

Pantheon Report

Generated at 2018-07-18 14:23:40 (UTC).

Data path: China Ethernet (*remote*) → AWS Korea Ethernet (*local*).

Repeated the test of 17 congestion control schemes 10 times.

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

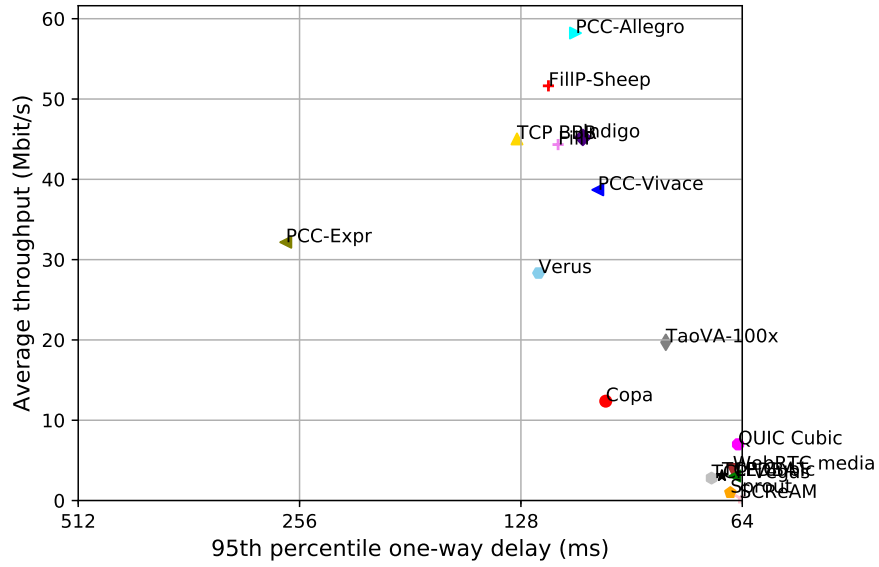
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

NTP offsets were measured against `ntp.nict.jp` and have been applied to correct the timestamps in logs.

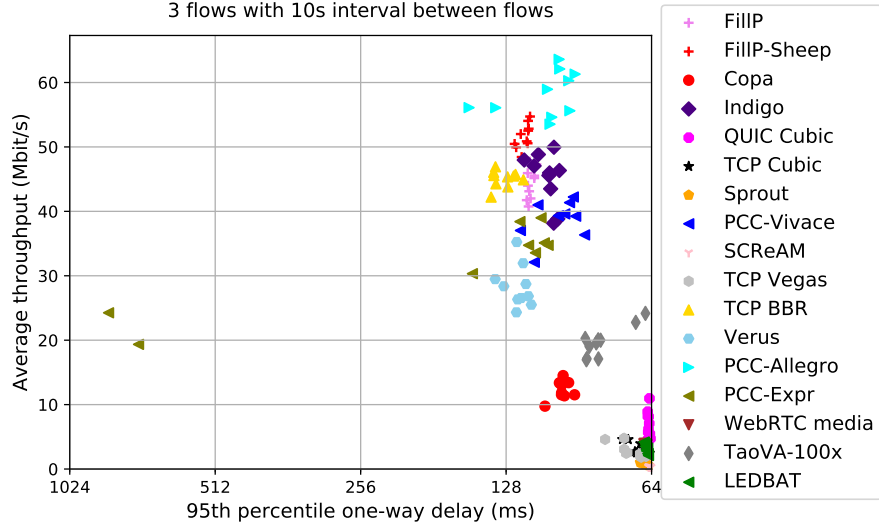
Git summary:

```
branch: master @ f7befc2d8410f41949e0ad8143a9aab40bab7edb
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ daed0c84f98531712514b2231f43ec6901114ffe
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
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/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quirk @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webRTC @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from China to AWS Korea, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from China to AWS Korea, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	26.86	20.09	14.86	122.66	128.06	140.31	10.92	12.47	11.99
Copa	10	6.12	5.73	8.30	97.72	96.26	102.26	25.86	26.26	12.36
TCP Cubic	10	1.41	1.75	1.62	67.06	68.22	67.71	1.28	1.40	1.98
FillP	10	27.59	18.04	14.68	108.24	115.40	126.29	29.71	33.77	33.91
FillP-Sheep	10	31.79	21.70	16.69	114.20	117.99	125.78	25.96	23.47	19.64
Indigo	10	34.68	12.05	7.86	104.77	95.84	100.85	32.96	2.54	3.58
LEDBAT	10	1.58	1.53	1.41	65.44	65.45	65.48	1.52	1.85	3.24
PCC-Allegro	10	43.40	15.94	13.05	97.47	112.70	127.51	30.04	4.40	8.82
PCC-Expr	9	24.48	9.13	4.99	243.69	286.79	316.52	28.95	25.89	33.17
QUIC Cubic	10	3.05	3.60	4.77	64.75	64.65	65.41	1.15	1.38	2.15
SCReAM	10	0.16	0.17	0.18	64.42	64.35	64.51	0.84	1.24	2.23
Sprout	10	0.44	0.54	0.60	65.79	66.30	66.28	1.35	1.59	2.22
TaoVA-100x	10	11.06	8.97	8.84	75.27	85.01	91.54	2.78	5.75	6.11
TCP Vegas	10	1.33	1.34	1.74	67.64	69.51	72.43	1.24	1.79	2.35
Verus	10	17.50	12.15	8.50	114.77	127.51	141.97	33.78	34.22	27.98
PCC-Vivace	9	30.02	12.27	5.71	97.51	100.85	81.22	11.57	3.98	5.22
WebRTC media	10	2.16	1.24	0.48	65.66	66.04	66.39	1.22	1.47	2.95

Run 1: Statistics of TCP BBR

Start at: 2018-07-18 09:16:09

End at: 2018-07-18 09:16:39

Local clock offset: 6.65 ms

Remote clock offset: 0.442 ms

Below is generated by plot.py at 2018-07-18 14:14:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 45.56 Mbit/s

95th percentile per-packet one-way delay: 135.676 ms

Loss rate: 13.23%

-- Flow 1:

Average throughput: 27.49 Mbit/s

95th percentile per-packet one-way delay: 128.385 ms

Loss rate: 13.19%

-- Flow 2:

Average throughput: 20.32 Mbit/s

95th percentile per-packet one-way delay: 144.393 ms

Loss rate: 13.35%

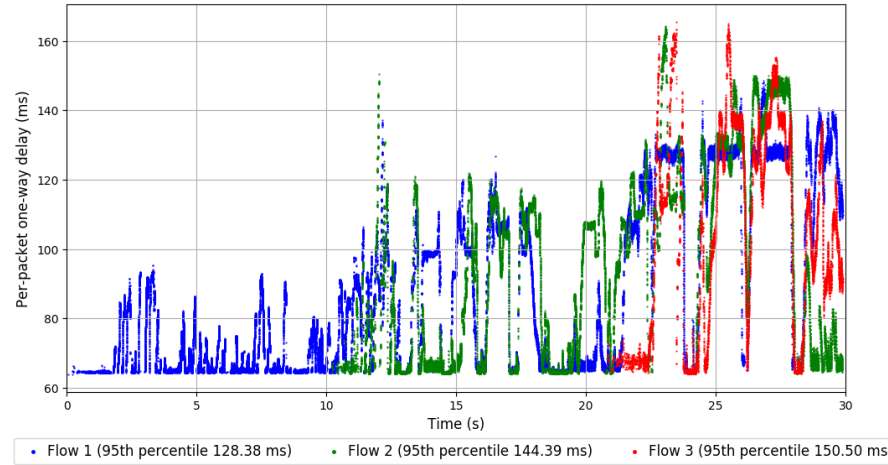
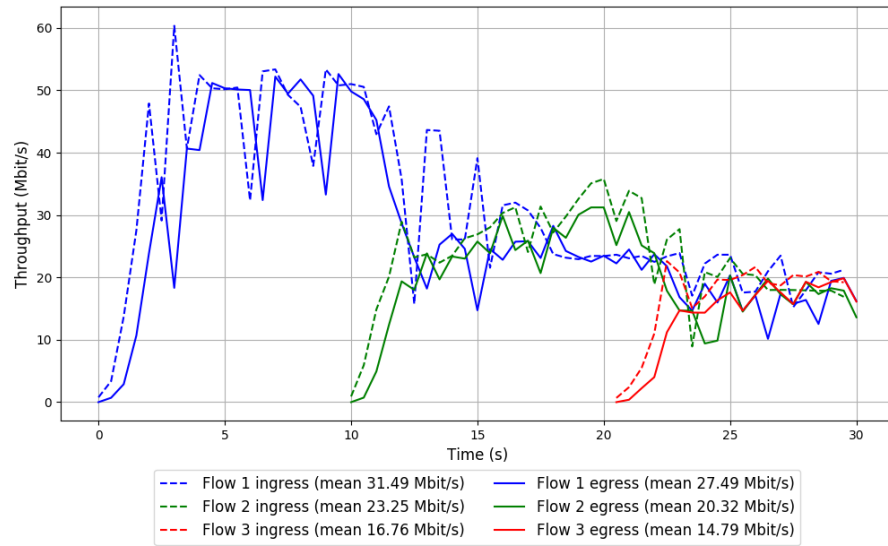
-- Flow 3:

Average throughput: 14.79 Mbit/s

95th percentile per-packet one-way delay: 150.499 ms

Loss rate: 13.17%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-07-18 09:45:04

End at: 2018-07-18 09:45:34

Local clock offset: 4.677 ms

Remote clock offset: 1.27 ms

Below is generated by plot.py at 2018-07-18 14:14:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 46.92 Mbit/s

95th percentile per-packet one-way delay: 134.658 ms

Loss rate: 14.32%

-- Flow 1:

Average throughput: 27.54 Mbit/s

95th percentile per-packet one-way delay: 132.811 ms

Loss rate: 8.68%

-- Flow 2:

Average throughput: 21.81 Mbit/s

95th percentile per-packet one-way delay: 117.863 ms

Loss rate: 23.31%

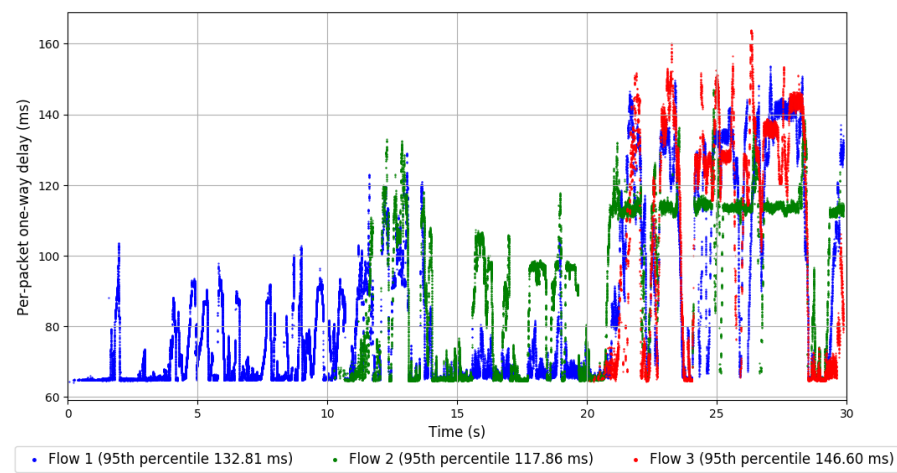
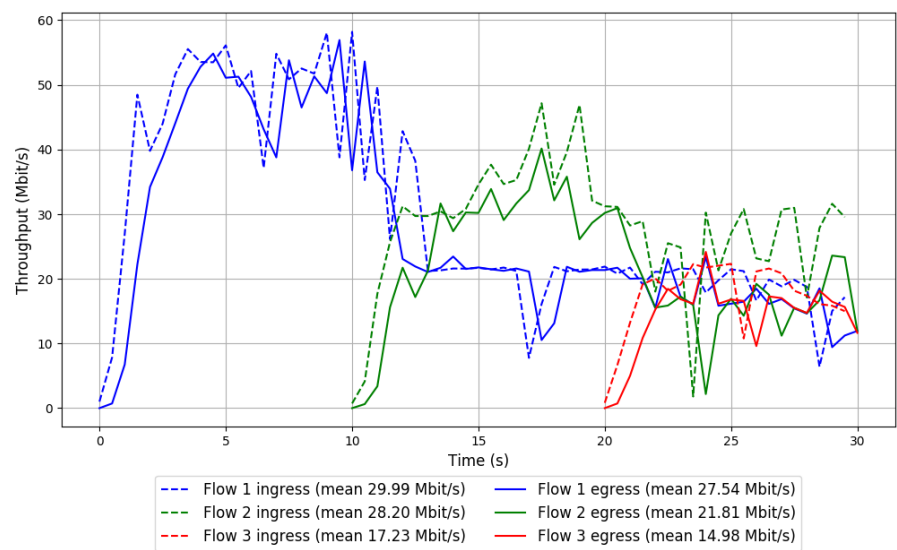
-- Flow 3:

Average throughput: 14.98 Mbit/s

95th percentile per-packet one-way delay: 146.603 ms

Loss rate: 14.42%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-07-18 10:13:03

End at: 2018-07-18 10:13:33

Local clock offset: -0.936 ms

Remote clock offset: 1.737 ms

Below is generated by plot.py at 2018-07-18 14:14:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 46.06 Mbit/s

95th percentile per-packet one-way delay: 135.818 ms

Loss rate: 12.05%

-- Flow 1:

Average throughput: 25.69 Mbit/s

95th percentile per-packet one-way delay: 132.533 ms

Loss rate: 10.91%

-- Flow 2:

Average throughput: 22.78 Mbit/s

95th percentile per-packet one-way delay: 136.193 ms

Loss rate: 13.87%

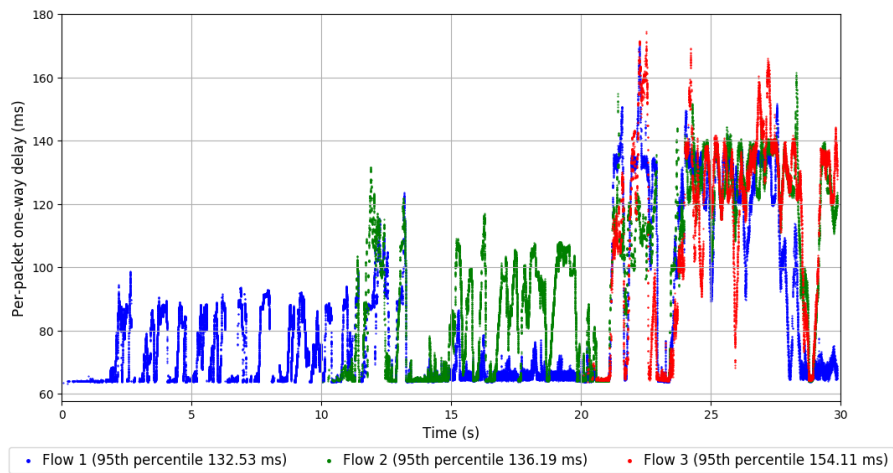
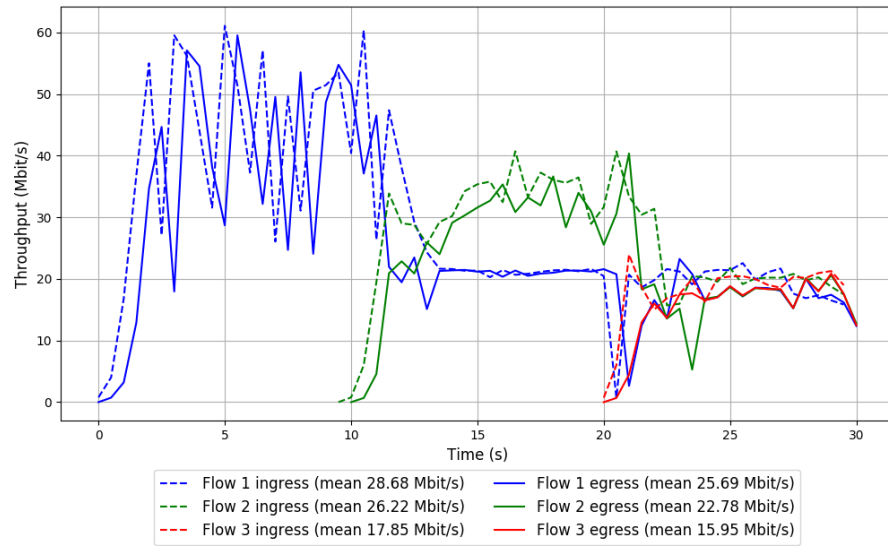
-- Flow 3:

Average throughput: 15.95 Mbit/s

95th percentile per-packet one-way delay: 154.114 ms

Loss rate: 12.20%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-07-18 10:43:50

End at: 2018-07-18 10:44:20

Local clock offset: 1.632 ms

Remote clock offset: 2.024 ms

Below is generated by plot.py at 2018-07-18 14:14:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 43.80 Mbit/s

95th percentile per-packet one-way delay: 126.934 ms

Loss rate: 8.89%

-- Flow 1:

Average throughput: 24.43 Mbit/s

95th percentile per-packet one-way delay: 126.724 ms

Loss rate: 9.48%

-- Flow 2:

Average throughput: 21.02 Mbit/s

95th percentile per-packet one-way delay: 126.316 ms

Loss rate: 8.94%

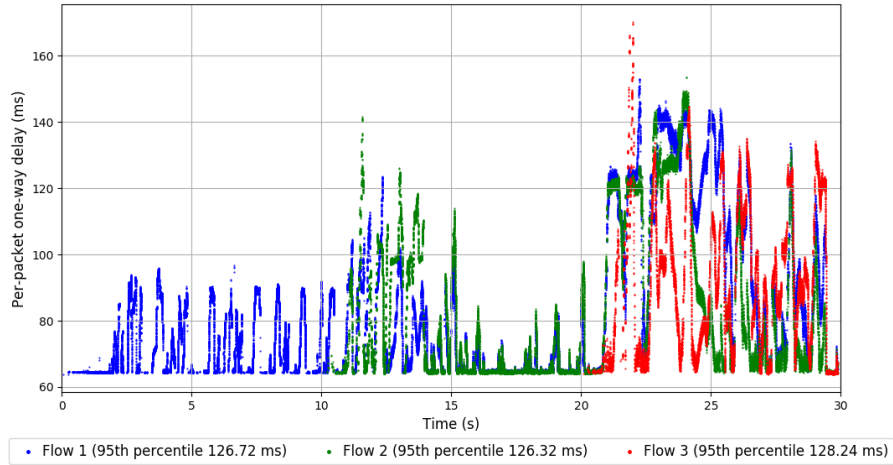
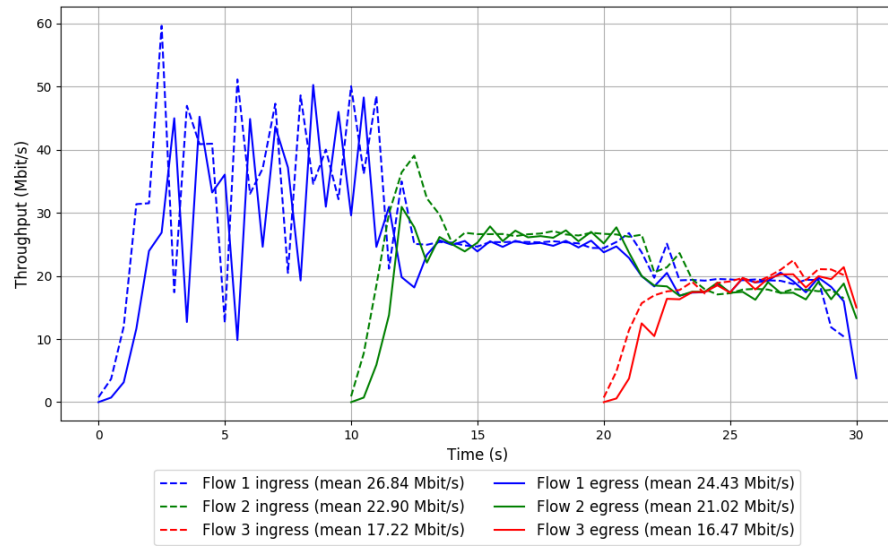
-- Flow 3:

Average throughput: 16.47 Mbit/s

95th percentile per-packet one-way delay: 128.243 ms

Loss rate: 5.95%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-07-18 11:15:07

End at: 2018-07-18 11:15:37

Local clock offset: 6.005 ms

Remote clock offset: 1.911 ms

Below is generated by plot.py at 2018-07-18 14:14:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 42.21 Mbit/s

95th percentile per-packet one-way delay: 137.483 ms

Loss rate: 10.36%

-- Flow 1:

Average throughput: 24.94 Mbit/s

95th percentile per-packet one-way delay: 135.893 ms

Loss rate: 10.00%

-- Flow 2:

Average throughput: 18.50 Mbit/s

95th percentile per-packet one-way delay: 134.244 ms

Loss rate: 9.28%

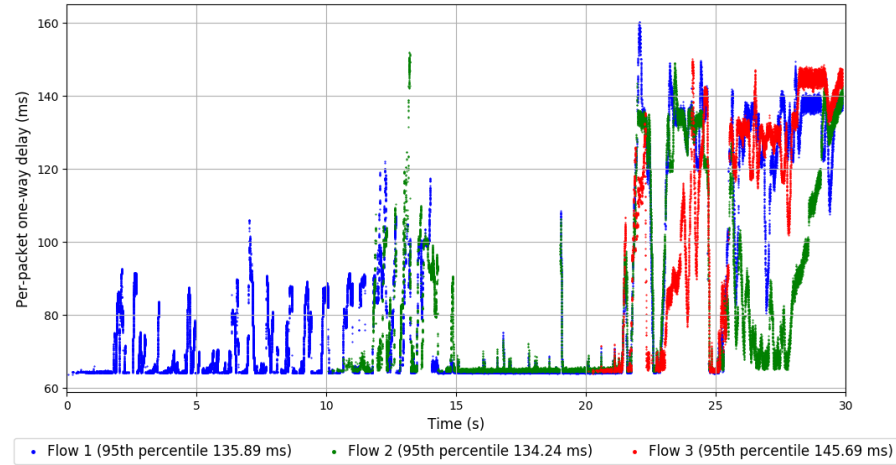
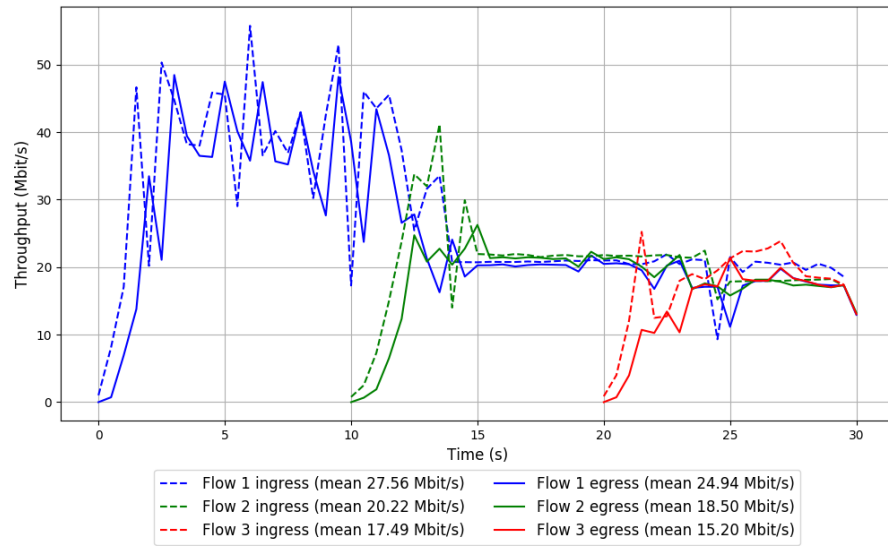
-- Flow 3:

Average throughput: 15.20 Mbit/s

95th percentile per-packet one-way delay: 145.691 ms

Loss rate: 14.57%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-07-18 11:47:20

End at: 2018-07-18 11:47:51

Local clock offset: 6.538 ms

Remote clock offset: 1.548 ms

Below is generated by plot.py at 2018-07-18 14:14:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 44.90 Mbit/s

95th percentile per-packet one-way delay: 117.879 ms

Loss rate: 10.58%

-- Flow 1:

Average throughput: 26.77 Mbit/s

95th percentile per-packet one-way delay: 108.493 ms

Loss rate: 11.37%

-- Flow 2:

Average throughput: 20.99 Mbit/s

95th percentile per-packet one-way delay: 121.266 ms

Loss rate: 8.96%

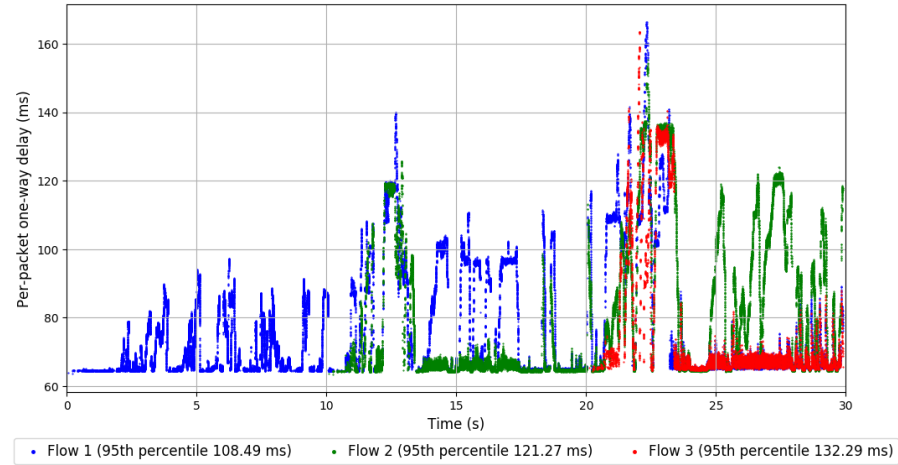
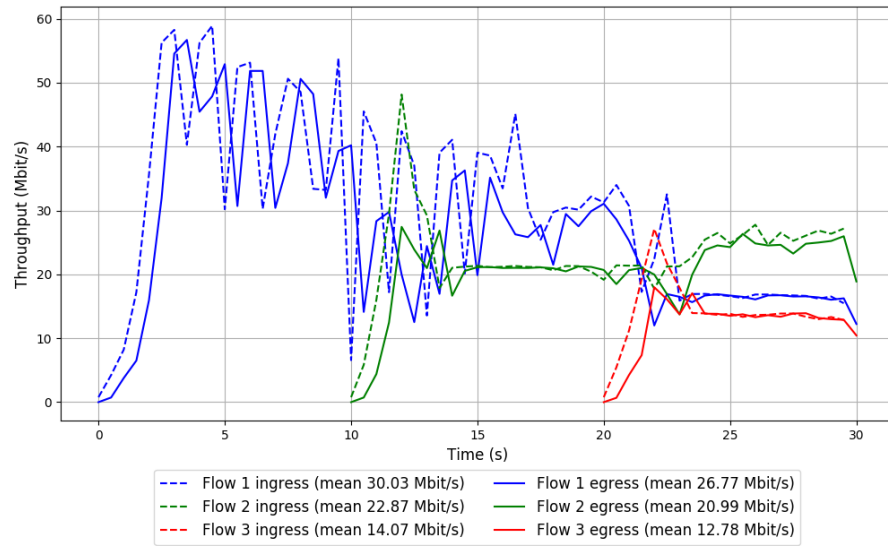
-- Flow 3:

Average throughput: 12.78 Mbit/s

95th percentile per-packet one-way delay: 132.294 ms

Loss rate: 10.75%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-07-18 12:18:52

End at: 2018-07-18 12:19:22

Local clock offset: 5.148 ms

Remote clock offset: 1.415 ms

Below is generated by plot.py at 2018-07-18 14:14:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 44.27 Mbit/s

95th percentile per-packet one-way delay: 134.371 ms

Loss rate: 13.65%

-- Flow 1:

Average throughput: 29.22 Mbit/s

95th percentile per-packet one-way delay: 117.522 ms

Loss rate: 14.41%

-- Flow 2:

Average throughput: 15.89 Mbit/s

95th percentile per-packet one-way delay: 135.366 ms

Loss rate: 11.16%

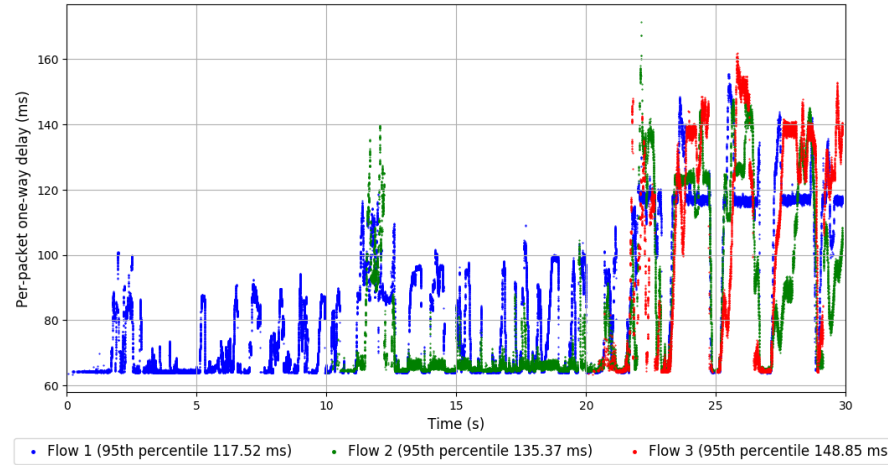
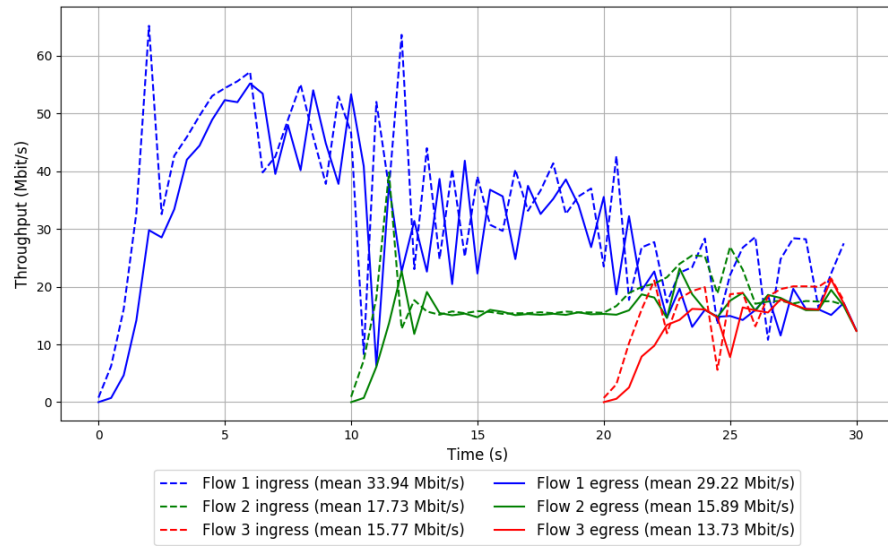
-- Flow 3:

Average throughput: 13.73 Mbit/s

95th percentile per-packet one-way delay: 148.851 ms

Loss rate: 14.38%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-07-18 12:52:01

End at: 2018-07-18 12:52:31

Local clock offset: 7.1 ms

Remote clock offset: 1.199 ms

Below is generated by plot.py at 2018-07-18 14:14:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 45.36 Mbit/s

95th percentile per-packet one-way delay: 127.129 ms

Loss rate: 12.02%

-- Flow 1:

Average throughput: 29.10 Mbit/s

95th percentile per-packet one-way delay: 106.604 ms

Loss rate: 12.81%

-- Flow 2:

Average throughput: 16.46 Mbit/s

95th percentile per-packet one-way delay: 130.233 ms

Loss rate: 11.30%

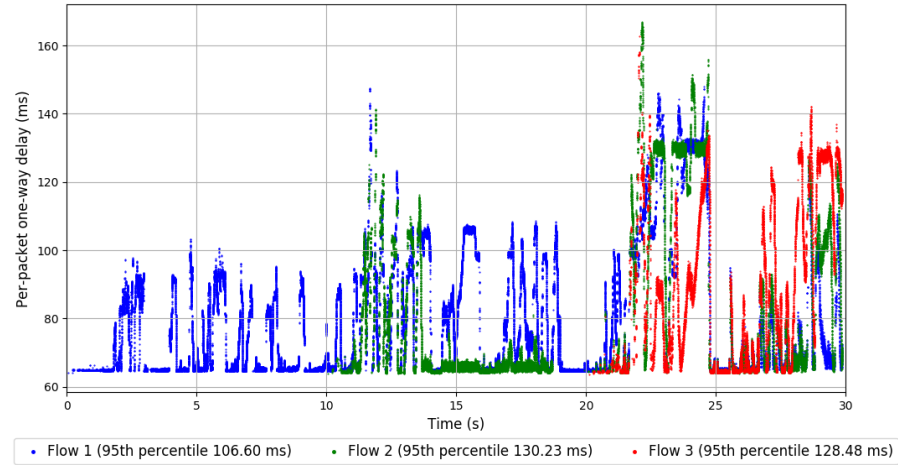
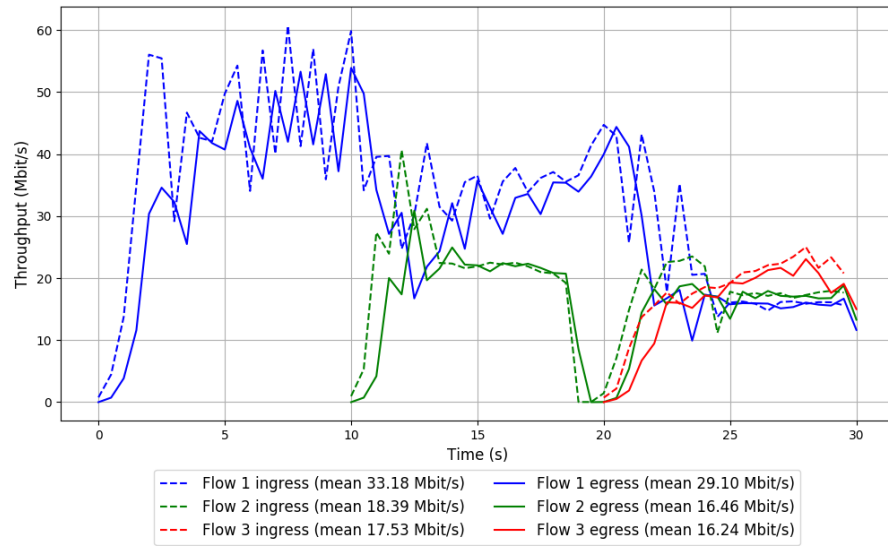
-- Flow 3:

Average throughput: 16.24 Mbit/s

95th percentile per-packet one-way delay: 128.478 ms

Loss rate: 9.03%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-07-18 13:22:25

End at: 2018-07-18 13:22:55

Local clock offset: 0.48 ms

Remote clock offset: 0.993 ms

Below is generated by plot.py at 2018-07-18 14:15:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 45.74 Mbit/s

95th percentile per-packet one-way delay: 122.406 ms

Loss rate: 9.19%

-- Flow 1:

Average throughput: 26.42 Mbit/s

95th percentile per-packet one-way delay: 114.503 ms

Loss rate: 7.21%

-- Flow 2:

Average throughput: 22.30 Mbit/s

95th percentile per-packet one-way delay: 119.550 ms

Loss rate: 11.04%

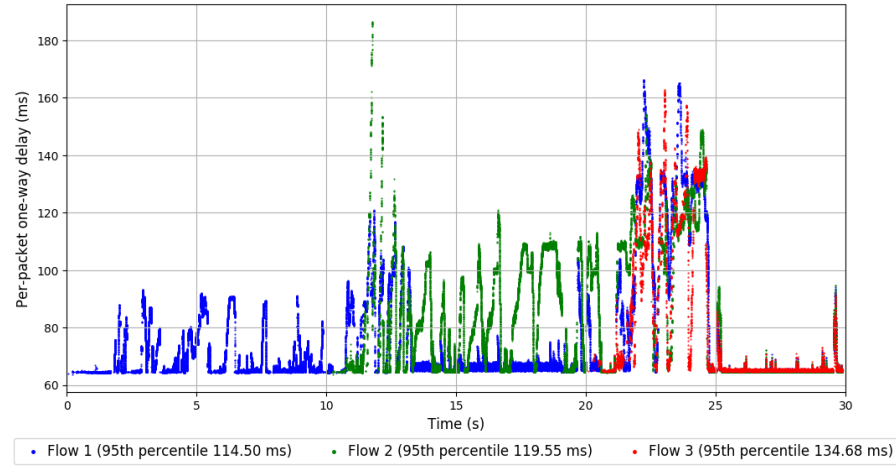
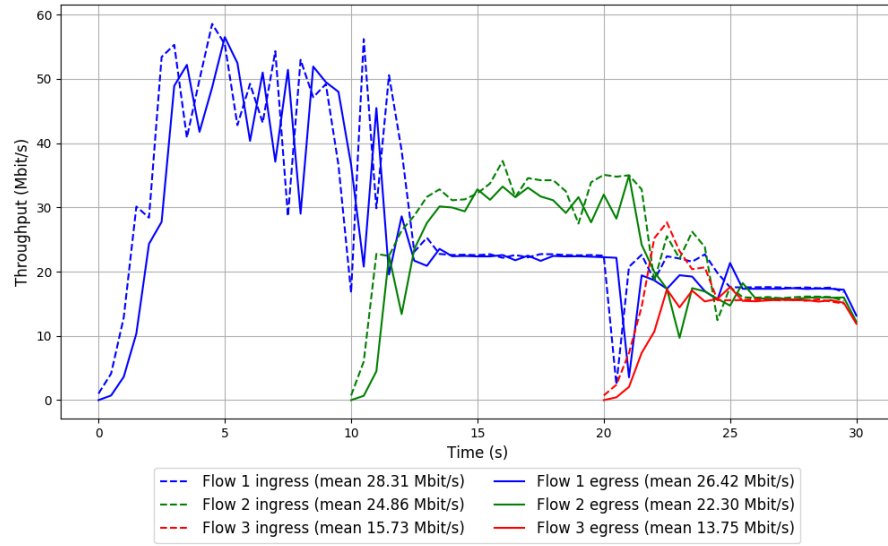
-- Flow 3:

Average throughput: 13.75 Mbit/s

95th percentile per-packet one-way delay: 134.678 ms

Loss rate: 14.04%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-07-18 13:53:15

End at: 2018-07-18 13:53:45

Local clock offset: -1.911 ms

Remote clock offset: 0.576 ms

Below is generated by plot.py at 2018-07-18 14:15:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 45.49 Mbit/s

95th percentile per-packet one-way delay: 123.492 ms

Loss rate: 11.92%

-- Flow 1:

Average throughput: 27.03 Mbit/s

95th percentile per-packet one-way delay: 123.131 ms

Loss rate: 11.16%

-- Flow 2:

Average throughput: 20.80 Mbit/s

95th percentile per-packet one-way delay: 115.220 ms

Loss rate: 13.53%

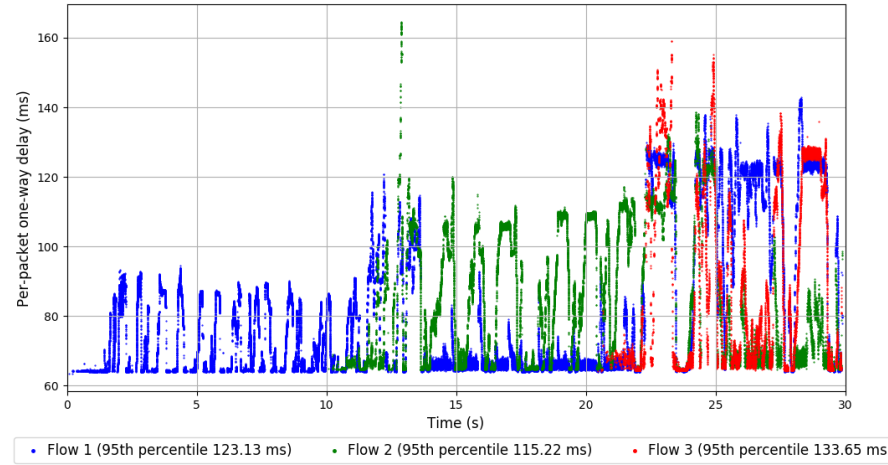
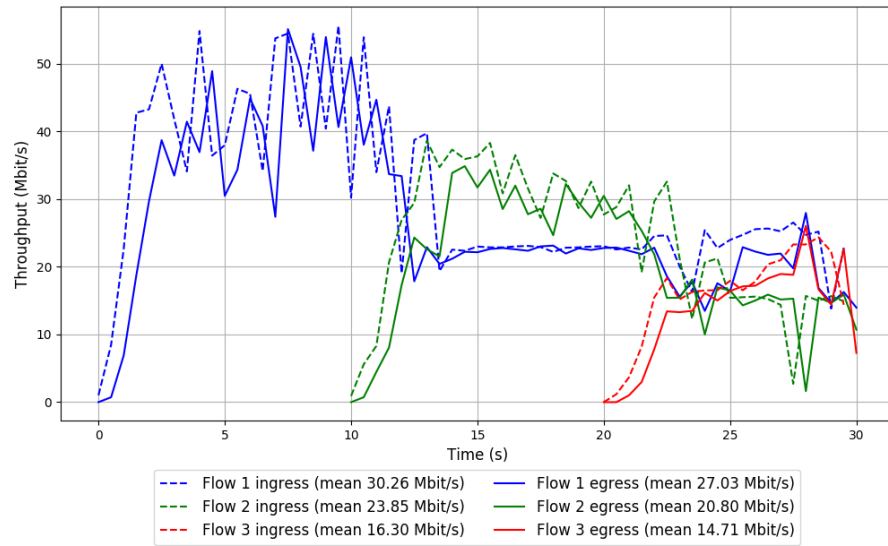
-- Flow 3:

Average throughput: 14.71 Mbit/s

95th percentile per-packet one-way delay: 133.647 ms

Loss rate: 11.39%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-07-18 09:12:34

End at: 2018-07-18 09:13:04

Local clock offset: 6.158 ms

Remote clock offset: 0.322 ms

Below is generated by plot.py at 2018-07-18 14:15:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.05 Mbit/s

95th percentile per-packet one-way delay: 98.260 ms

Loss rate: 22.95%

-- Flow 1:

Average throughput: 6.16 Mbit/s

95th percentile per-packet one-way delay: 100.892 ms

Loss rate: 27.92%

-- Flow 2:

Average throughput: 6.23 Mbit/s

95th percentile per-packet one-way delay: 92.795 ms

Loss rate: 24.45%

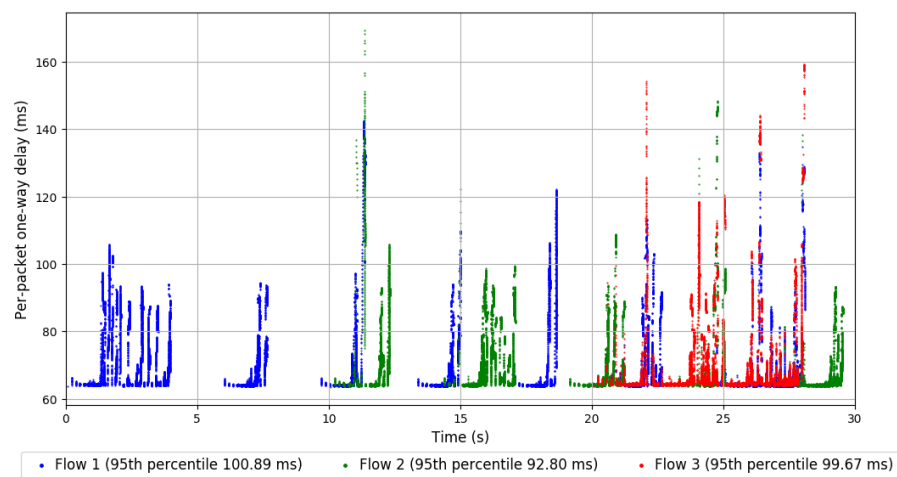
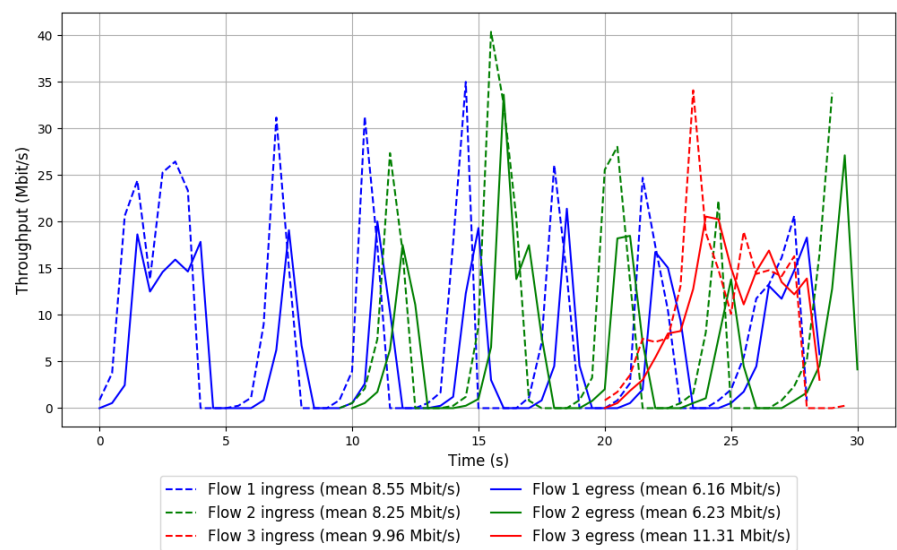
-- Flow 3:

Average throughput: 11.31 Mbit/s

95th percentile per-packet one-way delay: 99.665 ms

Loss rate: 8.47%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-07-18 09:41:19

End at: 2018-07-18 09:41:49

Local clock offset: 7.214 ms

Remote clock offset: 1.098 ms

Below is generated by plot.py at 2018-07-18 14:15:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 11.36 Mbit/s

95th percentile per-packet one-way delay: 96.966 ms

Loss rate: 24.23%

-- Flow 1:

Average throughput: 5.48 Mbit/s

95th percentile per-packet one-way delay: 95.082 ms

Loss rate: 27.56%

-- Flow 2:

Average throughput: 5.93 Mbit/s

95th percentile per-packet one-way delay: 94.499 ms

Loss rate: 26.02%

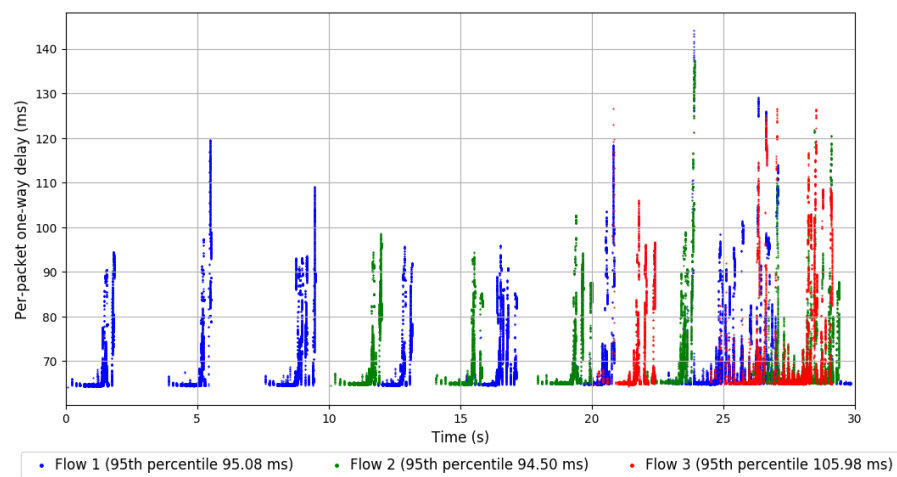
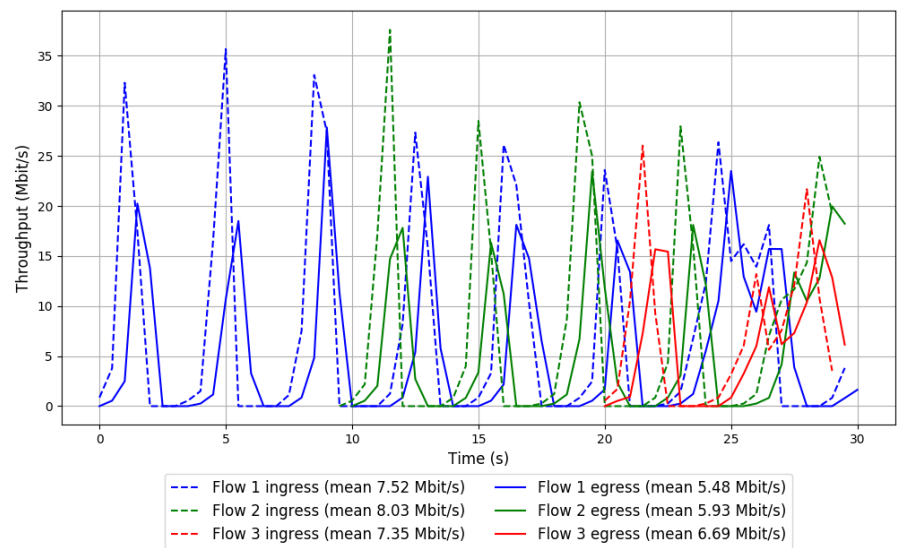
-- Flow 3:

Average throughput: 6.69 Mbit/s

95th percentile per-packet one-way delay: 105.984 ms

Loss rate: 8.79%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-07-18 10:09:28

End at: 2018-07-18 10:09:58

Local clock offset: -1.093 ms

Remote clock offset: 1.707 ms

Below is generated by plot.py at 2018-07-18 14:15:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 9.76 Mbit/s

95th percentile per-packet one-way delay: 106.365 ms

Loss rate: 28.31%

-- Flow 1:

Average throughput: 4.87 Mbit/s

95th percentile per-packet one-way delay: 101.502 ms

Loss rate: 31.12%

-- Flow 2:

Average throughput: 4.59 Mbit/s

95th percentile per-packet one-way delay: 105.747 ms

Loss rate: 29.11%

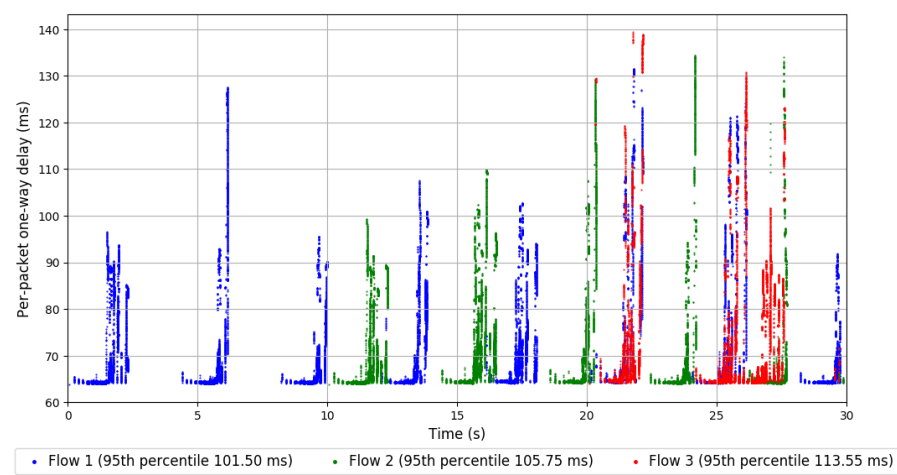
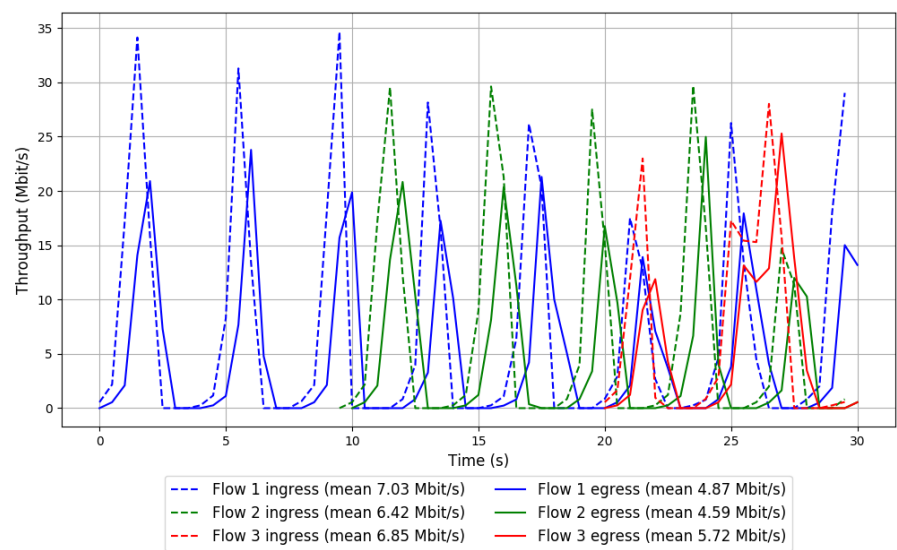
-- Flow 3:

Average throughput: 5.72 Mbit/s

95th percentile per-packet one-way delay: 113.554 ms

Loss rate: 18.03%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-07-18 10:39:32

End at: 2018-07-18 10:40:02

Local clock offset: 1.13 ms

Remote clock offset: 1.9 ms

Below is generated by plot.py at 2018-07-18 14:15:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 11.84 Mbit/s

95th percentile per-packet one-way delay: 98.261 ms

Loss rate: 24.86%

-- Flow 1:

Average throughput: 6.95 Mbit/s

95th percentile per-packet one-way delay: 97.856 ms

Loss rate: 23.67%

-- Flow 2:

Average throughput: 4.88 Mbit/s

95th percentile per-packet one-way delay: 96.240 ms

Loss rate: 29.38%

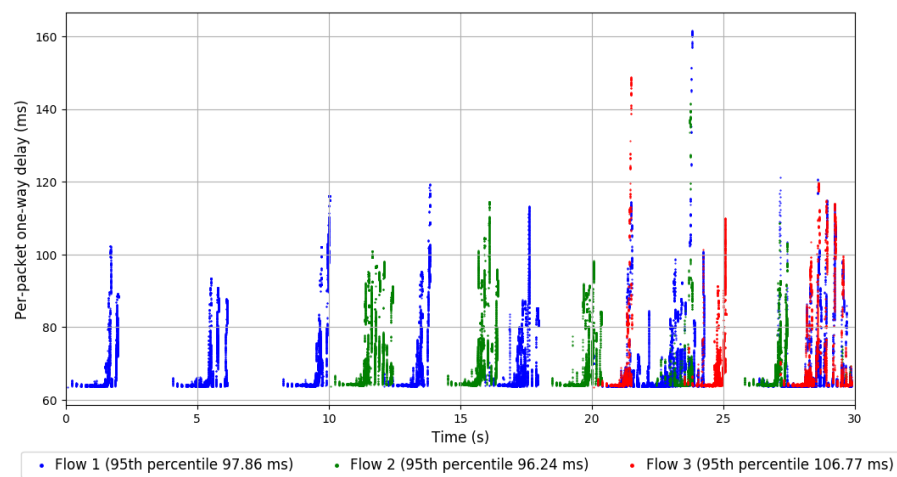
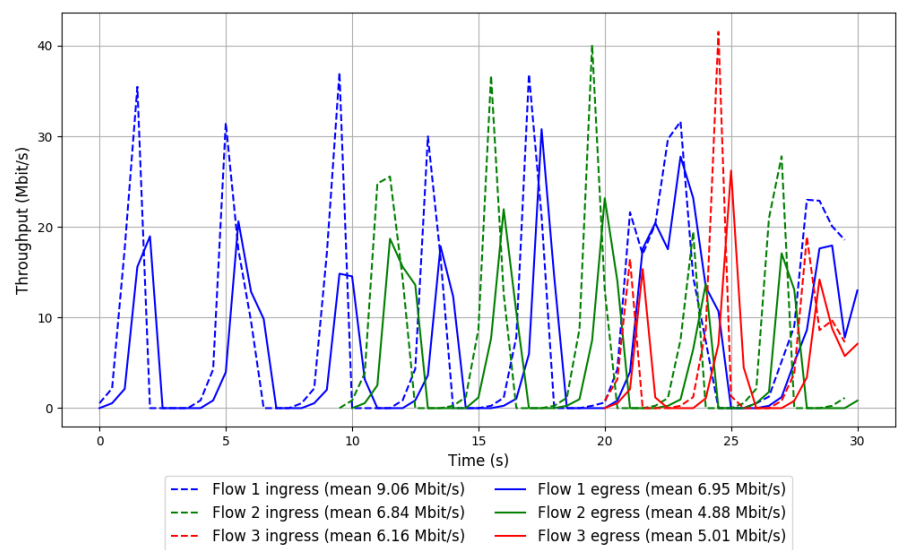
-- Flow 3:

Average throughput: 5.01 Mbit/s

95th percentile per-packet one-way delay: 106.768 ms

Loss rate: 20.05%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-07-18 11:10:53

End at: 2018-07-18 11:11:23

Local clock offset: 4.143 ms

Remote clock offset: 1.913 ms

Below is generated by plot.py at 2018-07-18 14:15:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.41 Mbit/s

95th percentile per-packet one-way delay: 95.031 ms

Loss rate: 19.37%

-- Flow 1:

Average throughput: 7.30 Mbit/s

95th percentile per-packet one-way delay: 92.436 ms

Loss rate: 17.73%

-- Flow 2:

Average throughput: 4.50 Mbit/s

95th percentile per-packet one-way delay: 95.394 ms

Loss rate: 30.01%

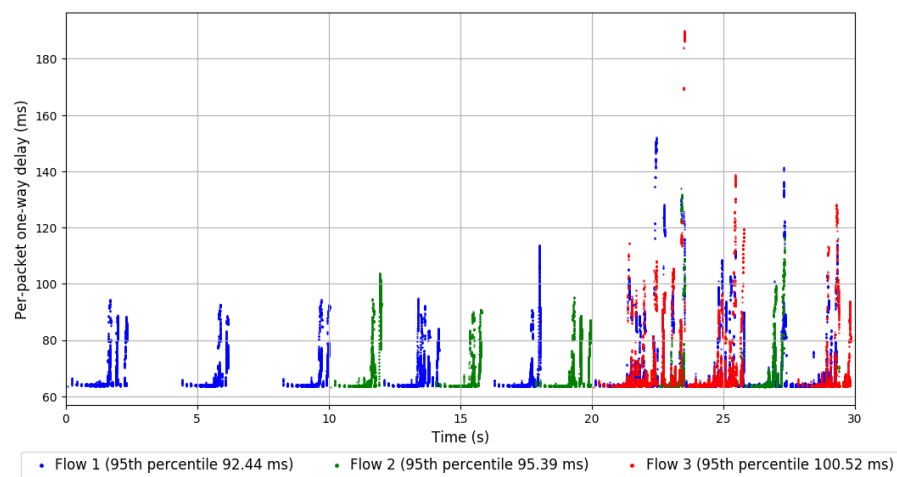
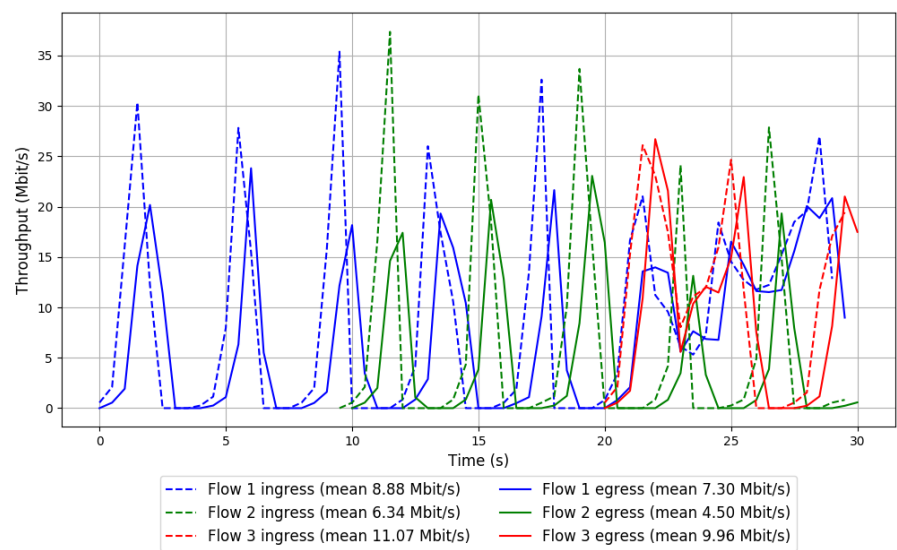
-- Flow 3:

Average throughput: 9.96 Mbit/s

95th percentile per-packet one-way delay: 100.520 ms

Loss rate: 10.98%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-07-18 11:43:29

End at: 2018-07-18 11:43:59

Local clock offset: 8.154 ms

Remote clock offset: 1.585 ms

Below is generated by plot.py at 2018-07-18 14:15:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 14.50 Mbit/s

95th percentile per-packet one-way delay: 97.562 ms

Loss rate: 19.02%

-- Flow 1:

Average throughput: 8.52 Mbit/s

95th percentile per-packet one-way delay: 95.880 ms

Loss rate: 20.04%

-- Flow 2:

Average throughput: 6.29 Mbit/s

95th percentile per-packet one-way delay: 97.675 ms

Loss rate: 20.02%

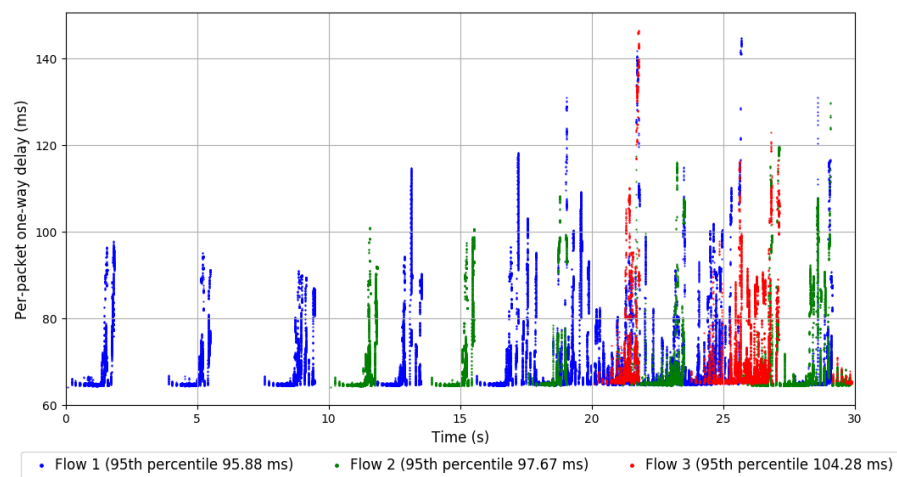
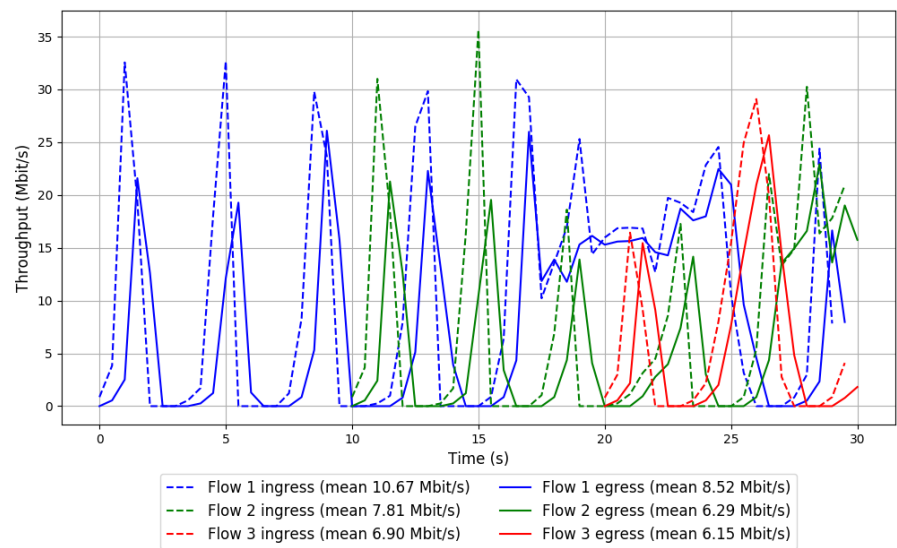
-- Flow 3:

Average throughput: 6.15 Mbit/s

95th percentile per-packet one-way delay: 104.282 ms

Loss rate: 12.19%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-07-18 12:14:17

End at: 2018-07-18 12:14:47

Local clock offset: 4.064 ms

Remote clock offset: 1.381 ms

Below is generated by plot.py at 2018-07-18 14:15:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.41 Mbit/s

95th percentile per-packet one-way delay: 99.004 ms

Loss rate: 20.92%

-- Flow 1:

Average throughput: 5.94 Mbit/s

95th percentile per-packet one-way delay: 101.965 ms

Loss rate: 27.20%

-- Flow 2:

Average throughput: 6.80 Mbit/s

95th percentile per-packet one-way delay: 94.269 ms

Loss rate: 20.02%

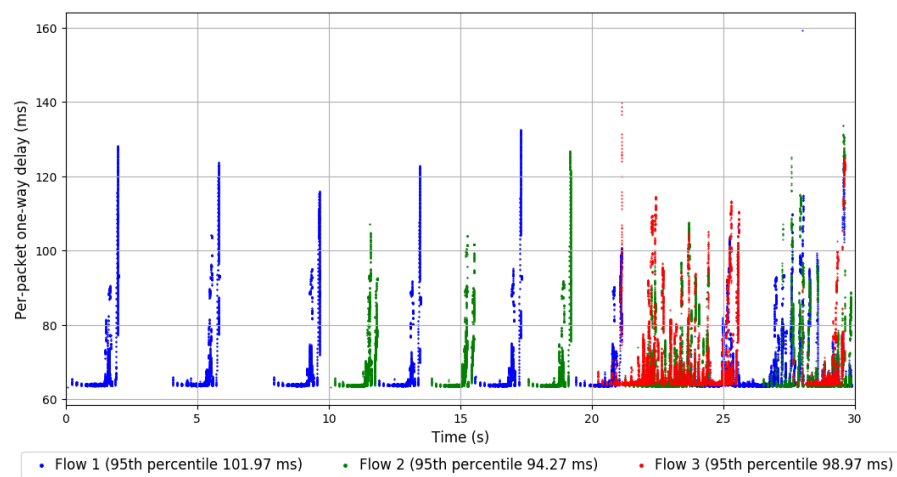
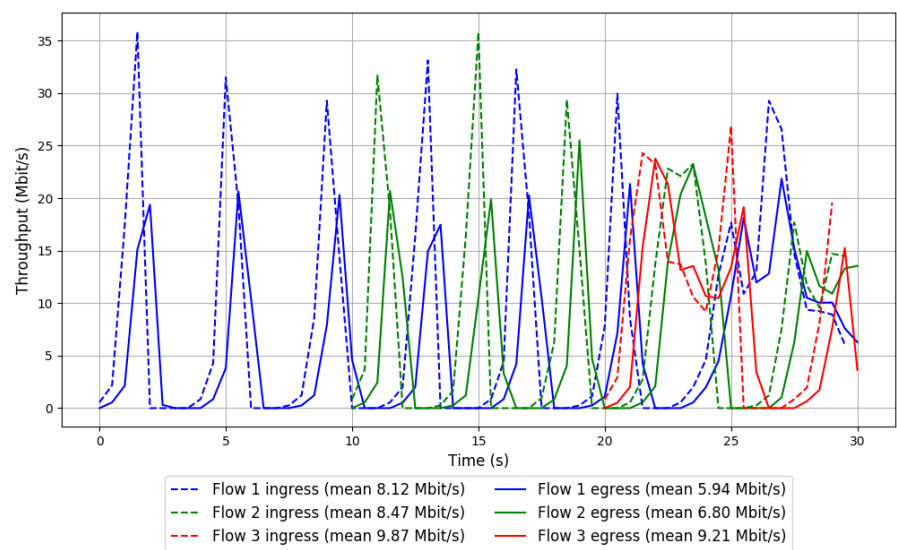
-- Flow 3:

Average throughput: 9.21 Mbit/s

95th percentile per-packet one-way delay: 98.973 ms

Loss rate: 6.19%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-07-18 12:47:50

End at: 2018-07-18 12:48:20

Local clock offset: 6.671 ms

Remote clock offset: 1.172 ms

Below is generated by plot.py at 2018-07-18 14:15:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.37 Mbit/s

95th percentile per-packet one-way delay: 99.300 ms

Loss rate: 23.89%

-- Flow 1:

Average throughput: 5.09 Mbit/s

95th percentile per-packet one-way delay: 98.569 ms

Loss rate: 25.14%

-- Flow 2:

Average throughput: 6.56 Mbit/s

95th percentile per-packet one-way delay: 96.518 ms

Loss rate: 29.53%

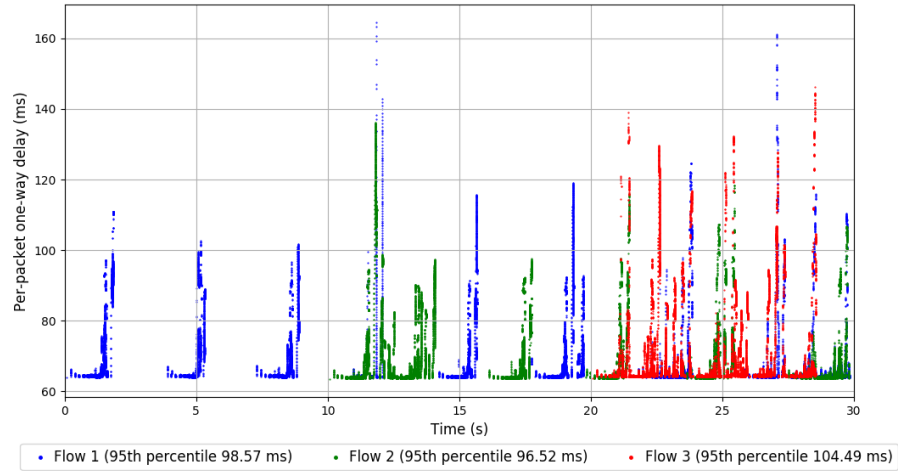
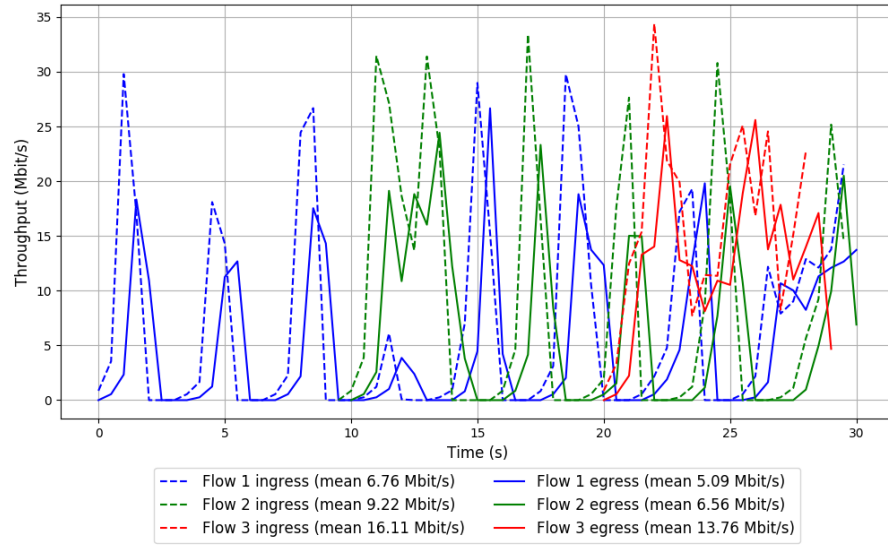
-- Flow 3:

Average throughput: 13.76 Mbit/s

95th percentile per-packet one-way delay: 104.491 ms

Loss rate: 14.41%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-07-18 13:18:25

End at: 2018-07-18 13:18:55

Local clock offset: 2.091 ms

Remote clock offset: 0.931 ms

Below is generated by plot.py at 2018-07-18 14:15:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 11.53 Mbit/s

95th percentile per-packet one-way delay: 92.369 ms

Loss rate: 26.20%

-- Flow 1:

Average throughput: 5.47 Mbit/s

95th percentile per-packet one-way delay: 94.661 ms

Loss rate: 30.49%

-- Flow 2:

Average throughput: 6.14 Mbit/s

95th percentile per-packet one-way delay: 91.939 ms

Loss rate: 25.48%

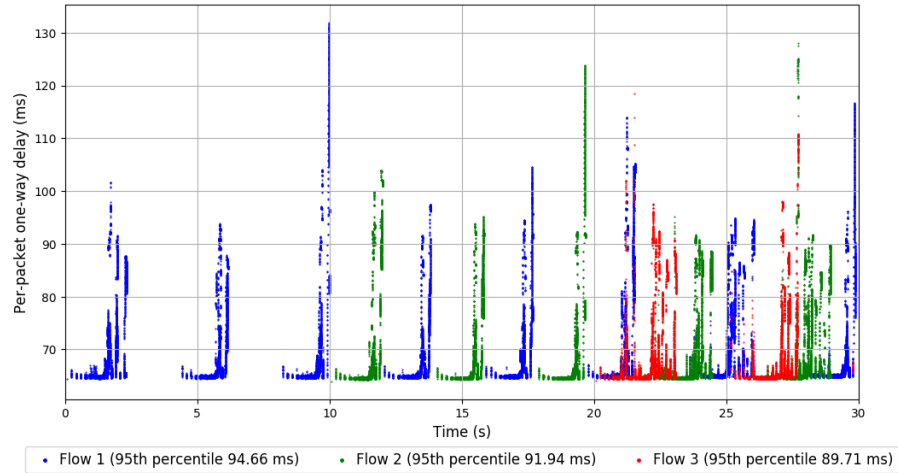
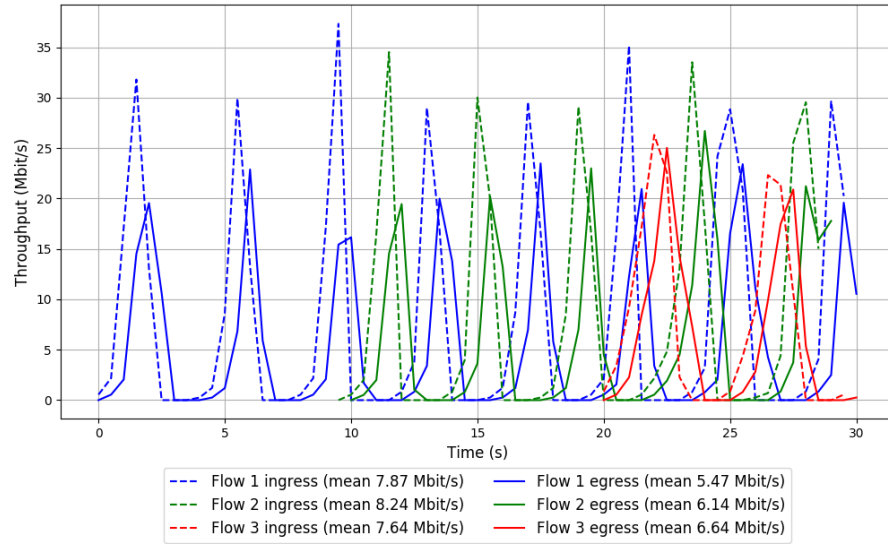
-- Flow 3:

Average throughput: 6.64 Mbit/s

95th percentile per-packet one-way delay: 89.707 ms

Loss rate: 14.37%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-07-18 13:49:13

End at: 2018-07-18 13:49:43

Local clock offset: -2.153 ms

Remote clock offset: 0.618 ms

Below is generated by plot.py at 2018-07-18 14:15:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 11.53 Mbit/s

95th percentile per-packet one-way delay: 98.306 ms

Loss rate: 24.37%

-- Flow 1:

Average throughput: 5.43 Mbit/s

95th percentile per-packet one-way delay: 98.339 ms

Loss rate: 27.68%

-- Flow 2:

Average throughput: 5.37 Mbit/s

95th percentile per-packet one-way delay: 97.485 ms

Loss rate: 28.62%

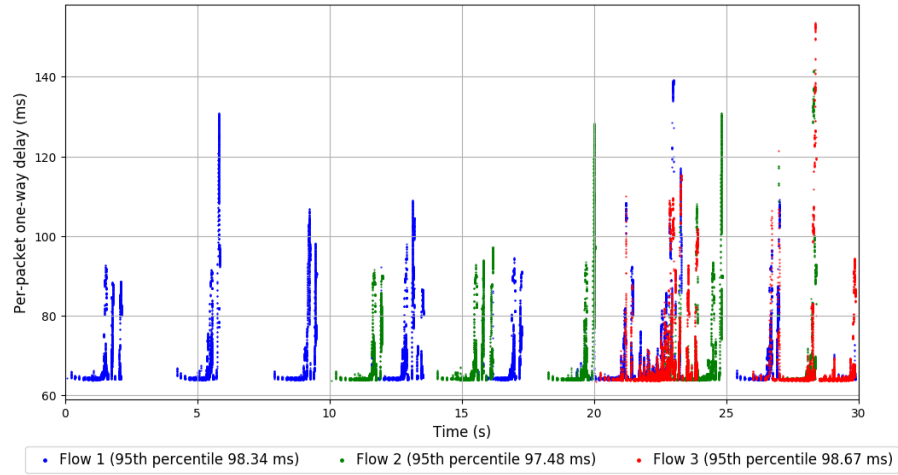
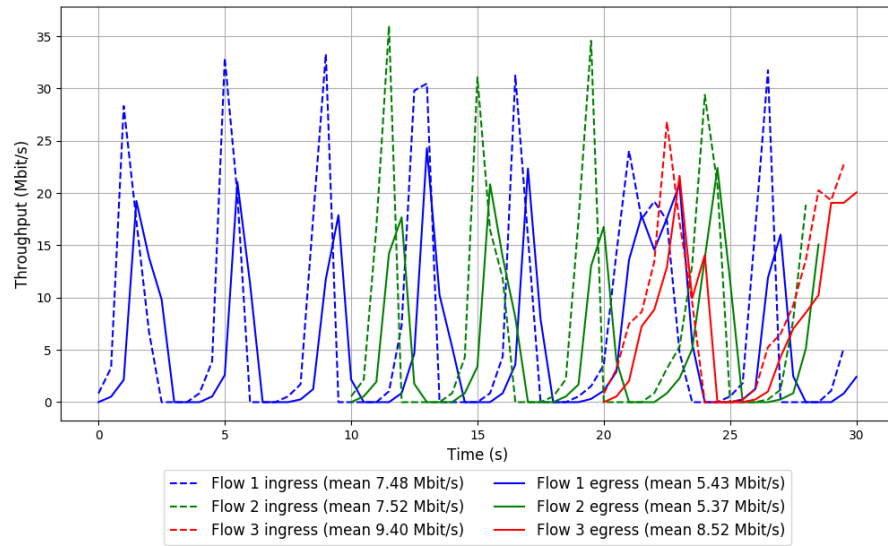
-- Flow 3:

Average throughput: 8.52 Mbit/s

95th percentile per-packet one-way delay: 98.671 ms

Loss rate: 10.07%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-07-18 09:03:52

End at: 2018-07-18 09:04:22

Local clock offset: 5.541 ms

Remote clock offset: 0.152 ms

Below is generated by plot.py at 2018-07-18 14:15:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.65 Mbit/s

95th percentile per-packet one-way delay: 66.056 ms

Loss rate: 1.48%

-- Flow 1:

Average throughput: 1.05 Mbit/s

95th percentile per-packet one-way delay: 65.294 ms

Loss rate: 1.65%

-- Flow 2:

Average throughput: 1.66 Mbit/s

95th percentile per-packet one-way delay: 65.624 ms

Loss rate: 1.09%

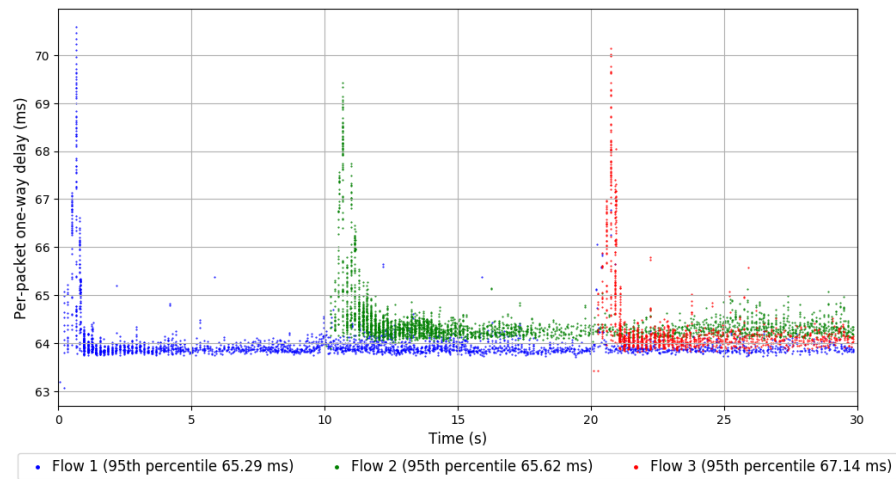
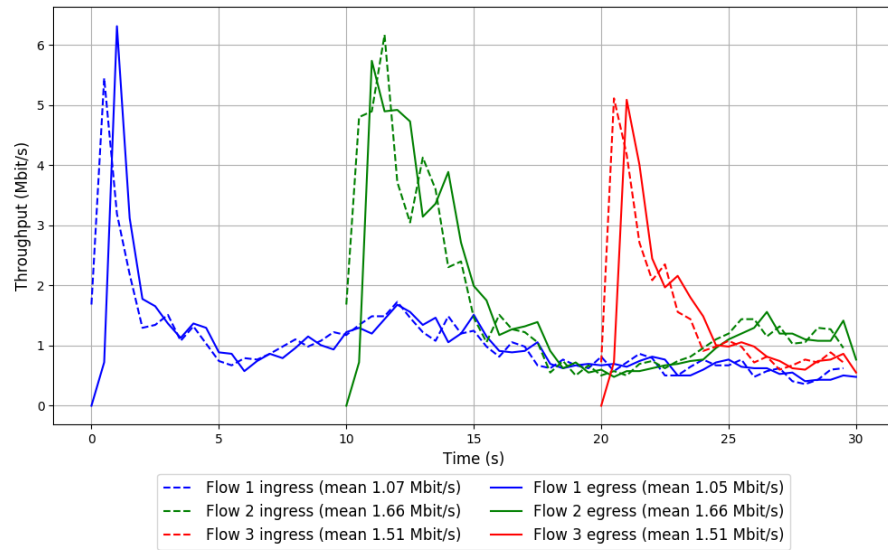
-- Flow 3:

Average throughput: 1.51 Mbit/s

95th percentile per-packet one-way delay: 67.145 ms

Loss rate: 2.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-07-18 09:33:09

End at: 2018-07-18 09:33:39

Local clock offset: 7.781 ms

Remote clock offset: 0.915 ms

Below is generated by plot.py at 2018-07-18 14:15:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.60 Mbit/s

95th percentile per-packet one-way delay: 73.525 ms

Loss rate: 1.01%

-- Flow 1:

Average throughput: 1.87 Mbit/s

95th percentile per-packet one-way delay: 73.447 ms

Loss rate: 0.92%

-- Flow 2:

Average throughput: 2.84 Mbit/s

95th percentile per-packet one-way delay: 76.378 ms

Loss rate: 0.93%

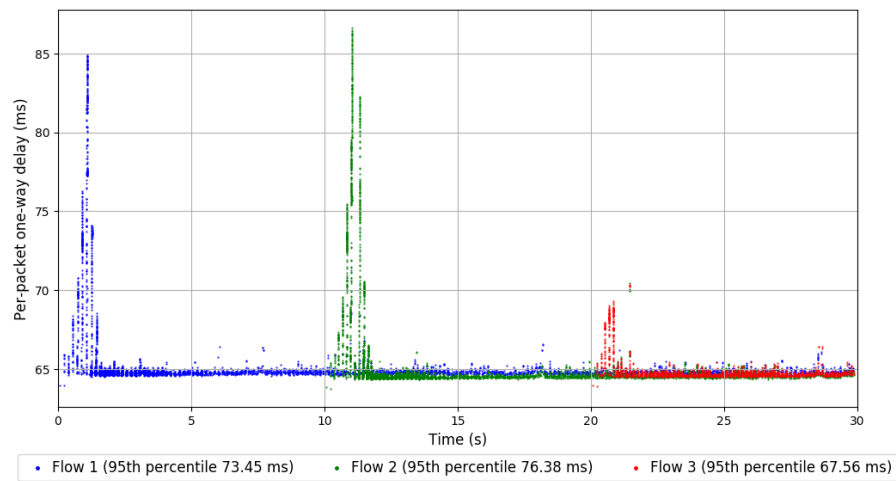
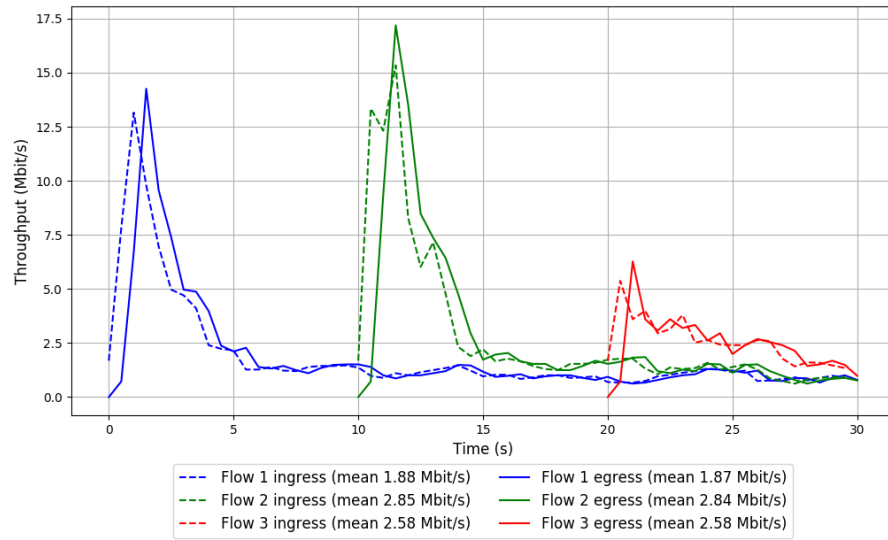
-- Flow 3:

Average throughput: 2.58 Mbit/s

95th percentile per-packet one-way delay: 67.556 ms

Loss rate: 1.40%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-07-18 10:01:15

End at: 2018-07-18 10:01:45

Local clock offset: -0.234 ms

Remote clock offset: 1.612 ms

Below is generated by plot.py at 2018-07-18 14:15:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.58 Mbit/s

95th percentile per-packet one-way delay: 71.532 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 2.44 Mbit/s

95th percentile per-packet one-way delay: 72.831 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 2.82 Mbit/s

95th percentile per-packet one-way delay: 71.164 ms

Loss rate: 1.00%

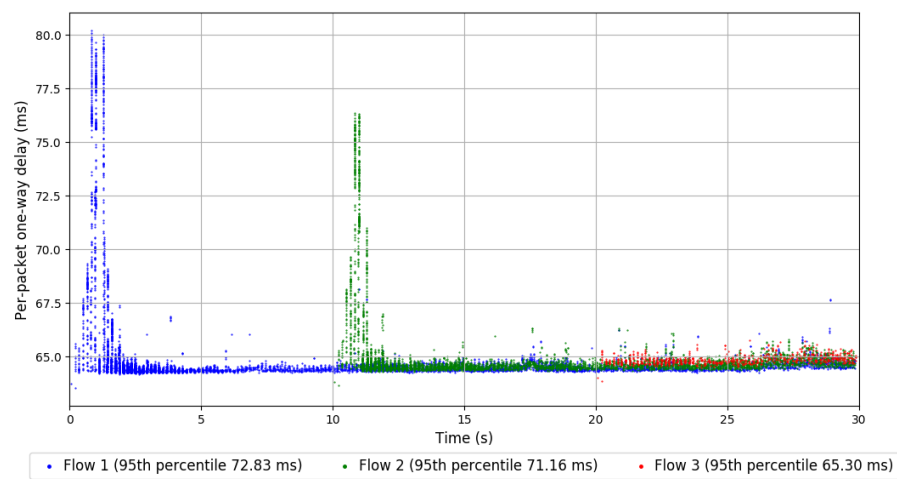
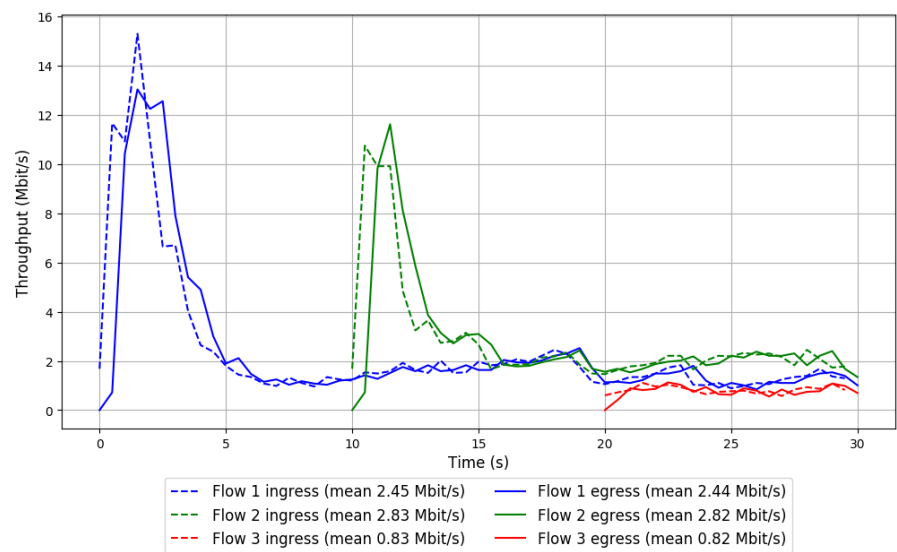
-- Flow 3:

Average throughput: 0.82 Mbit/s

95th percentile per-packet one-way delay: 65.301 ms

Loss rate: 2.48%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-07-18 10:30:55

End at: 2018-07-18 10:31:25

Local clock offset: 0.397 ms

Remote clock offset: 1.904 ms

Below is generated by plot.py at 2018-07-18 14:15:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.52 Mbit/s

95th percentile per-packet one-way delay: 68.696 ms

Loss rate: 1.51%

-- Flow 1:

Average throughput: 0.89 Mbit/s

95th percentile per-packet one-way delay: 64.656 ms

Loss rate: 1.61%

-- Flow 2:

Average throughput: 1.38 Mbit/s

95th percentile per-packet one-way delay: 64.941 ms

Loss rate: 1.21%

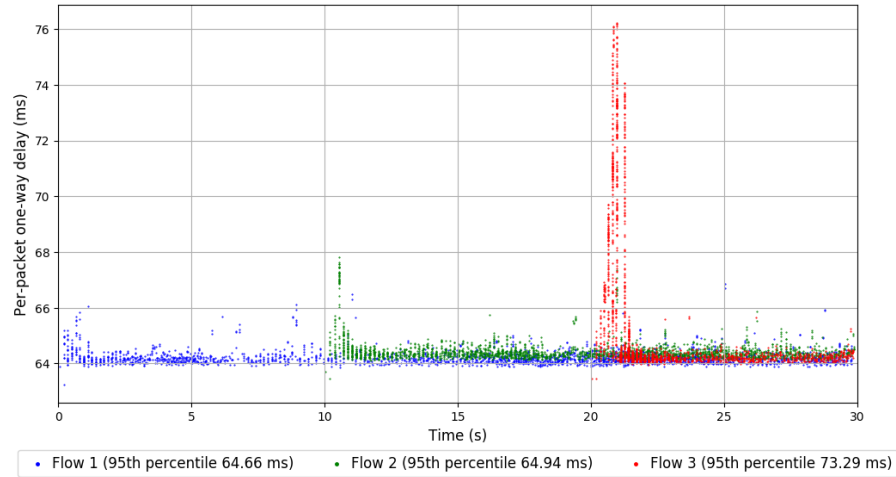
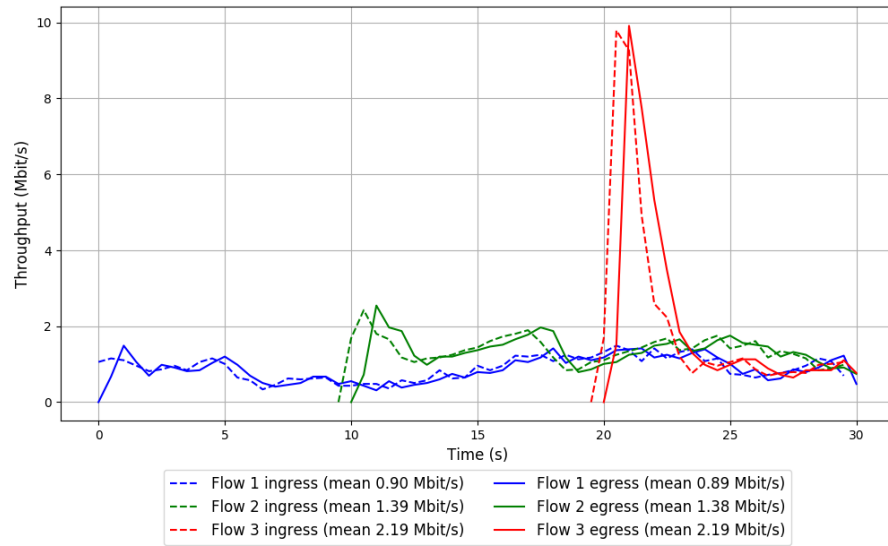
-- Flow 3:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 73.286 ms

Loss rate: 1.76%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-07-18 11:02:12

End at: 2018-07-18 11:02:42

Local clock offset: 3.64 ms

Remote clock offset: 1.938 ms

Below is generated by plot.py at 2018-07-18 14:15:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.70 Mbit/s

95th percentile per-packet one-way delay: 69.278 ms

Loss rate: 1.51%

-- Flow 1:

Average throughput: 1.56 Mbit/s

95th percentile per-packet one-way delay: 65.890 ms

Loss rate: 1.07%

-- Flow 2:

Average throughput: 0.70 Mbit/s

95th percentile per-packet one-way delay: 64.745 ms

Loss rate: 2.30%

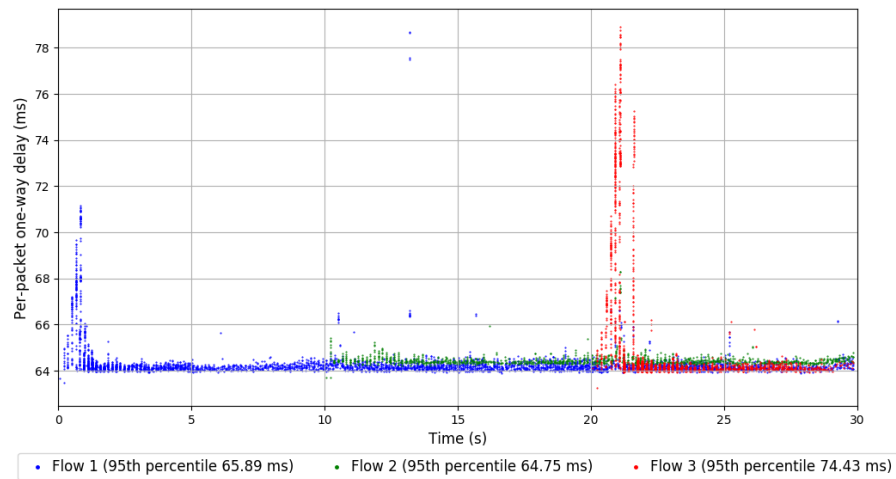
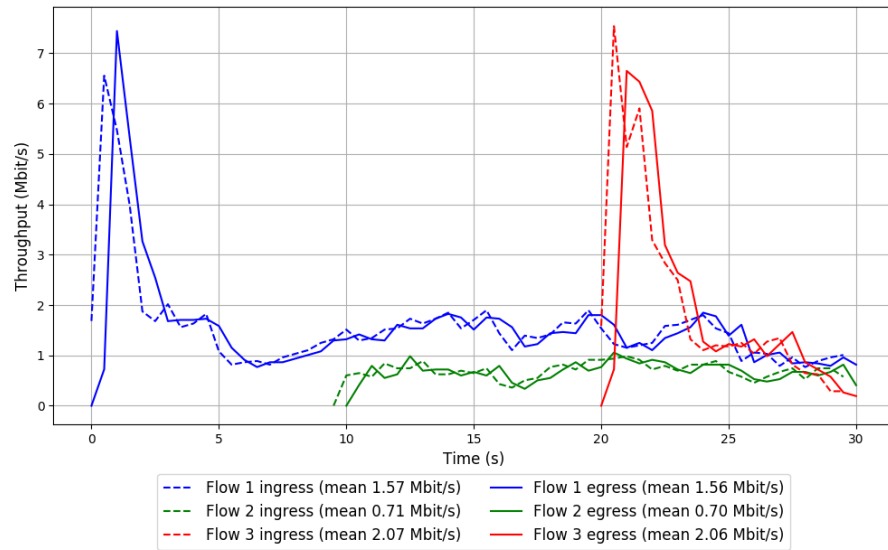
-- Flow 3:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 74.426 ms

Loss rate: 1.98%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-07-18 11:34:50

End at: 2018-07-18 11:35:20

Local clock offset: 9.419 ms

Remote clock offset: 1.68 ms

Below is generated by plot.py at 2018-07-18 14:15:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.76 Mbit/s

95th percentile per-packet one-way delay: 67.507 ms

Loss rate: 1.38%

-- Flow 1:

Average throughput: 1.63 Mbit/s

95th percentile per-packet one-way delay: 69.095 ms

Loss rate: 1.15%

-- Flow 2:

Average throughput: 1.03 Mbit/s

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

Loss rate: 1.51%

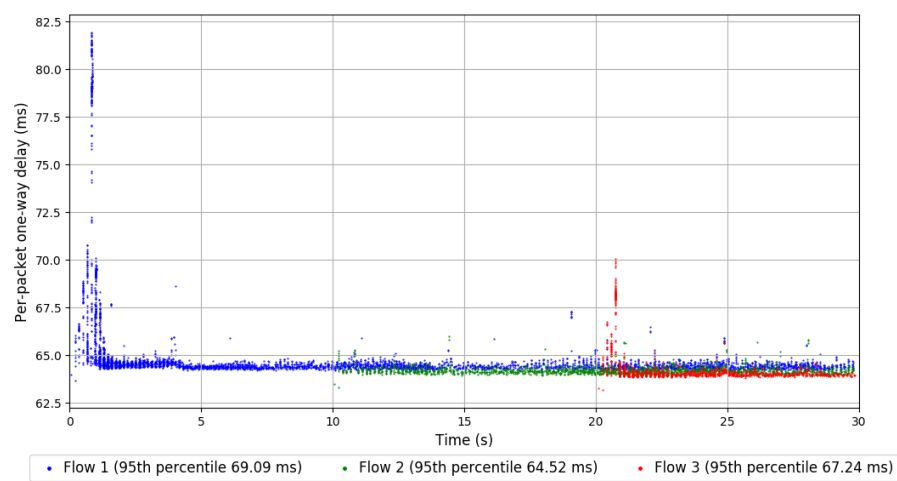
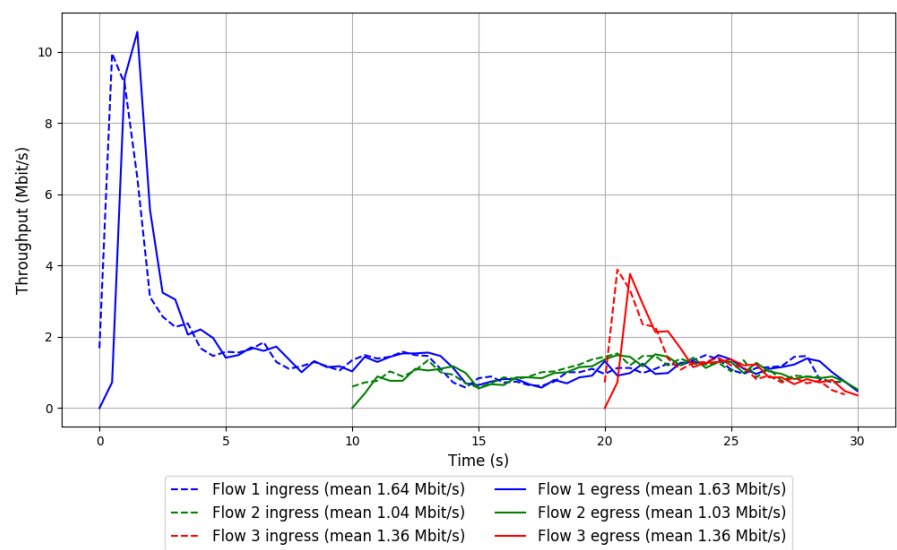
-- Flow 3:

Average throughput: 1.36 Mbit/s

95th percentile per-packet one-way delay: 67.236 ms

Loss rate: 2.04%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-07-18 12:05:18

End at: 2018-07-18 12:05:48

Local clock offset: 3.562 ms

Remote clock offset: 1.384 ms

Below is generated by plot.py at 2018-07-18 14:15:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.82 Mbit/s

95th percentile per-packet one-way delay: 66.118 ms

Loss rate: 1.37%

-- Flow 1:

Average throughput: 1.23 Mbit/s

95th percentile per-packet one-way delay: 64.675 ms

Loss rate: 1.29%

-- Flow 2:

Average throughput: 1.90 Mbit/s

95th percentile per-packet one-way delay: 67.261 ms

Loss rate: 1.17%

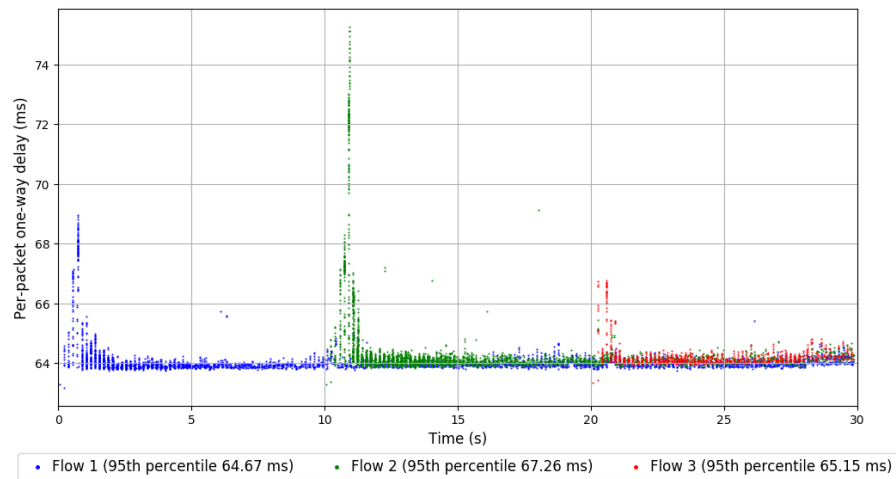
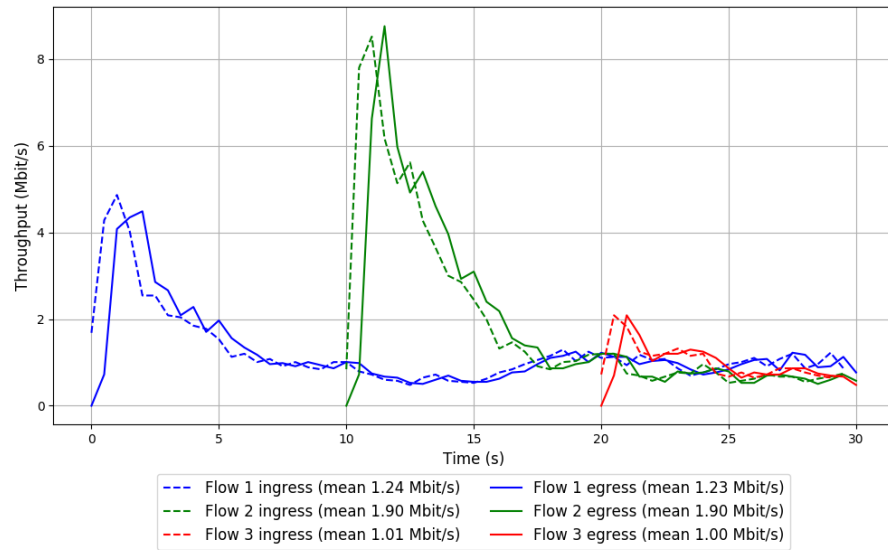
-- Flow 3:

Average throughput: 1.00 Mbit/s

95th percentile per-packet one-way delay: 65.154 ms

Loss rate: 2.40%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-07-18 12:38:35

End at: 2018-07-18 12:39:05

Local clock offset: 6.282 ms

Remote clock offset: 1.258 ms

Below is generated by plot.py at 2018-07-18 14:15:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 67.288 ms

Loss rate: 1.97%

-- Flow 1:

Average throughput: 0.77 Mbit/s

95th percentile per-packet one-way delay: 65.281 ms

Loss rate: 1.99%

-- Flow 2:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 72.503 ms

Loss rate: 2.07%

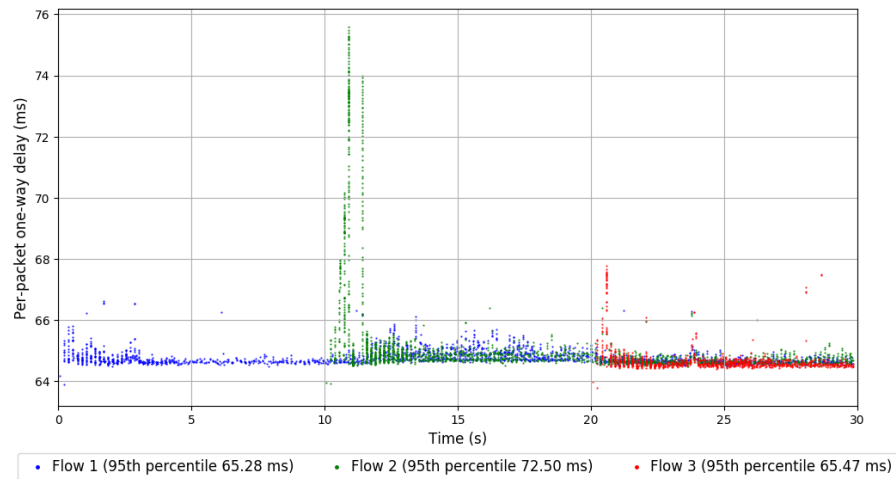
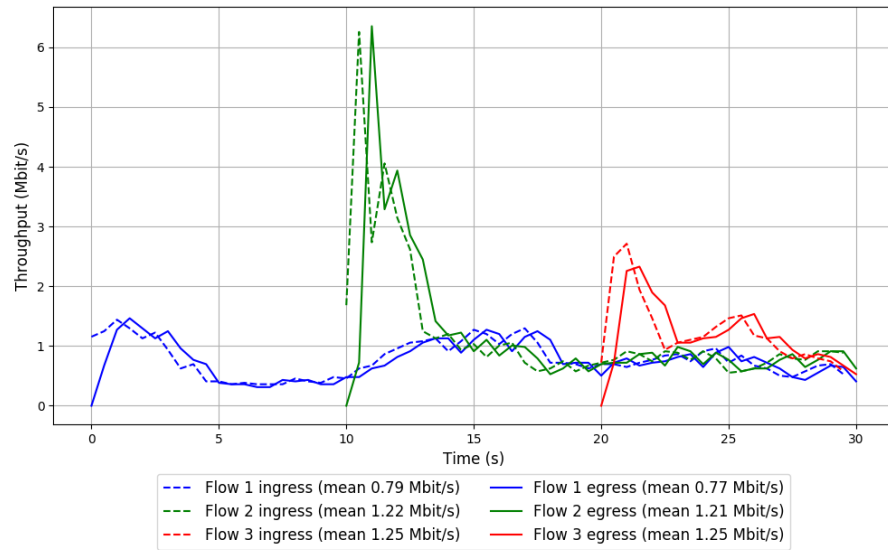
-- Flow 3:

Average throughput: 1.25 Mbit/s

95th percentile per-packet one-way delay: 65.474 ms

Loss rate: 1.74%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-07-18 13:09:59

End at: 2018-07-18 13:10:29

Local clock offset: 7.485 ms

Remote clock offset: 1.094 ms

Below is generated by plot.py at 2018-07-18 14:15:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.94 Mbit/s

95th percentile per-packet one-way delay: 67.461 ms

Loss rate: 1.10%

-- Flow 1:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 64.684 ms

Loss rate: 1.03%

-- Flow 2:

Average throughput: 2.88 Mbit/s

95th percentile per-packet one-way delay: 70.675 ms

Loss rate: 0.94%

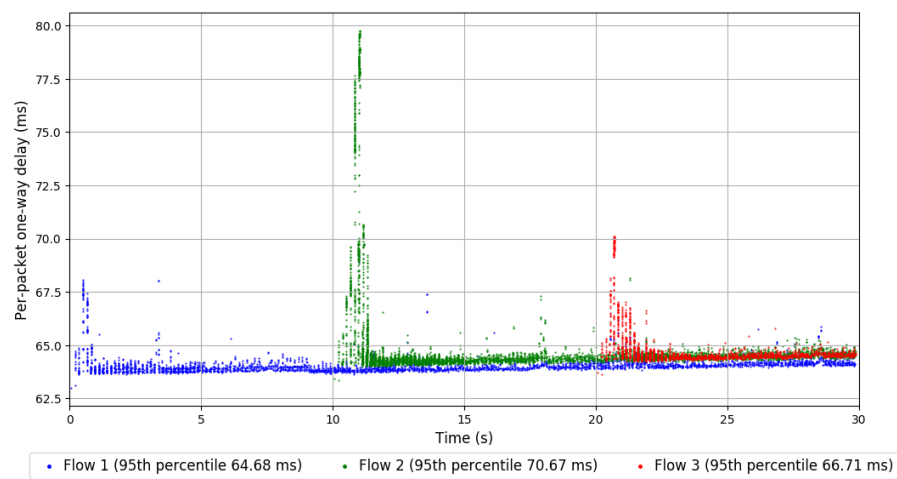
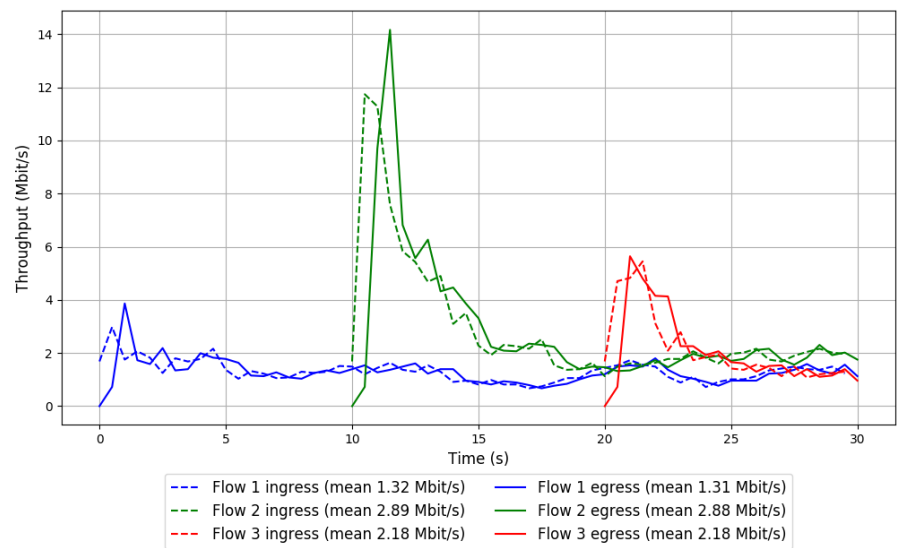
-- Flow 3:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 66.712 ms

Loss rate: 1.66%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-07-18 13:40:25

End at: 2018-07-18 13:40:55

Local clock offset: -3.124 ms

Remote clock offset: 0.775 ms

Below is generated by plot.py at 2018-07-18 14:15:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.46 Mbit/s

95th percentile per-packet one-way delay: 64.646 ms

Loss rate: 1.66%

-- Flow 1:

Average throughput: 1.33 Mbit/s

95th percentile per-packet one-way delay: 64.706 ms

Loss rate: 1.34%

-- Flow 2:

Average throughput: 1.11 Mbit/s

95th percentile per-packet one-way delay: 64.385 ms

Loss rate: 1.82%

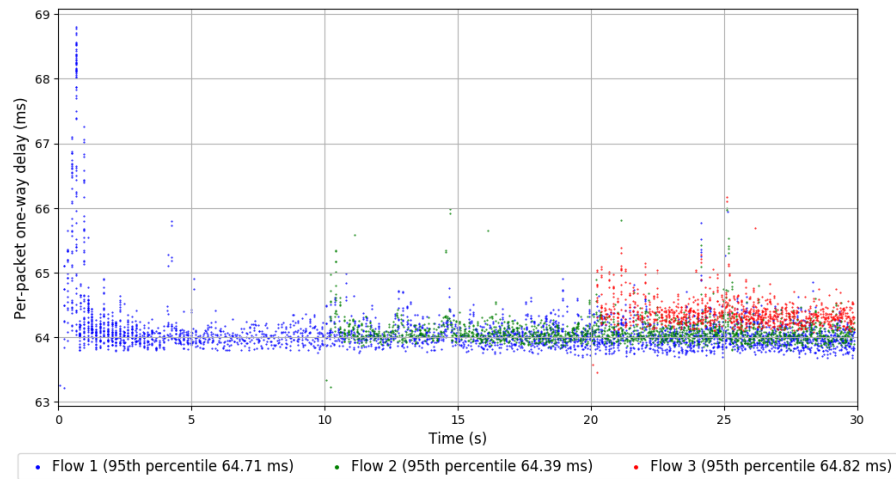
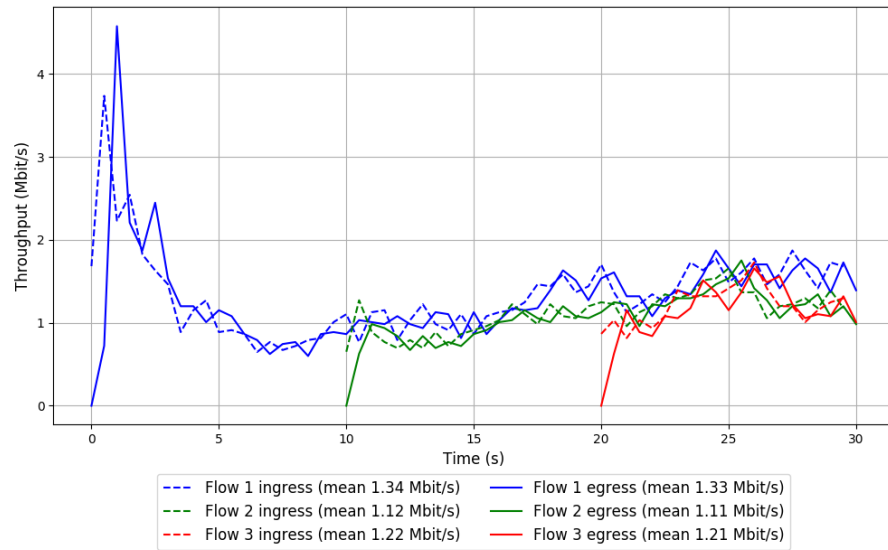
-- Flow 3:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 64.818 ms

Loss rate: 2.37%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-07-18 09:24:11

End at: 2018-07-18 09:24:41

Local clock offset: 7.133 ms

Remote clock offset: 0.713 ms

Below is generated by plot.py at 2018-07-18 14:16:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 45.16 Mbit/s

95th percentile per-packet one-way delay: 111.921 ms

Loss rate: 30.33%

-- Flow 1:

Average throughput: 27.82 Mbit/s

95th percentile per-packet one-way delay: 107.387 ms

Loss rate: 28.46%

-- Flow 2:

Average throughput: 18.66 Mbit/s

95th percentile per-packet one-way delay: 111.952 ms

Loss rate: 32.29%

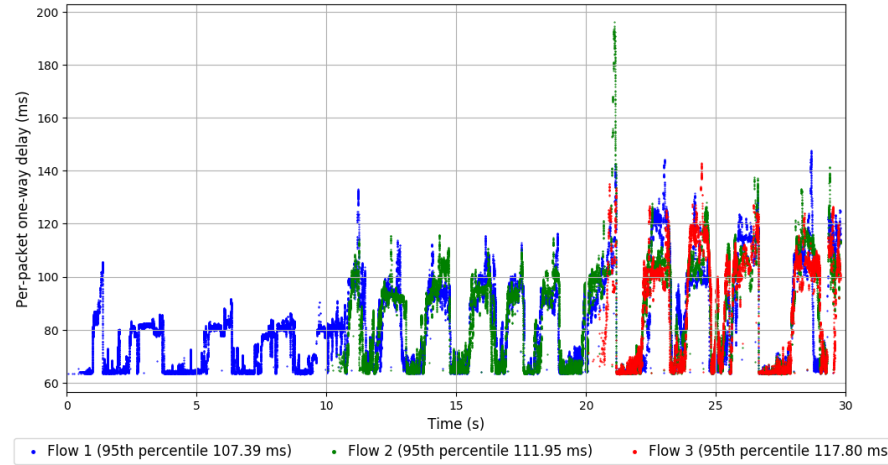
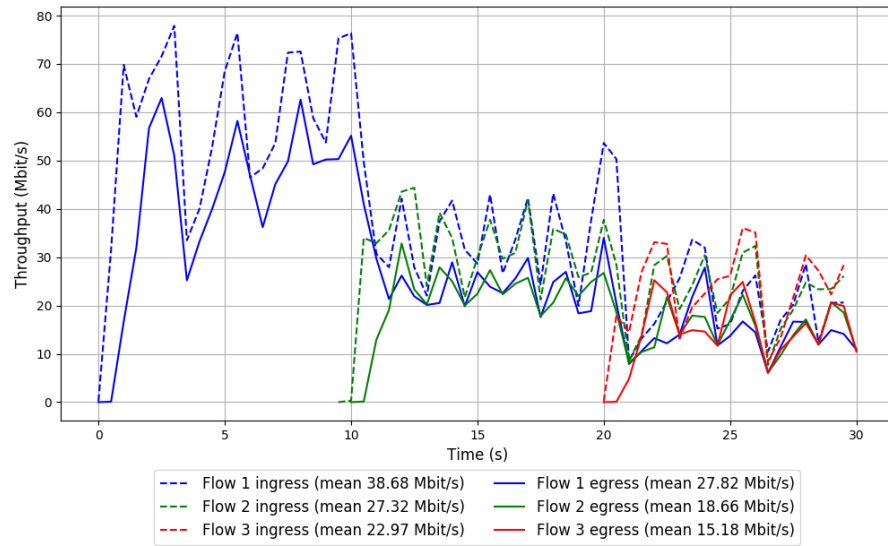
-- Flow 3:

Average throughput: 15.18 Mbit/s

95th percentile per-packet one-way delay: 117.799 ms

Loss rate: 35.16%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-07-18 09:53:03

End at: 2018-07-18 09:53:33

Local clock offset: 1.395 ms

Remote clock offset: 1.513 ms

Below is generated by plot.py at 2018-07-18 14:16:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 40.76 Mbit/s

95th percentile per-packet one-way delay: 114.995 ms

Loss rate: 35.84%

-- Flow 1:

Average throughput: 24.83 Mbit/s

95th percentile per-packet one-way delay: 111.429 ms

Loss rate: 32.84%

-- Flow 2:

Average throughput: 17.42 Mbit/s

95th percentile per-packet one-way delay: 113.683 ms

Loss rate: 41.96%

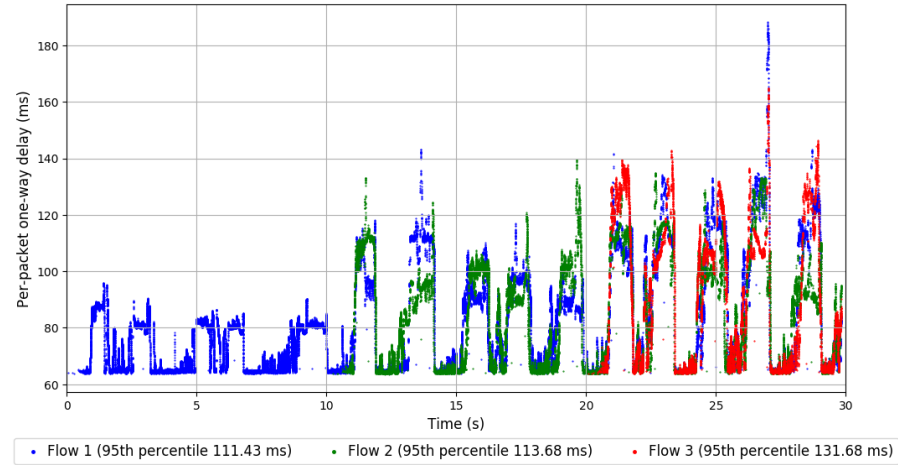
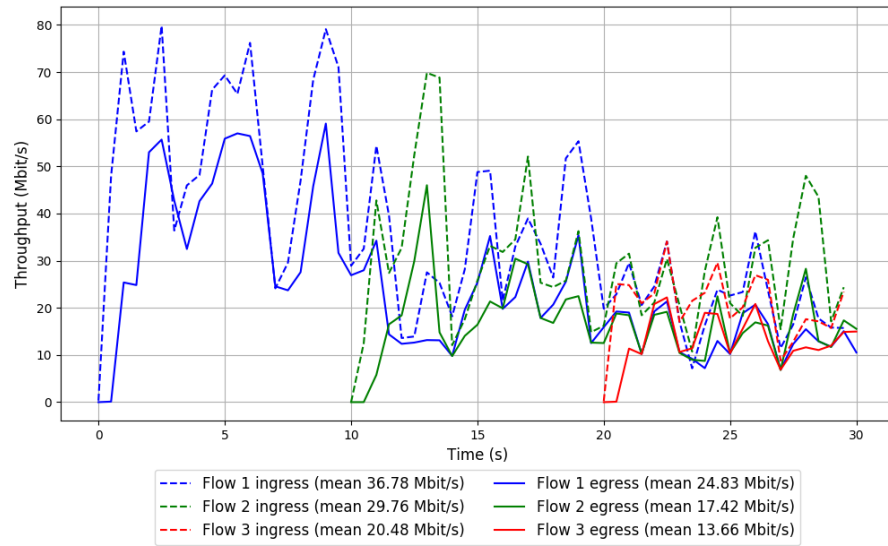
-- Flow 3:

Average throughput: 13.66 Mbit/s

95th percentile per-packet one-way delay: 131.676 ms

Loss rate: 34.36%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-07-18 10:21:10

End at: 2018-07-18 10:21:40

Local clock offset: 0.04 ms

Remote clock offset: 1.829 ms

Below is generated by plot.py at 2018-07-18 14:16:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 43.99 Mbit/s

95th percentile per-packet one-way delay: 115.340 ms

Loss rate: 31.87%

-- Flow 1:

Average throughput: 27.41 Mbit/s

95th percentile per-packet one-way delay: 107.383 ms

Loss rate: 30.70%

-- Flow 2:

Average throughput: 17.80 Mbit/s

95th percentile per-packet one-way delay: 116.550 ms

Loss rate: 32.33%

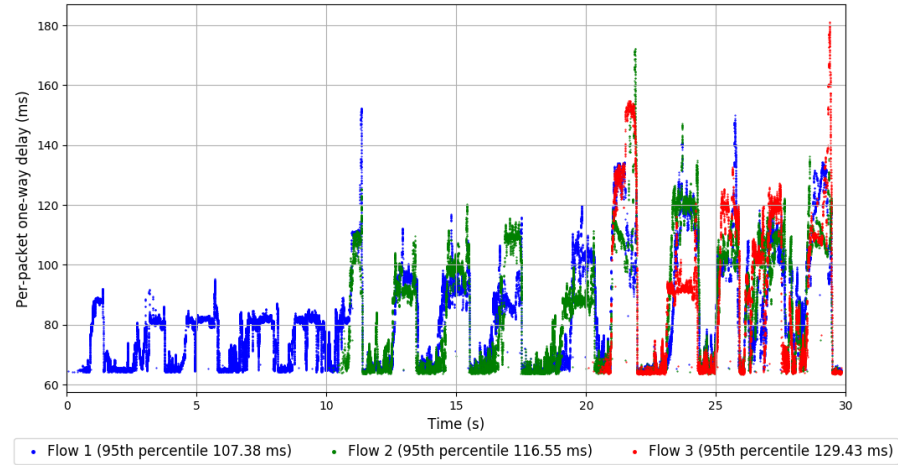
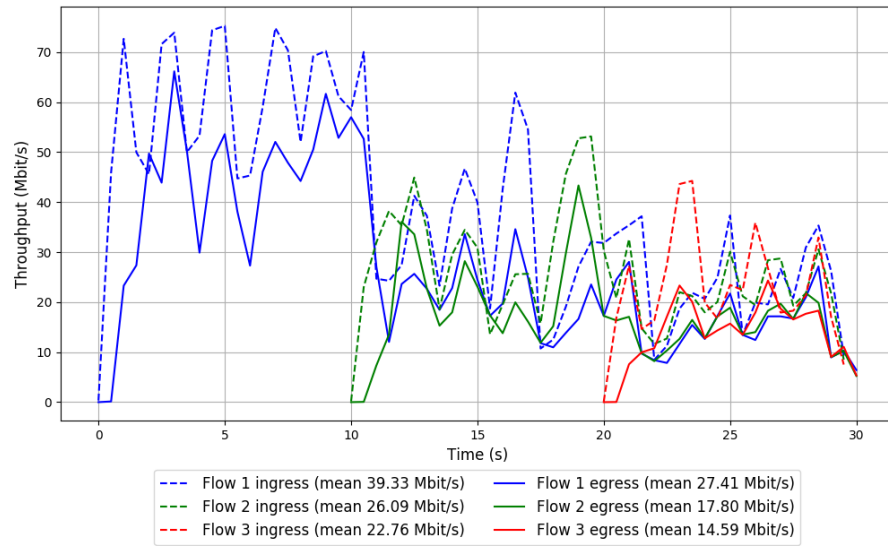
-- Flow 3:

Average throughput: 14.59 Mbit/s

95th percentile per-packet one-way delay: 129.428 ms

Loss rate: 36.98%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-07-18 10:52:38

End at: 2018-07-18 10:53:08

Local clock offset: 2.568 ms

Remote clock offset: 1.974 ms

Below is generated by plot.py at 2018-07-18 14:16:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 43.12 Mbit/s

95th percentile per-packet one-way delay: 114.666 ms

Loss rate: 33.04%

-- Flow 1:

Average throughput: 26.18 Mbit/s

95th percentile per-packet one-way delay: 107.992 ms

Loss rate: 30.28%

-- Flow 2:

Average throughput: 18.94 Mbit/s

95th percentile per-packet one-way delay: 111.849 ms

Loss rate: 37.65%

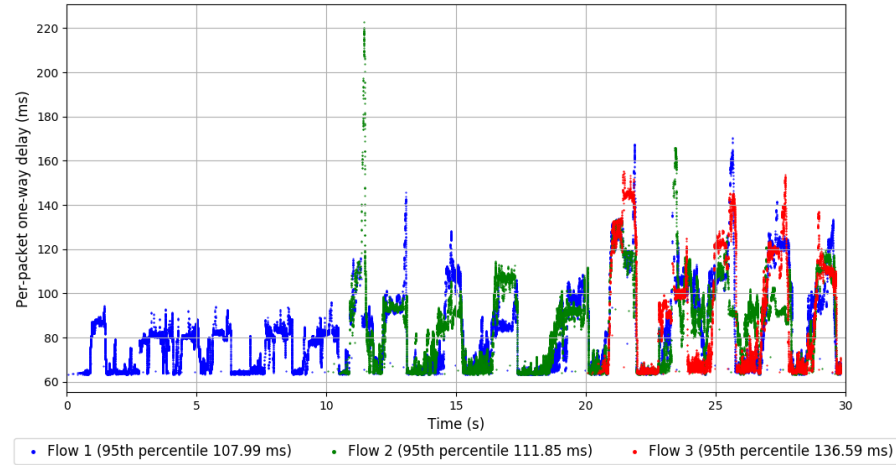
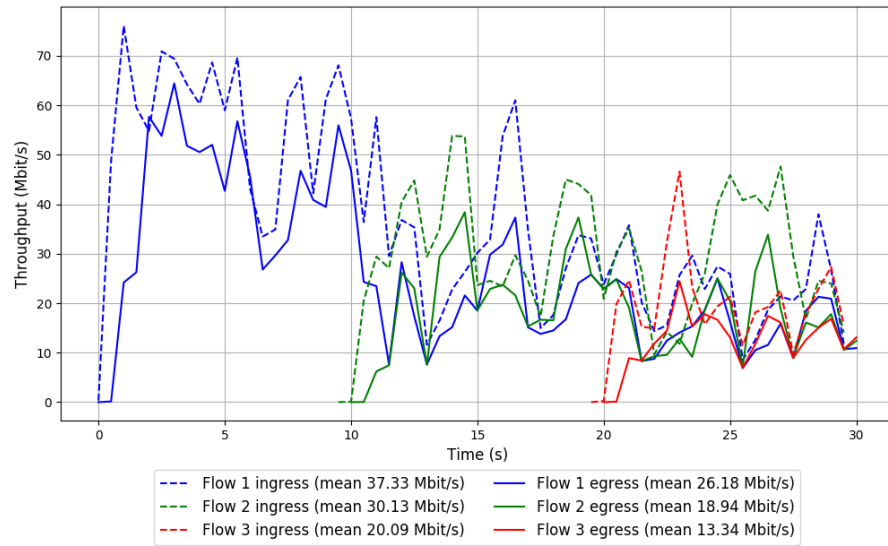
-- Flow 3:

Average throughput: 13.34 Mbit/s

95th percentile per-packet one-way delay: 136.585 ms

Loss rate: 34.61%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-07-18 11:24:24

End at: 2018-07-18 11:24:54

Local clock offset: 8.155 ms

Remote clock offset: 1.796 ms

Below is generated by plot.py at 2018-07-18 14:16:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 45.93 Mbit/s

95th percentile per-packet one-way delay: 115.470 ms

Loss rate: 28.21%

-- Flow 1:

Average throughput: 29.36 Mbit/s

95th percentile per-packet one-way delay: 109.368 ms

Loss rate: 27.24%

-- Flow 2:

Average throughput: 17.84 Mbit/s

95th percentile per-packet one-way delay: 119.139 ms

Loss rate: 27.91%

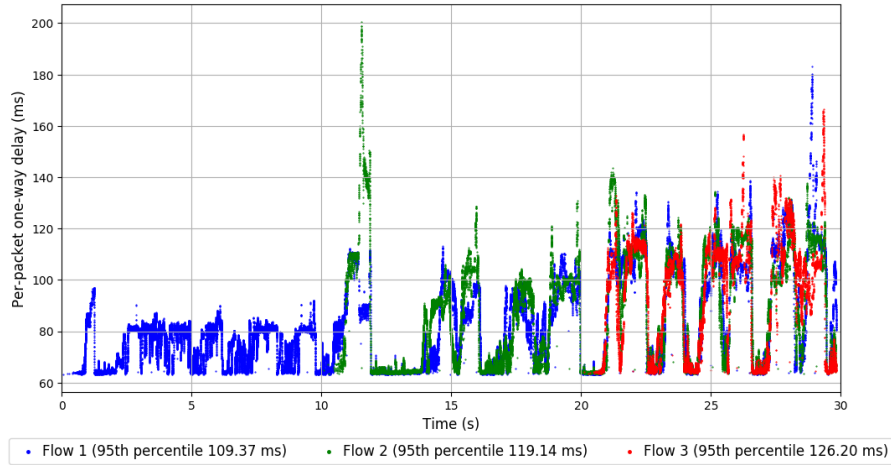
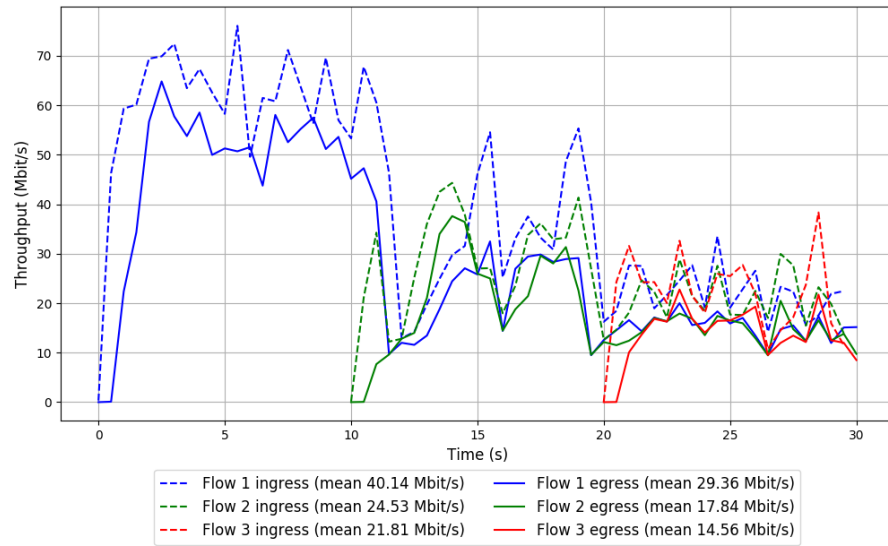
-- Flow 3:

Average throughput: 14.56 Mbit/s

95th percentile per-packet one-way delay: 126.201 ms

Loss rate: 34.30%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-07-18 11:55:49

End at: 2018-07-18 11:56:19

Local clock offset: 4.58 ms

Remote clock offset: 1.549 ms

Below is generated by plot.py at 2018-07-18 14:16:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.74 Mbit/s

95th percentile per-packet one-way delay: 116.010 ms

Loss rate: 34.42%

-- Flow 1:

Average throughput: 26.09 Mbit/s

95th percentile per-packet one-way delay: 109.276 ms

Loss rate: 32.61%

-- Flow 2:

Average throughput: 16.42 Mbit/s

95th percentile per-packet one-way delay: 122.553 ms

Loss rate: 38.37%

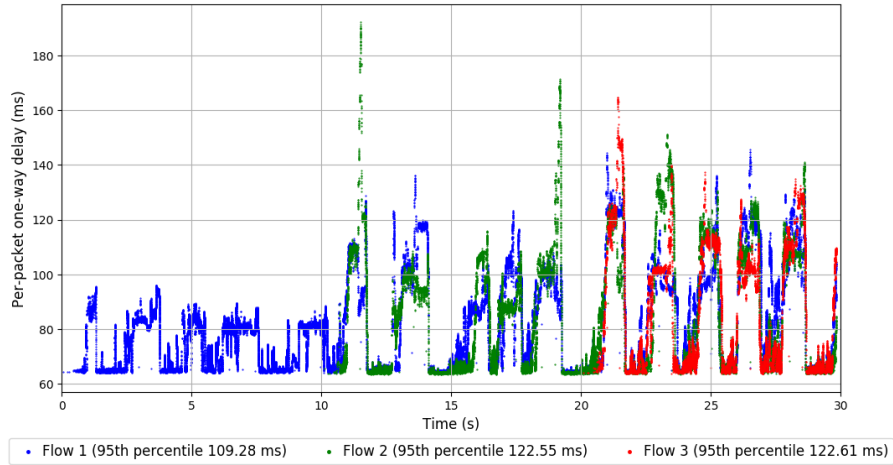
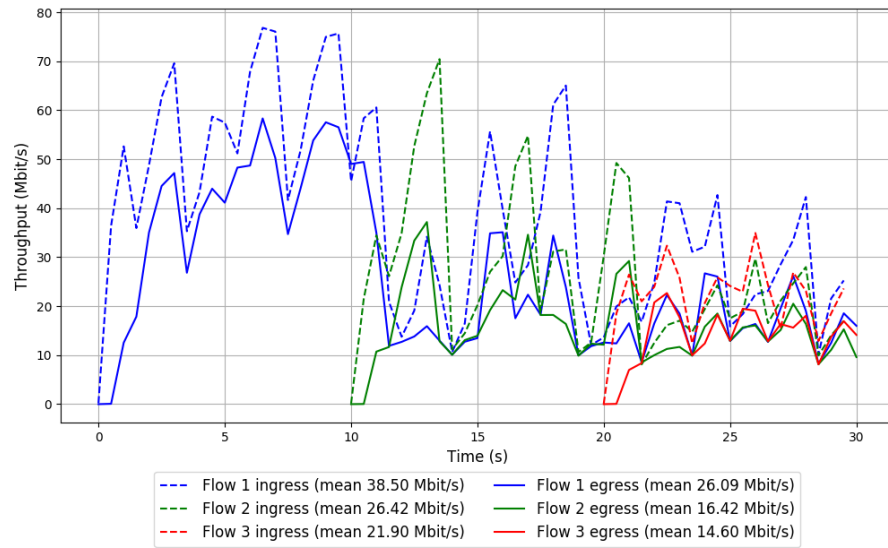
-- Flow 3:

Average throughput: 14.60 Mbit/s

95th percentile per-packet one-way delay: 122.615 ms

Loss rate: 34.46%

Run 6: Report of FillP — Data Link

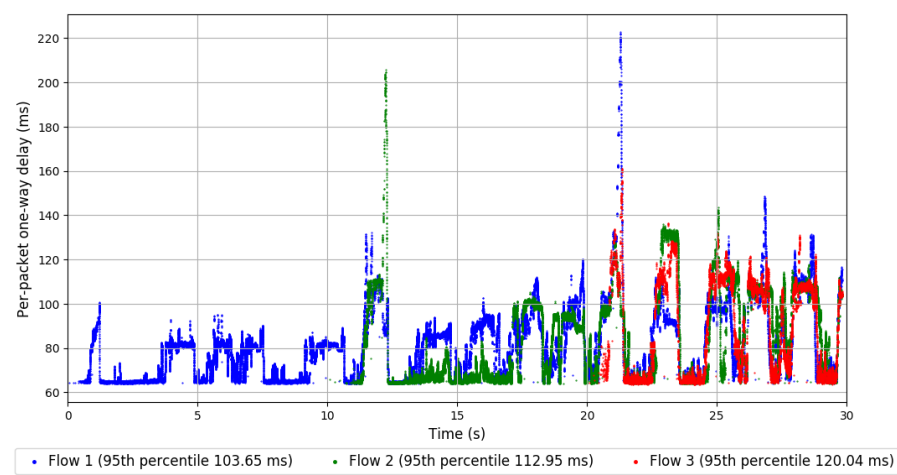
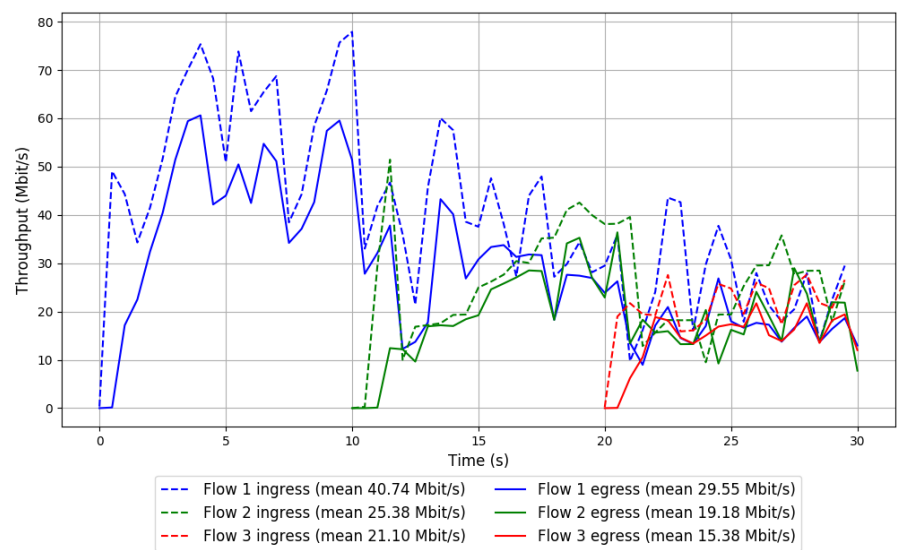


Run 7: Statistics of FillP

Start at: 2018-07-18 12:27:54
End at: 2018-07-18 12:28:24
Local clock offset: 5.752 ms
Remote clock offset: 1.318 ms

Below is generated by plot.py at 2018-07-18 14:16:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 47.30 Mbit/s
95th percentile per-packet one-way delay: 110.779 ms
Loss rate: 27.19%
-- Flow 1:
Average throughput: 29.55 Mbit/s
95th percentile per-packet one-way delay: 103.654 ms
Loss rate: 27.86%
-- Flow 2:
Average throughput: 19.18 Mbit/s
95th percentile per-packet one-way delay: 112.946 ms
Loss rate: 25.12%
-- Flow 3:
Average throughput: 15.38 Mbit/s
95th percentile per-packet one-way delay: 120.042 ms
Loss rate: 28.27%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-07-18 13:00:20

End at: 2018-07-18 13:00:50

Local clock offset: 7.589 ms

Remote clock offset: 1.16 ms

Below is generated by plot.py at 2018-07-18 14:16:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 47.74 Mbit/s

95th percentile per-packet one-way delay: 114.317 ms

Loss rate: 29.28%

-- Flow 1:

Average throughput: 29.64 Mbit/s

95th percentile per-packet one-way delay: 109.577 ms

Loss rate: 28.82%

-- Flow 2:

Average throughput: 19.20 Mbit/s

95th percentile per-packet one-way delay: 118.189 ms

Loss rate: 30.33%

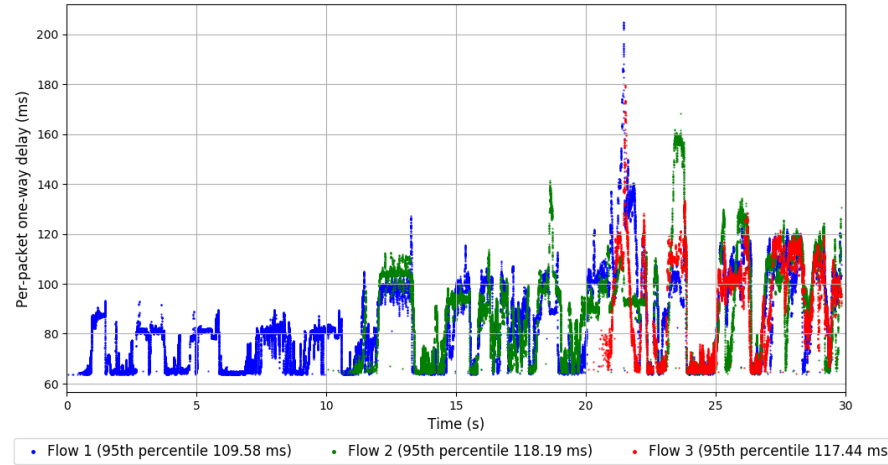
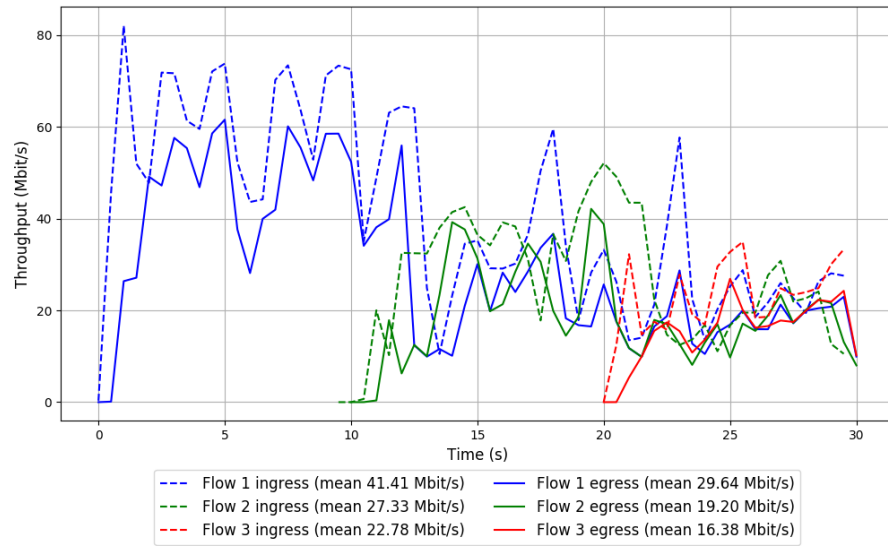
-- Flow 3:

Average throughput: 16.38 Mbit/s

95th percentile per-packet one-way delay: 117.443 ms

Loss rate: 29.31%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-07-18 13:30:56

End at: 2018-07-18 13:31:26

Local clock offset: -1.628 ms

Remote clock offset: 0.897 ms

Below is generated by plot.py at 2018-07-18 14:16:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 42.00 Mbit/s

95th percentile per-packet one-way delay: 113.920 ms

Loss rate: 32.54%

-- Flow 1:

Average throughput: 26.46 Mbit/s

95th percentile per-packet one-way delay: 110.629 ms

Loss rate: 28.66%

-- Flow 2:

Average throughput: 16.24 Mbit/s

95th percentile per-packet one-way delay: 115.684 ms

Loss rate: 37.49%

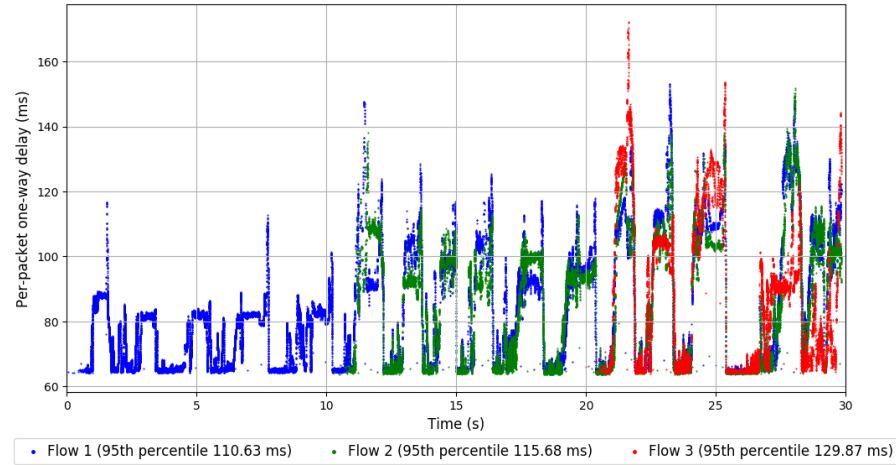
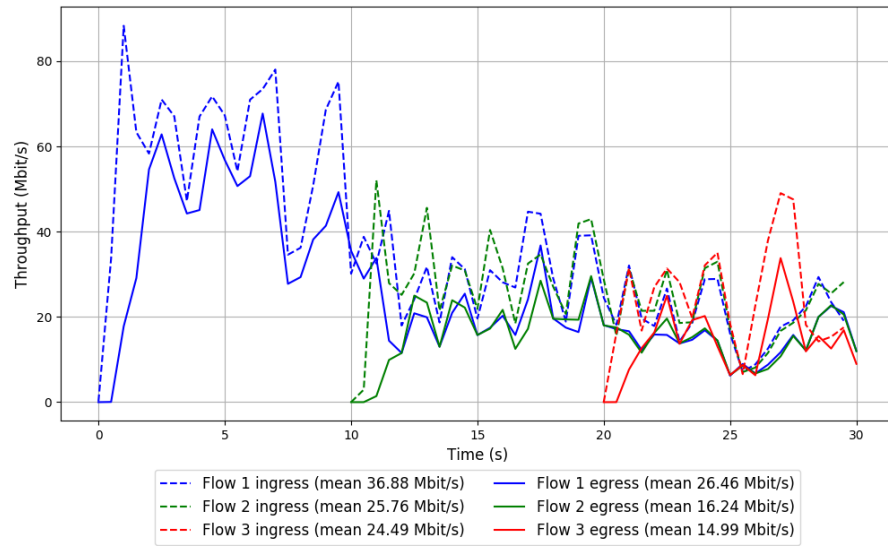
-- Flow 3:

Average throughput: 14.99 Mbit/s

95th percentile per-packet one-way delay: 129.871 ms

Loss rate: 39.82%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-07-18 14:02:20

End at: 2018-07-18 14:02:50

Local clock offset: -1.939 ms

Remote clock offset: 0.476 ms

Below is generated by plot.py at 2018-07-18 14:16:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 45.53 Mbit/s

95th percentile per-packet one-way delay: 111.933 ms

Loss rate: 31.15%

-- Flow 1:

Average throughput: 28.53 Mbit/s

95th percentile per-packet one-way delay: 105.668 ms

Loss rate: 29.59%

-- Flow 2:

Average throughput: 18.66 Mbit/s

95th percentile per-packet one-way delay: 111.423 ms

Loss rate: 34.27%

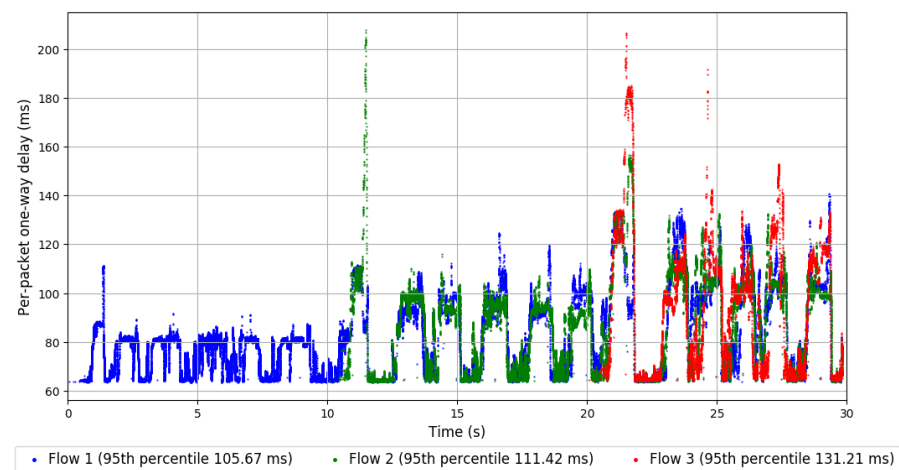
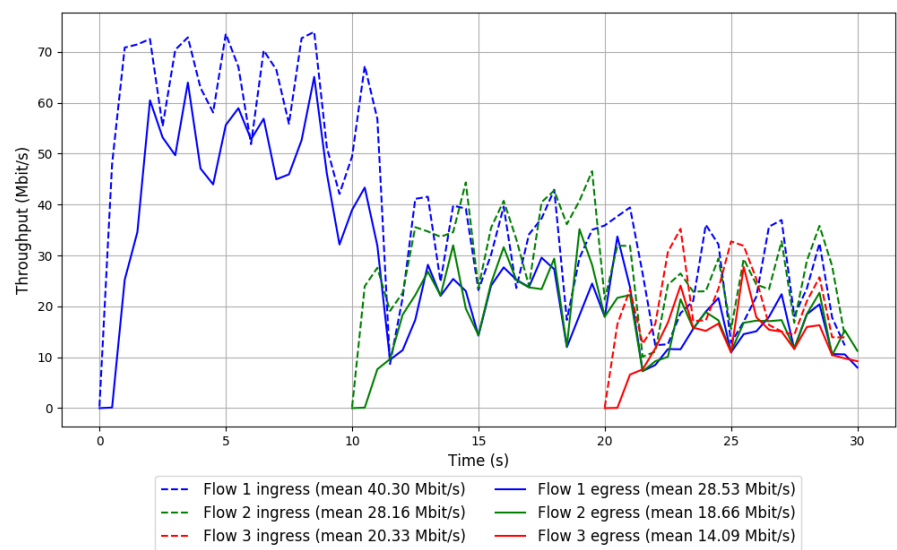
-- Flow 3:

Average throughput: 14.09 Mbit/s

95th percentile per-packet one-way delay: 131.211 ms

Loss rate: 31.87%

Run 10: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2018-07-18 09:27:27

End at: 2018-07-18 09:27:57

Local clock offset: 7.277 ms

Remote clock offset: 0.829 ms

Below is generated by plot.py at 2018-07-18 14:16:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.43 Mbit/s

95th percentile per-packet one-way delay: 118.883 ms

Loss rate: 28.71%

-- Flow 1:

Average throughput: 30.25 Mbit/s

95th percentile per-packet one-way delay: 113.219 ms

Loss rate: 31.13%

-- Flow 2:

Average throughput: 19.82 Mbit/s

95th percentile per-packet one-way delay: 121.361 ms

Loss rate: 23.30%

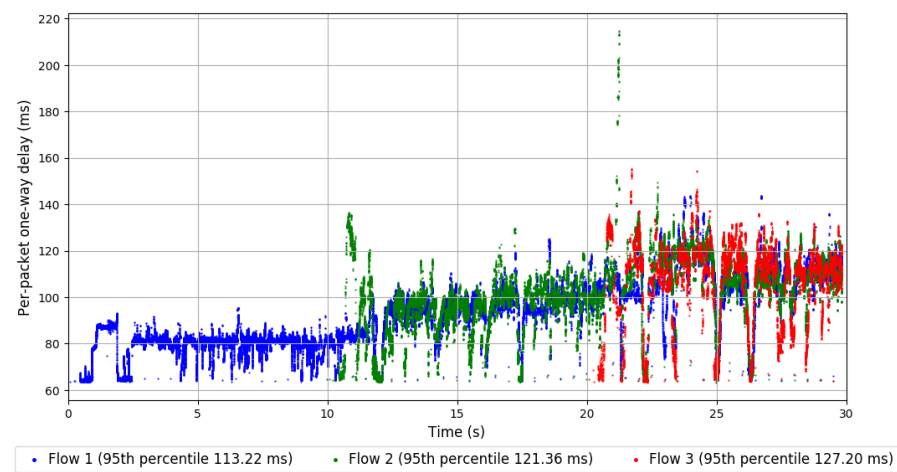
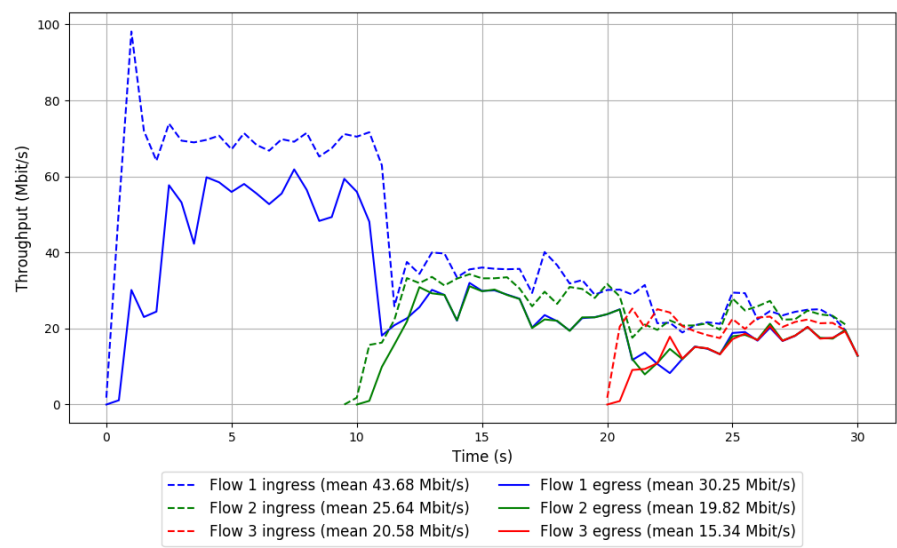
-- Flow 3:

Average throughput: 15.34 Mbit/s

95th percentile per-packet one-way delay: 127.204 ms

Loss rate: 26.69%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-07-18 09:55:54

End at: 2018-07-18 09:56:24

Local clock offset: 0.726 ms

Remote clock offset: 1.524 ms

Below is generated by plot.py at 2018-07-18 14:16:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 50.87 Mbit/s

95th percentile per-packet one-way delay: 116.034 ms

Loss rate: 26.64%

-- Flow 1:

Average throughput: 30.72 Mbit/s

95th percentile per-packet one-way delay: 112.931 ms

Loss rate: 28.65%

-- Flow 2:

Average throughput: 22.16 Mbit/s

95th percentile per-packet one-way delay: 116.804 ms

Loss rate: 23.85%

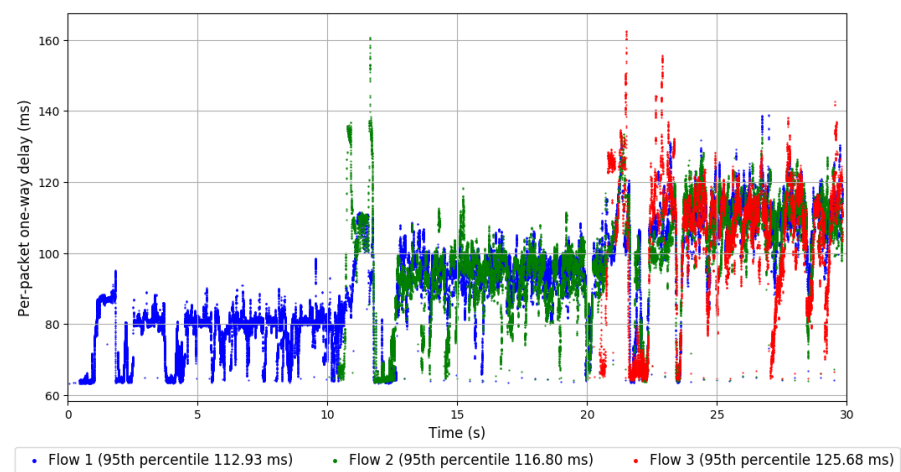
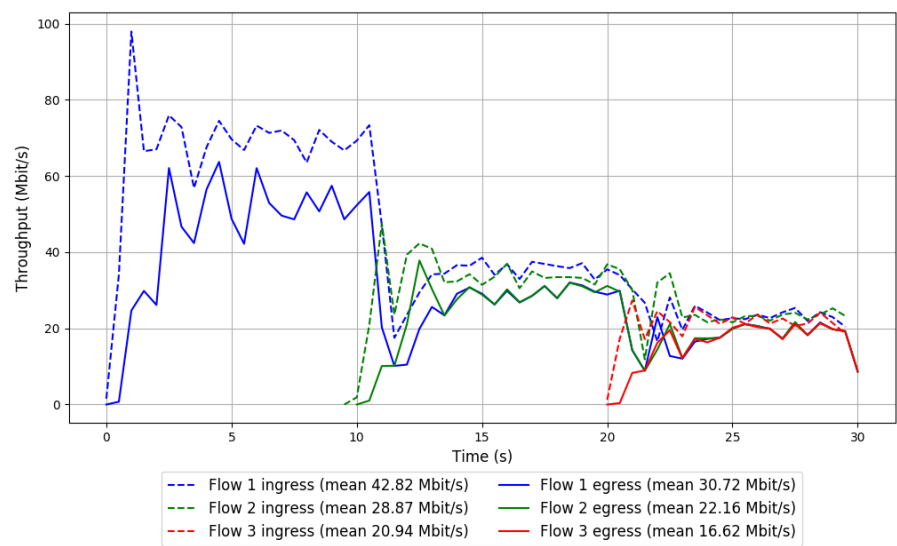
-- Flow 3:

Average throughput: 16.62 Mbit/s

95th percentile per-packet one-way delay: 125.683 ms

Loss rate: 21.96%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2018-07-18 10:24:28

End at: 2018-07-18 10:24:58

Local clock offset: 0.272 ms

Remote clock offset: 1.852 ms

Below is generated by plot.py at 2018-07-18 14:16:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.95 Mbit/s

95th percentile per-packet one-way delay: 122.006 ms

Loss rate: 25.66%

-- Flow 1:

Average throughput: 31.28 Mbit/s

95th percentile per-packet one-way delay: 118.776 ms

Loss rate: 26.63%

-- Flow 2:

Average throughput: 20.51 Mbit/s

95th percentile per-packet one-way delay: 123.604 ms

Loss rate: 24.45%

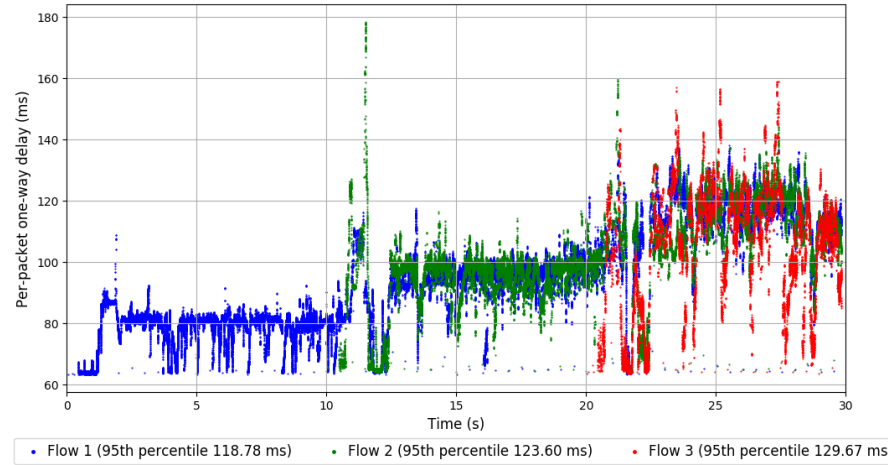
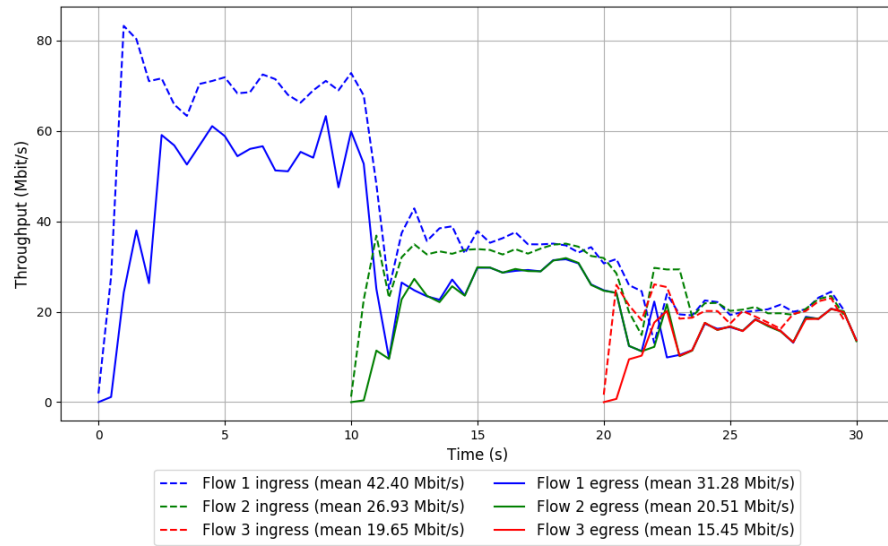
-- Flow 3:

Average throughput: 15.45 Mbit/s

95th percentile per-packet one-way delay: 129.669 ms

Loss rate: 22.67%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2018-07-18 10:56:08

End at: 2018-07-18 10:56:38

Local clock offset: 3.061 ms

Remote clock offset: 1.925 ms

Below is generated by plot.py at 2018-07-18 14:17:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 54.72 Mbit/s

95th percentile per-packet one-way delay: 114.204 ms

Loss rate: 21.23%

-- Flow 1:

Average throughput: 33.47 Mbit/s

95th percentile per-packet one-way delay: 112.873 ms

Loss rate: 22.64%

-- Flow 2:

Average throughput: 23.13 Mbit/s

95th percentile per-packet one-way delay: 113.175 ms

Loss rate: 21.42%

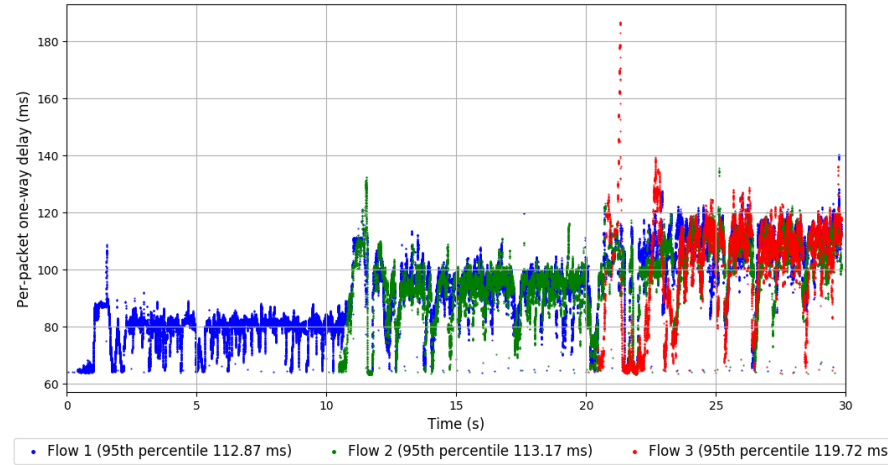
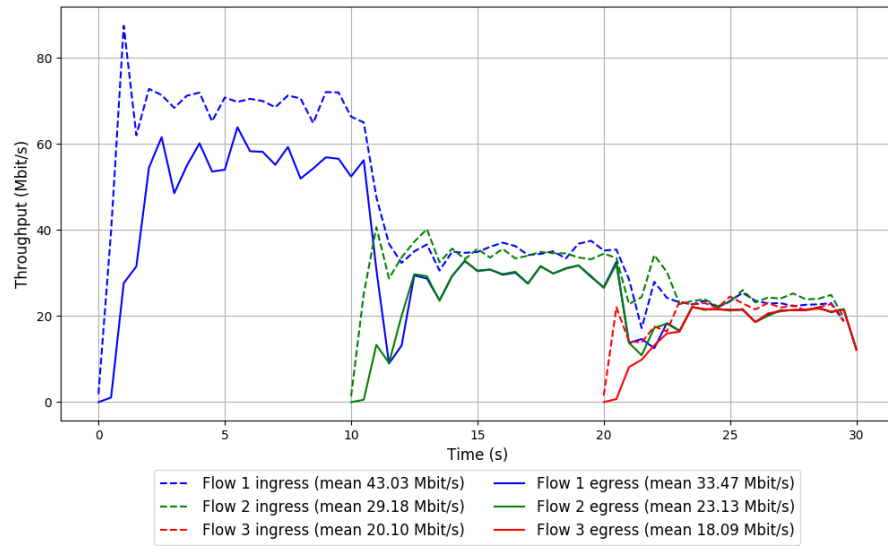
-- Flow 3:

Average throughput: 18.09 Mbit/s

95th percentile per-packet one-way delay: 119.720 ms

Loss rate: 11.56%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2018-07-18 11:28:23

End at: 2018-07-18 11:28:53

Local clock offset: 8.747 ms

Remote clock offset: 1.688 ms

Below is generated by plot.py at 2018-07-18 14:17:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 52.00 Mbit/s

95th percentile per-packet one-way delay: 119.360 ms

Loss rate: 23.03%

-- Flow 1:

Average throughput: 32.49 Mbit/s

95th percentile per-packet one-way delay: 115.097 ms

Loss rate: 24.03%

-- Flow 2:

Average throughput: 21.52 Mbit/s

95th percentile per-packet one-way delay: 120.160 ms

Loss rate: 21.91%

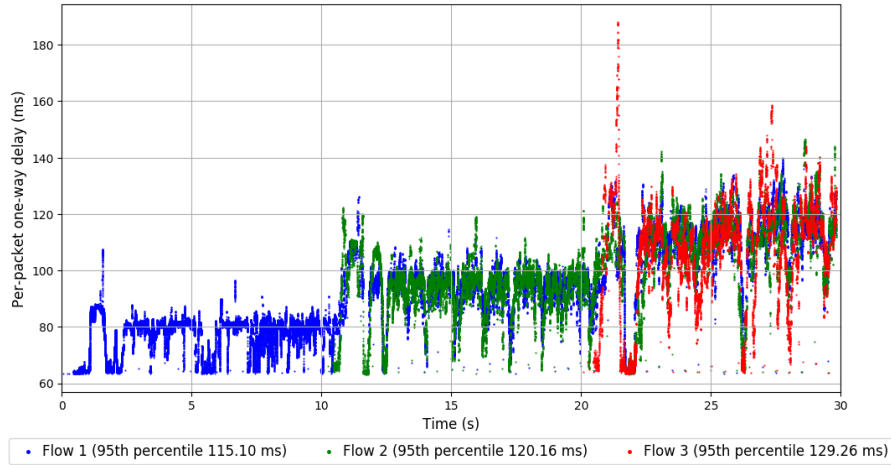
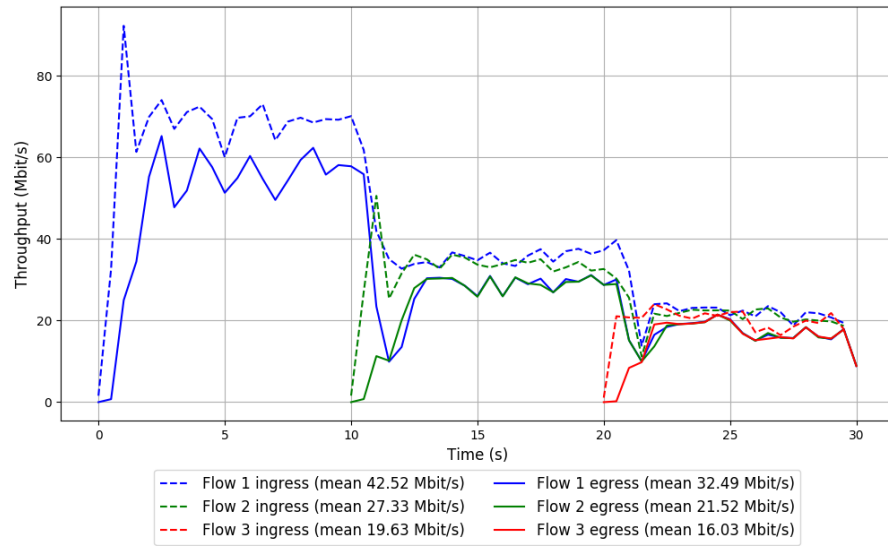
-- Flow 3:

Average throughput: 16.03 Mbit/s

95th percentile per-packet one-way delay: 129.265 ms

Loss rate: 19.65%

Run 5: Report of FillP-Sheep — Data Link



Run 6: Statistics of FillP-Sheep

Start at: 2018-07-18 11:59:28

End at: 2018-07-18 11:59:58

Local clock offset: 4.252 ms

Remote clock offset: 1.496 ms

Below is generated by plot.py at 2018-07-18 14:17:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 50.47 Mbit/s

95th percentile per-packet one-way delay: 122.913 ms

Loss rate: 25.43%

-- Flow 1:

Average throughput: 31.54 Mbit/s

95th percentile per-packet one-way delay: 119.000 ms

Loss rate: 25.88%

-- Flow 2:

Average throughput: 21.29 Mbit/s

95th percentile per-packet one-way delay: 123.220 ms

Loss rate: 25.49%

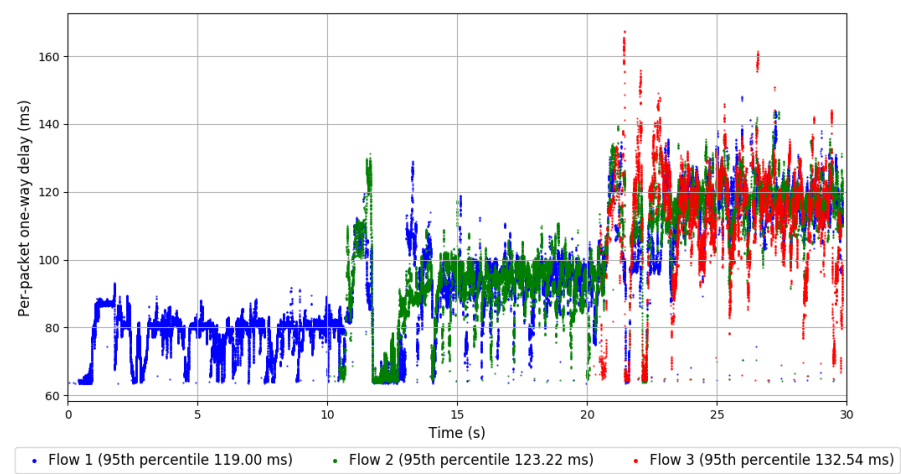
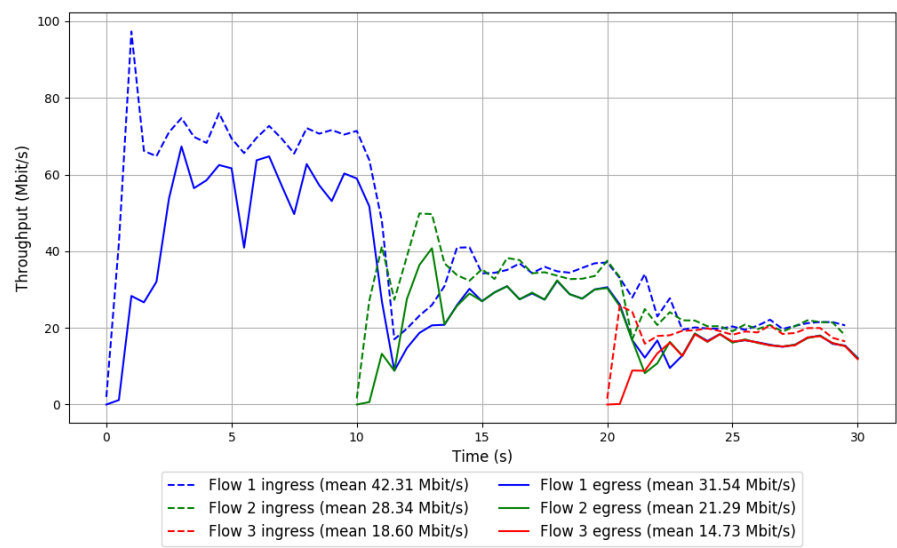
-- Flow 3:

Average throughput: 14.73 Mbit/s

95th percentile per-packet one-way delay: 132.537 ms

Loss rate: 22.15%

Run 6: Report of FillP-Sheep — Data Link



Run 7: Statistics of FillP-Sheep

Start at: 2018-07-18 12:31:45

End at: 2018-07-18 12:32:15

Local clock offset: 6.112 ms

Remote clock offset: 1.329 ms

Below is generated by plot.py at 2018-07-18 14:17:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 50.57 Mbit/s

95th percentile per-packet one-way delay: 115.516 ms

Loss rate: 25.53%

-- Flow 1:

Average throughput: 30.80 Mbit/s

95th percentile per-packet one-way delay: 112.833 ms

Loss rate: 27.42%

-- Flow 2:

Average throughput: 20.94 Mbit/s

95th percentile per-packet one-way delay: 115.758 ms

Loss rate: 23.87%

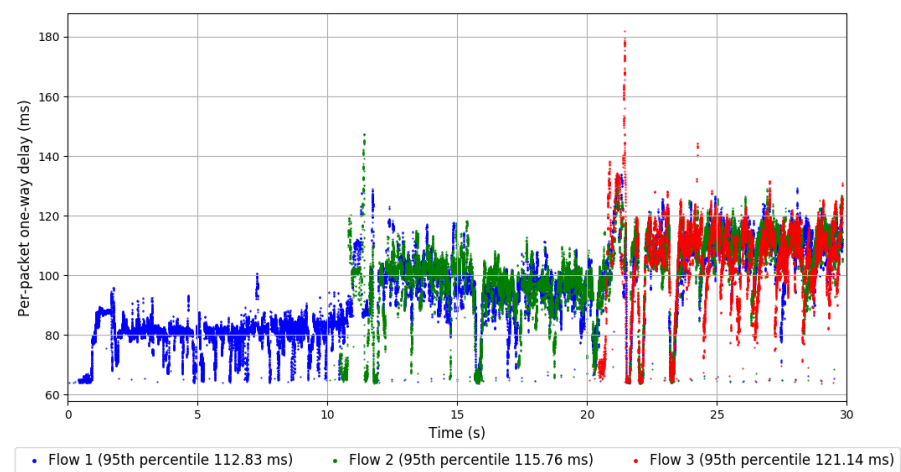
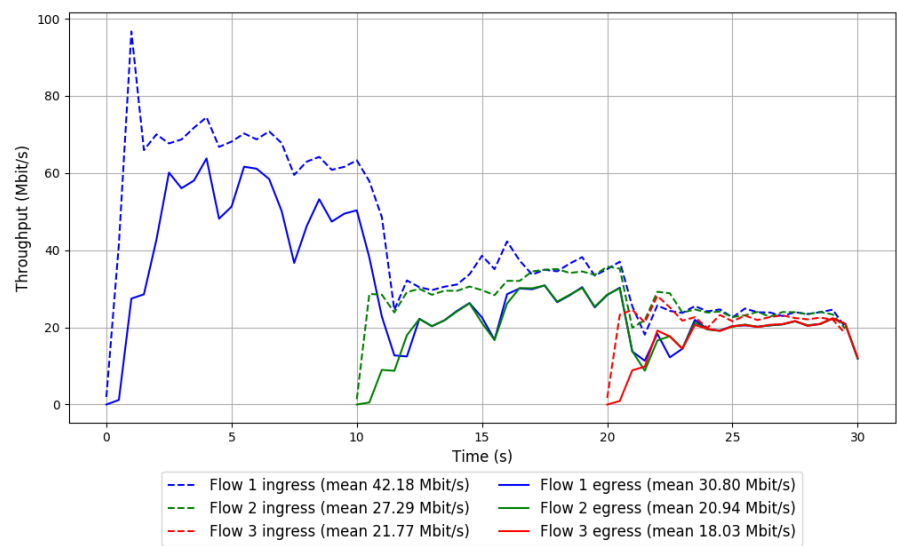
-- Flow 3:

Average throughput: 18.03 Mbit/s

95th percentile per-packet one-way delay: 121.138 ms

Loss rate: 18.60%

Run 7: Report of FillP-Sheep — Data Link



Run 8: Statistics of FillP-Sheep

Start at: 2018-07-18 13:04:09

End at: 2018-07-18 13:04:39

Local clock offset: 7.375 ms

Remote clock offset: 1.078 ms

Below is generated by plot.py at 2018-07-18 14:17:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 52.83 Mbit/s

95th percentile per-packet one-way delay: 114.910 ms

Loss rate: 24.89%

-- Flow 1:

Average throughput: 32.34 Mbit/s

95th percentile per-packet one-way delay: 112.144 ms

Loss rate: 26.76%

-- Flow 2:

Average throughput: 22.20 Mbit/s

95th percentile per-packet one-way delay: 115.023 ms

Loss rate: 23.78%

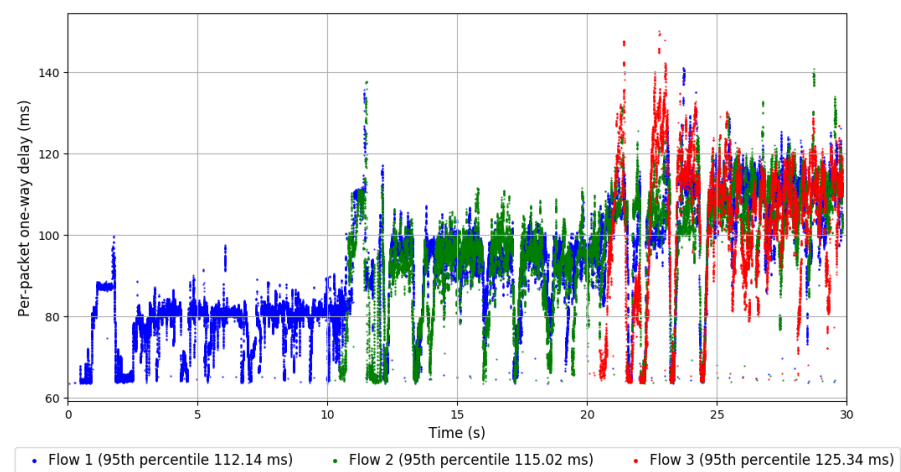
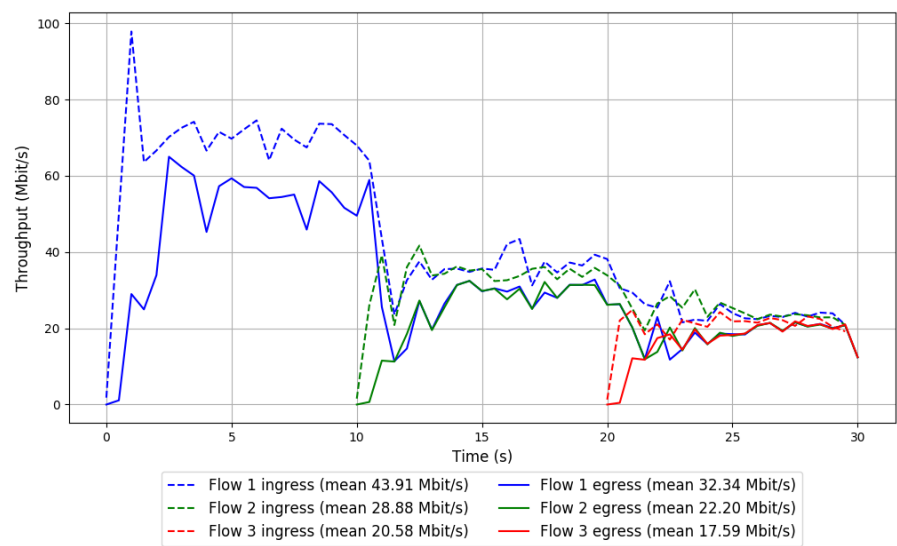
-- Flow 3:

Average throughput: 17.59 Mbit/s

95th percentile per-packet one-way delay: 125.343 ms

Loss rate: 15.98%

Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

Start at: 2018-07-18 13:34:27

End at: 2018-07-18 13:34:57

Local clock offset: -2.292 ms

Remote clock offset: 0.868 ms

Below is generated by plot.py at 2018-07-18 14:17:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 54.04 Mbit/s

95th percentile per-packet one-way delay: 115.276 ms

Loss rate: 21.77%

-- Flow 1:

Average throughput: 33.22 Mbit/s

95th percentile per-packet one-way delay: 112.221 ms

Loss rate: 22.26%

-- Flow 2:

Average throughput: 22.38 Mbit/s

95th percentile per-packet one-way delay: 115.867 ms

Loss rate: 23.70%

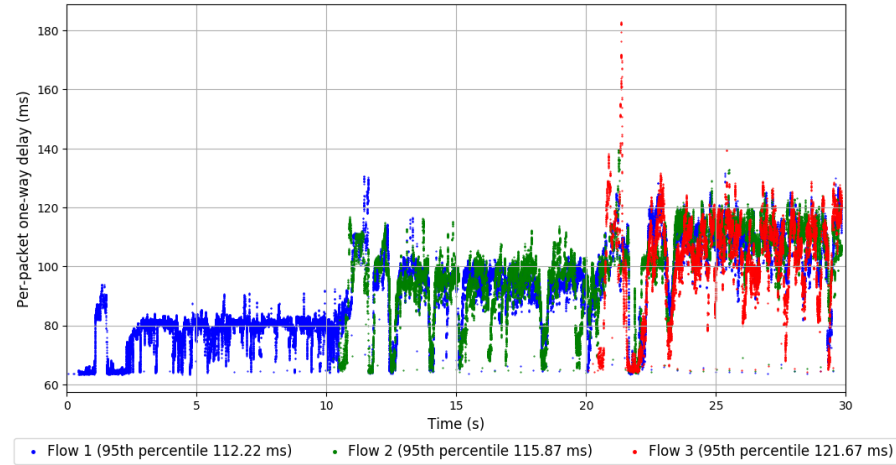
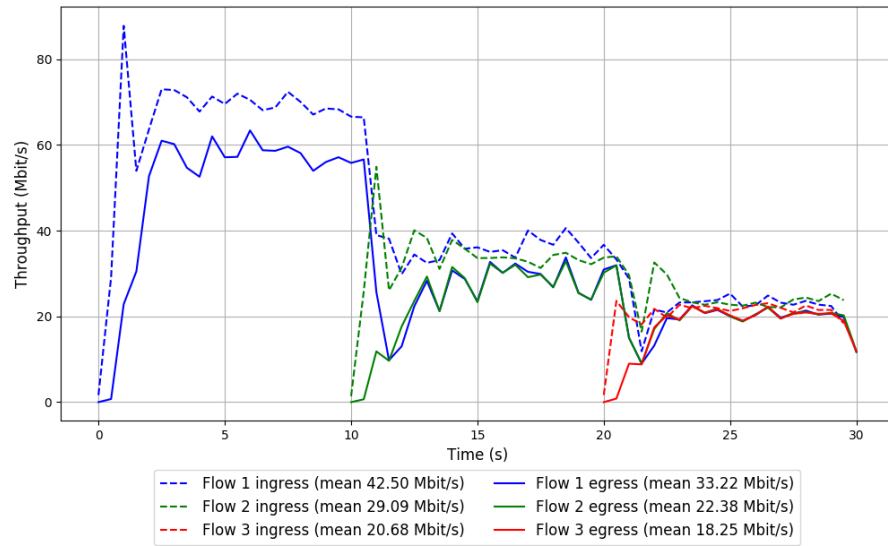
-- Flow 3:

Average throughput: 18.25 Mbit/s

95th percentile per-packet one-way delay: 121.665 ms

Loss rate: 13.24%

Run 9: Report of FillP-Sheep — Data Link



Run 10: Statistics of FillP-Sheep

Start at: 2018-07-18 14:06:11

End at: 2018-07-18 14:06:41

Local clock offset: -2.225 ms

Remote clock offset: 0.468 ms

Below is generated by plot.py at 2018-07-18 14:17:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 52.52 Mbit/s

95th percentile per-packet one-way delay: 115.223 ms

Loss rate: 23.82%

-- Flow 1:

Average throughput: 31.75 Mbit/s

95th percentile per-packet one-way delay: 112.902 ms

Loss rate: 24.23%

-- Flow 2:

Average throughput: 23.01 Mbit/s

95th percentile per-packet one-way delay: 114.881 ms

Loss rate: 22.95%

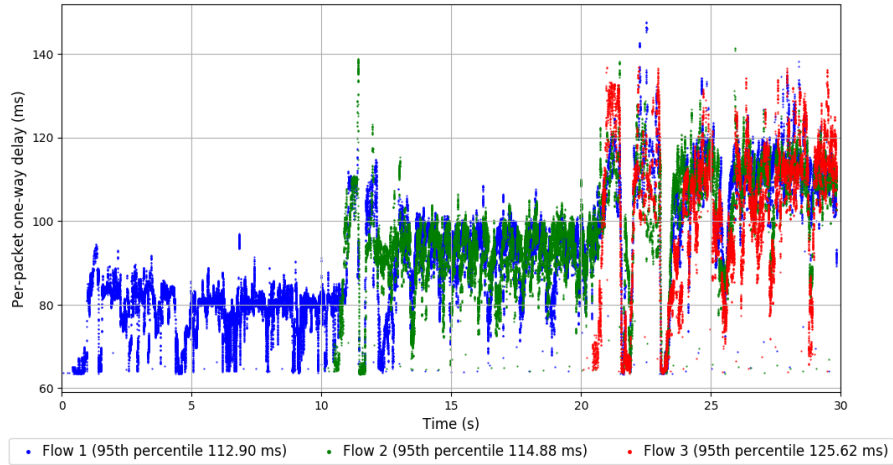
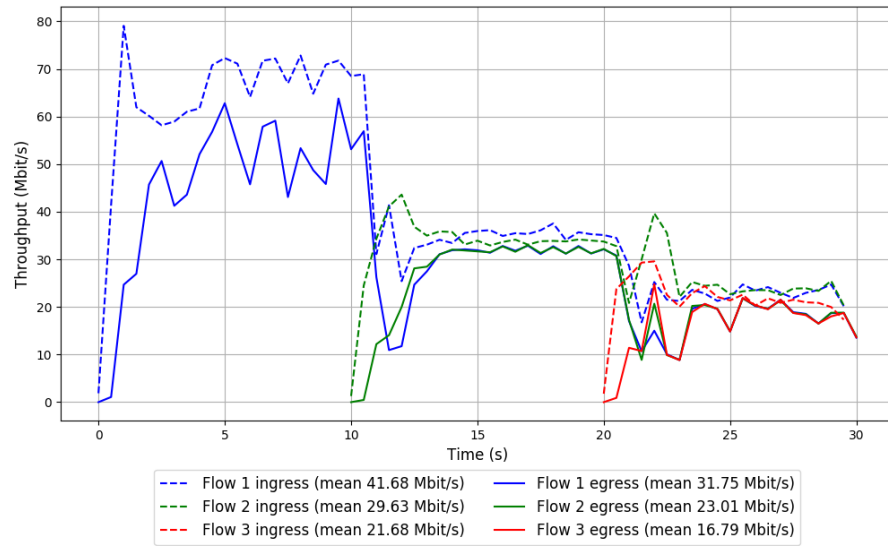
-- Flow 3:

Average throughput: 16.79 Mbit/s

95th percentile per-packet one-way delay: 125.624 ms

Loss rate: 23.87%

Run 10: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2018-07-18 09:08:54

End at: 2018-07-18 09:09:24

Local clock offset: 5.68 ms

Remote clock offset: 0.204 ms

Below is generated by plot.py at 2018-07-18 14:17:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 47.97 Mbit/s

95th percentile per-packet one-way delay: 117.397 ms

Loss rate: 9.89%

-- Flow 1:

Average throughput: 30.90 Mbit/s

95th percentile per-packet one-way delay: 114.098 ms

Loss rate: 12.23%

-- Flow 2:

Average throughput: 19.06 Mbit/s

95th percentile per-packet one-way delay: 122.438 ms

Loss rate: 5.23%

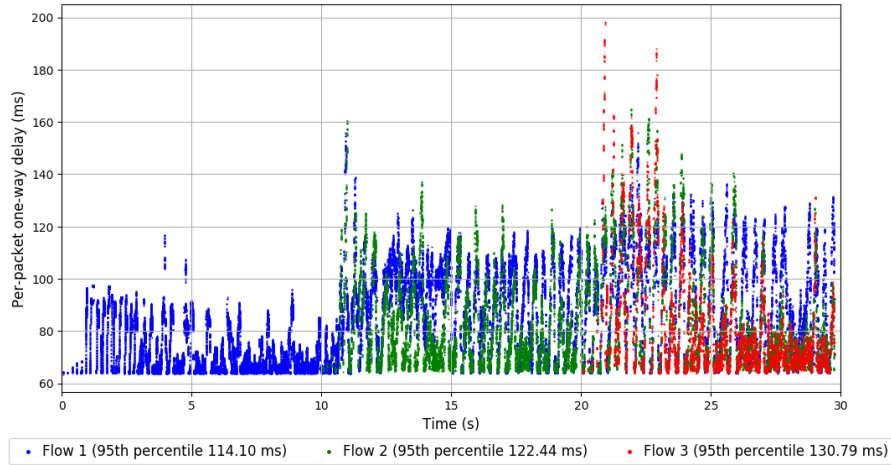
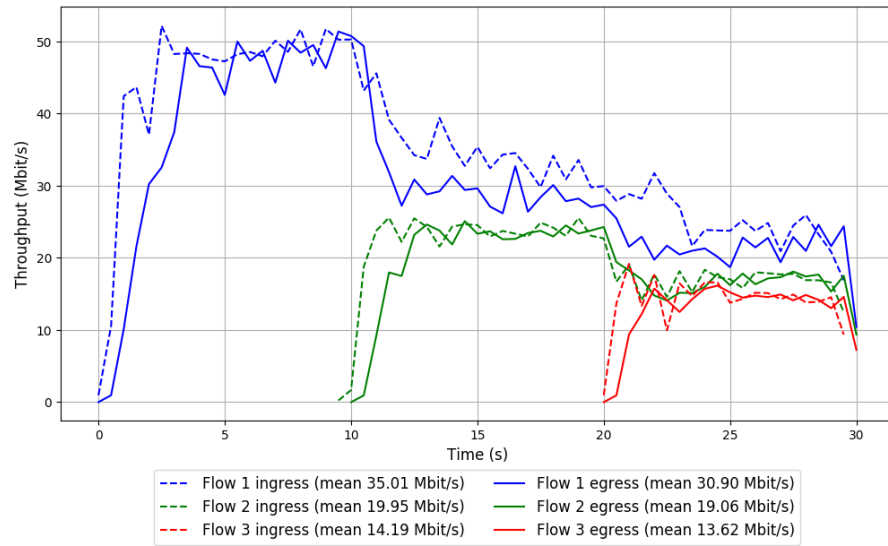
-- Flow 3:

Average throughput: 13.62 Mbit/s

95th percentile per-packet one-way delay: 130.794 ms

Loss rate: 5.51%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-07-18 09:37:48

End at: 2018-07-18 09:38:18

Local clock offset: 7.9 ms

Remote clock offset: 1.061 ms

Below is generated by plot.py at 2018-07-18 14:17:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 38.84 Mbit/s

95th percentile per-packet one-way delay: 100.033 ms

Loss rate: 52.47%

-- Flow 1:

Average throughput: 33.12 Mbit/s

95th percentile per-packet one-way delay: 100.483 ms

Loss rate: 56.33%

-- Flow 2:

Average throughput: 5.92 Mbit/s

95th percentile per-packet one-way delay: 77.800 ms

Loss rate: 1.48%

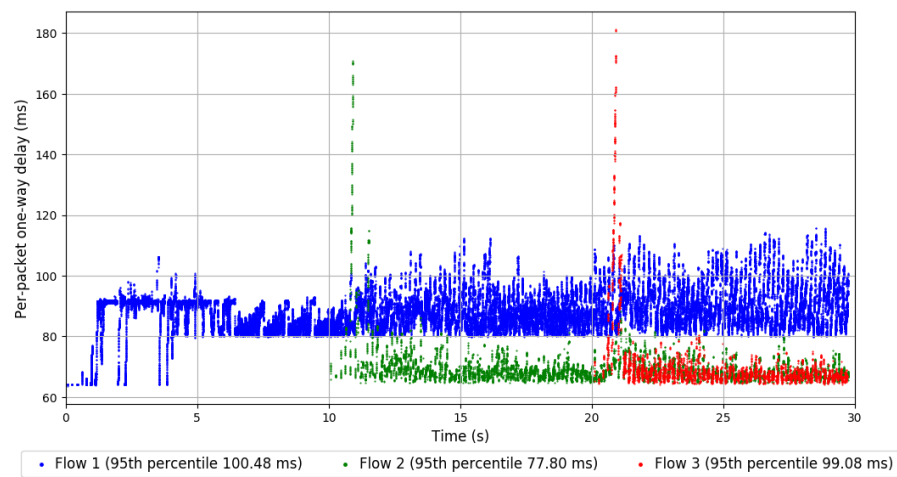
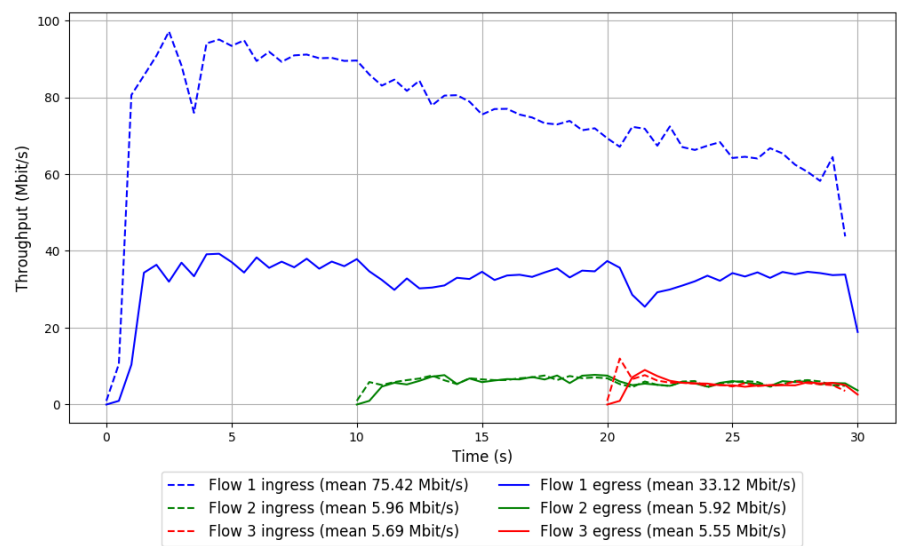
-- Flow 3:

Average throughput: 5.55 Mbit/s

95th percentile per-packet one-way delay: 99.082 ms

Loss rate: 4.15%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-07-18 10:05:50

End at: 2018-07-18 10:06:20

Local clock offset: -0.749 ms

Remote clock offset: 1.7 ms

Below is generated by plot.py at 2018-07-18 14:17:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.83 Mbit/s

95th percentile per-packet one-way delay: 109.772 ms

Loss rate: 17.62%

-- Flow 1:

Average throughput: 35.46 Mbit/s

95th percentile per-packet one-way delay: 106.532 ms

Loss rate: 22.23%

-- Flow 2:

Average throughput: 16.04 Mbit/s

95th percentile per-packet one-way delay: 125.857 ms

Loss rate: 2.31%

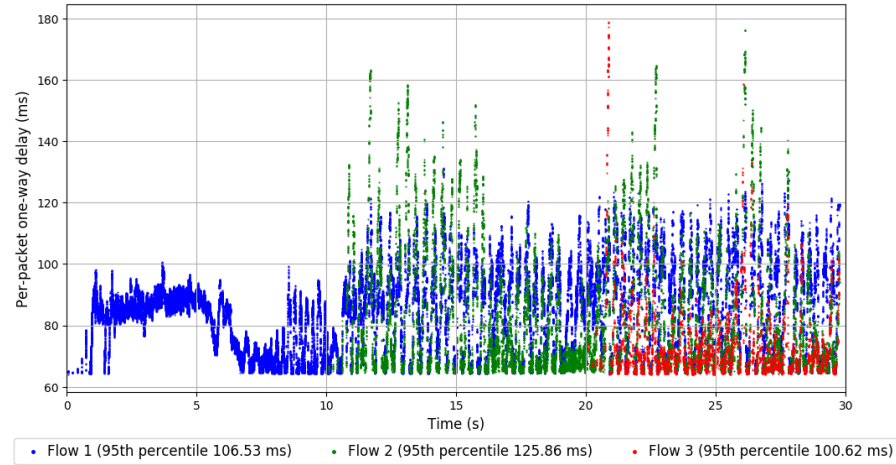
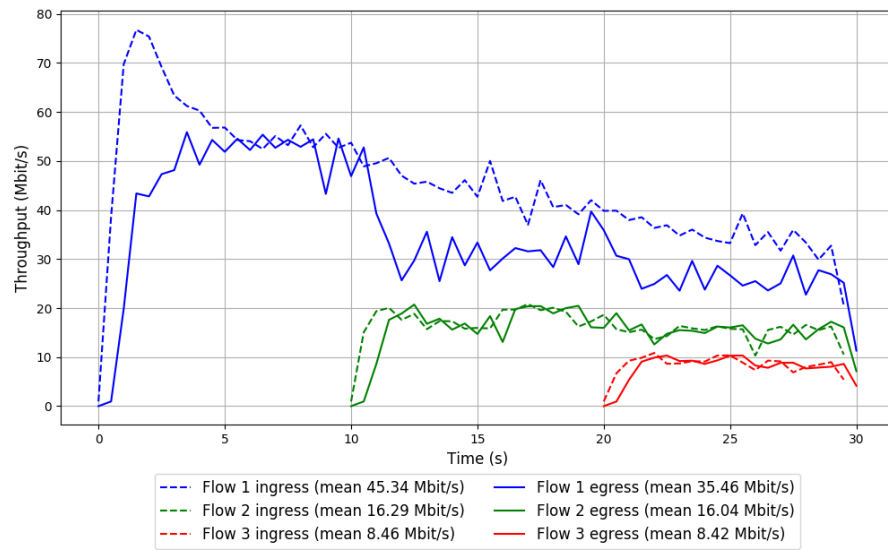
-- Flow 3:

Average throughput: 8.42 Mbit/s

95th percentile per-packet one-way delay: 100.620 ms

Loss rate: 2.09%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-07-18 10:35:48

End at: 2018-07-18 10:36:18

Local clock offset: 0.812 ms

Remote clock offset: 1.933 ms

Below is generated by plot.py at 2018-07-18 14:17:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.95 Mbit/s

95th percentile per-packet one-way delay: 101.923 ms

Loss rate: 8.68%

-- Flow 1:

Average throughput: 37.22 Mbit/s

95th percentile per-packet one-way delay: 103.315 ms

Loss rate: 10.76%

-- Flow 2:

Average throughput: 14.79 Mbit/s

95th percentile per-packet one-way delay: 91.971 ms

Loss rate: 1.68%

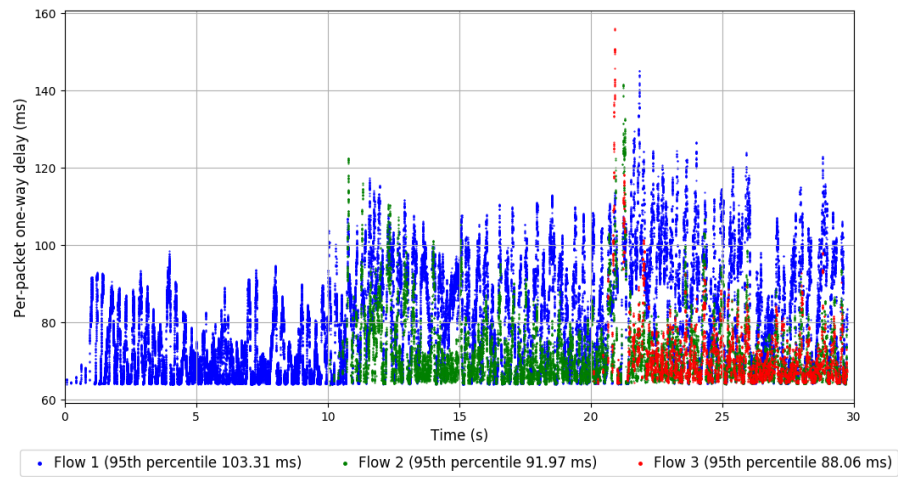
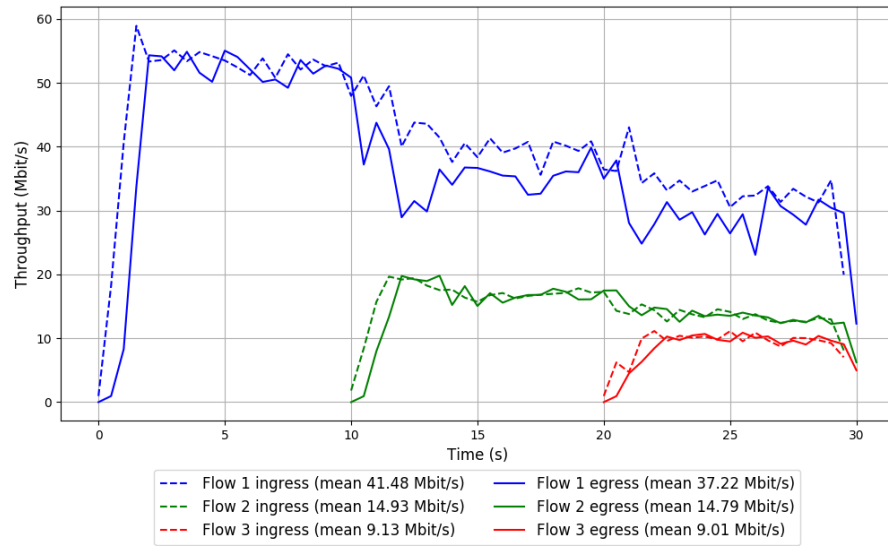
-- Flow 3:

Average throughput: 9.01 Mbit/s

95th percentile per-packet one-way delay: 88.057 ms

Loss rate: 3.03%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-07-18 11:07:15

End at: 2018-07-18 11:07:45

Local clock offset: 3.897 ms

Remote clock offset: 1.889 ms

Below is generated by plot.py at 2018-07-18 14:18:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 38.16 Mbit/s

95th percentile per-packet one-way delay: 102.036 ms

Loss rate: 54.51%

-- Flow 1:

Average throughput: 30.88 Mbit/s

95th percentile per-packet one-way delay: 102.700 ms

Loss rate: 59.62%

-- Flow 2:

Average throughput: 7.59 Mbit/s

95th percentile per-packet one-way delay: 76.597 ms

Loss rate: 1.40%

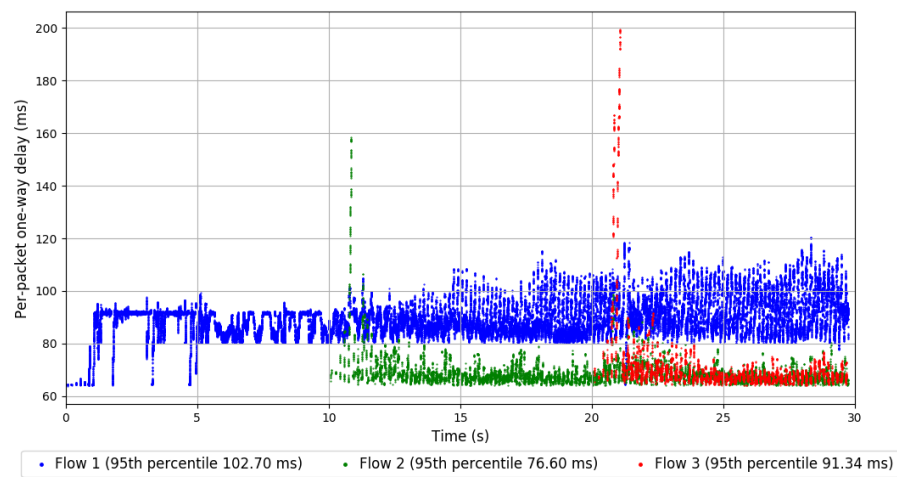
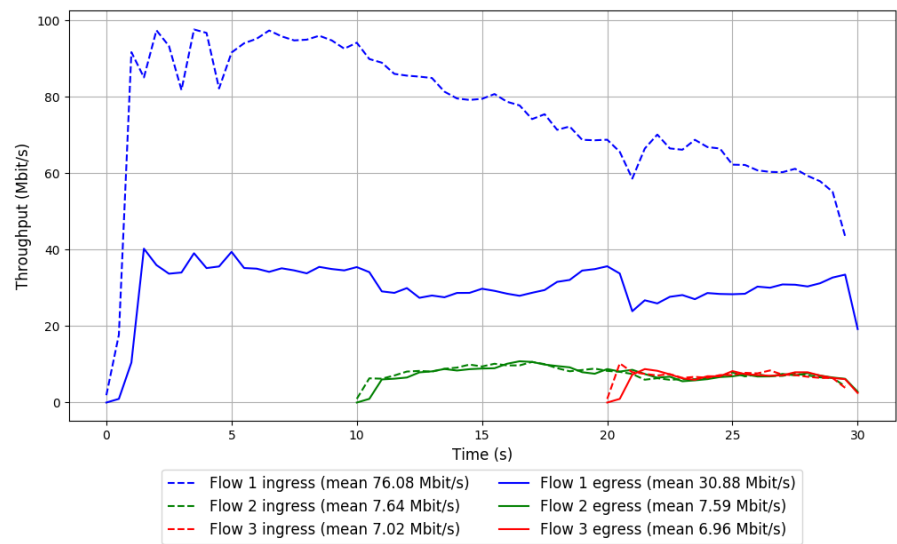
-- Flow 3:

Average throughput: 6.96 Mbit/s

95th percentile per-packet one-way delay: 91.341 ms

Loss rate: 2.44%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-07-18 11:39:37

End at: 2018-07-18 11:40:07

Local clock offset: 9.98 ms

Remote clock offset: 1.627 ms

Below is generated by plot.py at 2018-07-18 14:18:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 45.57 Mbit/s

95th percentile per-packet one-way delay: 104.409 ms

Loss rate: 22.34%

-- Flow 1:

Average throughput: 35.41 Mbit/s

95th percentile per-packet one-way delay: 104.065 ms

Loss rate: 26.63%

-- Flow 2:

Average throughput: 11.30 Mbit/s

95th percentile per-packet one-way delay: 101.588 ms

Loss rate: 1.87%

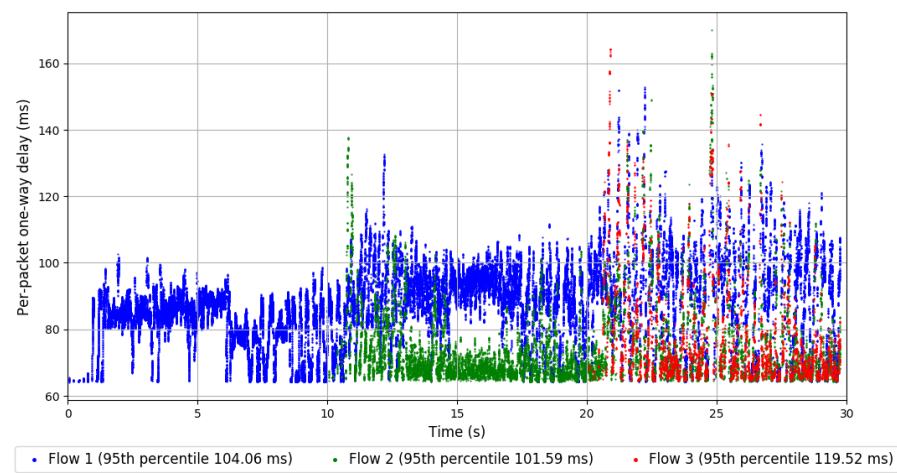
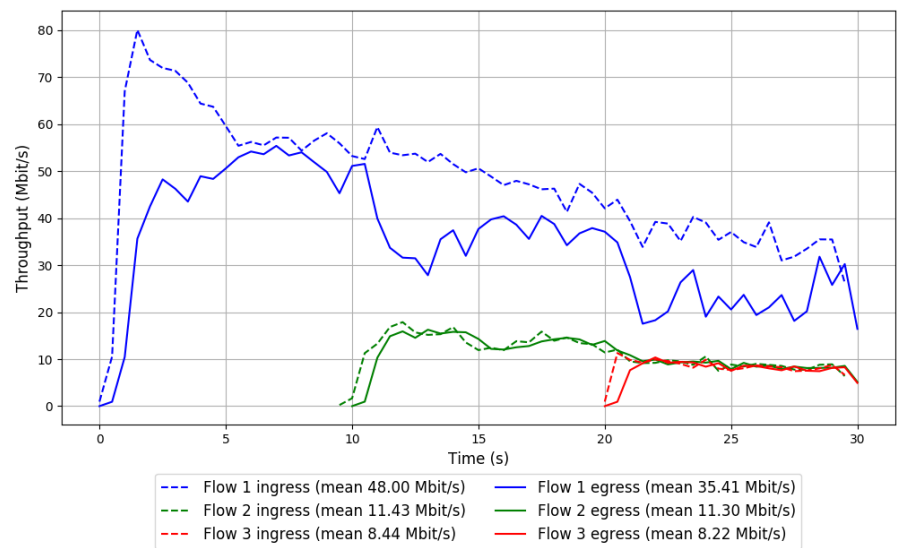
-- Flow 3:

Average throughput: 8.22 Mbit/s

95th percentile per-packet one-way delay: 119.520 ms

Loss rate: 4.17%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-07-18 12:10:12

End at: 2018-07-18 12:10:42

Local clock offset: 3.471 ms

Remote clock offset: 1.334 ms

Below is generated by plot.py at 2018-07-18 14:18:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 46.34 Mbit/s

95th percentile per-packet one-way delay: 99.329 ms

Loss rate: 30.72%

-- Flow 1:

Average throughput: 38.04 Mbit/s

95th percentile per-packet one-way delay: 99.827 ms

Loss rate: 34.85%

-- Flow 2:

Average throughput: 9.51 Mbit/s

95th percentile per-packet one-way delay: 78.039 ms

Loss rate: 2.34%

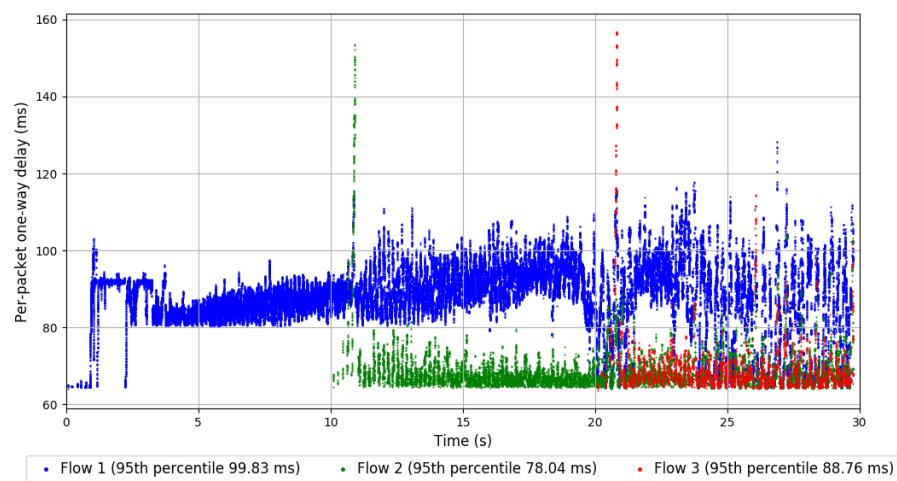
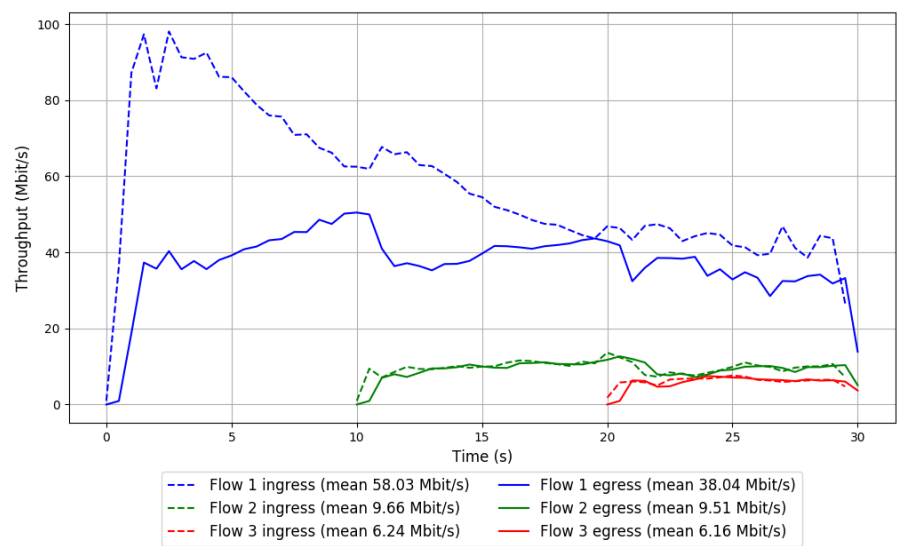
-- Flow 3:

Average throughput: 6.16 Mbit/s

95th percentile per-packet one-way delay: 88.764 ms

Loss rate: 2.86%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-07-18 12:43:41

End at: 2018-07-18 12:44:11

Local clock offset: 6.473 ms

Remote clock offset: 1.185 ms

Below is generated by plot.py at 2018-07-18 14:18:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 47.05 Mbit/s

95th percentile per-packet one-way delay: 112.029 ms

Loss rate: 21.37%

-- Flow 1:

Average throughput: 34.21 Mbit/s

95th percentile per-packet one-way delay: 108.358 ms

Loss rate: 26.12%

-- Flow 2:

Average throughput: 17.94 Mbit/s

95th percentile per-packet one-way delay: 122.877 ms

Loss rate: 5.27%

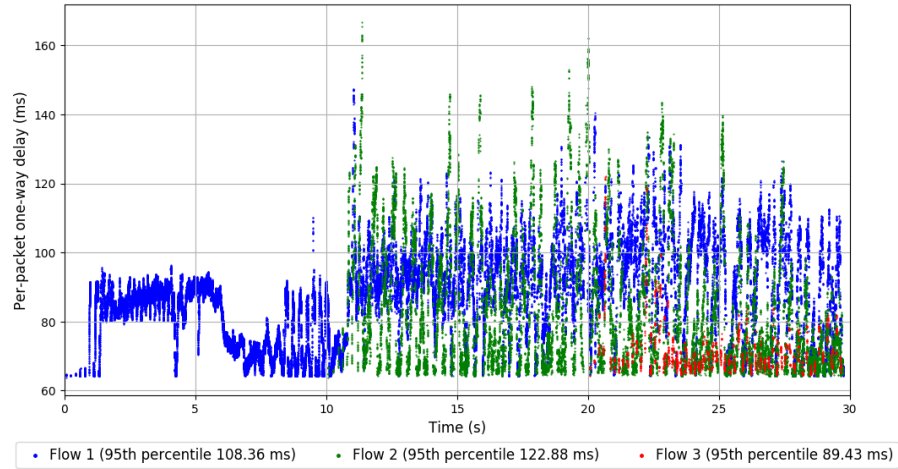
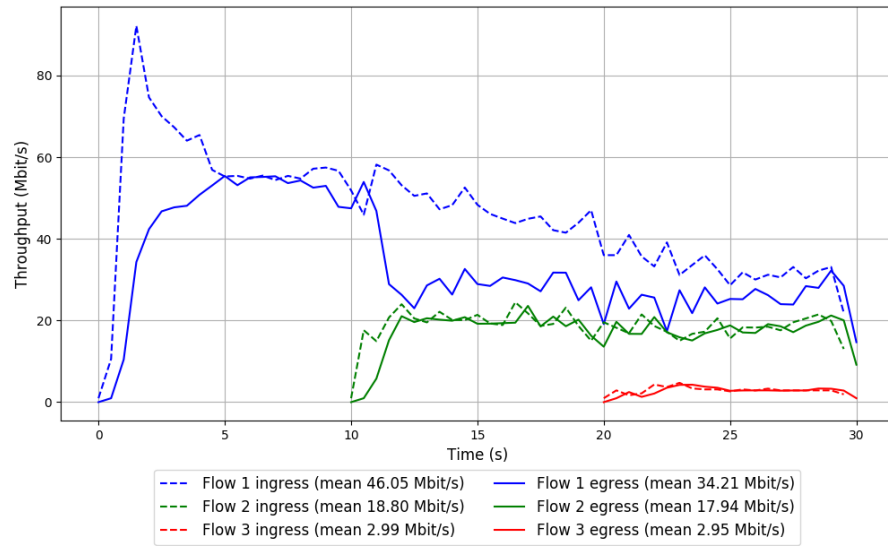
-- Flow 3:

Average throughput: 2.95 Mbit/s

95th percentile per-packet one-way delay: 89.434 ms

Loss rate: 3.01%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-07-18 13:14:47

End at: 2018-07-18 13:15:17

Local clock offset: 4.092 ms

Remote clock offset: 1.012 ms

Below is generated by plot.py at 2018-07-18 14:18:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 45.97 Mbit/s

95th percentile per-packet one-way delay: 104.075 ms

Loss rate: 30.47%

-- Flow 1:

Average throughput: 36.49 Mbit/s

95th percentile per-packet one-way delay: 104.054 ms

Loss rate: 35.16%

-- Flow 2:

Average throughput: 8.22 Mbit/s

95th percentile per-packet one-way delay: 83.427 ms

Loss rate: 2.03%

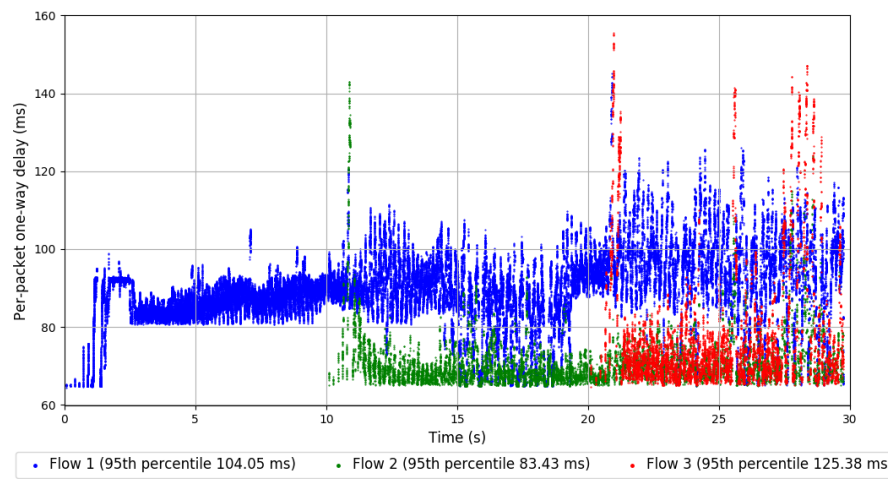
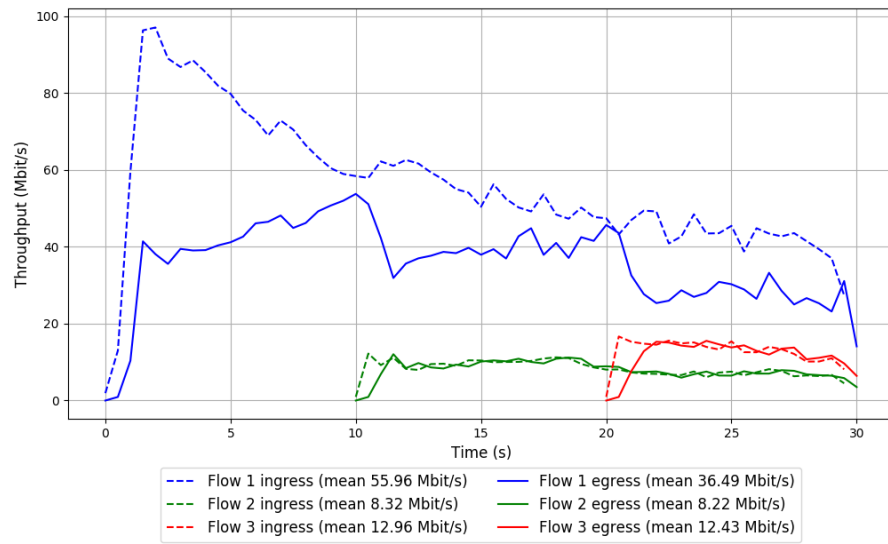
-- Flow 3:

Average throughput: 12.43 Mbit/s

95th percentile per-packet one-way delay: 125.377 ms

Loss rate: 5.63%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-07-18 13:45:18

End at: 2018-07-18 13:45:48

Local clock offset: -2.286 ms

Remote clock offset: 0.661 ms

Below is generated by plot.py at 2018-07-18 14:18:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 43.50 Mbit/s

95th percentile per-packet one-way delay: 103.530 ms

Loss rate: 40.49%

-- Flow 1:

Average throughput: 35.03 Mbit/s

95th percentile per-packet one-way delay: 104.233 ms

Loss rate: 45.65%

-- Flow 2:

Average throughput: 10.17 Mbit/s

95th percentile per-packet one-way delay: 77.770 ms

Loss rate: 1.83%

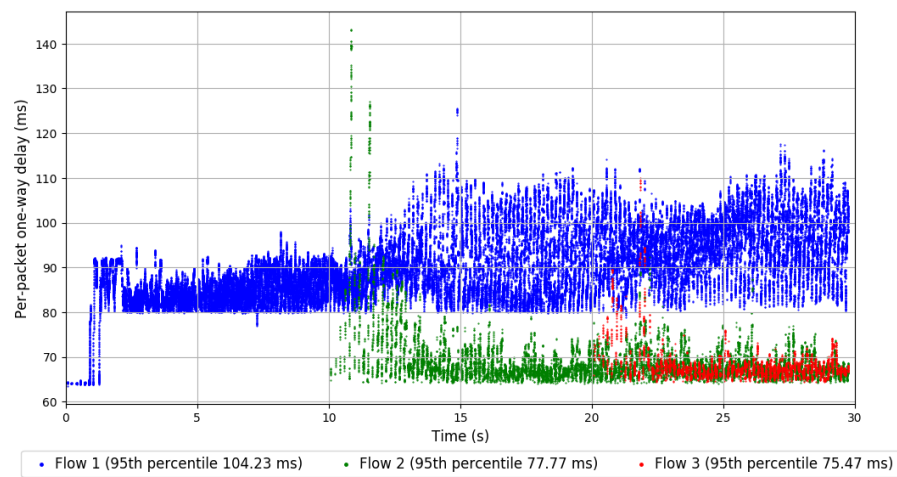
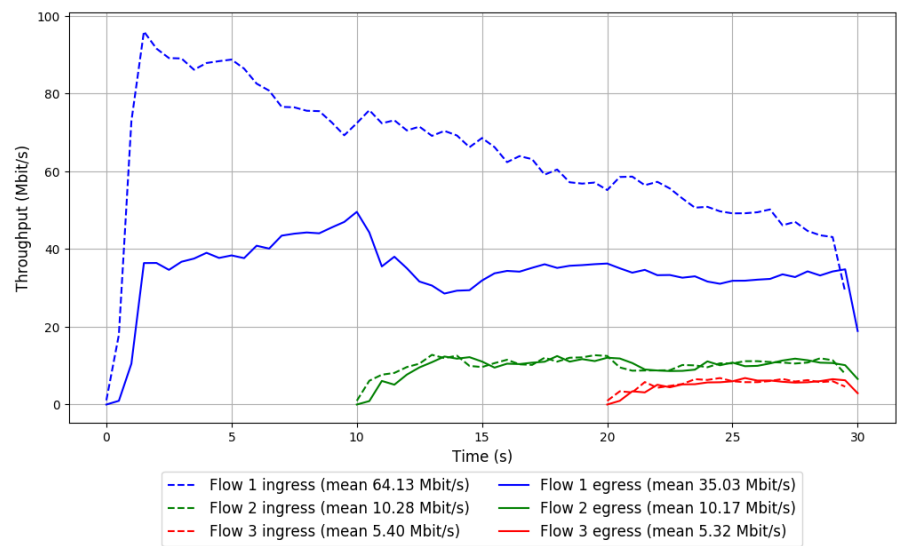
-- Flow 3:

Average throughput: 5.32 Mbit/s

95th percentile per-packet one-way delay: 75.474 ms

Loss rate: 2.96%

Run 10: Report of Indigo — Data Link

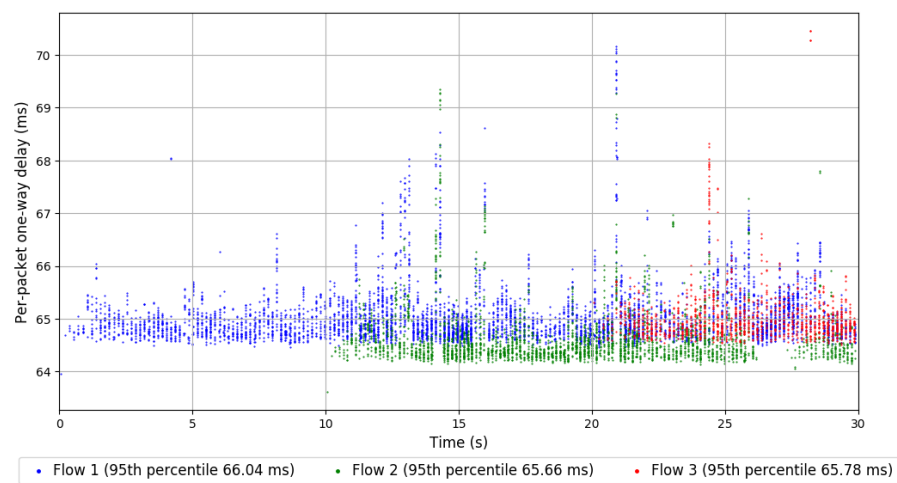
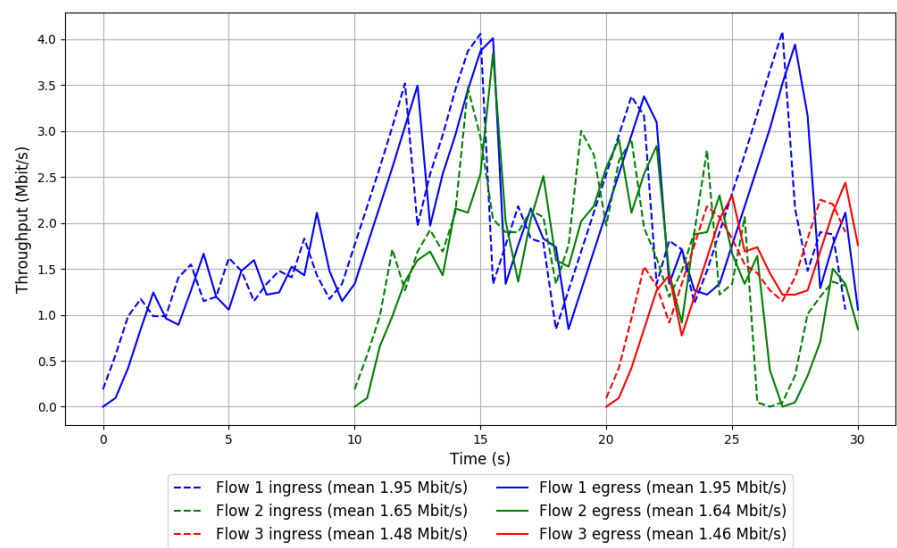


```
Run 1: Statistics of LEDBAT

Start at: 2018-07-18 09:20:07
End at: 2018-07-18 09:20:37
Local clock offset: 6.916 ms
Remote clock offset: 0.612 ms

# Below is generated by plot.py at 2018-07-18 14:18:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.51 Mbit/s
95th percentile per-packet one-way delay: 65.934 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 1.95 Mbit/s
95th percentile per-packet one-way delay: 66.037 ms
Loss rate: 0.82%
-- Flow 2:
Average throughput: 1.64 Mbit/s
95th percentile per-packet one-way delay: 65.659 ms
Loss rate: 1.32%
-- Flow 3:
Average throughput: 1.46 Mbit/s
95th percentile per-packet one-way delay: 65.777 ms
Loss rate: 2.87%
```


Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-07-18 09:48:59

End at: 2018-07-18 09:49:29

Local clock offset: 2.701 ms

Remote clock offset: 1.43 ms

Below is generated by plot.py at 2018-07-18 14:18:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.88 Mbit/s

95th percentile per-packet one-way delay: 65.861 ms

Loss rate: 1.40%

-- Flow 1:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 65.768 ms

Loss rate: 1.00%

-- Flow 2:

Average throughput: 1.90 Mbit/s

95th percentile per-packet one-way delay: 65.494 ms

Loss rate: 1.32%

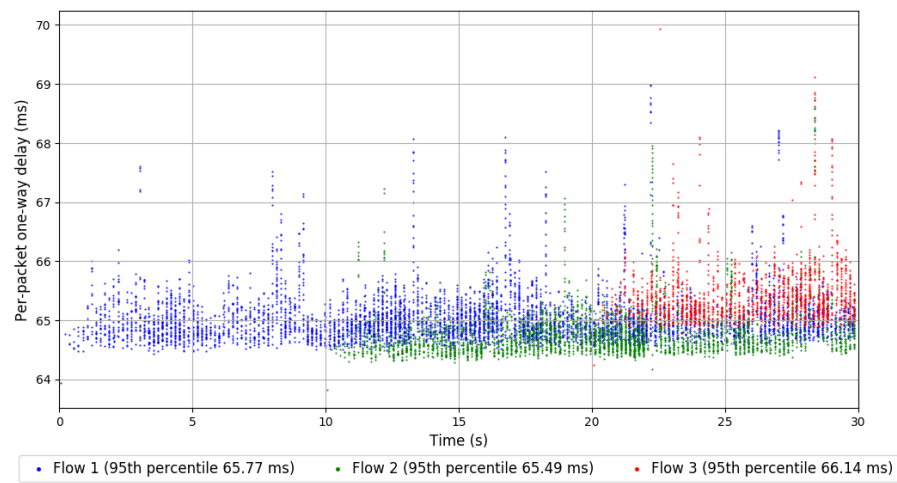
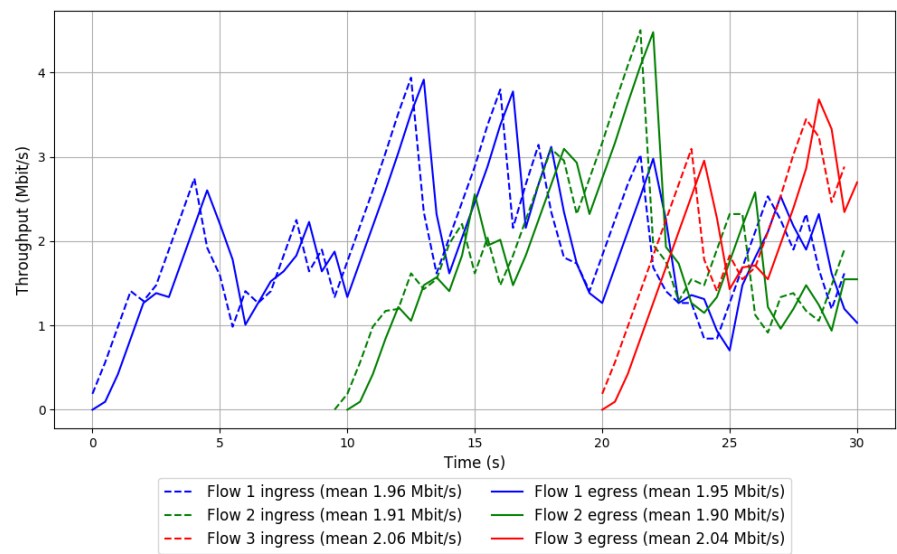
-- Flow 3:

Average throughput: 2.04 Mbit/s

95th percentile per-packet one-way delay: 66.145 ms

Loss rate: 2.69%

Run 2: Report of LEDBAT — Data Link

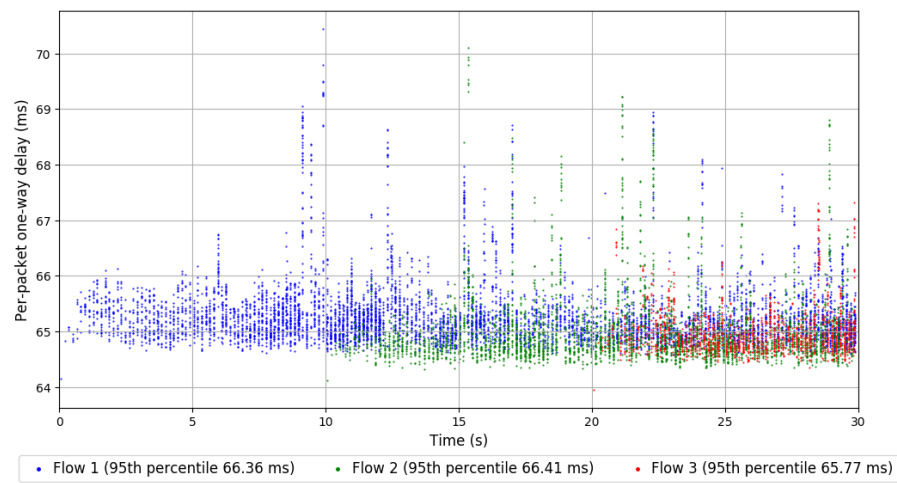
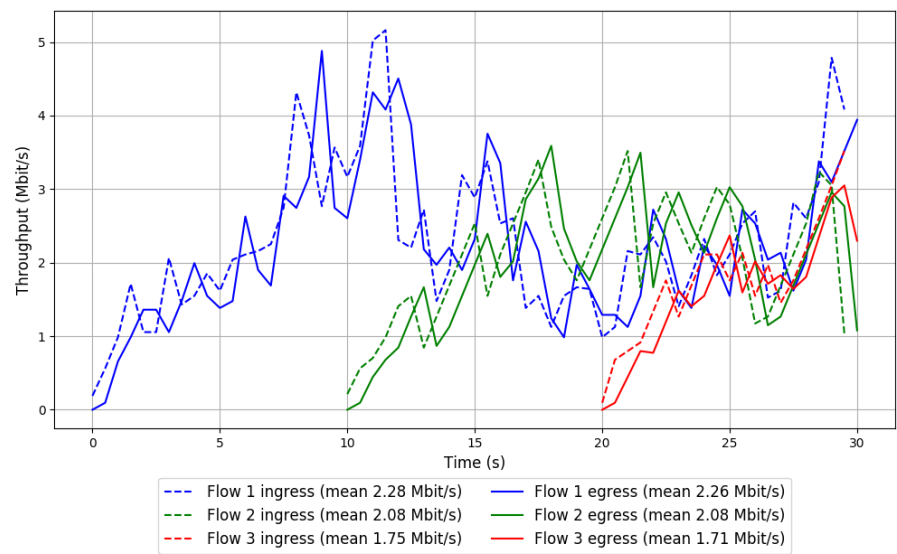


Run 3: Statistics of LEDBAT

Start at: 2018-07-18 10:16:59
End at: 2018-07-18 10:17:29
Local clock offset: -0.335 ms
Remote clock offset: 1.795 ms

Below is generated by plot.py at 2018-07-18 14:18:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.19 Mbit/s
95th percentile per-packet one-way delay: 66.293 ms
Loss rate: 1.58%
-- Flow 1:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 66.357 ms
Loss rate: 1.39%
-- Flow 2:
Average throughput: 2.08 Mbit/s
95th percentile per-packet one-way delay: 66.409 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 1.71 Mbit/s
95th percentile per-packet one-way delay: 65.774 ms
Loss rate: 3.85%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-07-18 10:48:27

End at: 2018-07-18 10:48:57

Local clock offset: 2.168 ms

Remote clock offset: 2.062 ms

Below is generated by plot.py at 2018-07-18 14:18:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.25 Mbit/s

95th percentile per-packet one-way delay: 65.197 ms

Loss rate: 1.57%

-- Flow 1:

Average throughput: 1.74 Mbit/s

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

Loss rate: 1.23%

-- Flow 2:

Average throughput: 1.51 Mbit/s

95th percentile per-packet one-way delay: 65.205 ms

Loss rate: 1.73%

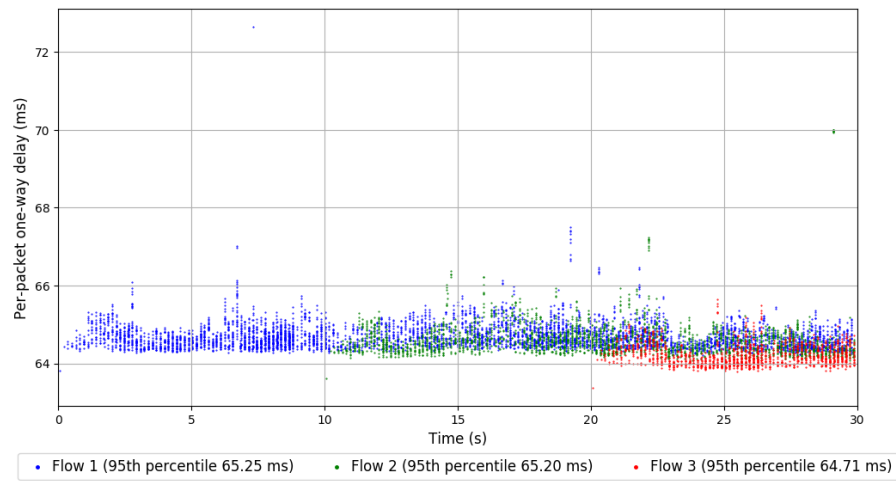
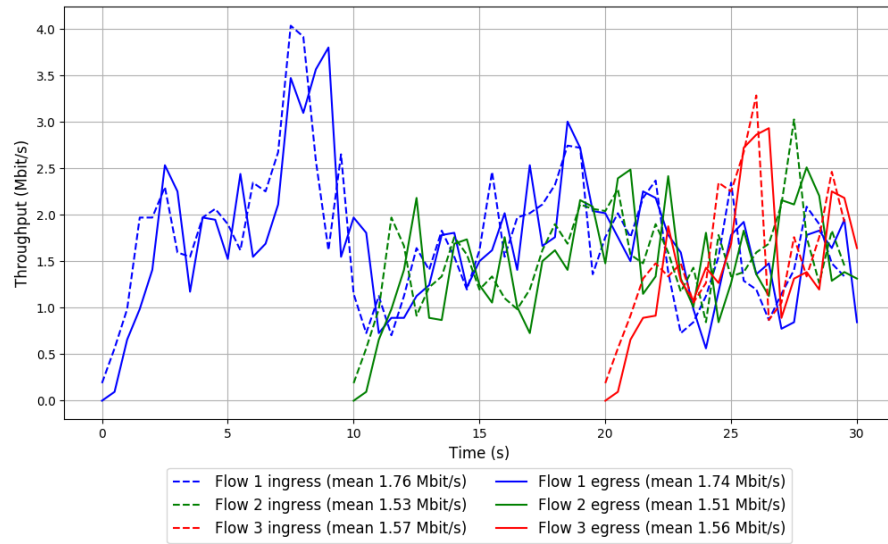
-- Flow 3:

Average throughput: 1.56 Mbit/s

95th percentile per-packet one-way delay: 64.706 ms

Loss rate: 2.40%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-07-18 11:20:12

End at: 2018-07-18 11:20:42

Local clock offset: 7.359 ms

Remote clock offset: 1.868 ms

Below is generated by plot.py at 2018-07-18 14:18:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 64.950 ms

Loss rate: 2.77%

-- Flow 1:

Average throughput: 0.96 Mbit/s

95th percentile per-packet one-way delay: 64.917 ms

Loss rate: 2.87%

-- Flow 2:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 64.960 ms

Loss rate: 2.24%

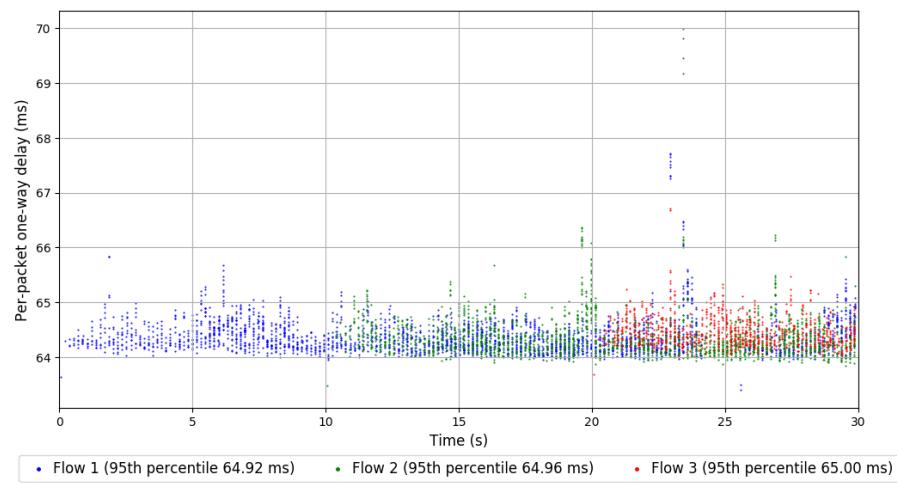
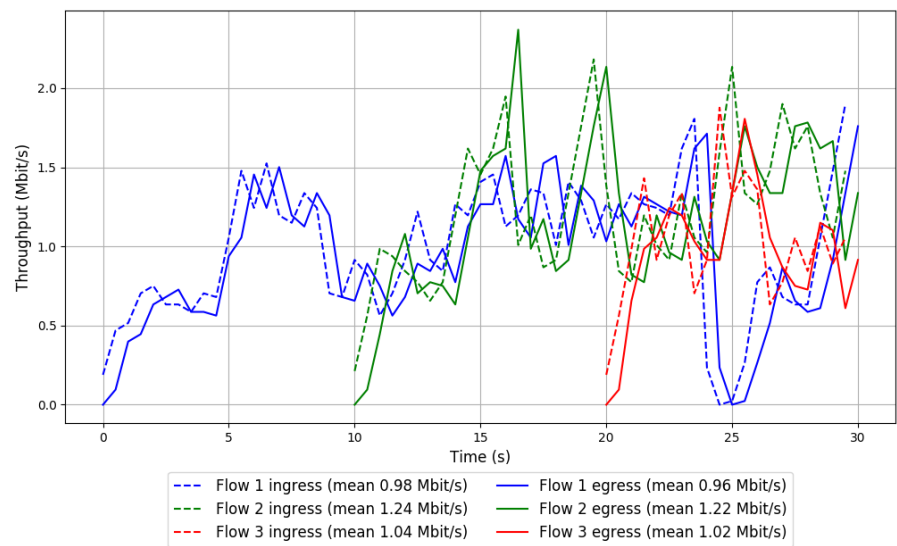
-- Flow 3:

Average throughput: 1.02 Mbit/s

95th percentile per-packet one-way delay: 65.002 ms

Loss rate: 3.75%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-07-18 11:51:42

End at: 2018-07-18 11:52:12

Local clock offset: 5.415 ms

Remote clock offset: 1.588 ms

Below is generated by plot.py at 2018-07-18 14:18:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.81 Mbit/s

95th percentile per-packet one-way delay: 65.515 ms

Loss rate: 1.98%

-- Flow 1:

Average throughput: 1.35 Mbit/s

95th percentile per-packet one-way delay: 65.490 ms

Loss rate: 1.45%

-- Flow 2:

Average throughput: 1.54 Mbit/s

95th percentile per-packet one-way delay: 65.309 ms

Loss rate: 1.93%

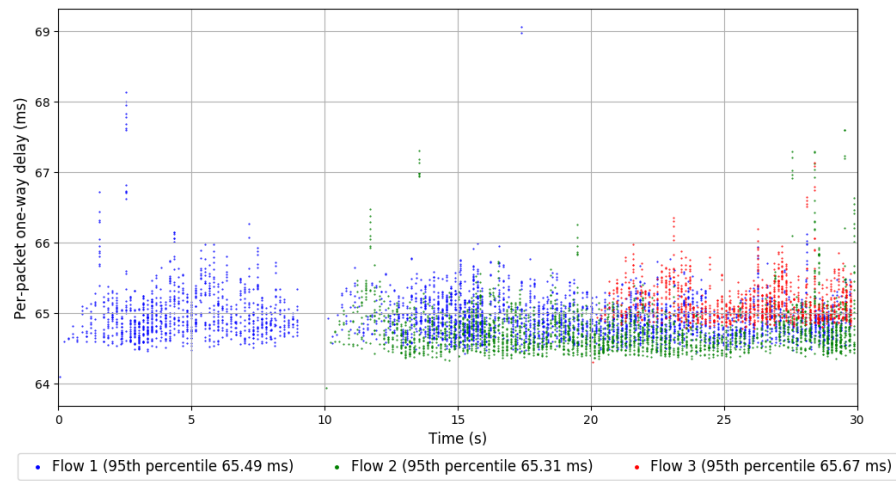
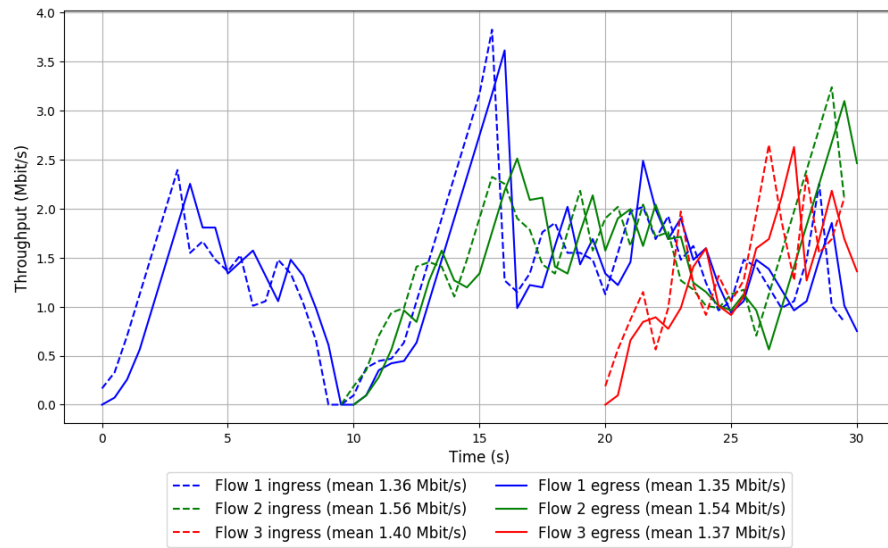
-- Flow 3:

Average throughput: 1.37 Mbit/s

95th percentile per-packet one-way delay: 65.672 ms

Loss rate: 3.67%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-07-18 12:23:44

End at: 2018-07-18 12:24:14

Local clock offset: 5.501 ms

Remote clock offset: 1.325 ms

Below is generated by plot.py at 2018-07-18 14:18:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.38 Mbit/s

95th percentile per-packet one-way delay: 65.112 ms

Loss rate: 2.48%

-- Flow 1:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 65.015 ms

Loss rate: 1.89%

-- Flow 2:

Average throughput: 1.05 Mbit/s

95th percentile per-packet one-way delay: 65.148 ms

Loss rate: 3.18%

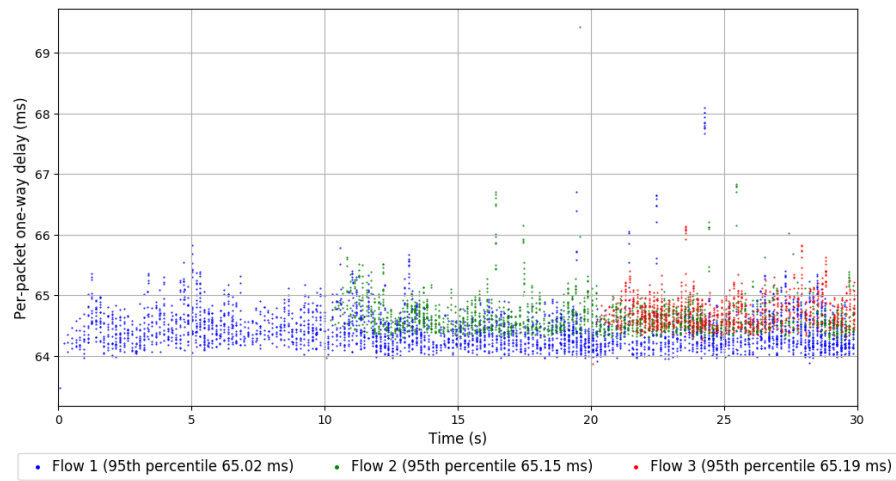
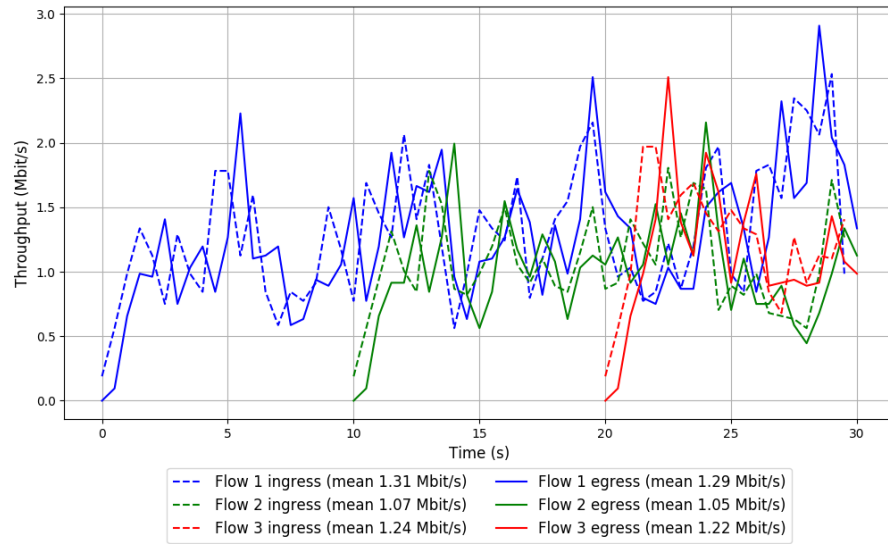
-- Flow 3:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 65.193 ms

Loss rate: 3.15%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-07-18 12:56:11

End at: 2018-07-18 12:56:41

Local clock offset: 7.348 ms

Remote clock offset: 1.151 ms

Below is generated by plot.py at 2018-07-18 14:18:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.03 Mbit/s

95th percentile per-packet one-way delay: 65.440 ms

Loss rate: 1.69%

-- Flow 1:

Average throughput: 1.61 Mbit/s

95th percentile per-packet one-way delay: 65.242 ms

Loss rate: 1.41%

-- Flow 2:

Average throughput: 1.51 Mbit/s

95th percentile per-packet one-way delay: 65.644 ms

Loss rate: 1.66%

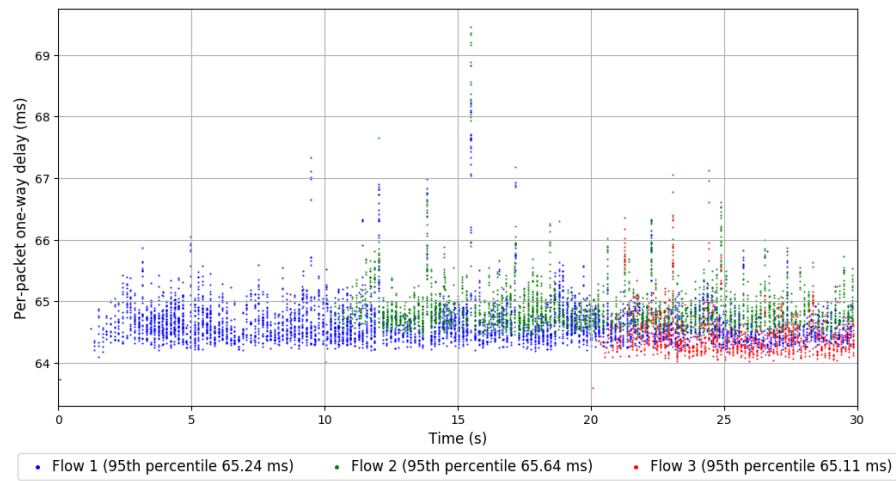
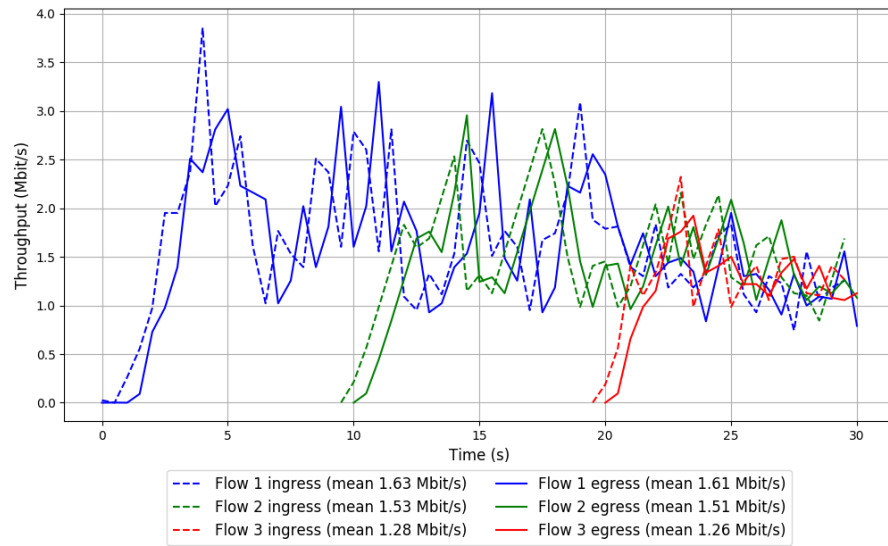
-- Flow 3:

Average throughput: 1.26 Mbit/s

95th percentile per-packet one-way delay: 65.105 ms

Loss rate: 2.86%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-07-18 13:26:44

End at: 2018-07-18 13:27:14

Local clock offset: -0.873 ms

Remote clock offset: 1.037 ms

Below is generated by plot.py at 2018-07-18 14:18:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.02 Mbit/s

95th percentile per-packet one-way delay: 65.636 ms

Loss rate: 1.63%

-- Flow 1:

Average throughput: 1.45 Mbit/s

95th percentile per-packet one-way delay: 65.386 ms

Loss rate: 1.10%

-- Flow 2:

Average throughput: 1.78 Mbit/s

95th percentile per-packet one-way delay: 65.747 ms

Loss rate: 1.89%

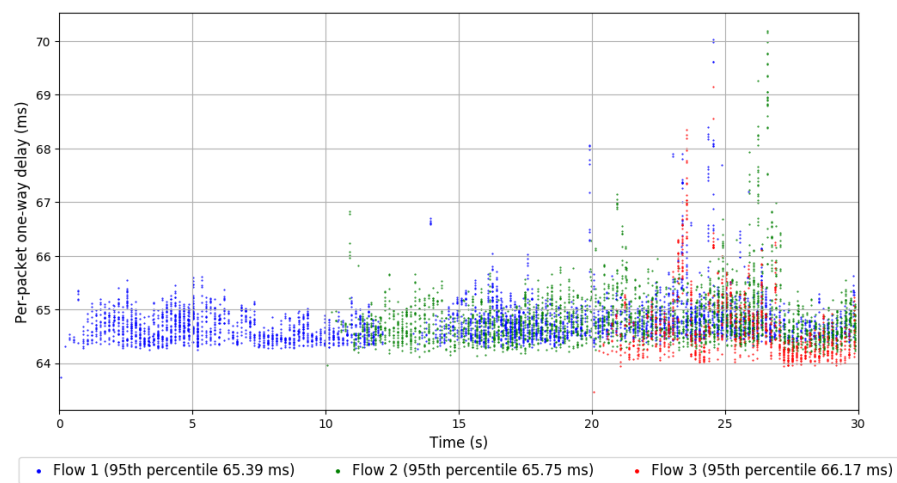
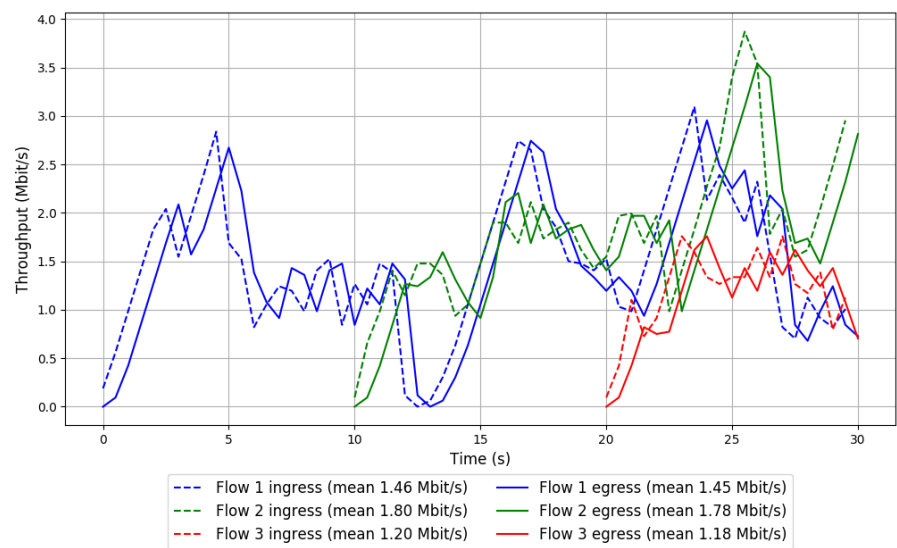
-- Flow 3:

Average throughput: 1.18 Mbit/s

95th percentile per-packet one-way delay: 66.171 ms

Loss rate: 2.77%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-07-18 13:58:12

End at: 2018-07-18 13:58:42

Local clock offset: -1.798 ms

Remote clock offset: 0.593 ms

Below is generated by plot.py at 2018-07-18 14:18:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.39 Mbit/s

95th percentile per-packet one-way delay: 65.062 ms

Loss rate: 2.55%

-- Flow 1:

Average throughput: 1.25 Mbit/s

95th percentile per-packet one-way delay: 64.953 ms

Loss rate: 2.07%

-- Flow 2:

Average throughput: 1.09 Mbit/s

95th percentile per-packet one-way delay: 64.956 ms

Loss rate: 2.29%

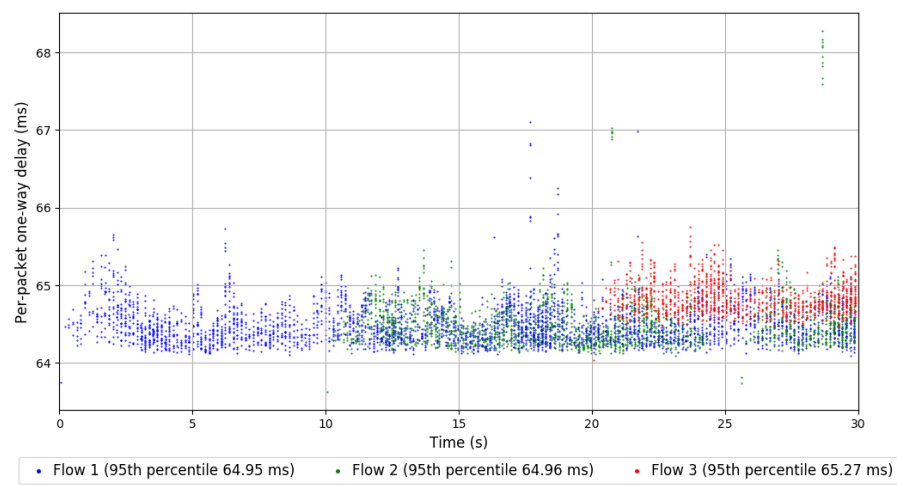
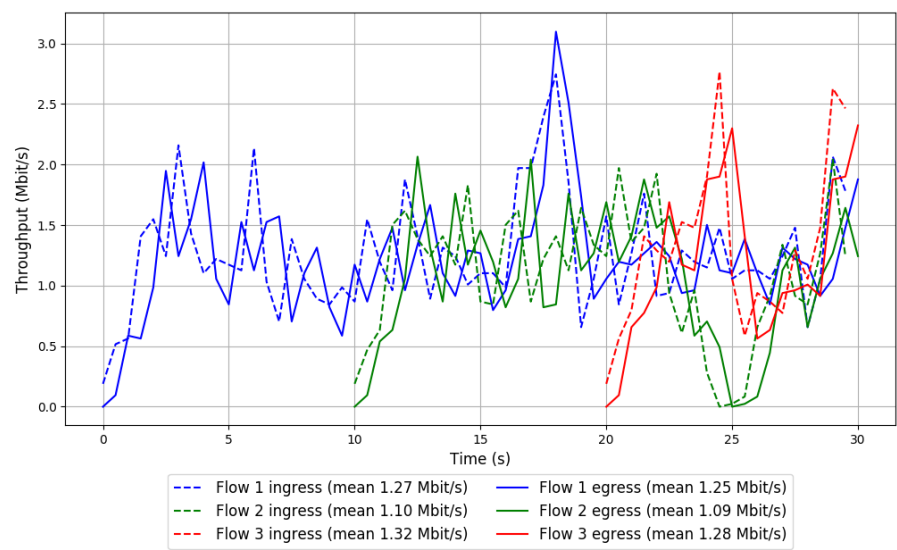
-- Flow 3:

Average throughput: 1.28 Mbit/s

95th percentile per-packet one-way delay: 65.267 ms

Loss rate: 4.38%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-07-18 09:05:14

End at: 2018-07-18 09:05:44

Local clock offset: 5.602 ms

Remote clock offset: 0.083 ms

Below is generated by plot.py at 2018-07-18 14:18:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 56.09 Mbit/s

95th percentile per-packet one-way delay: 134.469 ms

Loss rate: 27.80%

-- Flow 1:

Average throughput: 40.88 Mbit/s

95th percentile per-packet one-way delay: 95.400 ms

Loss rate: 33.26%

-- Flow 2:

Average throughput: 15.70 Mbit/s

95th percentile per-packet one-way delay: 152.310 ms

Loss rate: 5.06%

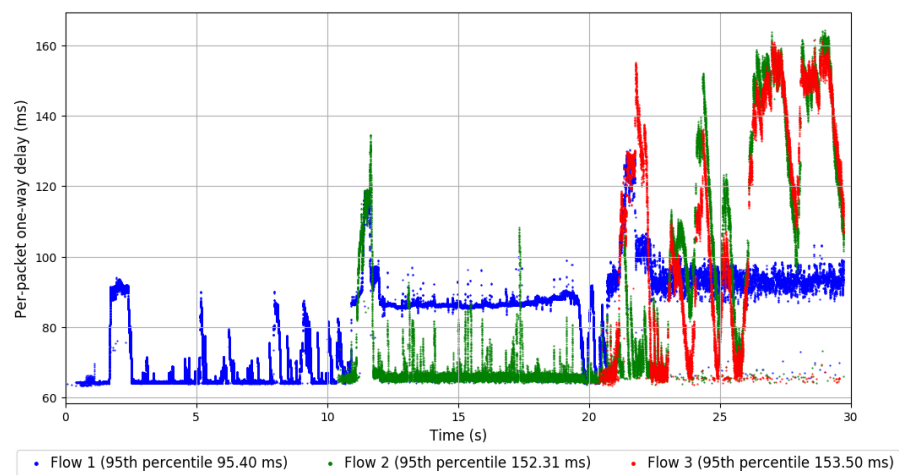
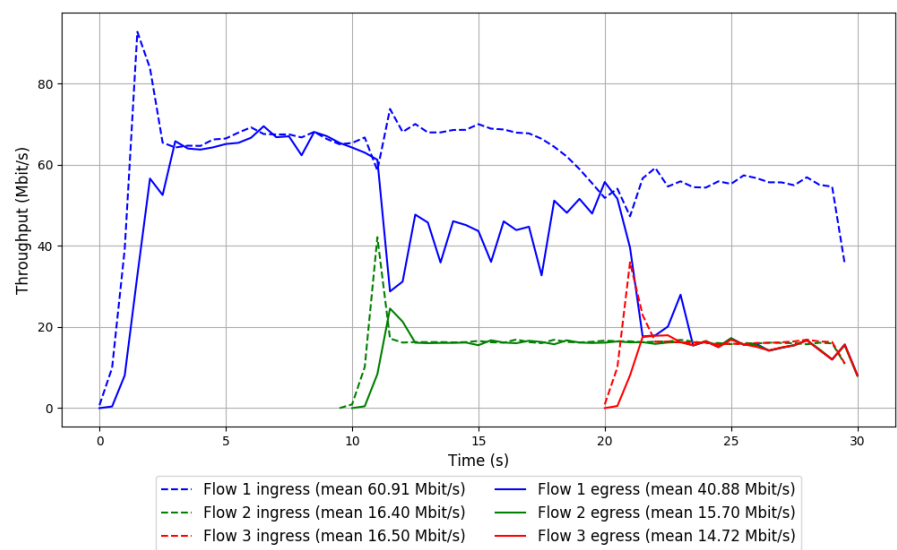
-- Flow 3:

Average throughput: 14.72 Mbit/s

95th percentile per-packet one-way delay: 153.502 ms

Loss rate: 12.28%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-07-18 09:34:33

End at: 2018-07-18 09:35:03

Local clock offset: 7.762 ms

Remote clock offset: 0.95 ms

Below is generated by plot.py at 2018-07-18 14:18:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 56.10 Mbit/s

95th percentile per-packet one-way delay: 152.667 ms

Loss rate: 26.84%

-- Flow 1:

Average throughput: 41.24 Mbit/s

95th percentile per-packet one-way delay: 94.259 ms

Loss rate: 31.64%

-- Flow 2:

Average throughput: 15.42 Mbit/s

95th percentile per-packet one-way delay: 155.873 ms

Loss rate: 5.91%

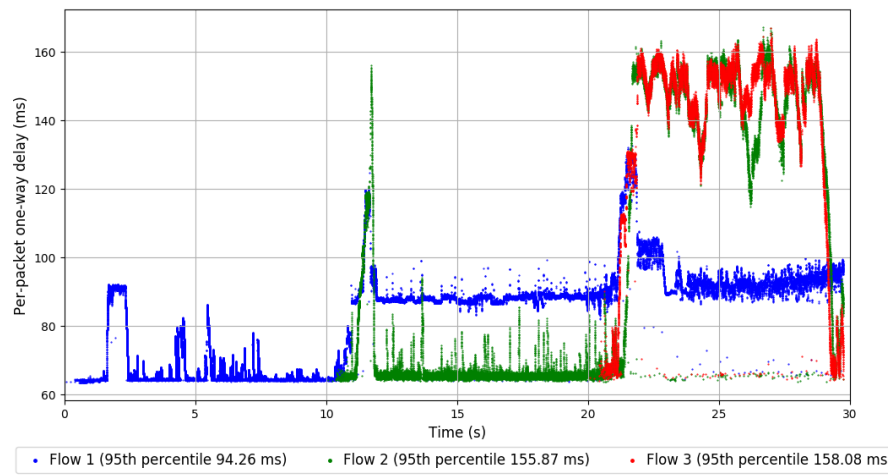
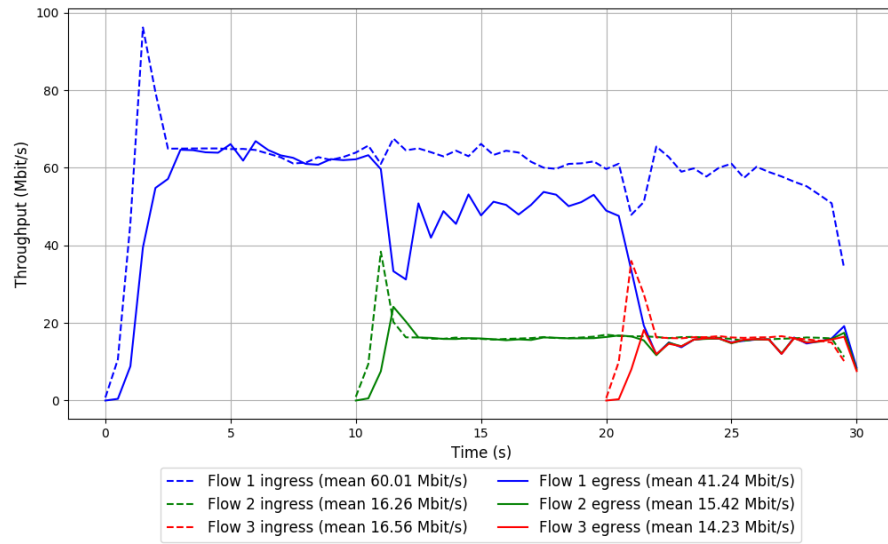
-- Flow 3:

Average throughput: 14.23 Mbit/s

95th percentile per-packet one-way delay: 158.076 ms

Loss rate: 15.55%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-07-18 10:02:37

End at: 2018-07-18 10:03:07

Local clock offset: -0.5 ms

Remote clock offset: 1.658 ms

Below is generated by plot.py at 2018-07-18 14:19:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.53 Mbit/s

95th percentile per-packet one-way delay: 103.823 ms

Loss rate: 33.06%

-- Flow 1:

Average throughput: 38.52 Mbit/s

95th percentile per-packet one-way delay: 103.115 ms

Loss rate: 39.83%

-- Flow 2:

Average throughput: 15.04 Mbit/s

95th percentile per-packet one-way delay: 104.716 ms

Loss rate: 4.65%

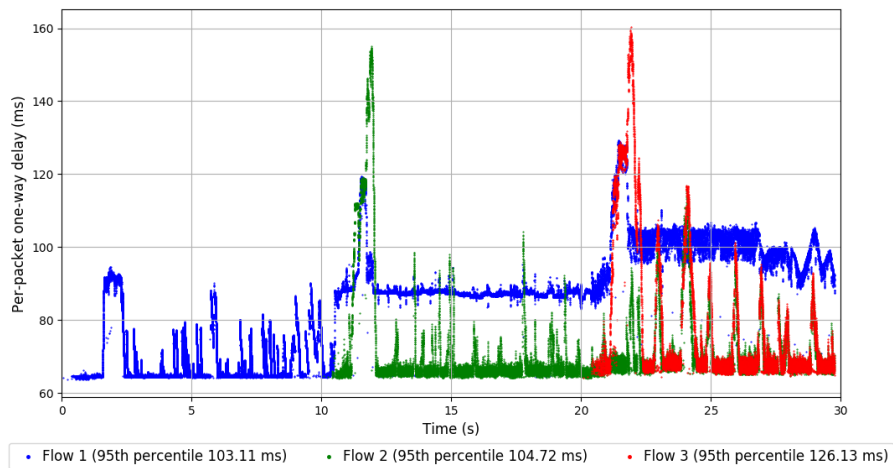
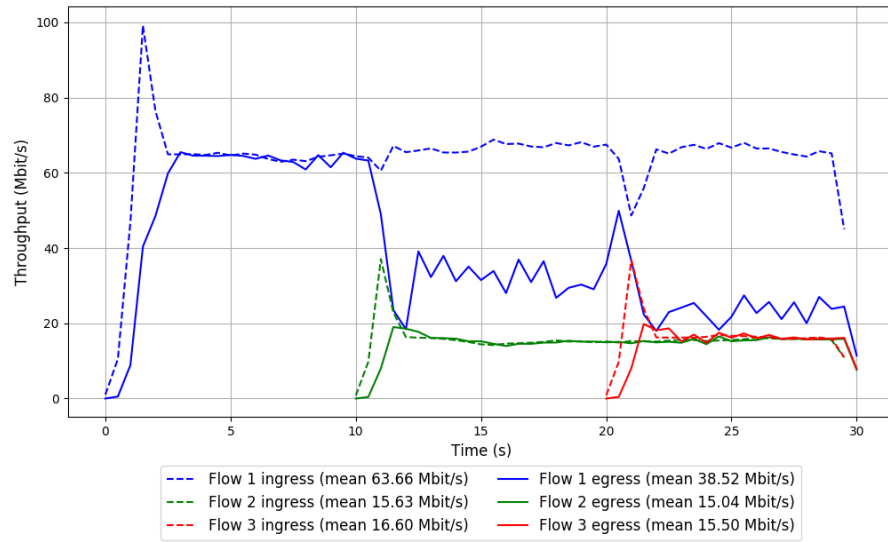
-- Flow 3:

Average throughput: 15.50 Mbit/s

95th percentile per-packet one-way delay: 126.134 ms

Loss rate: 8.18%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-07-18 10:32:15

End at: 2018-07-18 10:32:45

Local clock offset: 0.672 ms

Remote clock offset: 1.892 ms

Below is generated by plot.py at 2018-07-18 14:19:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 61.30 Mbit/s

95th percentile per-packet one-way delay: 92.106 ms

Loss rate: 19.53%

-- Flow 1:

Average throughput: 48.62 Mbit/s

95th percentile per-packet one-way delay: 92.146 ms

Loss rate: 22.75%

-- Flow 2:

Average throughput: 15.10 Mbit/s

95th percentile per-packet one-way delay: 86.202 ms

Loss rate: 4.17%

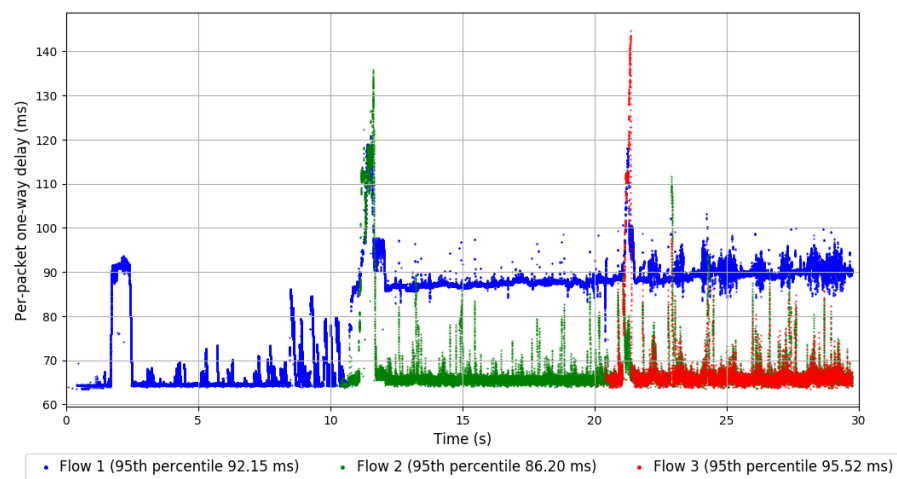
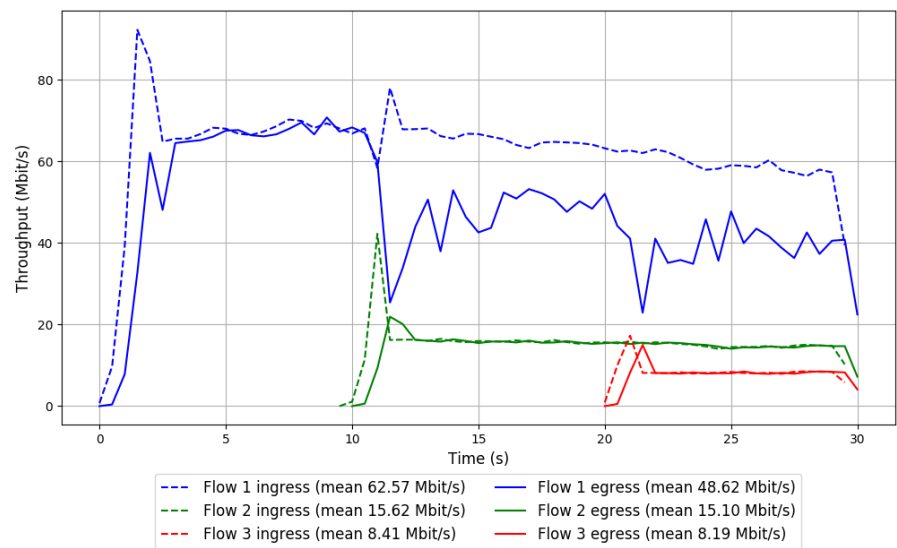
-- Flow 3:

Average throughput: 8.19 Mbit/s

95th percentile per-packet one-way delay: 95.517 ms

Loss rate: 4.24%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-07-18 11:03:35

End at: 2018-07-18 11:04:05

Local clock offset: 3.583 ms

Remote clock offset: 1.935 ms

Below is generated by plot.py at 2018-07-18 14:19:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 54.61 Mbit/s

95th percentile per-packet one-way delay: 102.942 ms

Loss rate: 33.59%

-- Flow 1:

Average throughput: 39.67 Mbit/s

95th percentile per-packet one-way delay: 102.853 ms

Loss rate: 40.13%

-- Flow 2:

Average throughput: 14.90 Mbit/s

95th percentile per-packet one-way delay: 91.386 ms

Loss rate: 5.07%

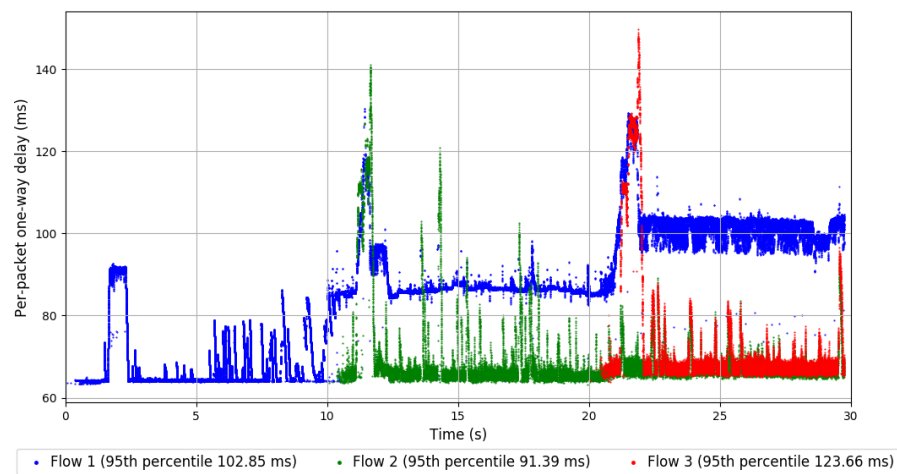
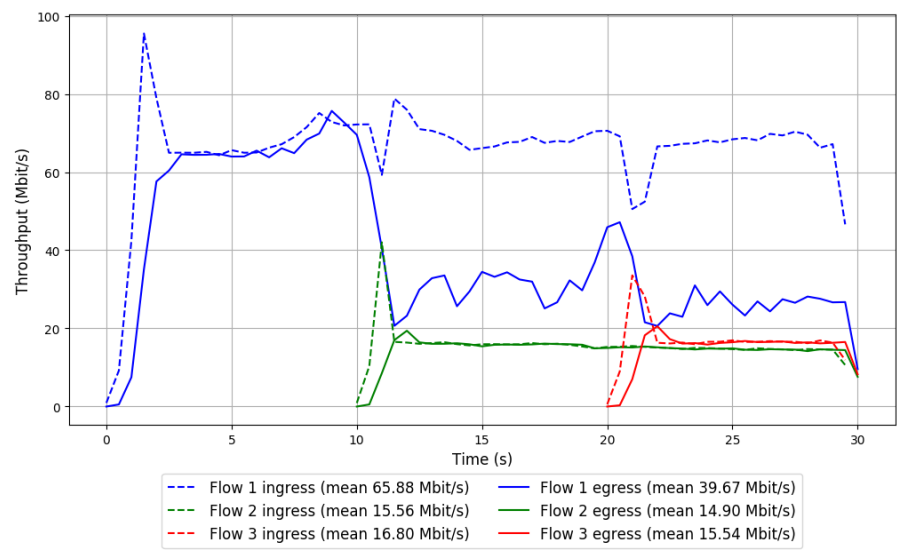
-- Flow 3:

Average throughput: 15.54 Mbit/s

95th percentile per-packet one-way delay: 123.663 ms

Loss rate: 9.03%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-07-18 11:36:11

End at: 2018-07-18 11:36:41

Local clock offset: 9.611 ms

Remote clock offset: 1.679 ms

Below is generated by plot.py at 2018-07-18 14:19:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 62.10 Mbit/s

95th percentile per-packet one-way delay: 99.114 ms

Loss rate: 17.40%

-- Flow 1:

Average throughput: 45.38 Mbit/s

95th percentile per-packet one-way delay: 99.047 ms

Loss rate: 21.16%

-- Flow 2:

Average throughput: 17.39 Mbit/s

95th percentile per-packet one-way delay: 90.784 ms

Loss rate: 3.51%

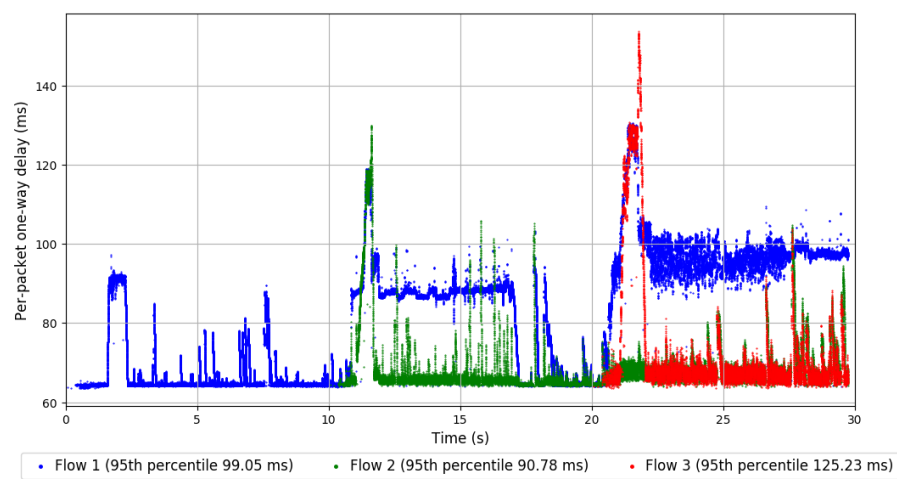
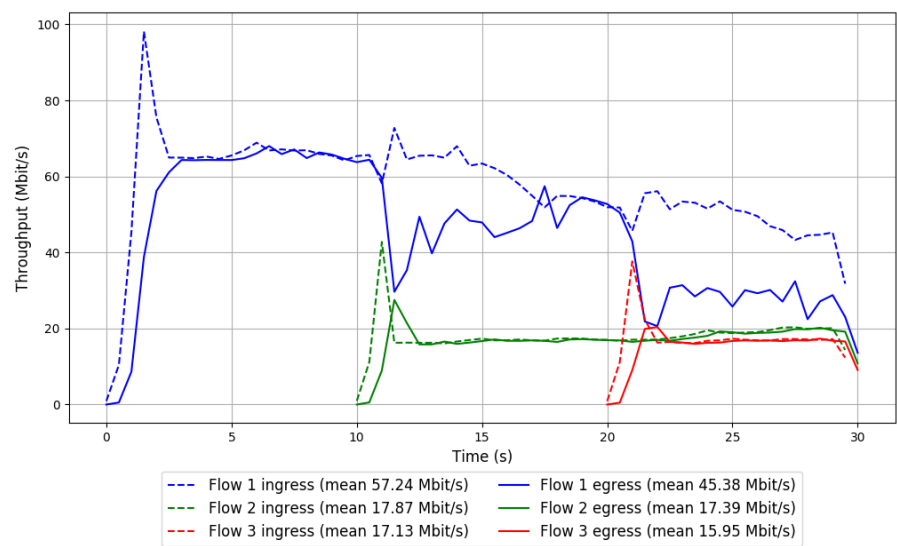
-- Flow 3:

Average throughput: 15.95 Mbit/s

95th percentile per-packet one-way delay: 125.234 ms

Loss rate: 8.47%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-07-18 12:06:40

End at: 2018-07-18 12:07:10

Local clock offset: 3.661 ms

Remote clock offset: 1.385 ms

Below is generated by plot.py at 2018-07-18 14:19:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 55.62 Mbit/s

95th percentile per-packet one-way delay: 94.442 ms

Loss rate: 28.16%

-- Flow 1:

Average throughput: 42.71 Mbit/s

95th percentile per-packet one-way delay: 91.659 ms

Loss rate: 33.22%

-- Flow 2:

Average throughput: 15.49 Mbit/s

95th percentile per-packet one-way delay: 118.225 ms

Loss rate: 3.81%

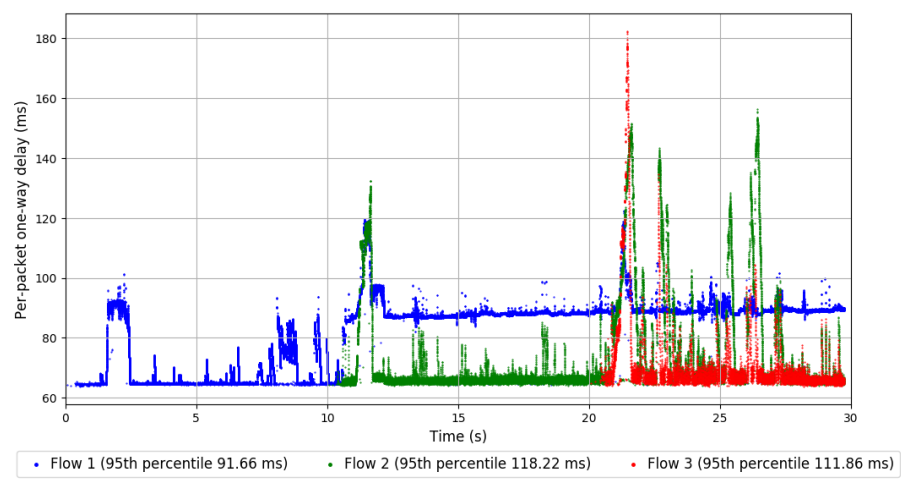
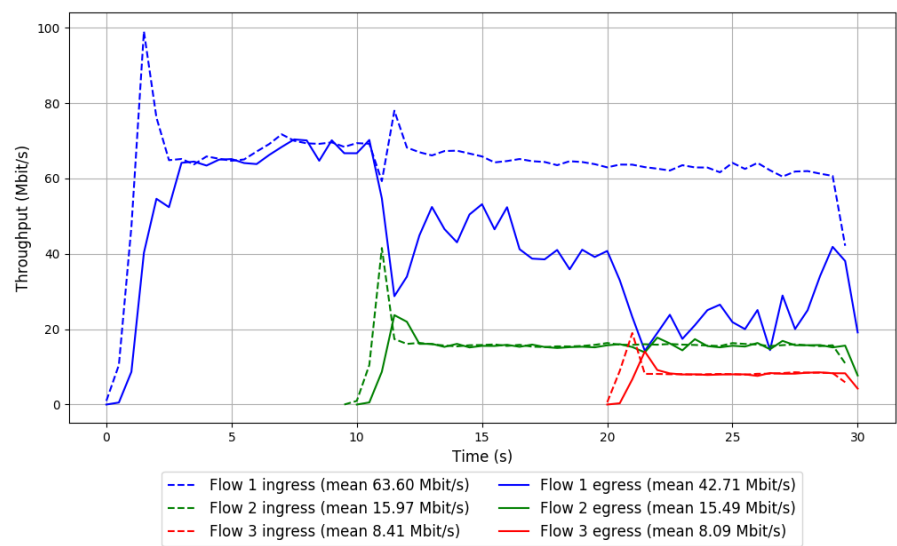
-- Flow 3:

Average throughput: 8.09 Mbit/s

95th percentile per-packet one-way delay: 111.863 ms

Loss rate: 5.38%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-07-18 12:39:57

End at: 2018-07-18 12:40:27

Local clock offset: 6.156 ms

Remote clock offset: 1.334 ms

Below is generated by plot.py at 2018-07-18 14:19:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 63.60 Mbit/s

95th percentile per-packet one-way delay: 99.404 ms

Loss rate: 14.39%

-- Flow 1:

Average throughput: 47.09 Mbit/s

95th percentile per-packet one-way delay: 98.159 ms

Loss rate: 17.06%

-- Flow 2:

Average throughput: 17.40 Mbit/s

95th percentile per-packet one-way delay: 111.766 ms

Loss rate: 3.84%

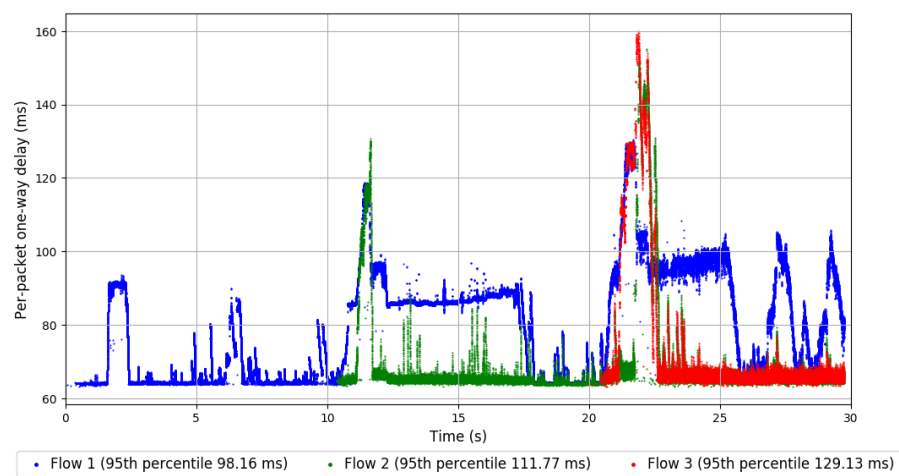
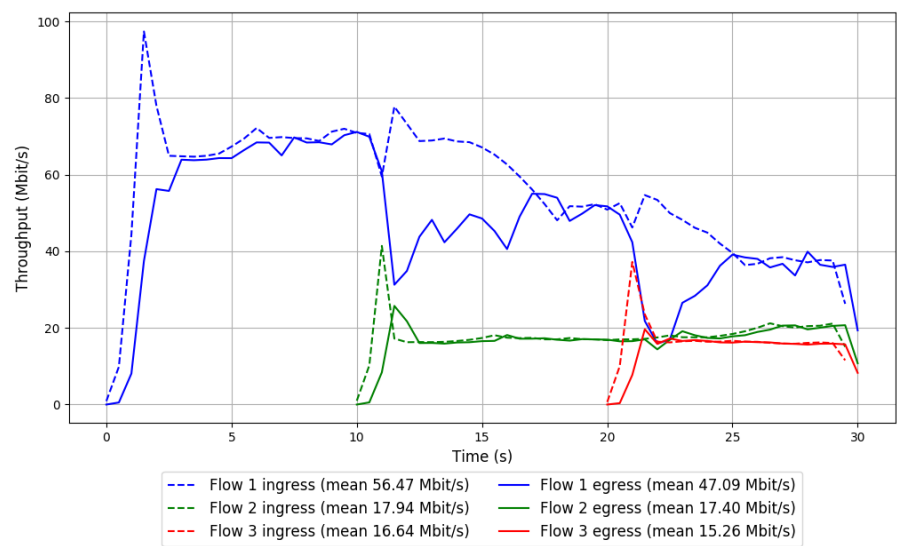
-- Flow 3:

Average throughput: 15.26 Mbit/s

95th percentile per-packet one-way delay: 129.130 ms

Loss rate: 9.78%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-07-18 13:11:21

End at: 2018-07-18 13:11:51

Local clock offset: 7.077 ms

Remote clock offset: 0.958 ms

Below is generated by plot.py at 2018-07-18 14:19:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 60.28 Mbit/s

95th percentile per-packet one-way delay: 94.950 ms

Loss rate: 24.26%

-- Flow 1:

Average throughput: 46.75 Mbit/s

95th percentile per-packet one-way delay: 94.135 ms

Loss rate: 28.65%

-- Flow 2:

Average throughput: 16.45 Mbit/s

95th percentile per-packet one-way delay: 103.832 ms

Loss rate: 3.54%

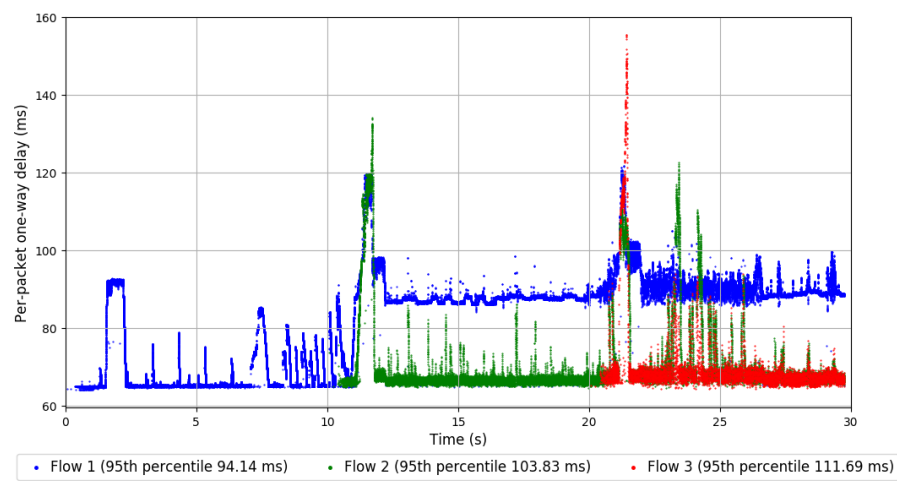
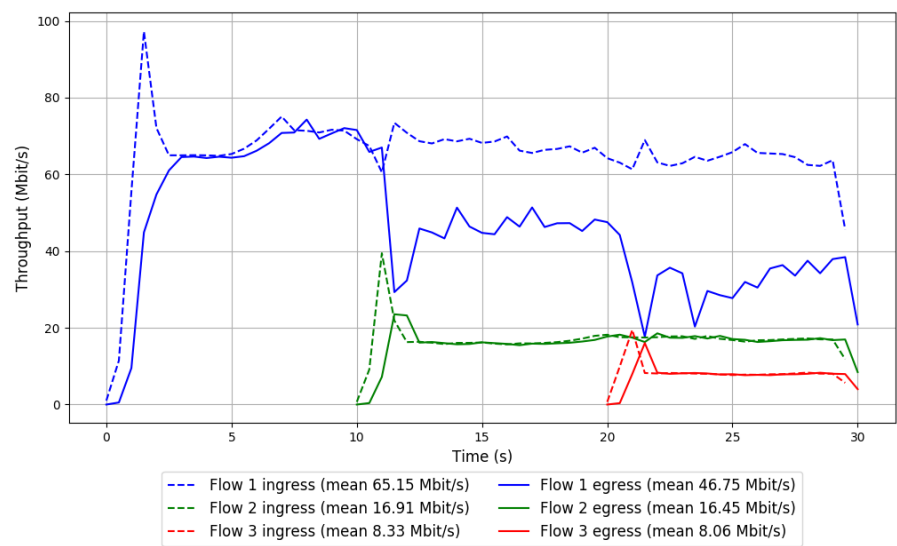
-- Flow 3:

Average throughput: 8.06 Mbit/s

95th percentile per-packet one-way delay: 111.687 ms

Loss rate: 4.86%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-07-18 13:41:47

End at: 2018-07-18 13:42:17

Local clock offset: -2.733 ms

Remote clock offset: 0.73 ms

Below is generated by plot.py at 2018-07-18 14:19:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 58.95 Mbit/s

95th percentile per-packet one-way delay: 105.076 ms

Loss rate: 27.19%

-- Flow 1:

Average throughput: 43.11 Mbit/s

95th percentile per-packet one-way delay: 103.887 ms

Loss rate: 32.69%

-- Flow 2:

Average throughput: 16.56 Mbit/s

95th percentile per-packet one-way delay: 111.924 ms

Loss rate: 4.48%

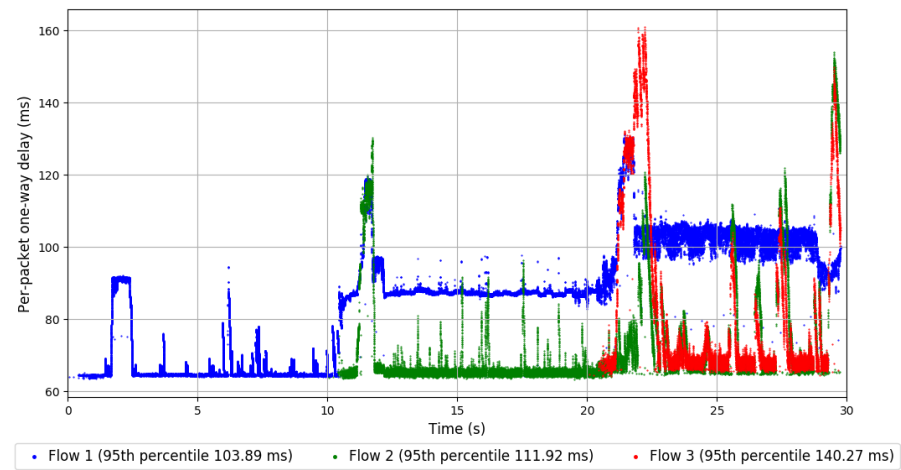
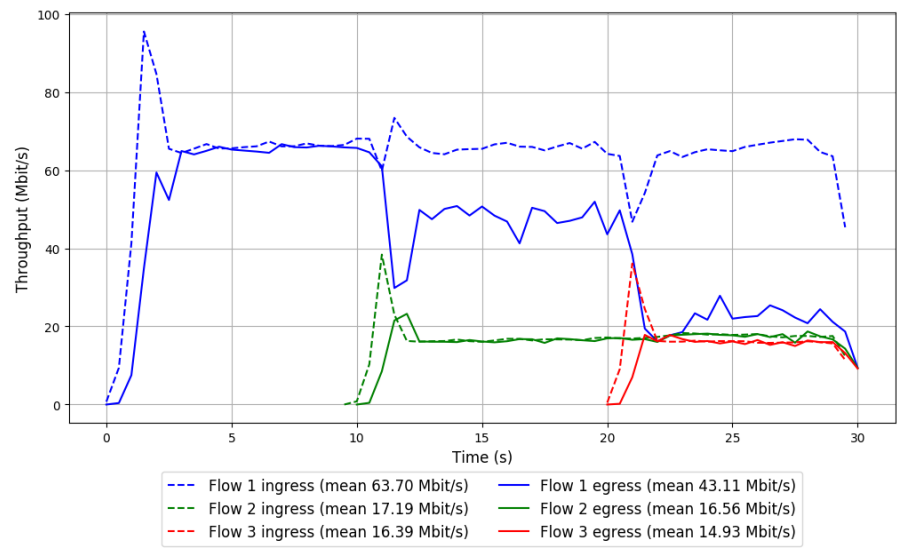
-- Flow 3:

Average throughput: 14.93 Mbit/s

95th percentile per-packet one-way delay: 140.267 ms

Loss rate: 10.41%

Run 10: Report of PCC-Allegro — Data Link

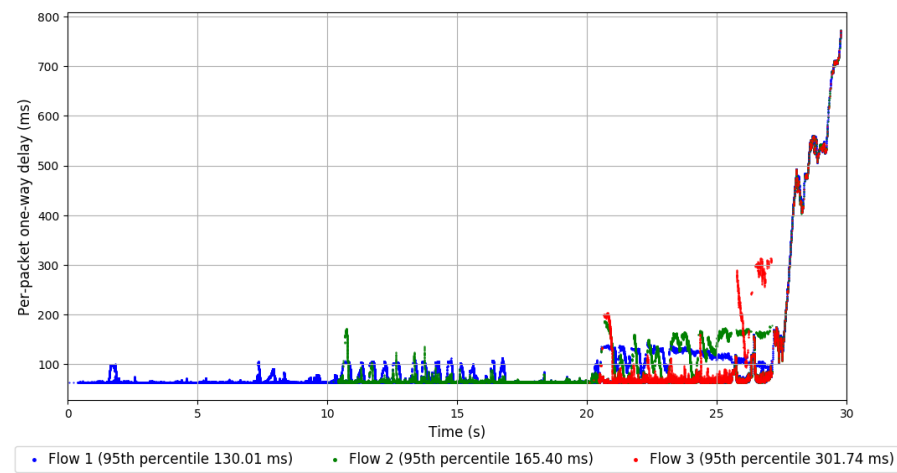
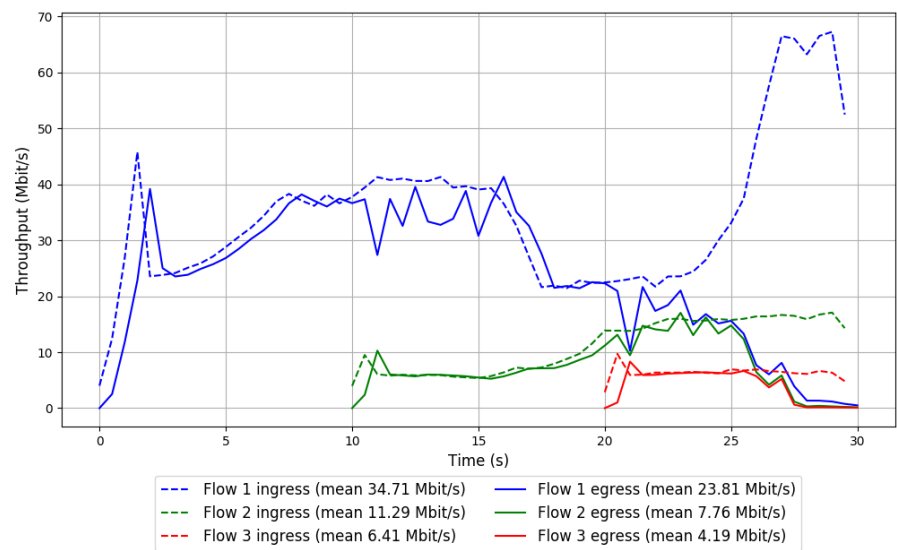


```
Run 1: Statistics of PCC-Expr

Start at: 2018-07-18 09:14:15
End at: 2018-07-18 09:14:45
Local clock offset: 6.102 ms
Remote clock offset: 0.395 ms

# Below is generated by plot.py at 2018-07-18 14:20:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 30.33 Mbit/s
95th percentile per-packet one-way delay: 150.342 ms
Loss rate: 31.98%
-- Flow 1:
Average throughput: 23.81 Mbit/s
95th percentile per-packet one-way delay: 130.015 ms
Loss rate: 31.78%
-- Flow 2:
Average throughput: 7.76 Mbit/s
95th percentile per-packet one-way delay: 165.398 ms
Loss rate: 31.86%
-- Flow 3:
Average throughput: 4.19 Mbit/s
95th percentile per-packet one-way delay: 301.743 ms
Loss rate: 35.65%
```


Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2018-07-18 09:42:57

End at: 2018-07-18 09:43:27

Local clock offset: 6.105 ms

Remote clock offset: 1.202 ms

Below is generated by plot.py at 2018-07-18 14:20:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 33.57 Mbit/s

95th percentile per-packet one-way delay: 111.329 ms

Loss rate: 30.82%

-- Flow 1:

Average throughput: 26.05 Mbit/s

95th percentile per-packet one-way delay: 109.636 ms

Loss rate: 33.23%

-- Flow 2:

Average throughput: 9.15 Mbit/s

95th percentile per-packet one-way delay: 130.007 ms

Loss rate: 17.31%

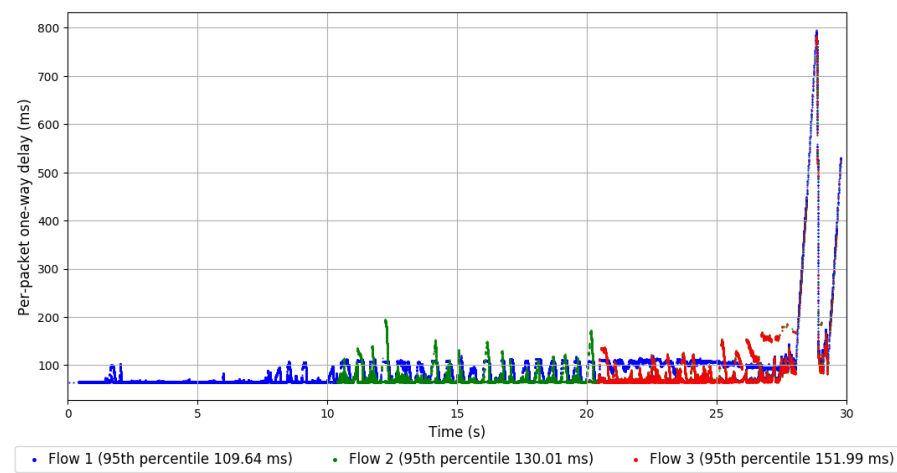
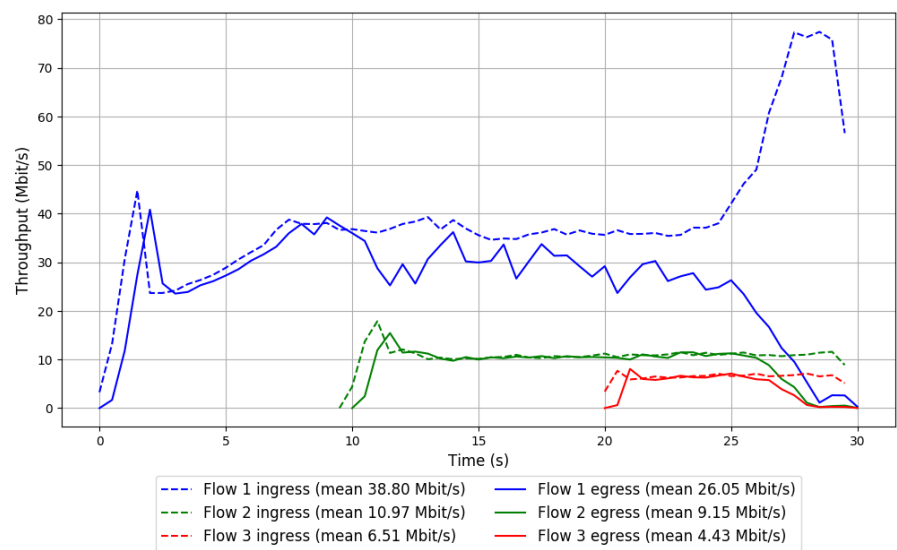
-- Flow 3:

Average throughput: 4.43 Mbit/s

95th percentile per-packet one-way delay: 151.987 ms

Loss rate: 33.10%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-07-18 10:10:56

End at: 2018-07-18 10:11:26

Local clock offset: -1.106 ms

Remote clock offset: 1.685 ms

Below is generated by plot.py at 2018-07-18 14:20:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 34.73 Mbit/s

95th percentile per-packet one-way delay: 104.792 ms

Loss rate: 6.56%

-- Flow 1:

Average throughput: 23.98 Mbit/s

95th percentile per-packet one-way delay: 106.428 ms

Loss rate: 7.70%

-- Flow 2:

Average throughput: 12.71 Mbit/s

95th percentile per-packet one-way delay: 102.608 ms

Loss rate: 4.19%

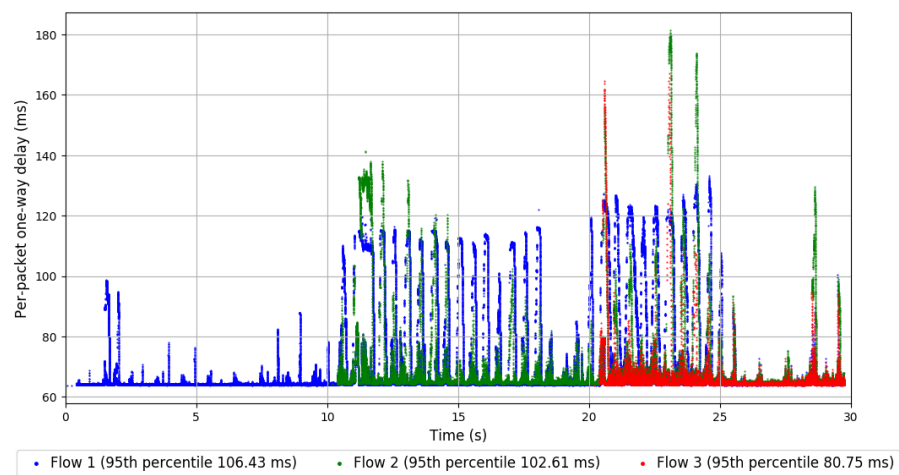
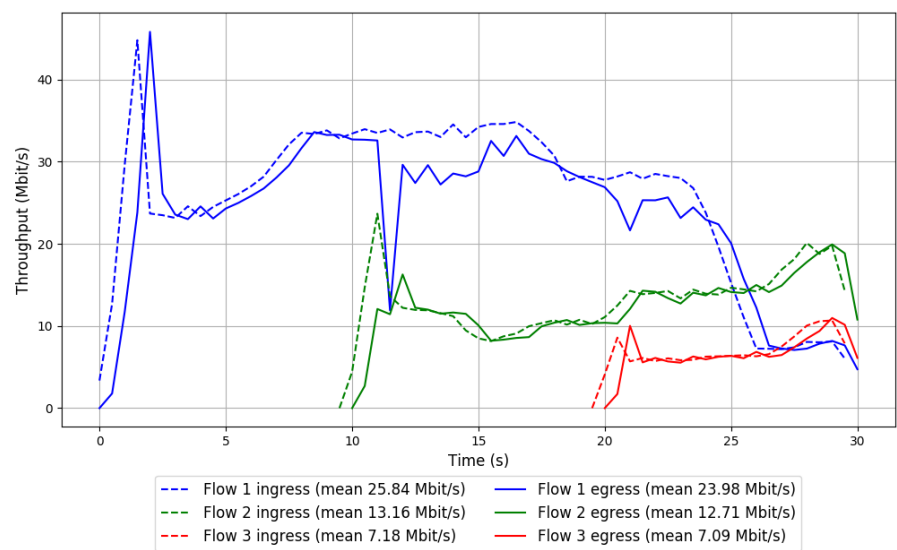
-- Flow 3:

Average throughput: 7.09 Mbit/s

95th percentile per-packet one-way delay: 80.746 ms

Loss rate: 2.84%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-07-18 10:41:10

End at: 2018-07-18 10:41:40

Local clock offset: 1.234 ms

Remote clock offset: 1.887 ms

Below is generated by plot.py at 2018-07-18 14:20:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 24.25 Mbit/s

95th percentile per-packet one-way delay: 851.261 ms

Loss rate: 59.42%

-- Flow 1:

Average throughput: 20.16 Mbit/s

95th percentile per-packet one-way delay: 687.325 ms

Loss rate: 55.99%

-- Flow 2:

Average throughput: 6.02 Mbit/s

95th percentile per-packet one-way delay: 896.498 ms

Loss rate: 65.29%

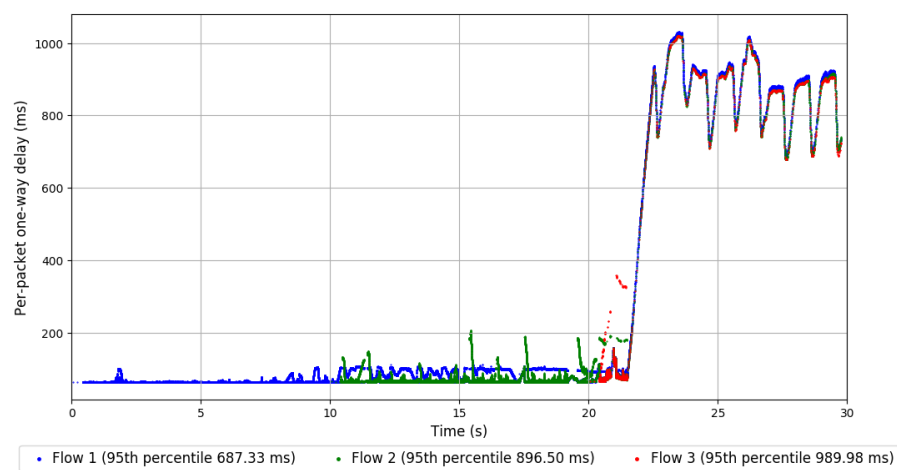
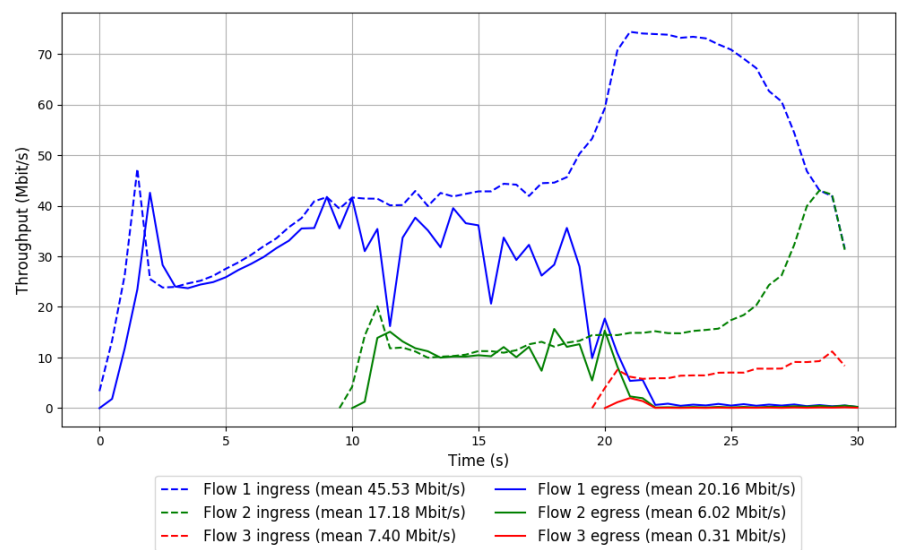
-- Flow 3:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 989.981 ms

Loss rate: 95.86%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-07-18 11:12:36

End at: 2018-07-18 11:13:06

Local clock offset: 4.998 ms

Remote clock offset: 1.952 ms

Below is generated by plot.py at 2018-07-18 14:20:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 35.11 Mbit/s

95th percentile per-packet one-way delay: 106.718 ms

Loss rate: 28.84%

-- Flow 1:

Average throughput: 29.30 Mbit/s

95th percentile per-packet one-way delay: 105.397 ms

Loss rate: 30.75%

-- Flow 2:

Average throughput: 6.28 Mbit/s

95th percentile per-packet one-way delay: 163.093 ms

Loss rate: 12.87%

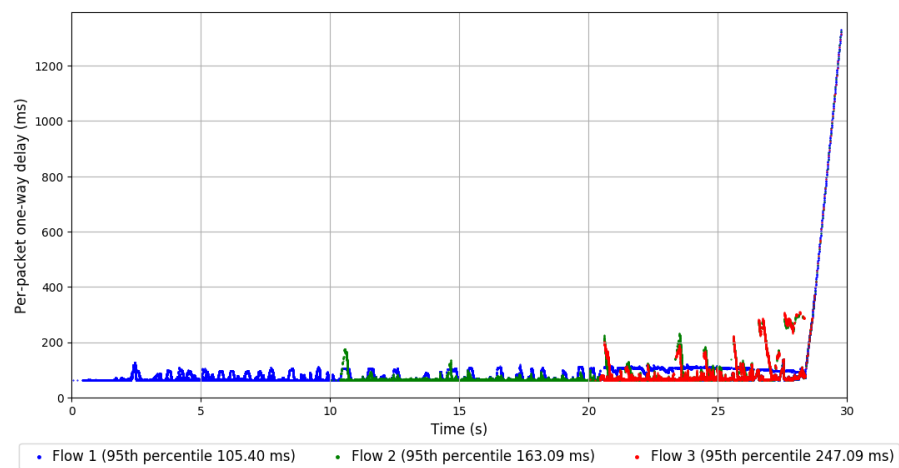
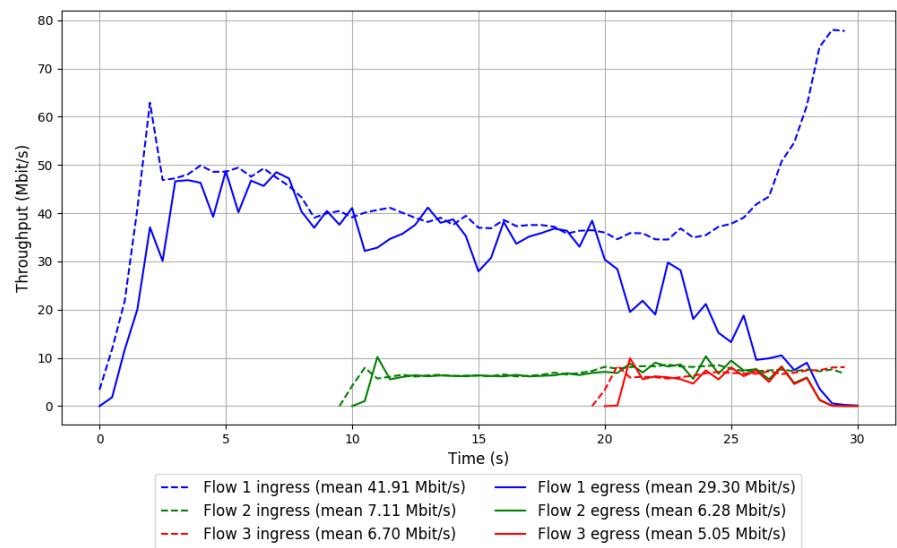
-- Flow 3:

Average throughput: 5.05 Mbit/s

95th percentile per-packet one-way delay: 247.085 ms

Loss rate: 26.95%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-07-18 11:45:12

End at: 2018-07-18 11:45:42

Local clock offset: 7.356 ms

Remote clock offset: 1.634 ms

Below is generated by plot.py at 2018-07-18 14:20:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 39.00 Mbit/s

95th percentile per-packet one-way delay: 108.407 ms

Loss rate: 12.32%

-- Flow 1:

Average throughput: 28.77 Mbit/s

95th percentile per-packet one-way delay: 107.823 ms

Loss rate: 15.07%

-- Flow 2:

Average throughput: 10.75 Mbit/s

95th percentile per-packet one-way delay: 104.866 ms

Loss rate: 3.04%

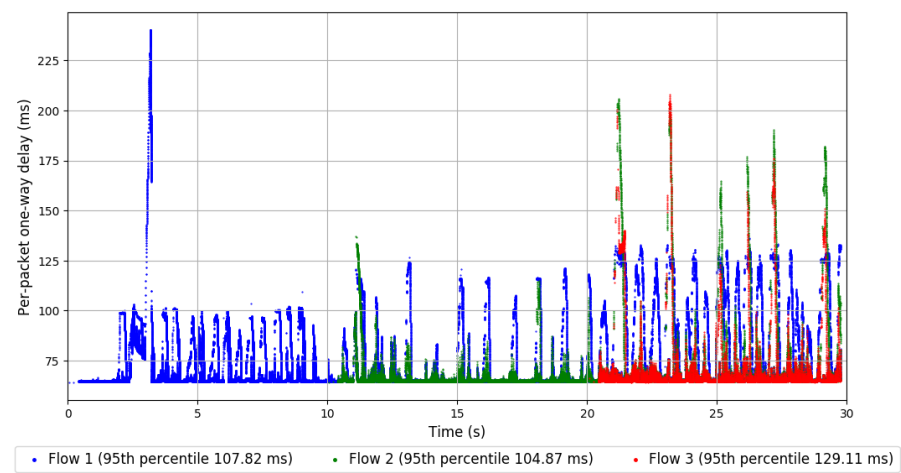
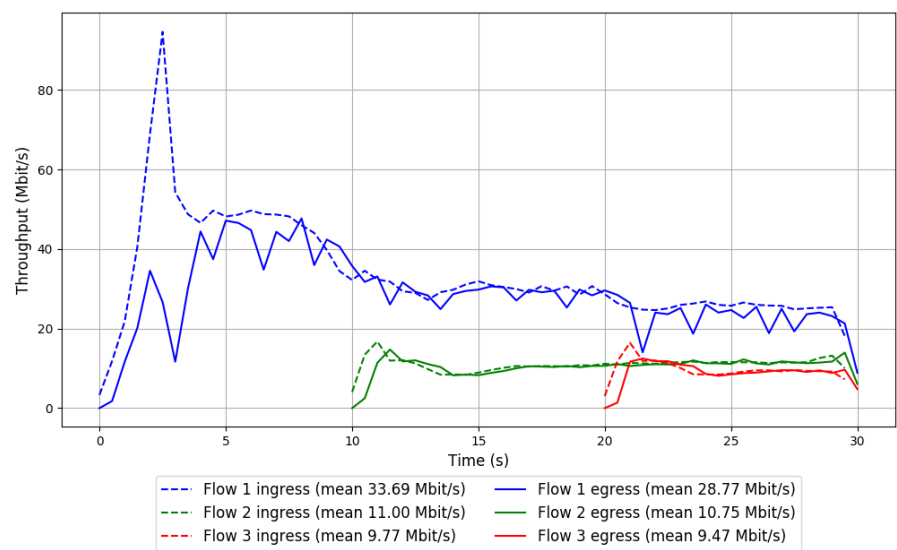
-- Flow 3:

Average throughput: 9.47 Mbit/s

95th percentile per-packet one-way delay: 129.113 ms

Loss rate: 4.68%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

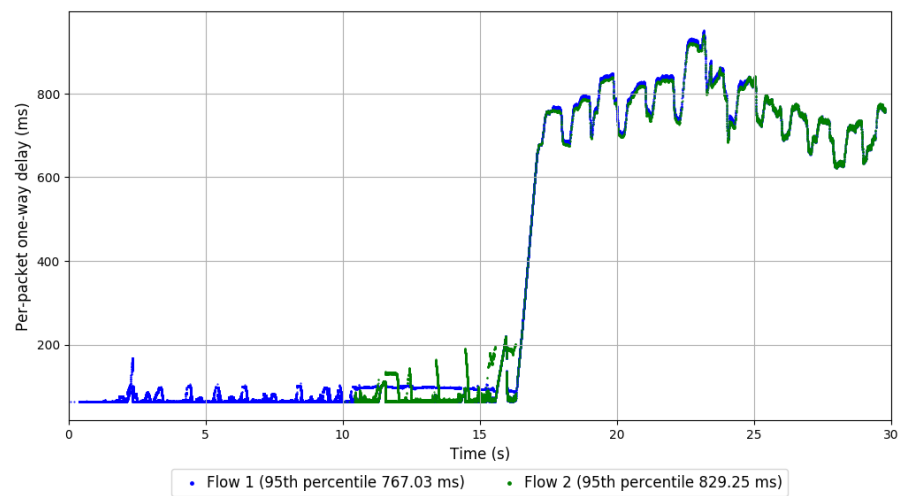
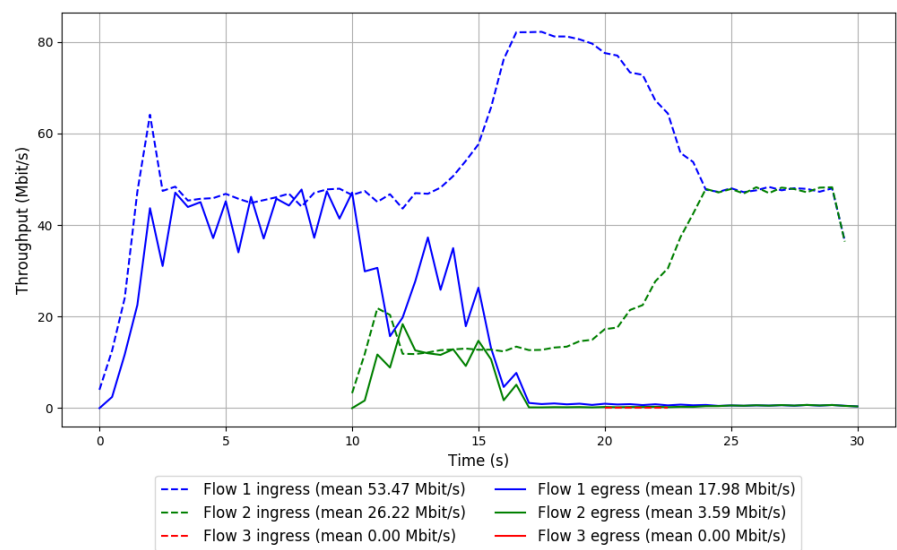
Start at: 2018-07-18 12:15:57

End at: 2018-07-18 12:16:27

Local clock offset: 4.585 ms

Remote clock offset: 1.413 ms

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-07-18 12:49:29

End at: 2018-07-18 12:49:59

Local clock offset: 6.948 ms

Remote clock offset: 1.221 ms

Below is generated by plot.py at 2018-07-18 14:21:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.35 Mbit/s

95th percentile per-packet one-way delay: 737.965 ms

Loss rate: 73.52%

-- Flow 1:

Average throughput: 17.14 Mbit/s

95th percentile per-packet one-way delay: 716.347 ms

Loss rate: 68.29%

-- Flow 2:

Average throughput: 3.34 Mbit/s

95th percentile per-packet one-way delay: 756.670 ms

Loss rate: 88.37%

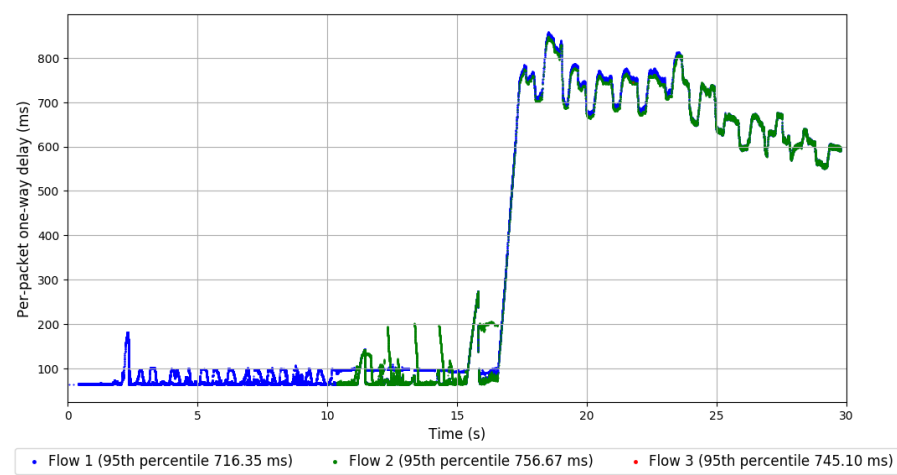
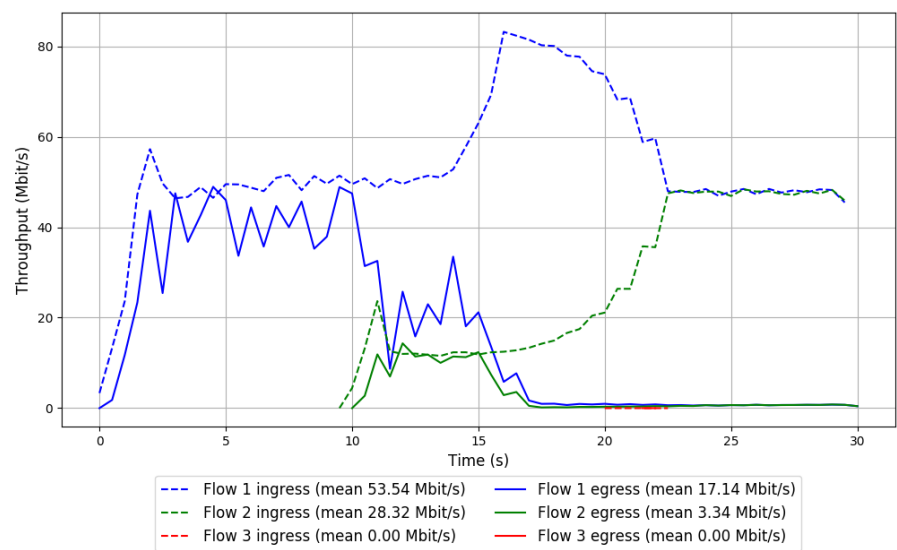
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 745.102 ms

Loss rate: 92.31%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-07-18 13:20:08

End at: 2018-07-18 13:20:38

Local clock offset: 1.377 ms

Remote clock offset: 1.007 ms

Below is generated by plot.py at 2018-07-18 14:21:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 38.41 Mbit/s

95th percentile per-packet one-way delay: 119.869 ms

Loss rate: 10.04%

-- Flow 1:

Average throughput: 26.71 Mbit/s

95th percentile per-packet one-way delay: 118.774 ms

Loss rate: 12.31%

-- Flow 2:

Average throughput: 14.05 Mbit/s

95th percentile per-packet one-way delay: 132.262 ms

Loss rate: 4.66%

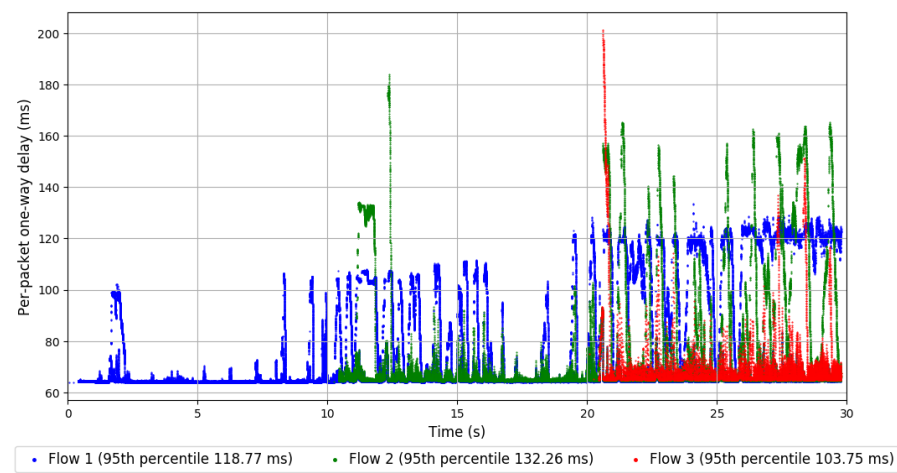
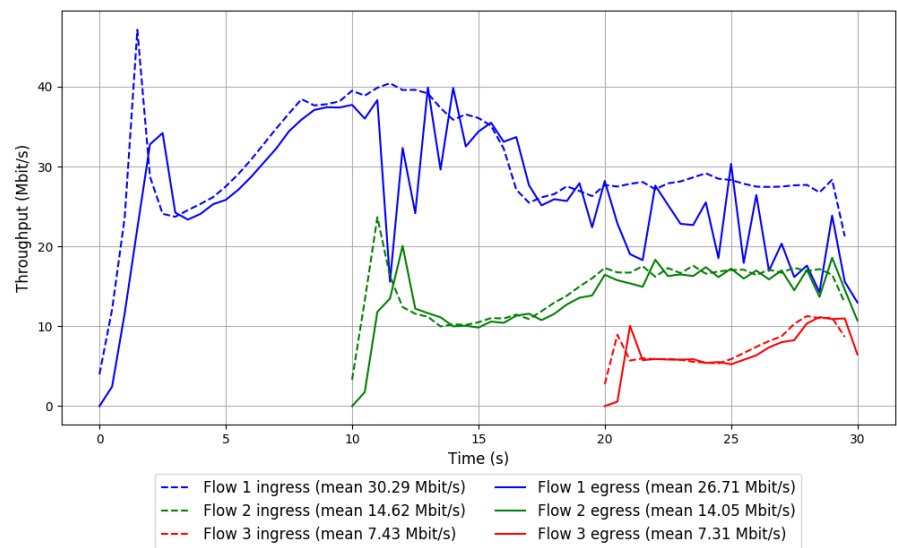
-- Flow 3:

Average throughput: 7.31 Mbit/s

95th percentile per-packet one-way delay: 103.752 ms

Loss rate: 3.35%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-07-18 13:50:56

End at: 2018-07-18 13:51:26

Local clock offset: -1.876 ms

Remote clock offset: 0.652 ms

Below is generated by plot.py at 2018-07-18 14:21:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 34.74 Mbit/s

95th percentile per-packet one-way delay: 115.042 ms

Loss rate: 5.30%

-- Flow 1:

Average throughput: 24.42 Mbit/s

95th percentile per-packet one-way delay: 111.454 ms

Loss rate: 5.42%

-- Flow 2:

Average throughput: 12.09 Mbit/s

95th percentile per-packet one-way delay: 129.734 ms

Loss rate: 5.39%

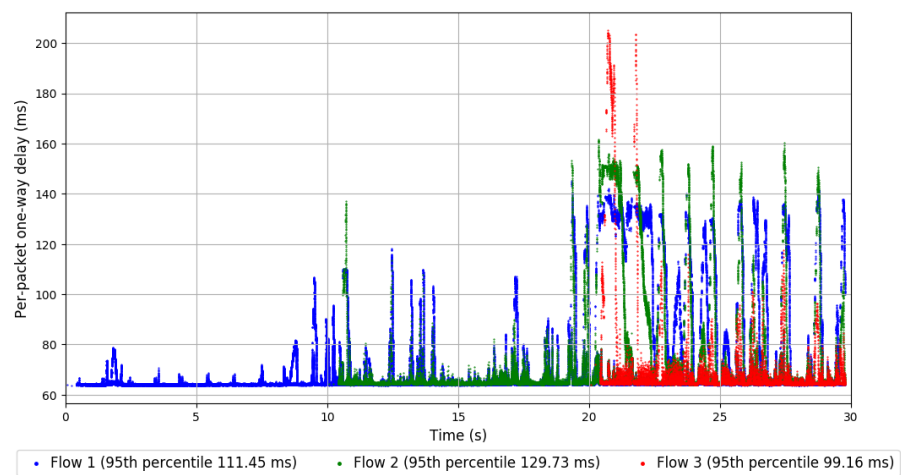
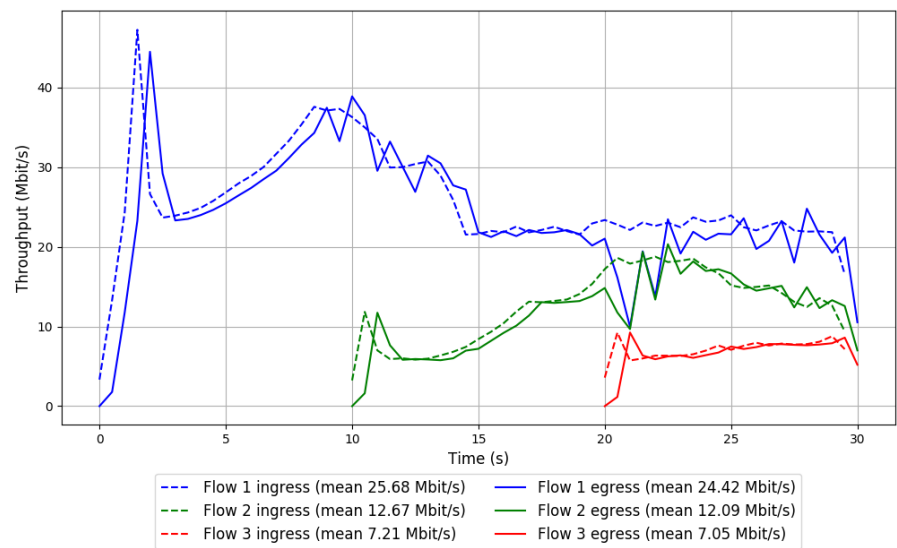
-- Flow 3:

Average throughput: 7.05 Mbit/s

95th percentile per-packet one-way delay: 99.163 ms

Loss rate: 3.78%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-07-18 09:22:49

End at: 2018-07-18 09:23:19

Local clock offset: 7.168 ms

Remote clock offset: 0.678 ms

Below is generated by plot.py at 2018-07-18 14:21:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.13 Mbit/s

95th percentile per-packet one-way delay: 64.898 ms

Loss rate: 1.09%

-- Flow 1:

Average throughput: 4.14 Mbit/s

95th percentile per-packet one-way delay: 64.921 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 3.02 Mbit/s

95th percentile per-packet one-way delay: 64.812 ms

Loss rate: 1.33%

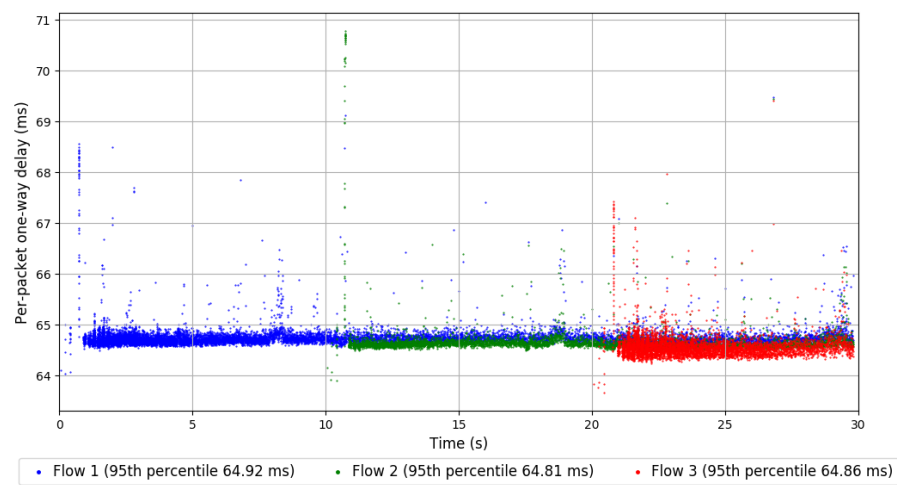
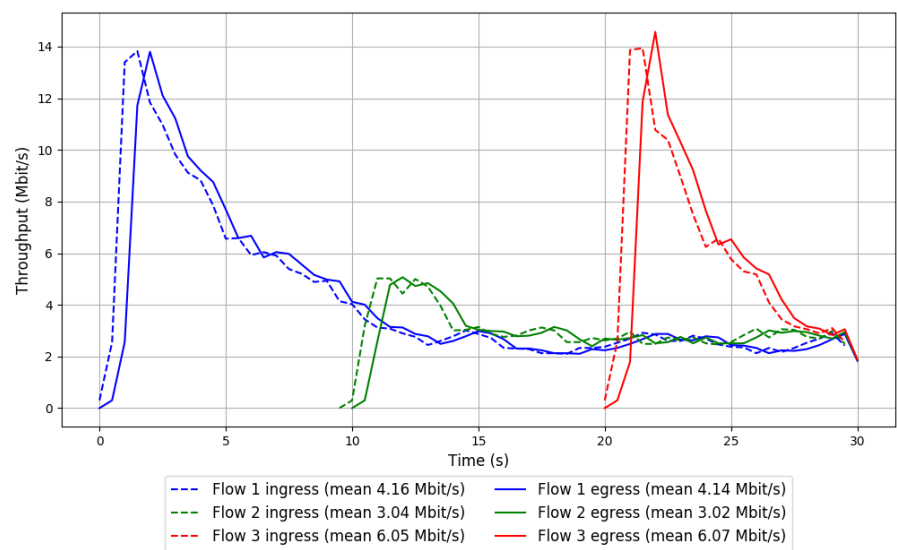
-- Flow 3:

Average throughput: 6.07 Mbit/s

95th percentile per-packet one-way delay: 64.859 ms

Loss rate: 1.36%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-07-18 09:51:42

End at: 2018-07-18 09:52:12

Local clock offset: 1.99 ms

Remote clock offset: 1.459 ms

Below is generated by plot.py at 2018-07-18 14:21:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.18 Mbit/s

95th percentile per-packet one-way delay: 65.142 ms

Loss rate: 0.95%

-- Flow 1:

Average throughput: 3.98 Mbit/s

95th percentile per-packet one-way delay: 64.869 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 4.98 Mbit/s

95th percentile per-packet one-way delay: 65.215 ms

Loss rate: 0.83%

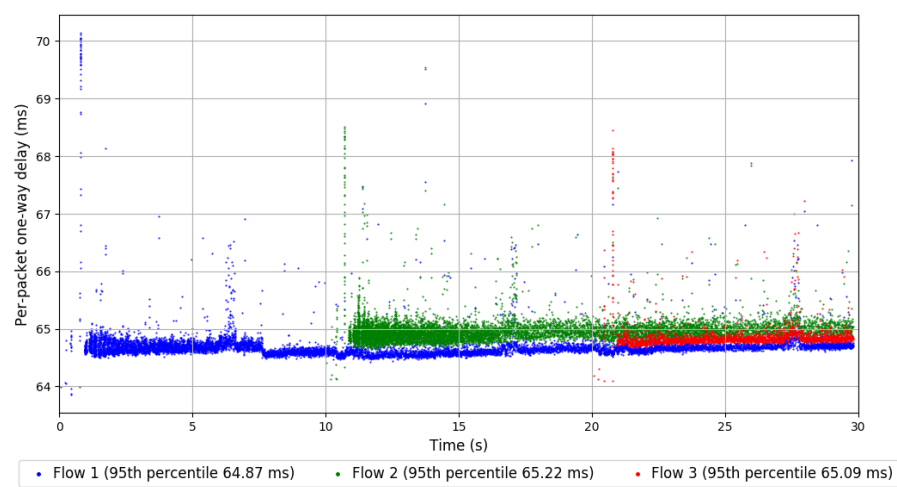
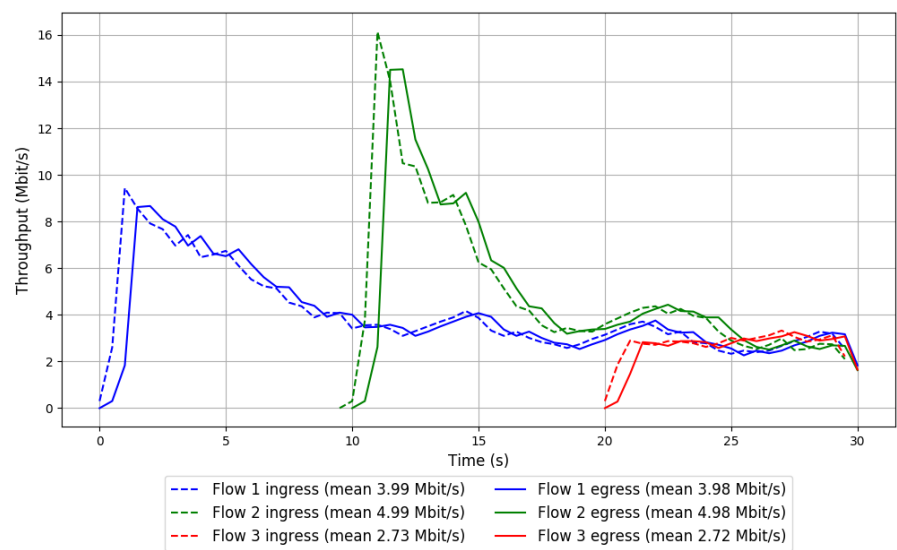
-- Flow 3:

Average throughput: 2.72 Mbit/s

95th percentile per-packet one-way delay: 65.091 ms

Loss rate: 2.14%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-07-18 10:19:43

End at: 2018-07-18 10:20:13

Local clock offset: -0.191 ms

Remote clock offset: 1.824 ms

Below is generated by plot.py at 2018-07-18 14:21:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.96 Mbit/s

95th percentile per-packet one-way delay: 64.646 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 5.01 Mbit/s

95th percentile per-packet one-way delay: 64.538 ms

Loss rate: 0.79%

-- Flow 2:

Average throughput: 5.70 Mbit/s

95th percentile per-packet one-way delay: 64.622 ms

Loss rate: 0.65%

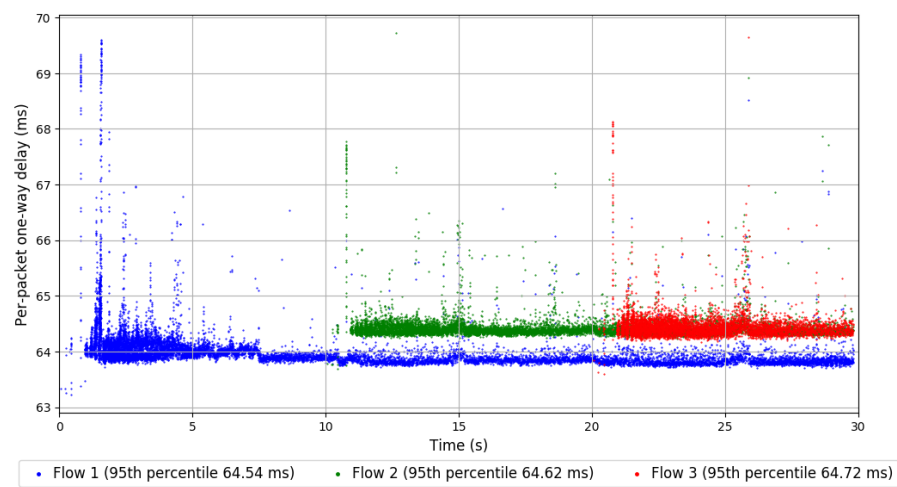
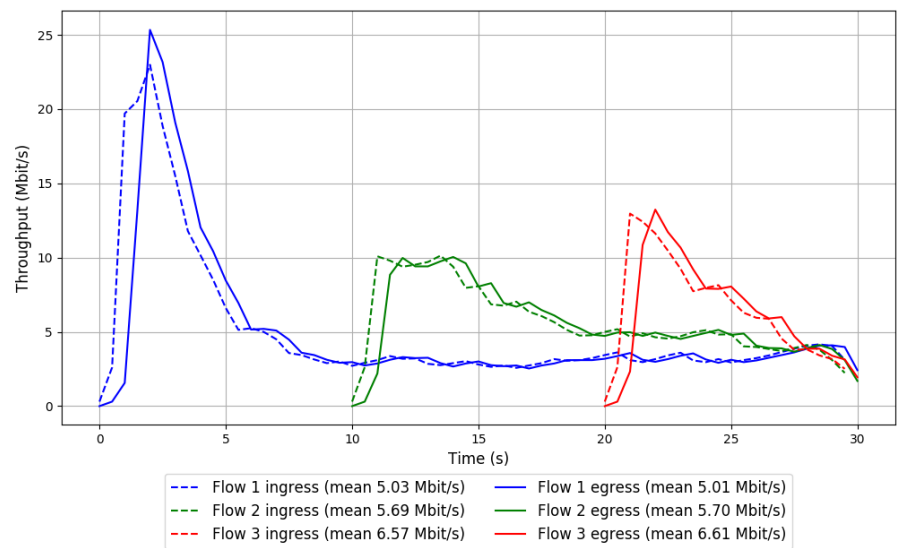
-- Flow 3:

Average throughput: 6.61 Mbit/s

95th percentile per-packet one-way delay: 64.721 ms

Loss rate: 1.06%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-07-18 10:51:13

End at: 2018-07-18 10:51:43

Local clock offset: 2.693 ms

Remote clock offset: 2.005 ms

Below is generated by plot.py at 2018-07-18 14:21:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.08 Mbit/s

95th percentile per-packet one-way delay: 64.721 ms

Loss rate: 1.28%

-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 64.658 ms

Loss rate: 1.22%

-- Flow 2:

Average throughput: 3.34 Mbit/s

95th percentile per-packet one-way delay: 64.179 ms

Loss rate: 1.32%

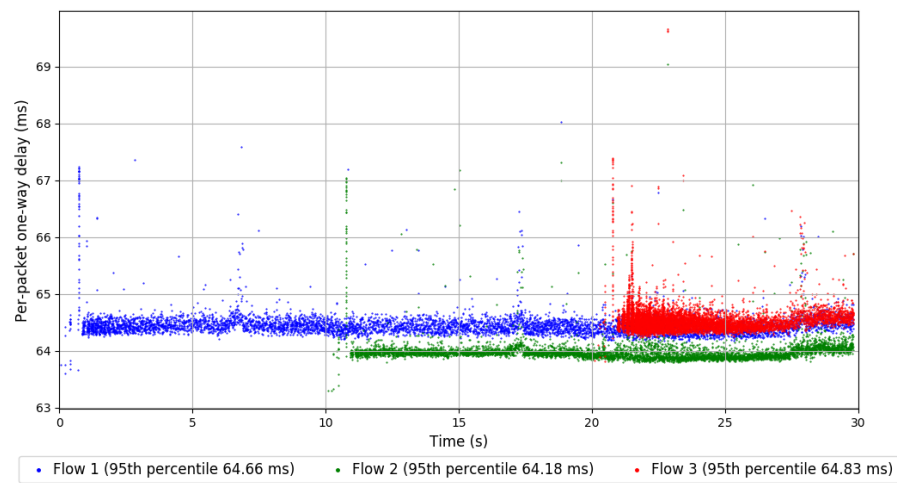
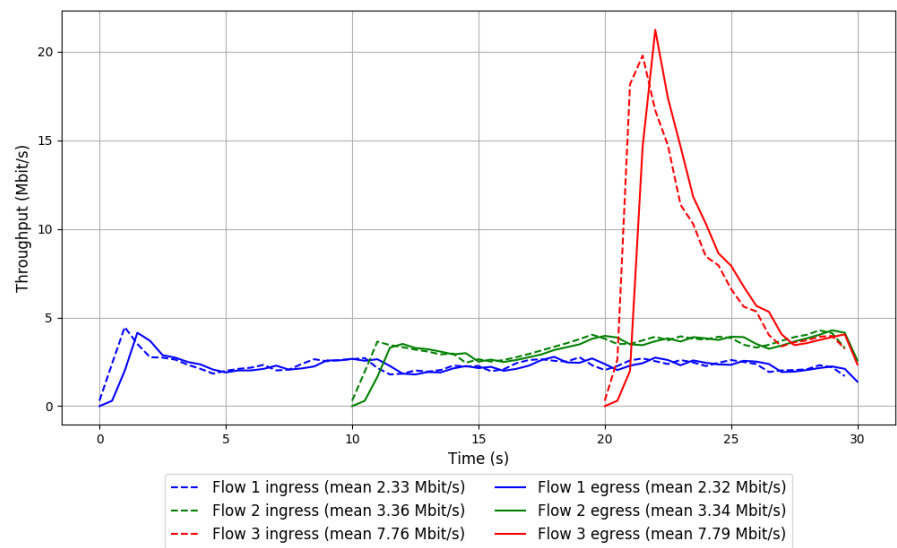
-- Flow 3:

Average throughput: 7.79 Mbit/s

95th percentile per-packet one-way delay: 64.829 ms

Loss rate: 1.30%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-07-18 11:22:59

End at: 2018-07-18 11:23:29

Local clock offset: 7.936 ms

Remote clock offset: 1.866 ms

Below is generated by plot.py at 2018-07-18 14:21:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.71 Mbit/s

95th percentile per-packet one-way delay: 64.327 ms

Loss rate: 1.73%

-- Flow 1:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 64.370 ms

Loss rate: 1.48%

-- Flow 2:

Average throughput: 2.47 Mbit/s

95th percentile per-packet one-way delay: 63.975 ms

Loss rate: 1.73%

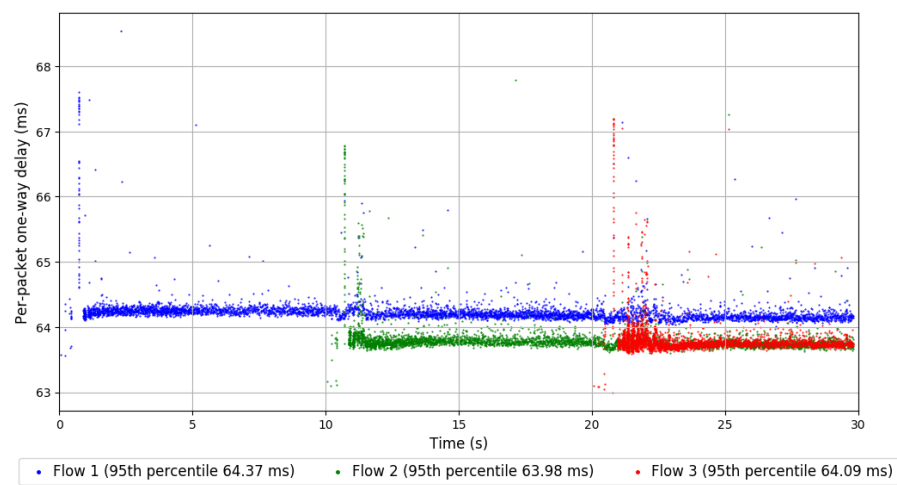
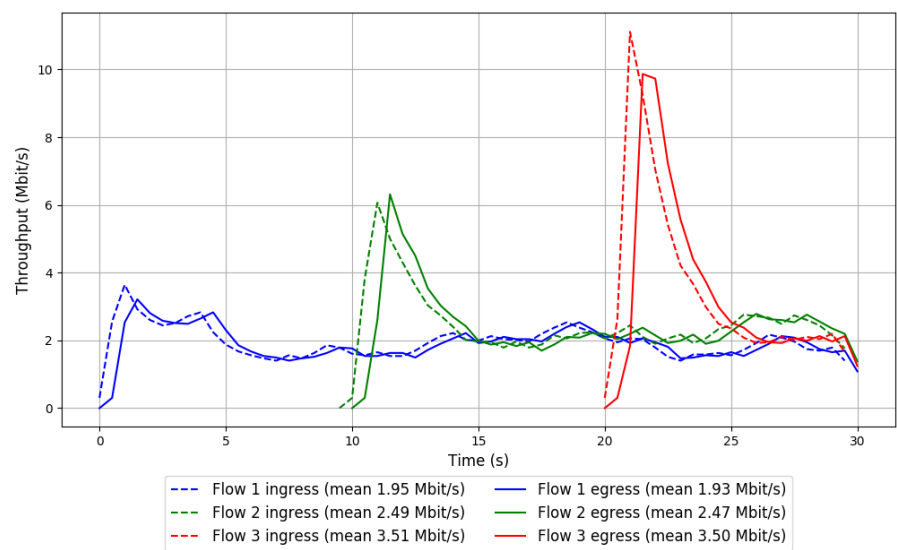
-- Flow 3:

Average throughput: 3.50 Mbit/s

95th percentile per-packet one-way delay: 64.087 ms

Loss rate: 2.15%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-07-18 11:54:25

End at: 2018-07-18 11:54:55

Local clock offset: 4.826 ms

Remote clock offset: 1.572 ms

Below is generated by plot.py at 2018-07-18 14:21:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.20 Mbit/s

95th percentile per-packet one-way delay: 64.943 ms

Loss rate: 1.27%

-- Flow 1:

Average throughput: 3.76 Mbit/s

95th percentile per-packet one-way delay: 64.855 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 2.66 Mbit/s

95th percentile per-packet one-way delay: 64.921 ms

Loss rate: 1.57%

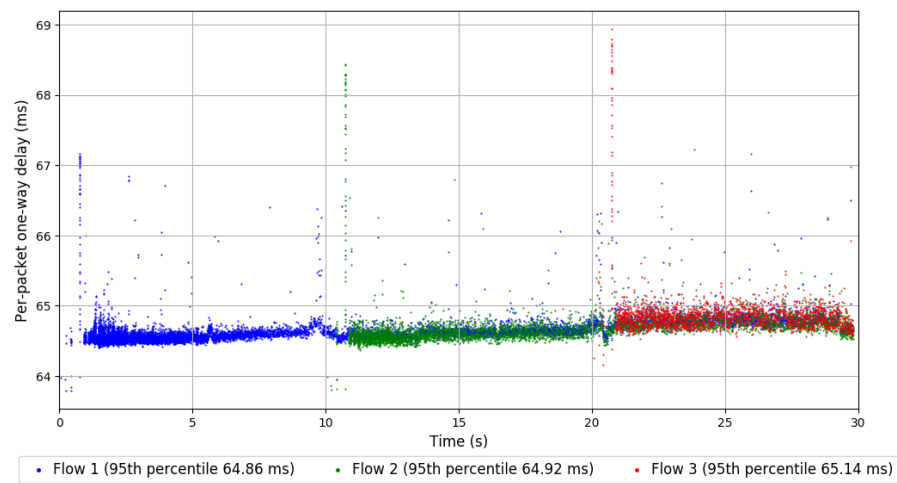
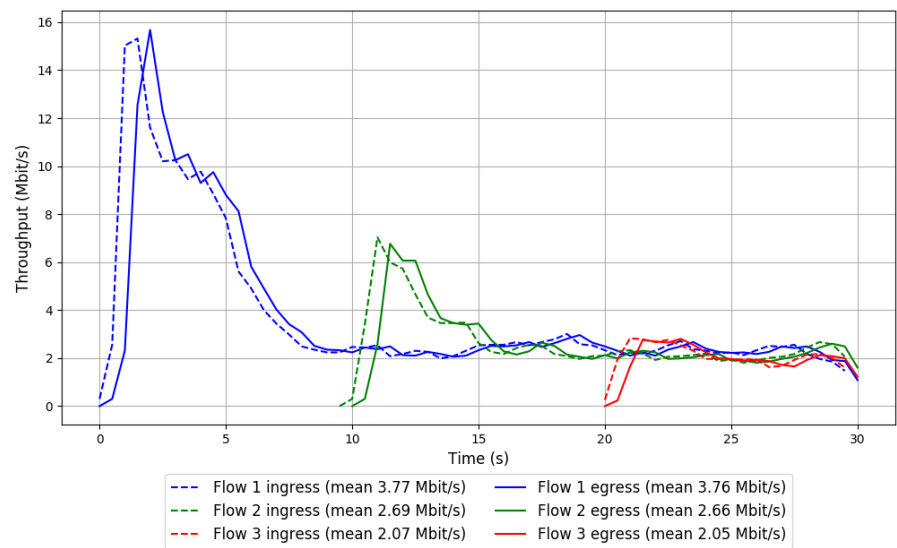
-- Flow 3:

Average throughput: 2.05 Mbit/s

95th percentile per-packet one-way delay: 65.139 ms

Loss rate: 2.54%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-07-18 12:26:27

End at: 2018-07-18 12:26:57

Local clock offset: 5.798 ms

Remote clock offset: 1.367 ms

Below is generated by plot.py at 2018-07-18 14:21:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.72 Mbit/s

95th percentile per-packet one-way delay: 65.031 ms

Loss rate: 1.53%

-- Flow 1:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 65.100 ms

Loss rate: 1.59%

-- Flow 2:

Average throughput: 4.21 Mbit/s

95th percentile per-packet one-way delay: 64.626 ms

Loss rate: 1.40%

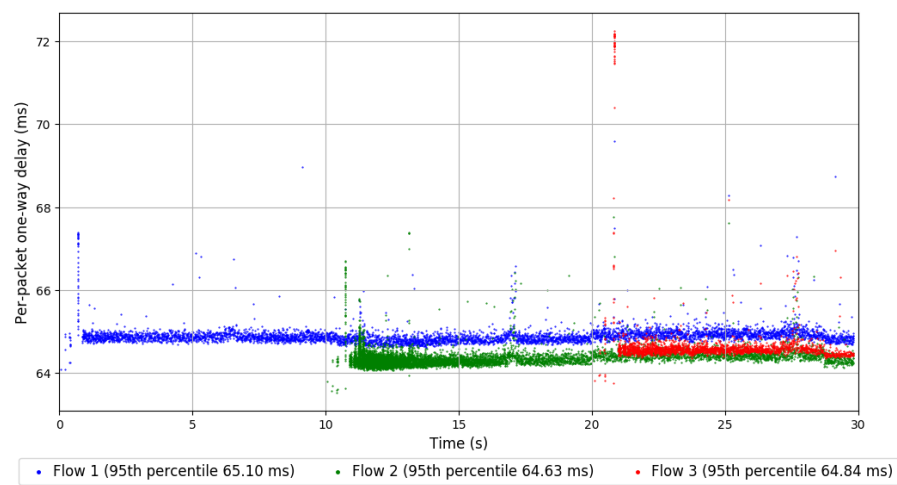
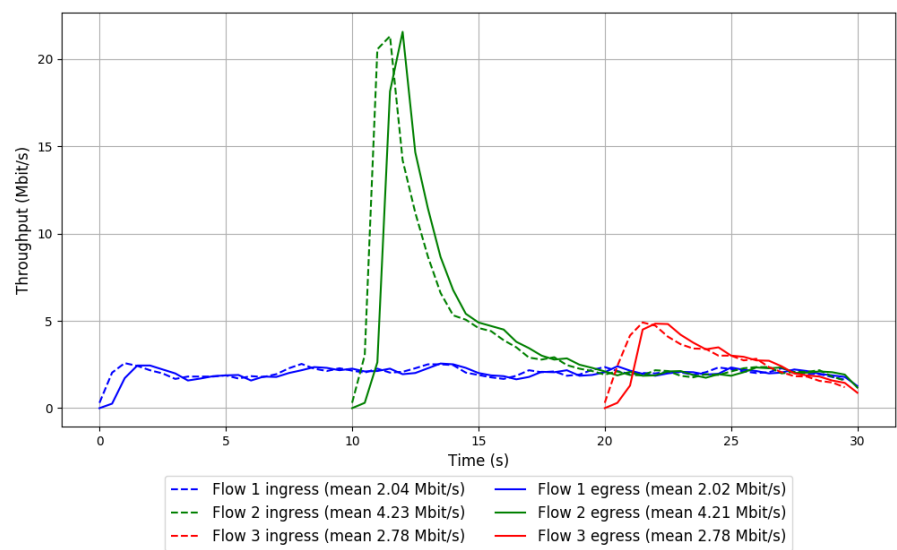
-- Flow 3:

Average throughput: 2.78 Mbit/s

95th percentile per-packet one-way delay: 64.839 ms

Loss rate: 1.81%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-07-18 12:58:55

End at: 2018-07-18 12:59:25

Local clock offset: 7.367 ms

Remote clock offset: 1.16 ms

Below is generated by plot.py at 2018-07-18 14:21:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.90 Mbit/s

95th percentile per-packet one-way delay: 65.194 ms

Loss rate: 2.45%

-- Flow 1:

Average throughput: 2.89 Mbit/s

95th percentile per-packet one-way delay: 64.488 ms

Loss rate: 1.07%

-- Flow 2:

Average throughput: 3.38 Mbit/s

95th percentile per-packet one-way delay: 64.902 ms

Loss rate: 1.34%

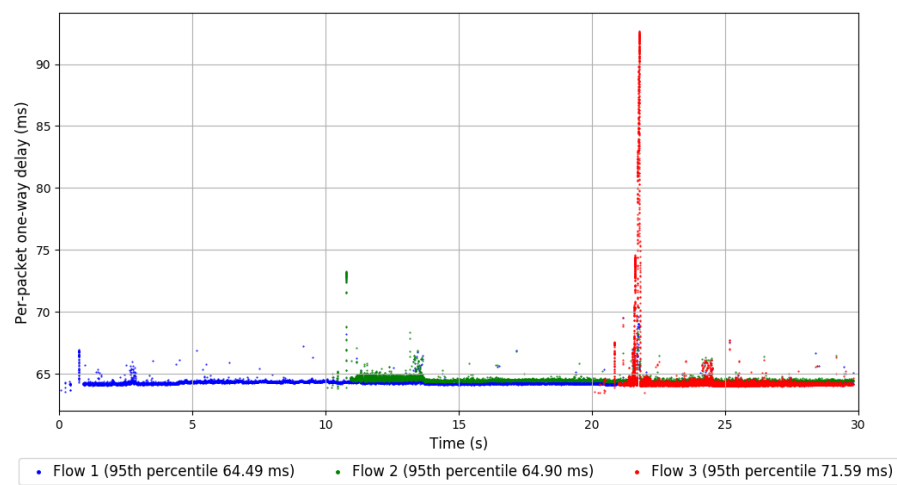
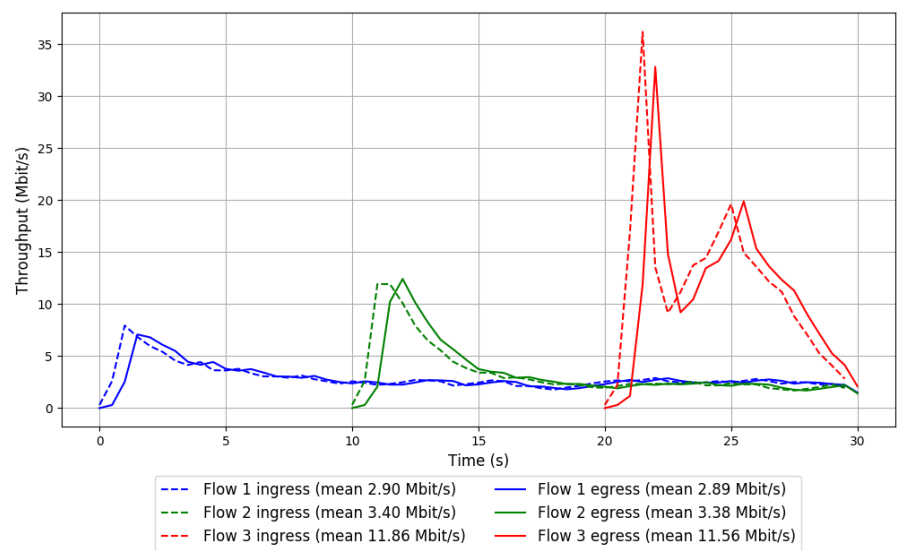
-- Flow 3:

Average throughput: 11.56 Mbit/s

95th percentile per-packet one-way delay: 71.586 ms

Loss rate: 4.12%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-07-18 13:29:31

End at: 2018-07-18 13:30:01

Local clock offset: -1.392 ms

Remote clock offset: 0.942 ms

Below is generated by plot.py at 2018-07-18 14:21:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.47 Mbit/s

95th percentile per-packet one-way delay: 64.534 ms

Loss rate: 1.60%

-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 64.530 ms

Loss rate: 1.43%

-- Flow 2:

Average throughput: 4.05 Mbit/s

95th percentile per-packet one-way delay: 64.463 ms

Loss rate: 1.45%

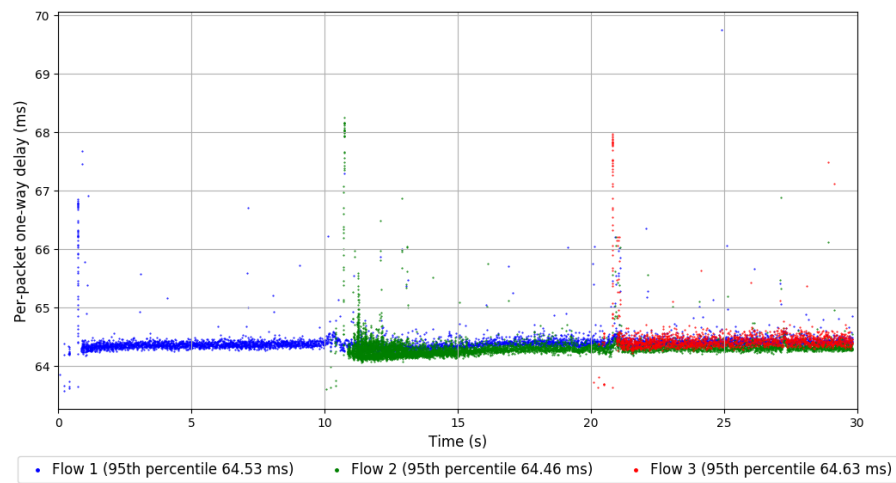
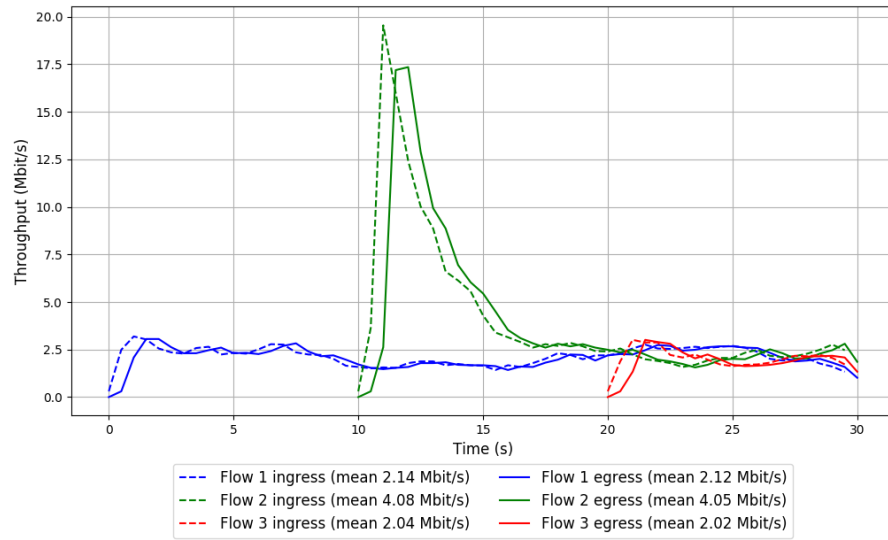
-- Flow 3:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 64.629 ms

Loss rate: 2.75%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-07-18 14:00:57

End at: 2018-07-18 14:01:27

Local clock offset: -1.924 ms

Remote clock offset: 0.47 ms

Below is generated by plot.py at 2018-07-18 14:21:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.64 Mbit/s

95th percentile per-packet one-way delay: 65.102 ms

Loss rate: 1.80%

-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 65.166 ms

Loss rate: 1.41%

-- Flow 2:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 64.788 ms

Loss rate: 2.15%

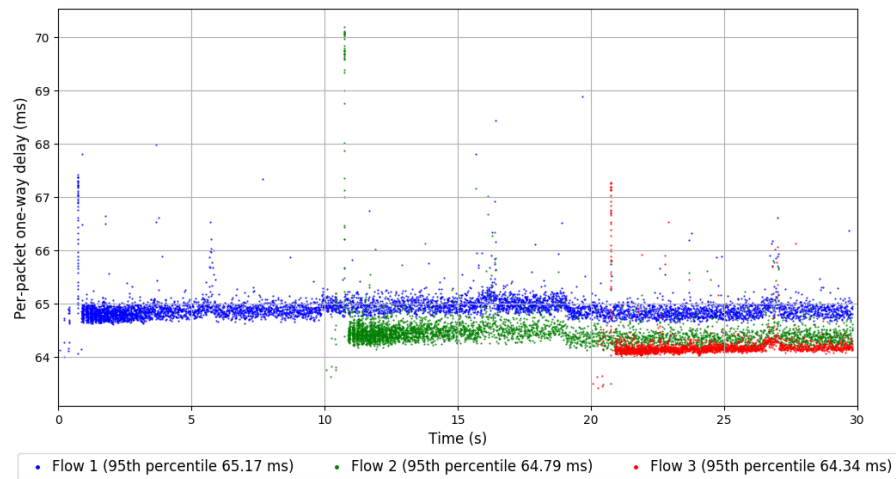
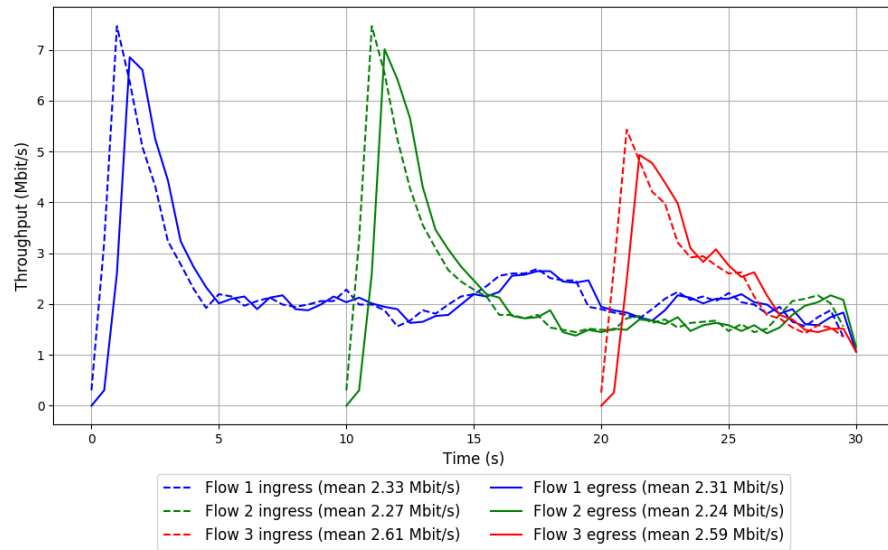
-- Flow 3:

Average throughput: 2.59 Mbit/s

95th percentile per-packet one-way delay: 64.345 ms

Loss rate: 2.24%

Run 10: Report of QUIC Cubic — Data Link



Run 1: Statistics of SReAM

Start at: 2018-07-18 09:26:06

End at: 2018-07-18 09:26:36

Local clock offset: 7.44 ms

Remote clock offset: 0.795 ms

Below is generated by plot.py at 2018-07-18 14:21:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 64.733 ms

Loss rate: 1.12%

-- Flow 1:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 64.264 ms

Loss rate: 0.85%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 64.780 ms

Loss rate: 0.82%

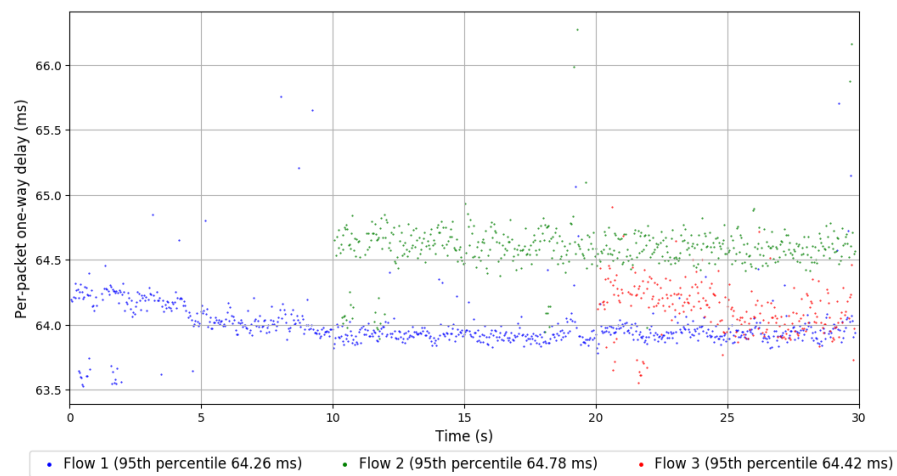
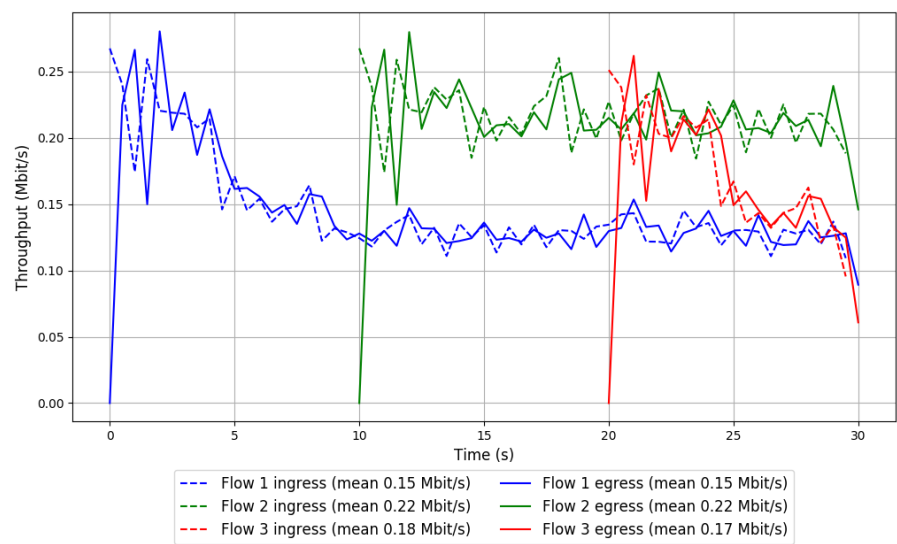
-- Flow 3:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 64.423 ms

Loss rate: 2.58%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SReAM

Start at: 2018-07-18 09:54:34

End at: 2018-07-18 09:55:04

Local clock offset: 1.223 ms

Remote clock offset: 1.527 ms

Below is generated by plot.py at 2018-07-18 14:21:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 64.972 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 64.817 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 64.768 ms

Loss rate: 0.82%

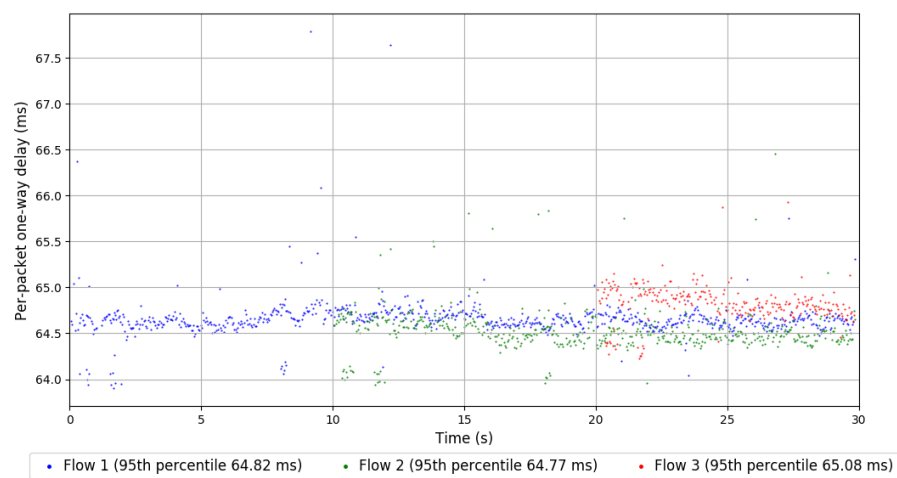
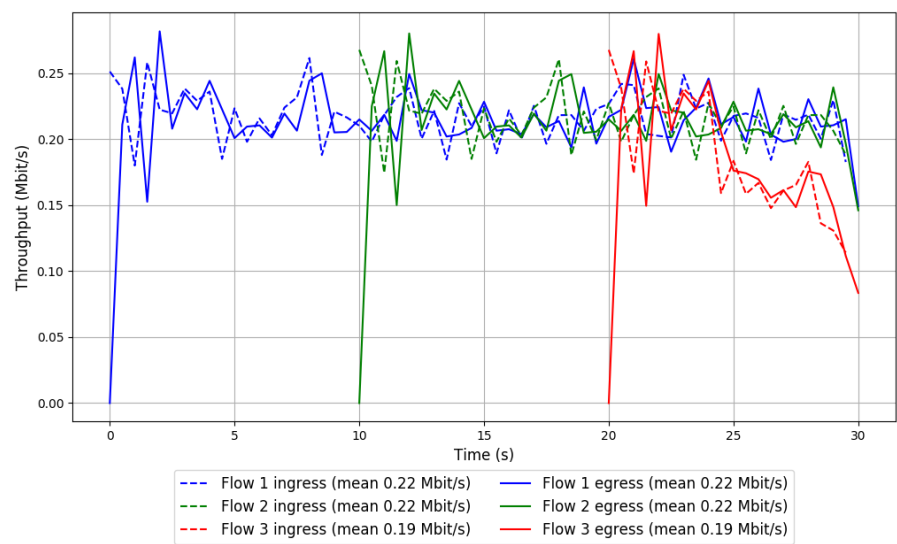
-- Flow 3:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 65.083 ms

Loss rate: 2.08%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-07-18 10:23:08

End at: 2018-07-18 10:23:38

Local clock offset: -0.026 ms

Remote clock offset: 1.892 ms

Below is generated by plot.py at 2018-07-18 14:21:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 64.488 ms

Loss rate: 1.05%

-- Flow 1:

Average throughput: 0.18 Mbit/s

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

Loss rate: 0.67%

-- Flow 2:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 64.072 ms

Loss rate: 1.27%

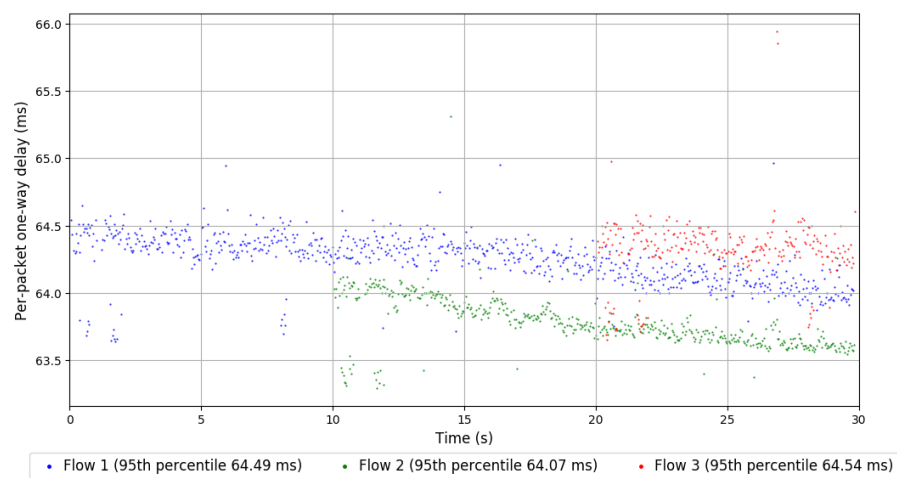
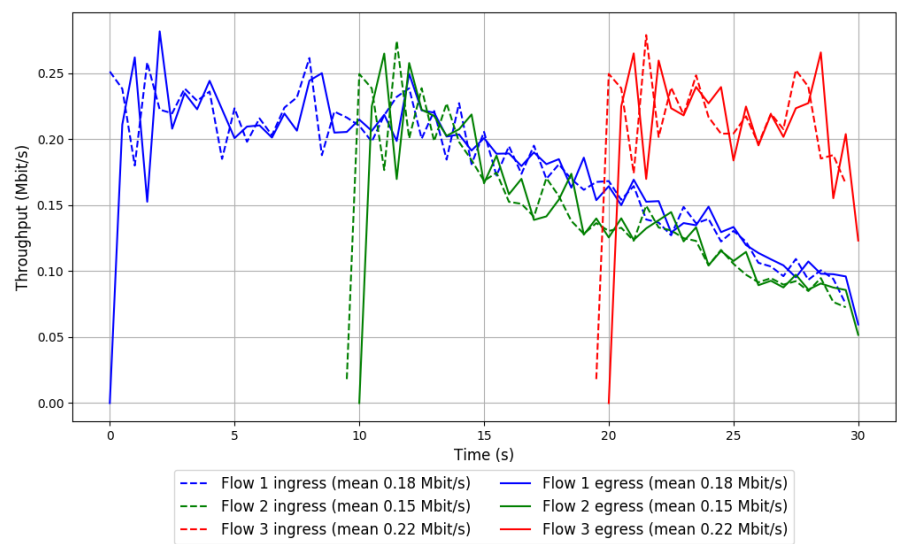
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 64.537 ms

Loss rate: 1.70%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-07-18 10:54:48

End at: 2018-07-18 10:55:18

Local clock offset: 2.907 ms

Remote clock offset: 1.98 ms

Below is generated by plot.py at 2018-07-18 14:21:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 64.121 ms

Loss rate: 1.09%

-- Flow 1:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 64.165 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 0.16 Mbit/s

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

Loss rate: 1.44%

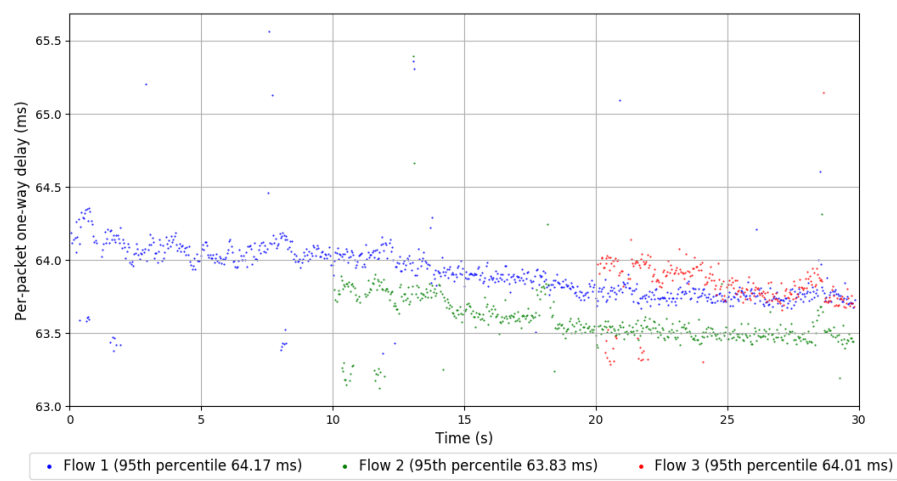
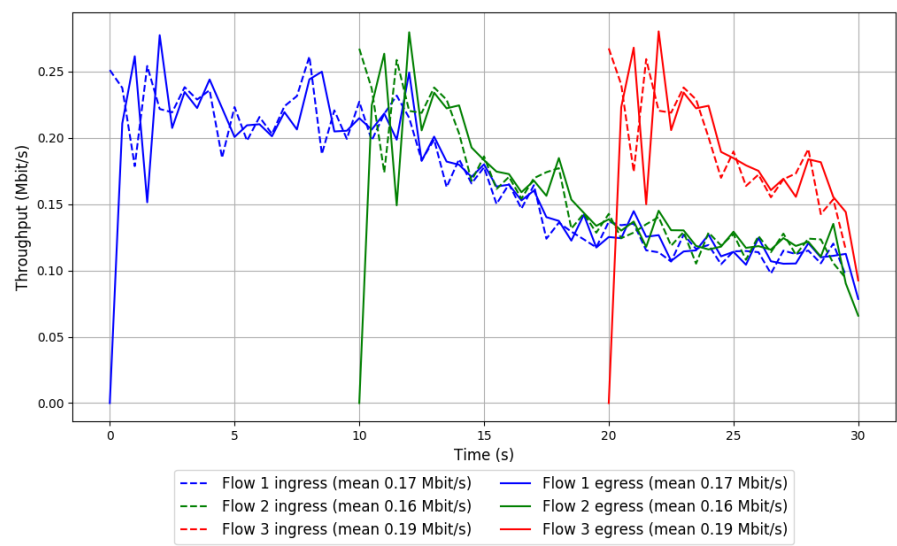
-- Flow 3:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 64.010 ms

Loss rate: 1.70%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-07-18 11:27:03

End at: 2018-07-18 11:27:33

Local clock offset: 8.629 ms

Remote clock offset: 1.773 ms

Below is generated by plot.py at 2018-07-18 14:21:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 64.306 ms

Loss rate: 1.31%

-- Flow 1:

Average throughput: 0.12 Mbit/s

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

Loss rate: 1.20%

-- Flow 2:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 63.948 ms

Loss rate: 1.25%

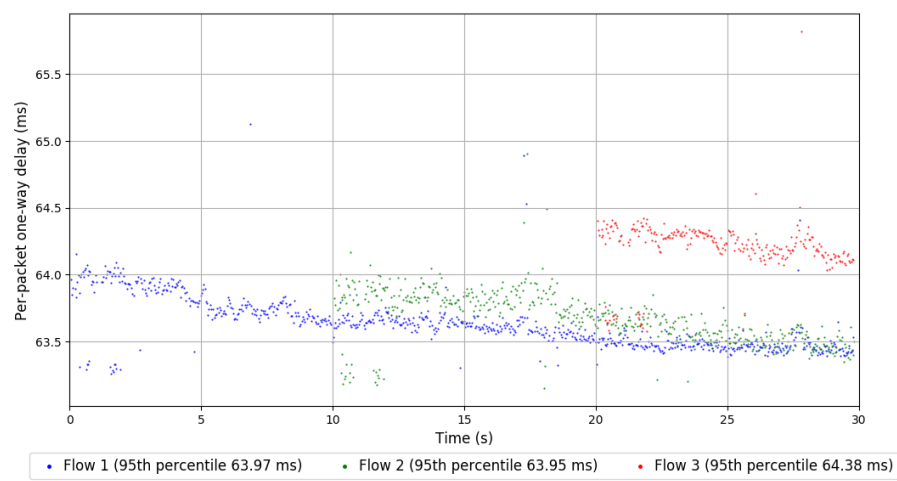
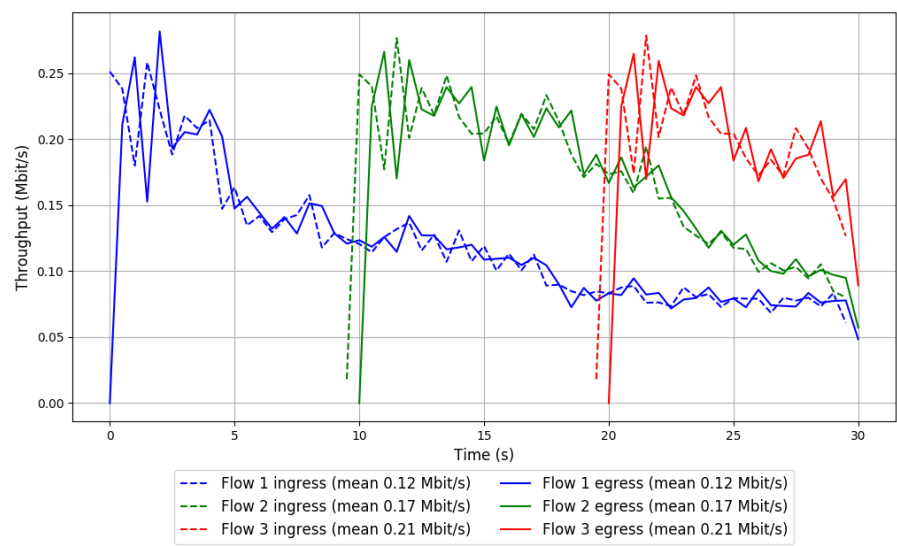
-- Flow 3:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 64.382 ms

Loss rate: 1.62%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-07-18 11:58:08

End at: 2018-07-18 11:58:38

Local clock offset: 4.35 ms

Remote clock offset: 1.502 ms

Below is generated by plot.py at 2018-07-18 14:21:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 64.719 ms

Loss rate: 1.44%

-- Flow 1:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 64.794 ms

Loss rate: 0.95%

-- Flow 2:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 64.513 ms

Loss rate: 1.15%

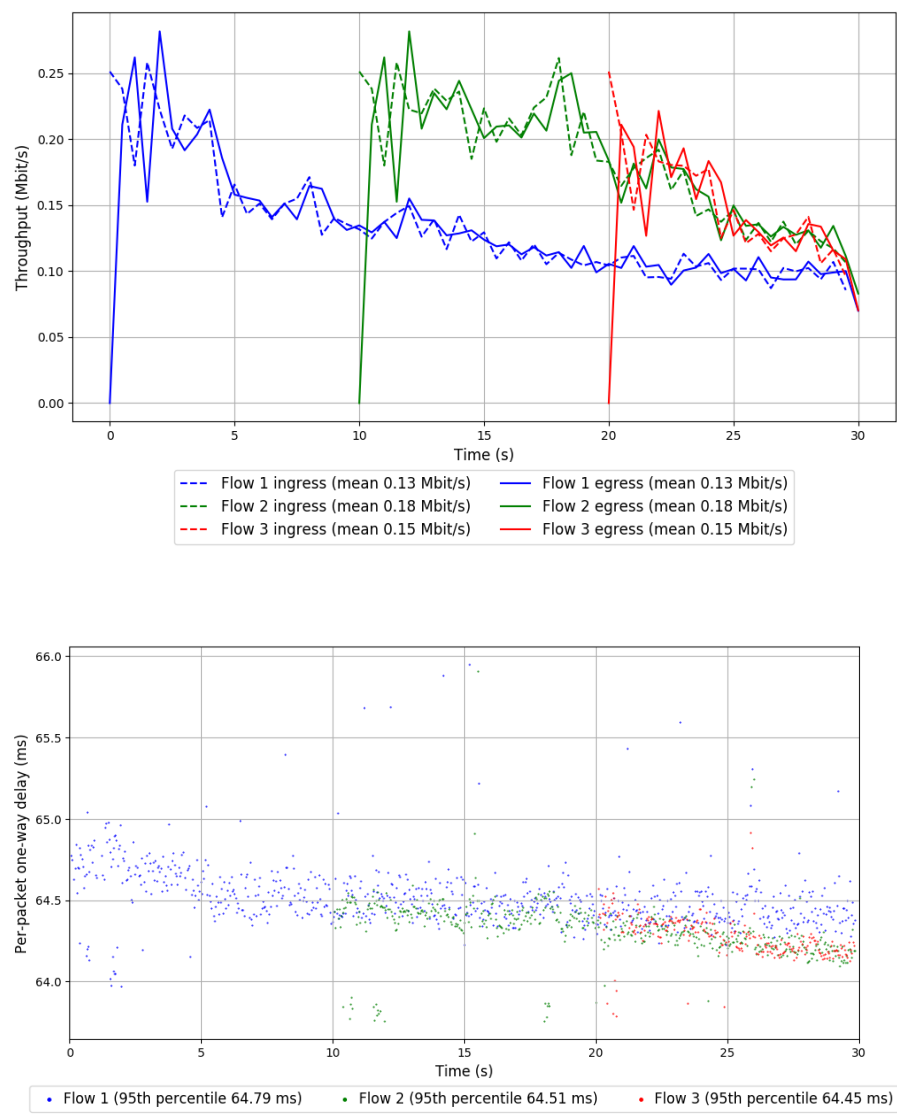
-- Flow 3:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 64.447 ms

Loss rate: 3.45%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-07-18 12:30:25

End at: 2018-07-18 12:30:55

Local clock offset: 5.866 ms

Remote clock offset: 1.385 ms

Below is generated by plot.py at 2018-07-18 14:21:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 64.504 ms

Loss rate: 1.26%

-- Flow 1:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 64.411 ms

Loss rate: 0.95%

-- Flow 2:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 64.559 ms

Loss rate: 1.02%

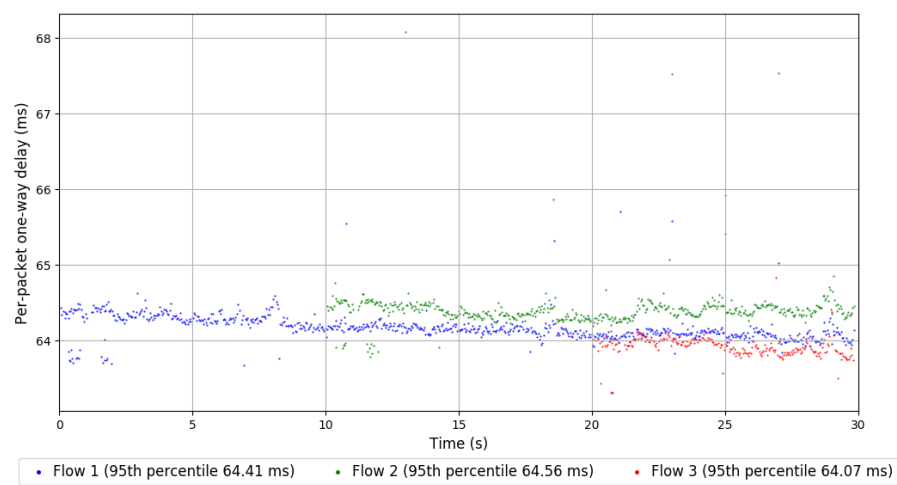
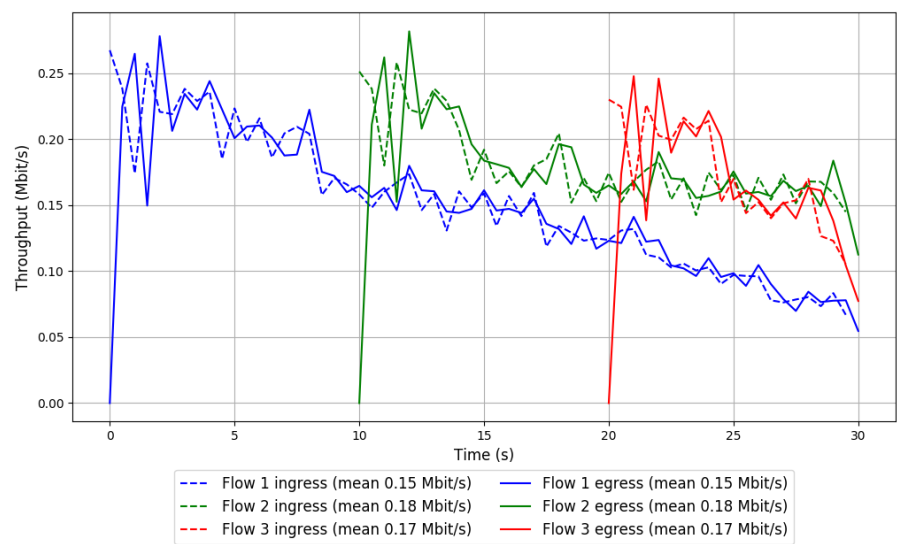
-- Flow 3:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 64.066 ms

Loss rate: 2.57%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-07-18 13:02:48

End at: 2018-07-18 13:03:19

Local clock offset: 7.461 ms

Remote clock offset: 1.144 ms

Below is generated by plot.py at 2018-07-18 14:21:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 64.467 ms

Loss rate: 1.22%

-- Flow 1:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 64.489 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 63.953 ms

Loss rate: 1.06%

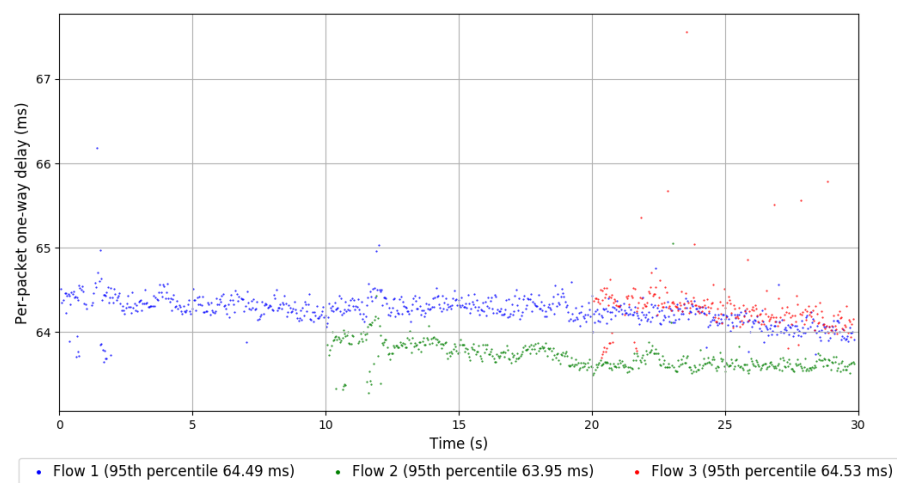
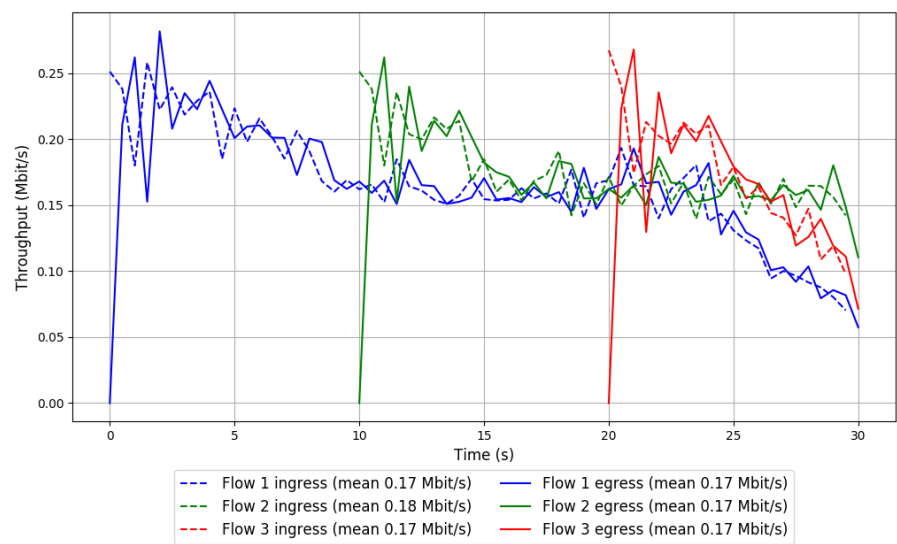
-- Flow 3:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 64.530 ms

Loss rate: 2.48%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-07-18 13:33:07

End at: 2018-07-18 13:33:37

Local clock offset: -1.843 ms

Remote clock offset: 0.872 ms

Below is generated by plot.py at 2018-07-18 14:21:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 64.587 ms

Loss rate: 1.20%

-- Flow 1:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 64.406 ms

Loss rate: 0.75%

-- Flow 2:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 64.412 ms

Loss rate: 1.23%

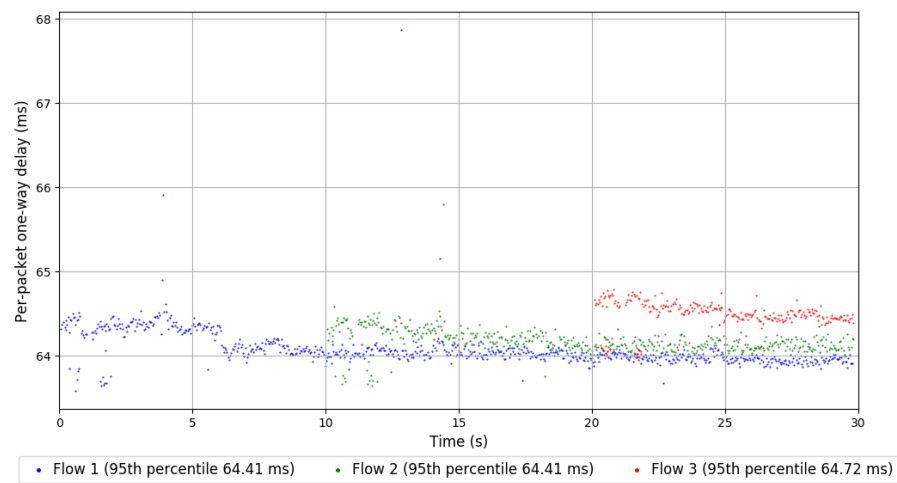
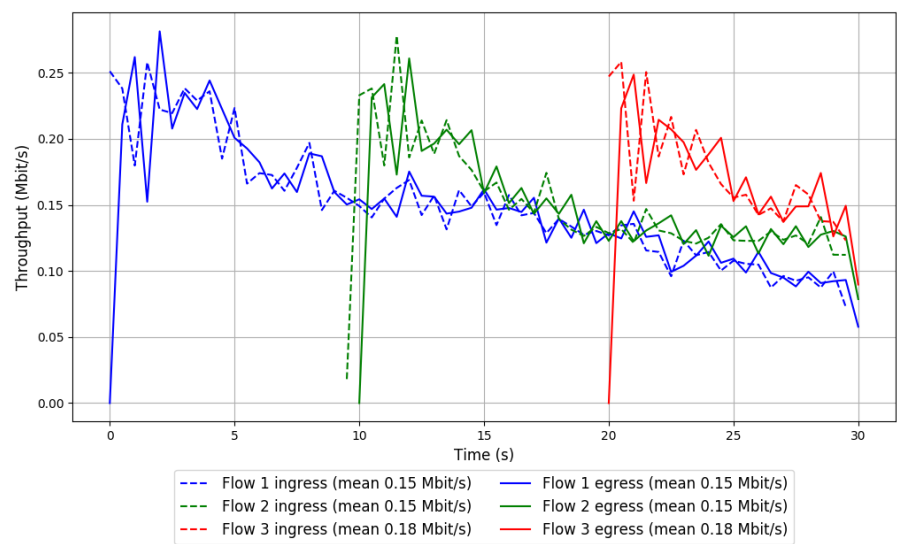
-- Flow 3:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 64.717 ms

Loss rate: 2.32%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-07-18 14:04:51

End at: 2018-07-18 14:05:21

Local clock offset: -1.909 ms

Remote clock offset: 0.43 ms

Below is generated by plot.py at 2018-07-18 14:21:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 64.804 ms

Loss rate: 1.53%

-- Flow 1:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 64.431 ms

Loss rate: 1.00%

-- Flow 2:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 64.637 ms

Loss rate: 2.34%

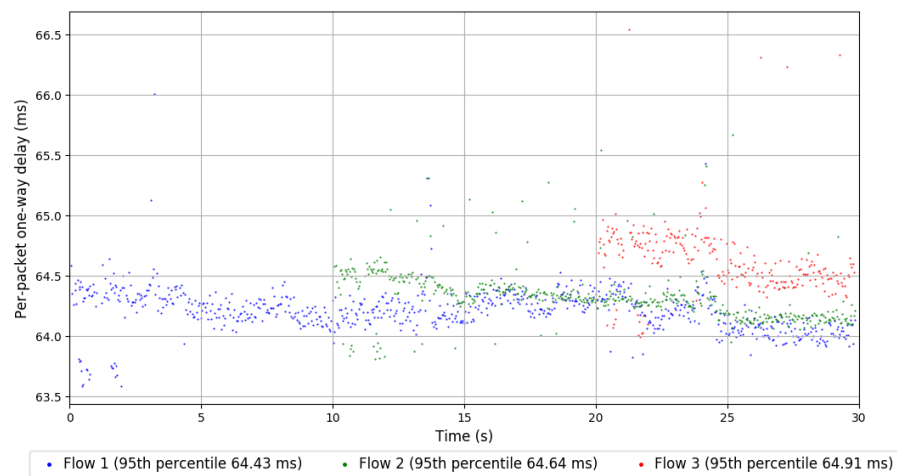
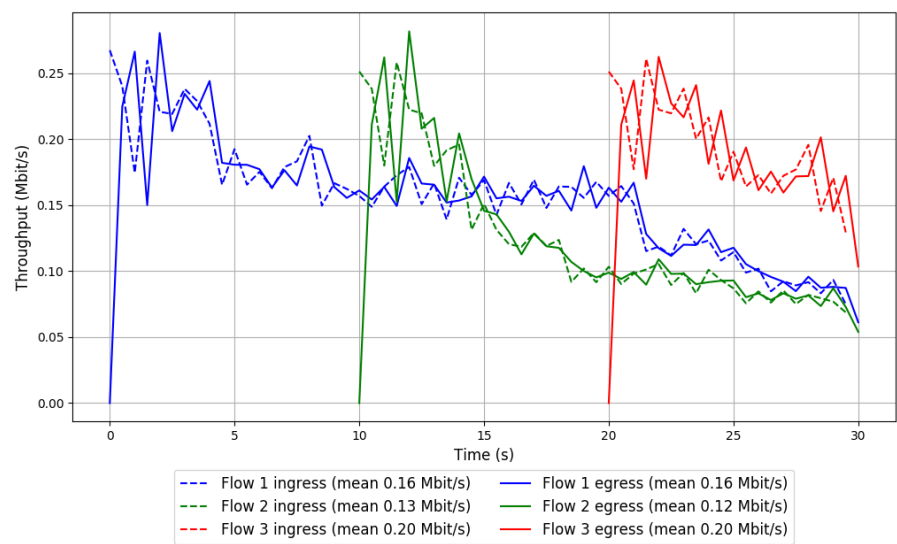
-- Flow 3:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 64.910 ms

Loss rate: 1.78%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-07-18 09:07:34

End at: 2018-07-18 09:08:04

Local clock offset: 5.684 ms

Remote clock offset: 0.125 ms

Below is generated by plot.py at 2018-07-18 14:21:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.03 Mbit/s

95th percentile per-packet one-way delay: 66.839 ms

Loss rate: 2.35%

-- Flow 1:

Average throughput: 0.27 Mbit/s

95th percentile per-packet one-way delay: 65.298 ms

Loss rate: 1.18%

-- Flow 2:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 65.344 ms

Loss rate: 0.96%

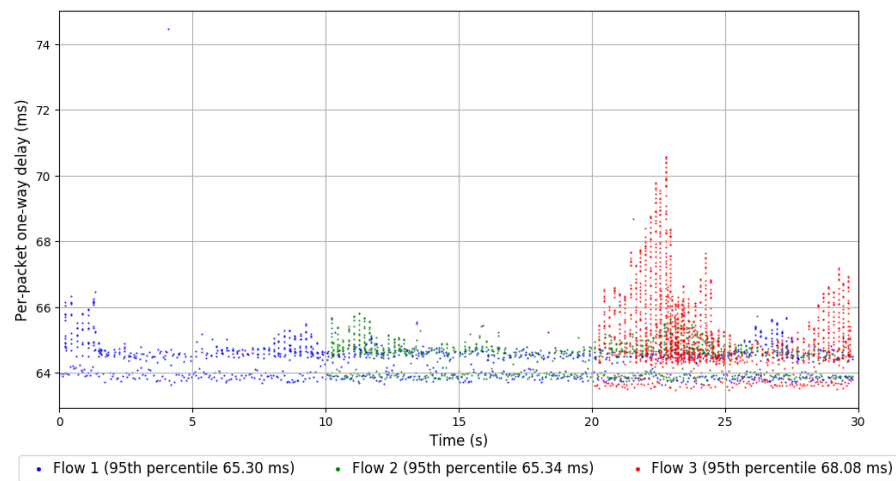
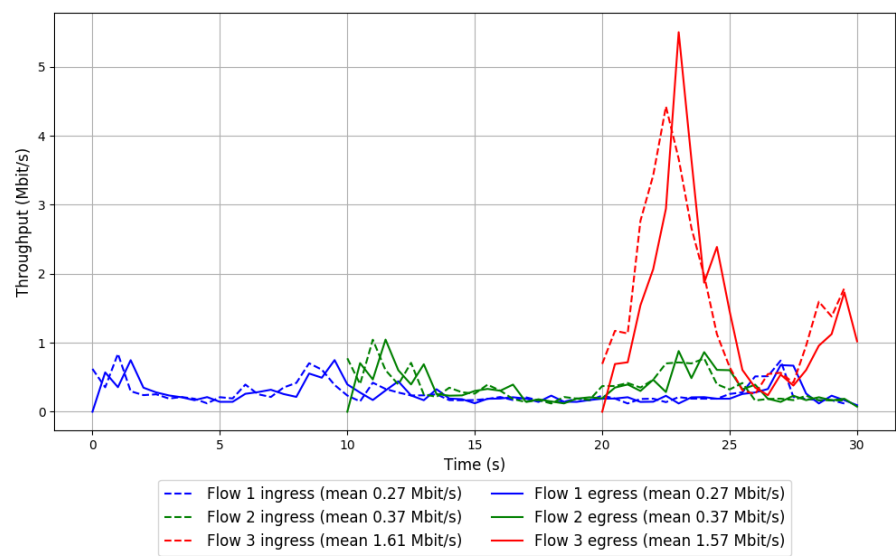
-- Flow 3:

Average throughput: 1.57 Mbit/s

95th percentile per-packet one-way delay: 68.082 ms

Loss rate: 3.59%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-07-18 09:36:28

End at: 2018-07-18 09:36:58

Local clock offset: 7.848 ms

Remote clock offset: 1.016 ms

Below is generated by plot.py at 2018-07-18 14:21:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.03 Mbit/s

95th percentile per-packet one-way delay: 67.568 ms

Loss rate: 0.94%

-- Flow 1:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 65.187 ms

Loss rate: 1.10%

-- Flow 2:

Average throughput: 0.84 Mbit/s

95th percentile per-packet one-way delay: 69.284 ms

Loss rate: 0.65%

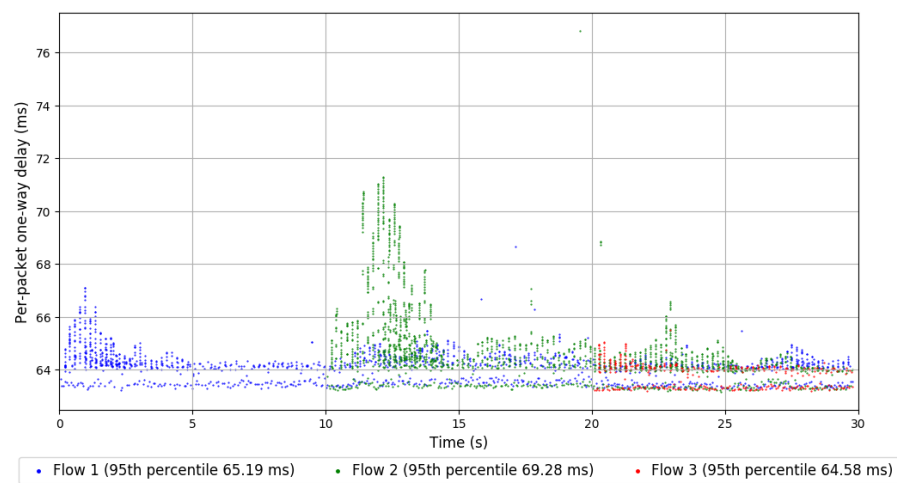
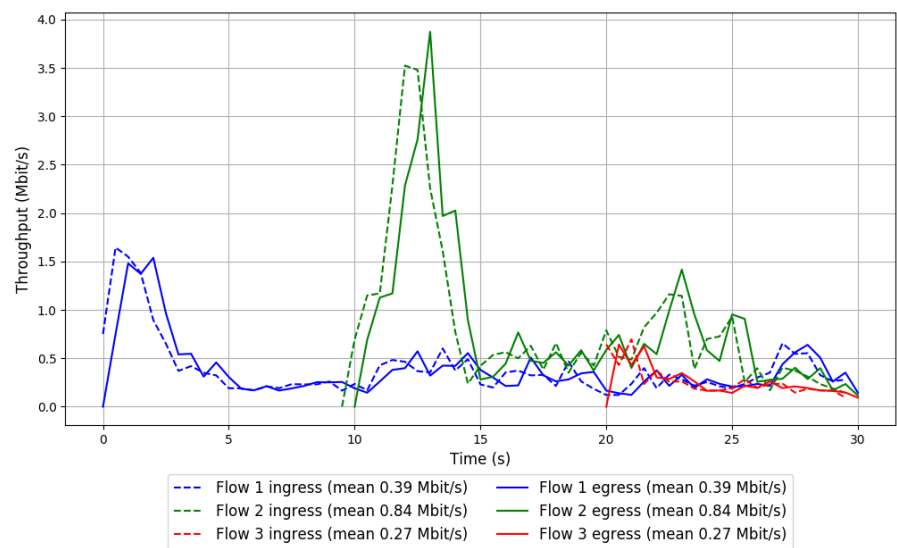
-- Flow 3:

Average throughput: 0.27 Mbit/s

95th percentile per-packet one-way delay: 64.581 ms

Loss rate: 2.14%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-07-18 10:04:29

End at: 2018-07-18 10:04:59

Local clock offset: -0.55 ms

Remote clock offset: 1.652 ms

Below is generated by plot.py at 2018-07-18 14:21:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.77 Mbit/s

95th percentile per-packet one-way delay: 66.207 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 65.791 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 66.207 ms

Loss rate: 1.21%

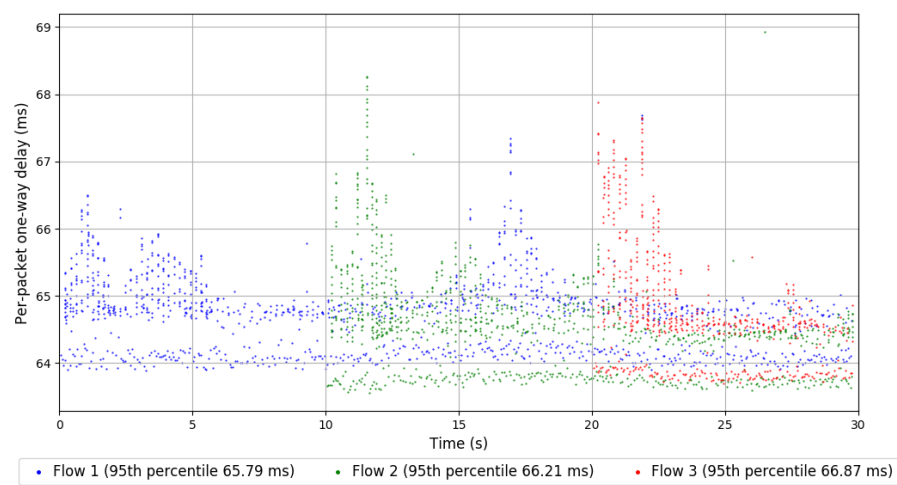
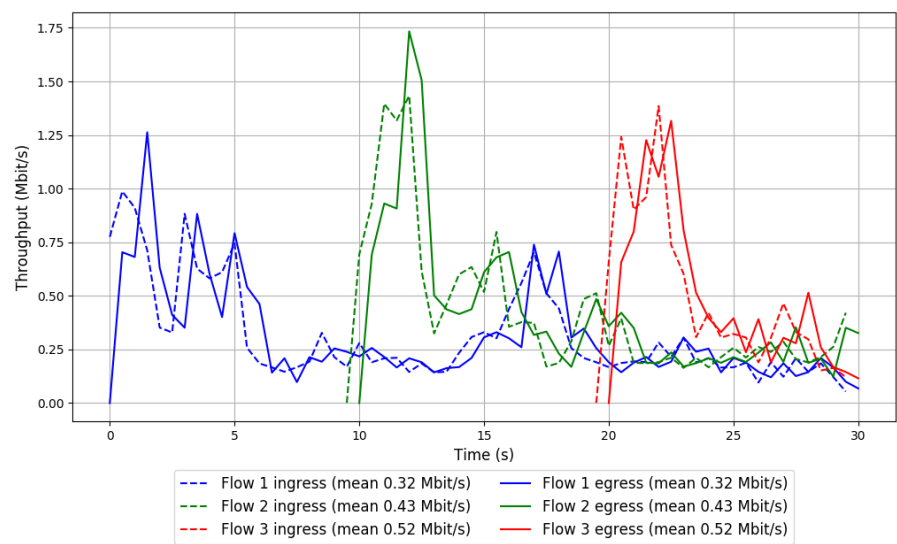
-- Flow 3:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 66.867 ms

Loss rate: 0.73%

Run 3: Report of Sprout — Data Link

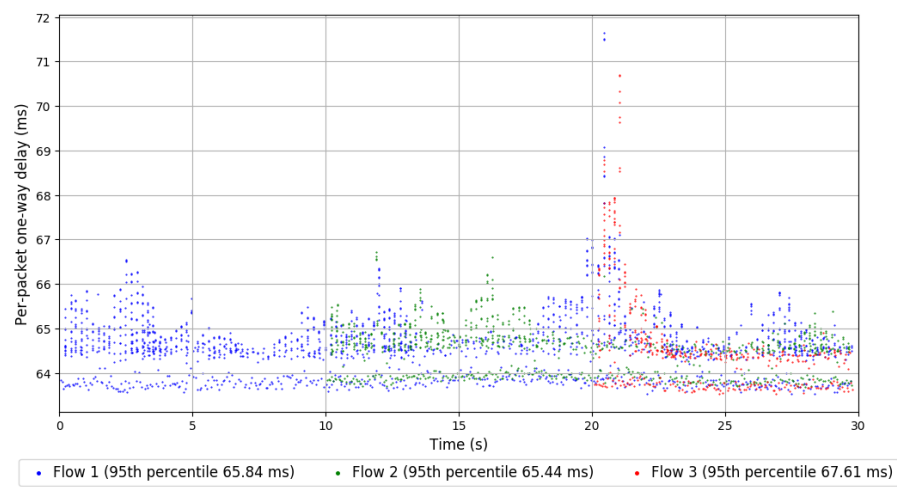
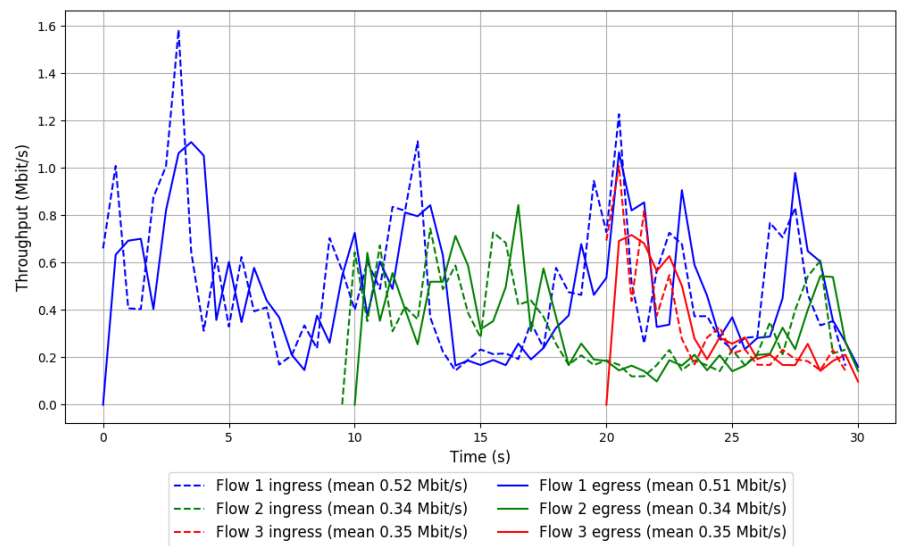


Run 4: Statistics of Sprout

Start at: 2018-07-18 10:34:27
End at: 2018-07-18 10:34:57
Local clock offset: 0.576 ms
Remote clock offset: 1.943 ms

```
# Below is generated by plot.py at 2018-07-18 14:21:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.85 Mbit/s
95th percentile per-packet one-way delay: 65.931 ms
Loss rate: 1.80%
-- Flow 1:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 65.839 ms
Loss rate: 1.77%
-- Flow 2:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 65.443 ms
Loss rate: 1.74%
-- Flow 3:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 67.615 ms
Loss rate: 2.03%
```

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-07-18 11:05:54

End at: 2018-07-18 11:06:24

Local clock offset: 3.761 ms

Remote clock offset: 1.982 ms

Below is generated by plot.py at 2018-07-18 14:21:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.80 Mbit/s

95th percentile per-packet one-way delay: 66.831 ms

Loss rate: 1.24%

-- Flow 1:

Average throughput: 0.78 Mbit/s

95th percentile per-packet one-way delay: 66.635 ms

Loss rate: 1.26%

-- Flow 2:

Average throughput: 1.14 Mbit/s

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

Loss rate: 1.14%

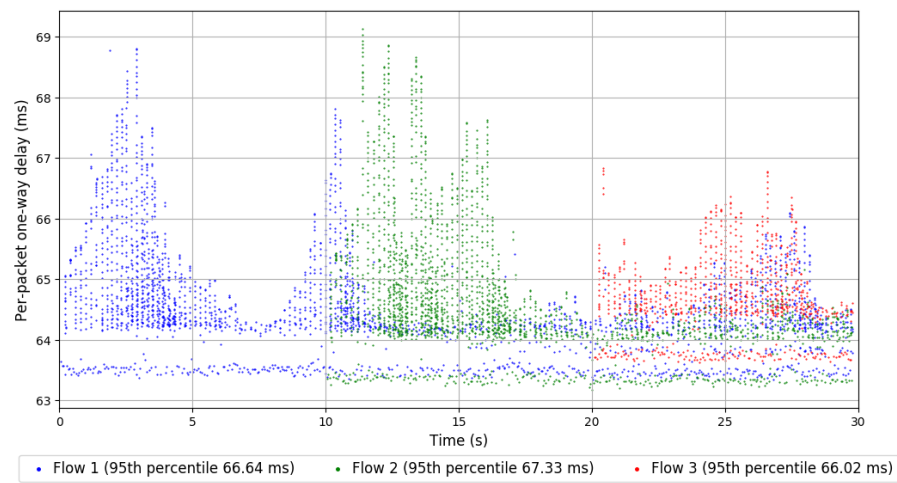
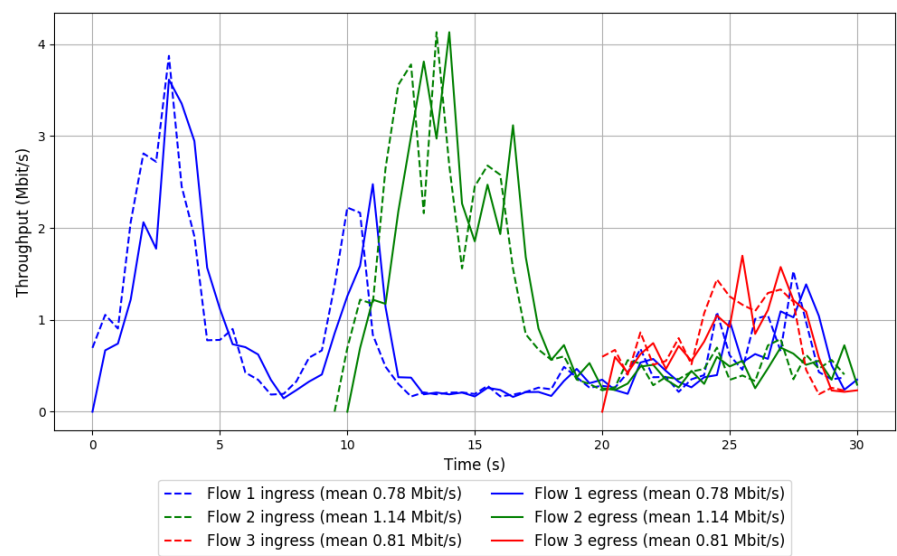
-- Flow 3:

Average throughput: 0.81 Mbit/s

95th percentile per-packet one-way delay: 66.020 ms

Loss rate: 1.46%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-07-18 11:38:15

End at: 2018-07-18 11:38:45

Local clock offset: 9.756 ms

Remote clock offset: 1.609 ms

Below is generated by plot.py at 2018-07-18 14:21:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.83 Mbit/s

95th percentile per-packet one-way delay: 66.147 ms

Loss rate: 1.36%

-- Flow 1:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 65.736 ms

Loss rate: 1.34%

-- Flow 2:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 65.208 ms

Loss rate: 1.86%

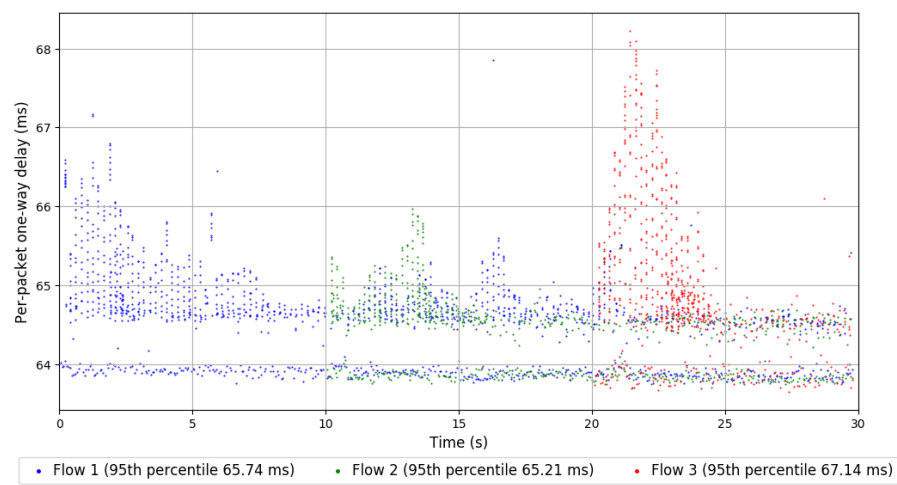
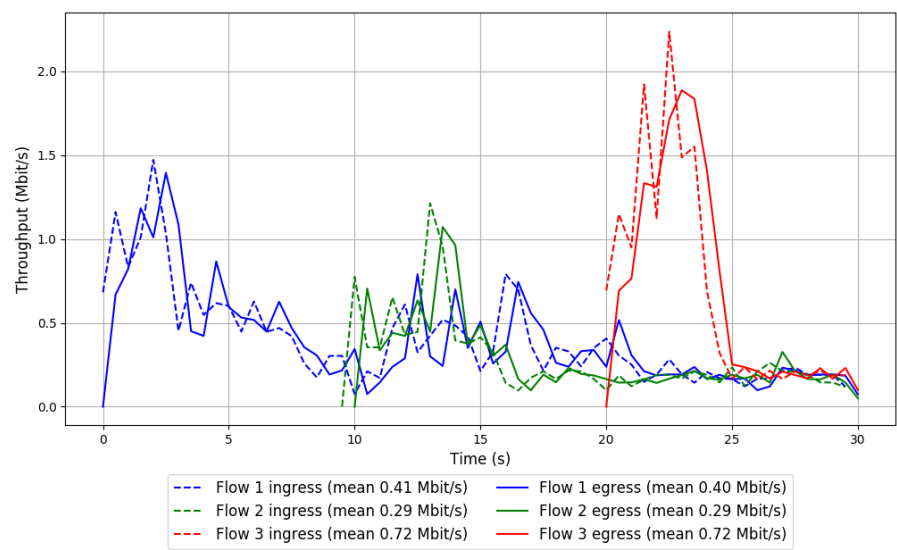
-- Flow 3:

Average throughput: 0.72 Mbit/s

95th percentile per-packet one-way delay: 67.142 ms

Loss rate: 0.98%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-07-18 12:08:52

End at: 2018-07-18 12:09:22

Local clock offset: 3.354 ms

Remote clock offset: 1.395 ms

Below is generated by plot.py at 2018-07-18 14:21:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 64.877 ms

Loss rate: 2.29%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 64.626 ms

Loss rate: 1.69%

-- Flow 2:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 65.084 ms

Loss rate: 1.82%

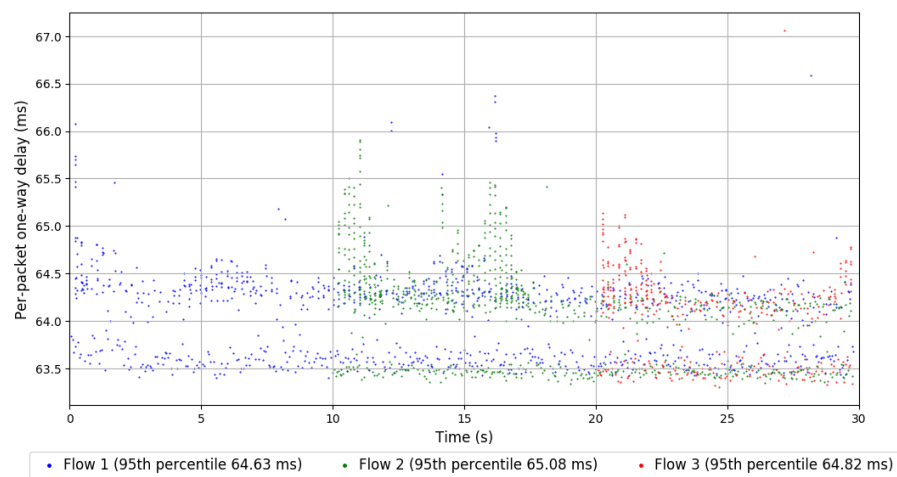
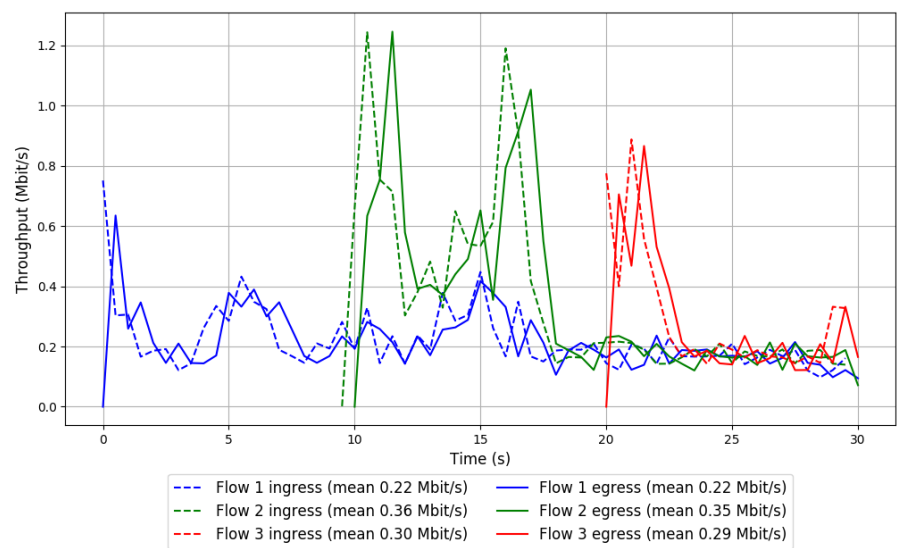
-- Flow 3:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 64.819 ms

Loss rate: 4.74%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-07-18 12:42:20

End at: 2018-07-18 12:42:50

Local clock offset: 6.377 ms

Remote clock offset: 1.239 ms

Below is generated by plot.py at 2018-07-18 14:21:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 67.161 ms

Loss rate: 2.42%

-- Flow 1:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 65.302 ms

Loss rate: 2.80%

-- Flow 2:

Average throughput: 0.94 Mbit/s

95th percentile per-packet one-way delay: 67.957 ms

Loss rate: 2.62%

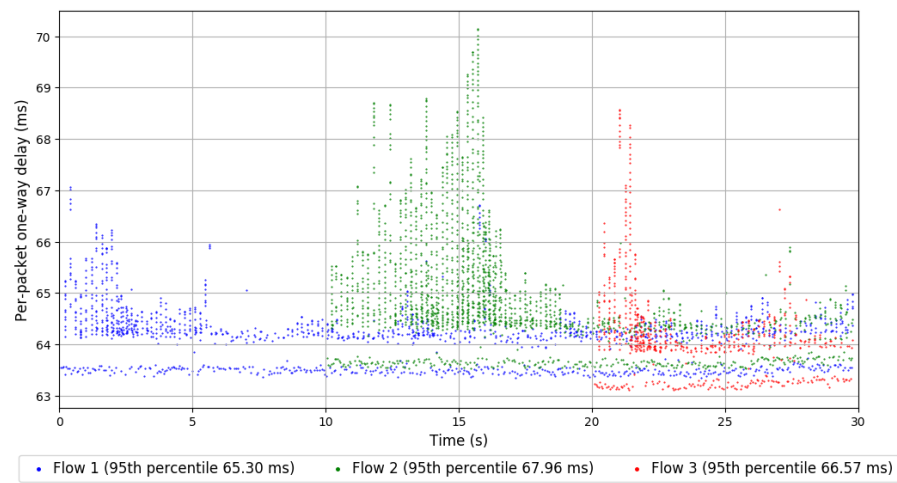
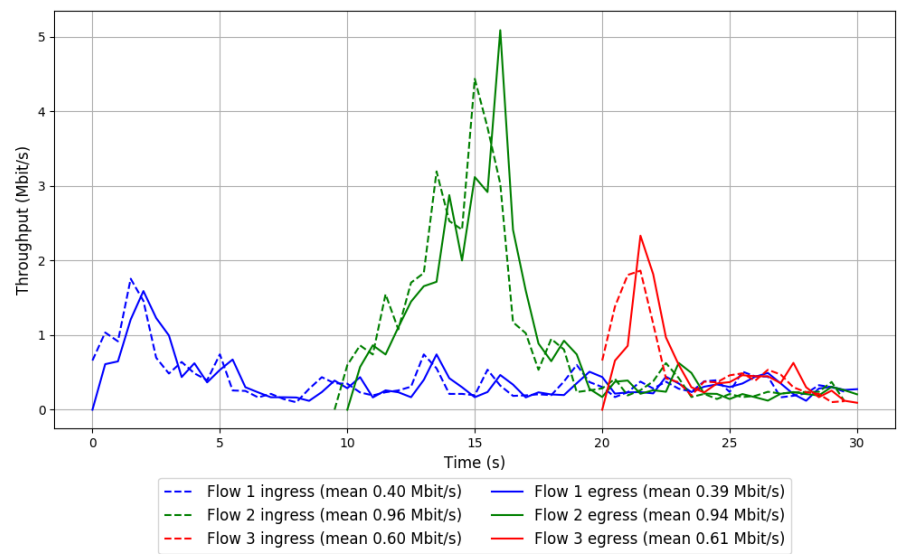
-- Flow 3:

Average throughput: 0.61 Mbit/s

95th percentile per-packet one-way delay: 66.574 ms

Loss rate: 1.02%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-07-18 13:13:26

End at: 2018-07-18 13:13:56

Local clock offset: 5.196 ms

Remote clock offset: 0.947 ms

Below is generated by plot.py at 2018-07-18 14:21:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.93 Mbit/s

95th percentile per-packet one-way delay: 67.082 ms

Loss rate: 1.11%

-- Flow 1:

Average throughput: 0.62 Mbit/s

95th percentile per-packet one-way delay: 67.309 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 65.838 ms

Loss rate: 0.99%

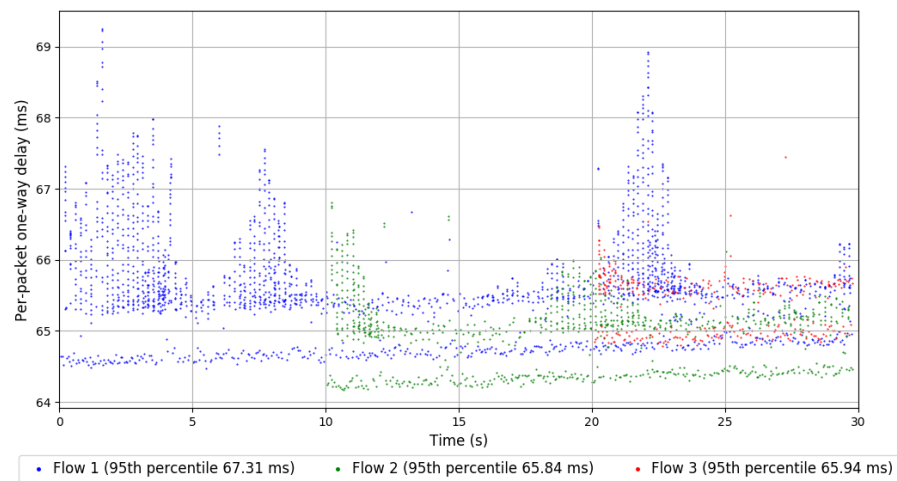
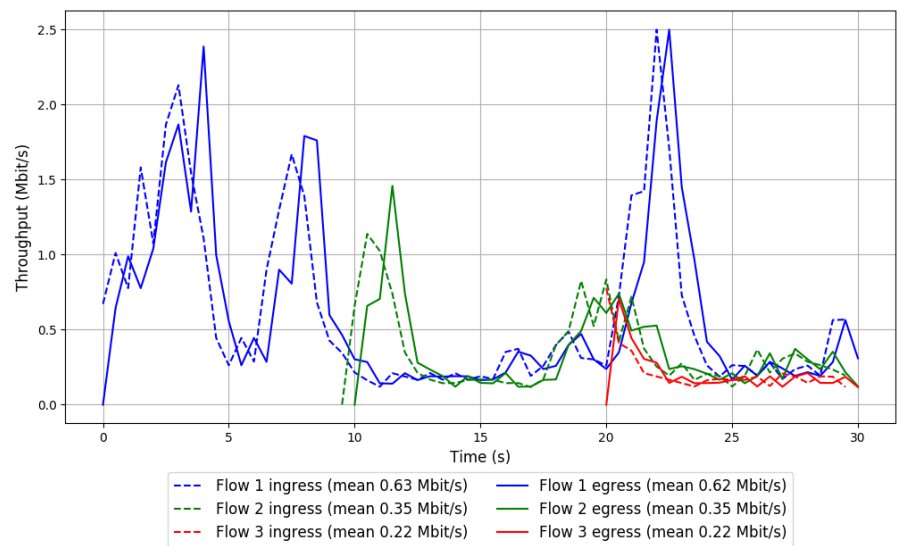
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 65.941 ms

Loss rate: 2.58%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-07-18 13:43:57

End at: 2018-07-18 13:44:27

Local clock offset: -2.582 ms

Remote clock offset: 0.691 ms

Below is generated by plot.py at 2018-07-18 14:21:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.91 Mbit/s

95th percentile per-packet one-way delay: 65.690 ms

Loss rate: 1.72%

-- Flow 1:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 66.140 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 65.322 ms

Loss rate: 2.88%

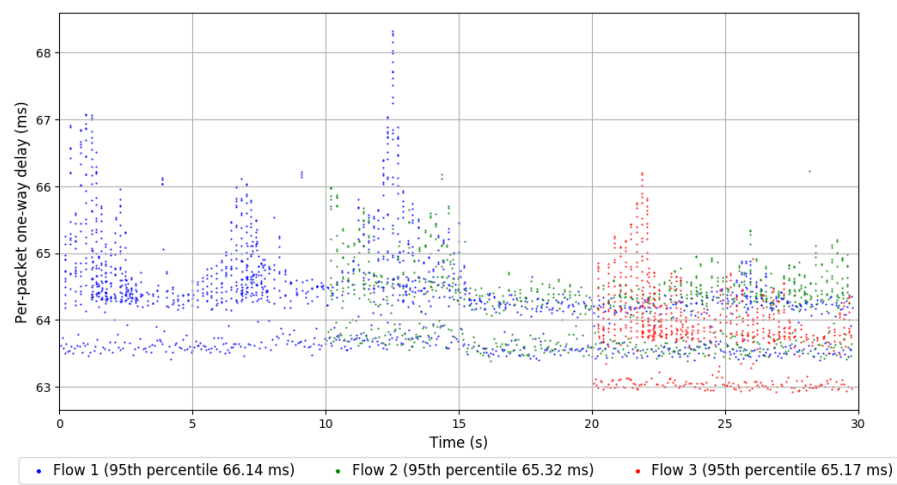
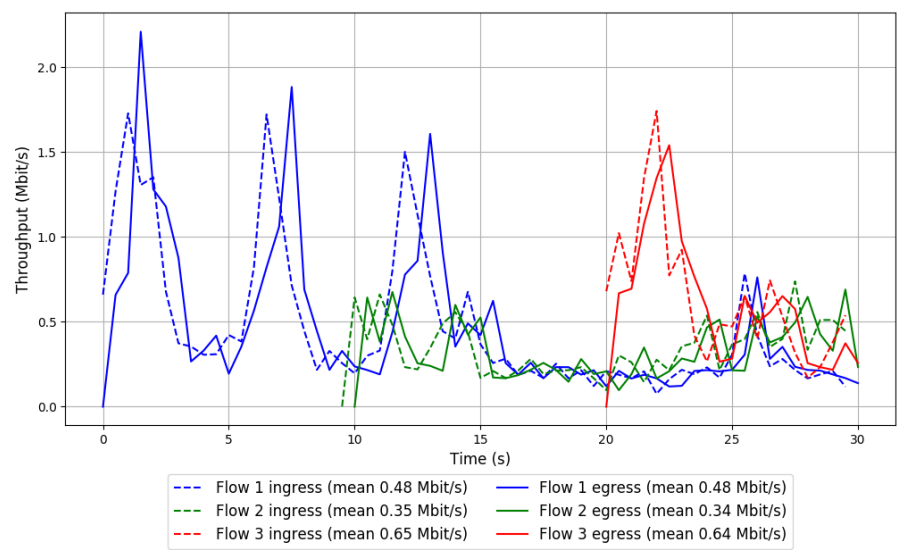
-- Flow 3:

Average throughput: 0.64 Mbit/s

95th percentile per-packet one-way delay: 65.170 ms

Loss rate: 2.94%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2018-07-18 09:31:23

End at: 2018-07-18 09:31:53

Local clock offset: 7.594 ms

Remote clock offset: 0.845 ms

Below is generated by plot.py at 2018-07-18 14:21:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.06 Mbit/s

95th percentile per-packet one-way delay: 82.533 ms

Loss rate: 2.87%

-- Flow 1:

Average throughput: 10.00 Mbit/s

95th percentile per-packet one-way delay: 78.384 ms

Loss rate: 2.87%

-- Flow 2:

Average throughput: 12.78 Mbit/s

95th percentile per-packet one-way delay: 77.609 ms

Loss rate: 2.02%

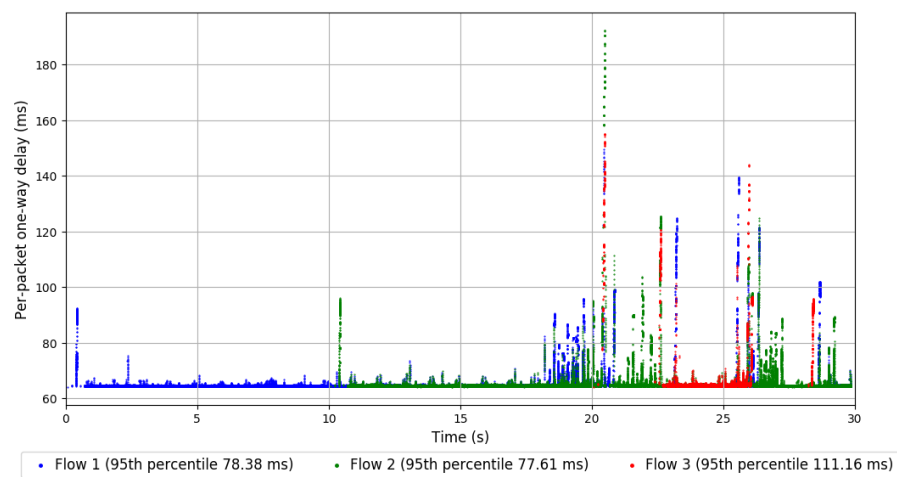
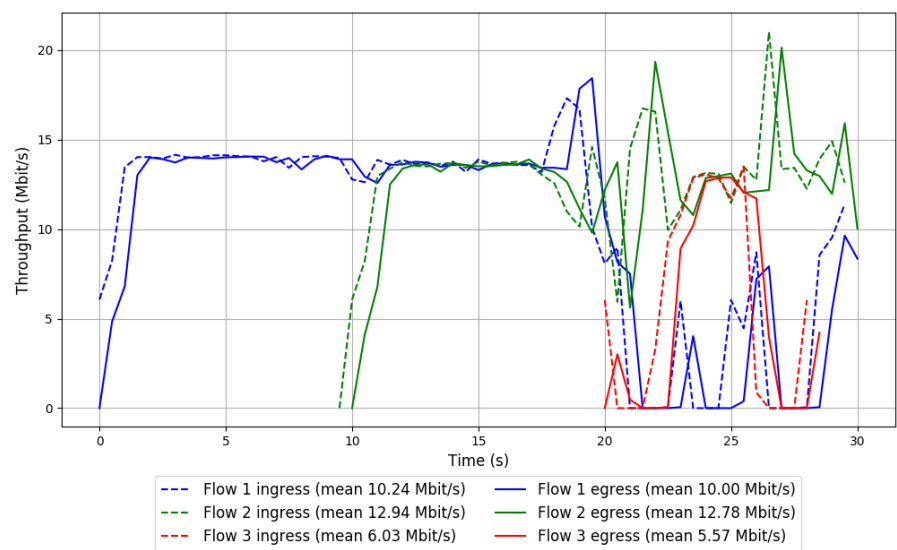
-- Flow 3:

Average throughput: 5.57 Mbit/s

95th percentile per-packet one-way delay: 111.162 ms

Loss rate: 7.27%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-07-18 09:59:36

End at: 2018-07-18 10:00:06

Local clock offset: 0.024 ms

Remote clock offset: 1.64 ms

Below is generated by plot.py at 2018-07-18 14:21:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.14 Mbit/s

95th percentile per-packet one-way delay: 87.134 ms

Loss rate: 3.74%

-- Flow 1:

Average throughput: 9.94 Mbit/s

95th percentile per-packet one-way delay: 78.701 ms

Loss rate: 2.40%

-- Flow 2:

Average throughput: 8.50 Mbit/s

95th percentile per-packet one-way delay: 92.189 ms

Loss rate: 5.86%

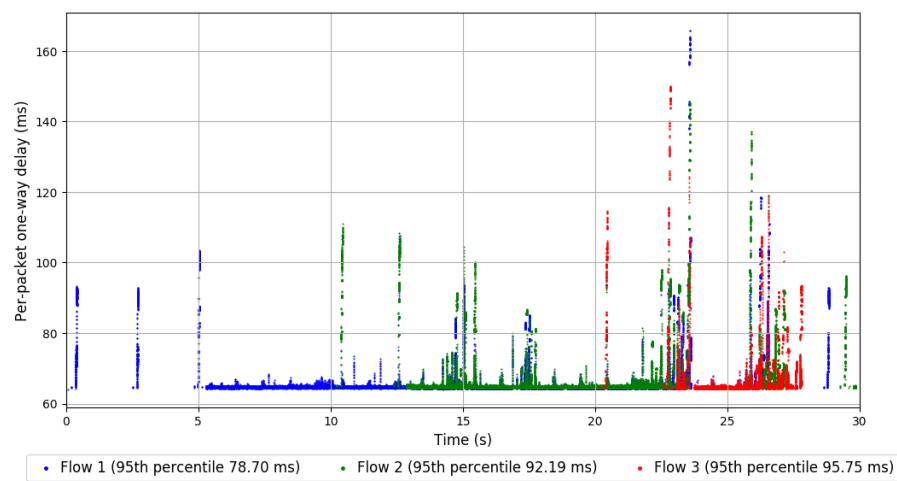
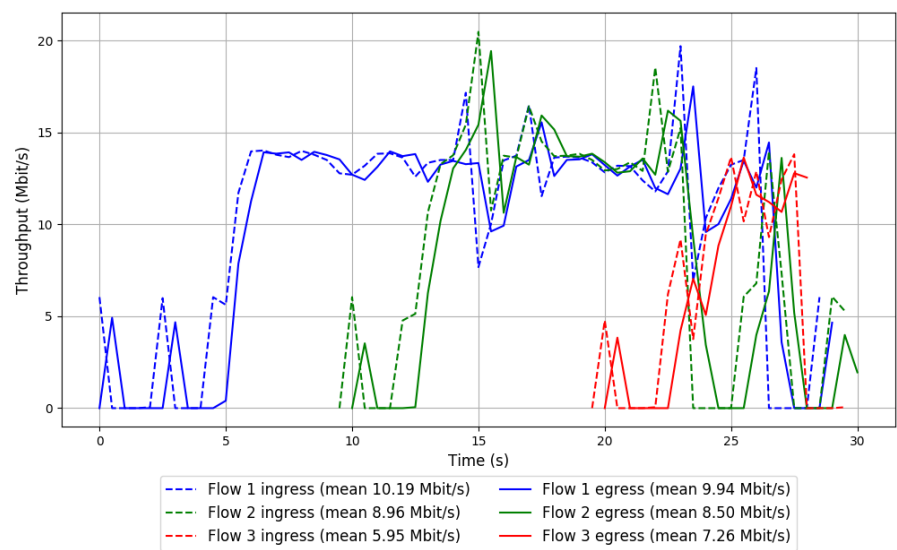
-- Flow 3:

Average throughput: 7.26 Mbit/s

95th percentile per-packet one-way delay: 95.746 ms

Loss rate: 3.99%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-07-18 10:29:12

End at: 2018-07-18 10:29:42

Local clock offset: 0.3 ms

Remote clock offset: 1.877 ms

Below is generated by plot.py at 2018-07-18 14:21:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.04 Mbit/s

95th percentile per-packet one-way delay: 86.131 ms

Loss rate: 3.68%

-- Flow 1:

Average throughput: 10.87 Mbit/s

95th percentile per-packet one-way delay: 75.619 ms

Loss rate: 2.33%

-- Flow 2:

Average throughput: 7.85 Mbit/s

95th percentile per-packet one-way delay: 89.245 ms

Loss rate: 4.76%

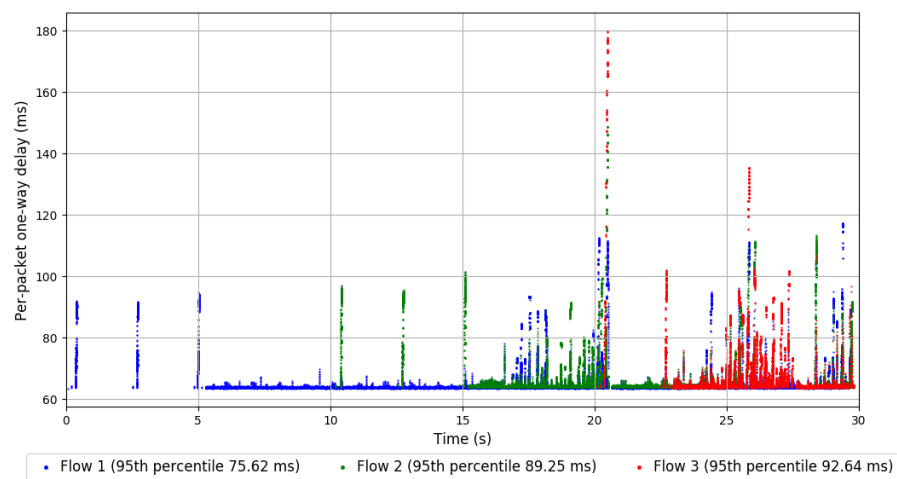
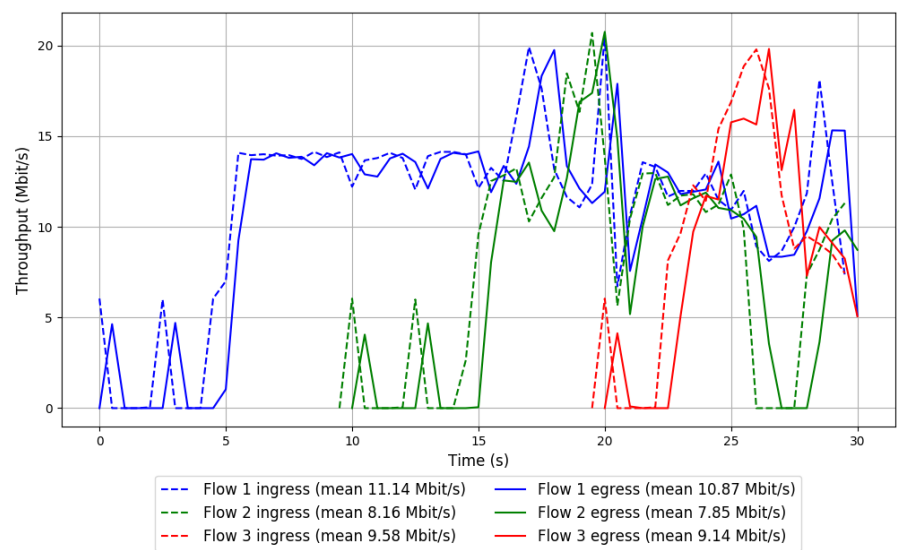
-- Flow 3:

Average throughput: 9.14 Mbit/s

95th percentile per-packet one-way delay: 92.635 ms

Loss rate: 6.53%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-07-18 11:00:18

End at: 2018-07-18 11:00:48

Local clock offset: 3.425 ms

Remote clock offset: 1.866 ms

Below is generated by plot.py at 2018-07-18 14:21:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 22.76 Mbit/s

95th percentile per-packet one-way delay: 69.007 ms

Loss rate: 2.33%

-- Flow 1:

Average throughput: 11.45 Mbit/s

95th percentile per-packet one-way delay: 66.478 ms

Loss rate: 2.06%

-- Flow 2:

Average throughput: 11.82 Mbit/s

95th percentile per-packet one-way delay: 68.762 ms

Loss rate: 2.13%

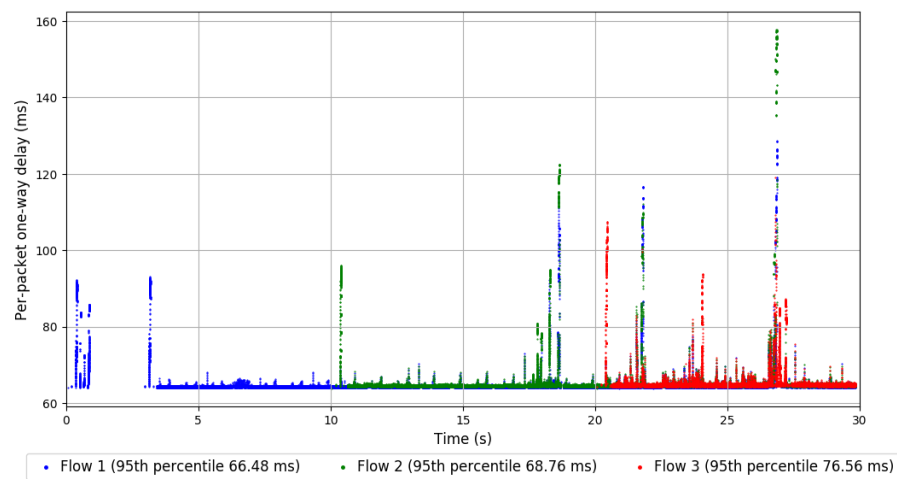
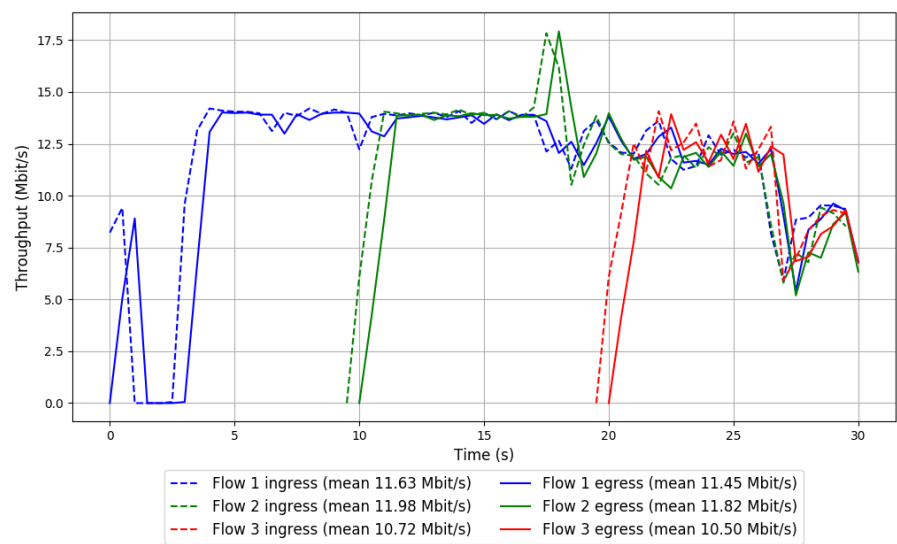
-- Flow 3:

Average throughput: 10.50 Mbit/s

95th percentile per-packet one-way delay: 76.562 ms

Loss rate: 3.70%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-07-18 11:32:52

End at: 2018-07-18 11:33:22

Local clock offset: 9.302 ms

Remote clock offset: 1.699 ms

Below is generated by plot.py at 2018-07-18 14:21:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 24.16 Mbit/s

95th percentile per-packet one-way delay: 65.900 ms

Loss rate: 2.50%

-- Flow 1:

Average throughput: 12.76 Mbit/s

95th percentile per-packet one-way delay: 64.882 ms

Loss rate: 1.87%

-- Flow 2:

Average throughput: 11.92 Mbit/s

95th percentile per-packet one-way delay: 67.485 ms

Loss rate: 2.85%

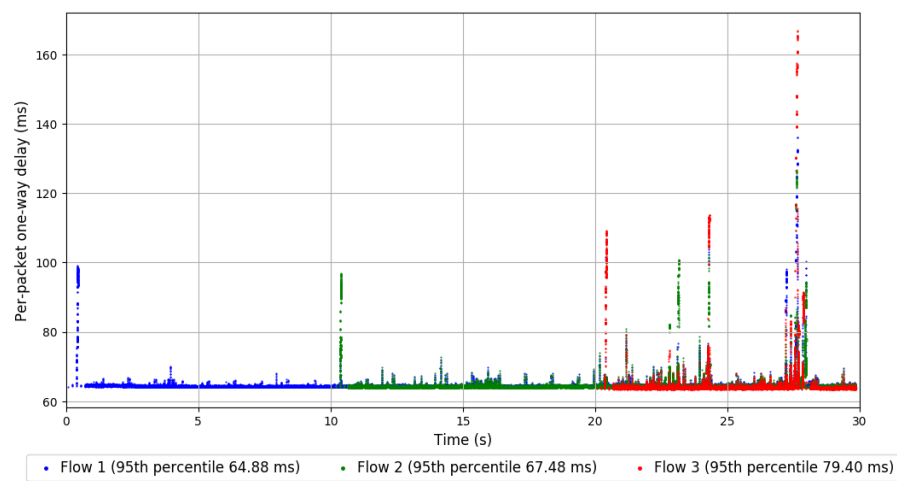
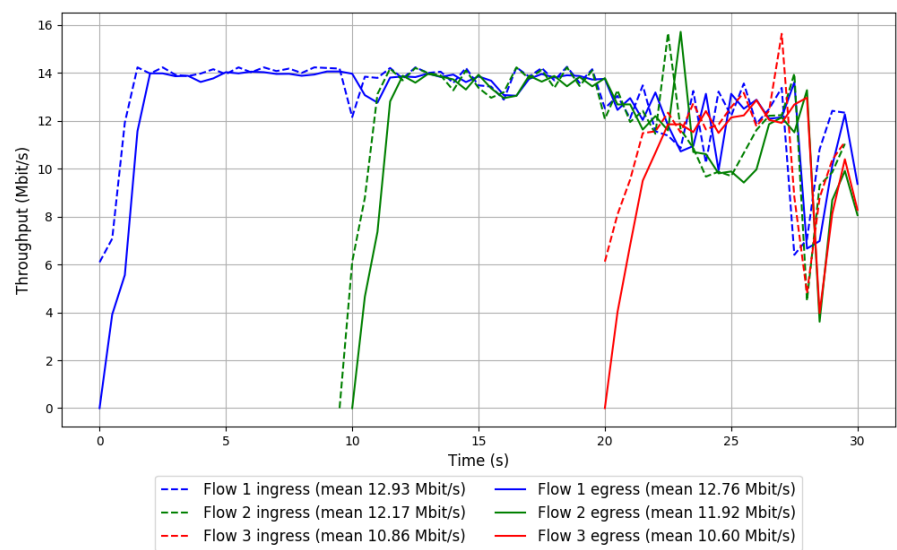
-- Flow 3:

Average throughput: 10.60 Mbit/s

95th percentile per-packet one-way delay: 79.404 ms

Loss rate: 3.98%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-07-18 12:03:26

End at: 2018-07-18 12:03:56

Local clock offset: 3.798 ms

Remote clock offset: 1.462 ms

Below is generated by plot.py at 2018-07-18 14:21:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.59 Mbit/s

95th percentile per-packet one-way delay: 83.284 ms

Loss rate: 2.51%

-- Flow 1:

Average throughput: 11.53 Mbit/s

95th percentile per-packet one-way delay: 76.432 ms

Loss rate: 1.38%

-- Flow 2:

Average throughput: 8.29 Mbit/s

95th percentile per-packet one-way delay: 89.678 ms

Loss rate: 3.85%

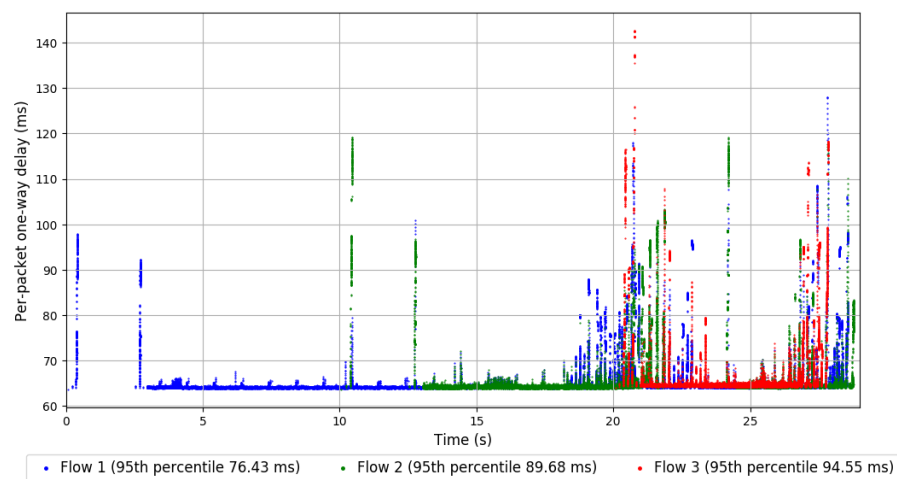
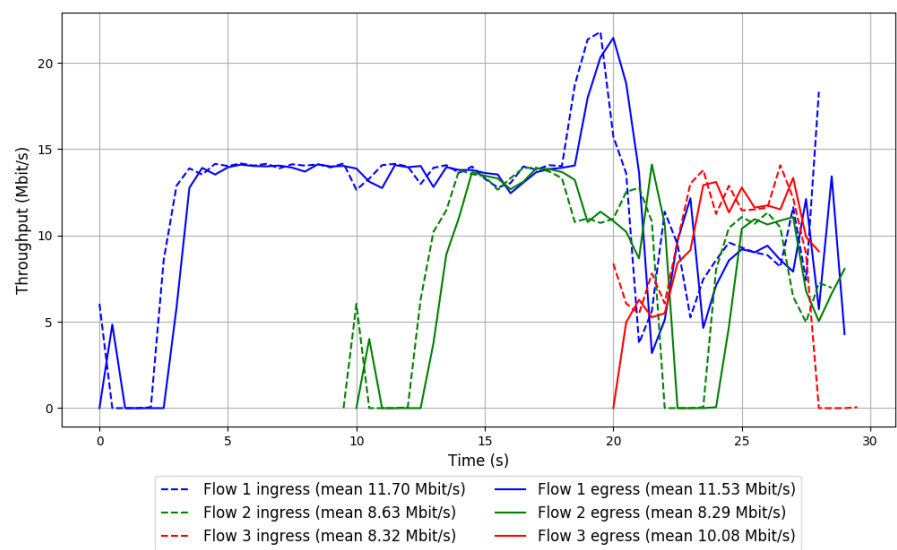
-- Flow 3:

Average throughput: 10.08 Mbit/s

95th percentile per-packet one-way delay: 94.545 ms

Loss rate: 4.44%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-07-18 12:36:43

End at: 2018-07-18 12:37:13

Local clock offset: 6.015 ms

Remote clock offset: 1.281 ms

Below is generated by plot.py at 2018-07-18 14:22:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.96 Mbit/s

95th percentile per-packet one-way delay: 87.297 ms

Loss rate: 6.54%

-- Flow 1:

Average throughput: 10.16 Mbit/s

95th percentile per-packet one-way delay: 82.436 ms

Loss rate: 5.50%

-- Flow 2:

Average throughput: 7.18 Mbit/s

95th percentile per-packet one-way delay: 91.415 ms

Loss rate: 8.14%

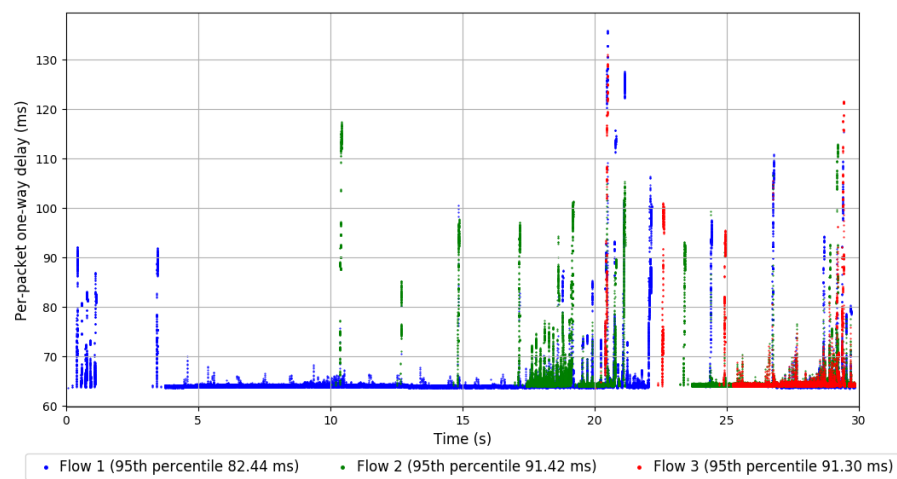
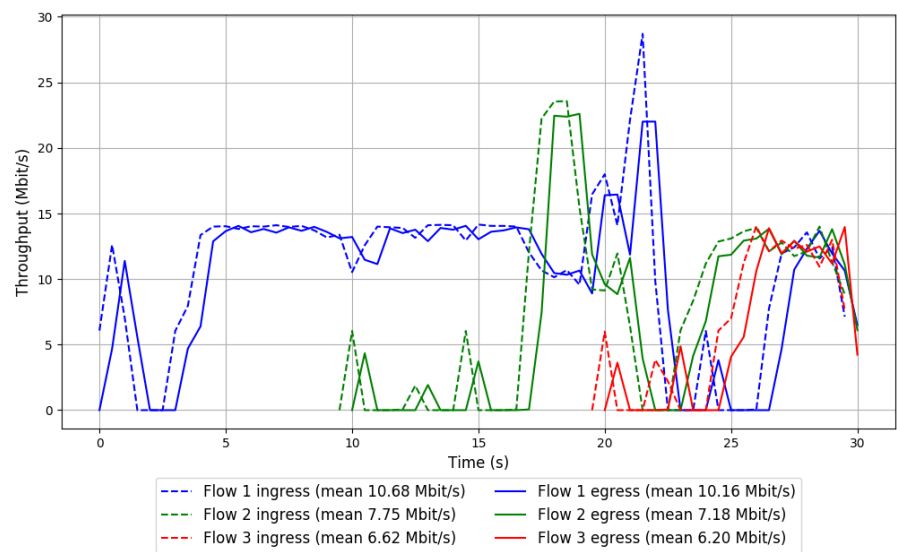
-- Flow 3:

Average throughput: 6.20 Mbit/s

95th percentile per-packet one-way delay: 91.298 ms

Loss rate: 7.85%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-07-18 13:08:17

End at: 2018-07-18 13:08:47

Local clock offset: 7.677 ms

Remote clock offset: 1.005 ms

Below is generated by plot.py at 2018-07-18 14:22:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.09 Mbit/s

95th percentile per-packet one-way delay: 82.445 ms

Loss rate: 4.86%

-- Flow 1:

Average throughput: 13.56 Mbit/s

95th percentile per-packet one-way delay: 69.270 ms

Loss rate: 1.81%

-- Flow 2:

Average throughput: 2.52 Mbit/s

95th percentile per-packet one-way delay: 97.506 ms

Loss rate: 17.99%

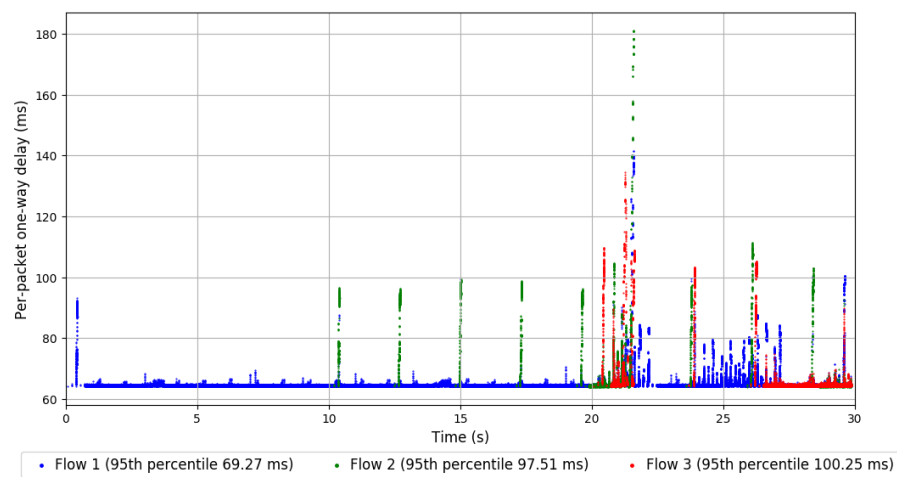
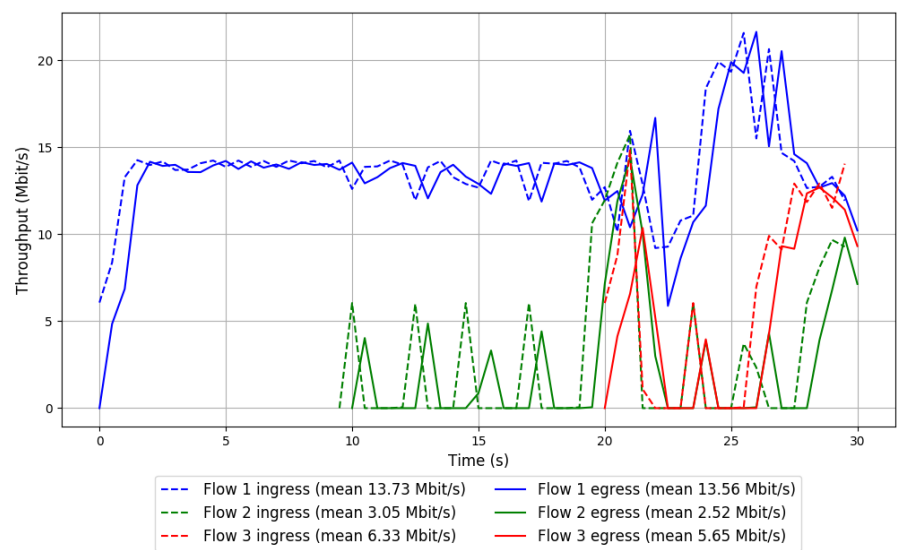
-- Flow 3:

Average throughput: 5.65 Mbit/s

95th percentile per-packet one-way delay: 100.254 ms

Loss rate: 12.08%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-07-18 13:38:37

End at: 2018-07-18 13:39:07

Local clock offset: -2.846 ms

Remote clock offset: 0.78 ms

Below is generated by plot.py at 2018-07-18 14:22:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.27 Mbit/s

95th percentile per-packet one-way delay: 87.793 ms

Loss rate: 4.25%

-- Flow 1:

Average throughput: 9.53 Mbit/s

95th percentile per-packet one-way delay: 83.969 ms

Loss rate: 4.17%

-- Flow 2:

Average throughput: 10.51 Mbit/s

95th percentile per-packet one-way delay: 89.646 ms

Loss rate: 3.72%

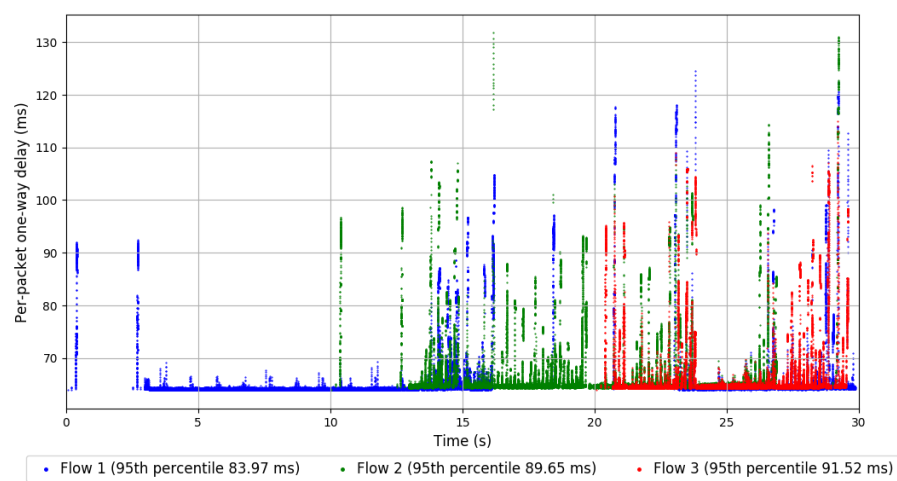
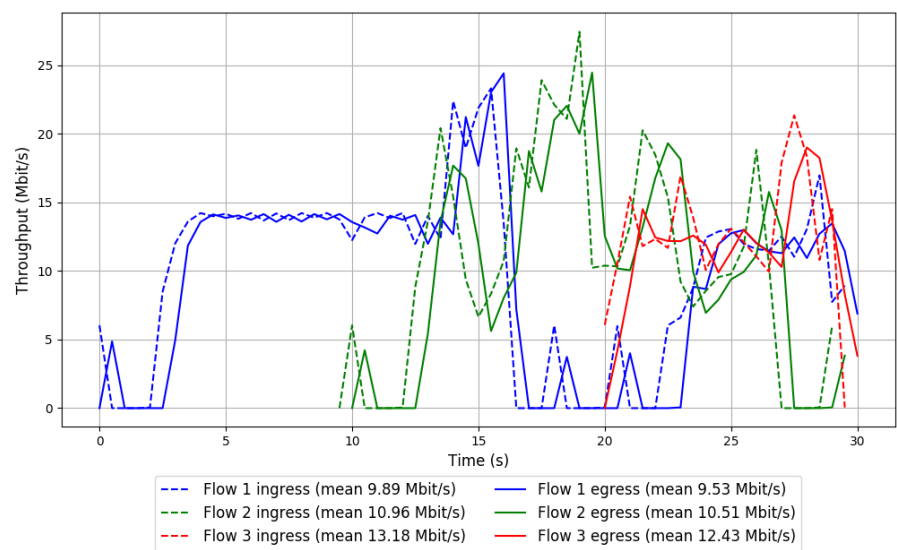
-- Flow 3:

Average throughput: 12.43 Mbit/s

95th percentile per-packet one-way delay: 91.519 ms

Loss rate: 5.35%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-07-18 14:11:12

End at: 2018-07-18 14:11:42

Local clock offset: -2.032 ms

Remote clock offset: 0.287 ms

Below is generated by plot.py at 2018-07-18 14:22:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.00 Mbit/s

95th percentile per-packet one-way delay: 81.599 ms

Loss rate: 4.63%

-- Flow 1:

Average throughput: 10.83 Mbit/s

95th percentile per-packet one-way delay: 76.518 ms

Loss rate: 3.37%

-- Flow 2:

Average throughput: 8.37 Mbit/s

95th percentile per-packet one-way delay: 86.610 ms

Loss rate: 6.18%

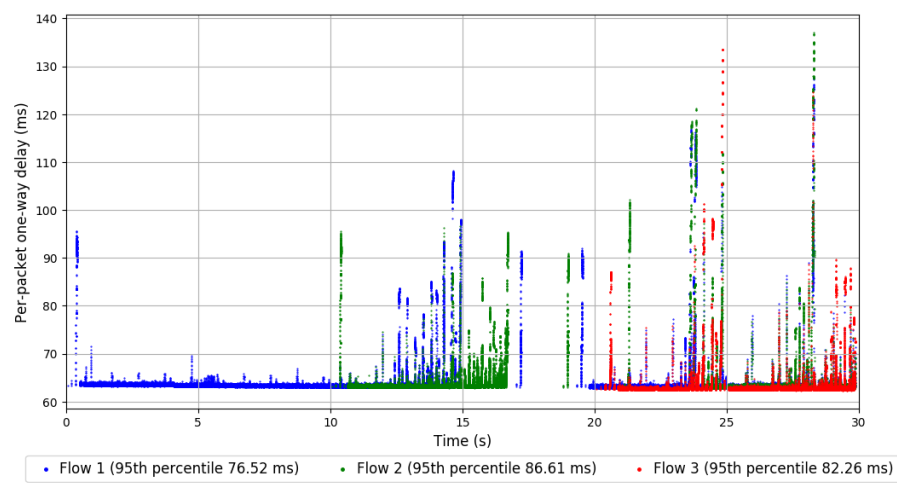
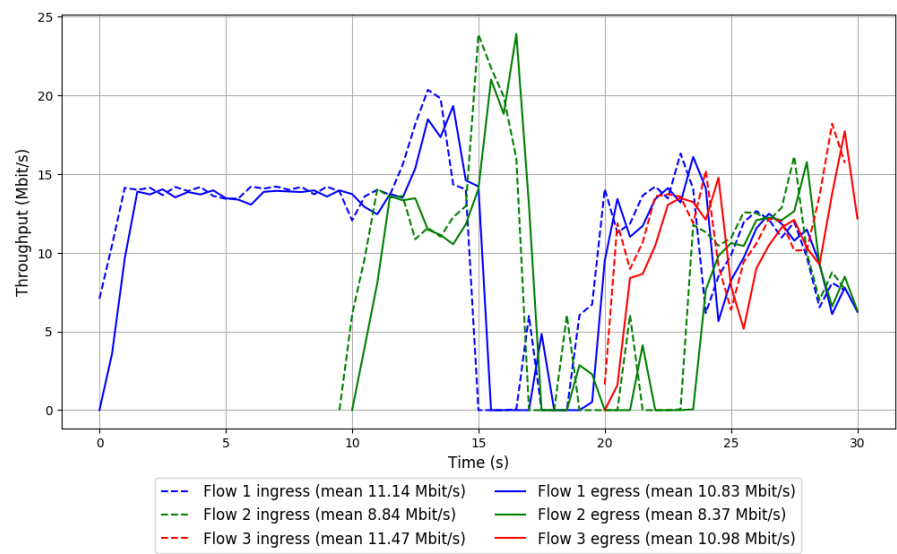
-- Flow 3:

Average throughput: 10.98 Mbit/s

95th percentile per-packet one-way delay: 82.256 ms

Loss rate: 5.91%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-07-18 09:21:28

End at: 2018-07-18 09:21:58

Local clock offset: 6.959 ms

Remote clock offset: 0.725 ms

Below is generated by plot.py at 2018-07-18 14:22:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.07 Mbit/s

95th percentile per-packet one-way delay: 72.940 ms

Loss rate: 1.40%

-- Flow 1:

Average throughput: 1.26 Mbit/s

95th percentile per-packet one-way delay: 69.287 ms

Loss rate: 0.95%

-- Flow 2:

Average throughput: 2.03 Mbit/s

95th percentile per-packet one-way delay: 80.359 ms

Loss rate: 1.27%

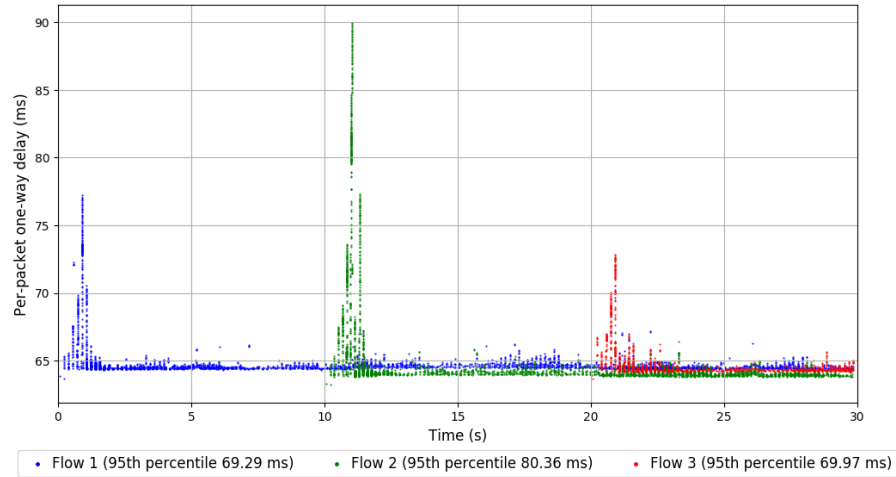
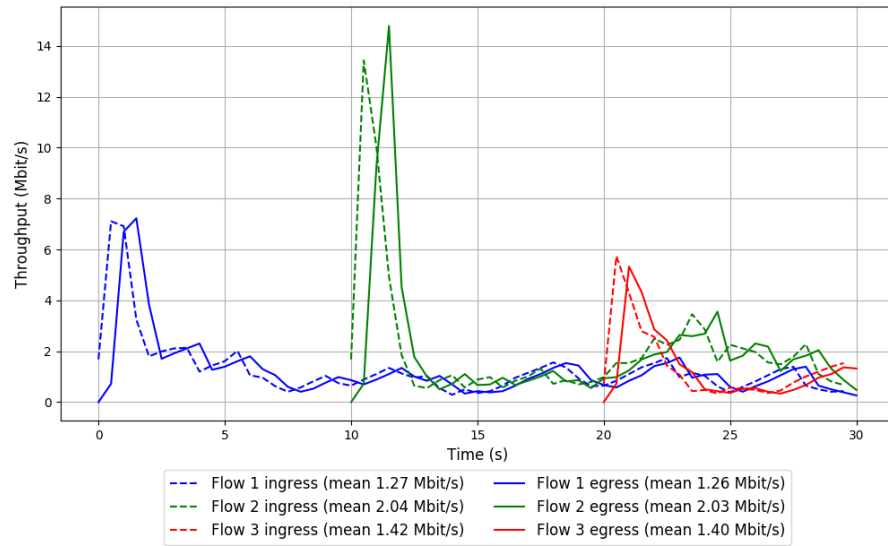
-- Flow 3:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 69.967 ms

Loss rate: 2.98%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-07-18 09:50:21

End at: 2018-07-18 09:50:51

Local clock offset: 2.243 ms

Remote clock offset: 1.341 ms

Below is generated by plot.py at 2018-07-18 14:22:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.59 Mbit/s

95th percentile per-packet one-way delay: 79.866 ms

Loss rate: 1.02%

-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 73.470 ms

Loss rate: 1.02%

-- Flow 2:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 68.009 ms

Loss rate: 0.89%

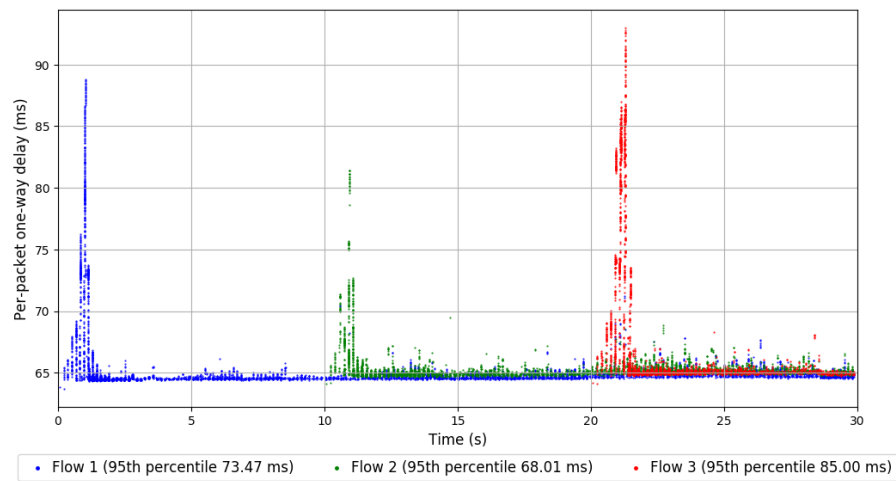
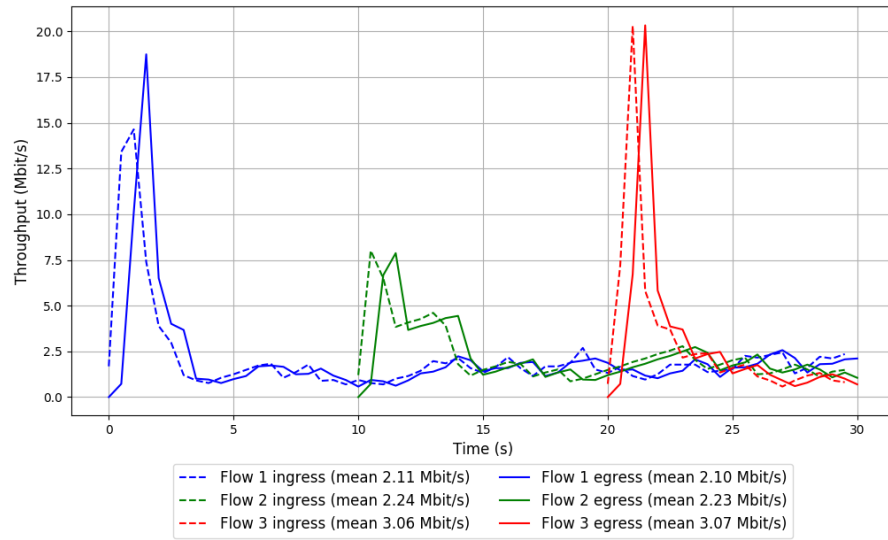
-- Flow 3:

Average throughput: 3.07 Mbit/s

95th percentile per-packet one-way delay: 85.002 ms

Loss rate: 1.22%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-07-18 10:18:20

End at: 2018-07-18 10:18:50

Local clock offset: -0.358 ms

Remote clock offset: 1.806 ms

Below is generated by plot.py at 2018-07-18 14:22:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.77 Mbit/s

95th percentile per-packet one-way delay: 72.927 ms

Loss rate: 1.04%

-- Flow 1:

Average throughput: 2.52 Mbit/s

95th percentile per-packet one-way delay: 65.494 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 1.37 Mbit/s

95th percentile per-packet one-way delay: 66.157 ms

Loss rate: 1.91%

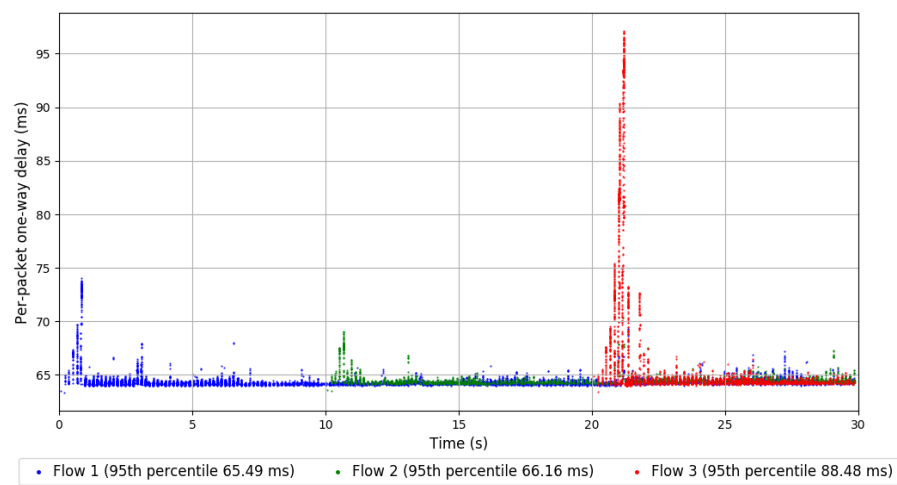
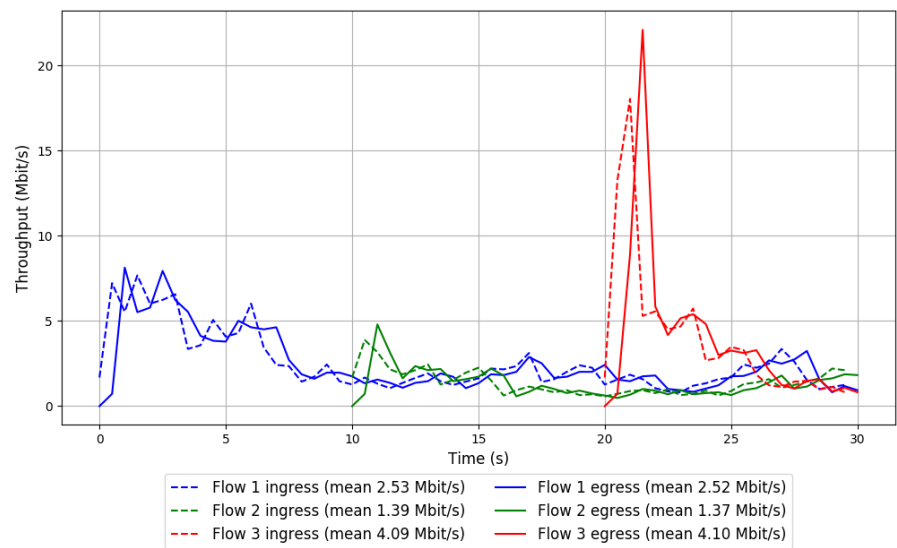
-- Flow 3:

Average throughput: 4.10 Mbit/s

95th percentile per-packet one-way delay: 88.481 ms

Loss rate: 1.36%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-07-18 10:49:51

End at: 2018-07-18 10:50:21

Local clock offset: 2.257 ms

Remote clock offset: 1.991 ms

Below is generated by plot.py at 2018-07-18 14:22:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 66.640 ms

Loss rate: 1.73%

-- Flow 1:

Average throughput: 1.09 Mbit/s

95th percentile per-packet one-way delay: 66.876 ms

Loss rate: 1.27%

-- Flow 2:

Average throughput: 1.26 Mbit/s

95th percentile per-packet one-way delay: 67.051 ms

Loss rate: 1.80%

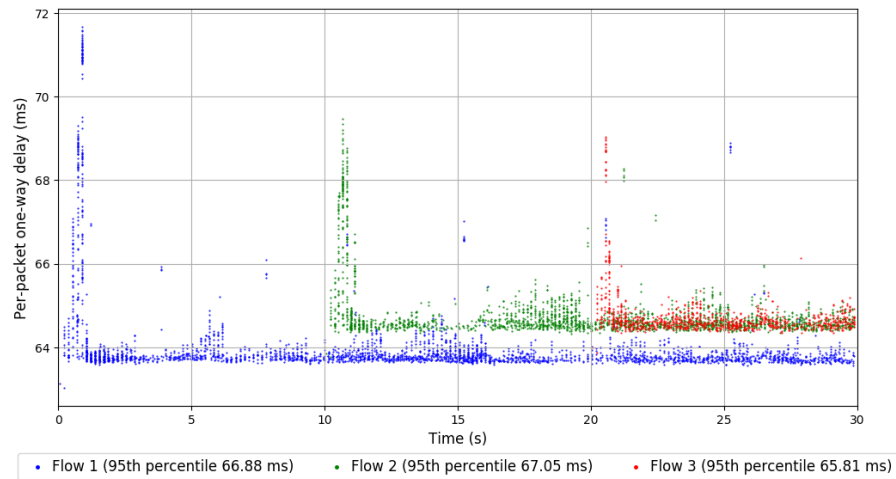
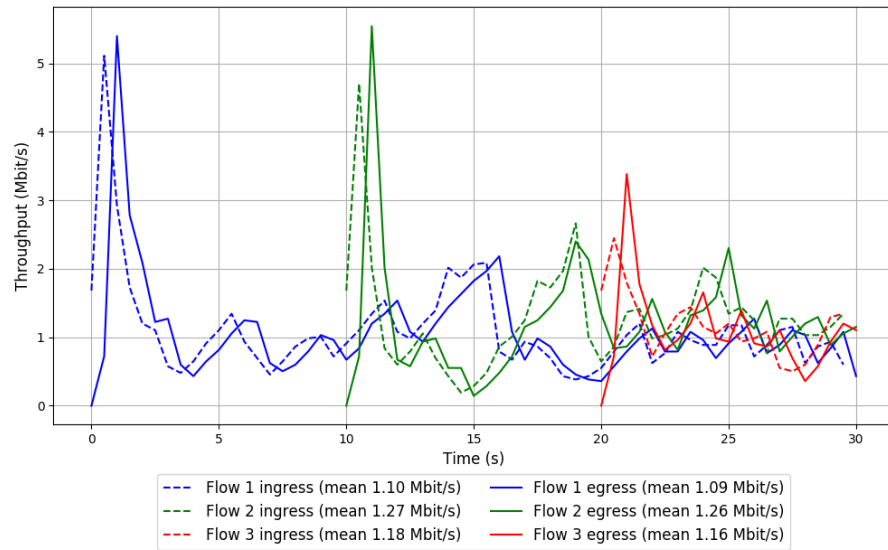
-- Flow 3:

Average throughput: 1.16 Mbit/s

95th percentile per-packet one-way delay: 65.807 ms

Loss rate: 2.87%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-07-18 11:21:36

End at: 2018-07-18 11:22:06

Local clock offset: 7.595 ms

Remote clock offset: 1.906 ms

Below is generated by plot.py at 2018-07-18 14:22:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.83 Mbit/s

95th percentile per-packet one-way delay: 67.254 ms

Loss rate: 2.09%

-- Flow 1:

Average throughput: 0.89 Mbit/s

95th percentile per-packet one-way delay: 65.795 ms

Loss rate: 1.77%

-- Flow 2:

Average throughput: 0.89 Mbit/s

95th percentile per-packet one-way delay: 67.031 ms

Loss rate: 1.93%

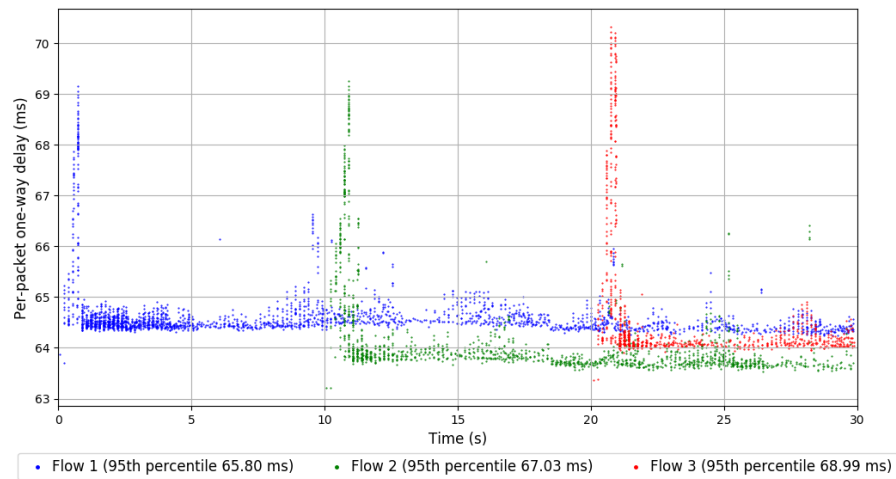
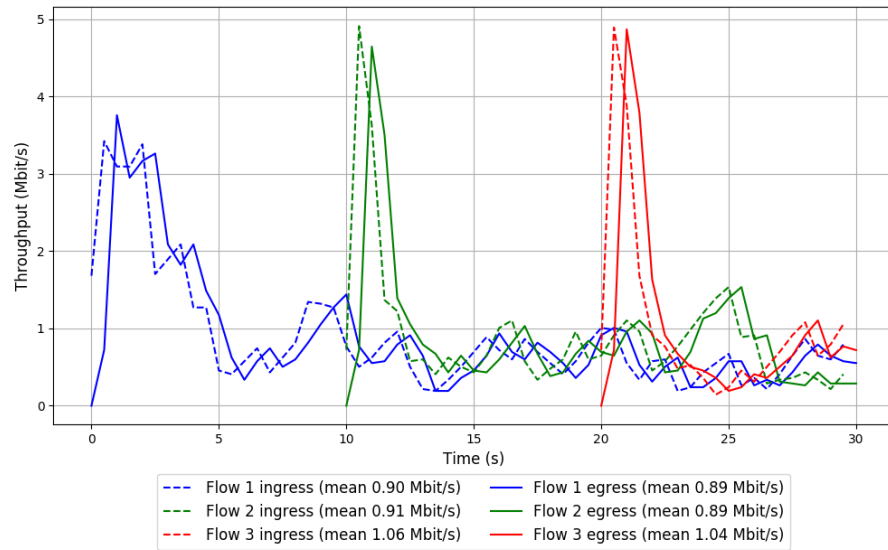
-- Flow 3:

Average throughput: 1.04 Mbit/s

95th percentile per-packet one-way delay: 68.994 ms

Loss rate: 3.19%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-07-18 11:53:04

End at: 2018-07-18 11:53:34

Local clock offset: 5.066 ms

Remote clock offset: 1.564 ms

Below is generated by plot.py at 2018-07-18 14:22:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.37 Mbit/s

95th percentile per-packet one-way delay: 67.636 ms

Loss rate: 1.51%

-- Flow 1:

Average throughput: 1.10 Mbit/s

95th percentile per-packet one-way delay: 65.377 ms

Loss rate: 1.05%

-- Flow 2:

Average throughput: 1.27 Mbit/s

95th percentile per-packet one-way delay: 67.342 ms

Loss rate: 1.69%

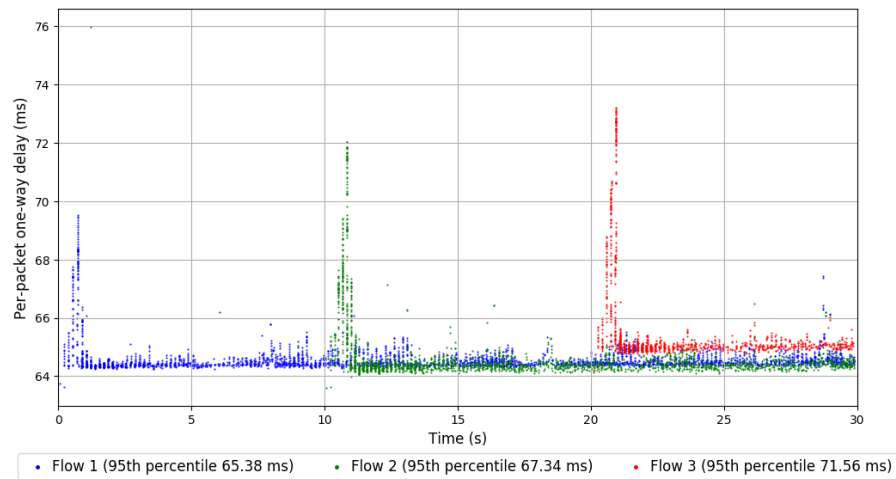
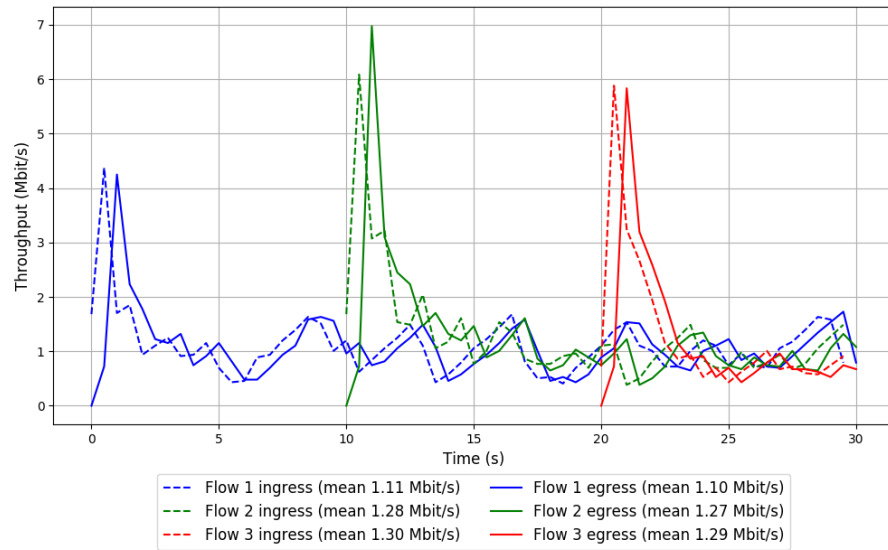
-- Flow 3:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 71.556 ms

Loss rate: 2.33%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-07-18 12:25:06

End at: 2018-07-18 12:25:36

Local clock offset: 5.57 ms

Remote clock offset: 1.347 ms

Below is generated by plot.py at 2018-07-18 14:22:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.07 Mbit/s

95th percentile per-packet one-way delay: 67.595 ms

Loss rate: 2.04%

-- Flow 1:

Average throughput: 0.90 Mbit/s

95th percentile per-packet one-way delay: 64.998 ms

Loss rate: 1.67%

-- Flow 2:

Average throughput: 1.10 Mbit/s

95th percentile per-packet one-way delay: 66.522 ms

Loss rate: 2.27%

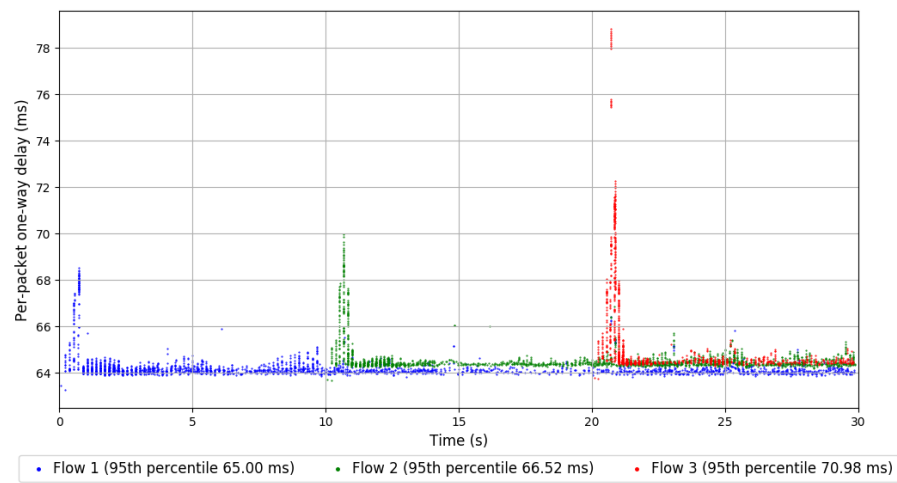
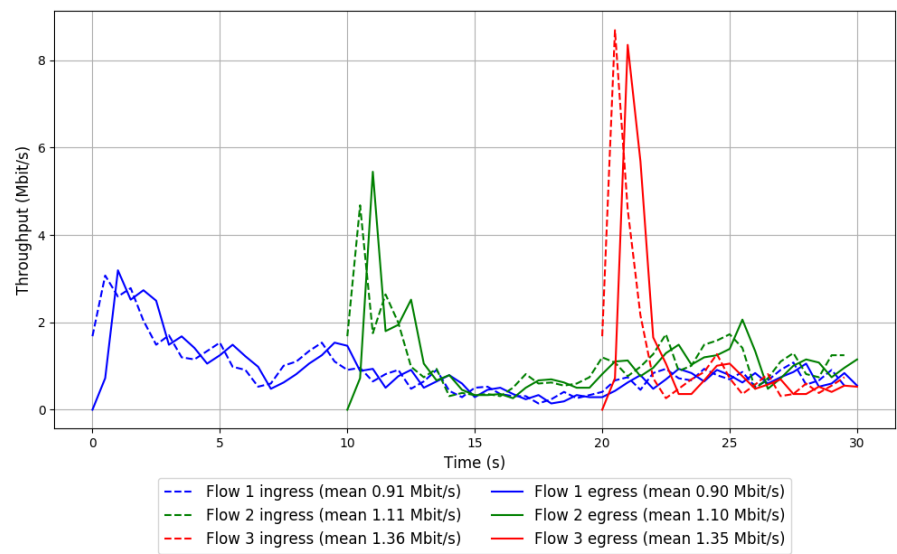
-- Flow 3:

Average throughput: 1.35 Mbit/s

95th percentile per-packet one-way delay: 70.981 ms

Loss rate: 2.41%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-07-18 12:57:34

End at: 2018-07-18 12:58:04

Local clock offset: 7.327 ms

Remote clock offset: 1.169 ms

Below is generated by plot.py at 2018-07-18 14:22:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.44 Mbit/s

95th percentile per-packet one-way delay: 72.258 ms

Loss rate: 1.68%

-- Flow 1:

Average throughput: 1.08 Mbit/s

95th percentile per-packet one-way delay: 66.627 ms

Loss rate: 1.58%

-- Flow 2:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 81.622 ms

Loss rate: 1.86%

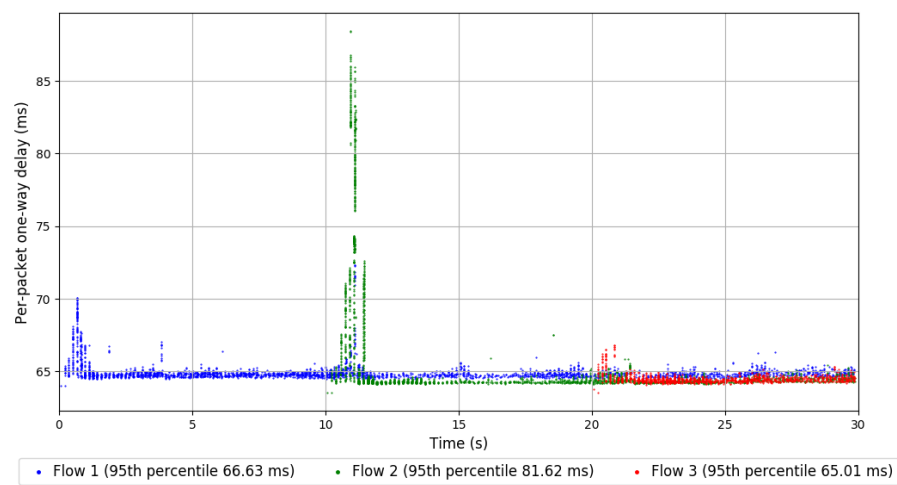
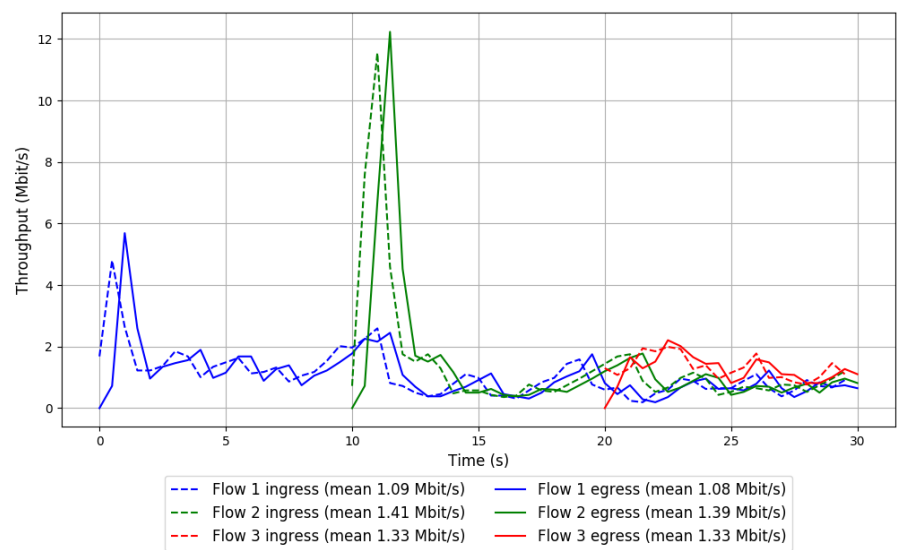
-- Flow 3:

Average throughput: 1.33 Mbit/s

95th percentile per-packet one-way delay: 65.010 ms

Loss rate: 1.54%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-07-18 13:28:08

End at: 2018-07-18 13:28:38

Local clock offset: -1.093 ms

Remote clock offset: 0.983 ms

Below is generated by plot.py at 2018-07-18 14:22:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.55 Mbit/s

95th percentile per-packet one-way delay: 71.807 ms

Loss rate: 1.83%

-- Flow 1:

Average throughput: 1.27 Mbit/s

95th percentile per-packet one-way delay: 71.175 ms

Loss rate: 1.19%

-- Flow 2:

Average throughput: 0.94 Mbit/s

95th percentile per-packet one-way delay: 65.944 ms

Loss rate: 2.45%

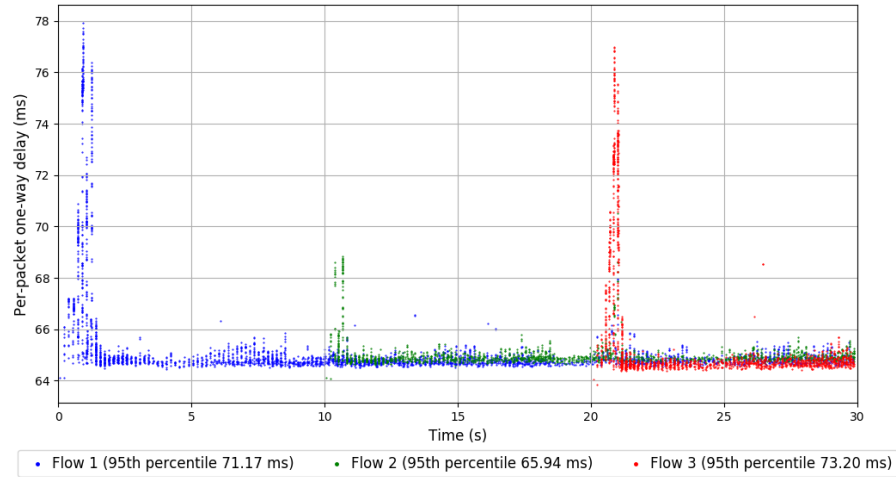
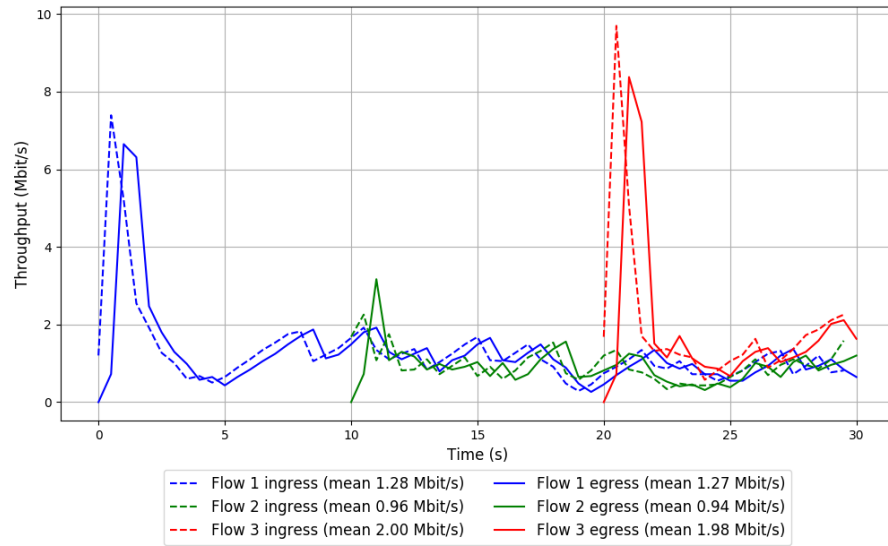
-- Flow 3:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 73.200 ms

Loss rate: 2.47%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-07-18 13:59:35

End at: 2018-07-18 14:00:05

Local clock offset: -1.85 ms

Remote clock offset: 0.547 ms

Below is generated by plot.py at 2018-07-18 14:22:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 65.723 ms

Loss rate: 1.70%

-- Flow 1:

Average throughput: 1.11 Mbit/s

95th percentile per-packet one-way delay: 67.277 ms

Loss rate: 1.36%

-- Flow 2:

Average throughput: 0.94 Mbit/s

95th percentile per-packet one-way delay: 65.042 ms

Loss rate: 1.78%

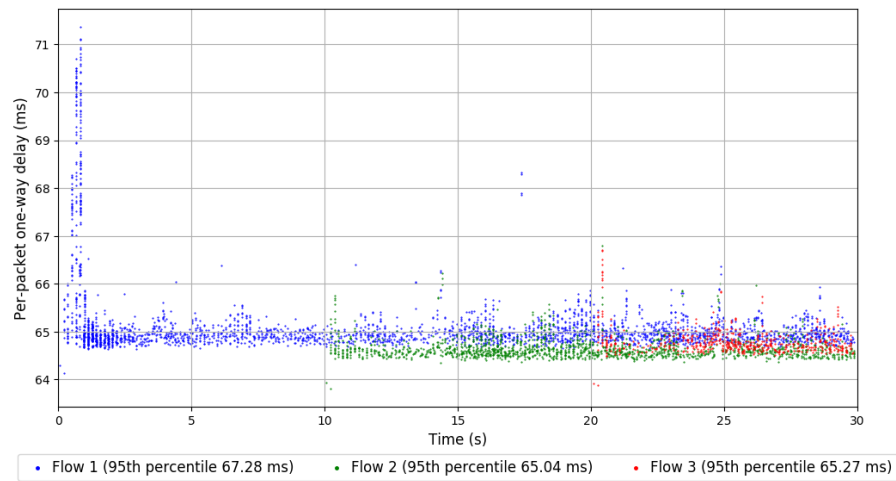
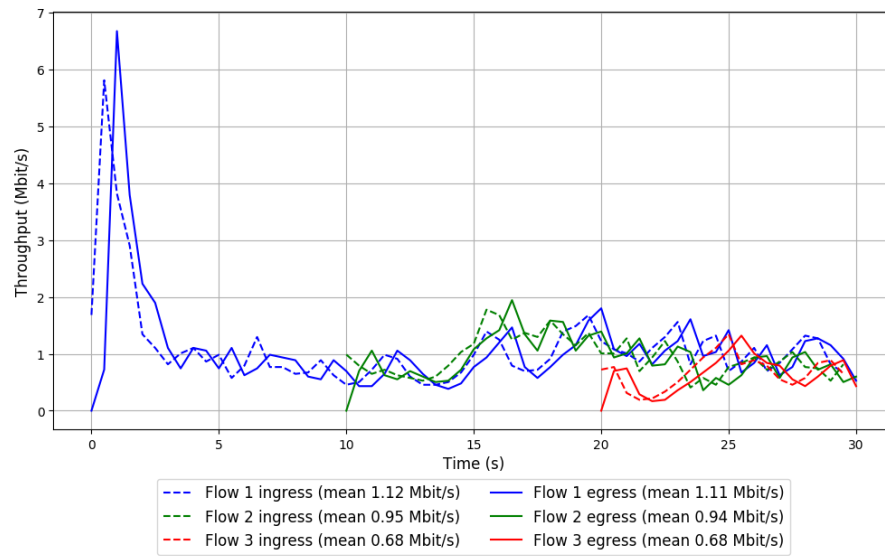
-- Flow 3:

Average throughput: 0.68 Mbit/s

95th percentile per-packet one-way delay: 65.272 ms

Loss rate: 3.17%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-07-18 09:29:24

End at: 2018-07-18 09:29:54

Local clock offset: 7.39 ms

Remote clock offset: 0.91 ms

Below is generated by plot.py at 2018-07-18 14:22:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 26.33 Mbit/s

95th percentile per-packet one-way delay: 121.136 ms

Loss rate: 41.70%

-- Flow 1:

Average throughput: 16.22 Mbit/s

95th percentile per-packet one-way delay: 105.369 ms

Loss rate: 45.47%

-- Flow 2:

Average throughput: 11.72 Mbit/s

95th percentile per-packet one-way delay: 141.327 ms

Loss rate: 35.21%

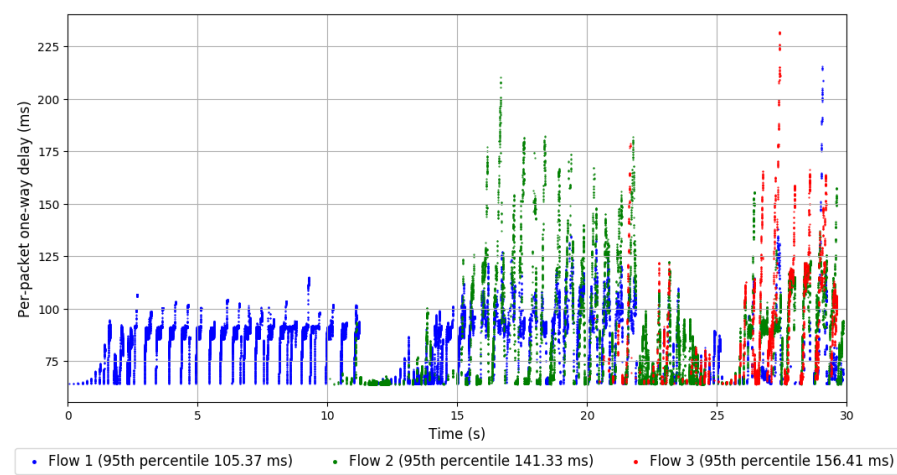
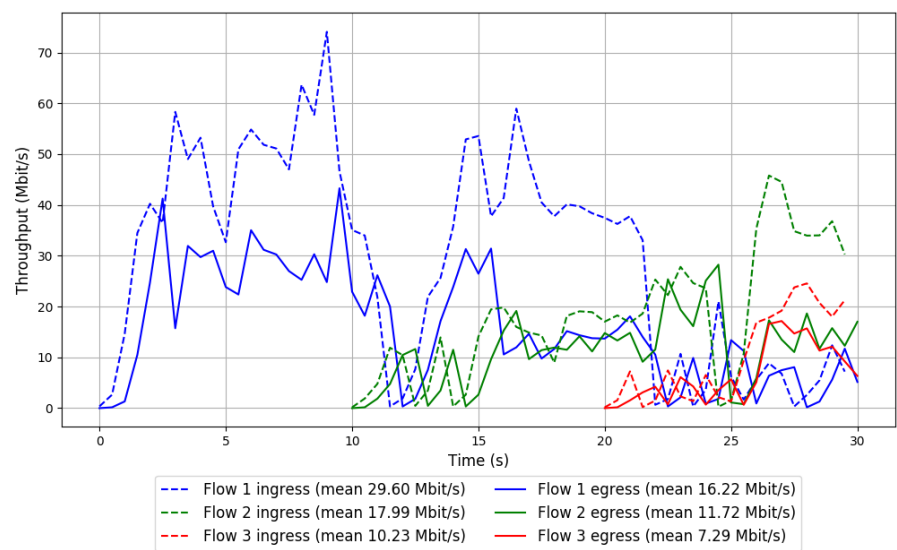
-- Flow 3:

Average throughput: 7.29 Mbit/s

95th percentile per-packet one-way delay: 156.409 ms

Loss rate: 31.67%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-07-18 09:57:49

End at: 2018-07-18 09:58:19

Local clock offset: 0.216 ms

Remote clock offset: 1.585 ms

Below is generated by plot.py at 2018-07-18 14:22:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 28.72 Mbit/s

95th percentile per-packet one-way delay: 116.474 ms

Loss rate: 31.73%

-- Flow 1:

Average throughput: 20.15 Mbit/s

95th percentile per-packet one-way delay: 106.010 ms

Loss rate: 37.73%

-- Flow 2:

Average throughput: 7.78 Mbit/s

95th percentile per-packet one-way delay: 129.008 ms

Loss rate: 6.53%

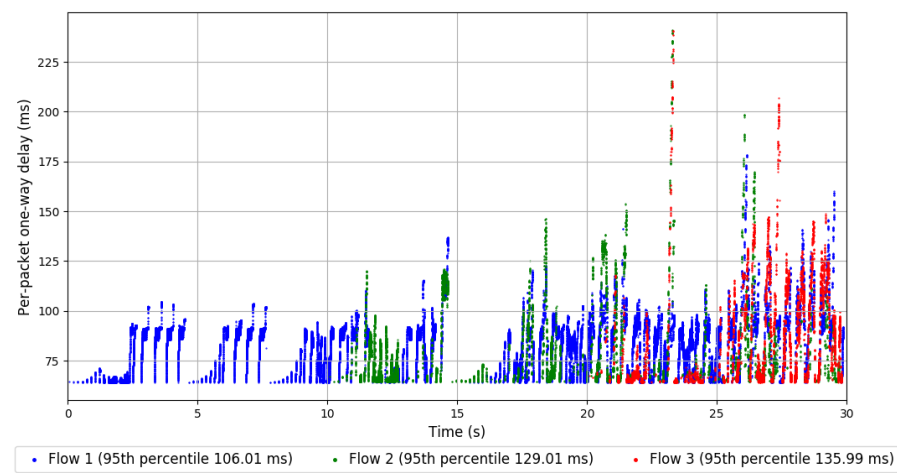
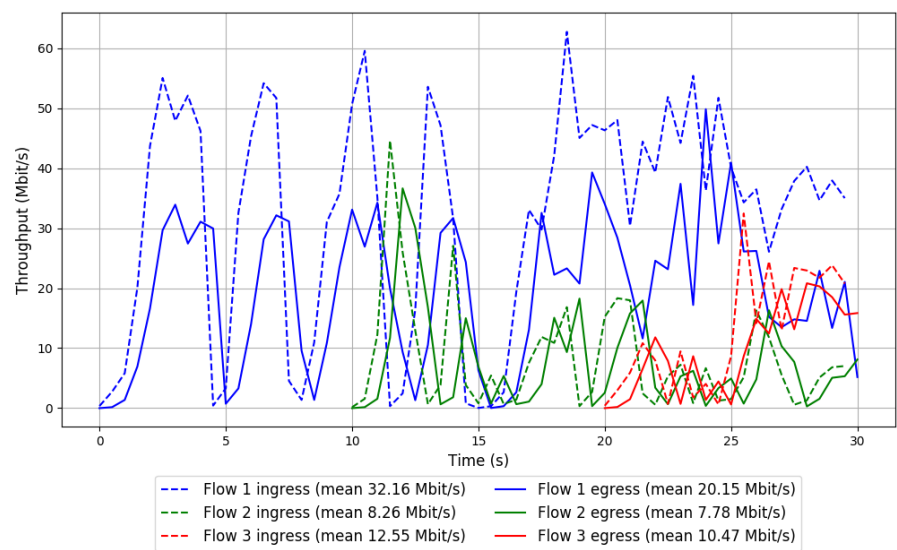
-- Flow 3:

Average throughput: 10.47 Mbit/s

95th percentile per-packet one-way delay: 135.994 ms

Loss rate: 18.54%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-07-18 10:26:52

End at: 2018-07-18 10:27:22

Local clock offset: 0.289 ms

Remote clock offset: 1.842 ms

Below is generated by plot.py at 2018-07-18 14:22:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 31.95 Mbit/s

95th percentile per-packet one-way delay: 118.014 ms

Loss rate: 30.78%

-- Flow 1:

Average throughput: 22.14 Mbit/s

95th percentile per-packet one-way delay: 113.700 ms

Loss rate: 24.33%

-- Flow 2:

Average throughput: 9.52 Mbit/s

95th percentile per-packet one-way delay: 121.271 ms

Loss rate: 36.60%

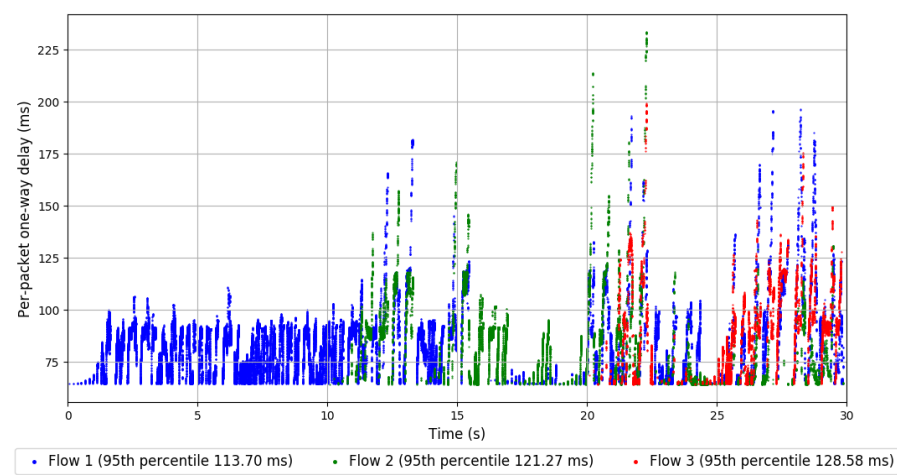
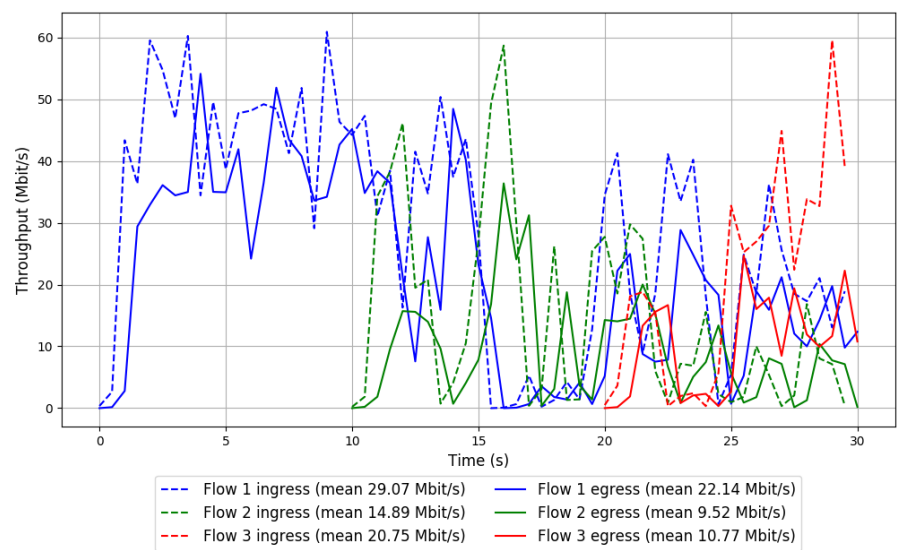
-- Flow 3:

Average throughput: 10.77 Mbit/s

95th percentile per-packet one-way delay: 128.577 ms

Loss rate: 49.56%

Run 3: Report of Verus — Data Link

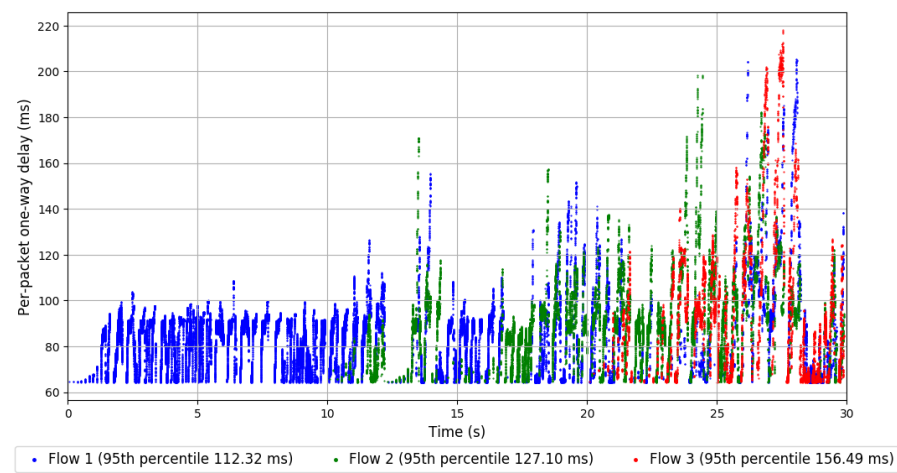
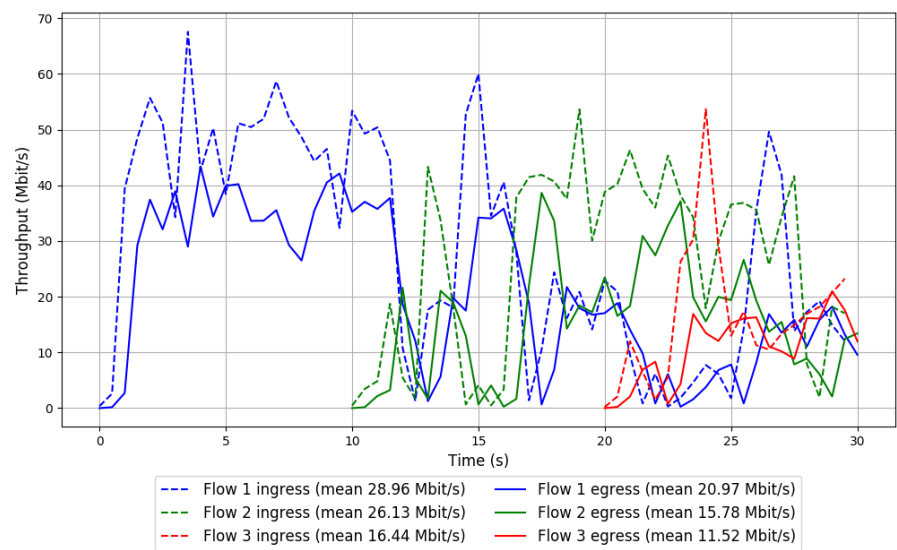


Run 4: Statistics of Verus

Start at: 2018-07-18 10:58:10
End at: 2018-07-18 10:58:40
Local clock offset: 3.195 ms
Remote clock offset: 1.921 ms

```
# Below is generated by plot.py at 2018-07-18 14:22:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 35.24 Mbit/s
95th percentile per-packet one-way delay: 121.696 ms
Loss rate: 32.37%
-- Flow 1:
Average throughput: 20.97 Mbit/s
95th percentile per-packet one-way delay: 112.323 ms
Loss rate: 27.99%
-- Flow 2:
Average throughput: 15.78 Mbit/s
95th percentile per-packet one-way delay: 127.102 ms
Loss rate: 40.09%
-- Flow 3:
Average throughput: 11.52 Mbit/s
95th percentile per-packet one-way delay: 156.491 ms
Loss rate: 30.96%
```

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-07-18 11:30:49

End at: 2018-07-18 11:31:19

Local clock offset: 9.145 ms

Remote clock offset: 1.745 ms

Below is generated by plot.py at 2018-07-18 14:22:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 24.33 Mbit/s

95th percentile per-packet one-way delay: 121.874 ms

Loss rate: 37.73%

-- Flow 1:

Average throughput: 12.65 Mbit/s

95th percentile per-packet one-way delay: 114.401 ms

Loss rate: 41.89%

-- Flow 2:

Average throughput: 12.79 Mbit/s

95th percentile per-packet one-way delay: 126.882 ms

Loss rate: 25.95%

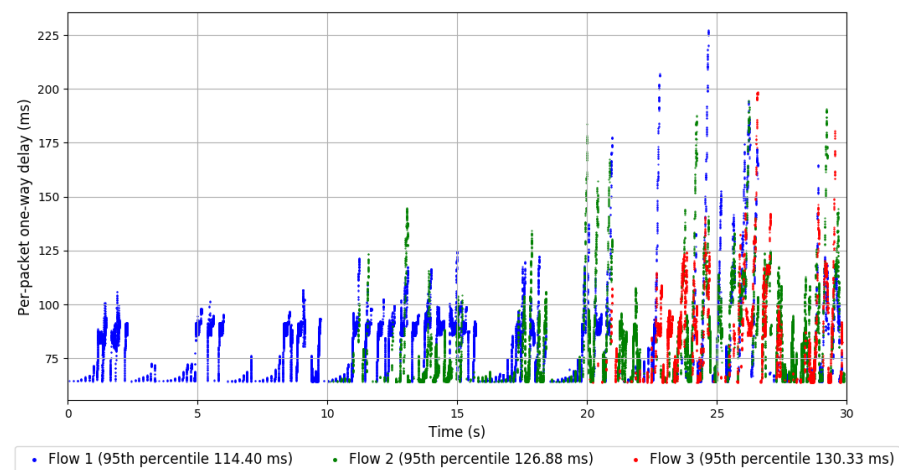
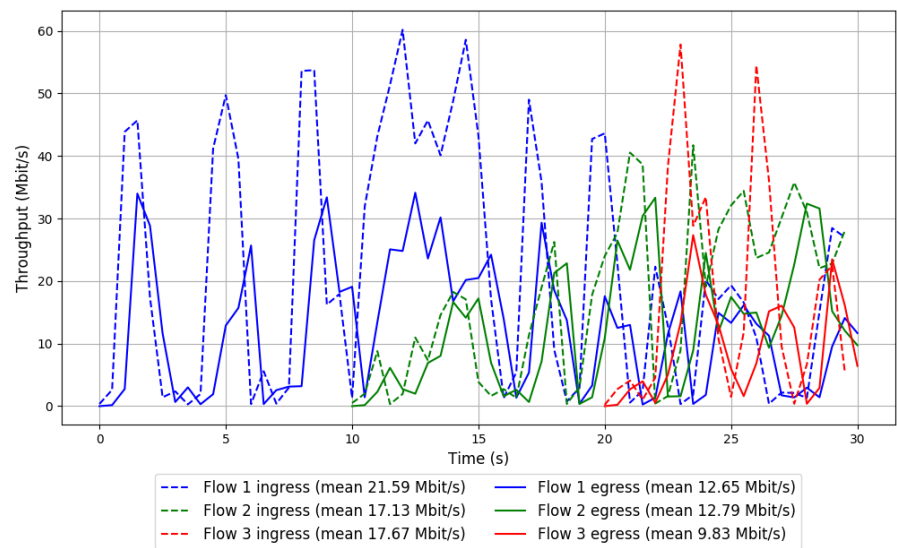
-- Flow 3:

Average throughput: 9.83 Mbit/s

95th percentile per-packet one-way delay: 130.334 ms

Loss rate: 45.39%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-07-18 12:01:33

End at: 2018-07-18 12:02:03

Local clock offset: 3.943 ms

Remote clock offset: 1.425 ms

Below is generated by plot.py at 2018-07-18 14:22:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 26.55 Mbit/s

95th percentile per-packet one-way delay: 119.152 ms

Loss rate: 38.19%

-- Flow 1:

Average throughput: 15.32 Mbit/s

95th percentile per-packet one-way delay: 119.175 ms

Loss rate: 28.33%

-- Flow 2:

Average throughput: 11.25 Mbit/s

95th percentile per-packet one-way delay: 117.240 ms

Loss rate: 53.25%

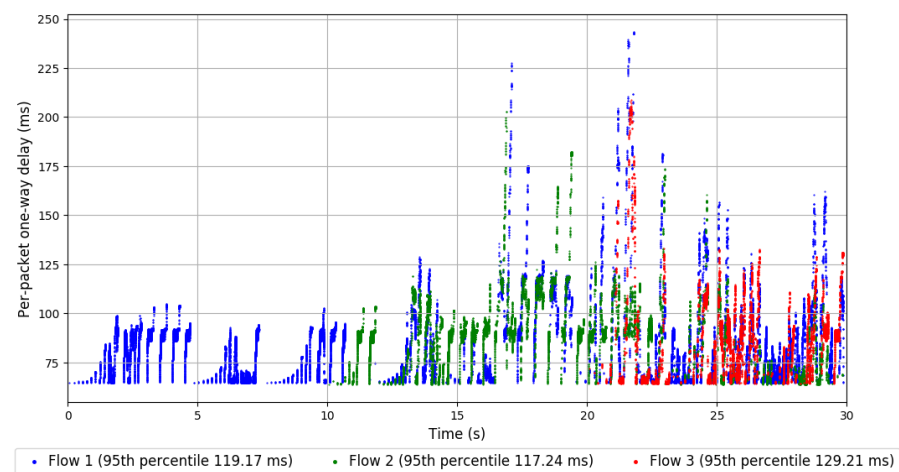
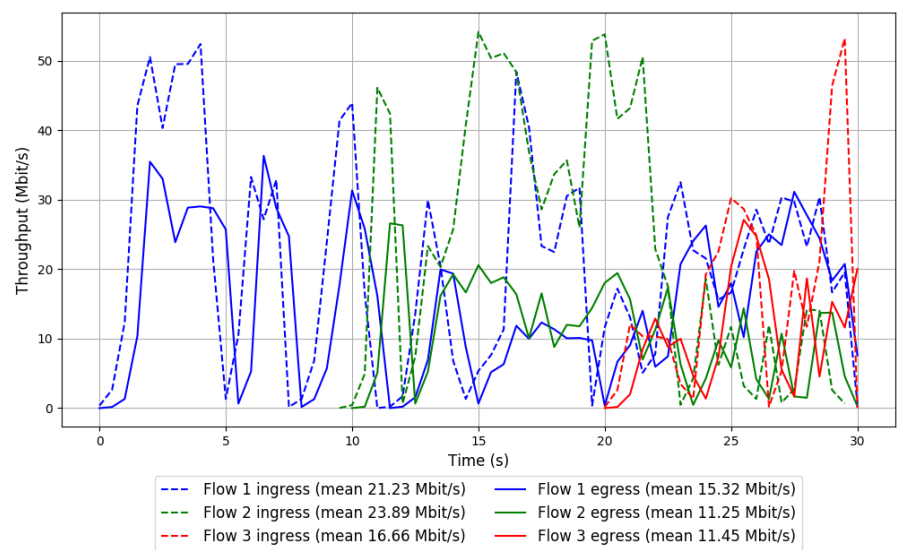
-- Flow 3:

Average throughput: 11.45 Mbit/s

95th percentile per-packet one-way delay: 129.207 ms

Loss rate: 32.91%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-07-18 12:34:17

End at: 2018-07-18 12:34:47

Local clock offset: 5.978 ms

Remote clock offset: 1.347 ms

Below is generated by plot.py at 2018-07-18 14:22:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 29.48 Mbit/s

95th percentile per-packet one-way delay: 134.857 ms

Loss rate: 40.98%

-- Flow 1:

Average throughput: 19.02 Mbit/s

95th percentile per-packet one-way delay: 136.919 ms

Loss rate: 28.00%

-- Flow 2:

Average throughput: 13.85 Mbit/s

95th percentile per-packet one-way delay: 129.716 ms

Loss rate: 58.52%

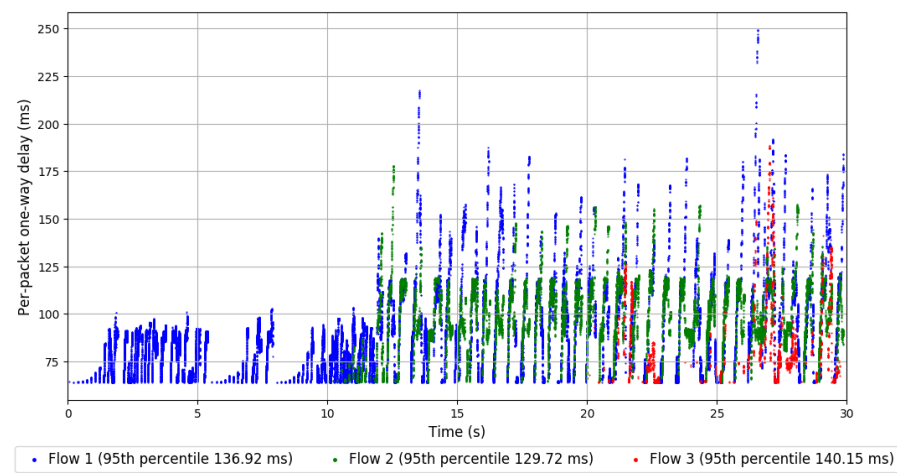
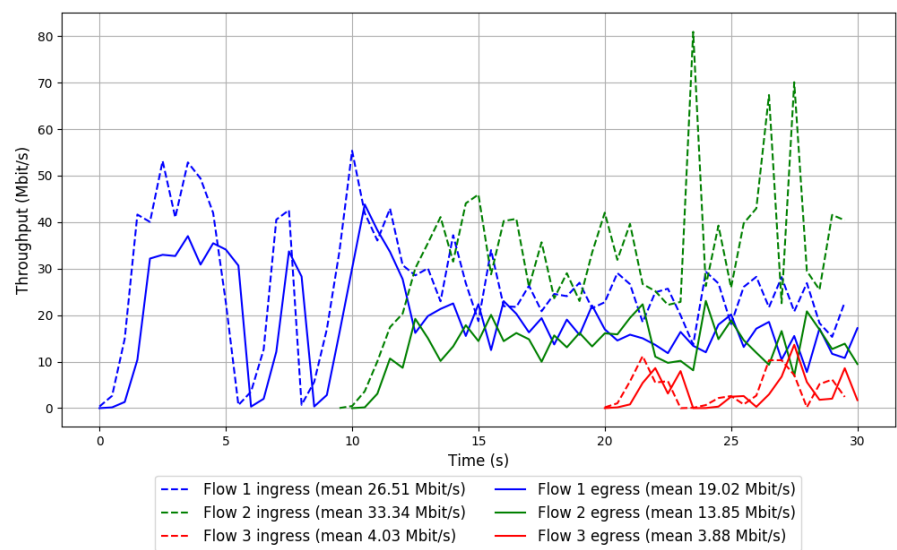
-- Flow 3:

Average throughput: 3.88 Mbit/s

95th percentile per-packet one-way delay: 140.151 ms

Loss rate: 6.50%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-07-18 13:06:27

End at: 2018-07-18 13:06:57

Local clock offset: 7.713 ms

Remote clock offset: 1.043 ms

Below is generated by plot.py at 2018-07-18 14:22:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 28.37 Mbit/s

95th percentile per-packet one-way delay: 129.403 ms

Loss rate: 30.35%

-- Flow 1:

Average throughput: 16.67 Mbit/s

95th percentile per-packet one-way delay: 128.041 ms

Loss rate: 23.33%

-- Flow 2:

Average throughput: 13.61 Mbit/s

95th percentile per-packet one-way delay: 124.945 ms

Loss rate: 41.00%

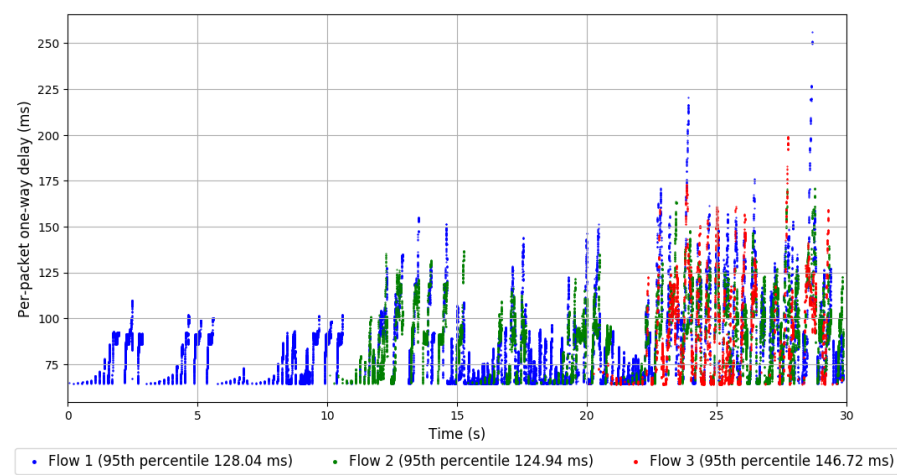
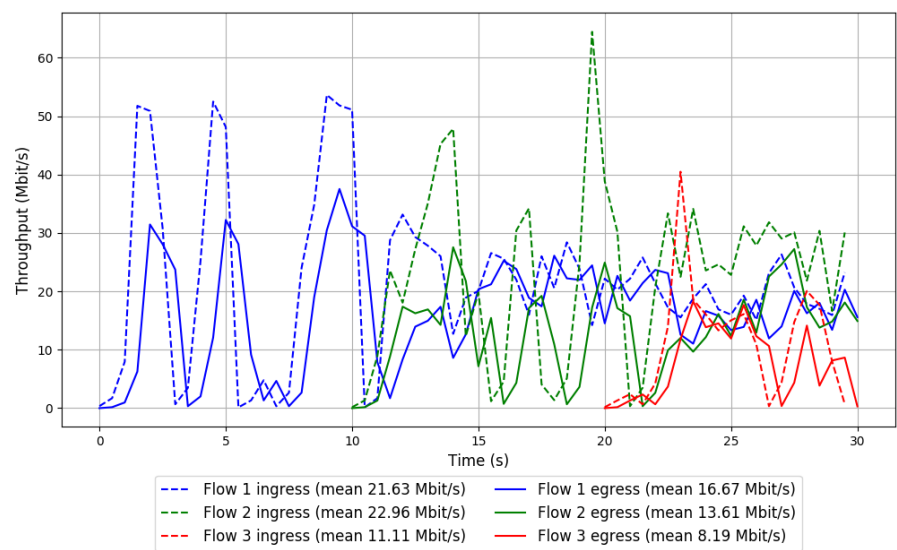
-- Flow 3:

Average throughput: 8.19 Mbit/s

95th percentile per-packet one-way delay: 146.725 ms

Loss rate: 27.46%

Run 8: Report of Verus — Data Link

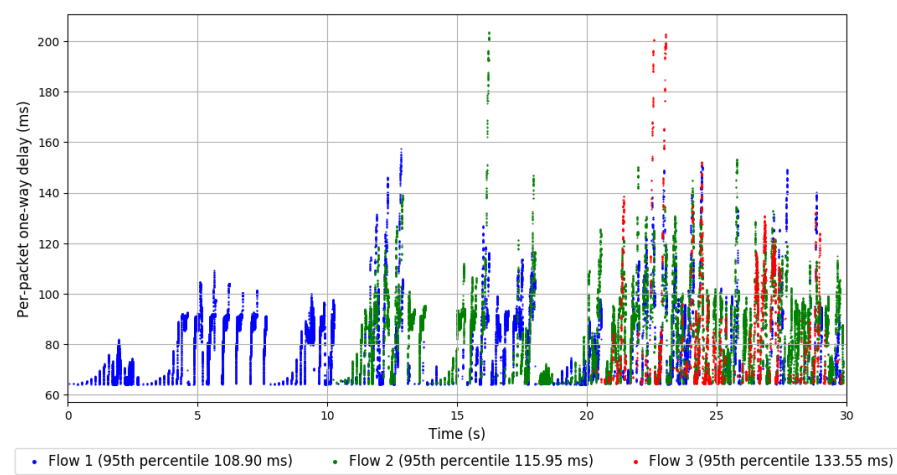
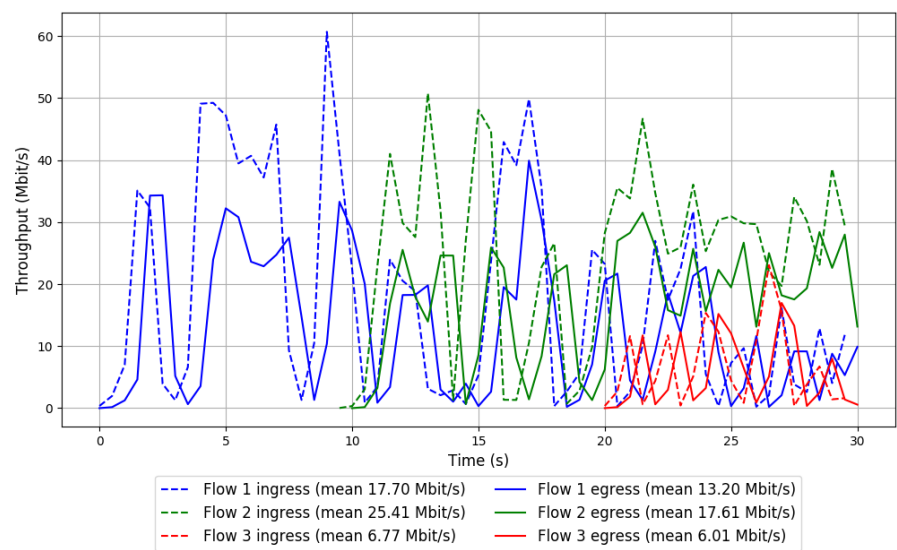


Run 9: Statistics of Verus

Start at: 2018-07-18 13:36:41
End at: 2018-07-18 13:37:11
Local clock offset: -2.545 ms
Remote clock offset: 0.801 ms

Below is generated by plot.py at 2018-07-18 14:22:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 26.83 Mbit/s
95th percentile per-packet one-way delay: 115.115 ms
Loss rate: 27.56%
-- Flow 1:
Average throughput: 13.20 Mbit/s
95th percentile per-packet one-way delay: 108.902 ms
Loss rate: 26.02%
-- Flow 2:
Average throughput: 17.61 Mbit/s
95th percentile per-packet one-way delay: 115.955 ms
Loss rate: 31.15%
-- Flow 3:
Average throughput: 6.01 Mbit/s
95th percentile per-packet one-way delay: 133.546 ms
Loss rate: 12.57%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-07-18 14:08:46

End at: 2018-07-18 14:09:16

Local clock offset: -2.192 ms

Remote clock offset: 0.412 ms

Below is generated by plot.py at 2018-07-18 14:22:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 25.51 Mbit/s

95th percentile per-packet one-way delay: 113.508 ms

Loss rate: 48.38%

-- Flow 1:

Average throughput: 18.64 Mbit/s

95th percentile per-packet one-way delay: 102.848 ms

Loss rate: 54.69%

-- Flow 2:

Average throughput: 7.60 Mbit/s

95th percentile per-packet one-way delay: 141.666 ms

Loss rate: 13.93%

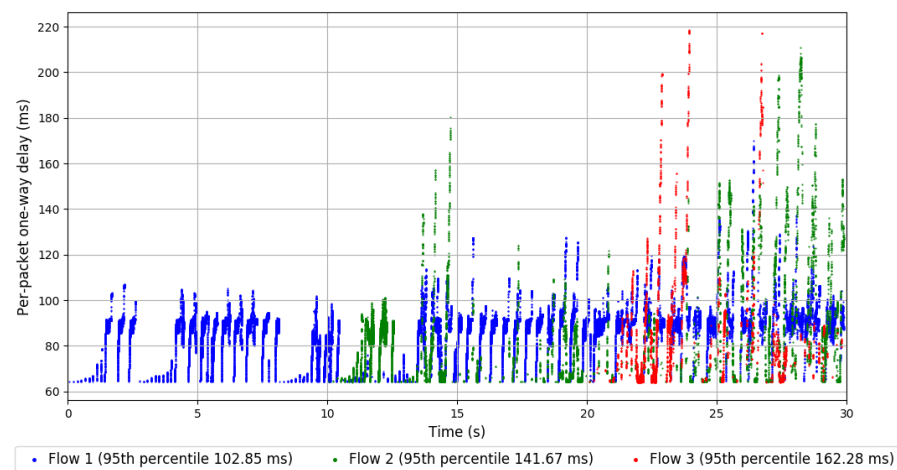
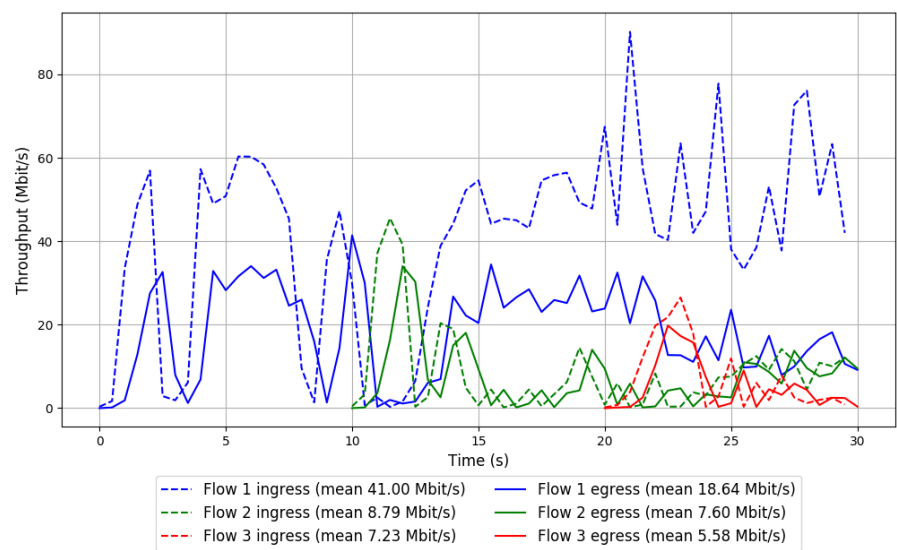
-- Flow 3:

Average throughput: 5.58 Mbit/s

95th percentile per-packet one-way delay: 162.280 ms

Loss rate: 24.28%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-07-18 09:18:06

End at: 2018-07-18 09:18:36

Local clock offset: 6.794 ms

Remote clock offset: 0.61 ms

Below is generated by plot.py at 2018-07-18 14:23:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 39.25 Mbit/s

95th percentile per-packet one-way delay: 91.896 ms

Loss rate: 15.20%

-- Flow 1:

Average throughput: 37.60 Mbit/s

95th percentile per-packet one-way delay: 91.782 ms

Loss rate: 15.45%

-- Flow 2:

Average throughput: 9.73 Mbit/s

95th percentile per-packet one-way delay: 119.407 ms

Loss rate: 9.79%

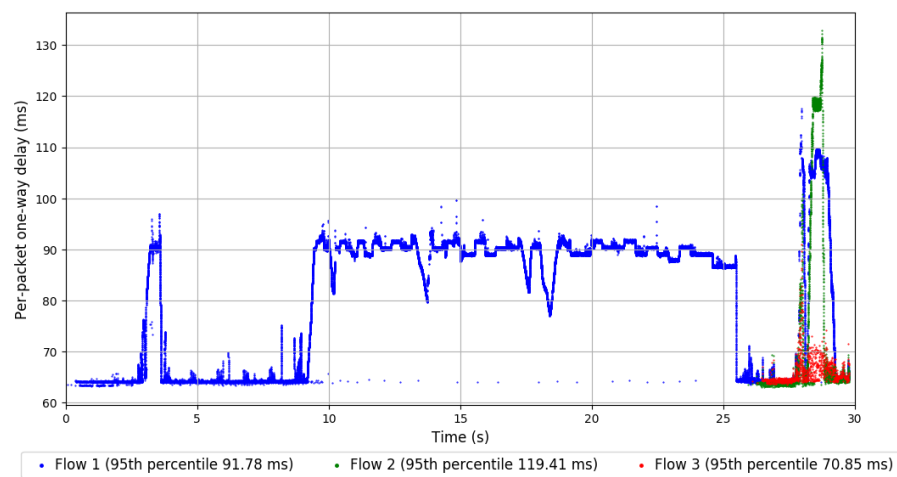
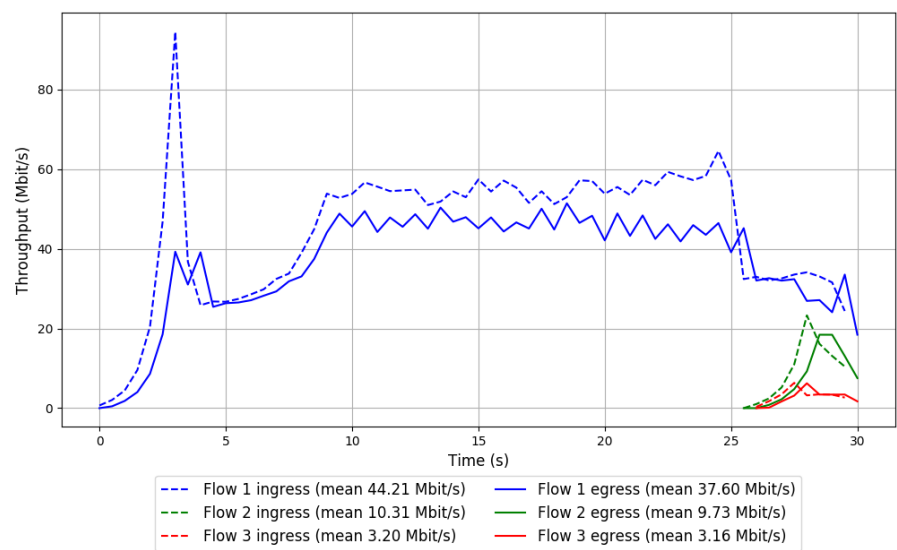
-- Flow 3:

Average throughput: 3.16 Mbit/s

95th percentile per-packet one-way delay: 70.853 ms

Loss rate: 5.97%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

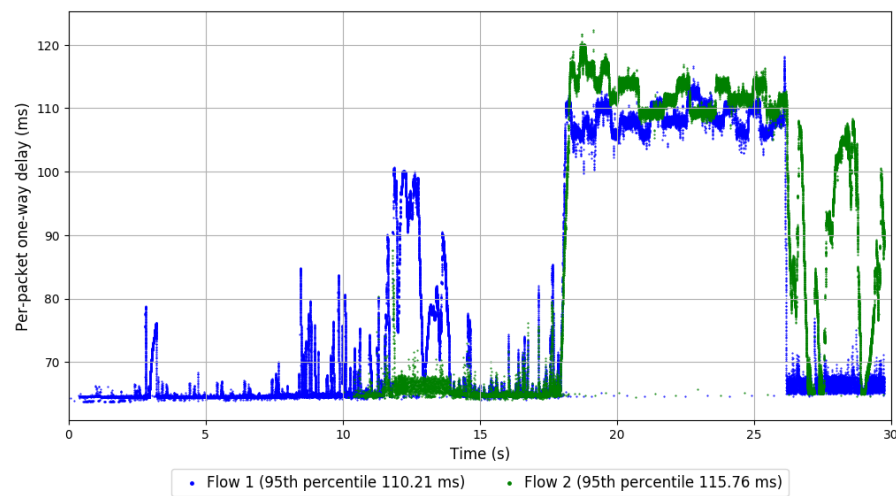
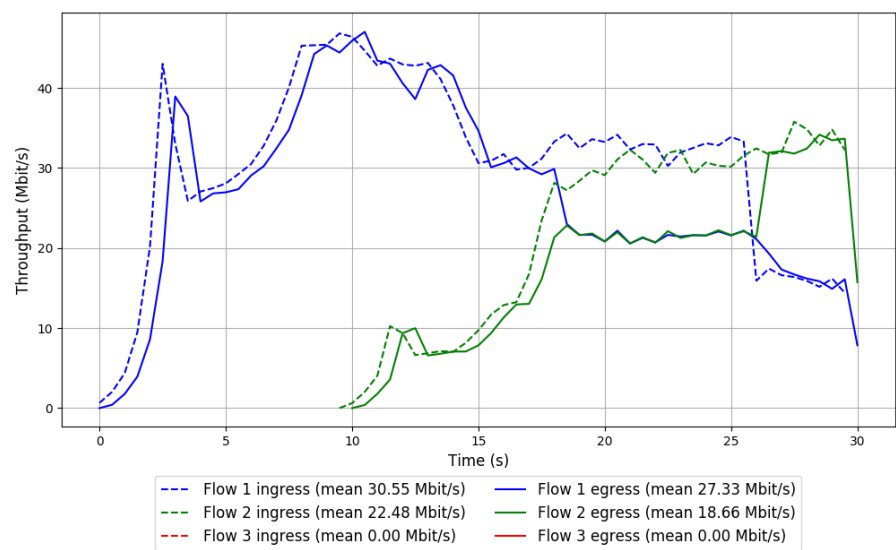
Start at: 2018-07-18 09:47:07

End at: 2018-07-18 09:47:37

Local clock offset: 3.527 ms

Remote clock offset: 1.425 ms

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-07-18 10:15:06

End at: 2018-07-18 10:15:36

Local clock offset: -0.399 ms

Remote clock offset: 1.814 ms

Below is generated by plot.py at 2018-07-18 14:23:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 42.23 Mbit/s

95th percentile per-packet one-way delay: 92.931 ms

Loss rate: 11.27%

-- Flow 1:

Average throughput: 33.13 Mbit/s

95th percentile per-packet one-way delay: 93.307 ms

Loss rate: 13.19%

-- Flow 2:

Average throughput: 15.99 Mbit/s

95th percentile per-packet one-way delay: 82.488 ms

Loss rate: 3.09%

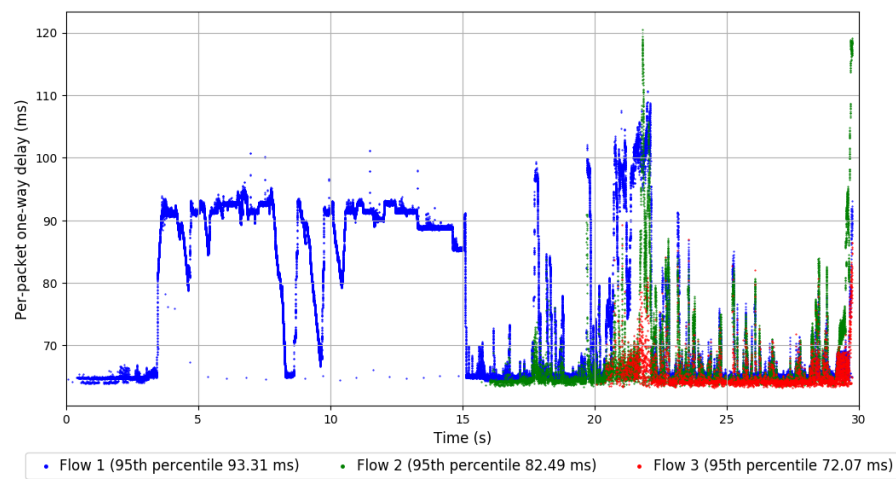
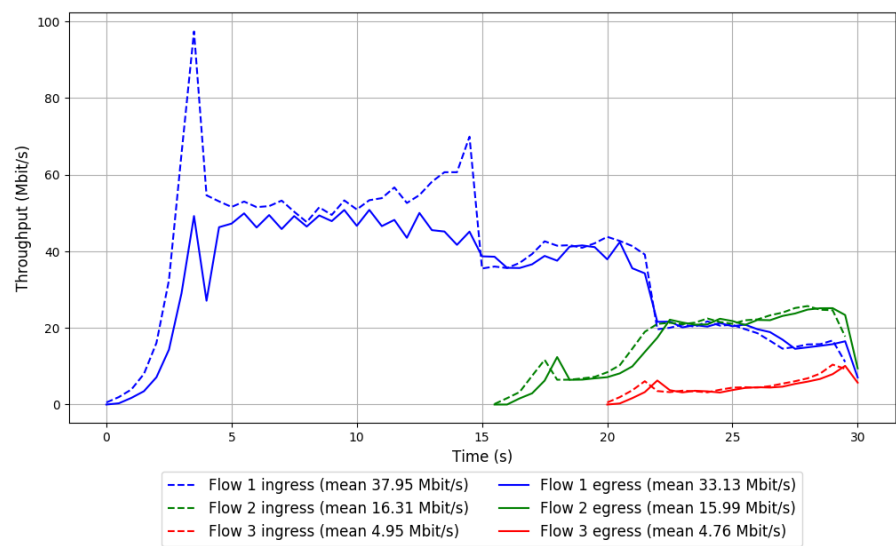
-- Flow 3:

Average throughput: 4.76 Mbit/s

95th percentile per-packet one-way delay: 72.066 ms

Loss rate: 5.57%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-07-18 10:46:10

End at: 2018-07-18 10:46:40

Local clock offset: 1.804 ms

Remote clock offset: 1.978 ms

Below is generated by plot.py at 2018-07-18 14:23:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 36.34 Mbit/s

95th percentile per-packet one-way delay: 88.077 ms

Loss rate: 5.66%

-- Flow 1:

Average throughput: 24.94 Mbit/s

95th percentile per-packet one-way delay: 88.223 ms

Loss rate: 7.09%

-- Flow 2:

Average throughput: 14.76 Mbit/s

95th percentile per-packet one-way delay: 75.573 ms

Loss rate: 2.11%

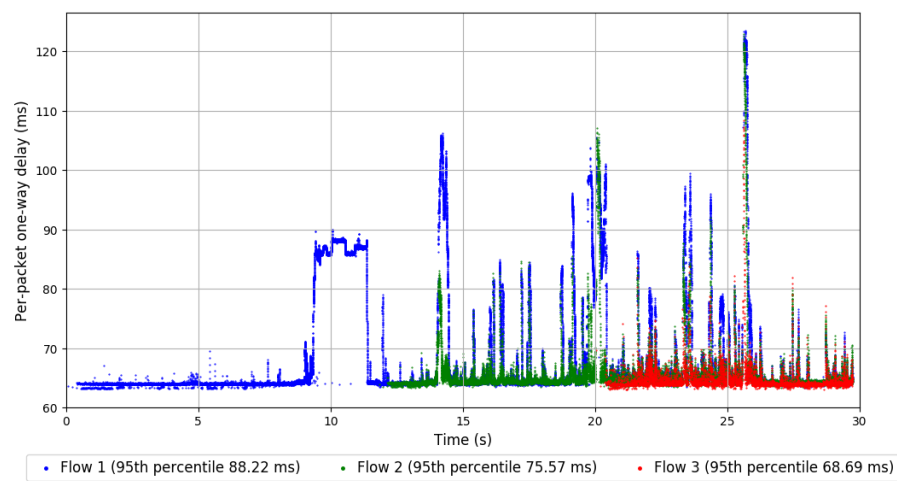
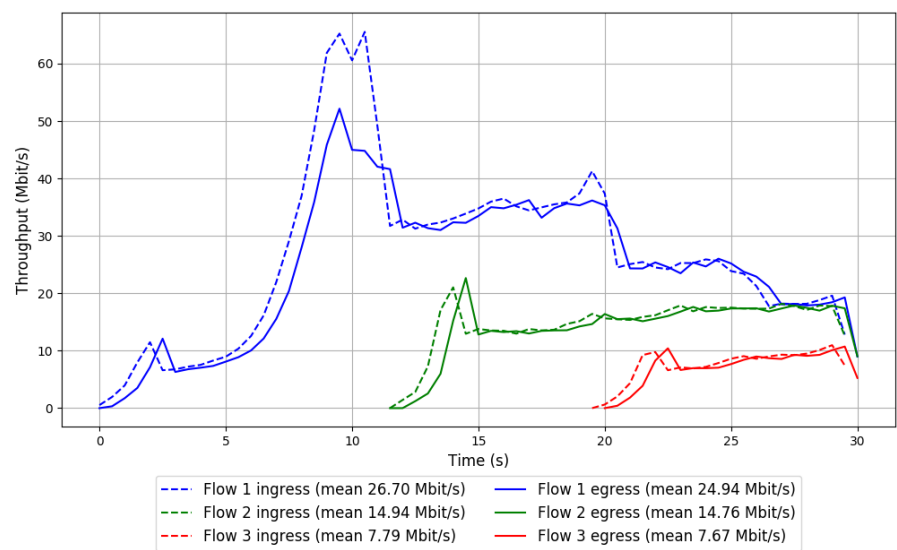
-- Flow 3:

Average throughput: 7.67 Mbit/s

95th percentile per-packet one-way delay: 68.693 ms

Loss rate: 3.22%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-07-18 11:17:47

End at: 2018-07-18 11:18:17

Local clock offset: 6.574 ms

Remote clock offset: 1.896 ms

Below is generated by plot.py at 2018-07-18 14:23:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 32.10 Mbit/s

95th percentile per-packet one-way delay: 111.920 ms

Loss rate: 16.59%

-- Flow 1:

Average throughput: 25.24 Mbit/s

95th percentile per-packet one-way delay: 106.087 ms

Loss rate: 19.23%

-- Flow 2:

Average throughput: 9.18 Mbit/s

95th percentile per-packet one-way delay: 125.237 ms

Loss rate: 5.45%

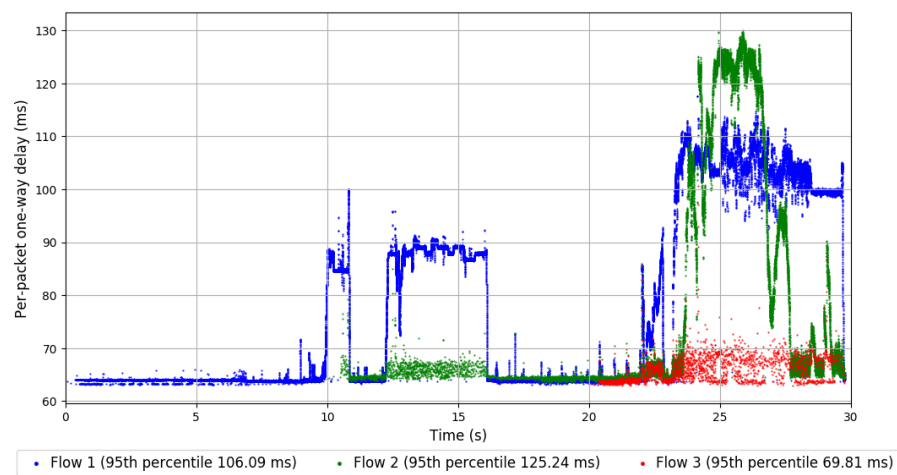
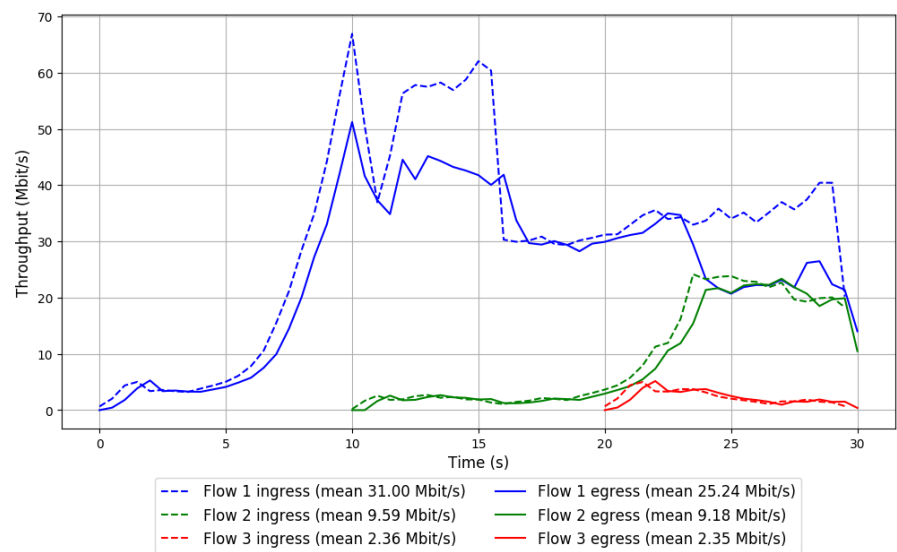
-- Flow 3:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 69.813 ms

Loss rate: 2.60%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-07-18 11:49:23

End at: 2018-07-18 11:49:53

Local clock offset: 5.765 ms

Remote clock offset: 1.605 ms

Below is generated by plot.py at 2018-07-18 14:23:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 40.99 Mbit/s

95th percentile per-packet one-way delay: 109.979 ms

Loss rate: 7.49%

-- Flow 1:

Average throughput: 27.99 Mbit/s

95th percentile per-packet one-way delay: 105.299 ms

Loss rate: 8.50%

-- Flow 2:

Average throughput: 15.17 Mbit/s

95th percentile per-packet one-way delay: 126.945 ms

Loss rate: 4.46%

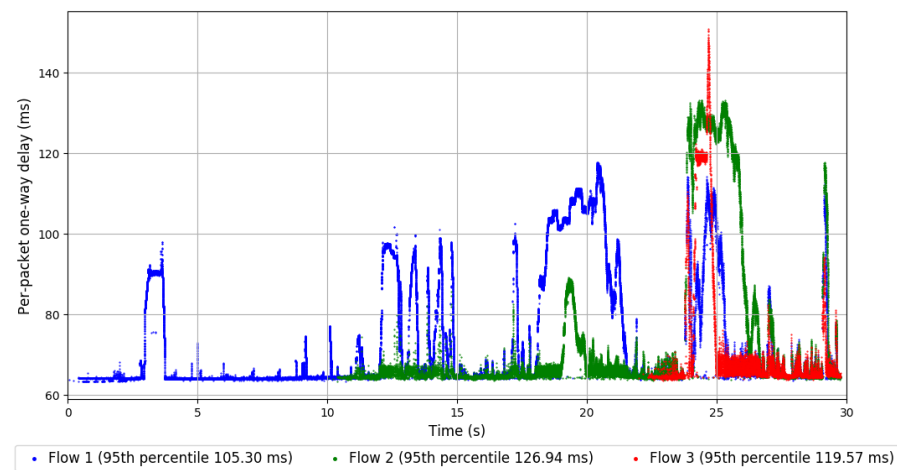
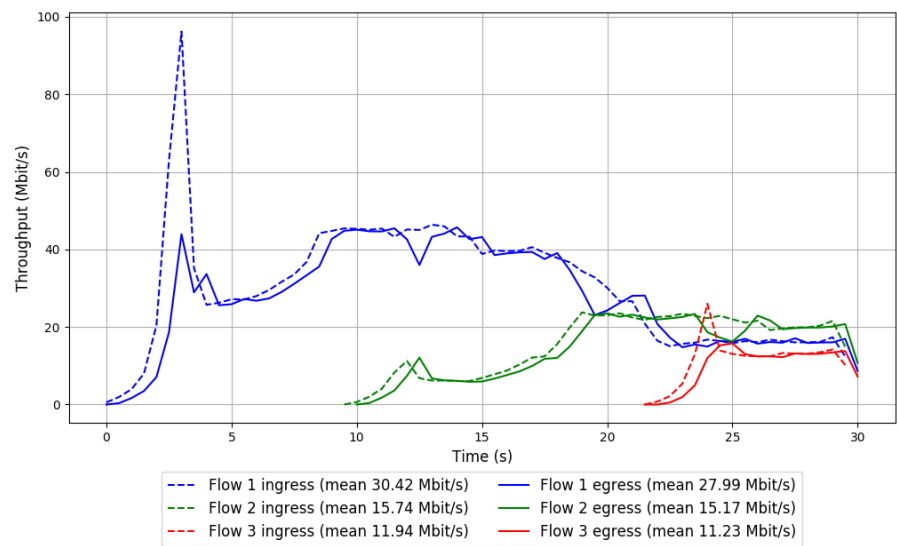
-- Flow 3:

Average throughput: 11.23 Mbit/s

95th percentile per-packet one-way delay: 119.570 ms

Loss rate: 7.85%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-07-18 12:21:21

End at: 2018-07-18 12:21:51

Local clock offset: 5.402 ms

Remote clock offset: 1.424 ms

Below is generated by plot.py at 2018-07-18 14:23:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 37.03 Mbit/s

95th percentile per-packet one-way delay: 119.599 ms

Loss rate: 8.89%

-- Flow 1:

Average throughput: 24.50 Mbit/s

95th percentile per-packet one-way delay: 101.152 ms

Loss rate: 10.28%

-- Flow 2:

Average throughput: 17.73 Mbit/s

95th percentile per-packet one-way delay: 125.607 ms

Loss rate: 4.89%

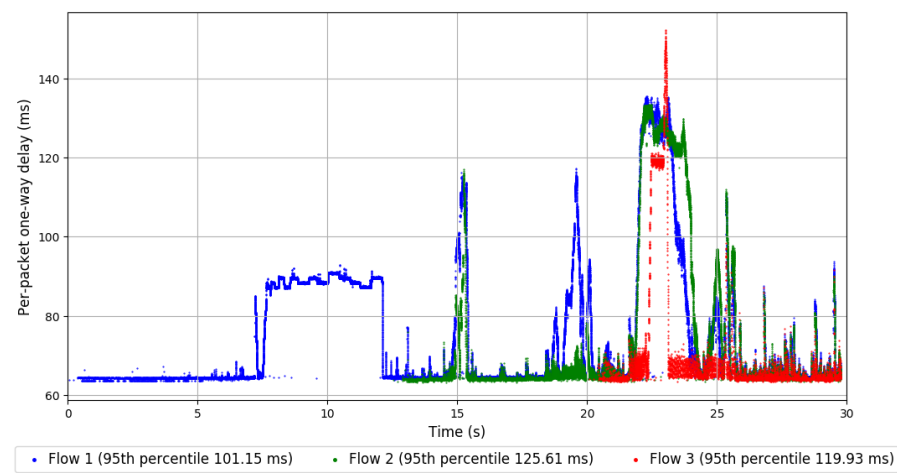
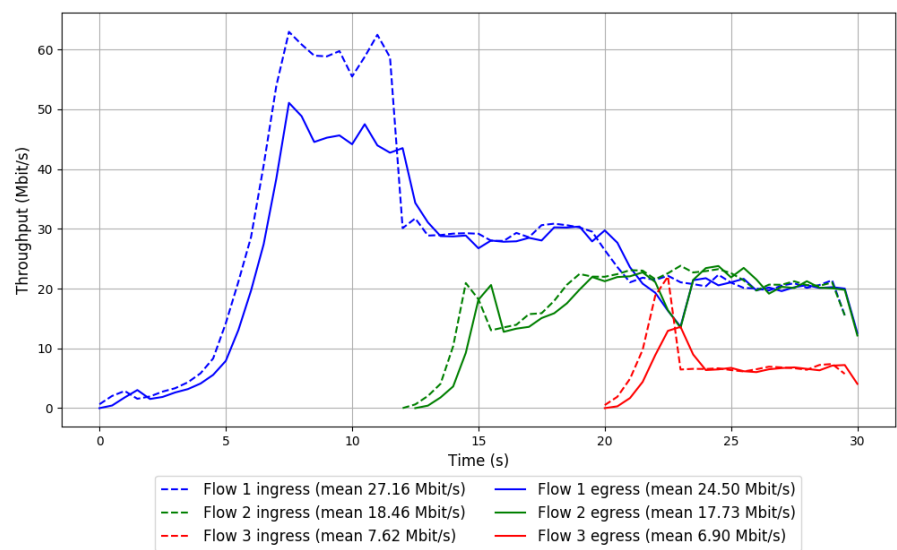
-- Flow 3:

Average throughput: 6.90 Mbit/s

95th percentile per-packet one-way delay: 119.927 ms

Loss rate: 10.99%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-07-18 12:54:06

End at: 2018-07-18 12:54:36

Local clock offset: 7.136 ms

Remote clock offset: 1.342 ms

Below is generated by plot.py at 2018-07-18 14:23:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 39.60 Mbit/s

95th percentile per-packet one-way delay: 96.785 ms

Loss rate: 6.70%

-- Flow 1:

Average throughput: 30.99 Mbit/s

95th percentile per-packet one-way delay: 98.014 ms

Loss rate: 7.78%

-- Flow 2:

Average throughput: 9.47 Mbit/s

95th percentile per-packet one-way delay: 81.604 ms

Loss rate: 2.44%

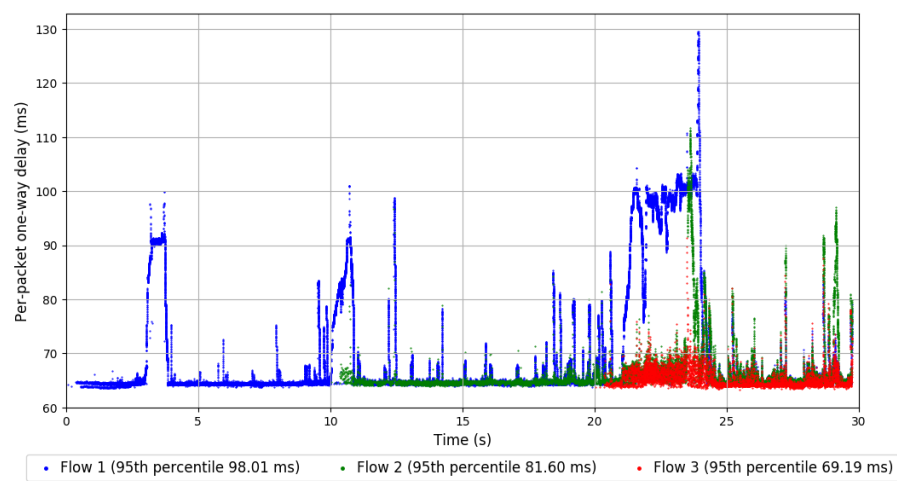
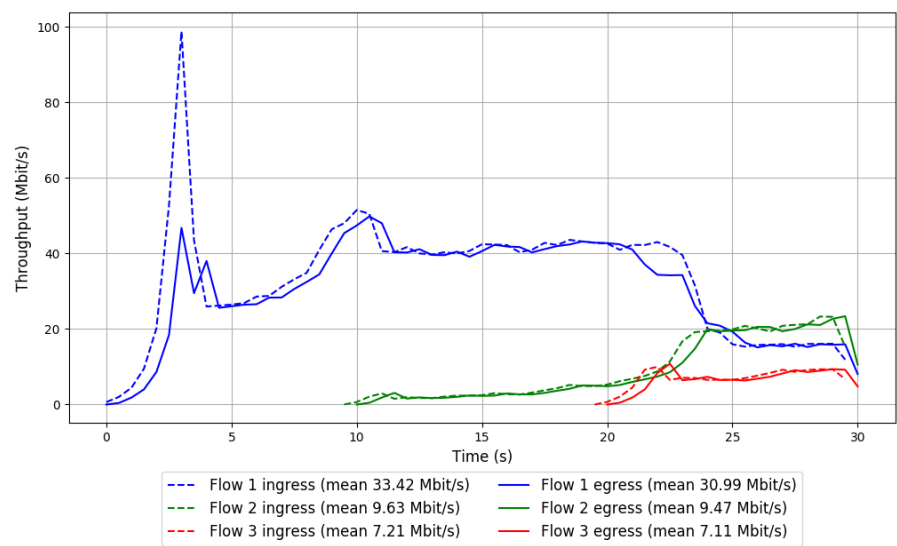
-- Flow 3:

Average throughput: 7.11 Mbit/s

95th percentile per-packet one-way delay: 69.187 ms

Loss rate: 3.02%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-07-18 13:24:36

End at: 2018-07-18 13:25:06

Local clock offset: -0.303 ms

Remote clock offset: 1.094 ms

Below is generated by plot.py at 2018-07-18 14:23:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 39.32 Mbit/s

95th percentile per-packet one-way delay: 99.752 ms

Loss rate: 9.70%

-- Flow 1:

Average throughput: 28.52 Mbit/s

95th percentile per-packet one-way delay: 98.914 ms

Loss rate: 12.20%

-- Flow 2:

Average throughput: 13.66 Mbit/s

95th percentile per-packet one-way delay: 102.265 ms

Loss rate: 1.93%

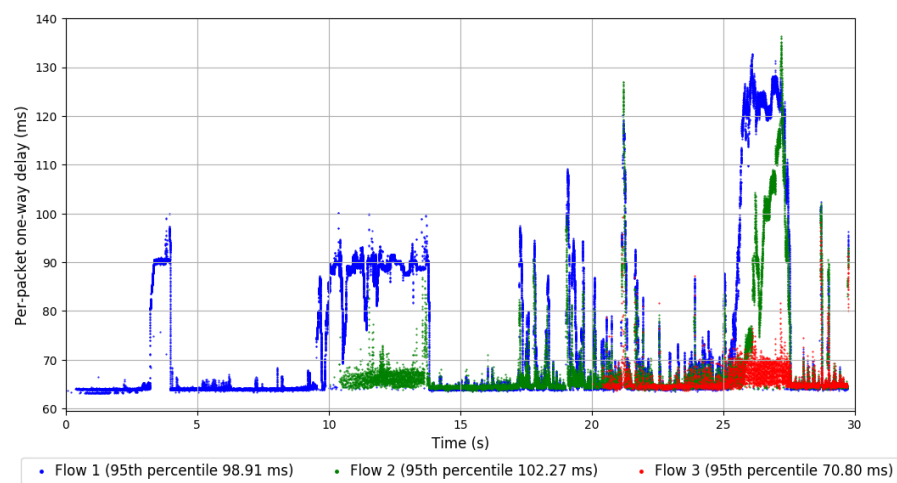
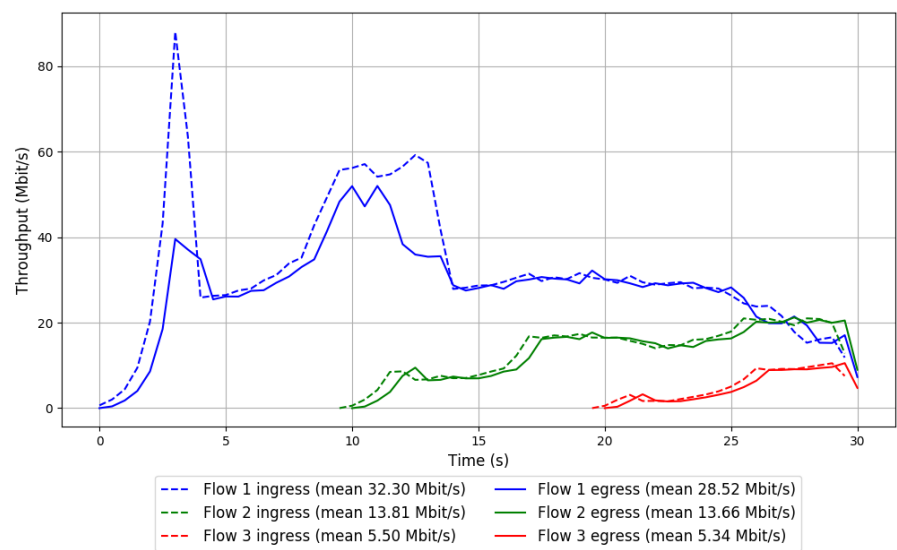
-- Flow 3:

Average throughput: 5.34 Mbit/s

95th percentile per-packet one-way delay: 70.802 ms

Loss rate: 4.62%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-07-18 13:55:39

End at: 2018-07-18 13:56:09

Local clock offset: -1.813 ms

Remote clock offset: 0.59 ms

Below is generated by plot.py at 2018-07-18 14:23:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.36 Mbit/s

95th percentile per-packet one-way delay: 94.631 ms

Loss rate: 9.67%

-- Flow 1:

Average throughput: 37.29 Mbit/s

95th percentile per-packet one-way delay: 94.834 ms

Loss rate: 10.43%

-- Flow 2:

Average throughput: 4.75 Mbit/s

95th percentile per-packet one-way delay: 68.524 ms

Loss rate: 1.62%

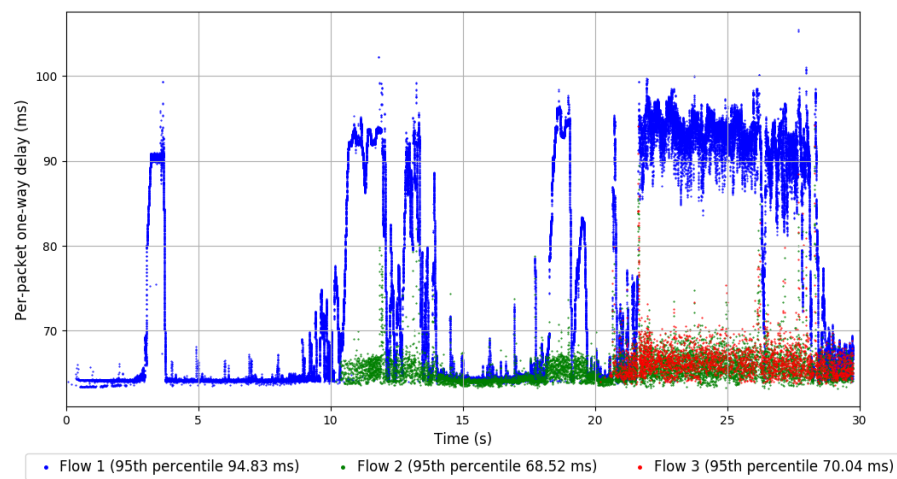
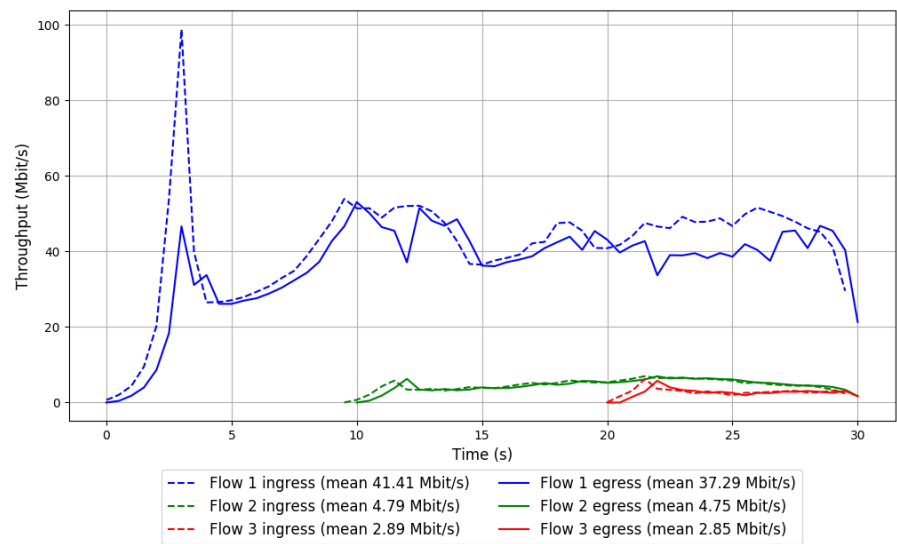
-- Flow 3:

Average throughput: 2.85 Mbit/s

95th percentile per-packet one-way delay: 70.041 ms

Loss rate: 3.14%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-07-18 09:11:12

End at: 2018-07-18 09:11:42

Local clock offset: 5.864 ms

Remote clock offset: 0.272 ms

Below is generated by plot.py at 2018-07-18 14:23:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.75 Mbit/s

95th percentile per-packet one-way delay: 65.759 ms

Loss rate: 1.21%

-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 65.513 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 1.16 Mbit/s

95th percentile per-packet one-way delay: 65.952 ms

Loss rate: 1.27%

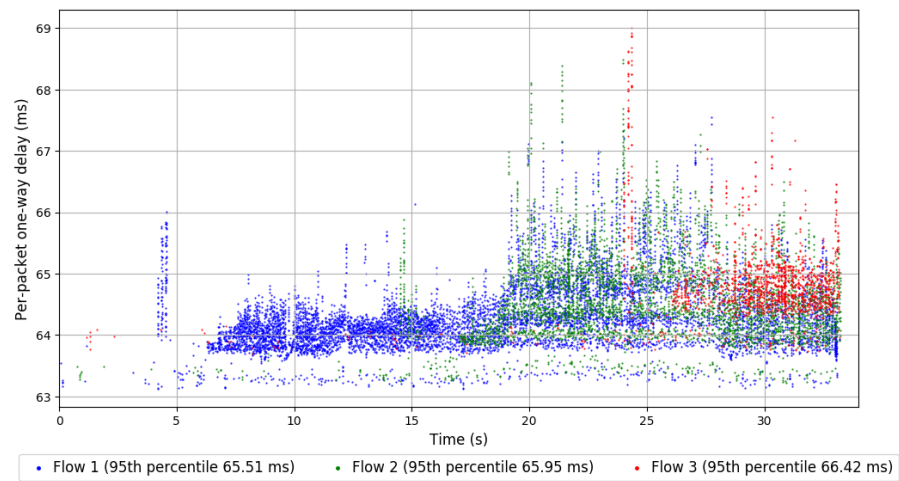
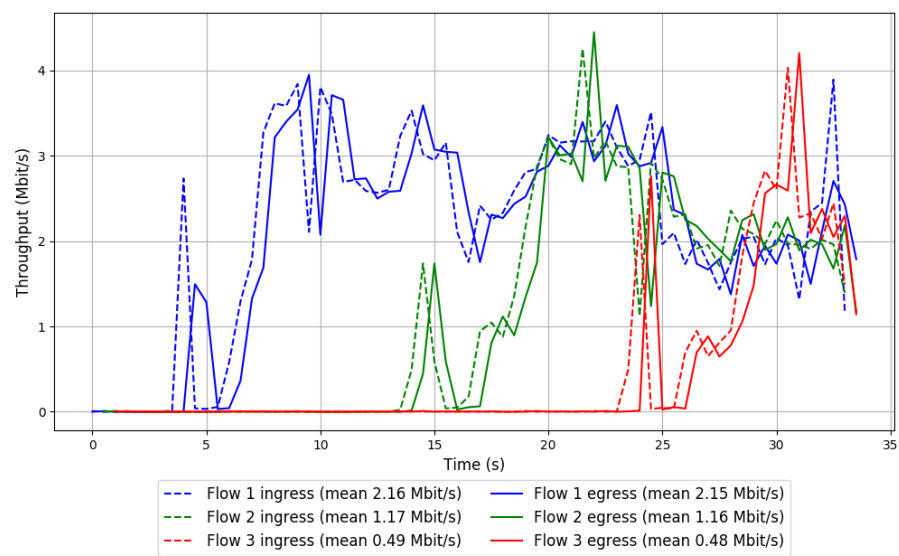
-- Flow 3:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 66.418 ms

Loss rate: 2.77%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-07-18 09:39:56

End at: 2018-07-18 09:40:26

Local clock offset: 7.911 ms

Remote clock offset: 1.083 ms

Below is generated by plot.py at 2018-07-18 14:23:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.94 Mbit/s

95th percentile per-packet one-way delay: 66.193 ms

Loss rate: 1.16%

-- Flow 1:

Average throughput: 2.20 Mbit/s

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

Loss rate: 0.77%

-- Flow 2:

Average throughput: 1.25 Mbit/s

95th percentile per-packet one-way delay: 66.129 ms

Loss rate: 1.16%

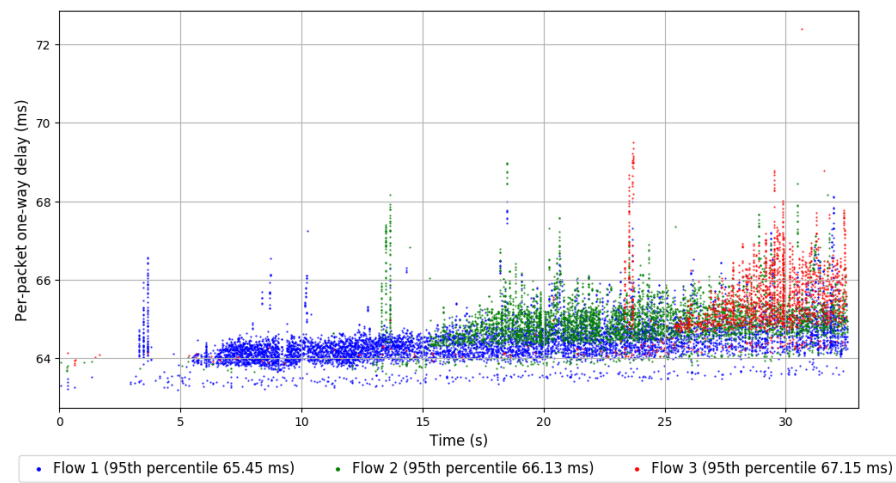
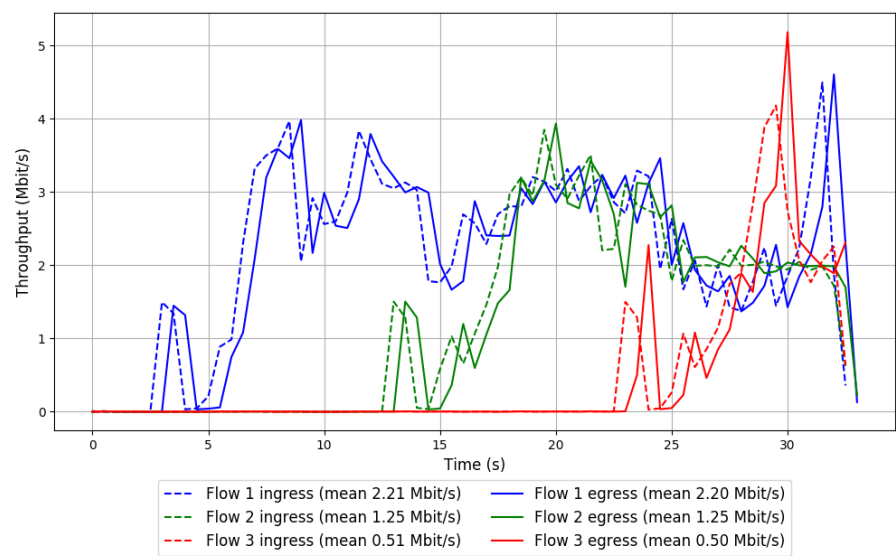
-- Flow 3:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 67.153 ms

Loss rate: 2.89%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-07-18 10:08:06

End at: 2018-07-18 10:08:36

Local clock offset: -1.003 ms

Remote clock offset: 1.705 ms

Below is generated by plot.py at 2018-07-18 14:23:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.72 Mbit/s

95th percentile per-packet one-way delay: 65.510 ms

Loss rate: 1.53%

-- Flow 1:

Average throughput: 2.04 Mbit/s

95th percentile per-packet one-way delay: 65.469 ms

Loss rate: 1.34%

-- Flow 2:

Average throughput: 1.27 Mbit/s

95th percentile per-packet one-way delay: 65.436 ms

Loss rate: 1.46%

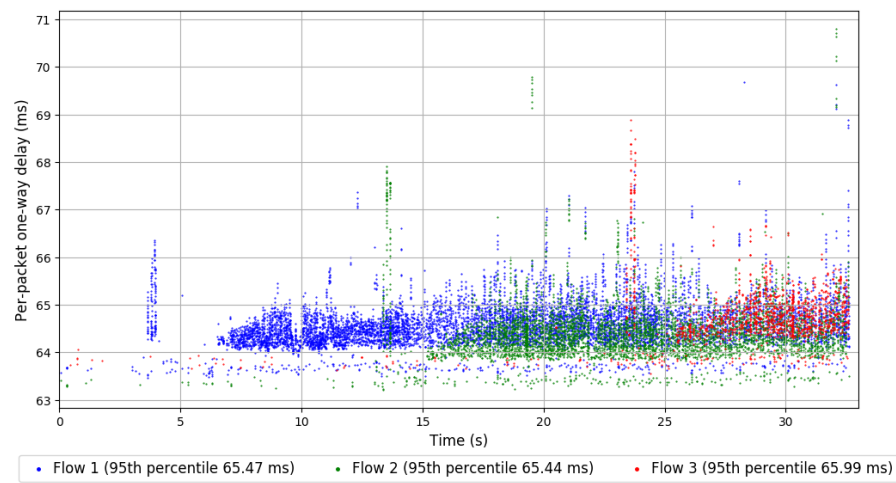
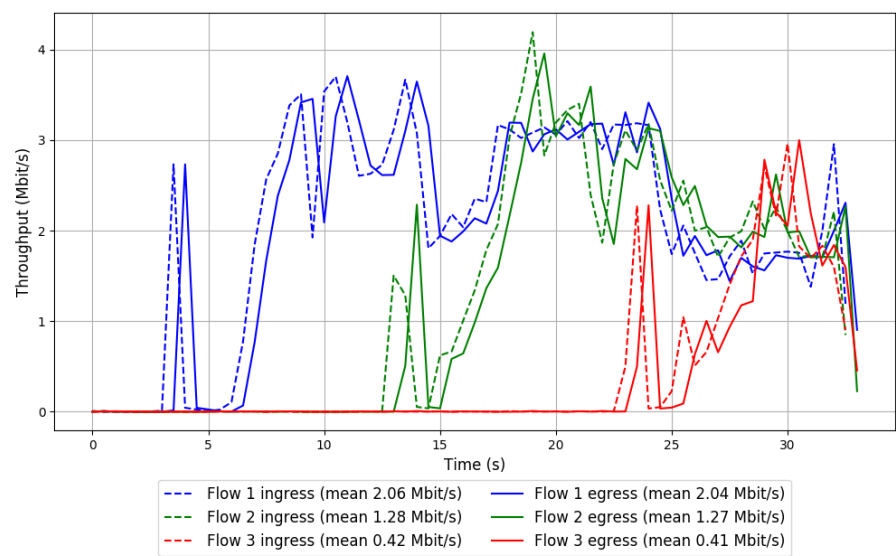
-- Flow 3:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 65.991 ms

Loss rate: 2.72%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-07-18 10:38:10

End at: 2018-07-18 10:38:40

Local clock offset: 0.97 ms

Remote clock offset: 1.913 ms

Below is generated by plot.py at 2018-07-18 14:23:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.89 Mbit/s

95th percentile per-packet one-way delay: 65.780 ms

Loss rate: 1.68%

-- Flow 1:

Average throughput: 2.22 Mbit/s

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

Loss rate: 1.50%

-- Flow 2:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 66.129 ms

Loss rate: 1.55%

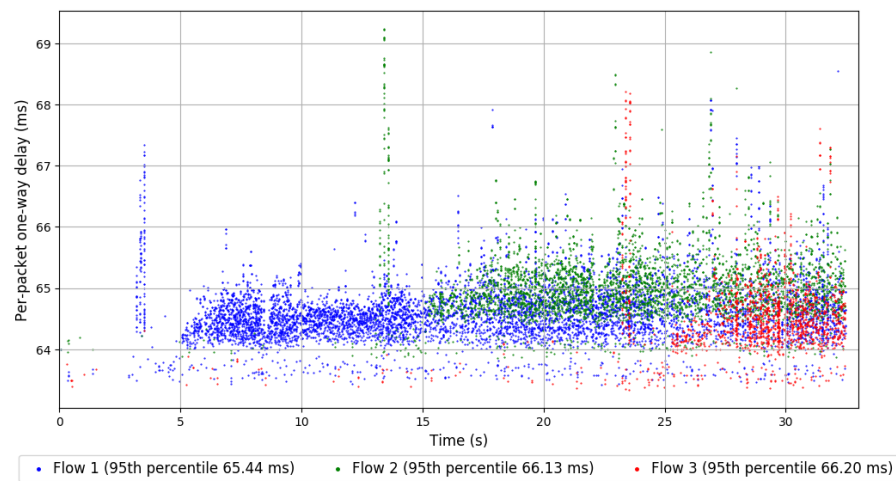
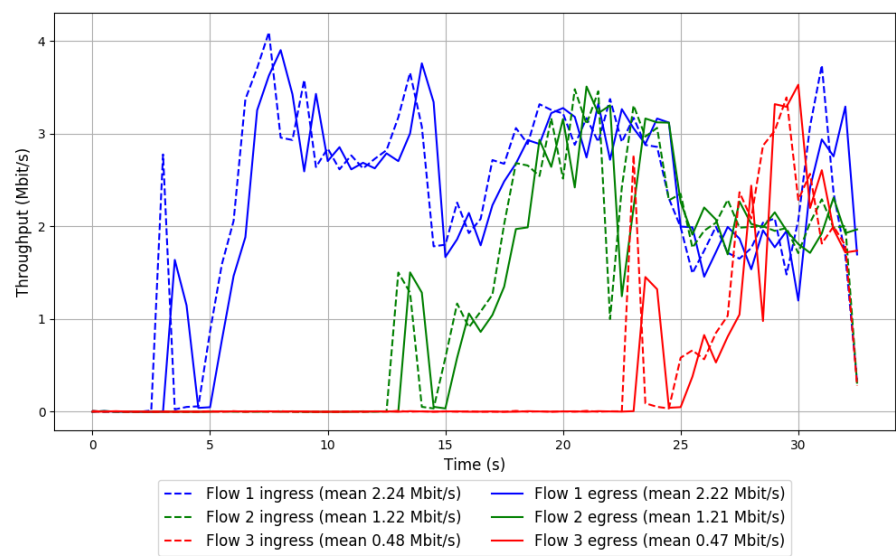
-- Flow 3:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 66.196 ms

Loss rate: 2.86%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-07-18 11:09:29

End at: 2018-07-18 11:09:59

Local clock offset: 4.12 ms

Remote clock offset: 1.895 ms

Below is generated by plot.py at 2018-07-18 14:23:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.95 Mbit/s

95th percentile per-packet one-way delay: 65.844 ms

Loss rate: 1.79%

-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 65.754 ms

Loss rate: 1.34%

-- Flow 2:

Average throughput: 1.32 Mbit/s

95th percentile per-packet one-way delay: 65.881 ms

Loss rate: 2.19%

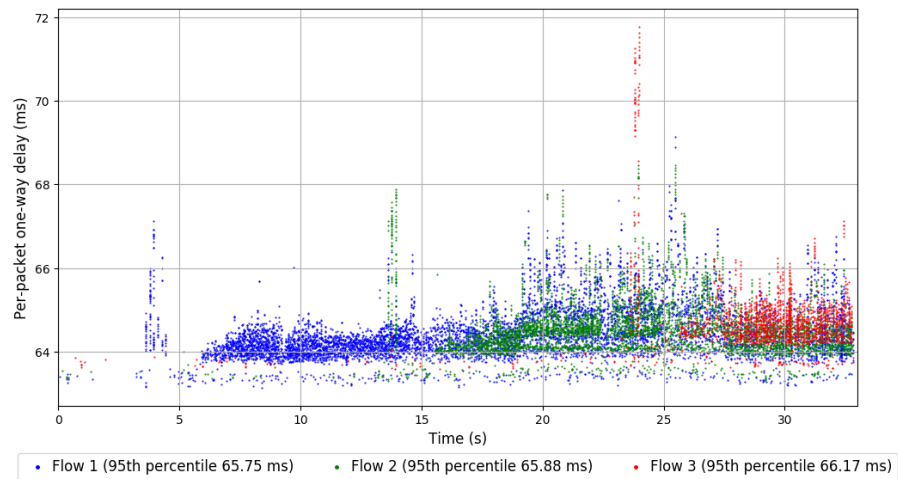
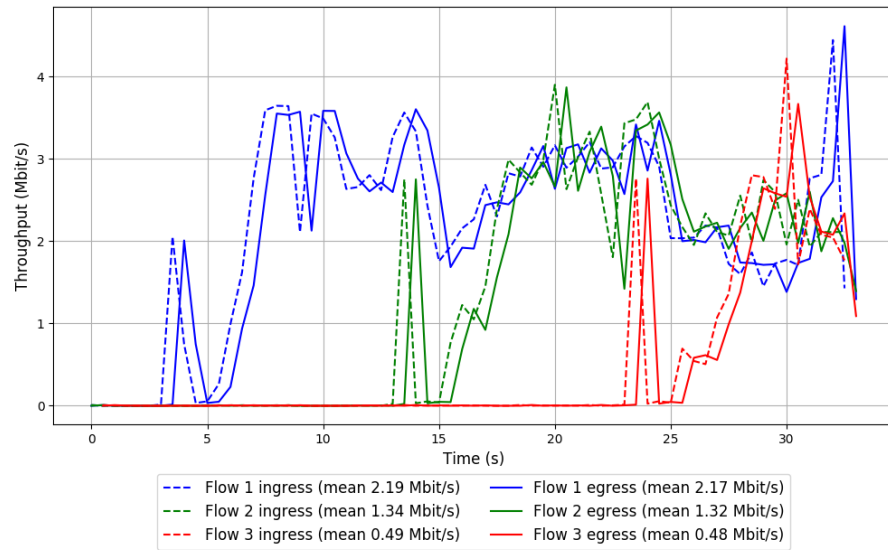
-- Flow 3:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 66.174 ms

Loss rate: 2.70%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-07-18 11:42:06

End at: 2018-07-18 11:42:36

Local clock offset: 9.022 ms

Remote clock offset: 1.561 ms

Below is generated by plot.py at 2018-07-18 14:23:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.85 Mbit/s

95th percentile per-packet one-way delay: 66.319 ms

Loss rate: 1.76%

-- Flow 1:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 66.018 ms

Loss rate: 1.82%

-- Flow 2:

Average throughput: 1.26 Mbit/s

95th percentile per-packet one-way delay: 66.586 ms

Loss rate: 1.30%

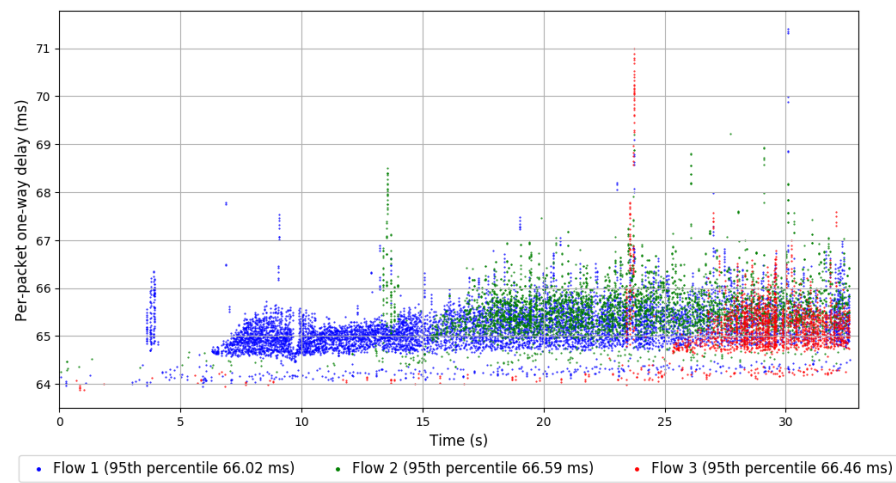
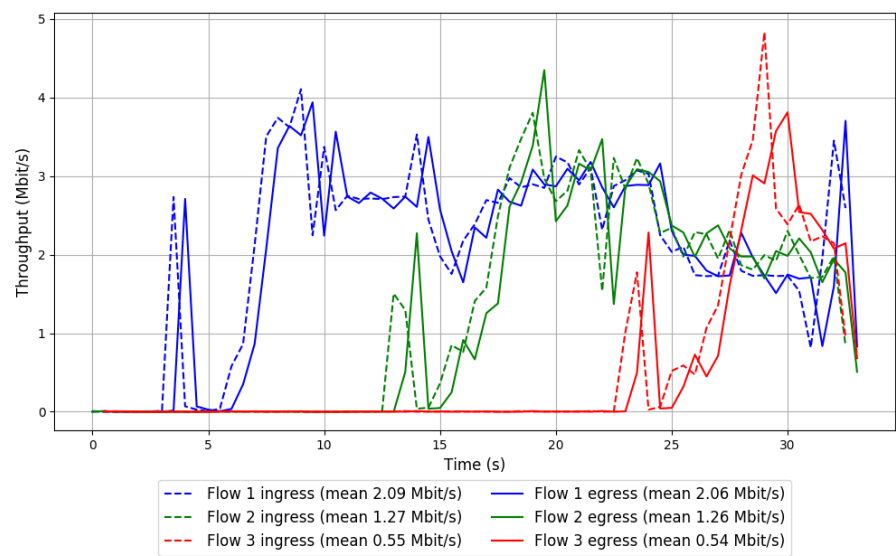
-- Flow 3:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 66.456 ms

Loss rate: 2.56%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-07-18 12:12:54

End at: 2018-07-18 12:13:24

Local clock offset: 3.996 ms

Remote clock offset: 1.348 ms

Below is generated by plot.py at 2018-07-18 14:23:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.79 Mbit/s

95th percentile per-packet one-way delay: 65.436 ms

Loss rate: 1.74%

-- Flow 1:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 65.374 ms

Loss rate: 1.77%

-- Flow 2:

Average throughput: 1.23 Mbit/s

95th percentile per-packet one-way delay: 65.355 ms

Loss rate: 1.15%

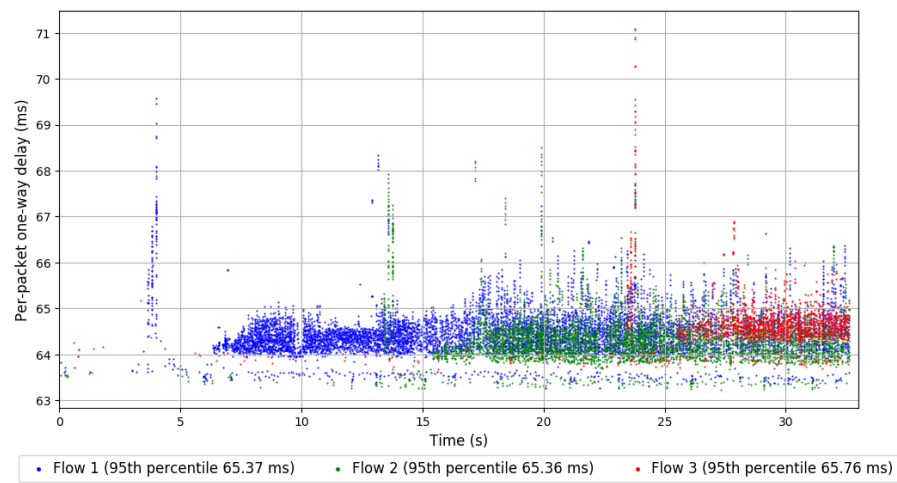
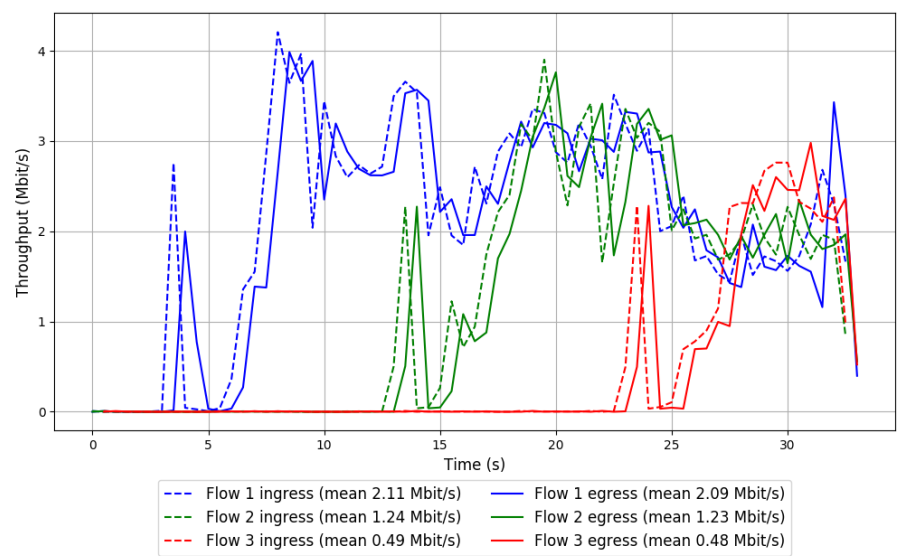
-- Flow 3:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 65.758 ms

Loss rate: 3.11%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-07-18 12:46:28

End at: 2018-07-18 12:46:58

Local clock offset: 6.602 ms

Remote clock offset: 1.201 ms

Below is generated by plot.py at 2018-07-18 14:23:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.92 Mbit/s

95th percentile per-packet one-way delay: 66.281 ms

Loss rate: 1.41%

-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 65.848 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 1.18 Mbit/s

95th percentile per-packet one-way delay: 66.516 ms

Loss rate: 1.65%

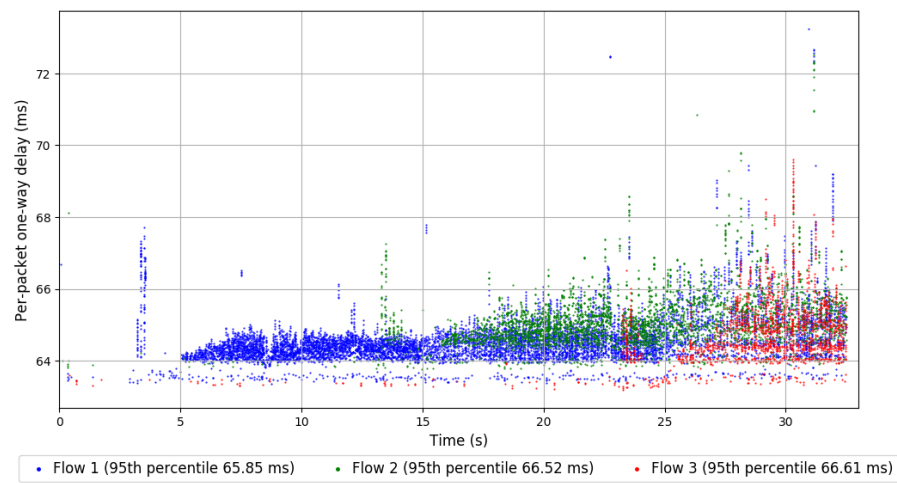
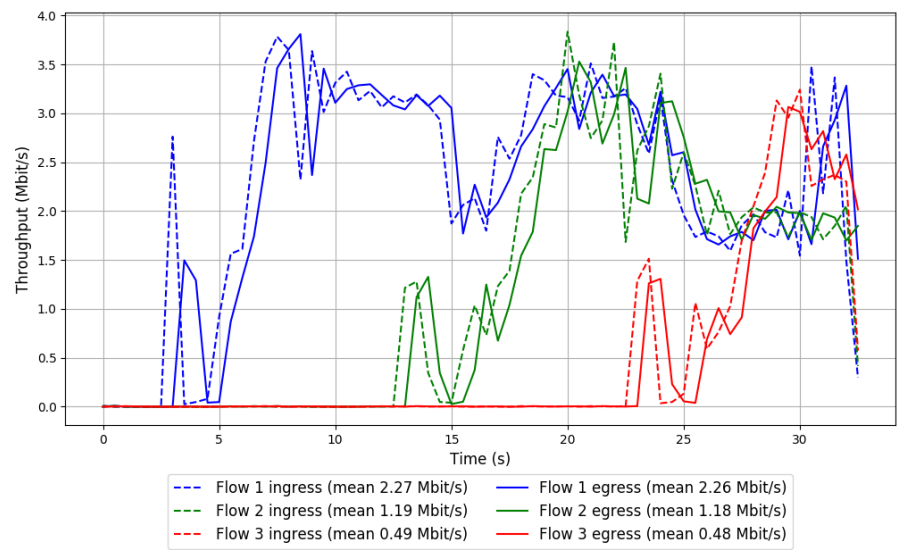
-- Flow 3:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 66.605 ms

Loss rate: 3.44%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-07-18 13:17:03

End at: 2018-07-18 13:17:33

Local clock offset: 2.815 ms

Remote clock offset: 0.918 ms

Below is generated by plot.py at 2018-07-18 14:23:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.99 Mbit/s

95th percentile per-packet one-way delay: 66.262 ms

Loss rate: 1.24%

-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 66.150 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 66.060 ms

Loss rate: 1.41%

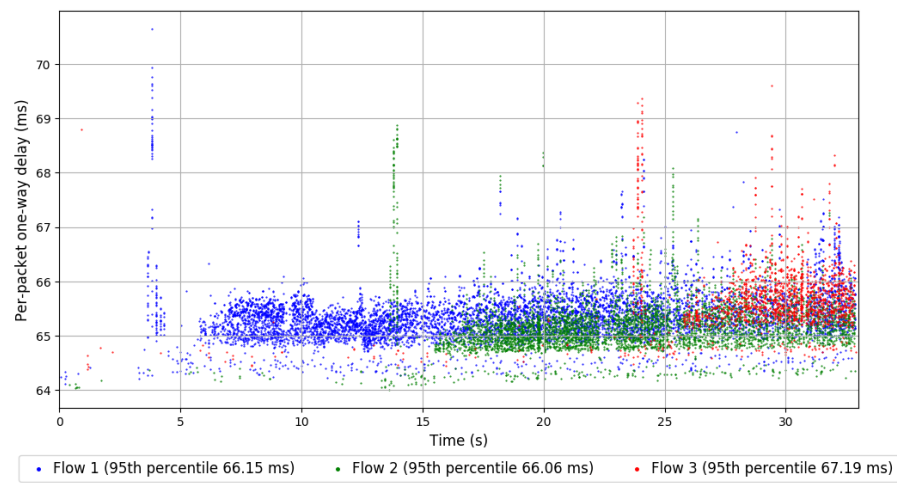
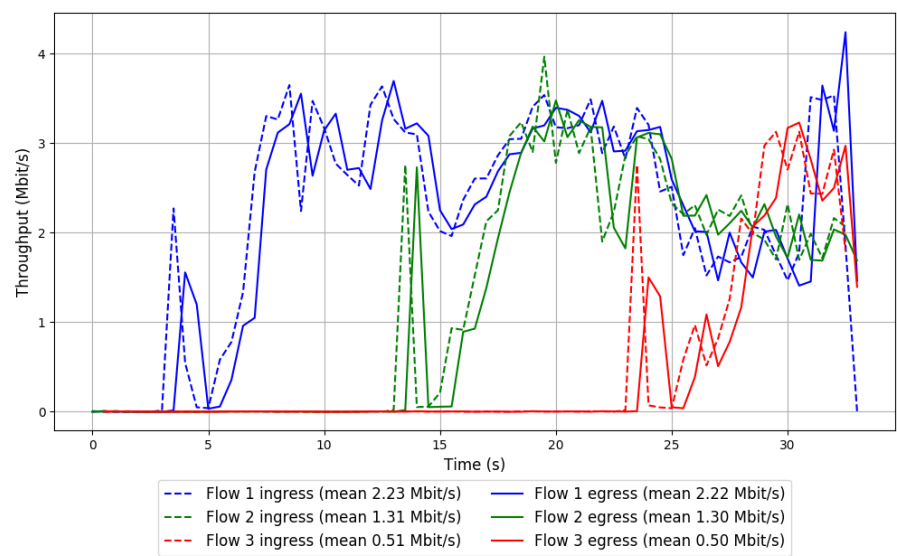
-- Flow 3:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 67.195 ms

Loss rate: 2.59%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-07-18 13:47:50

End at: 2018-07-18 13:48:20

Local clock offset: -2.167 ms

Remote clock offset: 0.609 ms

Below is generated by plot.py at 2018-07-18 14:23:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.86 Mbit/s

95th percentile per-packet one-way delay: 65.960 ms

Loss rate: 1.58%

-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 65.572 ms

Loss rate: 1.10%

-- Flow 2:

Average throughput: 1.26 Mbit/s

95th percentile per-packet one-way delay: 66.386 ms

Loss rate: 1.53%

-- Flow 3:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 65.922 ms

Loss rate: 3.85%

Run 10: Report of WebRTC media — Data Link

