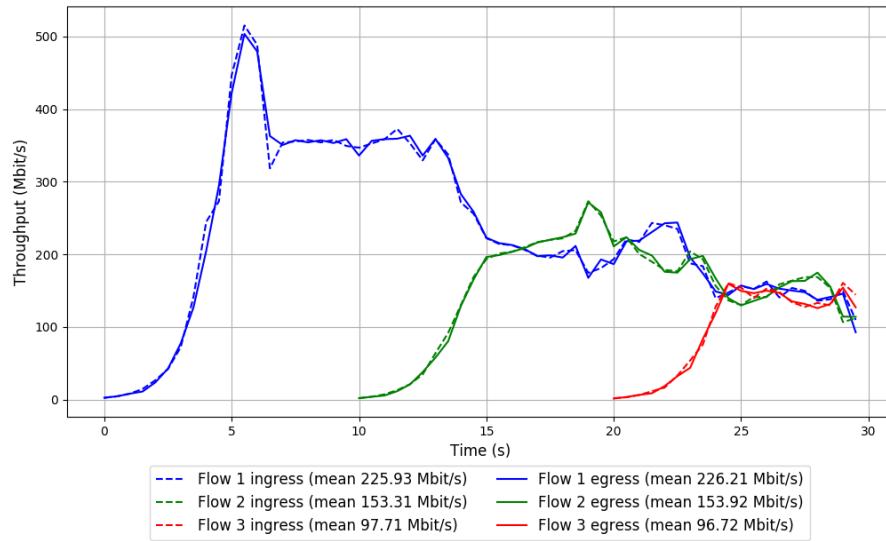


```
Run 1: Statistics of CalibratedKoho

Start at: 2017-09-08 04:19:05
End at: 2017-09-08 04:19:35

# Below is generated by plot.py at 2017-09-08 09:43:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 359.29 Mbit/s
95th percentile per-packet one-way delay: 73.625 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 226.21 Mbit/s
95th percentile per-packet one-way delay: 75.535 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 153.92 Mbit/s
95th percentile per-packet one-way delay: 72.332 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 96.72 Mbit/s
95th percentile per-packet one-way delay: 69.606 ms
Loss rate: 2.07%
```

Run 1: Report of CalibratedKoho — Data Link



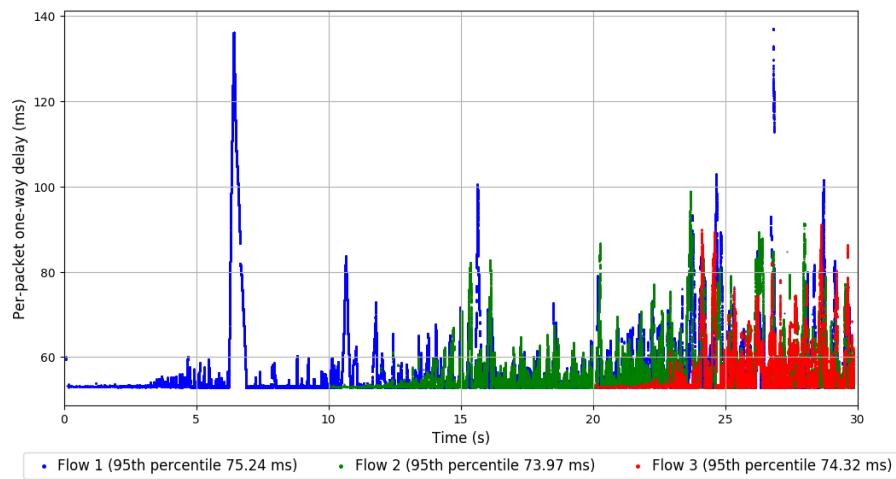
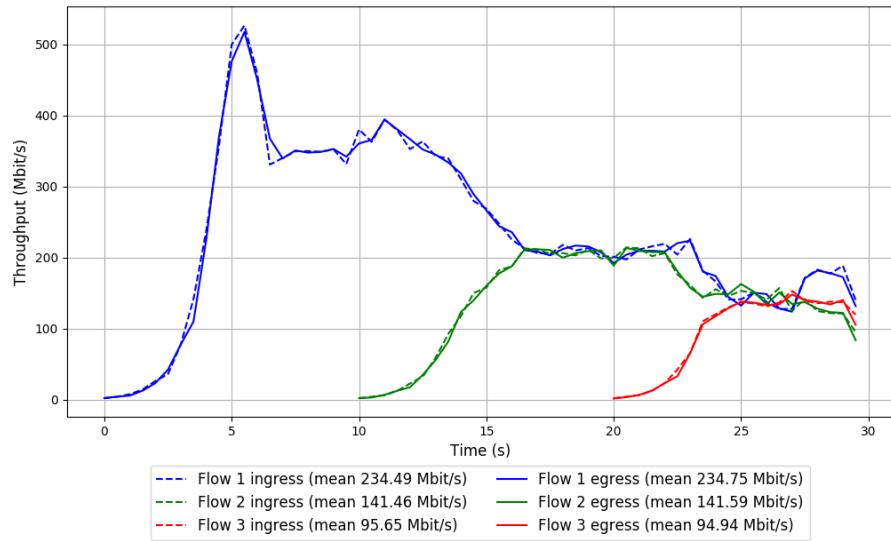
```
Run 2: Statistics of CalibratedKoho
```

```
Start at: 2017-09-08 04:31:36
```

```
End at: 2017-09-08 04:32:06
```

```
# Below is generated by plot.py at 2017-09-08 09:43:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 359.91 Mbit/s
95th percentile per-packet one-way delay: 74.516 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 234.75 Mbit/s
95th percentile per-packet one-way delay: 75.236 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 141.59 Mbit/s
95th percentile per-packet one-way delay: 73.966 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 94.94 Mbit/s
95th percentile per-packet one-way delay: 74.318 ms
Loss rate: 1.76%
```

Run 2: Report of CalibratedKoho — Data Link



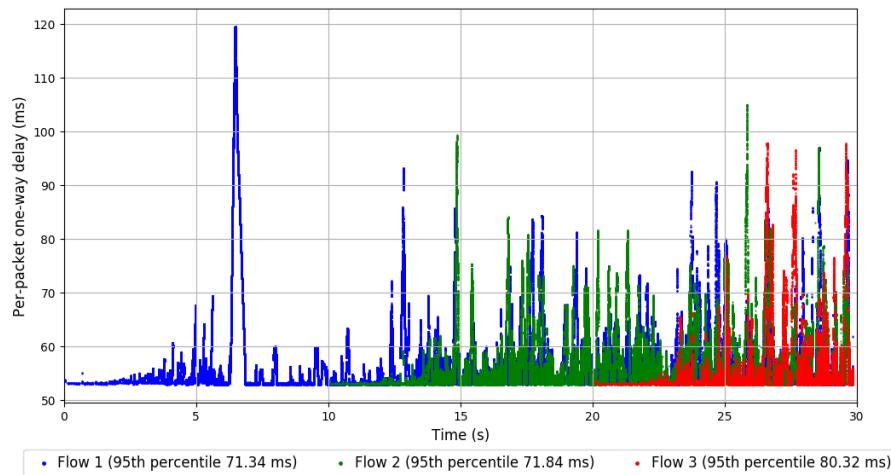
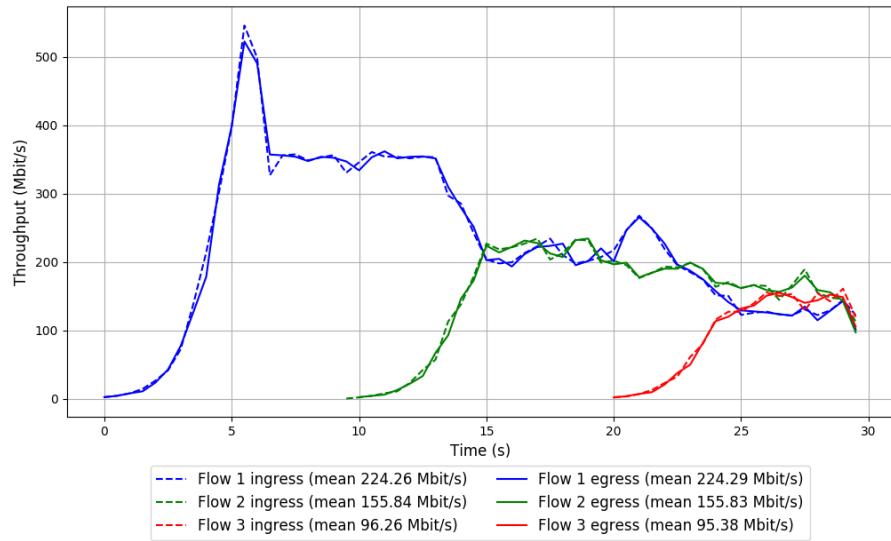
```
Run 3: Statistics of CalibratedKoho
```

```
Start at: 2017-09-08 04:43:54
```

```
End at: 2017-09-08 04:44:24
```

```
# Below is generated by plot.py at 2017-09-08 09:44:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 359.11 Mbit/s
95th percentile per-packet one-way delay: 72.153 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 224.29 Mbit/s
95th percentile per-packet one-way delay: 71.341 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 155.83 Mbit/s
95th percentile per-packet one-way delay: 71.840 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 95.38 Mbit/s
95th percentile per-packet one-way delay: 80.322 ms
Loss rate: 2.04%
```

Run 3: Report of CalibratedKoho — Data Link



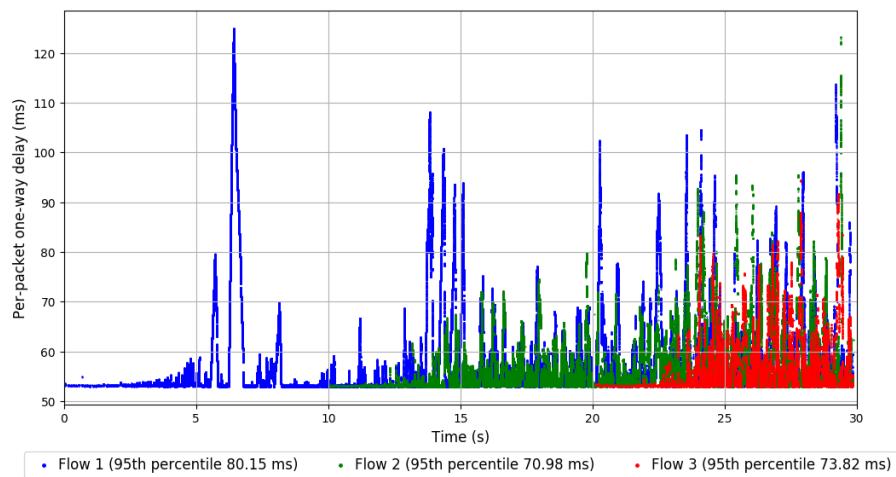
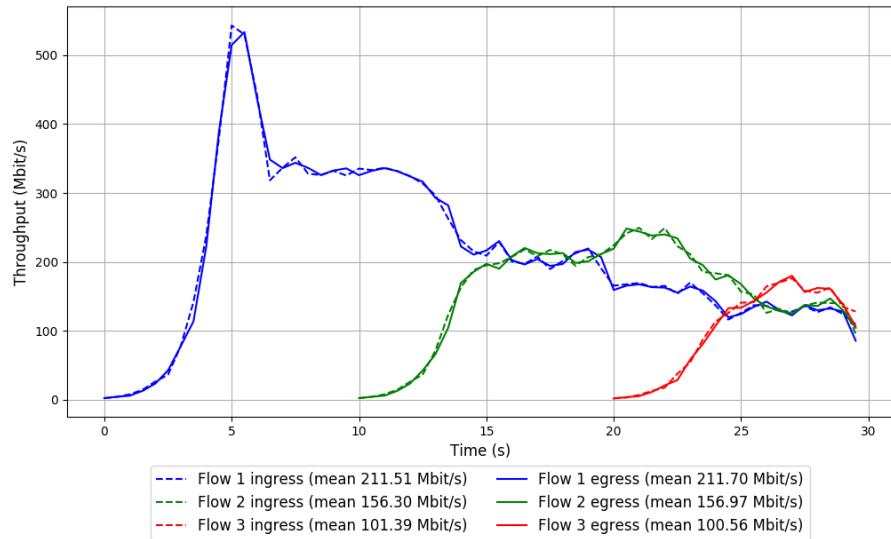
```
Run 4: Statistics of CalibratedKoho
```

```
Start at: 2017-09-08 04:56:16
```

```
End at: 2017-09-08 04:56:46
```

```
# Below is generated by plot.py at 2017-09-08 09:44:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 348.74 Mbit/s
95th percentile per-packet one-way delay: 76.231 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 211.70 Mbit/s
95th percentile per-packet one-way delay: 80.150 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 156.97 Mbit/s
95th percentile per-packet one-way delay: 70.984 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 100.56 Mbit/s
95th percentile per-packet one-way delay: 73.820 ms
Loss rate: 1.82%
```

Run 4: Report of CalibratedKoho — Data Link



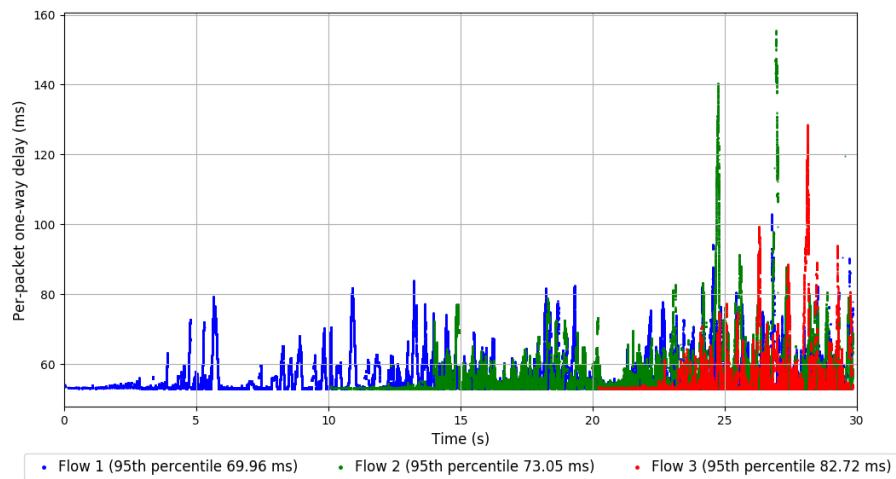
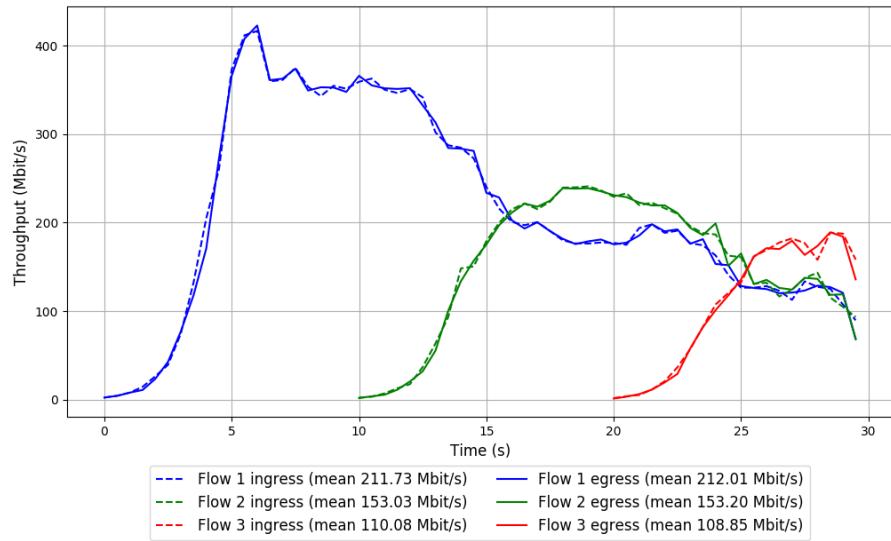
```
Run 5: Statistics of CalibratedKoho
```

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

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

```
# Below is generated by plot.py at 2017-09-08 09:45:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 348.61 Mbit/s
95th percentile per-packet one-way delay: 71.654 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 212.01 Mbit/s
95th percentile per-packet one-way delay: 69.961 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 153.20 Mbit/s
95th percentile per-packet one-way delay: 73.051 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 108.85 Mbit/s
95th percentile per-packet one-way delay: 82.724 ms
Loss rate: 2.14%
```

Run 5: Report of CalibratedKoho — Data Link



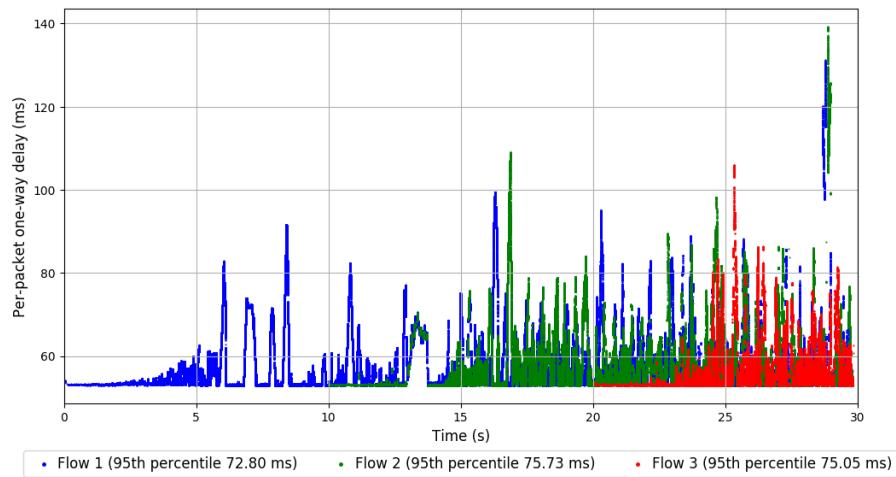
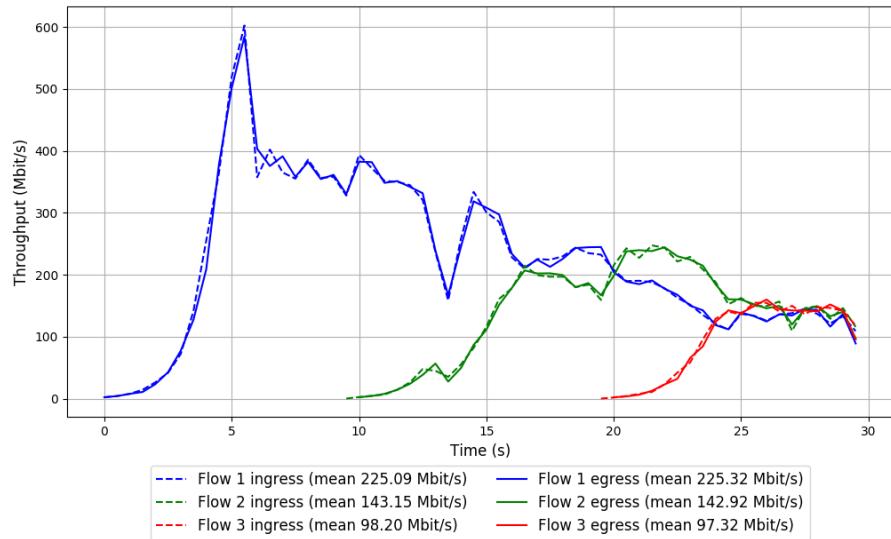
```
Run 6: Statistics of CalibratedKoho
```

```
Start at: 2017-09-08 05:20:48
```

```
End at: 2017-09-08 05:21:18
```

```
# Below is generated by plot.py at 2017-09-08 09:45:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 352.40 Mbit/s
95th percentile per-packet one-way delay: 73.716 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 225.32 Mbit/s
95th percentile per-packet one-way delay: 72.797 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 142.92 Mbit/s
95th percentile per-packet one-way delay: 75.727 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 97.32 Mbit/s
95th percentile per-packet one-way delay: 75.048 ms
Loss rate: 1.87%
```

Run 6: Report of CalibratedKoho — Data Link



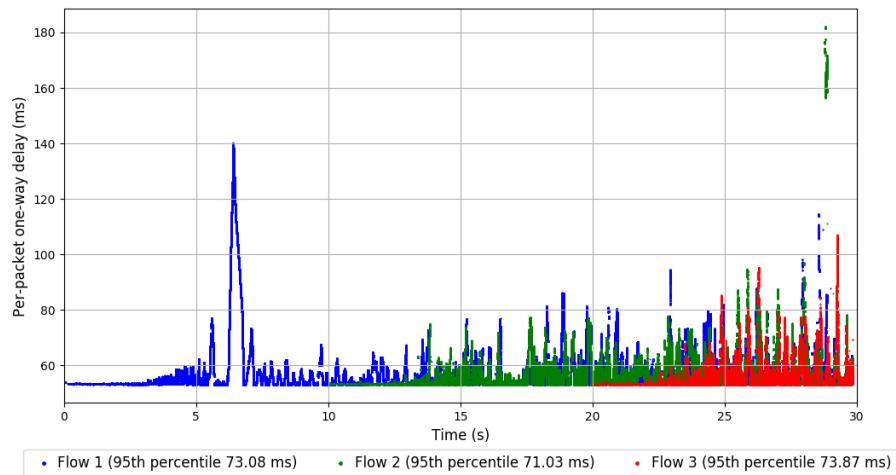
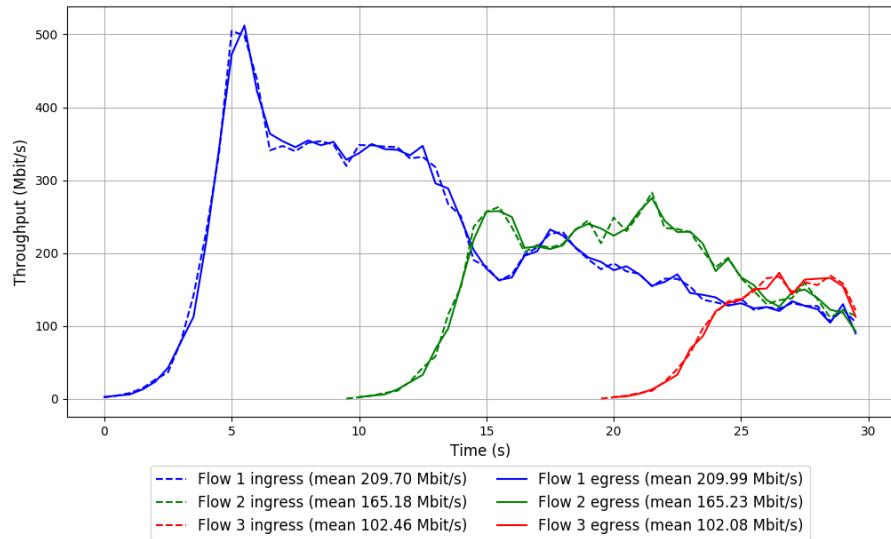
```
Run 7: Statistics of CalibratedKoho
```

```
Start at: 2017-09-08 05:33:16
```

```
End at: 2017-09-08 05:33:46
```

```
# Below is generated by plot.py at 2017-09-08 09:46:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 353.42 Mbit/s
95th percentile per-packet one-way delay: 72.318 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 209.99 Mbit/s
95th percentile per-packet one-way delay: 73.075 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 165.23 Mbit/s
95th percentile per-packet one-way delay: 71.030 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 102.08 Mbit/s
95th percentile per-packet one-way delay: 73.871 ms
Loss rate: 1.40%
```

Run 7: Report of CalibratedKoho — Data Link



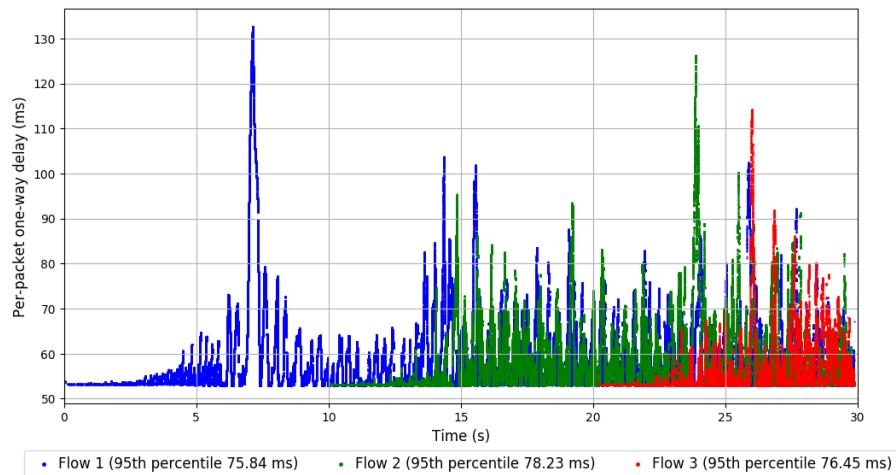
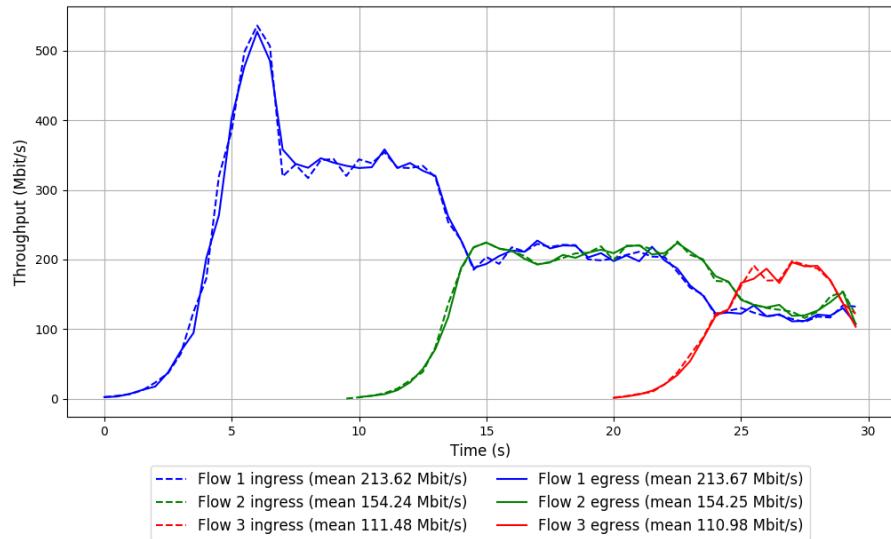
```
Run 8: Statistics of CalibratedKoho
```

```
Start at: 2017-09-08 05:45:27
```

```
End at: 2017-09-08 05:45:57
```

```
# Below is generated by plot.py at 2017-09-08 09:46:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 352.13 Mbit/s
95th percentile per-packet one-way delay: 76.820 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 213.67 Mbit/s
95th percentile per-packet one-way delay: 75.837 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 154.25 Mbit/s
95th percentile per-packet one-way delay: 78.234 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 110.98 Mbit/s
95th percentile per-packet one-way delay: 76.450 ms
Loss rate: 1.63%
```

Run 8: Report of CalibratedKoho — Data Link



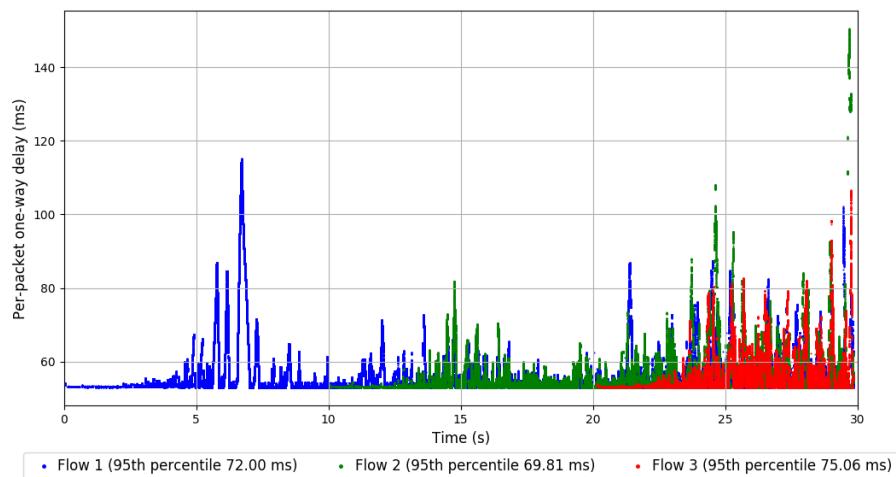
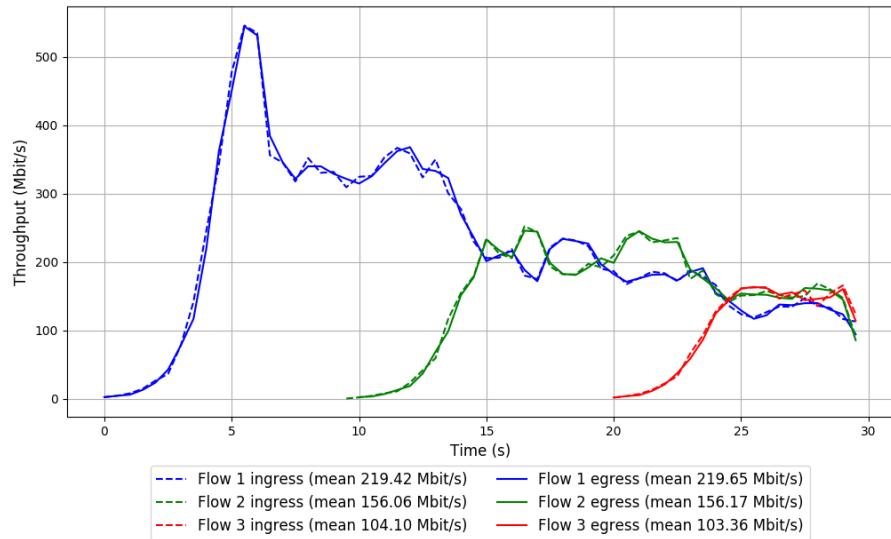
```
Run 9: Statistics of CalibratedKoho
```

```
Start at: 2017-09-08 05:57:42
```

```
End at: 2017-09-08 05:58:12
```

```
# Below is generated by plot.py at 2017-09-08 09:47:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 357.03 Mbit/s
95th percentile per-packet one-way delay: 71.657 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 219.65 Mbit/s
95th percentile per-packet one-way delay: 72.004 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 156.17 Mbit/s
95th percentile per-packet one-way delay: 69.808 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 103.36 Mbit/s
95th percentile per-packet one-way delay: 75.058 ms
Loss rate: 1.84%
```

Run 9: Report of CalibratedKoho — Data Link



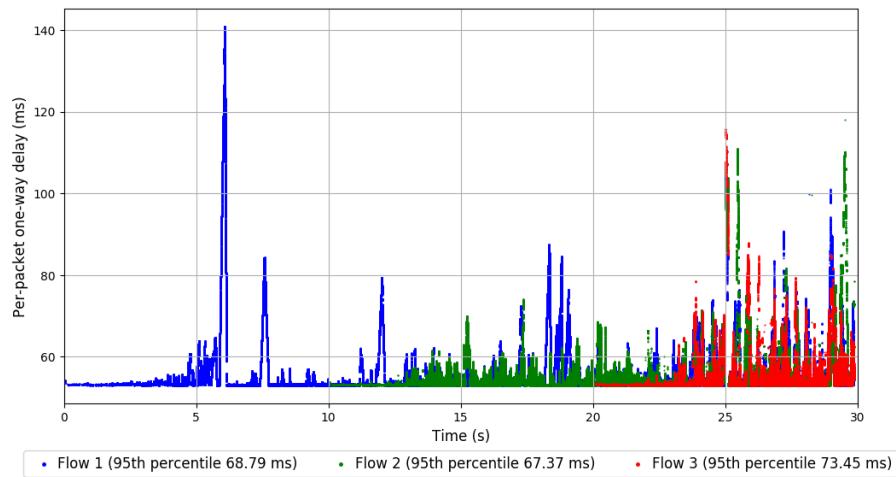
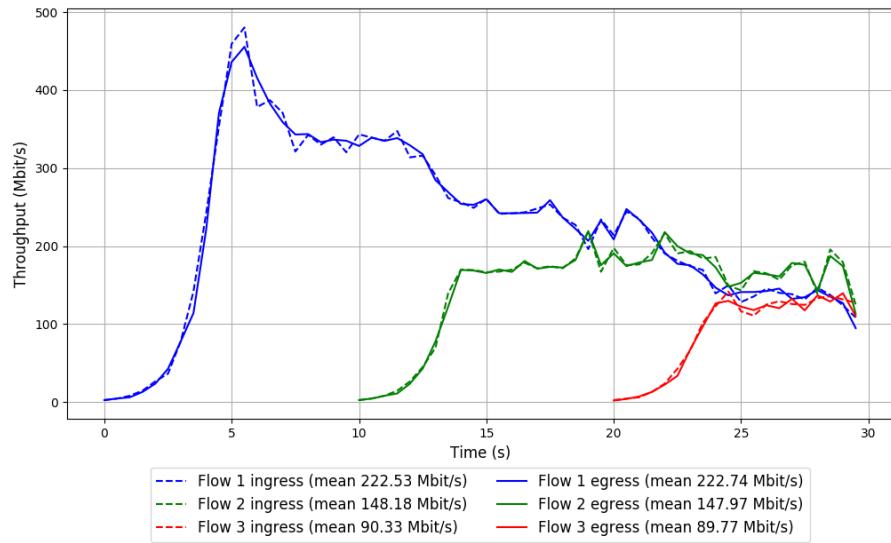
```
Run 10: Statistics of CalibratedKoho
```

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

```
End at: 2017-09-08 06:10:38
```

```
# Below is generated by plot.py at 2017-09-08 09:47:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 350.43 Mbit/s
95th percentile per-packet one-way delay: 68.805 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 222.74 Mbit/s
95th percentile per-packet one-way delay: 68.787 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 147.97 Mbit/s
95th percentile per-packet one-way delay: 67.369 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 89.77 Mbit/s
95th percentile per-packet one-way delay: 73.452 ms
Loss rate: 1.78%
```

Run 10: Report of CalibratedKoho — Data Link



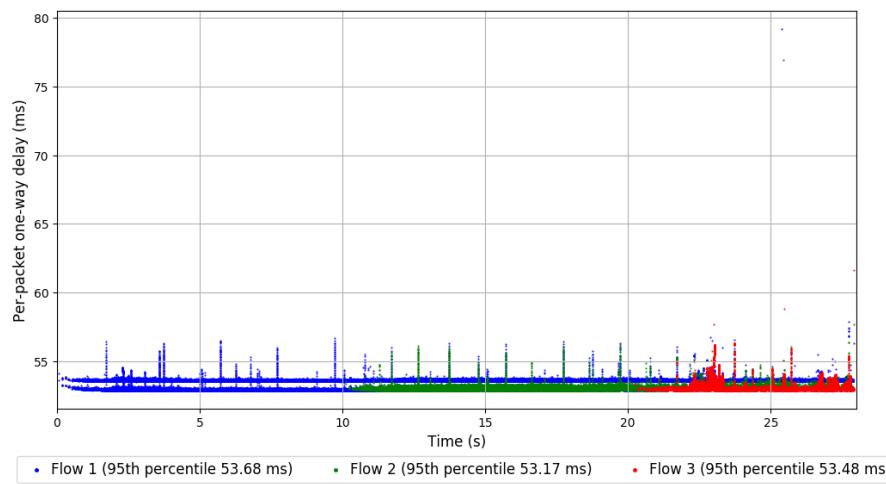
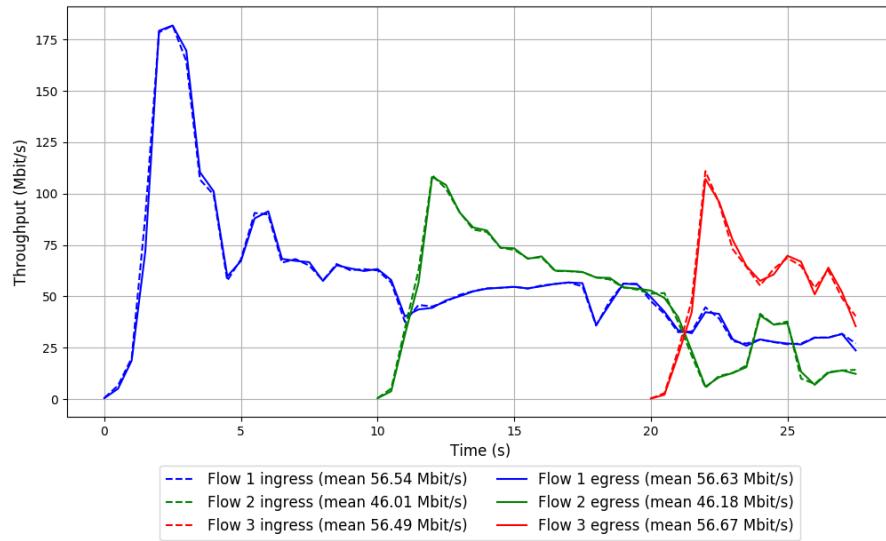
```
Run 1: Statistics of Copa
```

```
Start at: 2017-09-08 04:15:12
```

```
End at: 2017-09-08 04:15:42
```

```
# Below is generated by plot.py at 2017-09-08 09:48:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 101.72 Mbit/s
95th percentile per-packet one-way delay: 53.661 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 56.63 Mbit/s
95th percentile per-packet one-way delay: 53.678 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 46.18 Mbit/s
95th percentile per-packet one-way delay: 53.173 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 56.67 Mbit/s
95th percentile per-packet one-way delay: 53.476 ms
Loss rate: 0.98%
```

Run 1: Report of Copa — Data Link



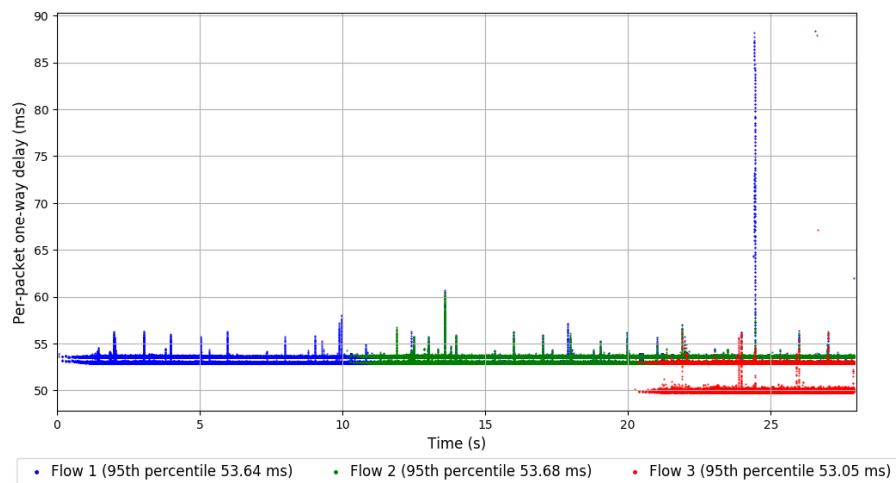
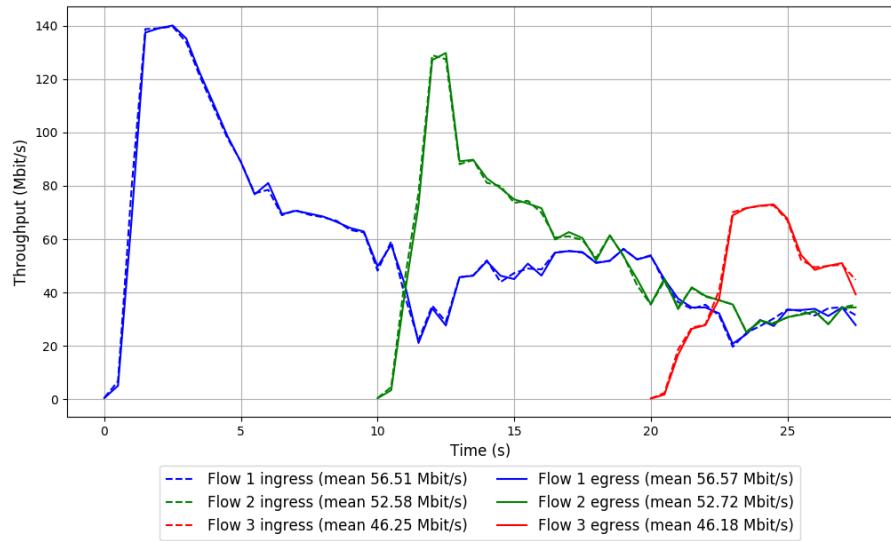
Run 2: Statistics of Copa

Start at: 2017-09-08 04:27:44

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

```
# Below is generated by plot.py at 2017-09-08 09:48:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 102.87 Mbit/s
95th percentile per-packet one-way delay: 53.654 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 56.57 Mbit/s
95th percentile per-packet one-way delay: 53.640 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 52.72 Mbit/s
95th percentile per-packet one-way delay: 53.677 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 46.18 Mbit/s
95th percentile per-packet one-way delay: 53.050 ms
Loss rate: 1.46%
```

Run 2: Report of Copa — Data Link



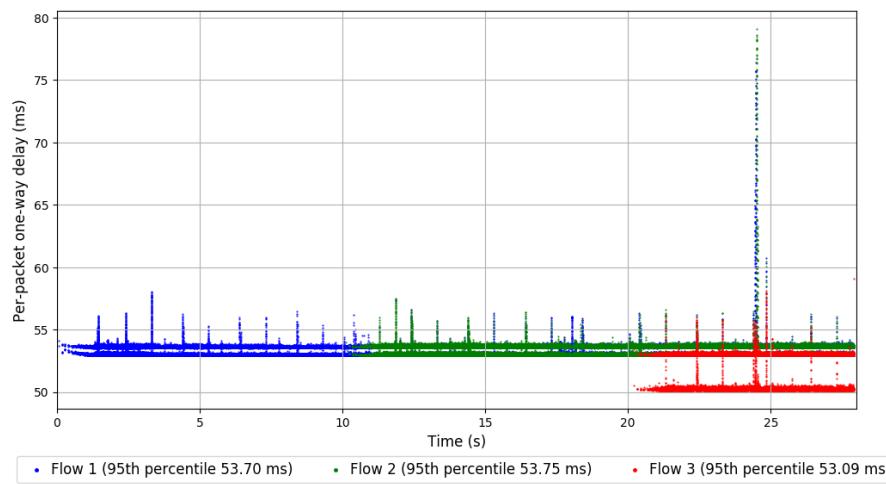
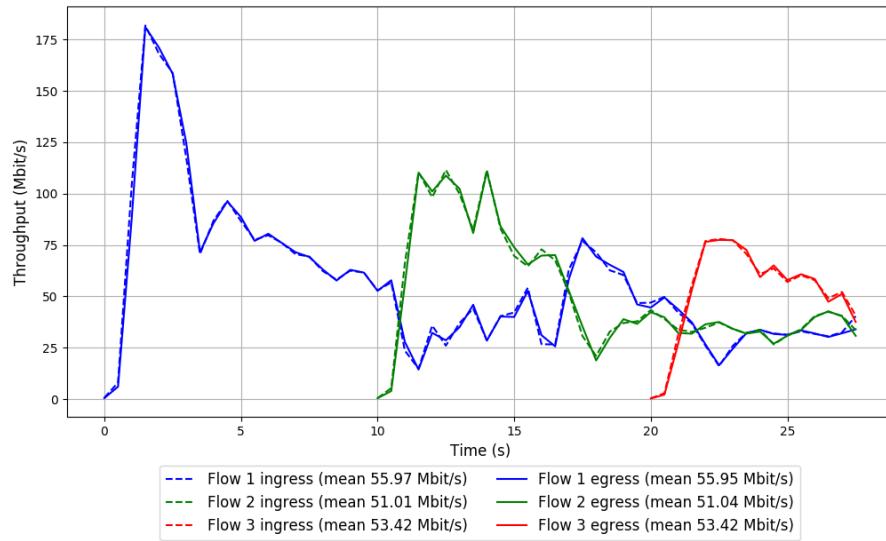
Run 3: Statistics of Copa

Start at: 2017-09-08 04:40:05

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

```
# Below is generated by plot.py at 2017-09-08 09:49:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 103.31 Mbit/s
95th percentile per-packet one-way delay: 53.715 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 55.95 Mbit/s
95th percentile per-packet one-way delay: 53.704 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 51.04 Mbit/s
95th percentile per-packet one-way delay: 53.749 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 53.42 Mbit/s
95th percentile per-packet one-way delay: 53.093 ms
Loss rate: 1.22%
```

Run 3: Report of Copa — Data Link



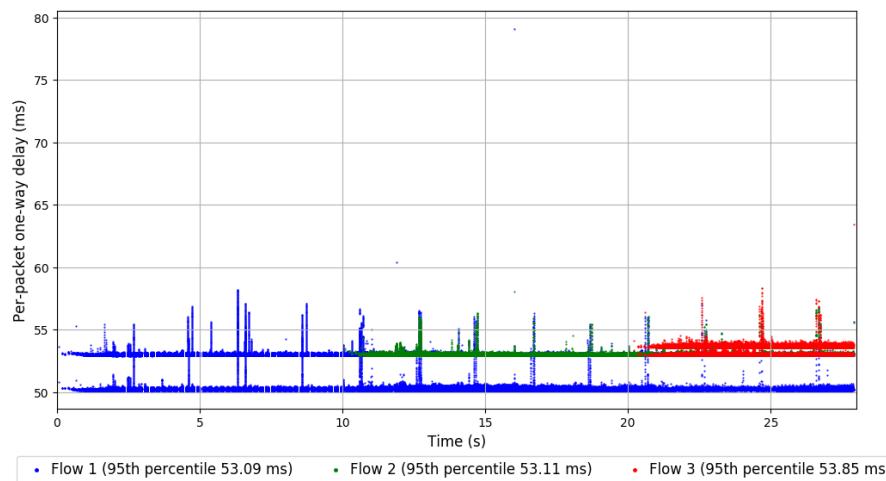
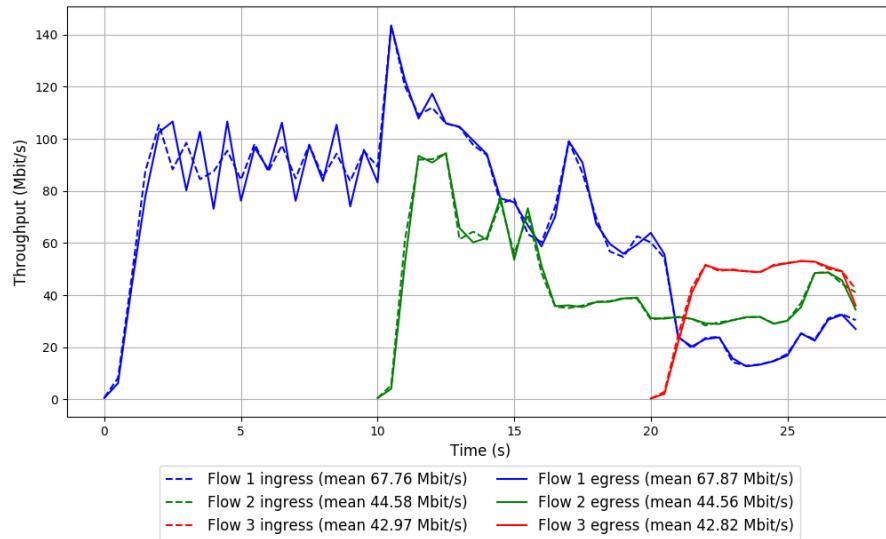
Run 4: Statistics of Copa

Start at: 2017-09-08 04:52:27

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

```
# Below is generated by plot.py at 2017-09-08 09:49:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 108.18 Mbit/s
95th percentile per-packet one-way delay: 53.612 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 67.87 Mbit/s
95th percentile per-packet one-way delay: 53.091 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 44.56 Mbit/s
95th percentile per-packet one-way delay: 53.112 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 42.82 Mbit/s
95th percentile per-packet one-way delay: 53.847 ms
Loss rate: 1.66%
```

Run 4: Report of Copa — Data Link



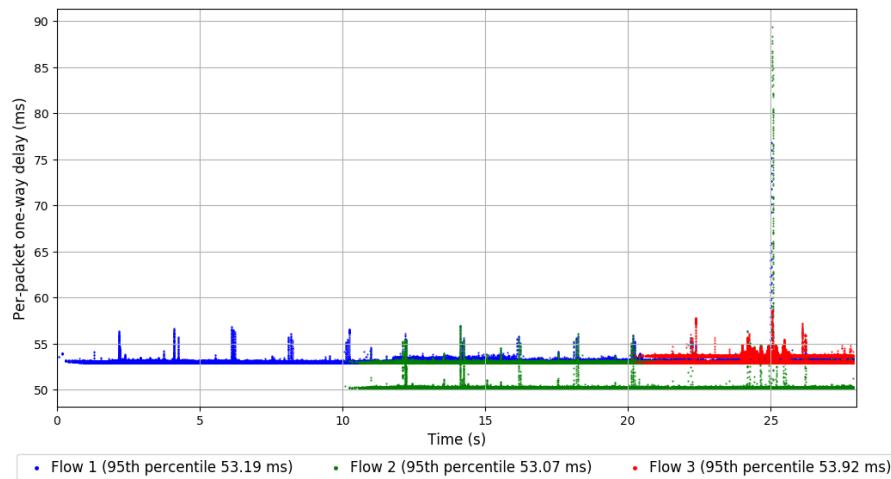
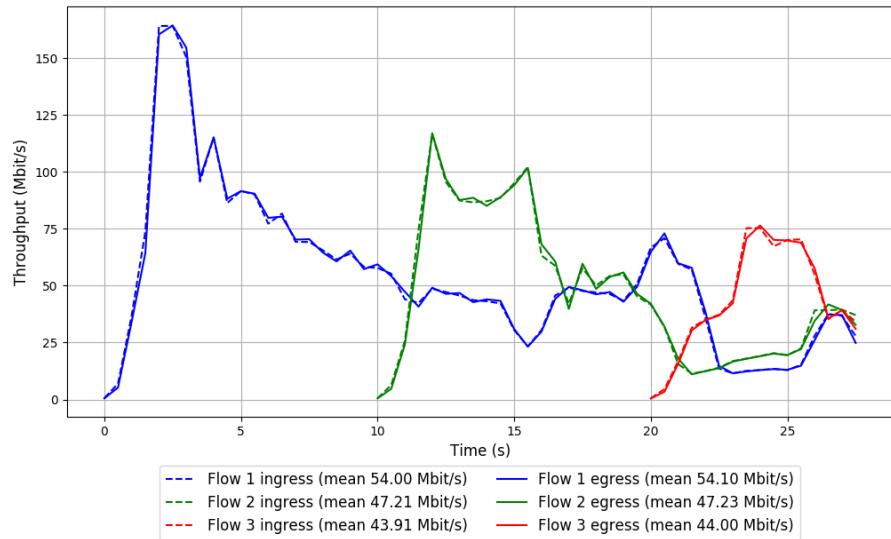
Run 5: Statistics of Copa

Start at: 2017-09-08 05:04:47

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

```
# Below is generated by plot.py at 2017-09-08 09:49:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.55 Mbit/s
95th percentile per-packet one-way delay: 53.638 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 54.10 Mbit/s
95th percentile per-packet one-way delay: 53.185 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 47.23 Mbit/s
95th percentile per-packet one-way delay: 53.066 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 44.00 Mbit/s
95th percentile per-packet one-way delay: 53.924 ms
Loss rate: 1.14%
```

Run 5: Report of Copa — Data Link



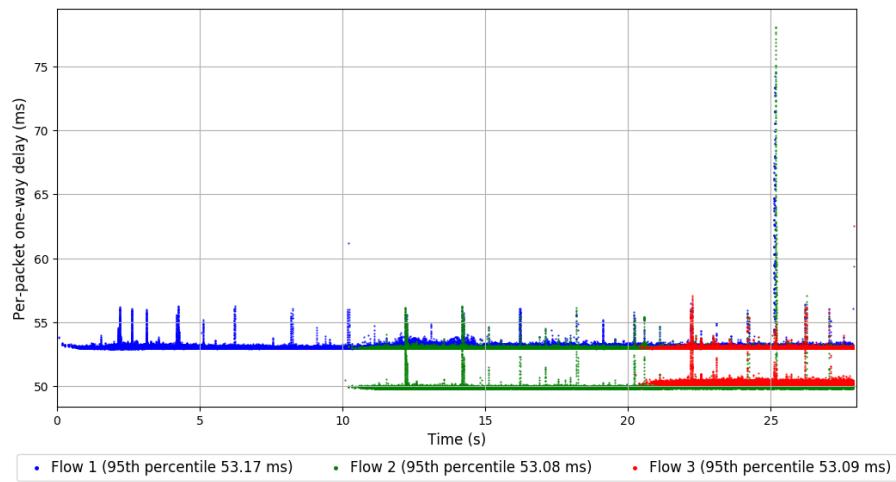
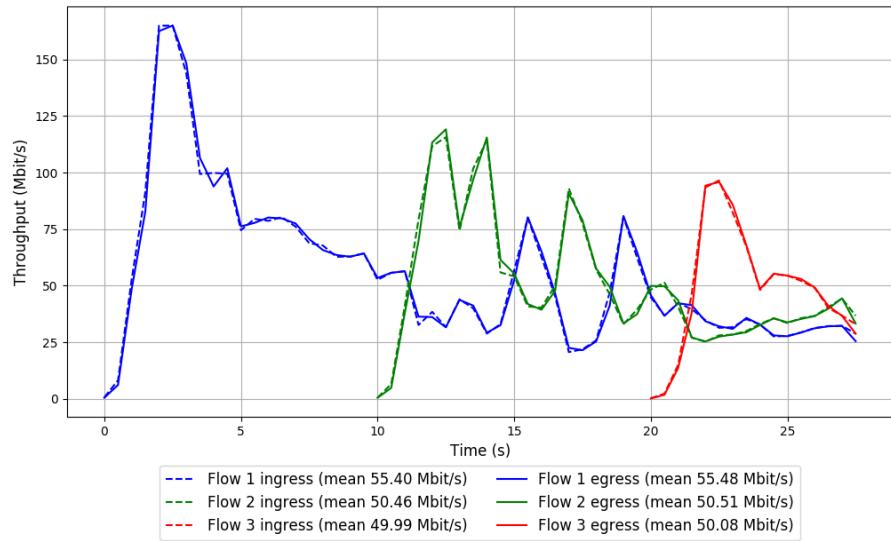
Run 6: Statistics of Copa

Start at: 2017-09-08 05:16:57

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

```
# Below is generated by plot.py at 2017-09-08 09:49:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 101.50 Mbit/s
95th percentile per-packet one-way delay: 53.134 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 55.48 Mbit/s
95th percentile per-packet one-way delay: 53.169 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 50.51 Mbit/s
95th percentile per-packet one-way delay: 53.075 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 50.08 Mbit/s
95th percentile per-packet one-way delay: 53.092 ms
Loss rate: 1.04%
```

Run 6: Report of Copa — Data Link



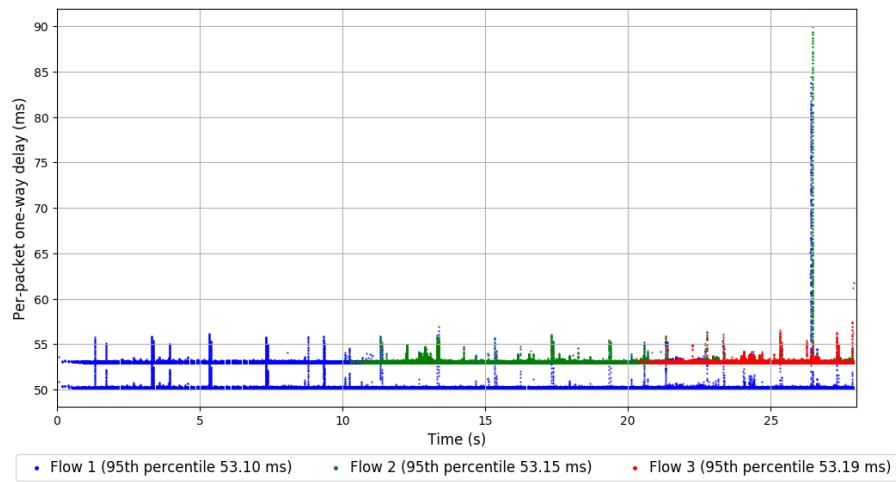
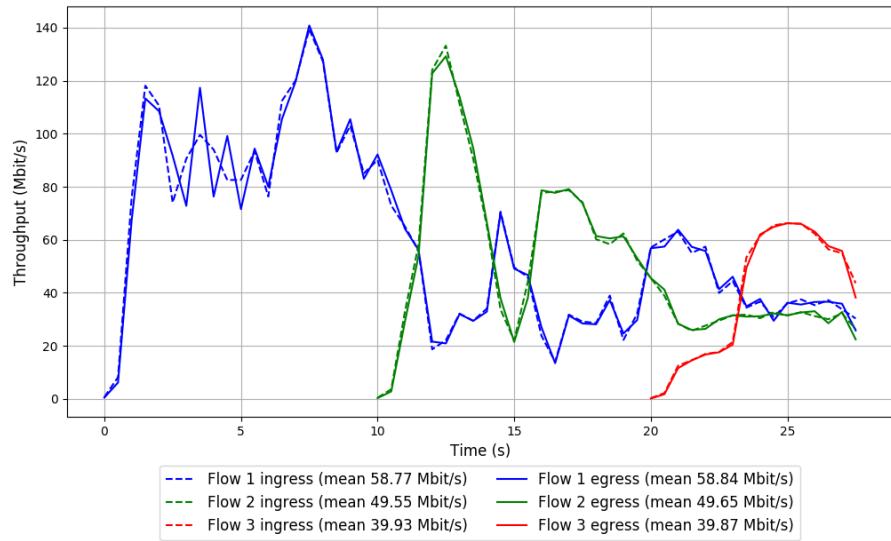
Run 7: Statistics of Copa

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

End at: 2017-09-08 05:29:48

```
# Below is generated by plot.py at 2017-09-08 09:50:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 101.35 Mbit/s
95th percentile per-packet one-way delay: 53.128 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 58.84 Mbit/s
95th percentile per-packet one-way delay: 53.104 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 49.65 Mbit/s
95th percentile per-packet one-way delay: 53.149 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 39.87 Mbit/s
95th percentile per-packet one-way delay: 53.188 ms
Loss rate: 1.56%
```

Run 7: Report of Copa — Data Link



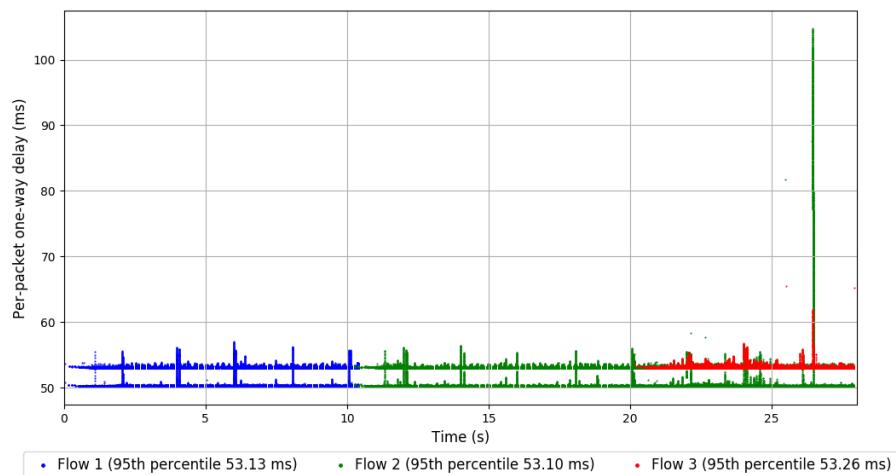
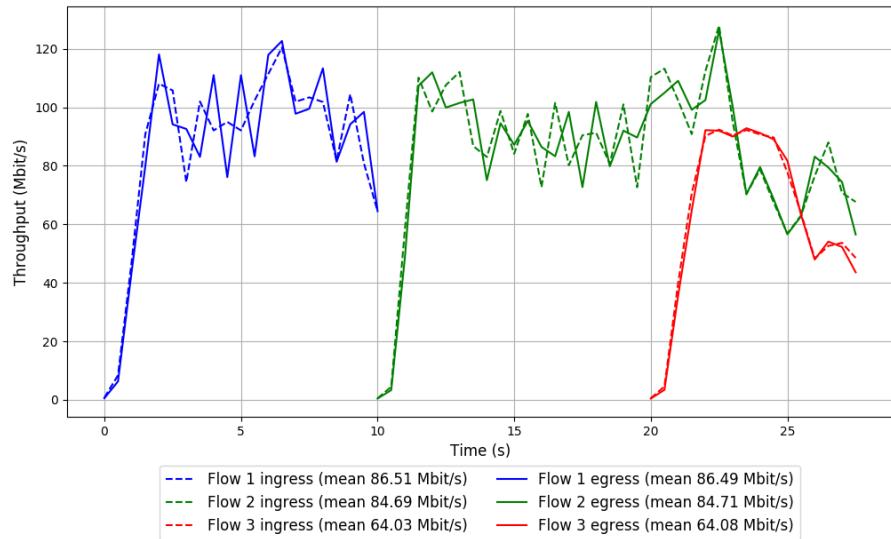
Run 8: Statistics of Copa

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

End at: 2017-09-08 05:42:15

```
# Below is generated by plot.py at 2017-09-08 09:50:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 103.92 Mbit/s
95th percentile per-packet one-way delay: 53.122 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 86.49 Mbit/s
95th percentile per-packet one-way delay: 53.128 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 84.71 Mbit/s
95th percentile per-packet one-way delay: 53.101 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 64.08 Mbit/s
95th percentile per-packet one-way delay: 53.257 ms
Loss rate: 1.13%
```

Run 8: Report of Copa — Data Link



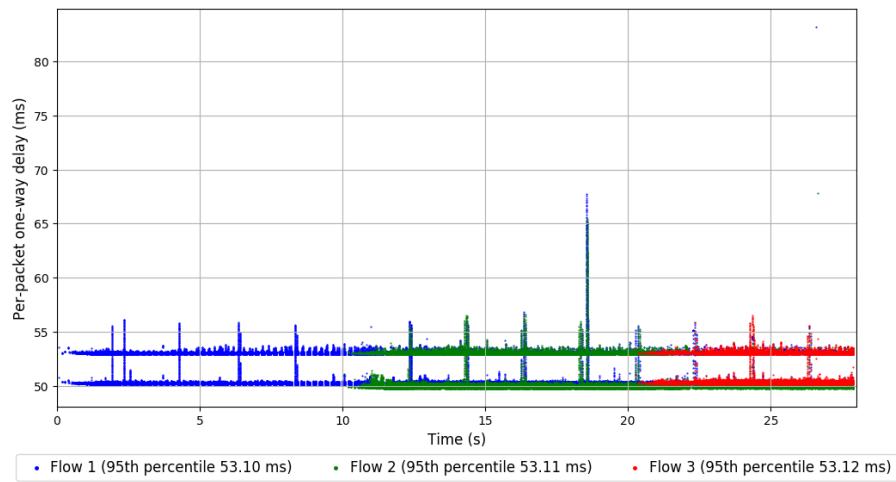
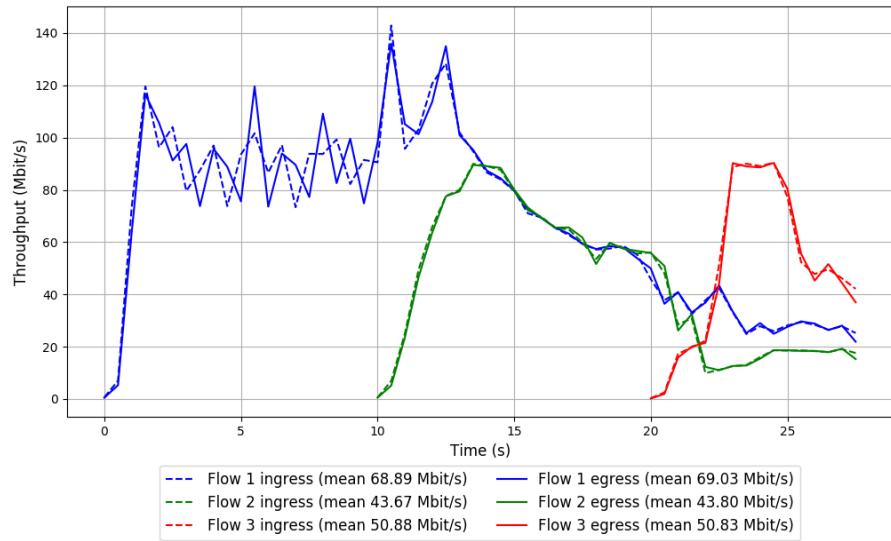
Run 9: Statistics of Copa

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 09:50:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 110.98 Mbit/s
95th percentile per-packet one-way delay: 53.106 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 69.03 Mbit/s
95th percentile per-packet one-way delay: 53.103 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 43.80 Mbit/s
95th percentile per-packet one-way delay: 53.107 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 50.83 Mbit/s
95th percentile per-packet one-way delay: 53.117 ms
Loss rate: 1.41%
```

Run 9: Report of Copa — Data Link



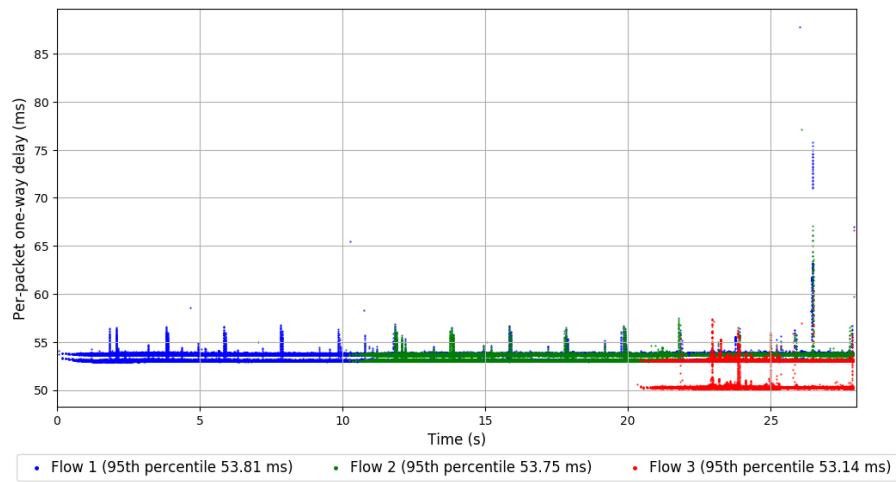
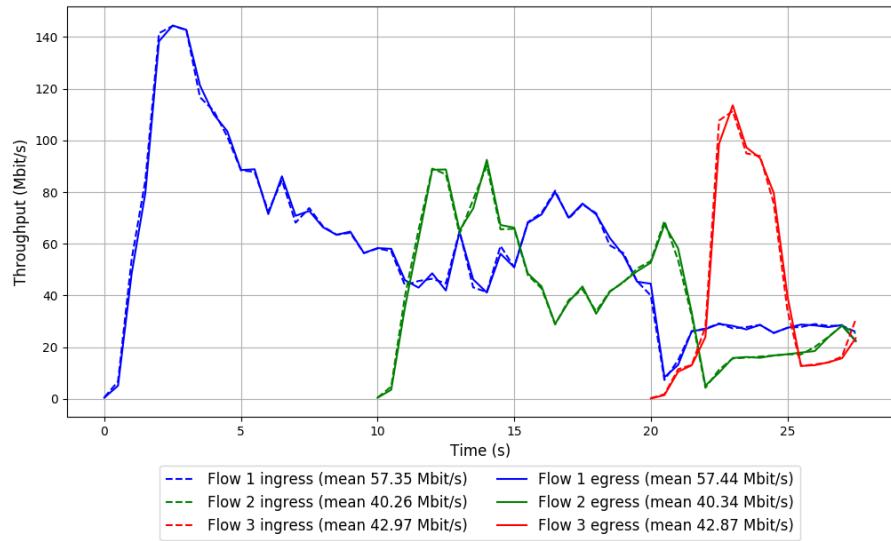
Run 10: Statistics of Copa

Start at: 2017-09-08 06:06:18

End at: 2017-09-08 06:06:48

```
# Below is generated by plot.py at 2017-09-08 09:50:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.88 Mbit/s
95th percentile per-packet one-way delay: 53.791 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 57.44 Mbit/s
95th percentile per-packet one-way delay: 53.807 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 40.34 Mbit/s
95th percentile per-packet one-way delay: 53.750 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 42.87 Mbit/s
95th percentile per-packet one-way delay: 53.139 ms
Loss rate: 1.41%
```

Run 10: Report of Copa — Data Link

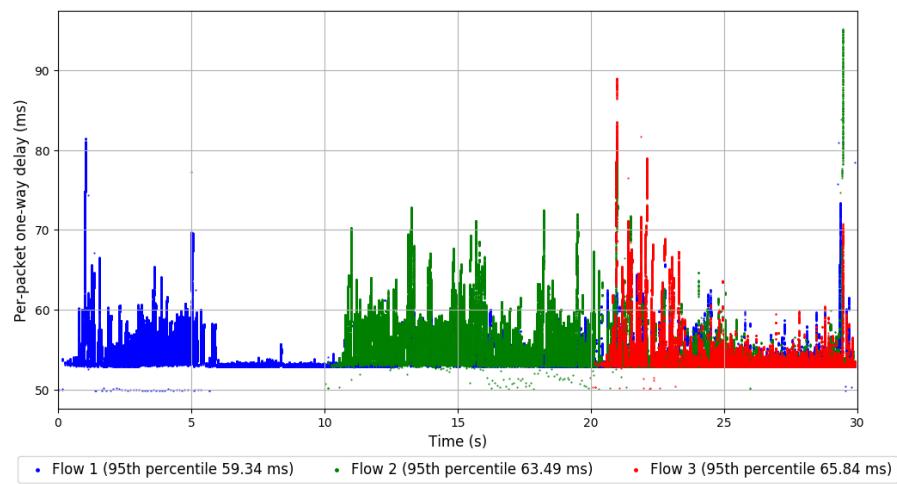
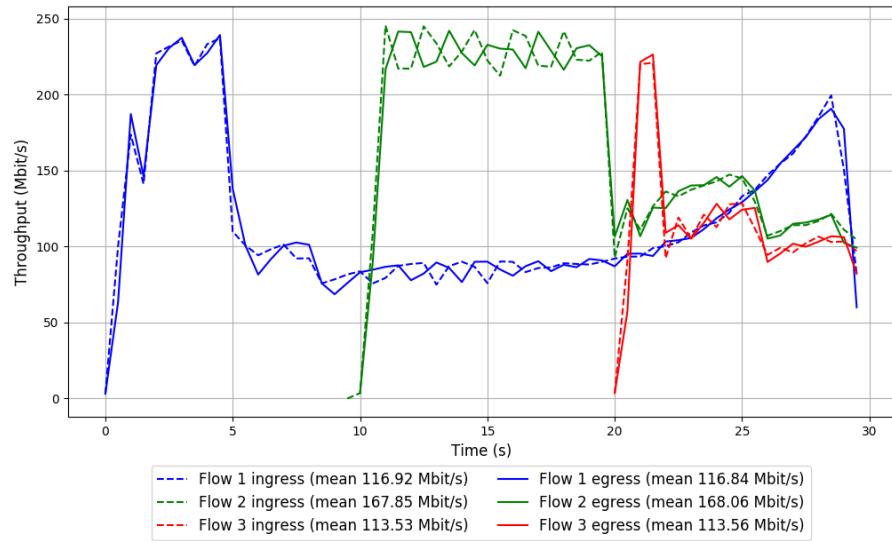


```
Run 1: Statistics of TCP Cubic

Start at: 2017-09-08 04:20:13
End at: 2017-09-08 04:20:43

# Below is generated by plot.py at 2017-09-08 09:51:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 265.91 Mbit/s
95th percentile per-packet one-way delay: 62.283 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 116.84 Mbit/s
95th percentile per-packet one-way delay: 59.338 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 168.06 Mbit/s
95th percentile per-packet one-way delay: 63.494 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 113.56 Mbit/s
95th percentile per-packet one-way delay: 65.839 ms
Loss rate: 0.99%
```

Run 1: Report of TCP Cubic — Data Link



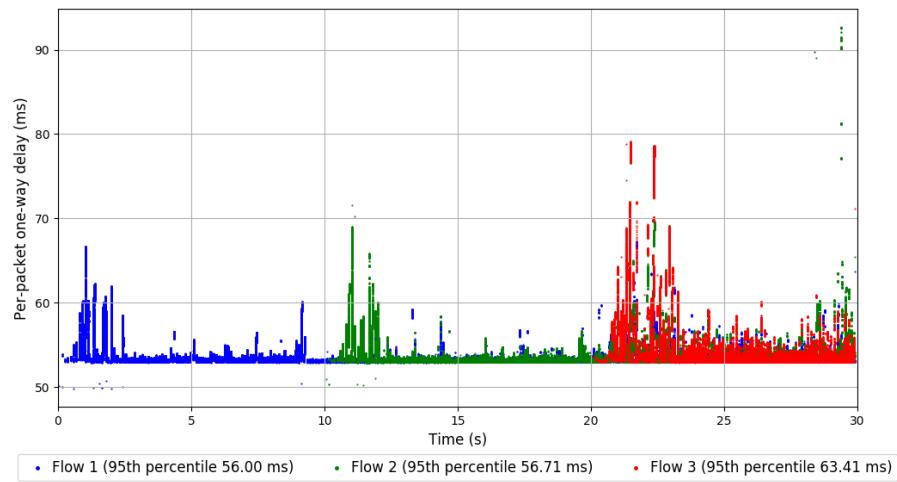
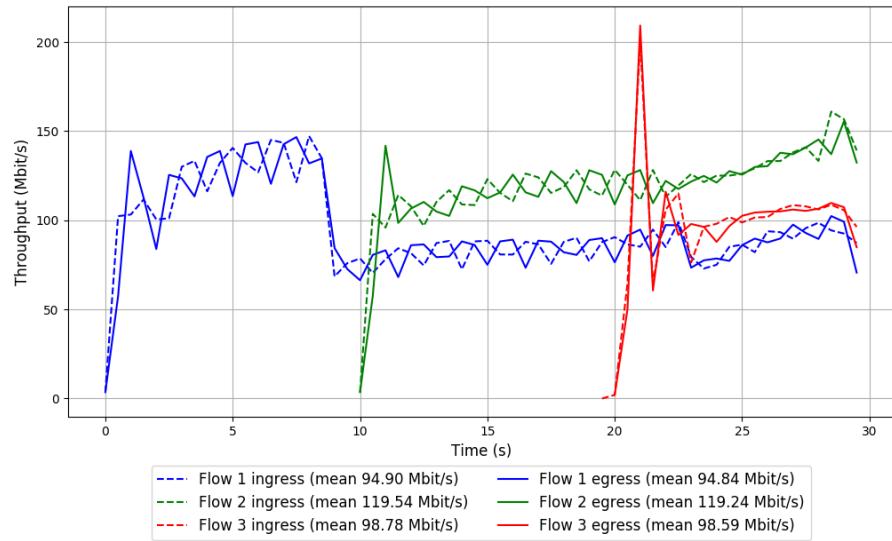
Run 2: Statistics of TCP Cubic

Start at: 2017-09-08 04:32:41

End at: 2017-09-08 04:33:11

```
# Below is generated by plot.py at 2017-09-08 09:51:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 206.64 Mbit/s
95th percentile per-packet one-way delay: 57.516 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 94.84 Mbit/s
95th percentile per-packet one-way delay: 55.996 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 119.24 Mbit/s
95th percentile per-packet one-way delay: 56.708 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 98.59 Mbit/s
95th percentile per-packet one-way delay: 63.408 ms
Loss rate: 1.13%
```

Run 2: Report of TCP Cubic — Data Link

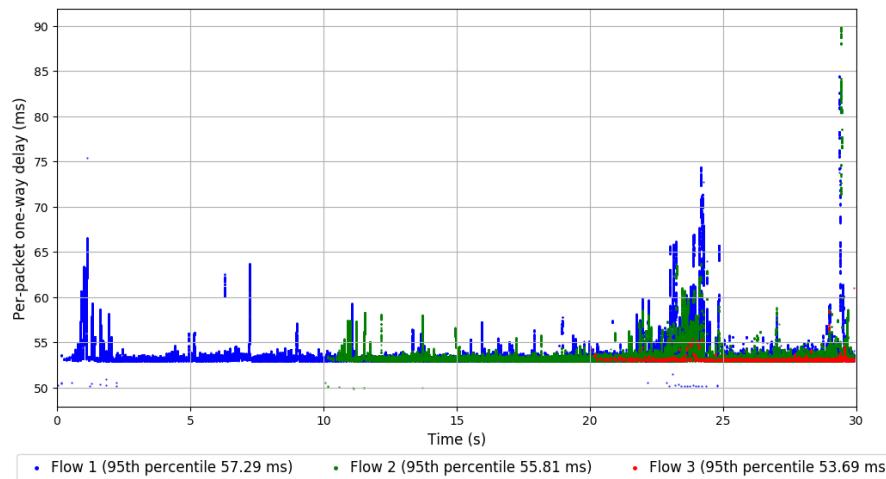
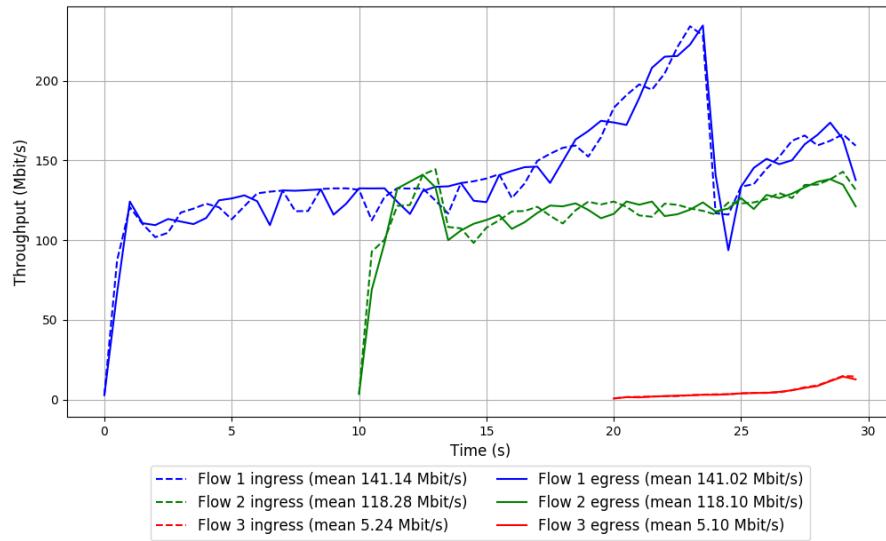


```
Run 3: Statistics of TCP Cubic

Start at: 2017-09-08 04:45:03
End at: 2017-09-08 04:45:33

# Below is generated by plot.py at 2017-09-08 09:52:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 221.11 Mbit/s
95th percentile per-packet one-way delay: 56.626 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 141.02 Mbit/s
95th percentile per-packet one-way delay: 57.287 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 118.10 Mbit/s
95th percentile per-packet one-way delay: 55.812 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 5.10 Mbit/s
95th percentile per-packet one-way delay: 53.688 ms
Loss rate: 3.68%
```

Run 3: Report of TCP Cubic — Data Link



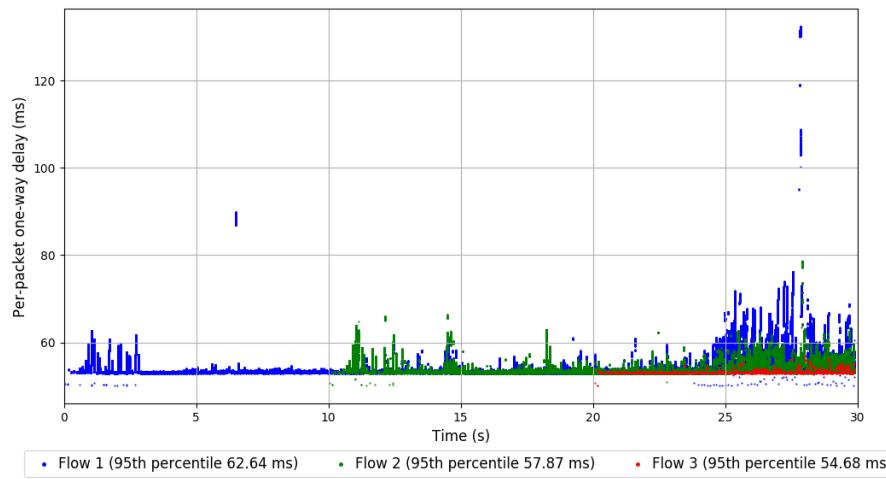
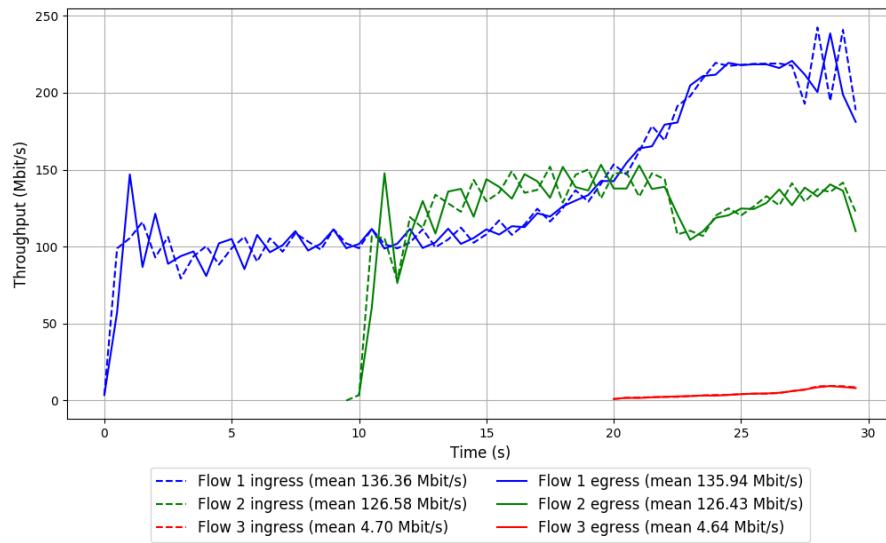
Run 4: Statistics of TCP Cubic

Start at: 2017-09-08 04:57:20

End at: 2017-09-08 04:57:50

```
# Below is generated by plot.py at 2017-09-08 09:52:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 221.58 Mbit/s
95th percentile per-packet one-way delay: 60.622 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 135.94 Mbit/s
95th percentile per-packet one-way delay: 62.639 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 126.43 Mbit/s
95th percentile per-packet one-way delay: 57.870 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 4.64 Mbit/s
95th percentile per-packet one-way delay: 54.676 ms
Loss rate: 2.27%
```

Run 4: Report of TCP Cubic — Data Link

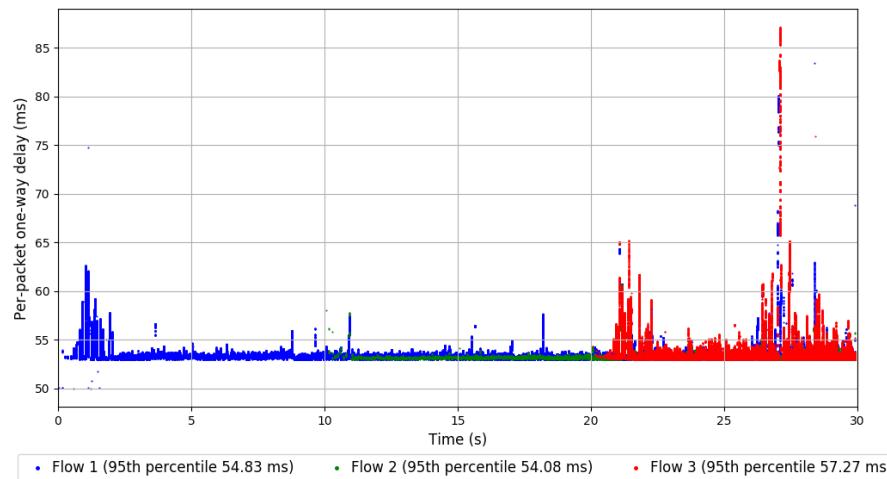
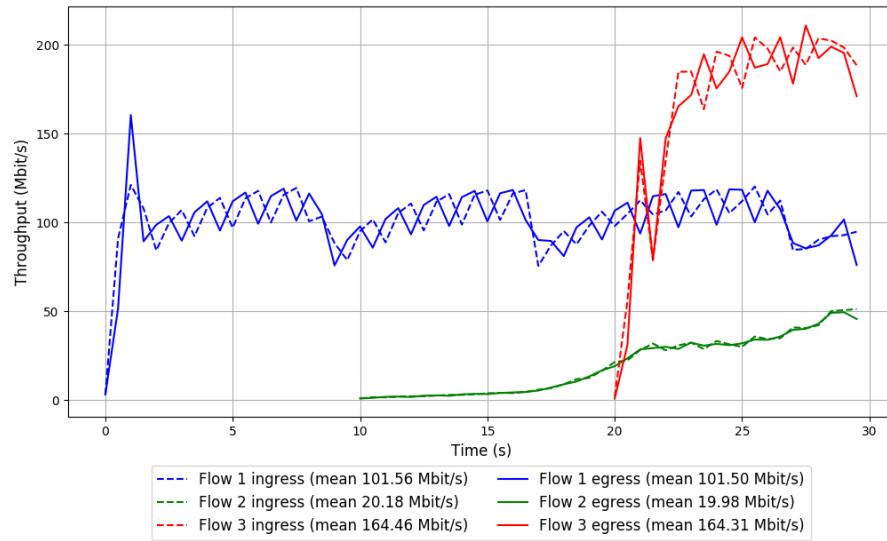


```
Run 5: Statistics of TCP Cubic

Start at: 2017-09-08 05:09:48
End at: 2017-09-08 05:10:18

# Below is generated by plot.py at 2017-09-08 09:52:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 168.86 Mbit/s
95th percentile per-packet one-way delay: 55.592 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 101.50 Mbit/s
95th percentile per-packet one-way delay: 54.830 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 19.98 Mbit/s
95th percentile per-packet one-way delay: 54.077 ms
Loss rate: 1.53%
-- Flow 3:
Average throughput: 164.31 Mbit/s
95th percentile per-packet one-way delay: 57.273 ms
Loss rate: 1.31%
```

Run 5: Report of TCP Cubic — Data Link



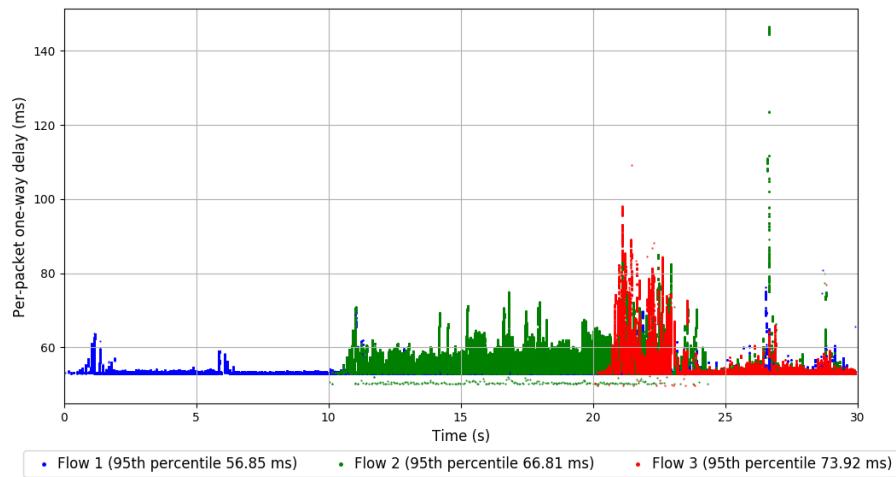
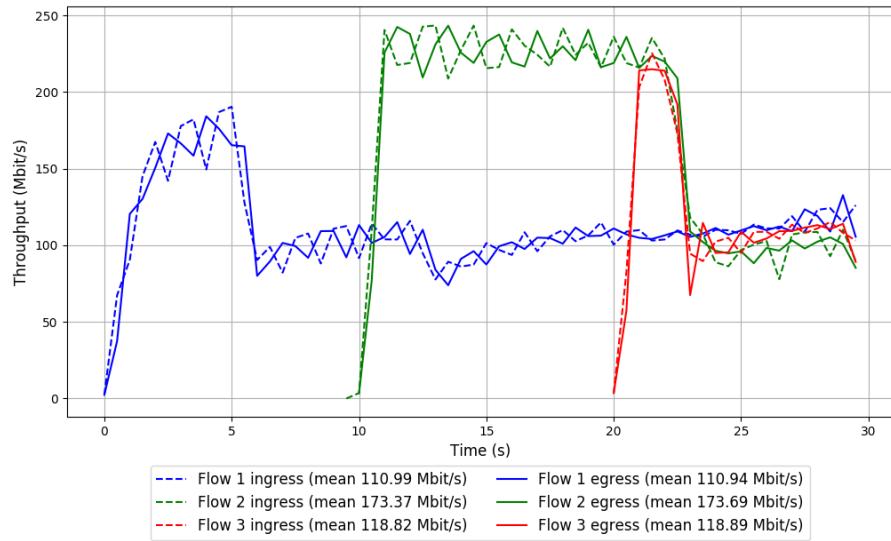
Run 6: Statistics of TCP Cubic

Start at: 2017-09-08 05:21:54

End at: 2017-09-08 05:22:24

```
# Below is generated by plot.py at 2017-09-08 09:53:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 265.50 Mbit/s
95th percentile per-packet one-way delay: 65.470 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 110.94 Mbit/s
95th percentile per-packet one-way delay: 56.848 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 173.69 Mbit/s
95th percentile per-packet one-way delay: 66.813 ms
Loss rate: 0.32%
-- Flow 3:
Average throughput: 118.89 Mbit/s
95th percentile per-packet one-way delay: 73.916 ms
Loss rate: 0.96%
```

Run 6: Report of TCP Cubic — Data Link

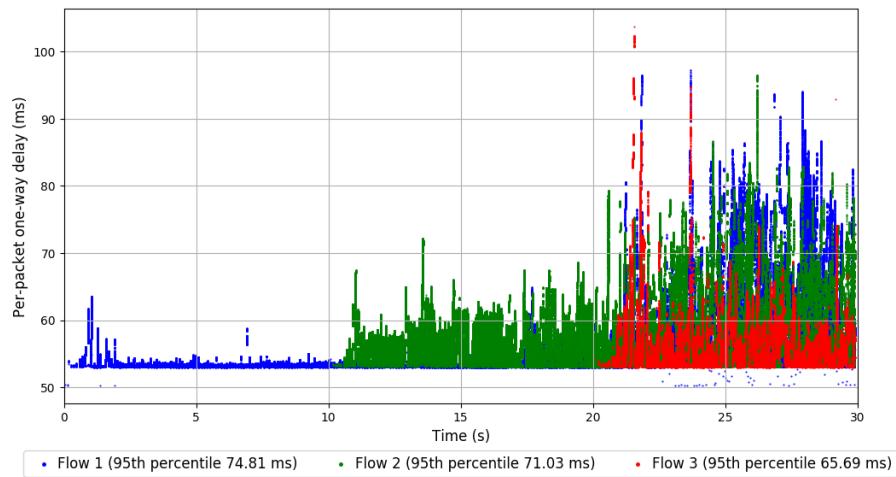
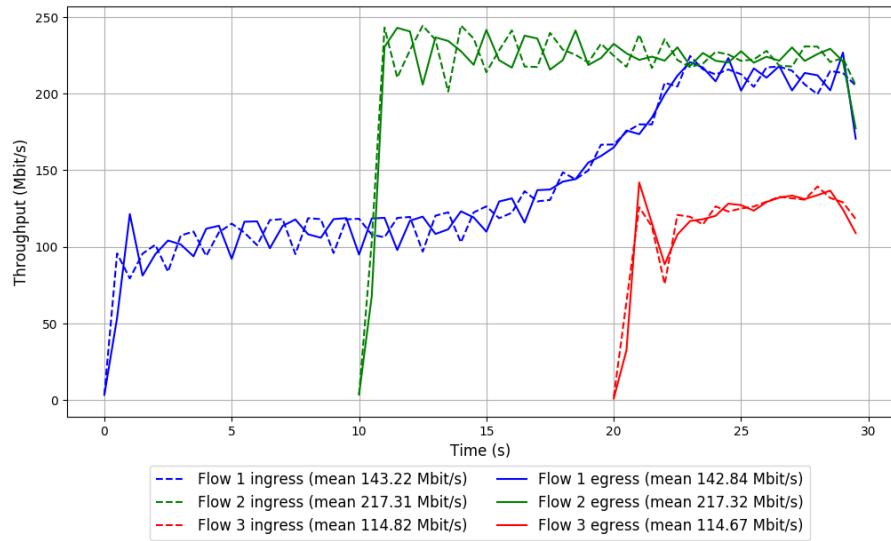


```
Run 7: Statistics of TCP Cubic

Start at: 2017-09-08 05:34:23
End at: 2017-09-08 05:34:53

# Below is generated by plot.py at 2017-09-08 09:53:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 324.95 Mbit/s
95th percentile per-packet one-way delay: 72.285 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 142.84 Mbit/s
95th percentile per-packet one-way delay: 74.812 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 217.32 Mbit/s
95th percentile per-packet one-way delay: 71.027 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 114.67 Mbit/s
95th percentile per-packet one-way delay: 65.691 ms
Loss rate: 1.25%
```

Run 7: Report of TCP Cubic — Data Link



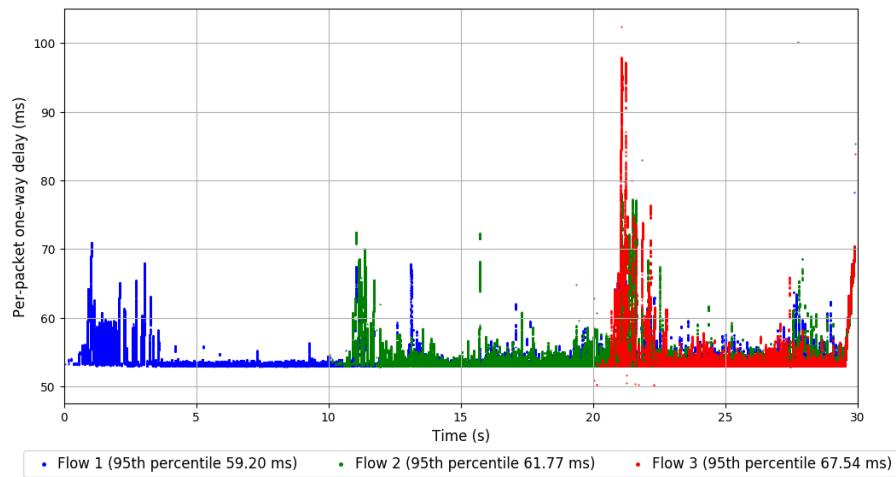
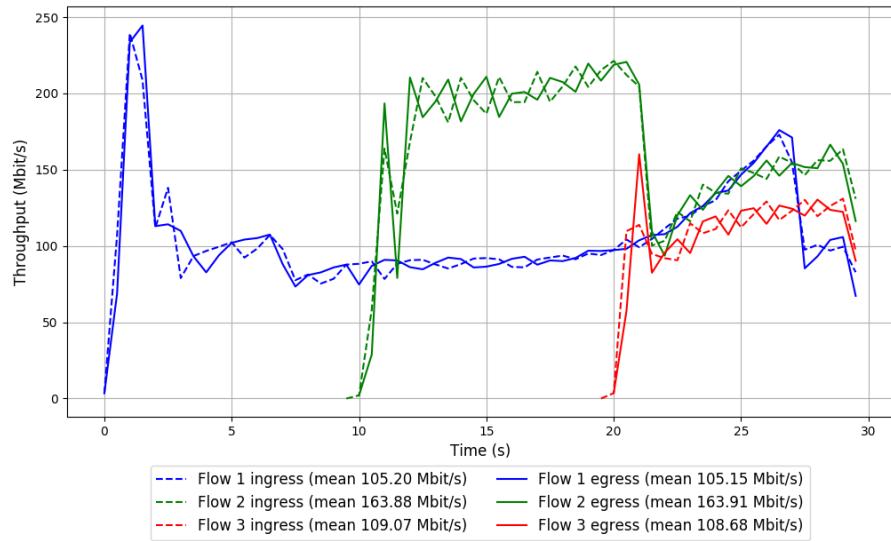
Run 8: Statistics of TCP Cubic

Start at: 2017-09-08 05:46:32

End at: 2017-09-08 05:47:02

```
# Below is generated by plot.py at 2017-09-08 09:54:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 250.07 Mbit/s
95th percentile per-packet one-way delay: 61.194 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 105.15 Mbit/s
95th percentile per-packet one-way delay: 59.205 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 163.91 Mbit/s
95th percentile per-packet one-way delay: 61.771 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 108.68 Mbit/s
95th percentile per-packet one-way delay: 67.541 ms
Loss rate: 1.24%
```

Run 8: Report of TCP Cubic — Data Link



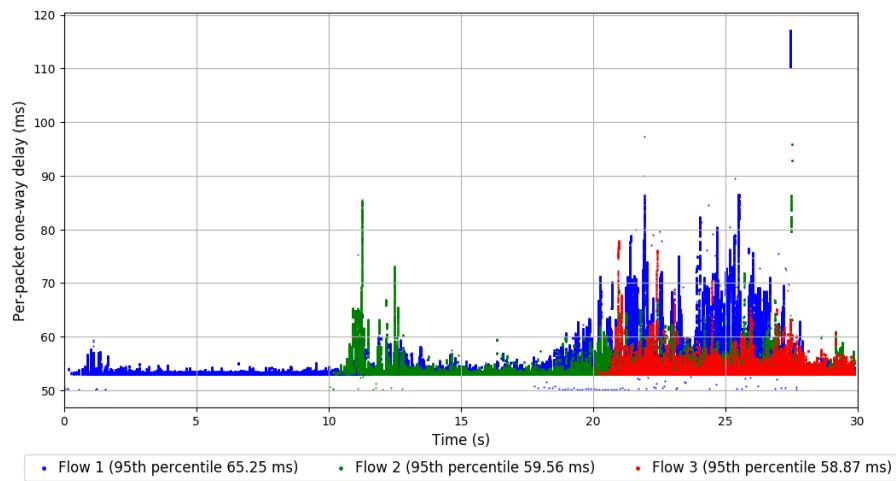
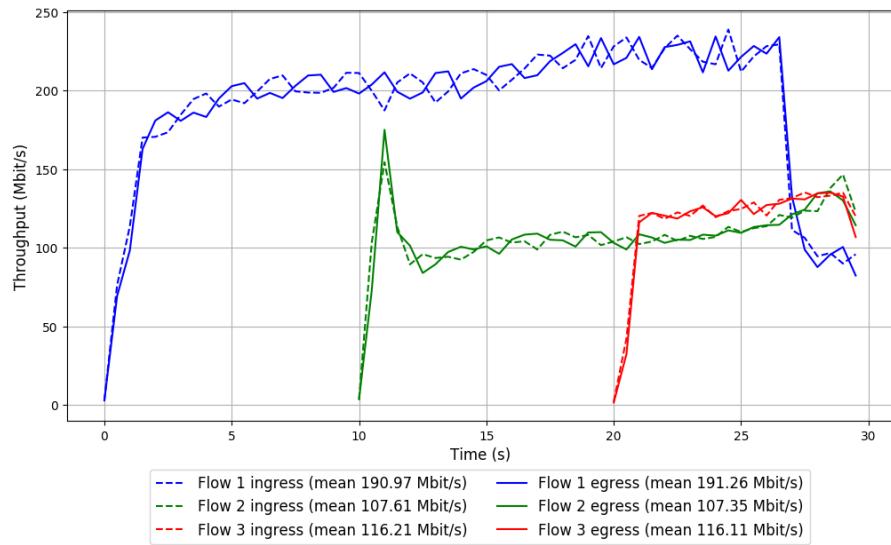
```
Run 9: Statistics of TCP Cubic
```

```
Start at: 2017-09-08 05:58:47
```

```
End at: 2017-09-08 05:59:17
```

```
# Below is generated by plot.py at 2017-09-08 09:54:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 300.69 Mbit/s
95th percentile per-packet one-way delay: 63.118 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 191.26 Mbit/s
95th percentile per-packet one-way delay: 65.246 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 107.35 Mbit/s
95th percentile per-packet one-way delay: 59.561 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 116.11 Mbit/s
95th percentile per-packet one-way delay: 58.873 ms
Loss rate: 1.25%
```

Run 9: Report of TCP Cubic — Data Link



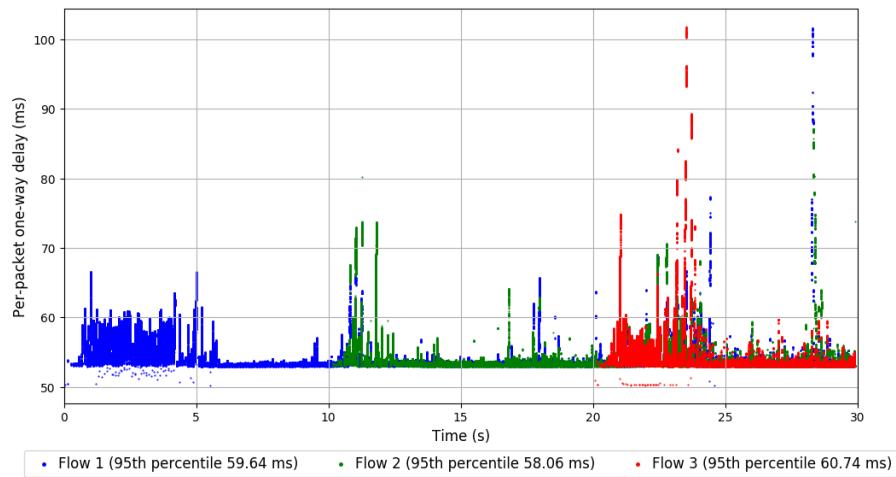
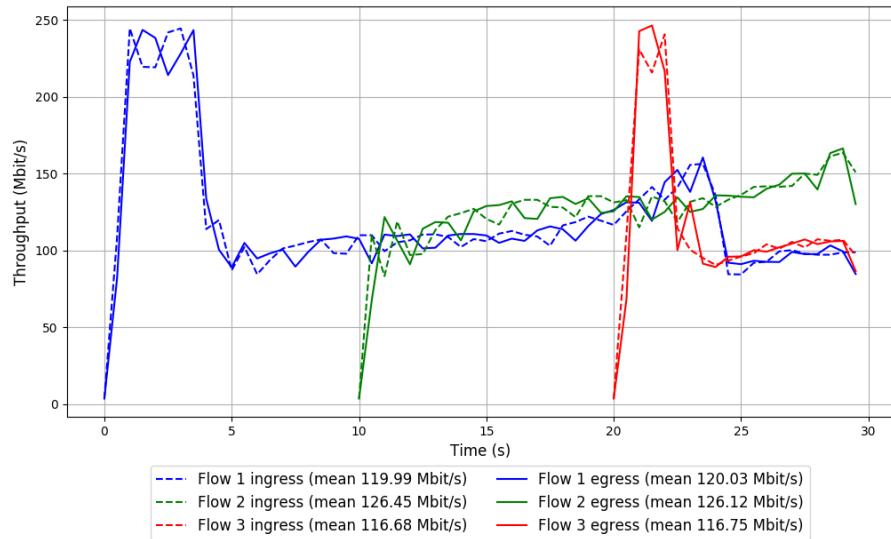
```
Run 10: Statistics of TCP Cubic
```

```
Start at: 2017-09-08 06:11:14
```

```
End at: 2017-09-08 06:11:44
```

```
# Below is generated by plot.py at 2017-09-08 09:54:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 242.24 Mbit/s
95th percentile per-packet one-way delay: 59.437 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 120.03 Mbit/s
95th percentile per-packet one-way delay: 59.637 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 126.12 Mbit/s
95th percentile per-packet one-way delay: 58.064 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 116.75 Mbit/s
95th percentile per-packet one-way delay: 60.745 ms
Loss rate: 0.95%
```

Run 10: Report of TCP Cubic — Data Link



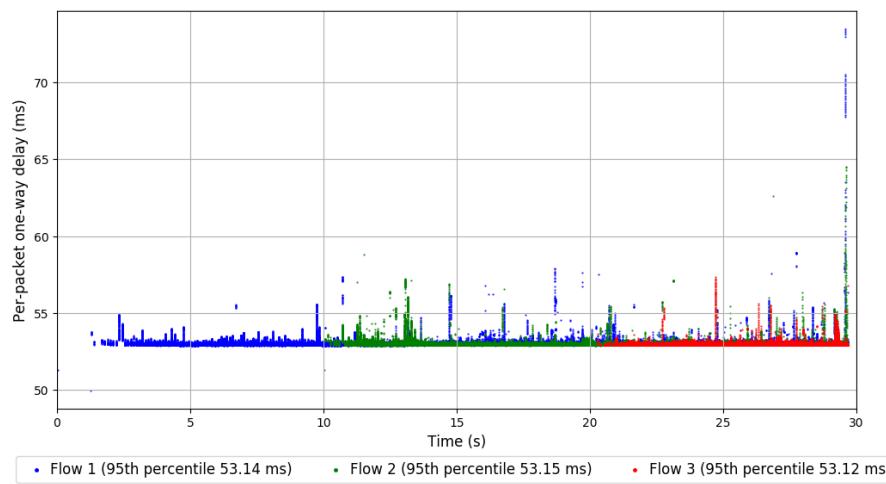
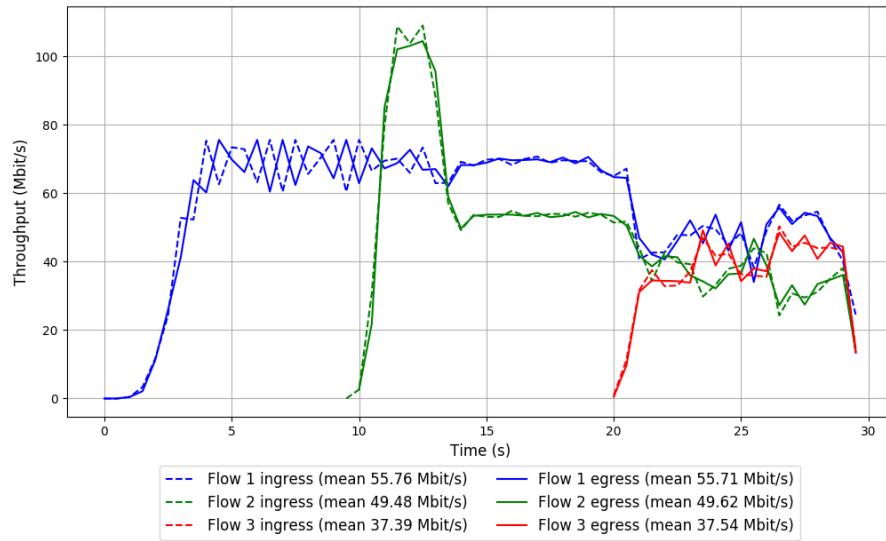
Run 1: Statistics of Indigo

Start at: 2017-09-08 04:13:45

End at: 2017-09-08 04:14:15

```
# Below is generated by plot.py at 2017-09-08 09:55:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 100.46 Mbit/s
95th percentile per-packet one-way delay: 53.139 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 55.71 Mbit/s
95th percentile per-packet one-way delay: 53.138 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 49.62 Mbit/s
95th percentile per-packet one-way delay: 53.151 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 37.54 Mbit/s
95th percentile per-packet one-way delay: 53.115 ms
Loss rate: 0.71%
```

Run 1: Report of Indigo — Data Link



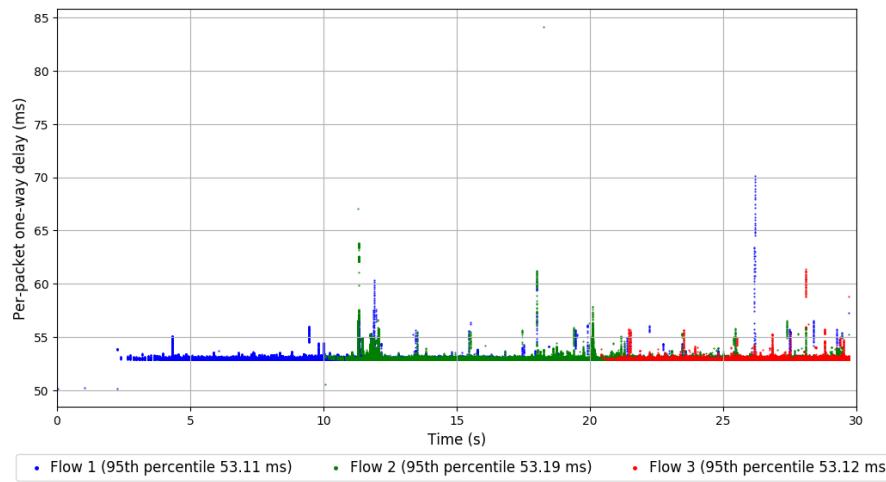
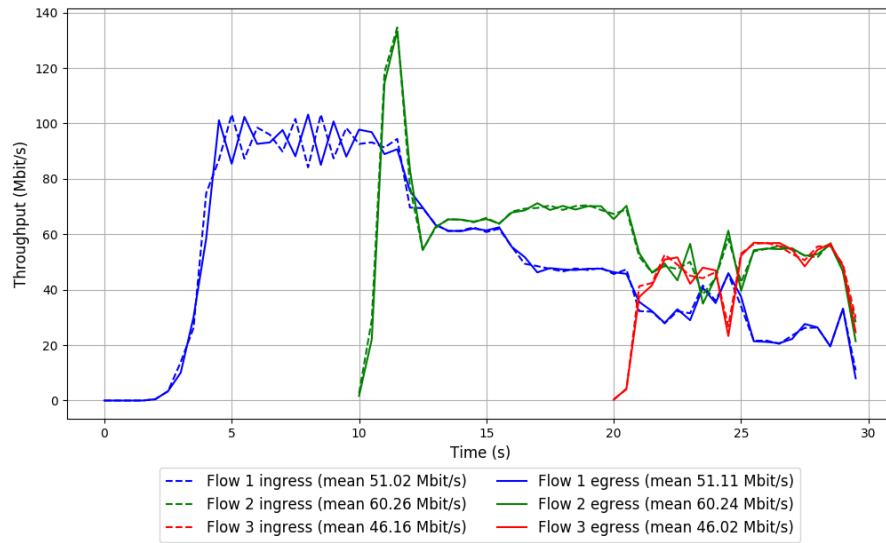
Run 2: Statistics of Indigo

Start at: 2017-09-08 04:26:16

End at: 2017-09-08 04:26:46

```
# Below is generated by plot.py at 2017-09-08 09:55:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 105.41 Mbit/s
95th percentile per-packet one-way delay: 53.137 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 51.11 Mbit/s
95th percentile per-packet one-way delay: 53.113 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 60.24 Mbit/s
95th percentile per-packet one-way delay: 53.187 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 46.02 Mbit/s
95th percentile per-packet one-way delay: 53.118 ms
Loss rate: 1.39%
```

Run 2: Report of Indigo — Data Link



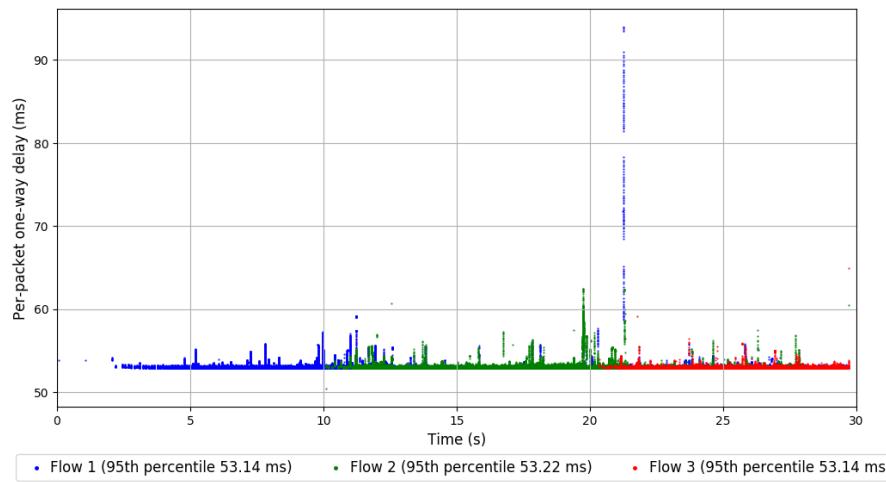
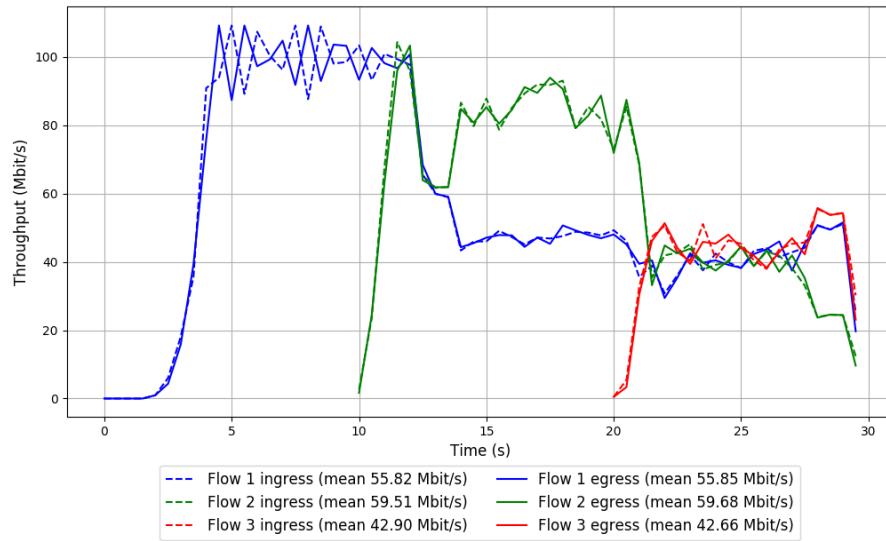
Run 3: Statistics of Indigo

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

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

```
# Below is generated by plot.py at 2017-09-08 09:55:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 108.74 Mbit/s
95th percentile per-packet one-way delay: 53.169 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 55.85 Mbit/s
95th percentile per-packet one-way delay: 53.141 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 59.68 Mbit/s
95th percentile per-packet one-way delay: 53.222 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 42.66 Mbit/s
95th percentile per-packet one-way delay: 53.140 ms
Loss rate: 1.60%
```

Run 3: Report of Indigo — Data Link



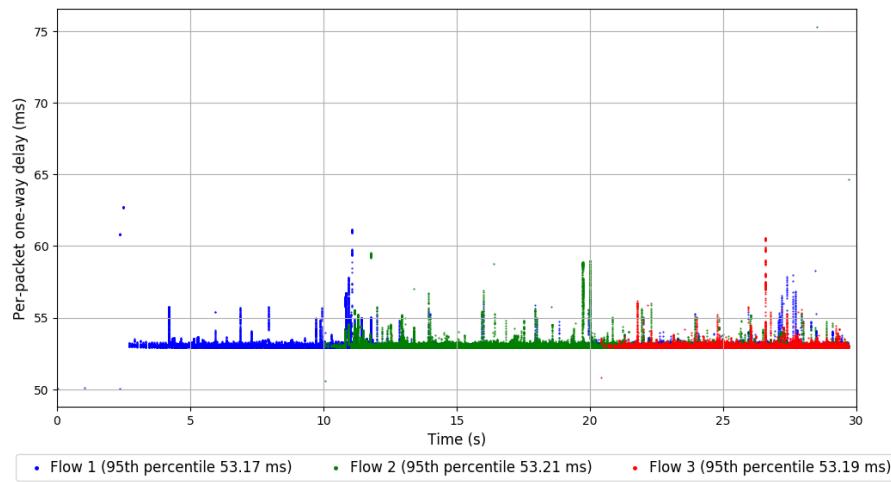
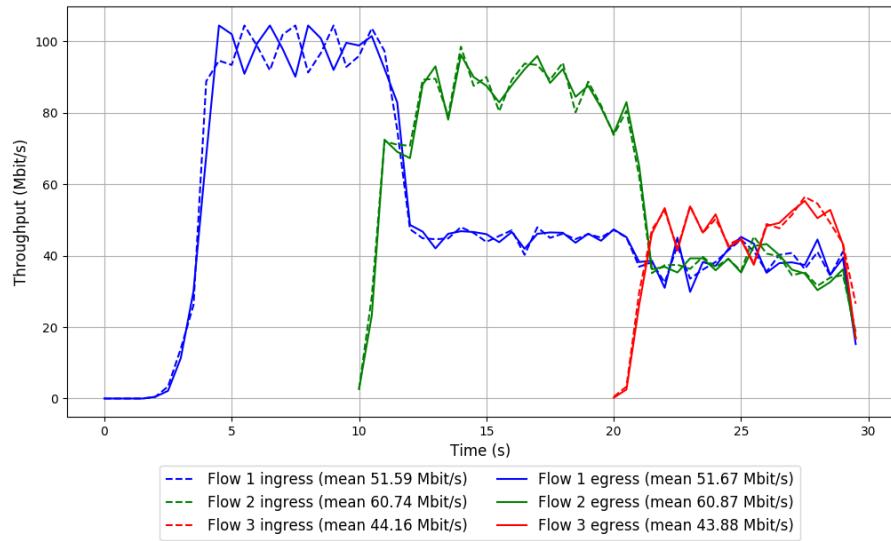
Run 4: Statistics of Indigo

Start at: 2017-09-08 04:50:59

End at: 2017-09-08 04:51:29

```
# Below is generated by plot.py at 2017-09-08 09:55:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 105.70 Mbit/s
95th percentile per-packet one-way delay: 53.188 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 51.67 Mbit/s
95th percentile per-packet one-way delay: 53.169 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 60.87 Mbit/s
95th percentile per-packet one-way delay: 53.212 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 43.88 Mbit/s
95th percentile per-packet one-way delay: 53.186 ms
Loss rate: 1.84%
```

Run 4: Report of Indigo — Data Link



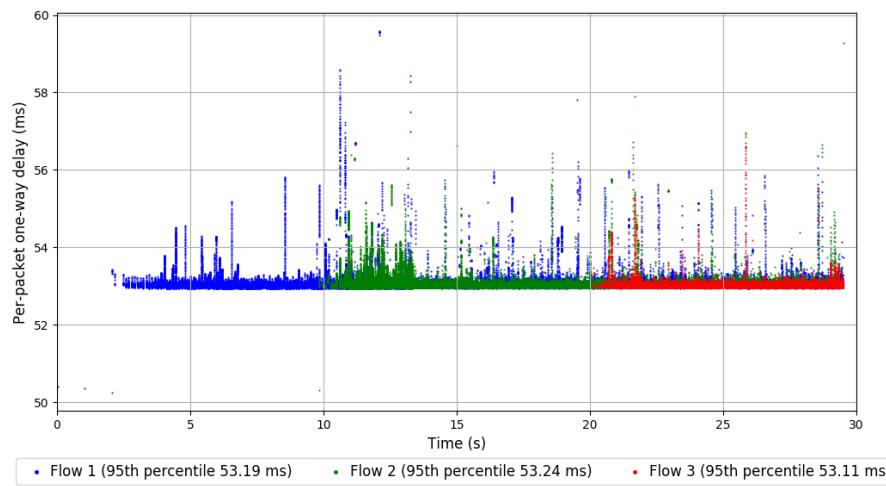
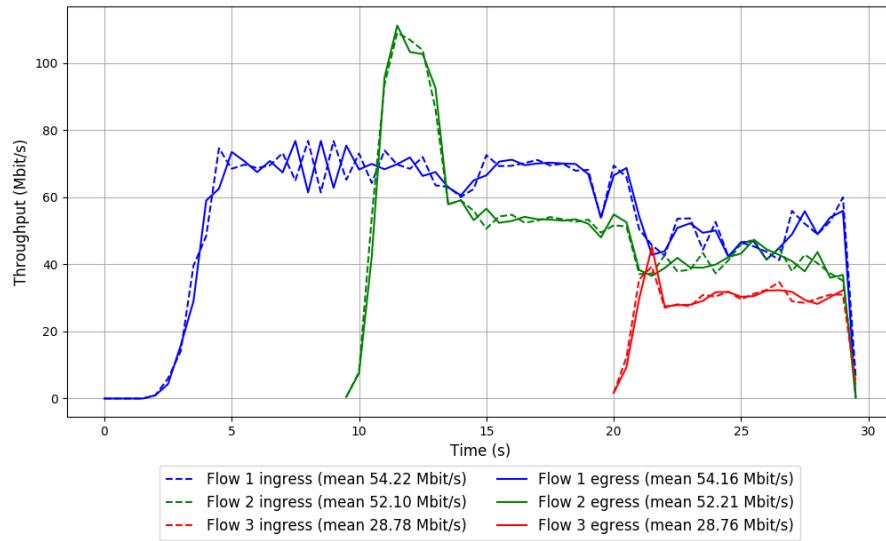
Run 5: Statistics of Indigo

Start at: 2017-09-08 05:03:21

End at: 2017-09-08 05:03:51

```
# Below is generated by plot.py at 2017-09-08 09:55:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 98.15 Mbit/s
95th percentile per-packet one-way delay: 53.194 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 54.16 Mbit/s
95th percentile per-packet one-way delay: 53.188 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 52.21 Mbit/s
95th percentile per-packet one-way delay: 53.236 ms
Loss rate: 0.32%
-- Flow 3:
Average throughput: 28.76 Mbit/s
95th percentile per-packet one-way delay: 53.112 ms
Loss rate: 1.30%
```

Run 5: Report of Indigo — Data Link



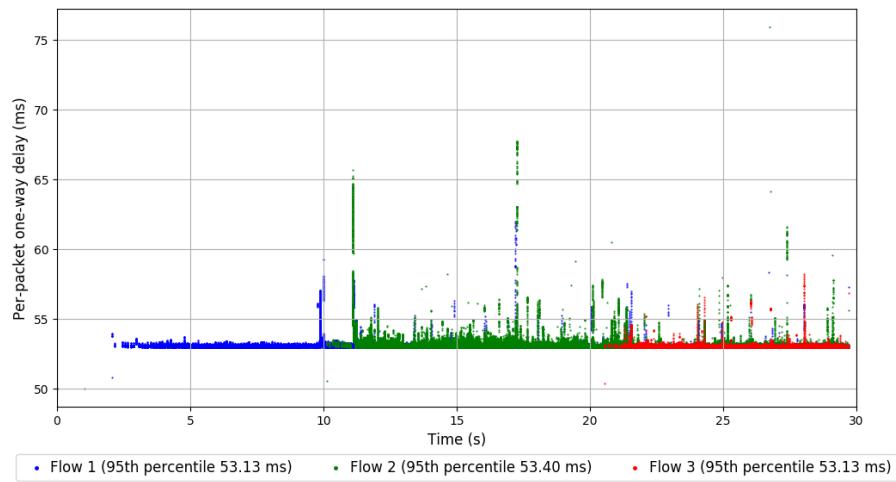
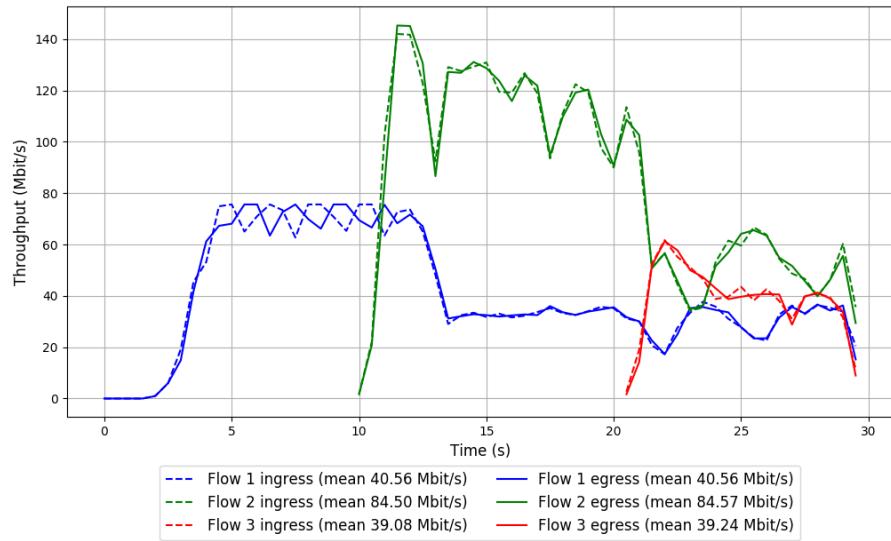
Run 6: Statistics of Indigo

Start at: 2017-09-08 05:15:29

End at: 2017-09-08 05:15:59

```
# Below is generated by plot.py at 2017-09-08 09:56:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 108.51 Mbit/s
95th percentile per-packet one-way delay: 53.264 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 40.56 Mbit/s
95th percentile per-packet one-way delay: 53.133 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 84.57 Mbit/s
95th percentile per-packet one-way delay: 53.395 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 39.24 Mbit/s
95th percentile per-packet one-way delay: 53.134 ms
Loss rate: 0.69%
```

Run 6: Report of Indigo — Data Link



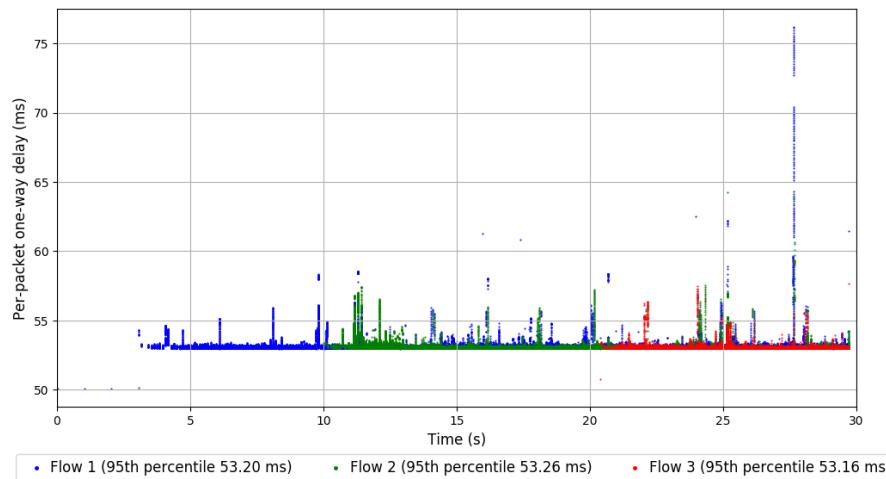
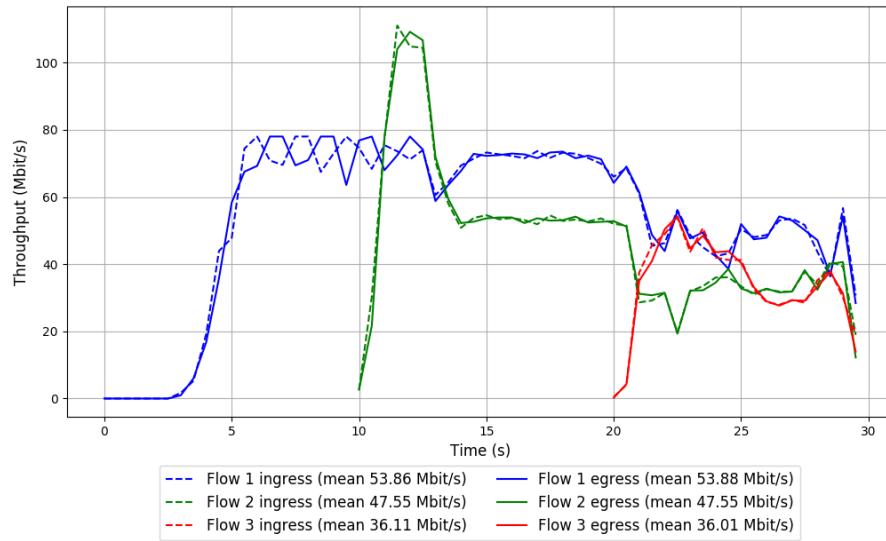
Run 7: Statistics of Indigo

Start at: 2017-09-08 05:27:51

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

```
# Below is generated by plot.py at 2017-09-08 09:56:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.67 Mbit/s
95th percentile per-packet one-way delay: 53.208 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 53.88 Mbit/s
95th percentile per-packet one-way delay: 53.201 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 47.55 Mbit/s
95th percentile per-packet one-way delay: 53.256 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 36.01 Mbit/s
95th percentile per-packet one-way delay: 53.161 ms
Loss rate: 1.23%
```

Run 7: Report of Indigo — Data Link



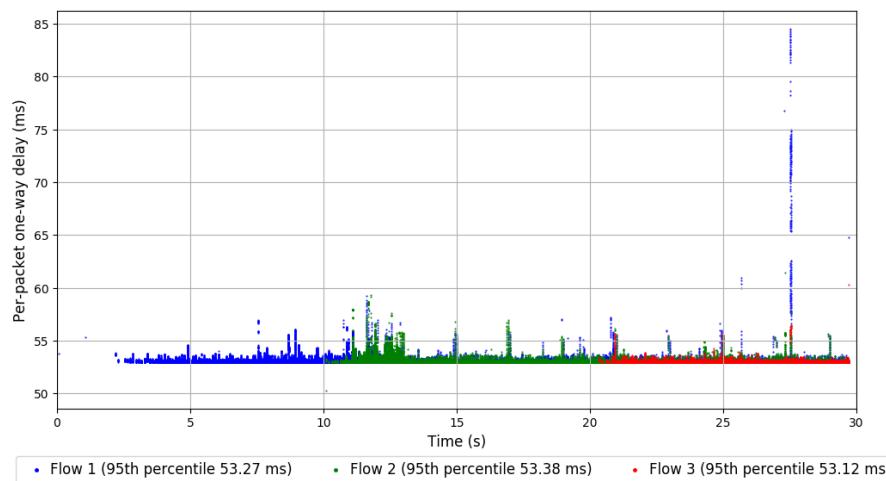
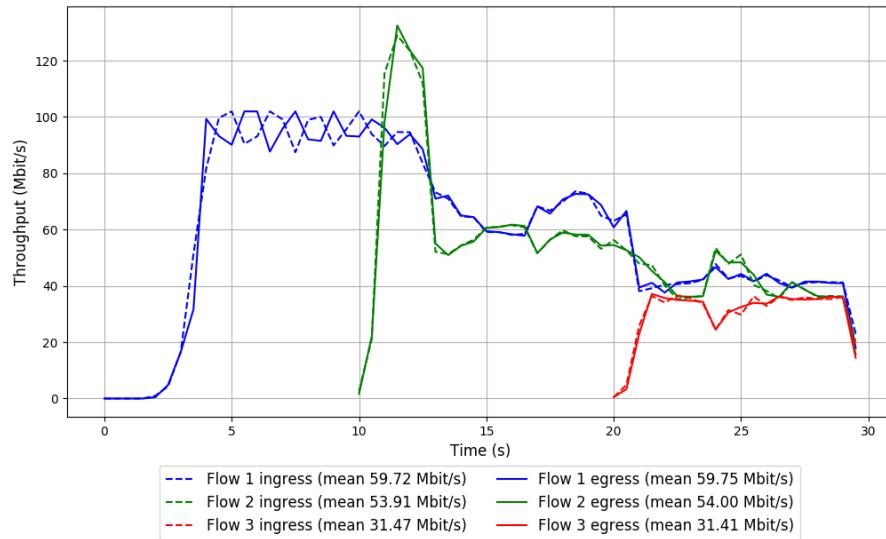
Run 8: Statistics of Indigo

Start at: 2017-09-08 05:40:18

End at: 2017-09-08 05:40:48

```
# Below is generated by plot.py at 2017-09-08 09:56:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 105.34 Mbit/s
95th percentile per-packet one-way delay: 53.280 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 59.75 Mbit/s
95th percentile per-packet one-way delay: 53.269 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 54.00 Mbit/s
95th percentile per-packet one-way delay: 53.379 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 31.41 Mbit/s
95th percentile per-packet one-way delay: 53.120 ms
Loss rate: 1.24%
```

Run 8: Report of Indigo — Data Link



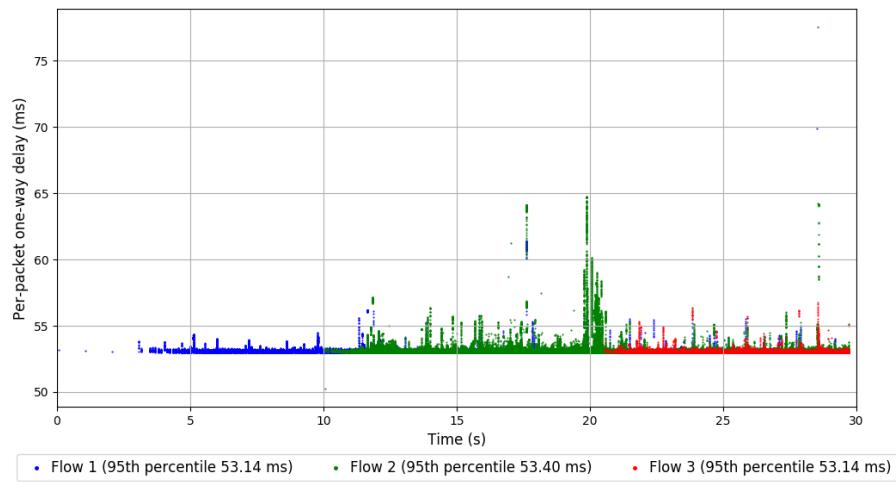
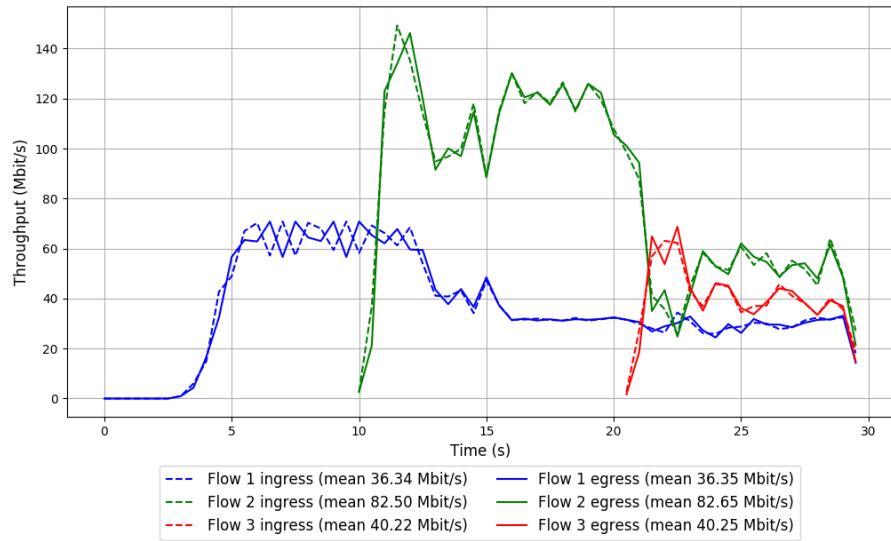
Run 9: Statistics of Indigo

Start at: 2017-09-08 05:52:25

End at: 2017-09-08 05:52:55

```
# Below is generated by plot.py at 2017-09-08 09:56:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 103.53 Mbit/s
95th percentile per-packet one-way delay: 53.246 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 36.35 Mbit/s
95th percentile per-packet one-way delay: 53.144 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 82.65 Mbit/s
95th percentile per-packet one-way delay: 53.402 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 40.25 Mbit/s
95th percentile per-packet one-way delay: 53.144 ms
Loss rate: 1.08%
```

Run 9: Report of Indigo — Data Link



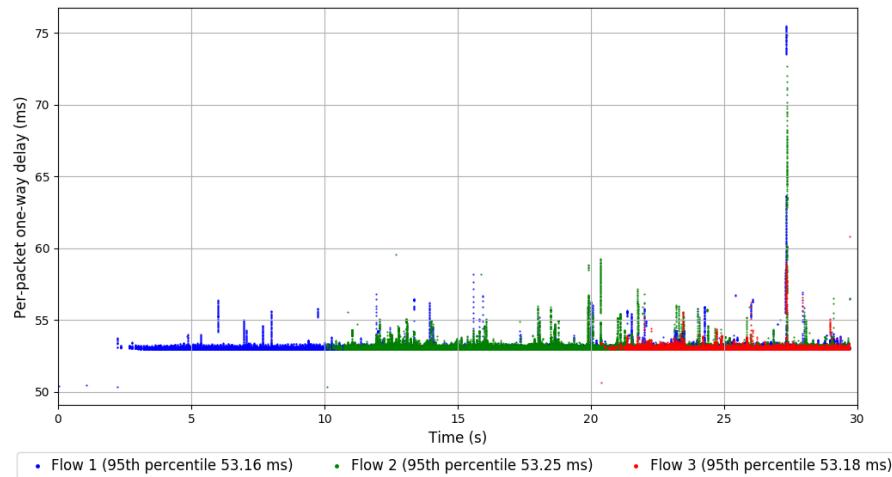
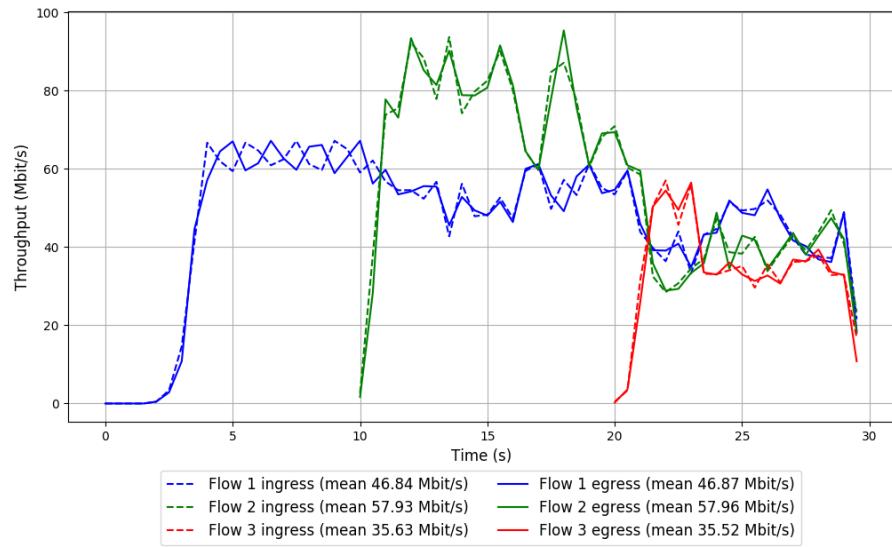
Run 10: Statistics of Indigo

Start at: 2017-09-08 06:04:51

End at: 2017-09-08 06:05:21

```
# Below is generated by plot.py at 2017-09-08 09:56:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.34 Mbit/s
95th percentile per-packet one-way delay: 53.192 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 46.87 Mbit/s
95th percentile per-packet one-way delay: 53.157 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 57.96 Mbit/s
95th percentile per-packet one-way delay: 53.246 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 35.52 Mbit/s
95th percentile per-packet one-way delay: 53.178 ms
Loss rate: 1.29%
```

Run 10: Report of Indigo — Data Link

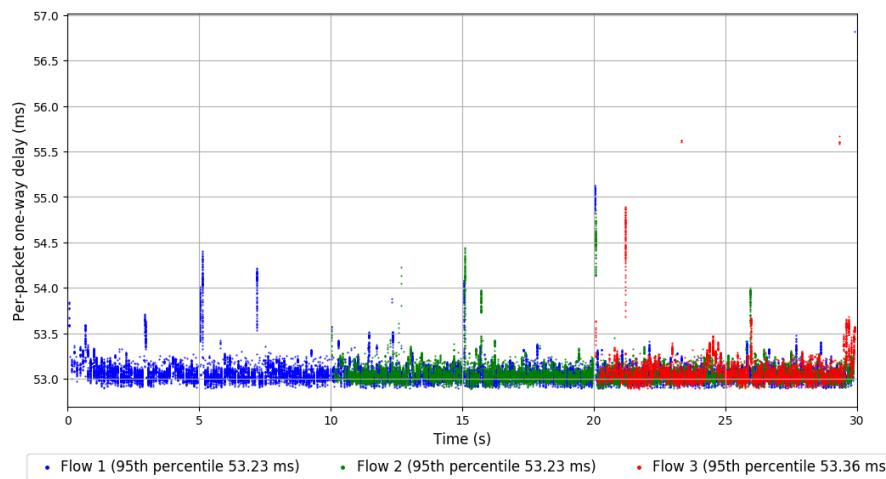
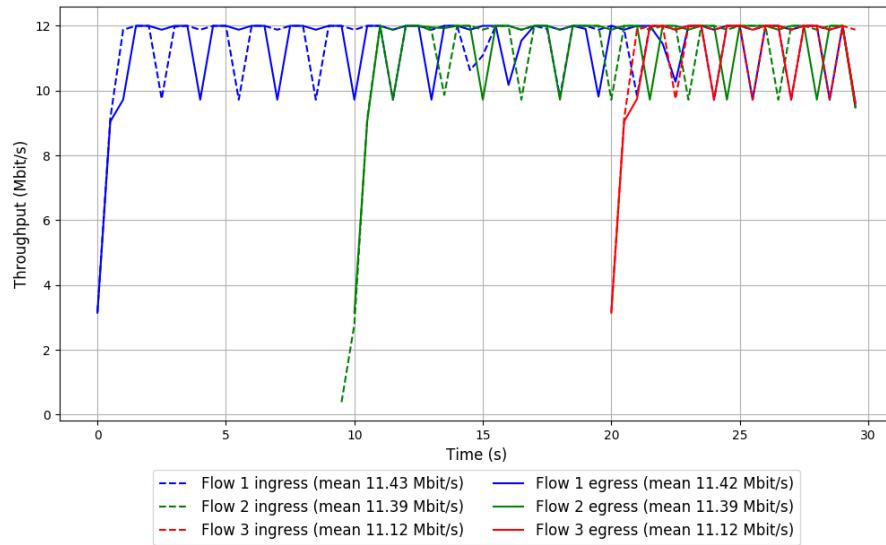


```
Run 1: Statistics of KohoCC

Start at: 2017-09-08 04:16:02
End at: 2017-09-08 04:16:32

# Below is generated by plot.py at 2017-09-08 09:56:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 22.65 Mbit/s
95th percentile per-packet one-way delay: 53.258 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 11.42 Mbit/s
95th percentile per-packet one-way delay: 53.233 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 11.39 Mbit/s
95th percentile per-packet one-way delay: 53.227 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 11.12 Mbit/s
95th percentile per-packet one-way delay: 53.360 ms
Loss rate: 1.09%
```

Run 1: Report of KohoCC — Data Link



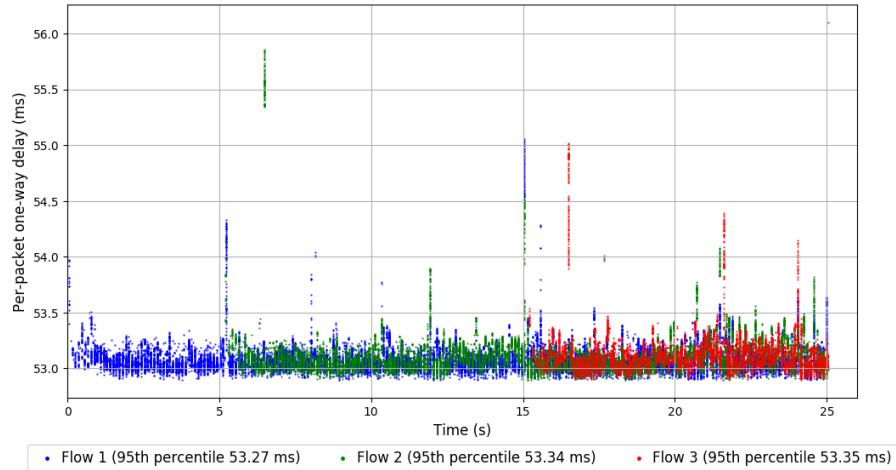
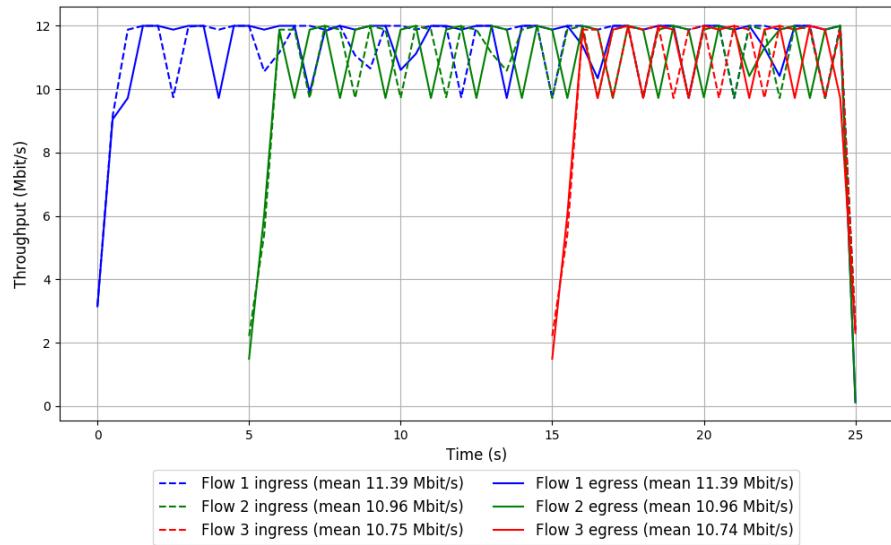
Run 2: Statistics of KohoCC

Start at: 2017-09-08 04:28:34

End at: 2017-09-08 04:29:04

```
# Below is generated by plot.py at 2017-09-08 09:56:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 24.30 Mbit/s
95th percentile per-packet one-way delay: 53.312 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 11.39 Mbit/s
95th percentile per-packet one-way delay: 53.266 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 10.96 Mbit/s
95th percentile per-packet one-way delay: 53.339 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 10.74 Mbit/s
95th percentile per-packet one-way delay: 53.347 ms
Loss rate: 1.12%
```

Run 2: Report of KohoCC — Data Link



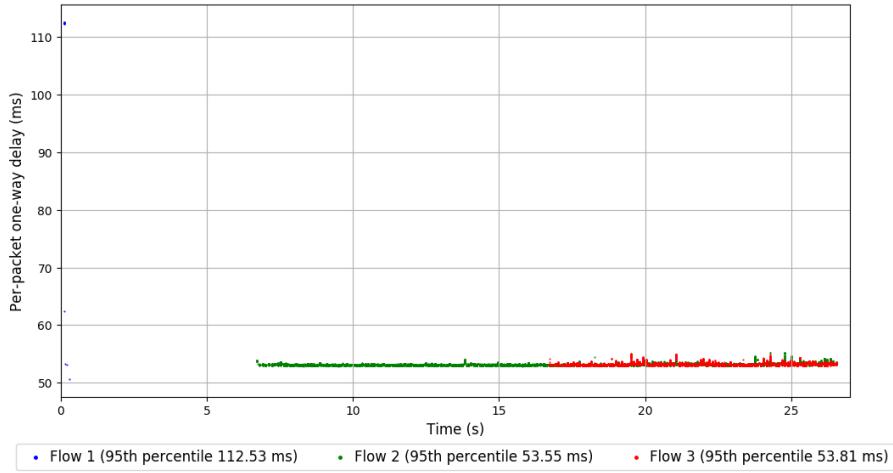
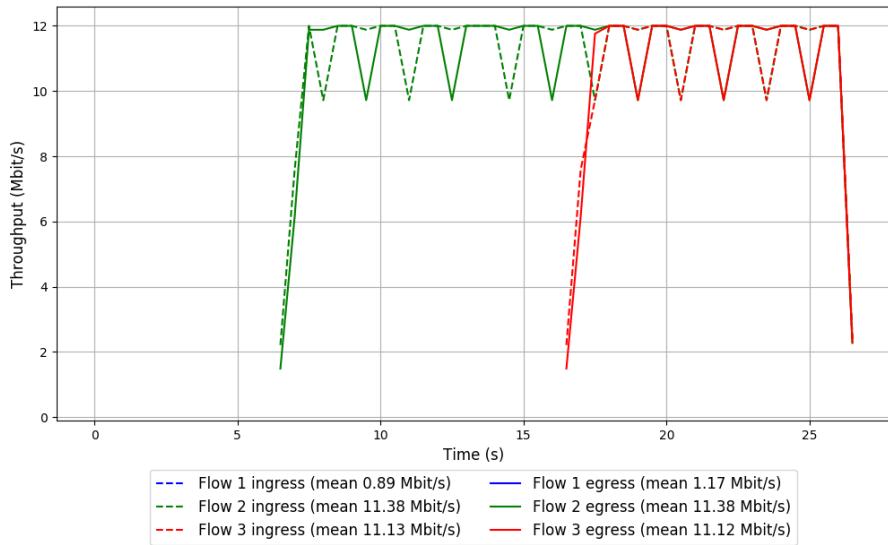
Run 3: Statistics of KohoCC

Start at: 2017-09-08 04:40:55

End at: 2017-09-08 04:41:25

```
# Below is generated by plot.py at 2017-09-08 09:56:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.68 Mbit/s
95th percentile per-packet one-way delay: 53.664 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 1.17 Mbit/s
95th percentile per-packet one-way delay: 112.529 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 11.38 Mbit/s
95th percentile per-packet one-way delay: 53.550 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 11.12 Mbit/s
95th percentile per-packet one-way delay: 53.813 ms
Loss rate: 1.09%
```

Run 3: Report of KohoCC — Data Link



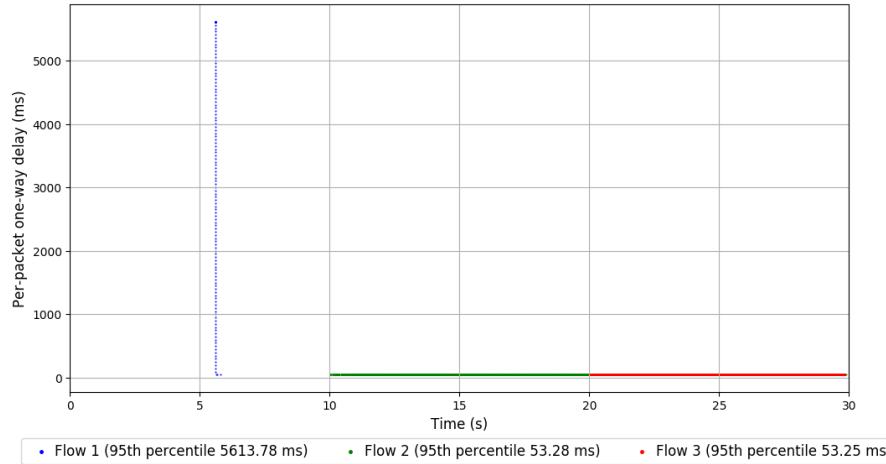
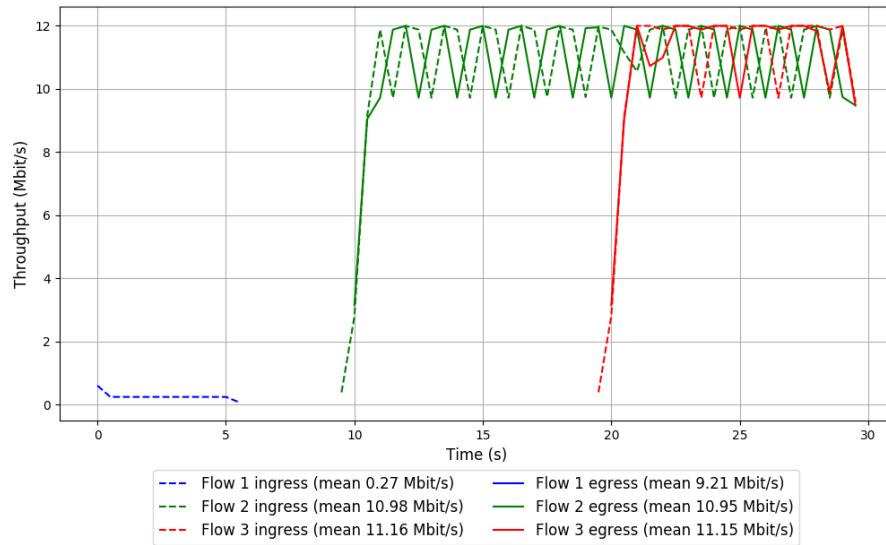
Run 4: Statistics of KohoCC

Start at: 2017-09-08 04:53:16

End at: 2017-09-08 04:53:46

```
# Below is generated by plot.py at 2017-09-08 09:56:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.52 Mbit/s
95th percentile per-packet one-way delay: 53.277 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 9.21 Mbit/s
95th percentile per-packet one-way delay: 5613.776 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 10.95 Mbit/s
95th percentile per-packet one-way delay: 53.278 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 11.15 Mbit/s
95th percentile per-packet one-way delay: 53.248 ms
Loss rate: 1.09%
```

Run 4: Report of KohoCC — Data Link



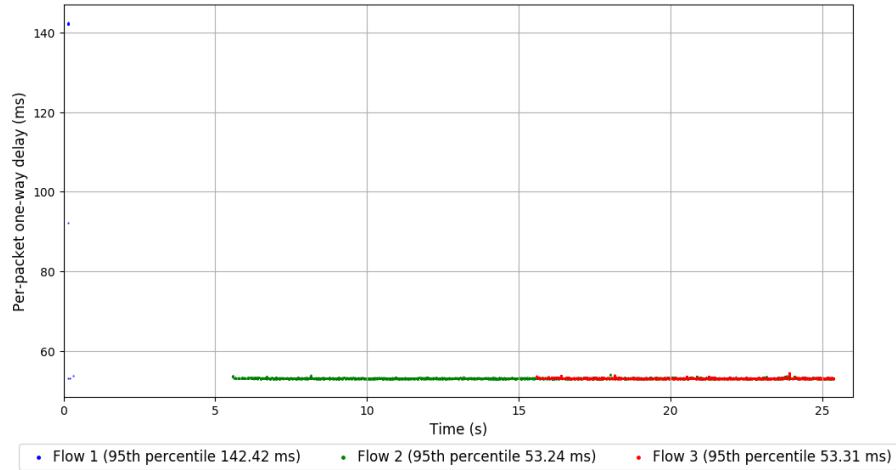
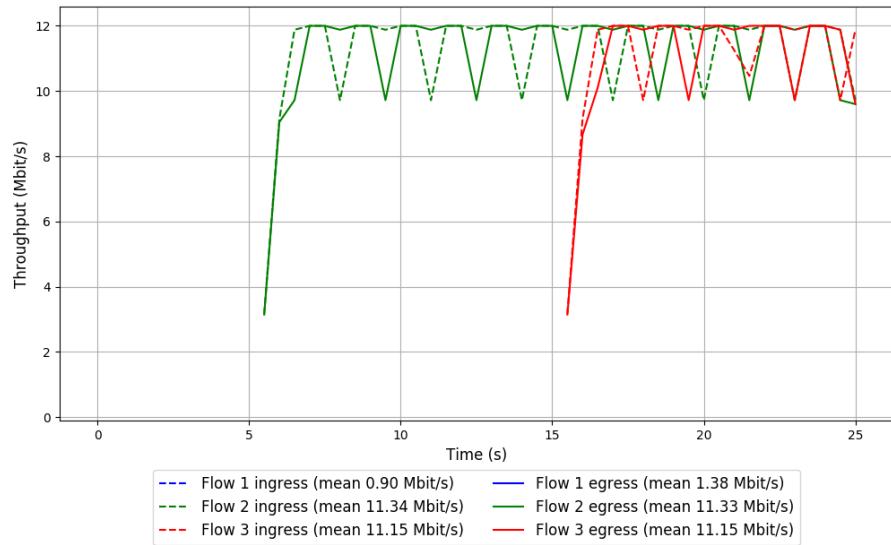
Run 5: Statistics of KohoCC

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

End at: 2017-09-08 05:06:07

```
# Below is generated by plot.py at 2017-09-08 09:56:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.24 Mbit/s
95th percentile per-packet one-way delay: 53.260 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 1.38 Mbit/s
95th percentile per-packet one-way delay: 142.421 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 11.33 Mbit/s
95th percentile per-packet one-way delay: 53.240 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 11.15 Mbit/s
95th percentile per-packet one-way delay: 53.312 ms
Loss rate: 1.09%
```

Run 5: Report of KohoCC — Data Link



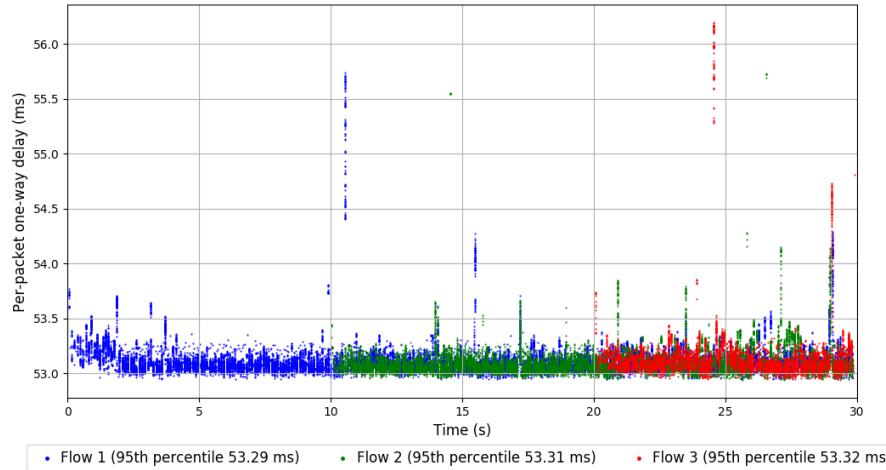
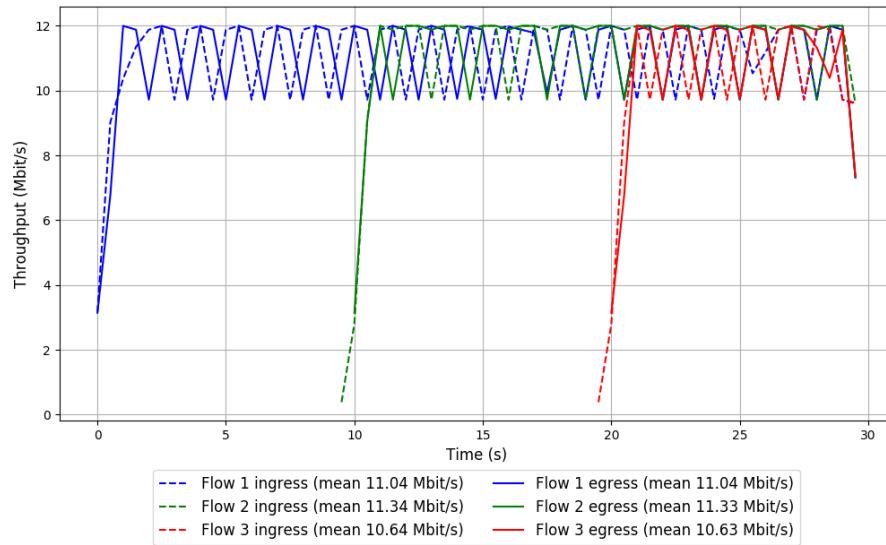
Run 6: Statistics of KohoCC

Start at: 2017-09-08 05:17:47

End at: 2017-09-08 05:18:17

```
# Below is generated by plot.py at 2017-09-08 09:56:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 22.06 Mbit/s
95th percentile per-packet one-way delay: 53.302 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 11.04 Mbit/s
95th percentile per-packet one-way delay: 53.287 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 11.33 Mbit/s
95th percentile per-packet one-way delay: 53.309 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 10.63 Mbit/s
95th percentile per-packet one-way delay: 53.322 ms
Loss rate: 1.13%
```

Run 6: Report of KohoCC — Data Link



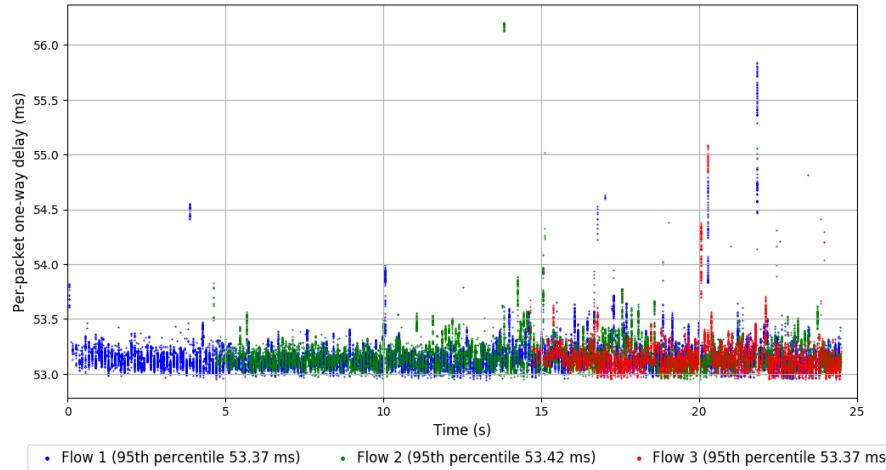
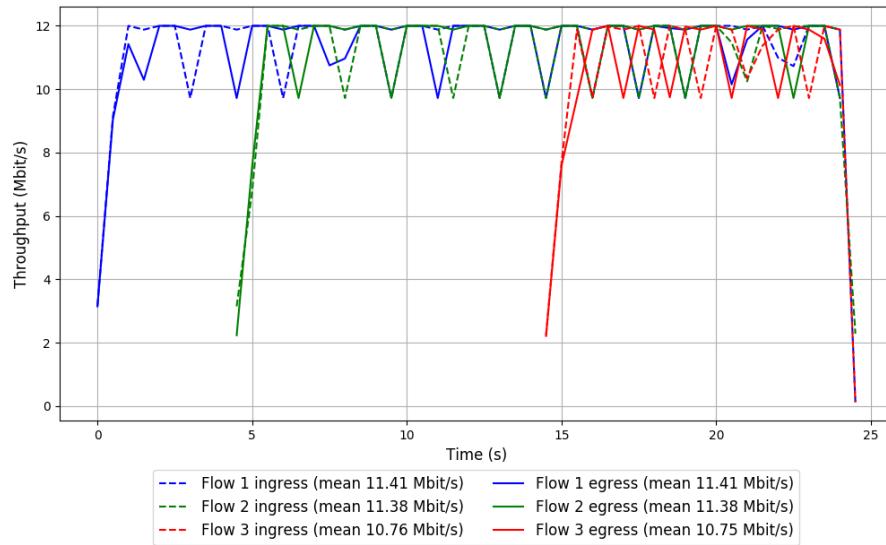
Run 7: Statistics of KohoCC

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

End at: 2017-09-08 05:30:38

```
# Below is generated by plot.py at 2017-09-08 09:56:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 24.97 Mbit/s
95th percentile per-packet one-way delay: 53.397 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 11.41 Mbit/s
95th percentile per-packet one-way delay: 53.372 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 11.38 Mbit/s
95th percentile per-packet one-way delay: 53.425 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 10.75 Mbit/s
95th percentile per-packet one-way delay: 53.366 ms
Loss rate: 1.12%
```

Run 7: Report of KohoCC — Data Link



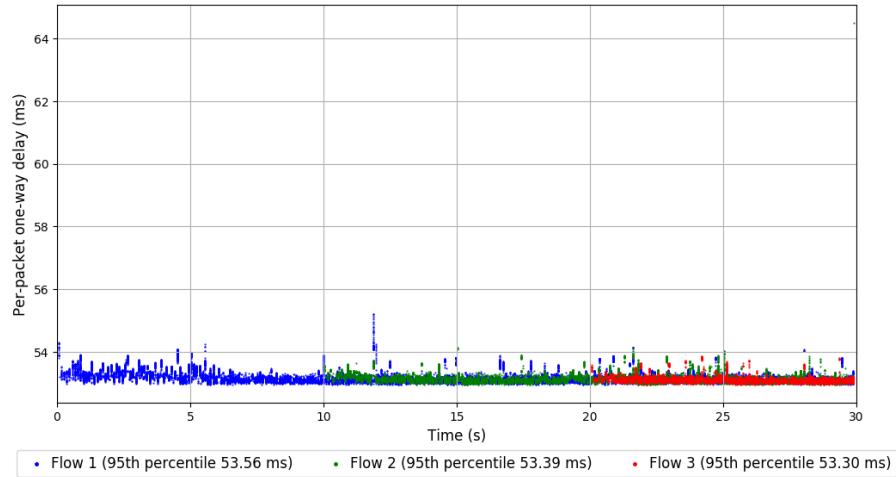
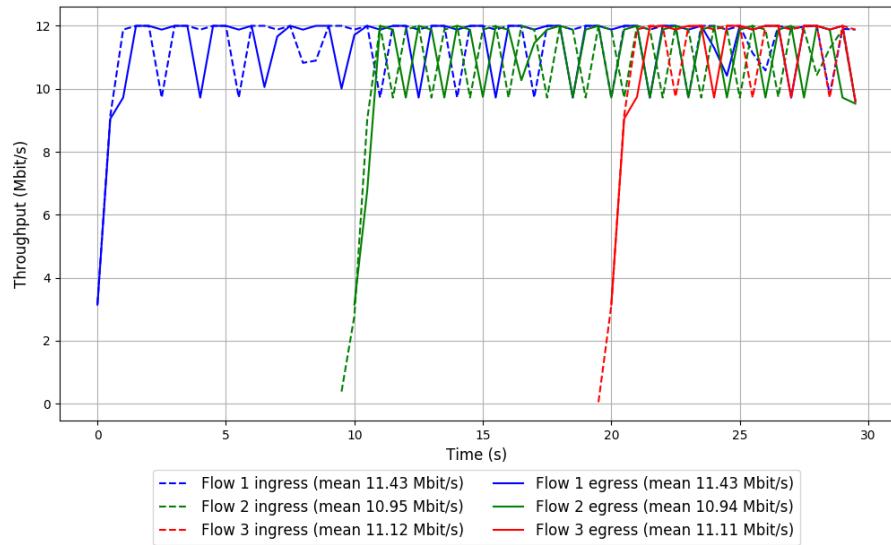
Run 8: Statistics of KohoCC

Start at: 2017-09-08 05:42:33

End at: 2017-09-08 05:43:03

```
# Below is generated by plot.py at 2017-09-08 09:57:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 22.36 Mbit/s
95th percentile per-packet one-way delay: 53.492 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 11.43 Mbit/s
95th percentile per-packet one-way delay: 53.564 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 10.94 Mbit/s
95th percentile per-packet one-way delay: 53.389 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 11.11 Mbit/s
95th percentile per-packet one-way delay: 53.298 ms
Loss rate: 1.09%
```

Run 8: Report of KohoCC — Data Link



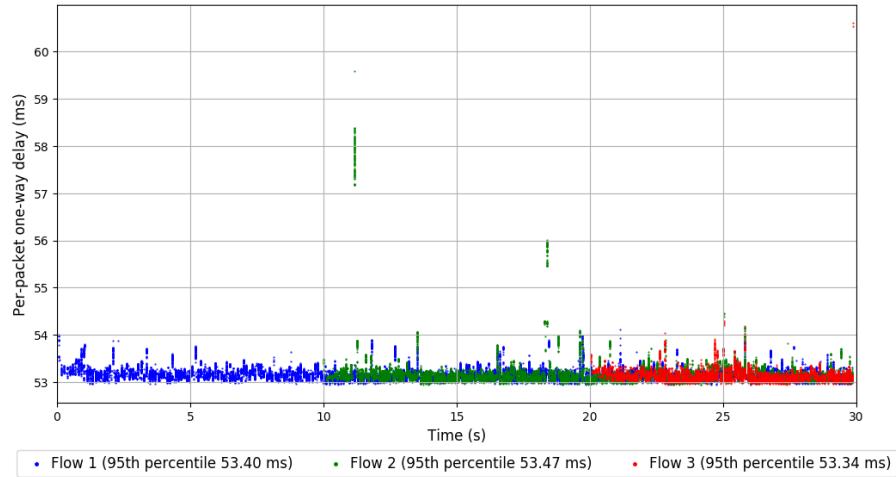
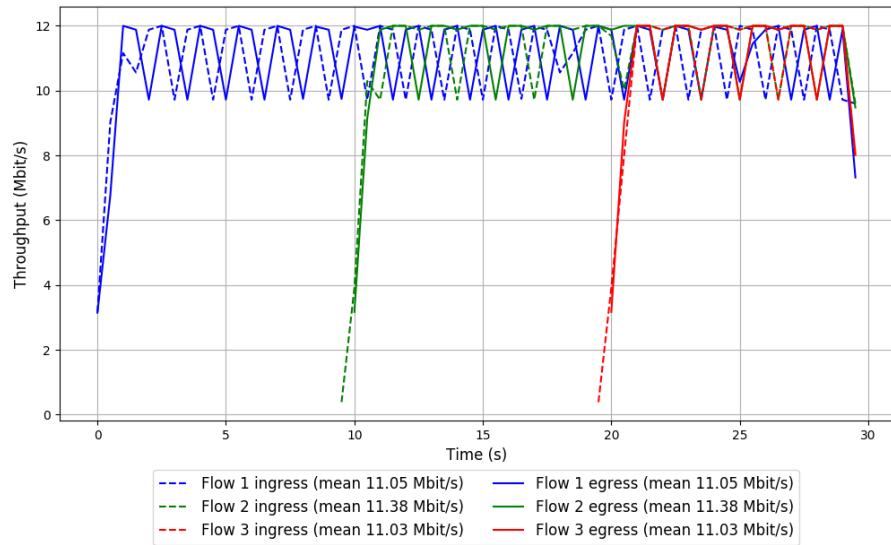
Run 9: Statistics of KohoCC

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

End at: 2017-09-08 05:55:13

```
# Below is generated by plot.py at 2017-09-08 09:57:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 22.25 Mbit/s
95th percentile per-packet one-way delay: 53.412 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 11.05 Mbit/s
95th percentile per-packet one-way delay: 53.402 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 11.38 Mbit/s
95th percentile per-packet one-way delay: 53.471 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 11.03 Mbit/s
95th percentile per-packet one-way delay: 53.345 ms
Loss rate: 0.97%
```

Run 9: Report of KohoCC — Data Link



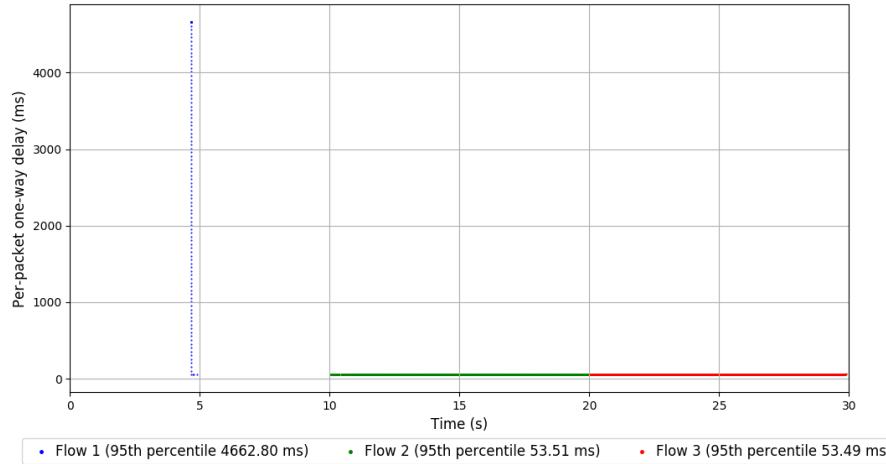
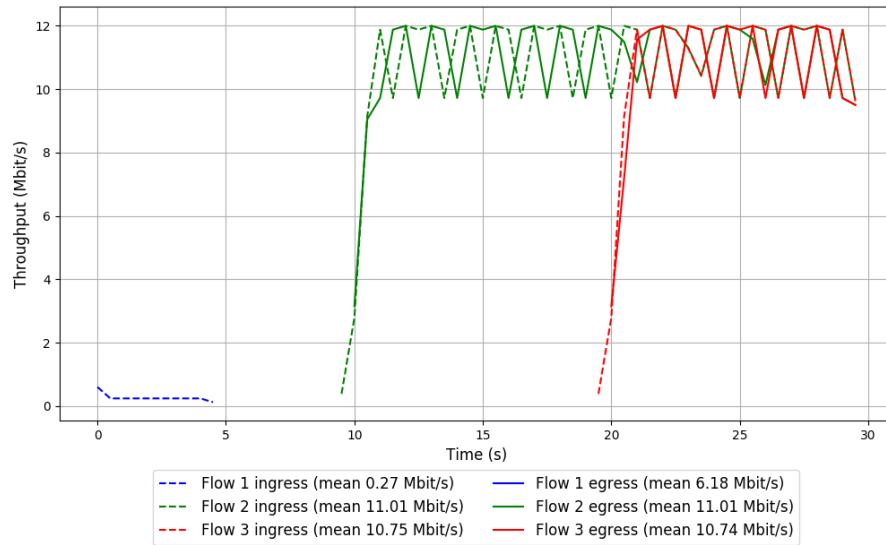
Run 10: Statistics of KohoCC

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

End at: 2017-09-08 06:07:37

```
# Below is generated by plot.py at 2017-09-08 09:57:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.91 Mbit/s
95th percentile per-packet one-way delay: 53.517 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 6.18 Mbit/s
95th percentile per-packet one-way delay: 4662.802 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 11.01 Mbit/s
95th percentile per-packet one-way delay: 53.508 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 10.74 Mbit/s
95th percentile per-packet one-way delay: 53.495 ms
Loss rate: 1.12%
```

Run 10: Report of KohoCC — Data Link

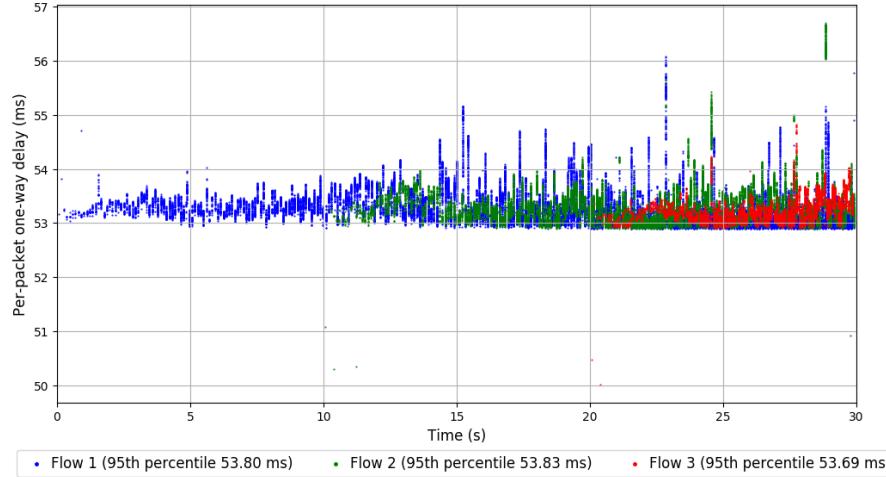
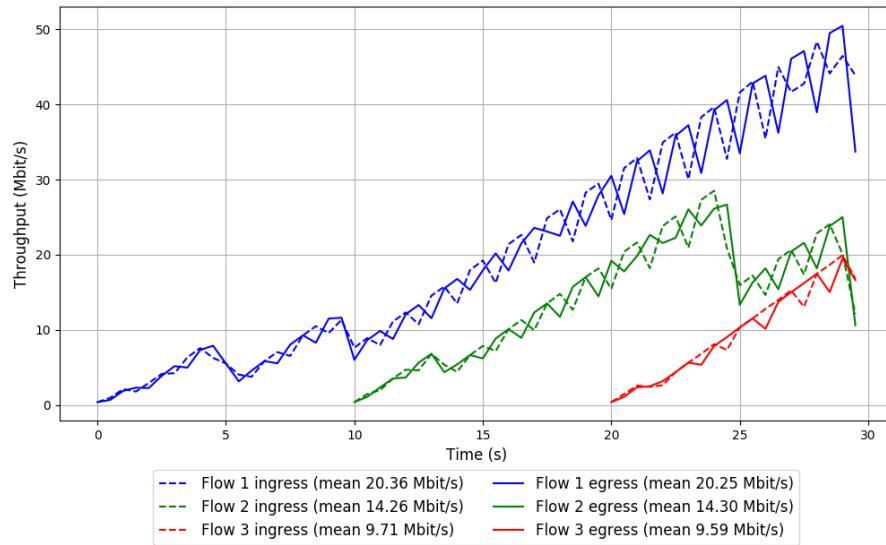


```
Run 1: Statistics of LEDBAT

Start at: 2017-09-08 04:13:03
End at: 2017-09-08 04:13:33

# Below is generated by plot.py at 2017-09-08 09:57:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 32.89 Mbit/s
95th percentile per-packet one-way delay: 53.795 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 20.25 Mbit/s
95th percentile per-packet one-way delay: 53.801 ms
Loss rate: 0.86%
-- Flow 2:
Average throughput: 14.30 Mbit/s
95th percentile per-packet one-way delay: 53.831 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 9.59 Mbit/s
95th percentile per-packet one-way delay: 53.693 ms
Loss rate: 2.23%
```

Run 1: Report of LEDBAT — Data Link



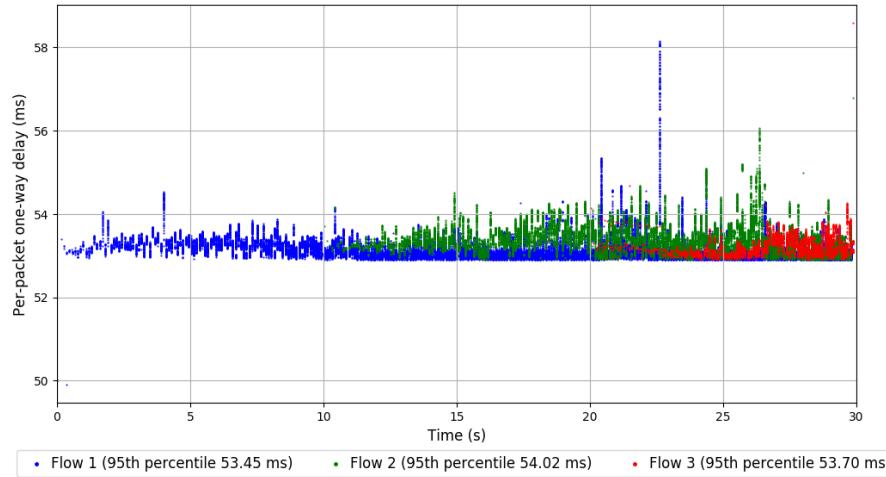
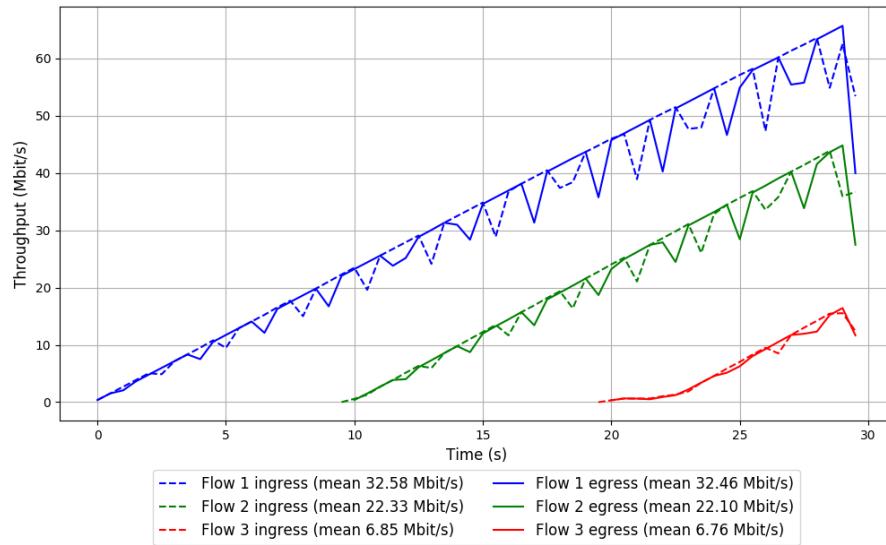
Run 2: Statistics of LEDBAT

Start at: 2017-09-08 04:25:33

End at: 2017-09-08 04:26:03

```
# Below is generated by plot.py at 2017-09-08 09:57:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.33 Mbit/s
95th percentile per-packet one-way delay: 53.775 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 32.46 Mbit/s
95th percentile per-packet one-way delay: 53.446 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 22.10 Mbit/s
95th percentile per-packet one-way delay: 54.021 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 6.76 Mbit/s
95th percentile per-packet one-way delay: 53.699 ms
Loss rate: 2.26%
```

Run 2: Report of LEDBAT — Data Link



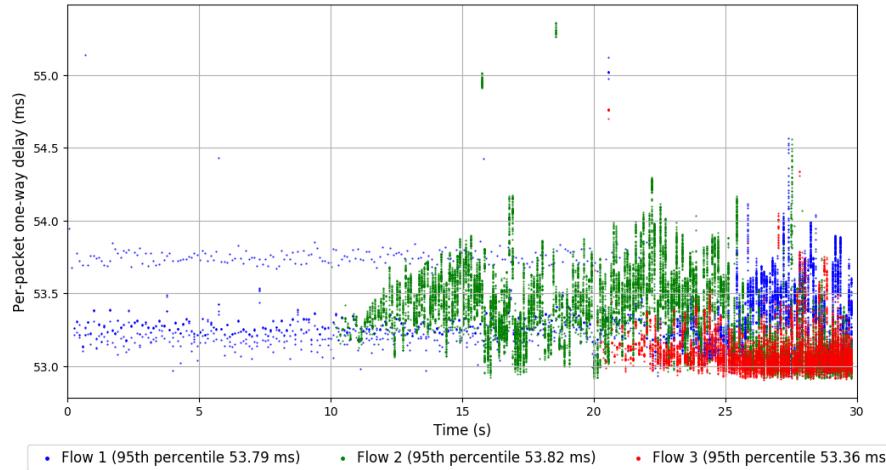
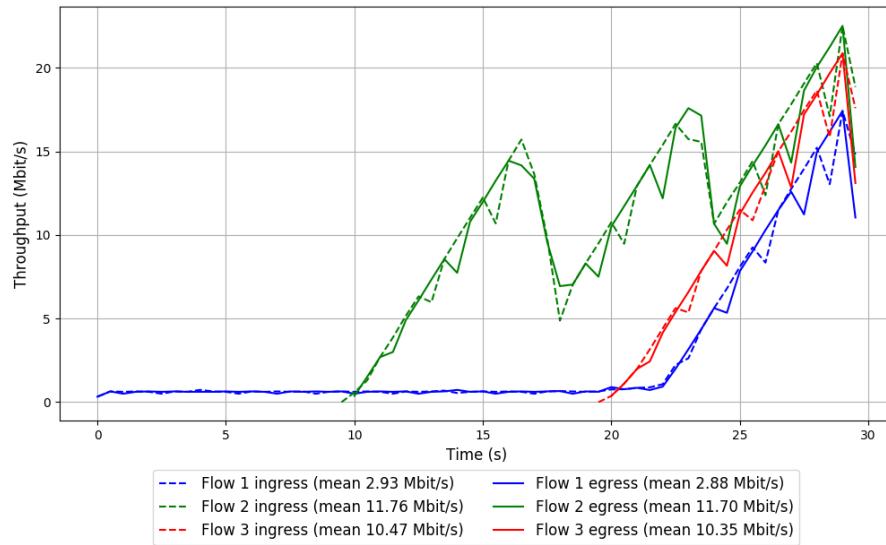
Run 3: Statistics of LEDBAT

Start at: 2017-09-08 04:37:57

End at: 2017-09-08 04:38:27

```
# Below is generated by plot.py at 2017-09-08 09:57:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.05 Mbit/s
95th percentile per-packet one-way delay: 53.774 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 2.88 Mbit/s
95th percentile per-packet one-way delay: 53.794 ms
Loss rate: 2.16%
-- Flow 2:
Average throughput: 11.70 Mbit/s
95th percentile per-packet one-way delay: 53.824 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 10.35 Mbit/s
95th percentile per-packet one-way delay: 53.362 ms
Loss rate: 2.17%
```

Run 3: Report of LEDBAT — Data Link



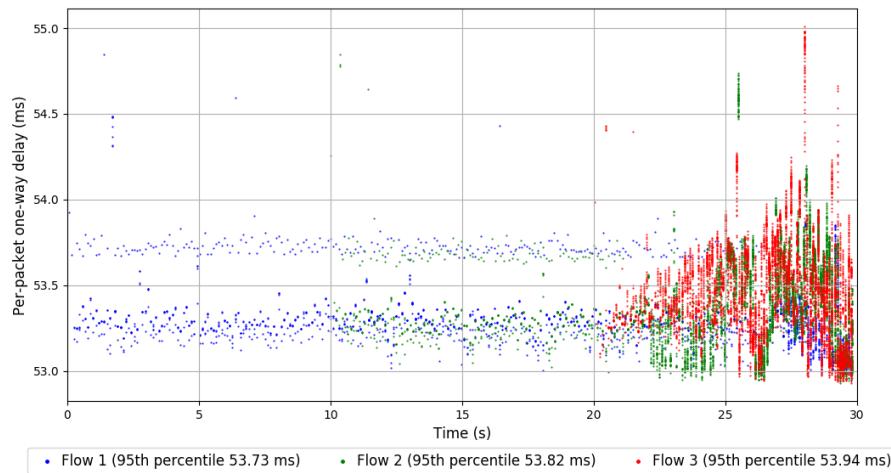
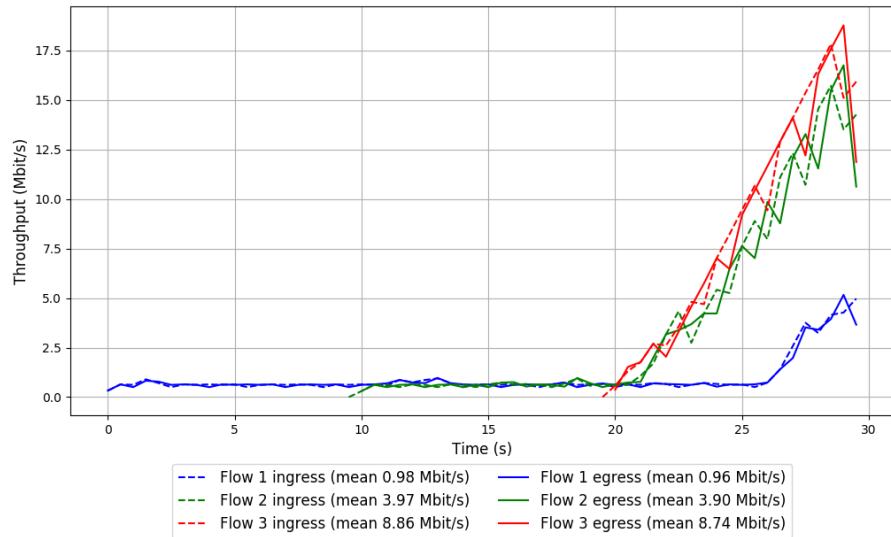
Run 4: Statistics of LEDBAT

Start at: 2017-09-08 04:50:19

End at: 2017-09-08 04:50:49

```
# Below is generated by plot.py at 2017-09-08 09:57:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.42 Mbit/s
95th percentile per-packet one-way delay: 53.876 ms
Loss rate: 2.31%
-- Flow 1:
Average throughput: 0.96 Mbit/s
95th percentile per-packet one-way delay: 53.730 ms
Loss rate: 2.25%
-- Flow 2:
Average throughput: 3.90 Mbit/s
95th percentile per-packet one-way delay: 53.817 ms
Loss rate: 2.32%
-- Flow 3:
Average throughput: 8.74 Mbit/s
95th percentile per-packet one-way delay: 53.939 ms
Loss rate: 2.32%
```

Run 4: Report of LEDBAT — Data Link



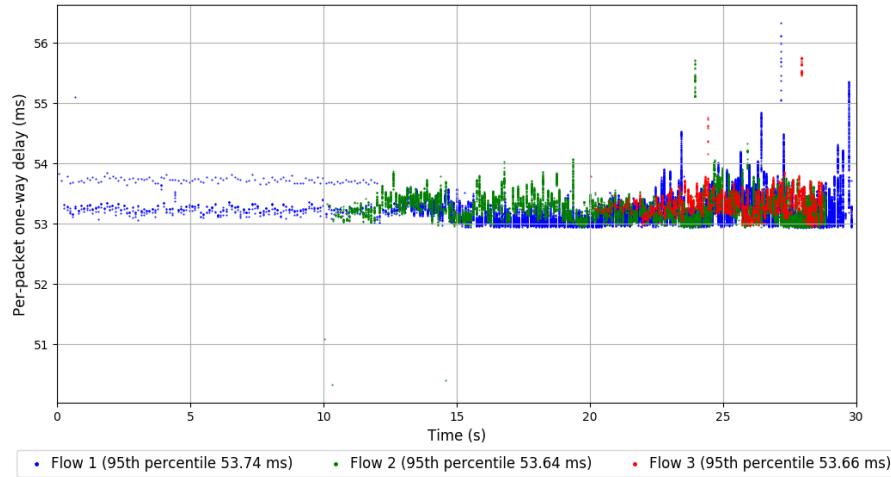
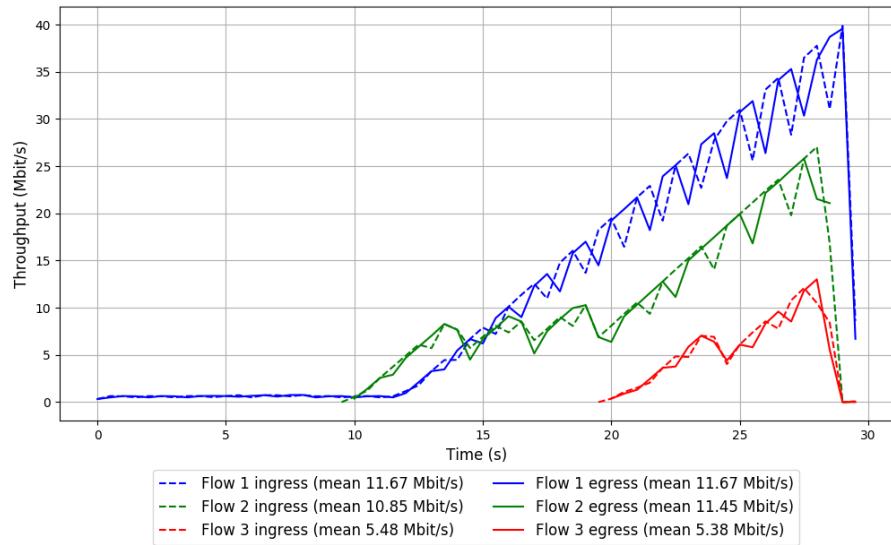
Run 5: Statistics of LEDBAT

Start at: 2017-09-08 05:02:40

End at: 2017-09-08 05:03:10

```
# Below is generated by plot.py at 2017-09-08 09:57:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 20.66 Mbit/s
95th percentile per-packet one-way delay: 53.694 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 11.67 Mbit/s
95th percentile per-packet one-way delay: 53.740 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 11.45 Mbit/s
95th percentile per-packet one-way delay: 53.641 ms
Loss rate: 0.30%
-- Flow 3:
Average throughput: 5.38 Mbit/s
95th percentile per-packet one-way delay: 53.659 ms
Loss rate: 2.84%
```

Run 5: Report of LEDBAT — Data Link



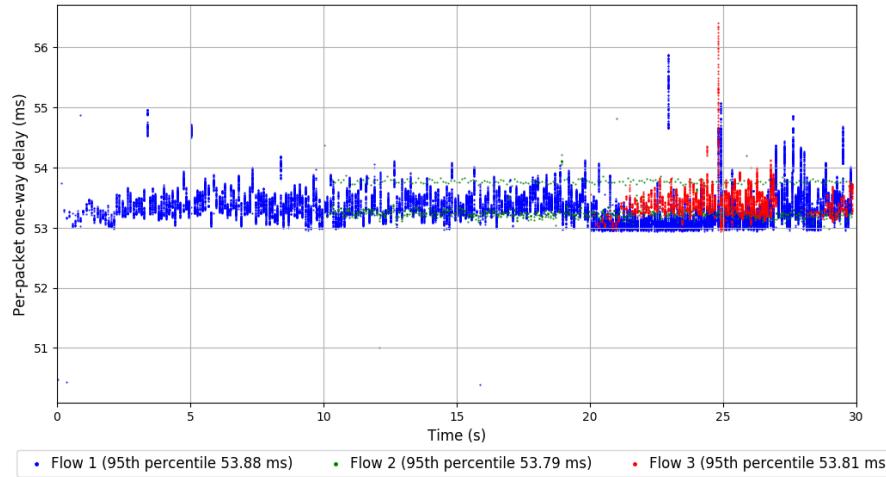
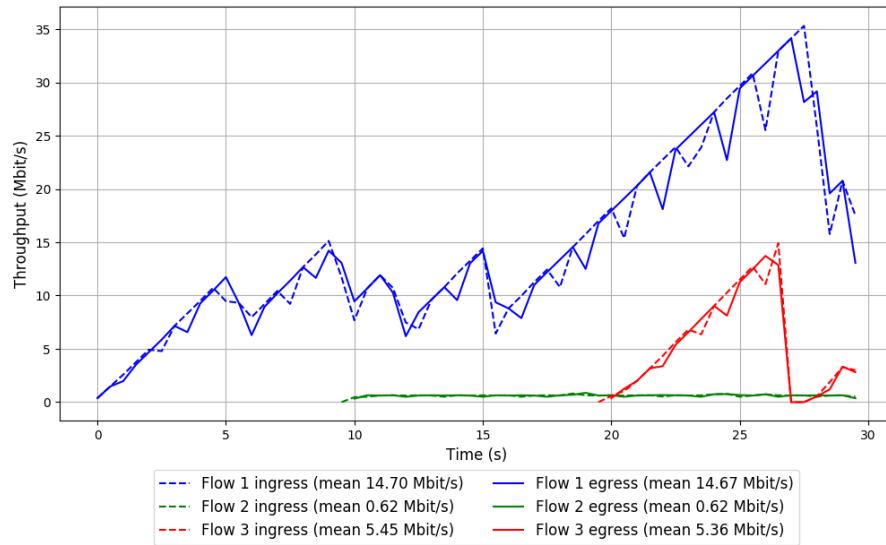
Run 6: Statistics of LEDBAT

Start at: 2017-09-08 05:14:49

End at: 2017-09-08 05:15:19

```
# Below is generated by plot.py at 2017-09-08 09:57:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 16.83 Mbit/s
95th percentile per-packet one-way delay: 53.860 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 14.67 Mbit/s
95th percentile per-packet one-way delay: 53.877 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 0.62 Mbit/s
95th percentile per-packet one-way delay: 53.789 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 5.36 Mbit/s
95th percentile per-packet one-way delay: 53.807 ms
Loss rate: 2.67%
```

Run 6: Report of LEDBAT — Data Link



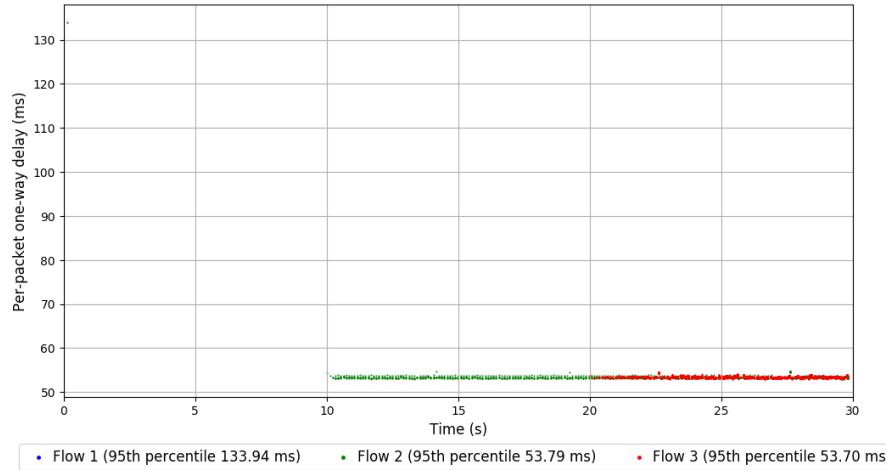
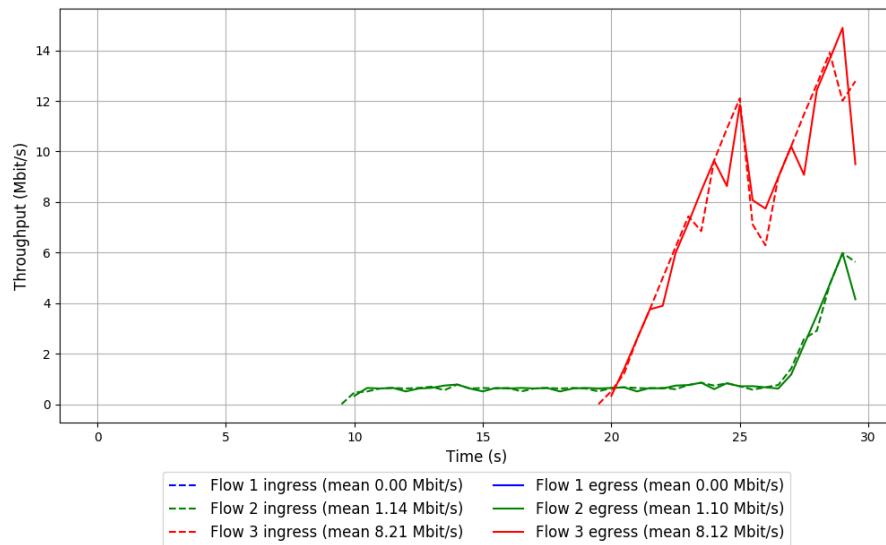
Run 7: Statistics of LEDBAT

Start at: 2017-09-08 05:27:11

End at: 2017-09-08 05:27:41

```
# Below is generated by plot.py at 2017-09-08 09:57:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.40 Mbit/s
95th percentile per-packet one-way delay: 53.741 ms
Loss rate: 2.36%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 133.944 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.10 Mbit/s
95th percentile per-packet one-way delay: 53.788 ms
Loss rate: 3.27%
-- Flow 3:
Average throughput: 8.12 Mbit/s
95th percentile per-packet one-way delay: 53.700 ms
Loss rate: 2.10%
```

Run 7: Report of LEDBAT — Data Link



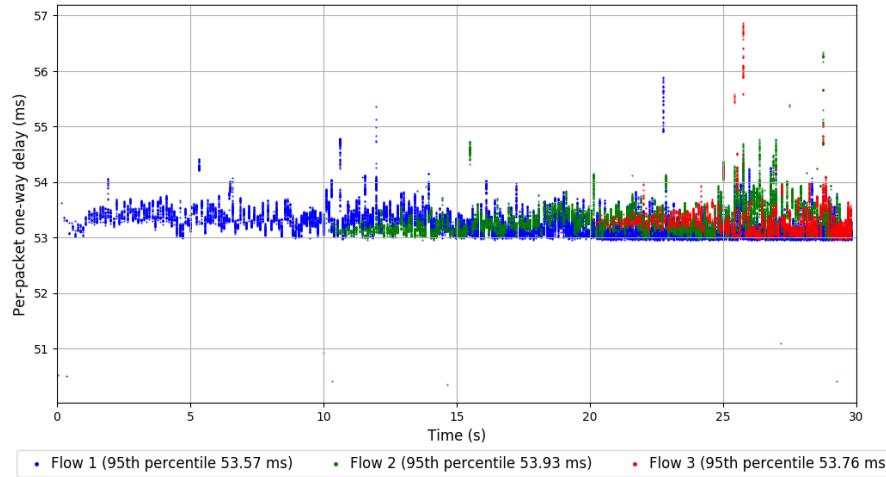
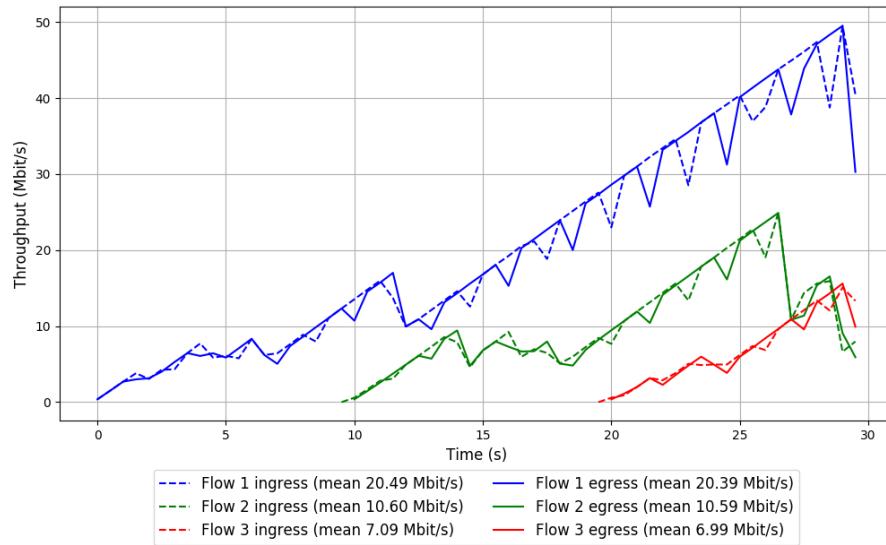
Run 8: Statistics of LEDBAT

Start at: 2017-09-08 05:39:37

End at: 2017-09-08 05:40:07

```
# Below is generated by plot.py at 2017-09-08 09:57:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 29.73 Mbit/s
95th percentile per-packet one-way delay: 53.676 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 20.39 Mbit/s
95th percentile per-packet one-way delay: 53.570 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 10.59 Mbit/s
95th percentile per-packet one-way delay: 53.927 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 6.99 Mbit/s
95th percentile per-packet one-way delay: 53.764 ms
Loss rate: 2.44%
```

Run 8: Report of LEDBAT — Data Link



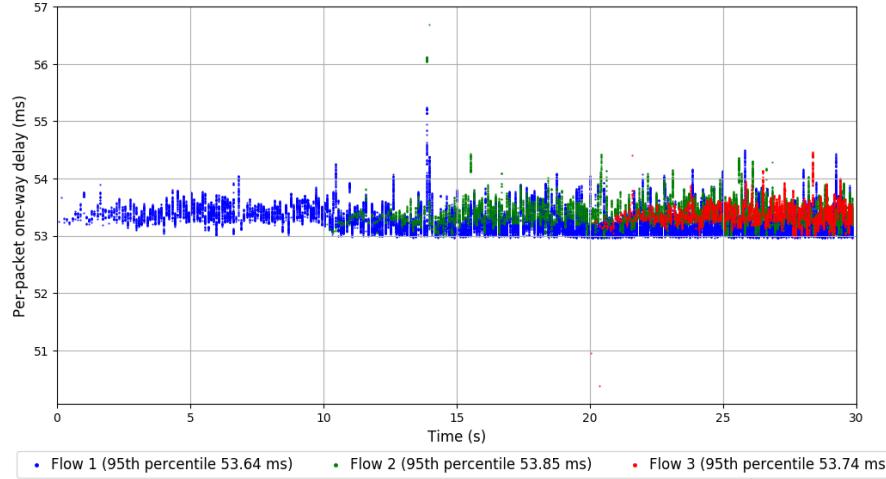
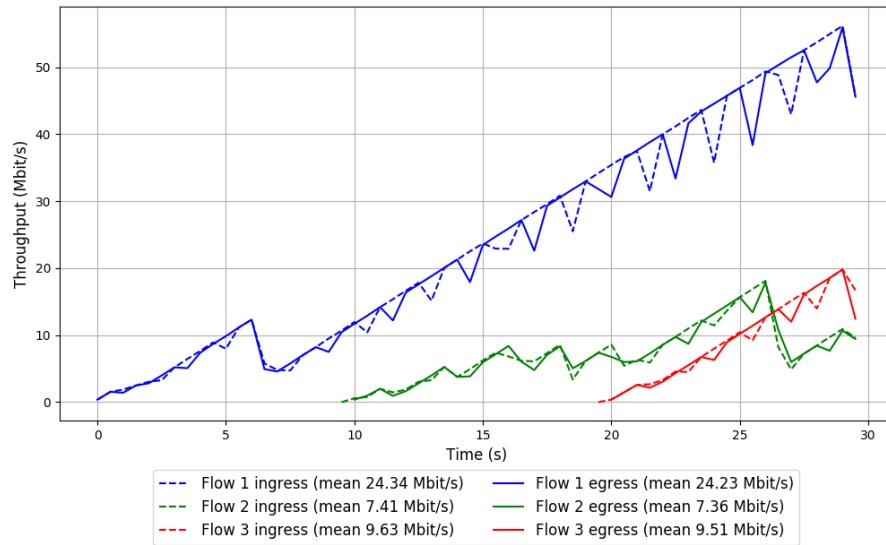
Run 9: Statistics of LEDBAT

Start at: 2017-09-08 05:51:44

End at: 2017-09-08 05:52:14

```
# Below is generated by plot.py at 2017-09-08 09:57:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 32.24 Mbit/s
95th percentile per-packet one-way delay: 53.693 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 24.23 Mbit/s
95th percentile per-packet one-way delay: 53.644 ms
Loss rate: 0.79%
-- Flow 2:
Average throughput: 7.36 Mbit/s
95th percentile per-packet one-way delay: 53.849 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 9.51 Mbit/s
95th percentile per-packet one-way delay: 53.736 ms
Loss rate: 2.23%
```

Run 9: Report of LEDBAT — Data Link



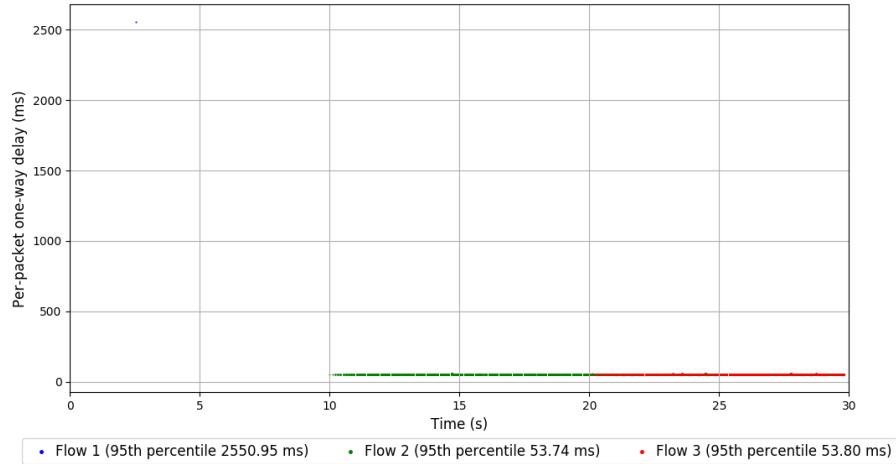
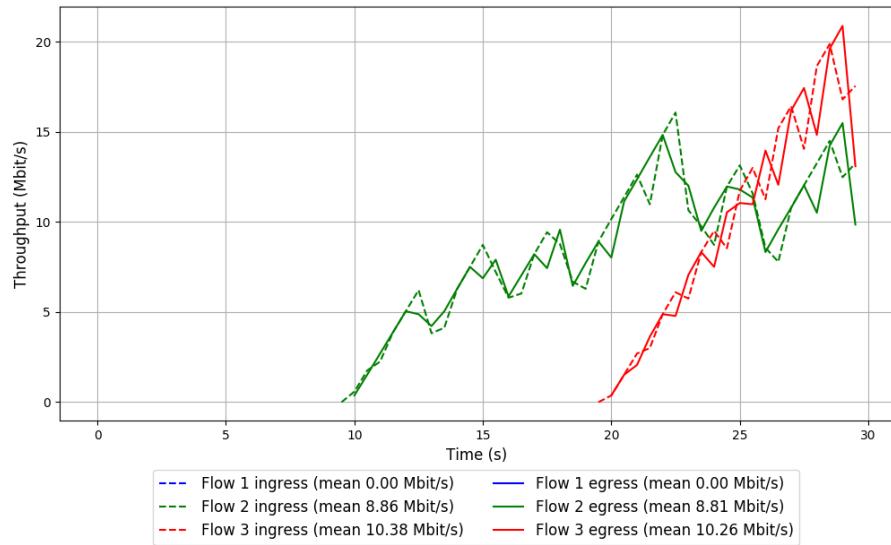
Run 10: Statistics of LEDBAT

Start at: 2017-09-08 06:04:11

End at: 2017-09-08 06:04:41

```
# Below is generated by plot.py at 2017-09-08 09:57:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 10.08 Mbit/s
95th percentile per-packet one-way delay: 53.754 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 2550.946 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 8.81 Mbit/s
95th percentile per-packet one-way delay: 53.740 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 10.26 Mbit/s
95th percentile per-packet one-way delay: 53.795 ms
Loss rate: 2.17%
```

Run 10: Report of LEDBAT — Data Link

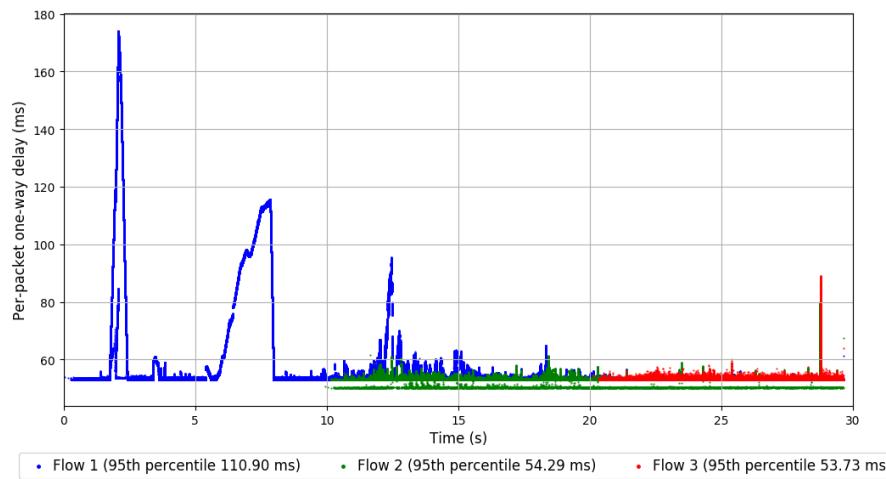
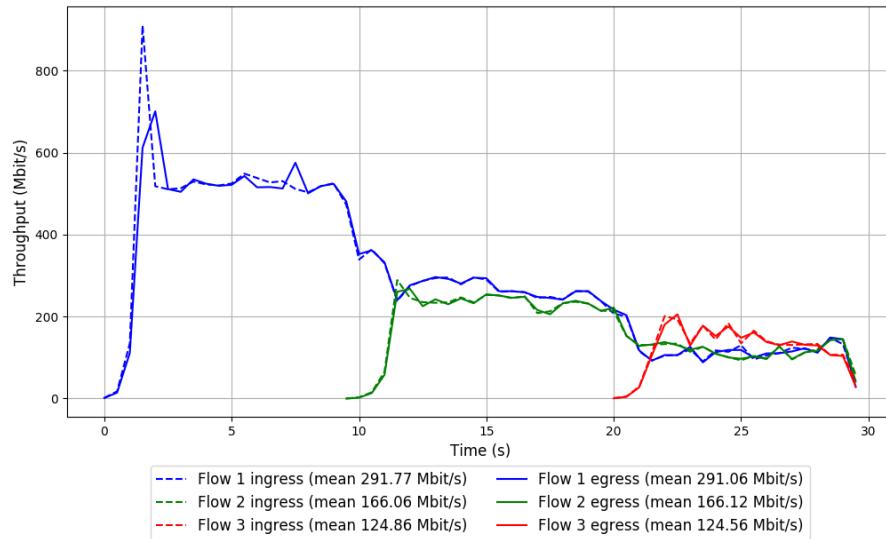


```
Run 1: Statistics of PCC

Start at: 2017-09-08 04:22:10
End at: 2017-09-08 04:22:40

# Below is generated by plot.py at 2017-09-08 09:58:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 441.84 Mbit/s
95th percentile per-packet one-way delay: 98.616 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 291.06 Mbit/s
95th percentile per-packet one-way delay: 110.899 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 166.12 Mbit/s
95th percentile per-packet one-way delay: 54.287 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 124.56 Mbit/s
95th percentile per-packet one-way delay: 53.728 ms
Loss rate: 1.28%
```

Run 1: Report of PCC — Data Link



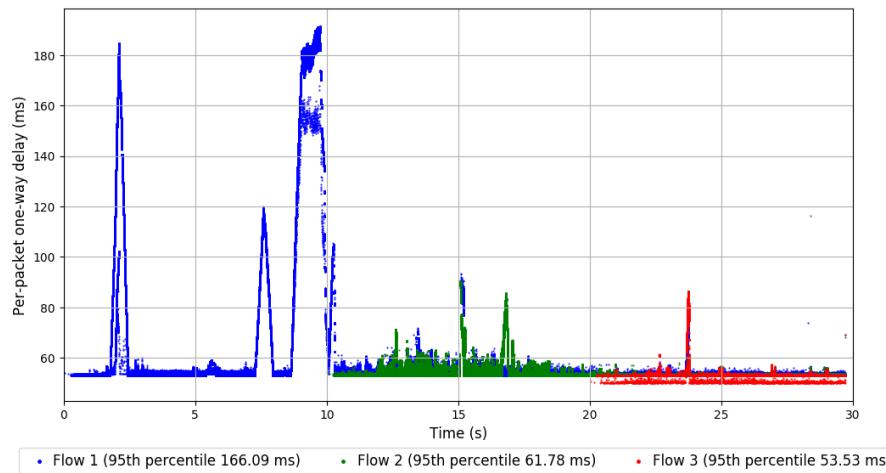
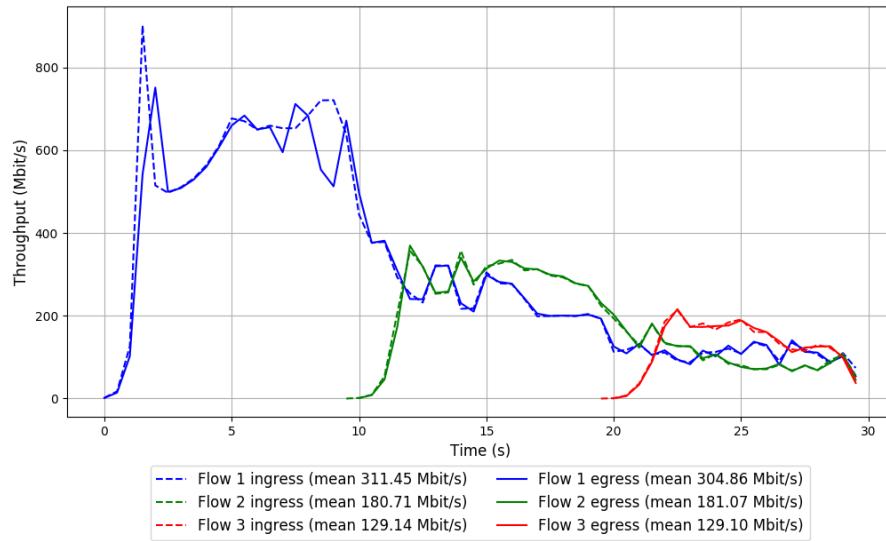
Run 2: Statistics of PCC

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

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

```
# Below is generated by plot.py at 2017-09-08 09:59:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 467.29 Mbit/s
95th percentile per-packet one-way delay: 135.831 ms
Loss rate: 1.76%
-- Flow 1:
Average throughput: 304.86 Mbit/s
95th percentile per-packet one-way delay: 166.087 ms
Loss rate: 2.43%
-- Flow 2:
Average throughput: 181.07 Mbit/s
95th percentile per-packet one-way delay: 61.785 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 129.10 Mbit/s
95th percentile per-packet one-way delay: 53.529 ms
Loss rate: 0.98%
```

Run 2: Report of PCC — Data Link



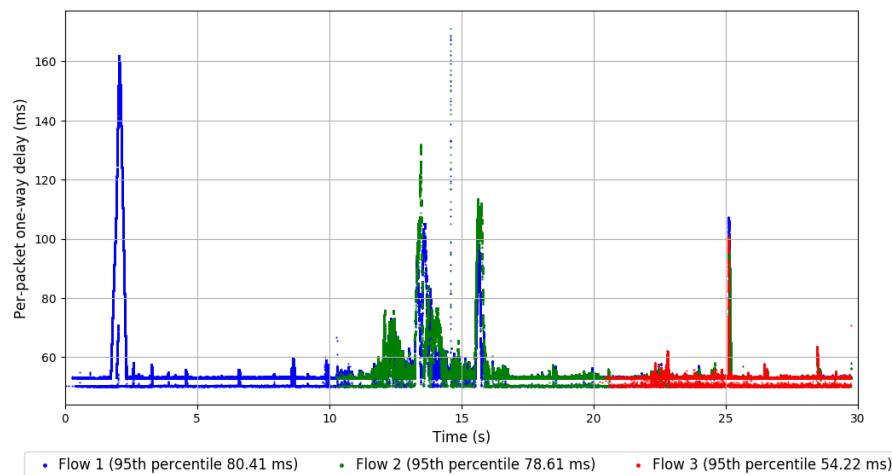
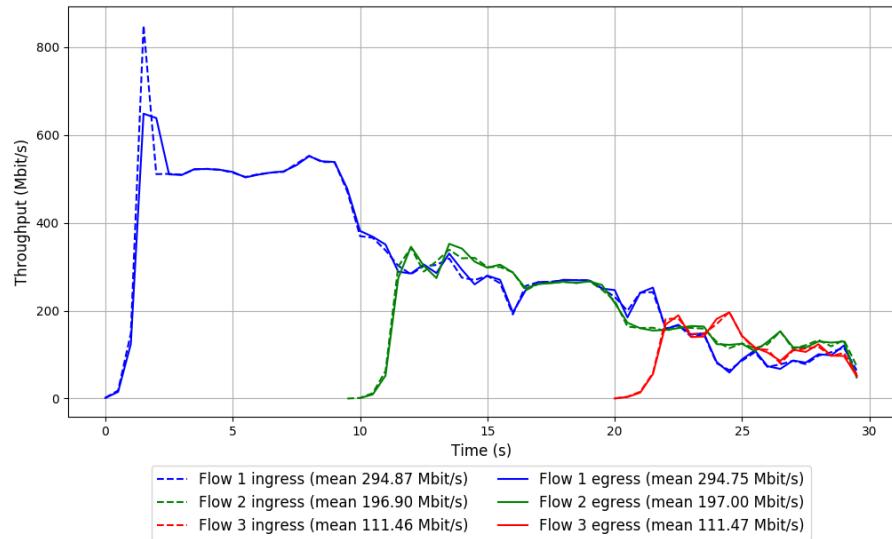
Run 3: Statistics of PCC

Start at: 2017-09-08 04:46:57

End at: 2017-09-08 04:47:27

```
# Below is generated by plot.py at 2017-09-08 10:00:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 460.99 Mbit/s
95th percentile per-packet one-way delay: 76.642 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 294.75 Mbit/s
95th percentile per-packet one-way delay: 80.412 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 197.00 Mbit/s
95th percentile per-packet one-way delay: 78.611 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 111.47 Mbit/s
95th percentile per-packet one-way delay: 54.221 ms
Loss rate: 0.96%
```

Run 3: Report of PCC — Data Link



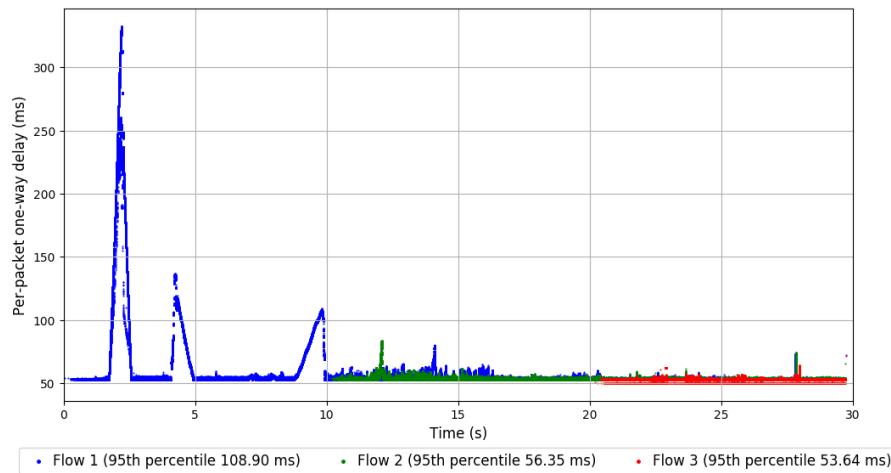
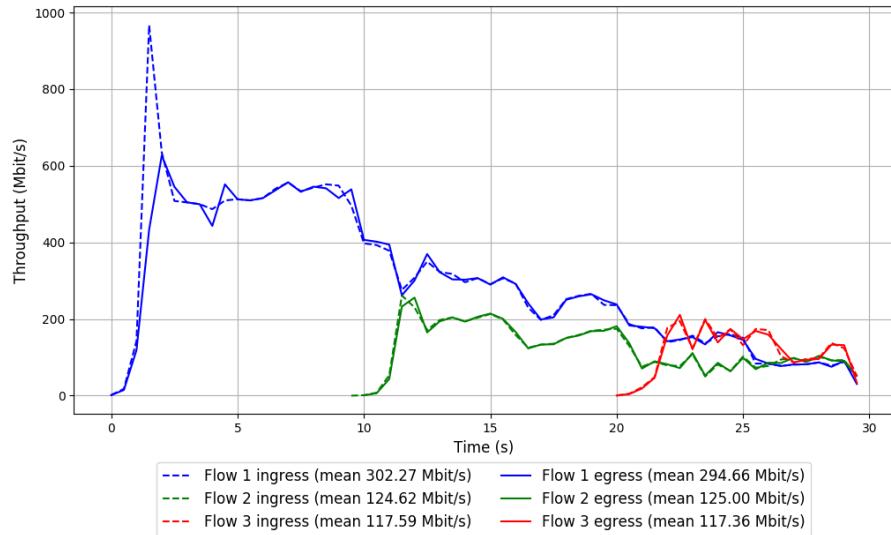
Run 4: Statistics of PCC

Start at: 2017-09-08 04:59:15

End at: 2017-09-08 04:59:45

```
# Below is generated by plot.py at 2017-09-08 10:00:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 415.39 Mbit/s
95th percentile per-packet one-way delay: 99.742 ms
Loss rate: 2.15%
-- Flow 1:
Average throughput: 294.66 Mbit/s
95th percentile per-packet one-way delay: 108.897 ms
Loss rate: 2.80%
-- Flow 2:
Average throughput: 125.00 Mbit/s
95th percentile per-packet one-way delay: 56.350 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 117.36 Mbit/s
95th percentile per-packet one-way delay: 53.636 ms
Loss rate: 1.12%
```

Run 4: Report of PCC — Data Link



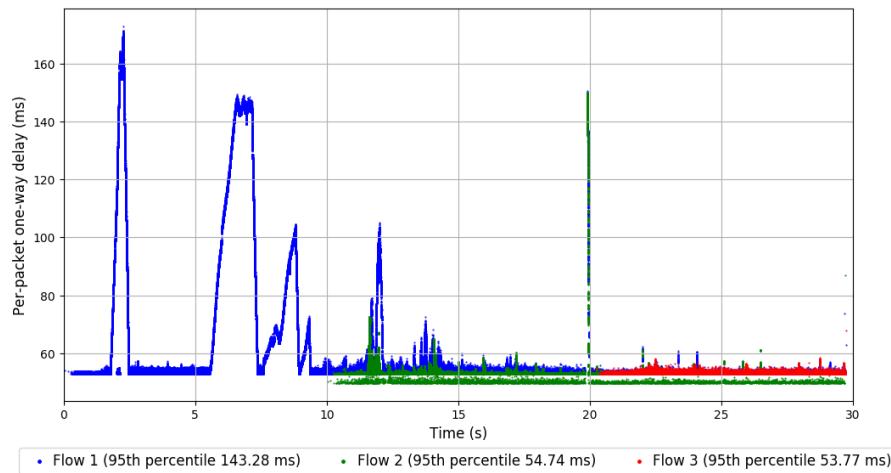
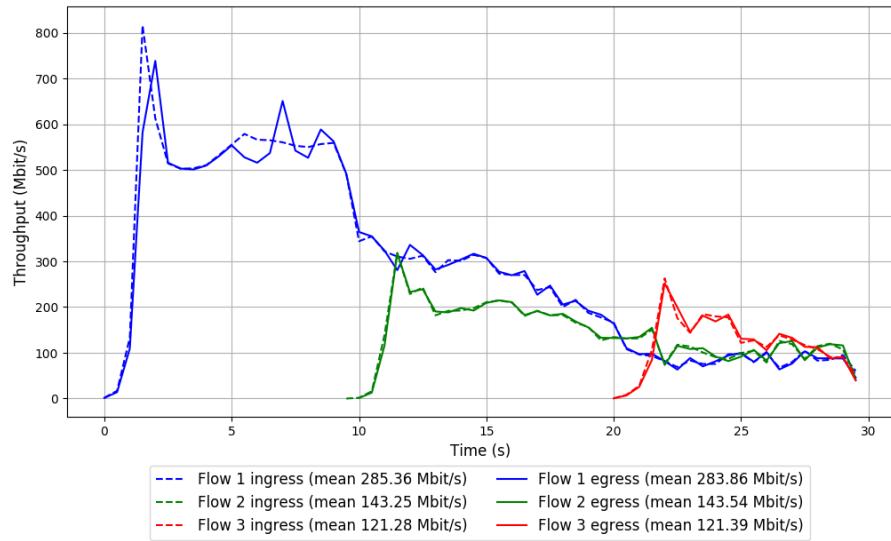
Run 5: Statistics of PCC

Start at: 2017-09-08 05:11:39

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

```
# Below is generated by plot.py at 2017-09-08 10:01:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 418.30 Mbit/s
95th percentile per-packet one-way delay: 129.600 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 283.86 Mbit/s
95th percentile per-packet one-way delay: 143.275 ms
Loss rate: 0.86%
-- Flow 2:
Average throughput: 143.54 Mbit/s
95th percentile per-packet one-way delay: 54.740 ms
Loss rate: 0.32%
-- Flow 3:
Average throughput: 121.39 Mbit/s
95th percentile per-packet one-way delay: 53.774 ms
Loss rate: 0.90%
```

Run 5: Report of PCC — Data Link



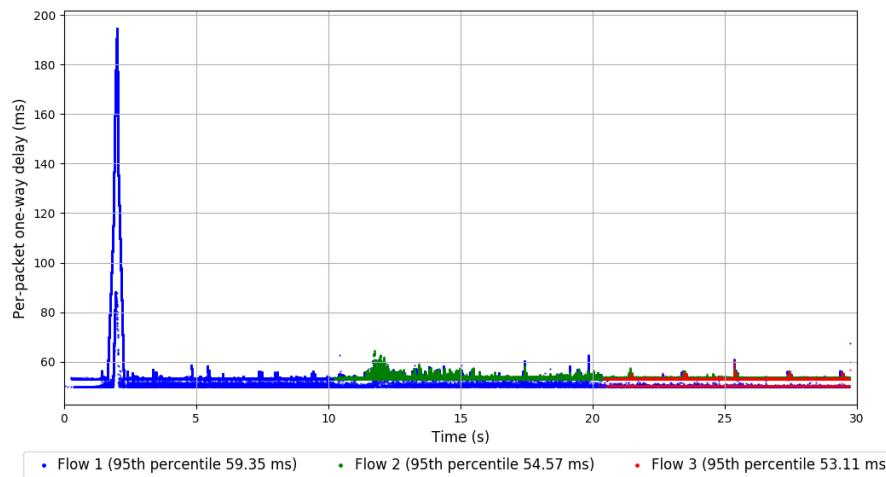
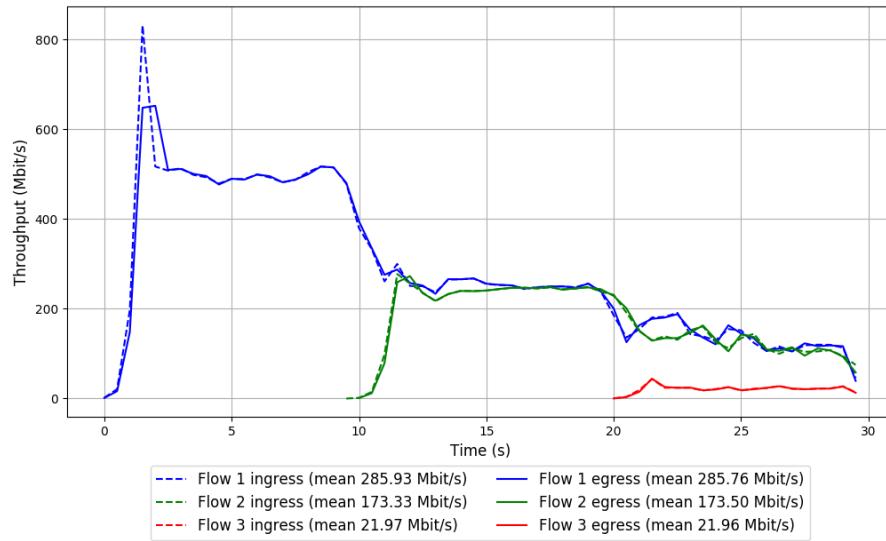
Run 6: Statistics of PCC

Start at: 2017-09-08 05:23:50

End at: 2017-09-08 05:24:20

```
# Below is generated by plot.py at 2017-09-08 10:01:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 408.00 Mbit/s
95th percentile per-packet one-way delay: 56.228 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 285.76 Mbit/s
95th percentile per-packet one-way delay: 59.354 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 173.50 Mbit/s
95th percentile per-packet one-way delay: 54.566 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 21.96 Mbit/s
95th percentile per-packet one-way delay: 53.106 ms
Loss rate: 1.05%
```

Run 6: Report of PCC — Data Link



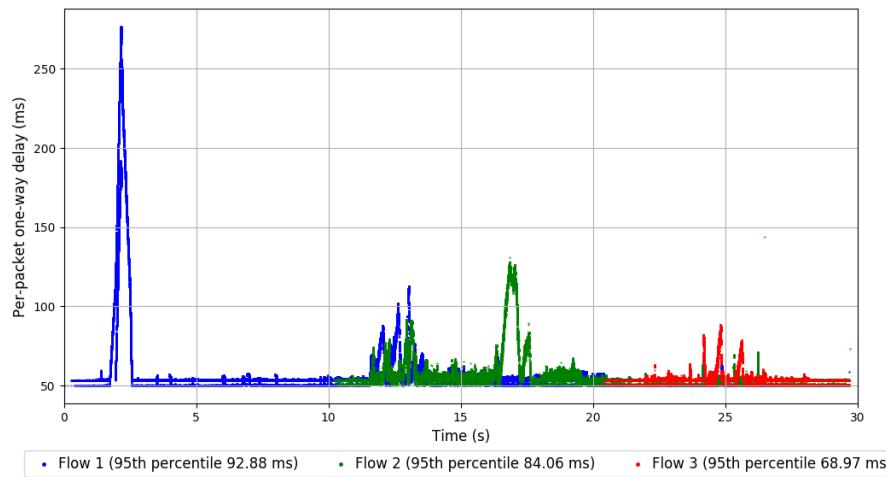
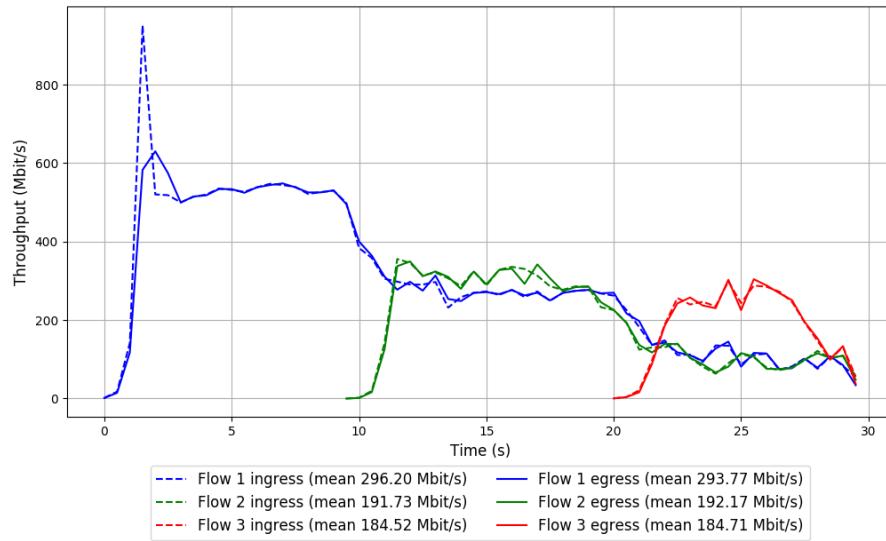
Run 7: Statistics of PCC

Start at: 2017-09-08 05:36:23

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

```
# Below is generated by plot.py at 2017-09-08 10:03:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 480.67 Mbit/s
95th percentile per-packet one-way delay: 83.652 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 293.77 Mbit/s
95th percentile per-packet one-way delay: 92.876 ms
Loss rate: 1.15%
-- Flow 2:
Average throughput: 192.17 Mbit/s
95th percentile per-packet one-way delay: 84.055 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 184.71 Mbit/s
95th percentile per-packet one-way delay: 68.969 ms
Loss rate: 0.80%
```

Run 7: Report of PCC — Data Link



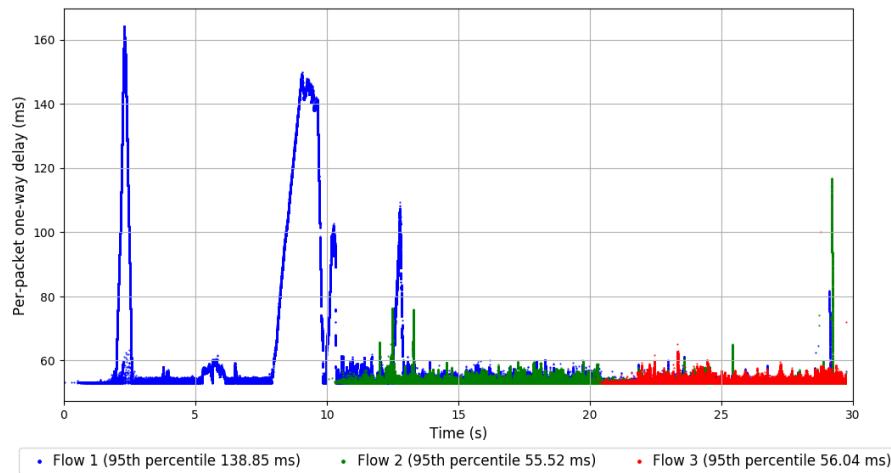
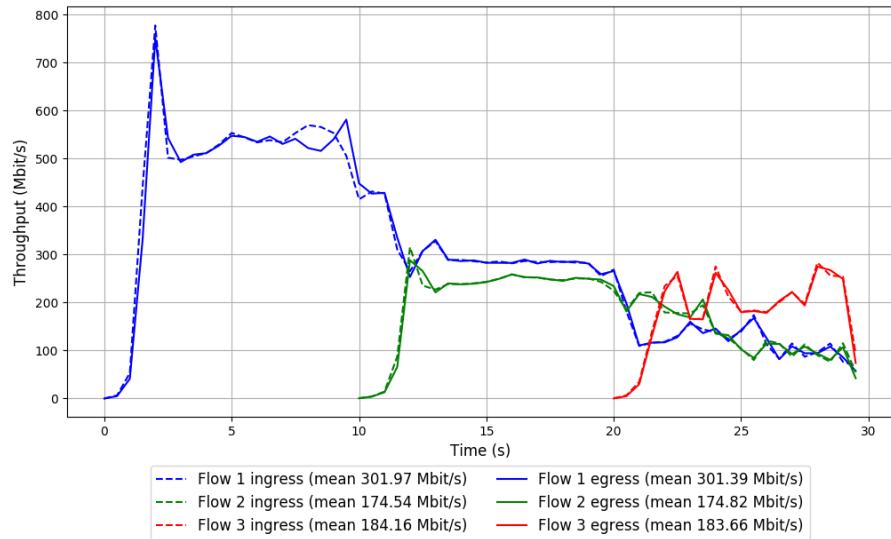
Run 8: Statistics of PCC

Start at: 2017-09-08 05:48:29

End at: 2017-09-08 05:48:59

```
# Below is generated by plot.py at 2017-09-08 10:03:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 475.82 Mbit/s
95th percentile per-packet one-way delay: 117.708 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 301.39 Mbit/s
95th percentile per-packet one-way delay: 138.847 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 174.82 Mbit/s
95th percentile per-packet one-way delay: 55.515 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 183.66 Mbit/s
95th percentile per-packet one-way delay: 56.043 ms
Loss rate: 1.26%
```

Run 8: Report of PCC — Data Link



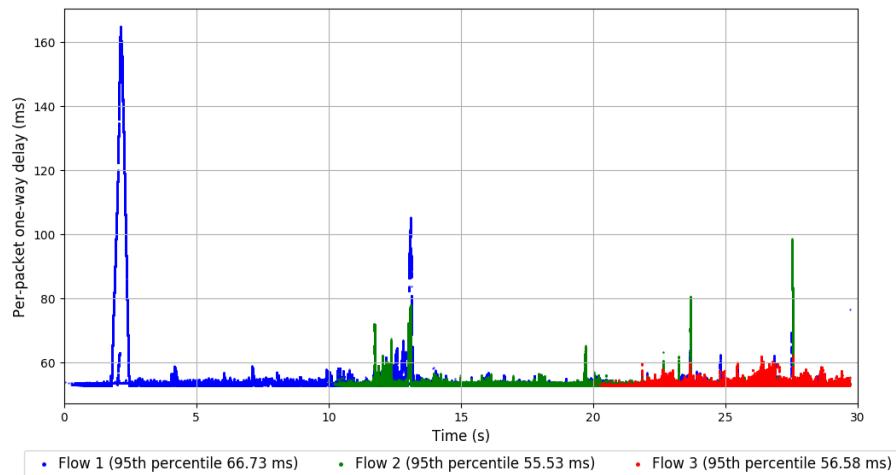
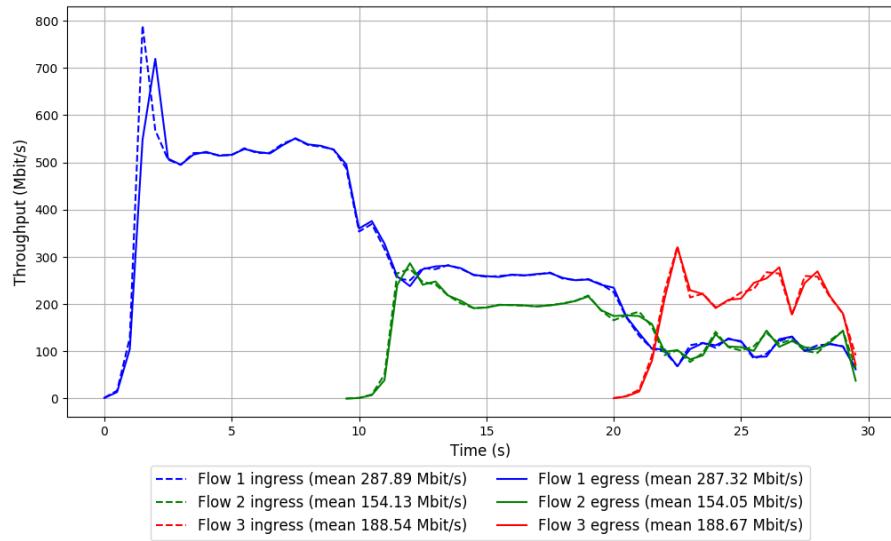
Run 9: Statistics of PCC

Start at: 2017-09-08 06:00:47

End at: 2017-09-08 06:01:17

```
# Below is generated by plot.py at 2017-09-08 10:04:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 450.90 Mbit/s
95th percentile per-packet one-way delay: 58.454 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 287.32 Mbit/s
95th percentile per-packet one-way delay: 66.735 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 154.05 Mbit/s
95th percentile per-packet one-way delay: 55.532 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 188.67 Mbit/s
95th percentile per-packet one-way delay: 56.578 ms
Loss rate: 1.04%
```

Run 9: Report of PCC — Data Link



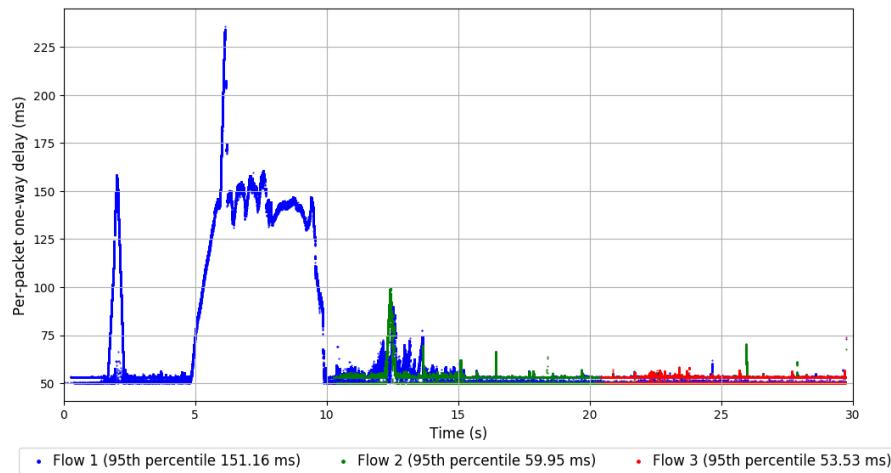
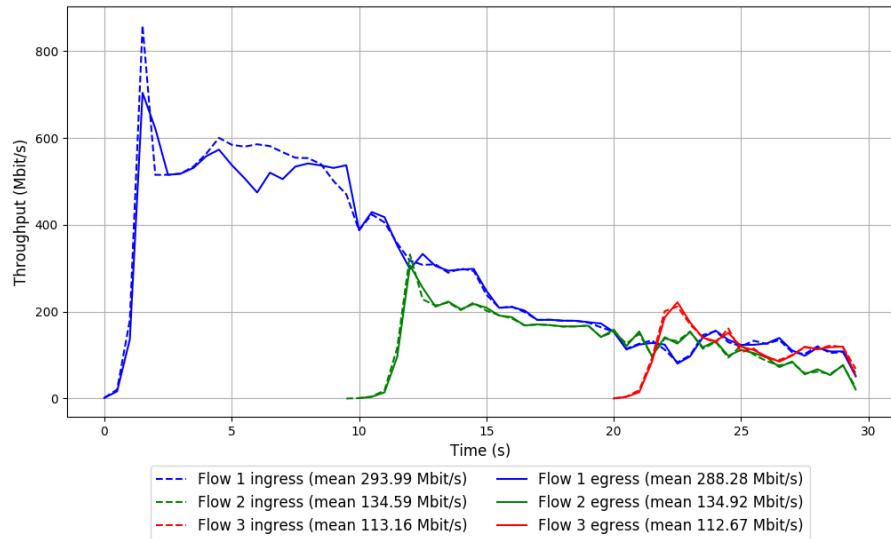
Run 10: Statistics of PCC

Start at: 2017-09-08 06:13:12

End at: 2017-09-08 06:13:42

```
# Below is generated by plot.py at 2017-09-08 10:04:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 413.98 Mbit/s
95th percentile per-packet one-way delay: 148.007 ms
Loss rate: 1.72%
-- Flow 1:
Average throughput: 288.28 Mbit/s
95th percentile per-packet one-way delay: 151.158 ms
Loss rate: 2.22%
-- Flow 2:
Average throughput: 134.92 Mbit/s
95th percentile per-packet one-way delay: 59.953 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 112.67 Mbit/s
95th percentile per-packet one-way delay: 53.529 ms
Loss rate: 1.33%
```

Run 10: Report of PCC — Data Link

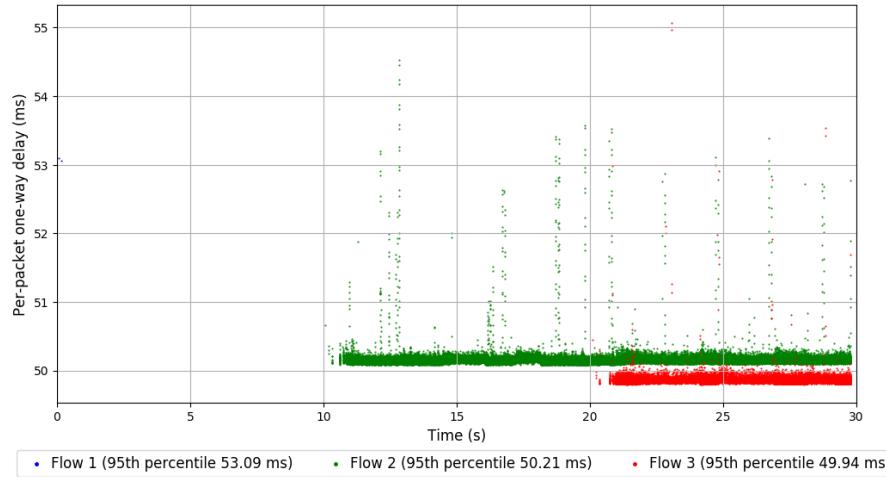
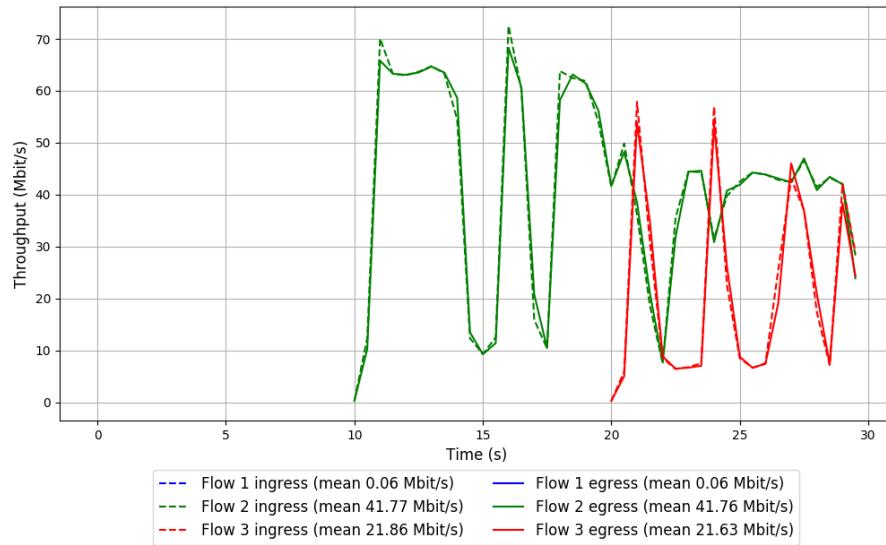


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-09-08 04:17:35
End at: 2017-09-08 04:18:05

# Below is generated by plot.py at 2017-09-08 10:04:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 34.75 Mbit/s
95th percentile per-packet one-way delay: 50.205 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 53.095 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 41.76 Mbit/s
95th percentile per-packet one-way delay: 50.212 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 21.63 Mbit/s
95th percentile per-packet one-way delay: 49.942 ms
Loss rate: 2.05%
```

Run 1: Report of QUIC Cubic — Data Link



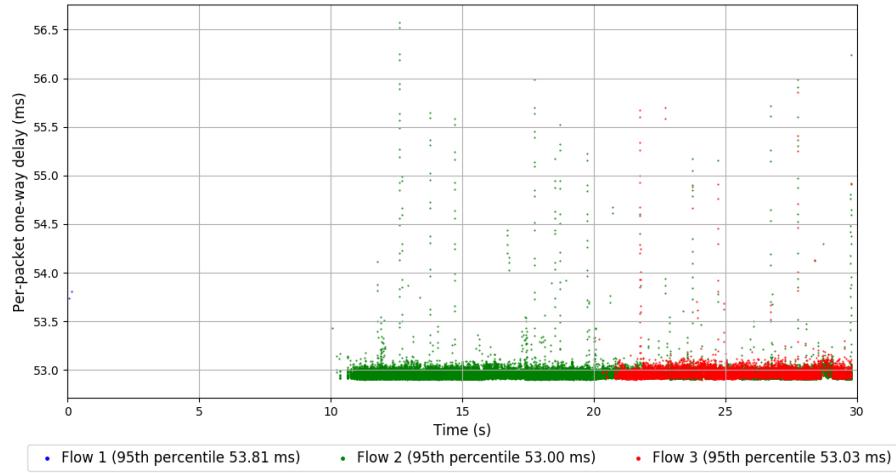
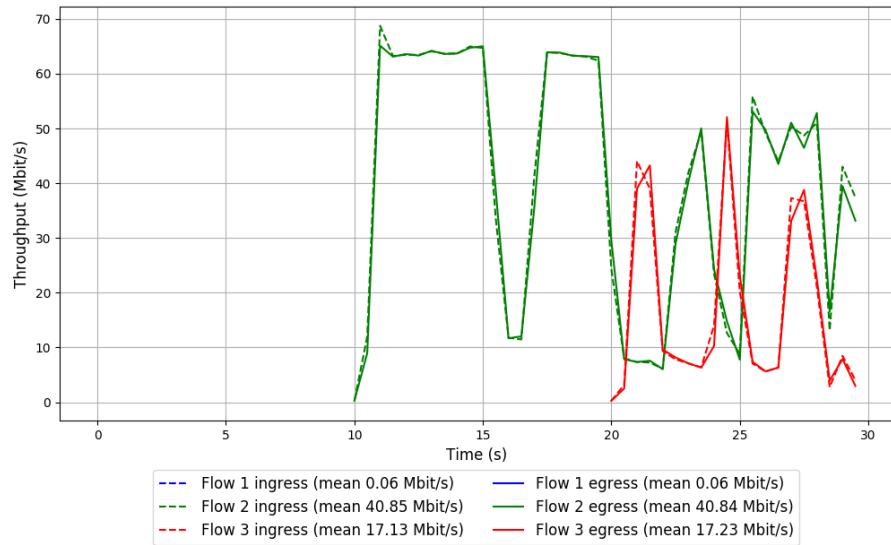
Run 2: Statistics of QUIC Cubic

Start at: 2017-09-08 04:30:07

End at: 2017-09-08 04:30:37

```
# Below is generated by plot.py at 2017-09-08 10:05:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 32.65 Mbit/s
95th percentile per-packet one-way delay: 53.003 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 53.806 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 40.84 Mbit/s
95th percentile per-packet one-way delay: 52.997 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 17.23 Mbit/s
95th percentile per-packet one-way delay: 53.028 ms
Loss rate: 0.52%
```

Run 2: Report of QUIC Cubic — Data Link



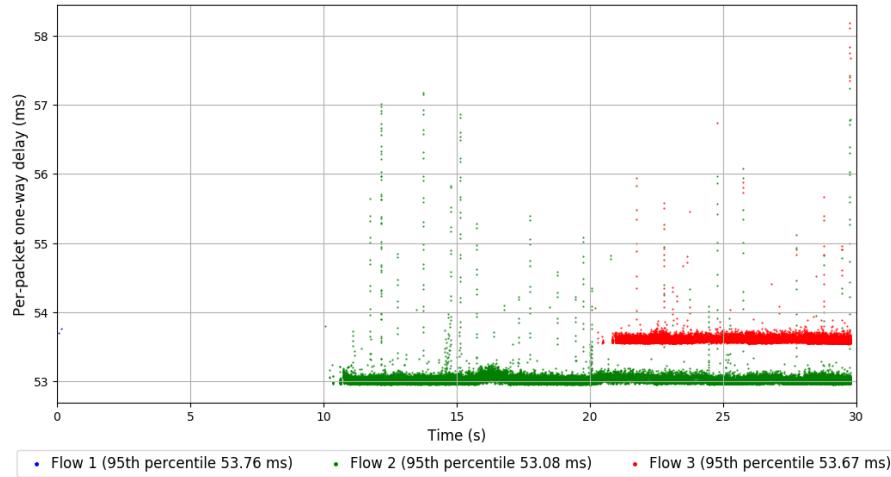
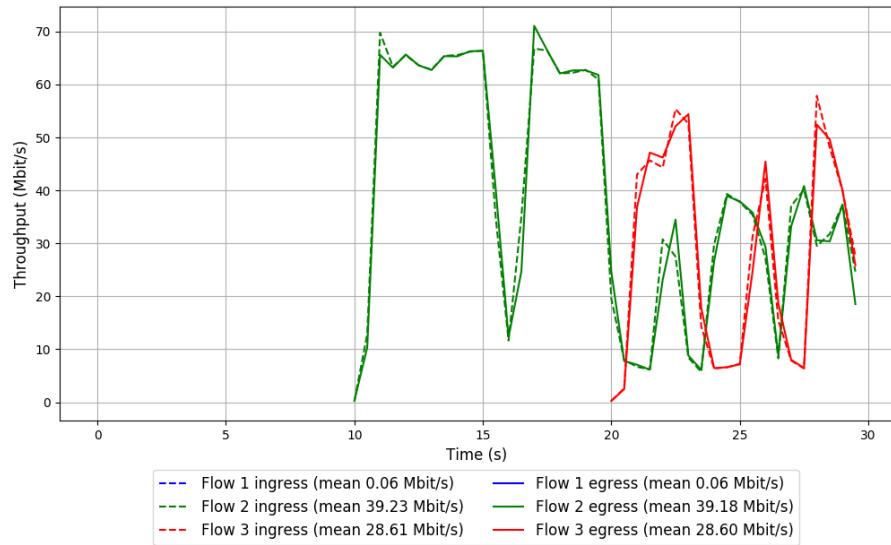
Run 3: Statistics of QUIC Cubic

Start at: 2017-09-08 04:42:26

End at: 2017-09-08 04:42:56

```
# Below is generated by plot.py at 2017-09-08 10:05:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 35.21 Mbit/s
95th percentile per-packet one-way delay: 53.627 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 53.762 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.18 Mbit/s
95th percentile per-packet one-way delay: 53.080 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 28.60 Mbit/s
95th percentile per-packet one-way delay: 53.666 ms
Loss rate: 1.13%
```

Run 3: Report of QUIC Cubic — Data Link



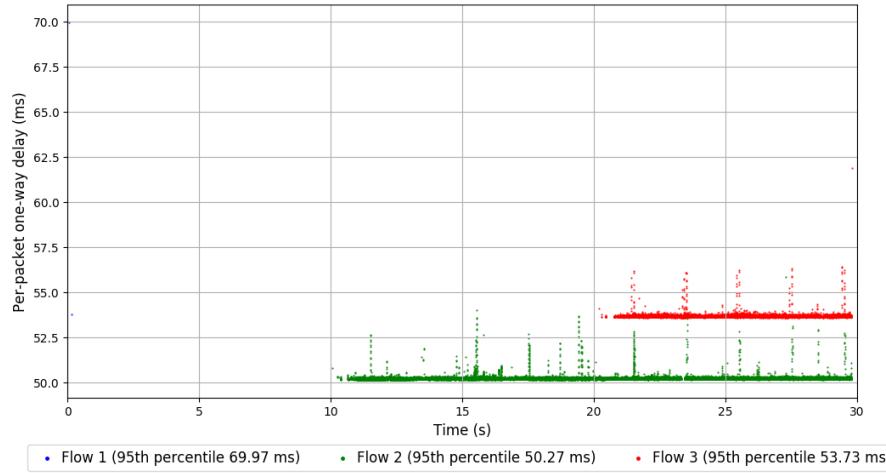
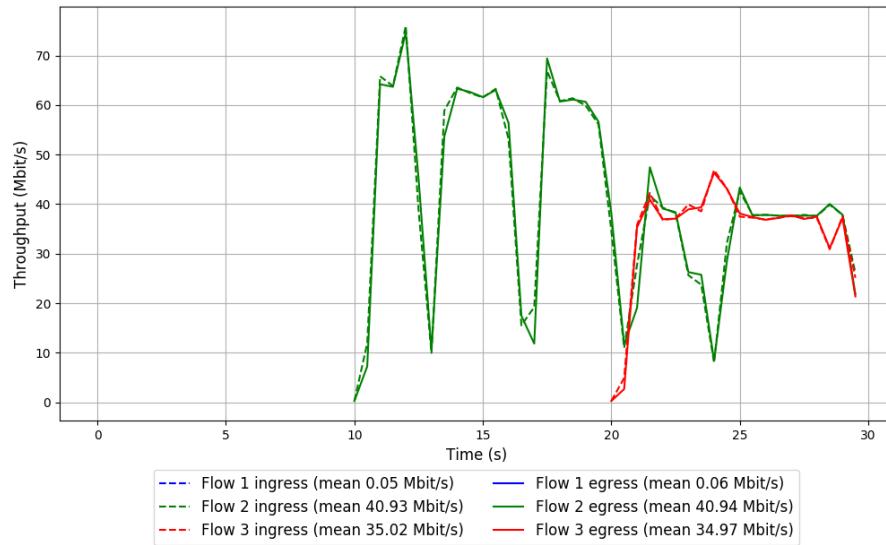
Run 4: Statistics of QUIC Cubic

Start at: 2017-09-08 04:54:46

End at: 2017-09-08 04:55:16

```
# Below is generated by plot.py at 2017-09-08 10:05:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 38.49 Mbit/s
95th percentile per-packet one-way delay: 53.683 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 69.967 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 40.94 Mbit/s
95th percentile per-packet one-way delay: 50.270 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 34.97 Mbit/s
95th percentile per-packet one-way delay: 53.725 ms
Loss rate: 1.15%
```

Run 4: Report of QUIC Cubic — Data Link



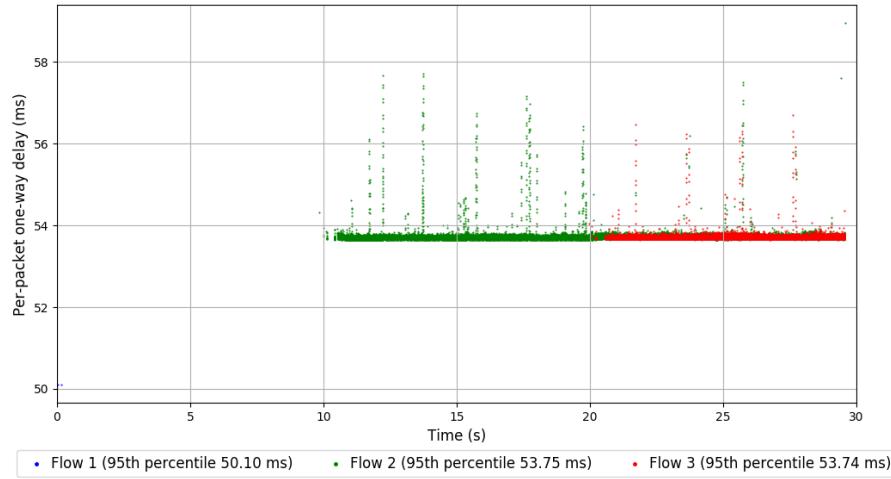
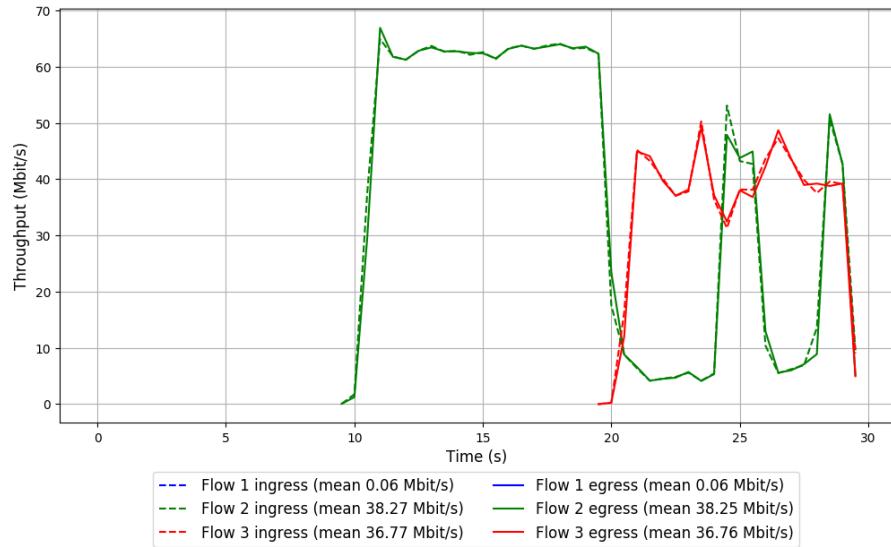
Run 5: Statistics of QUIC Cubic

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

End at: 2017-09-08 05:07:37

```
# Below is generated by plot.py at 2017-09-08 10:05:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 37.53 Mbit/s
95th percentile per-packet one-way delay: 53.744 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 50.096 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 38.25 Mbit/s
95th percentile per-packet one-way delay: 53.746 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 36.76 Mbit/s
95th percentile per-packet one-way delay: 53.741 ms
Loss rate: 1.15%
```

Run 5: Report of QUIC Cubic — Data Link



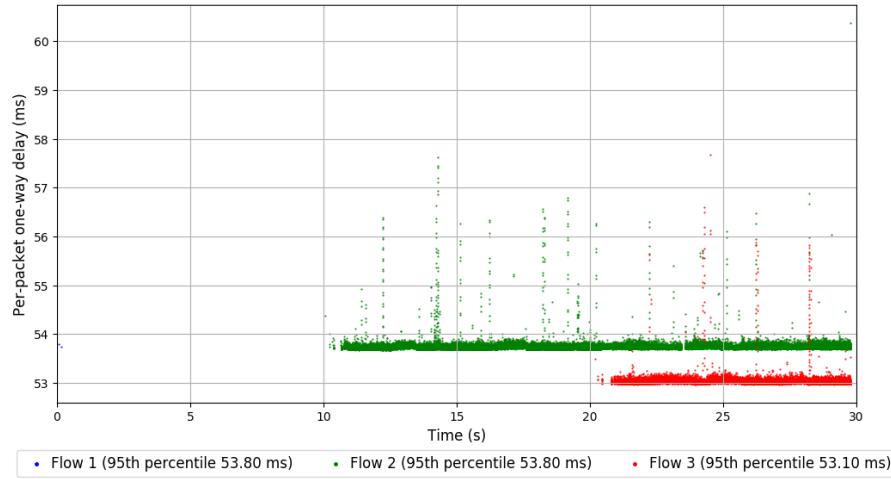
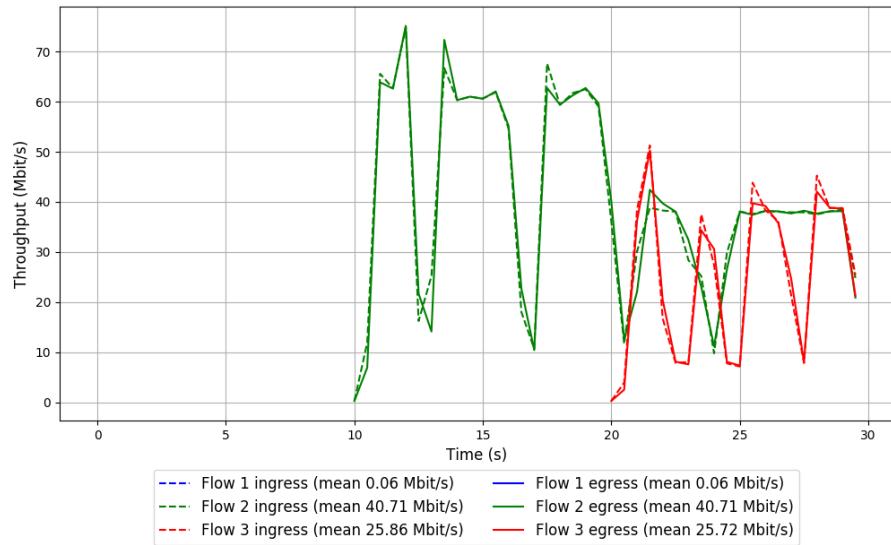
Run 6: Statistics of QUIC Cubic

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

End at: 2017-09-08 05:19:49

```
# Below is generated by plot.py at 2017-09-08 10:05:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 35.31 Mbit/s
95th percentile per-packet one-way delay: 53.790 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 53.802 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 40.71 Mbit/s
95th percentile per-packet one-way delay: 53.799 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 25.72 Mbit/s
95th percentile per-packet one-way delay: 53.103 ms
Loss rate: 1.65%
```

Run 6: Report of QUIC Cubic — Data Link

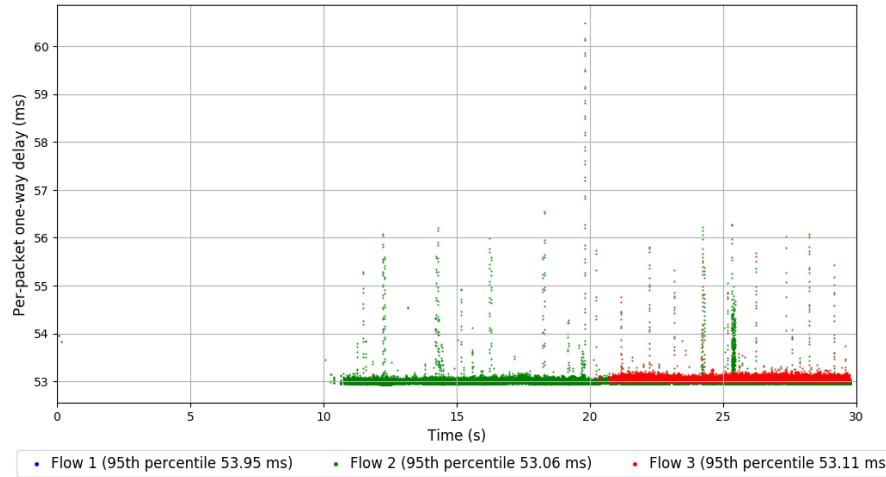
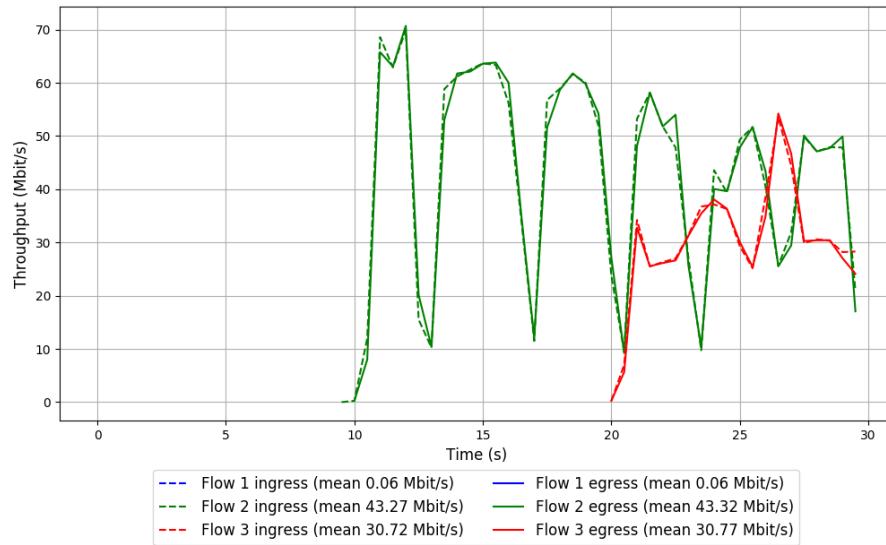


```
Run 7: Statistics of QUIC Cubic

Start at: 2017-09-08 05:31:41
End at: 2017-09-08 05:32:11

# Below is generated by plot.py at 2017-09-08 10:05:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 38.70 Mbit/s
95th percentile per-packet one-way delay: 53.083 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 53.950 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 43.32 Mbit/s
95th percentile per-packet one-way delay: 53.058 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 30.77 Mbit/s
95th percentile per-packet one-way delay: 53.113 ms
Loss rate: 1.40%
```

Run 7: Report of QUIC Cubic — Data Link



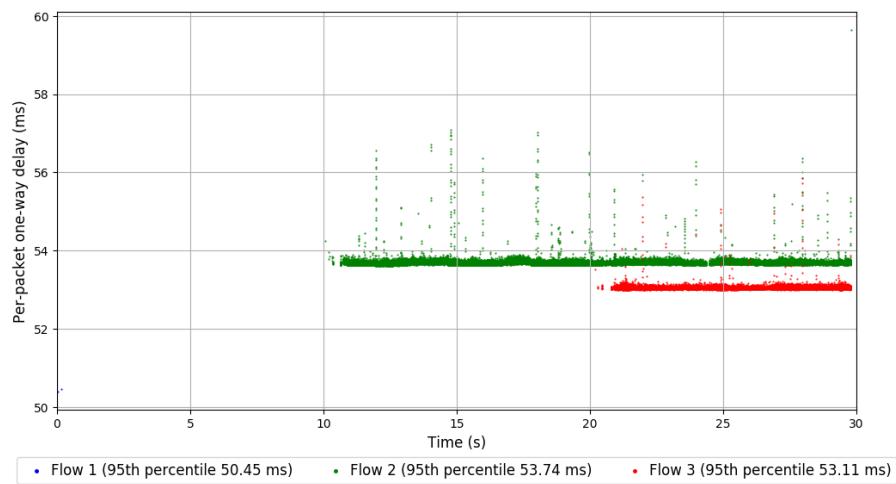
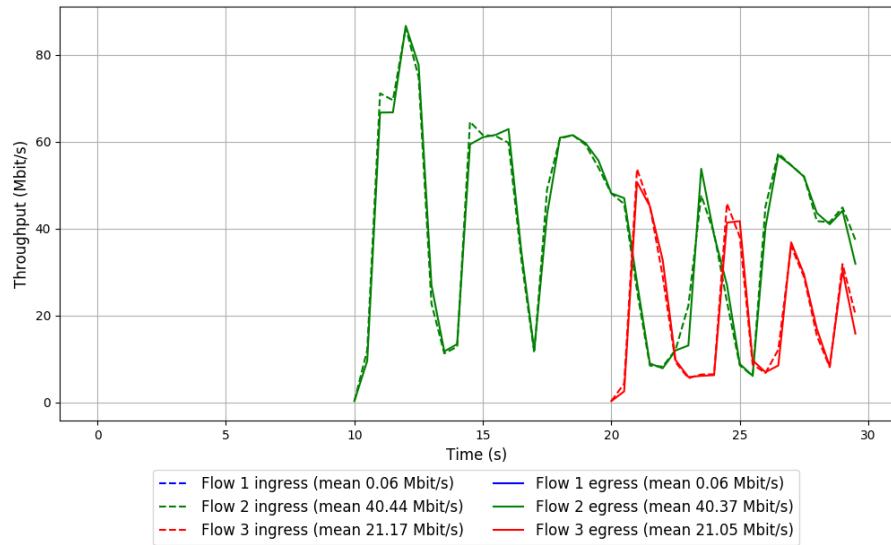
Run 8: Statistics of QUIC Cubic

Start at: 2017-09-08 05:44:03

End at: 2017-09-08 05:44:33

```
# Below is generated by plot.py at 2017-09-08 10:05:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 33.58 Mbit/s
95th percentile per-packet one-way delay: 53.736 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 50.451 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 40.37 Mbit/s
95th percentile per-packet one-way delay: 53.744 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 21.05 Mbit/s
95th percentile per-packet one-way delay: 53.109 ms
Loss rate: 1.68%
```

Run 8: Report of QUIC Cubic — Data Link



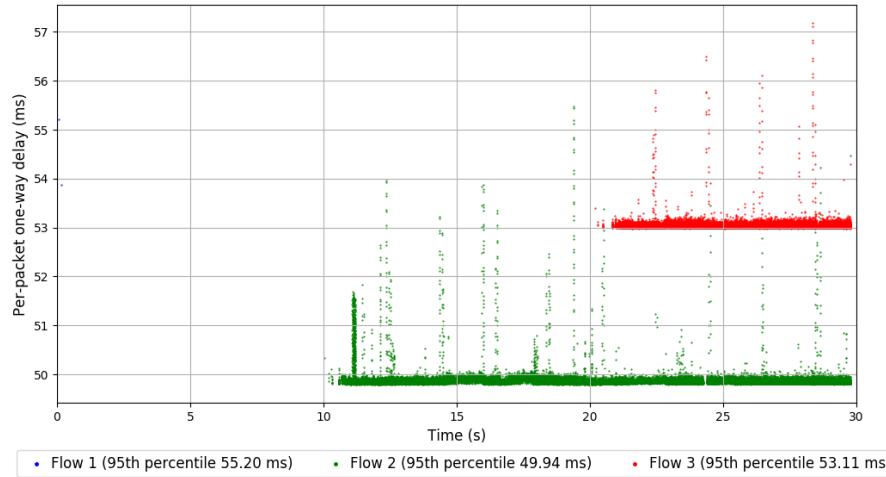
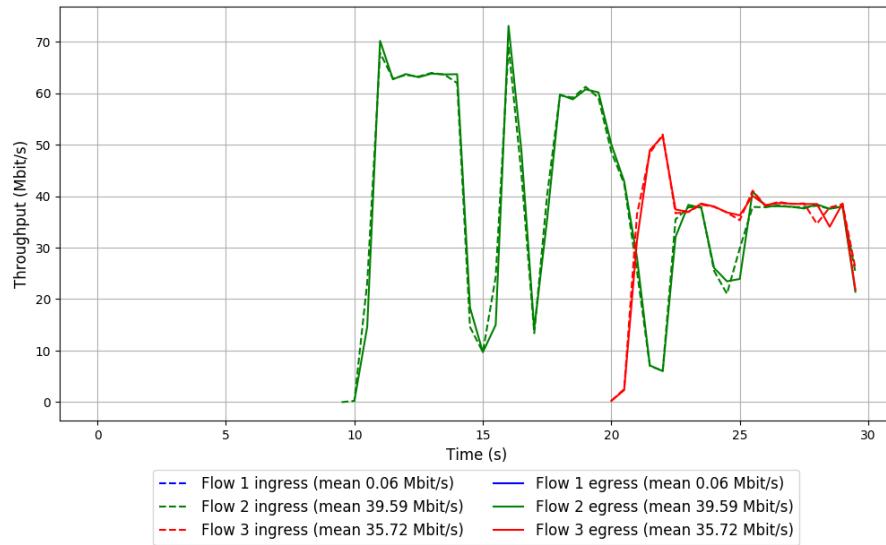
Run 9: Statistics of QUIC Cubic

Start at: 2017-09-08 05:56:15

End at: 2017-09-08 05:56:45

```
# Below is generated by plot.py at 2017-09-08 10:05:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 37.81 Mbit/s
95th percentile per-packet one-way delay: 53.064 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 55.201 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.59 Mbit/s
95th percentile per-packet one-way delay: 49.940 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 35.72 Mbit/s
95th percentile per-packet one-way delay: 53.106 ms
Loss rate: 1.17%
```

Run 9: Report of QUIC Cubic — Data Link



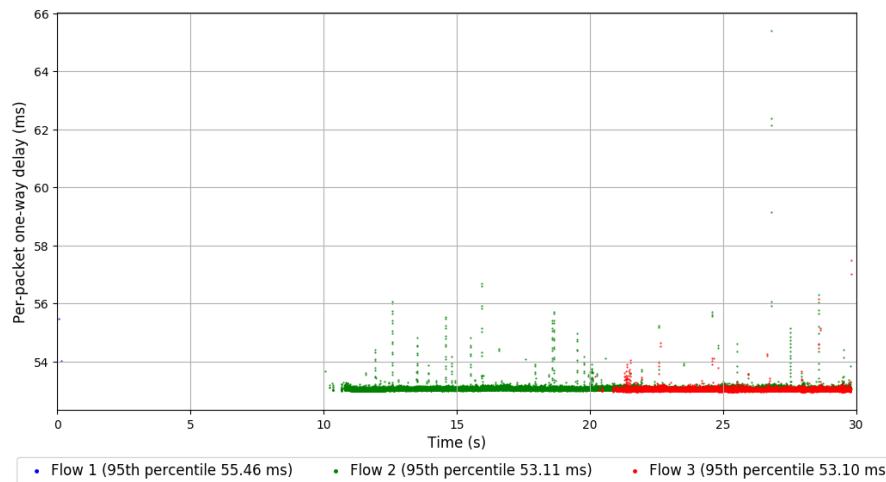
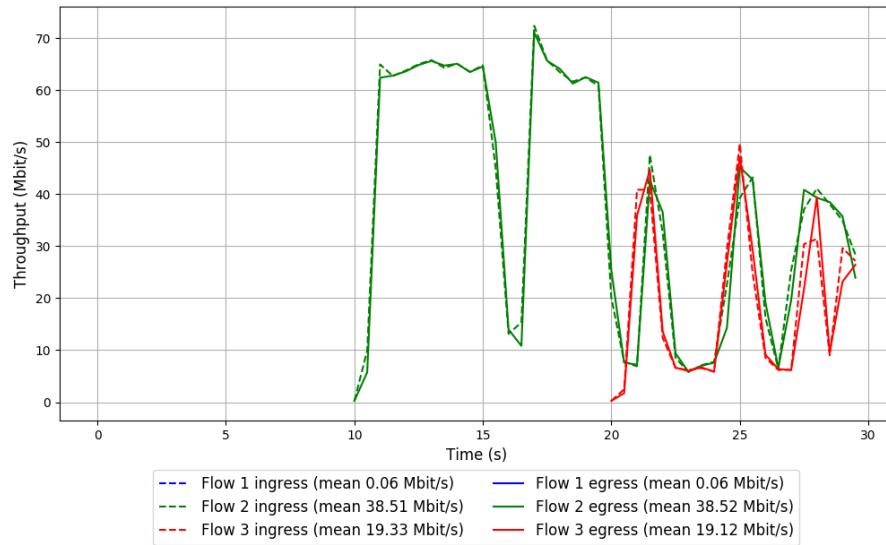
Run 10: Statistics of QUIC Cubic

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

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

```
# Below is generated by plot.py at 2017-09-08 10:05:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 31.71 Mbit/s
95th percentile per-packet one-way delay: 53.109 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 55.461 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 38.52 Mbit/s
95th percentile per-packet one-way delay: 53.112 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 19.12 Mbit/s
95th percentile per-packet one-way delay: 53.098 ms
Loss rate: 2.11%
```

Run 10: Report of QUIC Cubic — Data Link

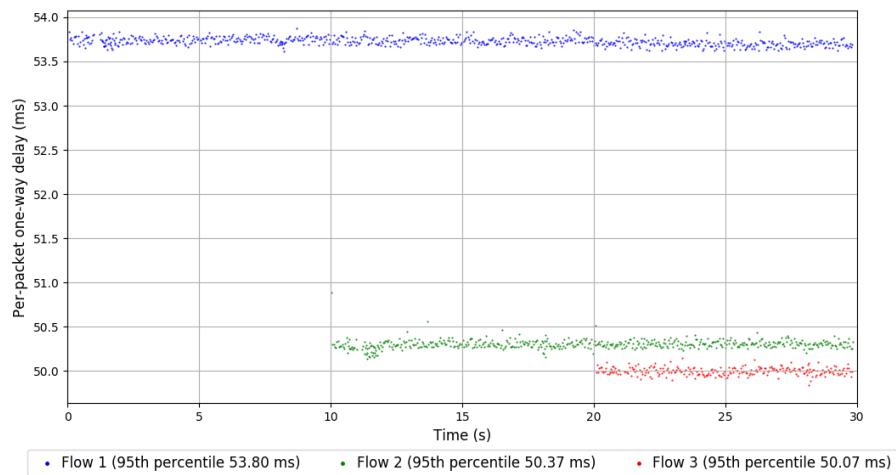
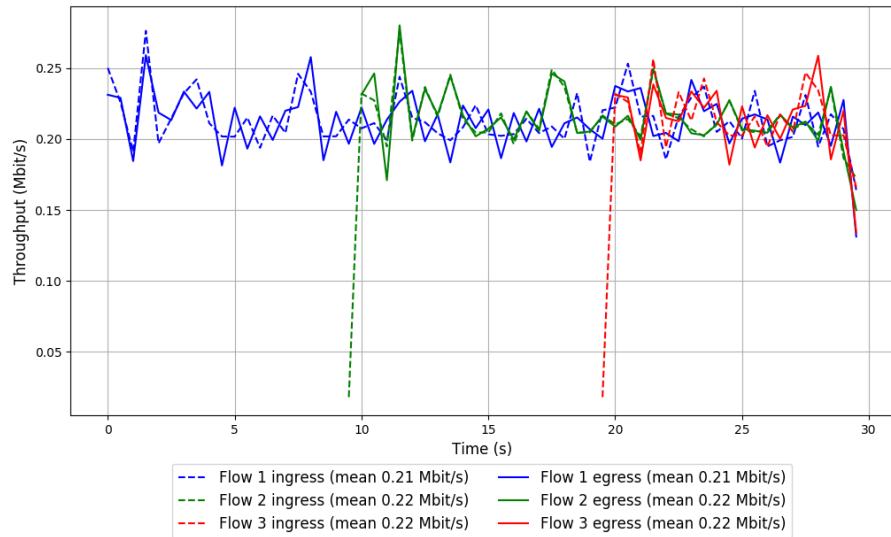


```
Run 1: Statistics of SCReAM

Start at: 2017-09-08 04:14:32
End at: 2017-09-08 04:15:02

# Below is generated by plot.py at 2017-09-08 10:05:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.784 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.800 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.369 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.071 ms
Loss rate: 1.11%
```

Run 1: Report of SCReAM — Data Link



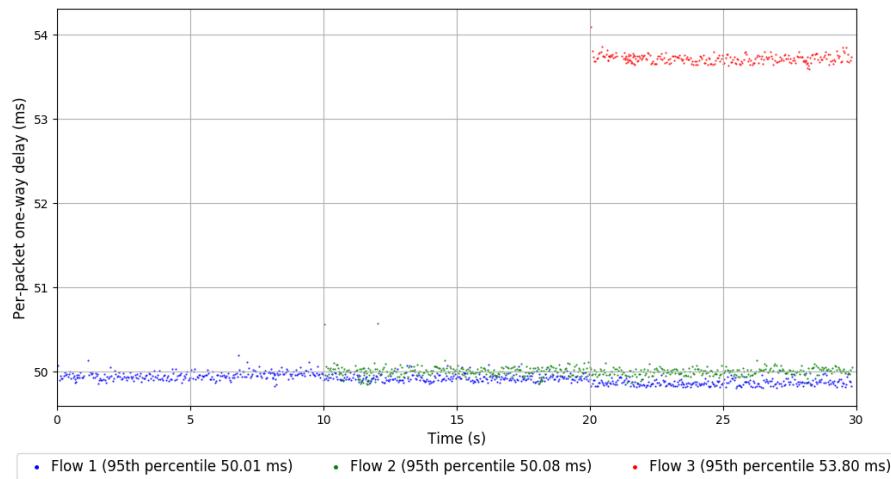
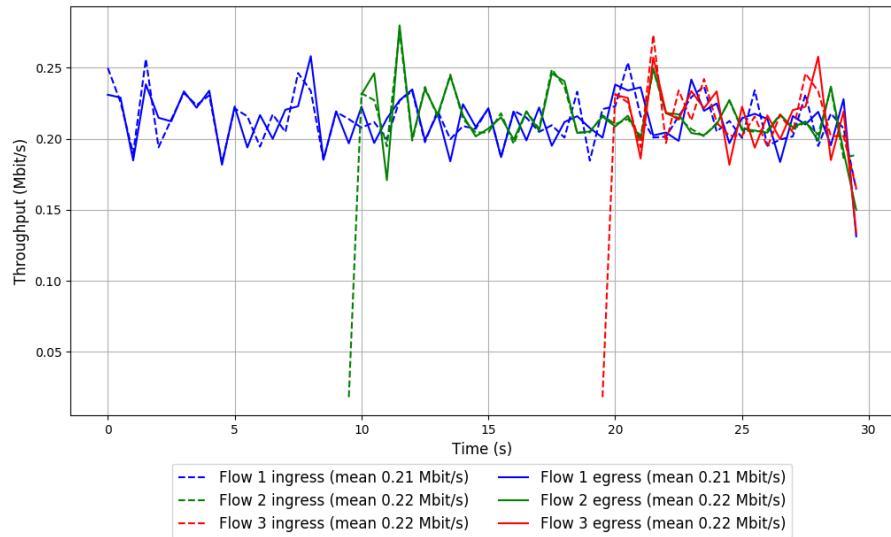
Run 2: Statistics of SCReAM

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

End at: 2017-09-08 04:27:34

```
# Below is generated by plot.py at 2017-09-08 10:05:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.744 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.010 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.075 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.797 ms
Loss rate: 1.10%
```

Run 2: Report of SCReAM — Data Link



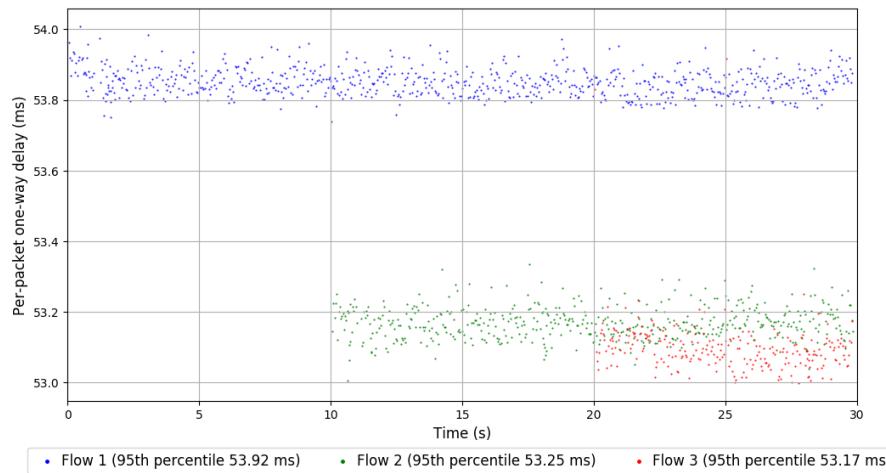
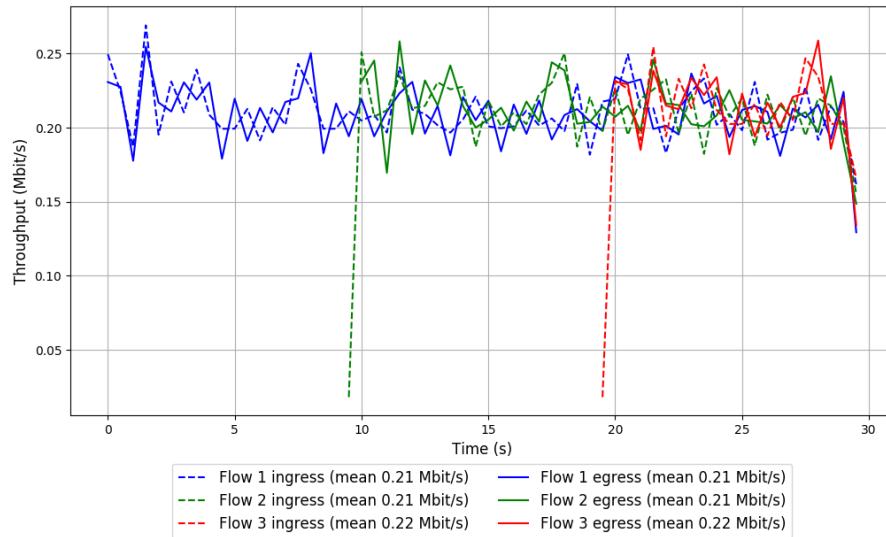
Run 3: Statistics of SCReAM

Start at: 2017-09-08 04:39:26

End at: 2017-09-08 04:39:56

```
# Below is generated by plot.py at 2017-09-08 10:05:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.904 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.920 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.249 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.173 ms
Loss rate: 1.11%
```

Run 3: Report of SCReAM — Data Link



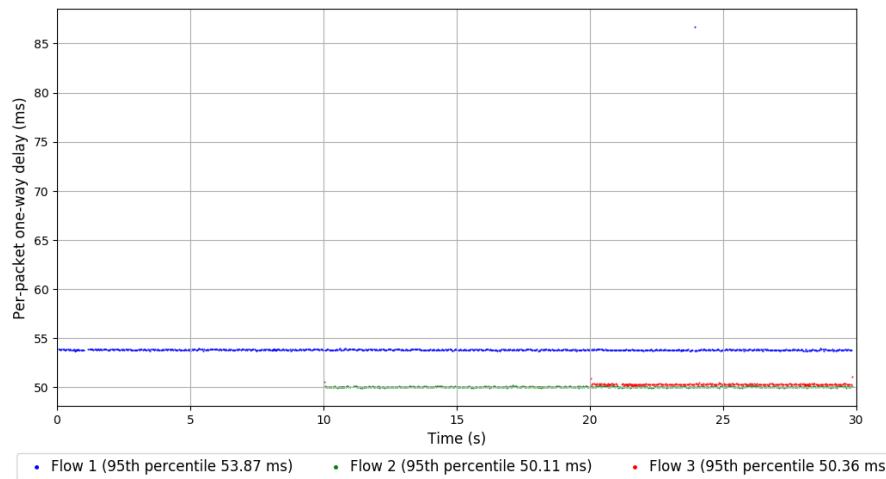
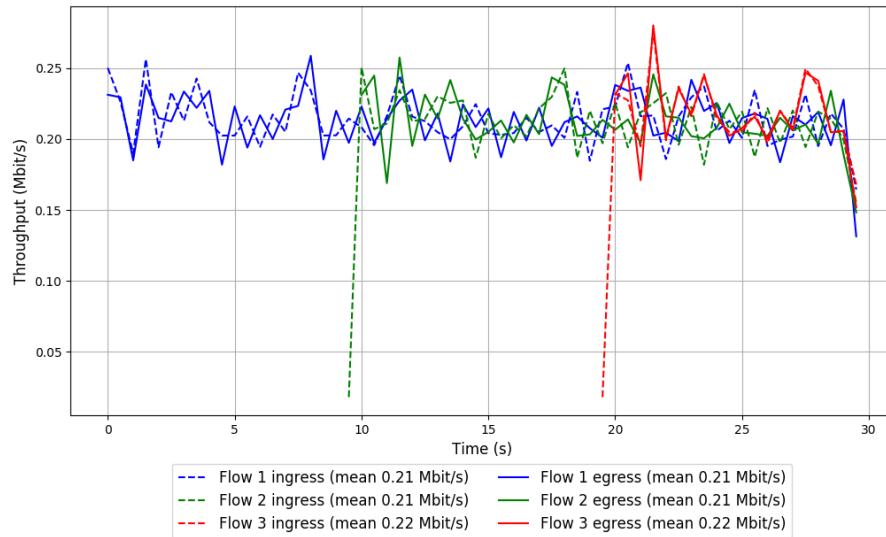
Run 4: Statistics of SCReAM

Start at: 2017-09-08 04:51:47

End at: 2017-09-08 04:52:17

```
# Below is generated by plot.py at 2017-09-08 10:05:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.854 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.872 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.111 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.364 ms
Loss rate: 0.74%
```

Run 4: Report of SCReAM — Data Link



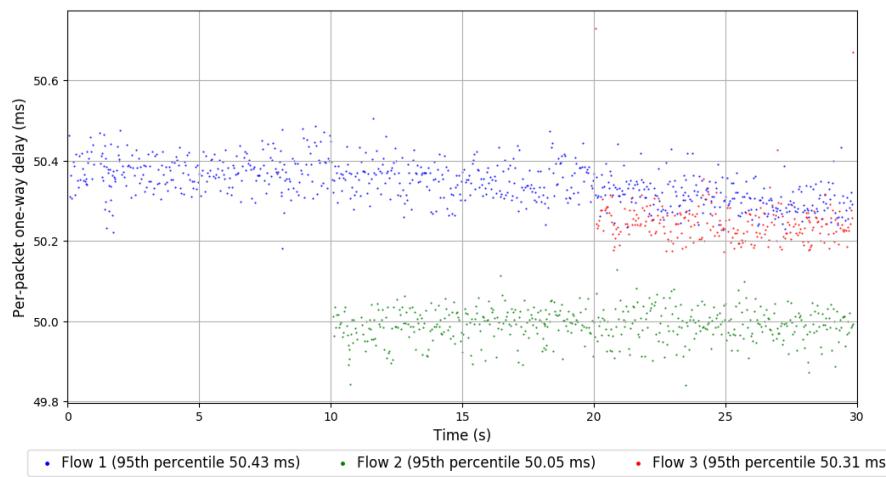
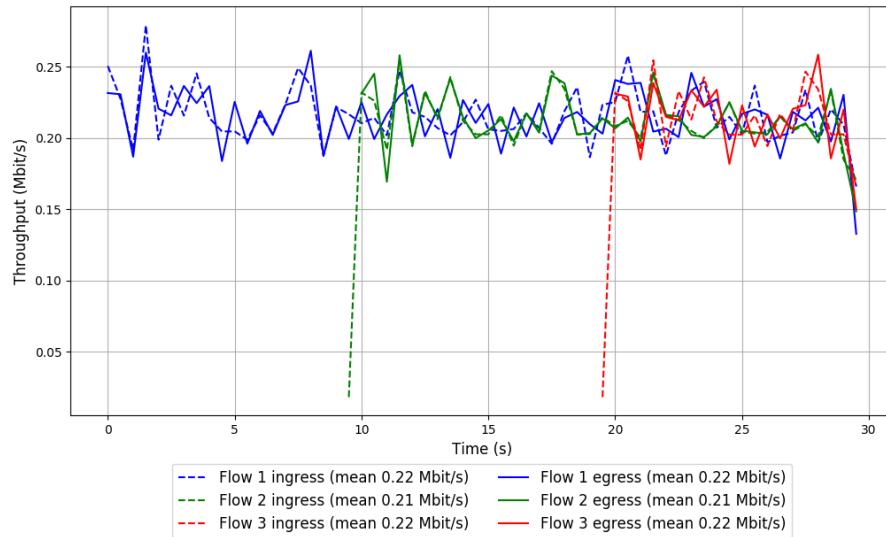
Run 5: Statistics of SCReAM

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

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

```
# Below is generated by plot.py at 2017-09-08 10:05:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.414 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.433 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.052 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.307 ms
Loss rate: 0.74%
```

Run 5: Report of SCReAM — Data Link



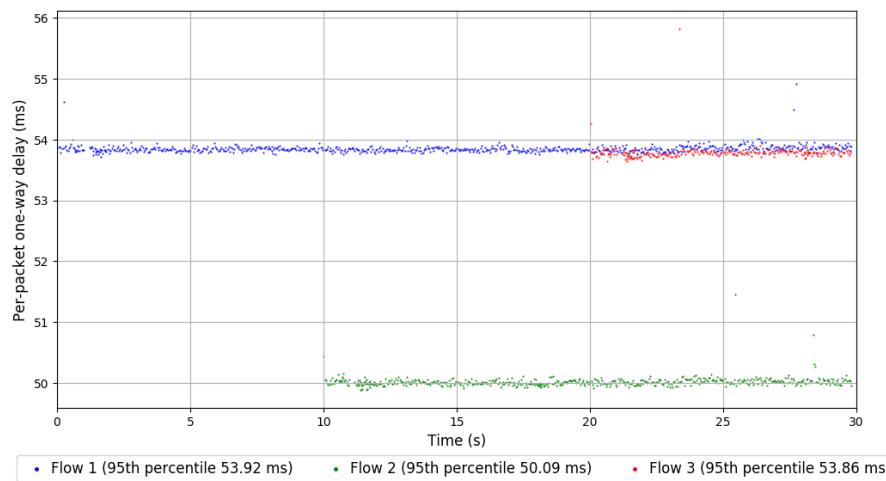
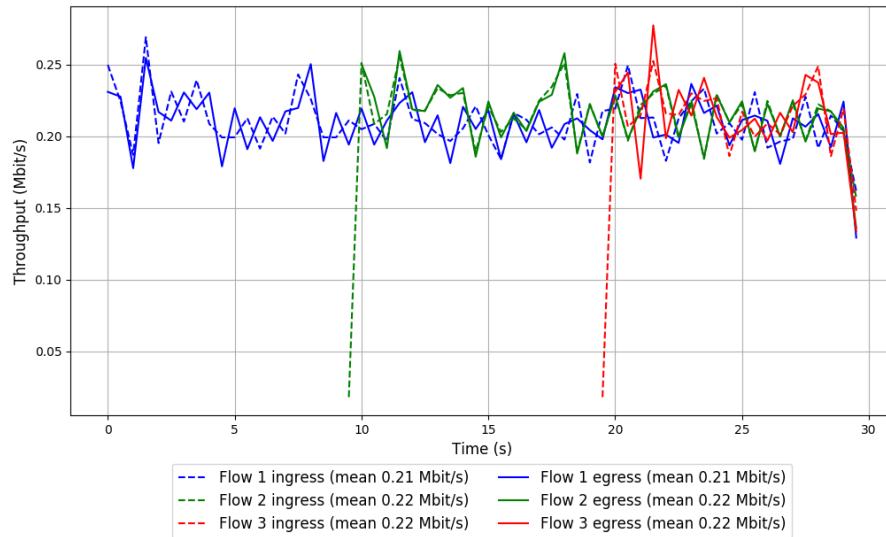
Run 6: Statistics of SCReAM

Start at: 2017-09-08 05:16:18

End at: 2017-09-08 05:16:48

```
# Below is generated by plot.py at 2017-09-08 10:05:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.899 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.920 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.089 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.858 ms
Loss rate: 1.11%
```

Run 6: Report of SCReAM — Data Link



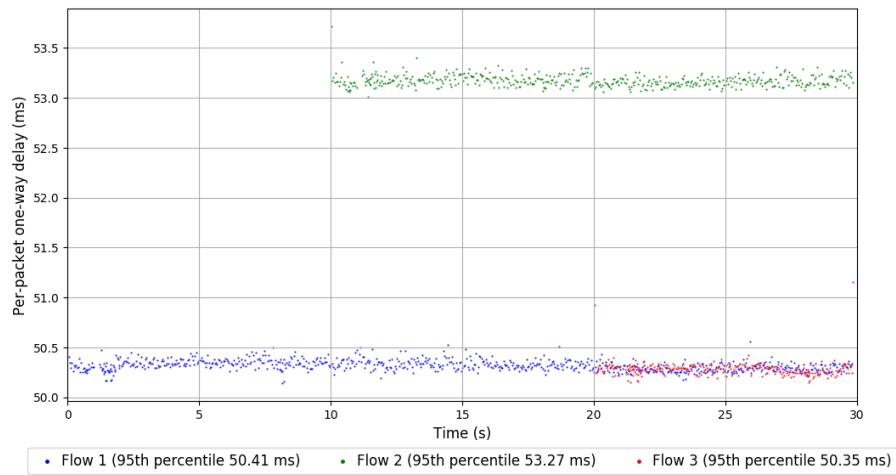
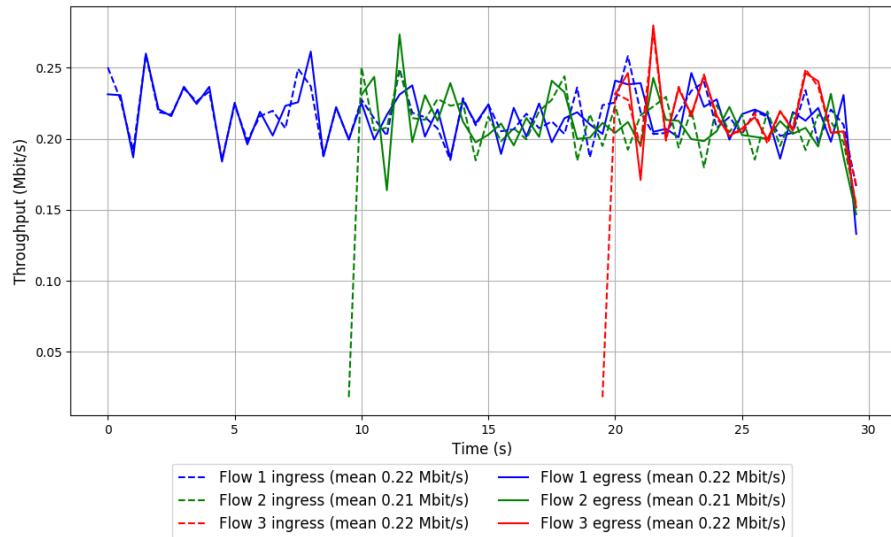
Run 7: Statistics of SCReAM

Start at: 2017-09-08 05:28:39

End at: 2017-09-08 05:29:09

```
# Below is generated by plot.py at 2017-09-08 10:05:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.232 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.411 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.265 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.347 ms
Loss rate: 0.74%
```

Run 7: Report of SCReAM — Data Link



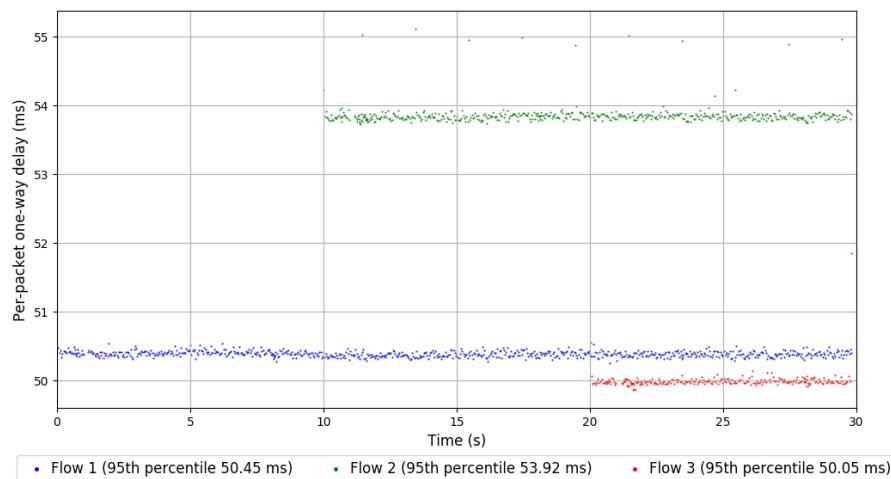
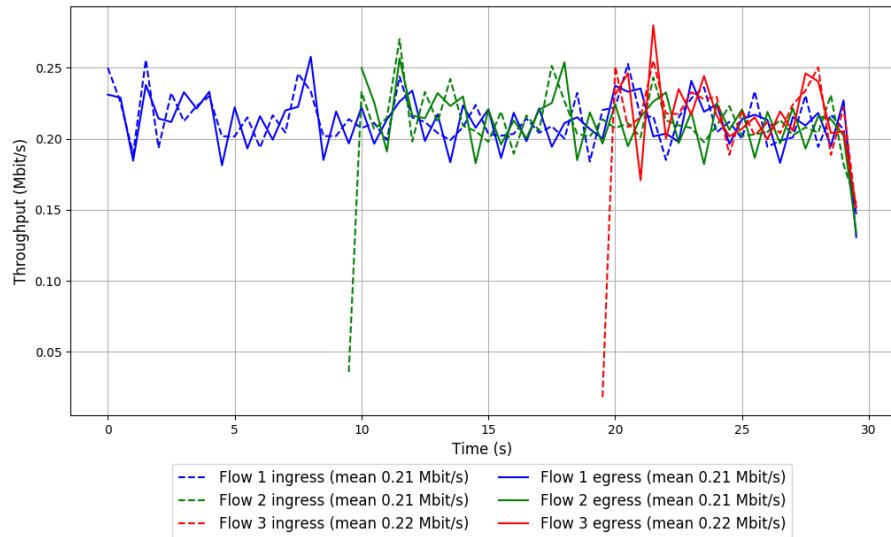
Run 8: Statistics of SCReAM

Start at: 2017-09-08 05:41:06

End at: 2017-09-08 05:41:36

```
# Below is generated by plot.py at 2017-09-08 10:05:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.880 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.455 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.922 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.054 ms
Loss rate: 0.74%
```

Run 8: Report of SCReAM — Data Link



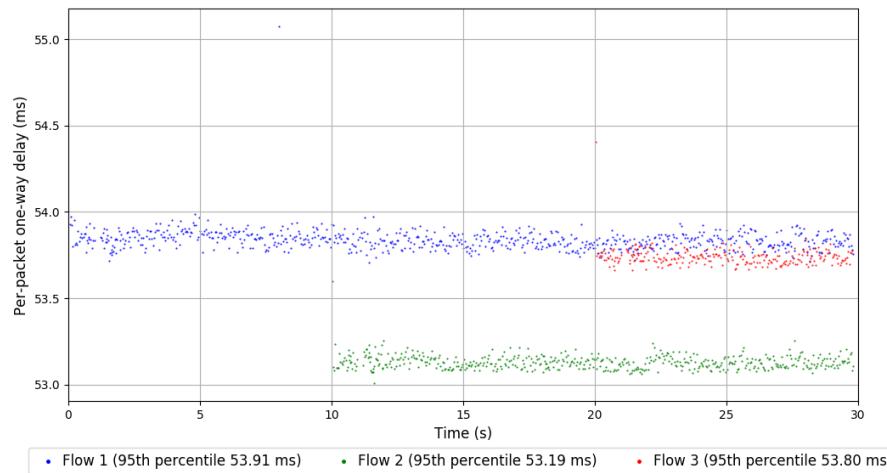
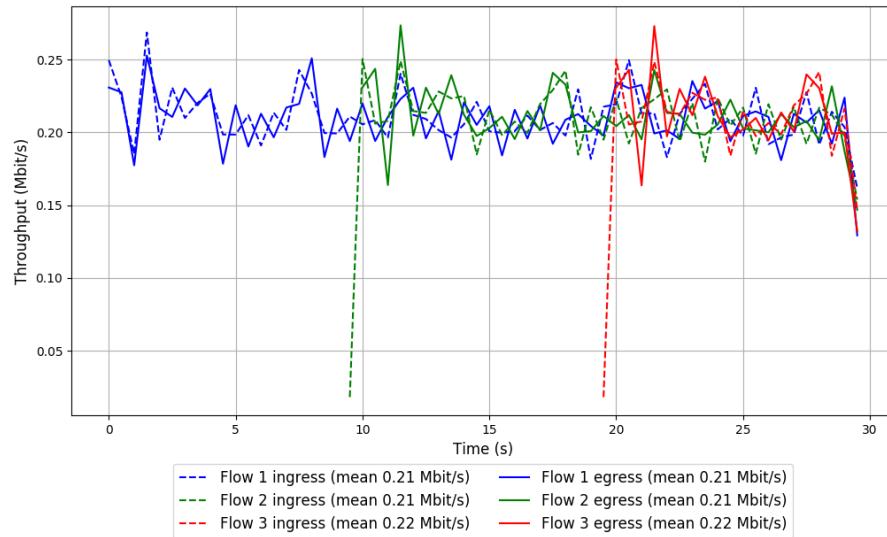
Run 9: Statistics of SCReAM

Start at: 2017-09-08 05:53:14

End at: 2017-09-08 05:53:44

```
# Below is generated by plot.py at 2017-09-08 10:05:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 53.896 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.915 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.194 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.797 ms
Loss rate: 1.11%
```

Run 9: Report of SCReAM — Data Link



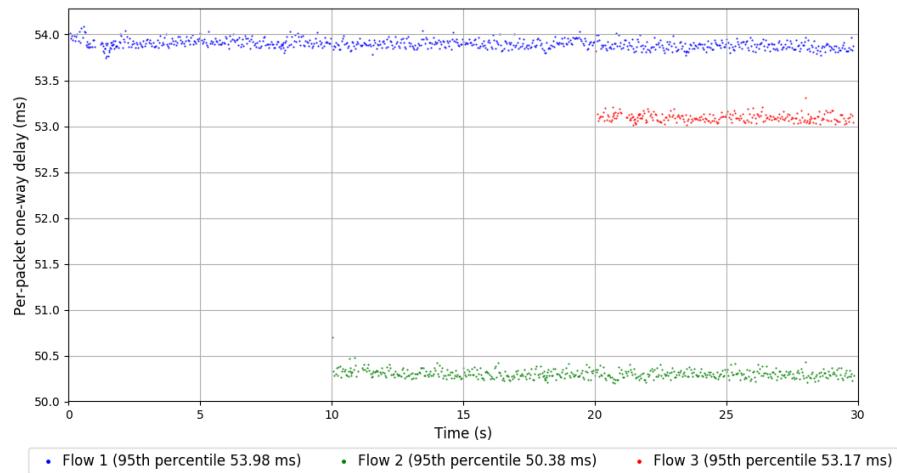
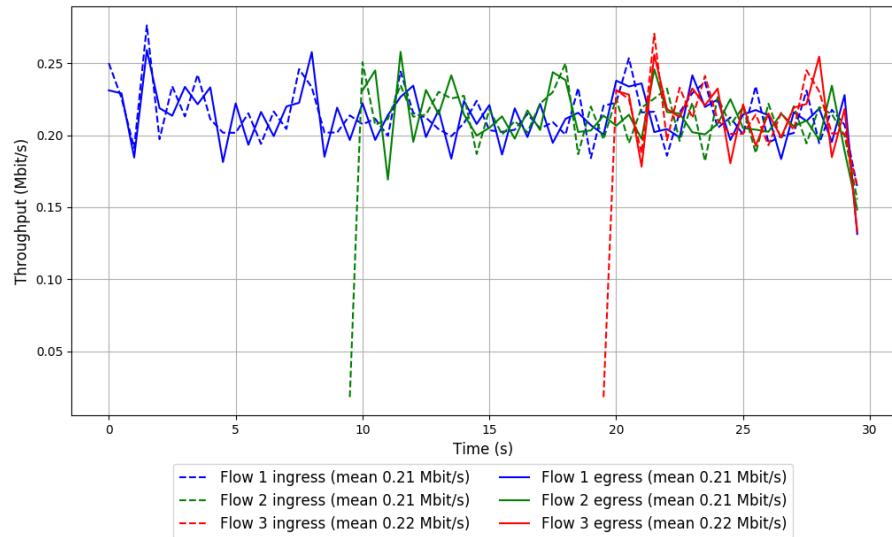
Run 10: Statistics of SCReAM

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

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

```
# Below is generated by plot.py at 2017-09-08 10:05:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.960 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.982 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.379 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.172 ms
Loss rate: 1.11%
```

Run 10: Report of SCReAM — Data Link



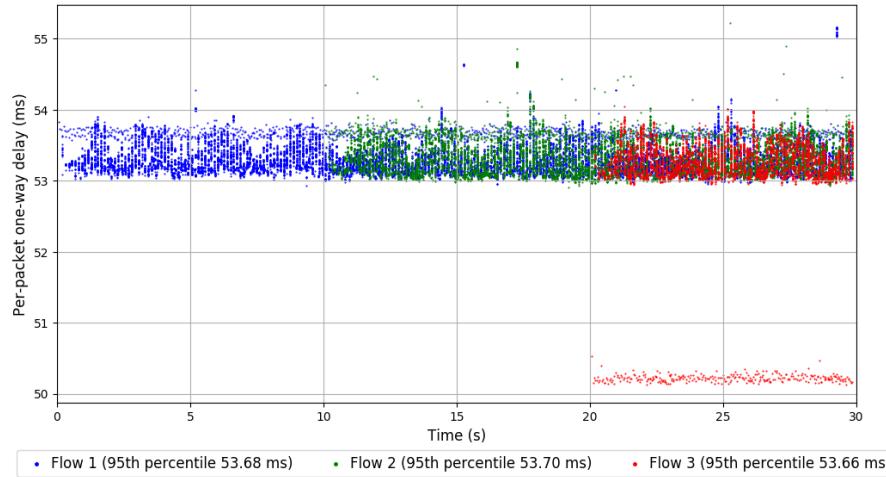
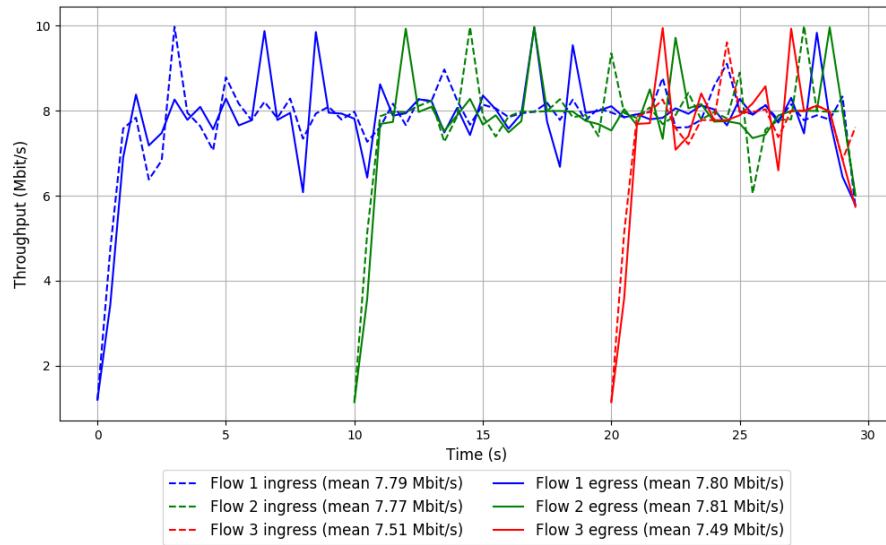
Run 1: Statistics of Sprout

Start at: 2017-09-08 04:12:22

End at: 2017-09-08 04:12:52

```
# Below is generated by plot.py at 2017-09-08 10:05:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.43 Mbit/s
95th percentile per-packet one-way delay: 53.690 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 7.80 Mbit/s
95th percentile per-packet one-way delay: 53.682 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 7.81 Mbit/s
95th percentile per-packet one-way delay: 53.703 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.49 Mbit/s
95th percentile per-packet one-way delay: 53.661 ms
Loss rate: 1.26%
```

Run 1: Report of Sprout — Data Link



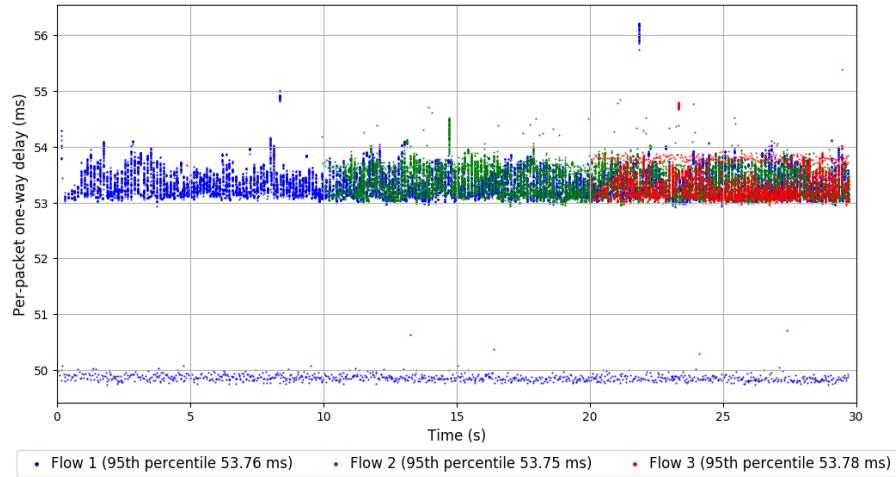
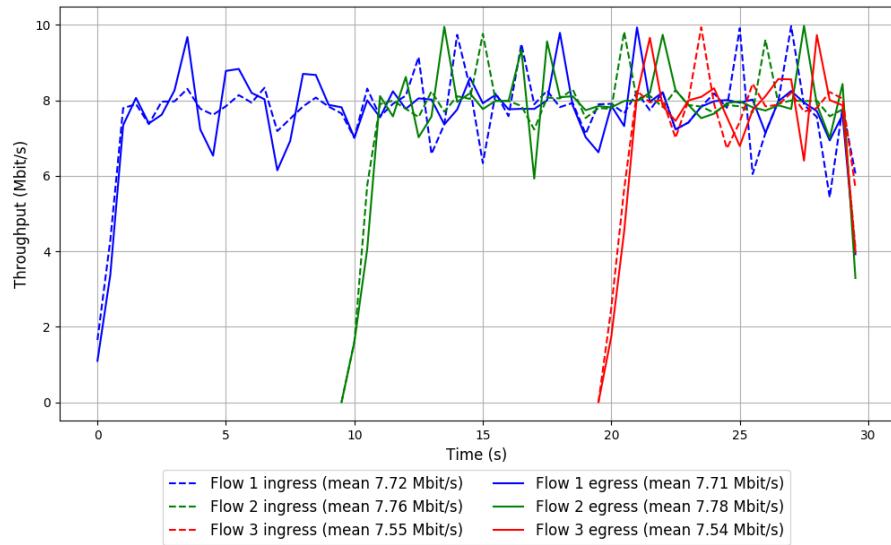
Run 2: Statistics of Sprout

Start at: 2017-09-08 04:24:52

End at: 2017-09-08 04:25:22

```
# Below is generated by plot.py at 2017-09-08 10:05:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.37 Mbit/s
95th percentile per-packet one-way delay: 53.762 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 7.71 Mbit/s
95th percentile per-packet one-way delay: 53.763 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 7.78 Mbit/s
95th percentile per-packet one-way delay: 53.754 ms
Loss rate: 0.32%
-- Flow 3:
Average throughput: 7.54 Mbit/s
95th percentile per-packet one-way delay: 53.776 ms
Loss rate: 1.41%
```

Run 2: Report of Sprout — Data Link



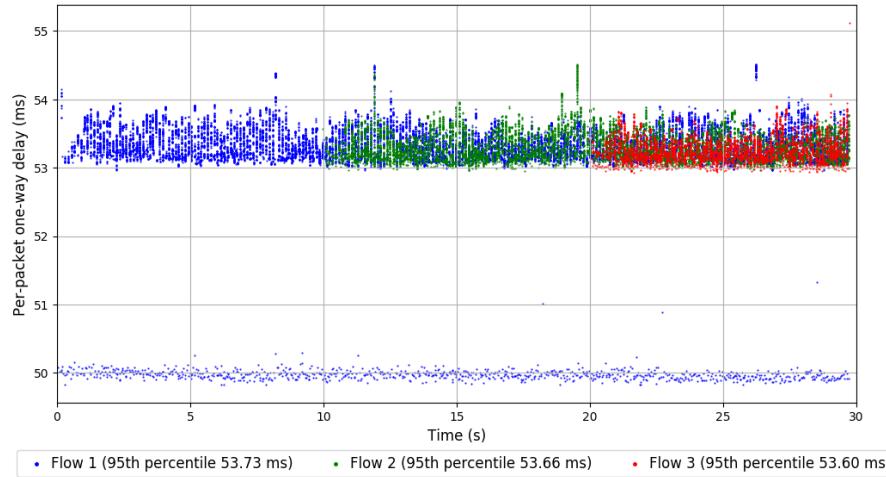
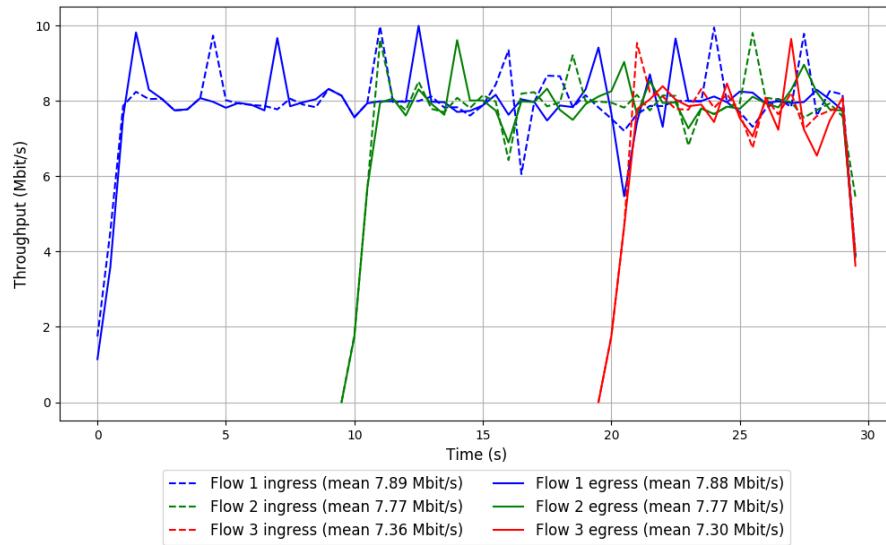
Run 3: Statistics of Sprout

Start at: 2017-09-08 04:37:16

End at: 2017-09-08 04:37:47

```
# Below is generated by plot.py at 2017-09-08 10:05:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.45 Mbit/s
95th percentile per-packet one-way delay: 53.698 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 7.88 Mbit/s
95th percentile per-packet one-way delay: 53.735 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 7.77 Mbit/s
95th percentile per-packet one-way delay: 53.662 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 7.30 Mbit/s
95th percentile per-packet one-way delay: 53.604 ms
Loss rate: 1.48%
```

Run 3: Report of Sprout — Data Link



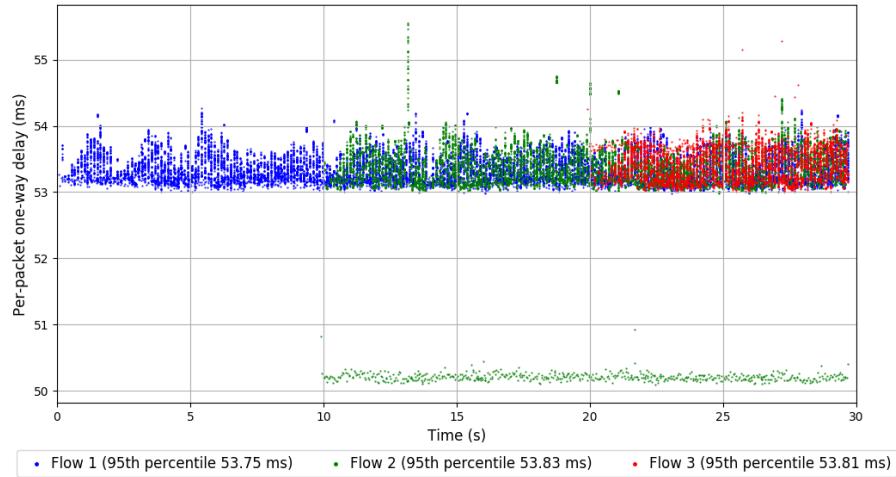
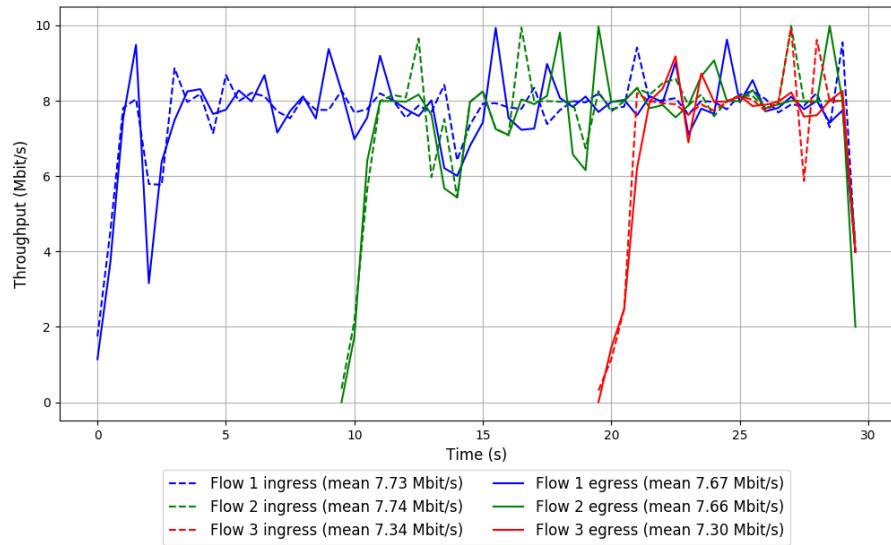
Run 4: Statistics of Sprout

Start at: 2017-09-08 04:49:39

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

```
# Below is generated by plot.py at 2017-09-08 10:05:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.18 Mbit/s
95th percentile per-packet one-way delay: 53.785 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 7.67 Mbit/s
95th percentile per-packet one-way delay: 53.747 ms
Loss rate: 1.16%
-- Flow 2:
Average throughput: 7.66 Mbit/s
95th percentile per-packet one-way delay: 53.826 ms
Loss rate: 1.37%
-- Flow 3:
Average throughput: 7.30 Mbit/s
95th percentile per-packet one-way delay: 53.814 ms
Loss rate: 1.17%
```

Run 4: Report of Sprout — Data Link



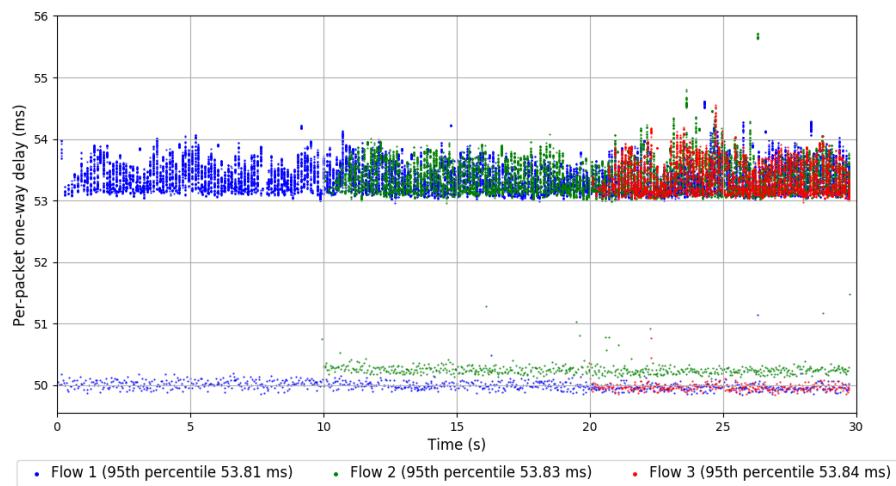
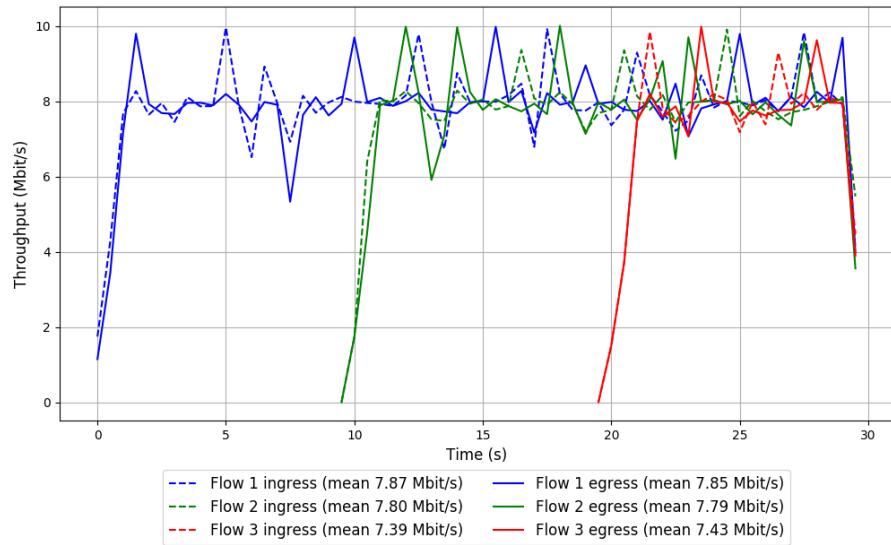
Run 5: Statistics of Sprout

Start at: 2017-09-08 05:01:59

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

```
# Below is generated by plot.py at 2017-09-08 10:05:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.48 Mbit/s
95th percentile per-packet one-way delay: 53.824 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 7.85 Mbit/s
95th percentile per-packet one-way delay: 53.808 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 7.79 Mbit/s
95th percentile per-packet one-way delay: 53.832 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 7.43 Mbit/s
95th percentile per-packet one-way delay: 53.844 ms
Loss rate: 0.54%
```

Run 5: Report of Sprout — Data Link



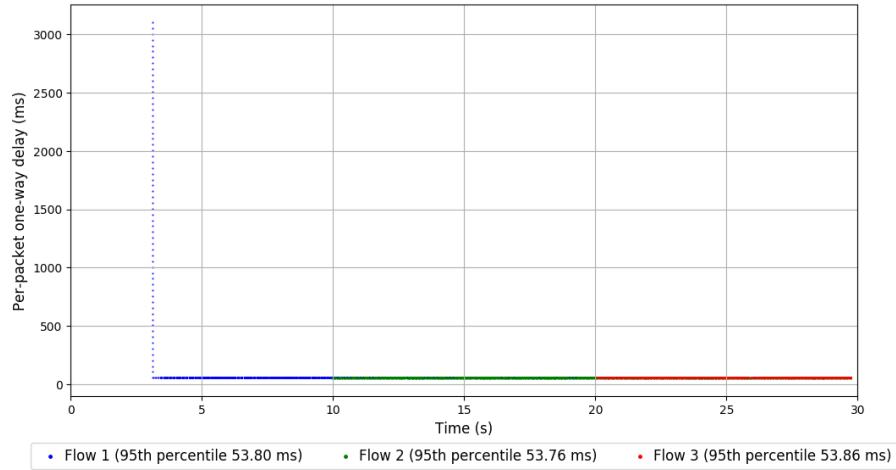
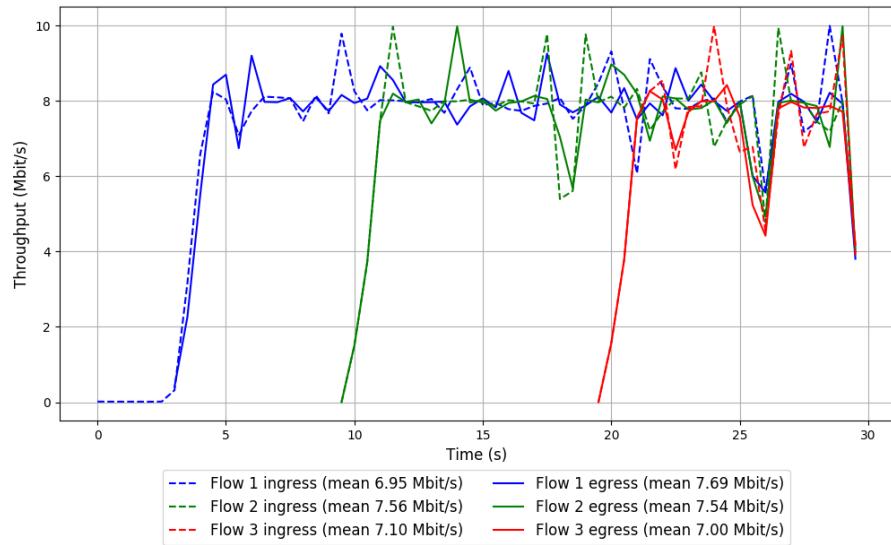
Run 6: Statistics of Sprout

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

End at: 2017-09-08 05:14:38

```
# Below is generated by plot.py at 2017-09-08 10:05:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.85 Mbit/s
95th percentile per-packet one-way delay: 53.793 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 7.69 Mbit/s
95th percentile per-packet one-way delay: 53.798 ms
Loss rate: 0.96%
-- Flow 2:
Average throughput: 7.54 Mbit/s
95th percentile per-packet one-way delay: 53.759 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 7.00 Mbit/s
95th percentile per-packet one-way delay: 53.856 ms
Loss rate: 2.66%
```

Run 6: Report of Sprout — Data Link



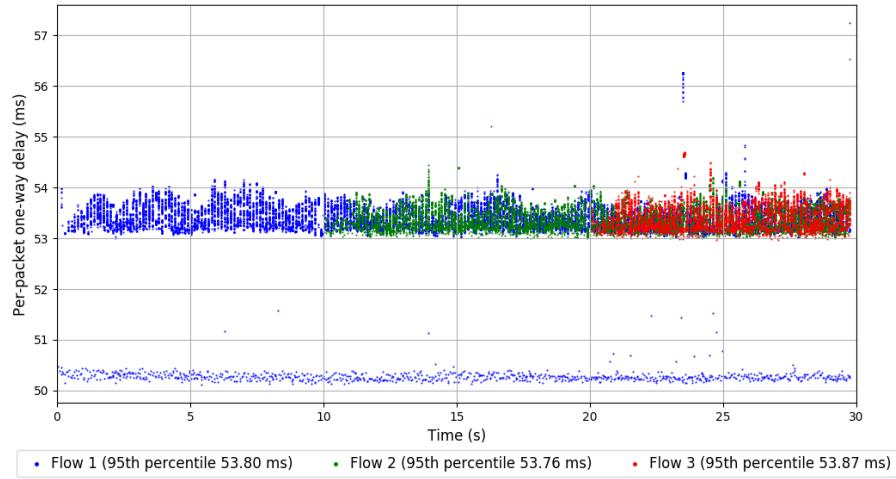
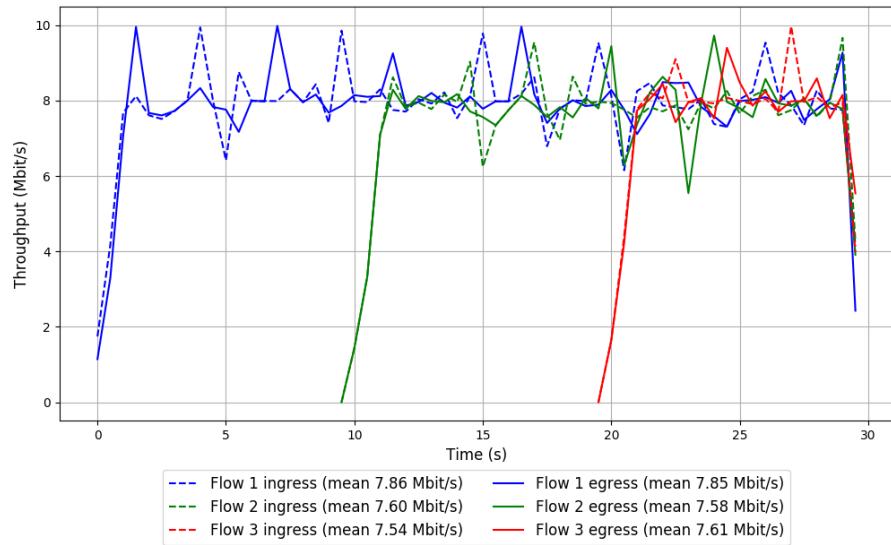
Run 7: Statistics of Sprout

Start at: 2017-09-08 05:26:31

End at: 2017-09-08 05:27:01

```
# Below is generated by plot.py at 2017-09-08 10:06:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.39 Mbit/s
95th percentile per-packet one-way delay: 53.802 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 7.85 Mbit/s
95th percentile per-packet one-way delay: 53.798 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 7.58 Mbit/s
95th percentile per-packet one-way delay: 53.760 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 7.61 Mbit/s
95th percentile per-packet one-way delay: 53.867 ms
Loss rate: 0.00%
```

Run 7: Report of Sprout — Data Link



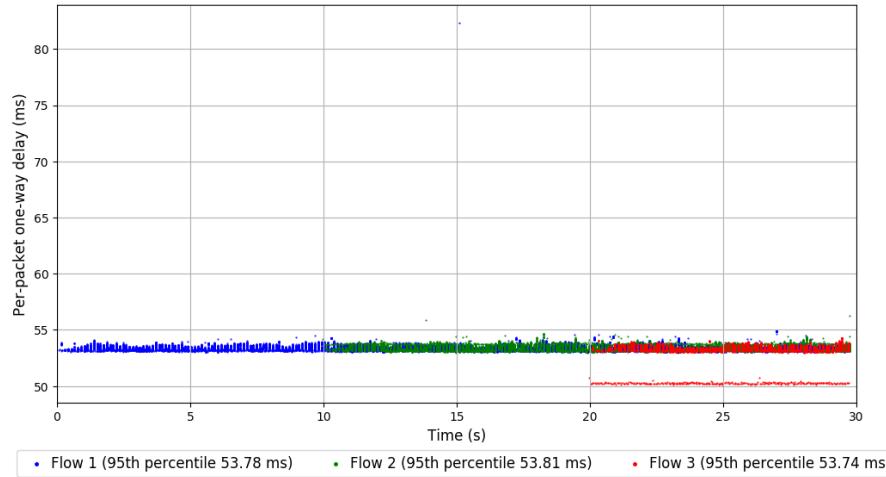
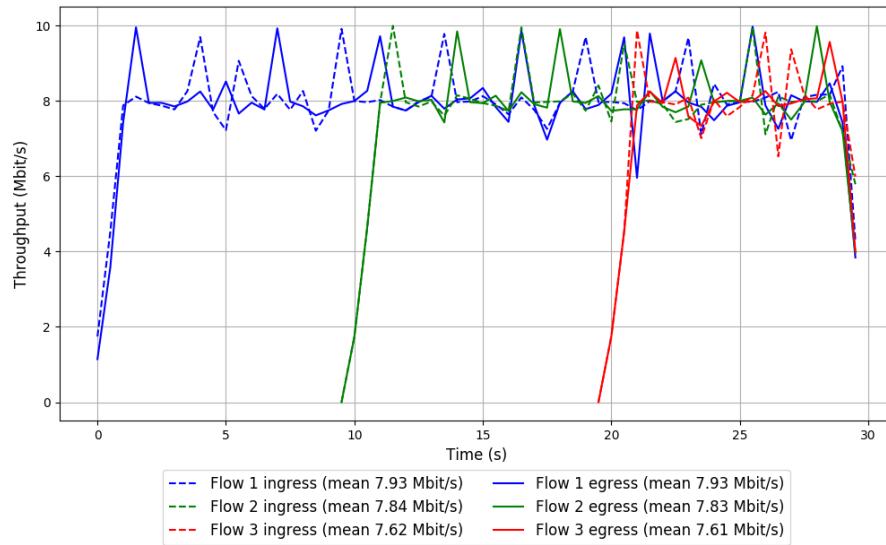
Run 8: Statistics of Sprout

Start at: 2017-09-08 05:38:56

End at: 2017-09-08 05:39:26

```
# Below is generated by plot.py at 2017-09-08 10:06:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.63 Mbit/s
95th percentile per-packet one-way delay: 53.785 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 7.93 Mbit/s
95th percentile per-packet one-way delay: 53.779 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 7.83 Mbit/s
95th percentile per-packet one-way delay: 53.810 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 7.61 Mbit/s
95th percentile per-packet one-way delay: 53.738 ms
Loss rate: 1.33%
```

Run 8: Report of Sprout — Data Link



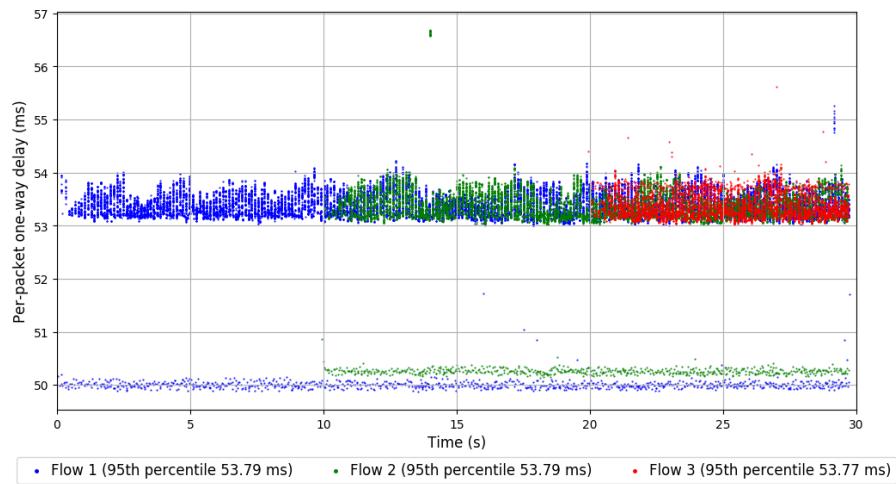
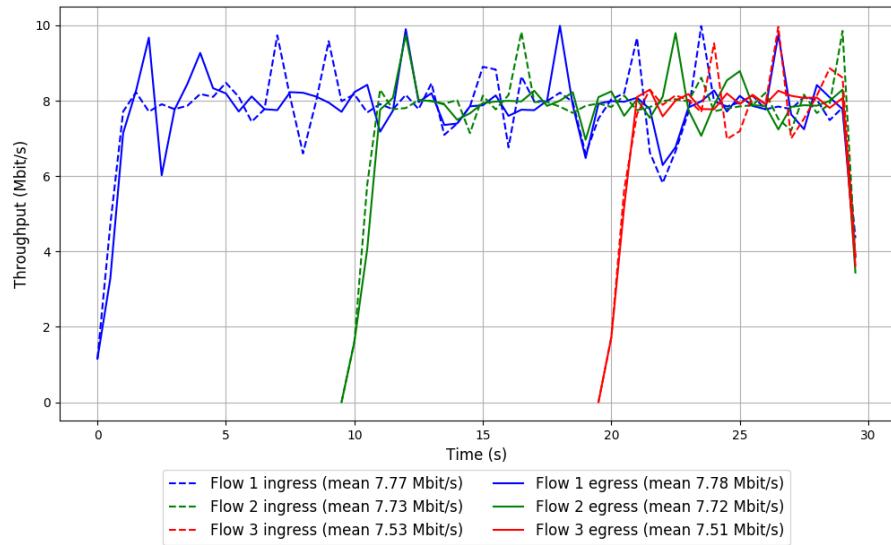
Run 9: Statistics of Sprout

Start at: 2017-09-08 05:51:03

End at: 2017-09-08 05:51:33

```
# Below is generated by plot.py at 2017-09-08 10:06:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.40 Mbit/s
95th percentile per-packet one-way delay: 53.786 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 7.78 Mbit/s
95th percentile per-packet one-way delay: 53.786 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 7.72 Mbit/s
95th percentile per-packet one-way delay: 53.792 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 7.51 Mbit/s
95th percentile per-packet one-way delay: 53.775 ms
Loss rate: 1.28%
```

Run 9: Report of Sprout — Data Link



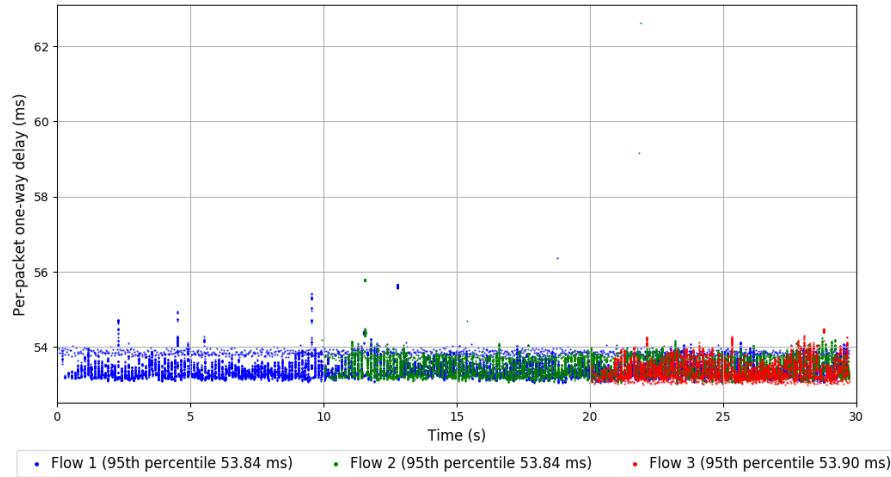
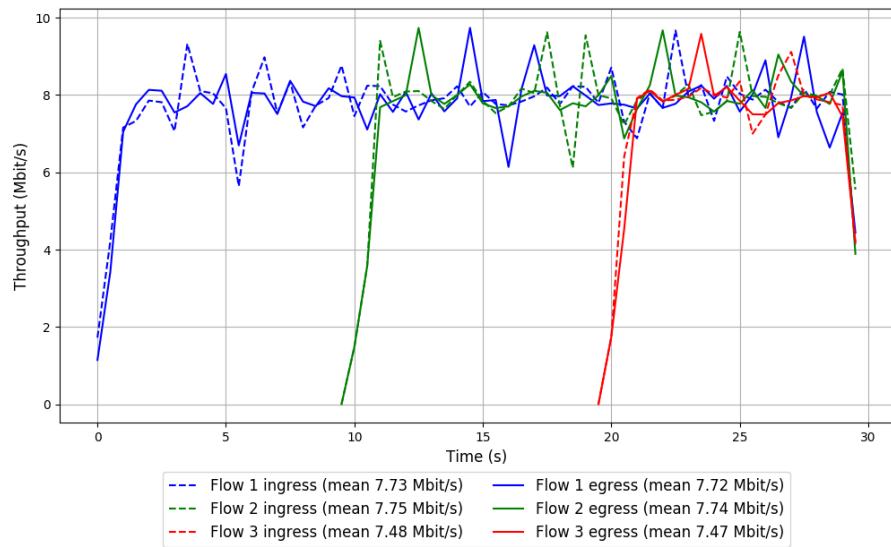
Run 10: Statistics of Sprout

Start at: 2017-09-08 06:03:31

End at: 2017-09-08 06:04:01

```
# Below is generated by plot.py at 2017-09-08 10:06:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.34 Mbit/s
95th percentile per-packet one-way delay: 53.850 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 7.72 Mbit/s
95th percentile per-packet one-way delay: 53.845 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 7.74 Mbit/s
95th percentile per-packet one-way delay: 53.839 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 7.47 Mbit/s
95th percentile per-packet one-way delay: 53.897 ms
Loss rate: 1.30%
```

Run 10: Report of Sprout — Data Link



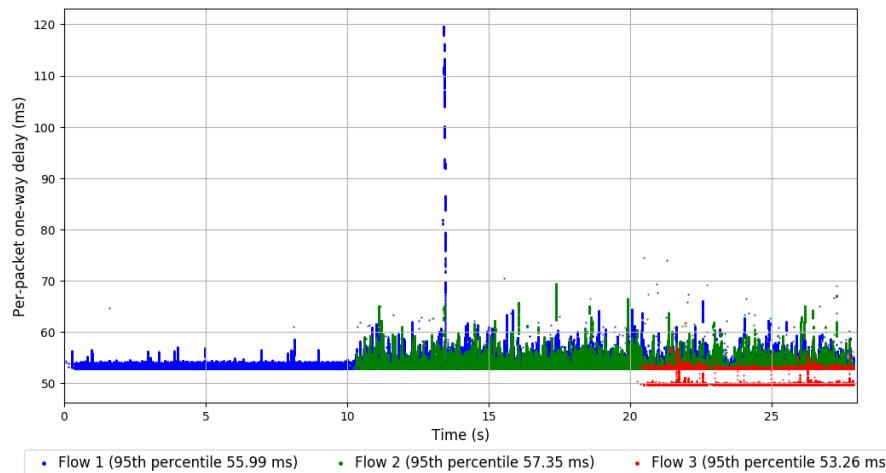
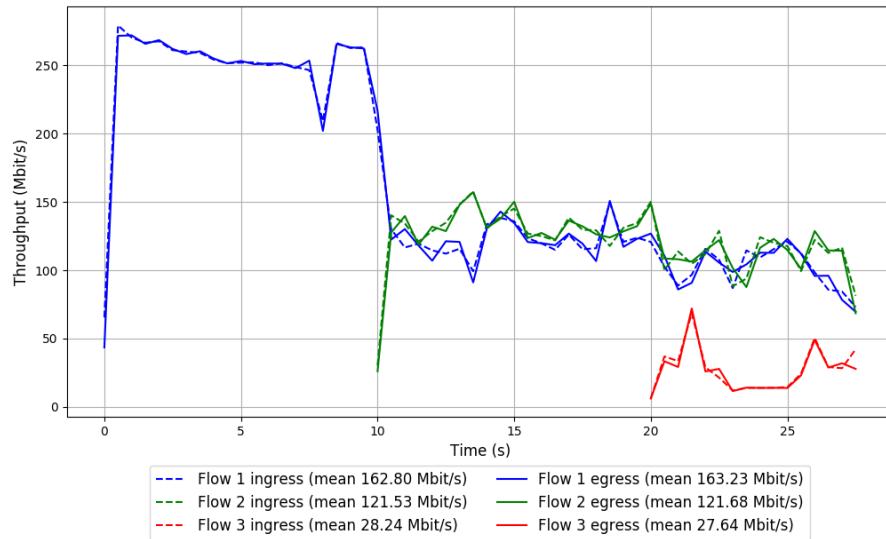
Run 1: Statistics of TaoVA-100x

Start at: 2017-09-08 04:11:19

End at: 2017-09-08 04:11:49

```
# Below is generated by plot.py at 2017-09-08 10:07:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 248.52 Mbit/s
95th percentile per-packet one-way delay: 56.453 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 163.23 Mbit/s
95th percentile per-packet one-way delay: 55.995 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 121.68 Mbit/s
95th percentile per-packet one-way delay: 57.351 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 27.64 Mbit/s
95th percentile per-packet one-way delay: 53.260 ms
Loss rate: 3.64%
```

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



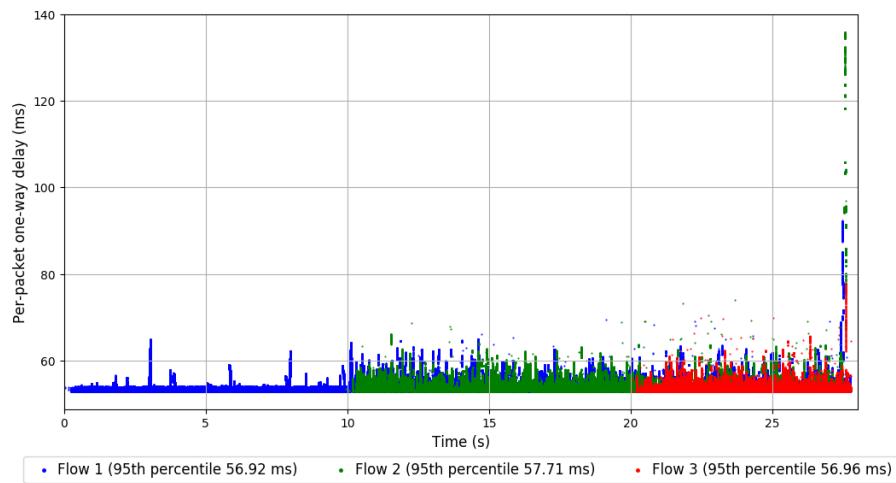
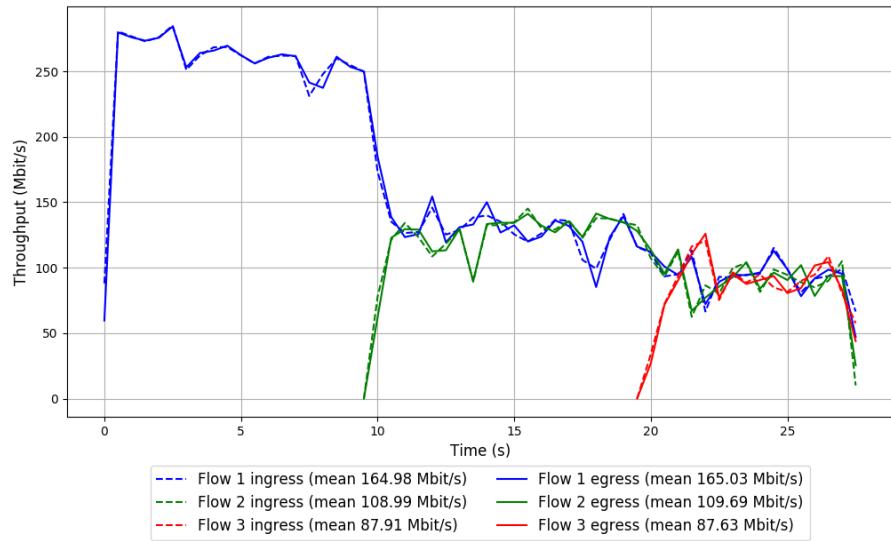
Run 2: Statistics of TaoVA-100x

Start at: 2017-09-08 04:23:48

End at: 2017-09-08 04:24:18

```
# Below is generated by plot.py at 2017-09-08 10:07:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 260.06 Mbit/s
95th percentile per-packet one-way delay: 57.188 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 165.03 Mbit/s
95th percentile per-packet one-way delay: 56.925 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 109.69 Mbit/s
95th percentile per-packet one-way delay: 57.708 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 87.63 Mbit/s
95th percentile per-packet one-way delay: 56.960 ms
Loss rate: 1.58%
```

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



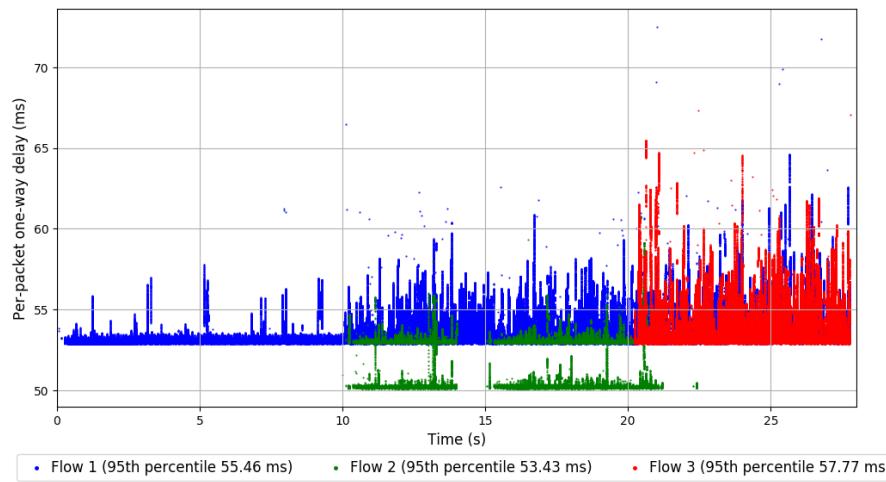
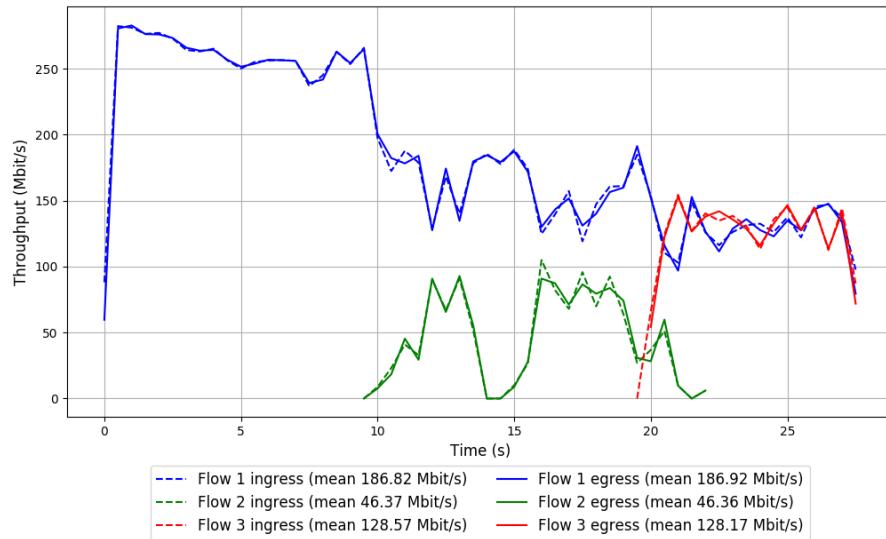
Run 3: Statistics of TaoVA-100x

Start at: 2017-09-08 04:36:14

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

```
# Below is generated by plot.py at 2017-09-08 10:08:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 243.57 Mbit/s
95th percentile per-packet one-way delay: 55.893 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 186.92 Mbit/s
95th percentile per-packet one-way delay: 55.462 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 46.36 Mbit/s
95th percentile per-packet one-way delay: 53.434 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 128.17 Mbit/s
95th percentile per-packet one-way delay: 57.771 ms
Loss rate: 1.64%
```

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



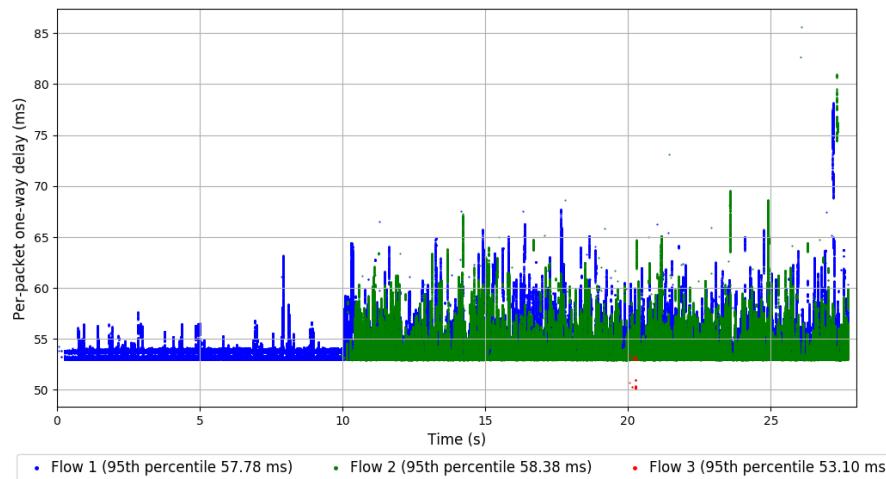
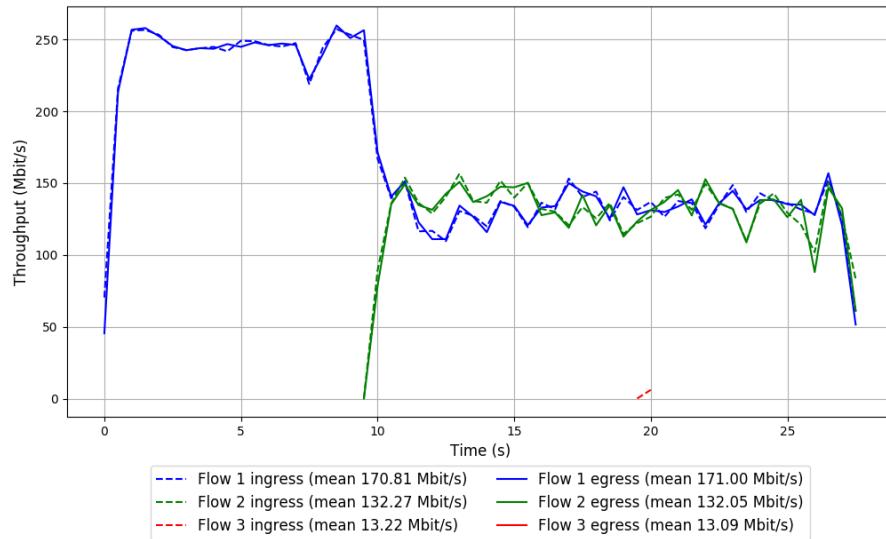
Run 4: Statistics of TaoVA-100x

Start at: 2017-09-08 04:48:36

End at: 2017-09-08 04:49:06

```
# Below is generated by plot.py at 2017-09-08 10:08:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 255.97 Mbit/s
95th percentile per-packet one-way delay: 58.035 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 171.00 Mbit/s
95th percentile per-packet one-way delay: 57.780 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 132.05 Mbit/s
95th percentile per-packet one-way delay: 58.383 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 13.09 Mbit/s
95th percentile per-packet one-way delay: 53.101 ms
Loss rate: 0.00%
```

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



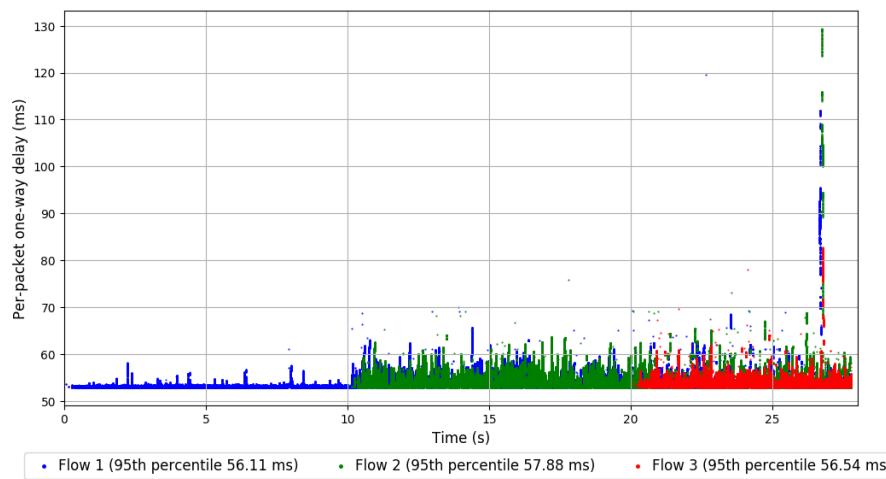
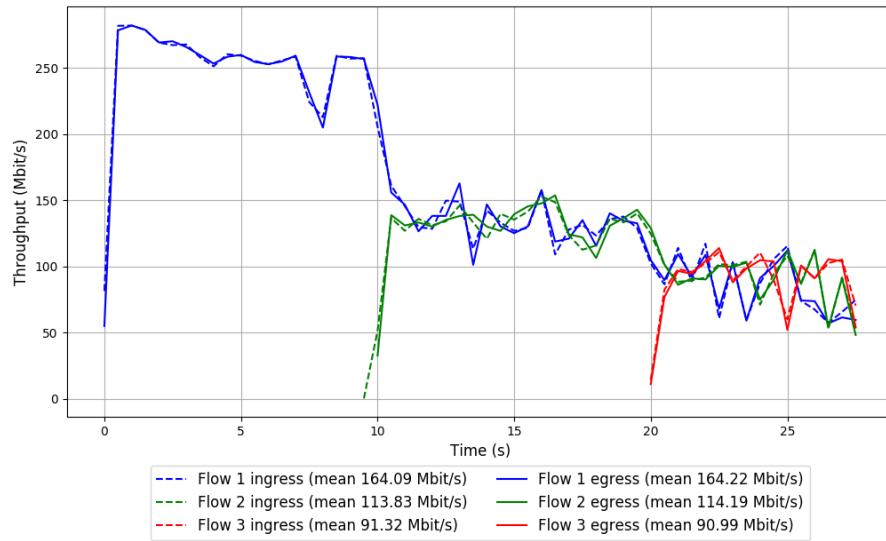
Run 5: Statistics of TaoVA-100x

Start at: 2017-09-08 05:00:53

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

```
# Below is generated by plot.py at 2017-09-08 10:10:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 262.50 Mbit/s
95th percentile per-packet one-way delay: 56.857 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 164.22 Mbit/s
95th percentile per-packet one-way delay: 56.112 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 114.19 Mbit/s
95th percentile per-packet one-way delay: 57.881 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 90.99 Mbit/s
95th percentile per-packet one-way delay: 56.538 ms
Loss rate: 1.68%
```

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



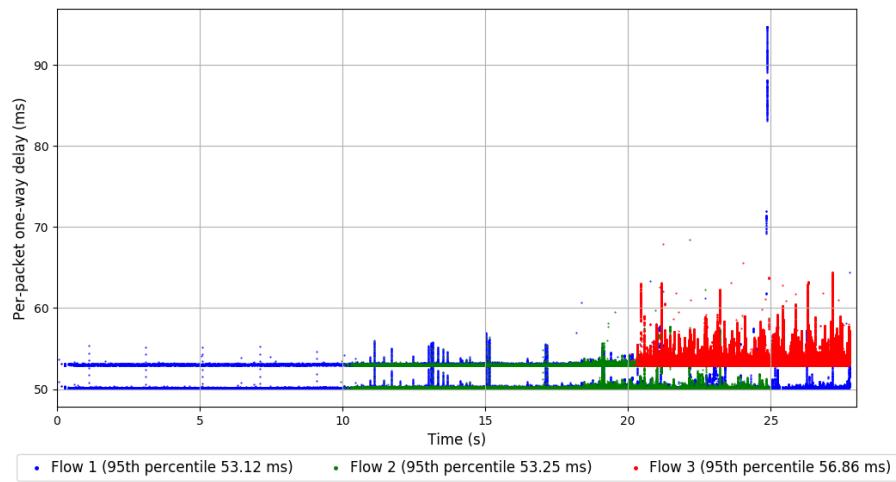
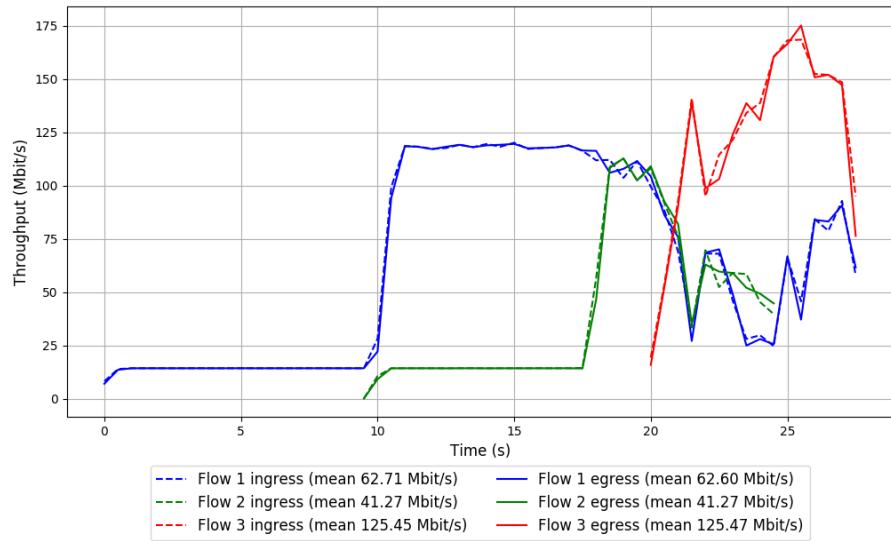
Run 6: Statistics of TaoVA-100x

Start at: 2017-09-08 05:13:16

End at: 2017-09-08 05:13:46

```
# Below is generated by plot.py at 2017-09-08 10:10:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 119.57 Mbit/s
95th percentile per-packet one-way delay: 55.112 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 62.60 Mbit/s
95th percentile per-packet one-way delay: 53.116 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 41.27 Mbit/s
95th percentile per-packet one-way delay: 53.252 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 125.47 Mbit/s
95th percentile per-packet one-way delay: 56.864 ms
Loss rate: 1.73%
```

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



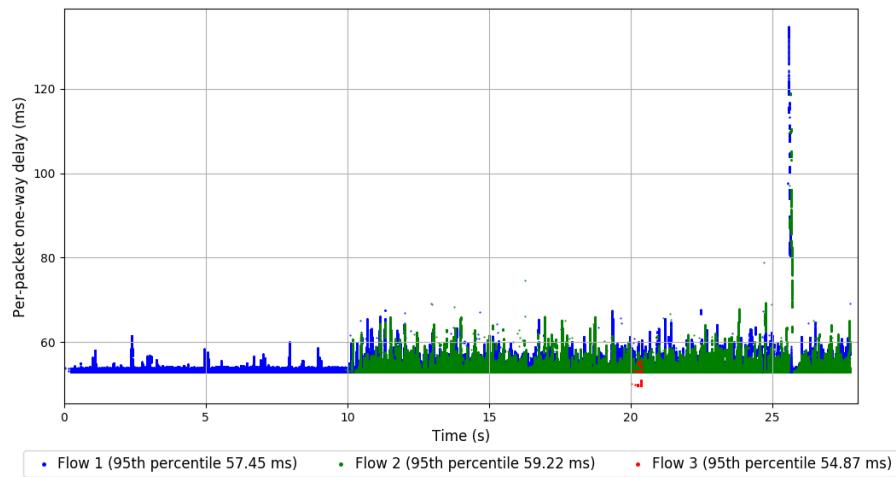
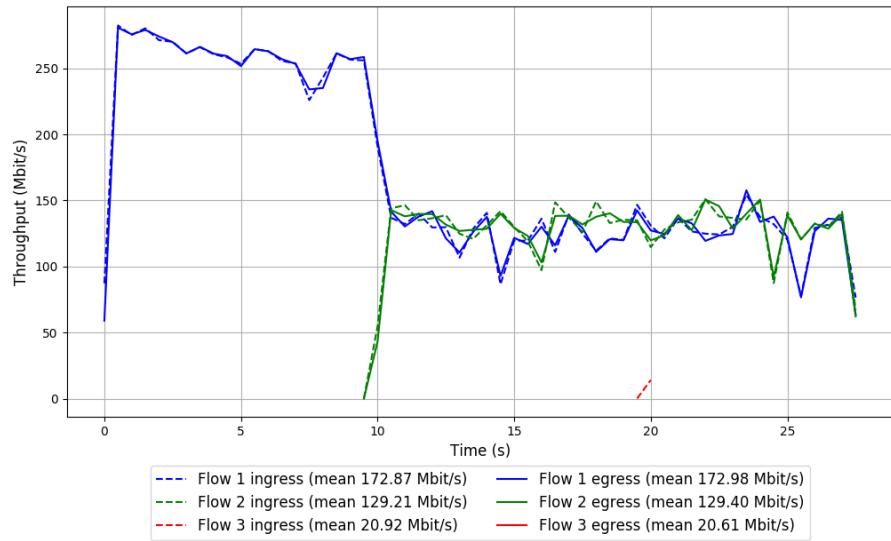
Run 7: Statistics of TaoVA-100x

Start at: 2017-09-08 05:25:26

End at: 2017-09-08 05:25:56

```
# Below is generated by plot.py at 2017-09-08 10:11:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 256.42 Mbit/s
95th percentile per-packet one-way delay: 58.100 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 172.98 Mbit/s
95th percentile per-packet one-way delay: 57.455 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 129.40 Mbit/s
95th percentile per-packet one-way delay: 59.223 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 20.61 Mbit/s
95th percentile per-packet one-way delay: 54.871 ms
Loss rate: 0.00%
```

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



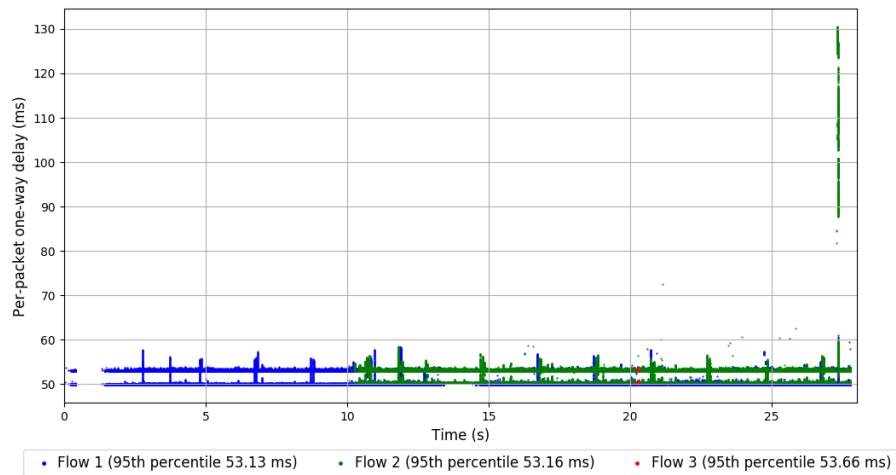
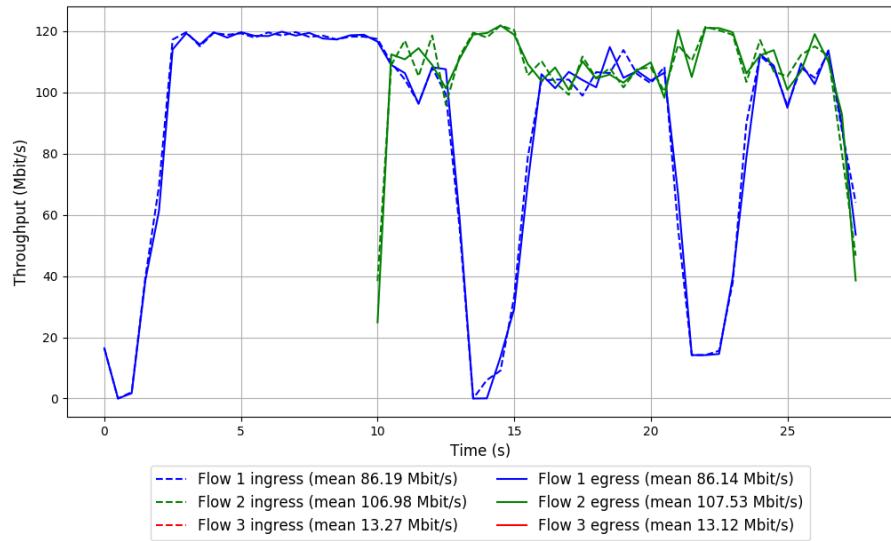
Run 8: Statistics of TaoVA-100x

Start at: 2017-09-08 05:38:03

End at: 2017-09-08 05:38:33

```
# Below is generated by plot.py at 2017-09-08 10:11:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 154.97 Mbit/s
95th percentile per-packet one-way delay: 53.144 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 86.14 Mbit/s
95th percentile per-packet one-way delay: 53.130 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 107.53 Mbit/s
95th percentile per-packet one-way delay: 53.165 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 13.12 Mbit/s
95th percentile per-packet one-way delay: 53.664 ms
Loss rate: 0.00%
```

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



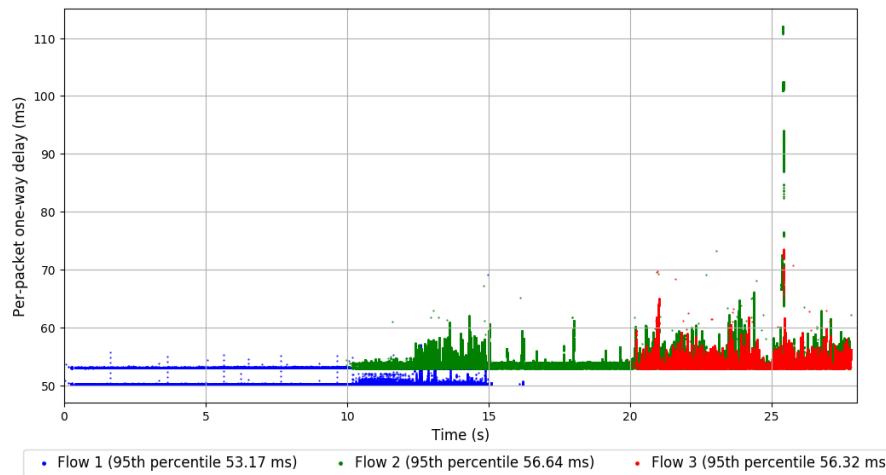
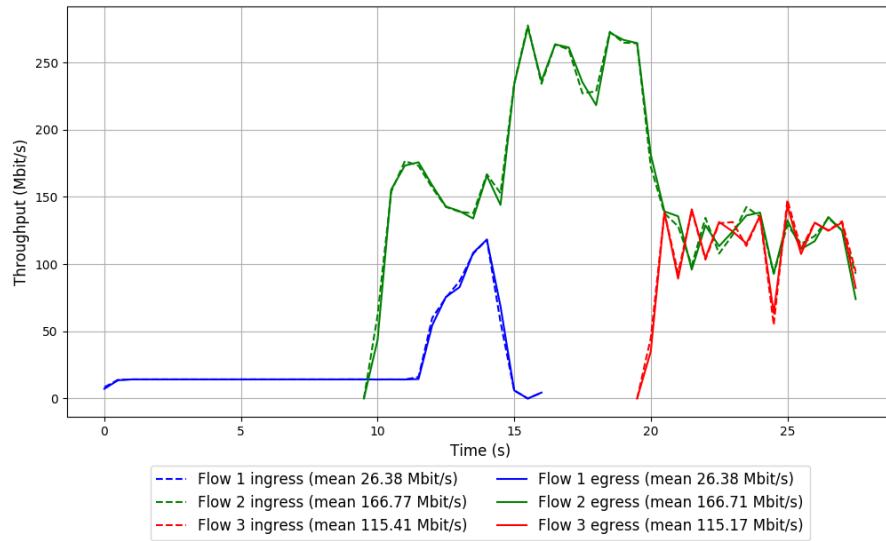
Run 9: Statistics of TaoVA-100x

Start at: 2017-09-08 05:50:10

End at: 2017-09-08 05:50:40

```
# Below is generated by plot.py at 2017-09-08 10:12:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 154.82 Mbit/s
95th percentile per-packet one-way delay: 56.367 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 26.38 Mbit/s
95th percentile per-packet one-way delay: 53.167 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 166.71 Mbit/s
95th percentile per-packet one-way delay: 56.642 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 115.17 Mbit/s
95th percentile per-packet one-way delay: 56.324 ms
Loss rate: 1.61%
```

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



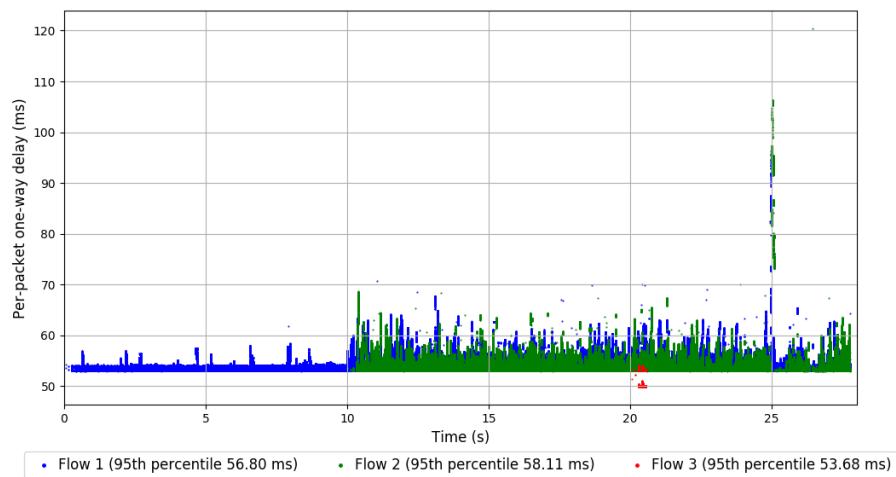
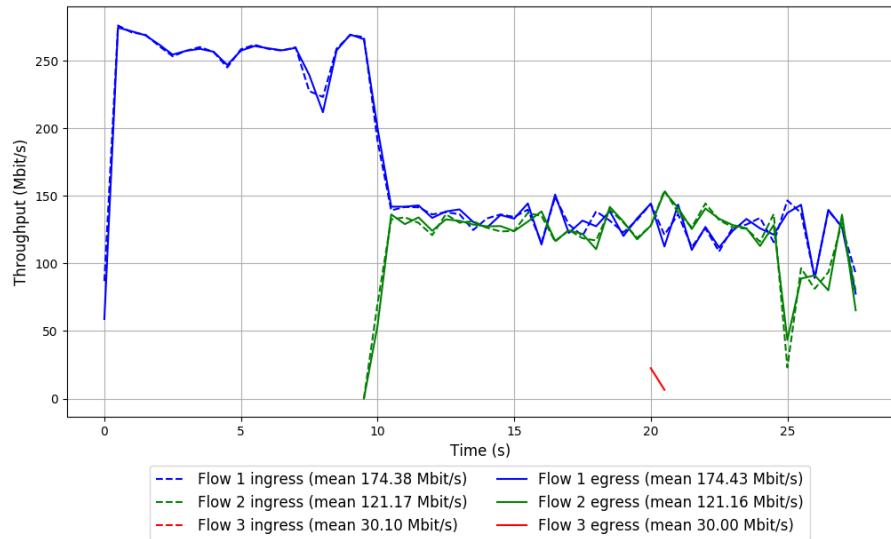
Run 10: Statistics of TaoVA-100x

Start at: 2017-09-08 06:02:27

End at: 2017-09-08 06:02:57

```
# Below is generated by plot.py at 2017-09-08 10:12:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 252.65 Mbit/s
95th percentile per-packet one-way delay: 57.269 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 174.43 Mbit/s
95th percentile per-packet one-way delay: 56.800 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 121.16 Mbit/s
95th percentile per-packet one-way delay: 58.107 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 30.00 Mbit/s
95th percentile per-packet one-way delay: 53.682 ms
Loss rate: 0.00%
```

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

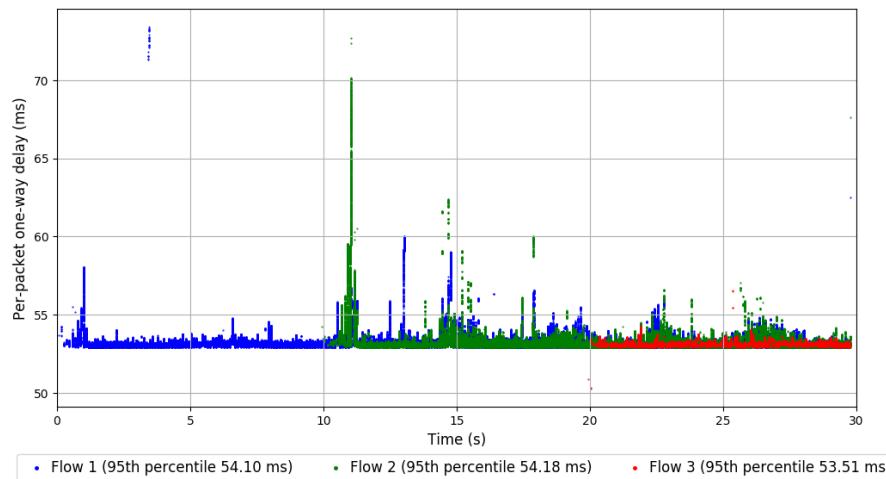
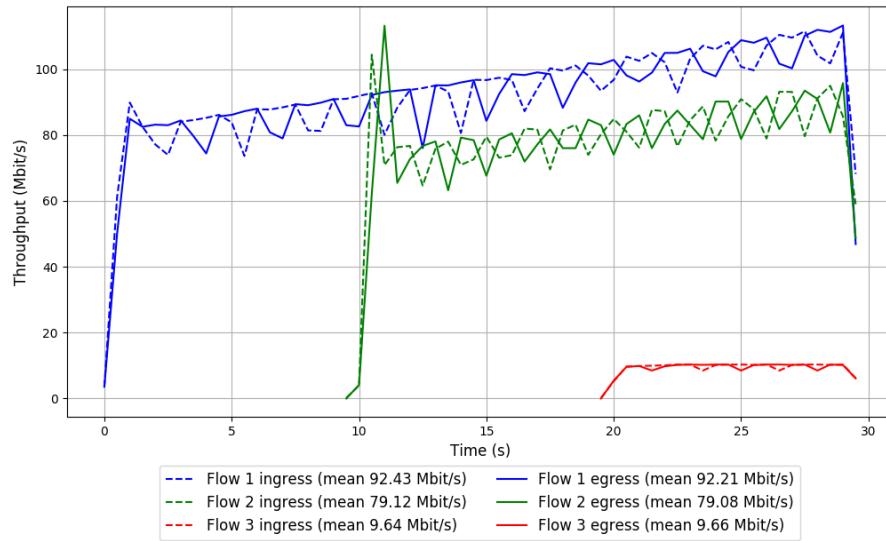


```
Run 1: Statistics of TCP Vegas

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

# Below is generated by plot.py at 2017-09-08 10:12:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 148.18 Mbit/s
95th percentile per-packet one-way delay: 54.104 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 92.21 Mbit/s
95th percentile per-packet one-way delay: 54.096 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 79.08 Mbit/s
95th percentile per-packet one-way delay: 54.178 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 9.66 Mbit/s
95th percentile per-packet one-way delay: 53.507 ms
Loss rate: 1.08%
```

Run 1: Report of TCP Vegas — Data Link



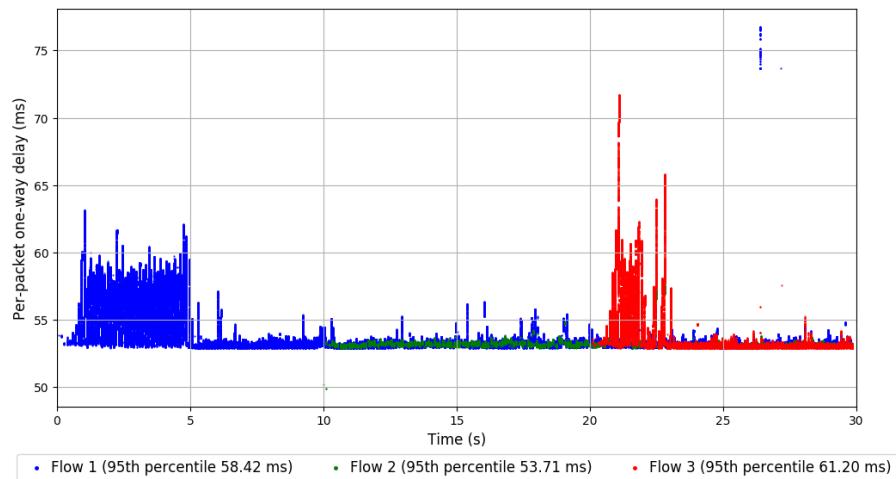
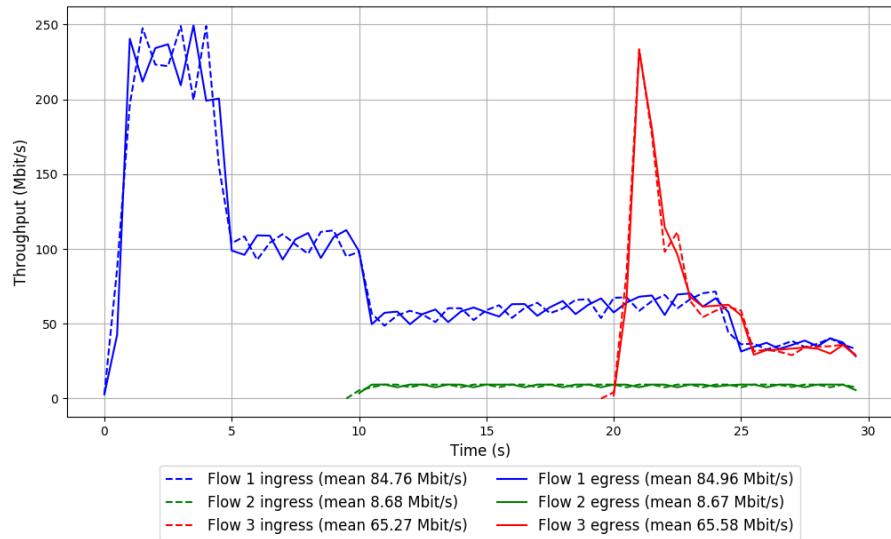
Run 2: Statistics of TCP Vegas

Start at: 2017-09-08 04:30:49

End at: 2017-09-08 04:31:19

```
# Below is generated by plot.py at 2017-09-08 10:12:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 112.40 Mbit/s
95th percentile per-packet one-way delay: 58.760 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 84.96 Mbit/s
95th percentile per-packet one-way delay: 58.418 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 8.67 Mbit/s
95th percentile per-packet one-way delay: 53.714 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 65.58 Mbit/s
95th percentile per-packet one-way delay: 61.205 ms
Loss rate: 0.58%
```

Run 2: Report of TCP Vegas — Data Link



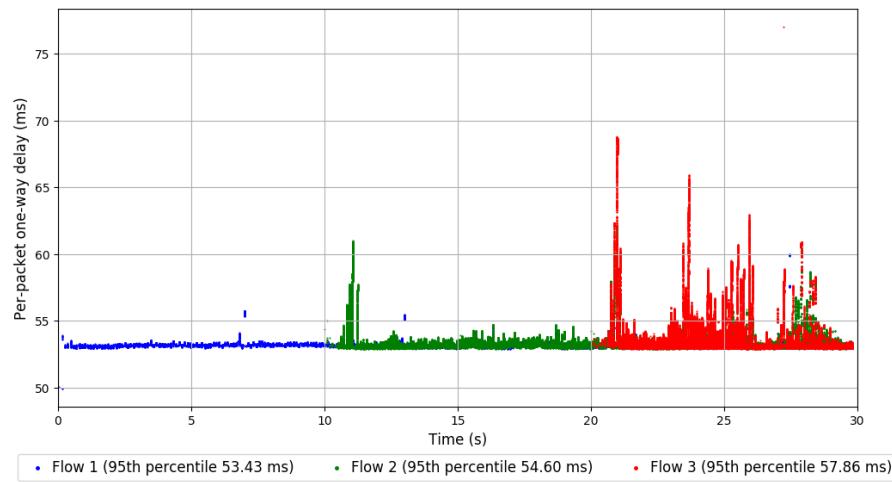
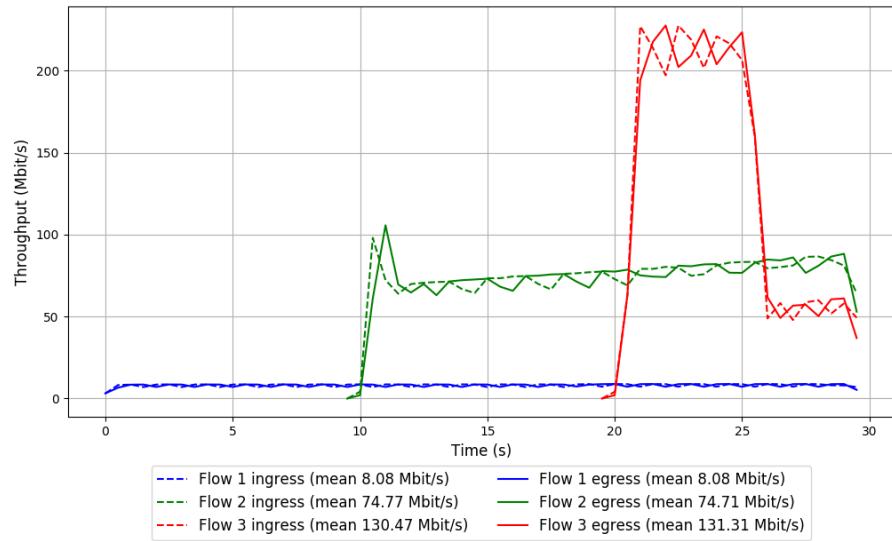
Run 3: Statistics of TCP Vegas

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

End at: 2017-09-08 04:43:38

```
# Below is generated by plot.py at 2017-09-08 10:12:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 101.11 Mbit/s
95th percentile per-packet one-way delay: 56.229 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 8.08 Mbit/s
95th percentile per-packet one-way delay: 53.430 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 74.71 Mbit/s
95th percentile per-packet one-way delay: 54.596 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 131.31 Mbit/s
95th percentile per-packet one-way delay: 57.863 ms
Loss rate: 0.49%
```

Run 3: Report of TCP Vegas — Data Link



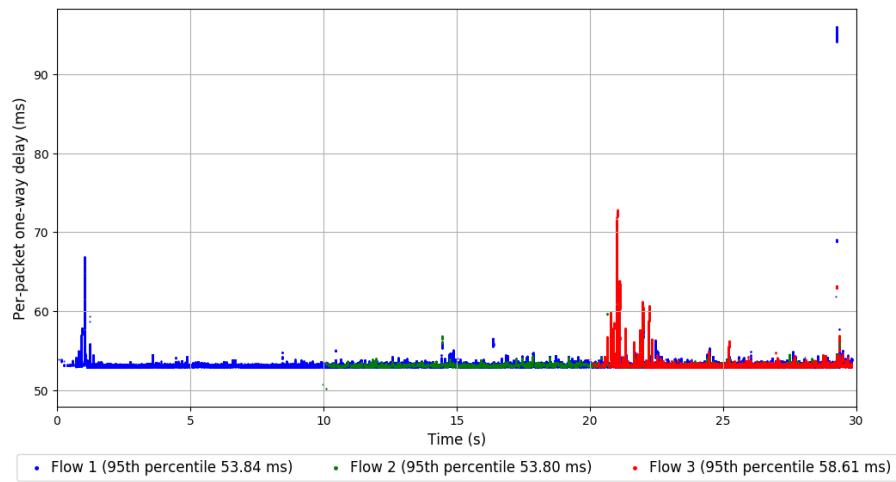
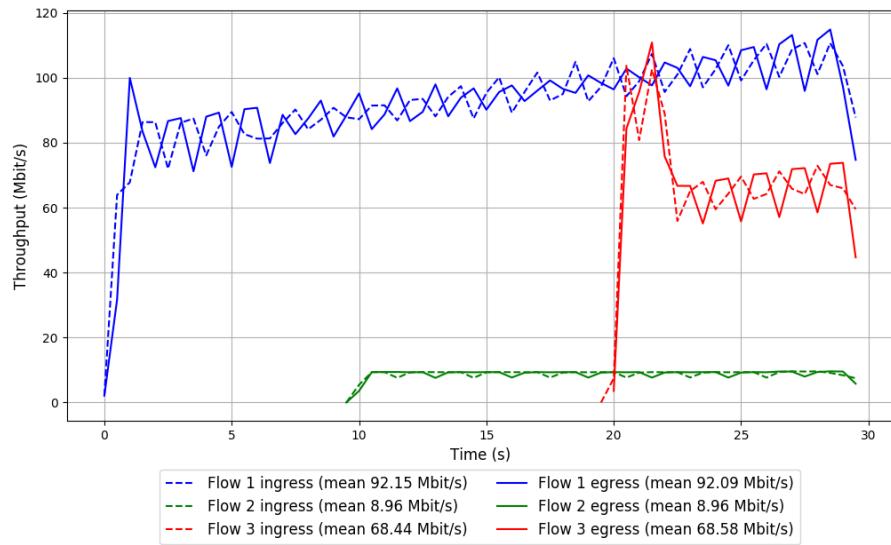
Run 4: Statistics of TCP Vegas

Start at: 2017-09-08 04:55:29

End at: 2017-09-08 04:55:59

```
# Below is generated by plot.py at 2017-09-08 10:13:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 120.63 Mbit/s
95th percentile per-packet one-way delay: 54.154 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 92.09 Mbit/s
95th percentile per-packet one-way delay: 53.836 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 8.96 Mbit/s
95th percentile per-packet one-way delay: 53.797 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 68.58 Mbit/s
95th percentile per-packet one-way delay: 58.611 ms
Loss rate: 1.10%
```

Run 4: Report of TCP Vegas — Data Link



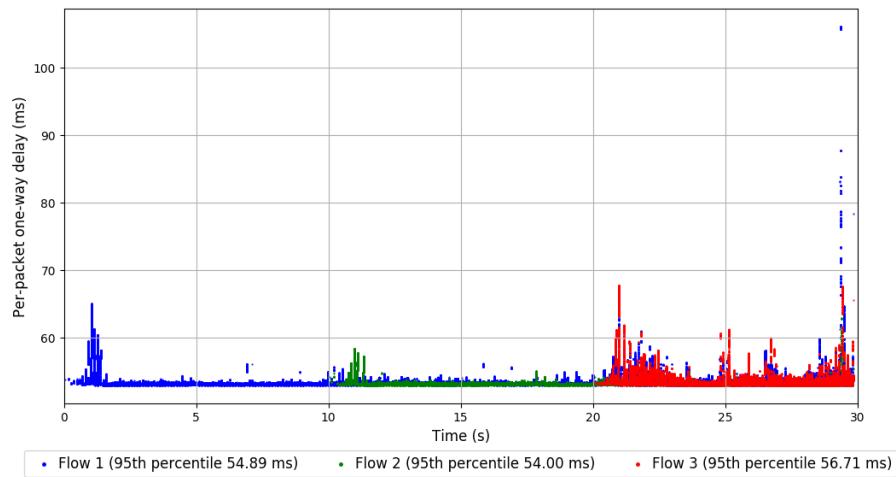
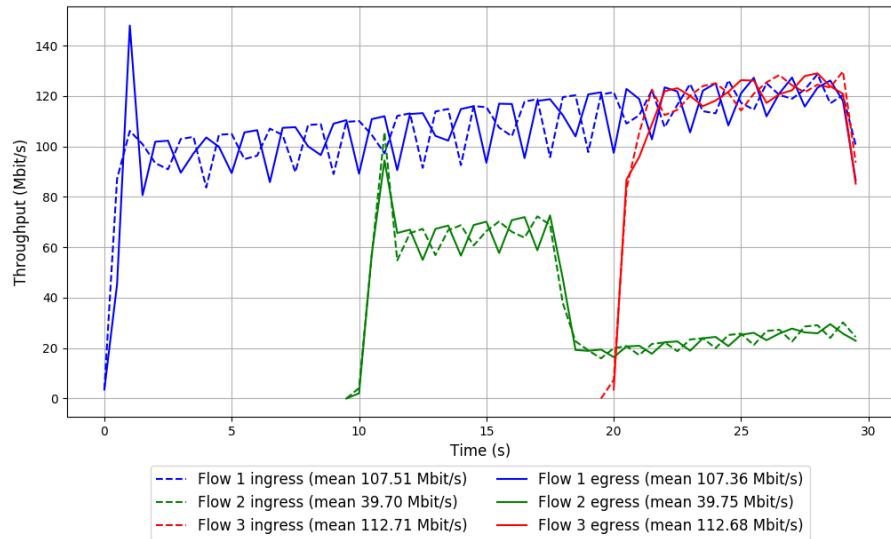
Run 5: Statistics of TCP Vegas

Start at: 2017-09-08 05:07:51

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

```
# Below is generated by plot.py at 2017-09-08 10:13:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 170.98 Mbit/s
95th percentile per-packet one-way delay: 55.348 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 107.36 Mbit/s
95th percentile per-packet one-way delay: 54.889 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 39.75 Mbit/s
95th percentile per-packet one-way delay: 54.000 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 112.68 Mbit/s
95th percentile per-packet one-way delay: 56.713 ms
Loss rate: 1.16%
```

Run 5: Report of TCP Vegas — Data Link



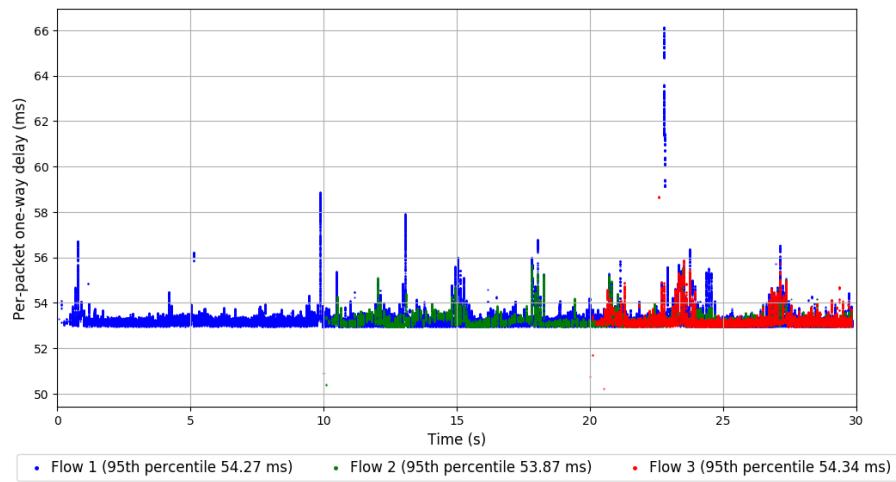
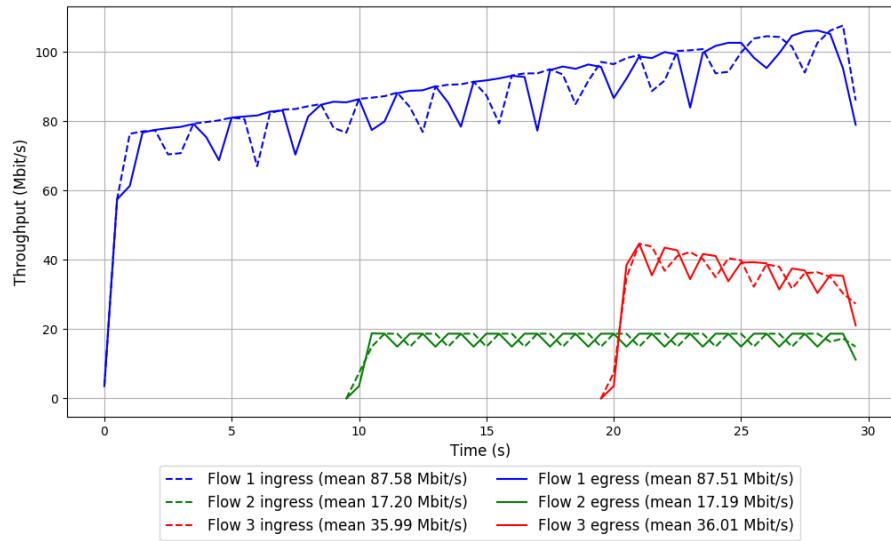
Run 6: Statistics of TCP Vegas

Start at: 2017-09-08 05:20:02

End at: 2017-09-08 05:20:32

```
# Below is generated by plot.py at 2017-09-08 10:13:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 110.81 Mbit/s
95th percentile per-packet one-way delay: 54.230 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 87.51 Mbit/s
95th percentile per-packet one-way delay: 54.274 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 17.19 Mbit/s
95th percentile per-packet one-way delay: 53.865 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 36.01 Mbit/s
95th percentile per-packet one-way delay: 54.337 ms
Loss rate: 0.99%
```

Run 6: Report of TCP Vegas — Data Link



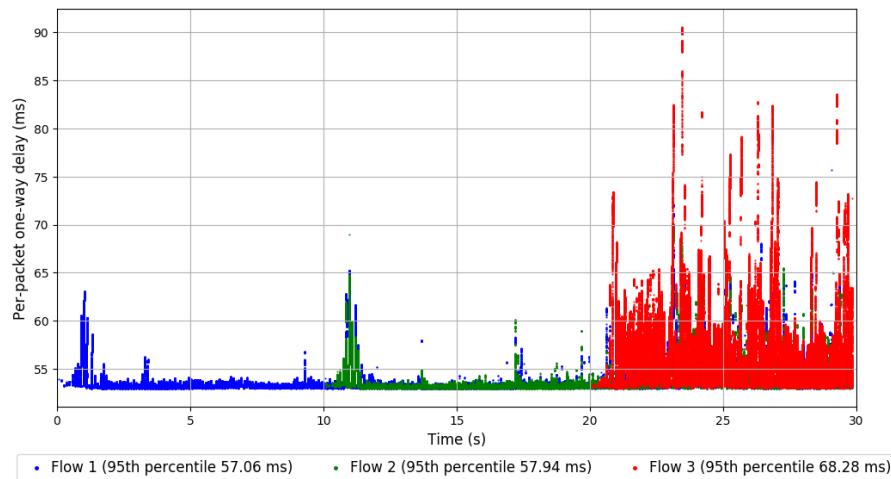
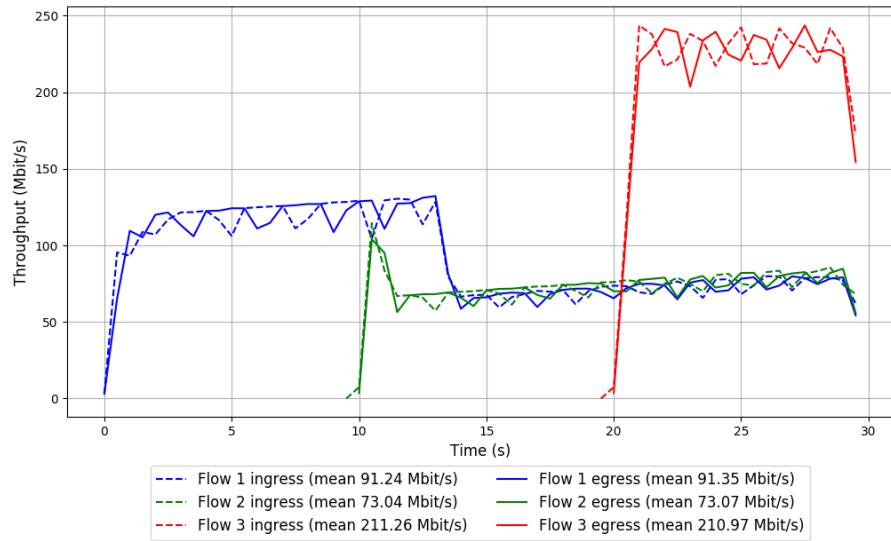
Run 7: Statistics of TCP Vegas

Start at: 2017-09-08 05:32:24

End at: 2017-09-08 05:32:54

```
# Below is generated by plot.py at 2017-09-08 10:14:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 209.71 Mbit/s
95th percentile per-packet one-way delay: 62.795 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 91.35 Mbit/s
95th percentile per-packet one-way delay: 57.064 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 73.07 Mbit/s
95th percentile per-packet one-way delay: 57.940 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 210.97 Mbit/s
95th percentile per-packet one-way delay: 68.280 ms
Loss rate: 1.26%
```

Run 7: Report of TCP Vegas — Data Link



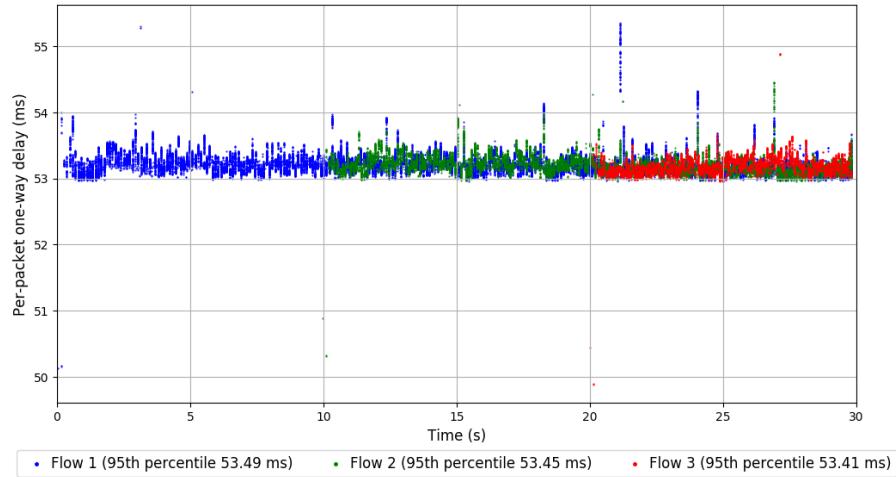
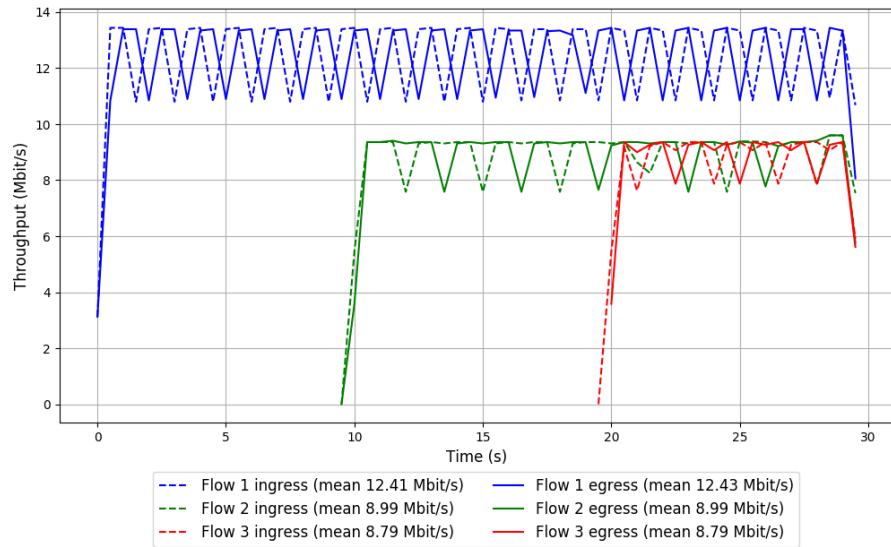
Run 8: Statistics of TCP Vegas

Start at: 2017-09-08 05:44:46

End at: 2017-09-08 05:45:16

```
# Below is generated by plot.py at 2017-09-08 10:14:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 21.31 Mbit/s
95th percentile per-packet one-way delay: 53.466 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 12.43 Mbit/s
95th percentile per-packet one-way delay: 53.488 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 8.99 Mbit/s
95th percentile per-packet one-way delay: 53.453 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 8.79 Mbit/s
95th percentile per-packet one-way delay: 53.412 ms
Loss rate: 1.08%
```

Run 8: Report of TCP Vegas — Data Link



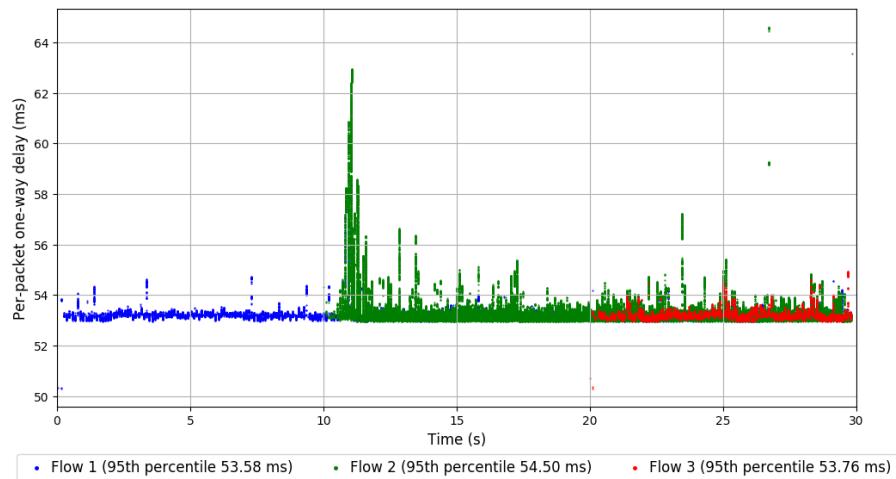
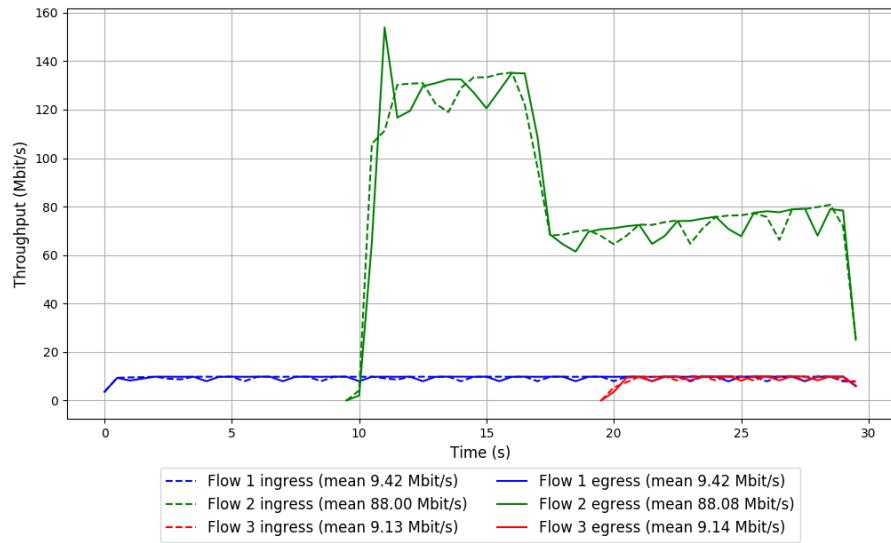
Run 9: Statistics of TCP Vegas

Start at: 2017-09-08 05:56:58

End at: 2017-09-08 05:57:28

```
# Below is generated by plot.py at 2017-09-08 10:14:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 71.11 Mbit/s
95th percentile per-packet one-way delay: 54.372 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 9.42 Mbit/s
95th percentile per-packet one-way delay: 53.583 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 88.08 Mbit/s
95th percentile per-packet one-way delay: 54.504 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 9.14 Mbit/s
95th percentile per-packet one-way delay: 53.759 ms
Loss rate: 1.12%
```

Run 9: Report of TCP Vegas — Data Link



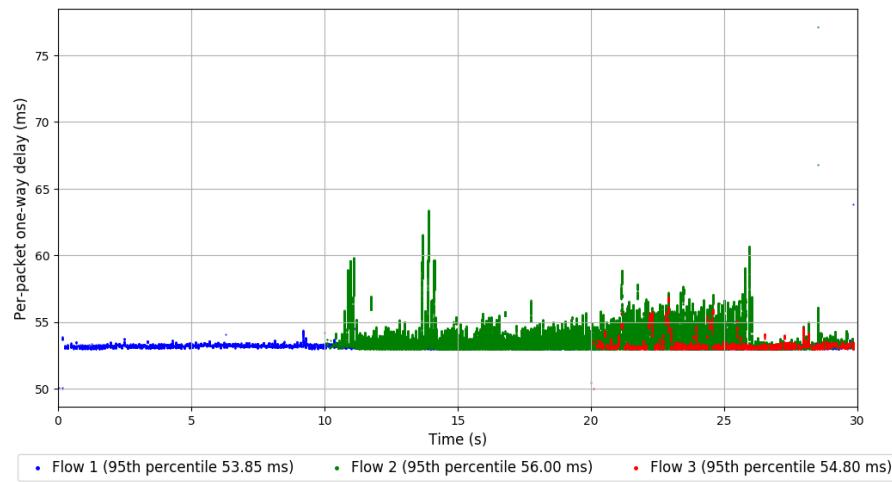
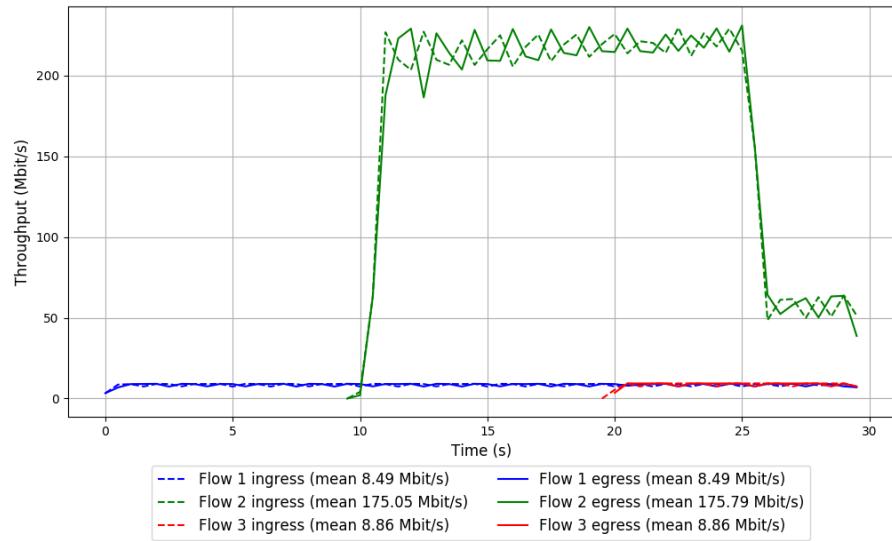
Run 10: Statistics of TCP Vegas

Start at: 2017-09-08 06:09:22

End at: 2017-09-08 06:09:52

```
# Below is generated by plot.py at 2017-09-08 10:14:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 128.43 Mbit/s
95th percentile per-packet one-way delay: 55.911 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 8.49 Mbit/s
95th percentile per-packet one-way delay: 53.848 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 175.79 Mbit/s
95th percentile per-packet one-way delay: 55.998 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 8.86 Mbit/s
95th percentile per-packet one-way delay: 54.798 ms
Loss rate: 1.06%
```

Run 10: Report of TCP Vegas — Data Link



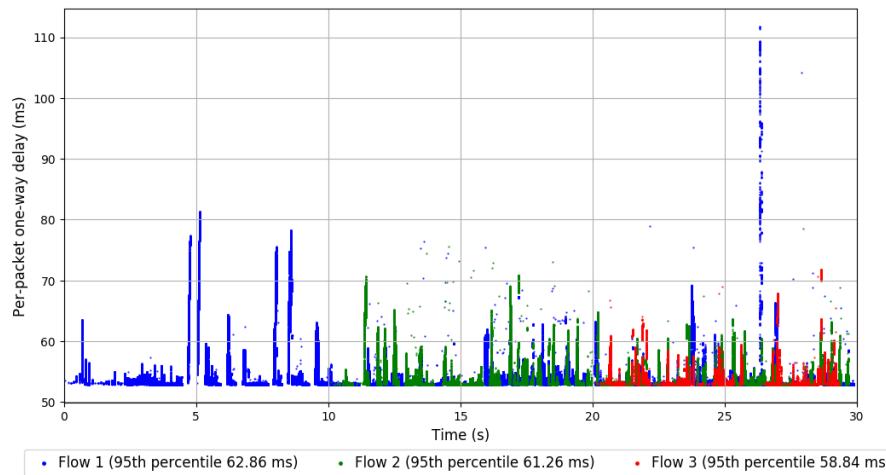
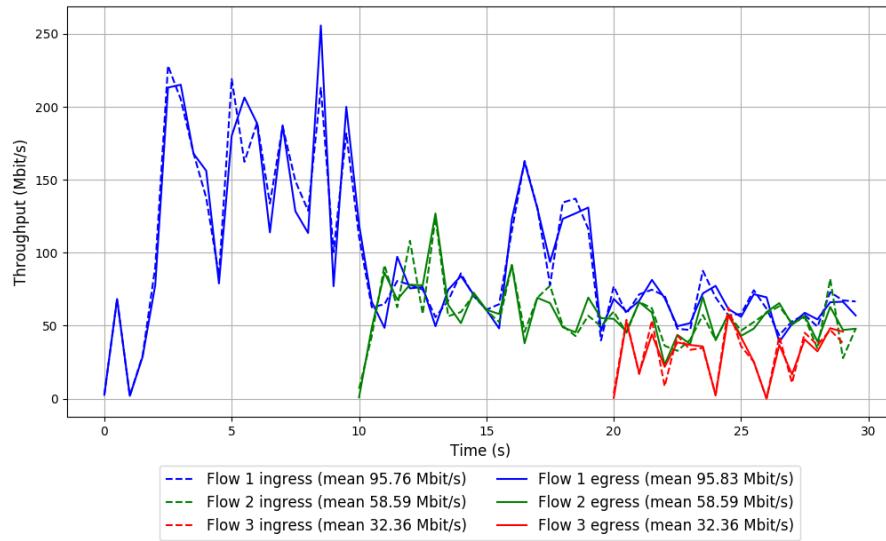
Run 1: Statistics of Verus

Start at: 2017-09-08 04:16:43

End at: 2017-09-08 04:17:13

```
# Below is generated by plot.py at 2017-09-08 10:14:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 144.25 Mbit/s
95th percentile per-packet one-way delay: 61.821 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 95.83 Mbit/s
95th percentile per-packet one-way delay: 62.862 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 58.59 Mbit/s
95th percentile per-packet one-way delay: 61.262 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 32.36 Mbit/s
95th percentile per-packet one-way delay: 58.845 ms
Loss rate: 0.00%
```

Run 1: Report of Verus — Data Link



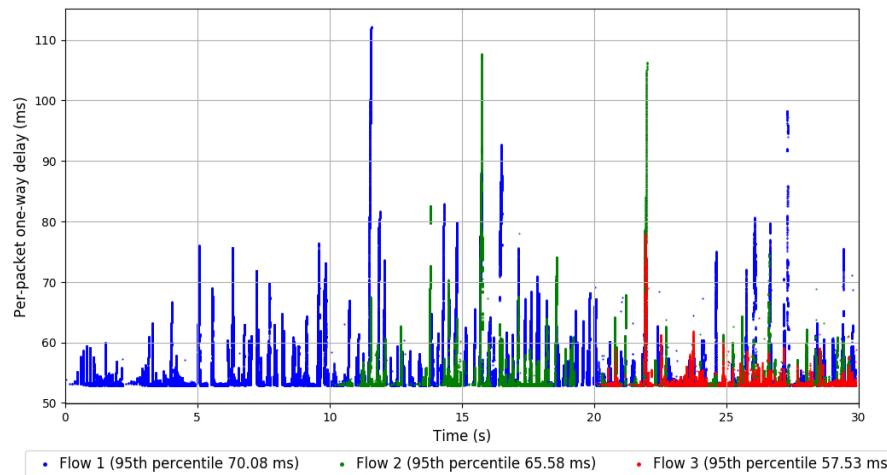
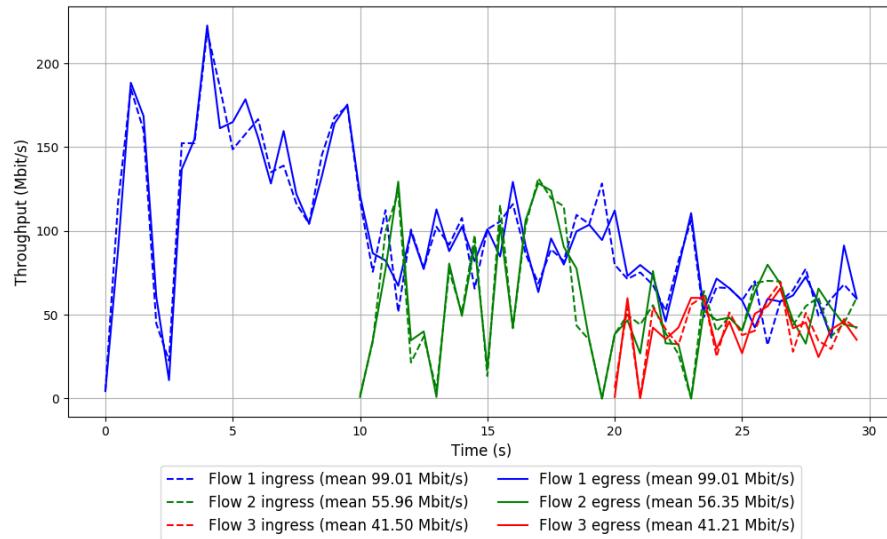
Run 2: Statistics of Verus

Start at: 2017-09-08 04:29:15

End at: 2017-09-08 04:29:45

```
# Below is generated by plot.py at 2017-09-08 10:15:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 149.38 Mbit/s
95th percentile per-packet one-way delay: 68.284 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 99.01 Mbit/s
95th percentile per-packet one-way delay: 70.085 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 56.35 Mbit/s
95th percentile per-packet one-way delay: 65.575 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 41.21 Mbit/s
95th percentile per-packet one-way delay: 57.530 ms
Loss rate: 1.47%
```

Run 2: Report of Verus — Data Link



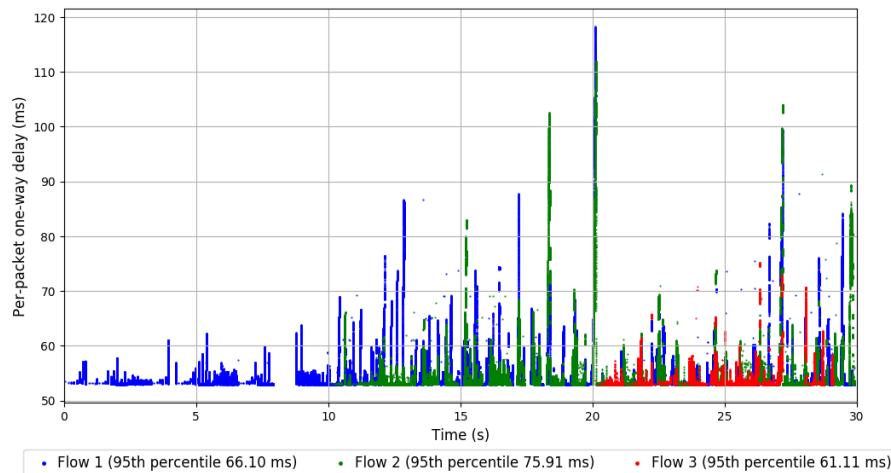
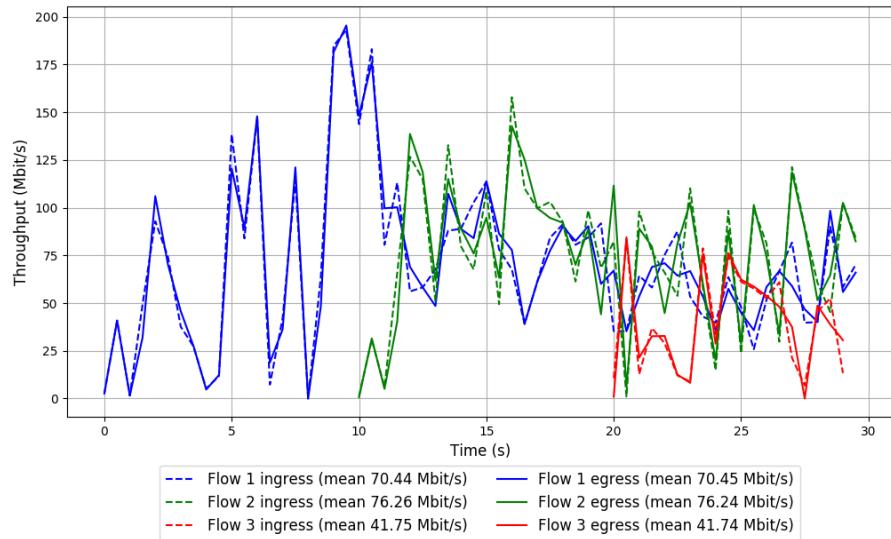
Run 3: Statistics of Verus

Start at: 2017-09-08 04:41:36

End at: 2017-09-08 04:42:06

```
# Below is generated by plot.py at 2017-09-08 10:15:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 133.65 Mbit/s
95th percentile per-packet one-way delay: 67.947 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 70.45 Mbit/s
95th percentile per-packet one-way delay: 66.097 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 76.24 Mbit/s
95th percentile per-packet one-way delay: 75.914 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 41.74 Mbit/s
95th percentile per-packet one-way delay: 61.112 ms
Loss rate: 0.00%
```

Run 3: Report of Verus — Data Link



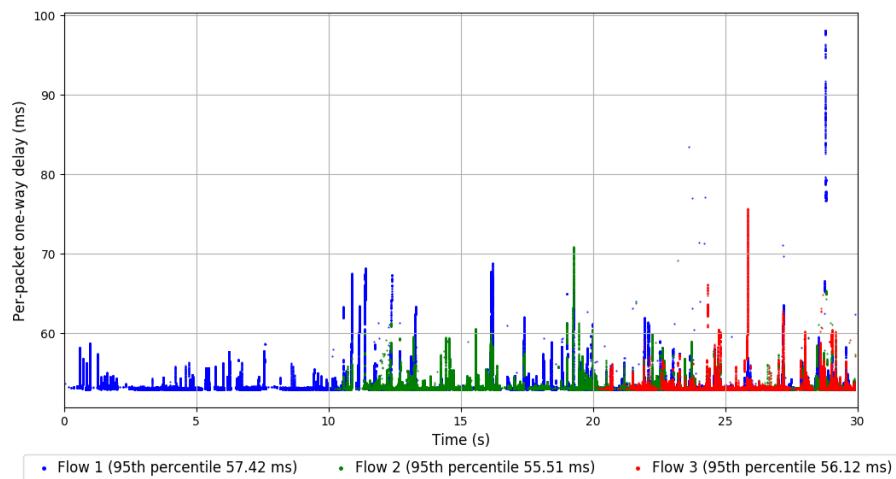
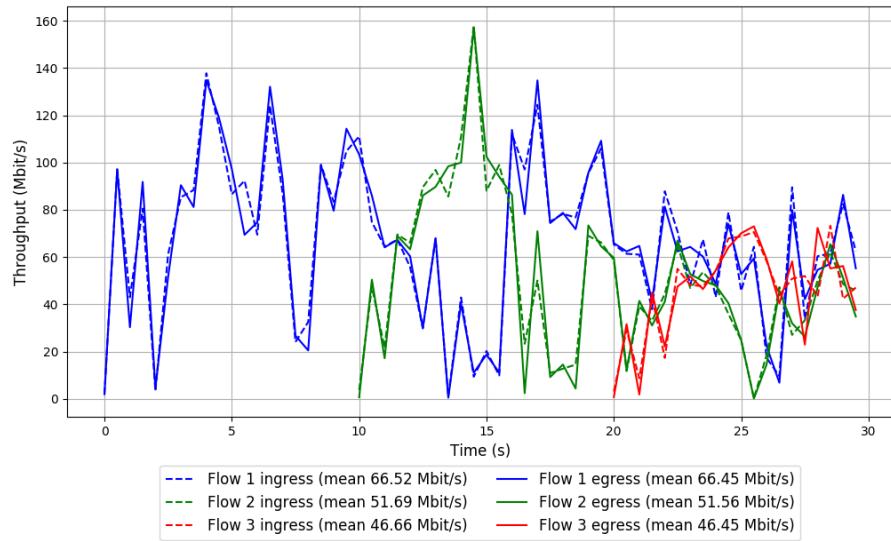
Run 4: Statistics of Verus

Start at: 2017-09-08 04:53:57

End at: 2017-09-08 04:54:27

```
# Below is generated by plot.py at 2017-09-08 10:15:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 115.87 Mbit/s
95th percentile per-packet one-way delay: 56.839 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 66.45 Mbit/s
95th percentile per-packet one-way delay: 57.421 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 51.56 Mbit/s
95th percentile per-packet one-way delay: 55.511 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 46.45 Mbit/s
95th percentile per-packet one-way delay: 56.115 ms
Loss rate: 1.49%
```

Run 4: Report of Verus — Data Link



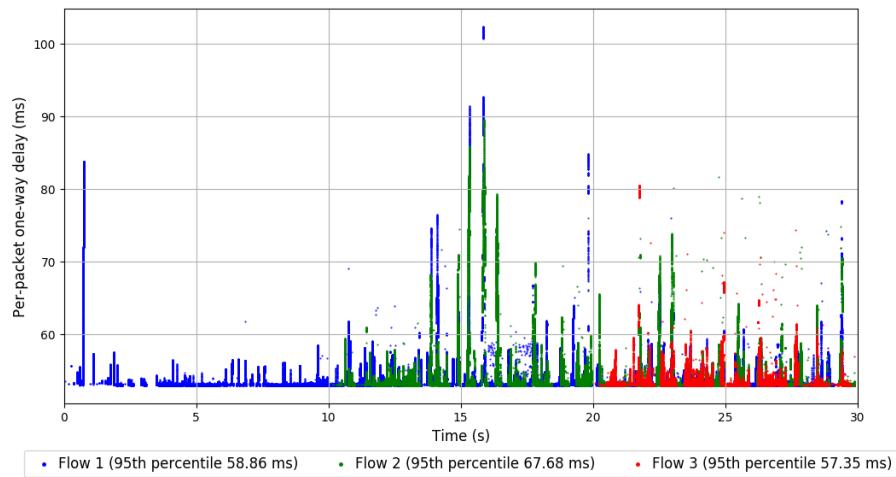
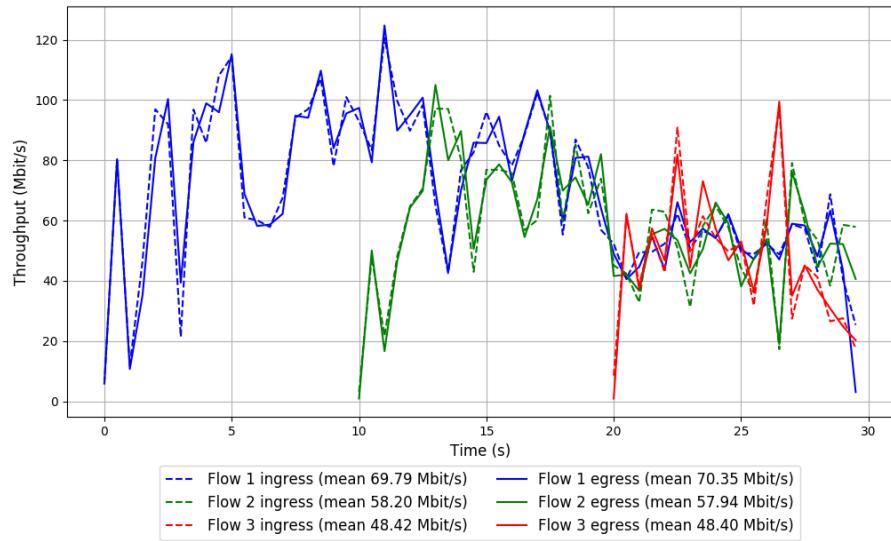
Run 5: Statistics of Verus

Start at: 2017-09-08 05:06:17

End at: 2017-09-08 05:06:47

```
# Below is generated by plot.py at 2017-09-08 10:15:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 123.94 Mbit/s
95th percentile per-packet one-way delay: 61.731 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 70.35 Mbit/s
95th percentile per-packet one-way delay: 58.860 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 57.94 Mbit/s
95th percentile per-packet one-way delay: 67.678 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 48.40 Mbit/s
95th percentile per-packet one-way delay: 57.346 ms
Loss rate: 0.00%
```

Run 5: Report of Verus — Data Link



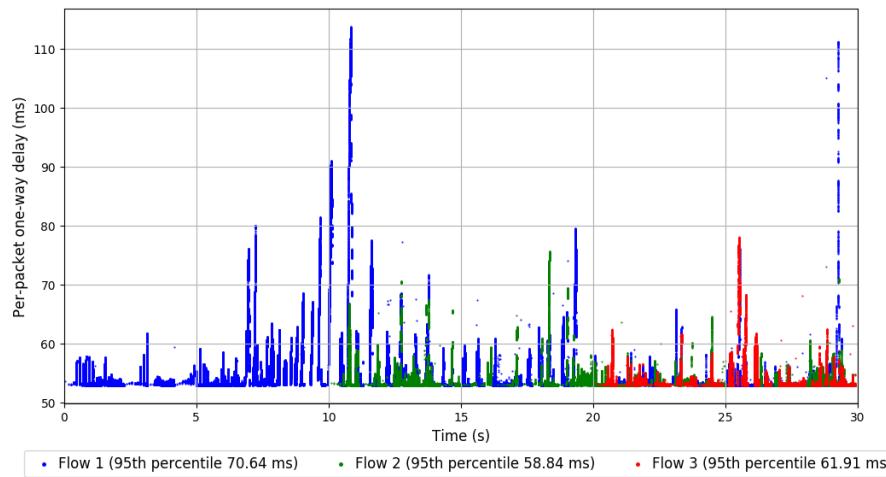
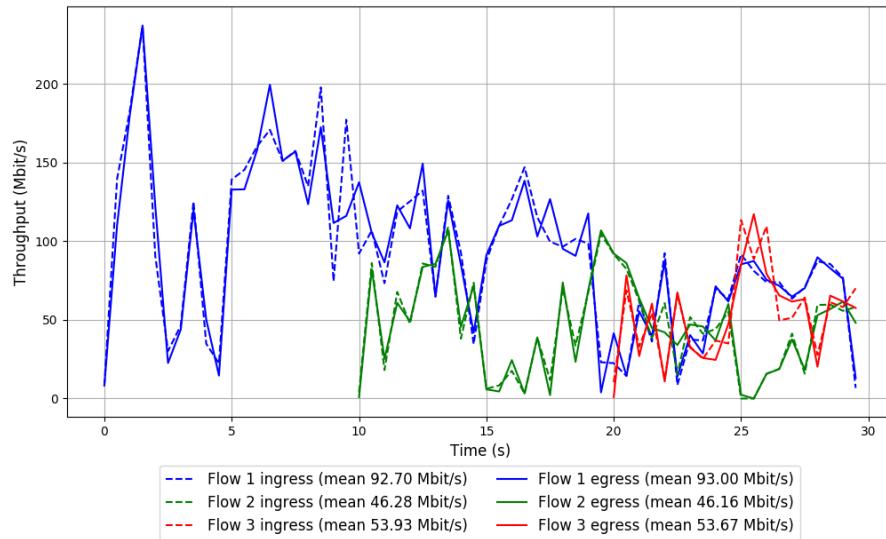
Run 6: Statistics of Verus

Start at: 2017-09-08 05:18:28

End at: 2017-09-08 05:18:58

```
# Below is generated by plot.py at 2017-09-08 10:15:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 141.20 Mbit/s
95th percentile per-packet one-way delay: 67.176 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 93.00 Mbit/s
95th percentile per-packet one-way delay: 70.640 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 46.16 Mbit/s
95th percentile per-packet one-way delay: 58.839 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 53.67 Mbit/s
95th percentile per-packet one-way delay: 61.909 ms
Loss rate: 1.62%
```

Run 6: Report of Verus — Data Link



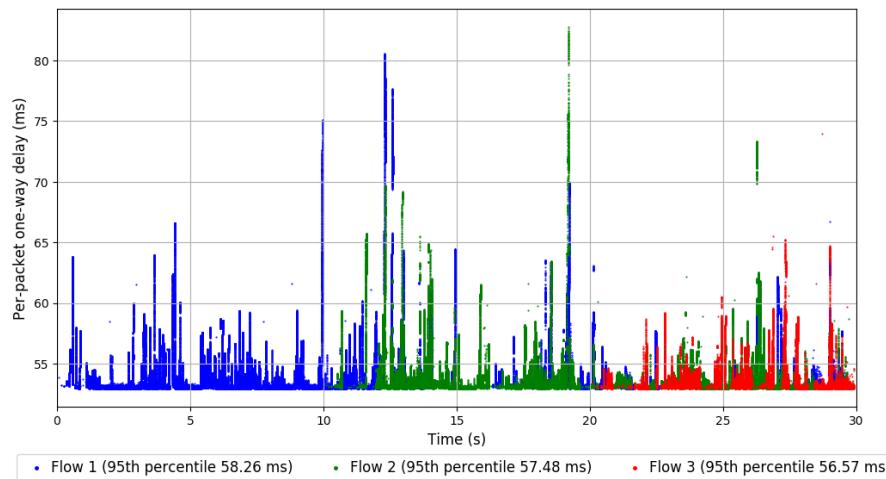
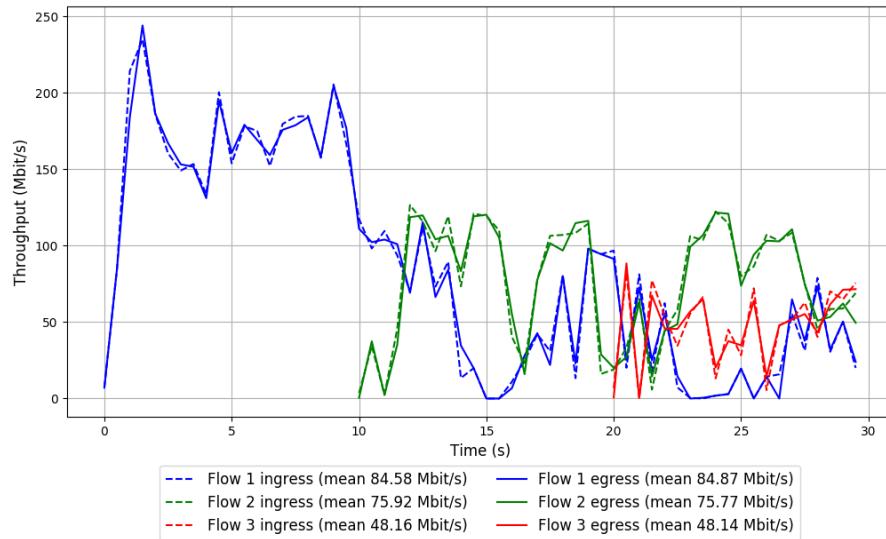
Run 7: Statistics of Verus

Start at: 2017-09-08 05:30:49

End at: 2017-09-08 05:31:19

```
# Below is generated by plot.py at 2017-09-08 10:15:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 150.82 Mbit/s
95th percentile per-packet one-way delay: 57.832 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 84.87 Mbit/s
95th percentile per-packet one-way delay: 58.263 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 75.77 Mbit/s
95th percentile per-packet one-way delay: 57.476 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 48.14 Mbit/s
95th percentile per-packet one-way delay: 56.568 ms
Loss rate: 1.14%
```

Run 7: Report of Verus — Data Link



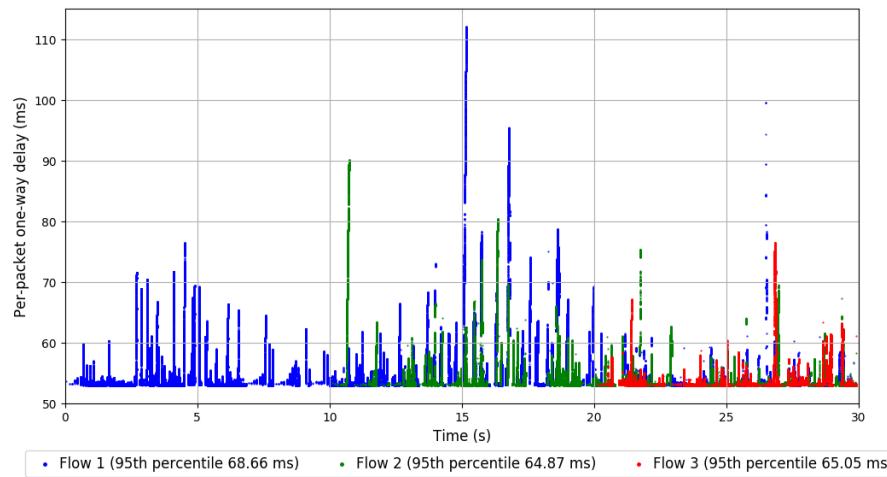
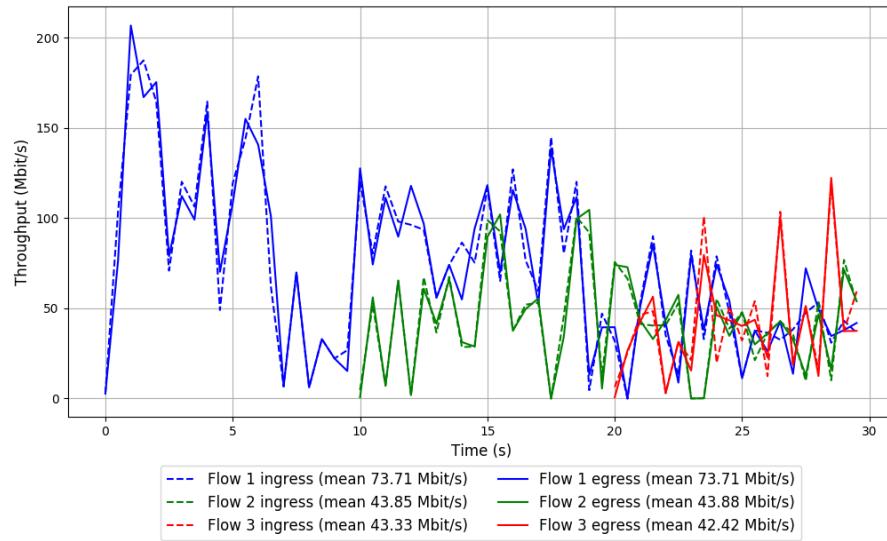
Run 8: Statistics of Verus

Start at: 2017-09-08 05:43:15

End at: 2017-09-08 05:43:45

```
# Below is generated by plot.py at 2017-09-08 10:16:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 116.64 Mbit/s
95th percentile per-packet one-way delay: 67.567 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 73.71 Mbit/s
95th percentile per-packet one-way delay: 68.655 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 43.88 Mbit/s
95th percentile per-packet one-way delay: 64.867 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 42.42 Mbit/s
95th percentile per-packet one-way delay: 65.049 ms
Loss rate: 3.05%
```

Run 8: Report of Verus — Data Link



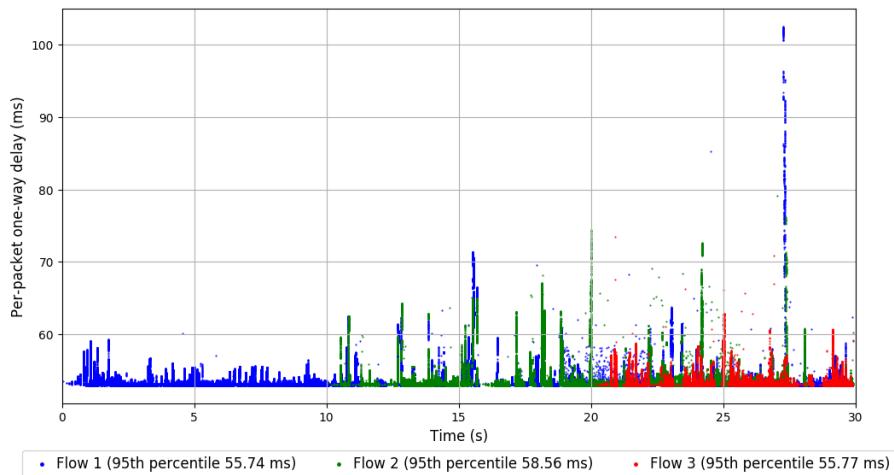
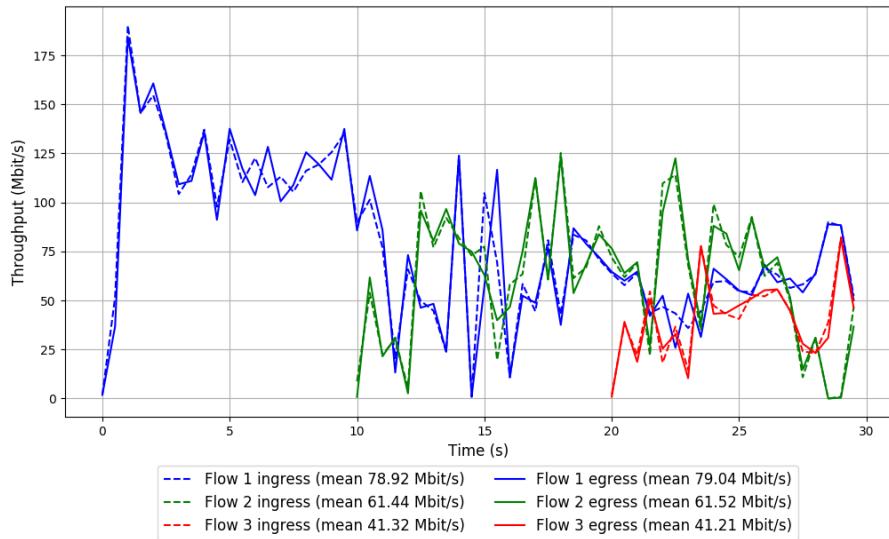
Run 9: Statistics of Verus

Start at: 2017-09-08 05:55:24

End at: 2017-09-08 05:55:54

```
# Below is generated by plot.py at 2017-09-08 10:16:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 133.38 Mbit/s
95th percentile per-packet one-way delay: 56.491 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 79.04 Mbit/s
95th percentile per-packet one-way delay: 55.743 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 61.52 Mbit/s
95th percentile per-packet one-way delay: 58.559 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 41.21 Mbit/s
95th percentile per-packet one-way delay: 55.765 ms
Loss rate: 1.34%
```

Run 9: Report of Verus — Data Link



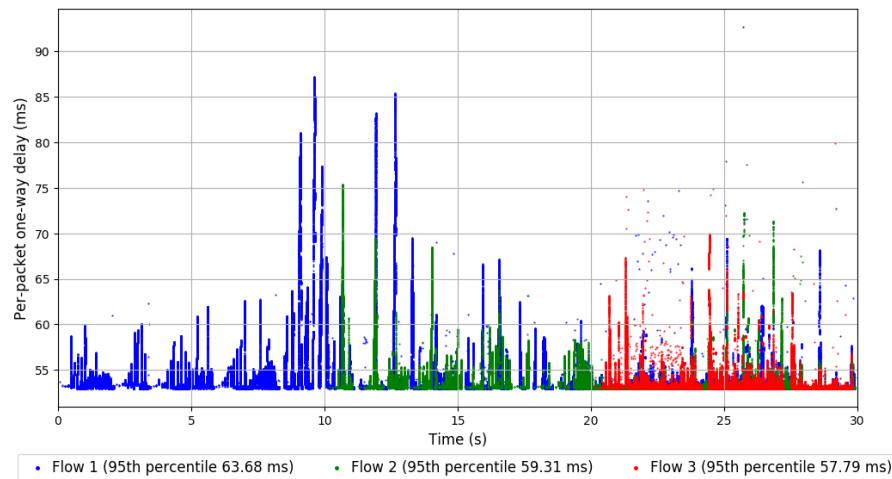
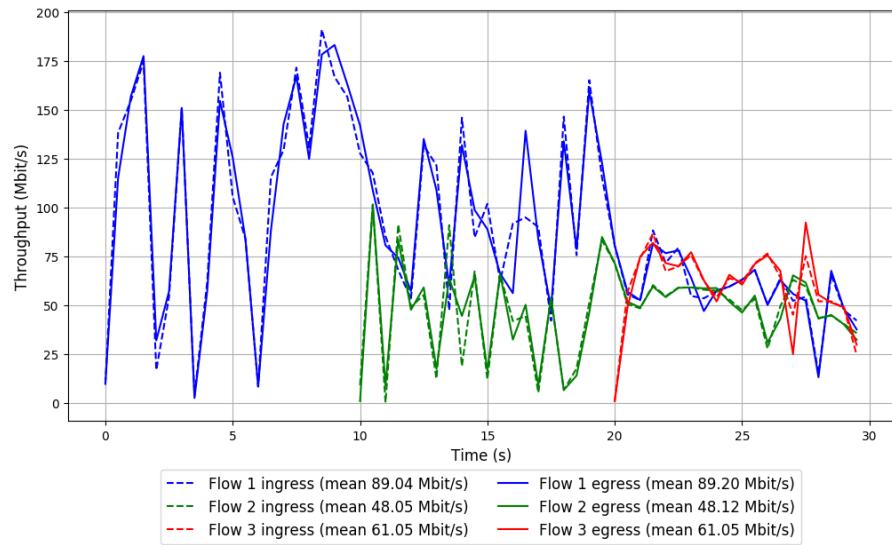
Run 10: Statistics of Verus

Start at: 2017-09-08 06:07:48

End at: 2017-09-08 06:08:18

```
# Below is generated by plot.py at 2017-09-08 10:16:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 140.95 Mbit/s
95th percentile per-packet one-way delay: 62.037 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 89.20 Mbit/s
95th percentile per-packet one-way delay: 63.681 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 48.12 Mbit/s
95th percentile per-packet one-way delay: 59.314 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 61.05 Mbit/s
95th percentile per-packet one-way delay: 57.790 ms
Loss rate: 0.00%
```

Run 10: Report of Verus — Data Link

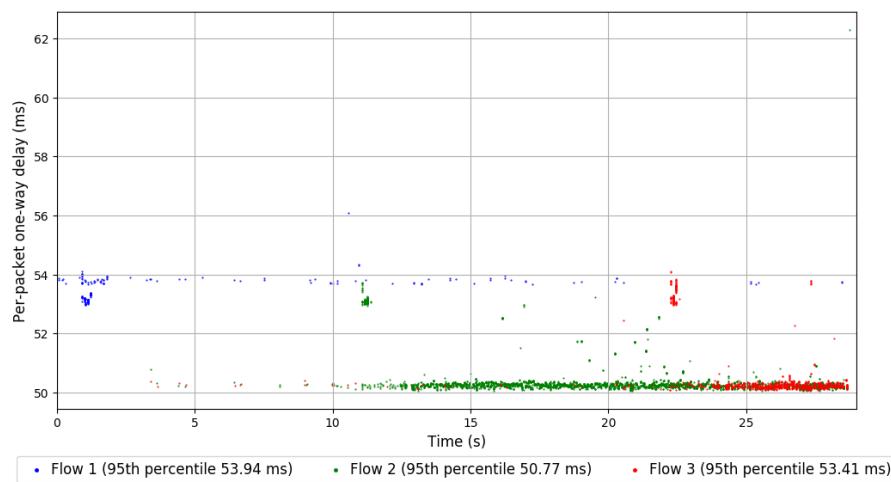
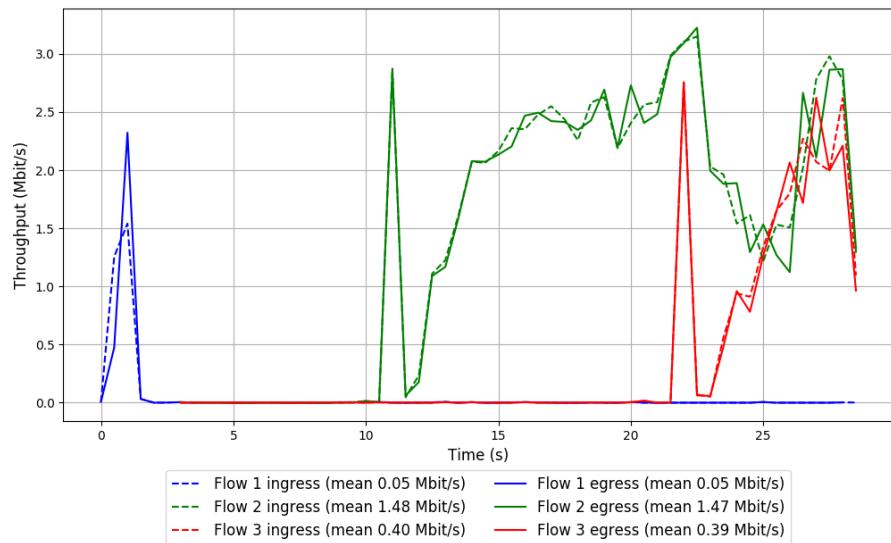


```
Run 1: Statistics of WebRTC media

Start at: 2017-09-08 04:23:07
End at: 2017-09-08 04:23:37

# Below is generated by plot.py at 2017-09-08 10:16:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.69 Mbit/s
95th percentile per-packet one-way delay: 53.156 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 53.941 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 1.47 Mbit/s
95th percentile per-packet one-way delay: 50.768 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 53.414 ms
Loss rate: 2.69%
```

Run 1: Report of WebRTC media — Data Link



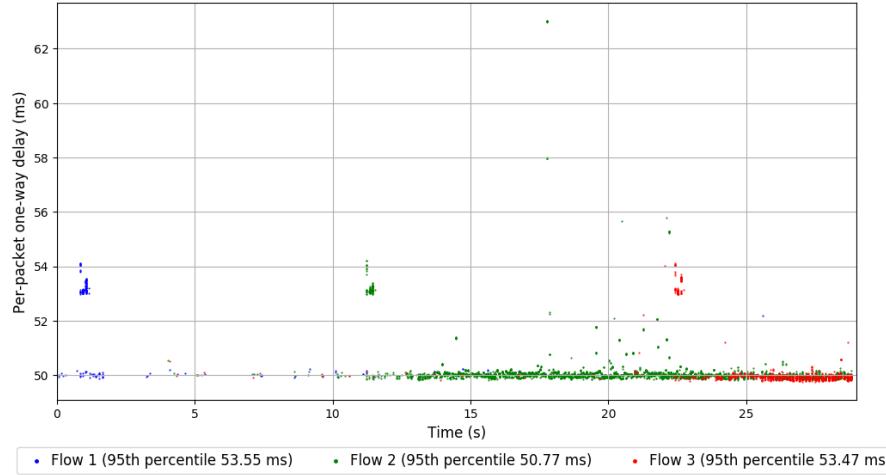
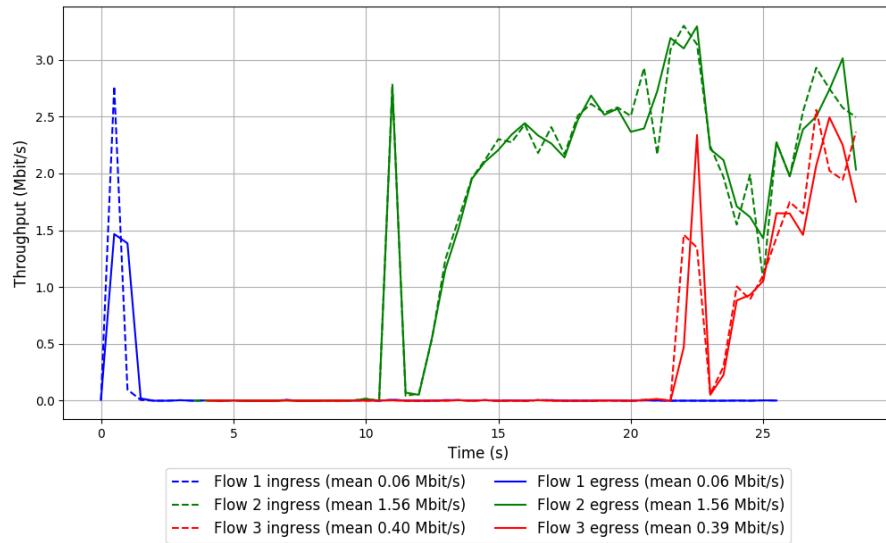
Run 2: Statistics of WebRTC media

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

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

```
# Below is generated by plot.py at 2017-09-08 10:16:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.73 Mbit/s
95th percentile per-packet one-way delay: 53.071 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 53.555 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.56 Mbit/s
95th percentile per-packet one-way delay: 50.767 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 53.469 ms
Loss rate: 3.10%
```

Run 2: Report of WebRTC media — Data Link

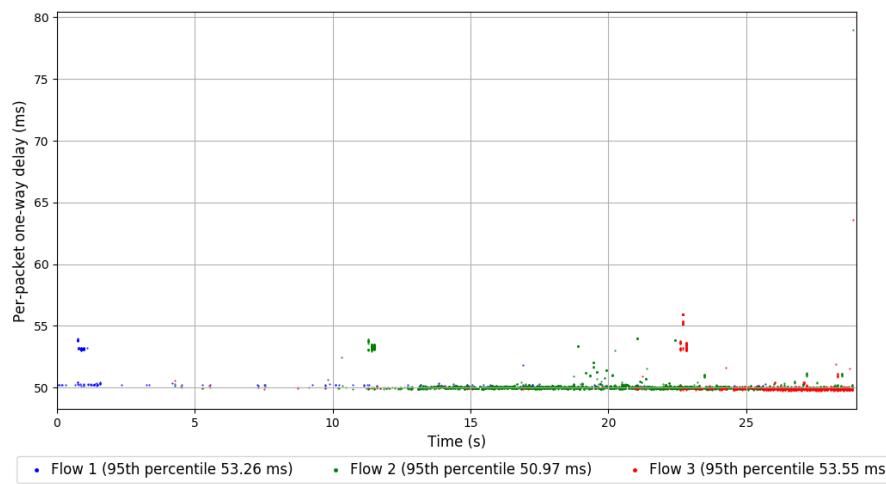
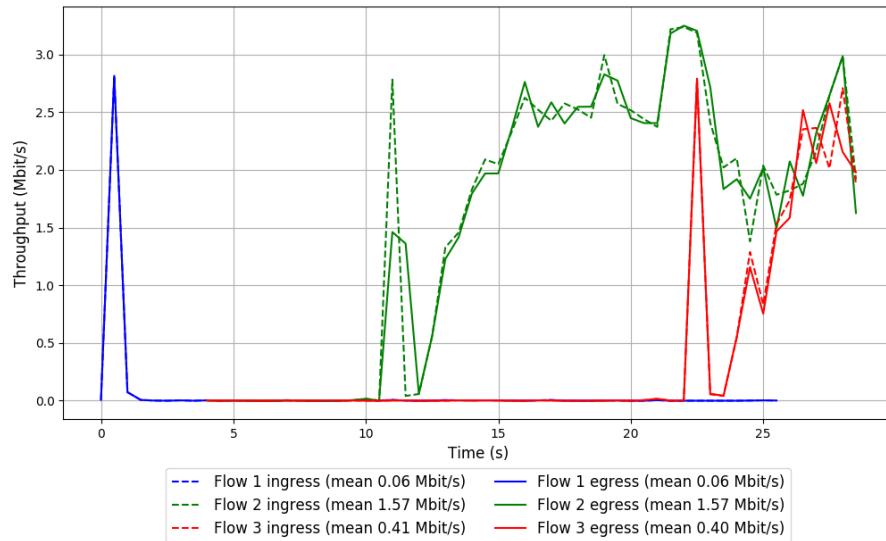


```
Run 3: Statistics of WebRTC media

Start at: 2017-09-08 04:47:56
End at: 2017-09-08 04:48:26

# Below is generated by plot.py at 2017-09-08 10:16:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.73 Mbit/s
95th percentile per-packet one-way delay: 53.141 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 53.258 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.57 Mbit/s
95th percentile per-packet one-way delay: 50.973 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 53.554 ms
Loss rate: 2.24%
```

Run 3: Report of WebRTC media — Data Link

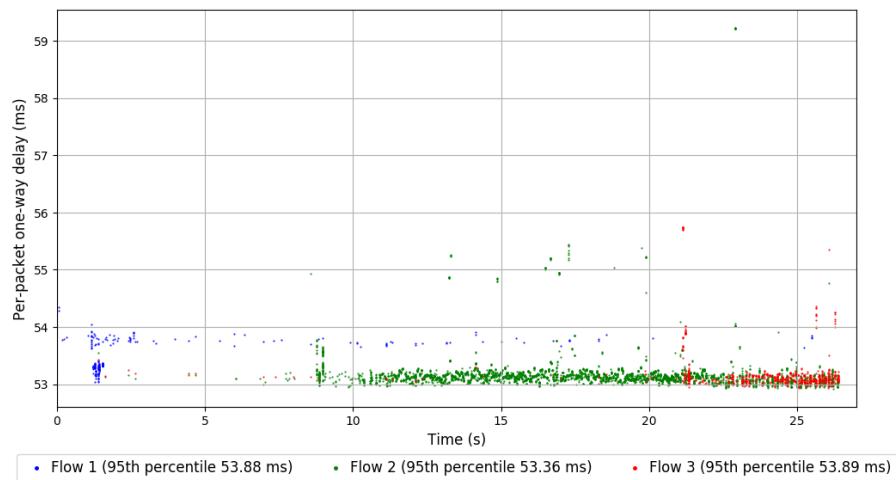
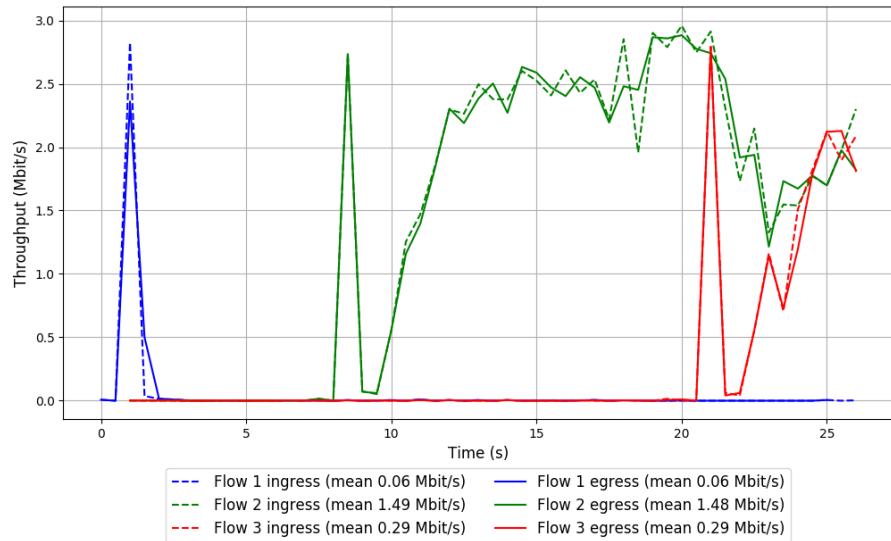


```
Run 4: Statistics of WebRTC media

Start at: 2017-09-08 05:00:13
End at: 2017-09-08 05:00:43

# Below is generated by plot.py at 2017-09-08 10:16:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.74 Mbit/s
95th percentile per-packet one-way delay: 53.646 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 53.880 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 1.48 Mbit/s
95th percentile per-packet one-way delay: 53.360 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 53.890 ms
Loss rate: 2.65%
```

Run 4: Report of WebRTC media — Data Link

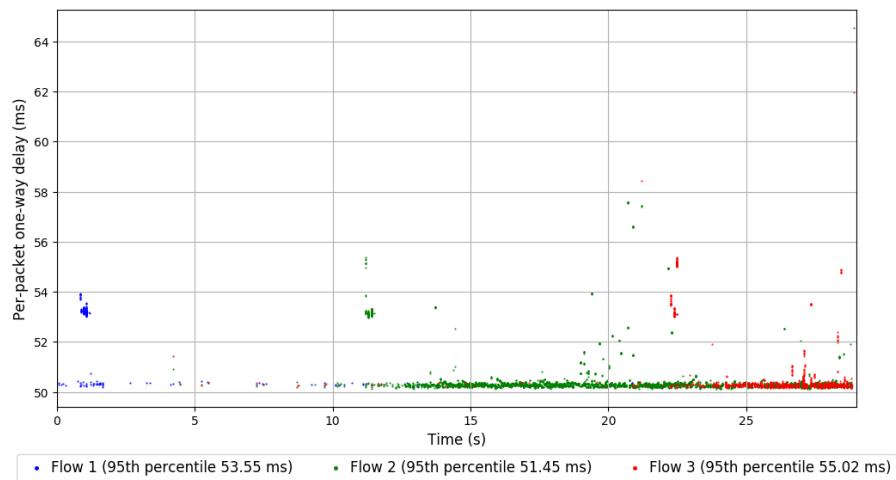
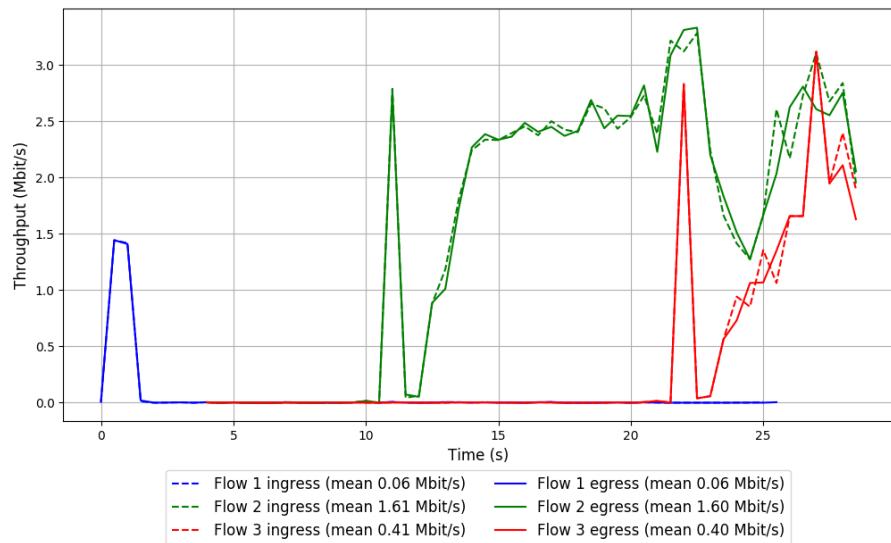


```
Run 5: Statistics of WebRTC media

Start at: 2017-09-08 05:12:36
End at: 2017-09-08 05:13:06

# Below is generated by plot.py at 2017-09-08 10:16:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.76 Mbit/s
95th percentile per-packet one-way delay: 53.168 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 53.547 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.60 Mbit/s
95th percentile per-packet one-way delay: 51.453 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 55.025 ms
Loss rate: 2.72%
```

Run 5: Report of WebRTC media — Data Link



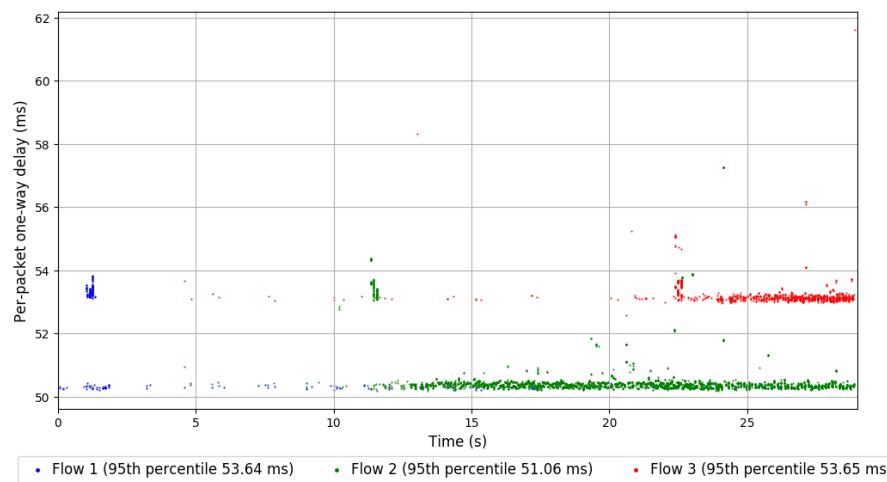
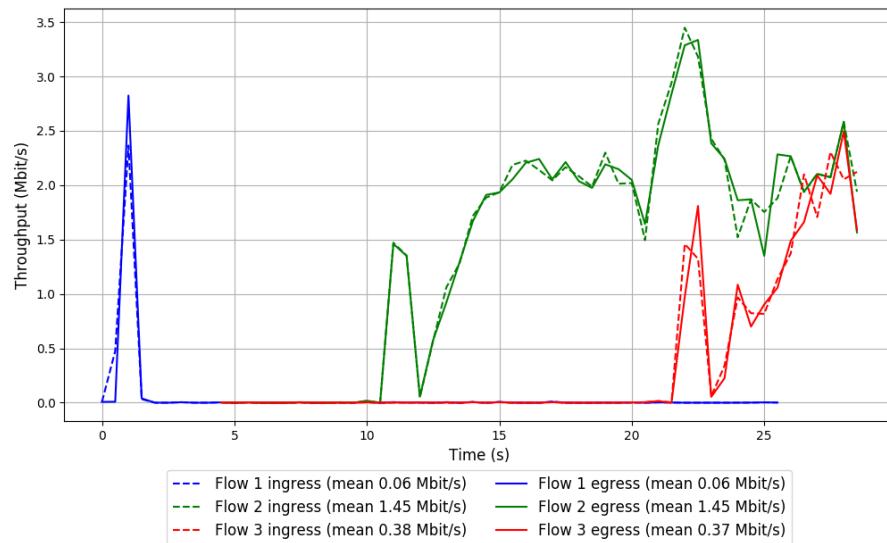
Run 6: Statistics of WebRTC media

Start at: 2017-09-08 05:24:46

End at: 2017-09-08 05:25:16

```
# Below is generated by plot.py at 2017-09-08 10:16:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.58 Mbit/s
95th percentile per-packet one-way delay: 53.359 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 53.644 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.45 Mbit/s
95th percentile per-packet one-way delay: 51.062 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 53.651 ms
Loss rate: 2.88%
```

Run 6: Report of WebRTC media — Data Link

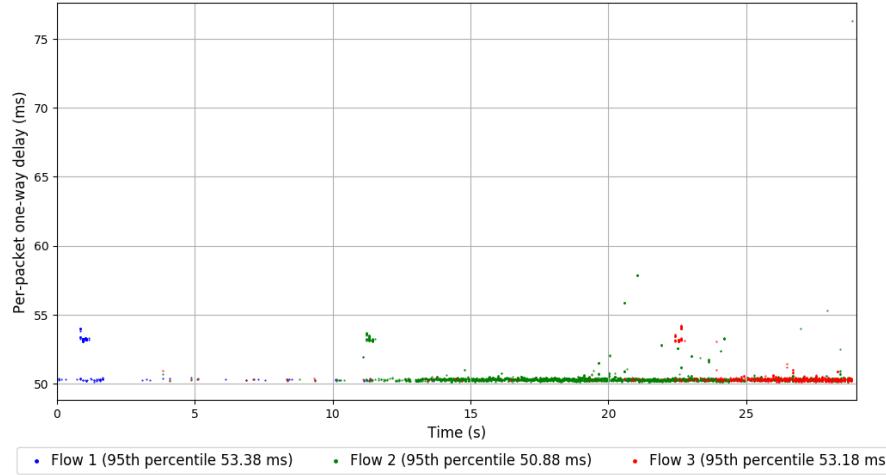
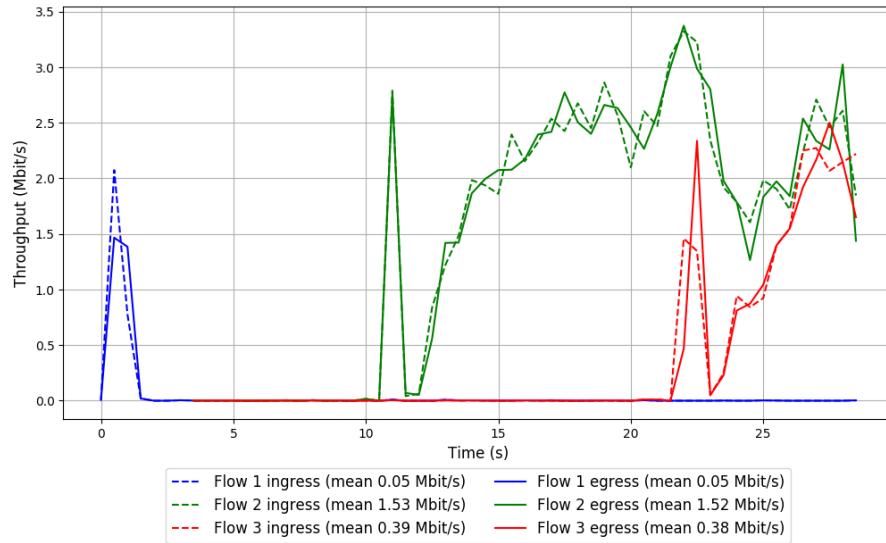


```
Run 7: Statistics of WebRTC media

Start at: 2017-09-08 05:37:22
End at: 2017-09-08 05:37:52

# Below is generated by plot.py at 2017-09-08 10:16:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.70 Mbit/s
95th percentile per-packet one-way delay: 53.144 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 53.385 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.52 Mbit/s
95th percentile per-packet one-way delay: 50.882 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 53.179 ms
Loss rate: 2.89%
```

Run 7: Report of WebRTC media — Data Link

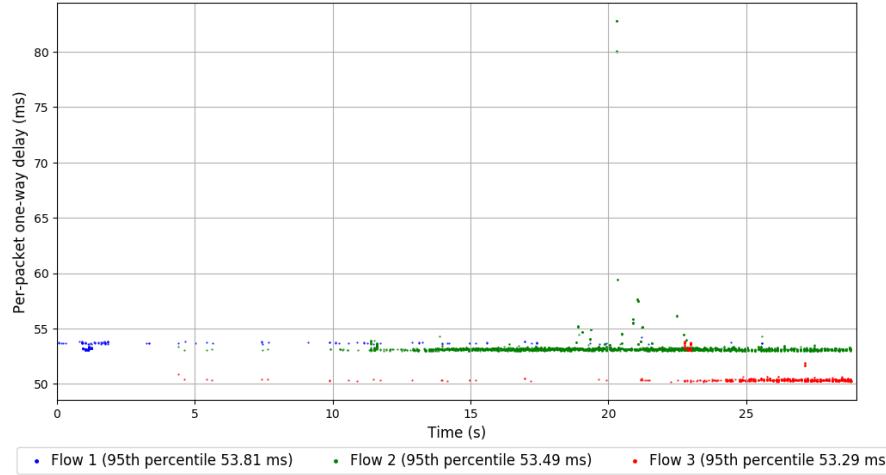
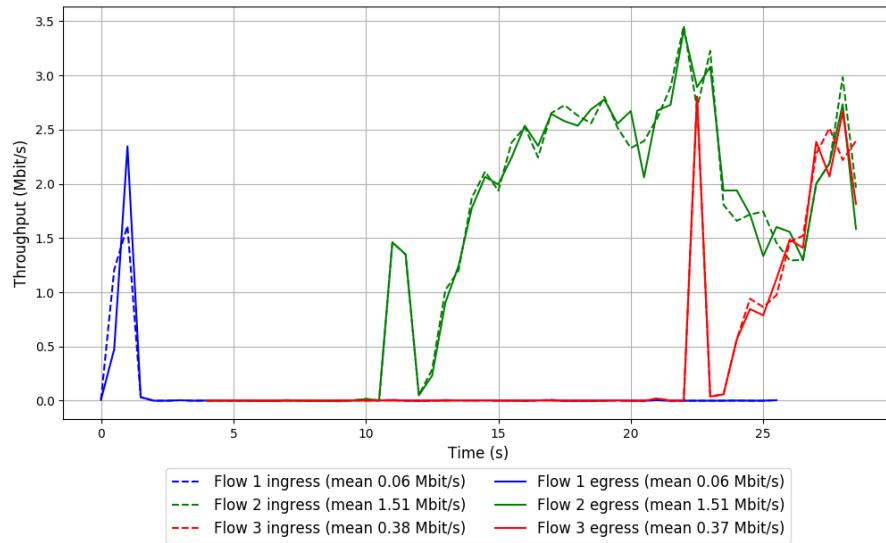


```
Run 8: Statistics of WebRTC media

Start at: 2017-09-08 05:49:30
End at: 2017-09-08 05:50:00

# Below is generated by plot.py at 2017-09-08 10:16:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.64 Mbit/s
95th percentile per-packet one-way delay: 53.649 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 53.806 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.51 Mbit/s
95th percentile per-packet one-way delay: 53.487 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 53.292 ms
Loss rate: 3.11%
```

Run 8: Report of WebRTC media — Data Link

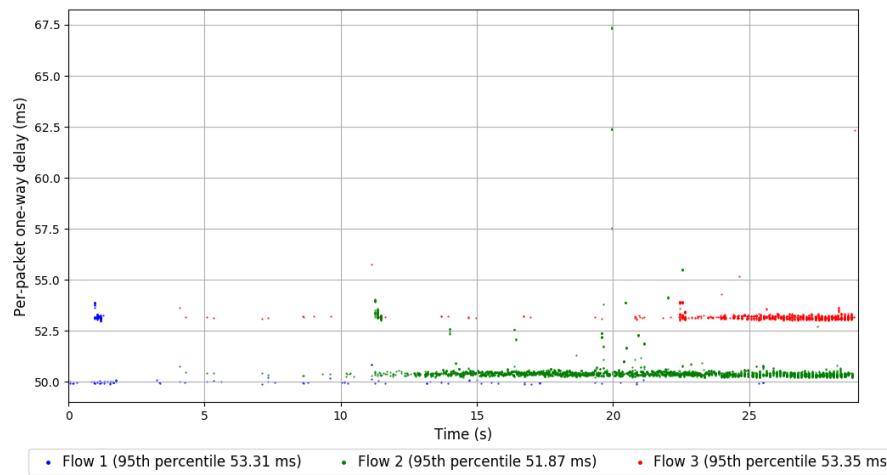
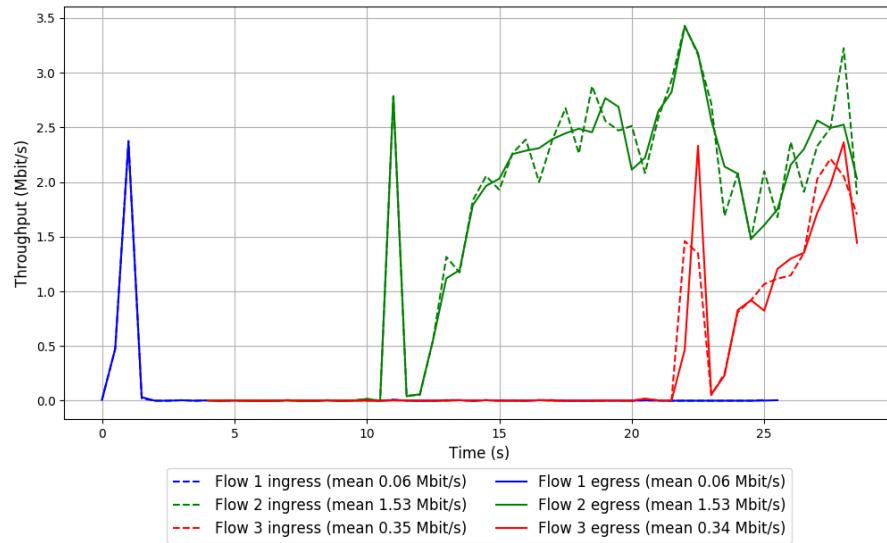


```
Run 9: Statistics of WebRTC media

Start at: 2017-09-08 06:01:46
End at: 2017-09-08 06:02:16

# Below is generated by plot.py at 2017-09-08 10:16:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.66 Mbit/s
95th percentile per-packet one-way delay: 53.250 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 53.311 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.53 Mbit/s
95th percentile per-packet one-way delay: 51.867 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 53.350 ms
Loss rate: 2.81%
```

Run 9: Report of WebRTC media — Data Link



```
Run 10: Statistics of WebRTC media

Start at: 2017-09-08 06:14:08
End at: 2017-09-08 06:14:38

# Below is generated by plot.py at 2017-09-08 10:16:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.65 Mbit/s
95th percentile per-packet one-way delay: 53.216 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 53.546 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.52 Mbit/s
95th percentile per-packet one-way delay: 51.439 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 53.284 ms
Loss rate: 2.38%
```

Run 10: Report of WebRTC media — Data Link

