

Pantheon Report

Generated at 2017-08-12 18:01:36 (UTC).

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

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.

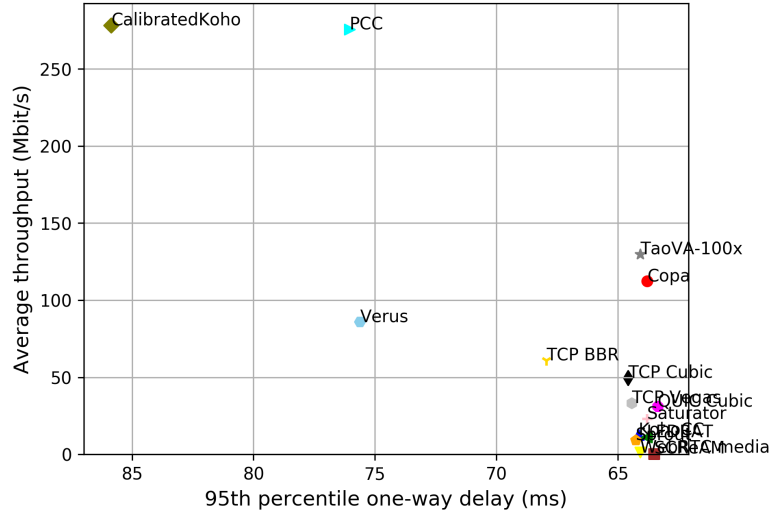
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

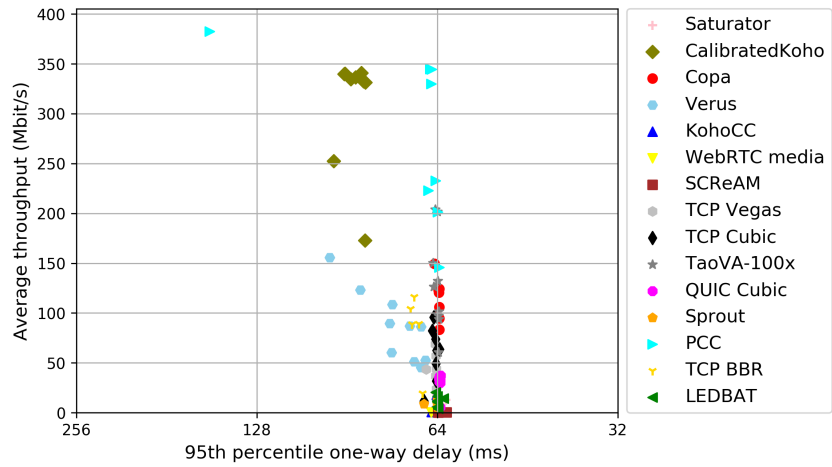
Git summary:

```
branch: master @ e43be7582298d552838afcf6382342bf187fbbd6
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/genericCC @ dae96123232f1bcb37725348fa2378691ce26725
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-stimuli @ fc73a85ca16c34366d1888dc8a0d0d88d4ebf2a7
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeab30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  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 Iowa Ethernet to GCE Tokyo Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



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



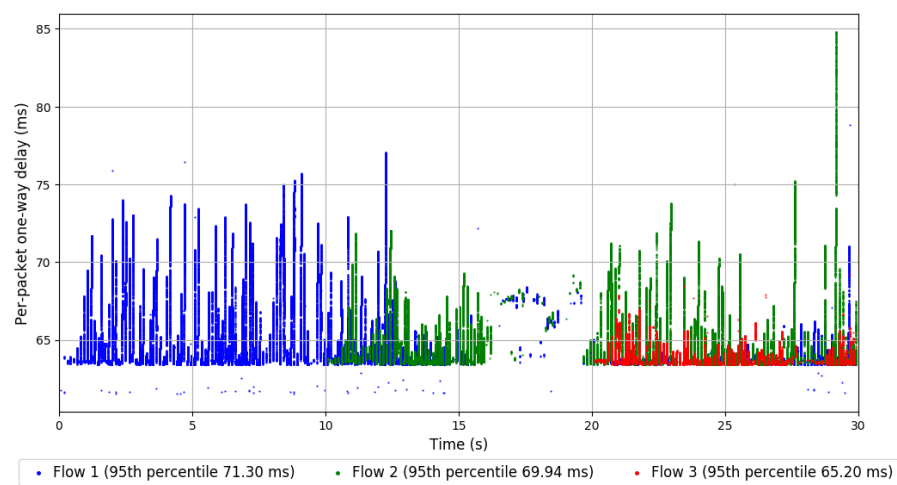
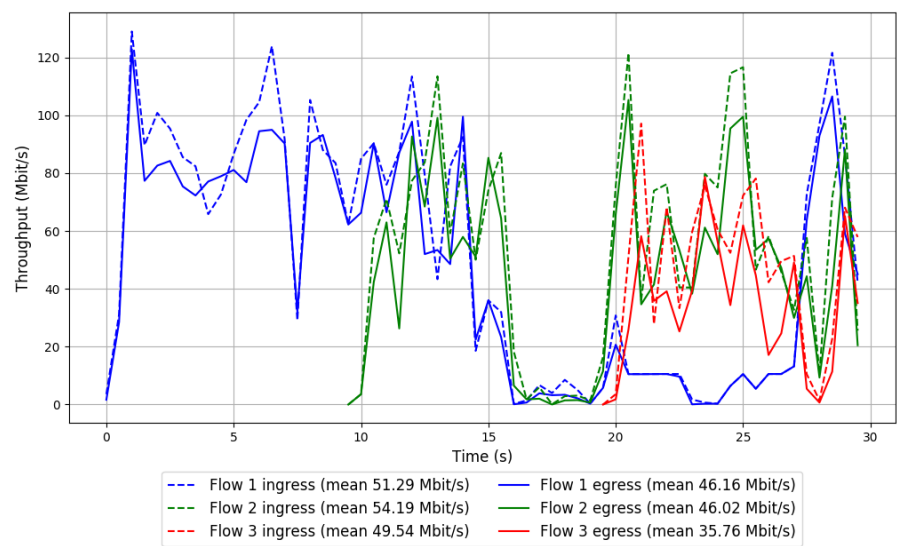
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	7	38.53	25.41	23.46	584.56	67.04	65.38	13.73	24.02	23.29
CalibratedKoho	10	175.08	124.32	62.99	84.97	80.26	80.84	15.75	14.25	27.34
Copa	8	86.67	62.89	53.68	63.68	63.76	64.27	2.73	1.49	4.19
TCP Cubic	10	30.28	17.36	23.81	64.53	64.60	63.88	1.68	4.45	4.36
KohoCC	10	6.90	6.50	5.57	106.22	63.95	64.41	19.23	28.49	35.98
LEDBAT	8	6.43	5.13	4.05	63.77	63.70	64.18	2.13	3.04	3.69
PCC	8	166.94	114.25	100.21	75.80	64.40	64.27	34.28	9.49	16.93
QUIC Cubic	10	0.05	33.48	27.73	63.15	62.55	63.40	0.00	0.04	0.06
Saturator	6	14.89	16.60	15.30	64.44	63.73	64.27	16.12	9.74	0.43
SCReAM	10	0.22	0.22	0.22	63.06	63.05	62.82	0.00	0.00	0.00
Sprout	10	4.79	4.67	4.18	64.24	64.22	63.83	6.40	6.56	7.09
TaoVA-100x	9	146.12	88.12	92.99	69.41	64.26	64.00	13.71	4.39	3.80
TCP Vegas	9	16.19	18.46	18.76	596.74	64.03	65.43	1.37	1.83	3.56
Verus	10	45.14	45.47	33.65	76.93	83.97	66.95	40.96	21.52	31.24
WebRTC media	6	0.06	1.54	0.37	82.52	64.04	64.34	0.00	0.00	0.00

```
Run 1: Statistics of TCP BBR

Start at: 2017-08-12 14:38:00
End at: 2017-08-12 14:38:30

# Below is generated by plot.py at 2017-08-12 17:39:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.77 Mbit/s
95th percentile per-packet one-way delay: 70.566 ms
Loss rate: 14.58%
-- Flow 1:
Average throughput: 46.16 Mbit/s
95th percentile per-packet one-way delay: 71.296 ms
Loss rate: 9.98%
-- Flow 2:
Average throughput: 46.02 Mbit/s
95th percentile per-packet one-way delay: 69.937 ms
Loss rate: 15.07%
-- Flow 3:
Average throughput: 35.76 Mbit/s
95th percentile per-packet one-way delay: 65.199 ms
Loss rate: 27.81%
```

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-08-12 14:49:33

End at: 2017-08-12 14:50:03

Below is generated by plot.py at 2017-08-12 17:39:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 116.35 Mbit/s

95th percentile per-packet one-way delay: 70.000 ms

Loss rate: 12.02%

-- Flow 1:

Average throughput: 69.50 Mbit/s

95th percentile per-packet one-way delay: 69.725 ms

Loss rate: 9.20%

-- Flow 2:

Average throughput: 50.17 Mbit/s

95th percentile per-packet one-way delay: 71.357 ms

Loss rate: 9.21%

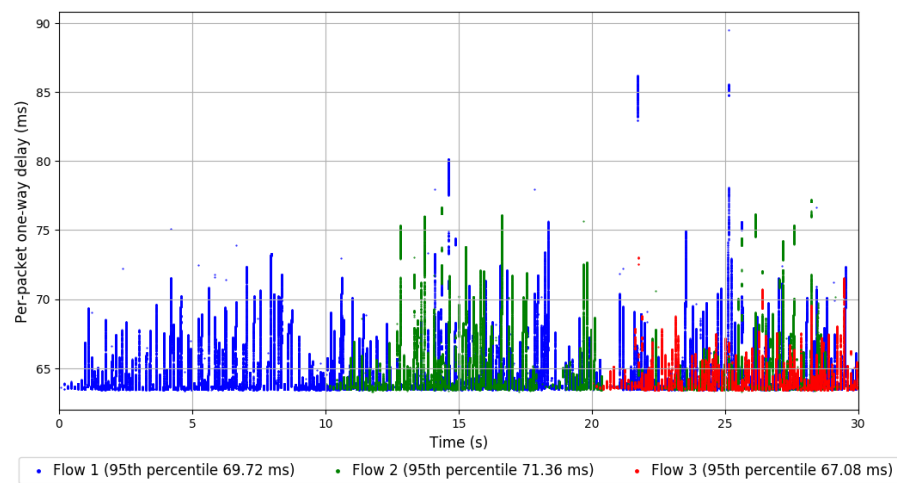
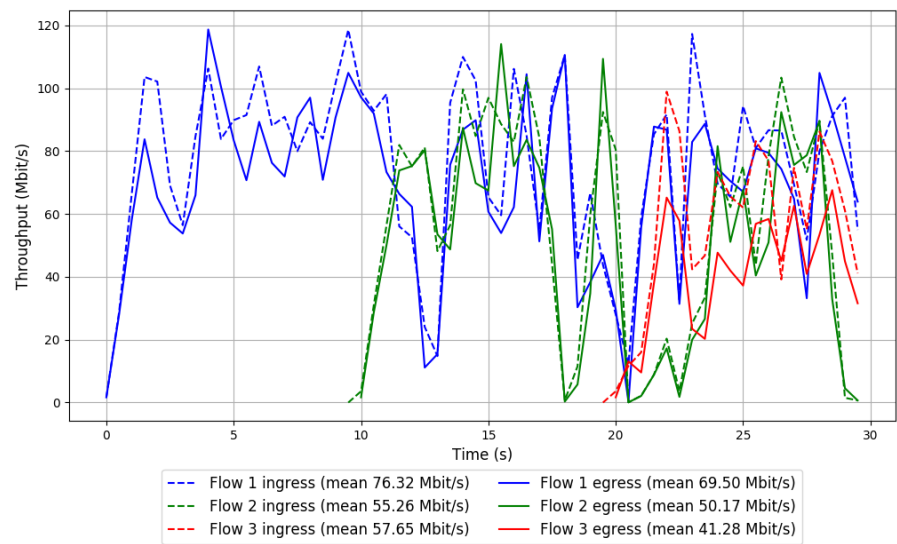
-- Flow 3:

Average throughput: 41.28 Mbit/s

95th percentile per-packet one-way delay: 67.075 ms

Loss rate: 28.64%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-08-12 15:01:26

End at: 2017-08-12 15:01:56

Below is generated by plot.py at 2017-08-12 17:39:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 104.04 Mbit/s

95th percentile per-packet one-way delay: 70.959 ms

Loss rate: 10.77%

-- Flow 1:

Average throughput: 44.23 Mbit/s

95th percentile per-packet one-way delay: 70.342 ms

Loss rate: 15.30%

-- Flow 2:

Average throughput: 74.20 Mbit/s

95th percentile per-packet one-way delay: 71.959 ms

Loss rate: 4.56%

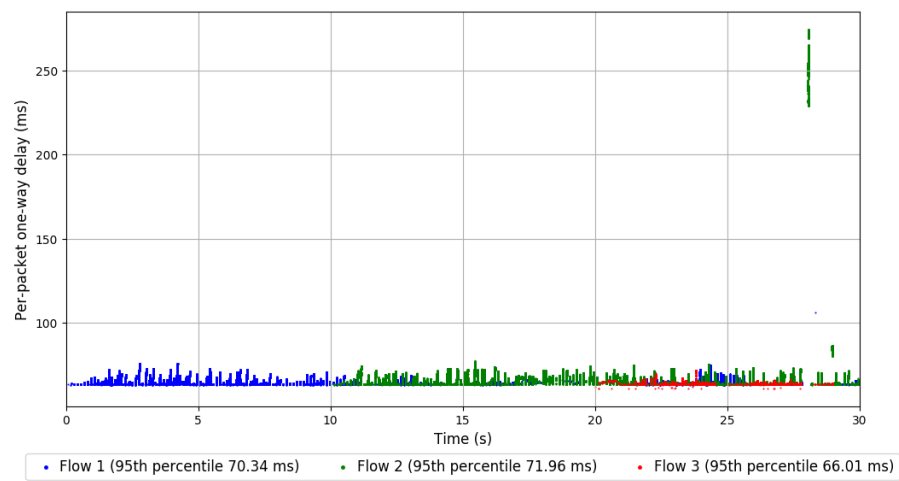
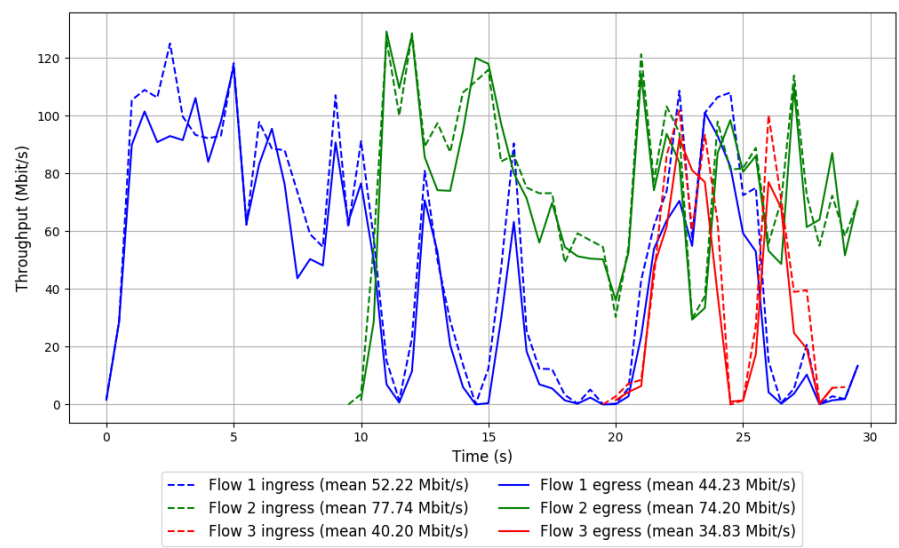
-- Flow 3:

Average throughput: 34.83 Mbit/s

95th percentile per-packet one-way delay: 66.009 ms

Loss rate: 17.56%

Run 3: Report of TCP BBR — Data Link

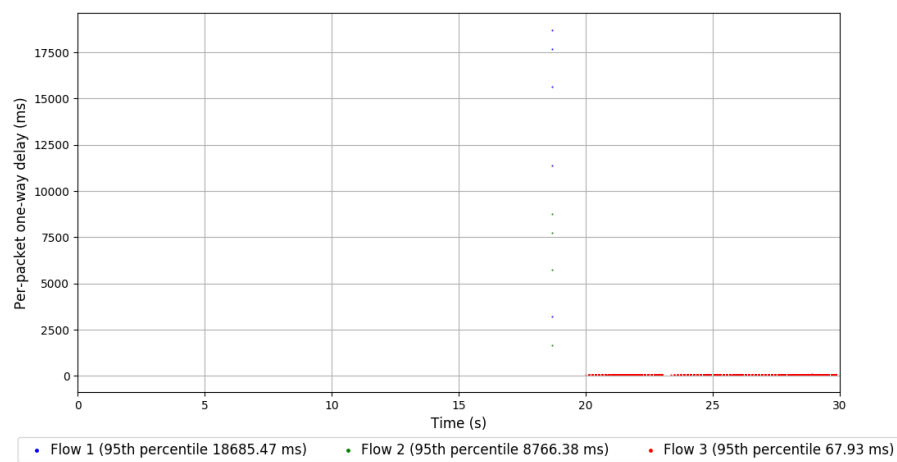
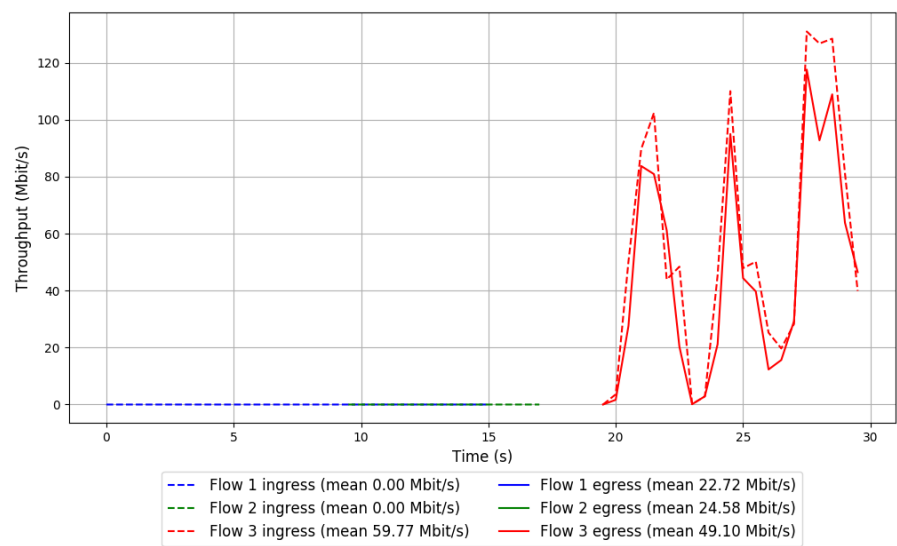


Run 4: Statistics of TCP BBR

Start at: 2017-08-12 15:13:16

End at: 2017-08-12 15:13:46

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-08-12 15:25:10

End at: 2017-08-12 15:25:40

Below is generated by plot.py at 2017-08-12 17:39:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.43 Mbit/s

95th percentile per-packet one-way delay: 67.780 ms

Loss rate: 18.17%

-- Flow 1:

Average throughput: 16.82 Mbit/s

95th percentile per-packet one-way delay: 3684.369 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 2.48 Mbit/s

95th percentile per-packet one-way delay: 63.678 ms

Loss rate: 17.14%

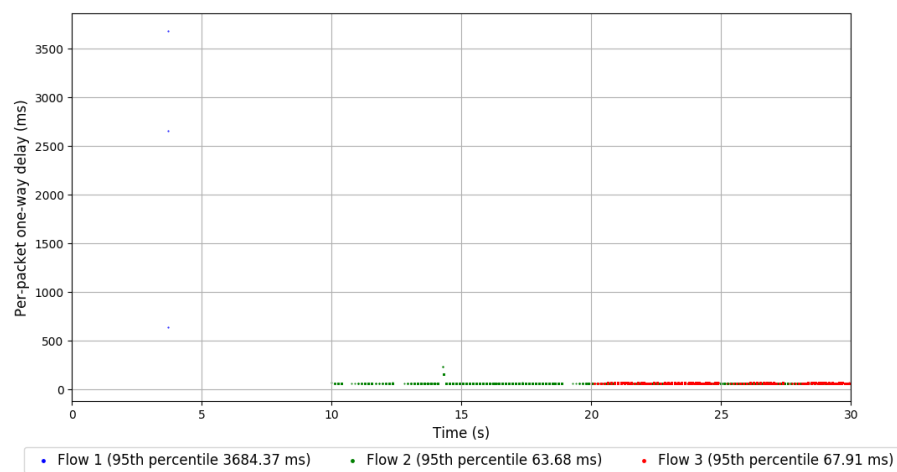
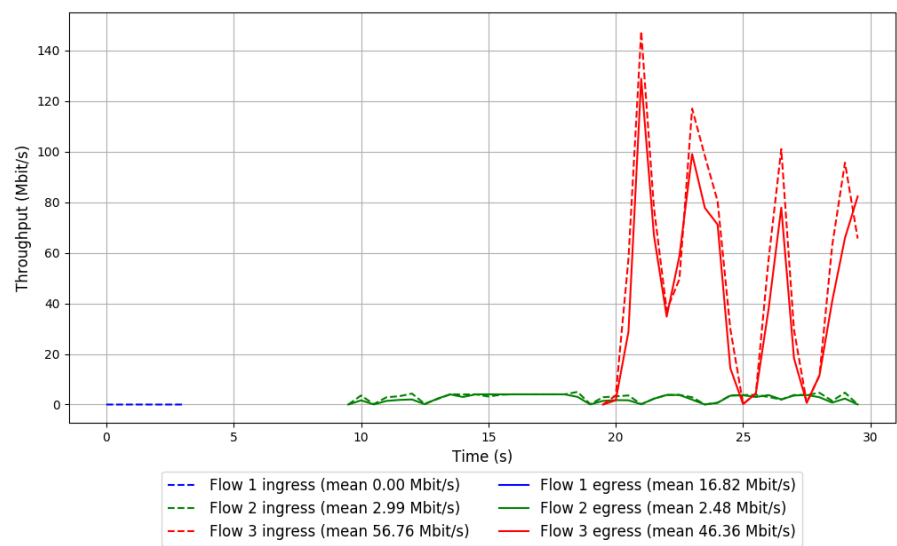
-- Flow 3:

Average throughput: 46.36 Mbit/s

95th percentile per-packet one-way delay: 67.912 ms

Loss rate: 18.27%

Run 5: Report of TCP BBR — Data Link

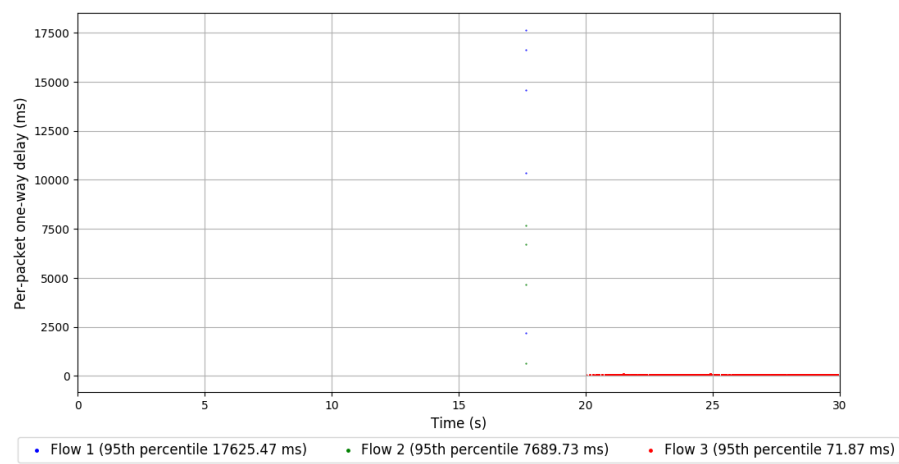
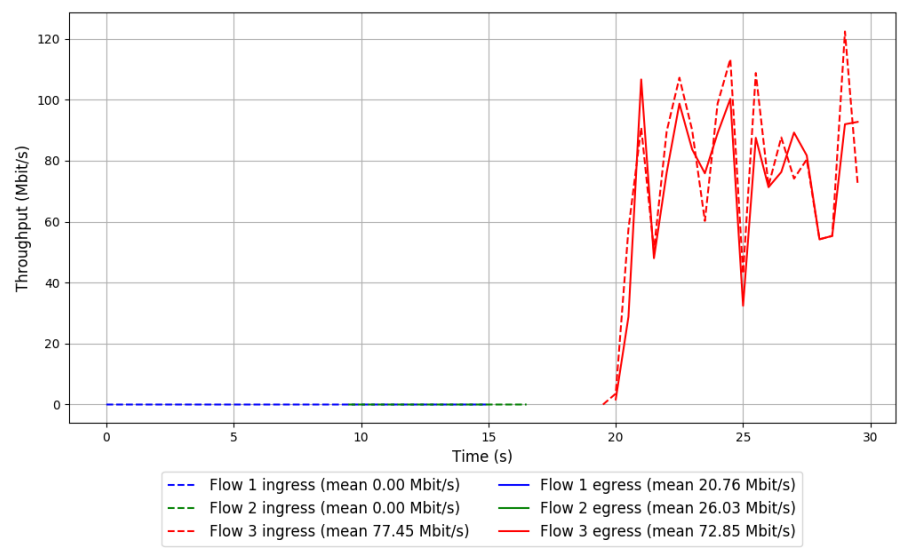


Run 6: Statistics of TCP BBR

Start at: 2017-08-12 15:36:50

End at: 2017-08-12 15:37:20

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-08-12 15:48:22

End at: 2017-08-12 15:48:52

Below is generated by plot.py at 2017-08-12 17:40:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.40 Mbit/s

95th percentile per-packet one-way delay: 63.818 ms

Loss rate: 27.45%

-- Flow 1:

Average throughput: 2.43 Mbit/s

95th percentile per-packet one-way delay: 63.858 ms

Loss rate: 26.74%

-- Flow 2:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 63.558 ms

Loss rate: 32.56%

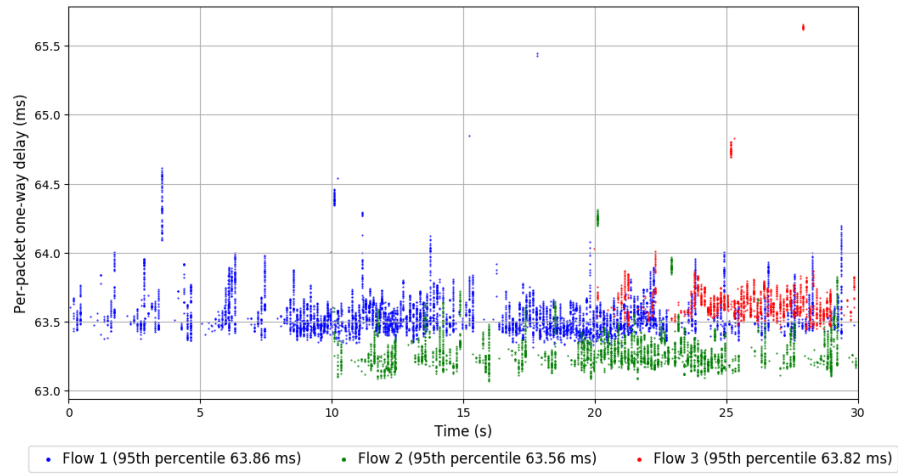
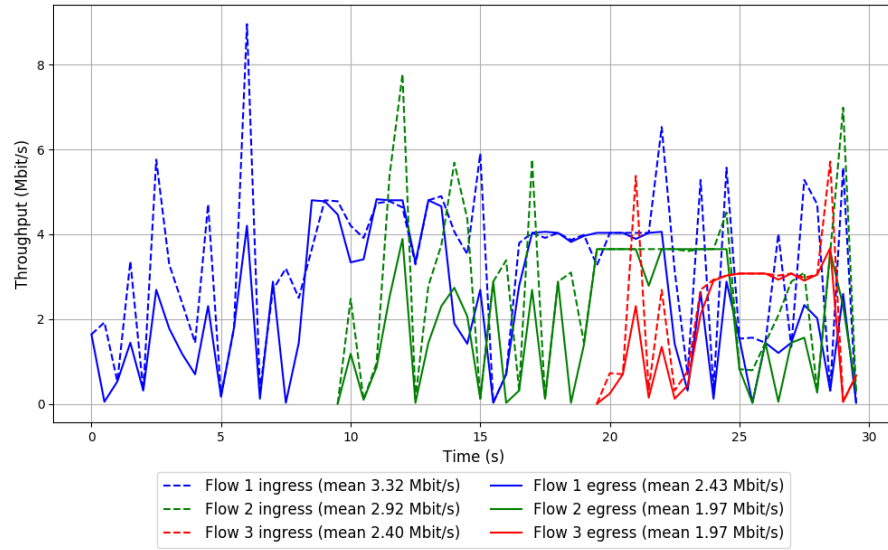
-- Flow 3:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 63.823 ms

Loss rate: 17.81%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-08-12 15:59:19

End at: 2017-08-12 15:59:49

Below is generated by plot.py at 2017-08-12 17:40:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.49 Mbit/s

95th percentile per-packet one-way delay: 63.847 ms

Loss rate: 32.84%

-- Flow 1:

Average throughput: 2.48 Mbit/s

95th percentile per-packet one-way delay: 63.631 ms

Loss rate: 30.02%

-- Flow 2:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 63.978 ms

Loss rate: 37.26%

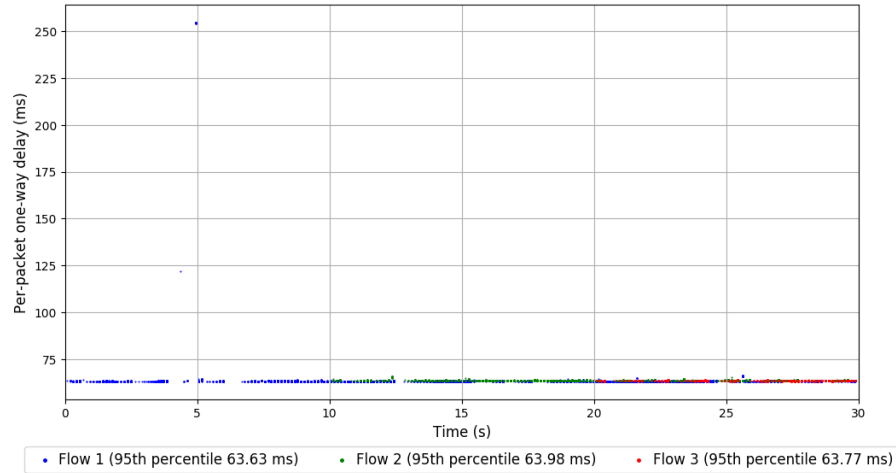
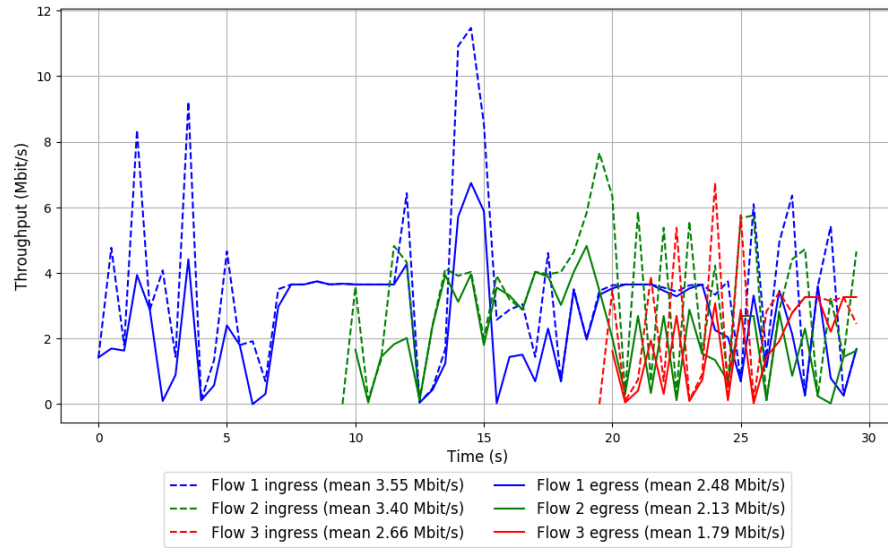
-- Flow 3:

Average throughput: 1.79 Mbit/s

95th percentile per-packet one-way delay: 63.775 ms

Loss rate: 32.86%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-08-12 16:10:29

End at: 2017-08-12 16:10:59

Below is generated by plot.py at 2017-08-12 17:40:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.35 Mbit/s

95th percentile per-packet one-way delay: 68.664 ms

Loss rate: 5.64%

-- Flow 1:

Average throughput: 88.06 Mbit/s

95th percentile per-packet one-way delay: 68.704 ms

Loss rate: 4.85%

-- Flow 2:

Average throughput: 0.92 Mbit/s

95th percentile per-packet one-way delay: 64.826 ms

Loss rate: 52.37%

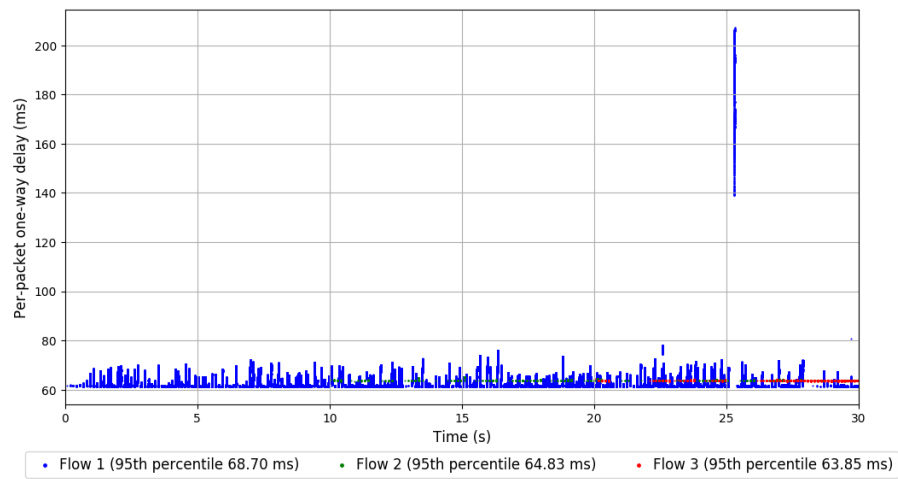
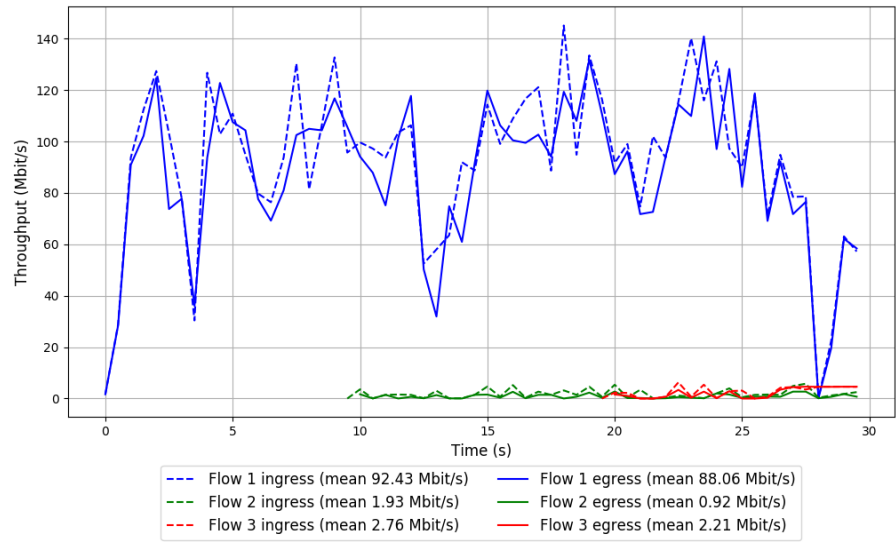
-- Flow 3:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 63.853 ms

Loss rate: 20.10%

Run 9: Report of TCP BBR — Data Link

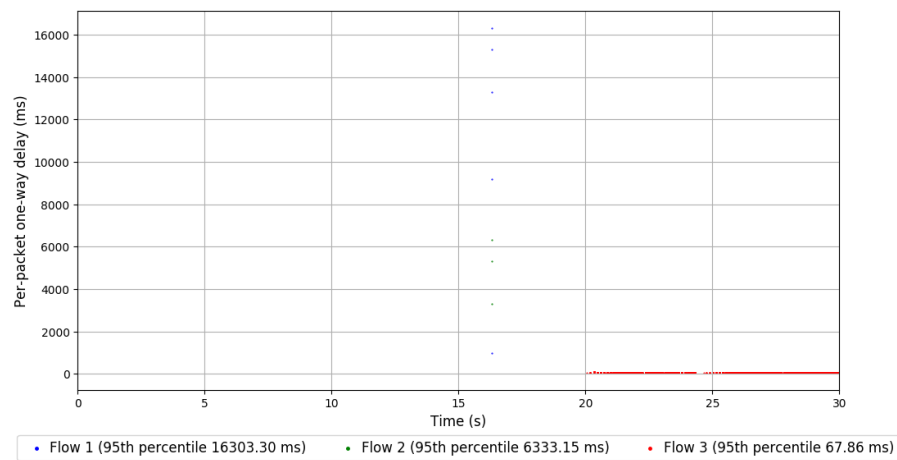
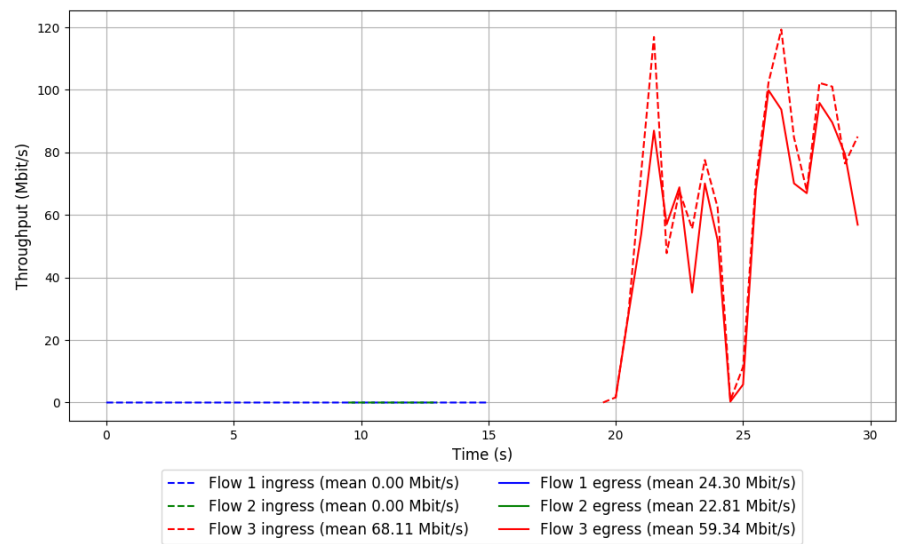


Run 10: Statistics of TCP BBR

Start at: 2017-08-12 16:22:03

End at: 2017-08-12 16:22:33

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of CalibratedKoho

Start at: 2017-08-12 14:30:53

End at: 2017-08-12 14:31:23

Below is generated by plot.py at 2017-08-12 17:41:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 339.68 Mbit/s

95th percentile per-packet one-way delay: 91.511 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 223.94 Mbit/s

95th percentile per-packet one-way delay: 95.356 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 137.14 Mbit/s

95th percentile per-packet one-way delay: 86.831 ms

Loss rate: 1.21%

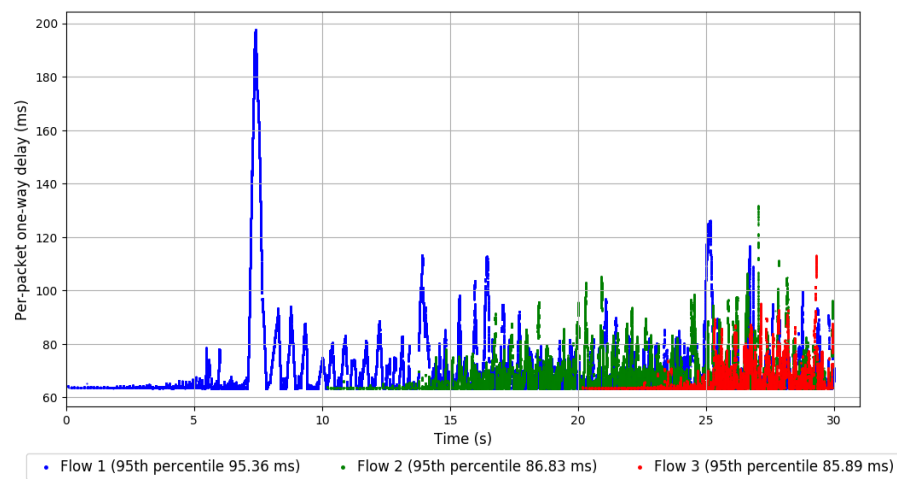
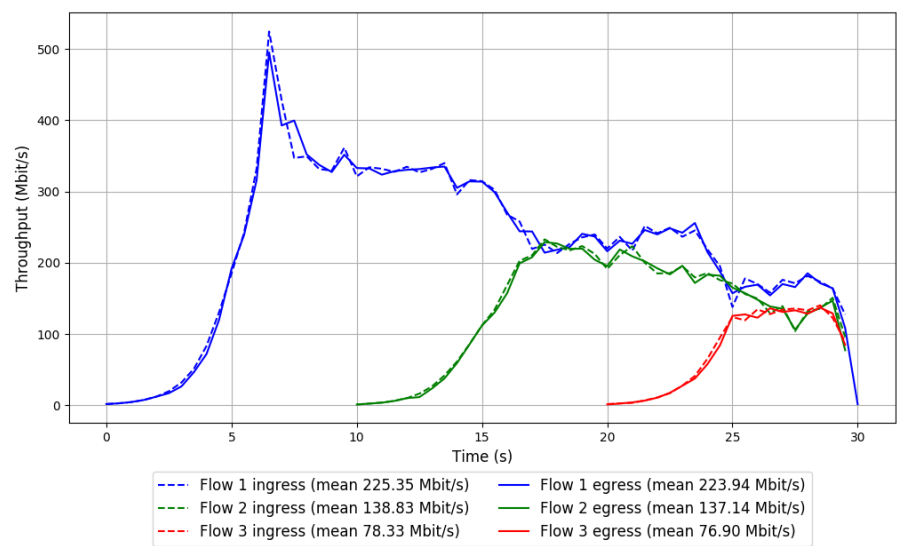
-- Flow 3:

Average throughput: 76.90 Mbit/s

95th percentile per-packet one-way delay: 85.892 ms

Loss rate: 1.82%

Run 1: Report of CalibratedKoho — Data Link



Run 2: Statistics of CalibratedKoho

Start at: 2017-08-12 14:42:37

End at: 2017-08-12 14:43:07

Below is generated by plot.py at 2017-08-12 17:41:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 252.62 Mbit/s

95th percentile per-packet one-way delay: 95.211 ms

Loss rate: 8.03%

-- Flow 1:

Average throughput: 211.91 Mbit/s

95th percentile per-packet one-way delay: 96.155 ms

Loss rate: 9.09%

-- Flow 2:

Average throughput: 0.71 Mbit/s

95th percentile per-packet one-way delay: 66.591 ms

Loss rate: 63.87%

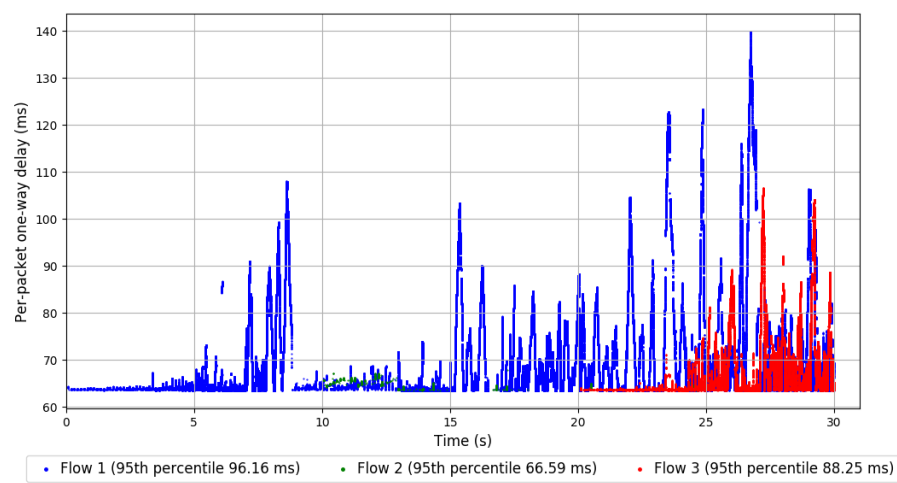
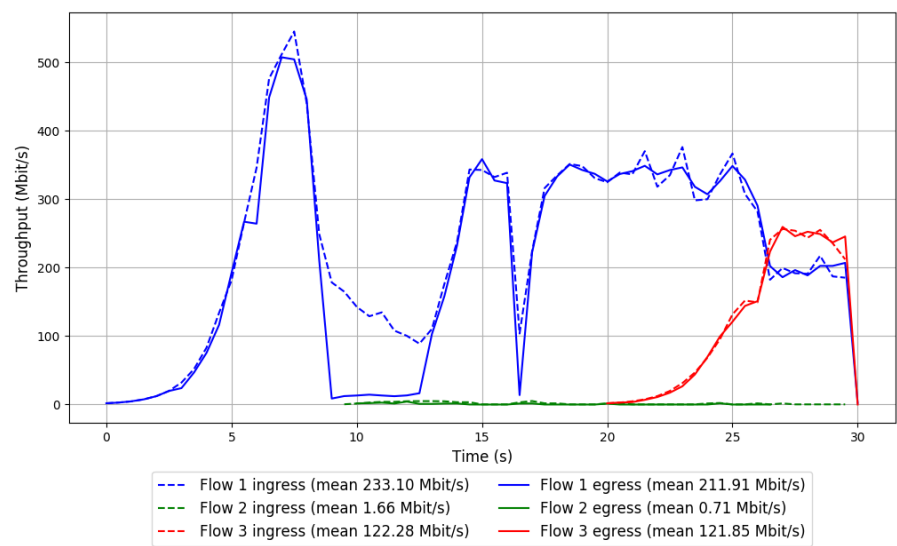
-- Flow 3:

Average throughput: 121.85 Mbit/s

95th percentile per-packet one-way delay: 88.255 ms

Loss rate: 0.41%

Run 2: Report of CalibratedKoho — Data Link



Run 3: Statistics of CalibratedKoho

Start at: 2017-08-12 14:54:16

End at: 2017-08-12 14:54:46

Below is generated by plot.py at 2017-08-12 17:42:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 332.47 Mbit/s

95th percentile per-packet one-way delay: 84.902 ms

Loss rate: 1.93%

-- Flow 1:

Average throughput: 234.92 Mbit/s

95th percentile per-packet one-way delay: 85.504 ms

Loss rate: 2.60%

-- Flow 2:

Average throughput: 147.22 Mbit/s

95th percentile per-packet one-way delay: 82.910 ms

Loss rate: 0.19%

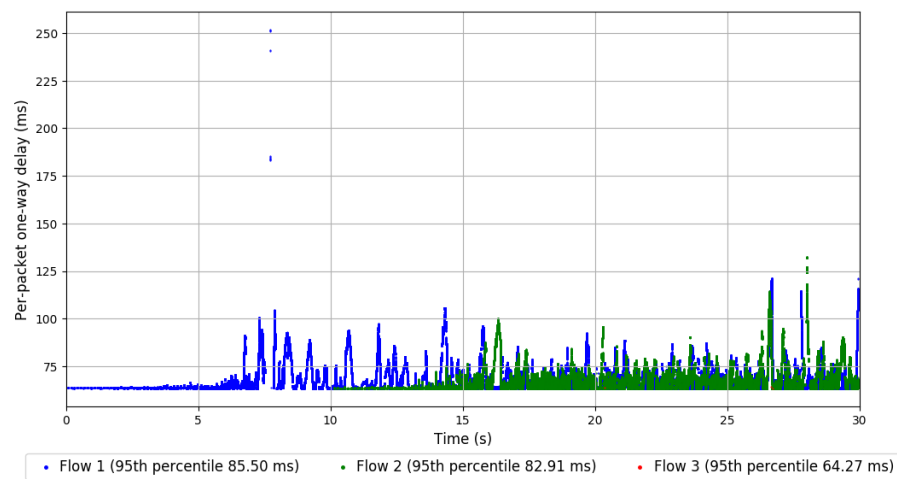
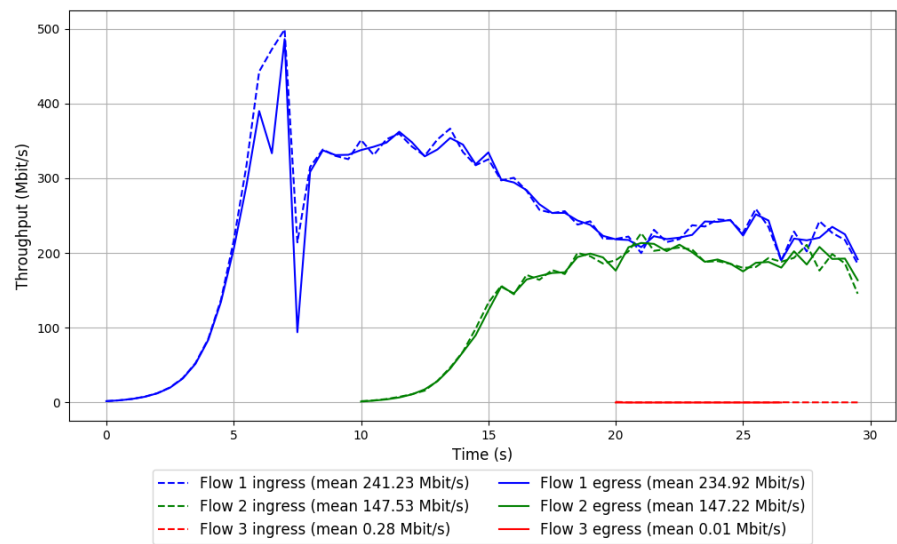
-- Flow 3:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 64.265 ms

Loss rate: 98.69%

Run 3: Report of CalibratedKoho — Data Link



Run 4: Statistics of CalibratedKoho

Start at: 2017-08-12 15:06:12

End at: 2017-08-12 15:06:42

Below is generated by plot.py at 2017-08-12 17:42:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 331.45 Mbit/s

95th percentile per-packet one-way delay: 84.328 ms

Loss rate: 1.56%

-- Flow 1:

Average throughput: 222.64 Mbit/s

95th percentile per-packet one-way delay: 84.383 ms

Loss rate: 1.86%

-- Flow 2:

Average throughput: 124.47 Mbit/s

95th percentile per-packet one-way delay: 84.994 ms

Loss rate: 1.08%

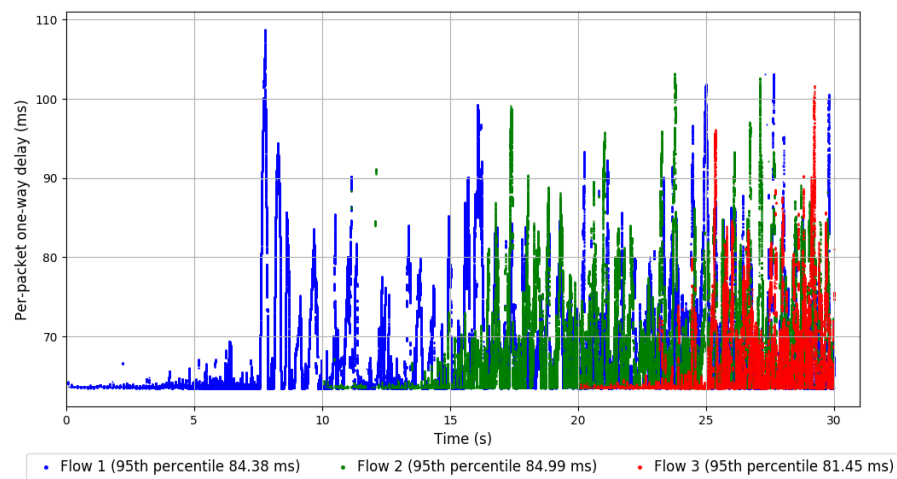
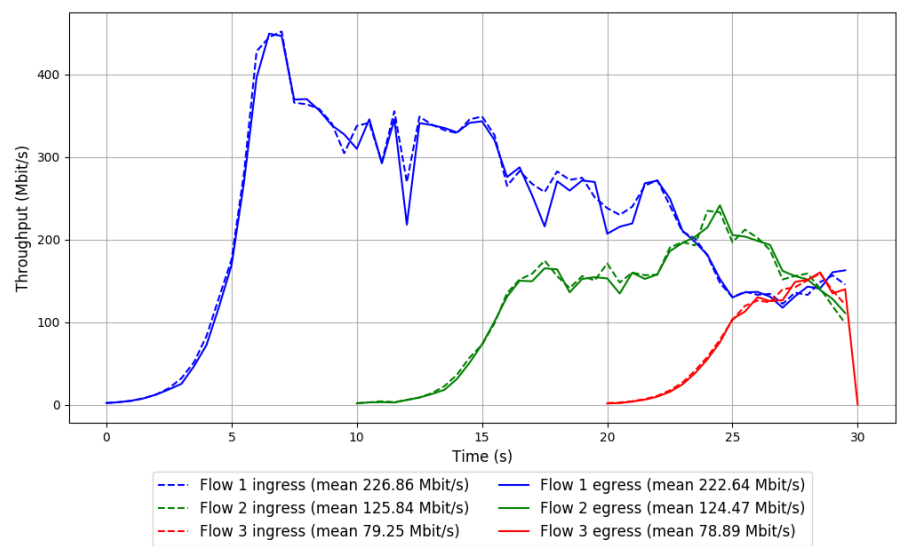
-- Flow 3:

Average throughput: 78.89 Mbit/s

95th percentile per-packet one-way delay: 81.452 ms

Loss rate: 0.41%

Run 4: Report of CalibratedKoho — Data Link



Run 5: Statistics of CalibratedKoho

Start at: 2017-08-12 15:18:03

End at: 2017-08-12 15:18:33

Below is generated by plot.py at 2017-08-12 17:43:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 340.93 Mbit/s

95th percentile per-packet one-way delay: 85.618 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 209.46 Mbit/s

95th percentile per-packet one-way delay: 84.688 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 153.61 Mbit/s

95th percentile per-packet one-way delay: 83.904 ms

Loss rate: 0.56%

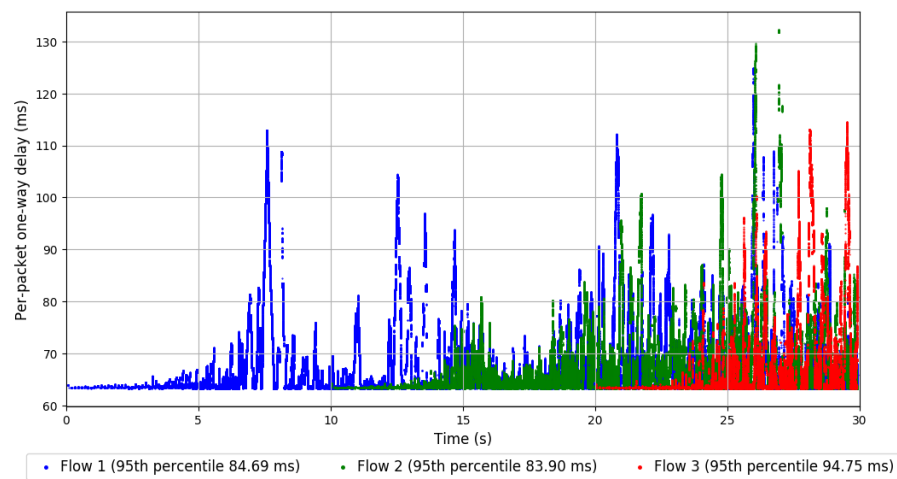
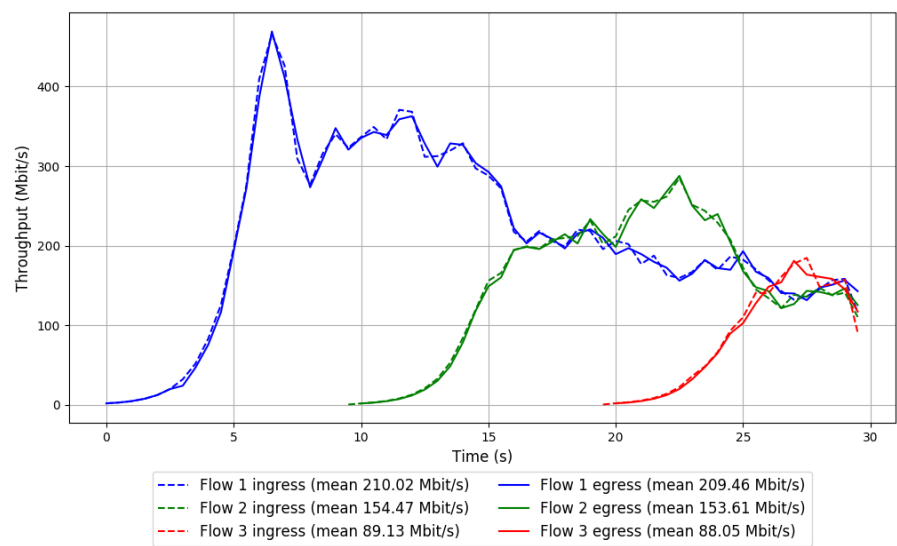
-- Flow 3:

Average throughput: 88.05 Mbit/s

95th percentile per-packet one-way delay: 94.752 ms

Loss rate: 1.14%

Run 5: Report of CalibratedKoho — Data Link



Run 6: Statistics of CalibratedKoho

Start at: 2017-08-12 15:29:41

End at: 2017-08-12 15:30:11

Below is generated by plot.py at 2017-08-12 17:43:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 340.35 Mbit/s

95th percentile per-packet one-way delay: 91.223 ms

Loss rate: 1.80%

-- Flow 1:

Average throughput: 222.29 Mbit/s

95th percentile per-packet one-way delay: 92.728 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 133.84 Mbit/s

95th percentile per-packet one-way delay: 85.803 ms

Loss rate: 5.08%

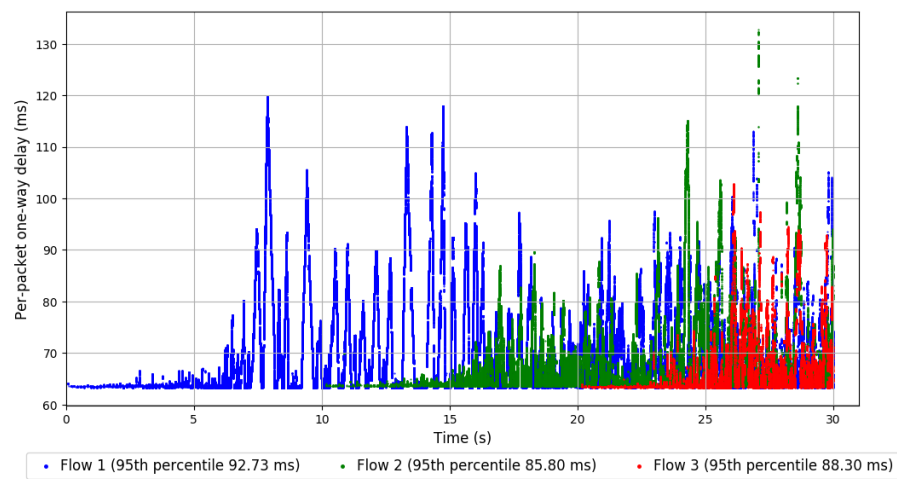
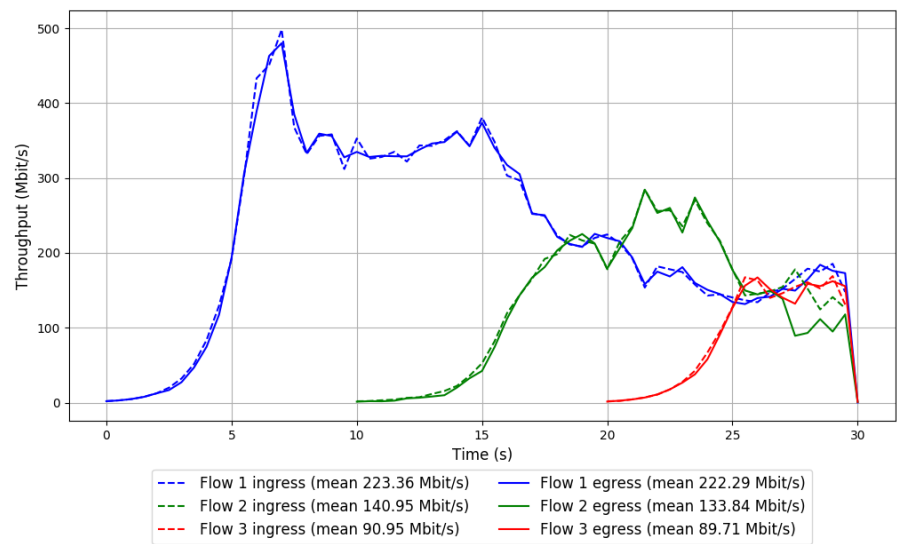
-- Flow 3:

Average throughput: 89.71 Mbit/s

95th percentile per-packet one-way delay: 88.295 ms

Loss rate: 1.35%

Run 6: Report of CalibratedKoho — Data Link



Run 7: Statistics of CalibratedKoho

Start at: 2017-08-12 15:41:27

End at: 2017-08-12 15:41:57

Below is generated by plot.py at 2017-08-12 17:44:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 336.40 Mbit/s

95th percentile per-packet one-way delay: 87.658 ms

Loss rate: 1.06%

-- Flow 1:

Average throughput: 213.76 Mbit/s

95th percentile per-packet one-way delay: 89.838 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 139.34 Mbit/s

95th percentile per-packet one-way delay: 79.172 ms

Loss rate: 1.91%

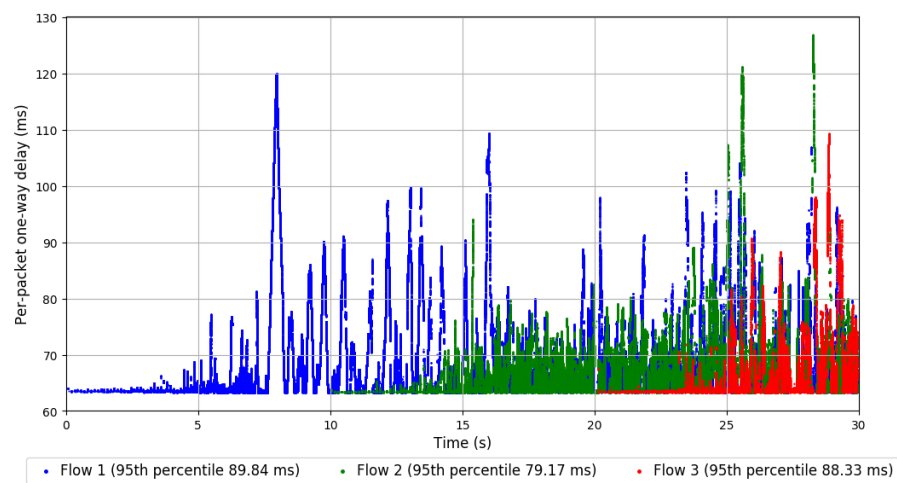
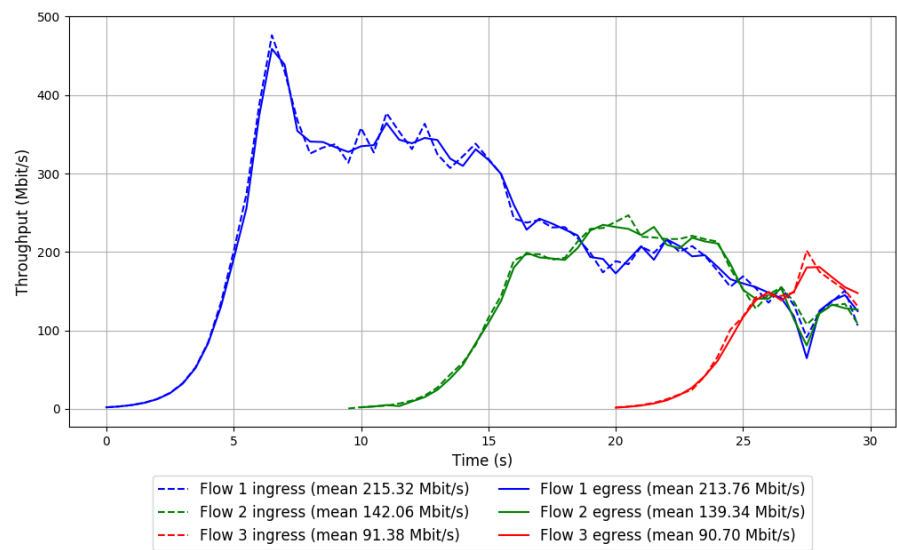
-- Flow 3:

Average throughput: 90.70 Mbit/s

95th percentile per-packet one-way delay: 88.325 ms

Loss rate: 0.76%

Run 7: Report of CalibratedKoho — Data Link



Run 8: Statistics of CalibratedKoho

Start at: 2017-08-12 15:52:45

End at: 2017-08-12 15:53:15

Below is generated by plot.py at 2017-08-12 17:44:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.05 Mbit/s

95th percentile per-packet one-way delay: 64.348 ms

Loss rate: 67.84%

-- Flow 1:

Average throughput: 1.49 Mbit/s

95th percentile per-packet one-way delay: 64.547 ms

Loss rate: 69.24%

-- Flow 2:

Average throughput: 1.71 Mbit/s

95th percentile per-packet one-way delay: 64.275 ms

Loss rate: 67.18%

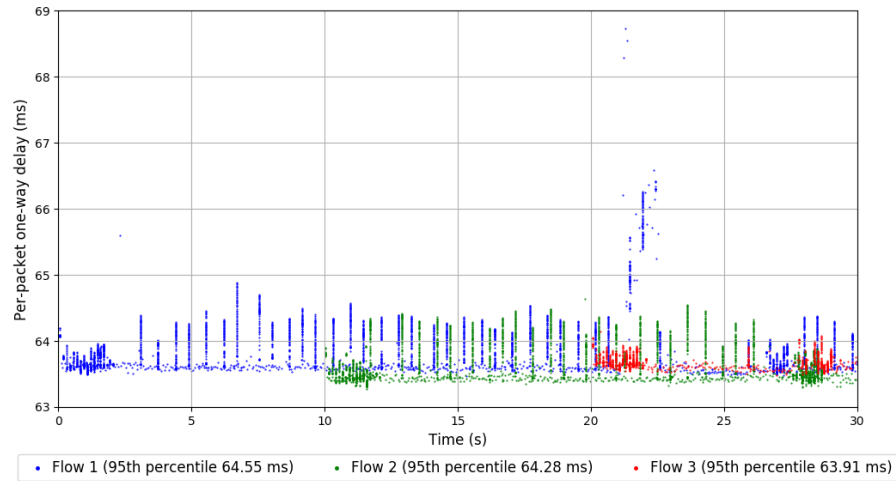
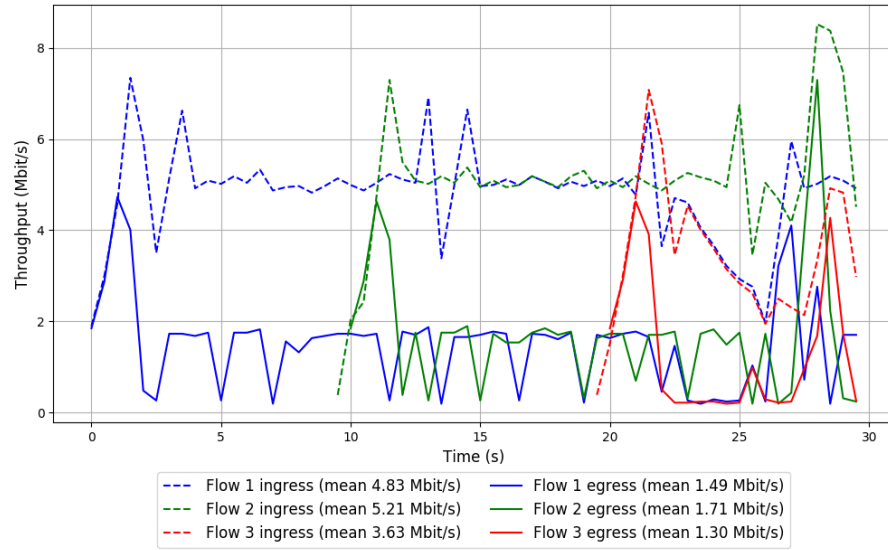
-- Flow 3:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 63.910 ms

Loss rate: 64.11%

Run 8: Report of CalibratedKoho — Data Link



Run 9: Statistics of CalibratedKoho

Start at: 2017-08-12 16:03:46

End at: 2017-08-12 16:04:16

Below is generated by plot.py at 2017-08-12 17:44:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 172.81 Mbit/s

95th percentile per-packet one-way delay: 84.525 ms

Loss rate: 2.05%

-- Flow 1:

Average throughput: 1.01 Mbit/s

95th percentile per-packet one-way delay: 64.579 ms

Loss rate: 68.46%

-- Flow 2:

Average throughput: 257.59 Mbit/s

95th percentile per-packet one-way delay: 84.573 ms

Loss rate: 0.89%

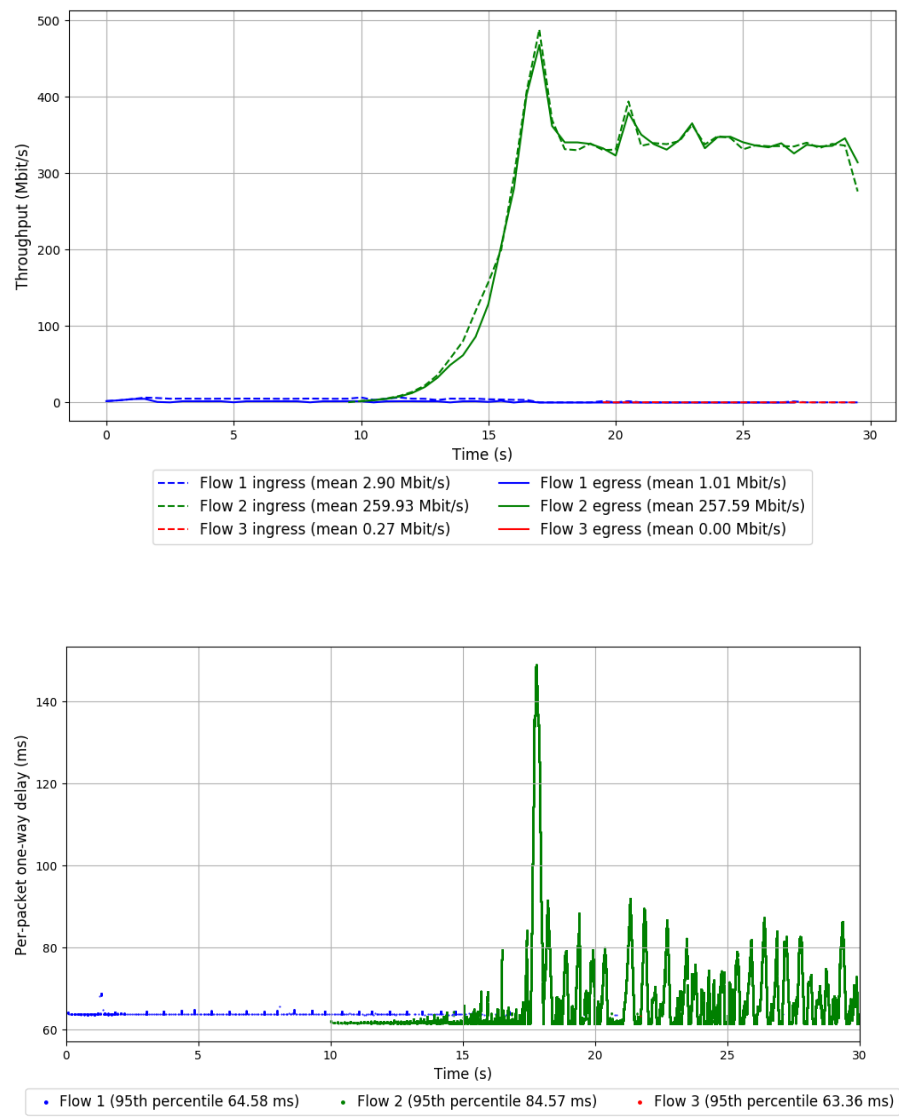
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 63.359 ms

Loss rate: 99.55%

Run 9: Report of CalibratedKoho — Data Link



Run 10: Statistics of CalibratedKoho

Start at: 2017-08-12 16:14:57

End at: 2017-08-12 16:15:27

Below is generated by plot.py at 2017-08-12 17:45:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 334.59 Mbit/s

95th percentile per-packet one-way delay: 89.251 ms

Loss rate: 3.23%

-- Flow 1:

Average throughput: 209.39 Mbit/s

95th percentile per-packet one-way delay: 91.918 ms

Loss rate: 4.19%

-- Flow 2:

Average throughput: 147.56 Mbit/s

95th percentile per-packet one-way delay: 83.533 ms

Loss rate: 0.55%

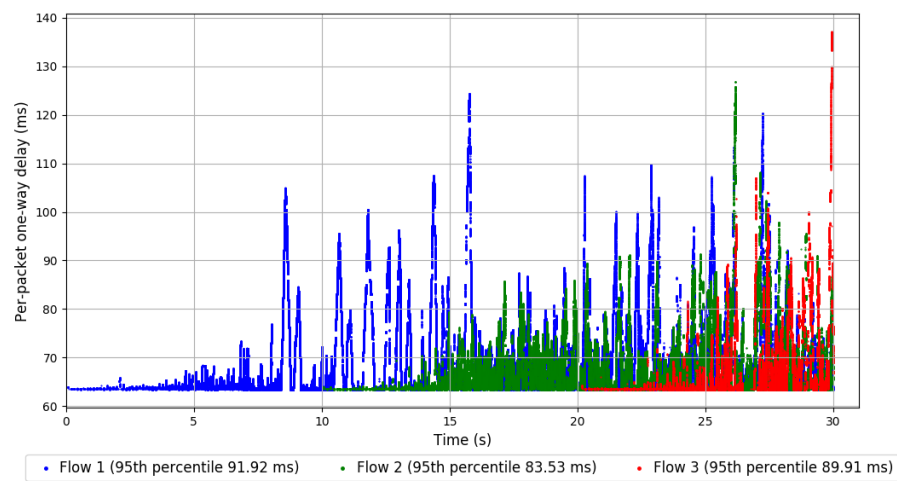
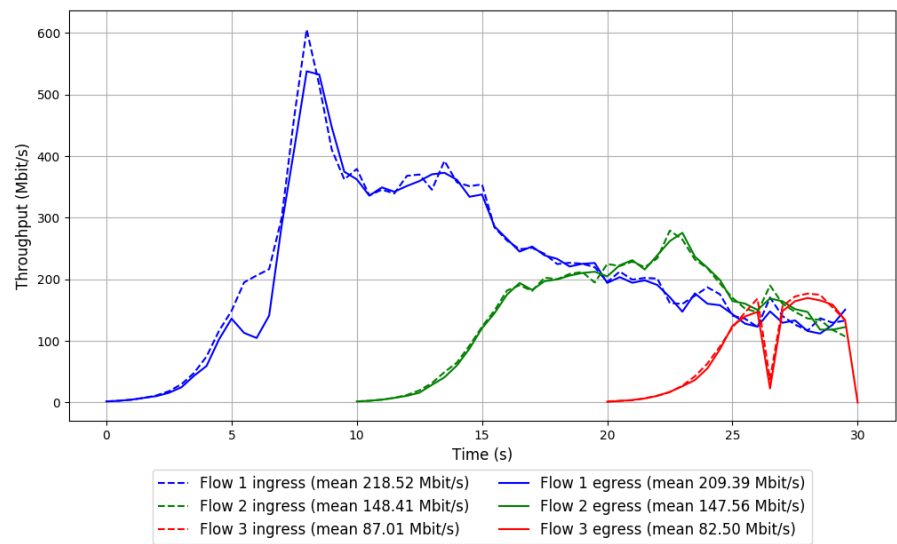
-- Flow 3:

Average throughput: 82.50 Mbit/s

95th percentile per-packet one-way delay: 89.912 ms

Loss rate: 5.11%

Run 10: Report of CalibratedKoho — Data Link

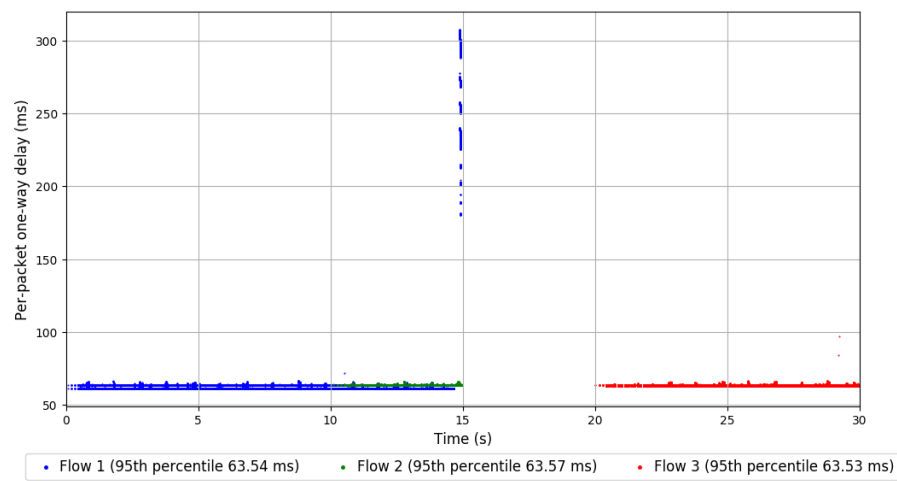
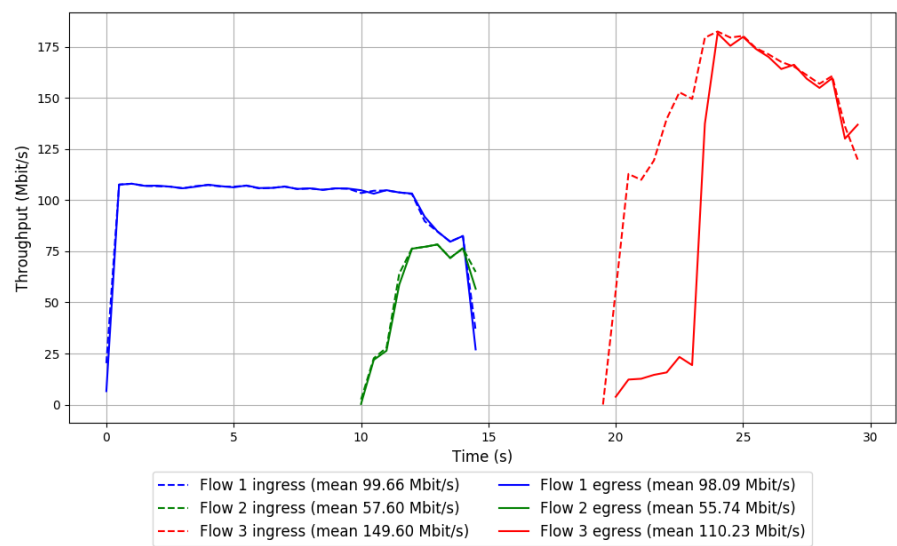


```
Run 1: Statistics of Copa

Start at: 2017-08-12 14:37:09
End at: 2017-08-12 14:37:39

# Below is generated by plot.py at 2017-08-12 17:45:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.52 Mbit/s
95th percentile per-packet one-way delay: 63.540 ms
Loss rate: 12.70%
-- Flow 1:
Average throughput: 98.09 Mbit/s
95th percentile per-packet one-way delay: 63.538 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 55.74 Mbit/s
95th percentile per-packet one-way delay: 63.569 ms
Loss rate: 3.24%
-- Flow 3:
Average throughput: 110.23 Mbit/s
95th percentile per-packet one-way delay: 63.534 ms
Loss rate: 26.34%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-08-12 14:48:39

End at: 2017-08-12 14:49:09

Below is generated by plot.py at 2017-08-12 17:45:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 120.58 Mbit/s

95th percentile per-packet one-way delay: 63.593 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 81.77 Mbit/s

95th percentile per-packet one-way delay: 63.597 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 78.06 Mbit/s

95th percentile per-packet one-way delay: 63.572 ms

Loss rate: 0.01%

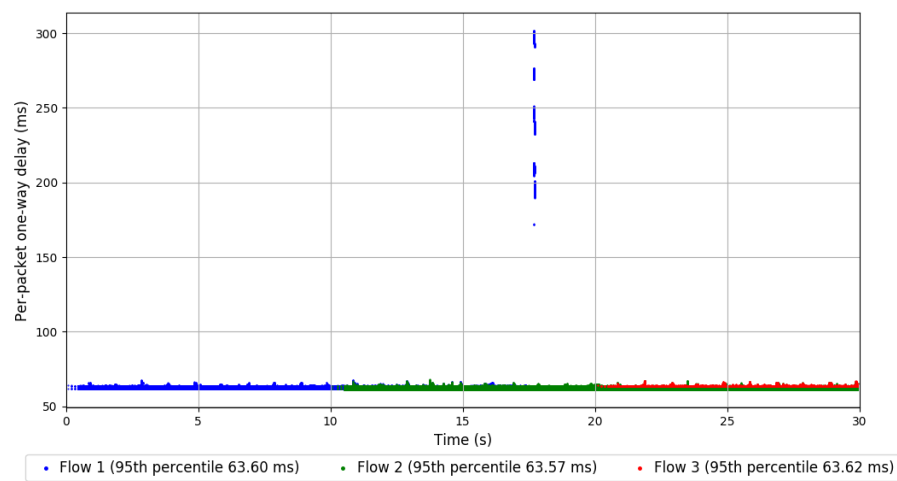
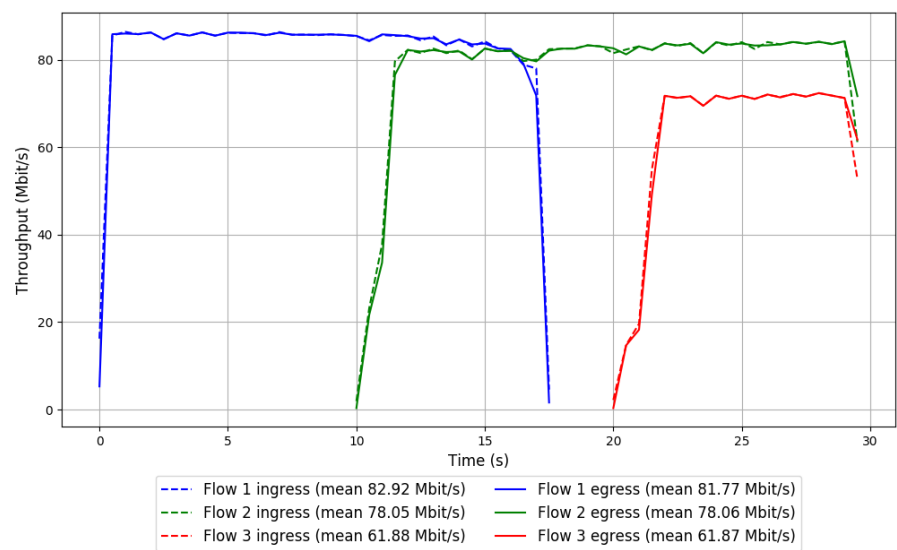
-- Flow 3:

Average throughput: 61.87 Mbit/s

95th percentile per-packet one-way delay: 63.622 ms

Loss rate: 0.01%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-08-12 15:00:31

End at: 2017-08-12 15:01:01

Below is generated by plot.py at 2017-08-12 17:46:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 124.45 Mbit/s

95th percentile per-packet one-way delay: 63.563 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 80.45 Mbit/s

95th percentile per-packet one-way delay: 63.560 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 47.71 Mbit/s

95th percentile per-packet one-way delay: 63.557 ms

Loss rate: 0.00%

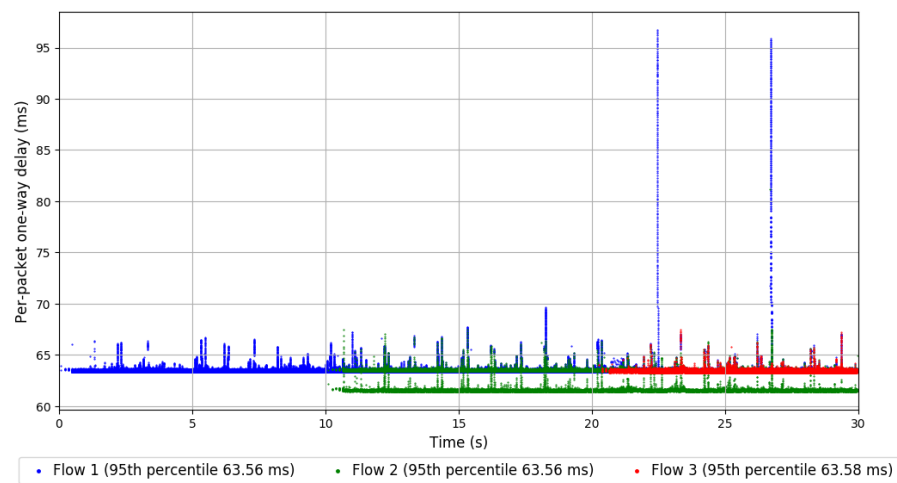
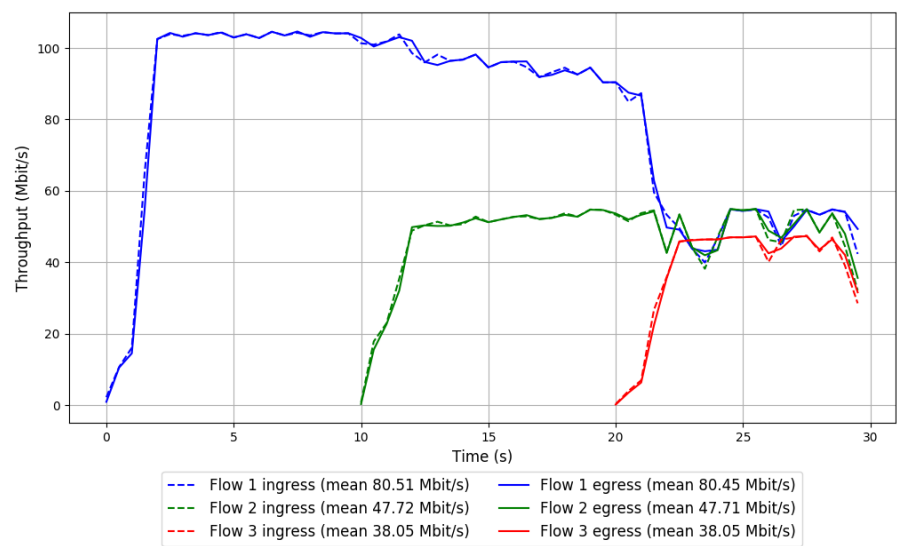
-- Flow 3:

Average throughput: 38.05 Mbit/s

95th percentile per-packet one-way delay: 63.584 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-08-12 15:12:24

End at: 2017-08-12 15:12:54

Below is generated by plot.py at 2017-08-12 17:46:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.36 Mbit/s

95th percentile per-packet one-way delay: 64.293 ms

Loss rate: 1.27%

-- Flow 1:

Average throughput: 68.02 Mbit/s

95th percentile per-packet one-way delay: 64.505 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 44.01 Mbit/s

95th percentile per-packet one-way delay: 63.844 ms

Loss rate: 3.97%

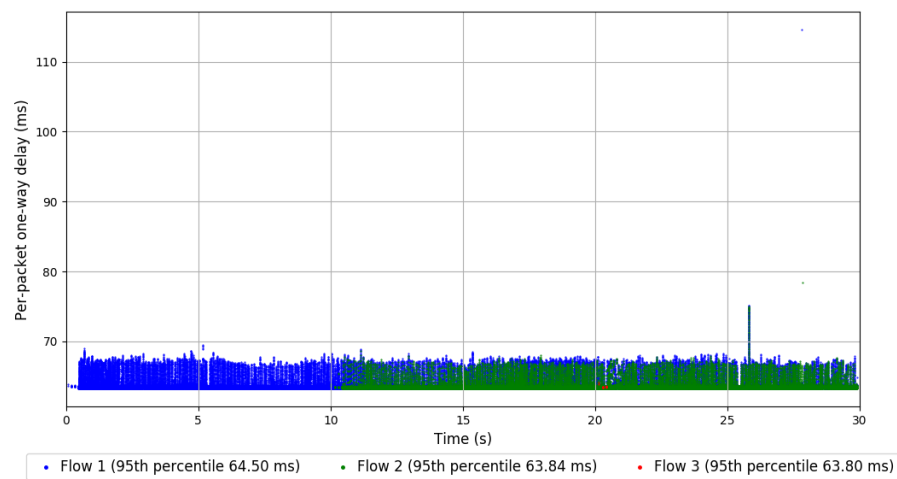
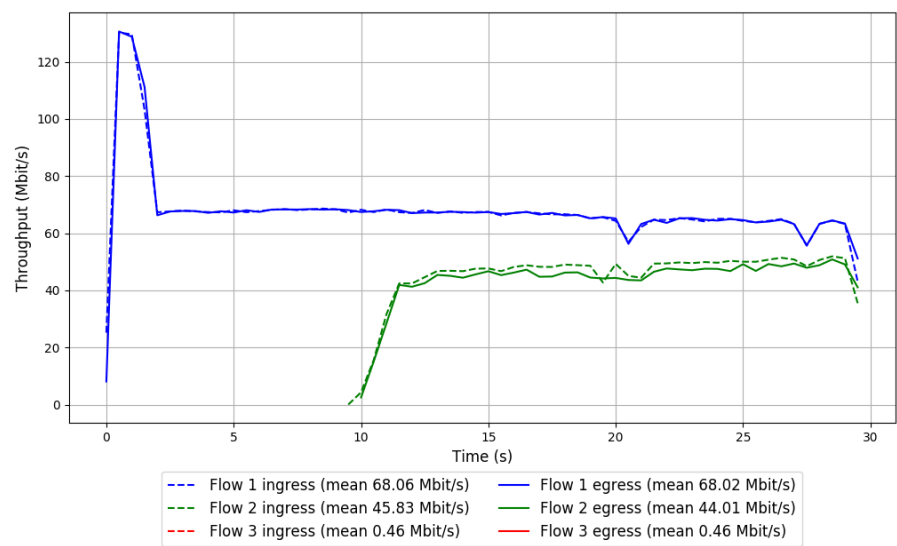
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 63.795 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-08-12 15:24:19

End at: 2017-08-12 15:24:49

Below is generated by plot.py at 2017-08-12 17:46:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.28 Mbit/s

95th percentile per-packet one-way delay: 63.545 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 97.23 Mbit/s

95th percentile per-packet one-way delay: 63.523 ms

Loss rate: 2.25%

-- Flow 2:

Average throughput: 77.33 Mbit/s

95th percentile per-packet one-way delay: 63.551 ms

Loss rate: 0.00%

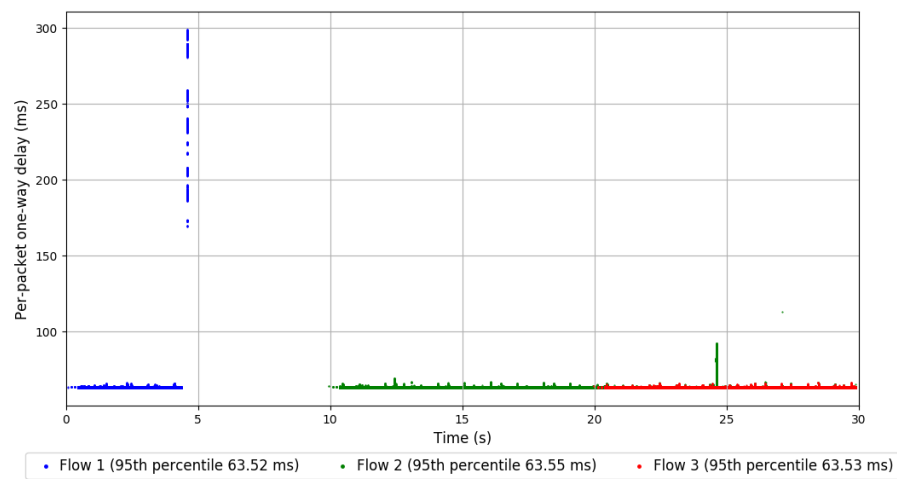
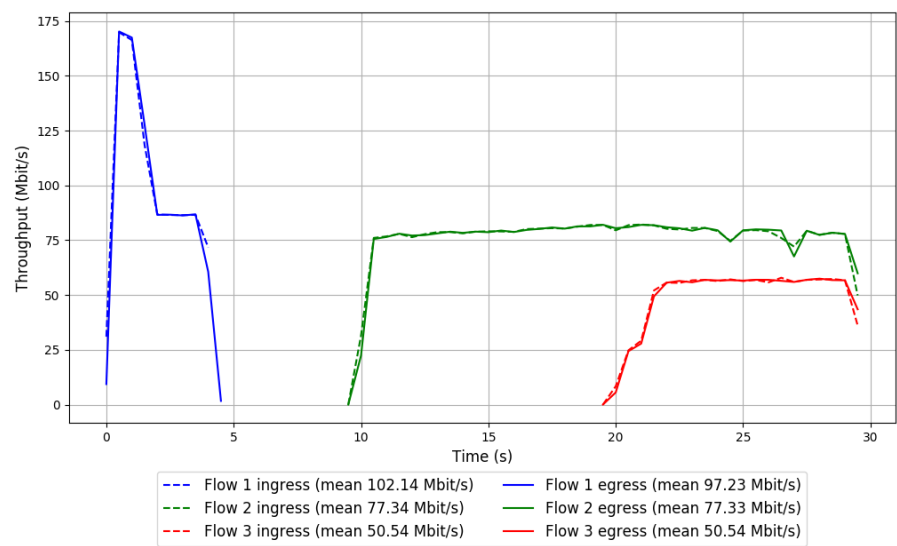
-- Flow 3:

Average throughput: 50.54 Mbit/s

95th percentile per-packet one-way delay: 63.535 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-08-12 15:35:57

End at: 2017-08-12 15:36:27

Below is generated by plot.py at 2017-08-12 17:46:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 105.86 Mbit/s

95th percentile per-packet one-way delay: 63.490 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 66.68 Mbit/s

95th percentile per-packet one-way delay: 63.493 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 69.02 Mbit/s

95th percentile per-packet one-way delay: 63.486 ms

Loss rate: 0.00%

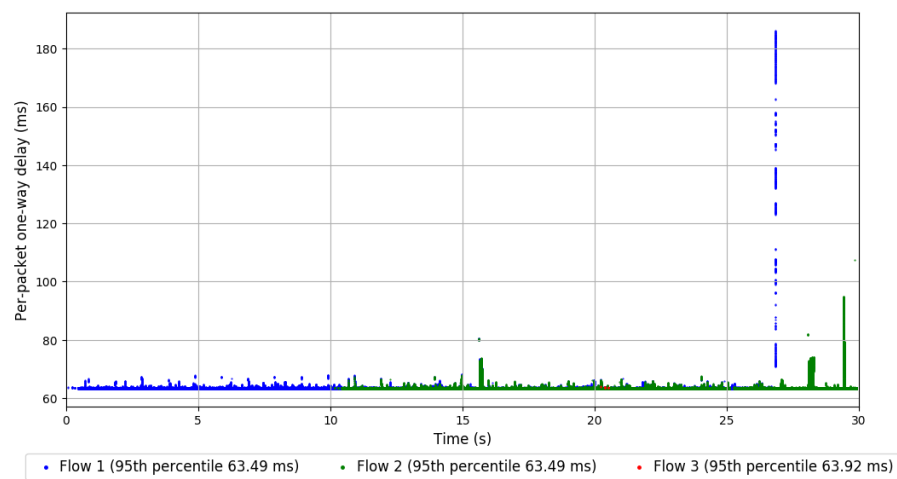
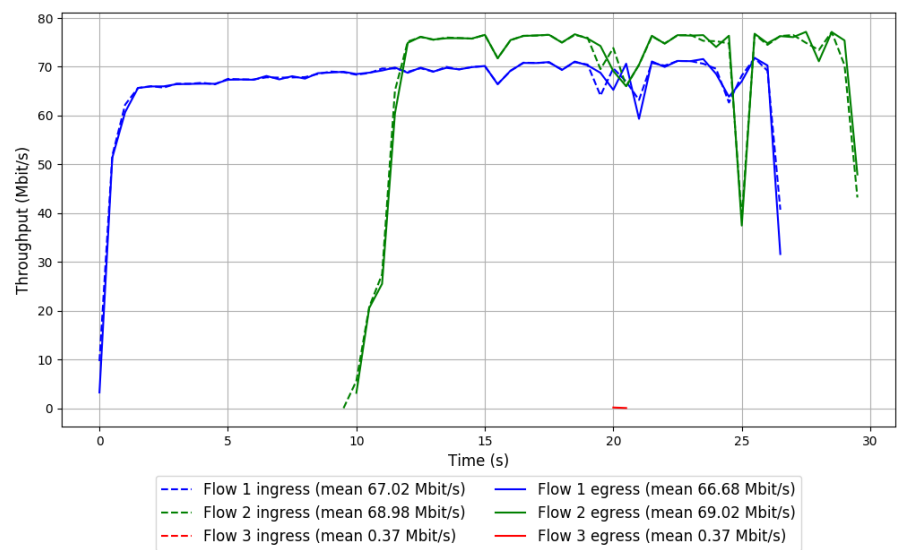
-- Flow 3:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 63.917 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link

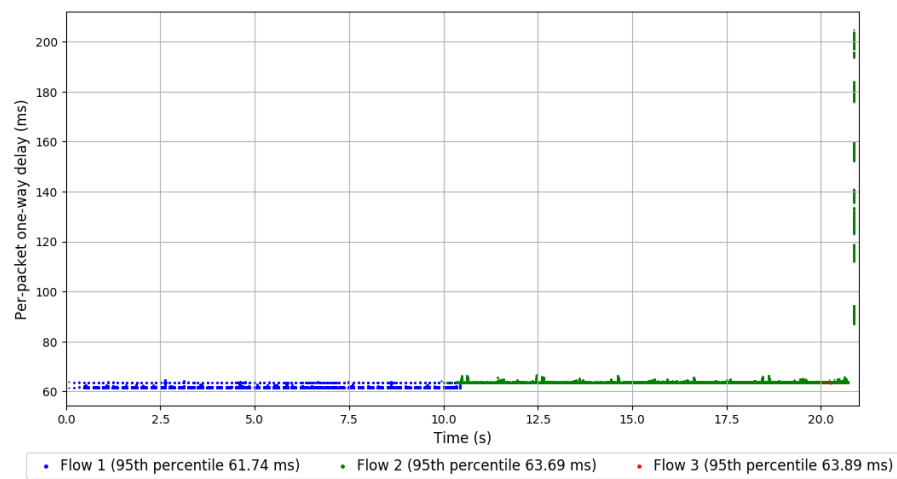
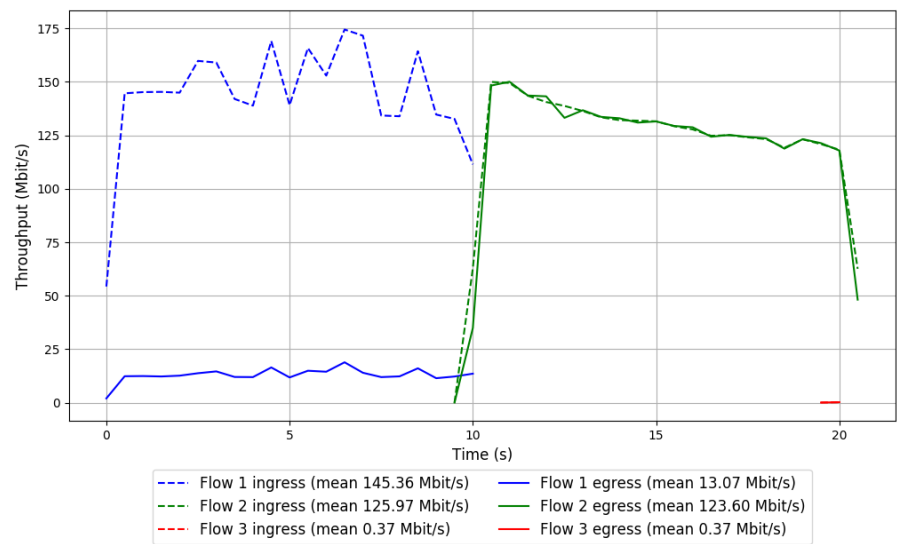


Run 7: Statistics of Copa

Start at: 2017-08-12 15:47:33

End at: 2017-08-12 15:48:03

Run 7: Report of Copa — Data Link

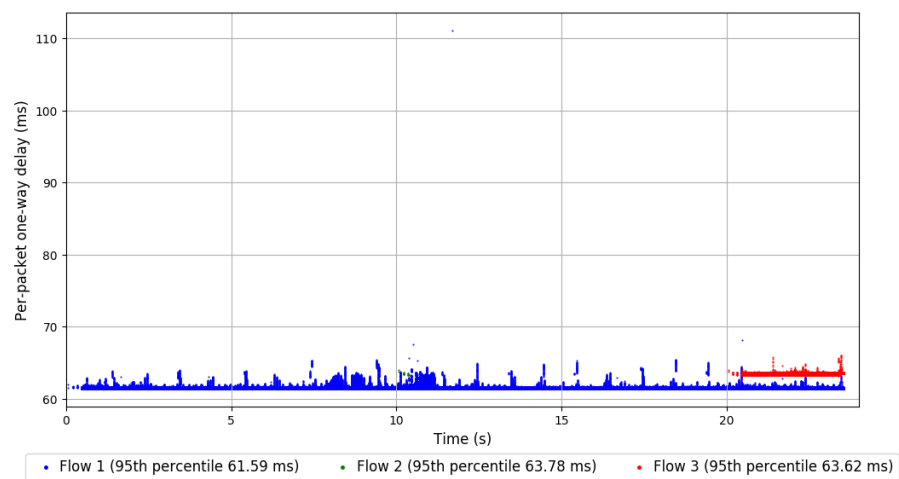
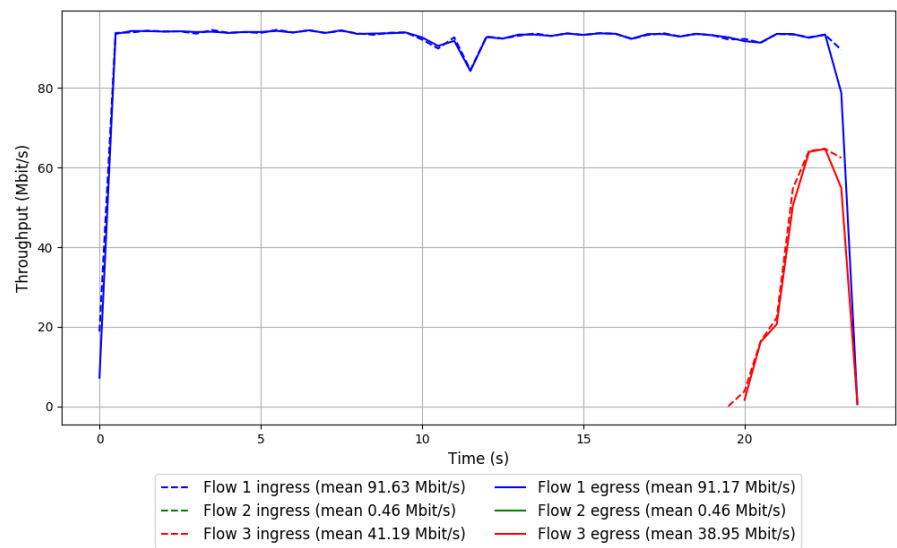


Run 8: Statistics of Copa

Start at: 2017-08-12 15:58:30

End at: 2017-08-12 15:59:00

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-08-12 16:09:33

End at: 2017-08-12 16:10:03

Below is generated by plot.py at 2017-08-12 17:47:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 122.86 Mbit/s

95th percentile per-packet one-way delay: 63.661 ms

Loss rate: 10.77%

-- Flow 1:

Average throughput: 87.88 Mbit/s

95th percentile per-packet one-way delay: 63.597 ms

Loss rate: 17.15%

-- Flow 2:

Average throughput: 48.55 Mbit/s

95th percentile per-packet one-way delay: 63.711 ms

Loss rate: 4.50%

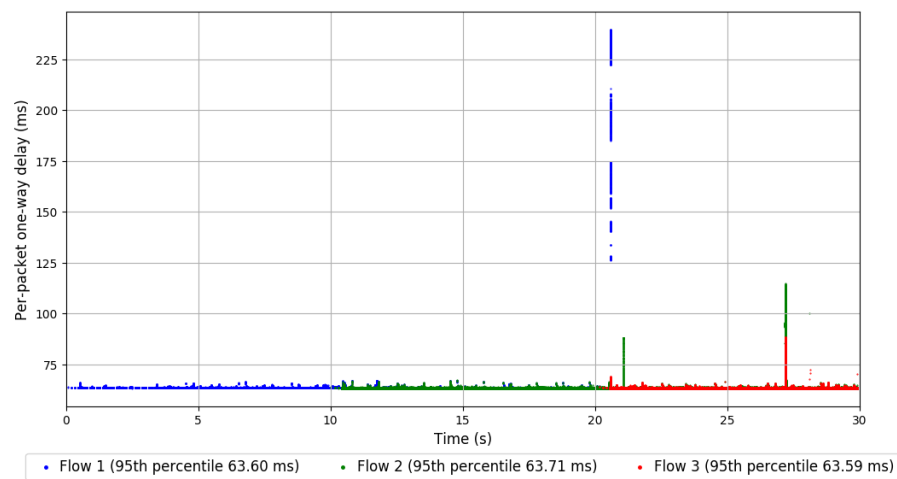
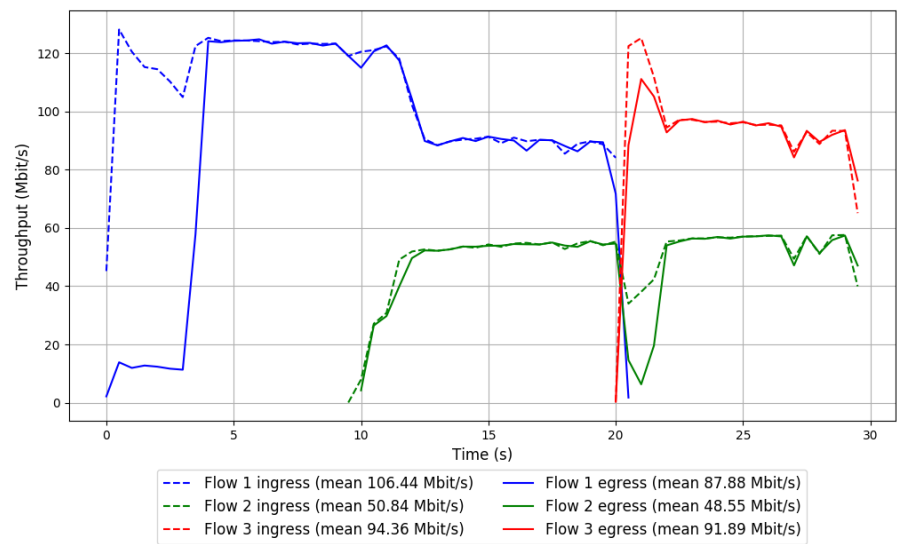
-- Flow 3:

Average throughput: 91.89 Mbit/s

95th percentile per-packet one-way delay: 63.593 ms

Loss rate: 2.56%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-08-12 16:21:06

End at: 2017-08-12 16:21:36

Below is generated by plot.py at 2017-08-12 17:48:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 149.49 Mbit/s

95th percentile per-packet one-way delay: 64.665 ms

Loss rate: 1.09%

-- Flow 1:

Average throughput: 113.24 Mbit/s

95th percentile per-packet one-way delay: 63.600 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 82.72 Mbit/s

95th percentile per-packet one-way delay: 64.751 ms

Loss rate: 0.21%

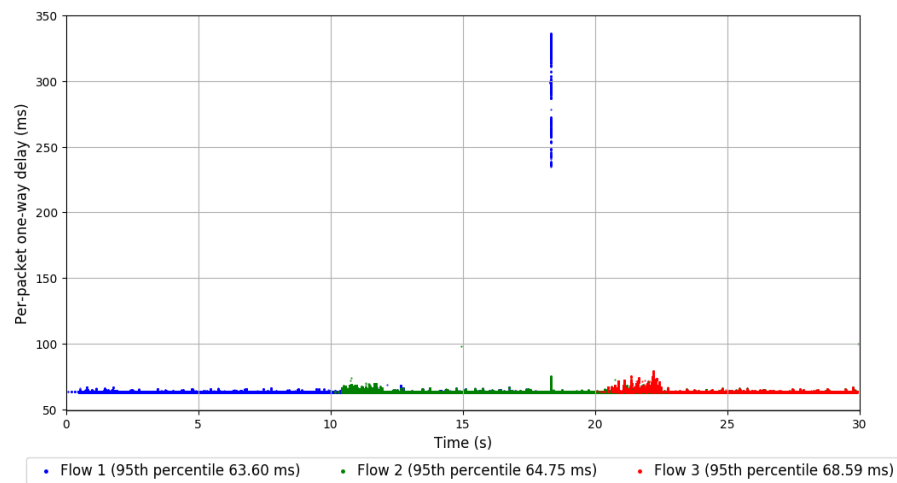
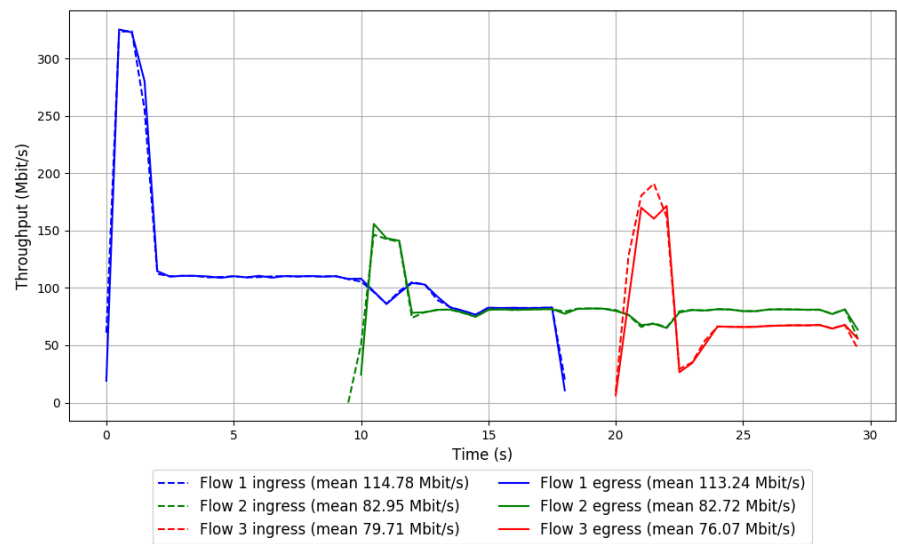
-- Flow 3:

Average throughput: 76.07 Mbit/s

95th percentile per-packet one-way delay: 68.588 ms

Loss rate: 4.58%

Run 10: Report of Copa — Data Link

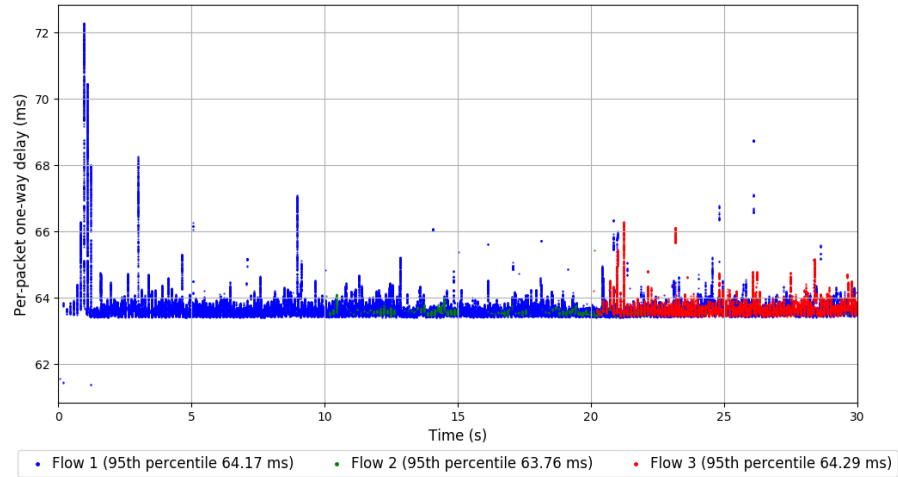
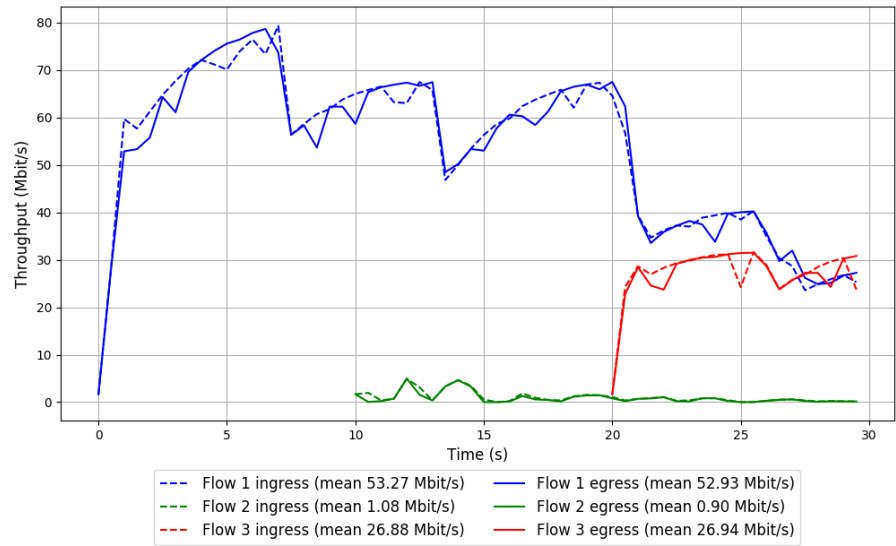


```
Run 1: Statistics of TCP Cubic

Start at: 2017-08-12 14:39:40
End at: 2017-08-12 14:40:10

# Below is generated by plot.py at 2017-08-12 17:48:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 62.44 Mbit/s
95th percentile per-packet one-way delay: 64.184 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 52.93 Mbit/s
95th percentile per-packet one-way delay: 64.166 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 0.90 Mbit/s
95th percentile per-packet one-way delay: 63.757 ms
Loss rate: 17.09%
-- Flow 3:
Average throughput: 26.94 Mbit/s
95th percentile per-packet one-way delay: 64.294 ms
Loss rate: 0.32%
```

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

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

End at: 2017-08-12 14:51:47

Below is generated by plot.py at 2017-08-12 17:48:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.83 Mbit/s

95th percentile per-packet one-way delay: 64.442 ms

Loss rate: 1.80%

-- Flow 1:

Average throughput: 44.68 Mbit/s

95th percentile per-packet one-way delay: 64.444 ms

Loss rate: 0.94%

-- Flow 2:

Average throughput: 15.16 Mbit/s

95th percentile per-packet one-way delay: 63.962 ms

Loss rate: 2.03%

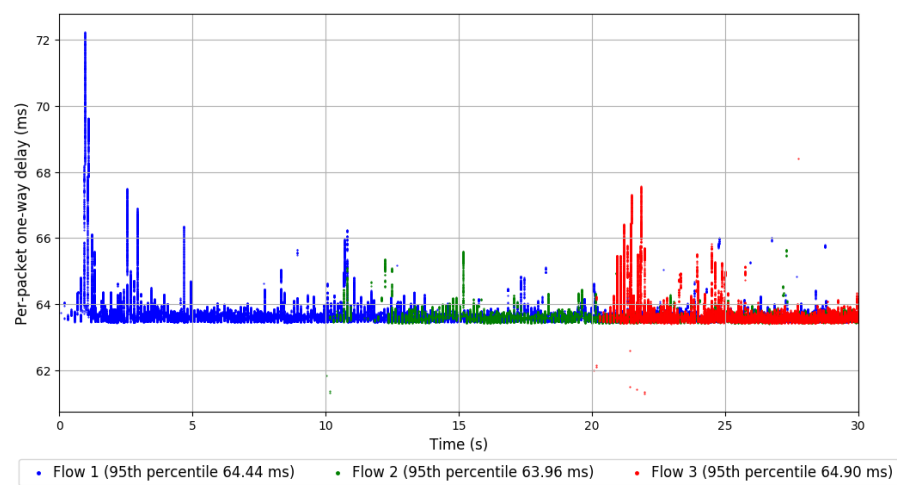
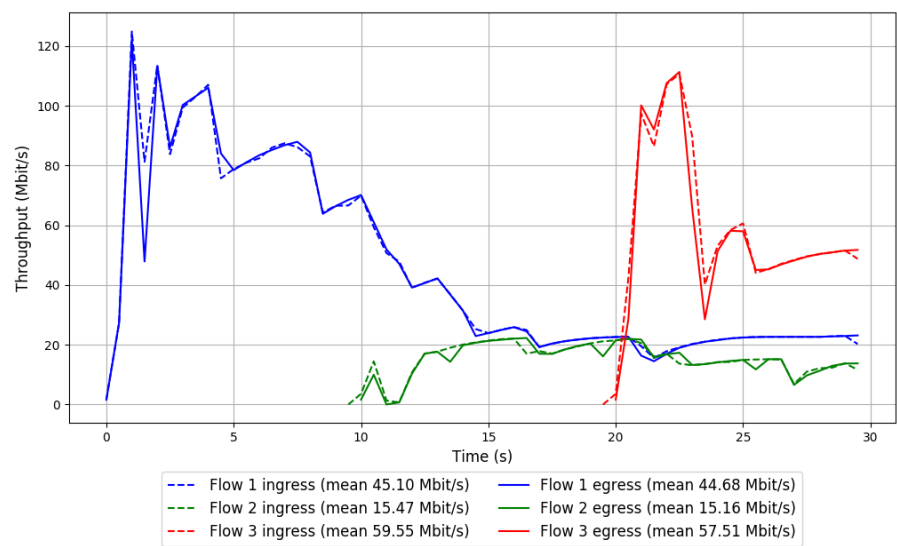
-- Flow 3:

Average throughput: 57.51 Mbit/s

95th percentile per-packet one-way delay: 64.900 ms

Loss rate: 3.64%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-08-12 15:03:17

End at: 2017-08-12 15:03:47

Below is generated by plot.py at 2017-08-12 17:48:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 31.95 Mbit/s

95th percentile per-packet one-way delay: 64.278 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 15.04 Mbit/s

95th percentile per-packet one-way delay: 64.019 ms

Loss rate: 0.92%

-- Flow 2:

Average throughput: 23.16 Mbit/s

95th percentile per-packet one-way delay: 64.421 ms

Loss rate: 0.30%

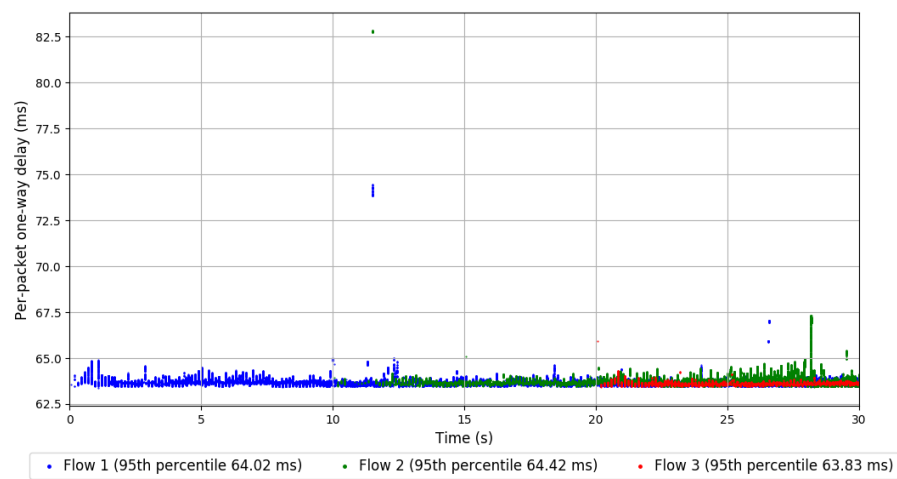
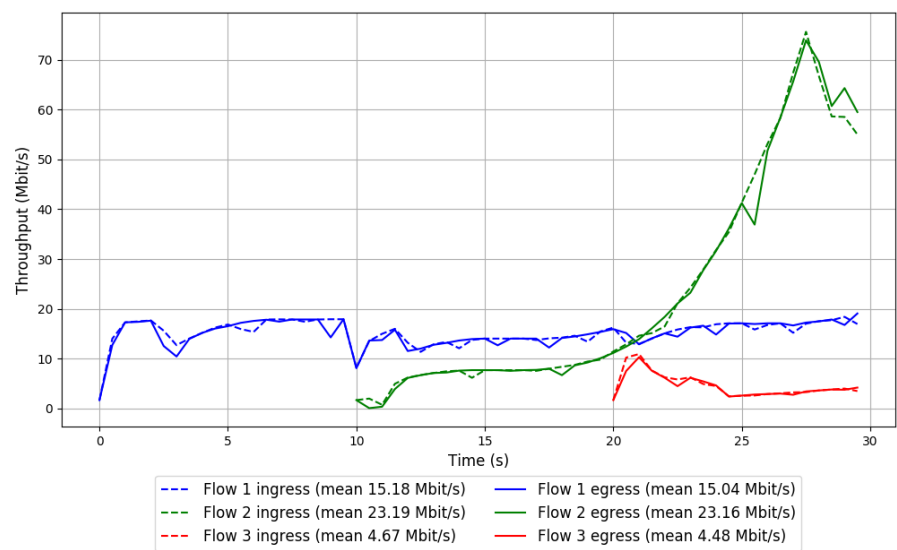
-- Flow 3:

Average throughput: 4.48 Mbit/s

95th percentile per-packet one-way delay: 63.827 ms

Loss rate: 4.34%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-08-12 15:15:00

End at: 2017-08-12 15:15:30

Below is generated by plot.py at 2017-08-12 17:48:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.27 Mbit/s

95th percentile per-packet one-way delay: 65.195 ms

Loss rate: 1.95%

-- Flow 1:

Average throughput: 28.12 Mbit/s

95th percentile per-packet one-way delay: 64.985 ms

Loss rate: 2.55%

-- Flow 2:

Average throughput: 81.18 Mbit/s

95th percentile per-packet one-way delay: 65.227 ms

Loss rate: 1.60%

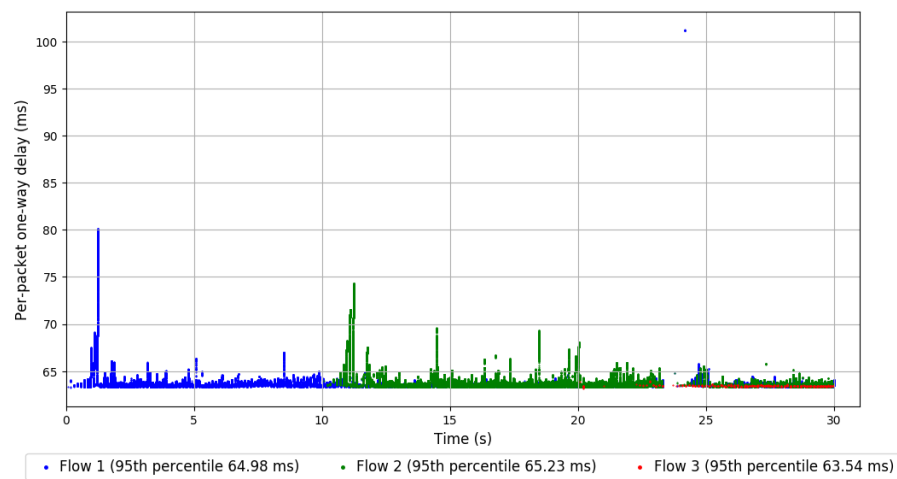
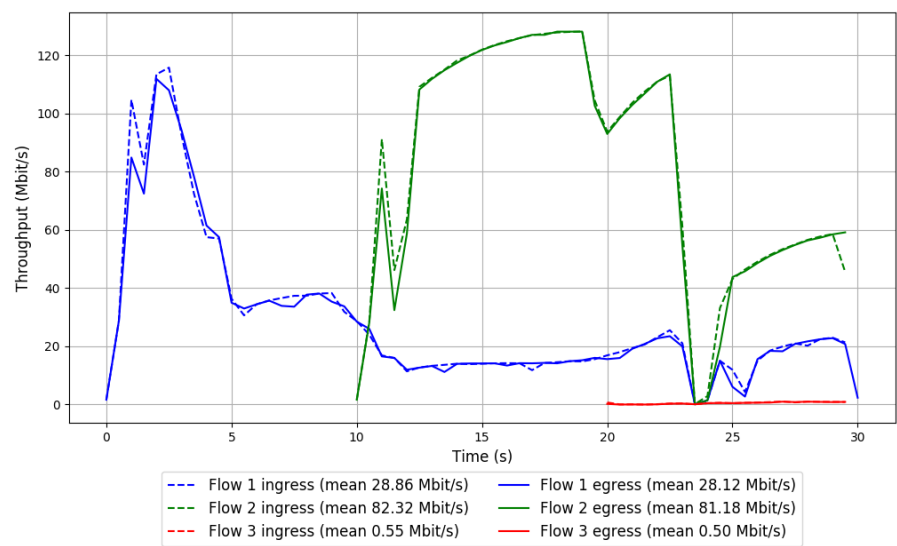
-- Flow 3:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 63.538 ms

Loss rate: 9.27%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-08-12 15:26:48

End at: 2017-08-12 15:27:18

Below is generated by plot.py at 2017-08-12 17:48:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 11.68 Mbit/s

95th percentile per-packet one-way delay: 67.335 ms

Loss rate: 2.53%

-- Flow 1:

Average throughput: 5.37 Mbit/s

95th percentile per-packet one-way delay: 67.326 ms

Loss rate: 2.97%

-- Flow 2:

Average throughput: 5.42 Mbit/s

95th percentile per-packet one-way delay: 67.579 ms

Loss rate: 3.09%

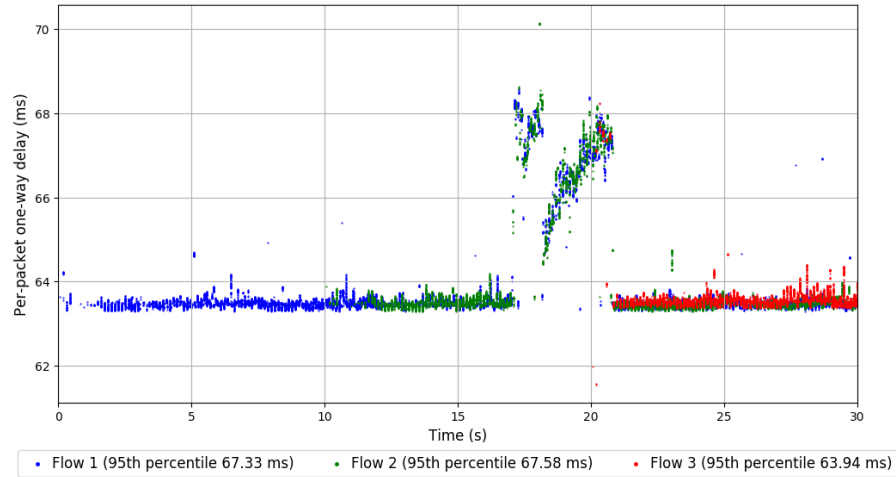
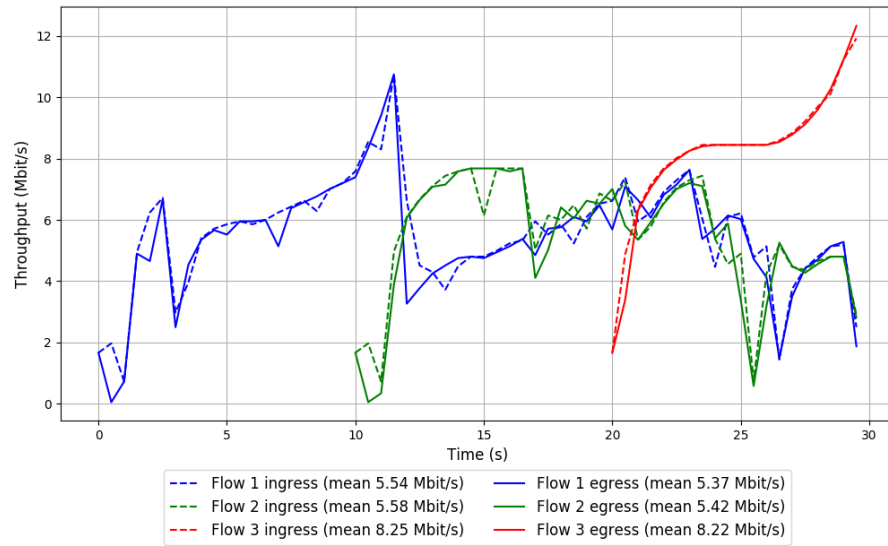
-- Flow 3:

Average throughput: 8.22 Mbit/s

95th percentile per-packet one-way delay: 63.939 ms

Loss rate: 0.92%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-08-12 15:38:30

End at: 2017-08-12 15:39:00

Below is generated by plot.py at 2017-08-12 17:48:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.93 Mbit/s

95th percentile per-packet one-way delay: 64.905 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 94.61 Mbit/s

95th percentile per-packet one-way delay: 64.926 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 1.48 Mbit/s

95th percentile per-packet one-way delay: 63.726 ms

Loss rate: 5.39%

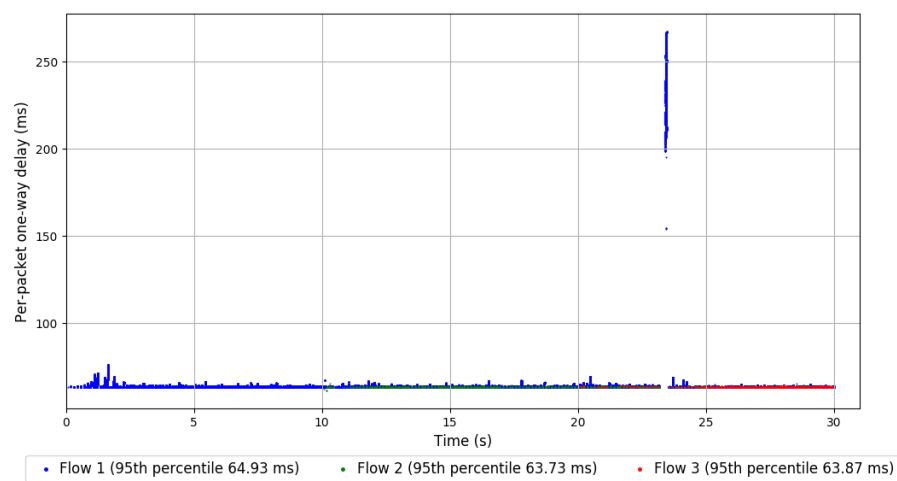
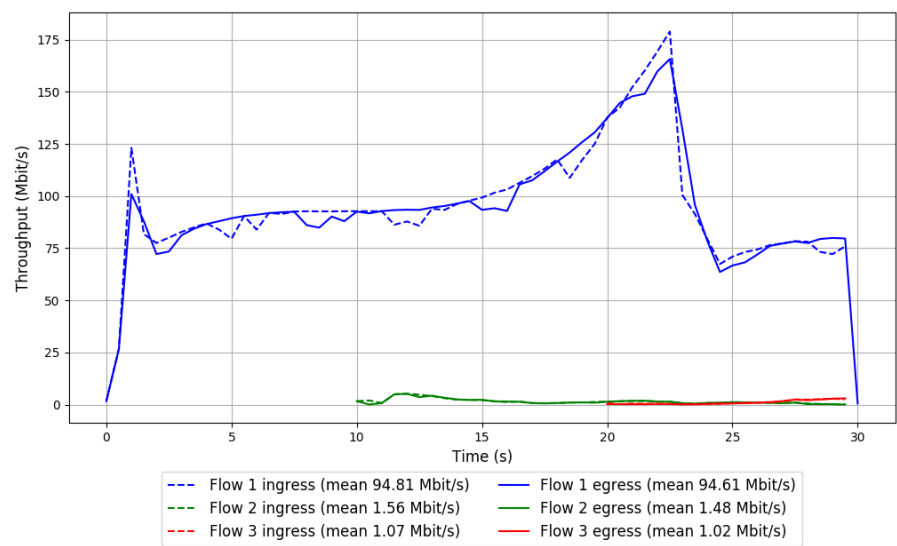
-- Flow 3:

Average throughput: 1.02 Mbit/s

95th percentile per-packet one-way delay: 63.870 ms

Loss rate: 4.86%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-08-12 15:49:54

End at: 2017-08-12 15:50:24

Below is generated by plot.py at 2017-08-12 17:48:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 9.82 Mbit/s

95th percentile per-packet one-way delay: 63.806 ms

Loss rate: 3.70%

-- Flow 1:

Average throughput: 5.61 Mbit/s

95th percentile per-packet one-way delay: 63.762 ms

Loss rate: 2.90%

-- Flow 2:

Average throughput: 4.12 Mbit/s

95th percentile per-packet one-way delay: 63.923 ms

Loss rate: 3.82%

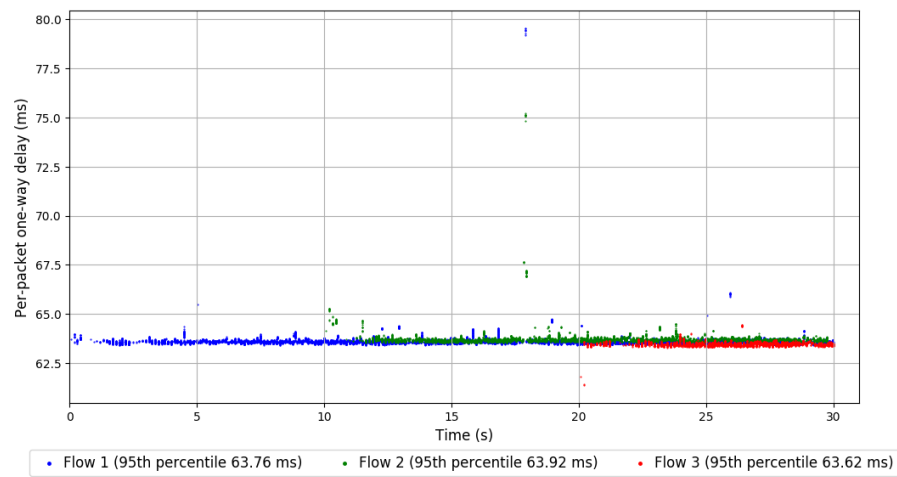
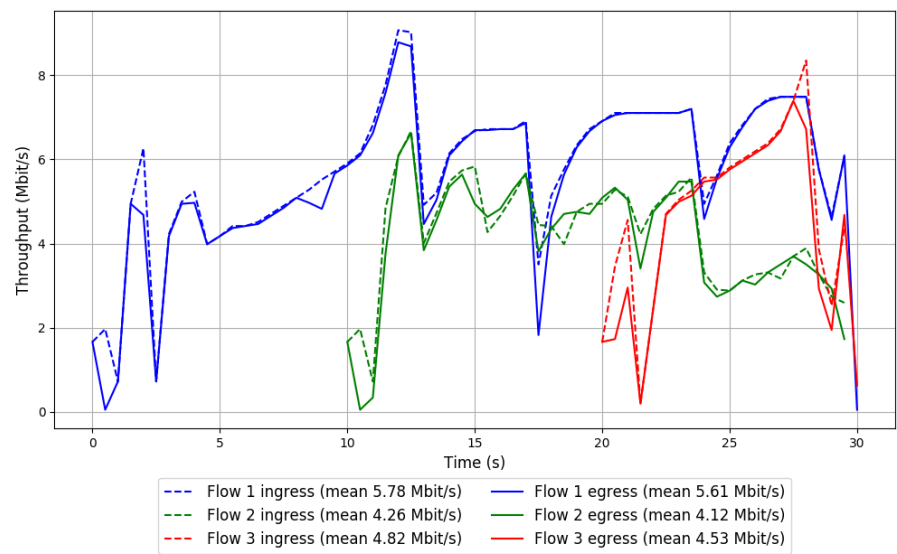
-- Flow 3:

Average throughput: 4.53 Mbit/s

95th percentile per-packet one-way delay: 63.616 ms

Loss rate: 6.37%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-08-12 16:00:52

End at: 2017-08-12 16:01:22

Below is generated by plot.py at 2017-08-12 17:48:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 63.76 Mbit/s

95th percentile per-packet one-way delay: 63.455 ms

Loss rate: 1.59%

-- Flow 1:

Average throughput: 39.44 Mbit/s

95th percentile per-packet one-way delay: 62.511 ms

Loss rate: 2.07%

-- Flow 2:

Average throughput: 4.30 Mbit/s

95th percentile per-packet one-way delay: 63.673 ms

Loss rate: 2.98%

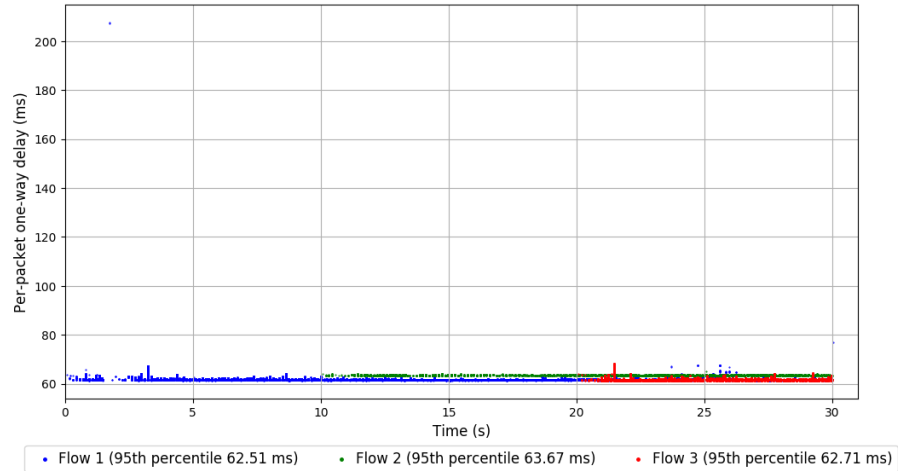
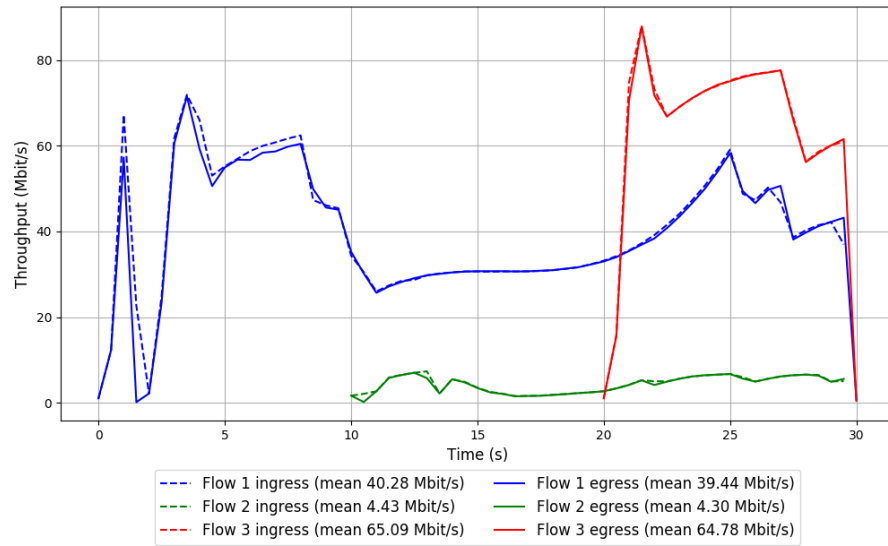
-- Flow 3:

Average throughput: 64.78 Mbit/s

95th percentile per-packet one-way delay: 62.710 ms

Loss rate: 0.50%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-08-12 16:12:04

End at: 2017-08-12 16:12:34

Below is generated by plot.py at 2017-08-12 17:48:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.21 Mbit/s

95th percentile per-packet one-way delay: 63.886 ms

Loss rate: 3.57%

-- Flow 1:

Average throughput: 5.86 Mbit/s

95th percentile per-packet one-way delay: 65.041 ms

Loss rate: 2.62%

-- Flow 2:

Average throughput: 14.75 Mbit/s

95th percentile per-packet one-way delay: 63.604 ms

Loss rate: 3.59%

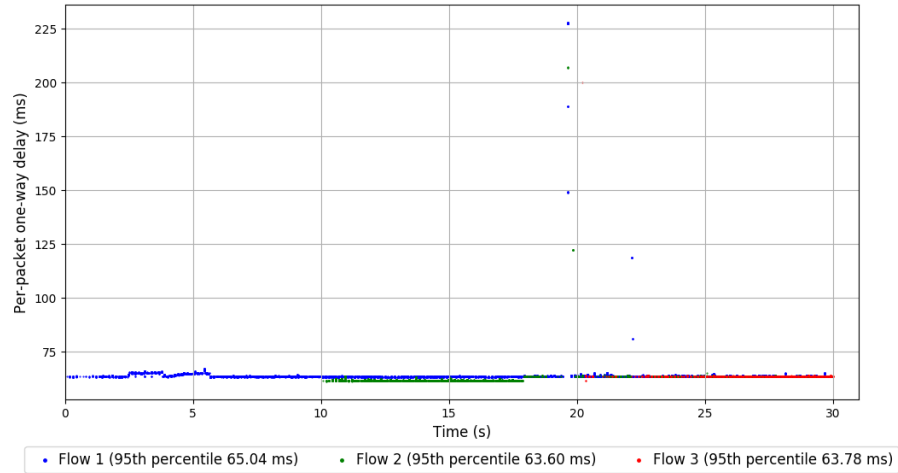
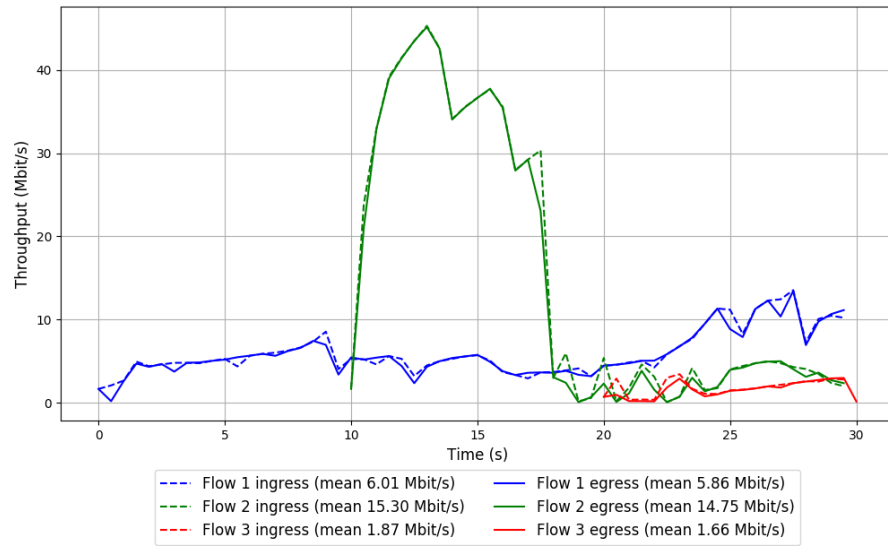
-- Flow 3:

Average throughput: 1.66 Mbit/s

95th percentile per-packet one-way delay: 63.777 ms

Loss rate: 12.36%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-08-12 16:23:41

End at: 2017-08-12 16:24:11

Below is generated by plot.py at 2017-08-12 17:48:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.23 Mbit/s

95th percentile per-packet one-way delay: 64.336 ms

Loss rate: 2.15%

-- Flow 1:

Average throughput: 11.16 Mbit/s

95th percentile per-packet one-way delay: 64.094 ms

Loss rate: 1.03%

-- Flow 2:

Average throughput: 23.08 Mbit/s

95th percentile per-packet one-way delay: 66.146 ms

Loss rate: 4.57%

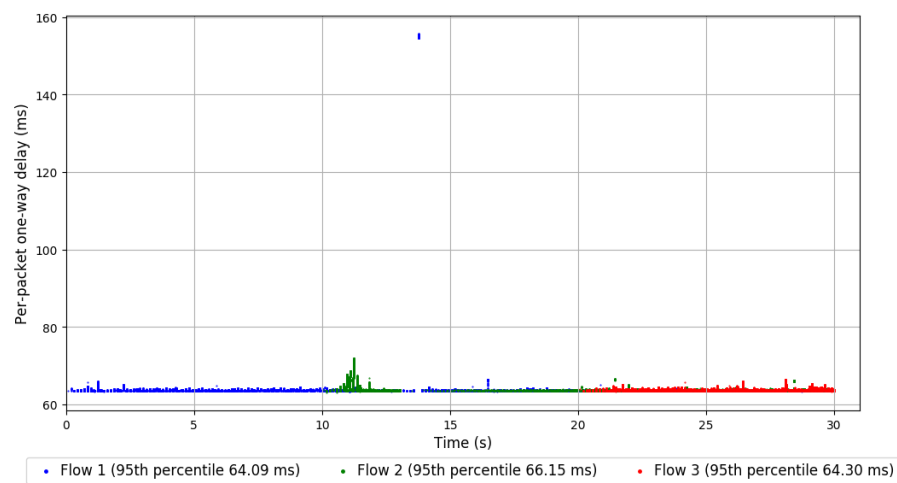
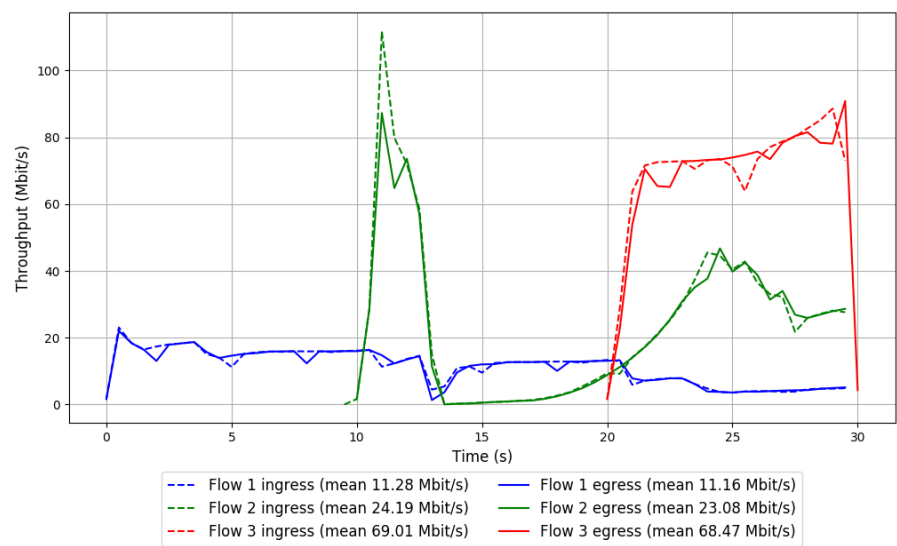
-- Flow 3:

Average throughput: 68.47 Mbit/s

95th percentile per-packet one-way delay: 64.298 ms

Loss rate: 1.00%

Run 10: Report of TCP Cubic — Data Link

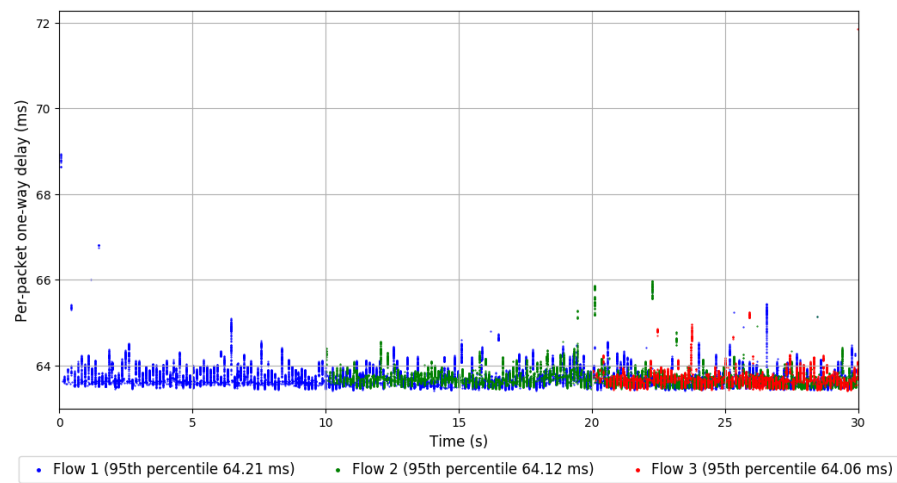
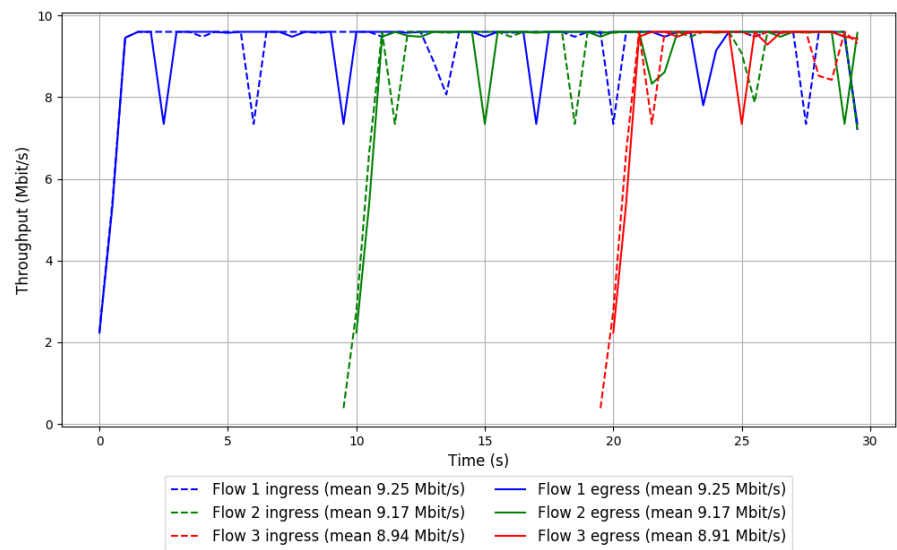


```
Run 1: Statistics of KohoCC

Start at: 2017-08-12 14:40:24
End at: 2017-08-12 14:40:54

# Below is generated by plot.py at 2017-08-12 17:48:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.30 Mbit/s
95th percentile per-packet one-way delay: 64.162 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 9.25 Mbit/s
95th percentile per-packet one-way delay: 64.206 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 9.17 Mbit/s
95th percentile per-packet one-way delay: 64.124 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 8.91 Mbit/s
95th percentile per-packet one-way delay: 64.062 ms
Loss rate: 0.19%
```

Run 1: Report of KohoCC — Data Link

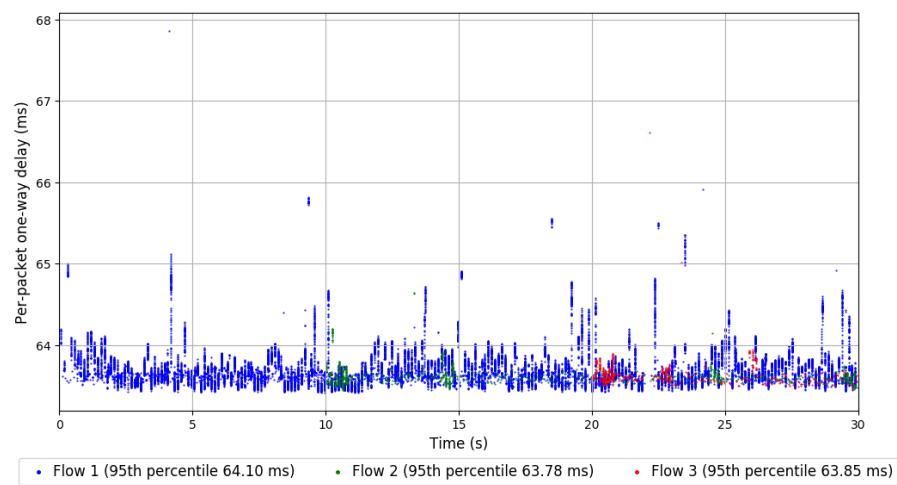
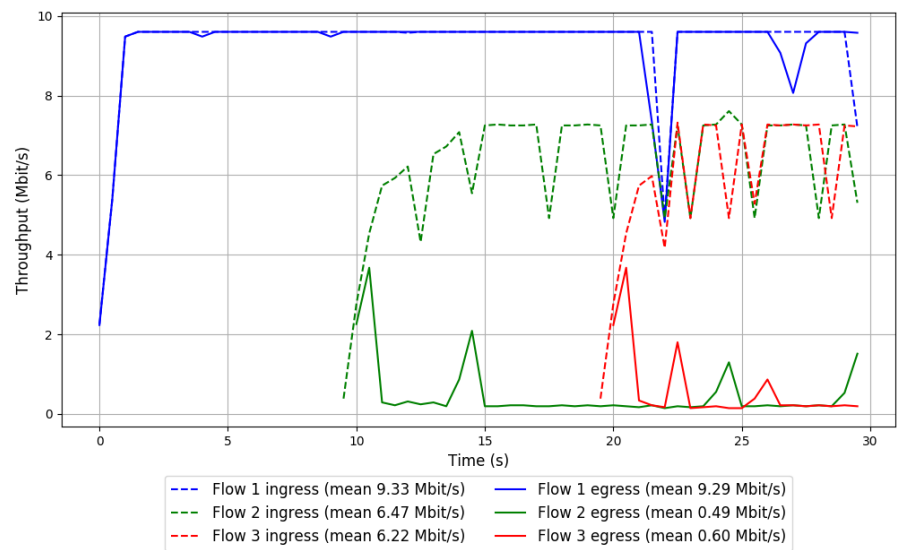


```
Run 2: Statistics of KohoCC

Start at: 2017-08-12 14:52:02
End at: 2017-08-12 14:52:32

# Below is generated by plot.py at 2017-08-12 17:48:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 9.81 Mbit/s
95th percentile per-packet one-way delay: 64.090 ms
Loss rate: 37.57%
-- Flow 1:
Average throughput: 9.29 Mbit/s
95th percentile per-packet one-way delay: 64.101 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 0.49 Mbit/s
95th percentile per-packet one-way delay: 63.782 ms
Loss rate: 92.47%
-- Flow 3:
Average throughput: 0.60 Mbit/s
95th percentile per-packet one-way delay: 63.847 ms
Loss rate: 90.36%
```

Run 2: Report of KohoCC — Data Link



Run 3: Statistics of KohoCC

Start at: 2017-08-12 15:04:00

End at: 2017-08-12 15:04:30

Below is generated by plot.py at 2017-08-12 17:49:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.24 Mbit/s

95th percentile per-packet one-way delay: 64.070 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 9.23 Mbit/s

95th percentile per-packet one-way delay: 64.029 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 9.12 Mbit/s

95th percentile per-packet one-way delay: 64.186 ms

Loss rate: 0.34%

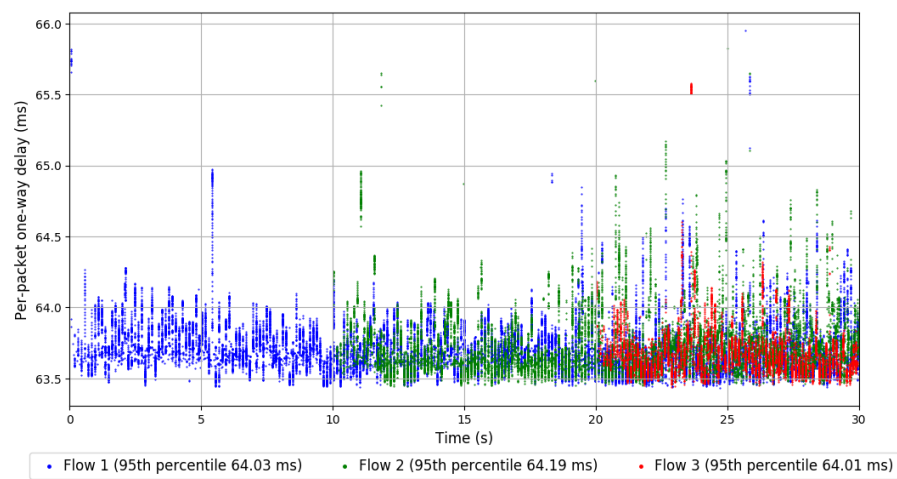
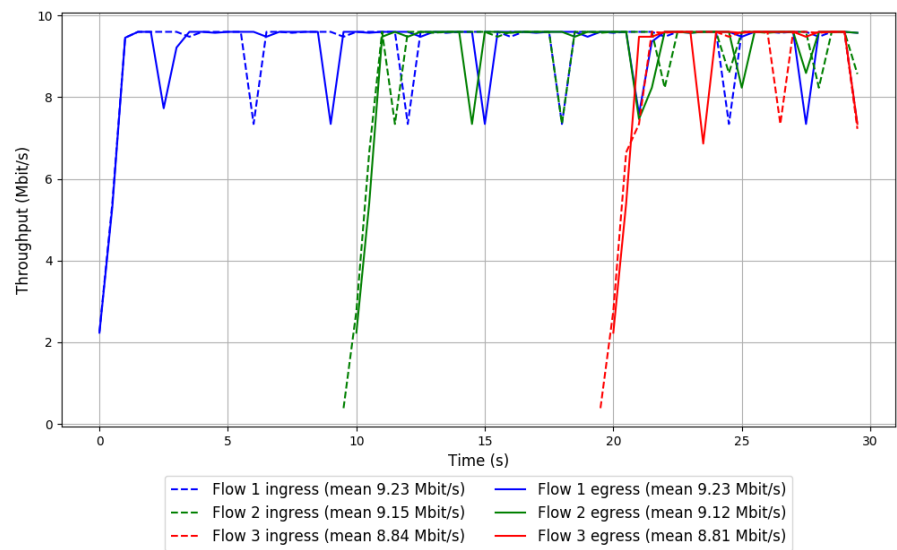
-- Flow 3:

Average throughput: 8.81 Mbit/s

95th percentile per-packet one-way delay: 64.014 ms

Loss rate: 0.27%

Run 3: Report of KohoCC — Data Link



Run 4: Statistics of KohoCC

Start at: 2017-08-12 15:15:46

End at: 2017-08-12 15:16:16

Below is generated by plot.py at 2017-08-12 17:49:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.34 Mbit/s

95th percentile per-packet one-way delay: 63.949 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 9.20 Mbit/s

95th percentile per-packet one-way delay: 63.957 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 9.28 Mbit/s

95th percentile per-packet one-way delay: 63.884 ms

Loss rate: 0.14%

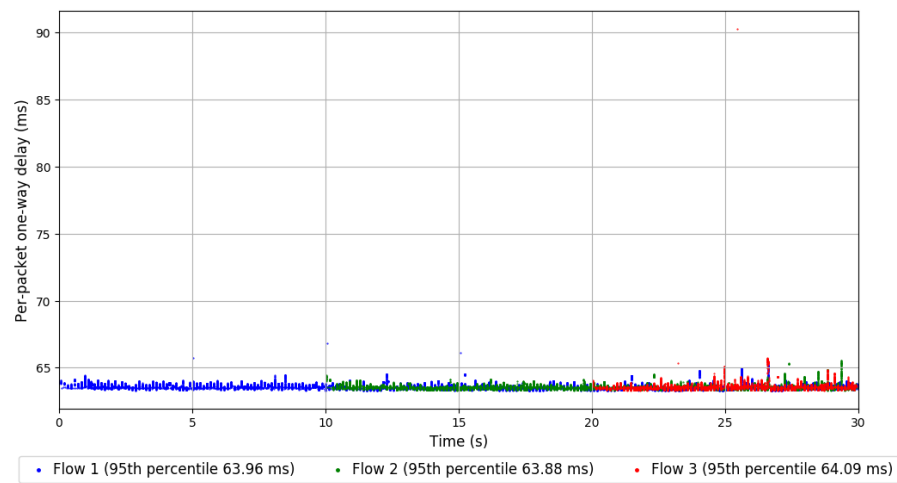
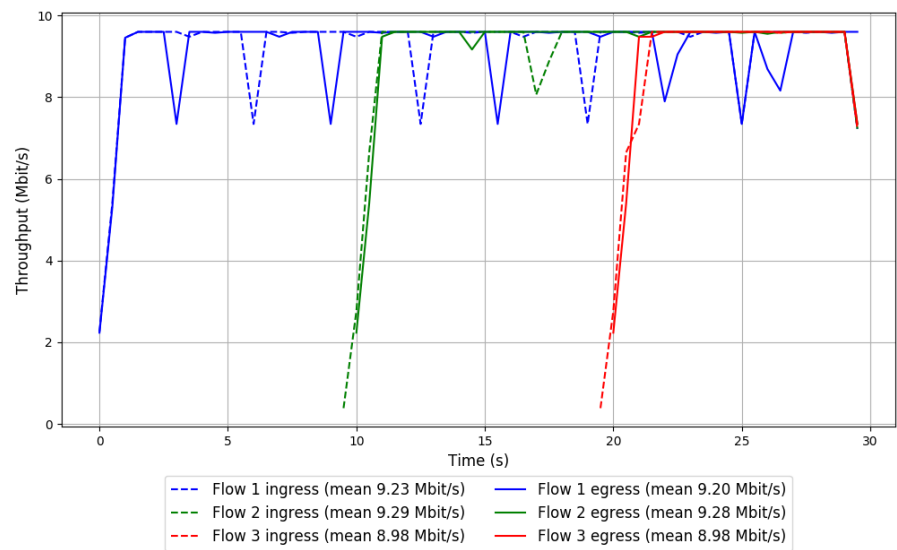
-- Flow 3:

Average throughput: 8.98 Mbit/s

95th percentile per-packet one-way delay: 64.092 ms

Loss rate: 0.00%

Run 4: Report of KohoCC — Data Link



Run 5: Statistics of KohoCC

Start at: 2017-08-12 15:27:29

End at: 2017-08-12 15:27:59

Below is generated by plot.py at 2017-08-12 17:49:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.60 Mbit/s

95th percentile per-packet one-way delay: 63.875 ms

Loss rate: 10.76%

-- Flow 1:

Average throughput: 9.22 Mbit/s

95th percentile per-packet one-way delay: 63.833 ms

Loss rate: 1.27%

-- Flow 2:

Average throughput: 9.09 Mbit/s

95th percentile per-packet one-way delay: 63.889 ms

Loss rate: 0.75%

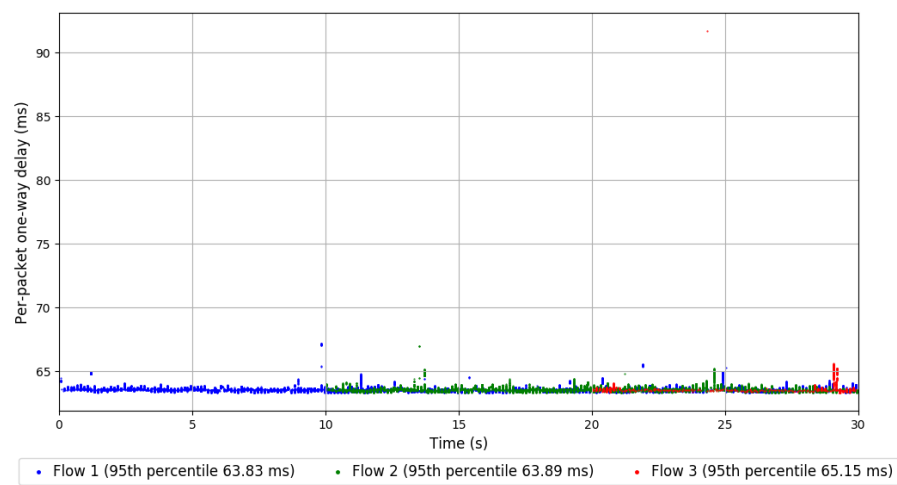
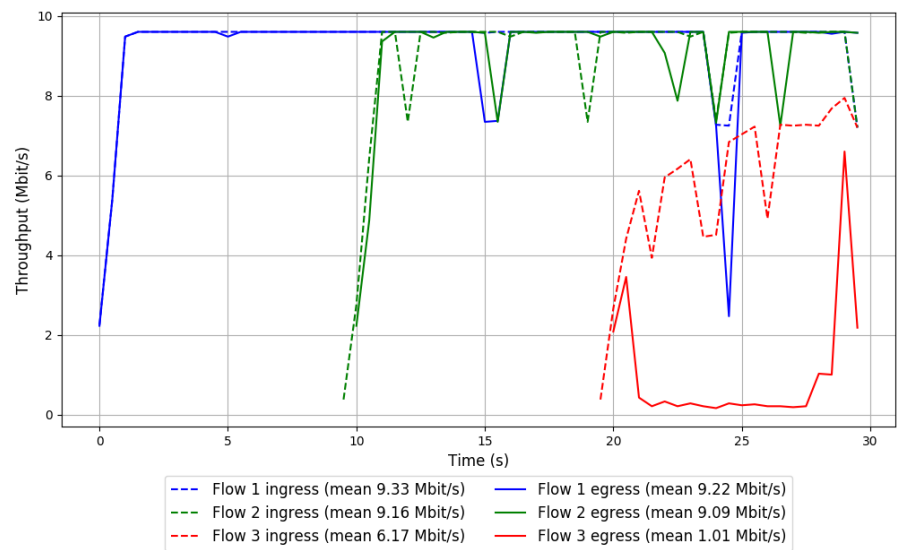
-- Flow 3:

Average throughput: 1.01 Mbit/s

95th percentile per-packet one-way delay: 65.153 ms

Loss rate: 83.76%

Run 5: Report of KohoCC — Data Link



Run 6: Statistics of KohoCC

Start at: 2017-08-12 15:39:17

End at: 2017-08-12 15:39:47

Below is generated by plot.py at 2017-08-12 17:49:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 9.41 Mbit/s

95th percentile per-packet one-way delay: 63.880 ms

Loss rate: 40.16%

-- Flow 1:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 64.520 ms

Loss rate: 94.81%

-- Flow 2:

Average throughput: 9.13 Mbit/s

95th percentile per-packet one-way delay: 63.864 ms

Loss rate: 0.31%

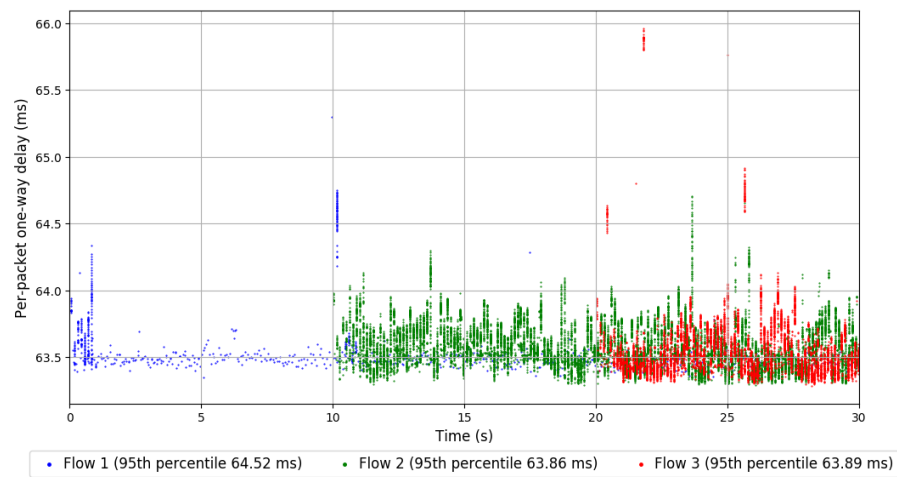
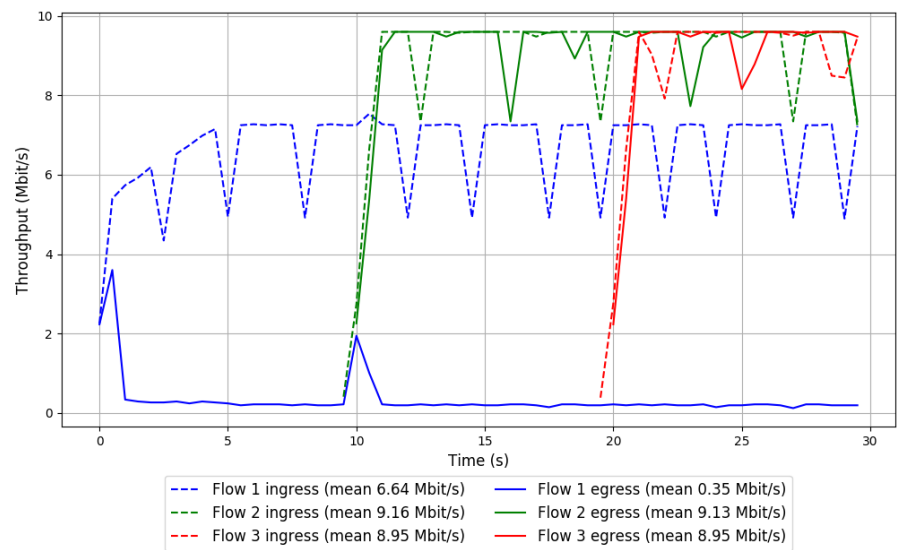
-- Flow 3:

Average throughput: 8.95 Mbit/s

95th percentile per-packet one-way delay: 63.890 ms

Loss rate: 0.00%

Run 6: Report of KohoCC — Data Link



Run 7: Statistics of KohoCC

Start at: 2017-08-12 15:50:36

End at: 2017-08-12 15:51:06

Below is generated by plot.py at 2017-08-12 17:49:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 63.901 ms

Loss rate: 93.56%

-- Flow 1:

Average throughput: 3.77 Mbit/s

95th percentile per-packet one-way delay: 484.419 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 63.886 ms

Loss rate: 94.58%

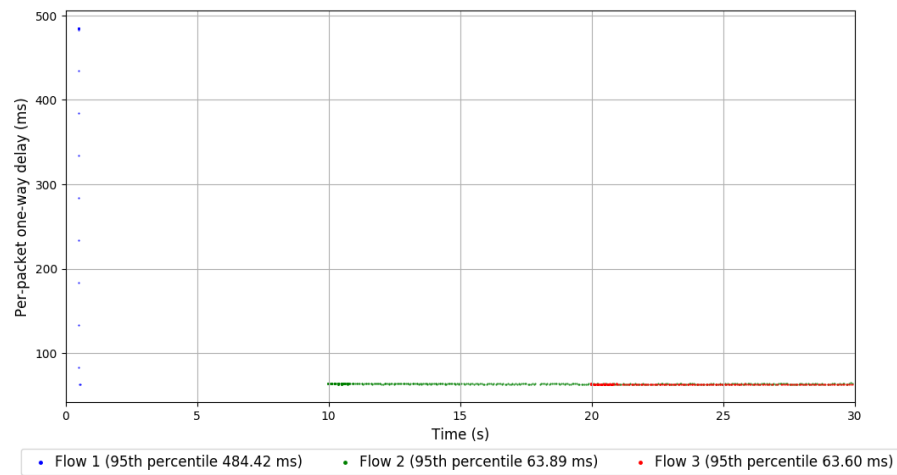
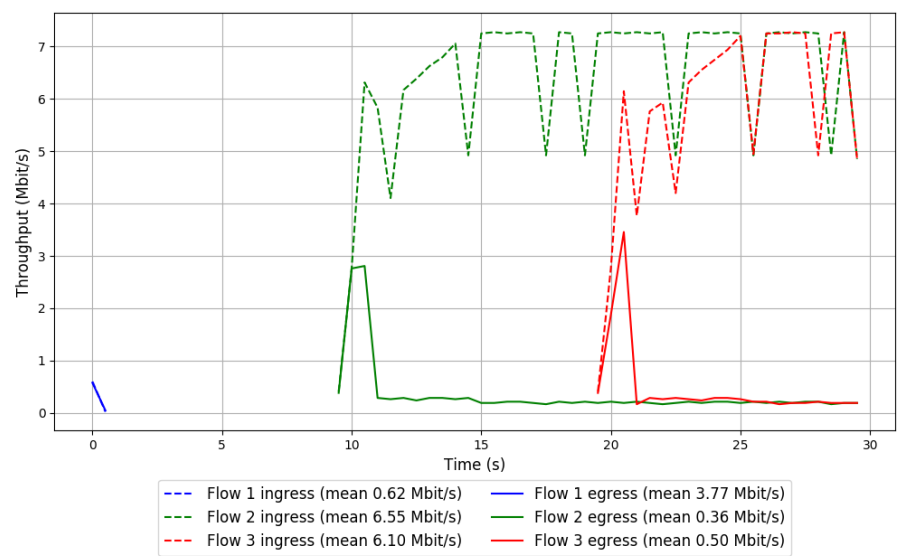
-- Flow 3:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 63.602 ms

Loss rate: 91.87%

Run 7: Report of KohoCC — Data Link



Run 8: Statistics of KohoCC

Start at: 2017-08-12 16:01:37

End at: 2017-08-12 16:02:07

Below is generated by plot.py at 2017-08-12 17:49:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.73 Mbit/s

95th percentile per-packet one-way delay: 65.451 ms

Loss rate: 94.35%

-- Flow 1:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 65.018 ms

Loss rate: 94.89%

-- Flow 2:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 63.859 ms

Loss rate: 94.70%

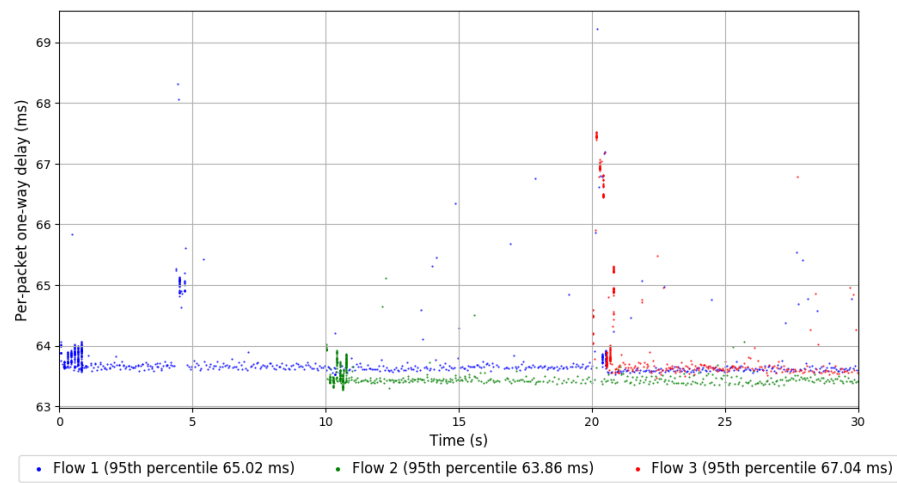
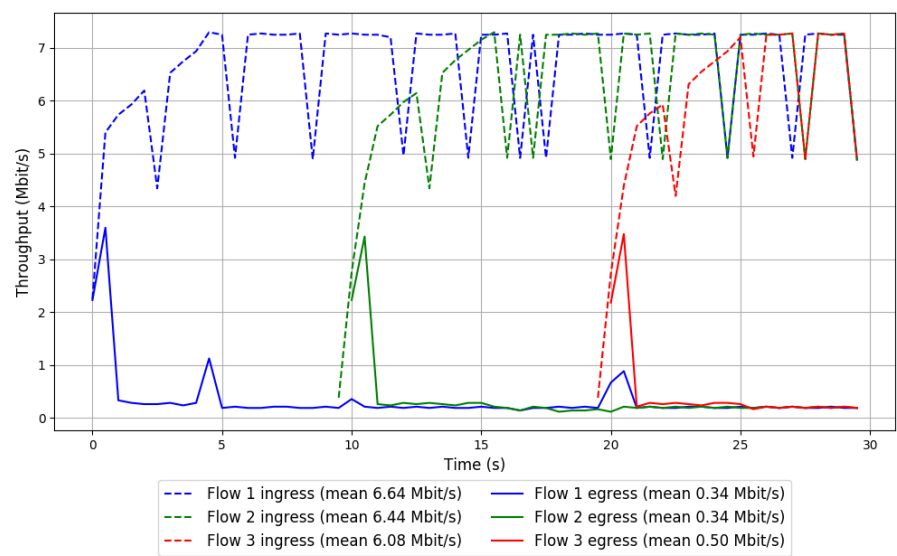
-- Flow 3:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 67.044 ms

Loss rate: 91.84%

Run 8: Report of KohoCC — Data Link



Run 9: Statistics of KohoCC

Start at: 2017-08-12 16:12:46

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

Below is generated by plot.py at 2017-08-12 17:49:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.29 Mbit/s

95th percentile per-packet one-way delay: 63.981 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 9.24 Mbit/s

95th percentile per-packet one-way delay: 64.002 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 9.17 Mbit/s

95th percentile per-packet one-way delay: 63.936 ms

Loss rate: 0.00%

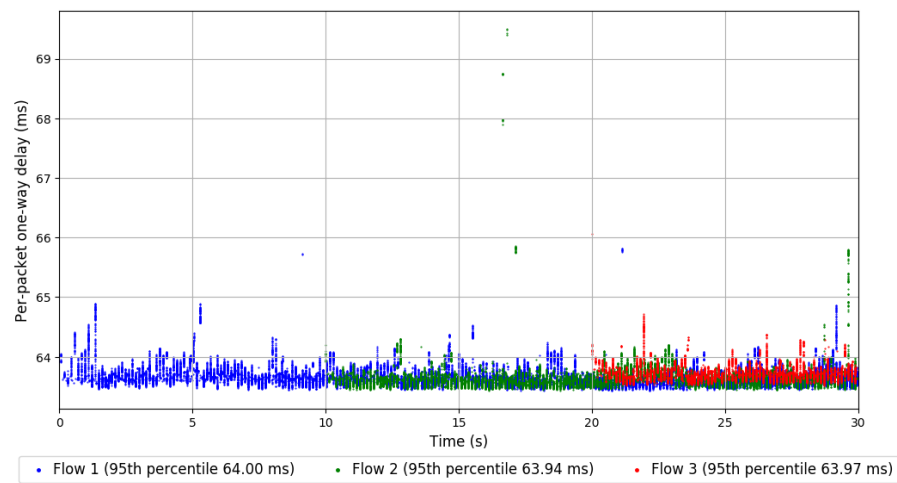
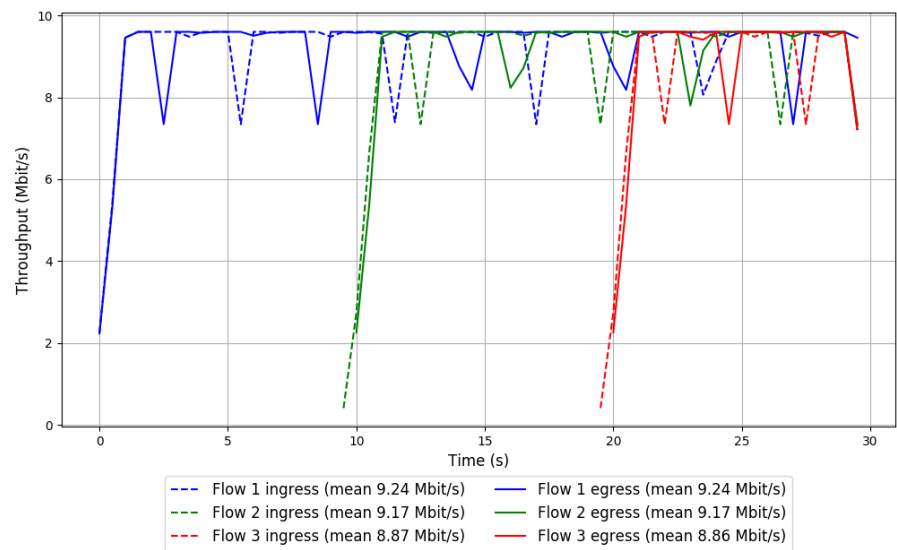
-- Flow 3:

Average throughput: 8.86 Mbit/s

95th percentile per-packet one-way delay: 63.973 ms

Loss rate: 0.11%

Run 9: Report of KohoCC — Data Link

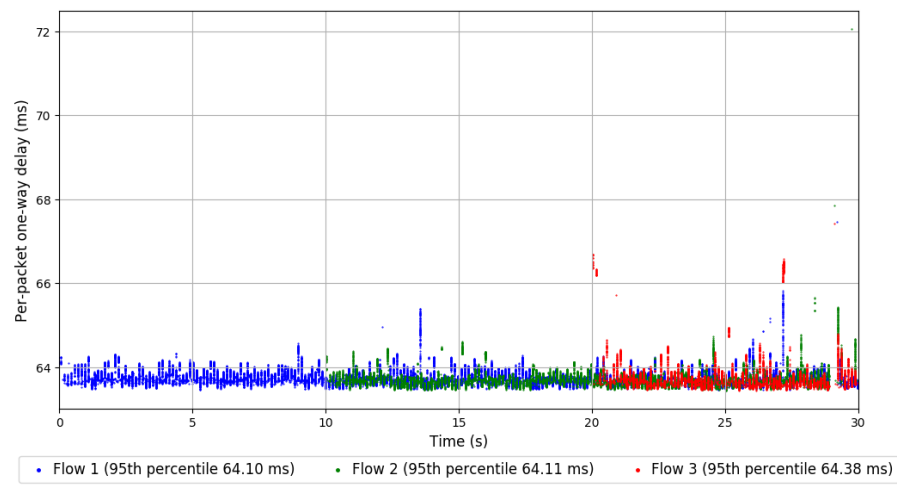
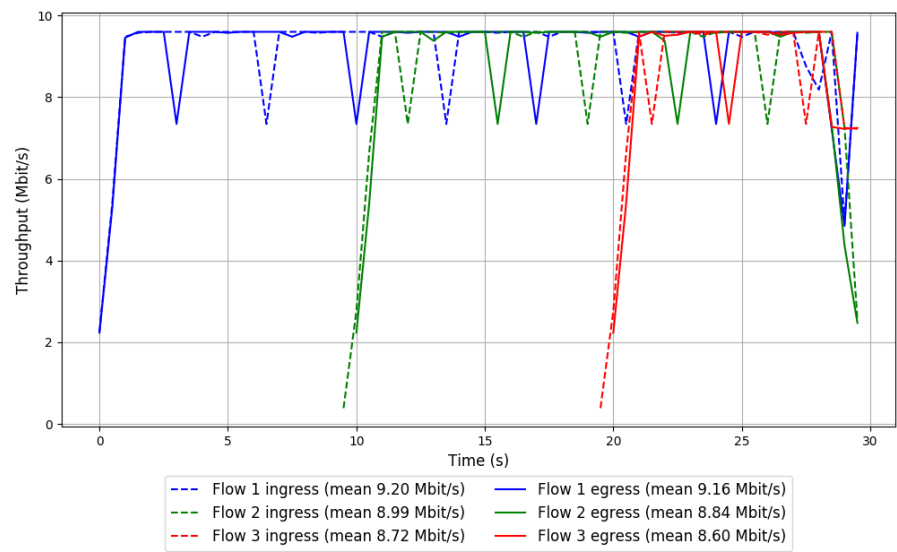


```
Run 10: Statistics of KohoCC

Start at: 2017-08-12 16:24:25
End at: 2017-08-12 16:24:55

# Below is generated by plot.py at 2017-08-12 17:49:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 17.91 Mbit/s
95th percentile per-packet one-way delay: 64.132 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 9.16 Mbit/s
95th percentile per-packet one-way delay: 64.096 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 8.84 Mbit/s
95th percentile per-packet one-way delay: 64.109 ms
Loss rate: 1.58%
-- Flow 3:
Average throughput: 8.60 Mbit/s
95th percentile per-packet one-way delay: 64.381 ms
Loss rate: 1.43%
```

Run 10: Report of KohoCC — Data Link

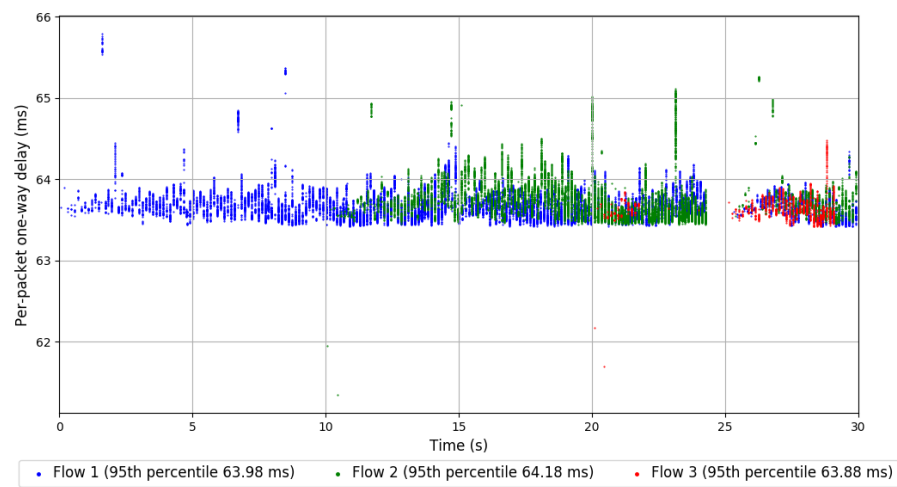
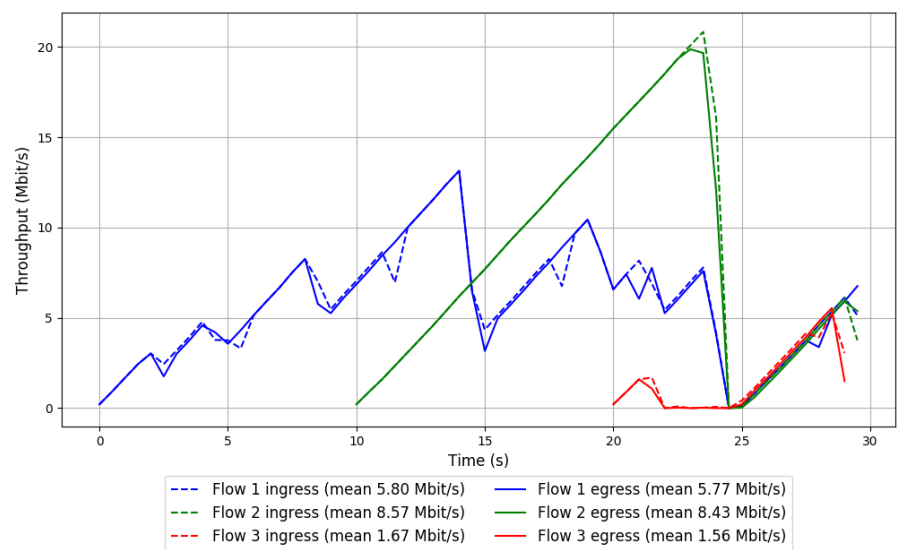


```
Run 1: Statistics of LEDBAT

Start at: 2017-08-12 14:31:59
End at: 2017-08-12 14:32:30

# Below is generated by plot.py at 2017-08-12 17:49:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.83 Mbit/s
95th percentile per-packet one-way delay: 64.082 ms
Loss rate: 1.39%
-- Flow 1:
Average throughput: 5.77 Mbit/s
95th percentile per-packet one-way delay: 63.981 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 8.43 Mbit/s
95th percentile per-packet one-way delay: 64.181 ms
Loss rate: 1.60%
-- Flow 3:
Average throughput: 1.56 Mbit/s
95th percentile per-packet one-way delay: 63.875 ms
Loss rate: 7.56%
```

Run 1: Report of LEDBAT — Data Link

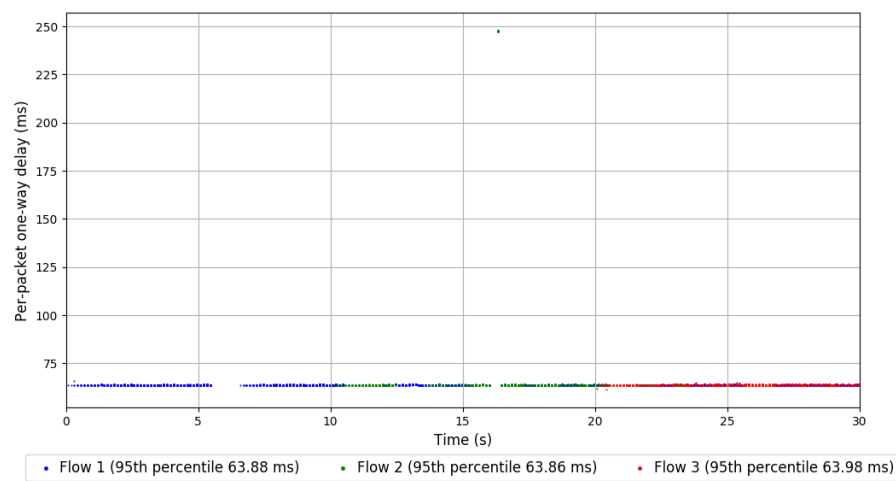
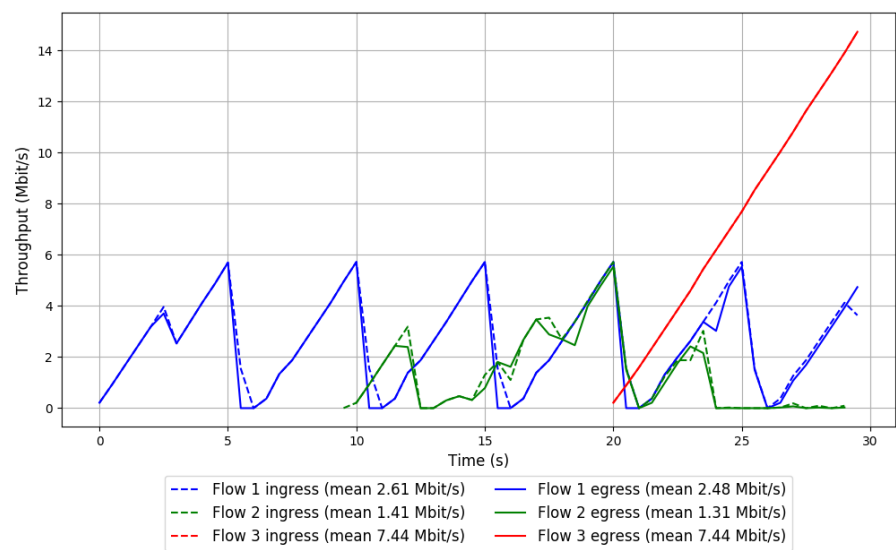


```
Run 2: Statistics of LEDBAT

Start at: 2017-08-12 14:43:38
End at: 2017-08-12 14:44:08

# Below is generated by plot.py at 2017-08-12 17:49:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.78 Mbit/s
95th percentile per-packet one-way delay: 63.934 ms
Loss rate: 3.40%
-- Flow 1:
Average throughput: 2.48 Mbit/s
95th percentile per-packet one-way delay: 63.883 ms
Loss rate: 5.13%
-- Flow 2:
Average throughput: 1.31 Mbit/s
95th percentile per-packet one-way delay: 63.860 ms
Loss rate: 7.62%
-- Flow 3:
Average throughput: 7.44 Mbit/s
95th percentile per-packet one-way delay: 63.979 ms
Loss rate: 0.00%
```


Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-08-12 14:55:21

End at: 2017-08-12 14:55:51

Below is generated by plot.py at 2017-08-12 17:49:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.67 Mbit/s

95th percentile per-packet one-way delay: 64.449 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 8.39 Mbit/s

95th percentile per-packet one-way delay: 64.575 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 14.84 Mbit/s

95th percentile per-packet one-way delay: 64.160 ms

Loss rate: 0.00%

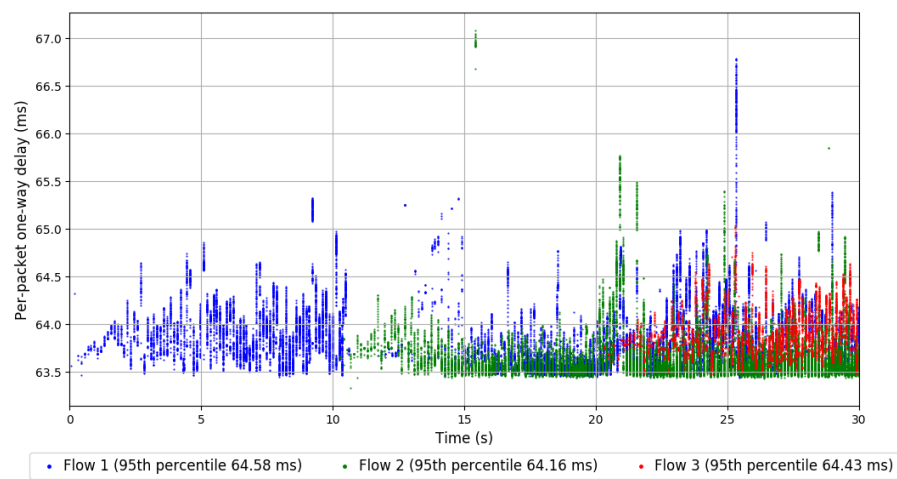
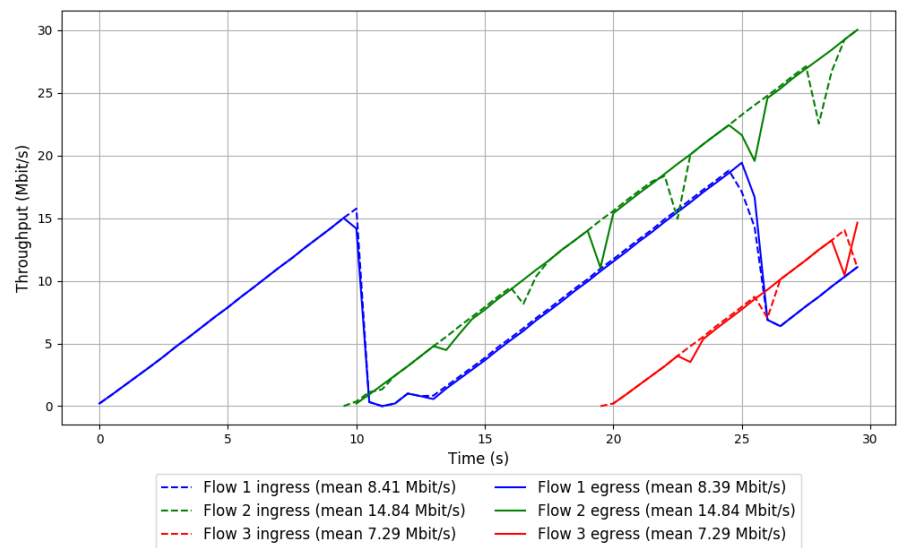
-- Flow 3:

Average throughput: 7.29 Mbit/s

95th percentile per-packet one-way delay: 64.427 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link

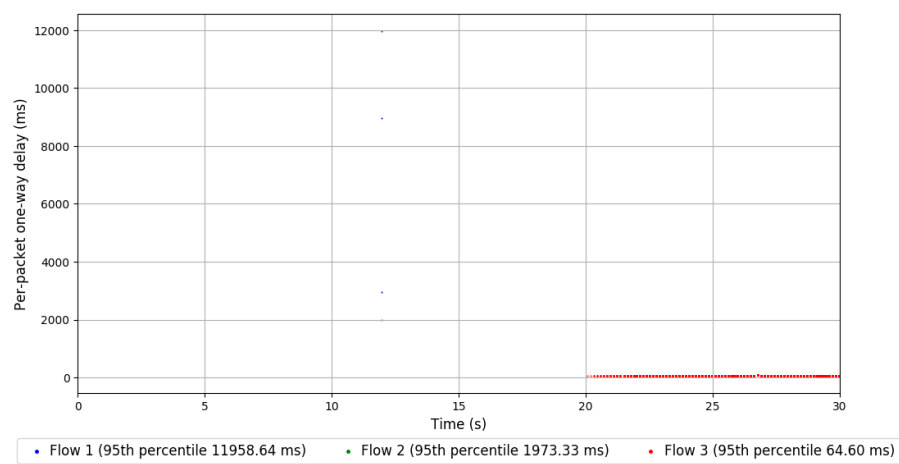
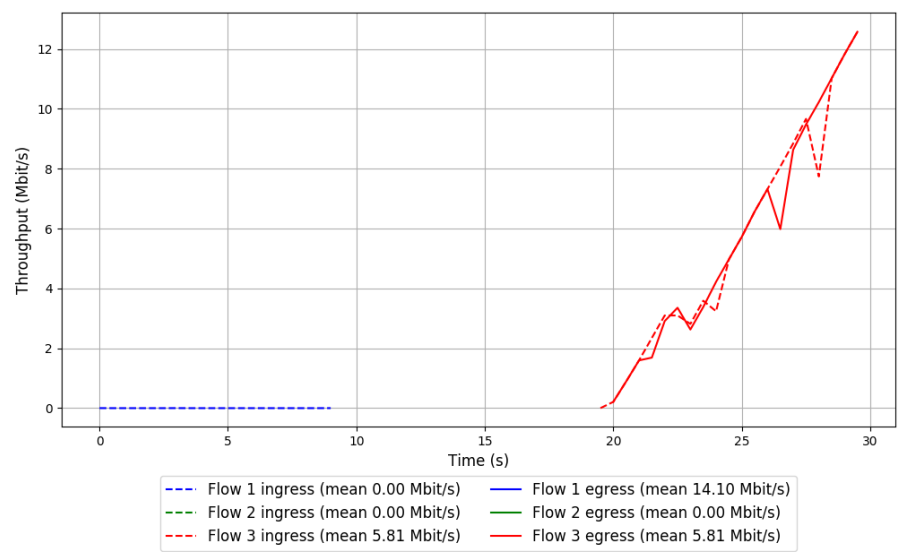


Run 4: Statistics of LEDBAT

Start at: 2017-08-12 15:07:18

End at: 2017-08-12 15:07:48

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-08-12 15:19:09

End at: 2017-08-12 15:19:39

Below is generated by plot.py at 2017-08-12 17:49:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.69 Mbit/s

95th percentile per-packet one-way delay: 63.976 ms

Loss rate: 1.79%

-- Flow 1:

Average throughput: 7.01 Mbit/s

95th percentile per-packet one-way delay: 63.937 ms

Loss rate: 1.90%

-- Flow 2:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 63.787 ms

Loss rate: 4.13%

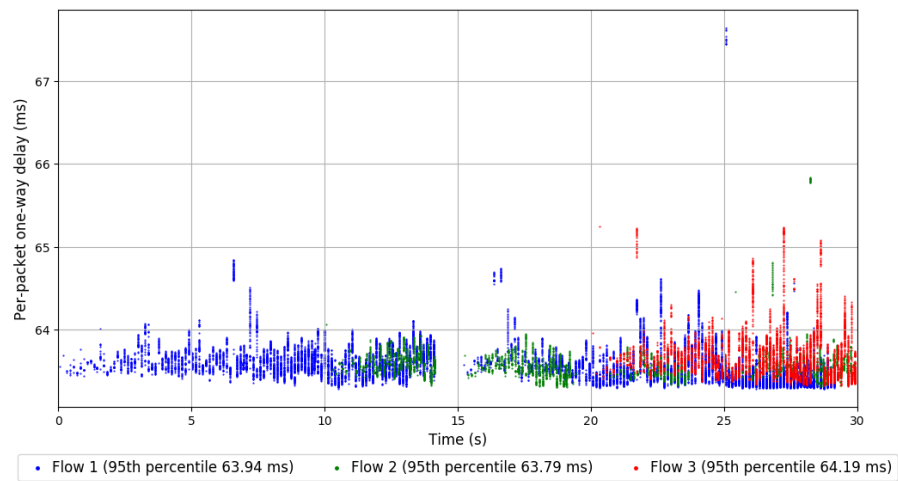
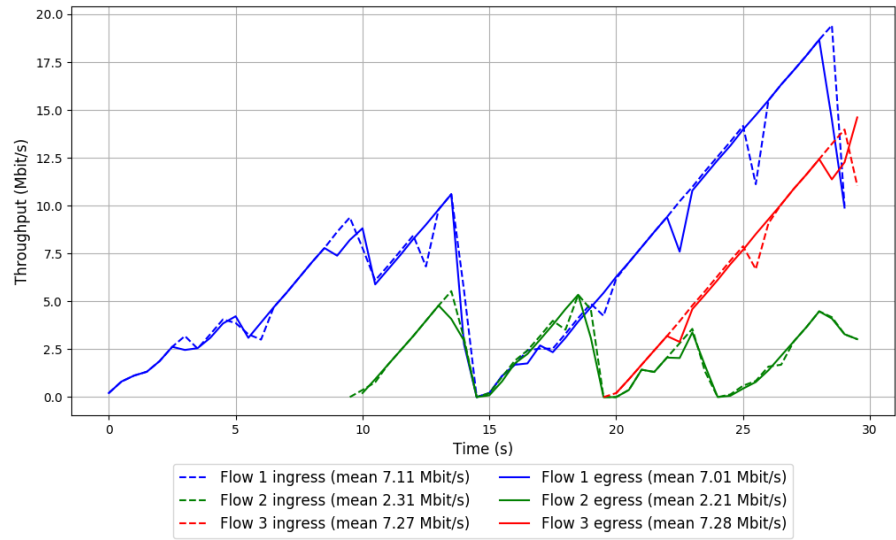
-- Flow 3:

Average throughput: 7.28 Mbit/s

95th percentile per-packet one-way delay: 64.192 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-08-12 15:30:48

End at: 2017-08-12 15:31:18

Below is generated by plot.py at 2017-08-12 17:49:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.54 Mbit/s

95th percentile per-packet one-way delay: 63.991 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 11.11 Mbit/s

95th percentile per-packet one-way delay: 64.014 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 5.79 Mbit/s

95th percentile per-packet one-way delay: 63.844 ms

Loss rate: 0.09%

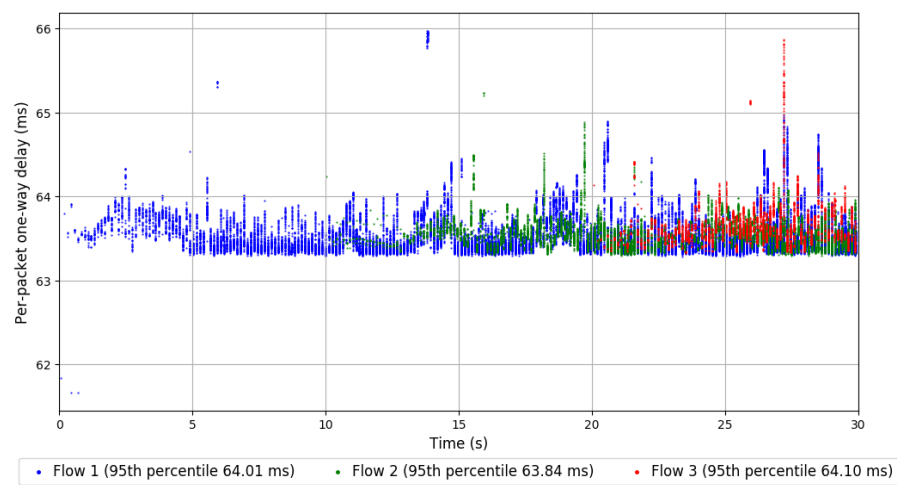
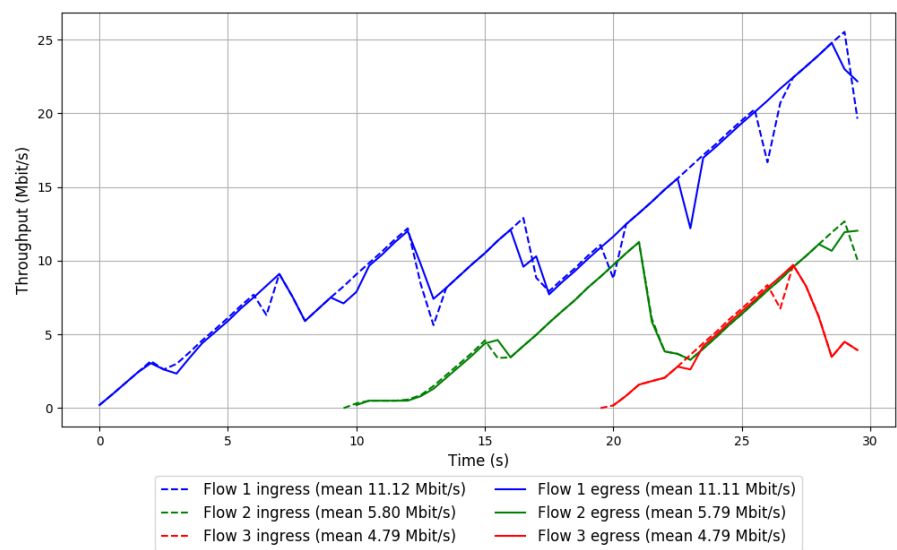
-- Flow 3:

Average throughput: 4.79 Mbit/s

95th percentile per-packet one-way delay: 64.097 ms

Loss rate: 0.05%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-08-12 15:42:34

End at: 2017-08-12 15:43:04

Below is generated by plot.py at 2017-08-12 17:49:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.18 Mbit/s

95th percentile per-packet one-way delay: 63.748 ms

Loss rate: 4.78%

-- Flow 1:

Average throughput: 2.39 Mbit/s

95th percentile per-packet one-way delay: 63.737 ms

Loss rate: 4.94%

-- Flow 2:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 63.786 ms

Loss rate: 4.66%

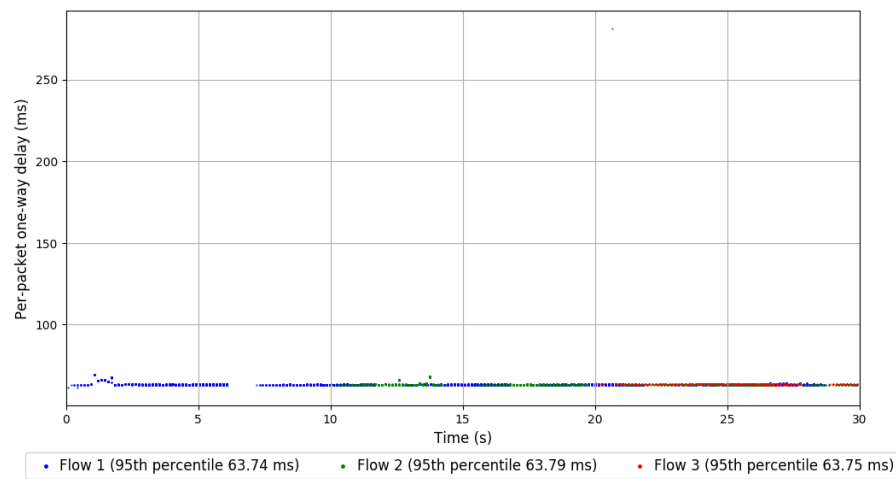
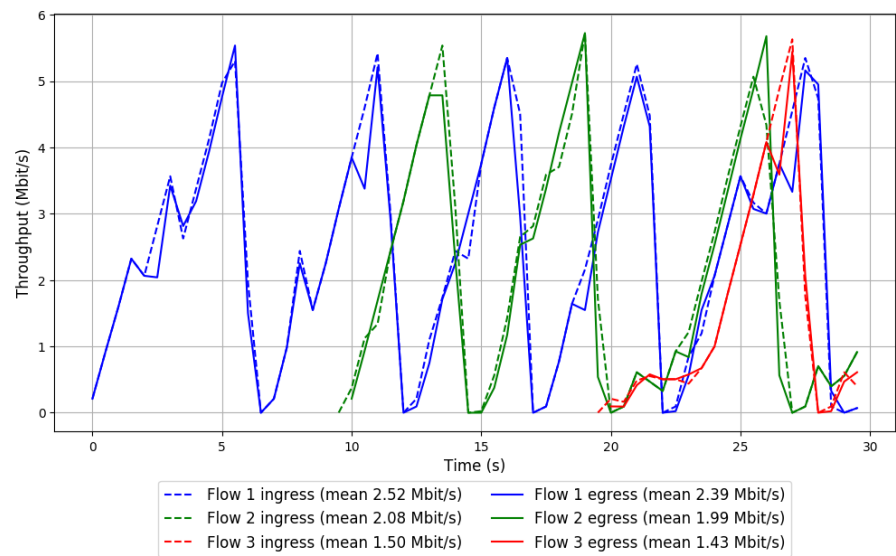
-- Flow 3:

Average throughput: 1.43 Mbit/s

95th percentile per-packet one-way delay: 63.754 ms

Loss rate: 4.28%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-08-12 15:53:26

End at: 2017-08-12 15:53:56

Below is generated by plot.py at 2017-08-12 17:49:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.06 Mbit/s

95th percentile per-packet one-way delay: 63.855 ms

Loss rate: 4.64%

-- Flow 1:

Average throughput: 2.71 Mbit/s

95th percentile per-packet one-way delay: 63.833 ms

Loss rate: 4.10%

-- Flow 2:

Average throughput: 2.73 Mbit/s

95th percentile per-packet one-way delay: 63.870 ms

Loss rate: 4.41%

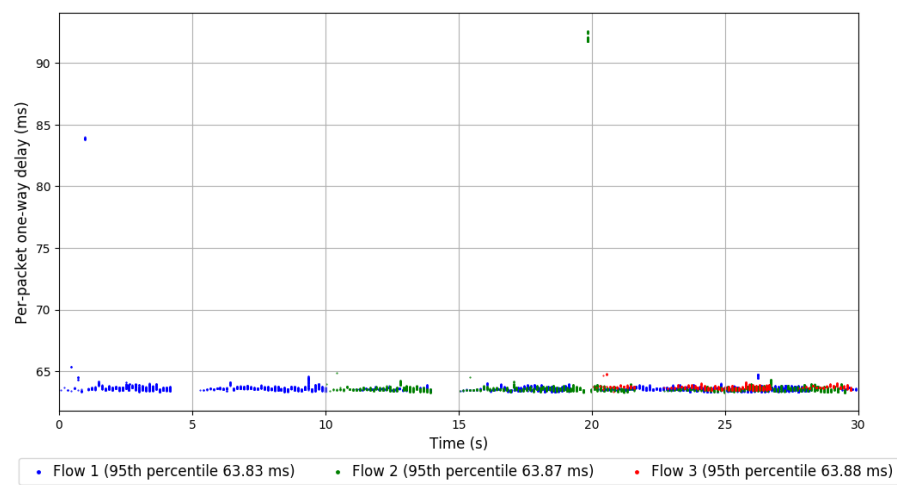
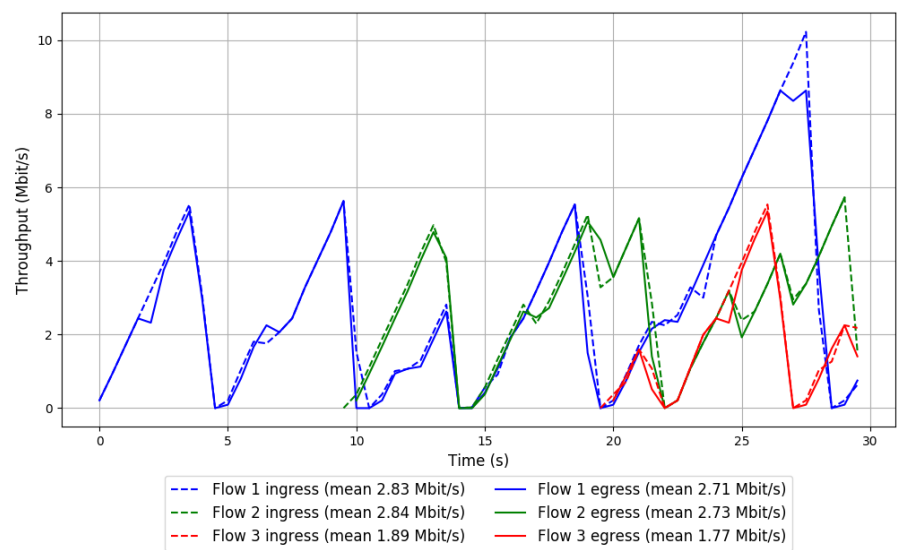
-- Flow 3:

Average throughput: 1.77 Mbit/s

95th percentile per-packet one-way delay: 63.880 ms

Loss rate: 7.80%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-08-12 16:04:39

End at: 2017-08-12 16:05:09

Below is generated by plot.py at 2017-08-12 17:49:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 14.34 Mbit/s

95th percentile per-packet one-way delay: 62.480 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 11.58 Mbit/s

95th percentile per-packet one-way delay: 62.236 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 3.76 Mbit/s

95th percentile per-packet one-way delay: 62.102 ms

Loss rate: 1.82%

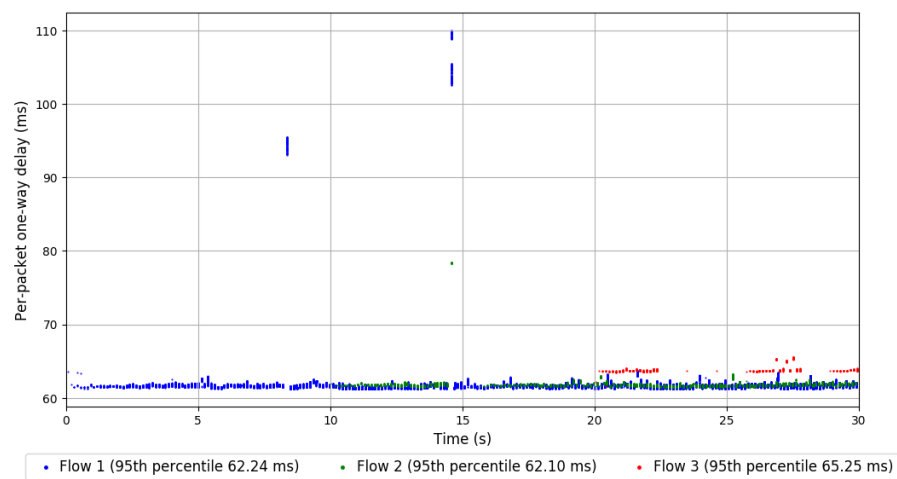
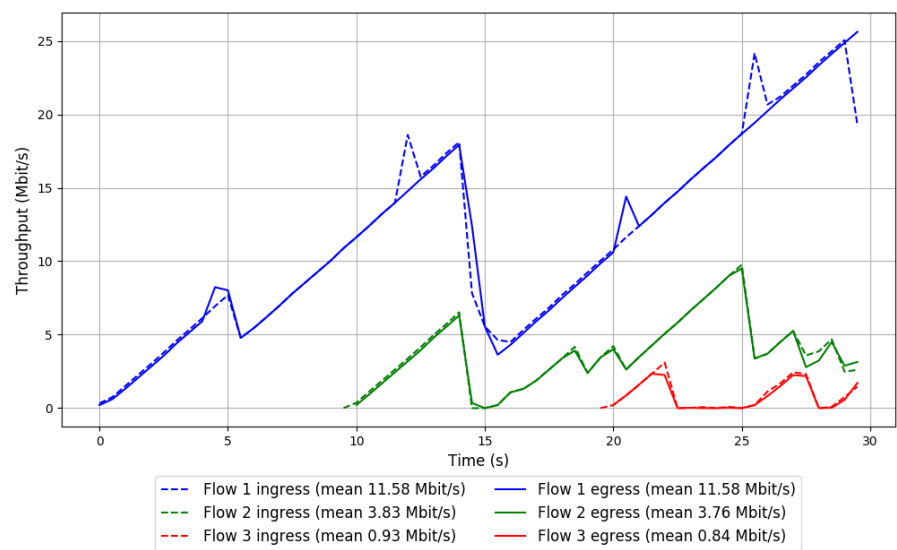
-- Flow 3:

Average throughput: 0.84 Mbit/s

95th percentile per-packet one-way delay: 65.249 ms

Loss rate: 9.82%

Run 9: Report of LEDBAT — Data Link

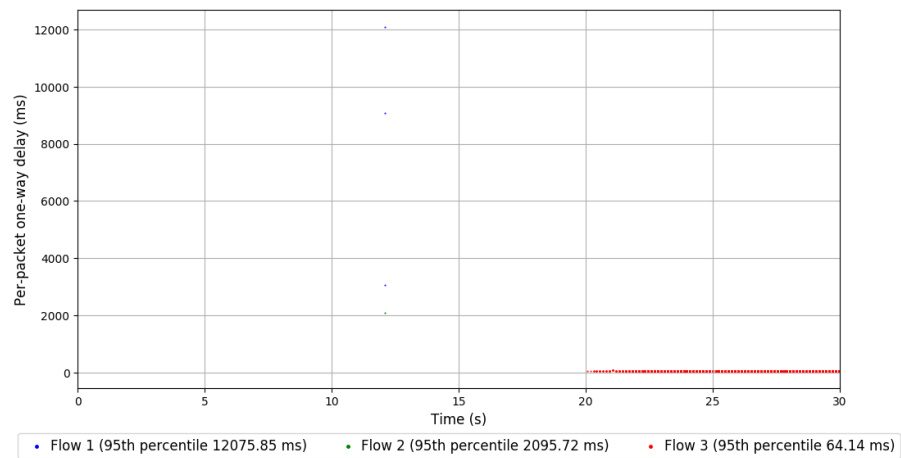
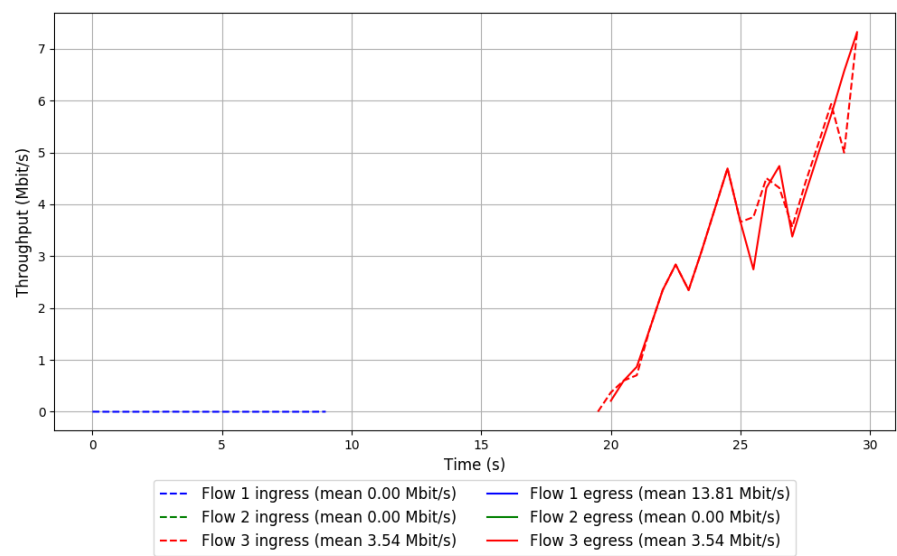


Run 10: Statistics of LEDBAT

Start at: 2017-08-12 16:16:03

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

Run 10: Report of LEDBAT — Data Link

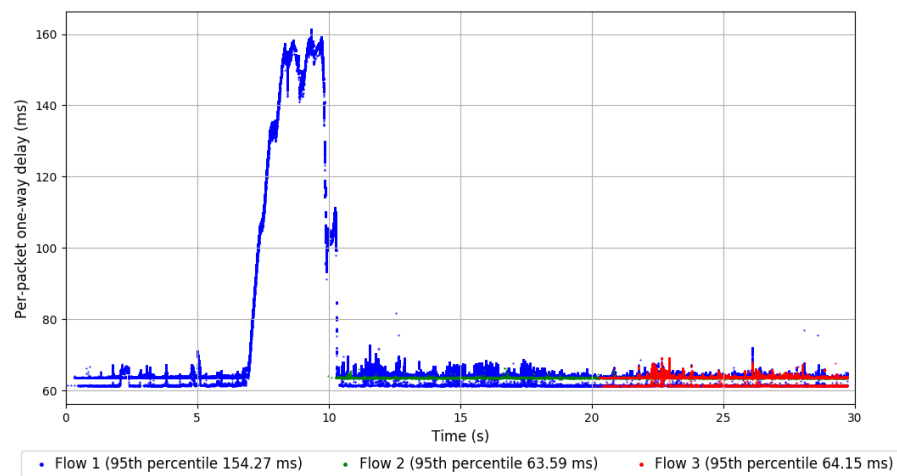
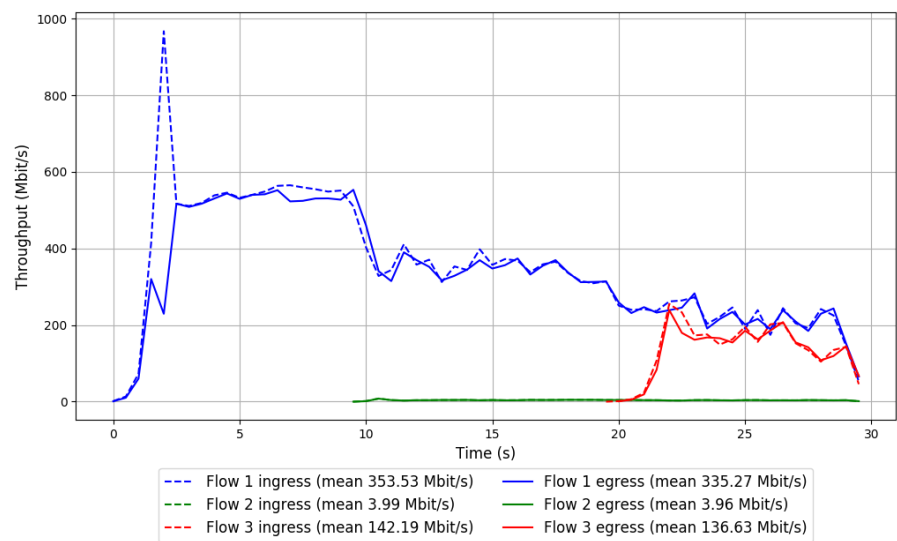


```
Run 1: Statistics of PCC

Start at: 2017-08-12 14:36:13
End at: 2017-08-12 14:36:43

# Below is generated by plot.py at 2017-08-12 17:50:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 382.62 Mbit/s
95th percentile per-packet one-way delay: 153.464 ms
Loss rate: 4.98%
-- Flow 1:
Average throughput: 335.27 Mbit/s
95th percentile per-packet one-way delay: 154.274 ms
Loss rate: 5.16%
-- Flow 2:
Average throughput: 3.96 Mbit/s
95th percentile per-packet one-way delay: 63.592 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 136.63 Mbit/s
95th percentile per-packet one-way delay: 64.147 ms
Loss rate: 3.89%
```

Run 1: Report of PCC — Data Link

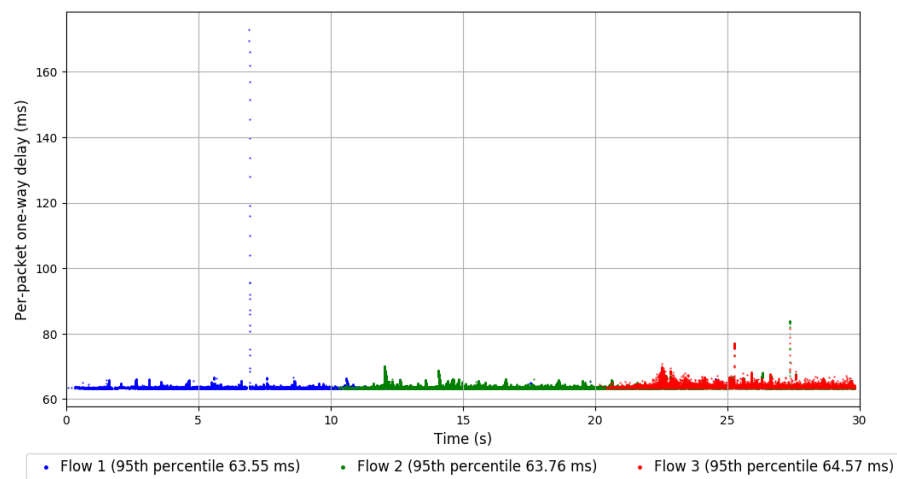
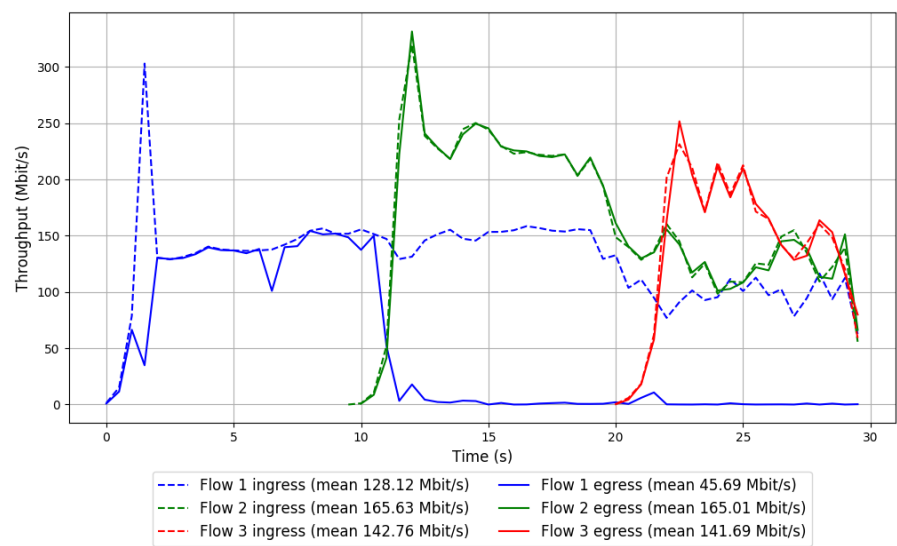


```
Run 2: Statistics of PCC

Start at: 2017-08-12 14:47:47
End at: 2017-08-12 14:48:17

# Below is generated by plot.py at 2017-08-12 17:50:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 201.27 Mbit/s
95th percentile per-packet one-way delay: 63.838 ms
Loss rate: 29.25%
-- Flow 1:
Average throughput: 45.69 Mbit/s
95th percentile per-packet one-way delay: 63.554 ms
Loss rate: 64.35%
-- Flow 2:
Average throughput: 165.01 Mbit/s
95th percentile per-packet one-way delay: 63.763 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 141.69 Mbit/s
95th percentile per-packet one-way delay: 64.568 ms
Loss rate: 0.75%
```

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-08-12 14:59:36

End at: 2017-08-12 15:00:06

Below is generated by plot.py at 2017-08-12 17:51:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 345.02 Mbit/s

95th percentile per-packet one-way delay: 65.815 ms

Loss rate: 5.15%

-- Flow 1:

Average throughput: 299.90 Mbit/s

95th percentile per-packet one-way delay: 66.364 ms

Loss rate: 5.83%

-- Flow 2:

Average throughput: 4.10 Mbit/s

95th percentile per-packet one-way delay: 63.661 ms

Loss rate: 3.97%

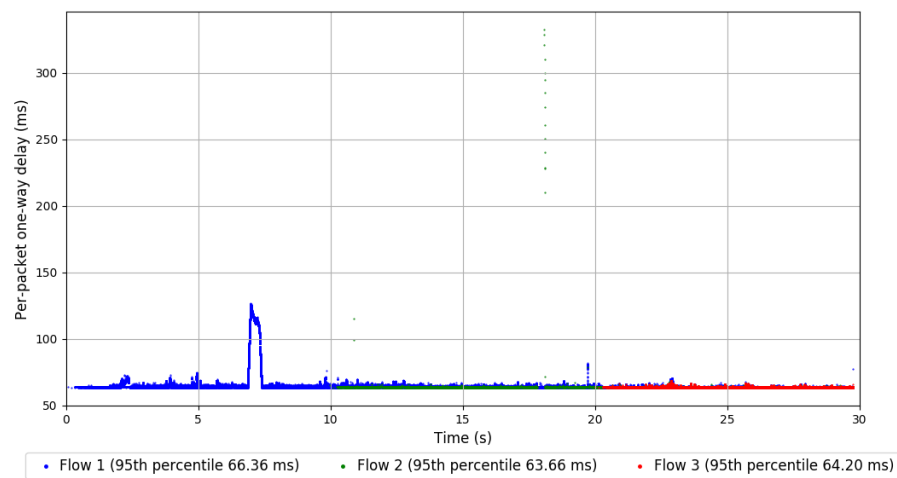
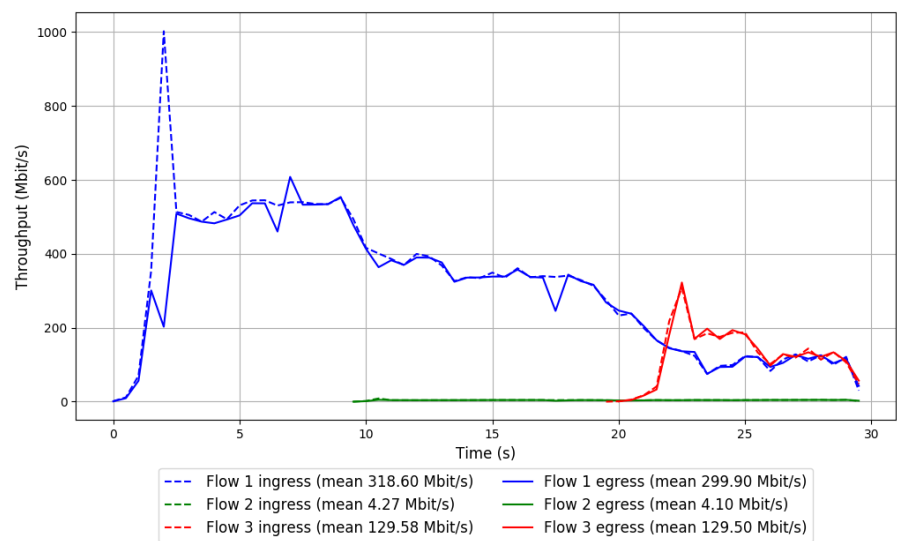
-- Flow 3:

Average throughput: 129.50 Mbit/s

95th percentile per-packet one-way delay: 64.199 ms

Loss rate: 0.15%

Run 3: Report of PCC — Data Link

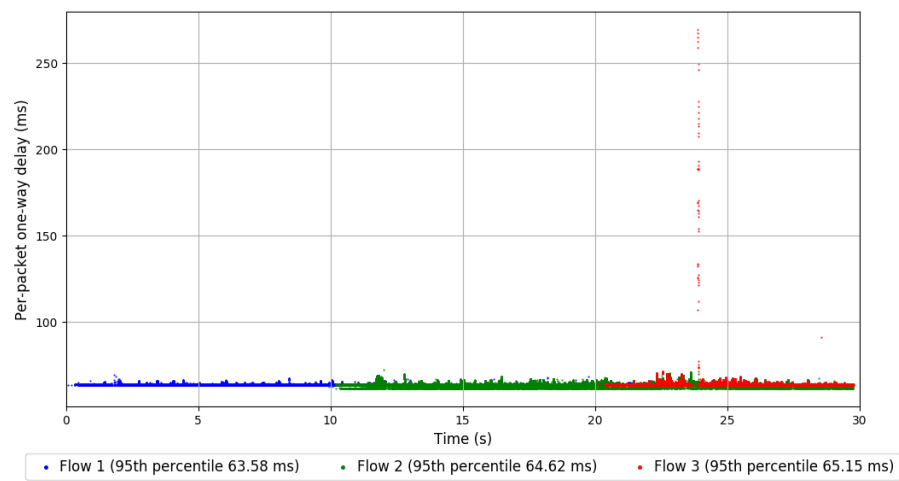
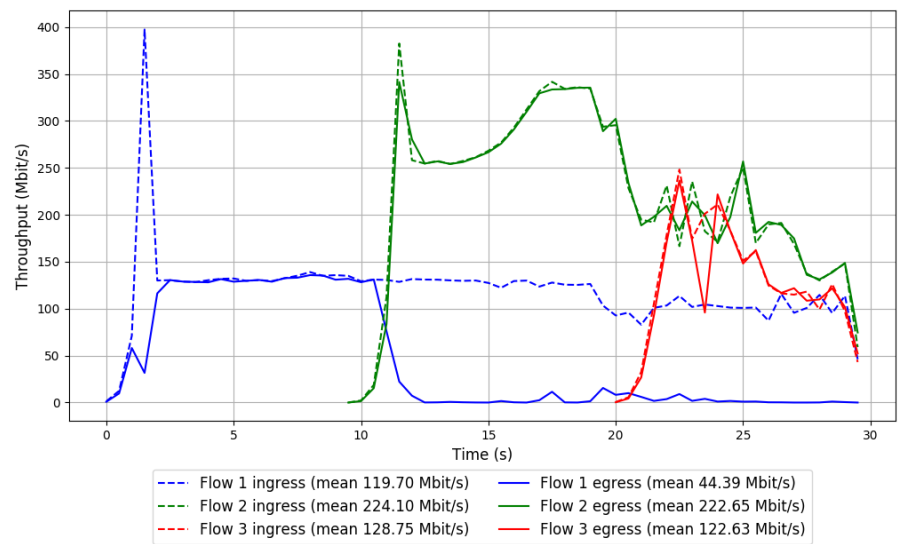


```
Run 4: Statistics of PCC

Start at: 2017-08-12 15:11:31
End at: 2017-08-12 15:12:01

# Below is generated by plot.py at 2017-08-12 17:51:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 232.82 Mbit/s
95th percentile per-packet one-way delay: 64.443 ms
Loss rate: 25.18%
-- Flow 1:
Average throughput: 44.39 Mbit/s
95th percentile per-packet one-way delay: 63.581 ms
Loss rate: 62.99%
-- Flow 2:
Average throughput: 222.65 Mbit/s
95th percentile per-packet one-way delay: 64.622 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 122.63 Mbit/s
95th percentile per-packet one-way delay: 65.149 ms
Loss rate: 4.76%
```


Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-08-12 15:23:23

End at: 2017-08-12 15:23:53

Below is generated by plot.py at 2017-08-12 17:52:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 344.44 Mbit/s

95th percentile per-packet one-way delay: 65.458 ms

Loss rate: 1.75%

-- Flow 1:

Average throughput: 182.98 Mbit/s

95th percentile per-packet one-way delay: 66.117 ms

Loss rate: 2.66%

-- Flow 2:

Average throughput: 174.90 Mbit/s

95th percentile per-packet one-way delay: 64.915 ms

Loss rate: 0.65%

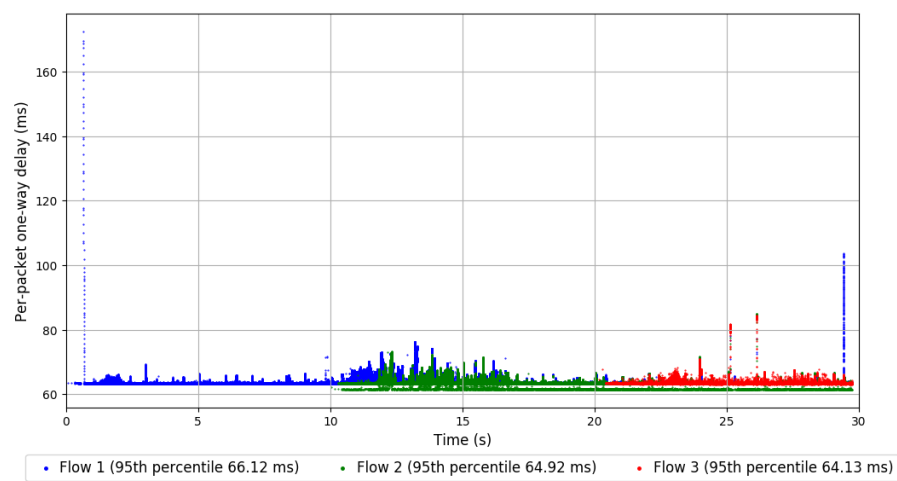
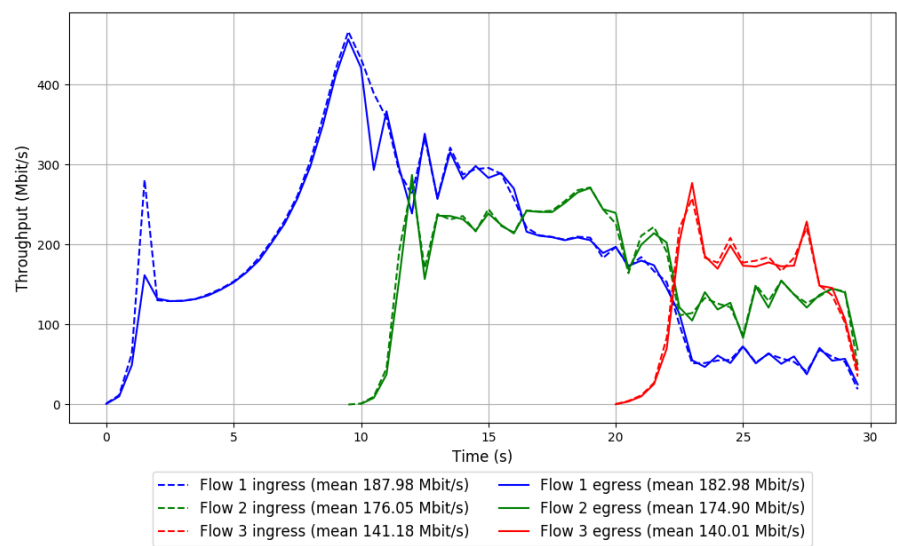
-- Flow 3:

Average throughput: 140.01 Mbit/s

95th percentile per-packet one-way delay: 64.133 ms

Loss rate: 0.84%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-08-12 15:35:05

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

Below is generated by plot.py at 2017-08-12 17:52:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 222.87 Mbit/s

95th percentile per-packet one-way delay: 66.289 ms

Loss rate: 30.10%

-- Flow 1:

Average throughput: 50.08 Mbit/s

95th percentile per-packet one-way delay: 63.452 ms

Loss rate: 64.65%

-- Flow 2:

Average throughput: 196.41 Mbit/s

95th percentile per-packet one-way delay: 67.111 ms

Loss rate: 1.93%

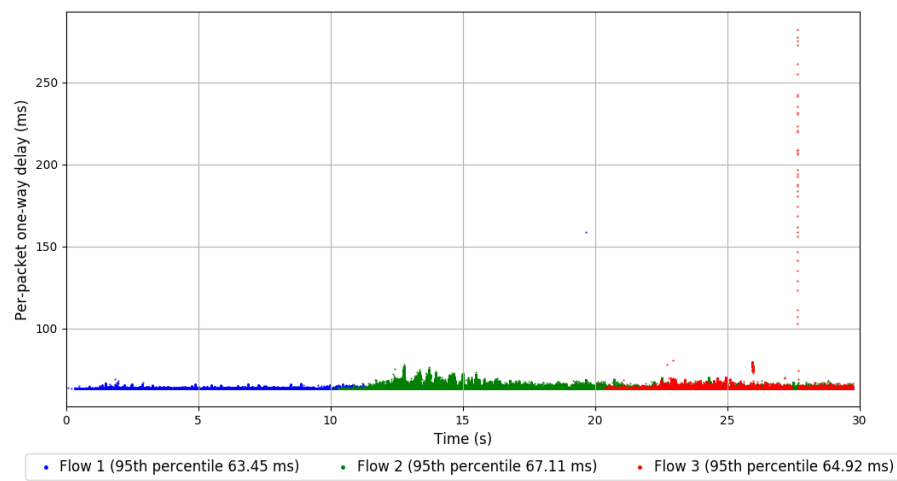
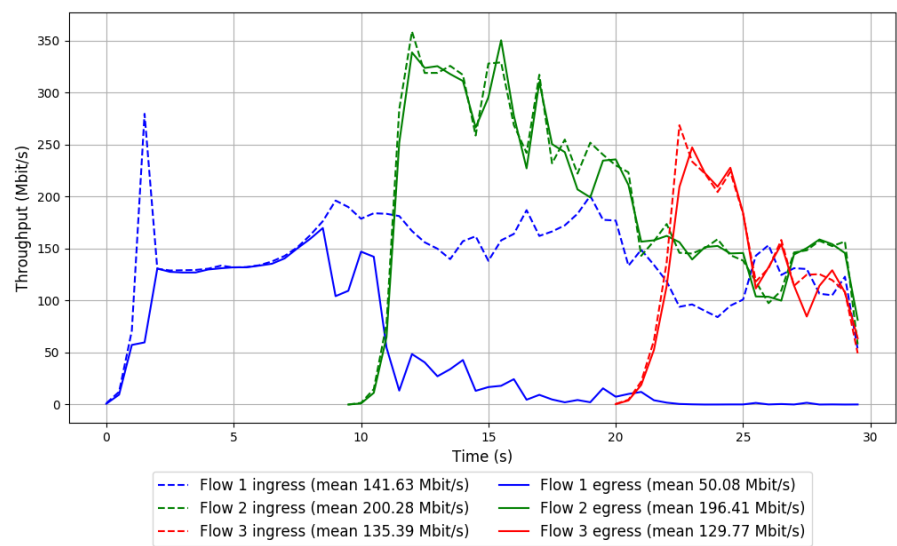
-- Flow 3:

Average throughput: 129.77 Mbit/s

95th percentile per-packet one-way delay: 64.919 ms

Loss rate: 4.18%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-08-12 15:46:44

End at: 2017-08-12 15:47:14

Below is generated by plot.py at 2017-08-12 17:52:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 145.76 Mbit/s

95th percentile per-packet one-way delay: 63.562 ms

Loss rate: 35.47%

-- Flow 1:

Average throughput: 48.07 Mbit/s

95th percentile per-packet one-way delay: 63.557 ms

Loss rate: 62.28%

-- Flow 2:

Average throughput: 146.34 Mbit/s

95th percentile per-packet one-way delay: 63.571 ms

Loss rate: 0.10%

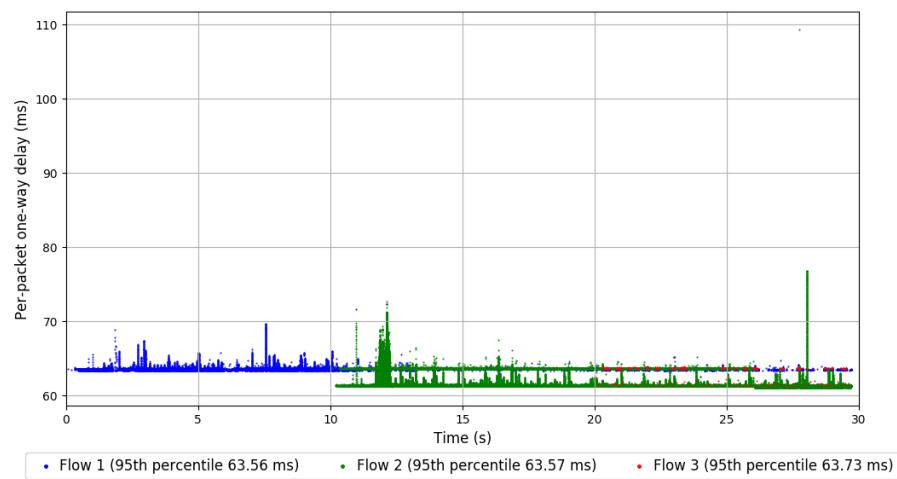
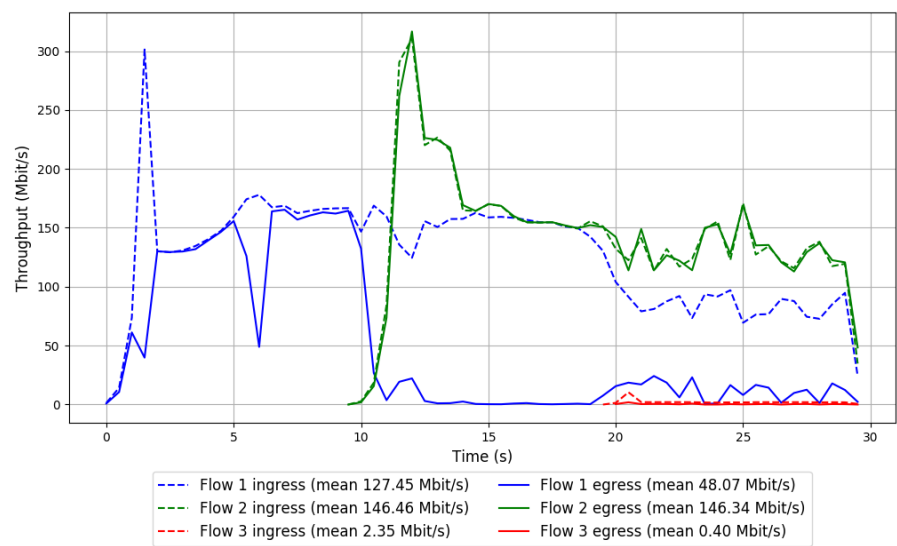
-- Flow 3:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 63.734 ms

Loss rate: 83.01%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-08-12 15:57:35

End at: 2017-08-12 15:58:05

Below is generated by plot.py at 2017-08-12 17:53:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 329.90 Mbit/s

95th percentile per-packet one-way delay: 65.479 ms

Loss rate: 6.61%

-- Flow 1:

Average throughput: 329.16 Mbit/s

95th percentile per-packet one-way delay: 65.483 ms

Loss rate: 6.34%

-- Flow 2:

Average throughput: 0.60 Mbit/s

95th percentile per-packet one-way delay: 63.941 ms

Loss rate: 67.72%

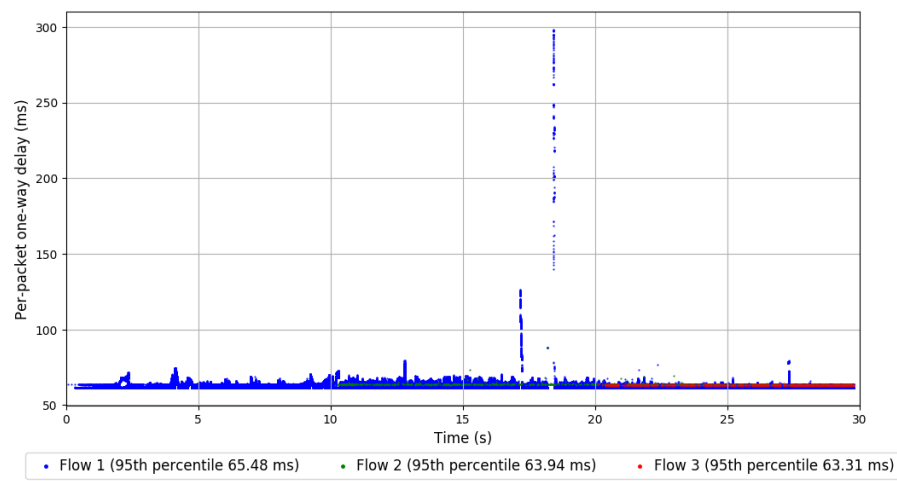
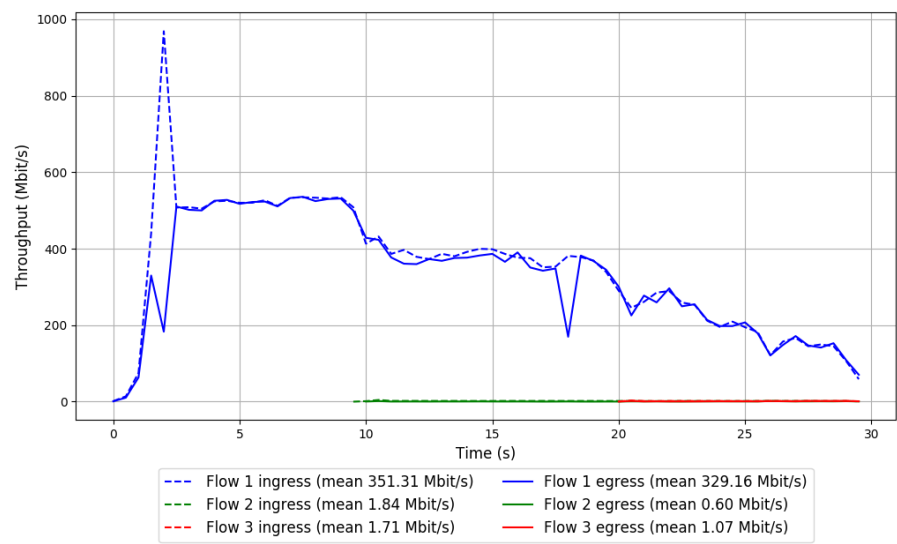
-- Flow 3:

Average throughput: 1.07 Mbit/s

95th percentile per-packet one-way delay: 63.315 ms

Loss rate: 37.82%

Run 8: Report of PCC — Data Link

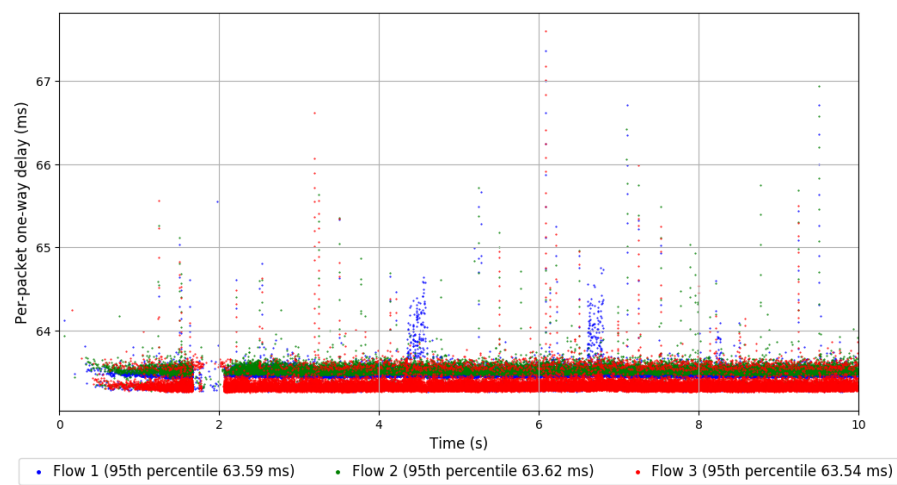
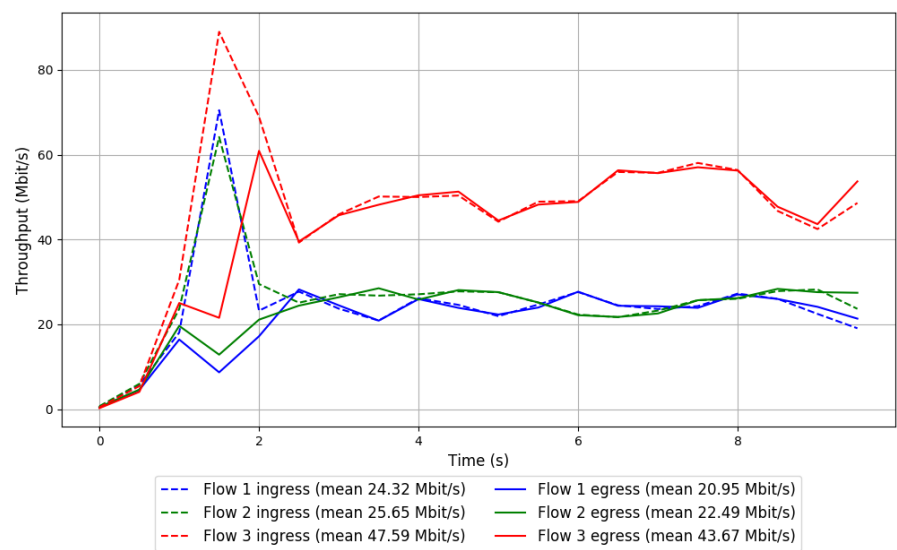


Run 9: Statistics of PCC

Start at: 2017-08-12 16:08:50

End at: 2017-08-12 16:09:20

Run 9: Report of PCC — Data Link

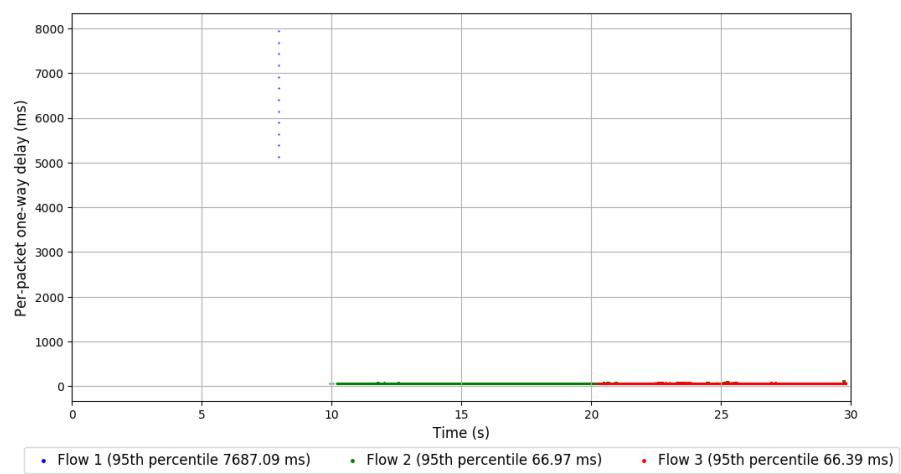
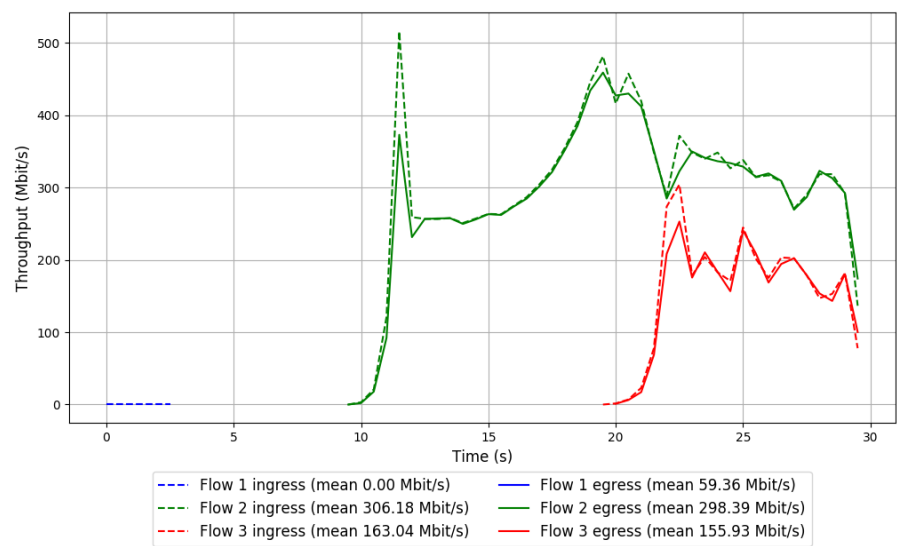


Run 10: Statistics of PCC

Start at: 2017-08-12 16:20:15

End at: 2017-08-12 16:20:45

Run 10: Report of PCC — Data Link

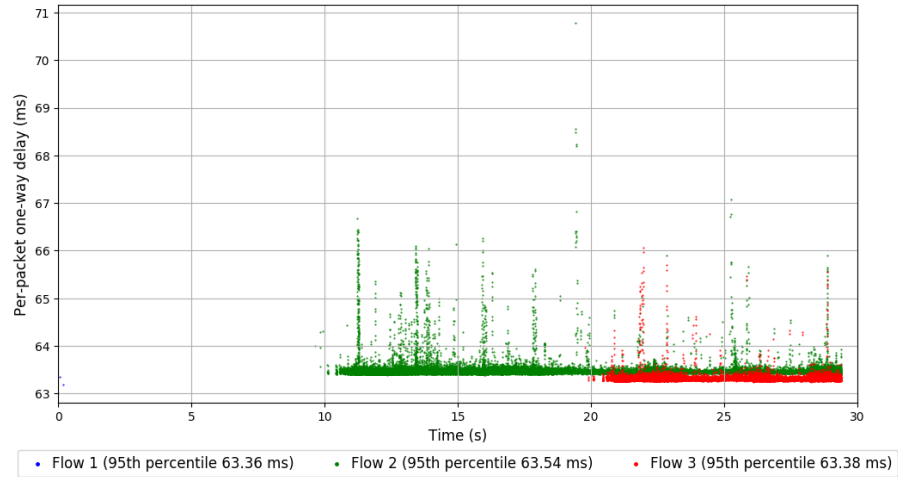
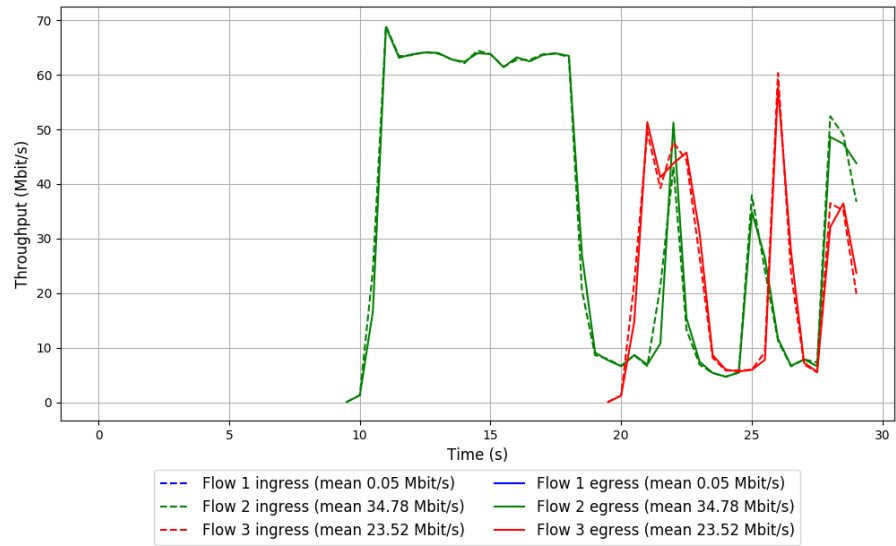


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-08-12 14:34:47
End at: 2017-08-12 14:35:17

# Below is generated by plot.py at 2017-08-12 17:53:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 31.13 Mbit/s
95th percentile per-packet one-way delay: 63.528 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 63.357 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 34.78 Mbit/s
95th percentile per-packet one-way delay: 63.543 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 23.52 Mbit/s
95th percentile per-packet one-way delay: 63.381 ms
Loss rate: 0.00%
```

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-08-12 14:46:23

End at: 2017-08-12 14:46:53

Below is generated by plot.py at 2017-08-12 17:53:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.67 Mbit/s

95th percentile per-packet one-way delay: 63.234 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 63.309 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 61.946 ms

Loss rate: 0.00%

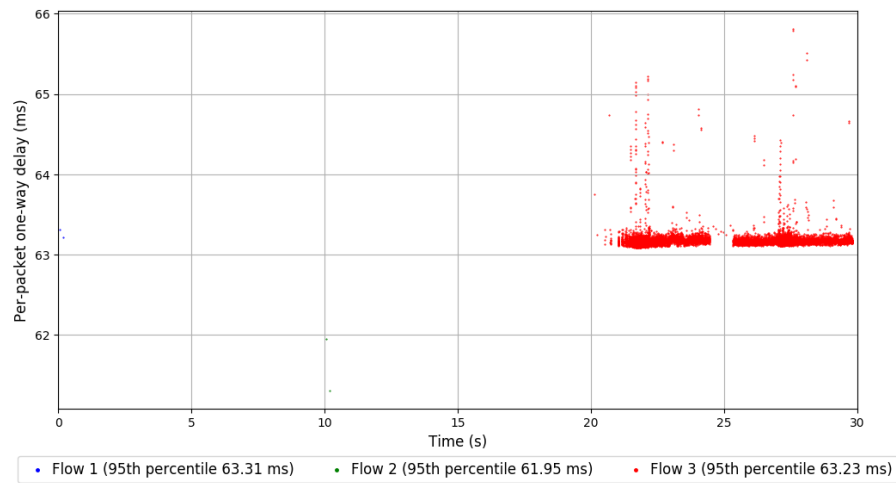
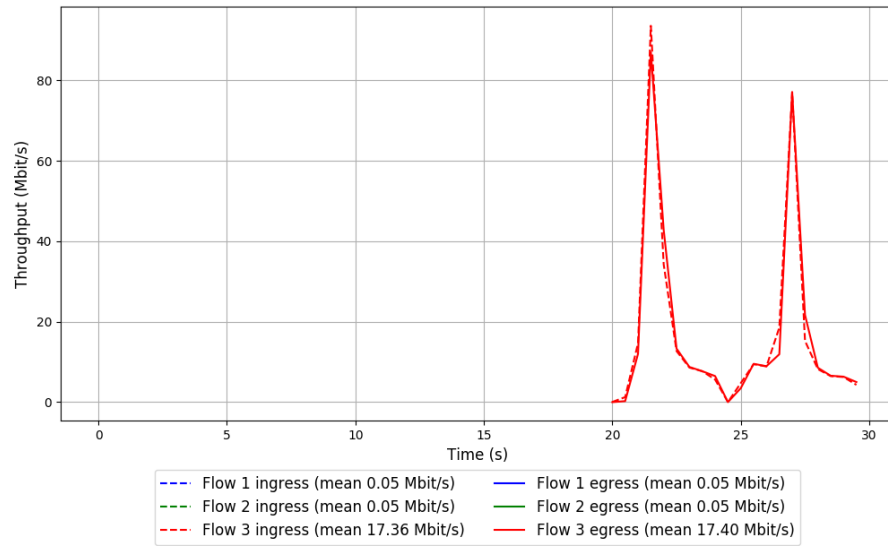
-- Flow 3:

Average throughput: 17.40 Mbit/s

95th percentile per-packet one-way delay: 63.234 ms

Loss rate: 0.01%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-08-12 14:58:10

End at: 2017-08-12 14:58:40

Below is generated by plot.py at 2017-08-12 17:53:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 33.75 Mbit/s

95th percentile per-packet one-way delay: 63.465 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 63.502 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 38.02 Mbit/s

95th percentile per-packet one-way delay: 63.229 ms

Loss rate: 0.00%

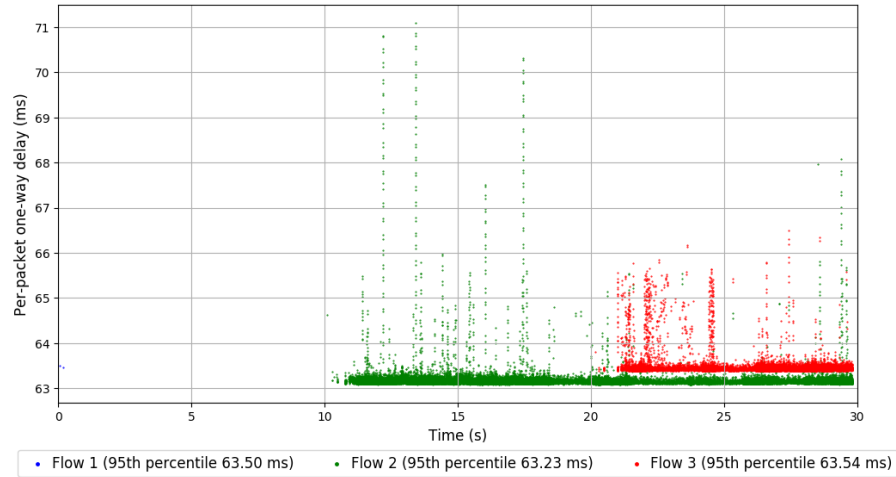
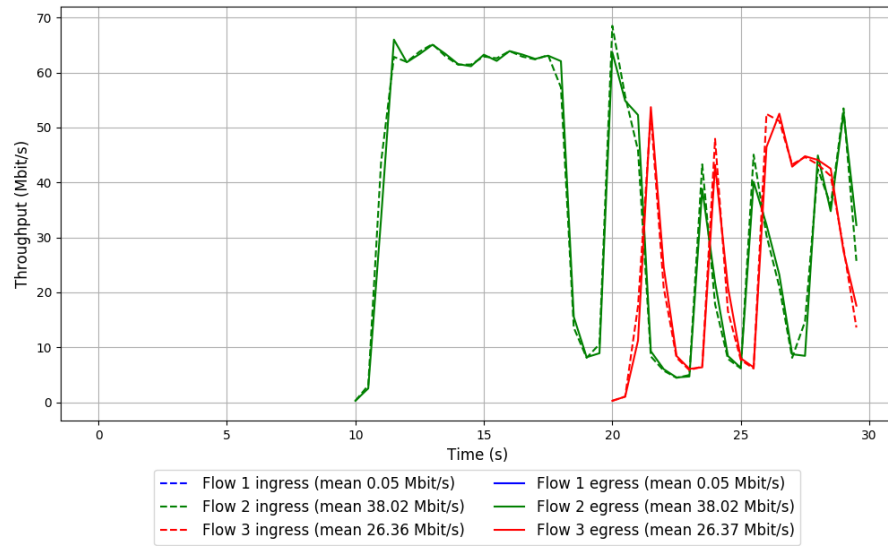
-- Flow 3:

Average throughput: 26.37 Mbit/s

95th percentile per-packet one-way delay: 63.540 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-08-12 15:10:06

End at: 2017-08-12 15:10:36

Below is generated by plot.py at 2017-08-12 17:53:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 30.14 Mbit/s

95th percentile per-packet one-way delay: 63.279 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 63.645 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 33.83 Mbit/s

95th percentile per-packet one-way delay: 63.281 ms

Loss rate: 0.00%

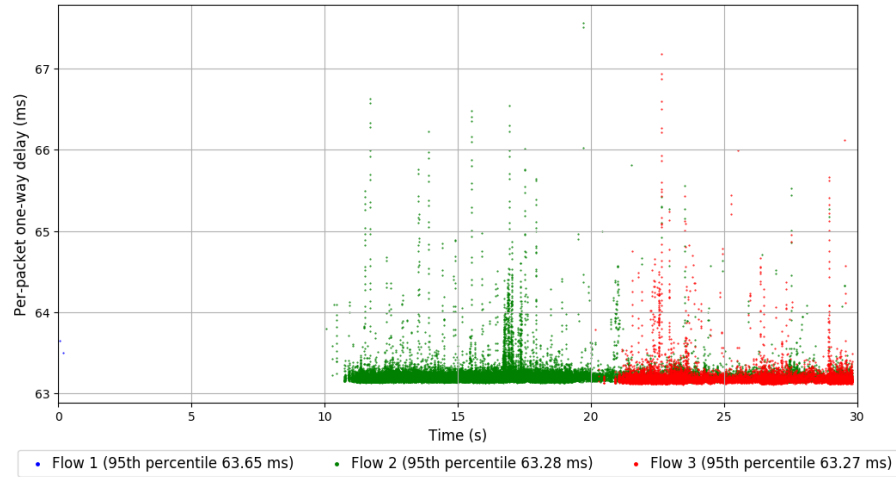
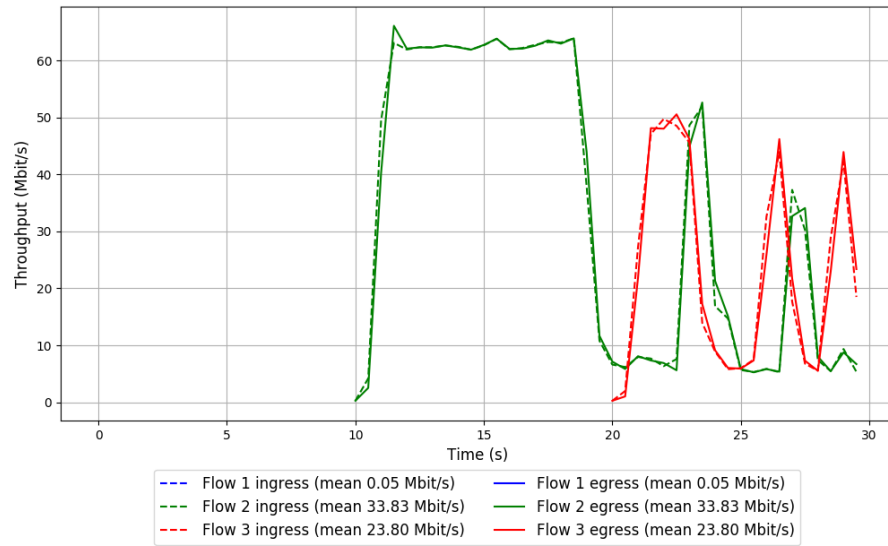
-- Flow 3:

Average throughput: 23.80 Mbit/s

95th percentile per-packet one-way delay: 63.267 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-08-12 15:21:57

End at: 2017-08-12 15:22:27

Below is generated by plot.py at 2017-08-12 17:54:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 36.53 Mbit/s

95th percentile per-packet one-way delay: 63.441 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 63.799 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 35.50 Mbit/s

95th percentile per-packet one-way delay: 61.666 ms

Loss rate: 0.00%

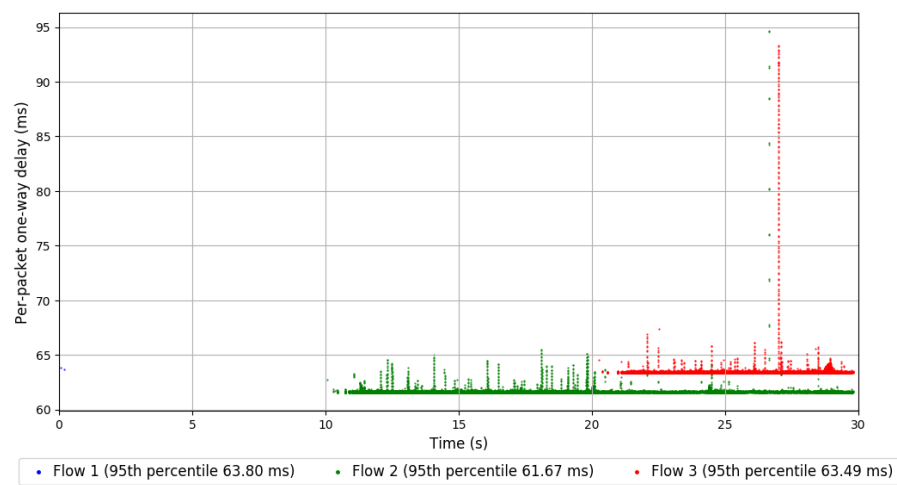
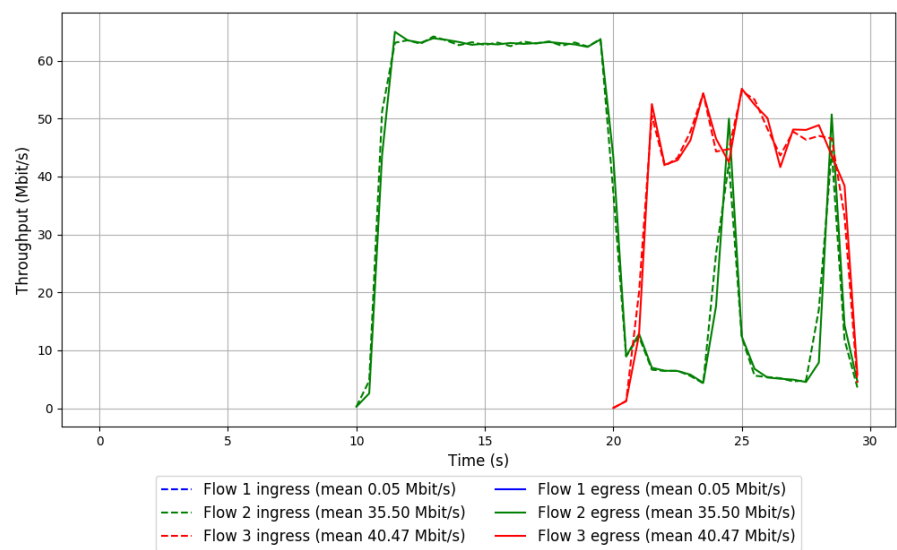
-- Flow 3:

Average throughput: 40.47 Mbit/s

95th percentile per-packet one-way delay: 63.486 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-08-12 15:33:38

End at: 2017-08-12 15:34:08

Below is generated by plot.py at 2017-08-12 17:54:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 32.74 Mbit/s

95th percentile per-packet one-way delay: 63.245 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 63.762 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 35.89 Mbit/s

95th percentile per-packet one-way delay: 63.241 ms

Loss rate: 0.00%

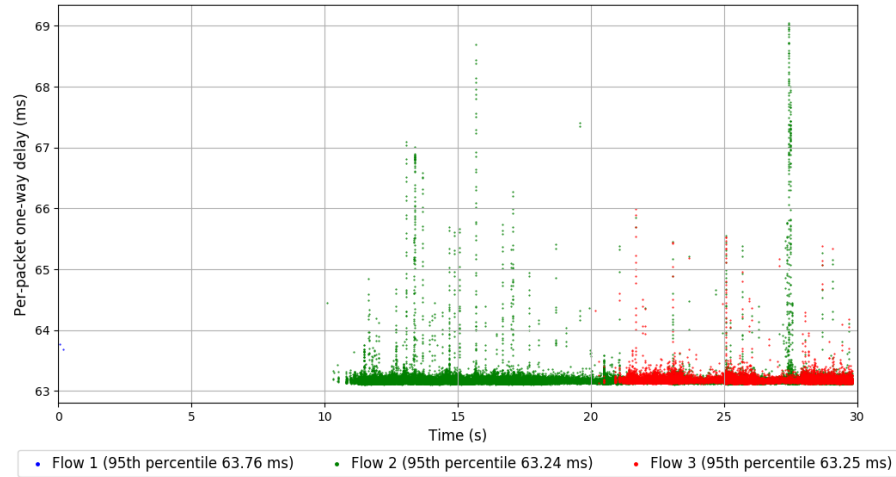
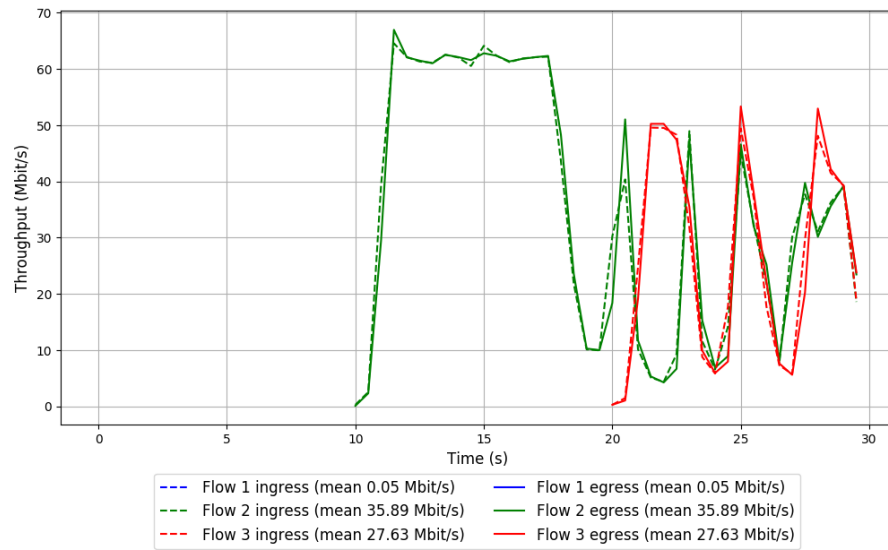
-- Flow 3:

Average throughput: 27.63 Mbit/s

95th percentile per-packet one-way delay: 63.254 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-08-12 15:45:18

End at: 2017-08-12 15:45:48

Below is generated by plot.py at 2017-08-12 17:54:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 37.21 Mbit/s

95th percentile per-packet one-way delay: 63.161 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 63.258 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 42.54 Mbit/s

95th percentile per-packet one-way delay: 62.002 ms

Loss rate: 0.00%

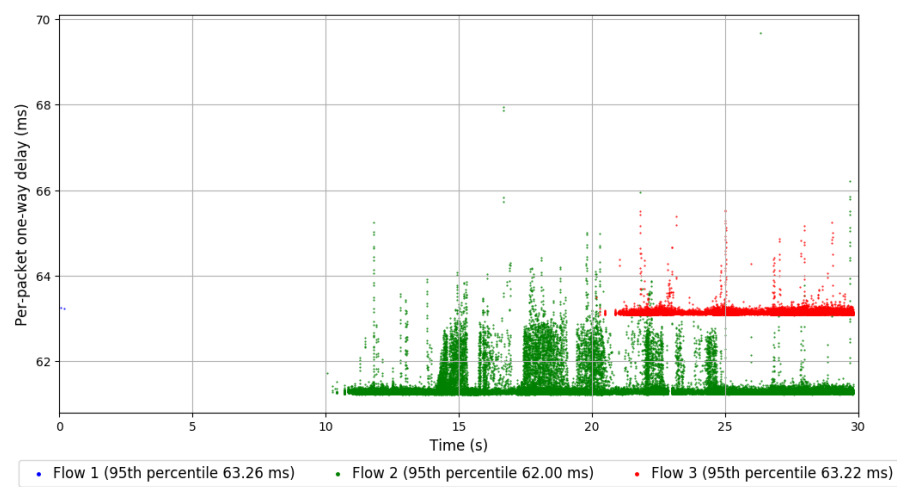
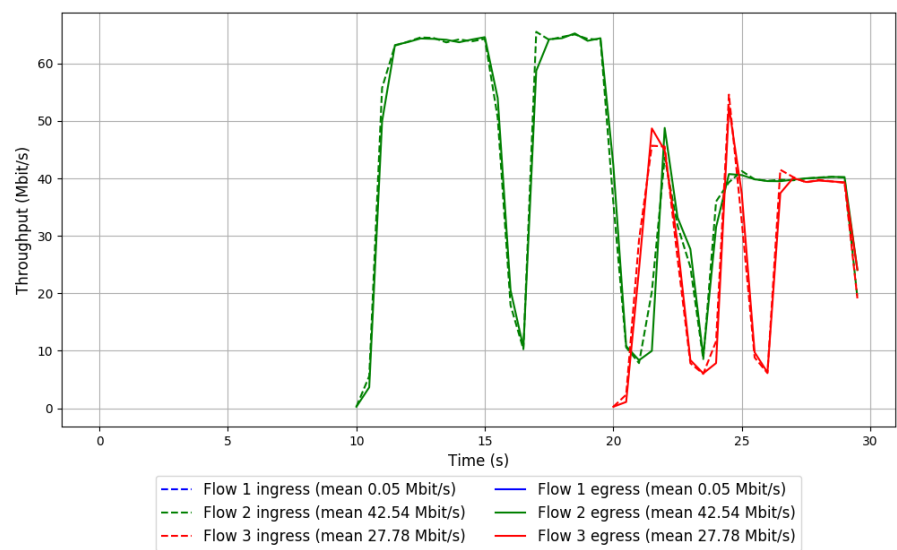
-- Flow 3:

Average throughput: 27.78 Mbit/s

95th percentile per-packet one-way delay: 63.215 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-08-12 15:56:10

End at: 2017-08-12 15:56:40

Below is generated by plot.py at 2017-08-12 17:54:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 36.32 Mbit/s

95th percentile per-packet one-way delay: 63.453 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 61.589 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 37.17 Mbit/s

95th percentile per-packet one-way delay: 61.634 ms

Loss rate: 0.00%

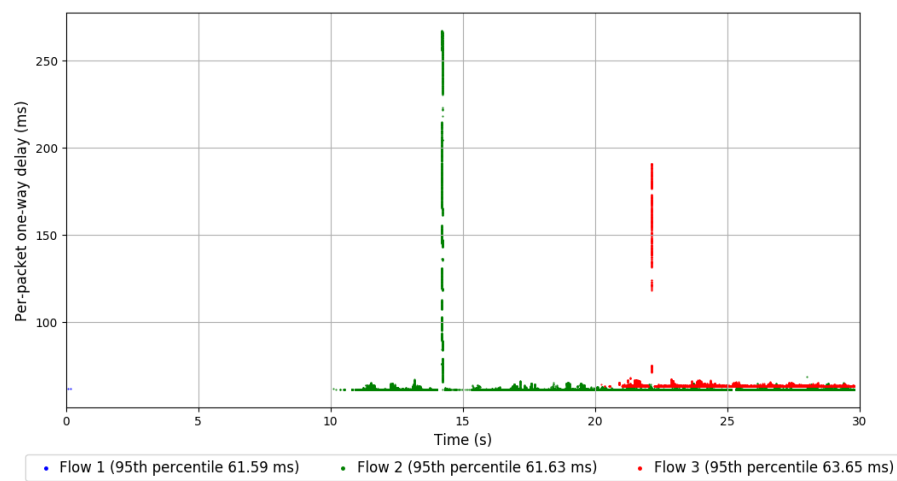
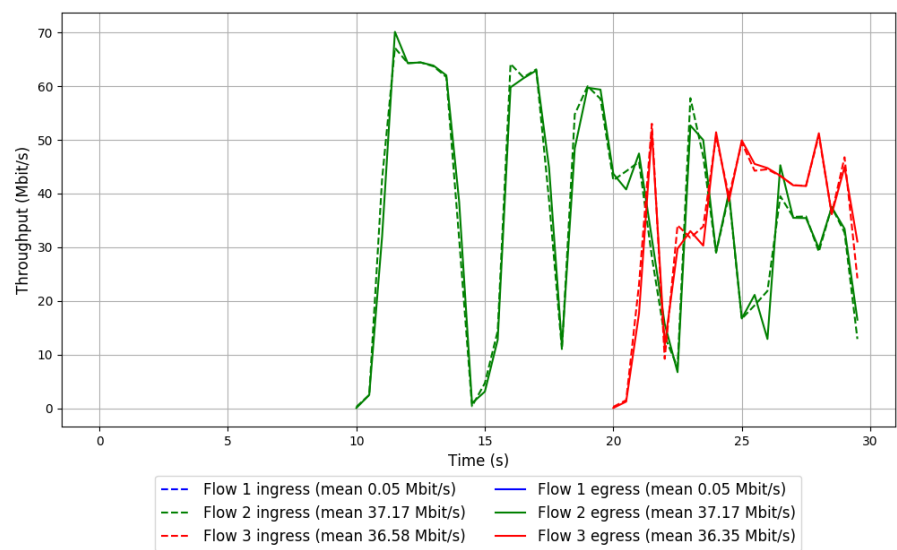
-- Flow 3:

Average throughput: 36.35 Mbit/s

95th percentile per-packet one-way delay: 63.649 ms

Loss rate: 0.62%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-08-12 16:07:24

End at: 2017-08-12 16:07:54

Below is generated by plot.py at 2017-08-12 17:54:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 34.33 Mbit/s

95th percentile per-packet one-way delay: 63.647 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 63.609 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 37.31 Mbit/s

95th percentile per-packet one-way delay: 63.463 ms

Loss rate: 0.44%

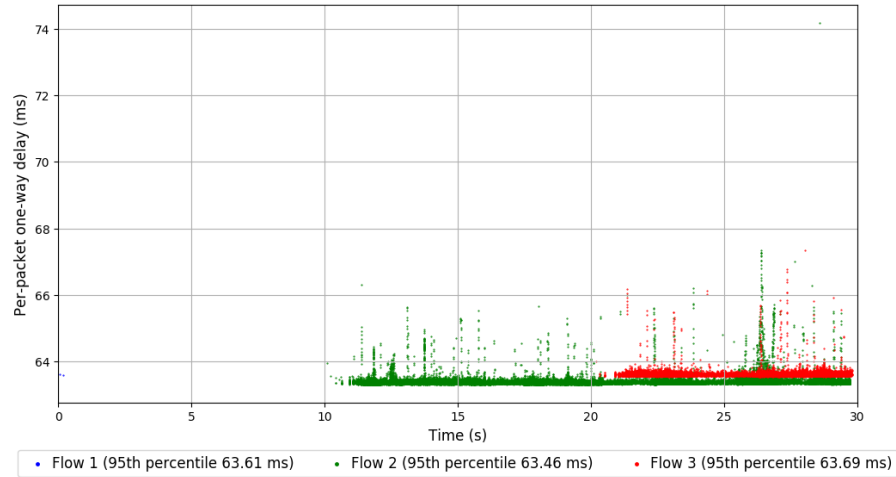
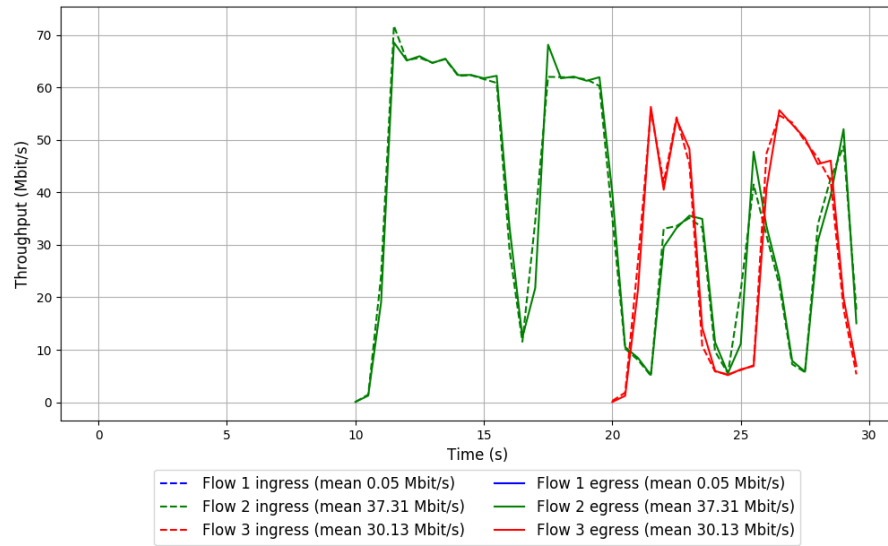
-- Flow 3:

Average throughput: 30.13 Mbit/s

95th percentile per-packet one-way delay: 63.690 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-08-12 16:18:49

End at: 2017-08-12 16:19:19

Below is generated by plot.py at 2017-08-12 17:54:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 34.08 Mbit/s

95th percentile per-packet one-way delay: 63.217 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 61.700 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 39.69 Mbit/s

95th percentile per-packet one-way delay: 61.512 ms

Loss rate: 0.01%

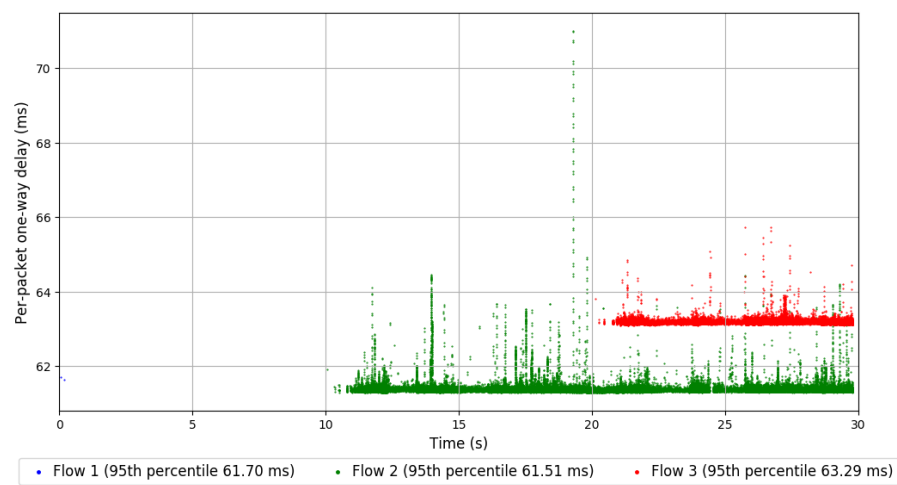
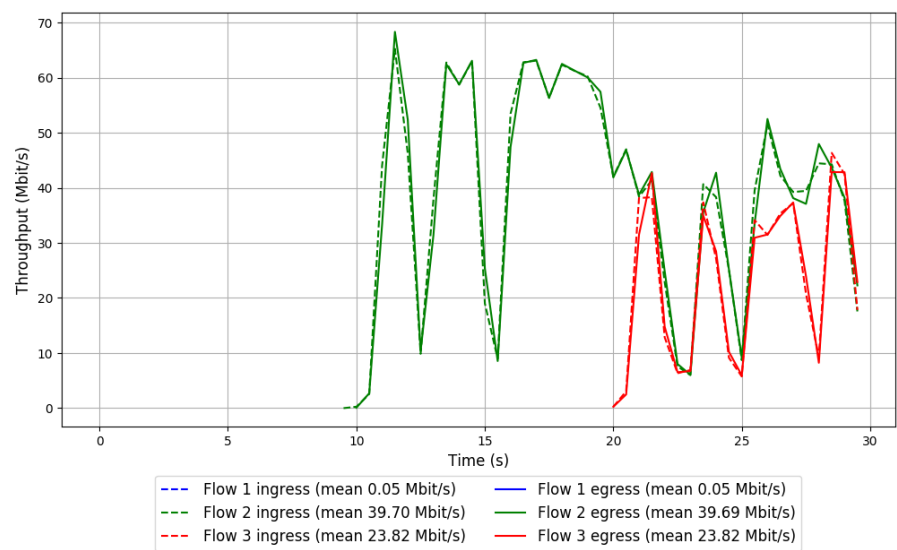
-- Flow 3:

Average throughput: 23.82 Mbit/s

95th percentile per-packet one-way delay: 63.293 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link



Run 1: Statistics of Saturator

Start at: 2017-08-12 14:33:22

End at: 2017-08-12 14:33:52

Below is generated by plot.py at 2017-08-12 17:54:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.17 Mbit/s

95th percentile per-packet one-way delay: 64.462 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 16.09 Mbit/s

95th percentile per-packet one-way delay: 65.444 ms

Loss rate: 9.28%

-- Flow 2:

Average throughput: 18.85 Mbit/s

95th percentile per-packet one-way delay: 64.307 ms

Loss rate: 0.29%

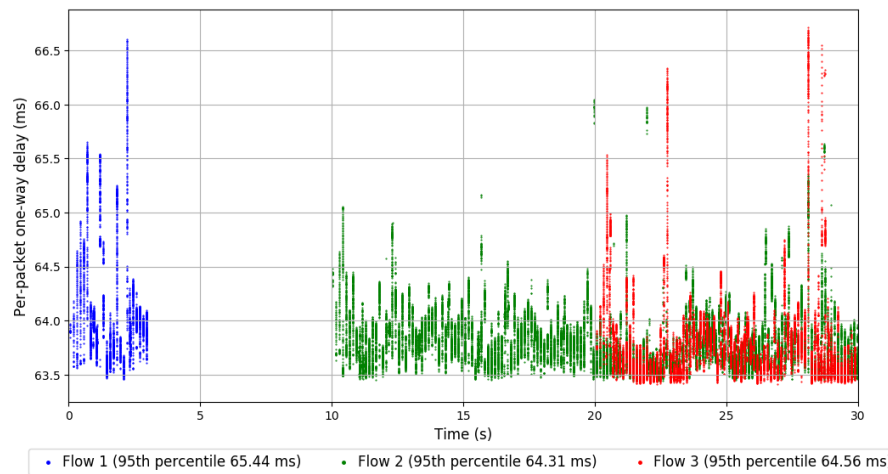
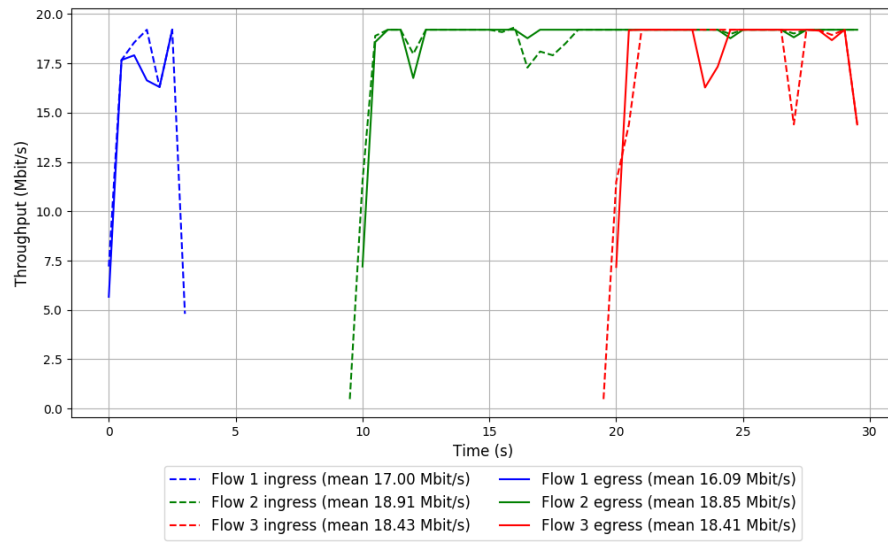
-- Flow 3:

Average throughput: 18.41 Mbit/s

95th percentile per-packet one-way delay: 64.561 ms

Loss rate: 0.09%

Run 1: Report of Saturator — Data Link



Run 2: Statistics of Saturator

Start at: 2017-08-12 14:44:59

End at: 2017-08-12 14:45:29

Below is generated by plot.py at 2017-08-12 17:54:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 24.83 Mbit/s

95th percentile per-packet one-way delay: 64.233 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 18.75 Mbit/s

95th percentile per-packet one-way delay: 64.320 ms

Loss rate: 1.27%

-- Flow 2:

Average throughput: 18.84 Mbit/s

95th percentile per-packet one-way delay: 64.141 ms

Loss rate: 0.03%

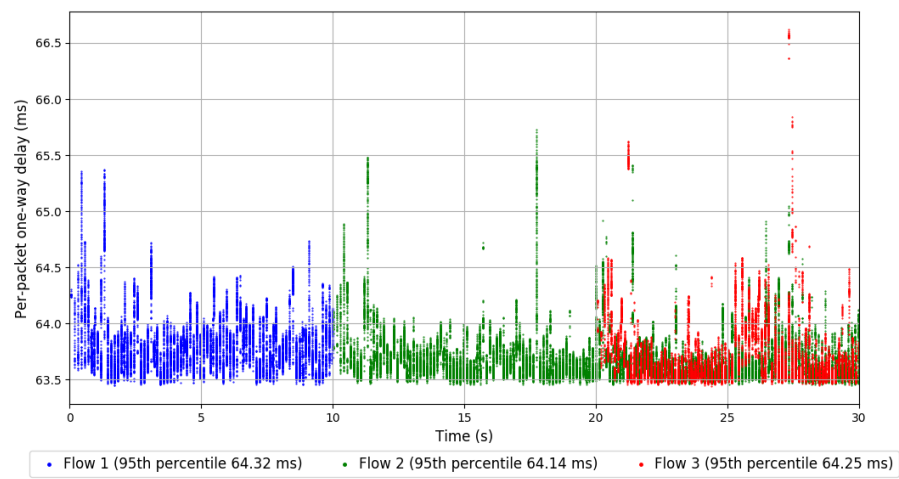
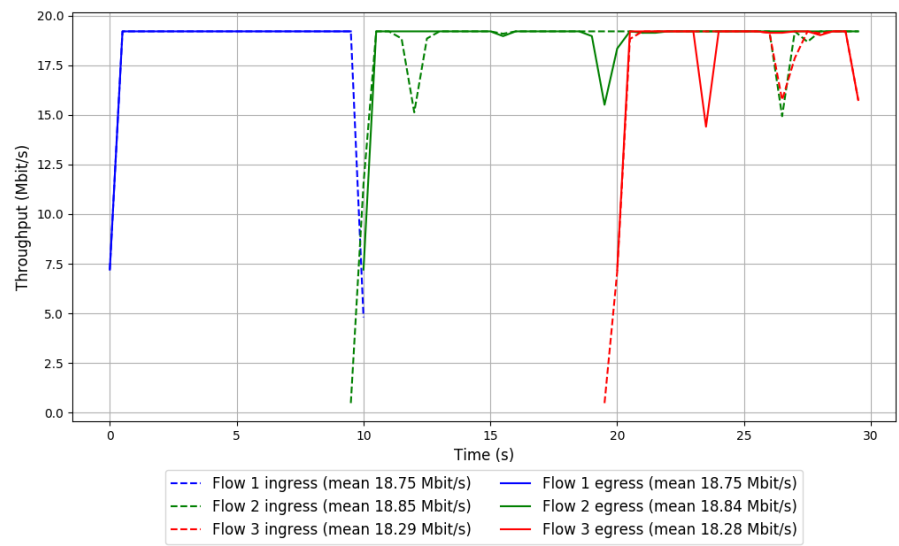
-- Flow 3:

Average throughput: 18.28 Mbit/s

95th percentile per-packet one-way delay: 64.255 ms

Loss rate: 0.05%

Run 2: Report of Saturator — Data Link



Run 3: Statistics of Saturator

Start at: 2017-08-12 14:56:44

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

Below is generated by plot.py at 2017-08-12 17:54:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 24.72 Mbit/s

95th percentile per-packet one-way delay: 64.058 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 18.63 Mbit/s

95th percentile per-packet one-way delay: 64.012 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 5.58 Mbit/s

95th percentile per-packet one-way delay: 63.954 ms

Loss rate: 57.14%

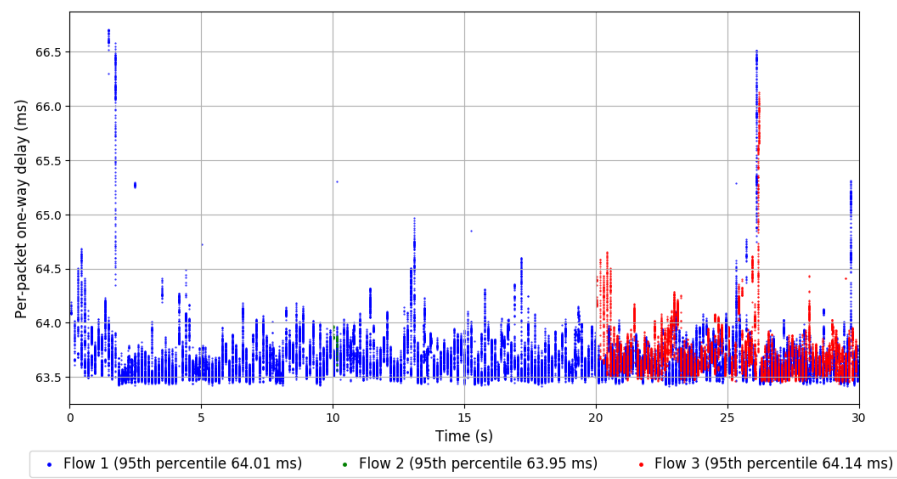
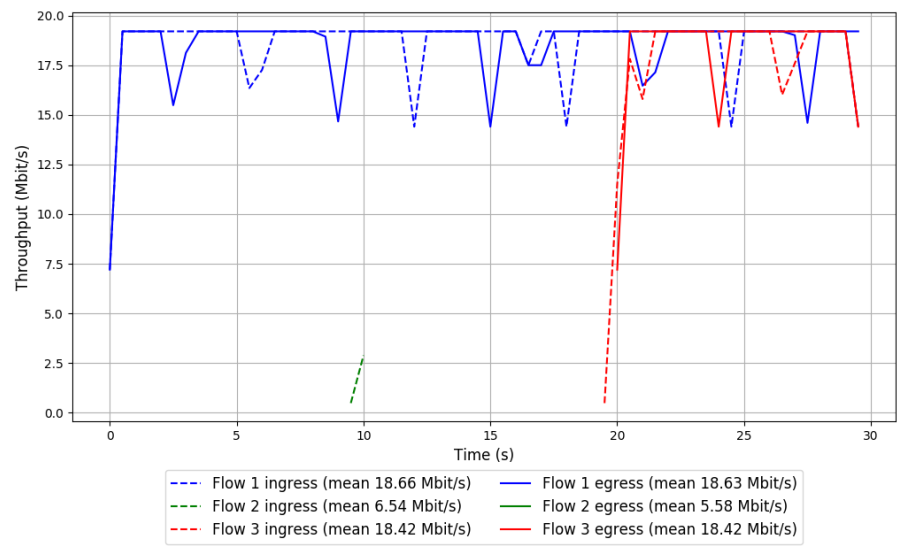
-- Flow 3:

Average throughput: 18.42 Mbit/s

95th percentile per-packet one-way delay: 64.135 ms

Loss rate: 0.00%

Run 3: Report of Saturator — Data Link

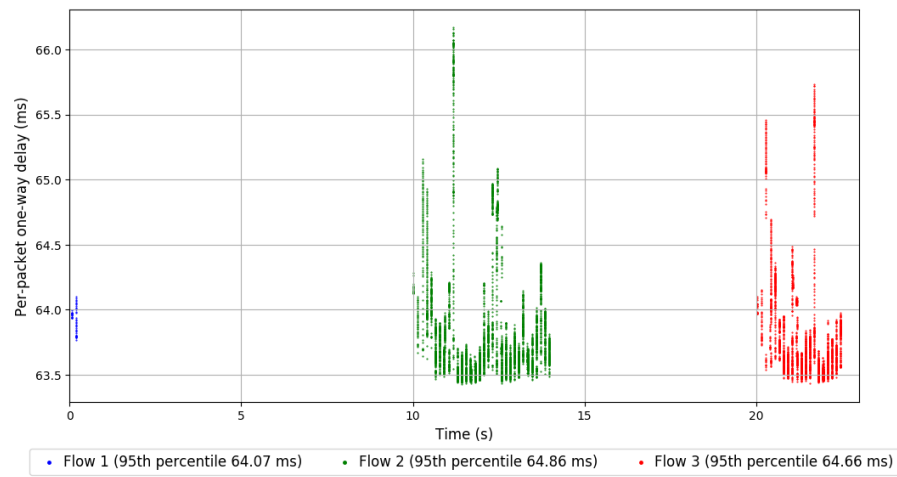
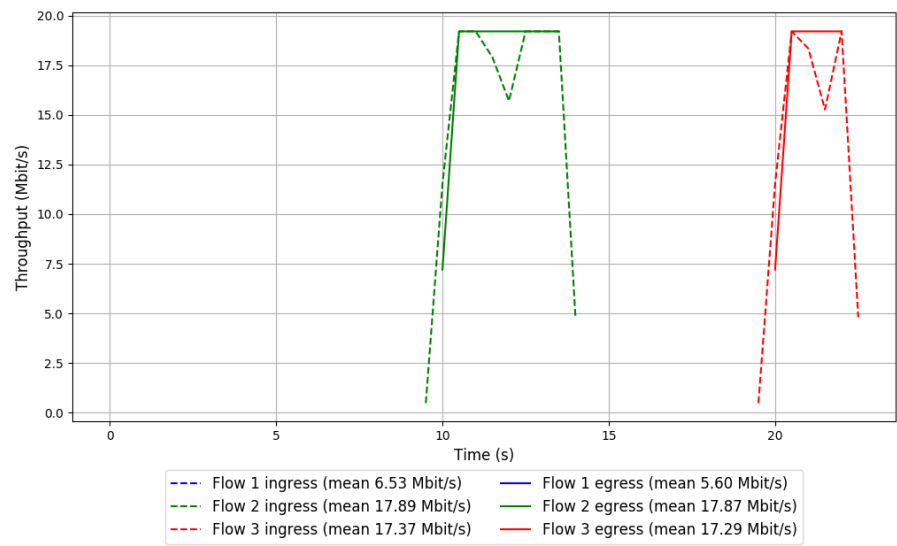


Run 4: Statistics of Saturator

Start at: 2017-08-12 15:08:40

End at: 2017-08-12 15:09:10

Run 4: Report of Saturator — Data Link

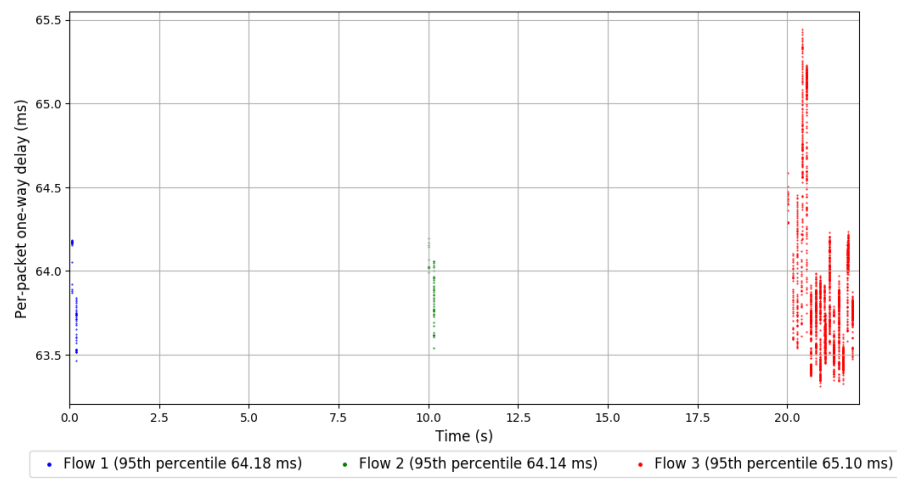
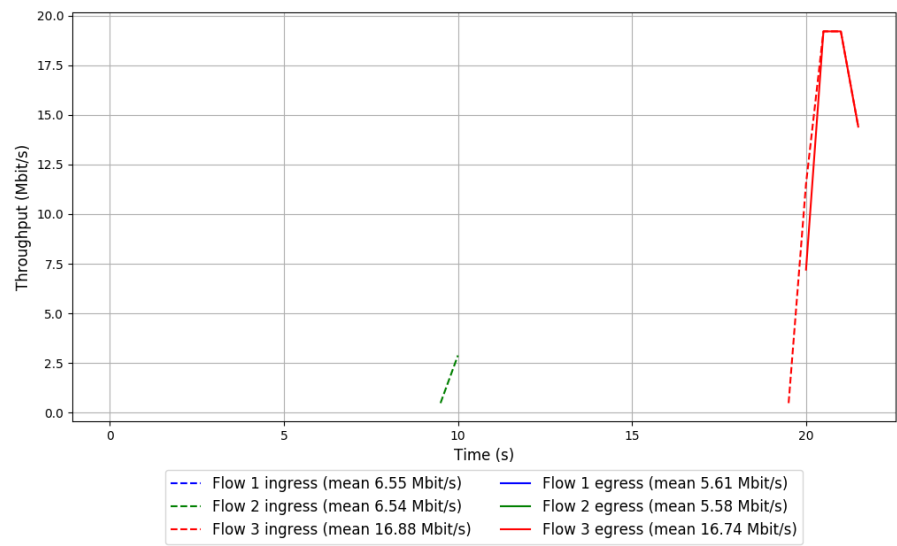


Run 5: Statistics of Saturator

Start at: 2017-08-12 15:20:32

End at: 2017-08-12 15:21:02

Run 5: Report of Saturator — Data Link



Run 6: Statistics of Saturator

Start at: 2017-08-12 15:32:11

End at: 2017-08-12 15:32:41

Below is generated by plot.py at 2017-08-12 17:54:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 36.92 Mbit/s

95th percentile per-packet one-way delay: 64.009 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 18.60 Mbit/s

95th percentile per-packet one-way delay: 63.877 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 18.48 Mbit/s

95th percentile per-packet one-way delay: 64.073 ms

Loss rate: 0.28%

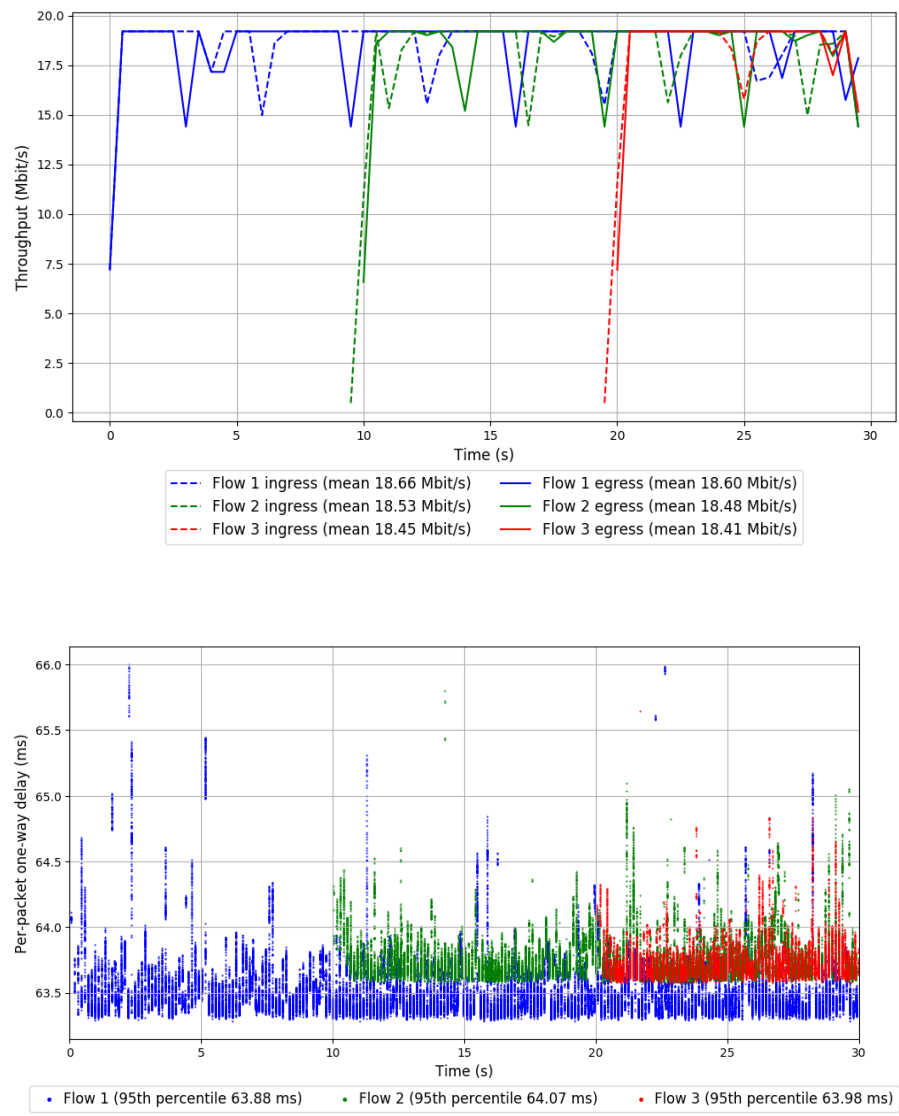
-- Flow 3:

Average throughput: 18.41 Mbit/s

95th percentile per-packet one-way delay: 63.983 ms

Loss rate: 0.31%

Run 6: Report of Saturator — Data Link



Run 7: Statistics of Saturator

Start at: 2017-08-12 15:43:56

End at: 2017-08-12 15:44:26

Below is generated by plot.py at 2017-08-12 17:54:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.85 Mbit/s

95th percentile per-packet one-way delay: 61.945 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 5.61 Mbit/s

95th percentile per-packet one-way delay: 64.196 ms

Loss rate: 57.14%

-- Flow 2:

Average throughput: 19.23 Mbit/s

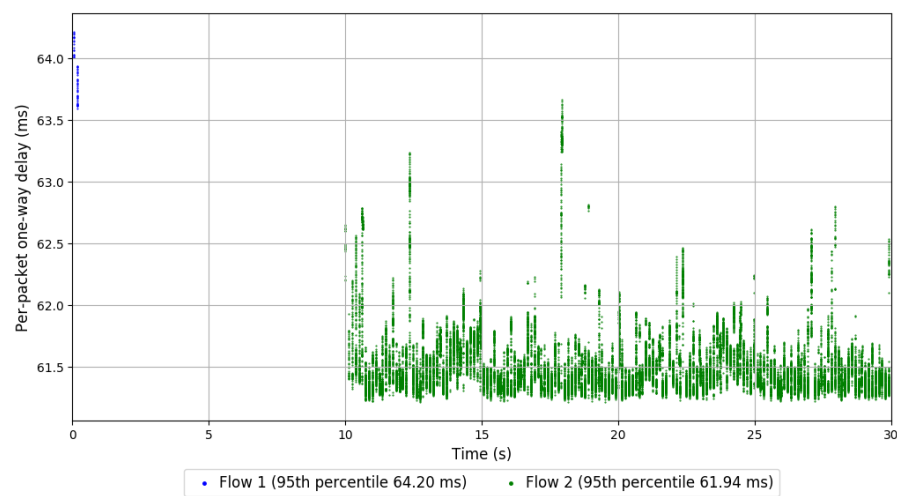
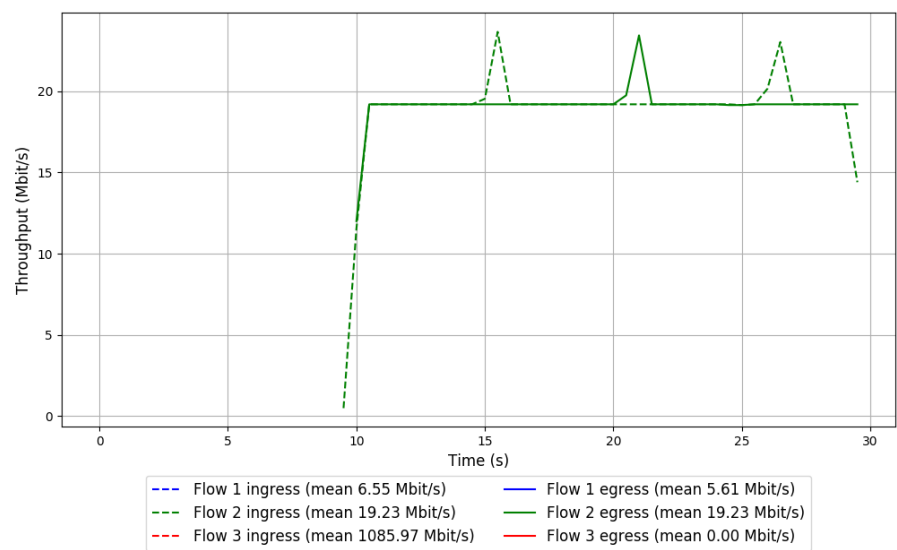
95th percentile per-packet one-way delay: 61.939 ms

Loss rate: 0.01%

-- Flow 3:

Average throughput: 0.00 Mbit/s

Run 7: Report of Saturator — Data Link

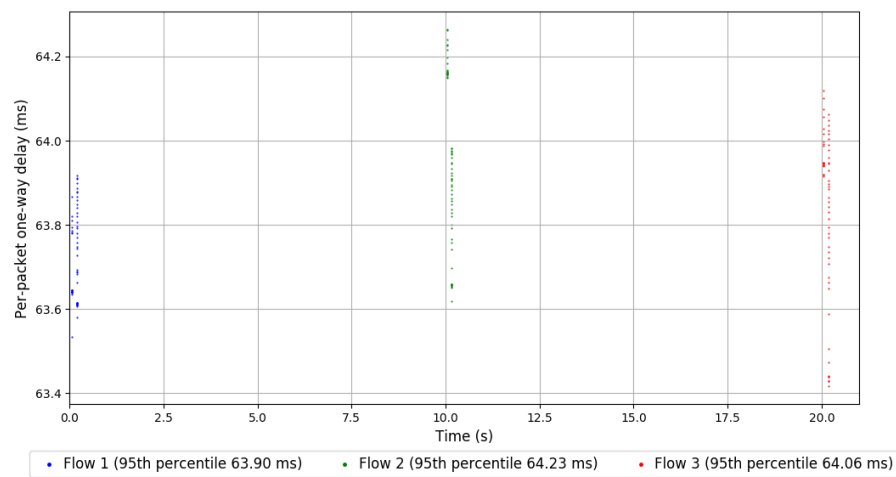
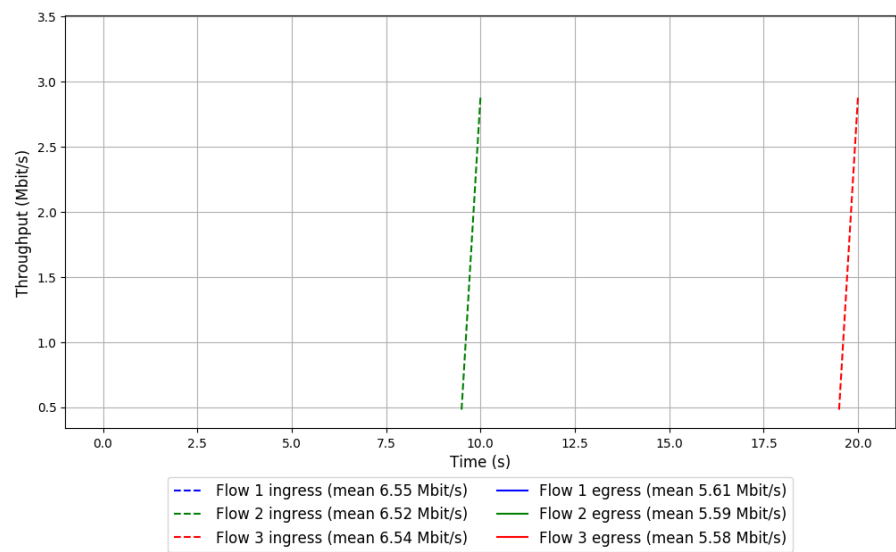


Run 8: Statistics of Saturator

Start at: 2017-08-12 15:54:48

End at: 2017-08-12 15:55:18

Run 8: Report of Saturator — Data Link

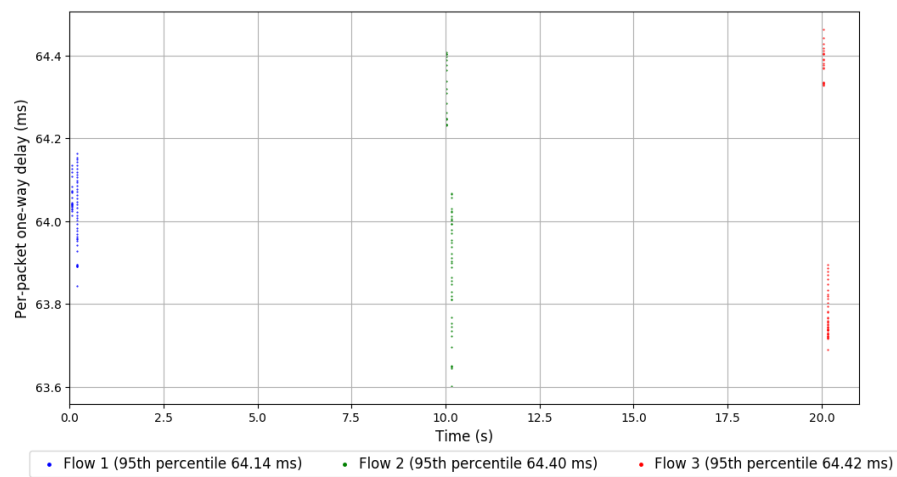
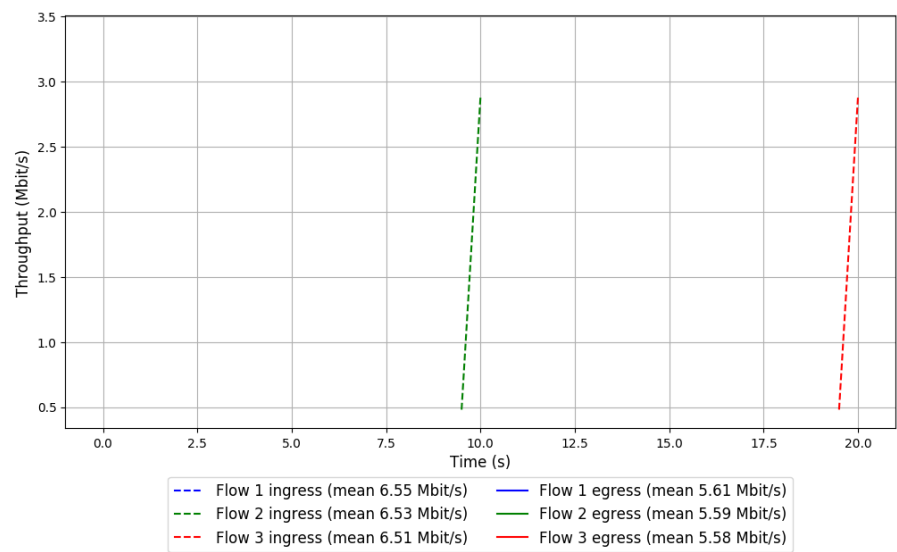


Run 9: Statistics of Saturator

Start at: 2017-08-12 16:06:02

End at: 2017-08-12 16:06:32

Run 9: Report of Saturator — Data Link



Run 10: Statistics of Saturator

Start at: 2017-08-12 16:17:25

End at: 2017-08-12 16:17:55

Below is generated by plot.py at 2017-08-12 17:54:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.91 Mbit/s

95th percentile per-packet one-way delay: 64.122 ms

Loss rate: 1.46%

-- Flow 1:

Average throughput: 11.66 Mbit/s

95th percentile per-packet one-way delay: 64.784 ms

Loss rate: 28.57%

-- Flow 2:

Average throughput: 18.61 Mbit/s

95th percentile per-packet one-way delay: 63.993 ms

Loss rate: 0.69%

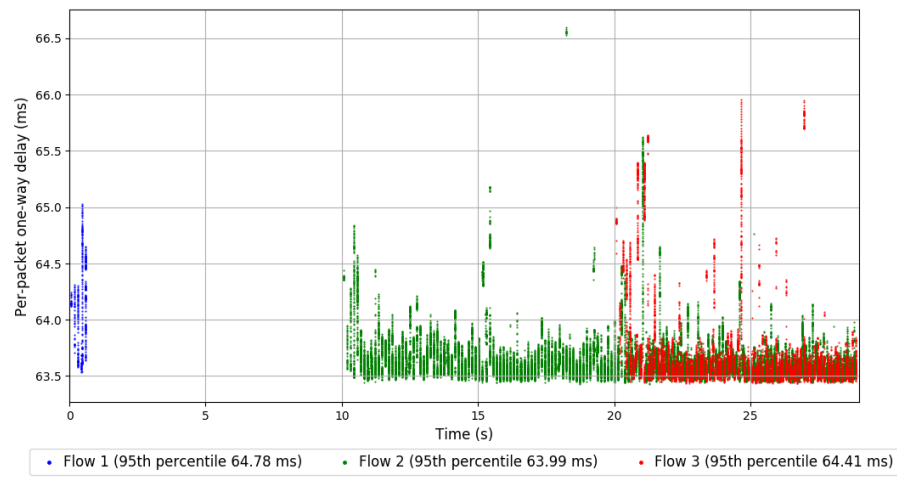
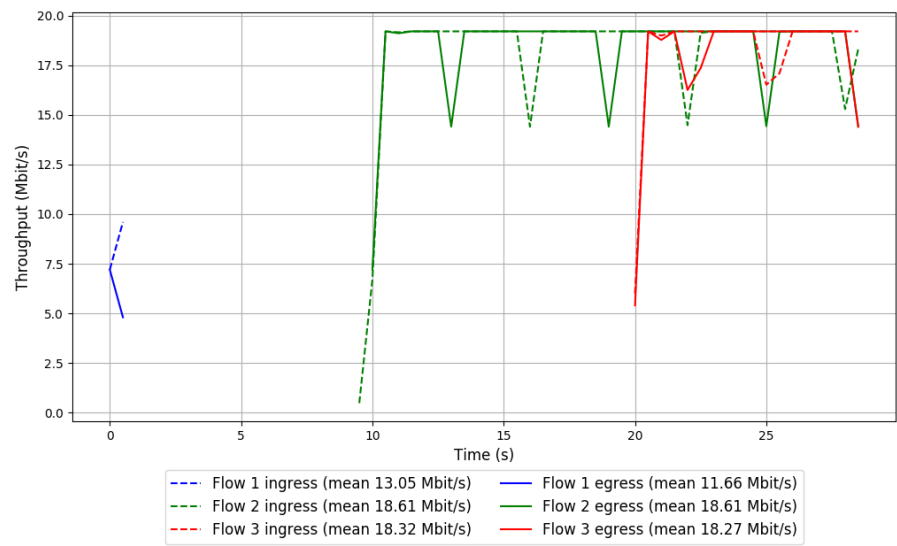
-- Flow 3:

Average throughput: 18.27 Mbit/s

95th percentile per-packet one-way delay: 64.409 ms

Loss rate: 1.72%

Run 10: Report of Saturator — Data Link

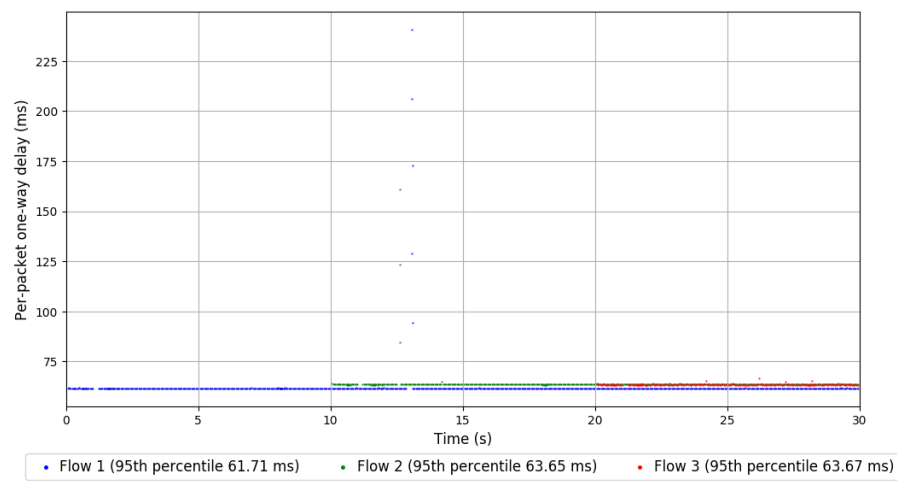
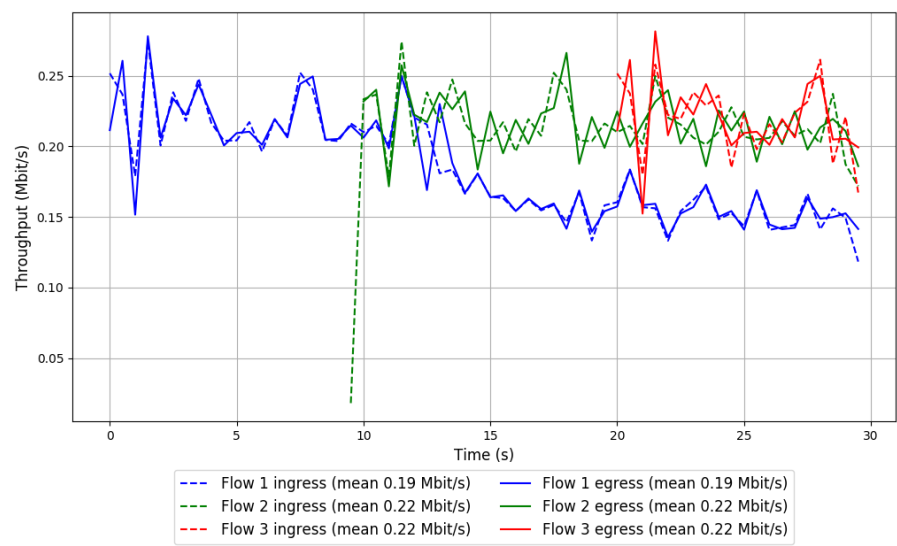


```
Run 1: Statistics of SCReAM

Start at: 2017-08-12 14:32:41
End at: 2017-08-12 14:33:11

# Below is generated by plot.py at 2017-08-12 17:54:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 63.607 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 61.706 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.647 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.675 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

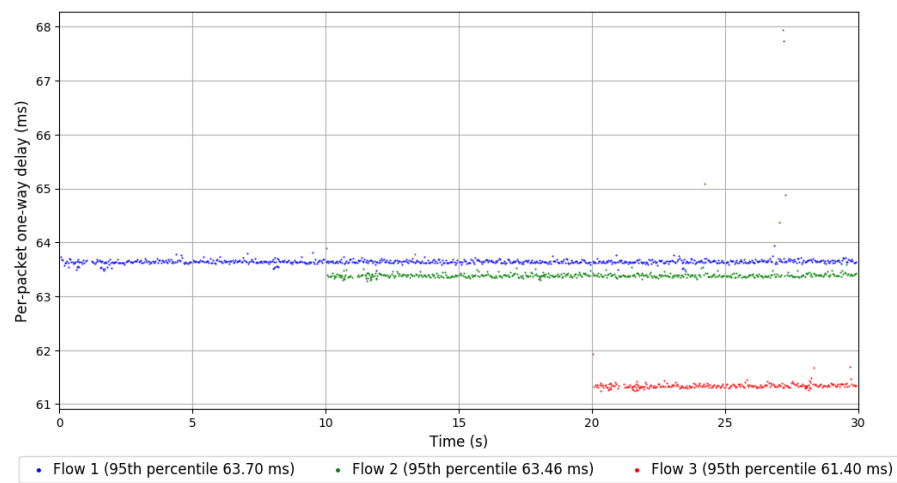
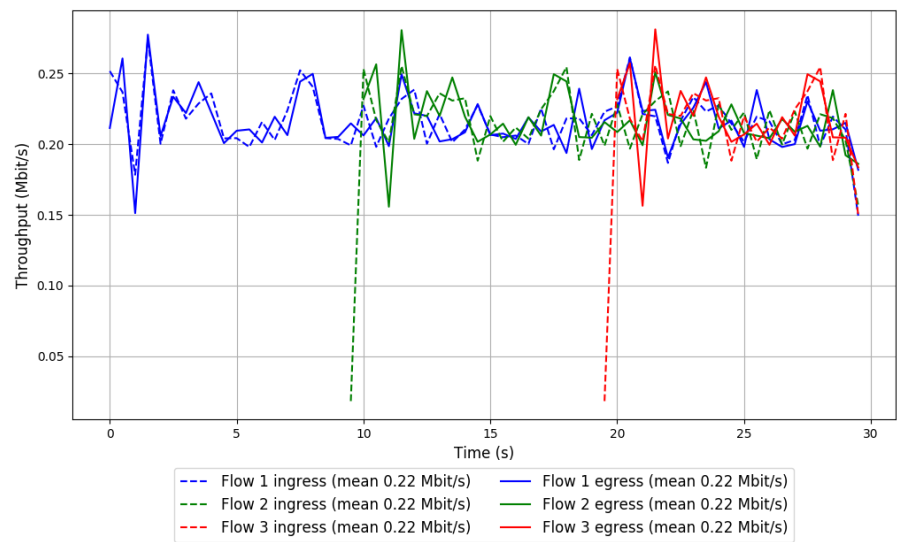


```
Run 2: Statistics of SReAM

Start at: 2017-08-12 14:44:19
End at: 2017-08-12 14:44:49

# Below is generated by plot.py at 2017-08-12 17:54:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.686 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.699 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.464 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.403 ms
Loss rate: 0.00%
```


Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-08-12 14:56:04

End at: 2017-08-12 14:56:34

Below is generated by plot.py at 2017-08-12 17:54:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 61.807 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.844 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.613 ms

Loss rate: 0.00%

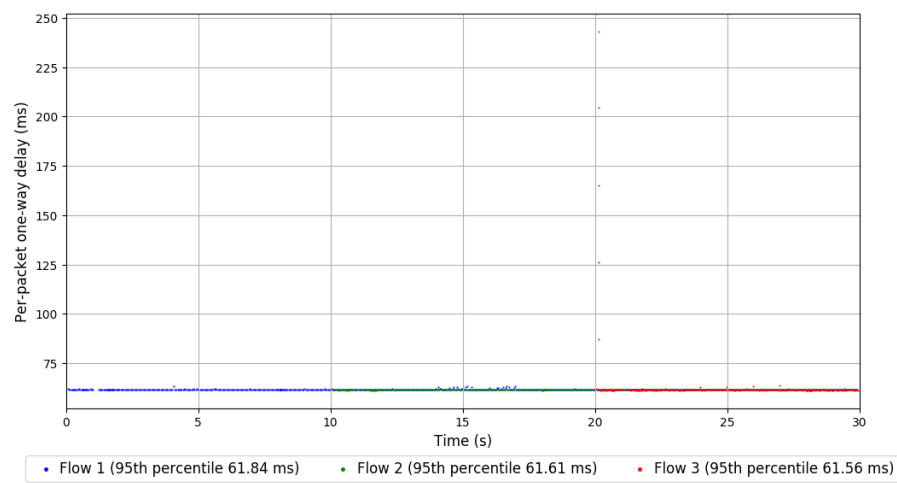
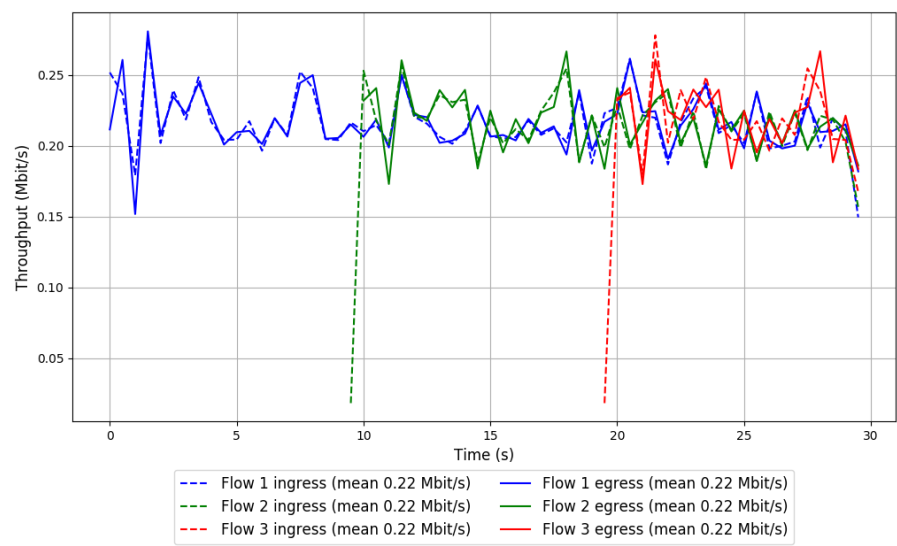
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.564 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2017-08-12 15:07:59

End at: 2017-08-12 15:08:29

Below is generated by plot.py at 2017-08-12 17:54:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 63.599 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.439 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.589 ms

Loss rate: 0.00%

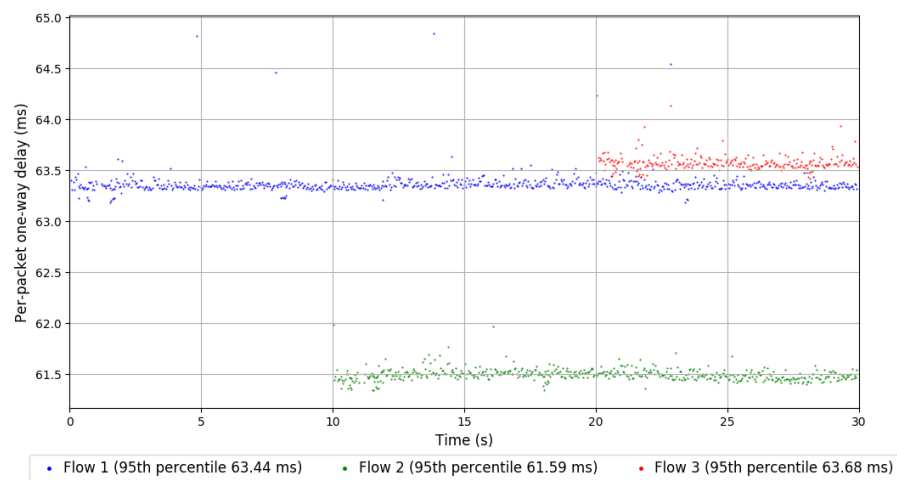
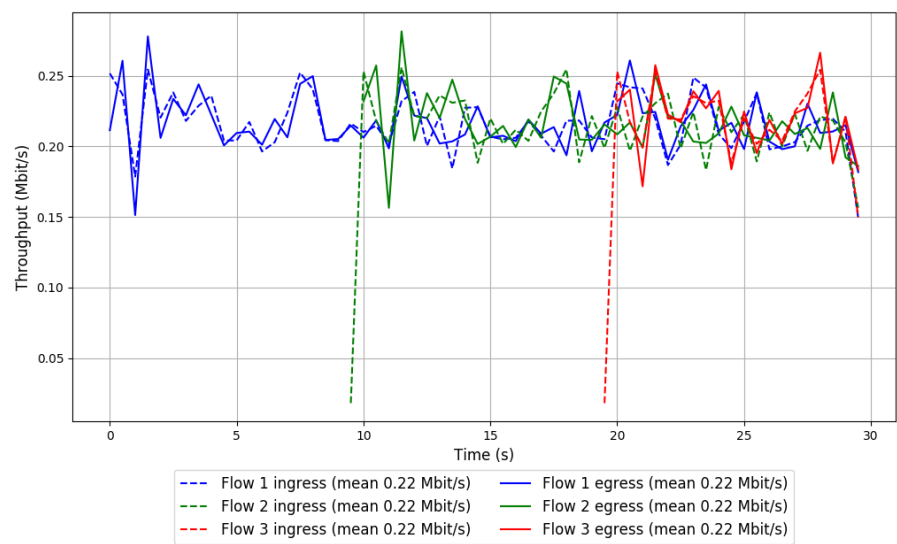
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.681 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2017-08-12 15:19:51

End at: 2017-08-12 15:20:21

Below is generated by plot.py at 2017-08-12 17:54:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 63.653 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.692 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.656 ms

Loss rate: 0.00%

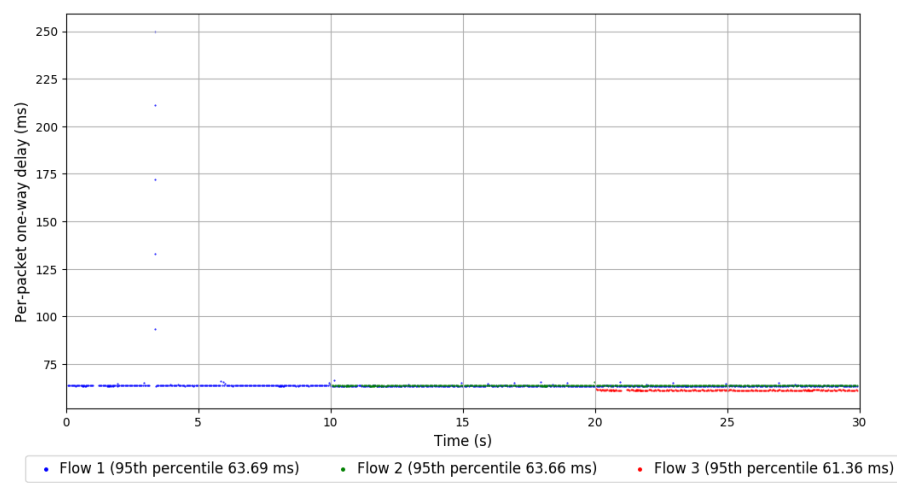
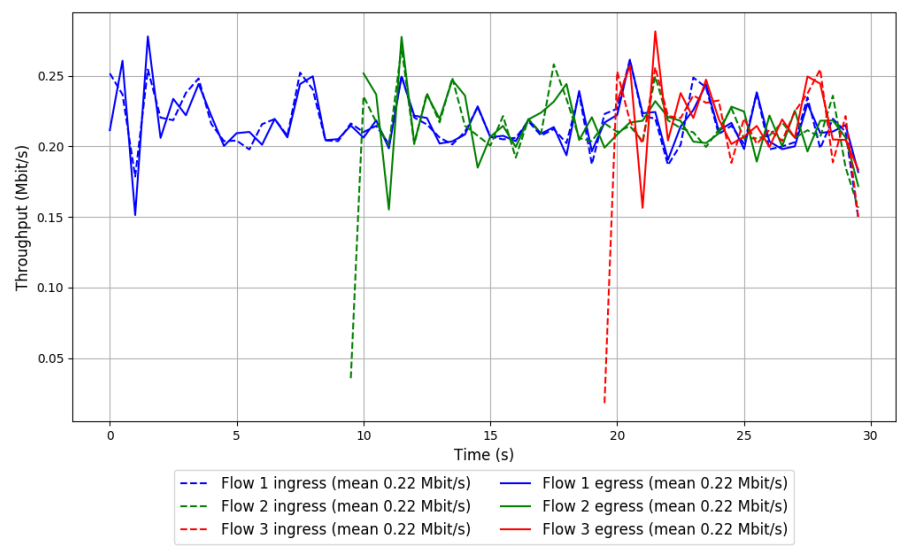
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.356 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-08-12 15:31:30

End at: 2017-08-12 15:32:00

Below is generated by plot.py at 2017-08-12 17:54:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 63.774 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.840 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.659 ms

Loss rate: 0.00%

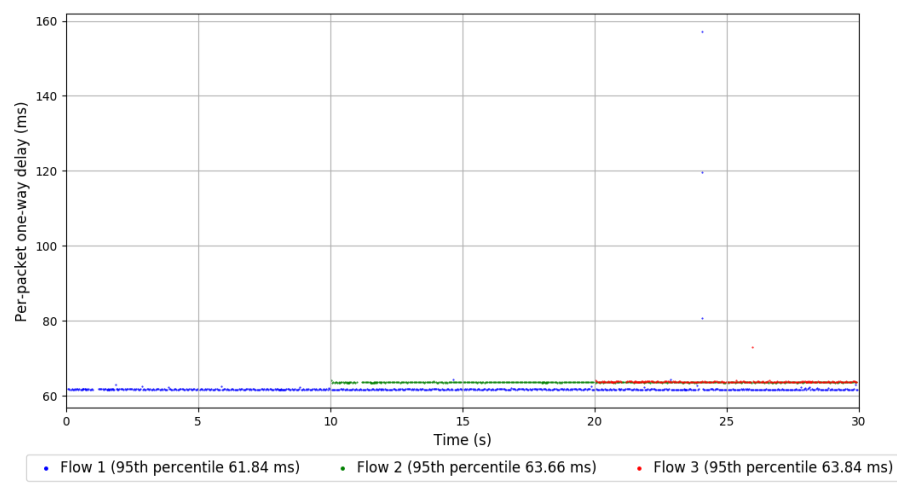
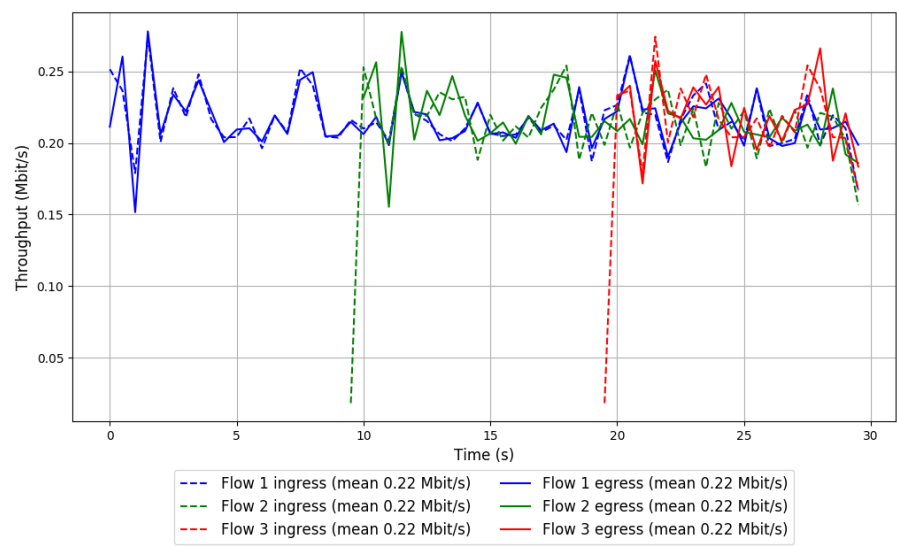
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.836 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SReAM

Start at: 2017-08-12 15:43:15

End at: 2017-08-12 15:43:45

Below is generated by plot.py at 2017-08-12 17:54:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 63.763 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.643 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.732 ms

Loss rate: 0.00%

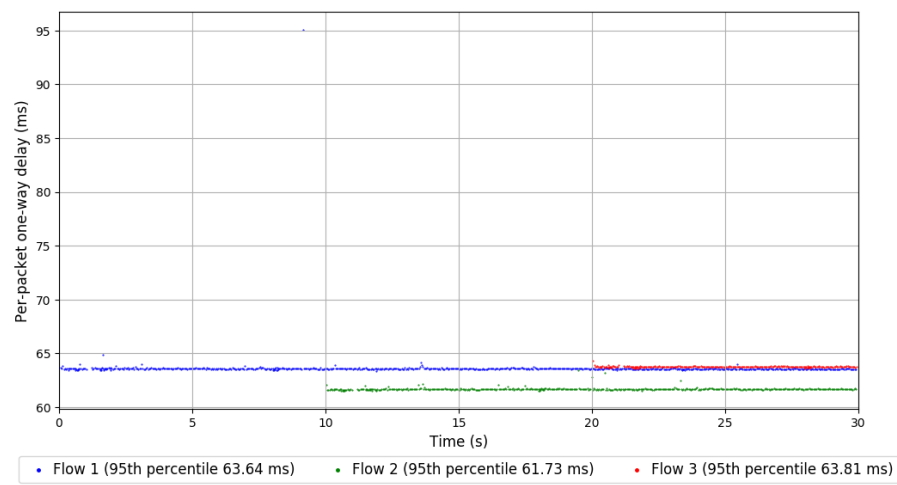
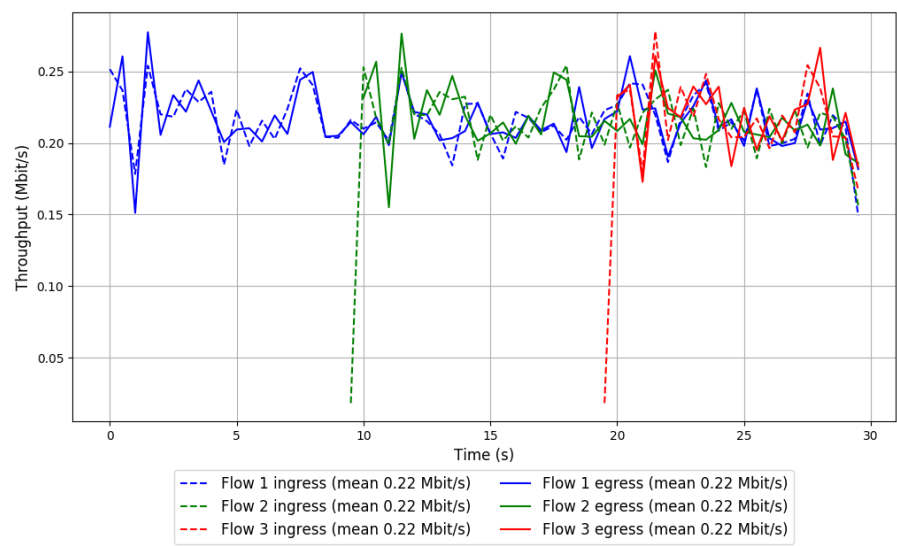
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.811 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2017-08-12 15:54:07

End at: 2017-08-12 15:54:37

Below is generated by plot.py at 2017-08-12 17:54:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 63.809 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.359 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.839 ms

Loss rate: 0.00%

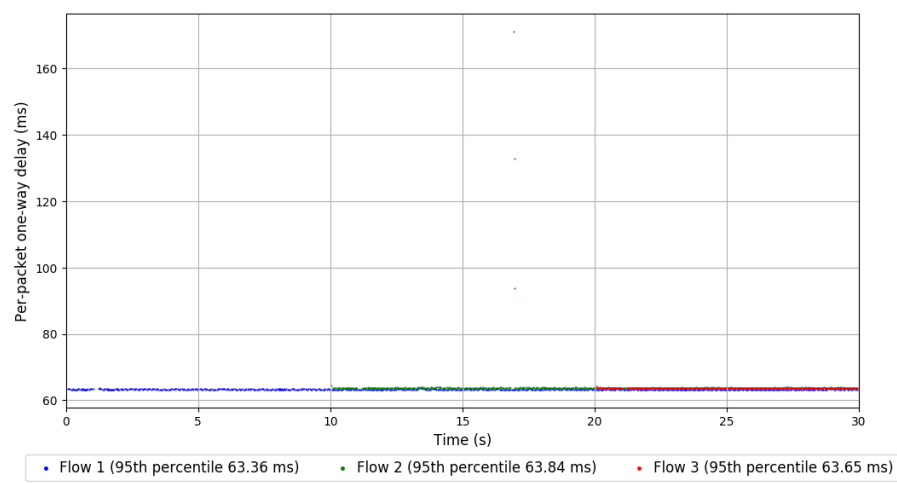
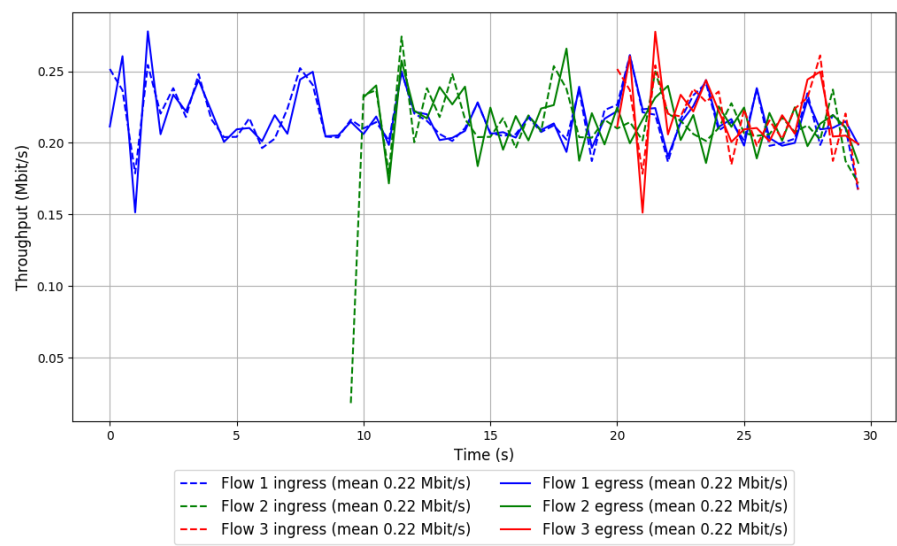
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.652 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2017-08-12 16:05:21

End at: 2017-08-12 16:05:51

Below is generated by plot.py at 2017-08-12 17:54:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 63.731 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.755 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.590 ms

Loss rate: 0.00%

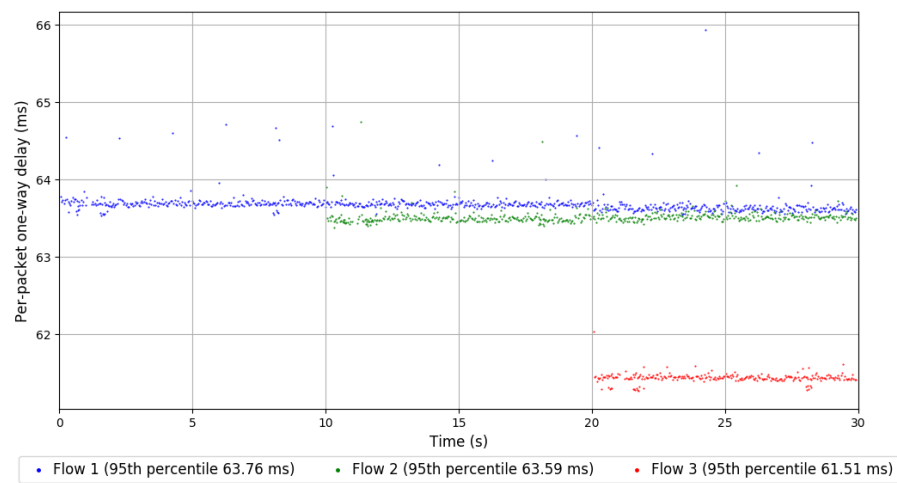
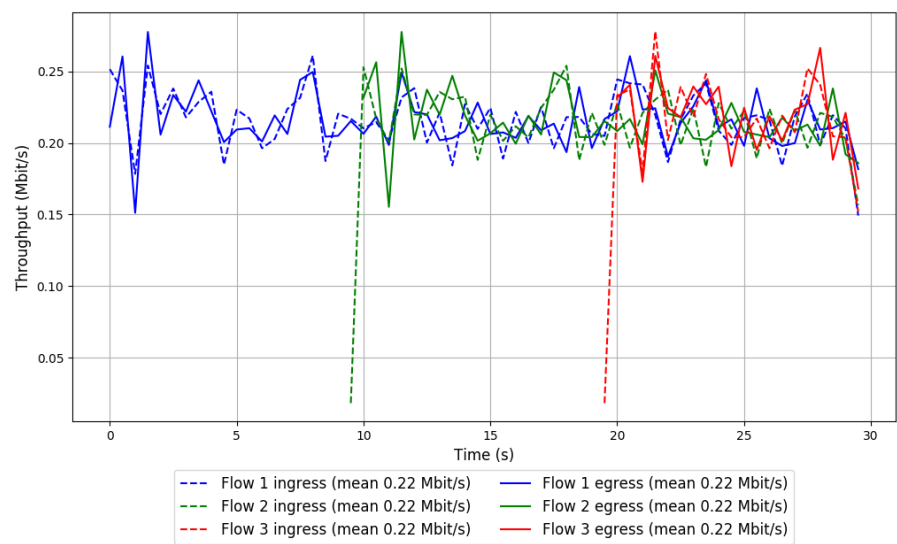
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.506 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

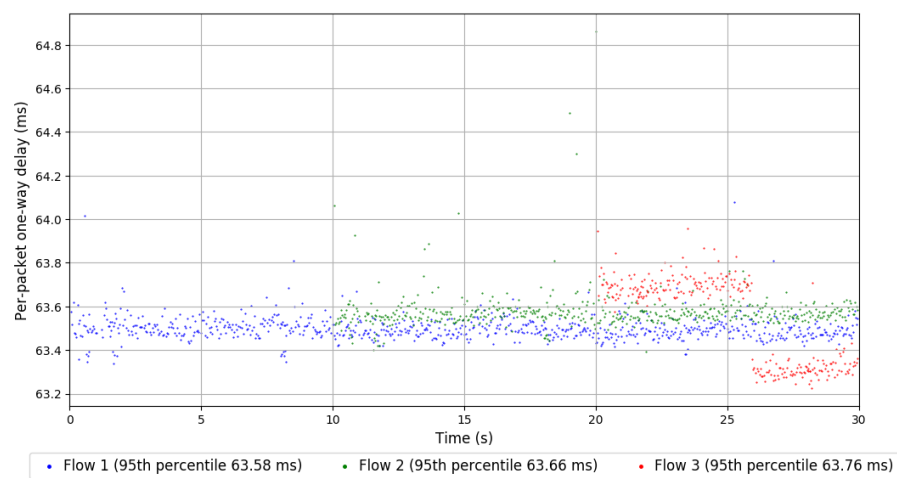
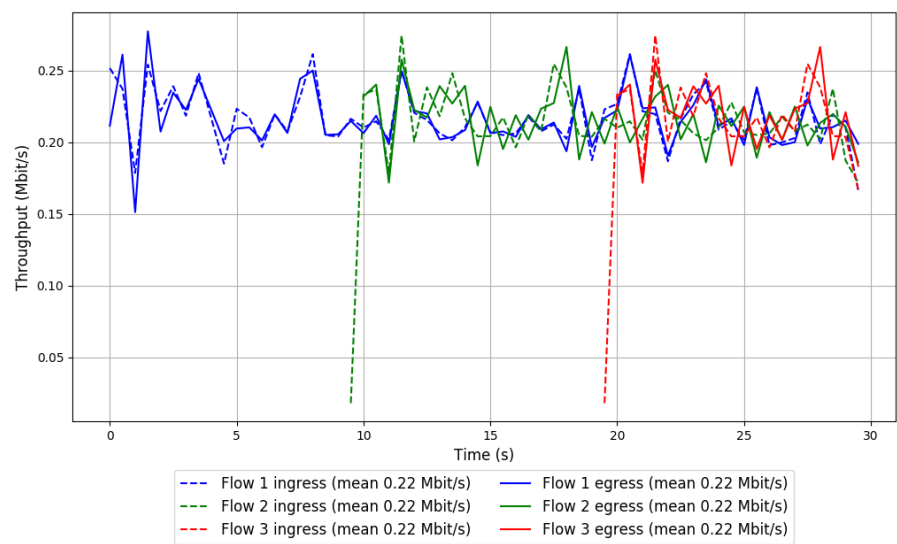


```
Run 10: Statistics of SReAM

Start at: 2017-08-12 16:16:44
End at: 2017-08-12 16:17:14

# Below is generated by plot.py at 2017-08-12 17:54:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.708 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.579 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.664 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.764 ms
Loss rate: 0.00%
```


Run 10: Report of SReAM — Data Link

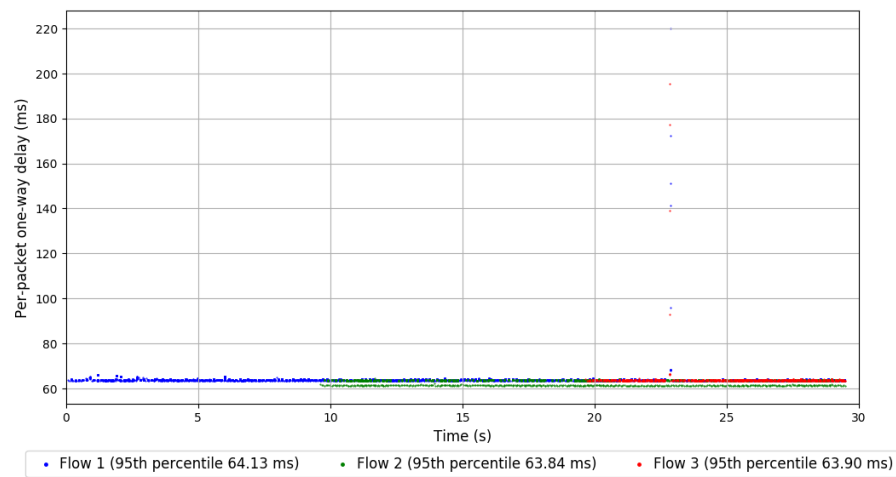
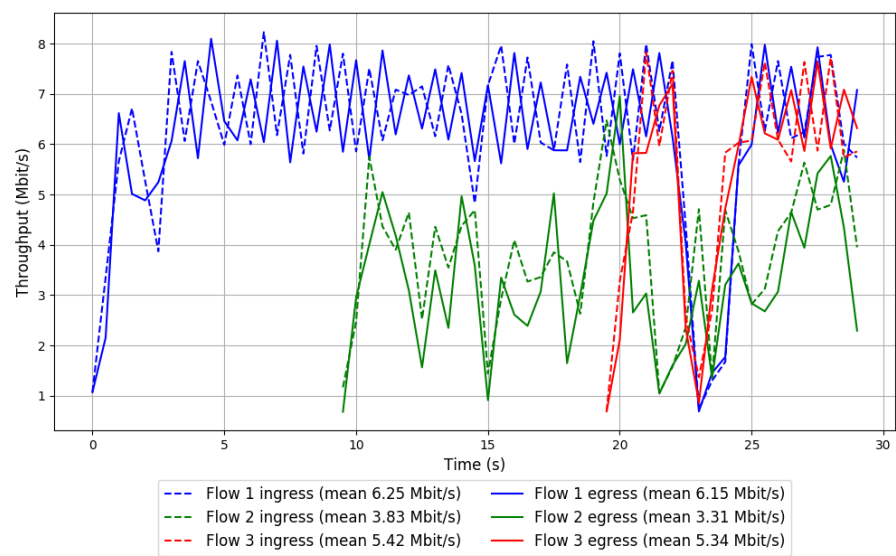


```
Run 1: Statistics of Sprout

Start at: 2017-08-12 14:35:31
End at: 2017-08-12 14:36:01

# Below is generated by plot.py at 2017-08-12 17:54:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 10.16 Mbit/s
95th percentile per-packet one-way delay: 64.061 ms
Loss rate: 4.66%
-- Flow 1:
Average throughput: 6.15 Mbit/s
95th percentile per-packet one-way delay: 64.126 ms
Loss rate: 1.79%
-- Flow 2:
Average throughput: 3.31 Mbit/s
95th percentile per-packet one-way delay: 63.835 ms
Loss rate: 13.77%
-- Flow 3:
Average throughput: 5.34 Mbit/s
95th percentile per-packet one-way delay: 63.895 ms
Loss rate: 1.58%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-08-12 14:47:05

End at: 2017-08-12 14:47:36

Below is generated by plot.py at 2017-08-12 17:54:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.49 Mbit/s

95th percentile per-packet one-way delay: 63.938 ms

Loss rate: 5.76%

-- Flow 1:

Average throughput: 2.95 Mbit/s

95th percentile per-packet one-way delay: 63.810 ms

Loss rate: 13.98%

-- Flow 2:

Average throughput: 5.33 Mbit/s

95th percentile per-packet one-way delay: 63.993 ms

Loss rate: 0.98%

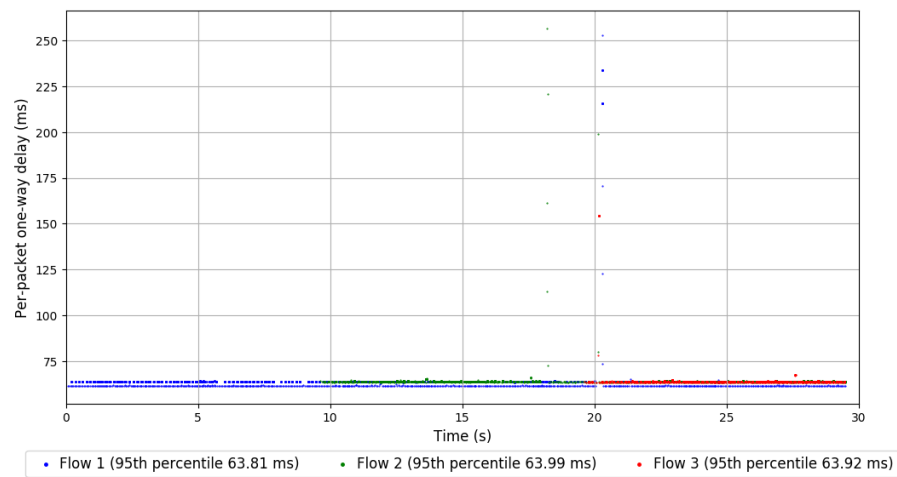
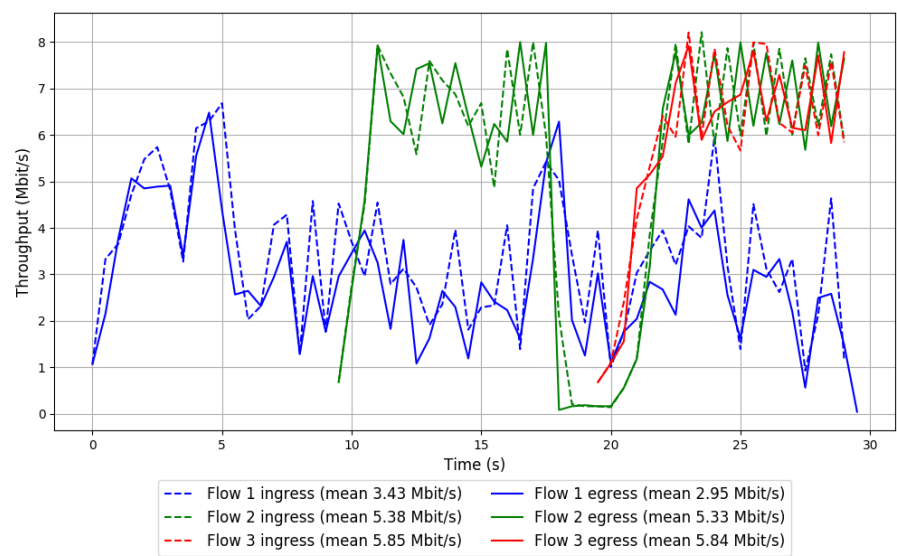
-- Flow 3:

Average throughput: 5.84 Mbit/s

95th percentile per-packet one-way delay: 63.924 ms

Loss rate: 0.23%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-08-12 14:58:54

End at: 2017-08-12 14:59:24

Below is generated by plot.py at 2017-08-12 17:54:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 9.57 Mbit/s

95th percentile per-packet one-way delay: 64.089 ms

Loss rate: 5.93%

-- Flow 1:

Average throughput: 3.07 Mbit/s

95th percentile per-packet one-way delay: 63.889 ms

Loss rate: 16.41%

-- Flow 2:

Average throughput: 6.41 Mbit/s

95th percentile per-packet one-way delay: 64.159 ms

Loss rate: 0.00%

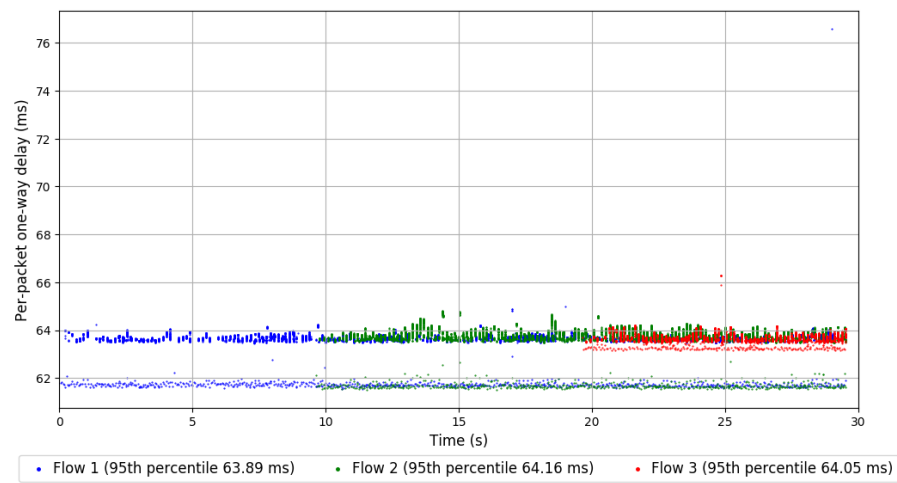
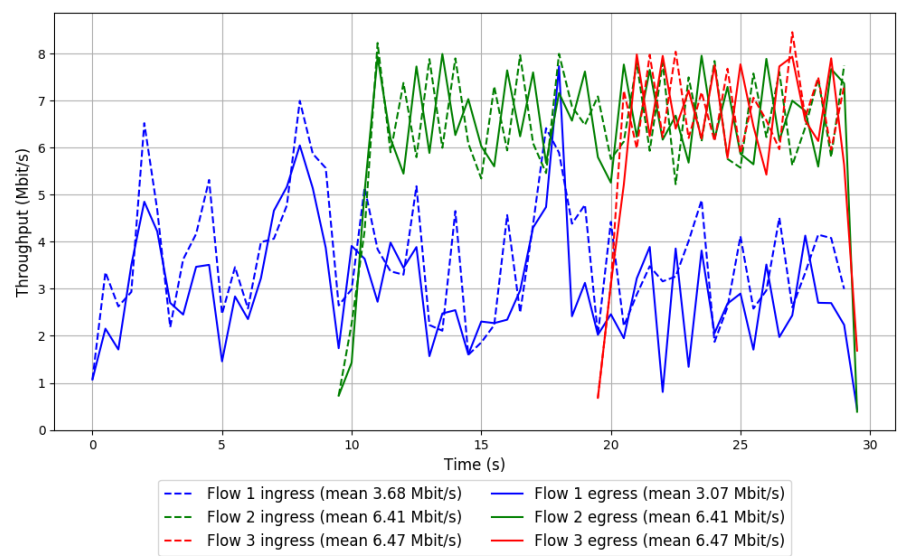
-- Flow 3:

Average throughput: 6.47 Mbit/s

95th percentile per-packet one-way delay: 64.052 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-08-12 15:10:50

End at: 2017-08-12 15:11:20

Below is generated by plot.py at 2017-08-12 17:54:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 9.63 Mbit/s

95th percentile per-packet one-way delay: 64.001 ms

Loss rate: 1.95%

-- Flow 1:

Average throughput: 4.50 Mbit/s

95th percentile per-packet one-way delay: 64.015 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 6.44 Mbit/s

95th percentile per-packet one-way delay: 64.006 ms

Loss rate: 0.02%

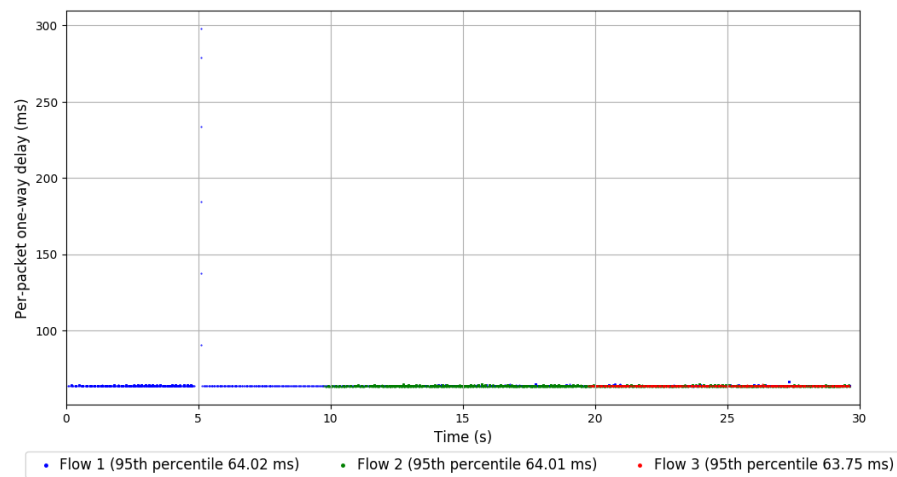
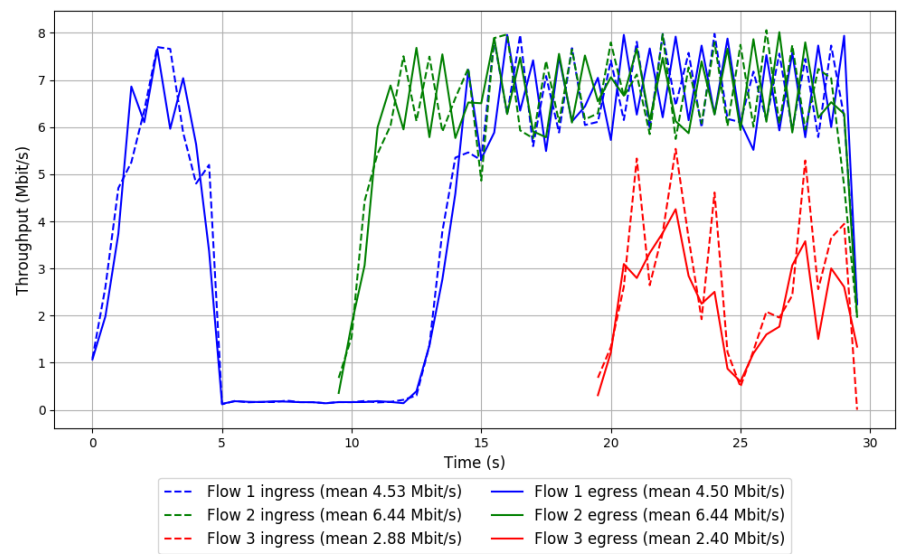
-- Flow 3:

Average throughput: 2.40 Mbit/s

95th percentile per-packet one-way delay: 63.747 ms

Loss rate: 16.61%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-08-12 15:22:41

End at: 2017-08-12 15:23:11

Below is generated by plot.py at 2017-08-12 17:54:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.17 Mbit/s

95th percentile per-packet one-way delay: 63.904 ms

Loss rate: 1.15%

-- Flow 1:

Average throughput: 6.44 Mbit/s

95th percentile per-packet one-way delay: 63.863 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 5.64 Mbit/s

95th percentile per-packet one-way delay: 63.876 ms

Loss rate: 0.90%

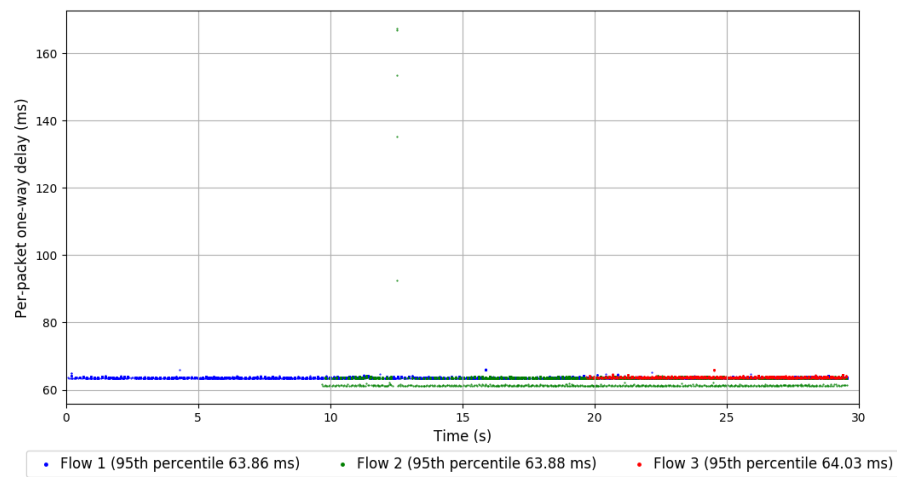
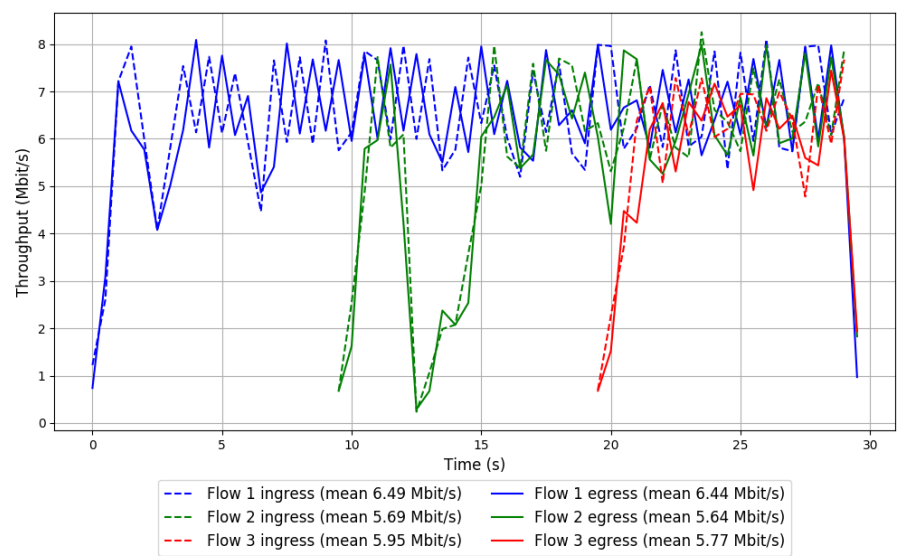
-- Flow 3:

Average throughput: 5.77 Mbit/s

95th percentile per-packet one-way delay: 64.025 ms

Loss rate: 3.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-08-12 15:34:23

End at: 2017-08-12 15:34:53

Below is generated by plot.py at 2017-08-12 17:55:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.71 Mbit/s

95th percentile per-packet one-way delay: 63.957 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 6.52 Mbit/s

95th percentile per-packet one-way delay: 63.930 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 6.16 Mbit/s

95th percentile per-packet one-way delay: 64.033 ms

Loss rate: 1.15%

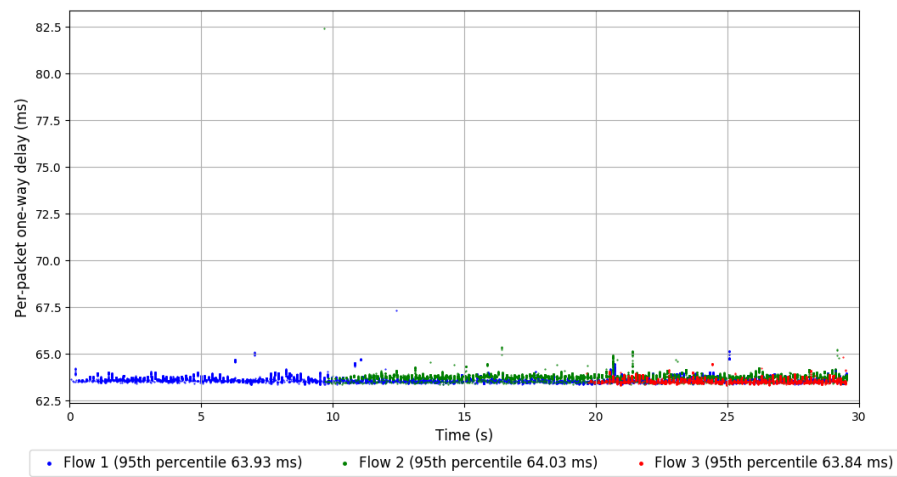
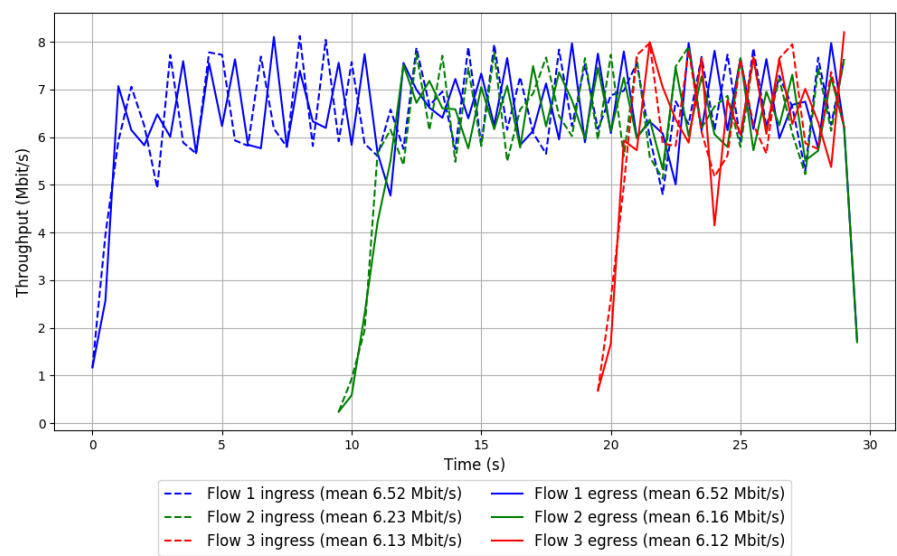
-- Flow 3:

Average throughput: 6.12 Mbit/s

95th percentile per-packet one-way delay: 63.843 ms

Loss rate: 0.20%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-08-12 15:46:03

End at: 2017-08-12 15:46:33

Below is generated by plot.py at 2017-08-12 17:55:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.48 Mbit/s

95th percentile per-packet one-way delay: 63.950 ms

Loss rate: 15.24%

-- Flow 1:

Average throughput: 3.38 Mbit/s

95th percentile per-packet one-way delay: 63.905 ms

Loss rate: 14.19%

-- Flow 2:

Average throughput: 2.88 Mbit/s

95th percentile per-packet one-way delay: 64.006 ms

Loss rate: 16.94%

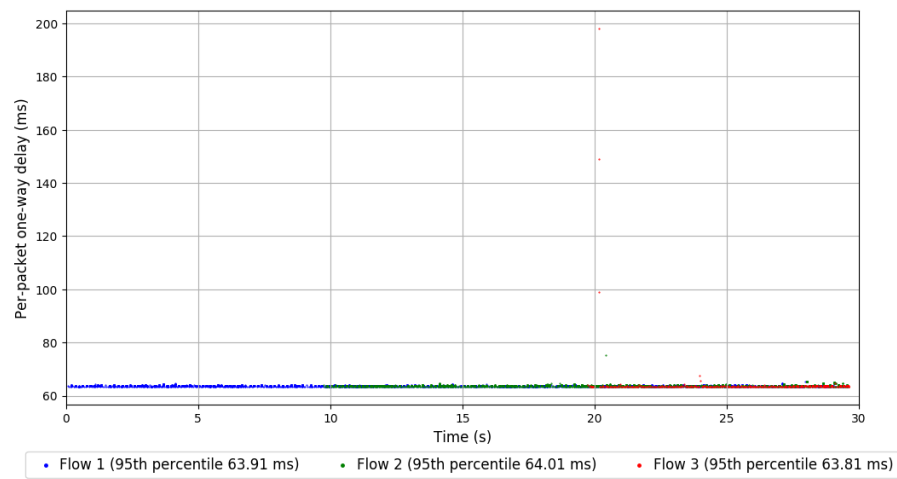
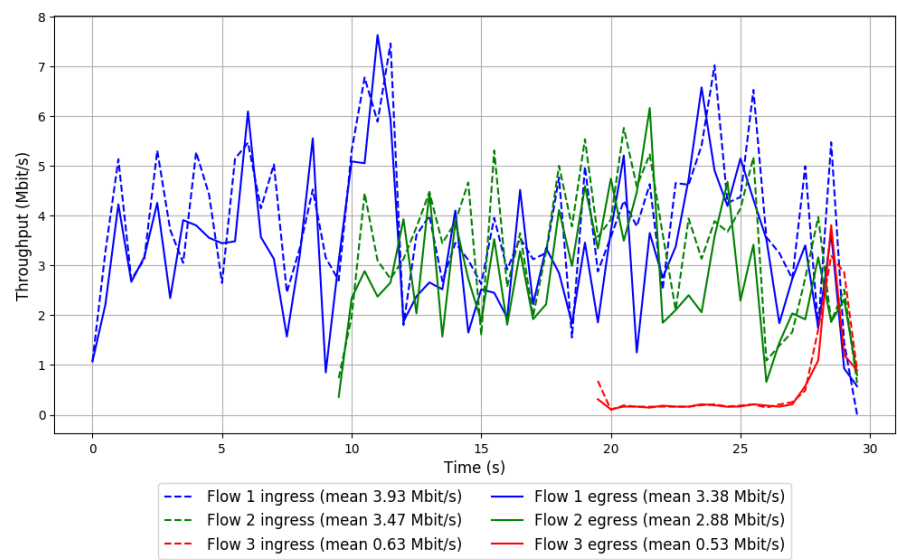
-- Flow 3:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 63.809 ms

Loss rate: 16.12%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-08-12 15:56:54

End at: 2017-08-12 15:57:24

Below is generated by plot.py at 2017-08-12 17:55:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.23 Mbit/s

95th percentile per-packet one-way delay: 63.749 ms

Loss rate: 11.22%

-- Flow 1:

Average throughput: 3.18 Mbit/s

95th percentile per-packet one-way delay: 63.790 ms

Loss rate: 12.93%

-- Flow 2:

Average throughput: 2.99 Mbit/s

95th percentile per-packet one-way delay: 63.793 ms

Loss rate: 16.96%

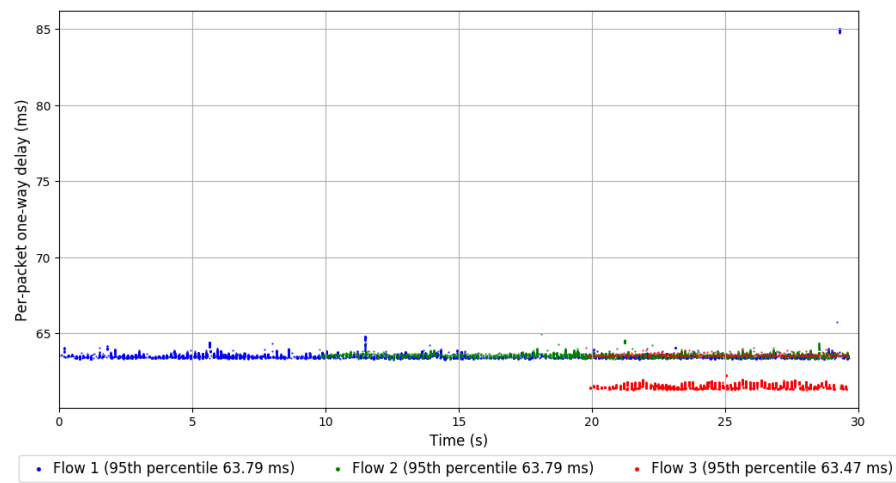
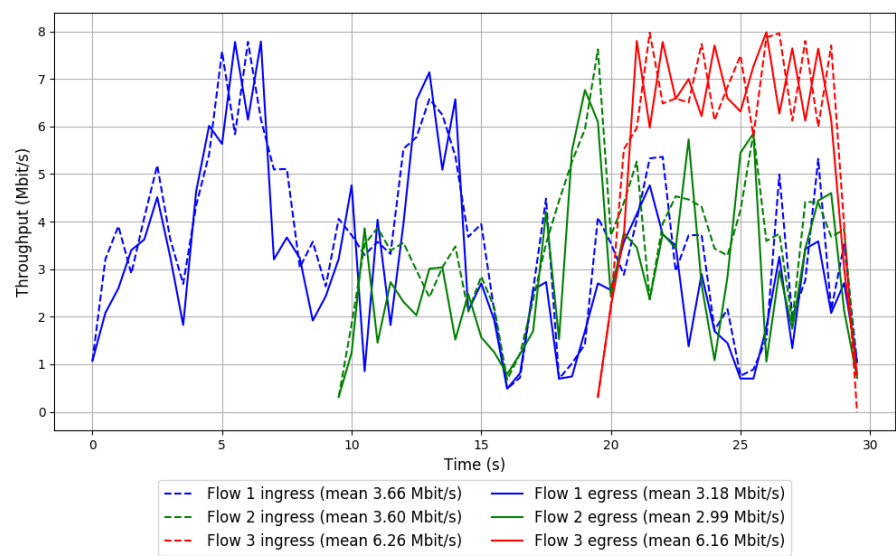
-- Flow 3:

Average throughput: 6.16 Mbit/s

95th percentile per-packet one-way delay: 63.466 ms

Loss rate: 1.54%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

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

End at: 2017-08-12 16:08:39

Below is generated by plot.py at 2017-08-12 17:55:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.85 Mbit/s

95th percentile per-packet one-way delay: 63.760 ms

Loss rate: 4.96%

-- Flow 1:

Average throughput: 6.40 Mbit/s

95th percentile per-packet one-way delay: 63.518 ms

Loss rate: 1.03%

-- Flow 2:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 64.029 ms

Loss rate: 11.74%

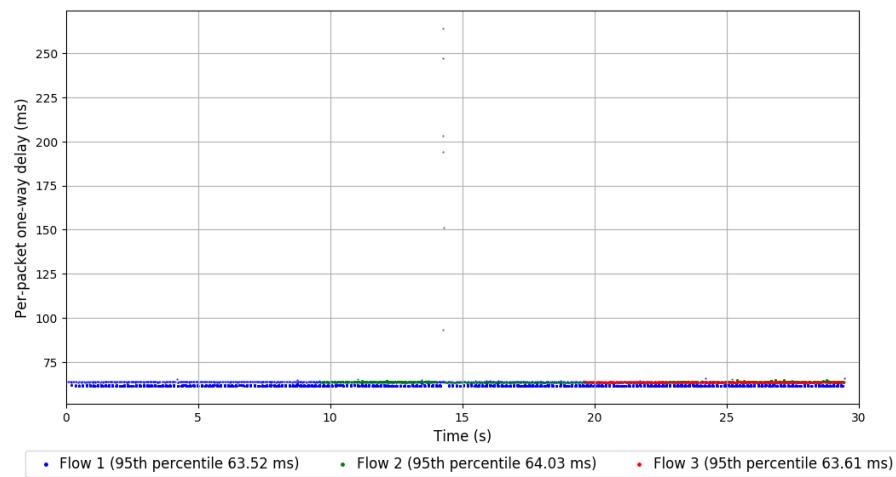
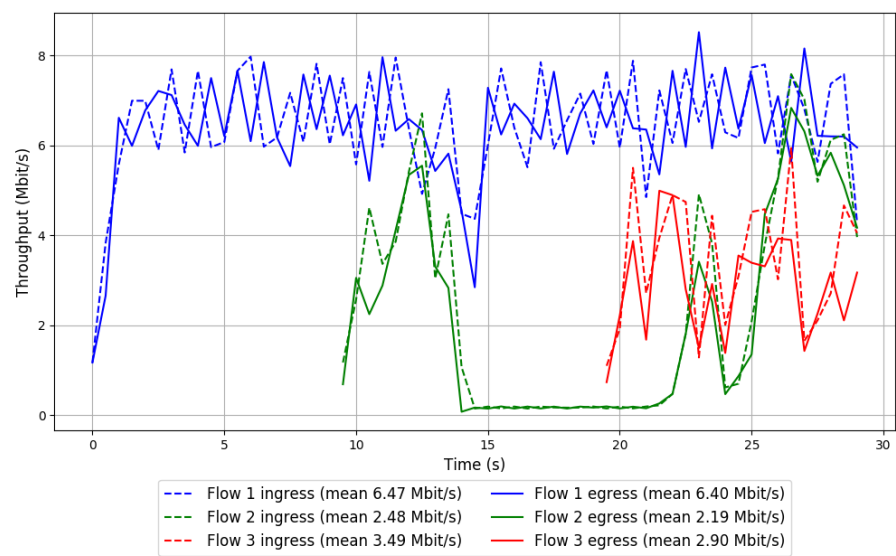
-- Flow 3:

Average throughput: 2.90 Mbit/s

95th percentile per-packet one-way delay: 63.606 ms

Loss rate: 16.99%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-08-12 16:19:33

End at: 2017-08-12 16:20:03

Below is generated by plot.py at 2017-08-12 17:55:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.95 Mbit/s

95th percentile per-packet one-way delay: 67.332 ms

Loss rate: 2.72%

-- Flow 1:

Average throughput: 5.29 Mbit/s

95th percentile per-packet one-way delay: 67.545 ms

Loss rate: 2.22%

-- Flow 2:

Average throughput: 5.30 Mbit/s

95th percentile per-packet one-way delay: 66.502 ms

Loss rate: 3.11%

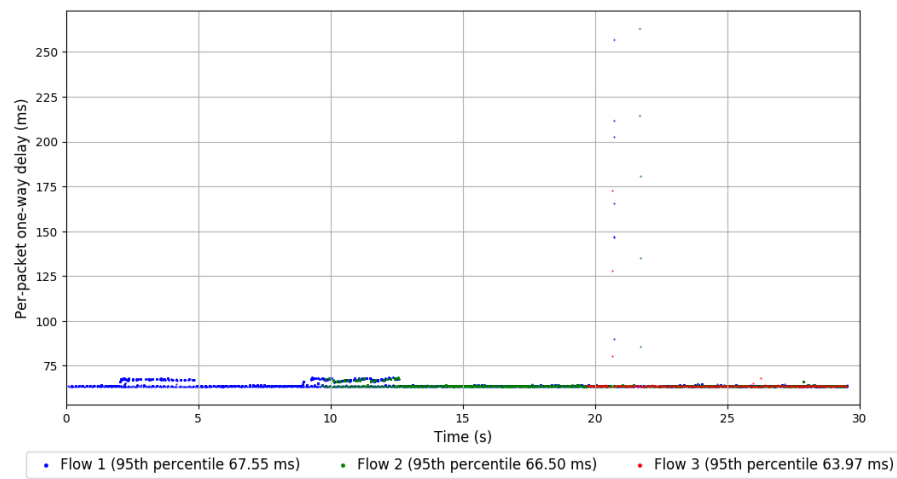
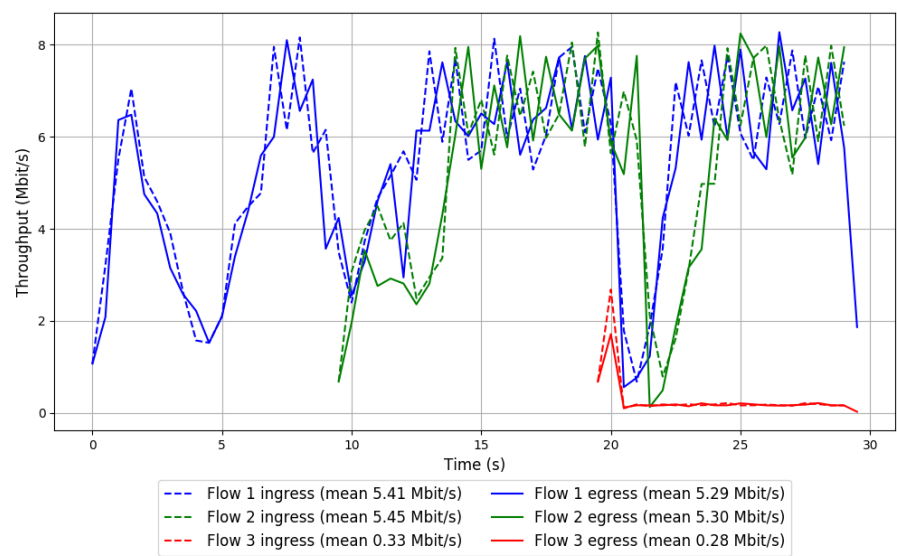
-- Flow 3:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 63.973 ms

Loss rate: 14.65%

Run 10: Report of Sprout — Data Link

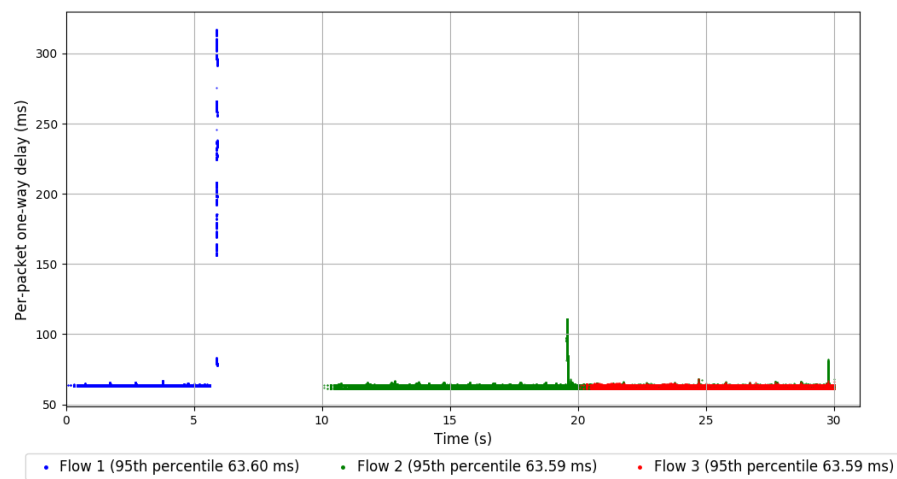
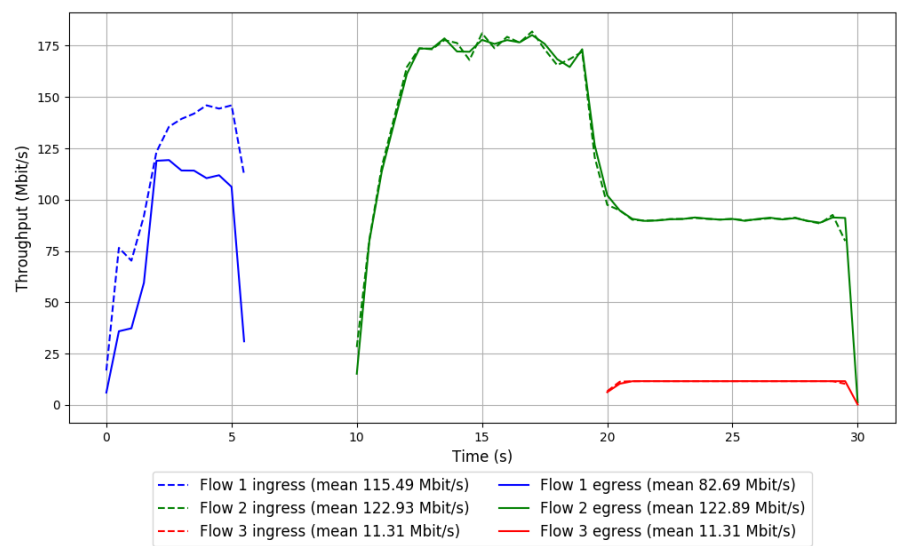


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-08-12 14:38:48
End at: 2017-08-12 14:39:18

# Below is generated by plot.py at 2017-08-12 17:55:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 101.66 Mbit/s
95th percentile per-packet one-way delay: 63.587 ms
Loss rate: 5.86%
-- Flow 1:
Average throughput: 82.69 Mbit/s
95th percentile per-packet one-way delay: 63.596 ms
Loss rate: 28.22%
-- Flow 2:
Average throughput: 122.89 Mbit/s
95th percentile per-packet one-way delay: 63.586 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.31 Mbit/s
95th percentile per-packet one-way delay: 63.585 ms
Loss rate: 0.01%
```

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

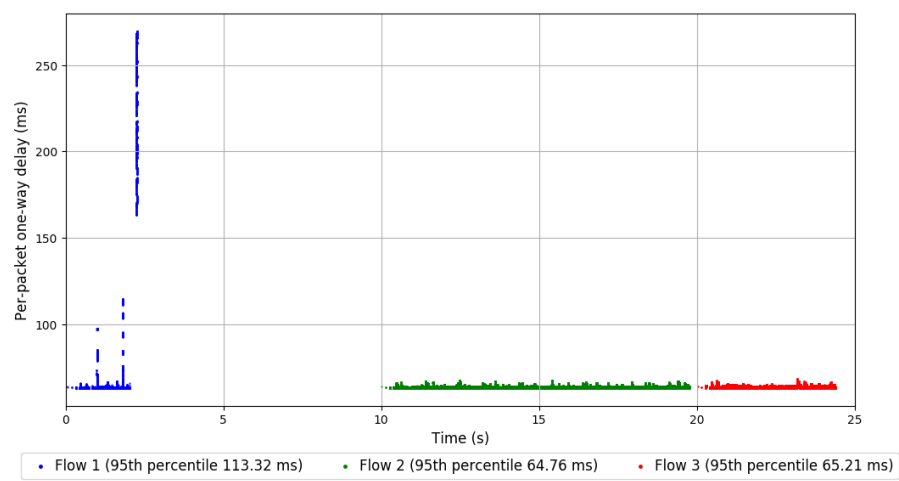
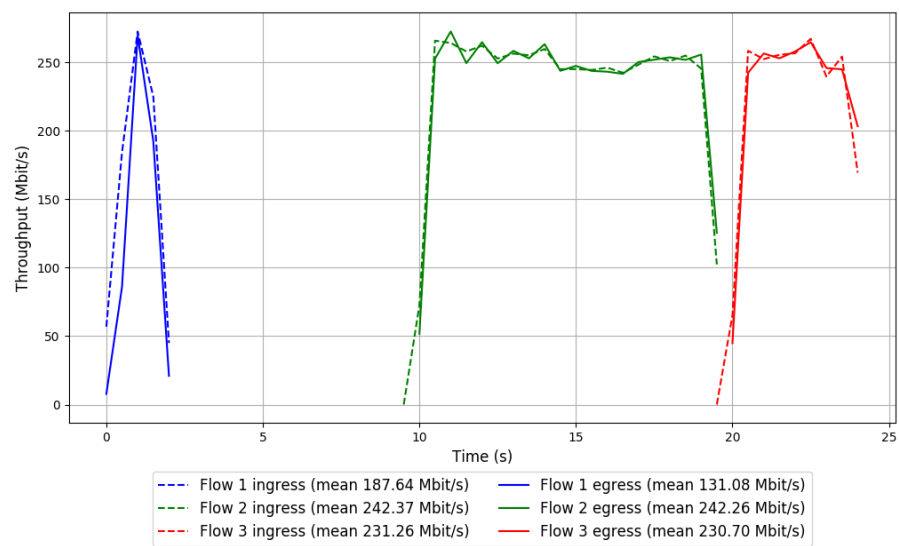


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-08-12 14:50:23
End at: 2017-08-12 14:50:53

# Below is generated by plot.py at 2017-08-12 17:55:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 150.36 Mbit/s
95th percentile per-packet one-way delay: 65.047 ms
Loss rate: 2.85%
-- Flow 1:
Average throughput: 131.08 Mbit/s
95th percentile per-packet one-way delay: 113.322 ms
Loss rate: 26.37%
-- Flow 2:
Average throughput: 242.26 Mbit/s
95th percentile per-packet one-way delay: 64.760 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 230.70 Mbit/s
95th percentile per-packet one-way delay: 65.206 ms
Loss rate: 0.26%
```


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



Run 3: Statistics of TaoVA-100x

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

End at: 2017-08-12 15:02:45

Below is generated by plot.py at 2017-08-12 17:56:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 201.66 Mbit/s

95th percentile per-packet one-way delay: 63.972 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 141.41 Mbit/s

95th percentile per-packet one-way delay: 64.023 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 52.40 Mbit/s

95th percentile per-packet one-way delay: 64.085 ms

Loss rate: 0.51%

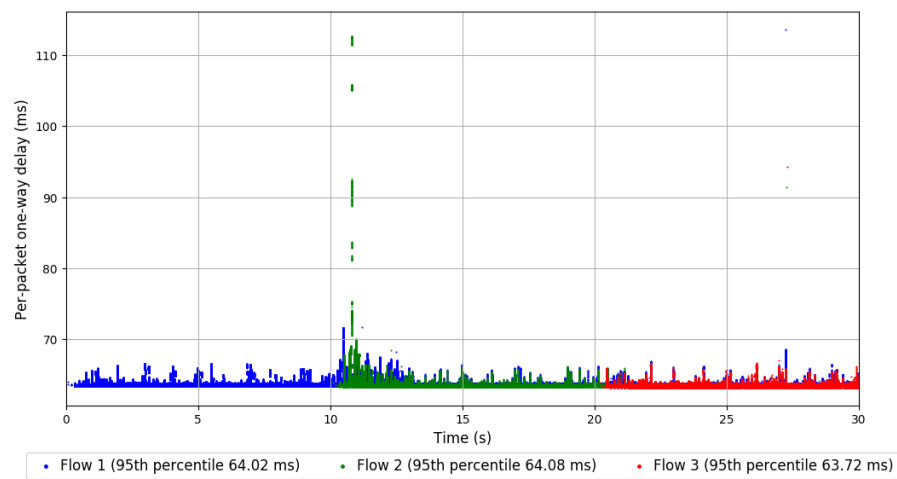
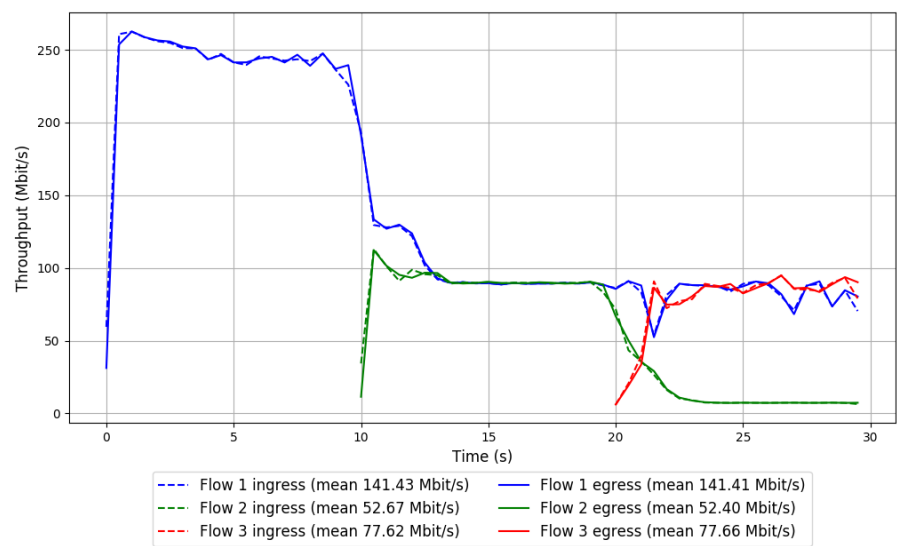
-- Flow 3:

Average throughput: 77.66 Mbit/s

95th percentile per-packet one-way delay: 63.715 ms

Loss rate: 0.01%

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-08-12 15:13:58

End at: 2017-08-12 15:14:28

Below is generated by plot.py at 2017-08-12 17:57:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 204.01 Mbit/s

95th percentile per-packet one-way delay: 64.511 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 232.56 Mbit/s

95th percentile per-packet one-way delay: 63.921 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 235.89 Mbit/s

95th percentile per-packet one-way delay: 64.493 ms

Loss rate: 0.25%

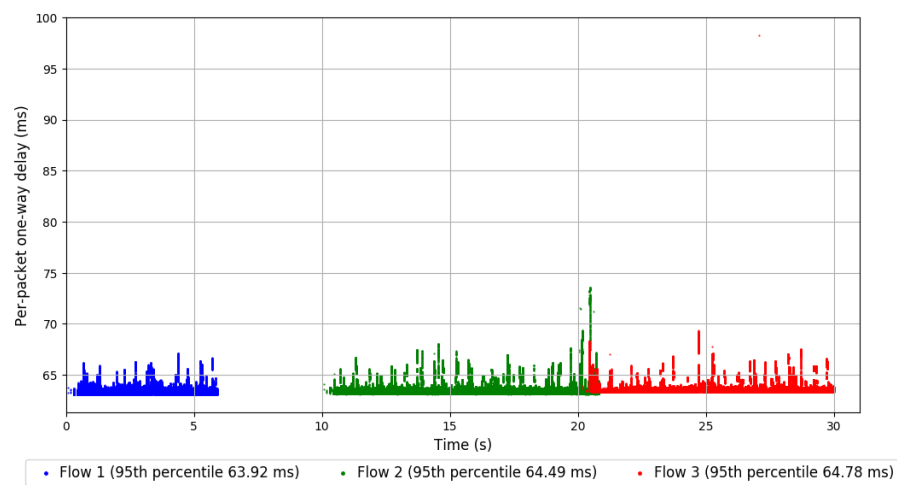
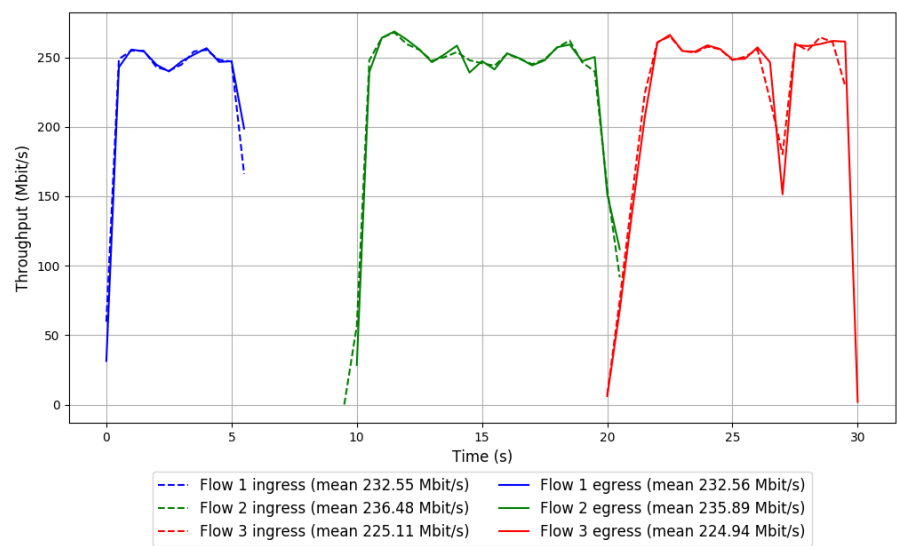
-- Flow 3:

Average throughput: 224.94 Mbit/s

95th percentile per-packet one-way delay: 64.779 ms

Loss rate: 0.08%

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

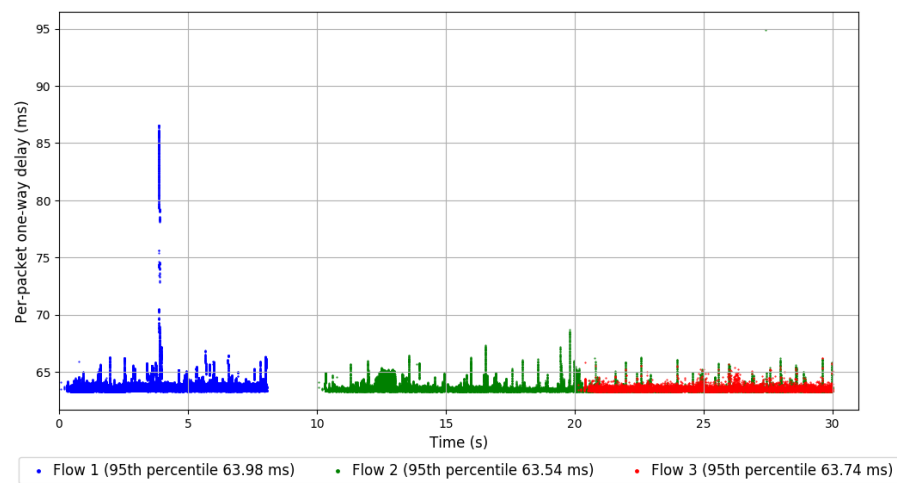
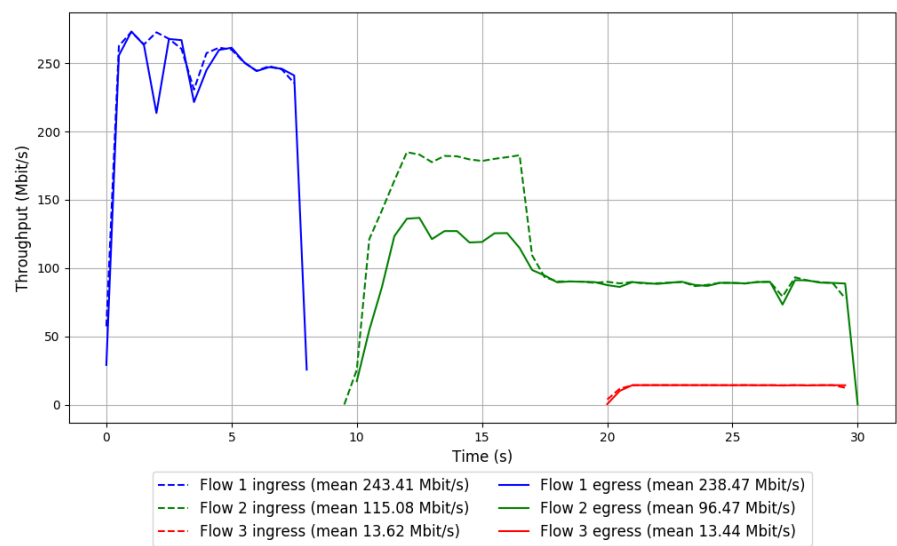


```
Run 5: Statistics of TaoVA-100x

Start at: 2017-08-12 15:25:52
End at: 2017-08-12 15:26:22

# Below is generated by plot.py at 2017-08-12 17:57:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 132.35 Mbit/s
95th percentile per-packet one-way delay: 63.841 ms
Loss rate: 9.44%
-- Flow 1:
Average throughput: 238.47 Mbit/s
95th percentile per-packet one-way delay: 63.975 ms
Loss rate: 2.03%
-- Flow 2:
Average throughput: 96.47 Mbit/s
95th percentile per-packet one-way delay: 63.542 ms
Loss rate: 16.19%
-- Flow 3:
Average throughput: 13.44 Mbit/s
95th percentile per-packet one-way delay: 63.743 ms
Loss rate: 1.31%
```

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

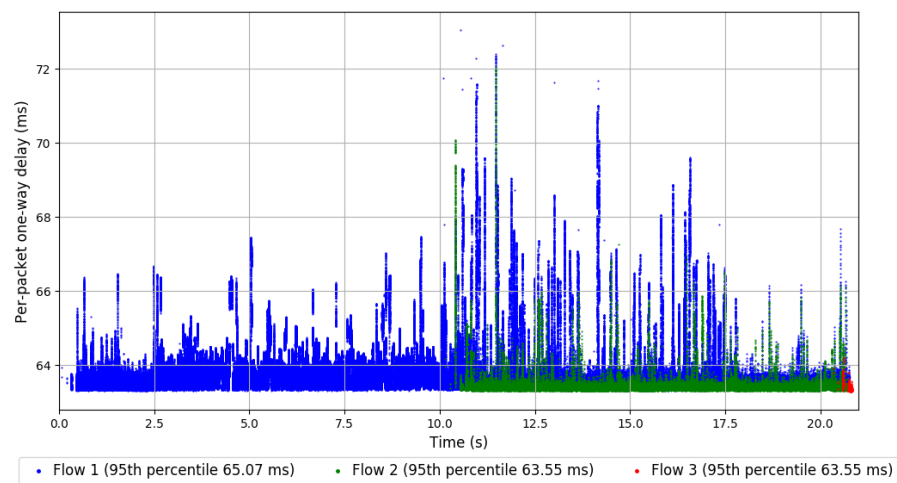
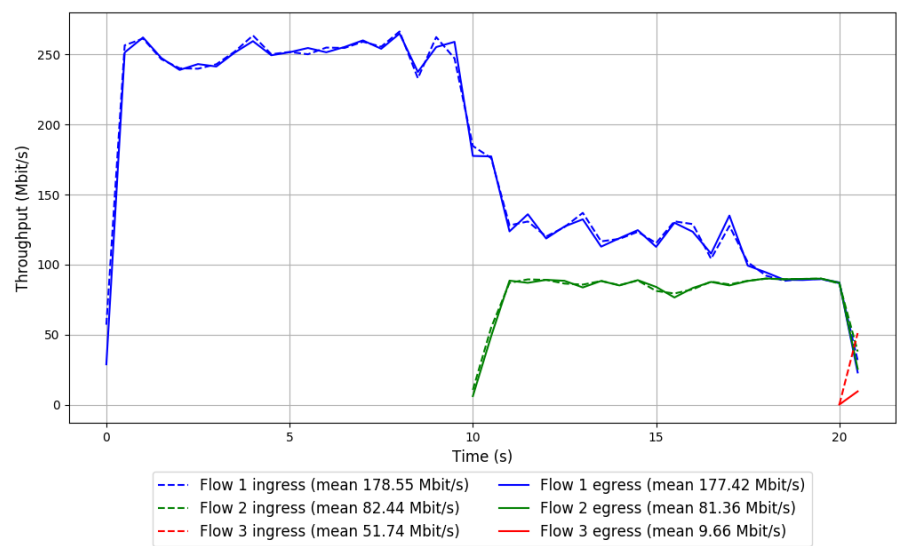


Run 6: Statistics of TaoVA-100x

Start at: 2017-08-12 15:37:33

End at: 2017-08-12 15:38:03

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

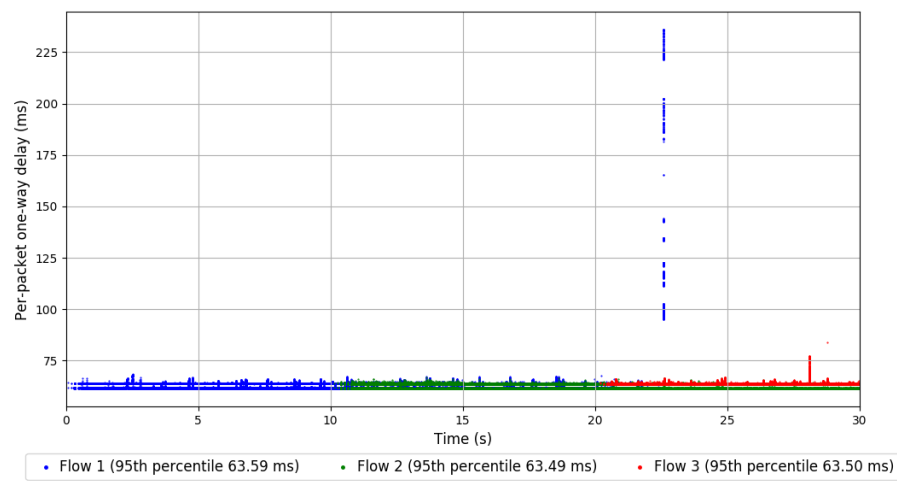
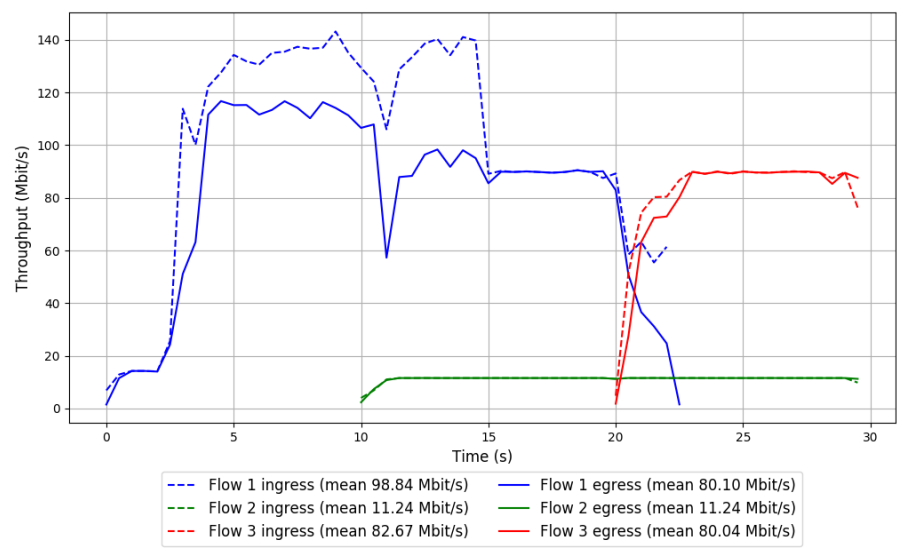


```
Run 7: Statistics of TaoVA-100x

Start at: 2017-08-12 15:49:03
End at: 2017-08-12 15:49:33

# Below is generated by plot.py at 2017-08-12 17:58:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.93 Mbit/s
95th percentile per-packet one-way delay: 63.575 ms
Loss rate: 13.64%
-- Flow 1:
Average throughput: 80.10 Mbit/s
95th percentile per-packet one-way delay: 63.587 ms
Loss rate: 18.82%
-- Flow 2:
Average throughput: 11.24 Mbit/s
95th percentile per-packet one-way delay: 63.491 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 80.04 Mbit/s
95th percentile per-packet one-way delay: 63.498 ms
Loss rate: 3.17%
```

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-08-12 16:00:01

End at: 2017-08-12 16:00:31

Below is generated by plot.py at 2017-08-12 17:58:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.43 Mbit/s

95th percentile per-packet one-way delay: 63.674 ms

Loss rate: 11.42%

-- Flow 1:

Average throughput: 94.00 Mbit/s

95th percentile per-packet one-way delay: 63.673 ms

Loss rate: 11.72%

-- Flow 2:

Average throughput: 6.94 Mbit/s

95th percentile per-packet one-way delay: 63.772 ms

Loss rate: 0.00%

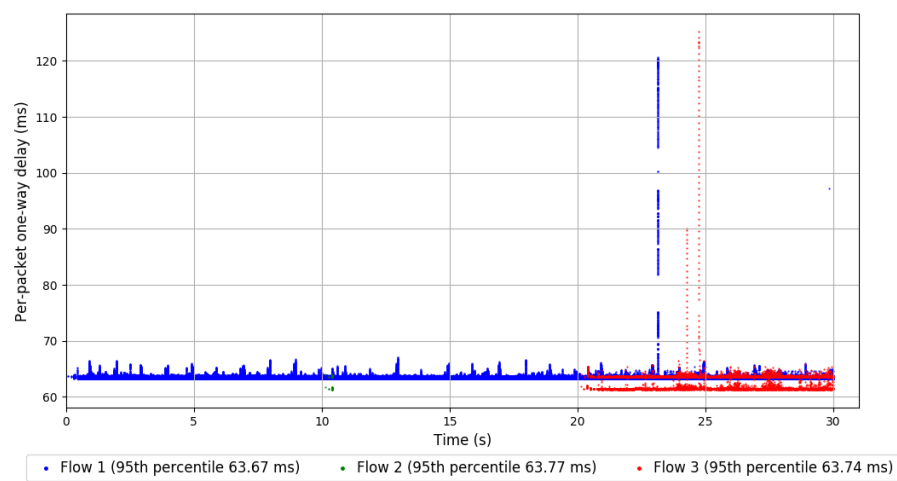
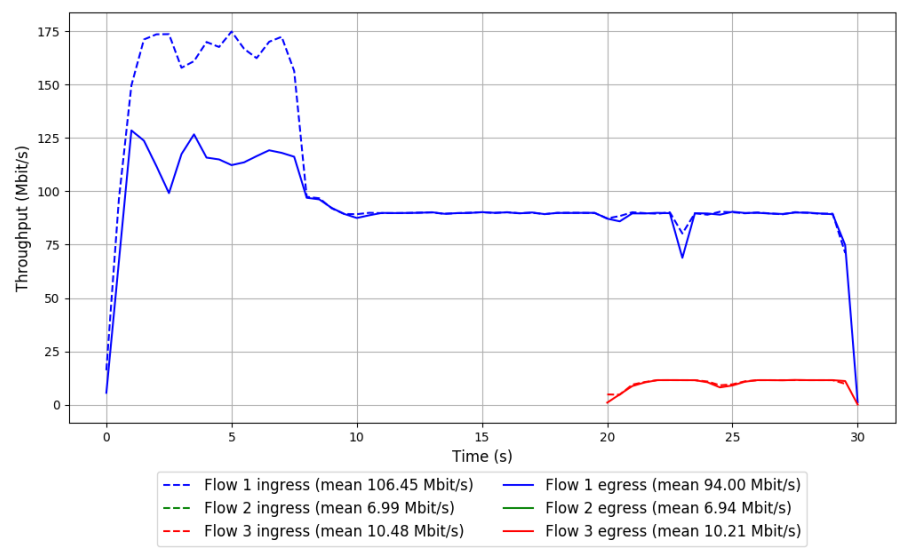
-- Flow 3:

Average throughput: 10.21 Mbit/s

95th percentile per-packet one-way delay: 63.738 ms

Loss rate: 2.49%

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

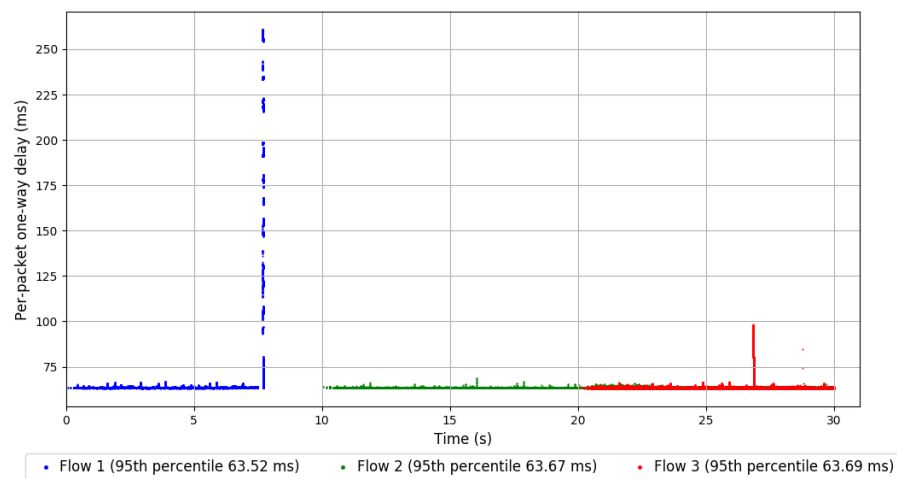
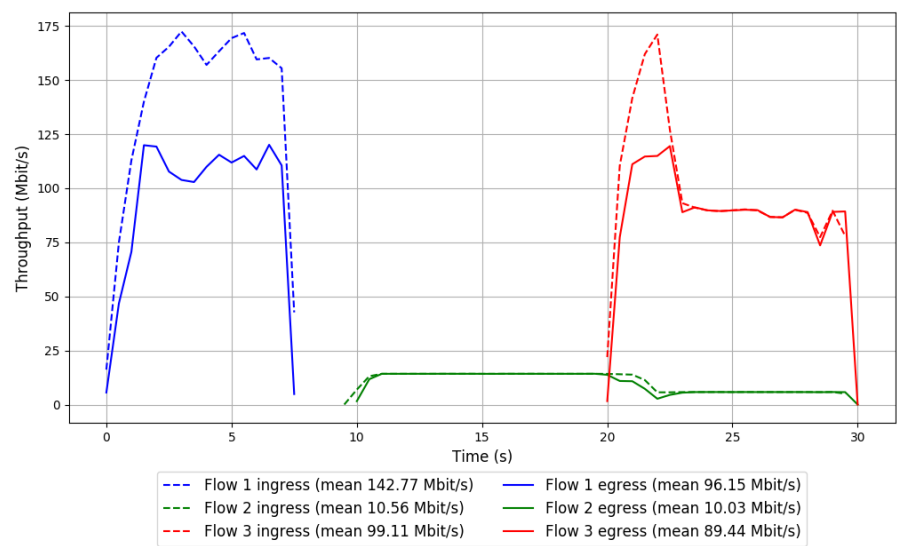


```
Run 9: Statistics of TaoVA-100x

Start at: 2017-08-12 16:11:16
End at: 2017-08-12 16:11:46

# Below is generated by plot.py at 2017-08-12 17:58:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 60.87 Mbit/s
95th percentile per-packet one-way delay: 63.666 ms
Loss rate: 20.27%
-- Flow 1:
Average throughput: 96.15 Mbit/s
95th percentile per-packet one-way delay: 63.522 ms
Loss rate: 32.66%
-- Flow 2:
Average throughput: 10.03 Mbit/s
95th percentile per-packet one-way delay: 63.674 ms
Loss rate: 5.01%
-- Flow 3:
Average throughput: 89.44 Mbit/s
95th percentile per-packet one-way delay: 63.685 ms
Loss rate: 9.76%
```

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

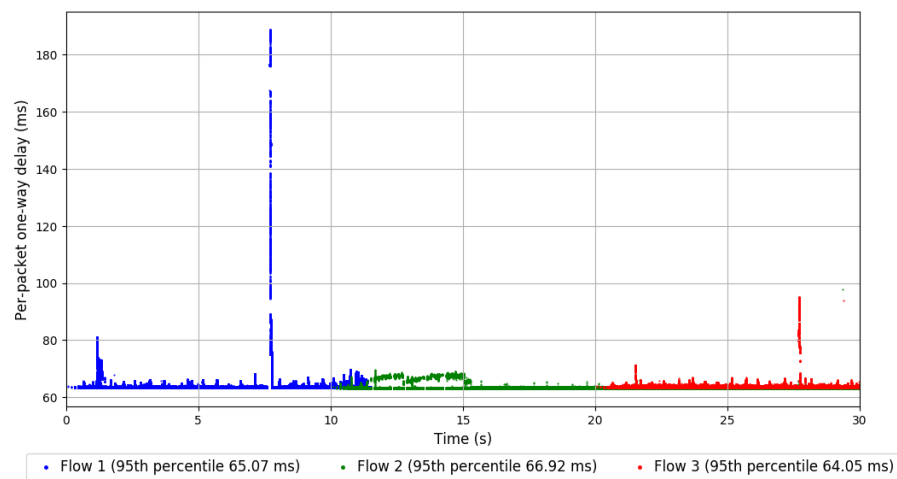
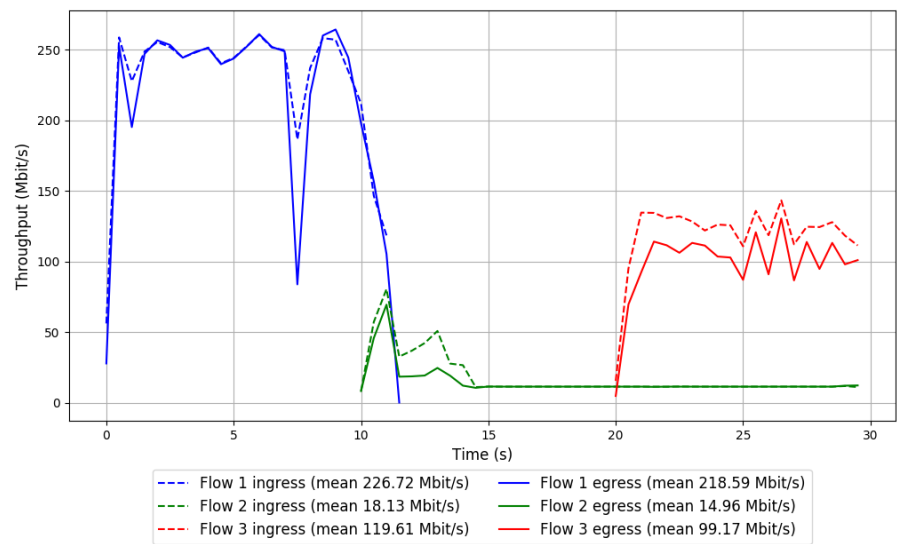


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-08-12 16:22:46
End at: 2017-08-12 16:23:16

# Below is generated by plot.py at 2017-08-12 17:59:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 126.47 Mbit/s
95th percentile per-packet one-way delay: 64.853 ms
Loss rate: 8.67%
-- Flow 1:
Average throughput: 218.59 Mbit/s
95th percentile per-packet one-way delay: 65.072 ms
Loss rate: 3.58%
-- Flow 2:
Average throughput: 14.96 Mbit/s
95th percentile per-packet one-way delay: 66.922 ms
Loss rate: 17.51%
-- Flow 3:
Average throughput: 99.17 Mbit/s
95th percentile per-packet one-way delay: 64.053 ms
Loss rate: 17.09%
```


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



Run 1: Statistics of TCP Vegas

Start at: 2017-08-12 14:34:04

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

Below is generated by plot.py at 2017-08-12 17:59:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 43.74 Mbit/s

95th percentile per-packet one-way delay: 64.214 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 39.97 Mbit/s

95th percentile per-packet one-way delay: 64.271 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 3.93 Mbit/s

95th percentile per-packet one-way delay: 63.766 ms

Loss rate: 1.47%

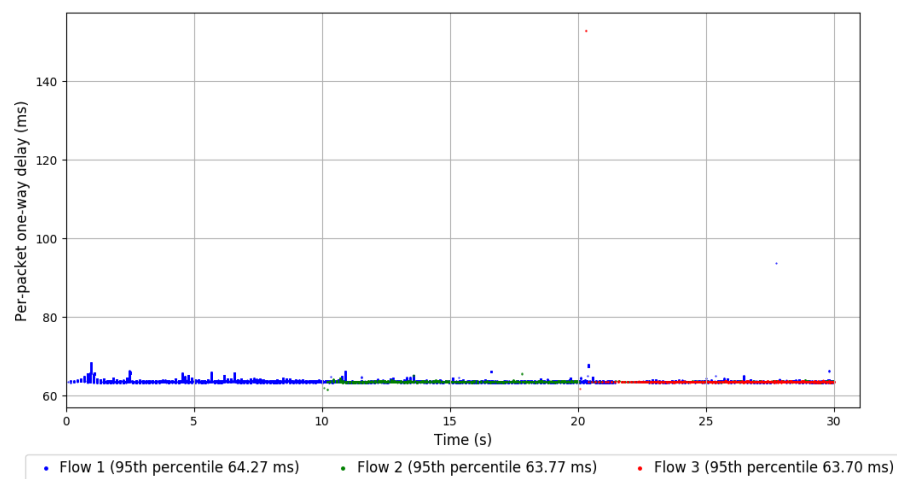
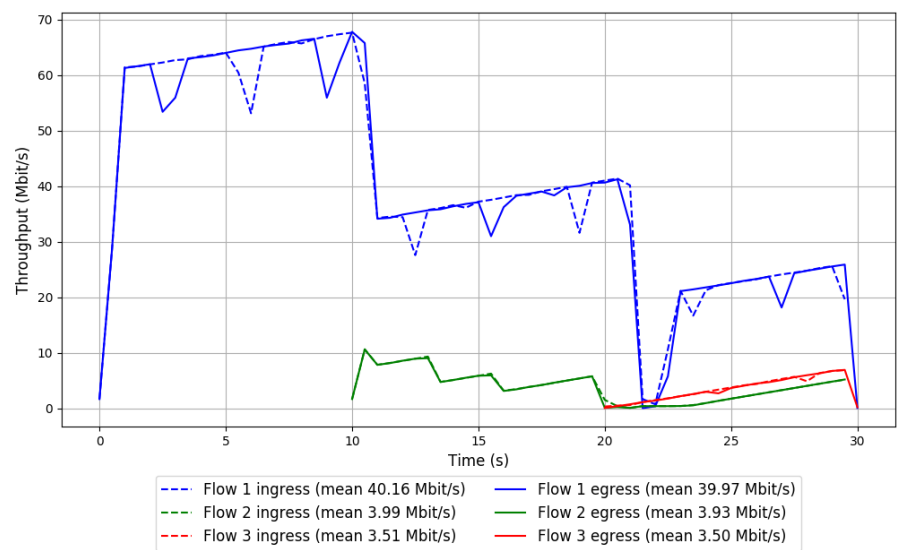
-- Flow 3:

Average throughput: 3.50 Mbit/s

95th percentile per-packet one-way delay: 63.695 ms

Loss rate: 0.31%

Run 1: Report of TCP Vegas — Data Link

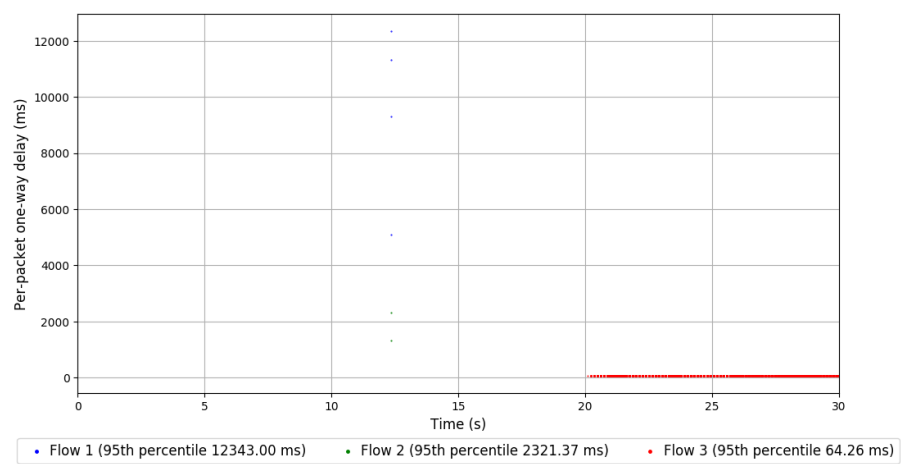
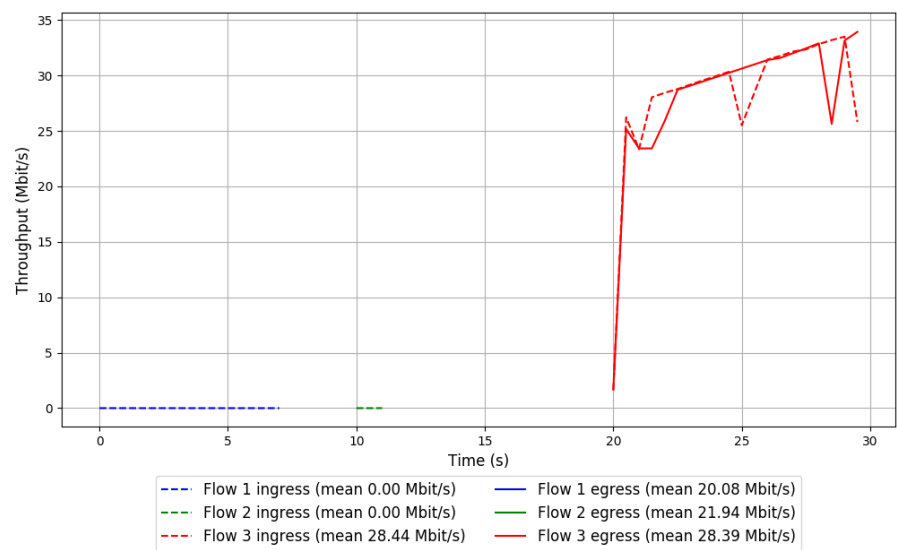


Run 2: Statistics of TCP Vegas

Start at: 2017-08-12 14:45:42

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

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-08-12 14:57:27

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

Below is generated by plot.py at 2017-08-12 17:59:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 36.92 Mbit/s

95th percentile per-packet one-way delay: 64.422 ms

Loss rate: 1.38%

-- Flow 1:

Average throughput: 9.69 Mbit/s

95th percentile per-packet one-way delay: 64.205 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 11.73 Mbit/s

95th percentile per-packet one-way delay: 64.024 ms

Loss rate: 1.32%

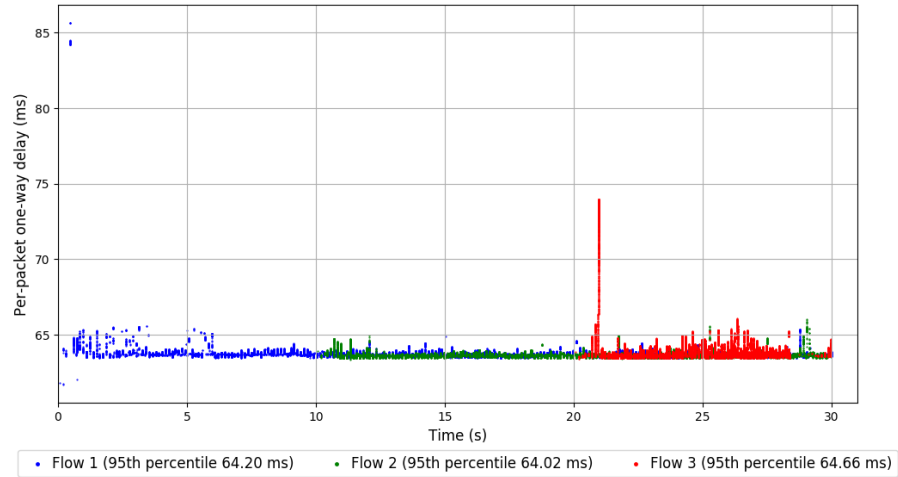
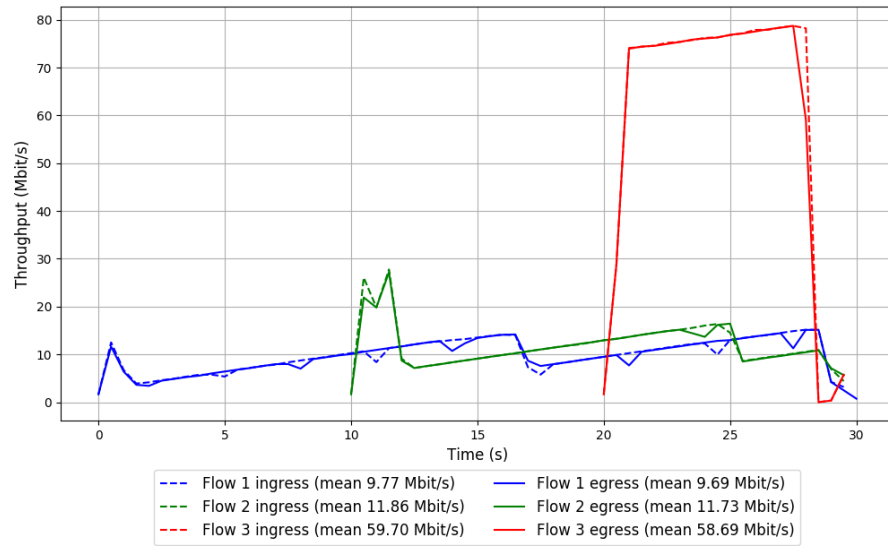
-- Flow 3:

Average throughput: 58.69 Mbit/s

95th percentile per-packet one-way delay: 64.663 ms

Loss rate: 1.68%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-08-12 15:09:21

End at: 2017-08-12 15:09:51

Below is generated by plot.py at 2017-08-12 17:59:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.81 Mbit/s

95th percentile per-packet one-way delay: 64.475 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 20.15 Mbit/s

95th percentile per-packet one-way delay: 64.168 ms

Loss rate: 1.28%

-- Flow 2:

Average throughput: 58.72 Mbit/s

95th percentile per-packet one-way delay: 64.765 ms

Loss rate: 0.75%

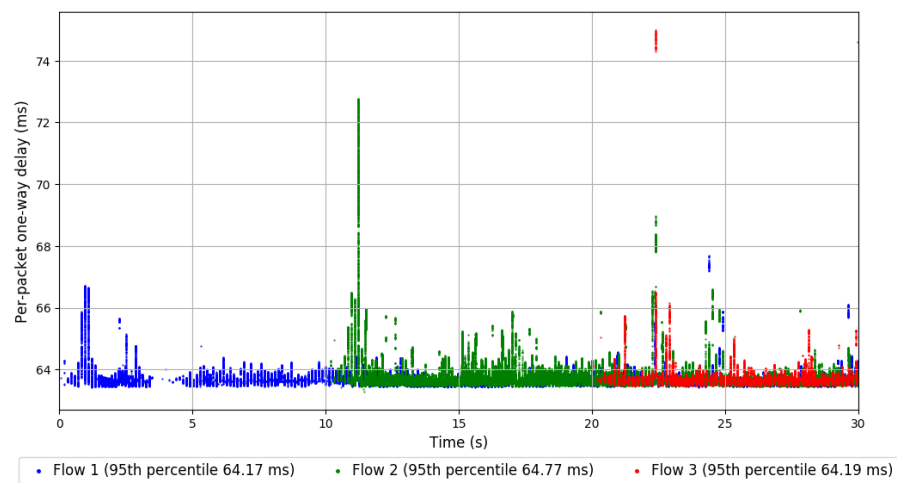
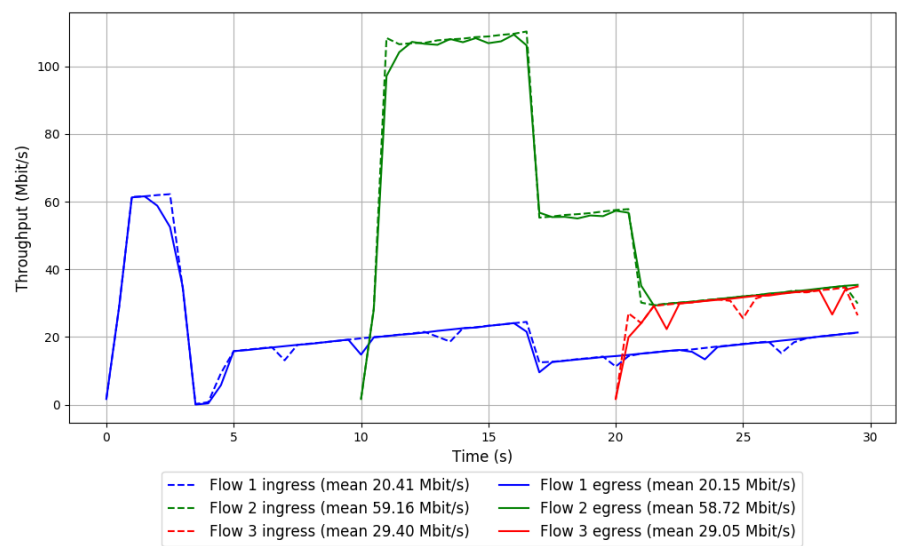
-- Flow 3:

Average throughput: 29.05 Mbit/s

95th percentile per-packet one-way delay: 64.189 ms

Loss rate: 1.20%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-08-12 15:21:13

End at: 2017-08-12 15:21:43

Below is generated by plot.py at 2017-08-12 17:59:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 56.92 Mbit/s

95th percentile per-packet one-way delay: 64.293 ms

Loss rate: 1.72%

-- Flow 1:

Average throughput: 35.36 Mbit/s

95th percentile per-packet one-way delay: 64.092 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 26.80 Mbit/s

95th percentile per-packet one-way delay: 64.302 ms

Loss rate: 1.14%

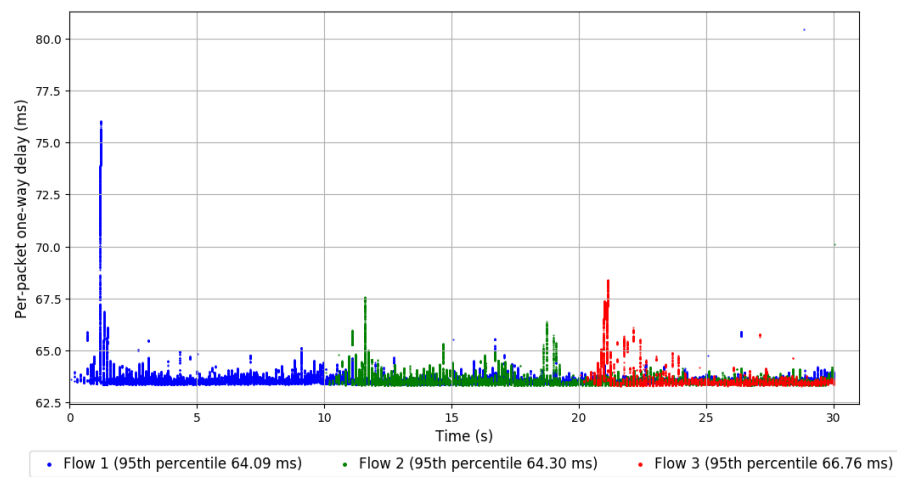
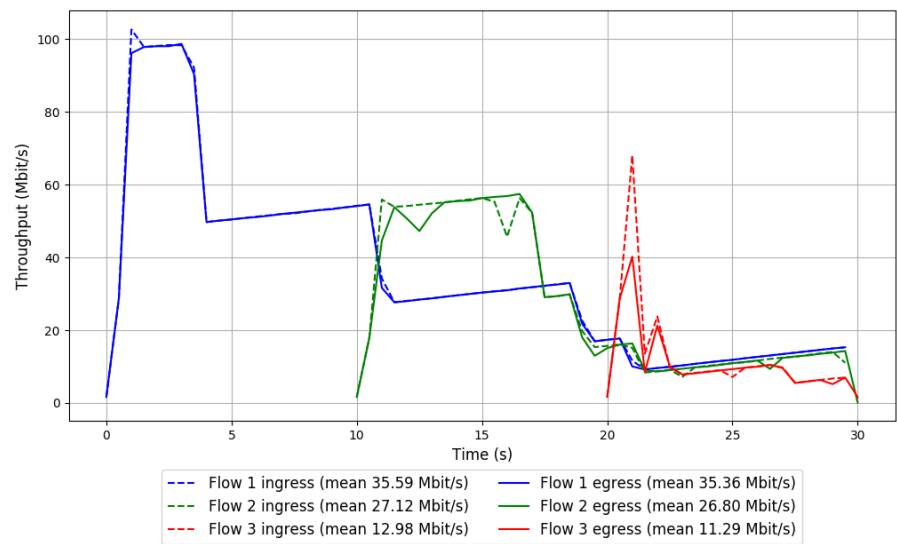
-- Flow 3:

Average throughput: 11.29 Mbit/s

95th percentile per-packet one-way delay: 66.758 ms

Loss rate: 13.01%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-08-12 15:32:55

End at: 2017-08-12 15:33:25

Below is generated by plot.py at 2017-08-12 17:59:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 43.69 Mbit/s

95th percentile per-packet one-way delay: 66.757 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 11.00 Mbit/s

95th percentile per-packet one-way delay: 64.123 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 30.58 Mbit/s

95th percentile per-packet one-way delay: 64.156 ms

Loss rate: 0.48%

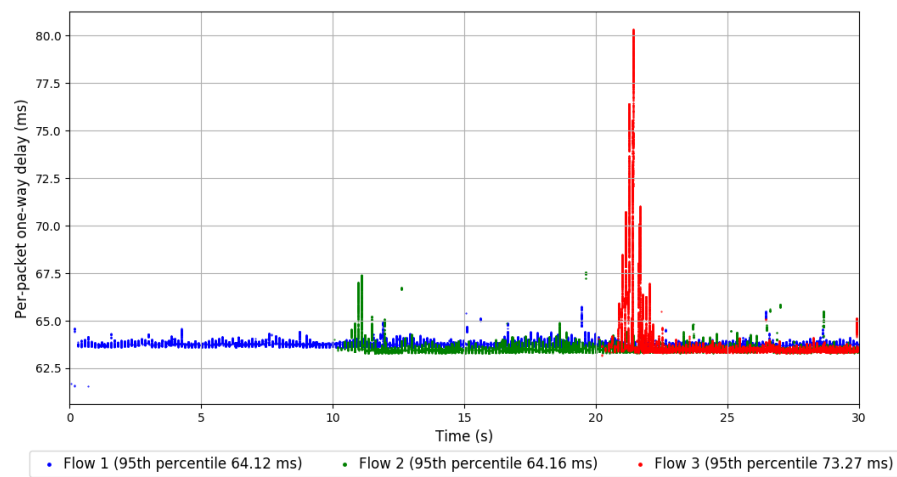
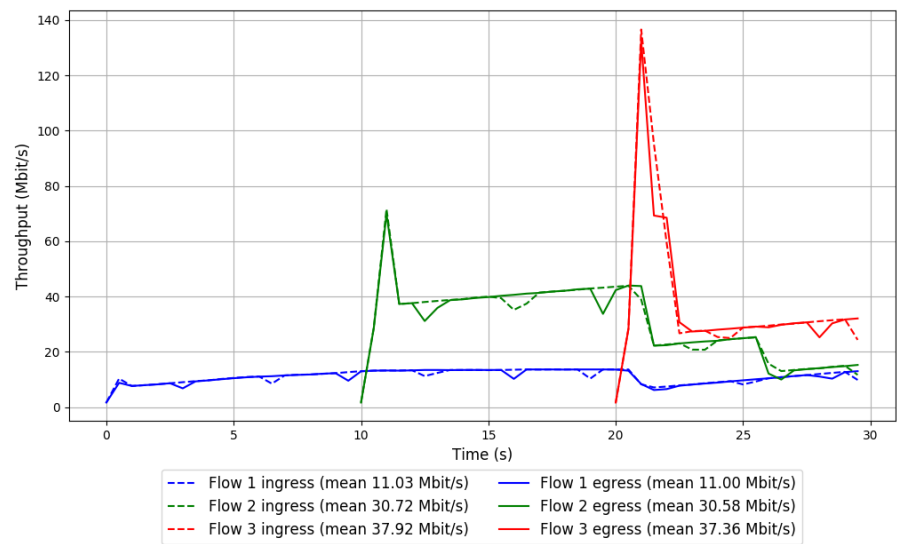
-- Flow 3:

Average throughput: 37.36 Mbit/s

95th percentile per-packet one-way delay: 73.271 ms

Loss rate: 1.48%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-08-12 15:44:37

End at: 2017-08-12 15:45:07

Below is generated by plot.py at 2017-08-12 17:59:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.72 Mbit/s

95th percentile per-packet one-way delay: 63.803 ms

Loss rate: 3.55%

-- Flow 1:

Average throughput: 3.93 Mbit/s

95th percentile per-packet one-way delay: 63.829 ms

Loss rate: 3.54%

-- Flow 2:

Average throughput: 3.59 Mbit/s

95th percentile per-packet one-way delay: 63.792 ms

Loss rate: 3.27%

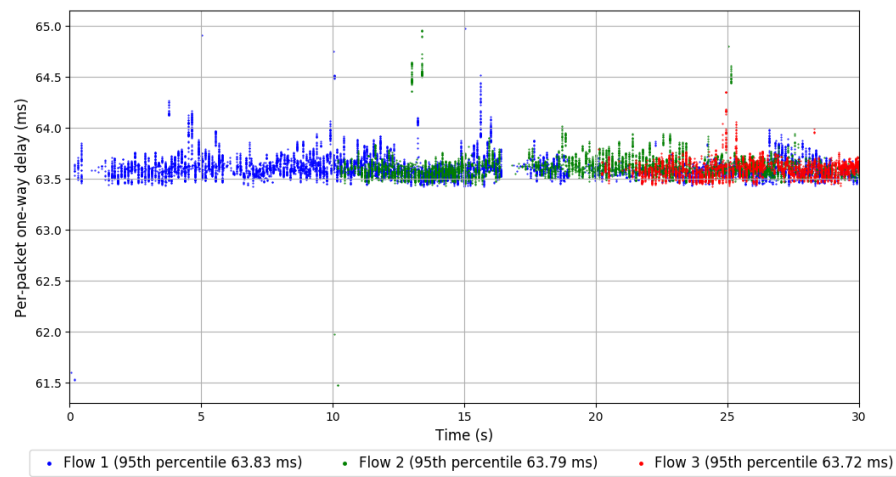
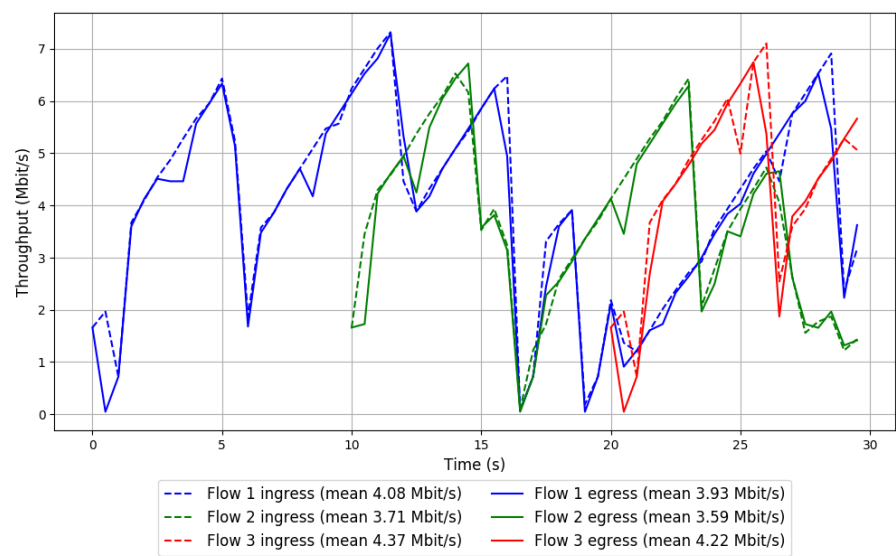
-- Flow 3:

Average throughput: 4.22 Mbit/s

95th percentile per-packet one-way delay: 63.715 ms

Loss rate: 4.05%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-08-12 15:55:29

End at: 2017-08-12 15:55:59

Below is generated by plot.py at 2017-08-12 17:59:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 9.03 Mbit/s

95th percentile per-packet one-way delay: 63.850 ms

Loss rate: 2.85%

-- Flow 1:

Average throughput: 4.59 Mbit/s

95th percentile per-packet one-way delay: 63.860 ms

Loss rate: 2.33%

-- Flow 2:

Average throughput: 4.59 Mbit/s

95th percentile per-packet one-way delay: 63.795 ms

Loss rate: 3.57%

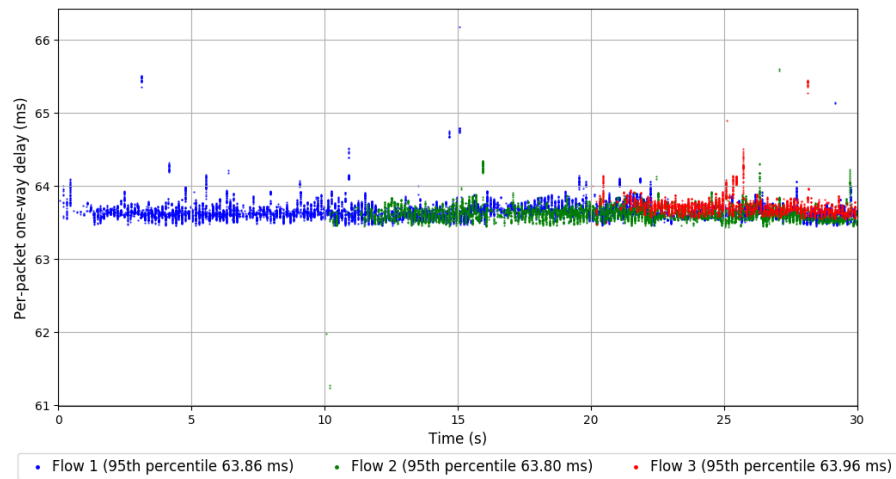
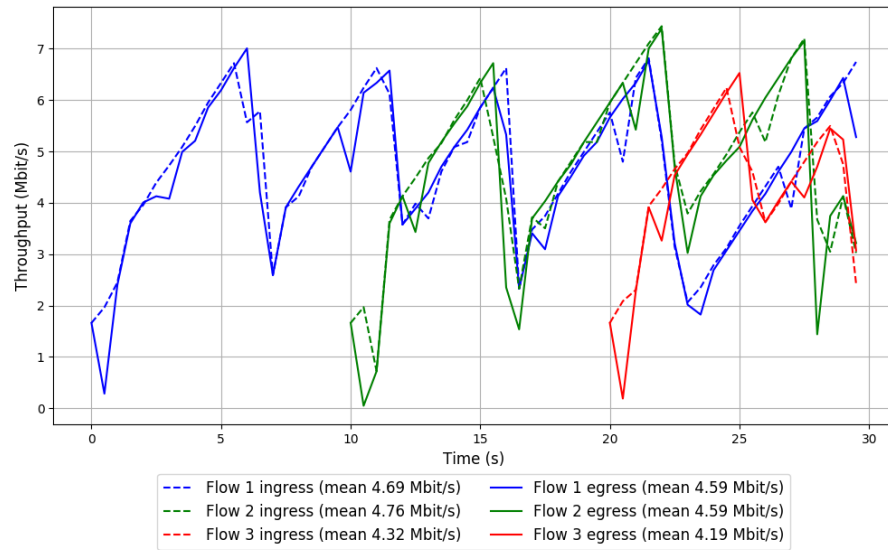
-- Flow 3:

Average throughput: 4.19 Mbit/s

95th percentile per-packet one-way delay: 63.958 ms

Loss rate: 2.97%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-08-12 16:06:43

End at: 2017-08-12 16:07:13

Below is generated by plot.py at 2017-08-12 17:59:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.47 Mbit/s

95th percentile per-packet one-way delay: 63.846 ms

Loss rate: 3.32%

-- Flow 1:

Average throughput: 4.29 Mbit/s

95th percentile per-packet one-way delay: 64.104 ms

Loss rate: 2.95%

-- Flow 2:

Average throughput: 4.01 Mbit/s

95th percentile per-packet one-way delay: 63.597 ms

Loss rate: 3.62%

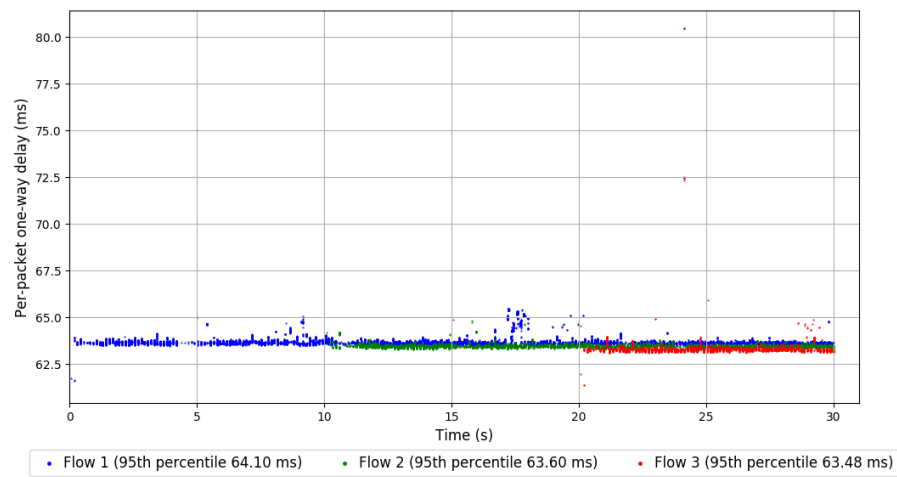
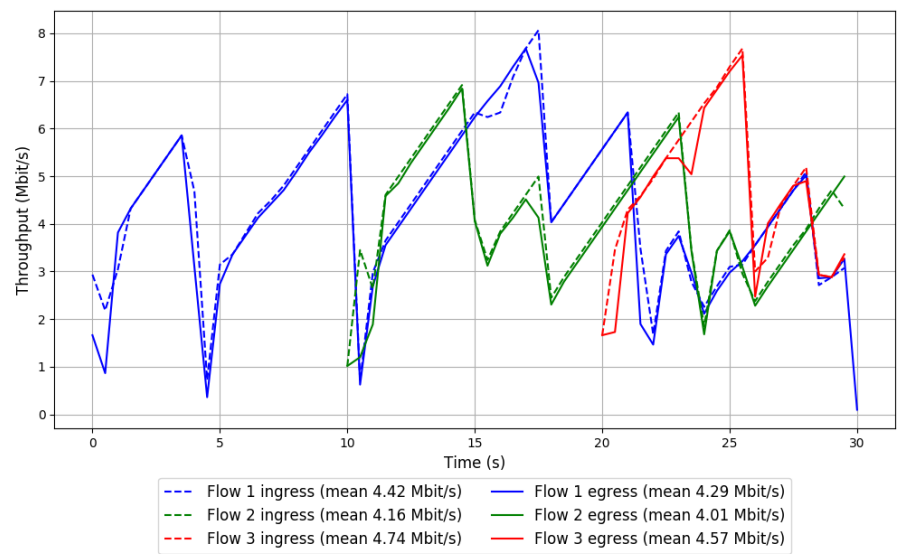
-- Flow 3:

Average throughput: 4.57 Mbit/s

95th percentile per-packet one-way delay: 63.480 ms

Loss rate: 3.84%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-08-12 16:18:07

End at: 2017-08-12 16:18:37

Below is generated by plot.py at 2017-08-12 17:59:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 23.87 Mbit/s

95th percentile per-packet one-way delay: 64.220 ms

Loss rate: 1.53%

-- Flow 1:

Average throughput: 16.70 Mbit/s

95th percentile per-packet one-way delay: 4857.998 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 22.21 Mbit/s

95th percentile per-packet one-way delay: 64.060 ms

Loss rate: 0.82%

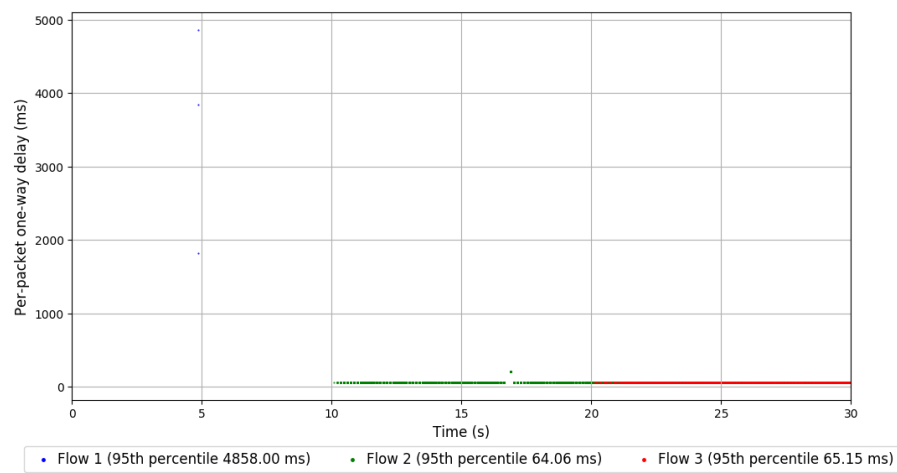
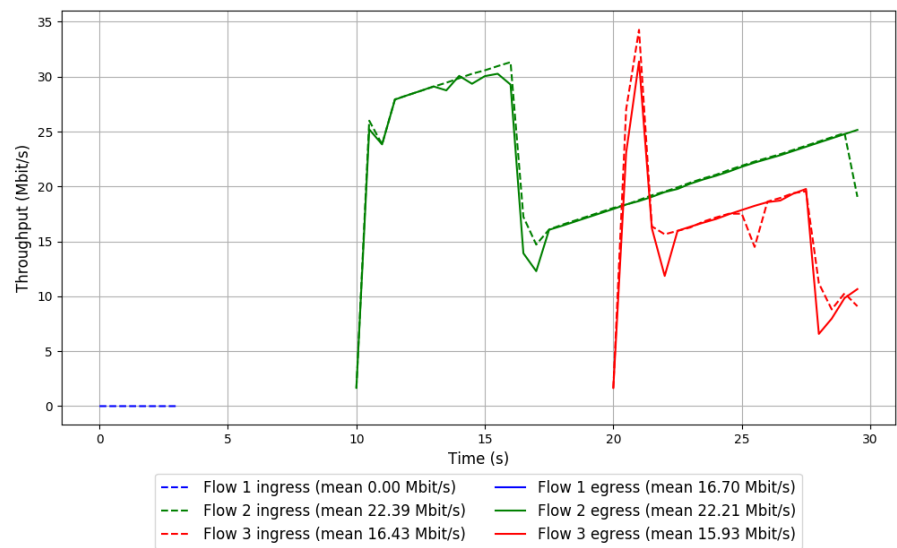
-- Flow 3:

Average throughput: 15.93 Mbit/s

95th percentile per-packet one-way delay: 65.146 ms

Loss rate: 3.48%

Run 10: Report of TCP Vegas — Data Link

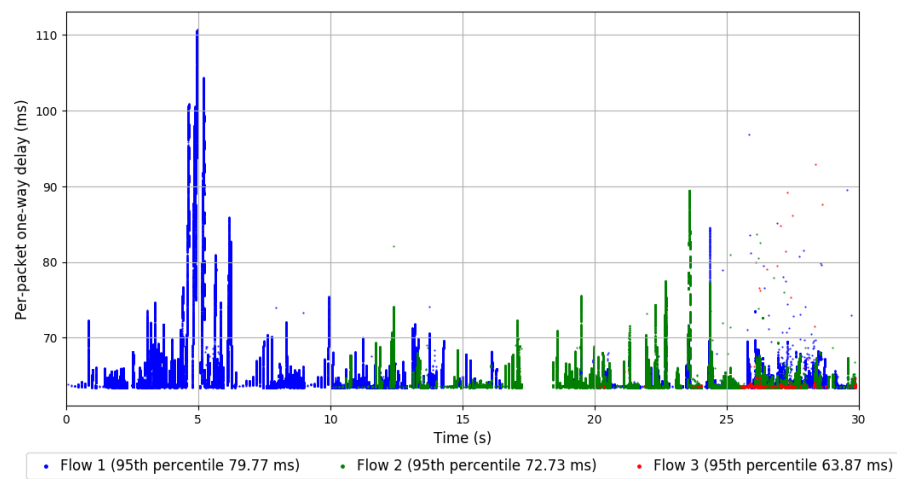
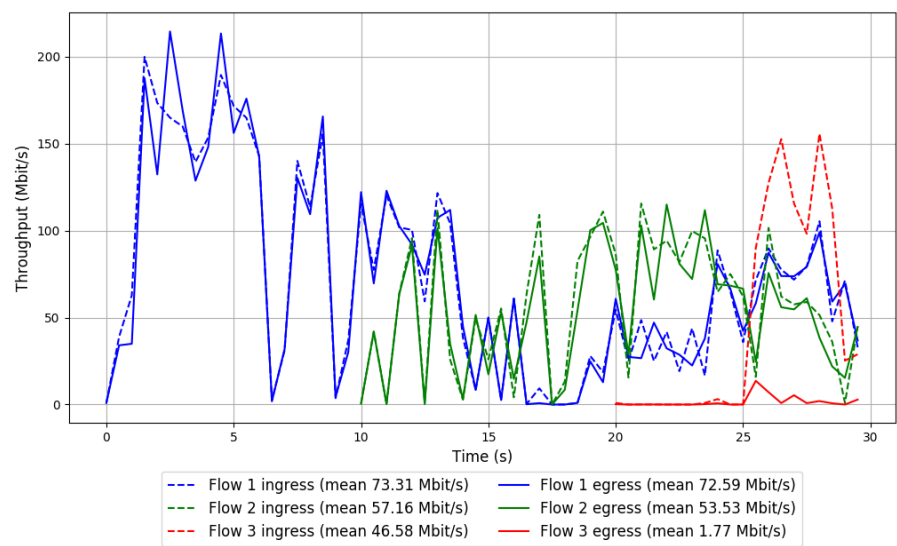


```
Run 1: Statistics of Verus

Start at: 2017-08-12 14:41:06
End at: 2017-08-12 14:41:36

# Below is generated by plot.py at 2017-08-12 18:00:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 108.70 Mbit/s
95th percentile per-packet one-way delay: 76.117 ms
Loss rate: 14.12%
-- Flow 1:
Average throughput: 72.59 Mbit/s
95th percentile per-packet one-way delay: 79.773 ms
Loss rate: 1.02%
-- Flow 2:
Average throughput: 53.53 Mbit/s
95th percentile per-packet one-way delay: 72.728 ms
Loss rate: 6.37%
-- Flow 3:
Average throughput: 1.77 Mbit/s
95th percentile per-packet one-way delay: 63.866 ms
Loss rate: 96.21%
```

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-08-12 14:52:44

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

Below is generated by plot.py at 2017-08-12 18:00:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 123.01 Mbit/s

95th percentile per-packet one-way delay: 85.979 ms

Loss rate: 5.30%

-- Flow 1:

Average throughput: 67.60 Mbit/s

95th percentile per-packet one-way delay: 74.361 ms

Loss rate: 3.51%

-- Flow 2:

Average throughput: 54.98 Mbit/s

95th percentile per-packet one-way delay: 203.400 ms

Loss rate: 4.32%

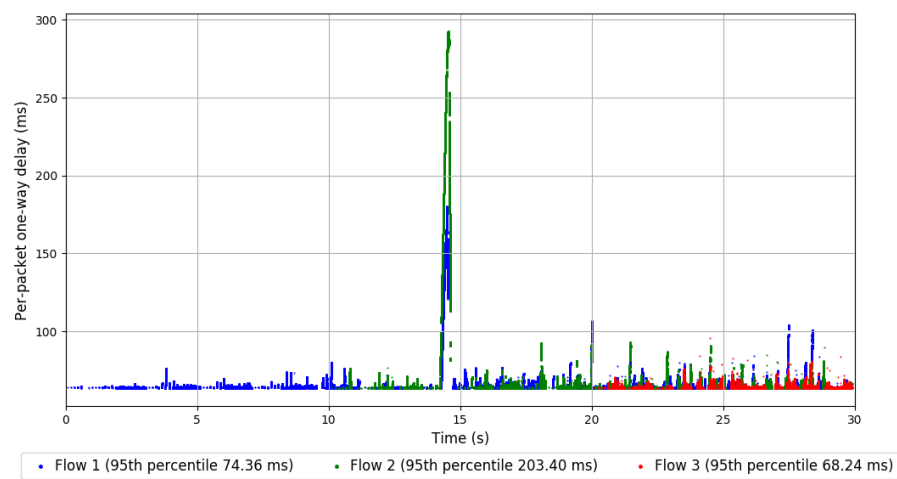
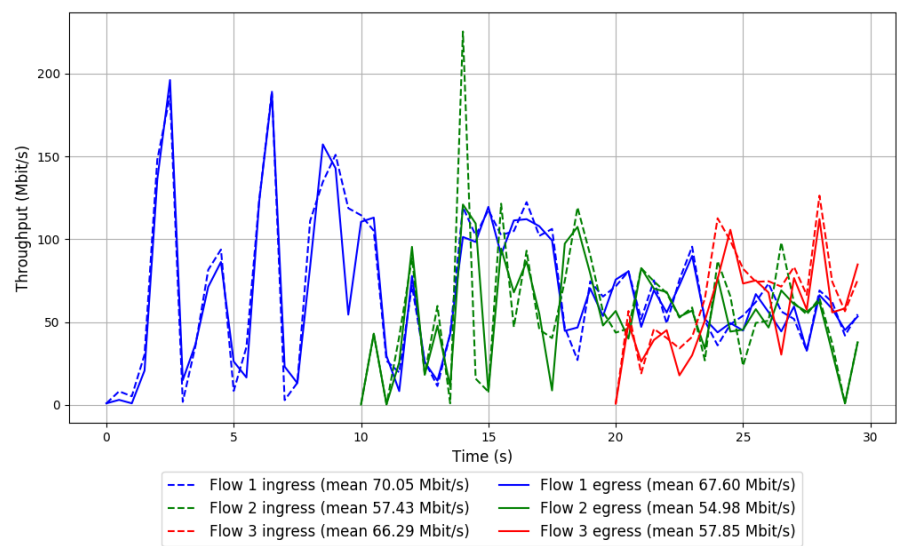
-- Flow 3:

Average throughput: 57.85 Mbit/s

95th percentile per-packet one-way delay: 68.241 ms

Loss rate: 12.79%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-08-12 15:04:42

End at: 2017-08-12 15:05:12

Below is generated by plot.py at 2017-08-12 18:00:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.95 Mbit/s

95th percentile per-packet one-way delay: 71.124 ms

Loss rate: 32.62%

-- Flow 1:

Average throughput: 65.46 Mbit/s

95th percentile per-packet one-way delay: 72.636 ms

Loss rate: 6.49%

-- Flow 2:

Average throughput: 3.31 Mbit/s

95th percentile per-packet one-way delay: 64.287 ms

Loss rate: 94.18%

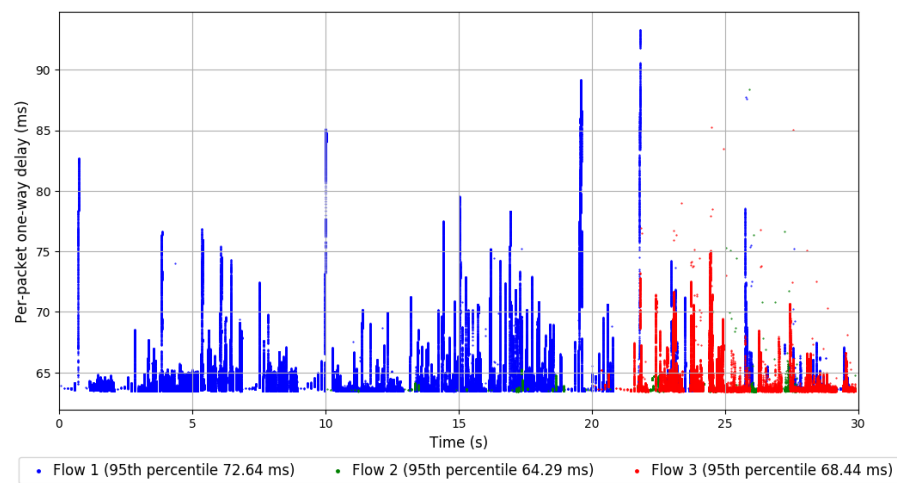
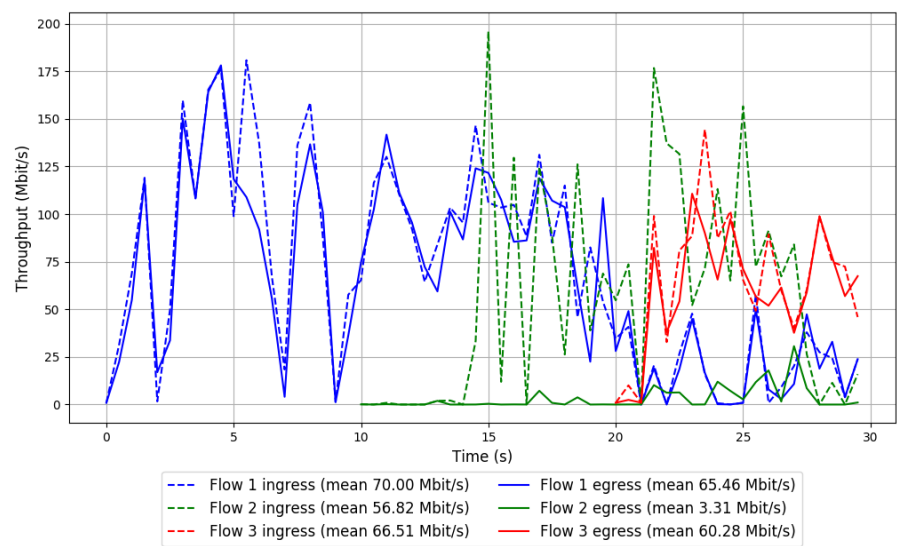
-- Flow 3:

Average throughput: 60.28 Mbit/s

95th percentile per-packet one-way delay: 68.439 ms

Loss rate: 9.38%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-08-12 15:16:29

End at: 2017-08-12 15:16:59

Below is generated by plot.py at 2017-08-12 18:00:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 155.61 Mbit/s

95th percentile per-packet one-way delay: 96.681 ms

Loss rate: 4.32%

-- Flow 1:

Average throughput: 99.29 Mbit/s

95th percentile per-packet one-way delay: 114.144 ms

Loss rate: 6.01%

-- Flow 2:

Average throughput: 74.11 Mbit/s

95th percentile per-packet one-way delay: 75.122 ms

Loss rate: 1.24%

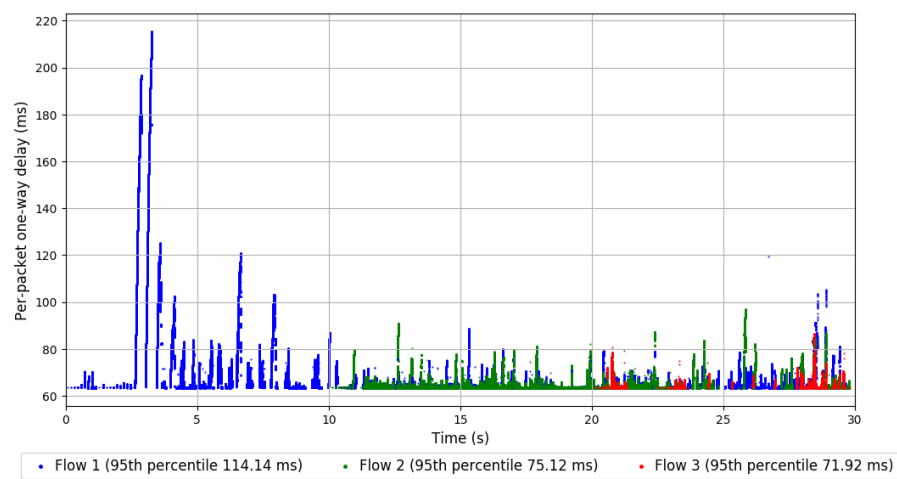
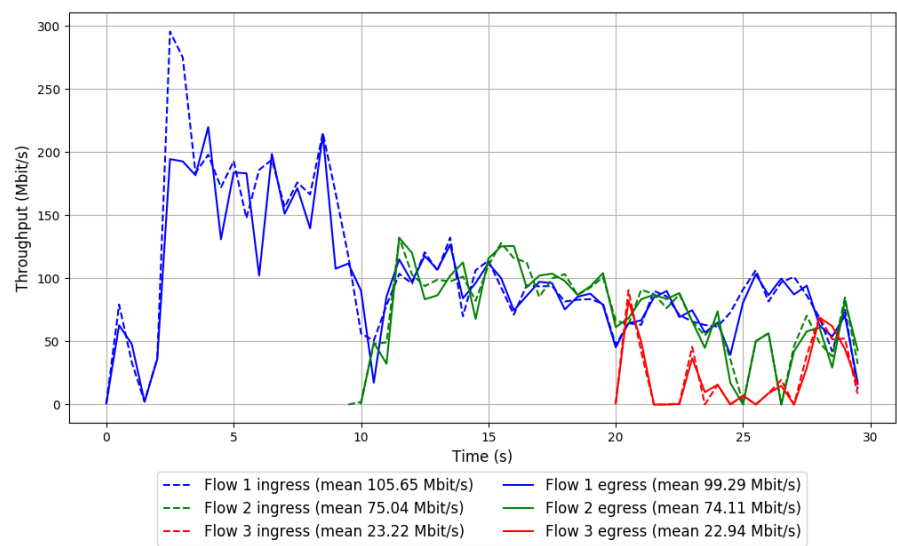
-- Flow 3:

Average throughput: 22.94 Mbit/s

95th percentile per-packet one-way delay: 71.925 ms

Loss rate: 1.22%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-08-12 15:28:12

End at: 2017-08-12 15:28:42

Below is generated by plot.py at 2017-08-12 18:00:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.21 Mbit/s

95th percentile per-packet one-way delay: 68.076 ms

Loss rate: 25.24%

-- Flow 1:

Average throughput: 62.84 Mbit/s

95th percentile per-packet one-way delay: 68.991 ms

Loss rate: 20.07%

-- Flow 2:

Average throughput: 2.58 Mbit/s

95th percentile per-packet one-way delay: 64.440 ms

Loss rate: 88.47%

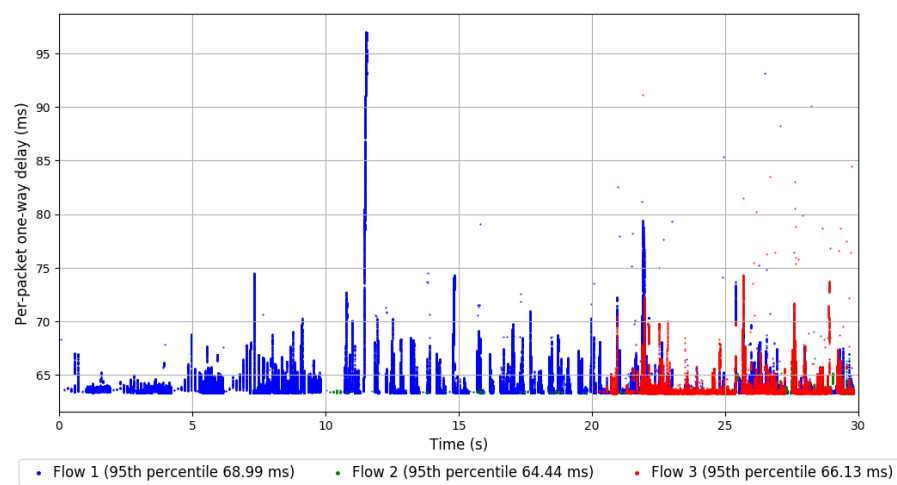
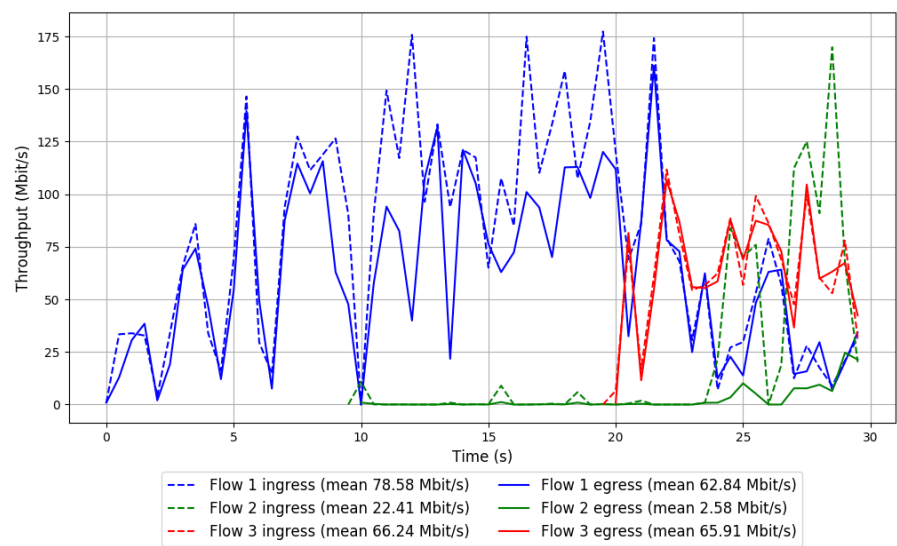
-- Flow 3:

Average throughput: 65.91 Mbit/s

95th percentile per-packet one-way delay: 66.131 ms

Loss rate: 0.61%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-08-12 15:39:59

End at: 2017-08-12 15:40:29

Below is generated by plot.py at 2017-08-12 18:01:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 45.23 Mbit/s

95th percentile per-packet one-way delay: 68.154 ms

Loss rate: 76.03%

-- Flow 1:

Average throughput: 15.88 Mbit/s

95th percentile per-packet one-way delay: 67.473 ms

Loss rate: 89.87%

-- Flow 2:

Average throughput: 27.20 Mbit/s

95th percentile per-packet one-way delay: 69.198 ms

Loss rate: 12.24%

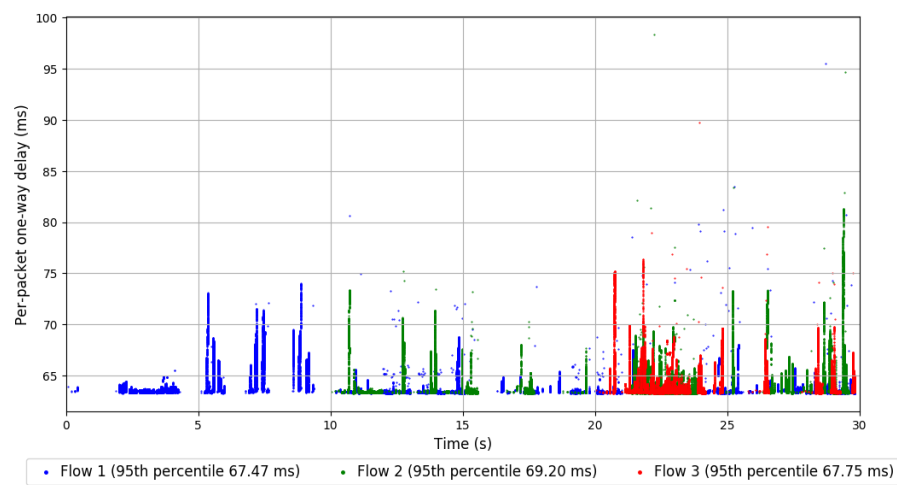
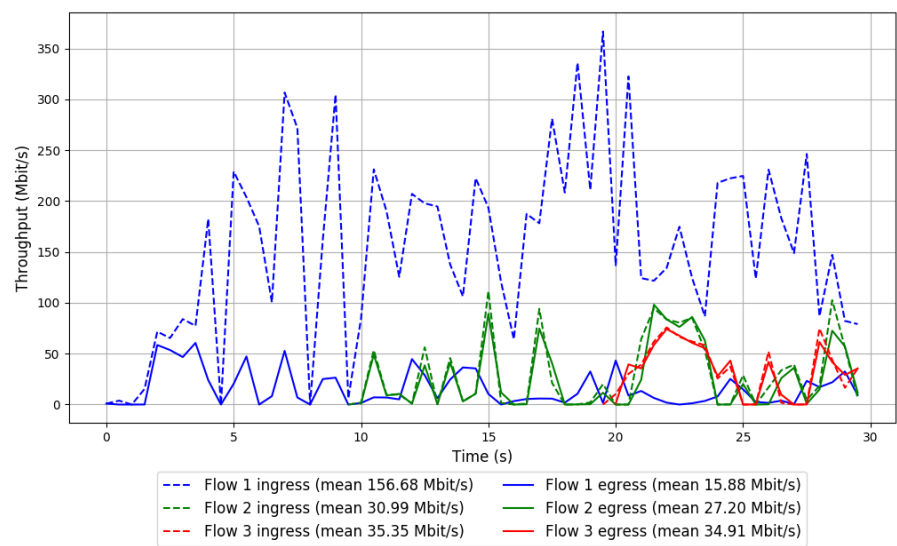
-- Flow 3:

Average throughput: 34.91 Mbit/s

95th percentile per-packet one-way delay: 67.750 ms

Loss rate: 1.25%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-08-12 15:51:16

End at: 2017-08-12 15:51:46

Below is generated by plot.py at 2017-08-12 18:01:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.42 Mbit/s

95th percentile per-packet one-way delay: 76.803 ms

Loss rate: 15.20%

-- Flow 1:

Average throughput: 50.11 Mbit/s

95th percentile per-packet one-way delay: 99.303 ms

Loss rate: 2.87%

-- Flow 2:

Average throughput: 55.61 Mbit/s

95th percentile per-packet one-way delay: 68.765 ms

Loss rate: 6.92%

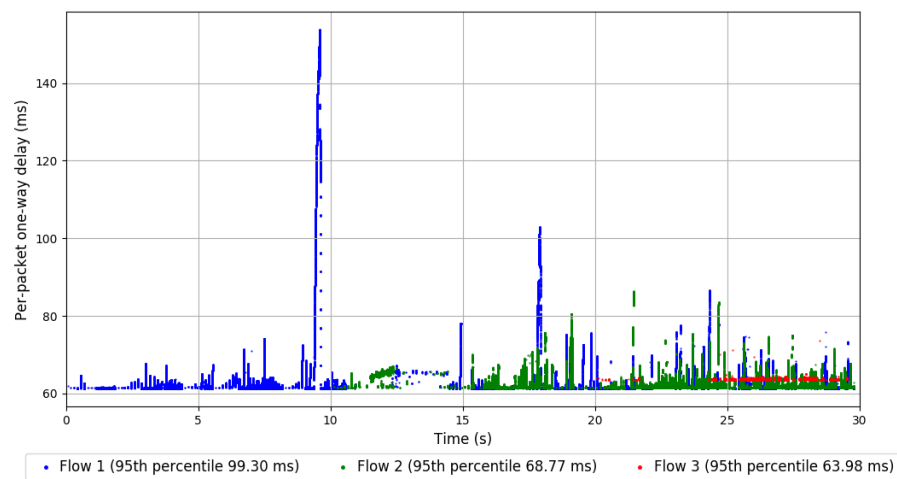
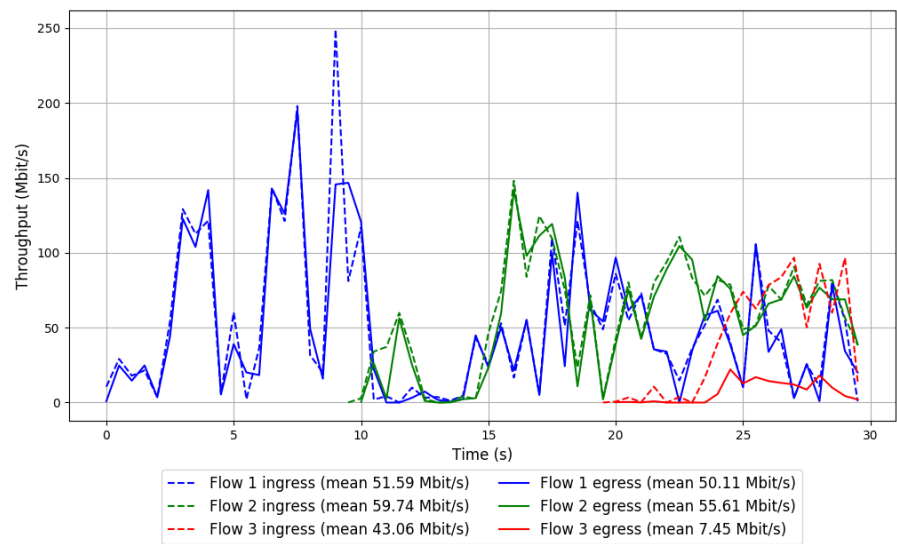
-- Flow 3:

Average throughput: 7.45 Mbit/s

95th percentile per-packet one-way delay: 63.983 ms

Loss rate: 83.20%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-08-12 16:02:18

End at: 2017-08-12 16:02:48

Below is generated by plot.py at 2017-08-12 18:01:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 52.53 Mbit/s

95th percentile per-packet one-way delay: 66.988 ms

Loss rate: 67.94%

-- Flow 1:

Average throughput: 5.48 Mbit/s

95th percentile per-packet one-way delay: 64.254 ms

Loss rate: 95.28%

-- Flow 2:

Average throughput: 53.14 Mbit/s

95th percentile per-packet one-way delay: 68.619 ms

Loss rate: 0.33%

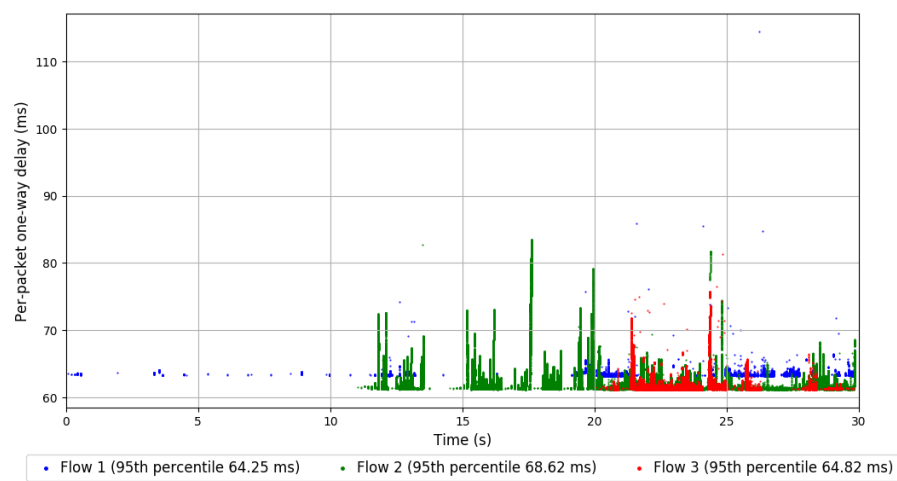
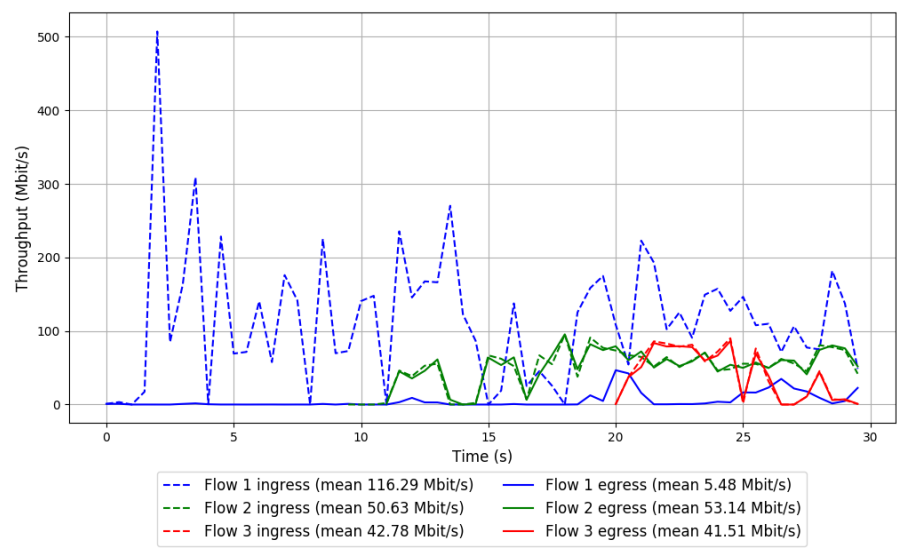
-- Flow 3:

Average throughput: 41.51 Mbit/s

95th percentile per-packet one-way delay: 64.824 ms

Loss rate: 2.97%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-08-12 16:13:29

End at: 2017-08-12 16:13:59

Below is generated by plot.py at 2017-08-12 18:01:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 60.42 Mbit/s

95th percentile per-packet one-way delay: 76.311 ms

Loss rate: 59.36%

-- Flow 1:

Average throughput: 8.72 Mbit/s

95th percentile per-packet one-way delay: 64.501 ms

Loss rate: 90.66%

-- Flow 2:

Average throughput: 57.88 Mbit/s

95th percentile per-packet one-way delay: 82.954 ms

Loss rate: 0.84%

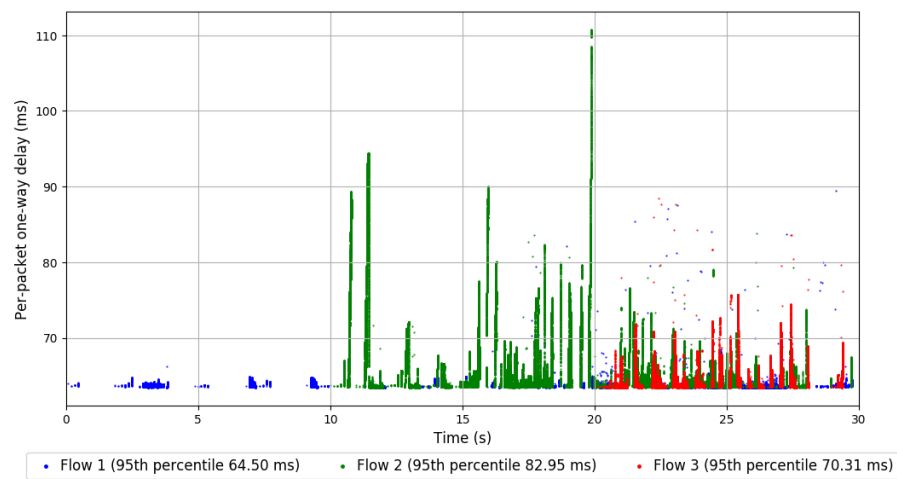
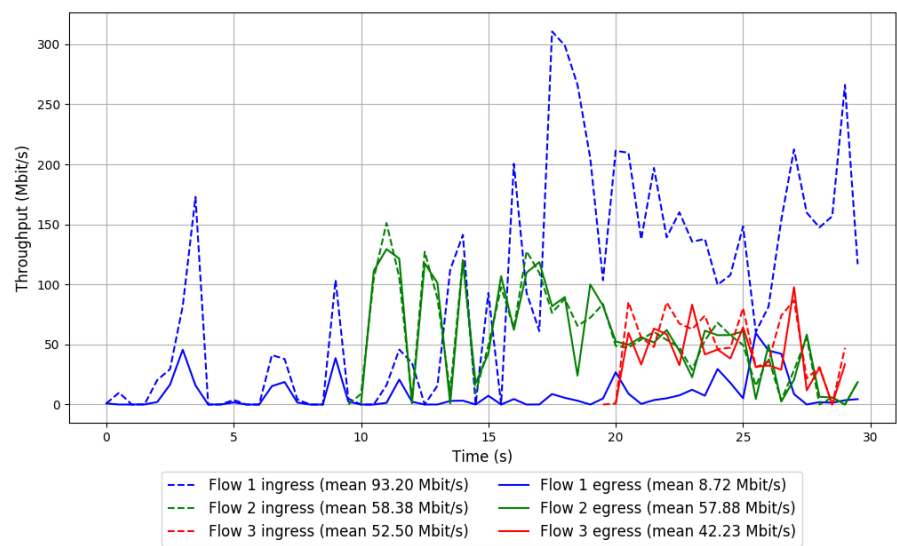
-- Flow 3:

Average throughput: 42.23 Mbit/s

95th percentile per-packet one-way delay: 70.309 ms

Loss rate: 19.57%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-08-12 16:25:07

End at: 2017-08-12 16:25:37

Below is generated by plot.py at 2017-08-12 18:01:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 51.33 Mbit/s

95th percentile per-packet one-way delay: 69.959 ms

Loss rate: 51.57%

-- Flow 1:

Average throughput: 3.42 Mbit/s

95th percentile per-packet one-way delay: 63.876 ms

Loss rate: 93.82%

-- Flow 2:

Average throughput: 72.37 Mbit/s

95th percentile per-packet one-way delay: 70.229 ms

Loss rate: 0.30%

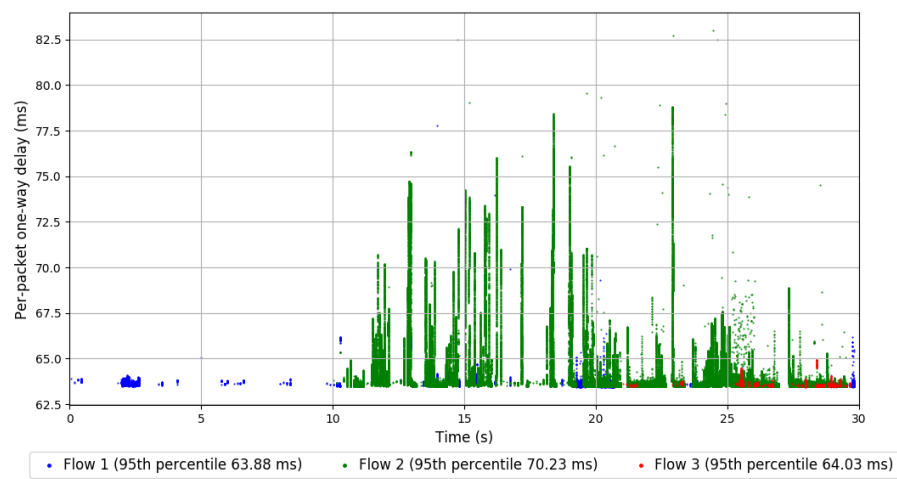
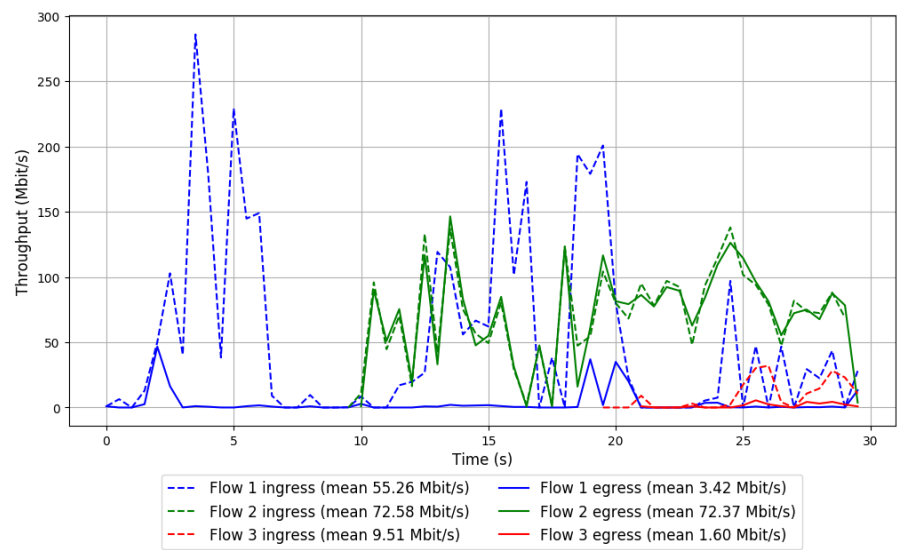
-- Flow 3:

Average throughput: 1.60 Mbit/s

95th percentile per-packet one-way delay: 64.034 ms

Loss rate: 85.17%

Run 10: Report of Verus — Data Link

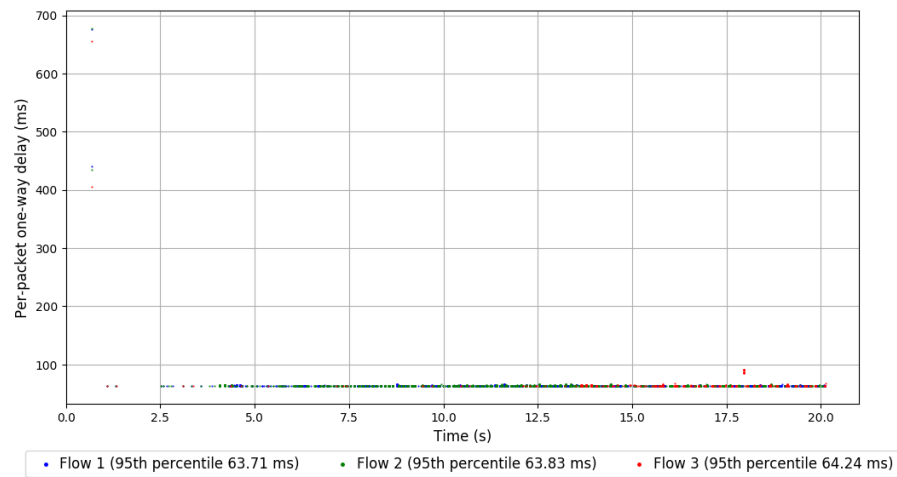
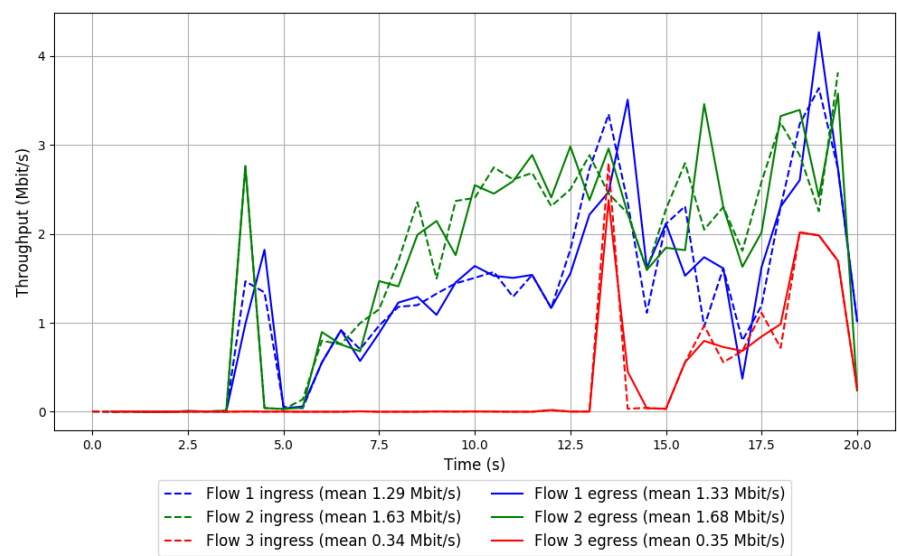


Run 1: Statistics of WebRTC media

Start at: 2017-08-12 14:41:56

End at: 2017-08-12 14:42:26

Run 1: Report of WebRTC media — Data Link

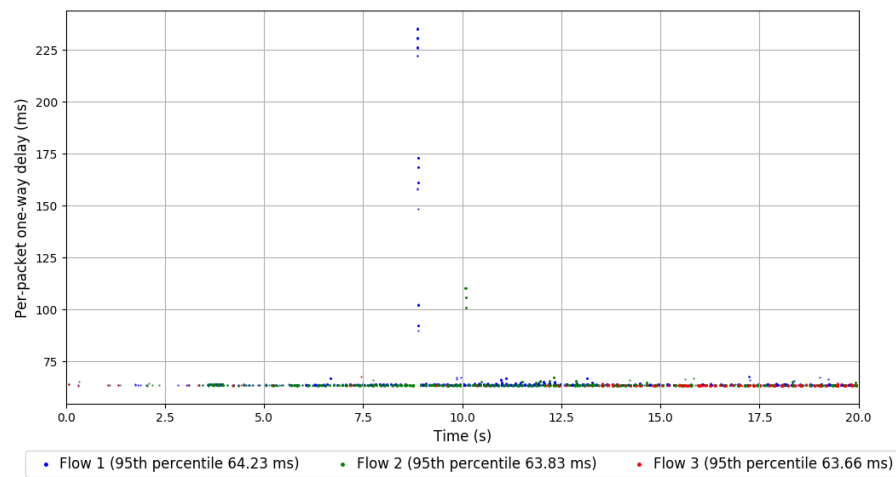
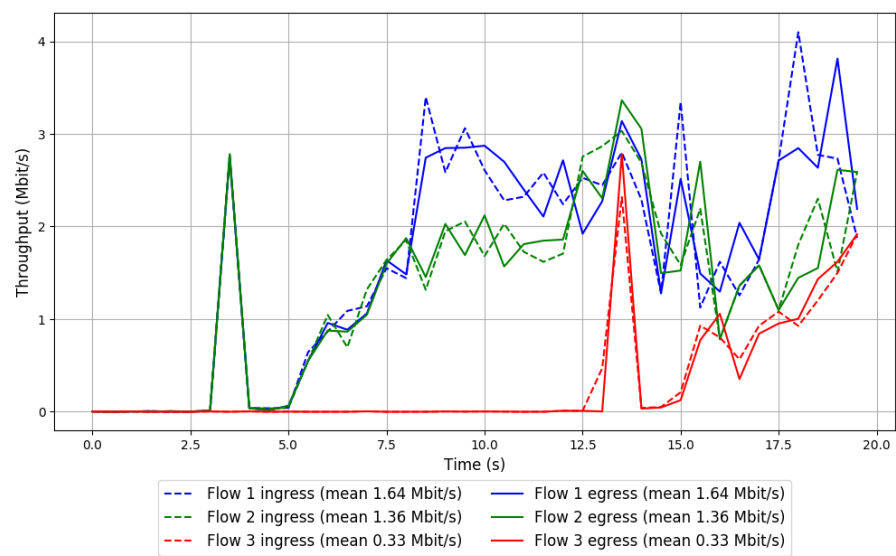


Run 2: Statistics of WebRTC media

Start at: 2017-08-12 14:53:35

End at: 2017-08-12 14:54:05

Run 2: Report of WebRTC media — Data Link

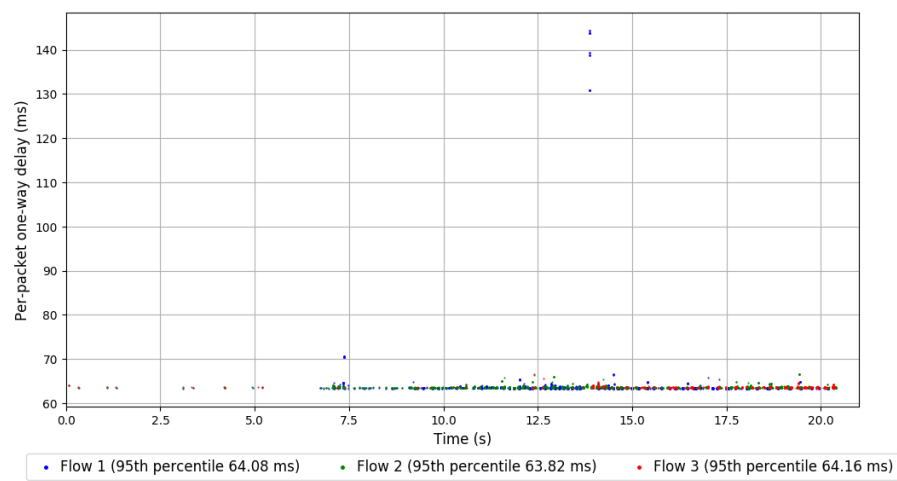
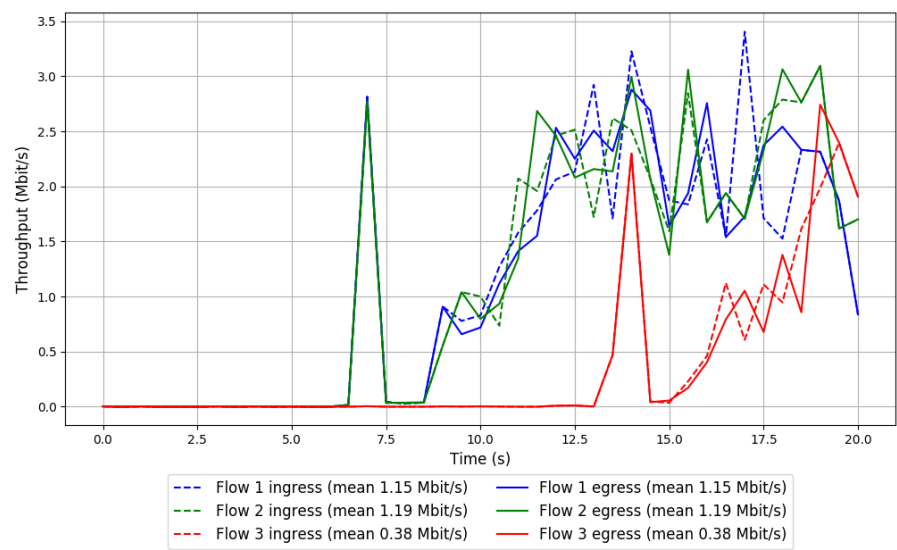


Run 3: Statistics of WebRTC media

Start at: 2017-08-12 15:05:31

End at: 2017-08-12 15:06:01

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-08-12 15:17:22

End at: 2017-08-12 15:17:52

Below is generated by plot.py at 2017-08-12 18:01:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.63 Mbit/s

95th percentile per-packet one-way delay: 63.872 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 172.099 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.84 Mbit/s

95th percentile per-packet one-way delay: 63.752 ms

Loss rate: 0.00%

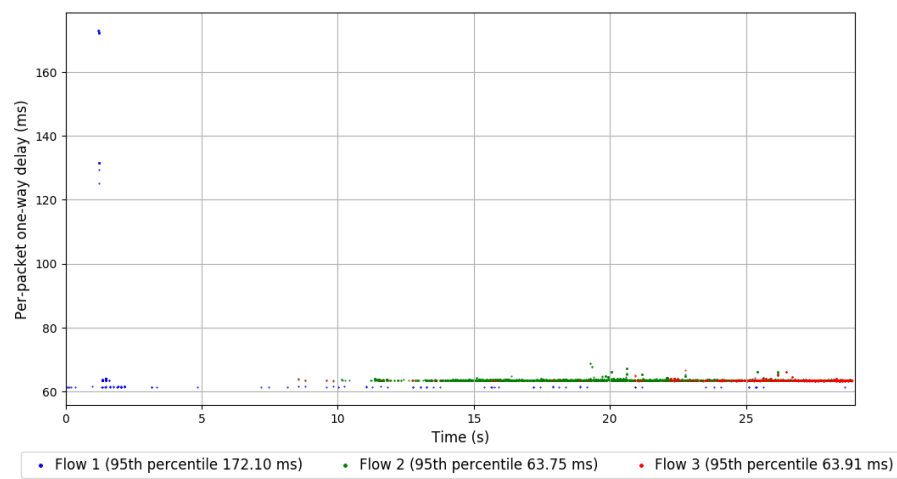
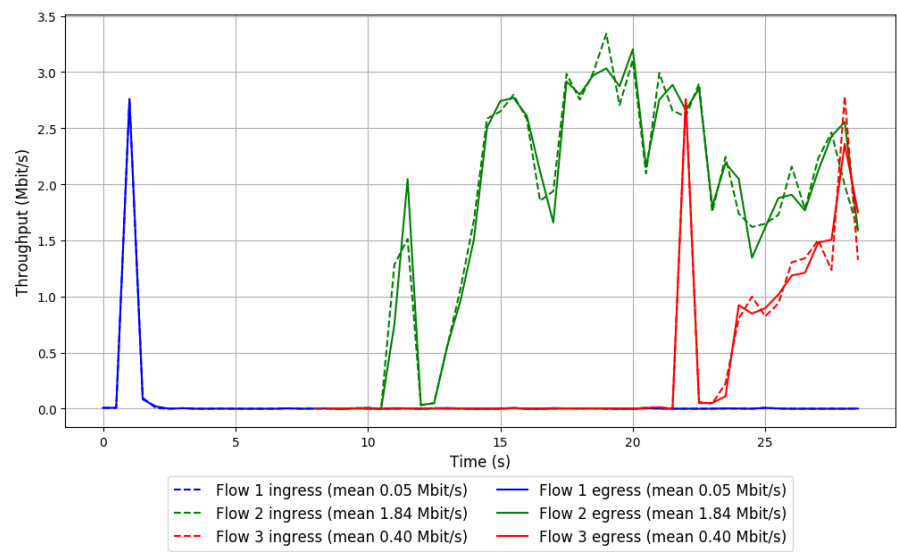
-- Flow 3:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 63.912 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link

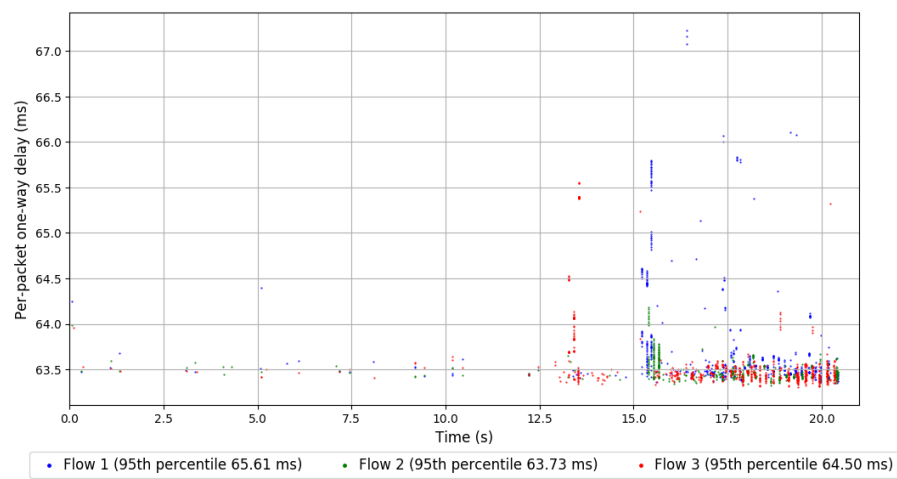
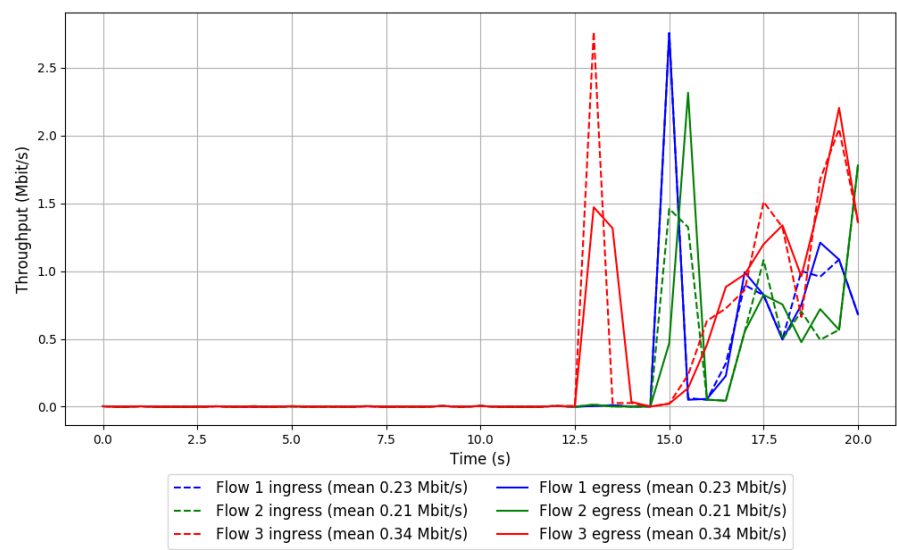


Run 5: Statistics of WebRTC media

Start at: 2017-08-12 15:29:00

End at: 2017-08-12 15:29:30

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-08-12 15:40:46

End at: 2017-08-12 15:41:16

Below is generated by plot.py at 2017-08-12 18:01:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.67 Mbit/s

95th percentile per-packet one-way delay: 63.784 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 63.953 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.76 Mbit/s

95th percentile per-packet one-way delay: 63.731 ms

Loss rate: 0.00%

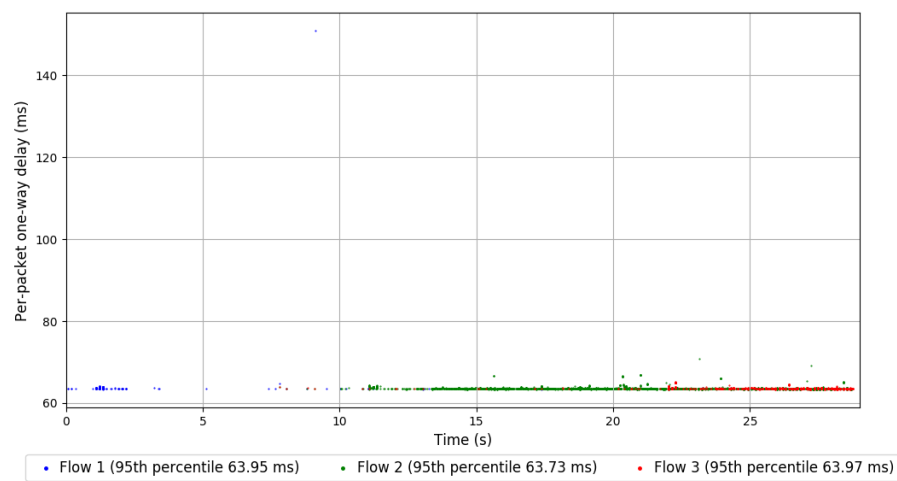
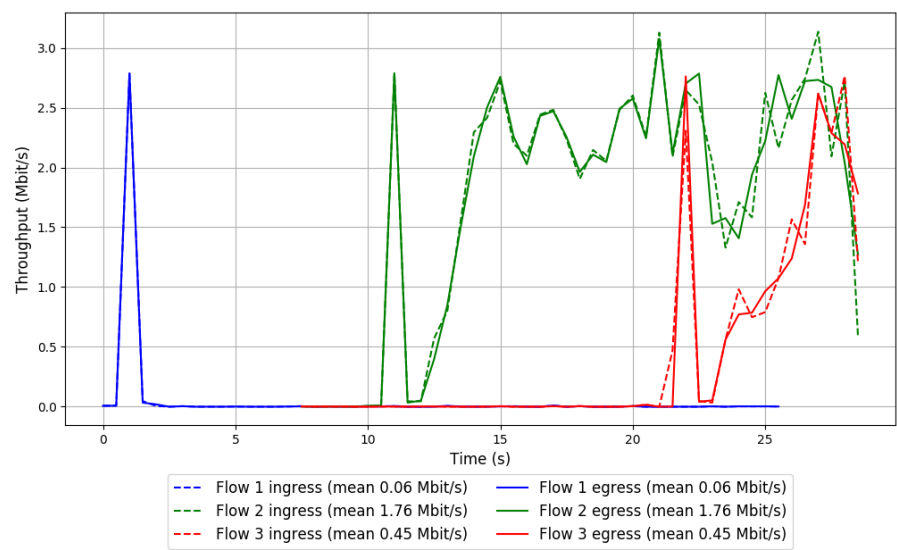
-- Flow 3:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 63.972 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-08-12 15:52:05

End at: 2017-08-12 15:52:35

Below is generated by plot.py at 2017-08-12 18:01:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.65 Mbit/s

95th percentile per-packet one-way delay: 63.819 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 63.774 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.87 Mbit/s

95th percentile per-packet one-way delay: 63.840 ms

Loss rate: 0.00%

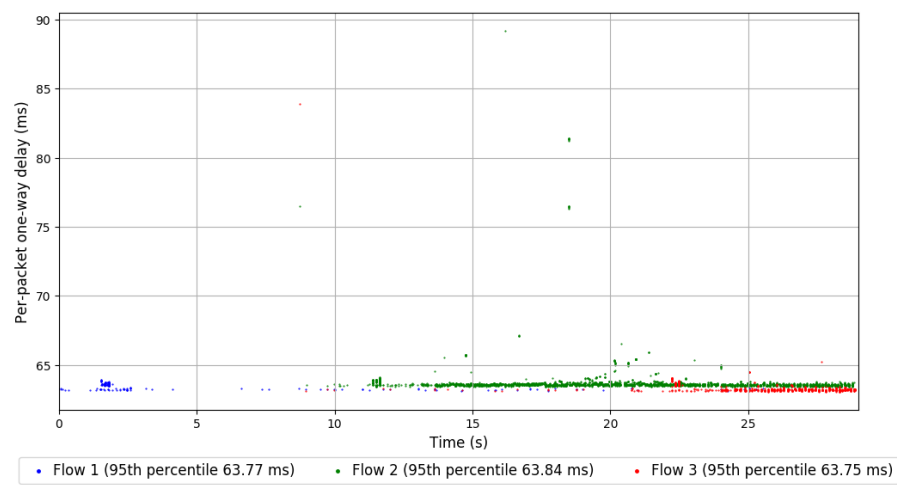
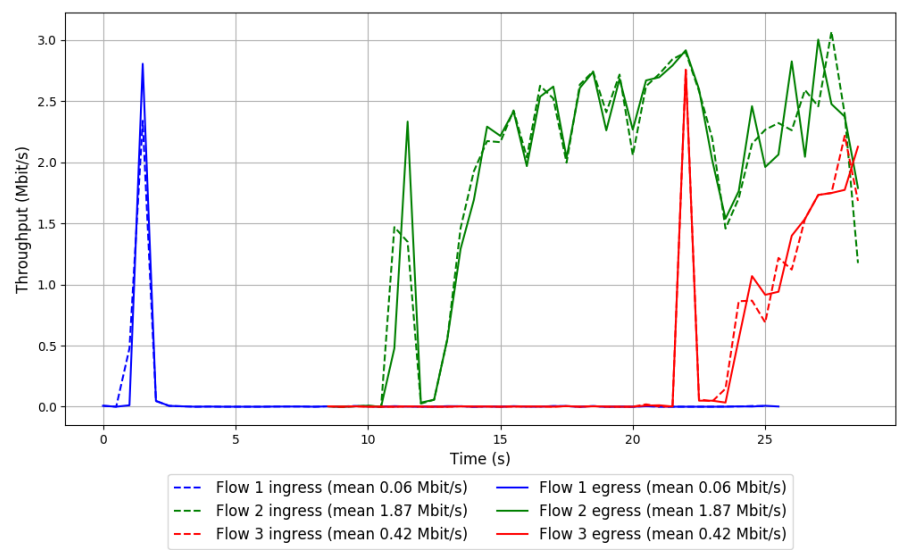
-- Flow 3:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 63.748 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-08-12 16:03:05

End at: 2017-08-12 16:03:35

Below is generated by plot.py at 2017-08-12 18:01:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.62 Mbit/s

95th percentile per-packet one-way delay: 63.753 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 63.649 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.87 Mbit/s

95th percentile per-packet one-way delay: 63.566 ms

Loss rate: 0.00%

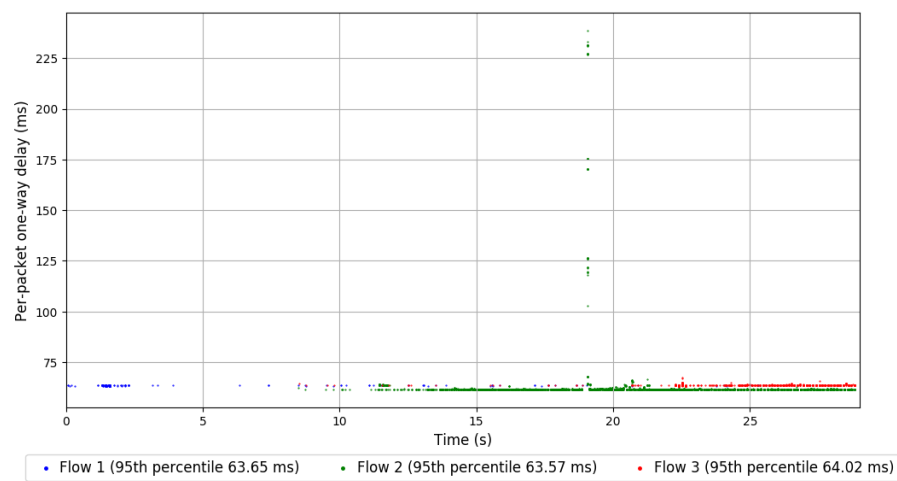
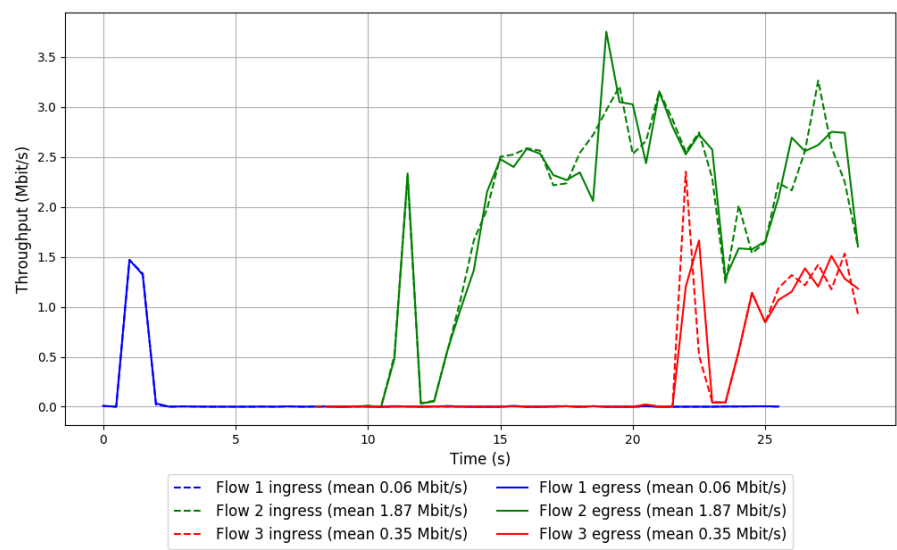
-- Flow 3:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 64.017 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

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

End at: 2017-08-12 16:14:46

Below is generated by plot.py at 2017-08-12 18:01:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.27 Mbit/s

95th percentile per-packet one-way delay: 65.472 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 64.026 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 65.630 ms

Loss rate: 0.00%

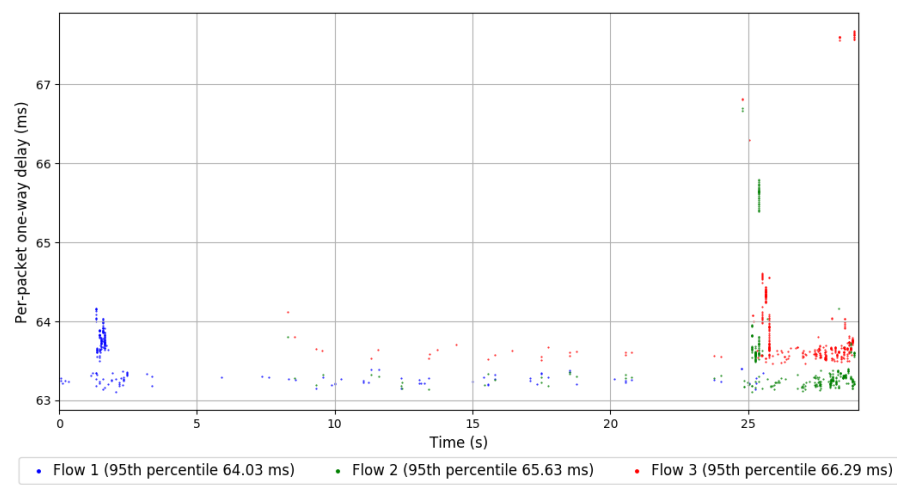
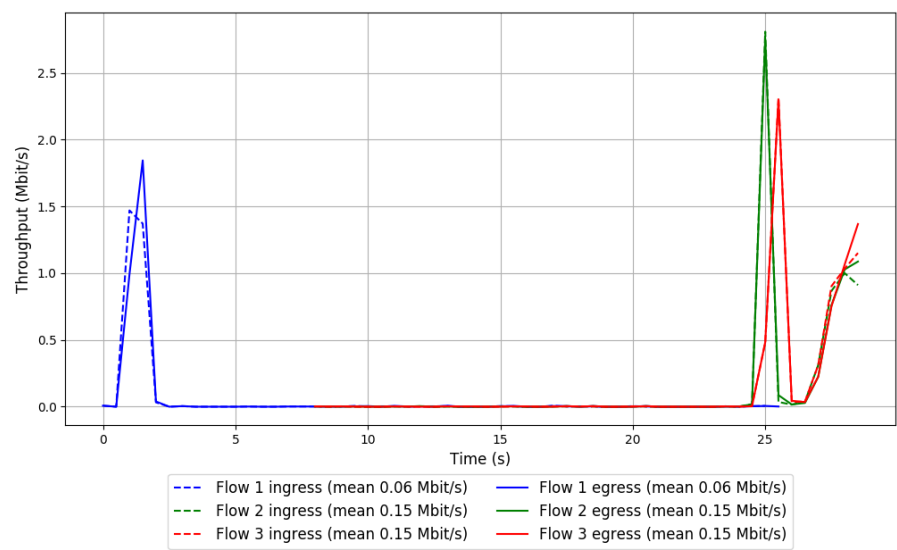
-- Flow 3:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 66.290 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-08-12 16:25:53

End at: 2017-08-12 16:26:23

Below is generated by plot.py at 2017-08-12 18:01:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.62 Mbit/s

95th percentile per-packet one-way delay: 63.829 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 67.636 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.74 Mbit/s

95th percentile per-packet one-way delay: 63.731 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 64.103 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

