

Pantheon Report

Generated at 2018-07-24 18:39:38 (UTC).

Data path: AWS California 2 Ethernet (*local*) → Mexico Ethernet (*remote*).

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.

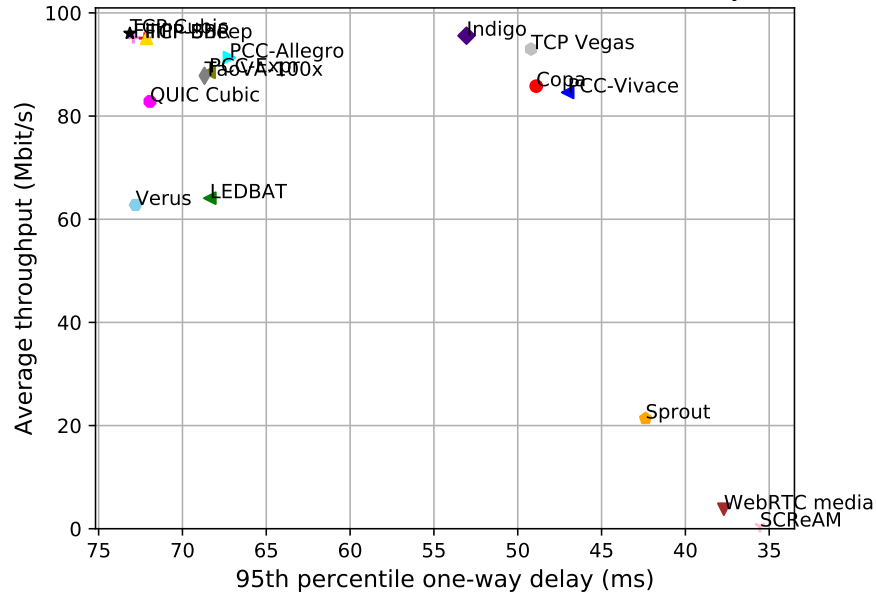
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

NTP offsets were measured against `time.stanford.edu` and have been applied to correct the timestamps in logs.

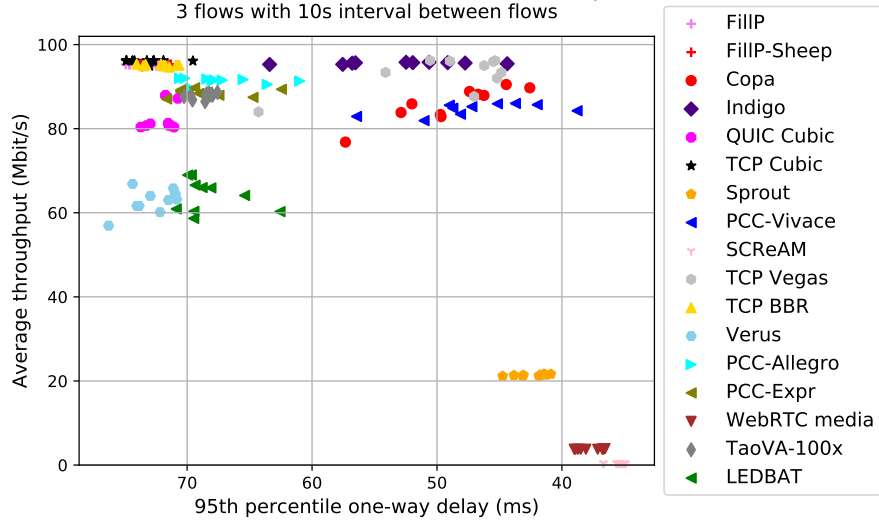
Git summary:

```
branch: master @ 640164b5b17c7c6561fff57729b3b5935d8596ce
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ daed0c84f98531712514b2231f43ec6901114ffe
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf90c077e64d
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-quick @ 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 AWS California 2 to Mexico, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from AWS California 2 to Mexico, 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	62.98	34.10	28.28	71.34	73.05	73.15	7.86	10.70	10.64
Copa	10	64.62	23.05	17.60	50.17	45.82	44.78	0.79	0.13	0.07
TCP Cubic	10	68.99	26.13	29.05	73.25	72.96	71.53	0.79	0.84	0.56
FillP	10	59.78	37.13	32.60	72.51	73.30	73.74	21.87	32.98	36.73
FillP-Sheep	10	58.34	39.91	30.80	70.88	73.26	73.38	14.16	25.61	32.39
Indigo	10	65.40	30.13	31.20	50.29	55.78	59.77	0.07	0.10	0.21
LEDBAT	10	41.39	25.01	18.31	67.61	69.34	63.04	0.13	0.16	0.11
PCC-Allegro	10	81.34	10.28	9.59	66.63	69.80	69.46	2.47	2.69	3.61
PCC-Expr	10	67.07	24.96	14.55	67.93	69.67	69.87	1.68	1.42	1.35
QUIC Cubic	10	59.13	24.47	22.71	71.82	72.03	71.68	2.75	1.30	1.73
SCReAM	10	0.21	0.21	0.22	35.34	35.13	35.23	0.01	0.02	0.00
Sprout	10	10.84	10.71	10.34	42.28	42.26	42.83	0.03	0.00	0.07
TaoVA-100x	10	51.99	38.77	30.20	66.05	69.79	71.47	12.59	22.73	19.61
TCP Vegas	10	67.97	25.42	24.36	48.77	48.49	47.32	0.49	0.11	0.05
Verus	10	38.50	30.11	16.71	72.46	73.15	70.53	40.13	44.80	38.10
PCC-Vivace	10	63.24	25.93	12.41	46.38	47.70	48.76	0.06	0.06	0.02
WebRTC media	10	2.01	1.31	0.48	37.37	37.50	38.66	0.01	0.01	0.01

Run 1: Statistics of TCP BBR

Start at: 2018-07-24 14:31:36

End at: 2018-07-24 14:32:06

Local clock offset: 0.682 ms

Remote clock offset: 4.341 ms

Below is generated by plot.py at 2018-07-24 18:16:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.36 Mbit/s

95th percentile per-packet one-way delay: 74.037 ms

Loss rate: 9.65%

-- Flow 1:

Average throughput: 66.66 Mbit/s

95th percentile per-packet one-way delay: 73.283 ms

Loss rate: 8.71%

-- Flow 2:

Average throughput: 28.19 Mbit/s

95th percentile per-packet one-way delay: 74.730 ms

Loss rate: 12.09%

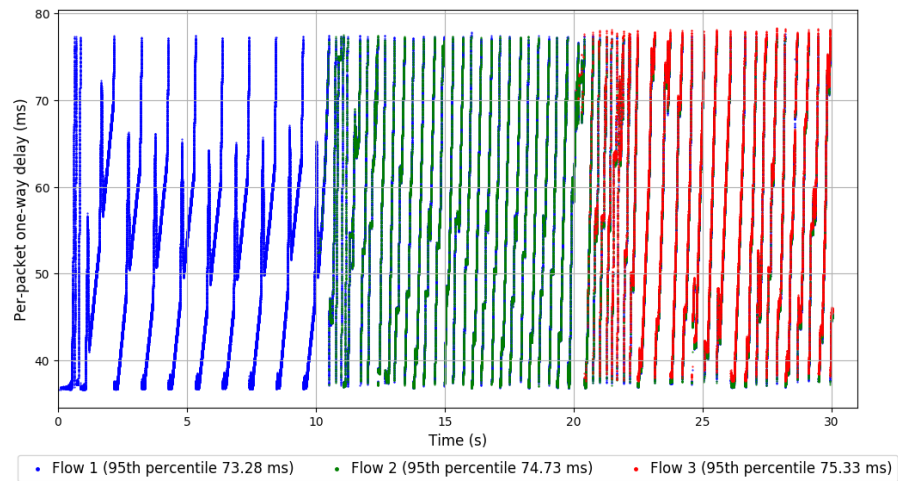
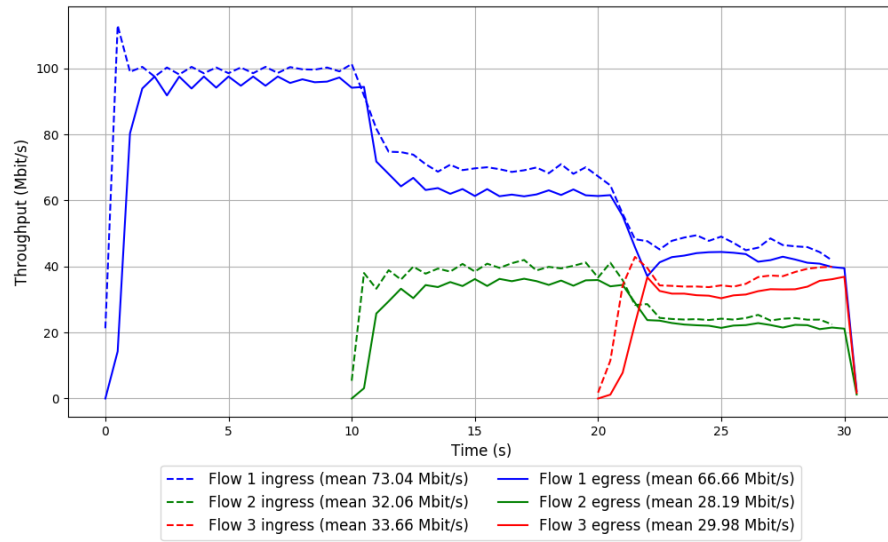
-- Flow 3:

Average throughput: 29.98 Mbit/s

95th percentile per-packet one-way delay: 75.327 ms

Loss rate: 11.19%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-07-24 14:54:37

End at: 2018-07-24 14:55:07

Local clock offset: 4.673 ms

Remote clock offset: 4.656 ms

Below is generated by plot.py at 2018-07-24 18:16:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.96 Mbit/s

95th percentile per-packet one-way delay: 73.500 ms

Loss rate: 8.80%

-- Flow 1:

Average throughput: 65.14 Mbit/s

95th percentile per-packet one-way delay: 72.276 ms

Loss rate: 7.85%

-- Flow 2:

Average throughput: 25.36 Mbit/s

95th percentile per-packet one-way delay: 75.144 ms

Loss rate: 10.53%

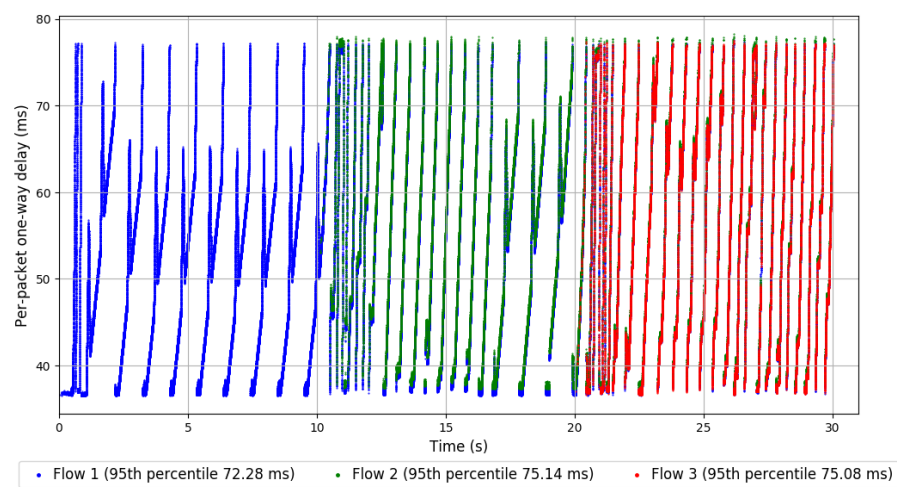
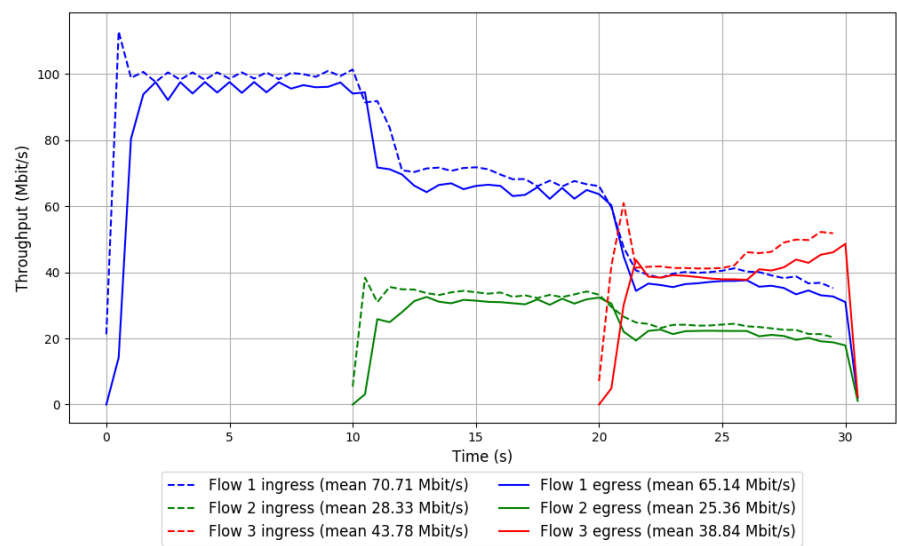
-- Flow 3:

Average throughput: 38.84 Mbit/s

95th percentile per-packet one-way delay: 75.075 ms

Loss rate: 11.19%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-07-24 15:17:50

End at: 2018-07-24 15:18:20

Local clock offset: 1.027 ms

Remote clock offset: 4.221 ms

Below is generated by plot.py at 2018-07-24 18:16:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.27 Mbit/s

95th percentile per-packet one-way delay: 73.327 ms

Loss rate: 9.04%

-- Flow 1:

Average throughput: 64.82 Mbit/s

95th percentile per-packet one-way delay: 72.490 ms

Loss rate: 8.10%

-- Flow 2:

Average throughput: 33.42 Mbit/s

95th percentile per-packet one-way delay: 74.638 ms

Loss rate: 10.94%

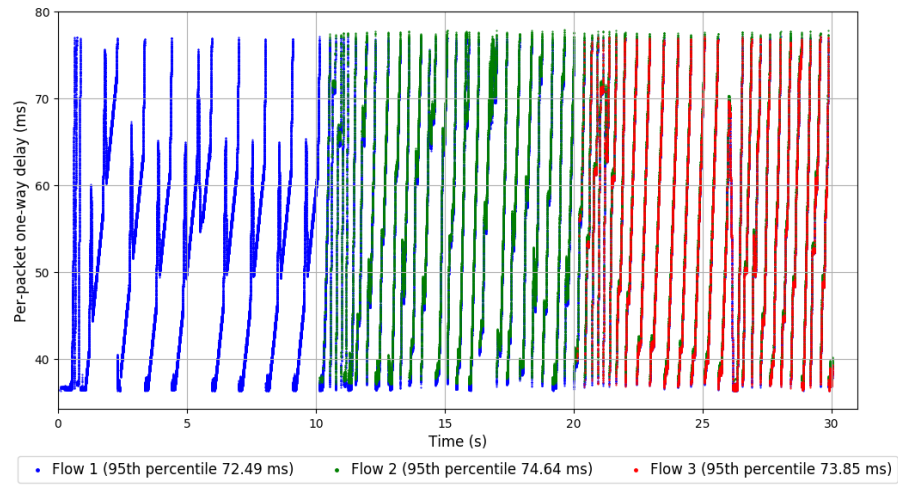
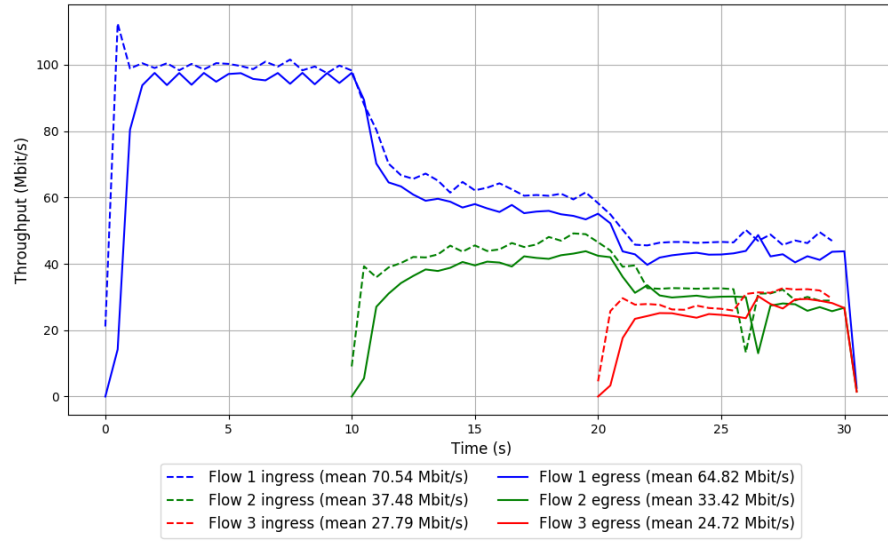
-- Flow 3:

Average throughput: 24.72 Mbit/s

95th percentile per-packet one-way delay: 73.851 ms

Loss rate: 11.08%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-07-24 15:40:48

End at: 2018-07-24 15:41:18

Local clock offset: -0.171 ms

Remote clock offset: 1.967 ms

Below is generated by plot.py at 2018-07-24 18:16:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.12 Mbit/s

95th percentile per-packet one-way delay: 70.648 ms

Loss rate: 7.55%

-- Flow 1:

Average throughput: 63.54 Mbit/s

95th percentile per-packet one-way delay: 70.268 ms

Loss rate: 6.80%

-- Flow 2:

Average throughput: 35.51 Mbit/s

95th percentile per-packet one-way delay: 70.931 ms

Loss rate: 8.70%

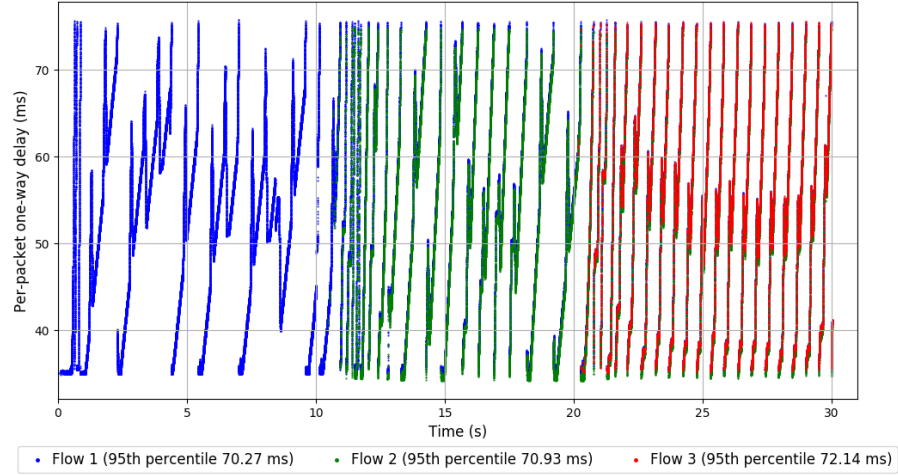
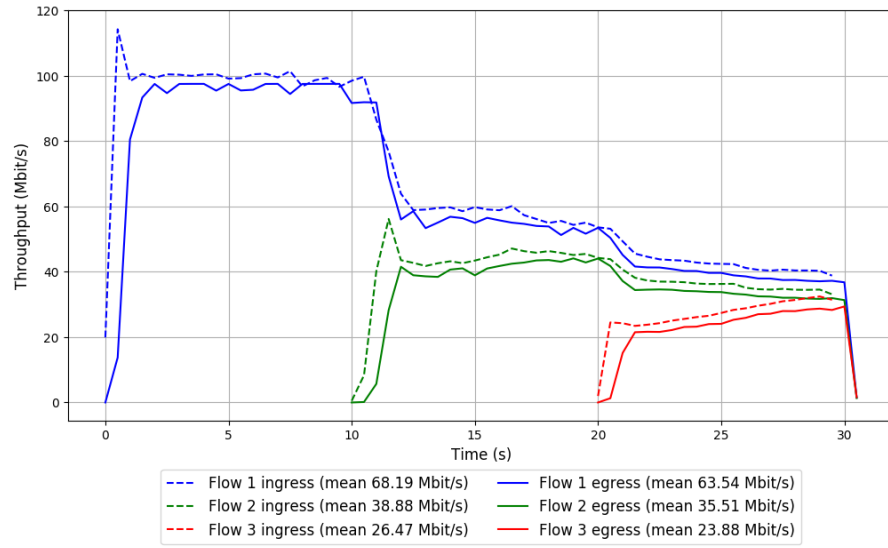
-- Flow 3:

Average throughput: 23.88 Mbit/s

95th percentile per-packet one-way delay: 72.139 ms

Loss rate: 9.95%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-07-24 16:03:51

End at: 2018-07-24 16:04:21

Local clock offset: -0.326 ms

Remote clock offset: 2.46 ms

Below is generated by plot.py at 2018-07-24 18:16:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.95 Mbit/s

95th percentile per-packet one-way delay: 71.875 ms

Loss rate: 9.37%

-- Flow 1:

Average throughput: 61.93 Mbit/s

95th percentile per-packet one-way delay: 71.332 ms

Loss rate: 8.59%

-- Flow 2:

Average throughput: 46.17 Mbit/s

95th percentile per-packet one-way delay: 72.651 ms

Loss rate: 10.95%

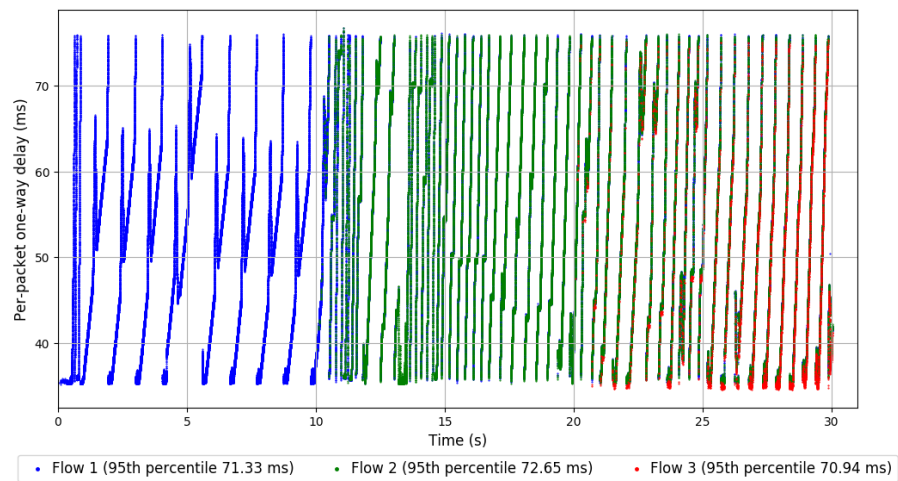
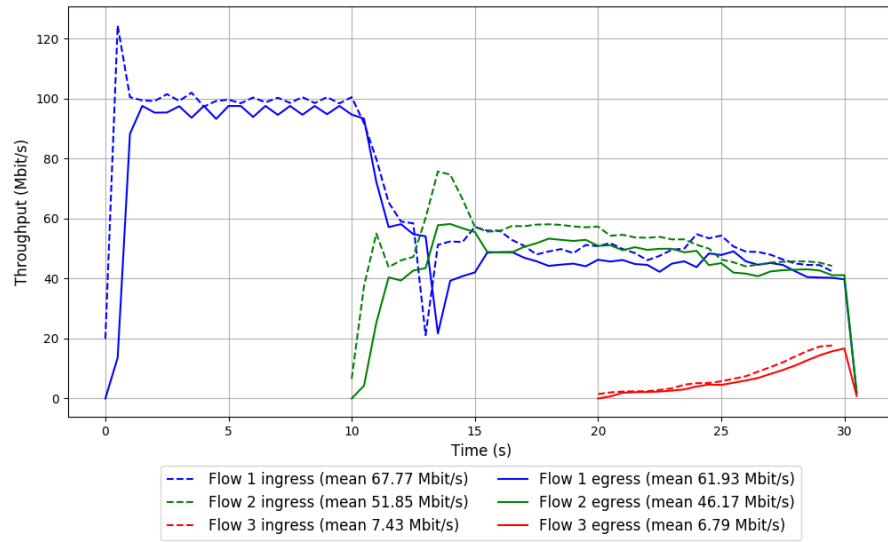
-- Flow 3:

Average throughput: 6.79 Mbit/s

95th percentile per-packet one-way delay: 70.936 ms

Loss rate: 8.59%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-07-24 16:26:46

End at: 2018-07-24 16:27:16

Local clock offset: 0.882 ms

Remote clock offset: 2.602 ms

Below is generated by plot.py at 2018-07-24 18:16:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.06 Mbit/s

95th percentile per-packet one-way delay: 71.893 ms

Loss rate: 8.83%

-- Flow 1:

Average throughput: 67.10 Mbit/s

95th percentile per-packet one-way delay: 70.915 ms

Loss rate: 7.79%

-- Flow 2:

Average throughput: 27.47 Mbit/s

95th percentile per-packet one-way delay: 73.507 ms

Loss rate: 10.83%

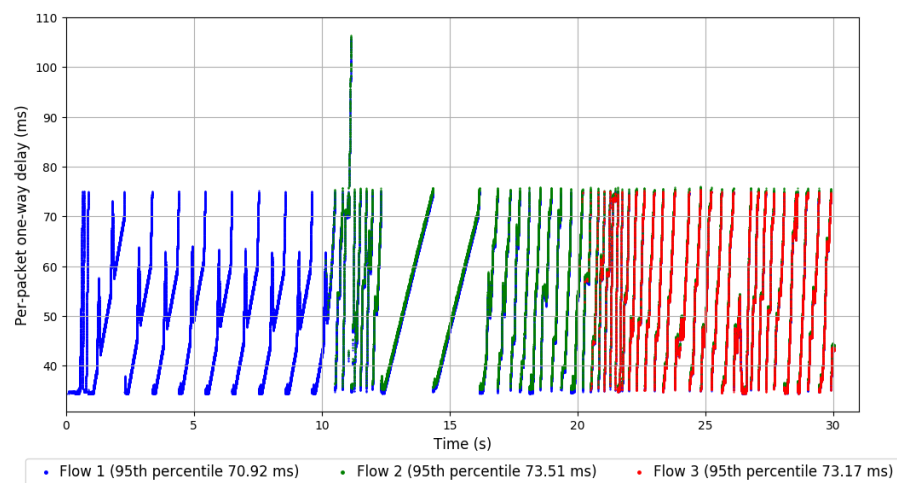
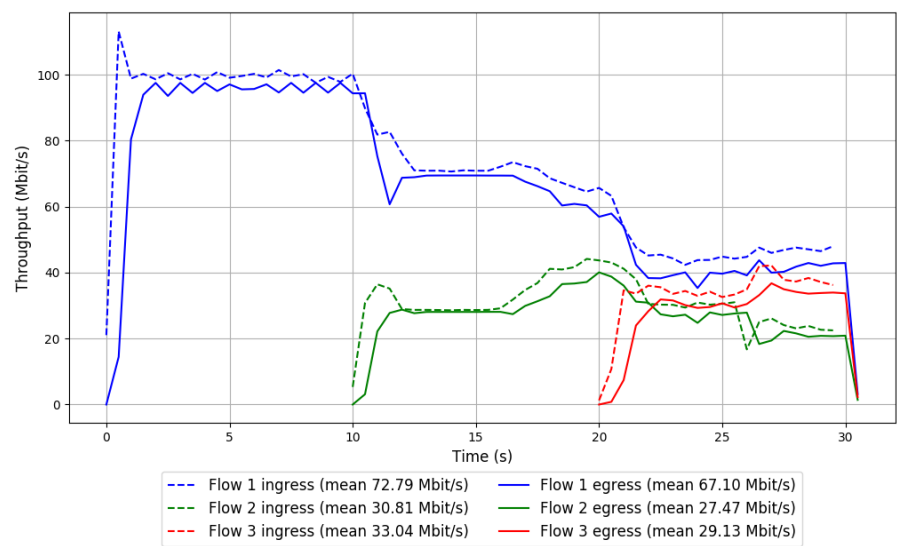
-- Flow 3:

Average throughput: 29.13 Mbit/s

95th percentile per-packet one-way delay: 73.175 ms

Loss rate: 11.98%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-07-24 16:49:45

End at: 2018-07-24 16:50:15

Local clock offset: 0.948 ms

Remote clock offset: 2.407 ms

Below is generated by plot.py at 2018-07-24 18:16:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.10 Mbit/s

95th percentile per-packet one-way delay: 70.862 ms

Loss rate: 6.88%

-- Flow 1:

Average throughput: 66.73 Mbit/s

95th percentile per-packet one-way delay: 69.901 ms

Loss rate: 6.43%

-- Flow 2:

Average throughput: 25.38 Mbit/s

95th percentile per-packet one-way delay: 71.392 ms

Loss rate: 7.82%

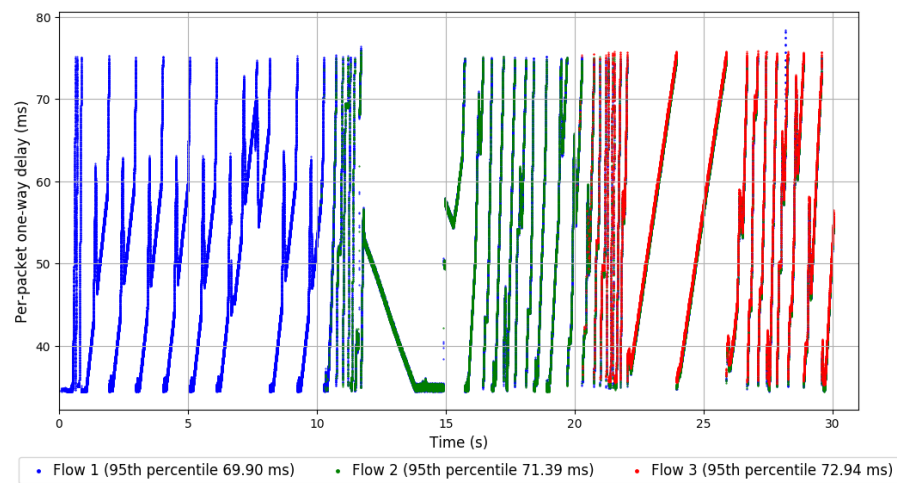
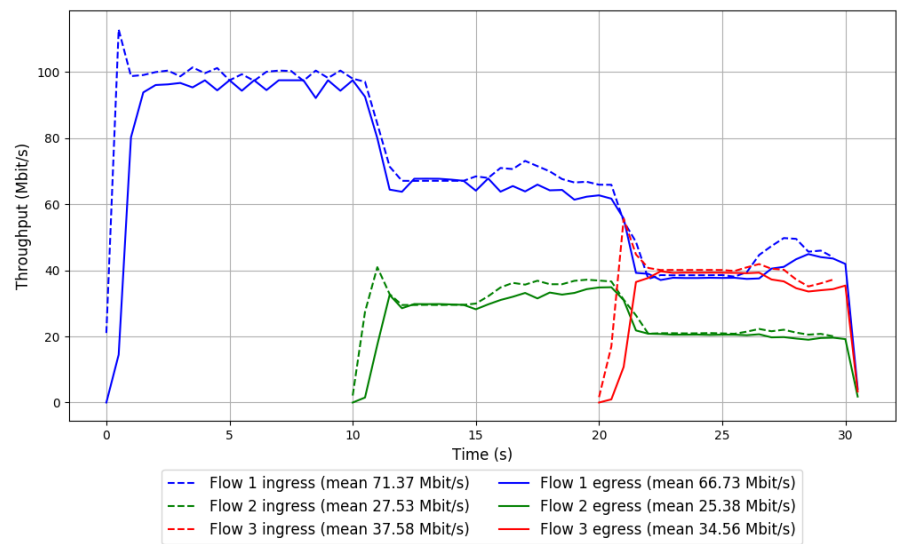
-- Flow 3:

Average throughput: 34.56 Mbit/s

95th percentile per-packet one-way delay: 72.938 ms

Loss rate: 8.07%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-07-24 17:12:41

End at: 2018-07-24 17:13:11

Local clock offset: 0.577 ms

Remote clock offset: 1.918 ms

Below is generated by plot.py at 2018-07-24 18:16:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.65 Mbit/s

95th percentile per-packet one-way delay: 71.430 ms

Loss rate: 8.46%

-- Flow 1:

Average throughput: 55.00 Mbit/s

95th percentile per-packet one-way delay: 70.505 ms

Loss rate: 7.15%

-- Flow 2:

Average throughput: 44.13 Mbit/s

95th percentile per-packet one-way delay: 71.932 ms

Loss rate: 10.02%

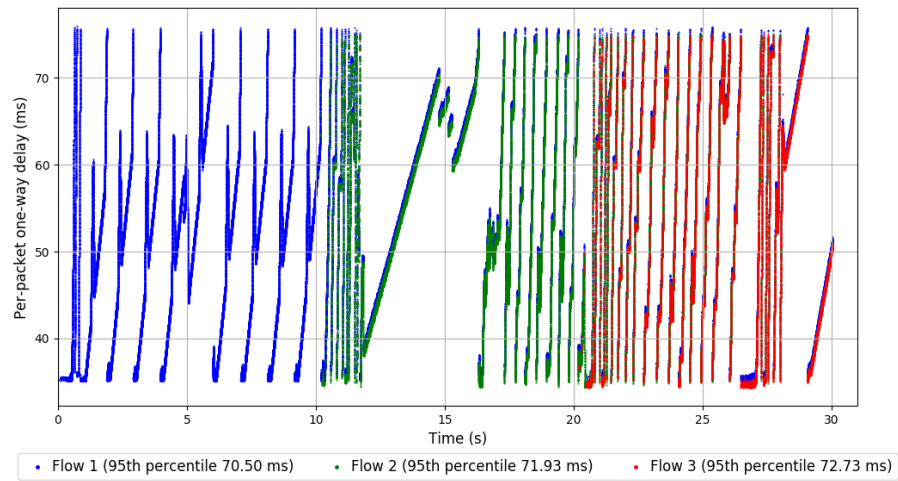
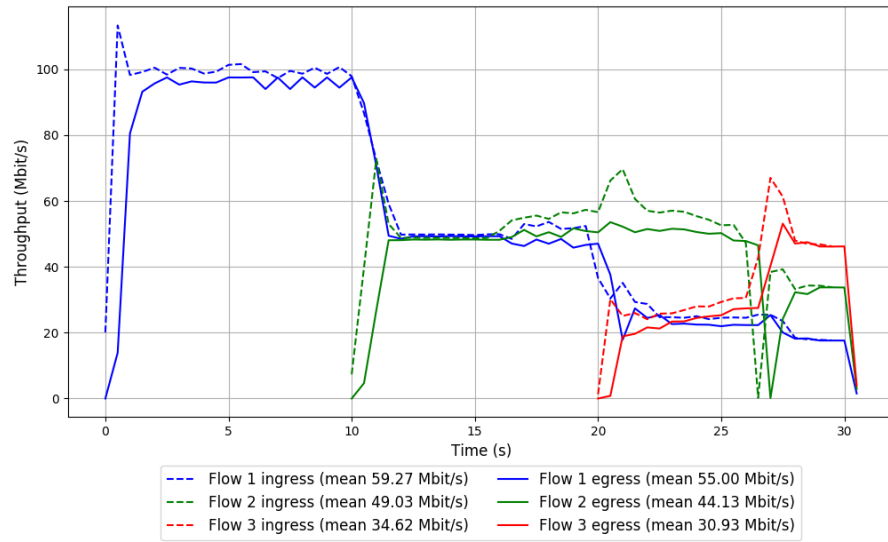
-- Flow 3:

Average throughput: 30.93 Mbit/s

95th percentile per-packet one-way delay: 72.729 ms

Loss rate: 10.75%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-07-24 17:35:36

End at: 2018-07-24 17:36:06

Local clock offset: 1.364 ms

Remote clock offset: 1.736 ms

Below is generated by plot.py at 2018-07-24 18:17:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.03 Mbit/s

95th percentile per-packet one-way delay: 71.748 ms

Loss rate: 10.42%

-- Flow 1:

Average throughput: 55.18 Mbit/s

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

Loss rate: 8.58%

-- Flow 2:

Average throughput: 45.97 Mbit/s

95th percentile per-packet one-way delay: 72.001 ms

Loss rate: 13.19%

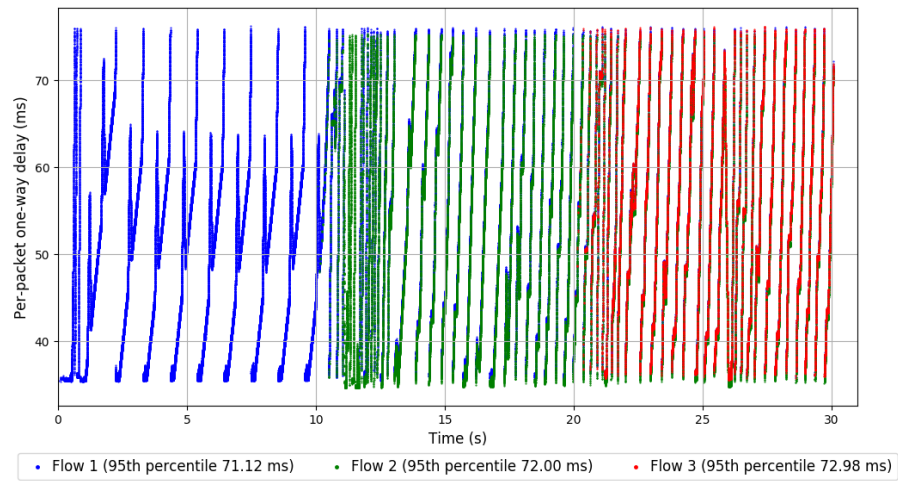
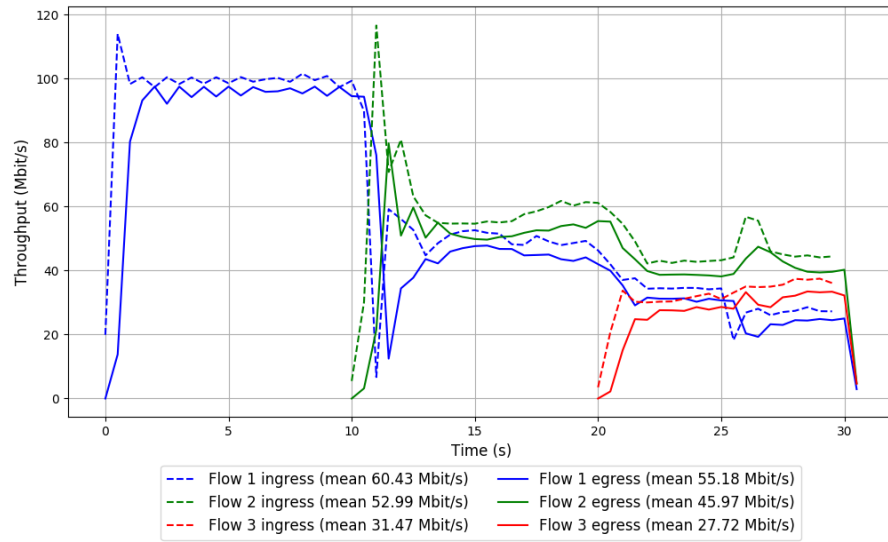
-- Flow 3:

Average throughput: 27.72 Mbit/s

95th percentile per-packet one-way delay: 72.984 ms

Loss rate: 11.70%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-07-24 17:58:33

End at: 2018-07-24 17:59:03

Local clock offset: 3.972 ms

Remote clock offset: 1.858 ms

Below is generated by plot.py at 2018-07-24 18:17:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.32 Mbit/s

95th percentile per-packet one-way delay: 72.091 ms

Loss rate: 9.72%

-- Flow 1:

Average throughput: 63.70 Mbit/s

95th percentile per-packet one-way delay: 71.307 ms

Loss rate: 8.61%

-- Flow 2:

Average throughput: 29.37 Mbit/s

95th percentile per-packet one-way delay: 73.577 ms

Loss rate: 11.90%

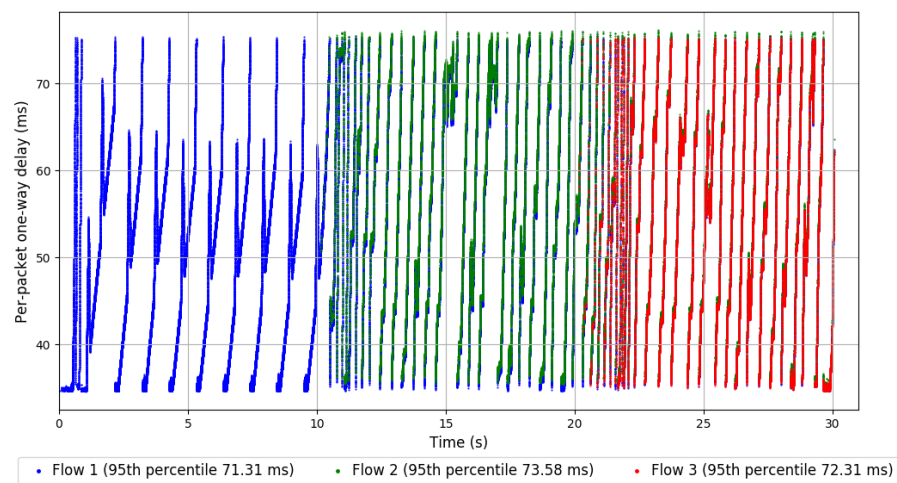
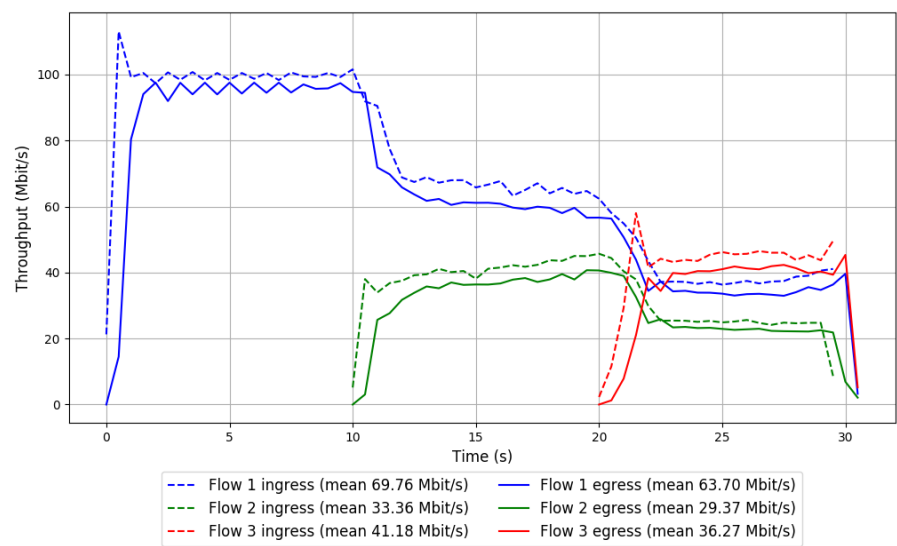
-- Flow 3:

Average throughput: 36.27 Mbit/s

95th percentile per-packet one-way delay: 72.310 ms

Loss rate: 11.86%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-07-24 14:42:30

End at: 2018-07-24 14:43:00

Local clock offset: 3.395 ms

Remote clock offset: 2.008 ms

Below is generated by plot.py at 2018-07-24 18:18:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.91 Mbit/s

95th percentile per-packet one-way delay: 46.240 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 75.43 Mbit/s

95th percentile per-packet one-way delay: 46.496 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 12.59 Mbit/s

95th percentile per-packet one-way delay: 42.434 ms

Loss rate: 0.04%

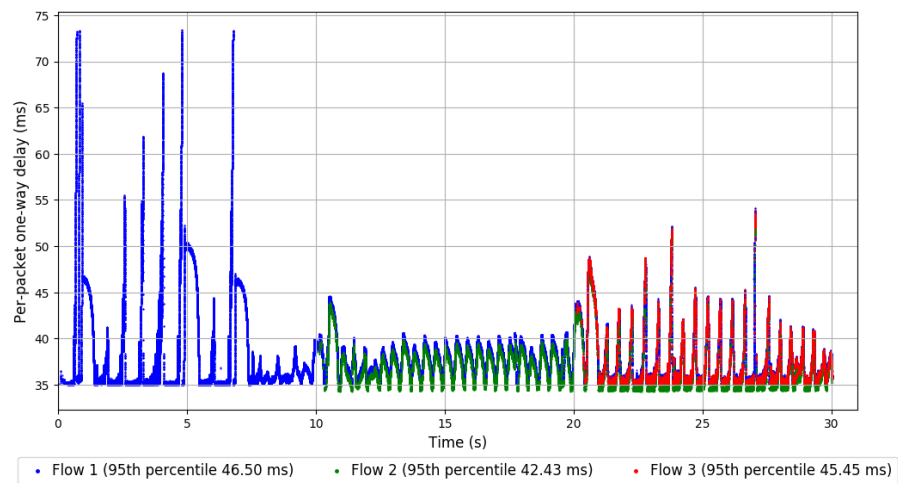
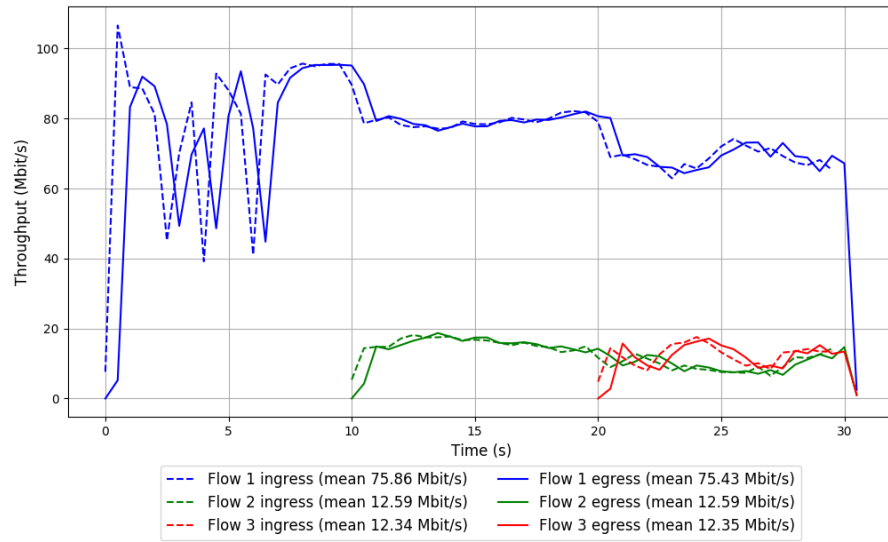
-- Flow 3:

Average throughput: 12.35 Mbit/s

95th percentile per-packet one-way delay: 45.446 ms

Loss rate: 0.01%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-07-24 15:05:37

End at: 2018-07-24 15:06:07

Local clock offset: 3.391 ms

Remote clock offset: 4.467 ms

Below is generated by plot.py at 2018-07-24 18:18:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.90 Mbit/s

95th percentile per-packet one-way delay: 52.008 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 65.66 Mbit/s

95th percentile per-packet one-way delay: 51.871 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 26.75 Mbit/s

95th percentile per-packet one-way delay: 58.401 ms

Loss rate: 0.40%

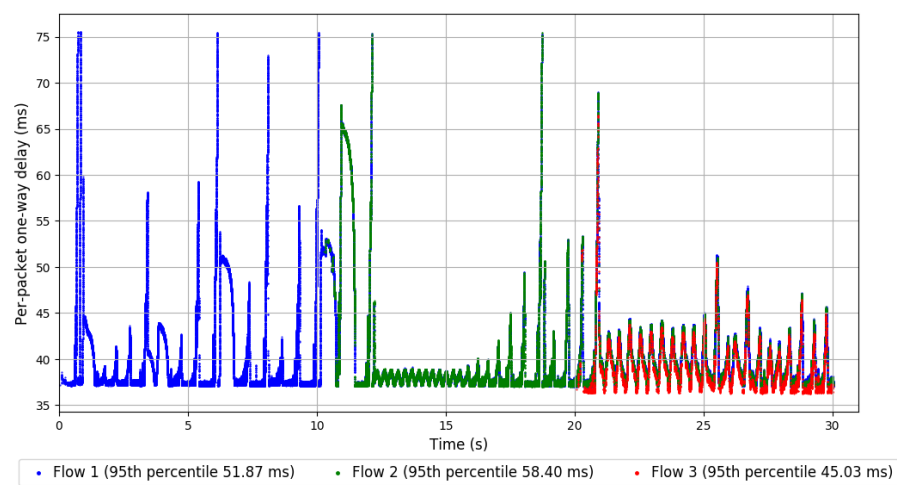
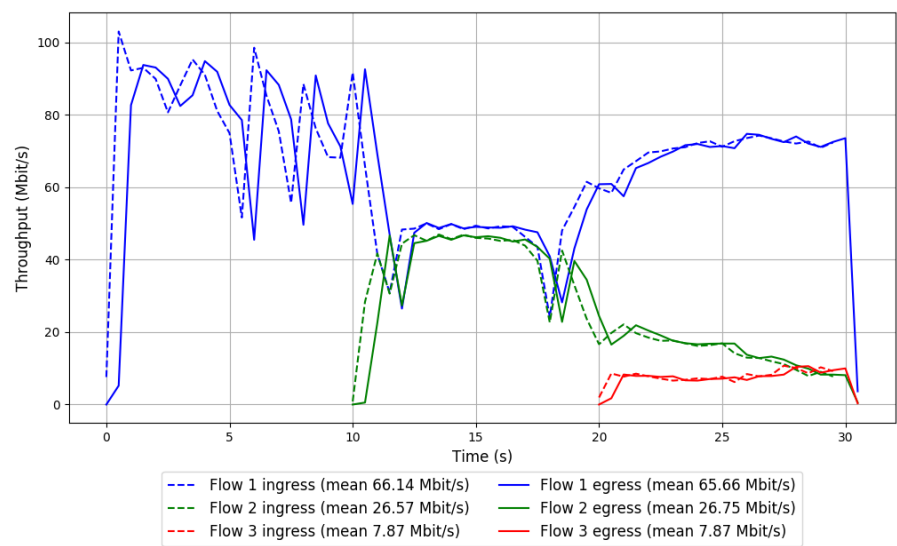
-- Flow 3:

Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 45.026 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-07-24 15:28:38

End at: 2018-07-24 15:29:08

Local clock offset: 0.304 ms

Remote clock offset: 1.941 ms

Below is generated by plot.py at 2018-07-24 18:18:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.51 Mbit/s

95th percentile per-packet one-way delay: 44.452 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 72.73 Mbit/s

95th percentile per-packet one-way delay: 44.978 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 14.67 Mbit/s

95th percentile per-packet one-way delay: 41.274 ms

Loss rate: 0.00%

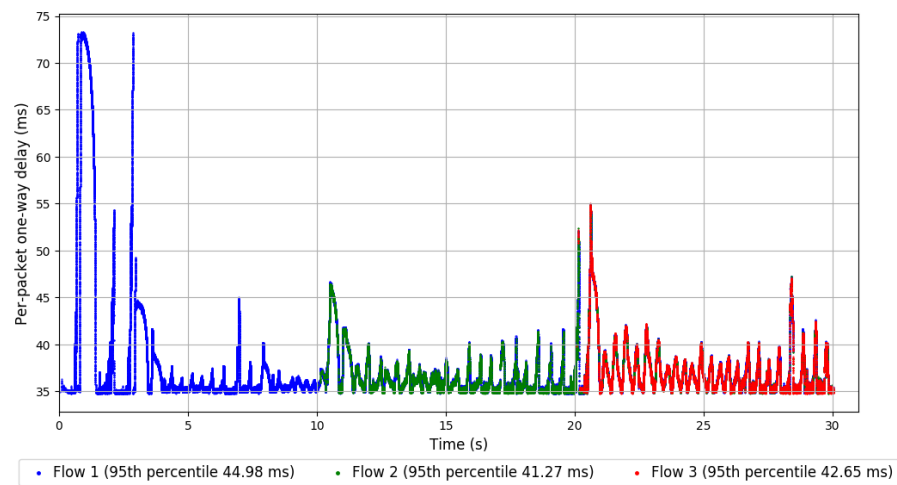
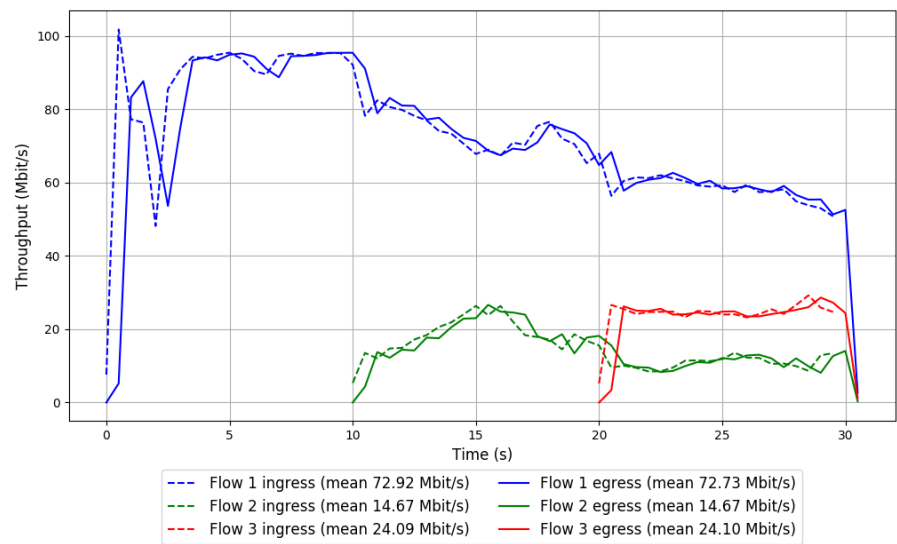
-- Flow 3:

Average throughput: 24.10 Mbit/s

95th percentile per-packet one-way delay: 42.654 ms

Loss rate: 0.01%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-07-24 15:51:44

End at: 2018-07-24 15:52:15

Local clock offset: -0.308 ms

Remote clock offset: 3.727 ms

Below is generated by plot.py at 2018-07-24 18:18:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.84 Mbit/s

95th percentile per-packet one-way delay: 52.877 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 44.71 Mbit/s

95th percentile per-packet one-way delay: 60.297 ms

Loss rate: 1.01%

-- Flow 2:

Average throughput: 51.43 Mbit/s

95th percentile per-packet one-way delay: 43.830 ms

Loss rate: 0.29%

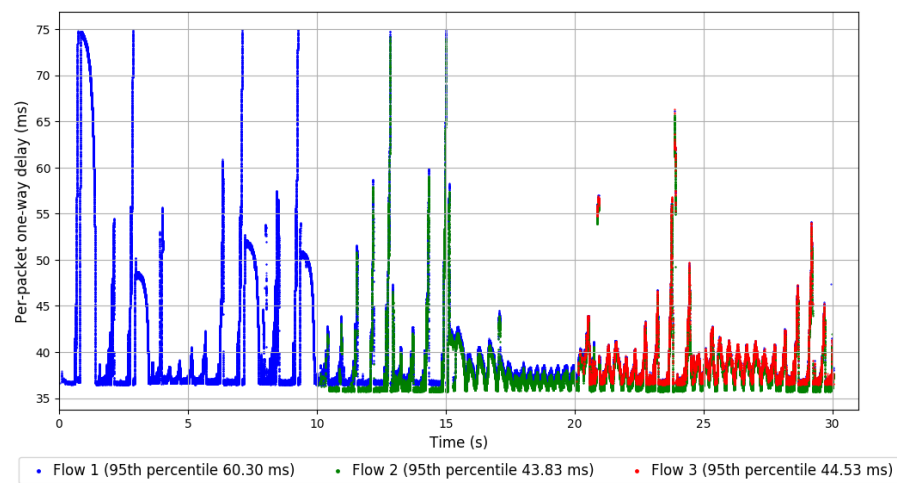
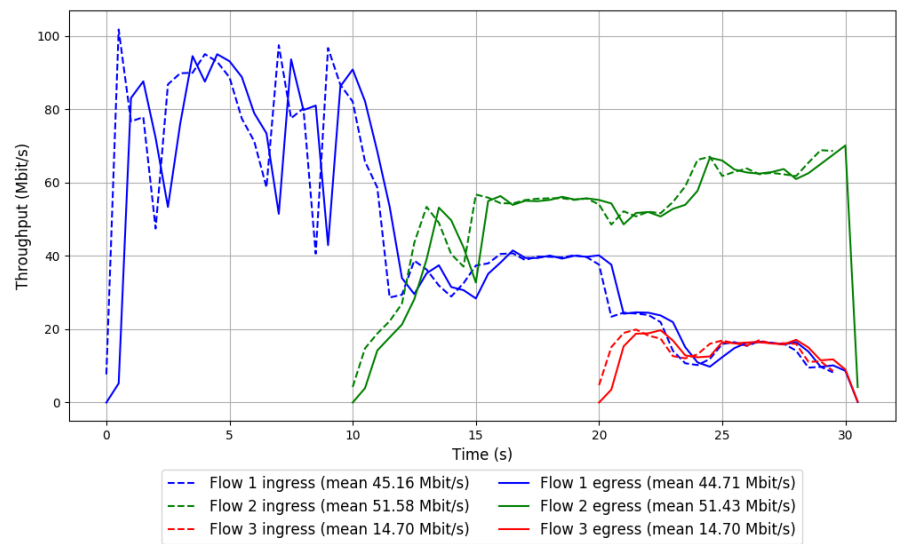
-- Flow 3:

Average throughput: 14.70 Mbit/s

95th percentile per-packet one-way delay: 44.531 ms

Loss rate: 0.04%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-07-24 16:14:36

End at: 2018-07-24 16:15:06

Local clock offset: 0.578 ms

Remote clock offset: 2.517 ms

Below is generated by plot.py at 2018-07-24 18:18:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.81 Mbit/s

95th percentile per-packet one-way delay: 57.329 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 50.63 Mbit/s

95th percentile per-packet one-way delay: 58.831 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 27.50 Mbit/s

95th percentile per-packet one-way delay: 55.821 ms

Loss rate: 0.30%

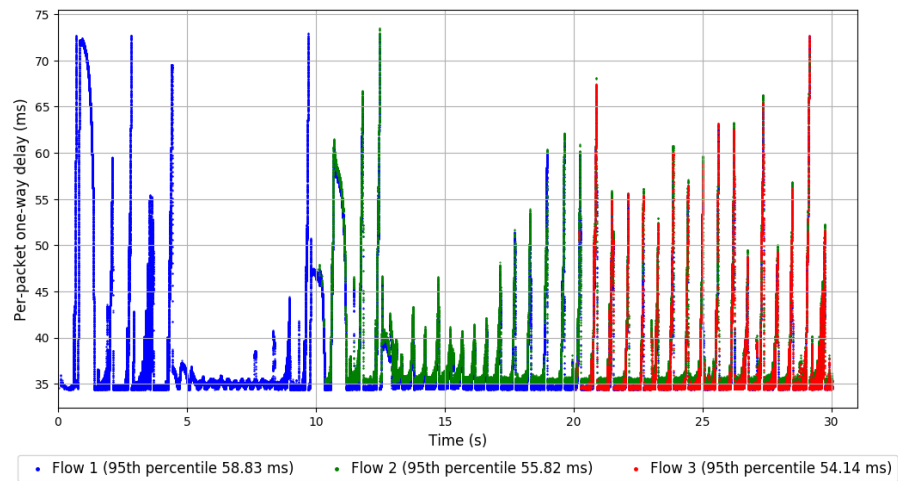
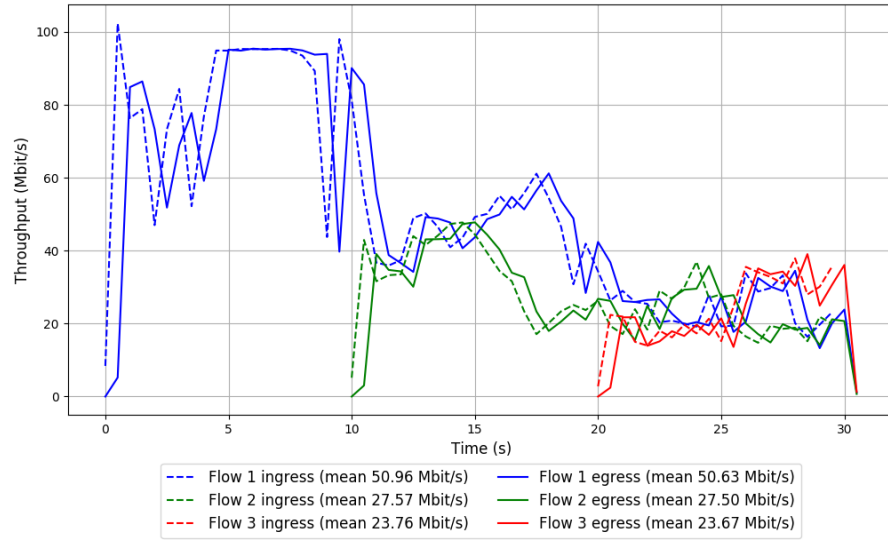
-- Flow 3:

Average throughput: 23.67 Mbit/s

95th percentile per-packet one-way delay: 54.136 ms

Loss rate: 0.37%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-07-24 16:37:35

End at: 2018-07-24 16:38:05

Local clock offset: 0.912 ms

Remote clock offset: 2.726 ms

Below is generated by plot.py at 2018-07-24 18:18:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.87 Mbit/s

95th percentile per-packet one-way delay: 49.677 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 53.43 Mbit/s

95th percentile per-packet one-way delay: 50.215 ms

Loss rate: 1.10%

-- Flow 2:

Average throughput: 35.40 Mbit/s

95th percentile per-packet one-way delay: 45.856 ms

Loss rate: 0.10%

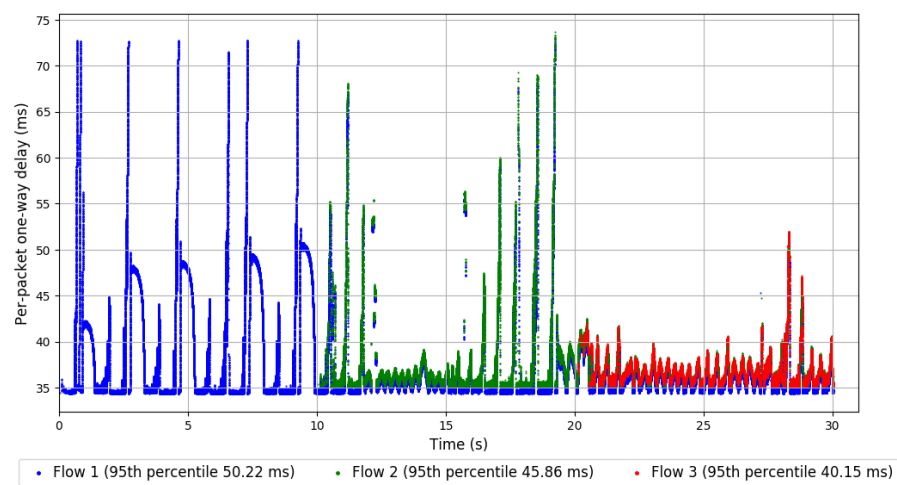
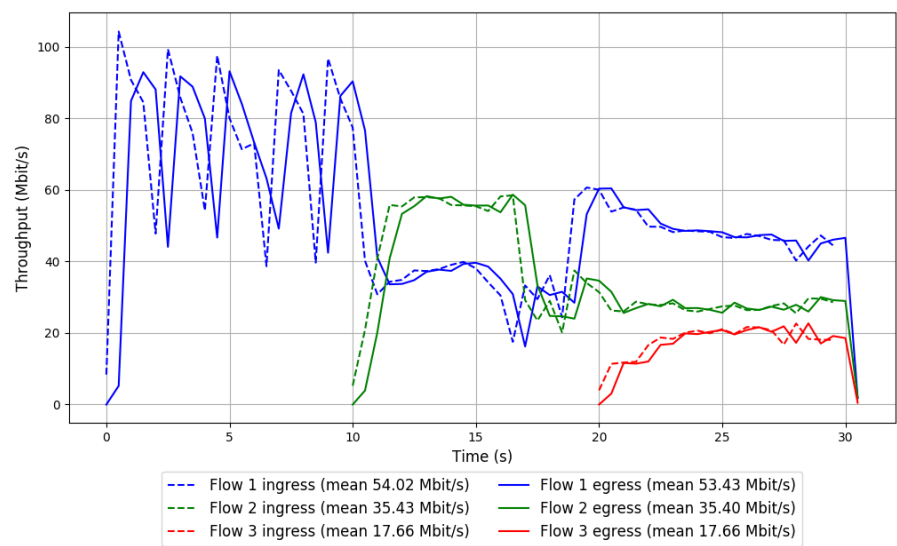
-- Flow 3:

Average throughput: 17.66 Mbit/s

95th percentile per-packet one-way delay: 40.146 ms

Loss rate: 0.01%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-07-24 17:00:33

End at: 2018-07-24 17:01:03

Local clock offset: 0.934 ms

Remote clock offset: 2.005 ms

Below is generated by plot.py at 2018-07-24 18:19:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.37 Mbit/s

95th percentile per-packet one-way delay: 49.722 ms

Loss rate: 1.17%

-- Flow 1:

Average throughput: 59.30 Mbit/s

95th percentile per-packet one-way delay: 49.657 ms

Loss rate: 1.55%

-- Flow 2:

Average throughput: 17.94 Mbit/s

95th percentile per-packet one-way delay: 47.943 ms

Loss rate: 0.18%

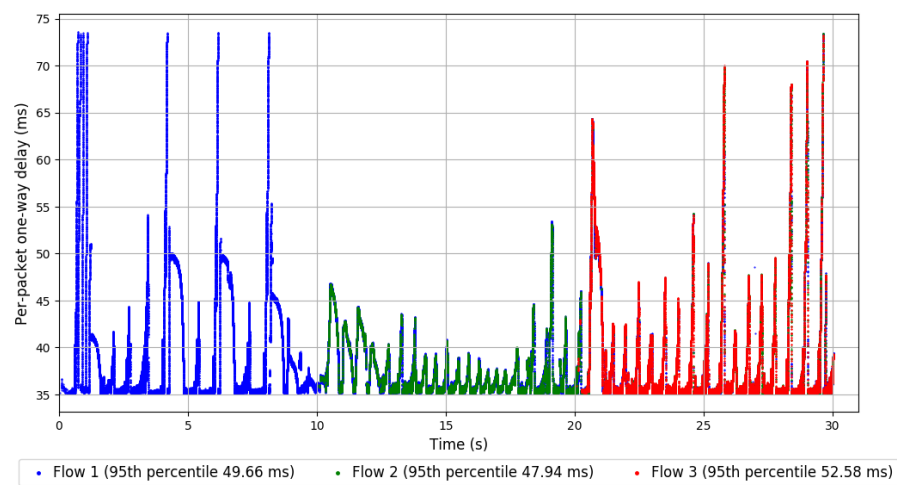
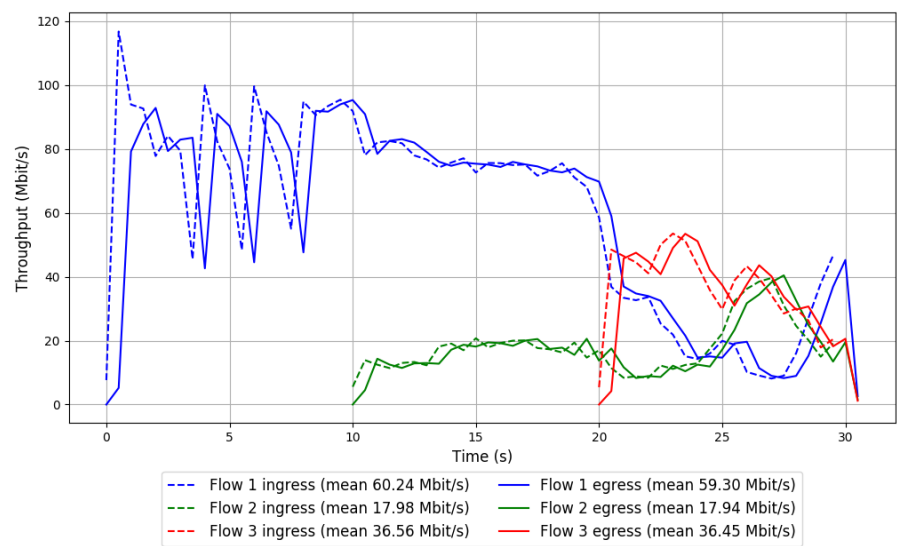
-- Flow 3:

Average throughput: 36.45 Mbit/s

95th percentile per-packet one-way delay: 52.584 ms

Loss rate: 0.27%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-07-24 17:23:28

End at: 2018-07-24 17:23:58

Local clock offset: 0.319 ms

Remote clock offset: 1.779 ms

Below is generated by plot.py at 2018-07-24 18:19:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.72 Mbit/s

95th percentile per-packet one-way delay: 42.571 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 76.47 Mbit/s

95th percentile per-packet one-way delay: 42.710 ms

Loss rate: 0.95%

-- Flow 2:

Average throughput: 12.59 Mbit/s

95th percentile per-packet one-way delay: 40.481 ms

Loss rate: 0.00%

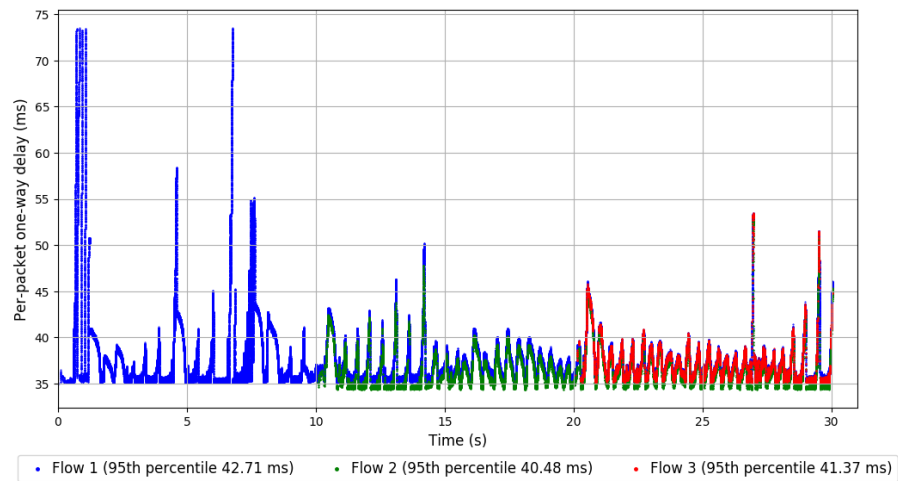
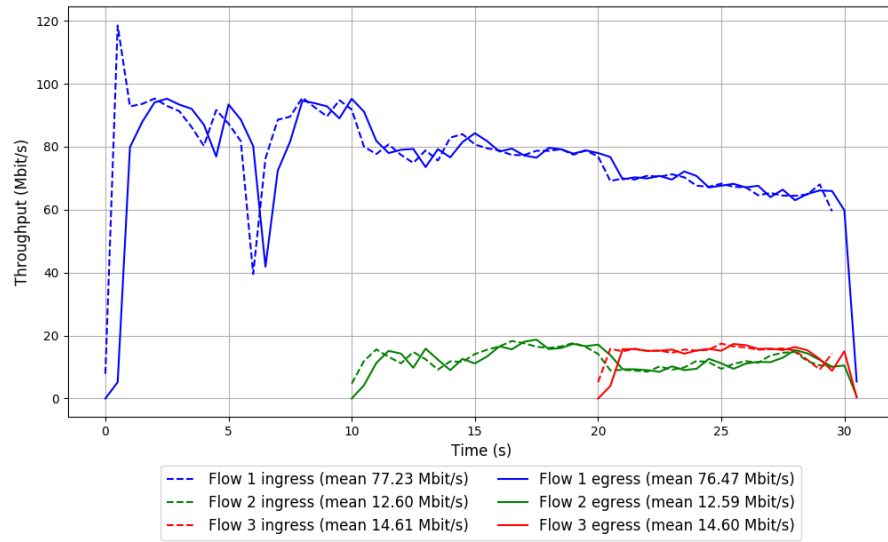
-- Flow 3:

Average throughput: 14.60 Mbit/s

95th percentile per-packet one-way delay: 41.367 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-07-24 17:46:21

End at: 2018-07-24 17:46:51

Local clock offset: 3.103 ms

Remote clock offset: 1.65 ms

Below is generated by plot.py at 2018-07-24 18:19:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.19 Mbit/s

95th percentile per-packet one-way delay: 46.708 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 75.68 Mbit/s

95th percentile per-packet one-way delay: 47.920 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 13.40 Mbit/s

95th percentile per-packet one-way delay: 42.809 ms

Loss rate: 0.00%

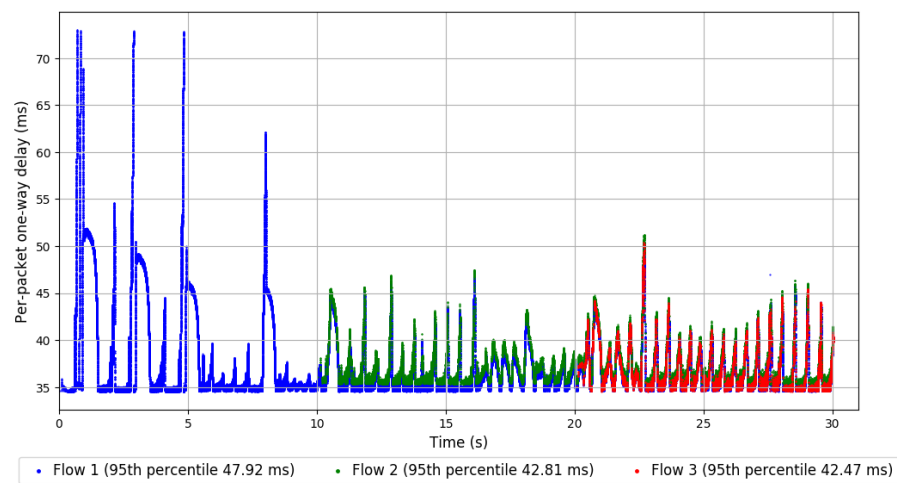
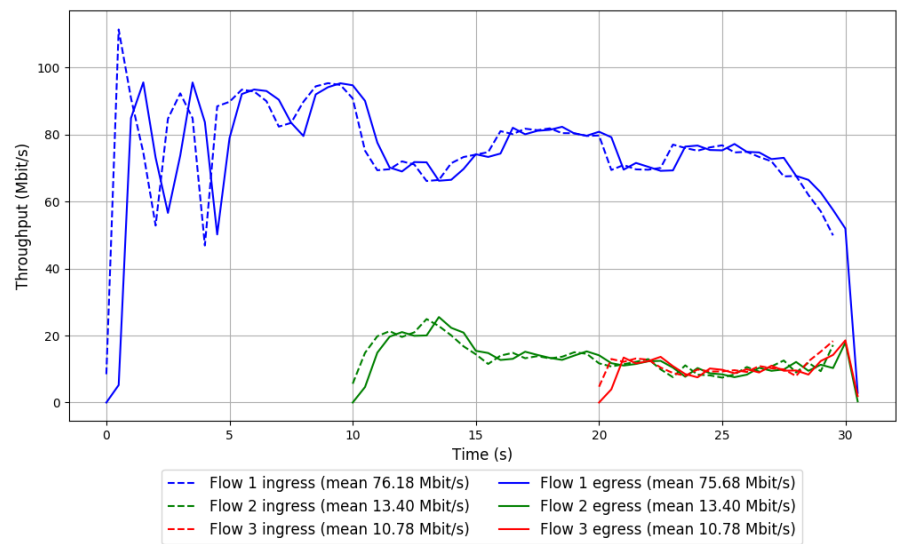
-- Flow 3:

Average throughput: 10.78 Mbit/s

95th percentile per-packet one-way delay: 42.467 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-07-24 18:09:22

End at: 2018-07-24 18:09:52

Local clock offset: 1.859 ms

Remote clock offset: 1.939 ms

Below is generated by plot.py at 2018-07-24 18:19:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.85 Mbit/s

95th percentile per-packet one-way delay: 47.396 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 72.14 Mbit/s

95th percentile per-packet one-way delay: 48.746 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 18.18 Mbit/s

95th percentile per-packet one-way delay: 39.380 ms

Loss rate: 0.00%

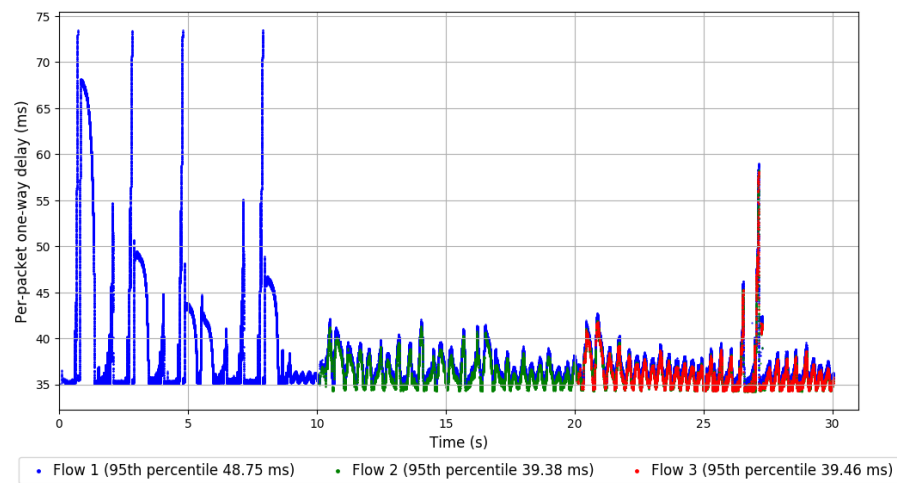
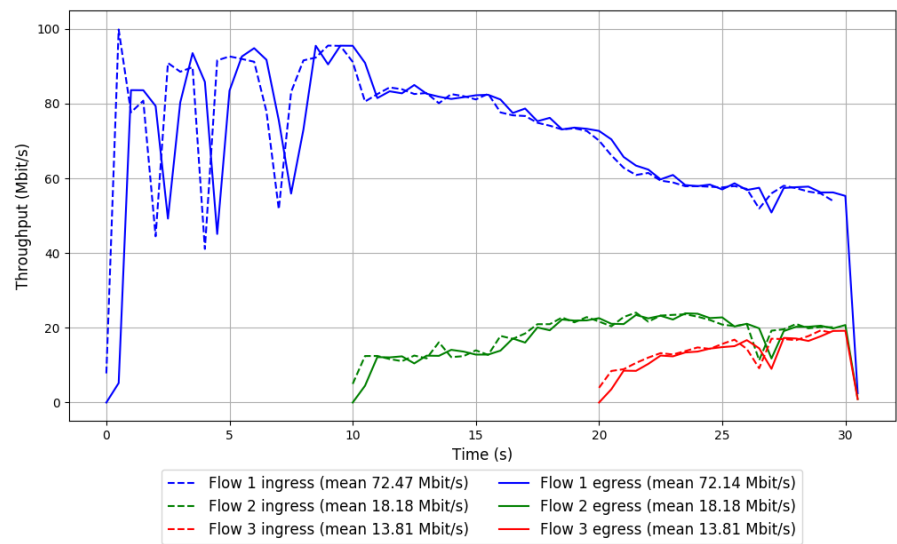
-- Flow 3:

Average throughput: 13.81 Mbit/s

95th percentile per-packet one-way delay: 39.464 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-07-24 14:41:09

End at: 2018-07-24 14:41:39

Local clock offset: 3.156 ms

Remote clock offset: 4.301 ms

Below is generated by plot.py at 2018-07-24 18:19:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.15 Mbit/s

95th percentile per-packet one-way delay: 74.384 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 70.96 Mbit/s

95th percentile per-packet one-way delay: 74.617 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 25.17 Mbit/s

95th percentile per-packet one-way delay: 74.152 ms

Loss rate: 1.00%

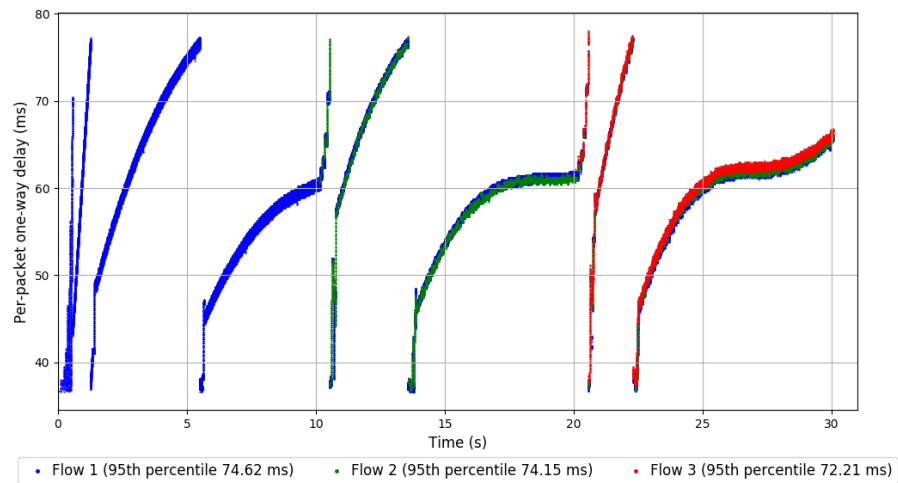
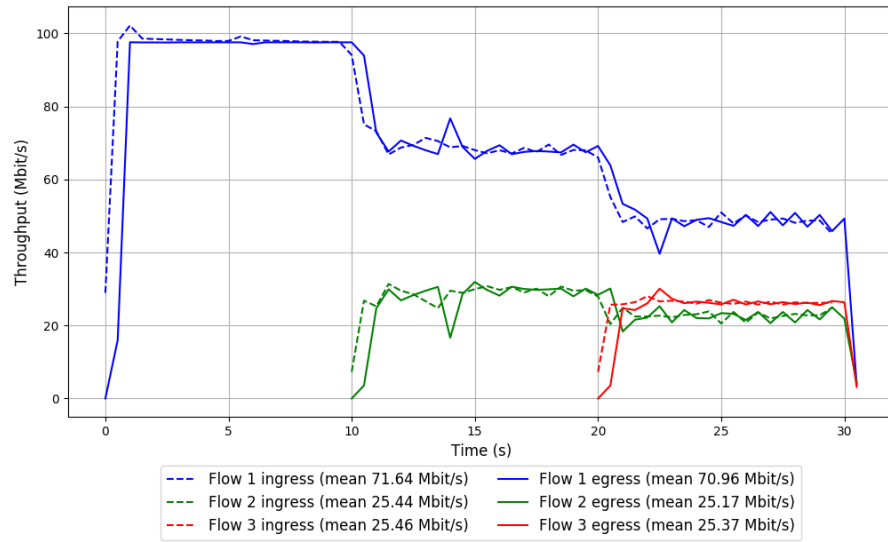
-- Flow 3:

Average throughput: 25.37 Mbit/s

95th percentile per-packet one-way delay: 72.211 ms

Loss rate: 0.32%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-07-24 15:04:14

End at: 2018-07-24 15:04:44

Local clock offset: 3.998 ms

Remote clock offset: 4.489 ms

Below is generated by plot.py at 2018-07-24 18:19:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.09 Mbit/s

95th percentile per-packet one-way delay: 74.884 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 71.46 Mbit/s

95th percentile per-packet one-way delay: 75.089 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 24.87 Mbit/s

95th percentile per-packet one-way delay: 74.901 ms

Loss rate: 0.70%

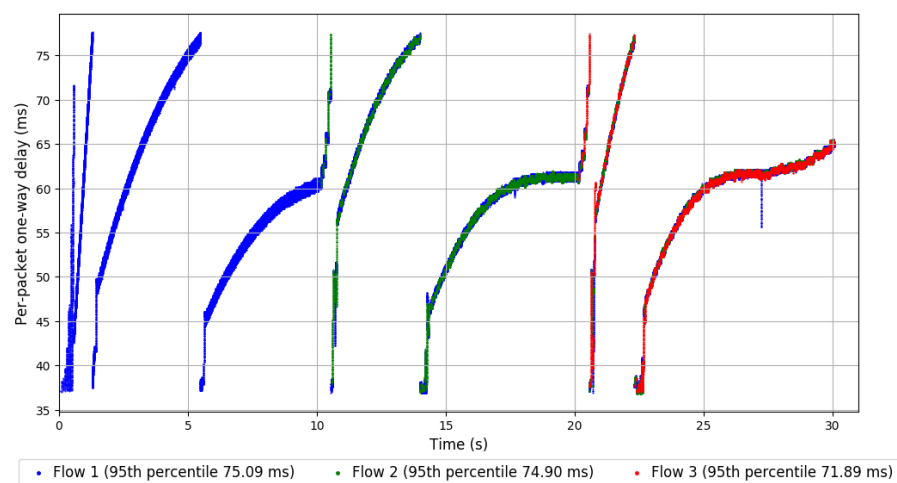
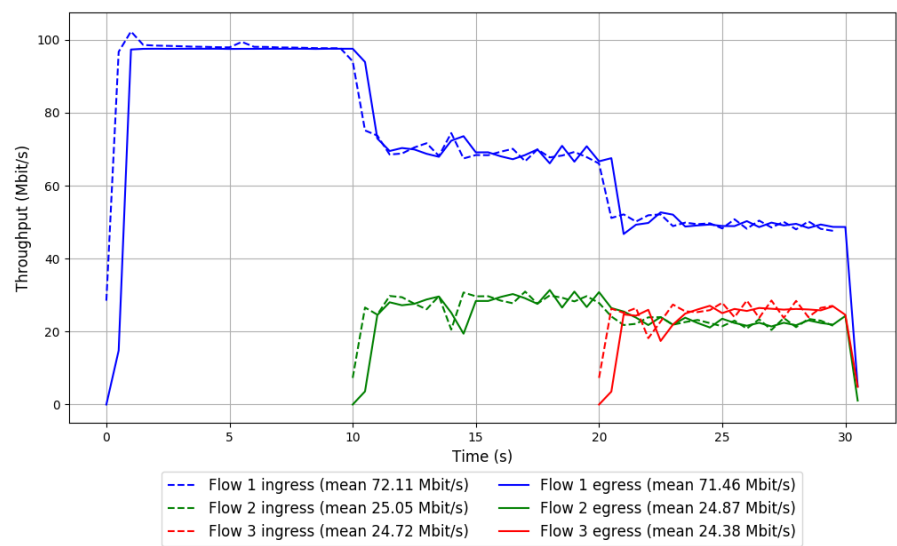
-- Flow 3:

Average throughput: 24.38 Mbit/s

95th percentile per-packet one-way delay: 71.890 ms

Loss rate: 1.32%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-07-24 15:27:16

End at: 2018-07-24 15:27:46

Local clock offset: 0.339 ms

Remote clock offset: 4.272 ms

Below is generated by plot.py at 2018-07-24 18:19:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.17 Mbit/s

95th percentile per-packet one-way delay: 74.219 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 68.81 Mbit/s

95th percentile per-packet one-way delay: 74.432 ms

Loss rate: 0.87%

-- Flow 2:

Average throughput: 25.04 Mbit/s

95th percentile per-packet one-way delay: 73.920 ms

Loss rate: 0.52%

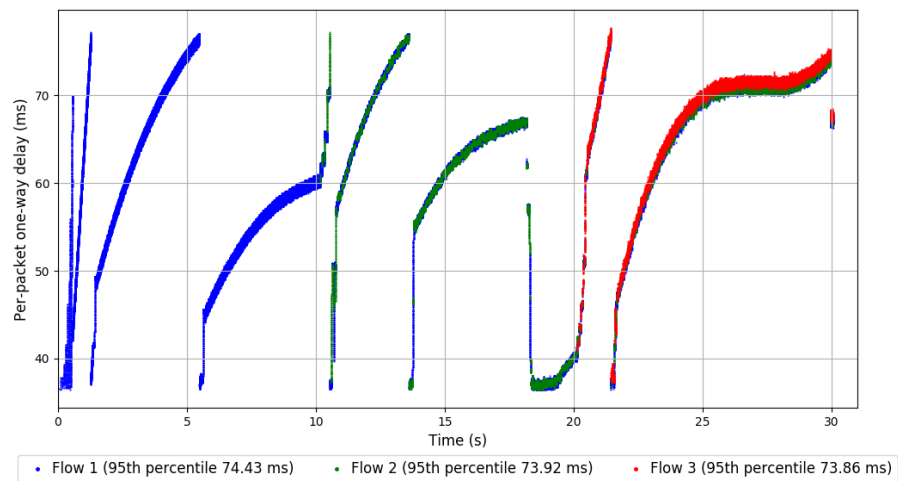
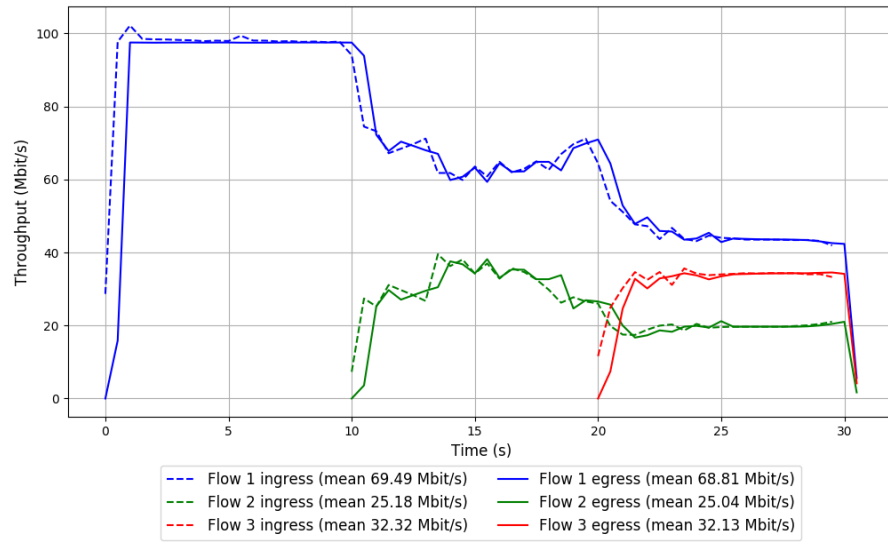
-- Flow 3:

Average throughput: 32.13 Mbit/s

95th percentile per-packet one-way delay: 73.859 ms

Loss rate: 0.32%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-07-24 15:50:23

End at: 2018-07-24 15:50:53

Local clock offset: -0.289 ms

Remote clock offset: 4.399 ms

Below is generated by plot.py at 2018-07-24 18:19:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.22 Mbit/s

95th percentile per-packet one-way delay: 74.851 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 71.23 Mbit/s

95th percentile per-packet one-way delay: 75.127 ms

Loss rate: 0.85%

-- Flow 2:

Average throughput: 23.45 Mbit/s

95th percentile per-packet one-way delay: 74.533 ms

Loss rate: 1.13%

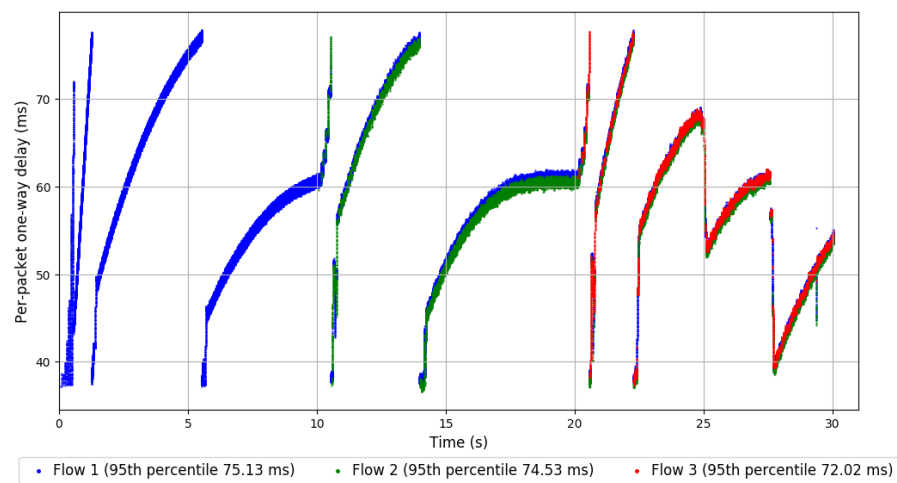
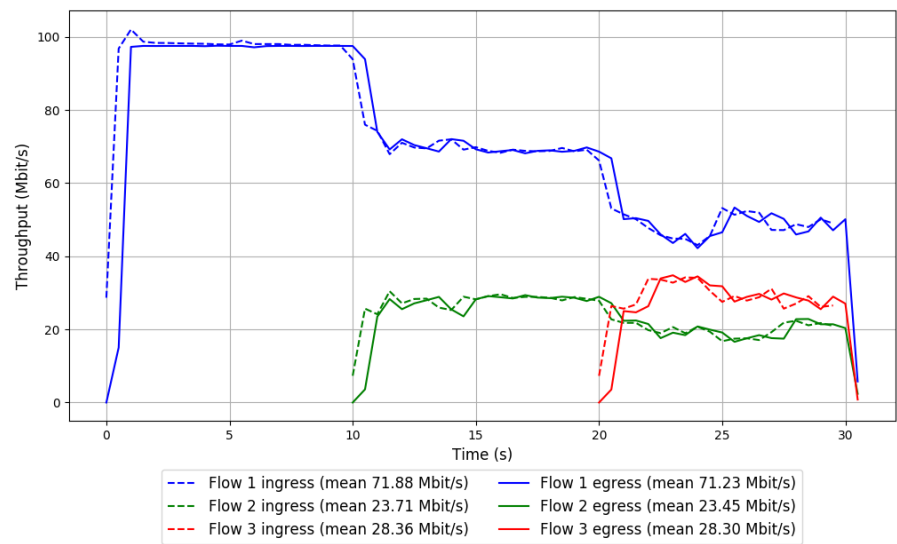
-- Flow 3:

Average throughput: 28.30 Mbit/s

95th percentile per-packet one-way delay: 72.019 ms

Loss rate: 0.27%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-07-24 16:13:15

End at: 2018-07-24 16:13:45

Local clock offset: 0.499 ms

Remote clock offset: 2.53 ms

Below is generated by plot.py at 2018-07-24 18:20:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.11 Mbit/s

95th percentile per-packet one-way delay: 69.538 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 59.79 Mbit/s

95th percentile per-packet one-way delay: 68.791 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 42.02 Mbit/s

95th percentile per-packet one-way delay: 70.528 ms

Loss rate: 0.72%

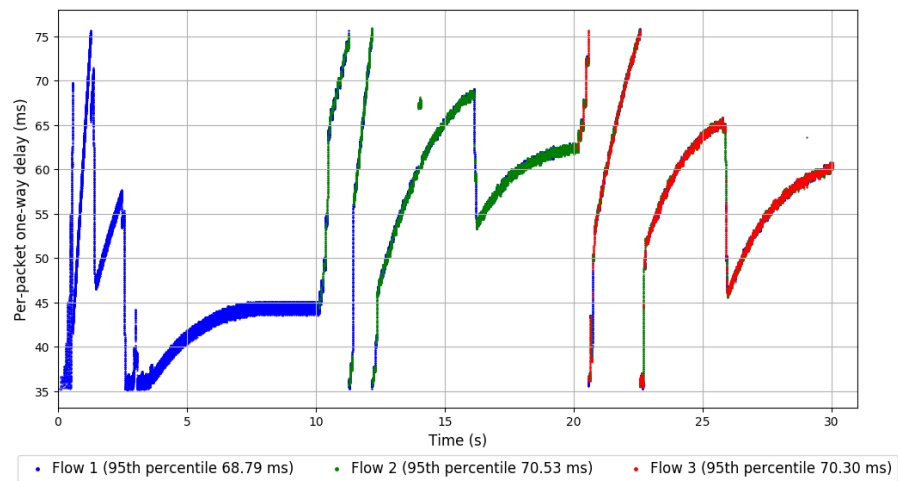
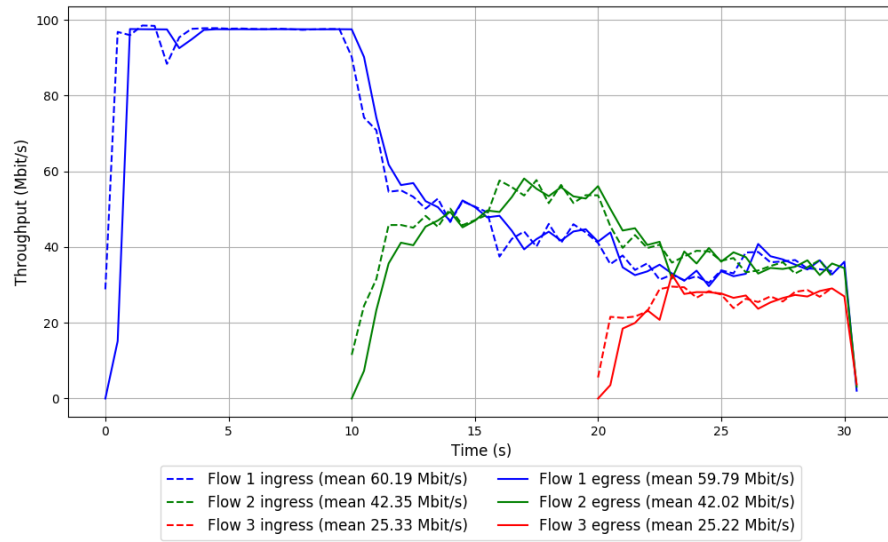
-- Flow 3:

Average throughput: 25.22 Mbit/s

95th percentile per-packet one-way delay: 70.302 ms

Loss rate: 0.47%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-07-24 16:36:14

End at: 2018-07-24 16:36:44

Local clock offset: 0.919 ms

Remote clock offset: 2.701 ms

Below is generated by plot.py at 2018-07-24 18:20:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.24 Mbit/s

95th percentile per-packet one-way delay: 72.672 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 71.48 Mbit/s

95th percentile per-packet one-way delay: 72.846 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 24.27 Mbit/s

95th percentile per-packet one-way delay: 72.069 ms

Loss rate: 0.66%

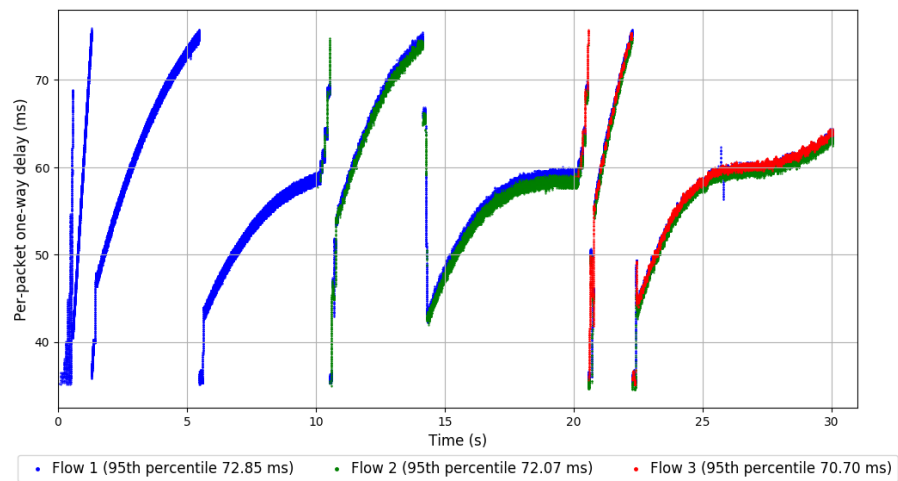
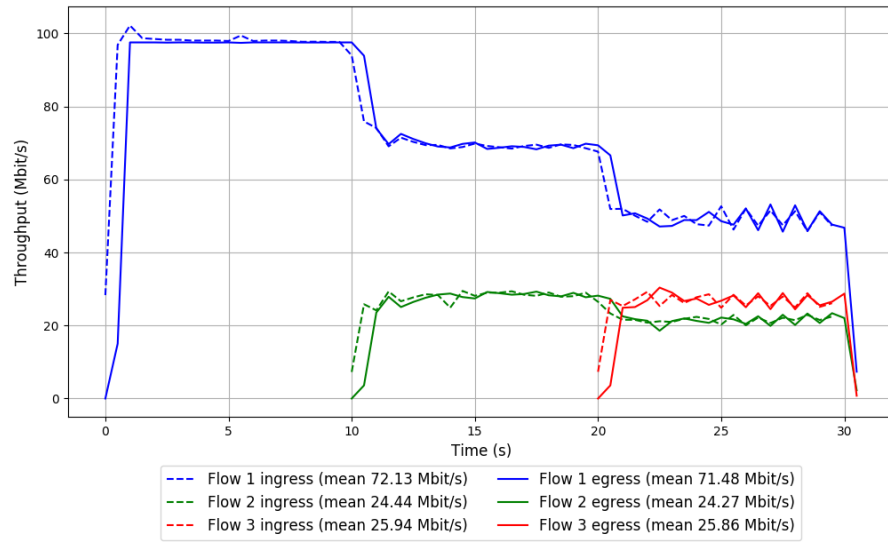
-- Flow 3:

Average throughput: 25.86 Mbit/s

95th percentile per-packet one-way delay: 70.697 ms

Loss rate: 0.23%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-07-24 16:59:12

End at: 2018-07-24 16:59:42

Local clock offset: 0.935 ms

Remote clock offset: 2.101 ms

Below is generated by plot.py at 2018-07-24 18:20:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.04 Mbit/s

95th percentile per-packet one-way delay: 72.726 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 66.49 Mbit/s

95th percentile per-packet one-way delay: 72.709 ms

Loss rate: 0.81%

-- Flow 2:

Average throughput: 29.62 Mbit/s

95th percentile per-packet one-way delay: 72.668 ms

Loss rate: 0.65%

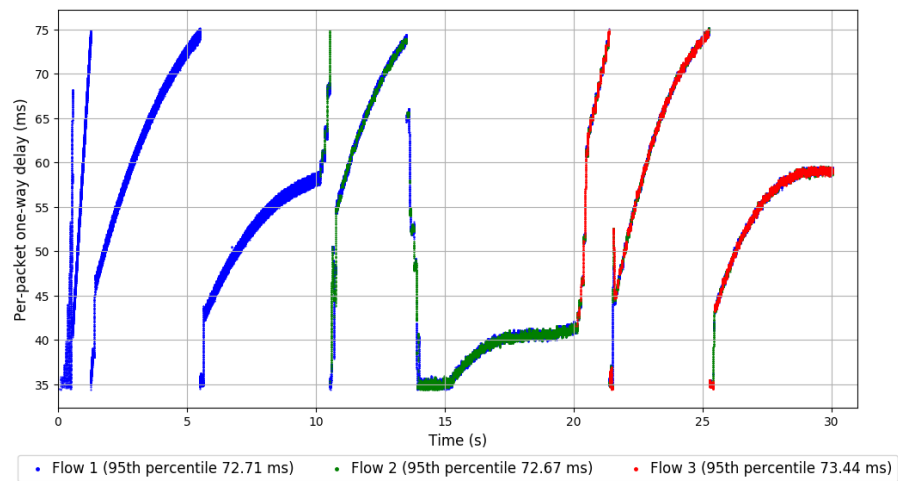
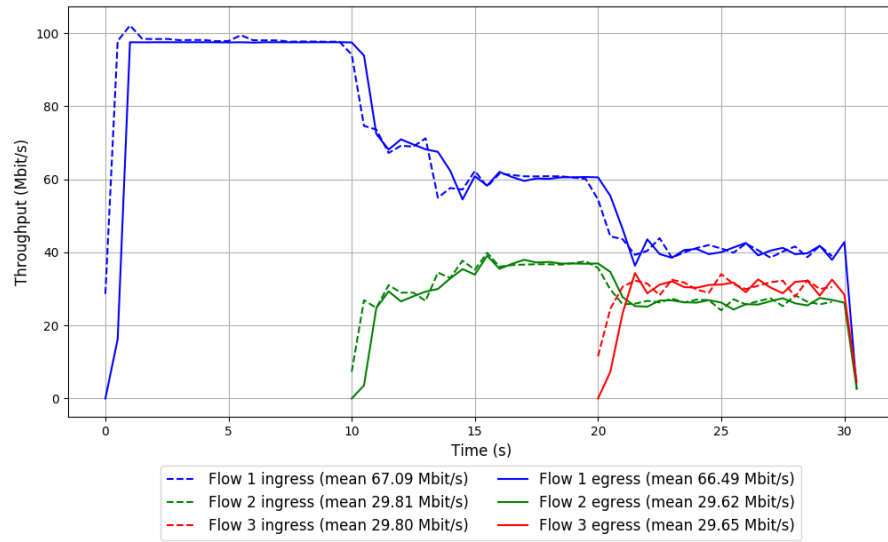
-- Flow 3:

Average throughput: 29.65 Mbit/s

95th percentile per-packet one-way delay: 73.444 ms

Loss rate: 0.33%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-07-24 17:22:08

End at: 2018-07-24 17:22:38

Local clock offset: 0.322 ms

Remote clock offset: 1.908 ms

Below is generated by plot.py at 2018-07-24 18:20:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.89 Mbit/s

95th percentile per-packet one-way delay: 72.997 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 63.30 Mbit/s

95th percentile per-packet one-way delay: 73.253 ms

Loss rate: 0.82%

-- Flow 2:

Average throughput: 19.78 Mbit/s

95th percentile per-packet one-way delay: 72.726 ms

Loss rate: 0.97%

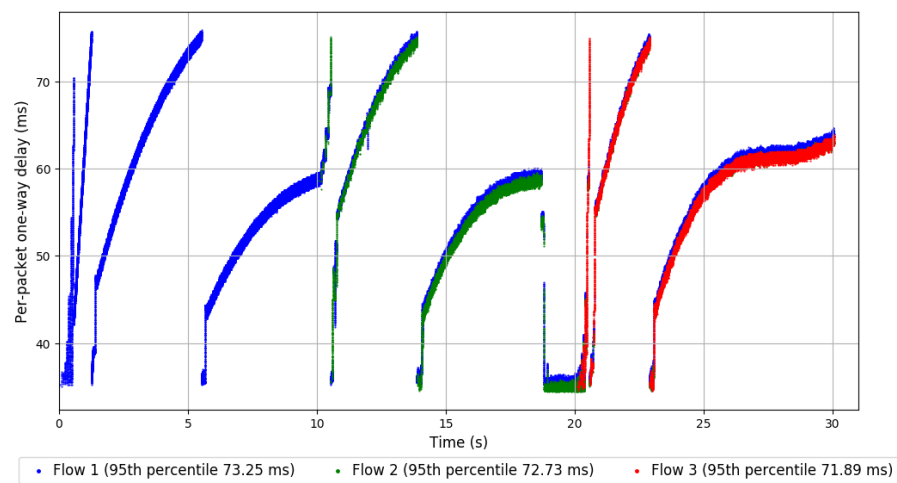
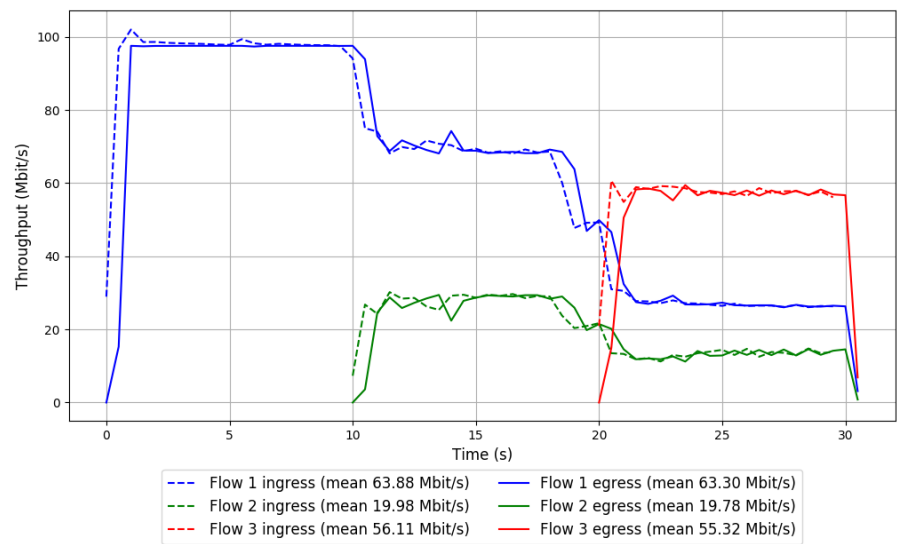
-- Flow 3:

Average throughput: 55.32 Mbit/s

95th percentile per-packet one-way delay: 71.890 ms

Loss rate: 1.12%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-07-24 17:45:00

End at: 2018-07-24 17:45:30

Local clock offset: 2.971 ms

Remote clock offset: 1.64 ms

Below is generated by plot.py at 2018-07-24 18:20:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.20 Mbit/s

95th percentile per-packet one-way delay: 73.220 ms

Loss rate: 0.82%

-- Flow 1:

Average throughput: 71.75 Mbit/s

95th percentile per-packet one-way delay: 73.440 ms

Loss rate: 0.82%

-- Flow 2:

Average throughput: 23.95 Mbit/s

95th percentile per-packet one-way delay: 72.809 ms

Loss rate: 1.13%

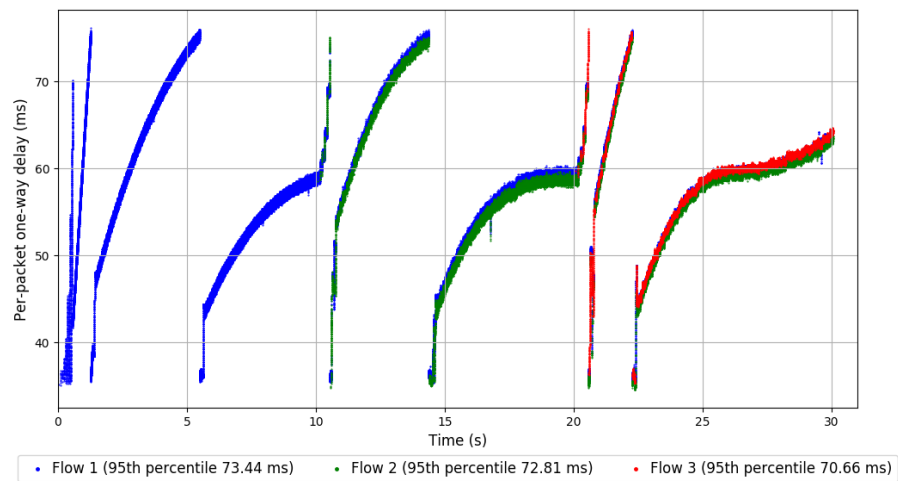
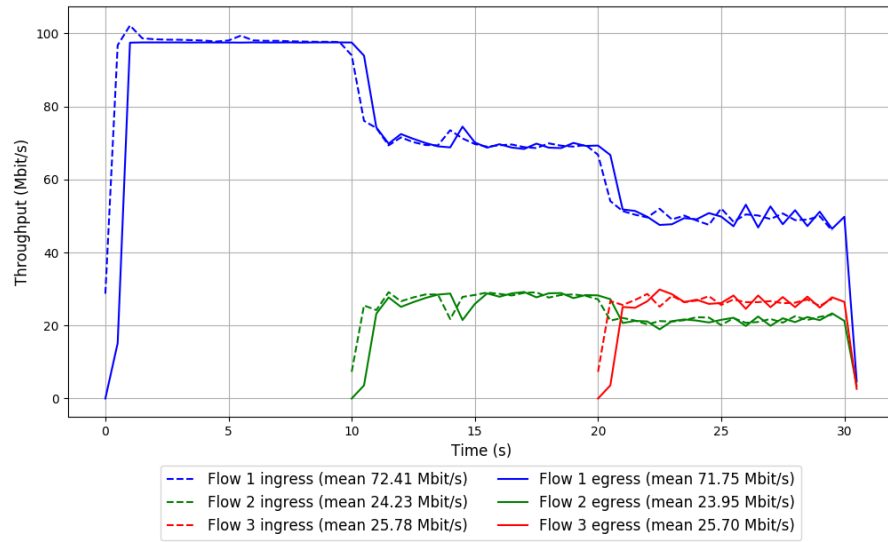
-- Flow 3:

Average throughput: 25.70 Mbit/s

95th percentile per-packet one-way delay: 70.660 ms

Loss rate: 0.29%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-07-24 18:08:01

End at: 2018-07-24 18:08:31

Local clock offset: 2.182 ms

Remote clock offset: 1.88 ms

Below is generated by plot.py at 2018-07-24 18:20:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.20 Mbit/s

95th percentile per-packet one-way delay: 71.892 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 74.65 Mbit/s

95th percentile per-packet one-way delay: 72.183 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 23.14 Mbit/s

95th percentile per-packet one-way delay: 71.303 ms

Loss rate: 0.89%

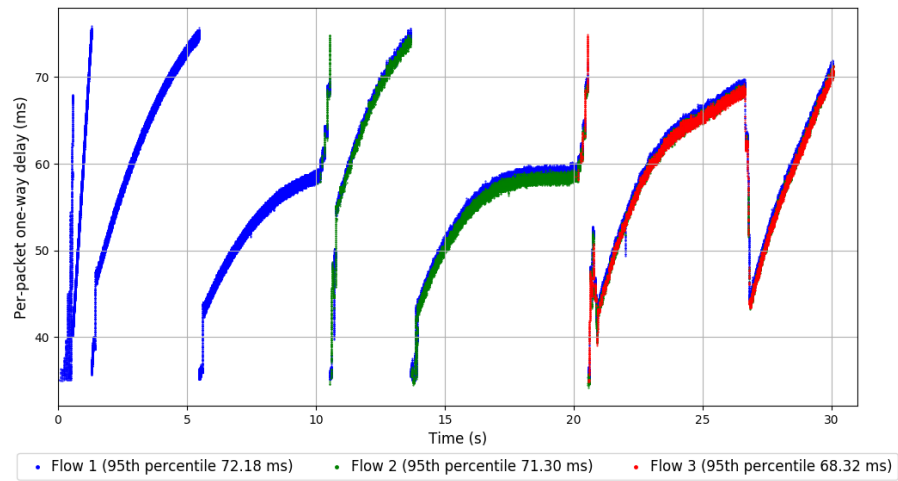
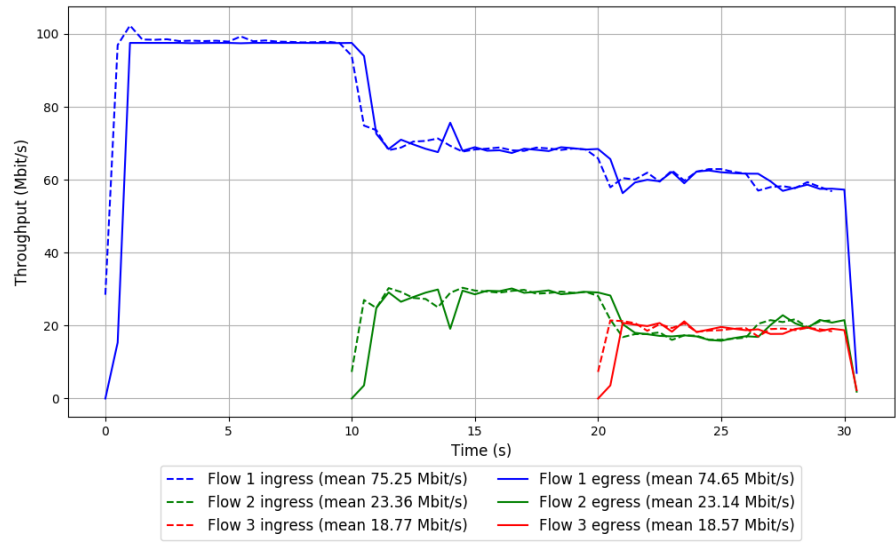
-- Flow 3:

Average throughput: 18.57 Mbit/s

95th percentile per-packet one-way delay: 68.317 ms

Loss rate: 0.92%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-07-24 14:24:53

End at: 2018-07-24 14:25:23

Local clock offset: 0.708 ms

Remote clock offset: 4.434 ms

Below is generated by plot.py at 2018-07-24 18:21:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.27 Mbit/s

95th percentile per-packet one-way delay: 74.914 ms

Loss rate: 28.96%

-- Flow 1:

Average throughput: 62.45 Mbit/s

95th percentile per-packet one-way delay: 74.524 ms

Loss rate: 22.11%

-- Flow 2:

Average throughput: 34.68 Mbit/s

95th percentile per-packet one-way delay: 75.078 ms

Loss rate: 36.15%

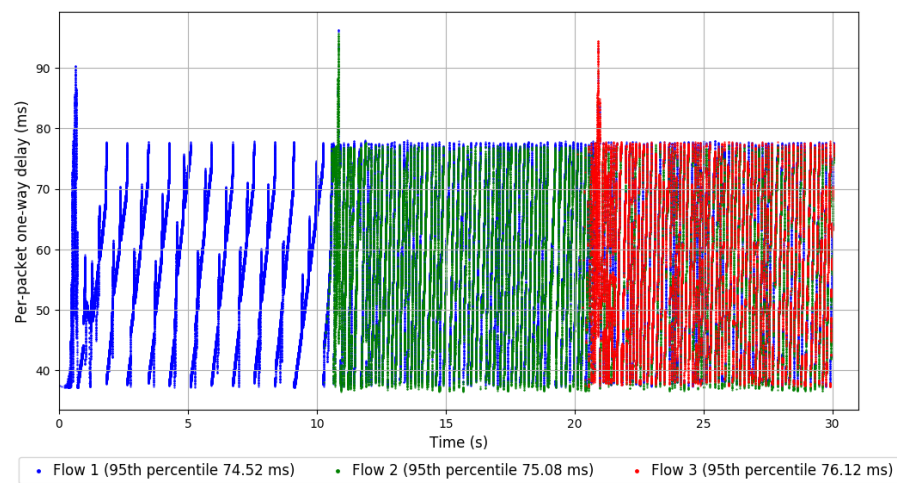
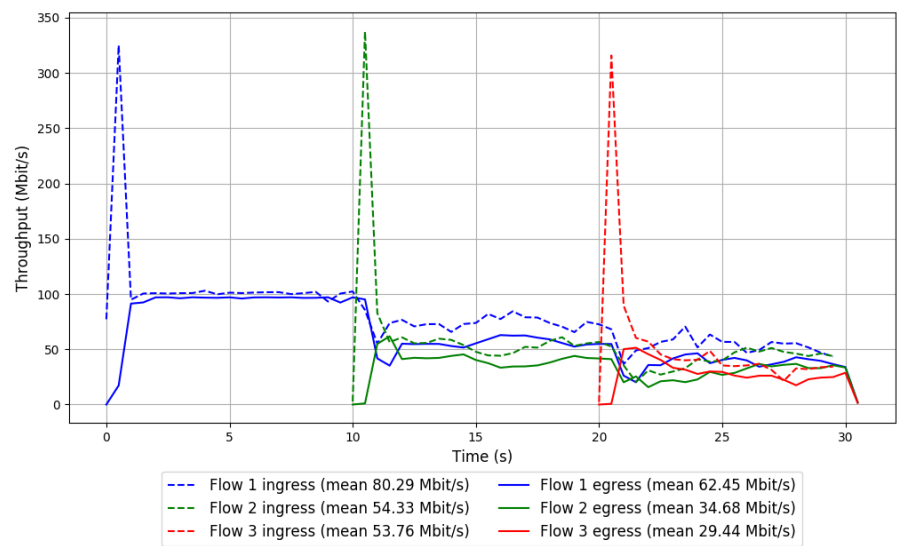
-- Flow 3:

Average throughput: 29.44 Mbit/s

95th percentile per-packet one-way delay: 76.124 ms

Loss rate: 45.24%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-07-24 14:47:55

End at: 2018-07-24 14:48:25

Local clock offset: 4.094 ms

Remote clock offset: 4.468 ms

Below is generated by plot.py at 2018-07-24 18:21:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.28 Mbit/s

95th percentile per-packet one-way delay: 74.629 ms

Loss rate: 26.15%

-- Flow 1:

Average throughput: 61.47 Mbit/s

95th percentile per-packet one-way delay: 74.458 ms

Loss rate: 21.56%

-- Flow 2:

Average throughput: 36.28 Mbit/s

95th percentile per-packet one-way delay: 74.832 ms

Loss rate: 35.15%

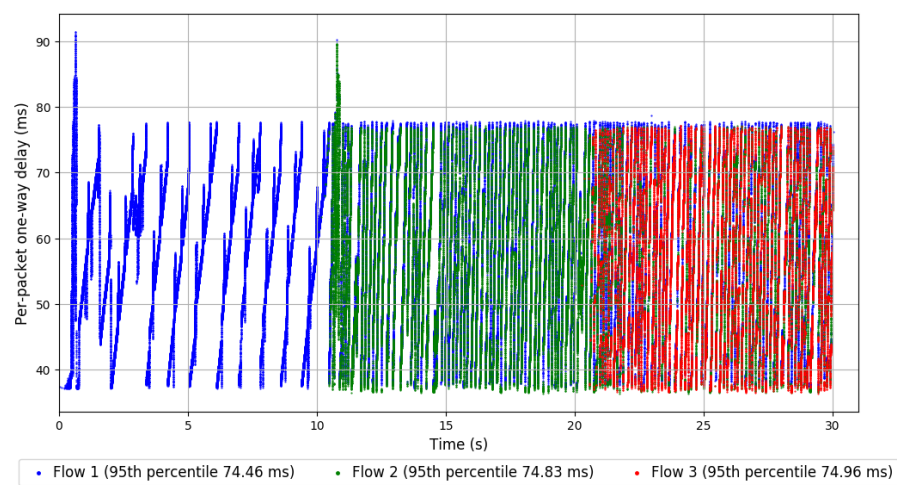
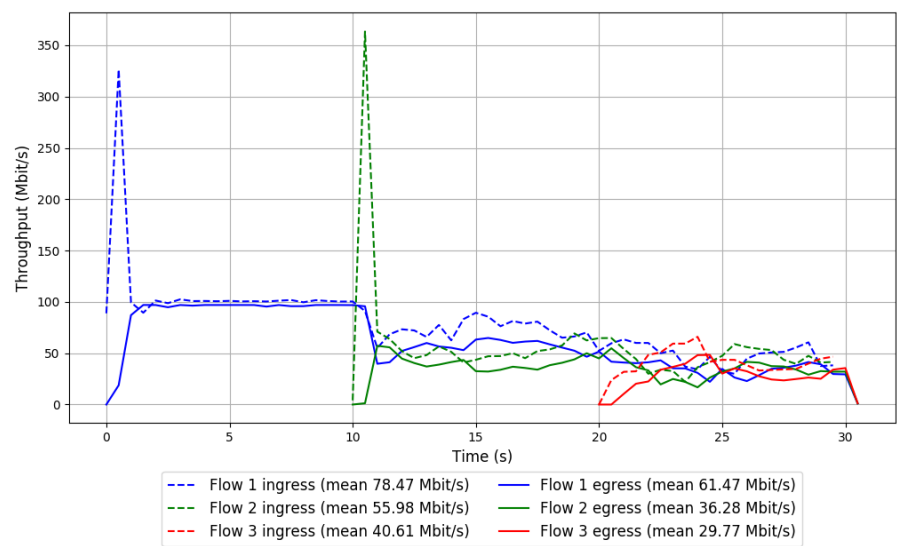
-- Flow 3:

Average throughput: 29.77 Mbit/s

95th percentile per-packet one-way delay: 74.958 ms

Loss rate: 28.01%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-07-24 15:11:06

End at: 2018-07-24 15:11:36

Local clock offset: 1.918 ms

Remote clock offset: 1.892 ms

Below is generated by plot.py at 2018-07-24 18:21:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.22 Mbit/s

95th percentile per-packet one-way delay: 71.582 ms

Loss rate: 25.40%

-- Flow 1:

Average throughput: 61.96 Mbit/s

95th percentile per-packet one-way delay: 71.118 ms

Loss rate: 21.67%

-- Flow 2:

Average throughput: 33.33 Mbit/s

95th percentile per-packet one-way delay: 72.063 ms

Loss rate: 27.73%

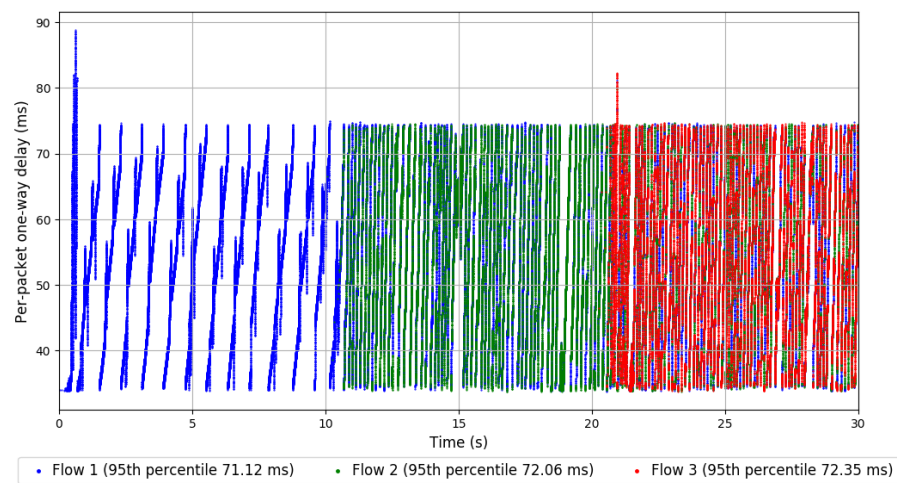
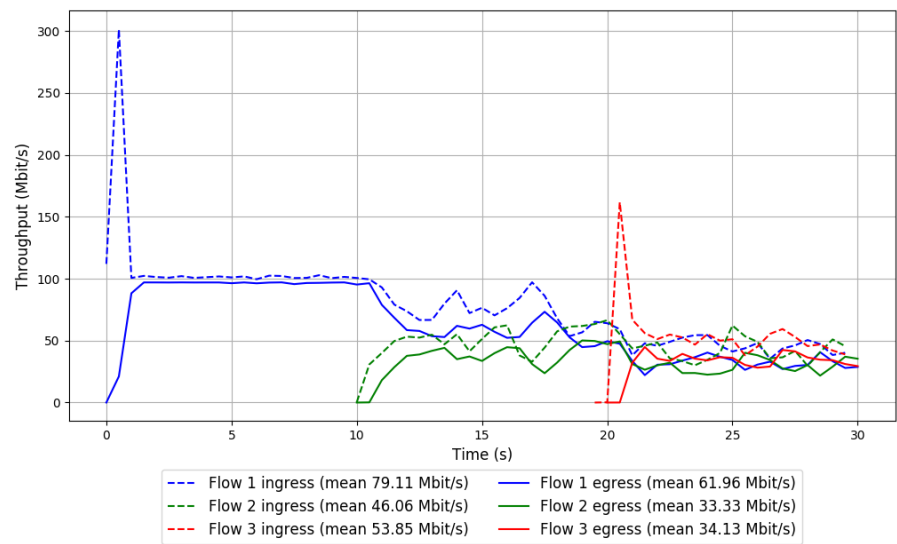
-- Flow 3:

Average throughput: 34.13 Mbit/s

95th percentile per-packet one-way delay: 72.352 ms

Loss rate: 37.95%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-07-24 15:34:03

End at: 2018-07-24 15:34:33

Local clock offset: 0.094 ms

Remote clock offset: 4.374 ms

Below is generated by plot.py at 2018-07-24 18:21:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.25 Mbit/s

95th percentile per-packet one-way delay: 74.576 ms

Loss rate: 26.86%

-- Flow 1:

Average throughput: 58.75 Mbit/s

95th percentile per-packet one-way delay: 74.376 ms

Loss rate: 22.31%

-- Flow 2:

Average throughput: 39.17 Mbit/s

95th percentile per-packet one-way delay: 74.611 ms

Loss rate: 34.08%

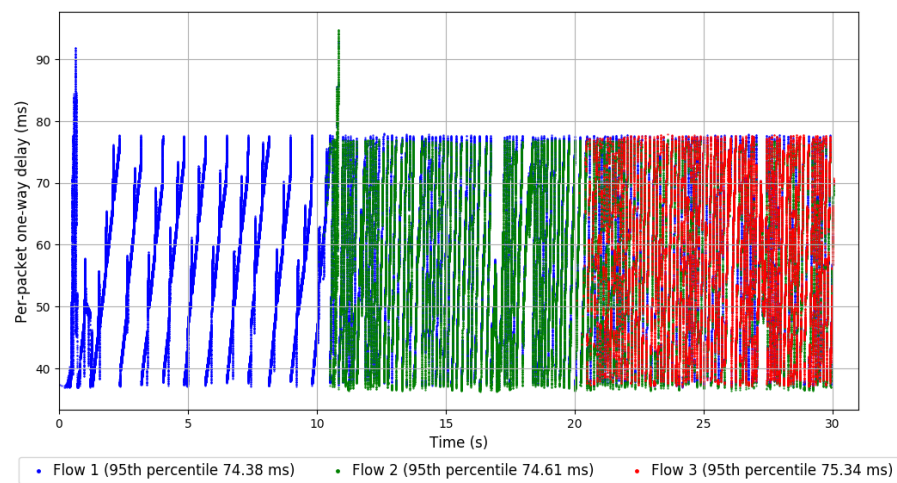
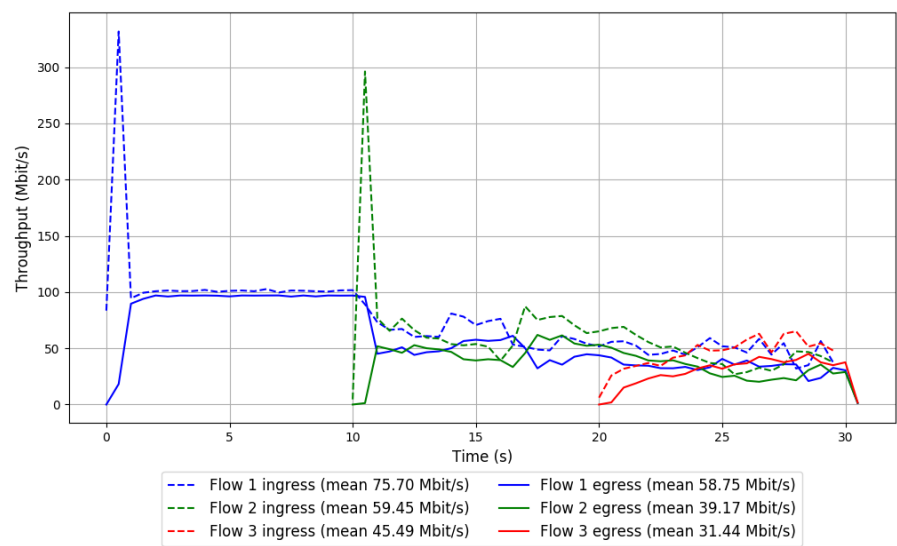
-- Flow 3:

Average throughput: 31.44 Mbit/s

95th percentile per-packet one-way delay: 75.342 ms

Loss rate: 30.74%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-07-24 15:57:09

End at: 2018-07-24 15:57:39

Local clock offset: -0.523 ms

Remote clock offset: 2.16 ms

Below is generated by plot.py at 2018-07-24 18:21:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.17 Mbit/s

95th percentile per-packet one-way delay: 71.819 ms

Loss rate: 28.66%

-- Flow 1:

Average throughput: 56.66 Mbit/s

95th percentile per-packet one-way delay: 71.159 ms

Loss rate: 21.78%

-- Flow 2:

Average throughput: 39.48 Mbit/s

95th percentile per-packet one-way delay: 72.450 ms

Loss rate: 34.18%

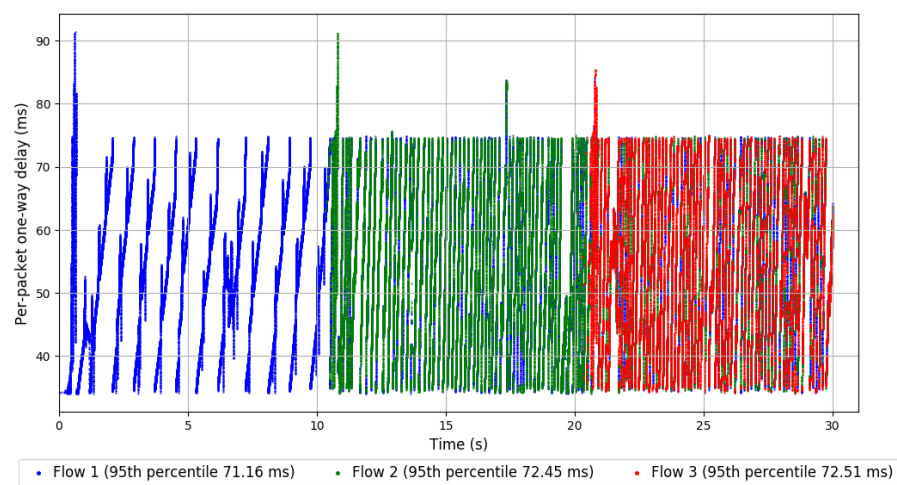
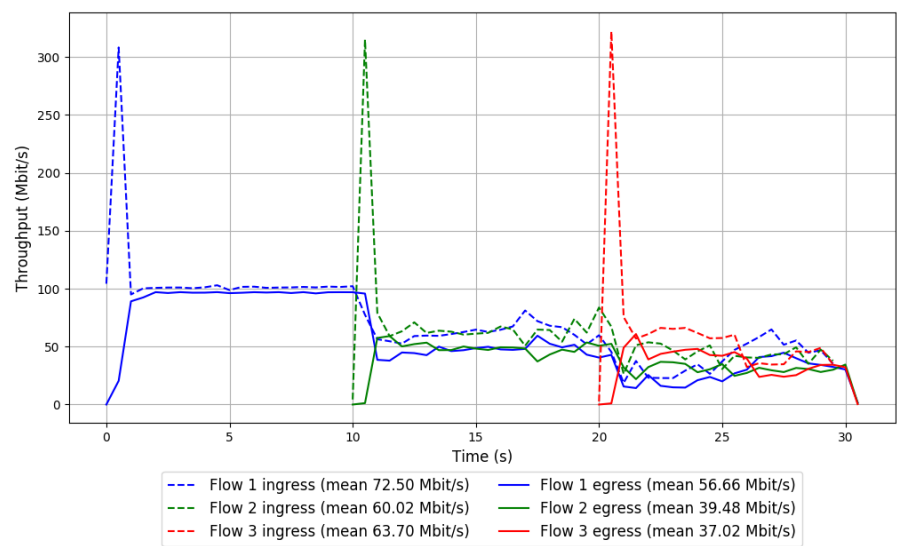
-- Flow 3:

Average throughput: 37.02 Mbit/s

95th percentile per-packet one-way delay: 72.510 ms

Loss rate: 41.88%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-07-24 16:20:00

End at: 2018-07-24 16:20:30

Local clock offset: 0.67 ms

Remote clock offset: 2.544 ms

Below is generated by plot.py at 2018-07-24 18:21:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.30 Mbit/s

95th percentile per-packet one-way delay: 72.274 ms

Loss rate: 25.98%

-- Flow 1:

Average throughput: 63.35 Mbit/s

95th percentile per-packet one-way delay: 71.977 ms

Loss rate: 20.60%

-- Flow 2:

Average throughput: 35.83 Mbit/s

95th percentile per-packet one-way delay: 72.775 ms

Loss rate: 33.90%

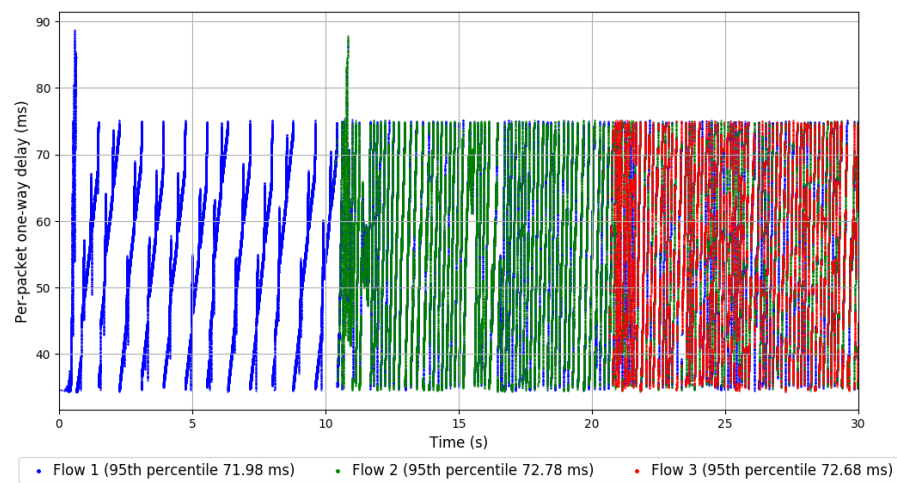
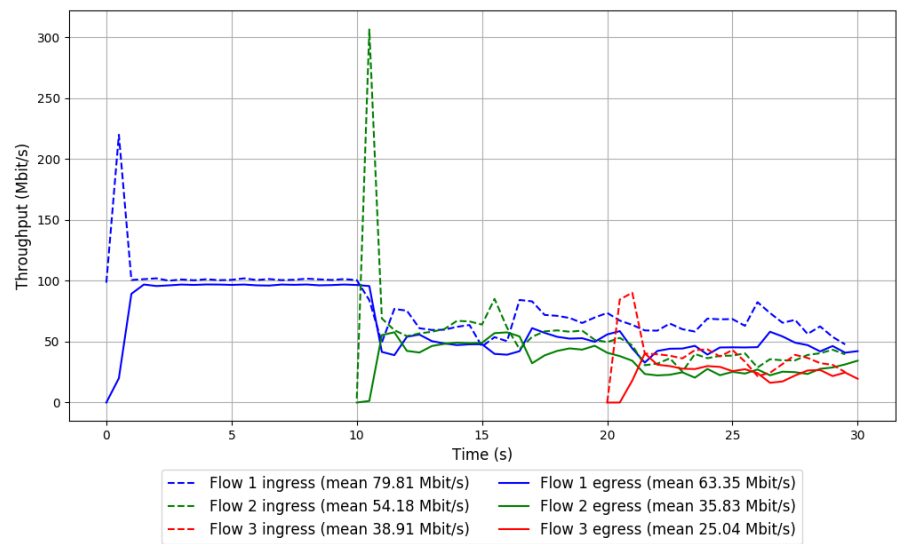
-- Flow 3:

Average throughput: 25.04 Mbit/s

95th percentile per-packet one-way delay: 72.683 ms

Loss rate: 37.10%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-07-24 16:43:00

End at: 2018-07-24 16:43:30

Local clock offset: 0.907 ms

Remote clock offset: 2.878 ms

Below is generated by plot.py at 2018-07-24 18:22:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.45 Mbit/s

95th percentile per-packet one-way delay: 72.678 ms

Loss rate: 27.96%

-- Flow 1:

Average throughput: 58.41 Mbit/s

95th percentile per-packet one-way delay: 72.329 ms

Loss rate: 22.45%

-- Flow 2:

Average throughput: 38.83 Mbit/s

95th percentile per-packet one-way delay: 73.311 ms

Loss rate: 31.40%

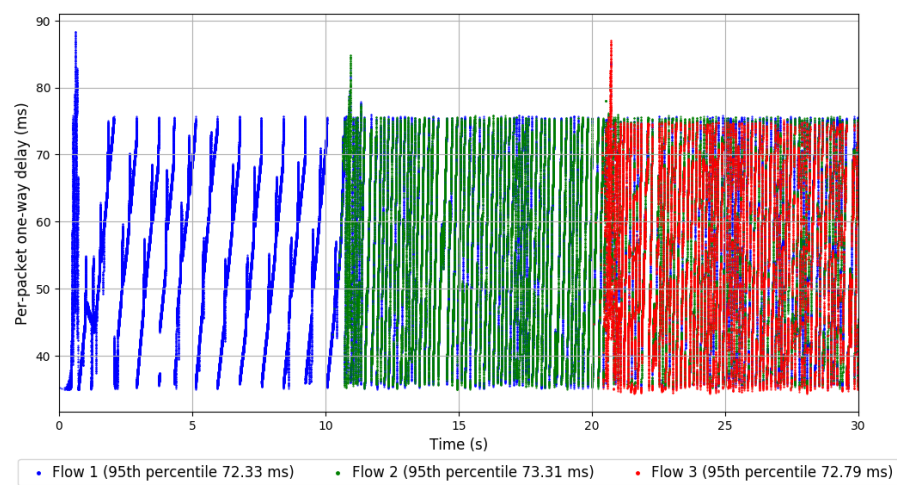
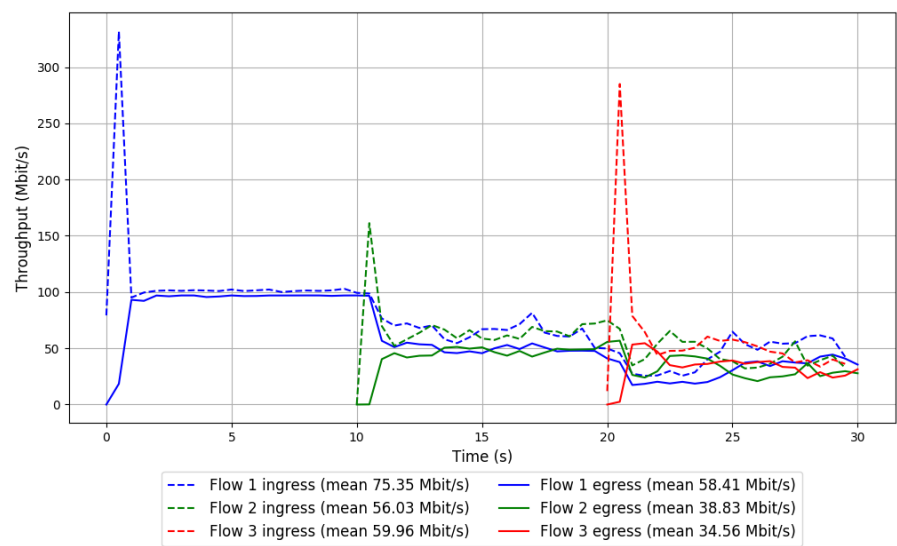
-- Flow 3:

Average throughput: 34.56 Mbit/s

95th percentile per-packet one-way delay: 72.790 ms

Loss rate: 42.36%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-07-24 17:05:58

End at: 2018-07-24 17:06:28

Local clock offset: 0.665 ms

Remote clock offset: 1.917 ms

Below is generated by plot.py at 2018-07-24 18:22:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.95 Mbit/s

95th percentile per-packet one-way delay: 72.228 ms

Loss rate: 27.09%

-- Flow 1:

Average throughput: 57.14 Mbit/s

95th percentile per-packet one-way delay: 71.481 ms

Loss rate: 21.56%

-- Flow 2:

Average throughput: 37.22 Mbit/s

95th percentile per-packet one-way delay: 72.716 ms

Loss rate: 30.63%

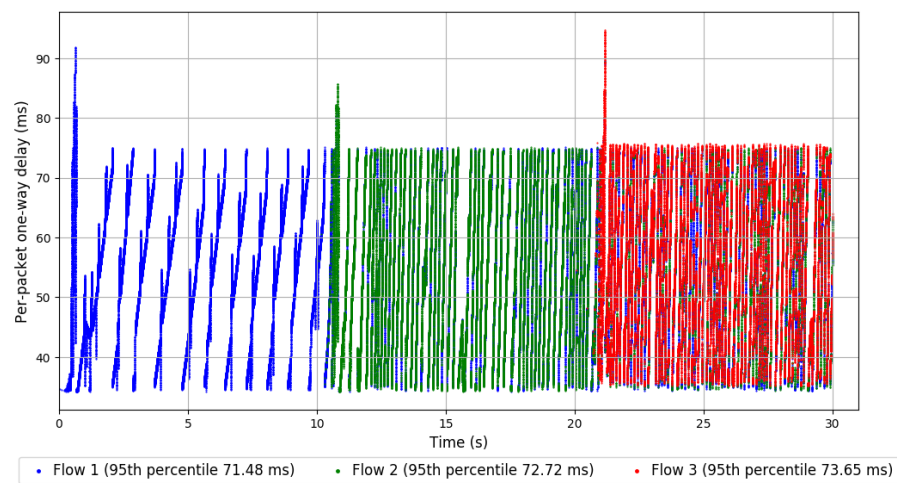
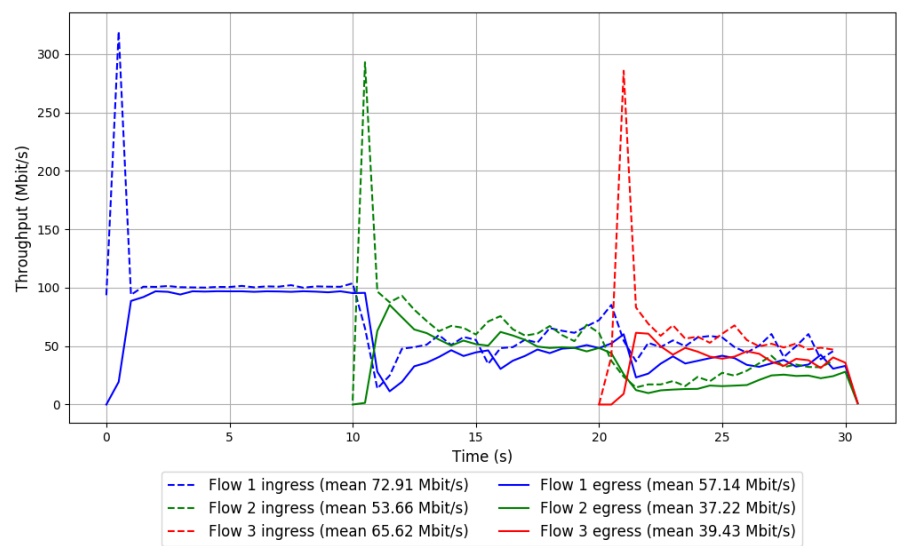
-- Flow 3:

Average throughput: 39.43 Mbit/s

95th percentile per-packet one-way delay: 73.649 ms

Loss rate: 39.85%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-07-24 17:28:54

End at: 2018-07-24 17:29:24

Local clock offset: 0.14 ms

Remote clock offset: 1.802 ms

Below is generated by plot.py at 2018-07-24 18:23:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.19 Mbit/s

95th percentile per-packet one-way delay: 72.140 ms

Loss rate: 27.34%

-- Flow 1:

Average throughput: 59.45 Mbit/s

95th percentile per-packet one-way delay: 71.427 ms

Loss rate: 21.97%

-- Flow 2:

Average throughput: 36.75 Mbit/s

95th percentile per-packet one-way delay: 72.677 ms

Loss rate: 35.15%

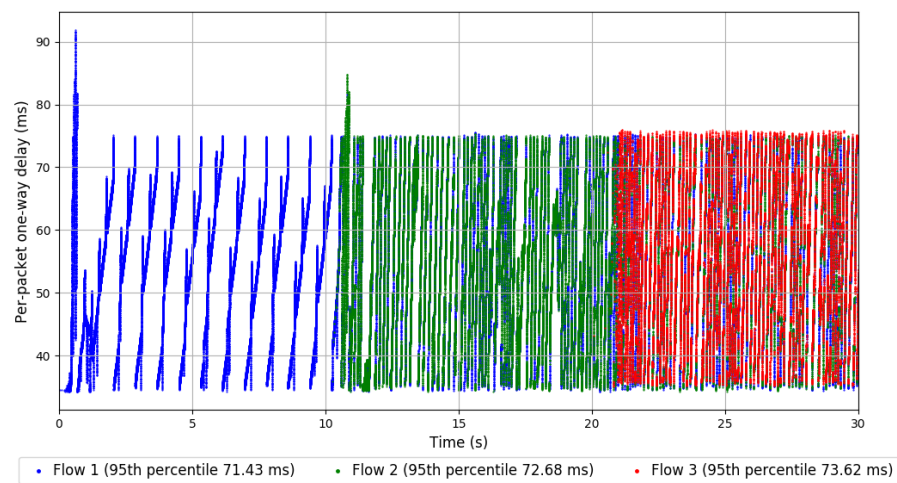
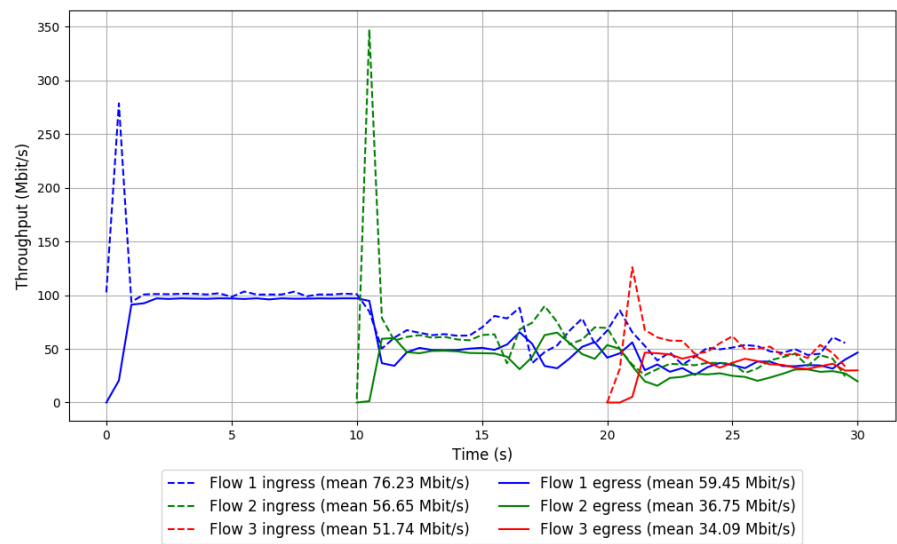
-- Flow 3:

Average throughput: 34.09 Mbit/s

95th percentile per-packet one-way delay: 73.621 ms

Loss rate: 34.05%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-07-24 17:51:45

End at: 2018-07-24 17:52:15

Local clock offset: 3.657 ms

Remote clock offset: 1.695 ms

Below is generated by plot.py at 2018-07-24 18:23:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.90 Mbit/s

95th percentile per-packet one-way delay: 72.455 ms

Loss rate: 26.16%

-- Flow 1:

Average throughput: 58.14 Mbit/s

95th percentile per-packet one-way delay: 72.240 ms

Loss rate: 22.71%

-- Flow 2:

Average throughput: 39.73 Mbit/s

95th percentile per-packet one-way delay: 72.456 ms

Loss rate: 31.41%

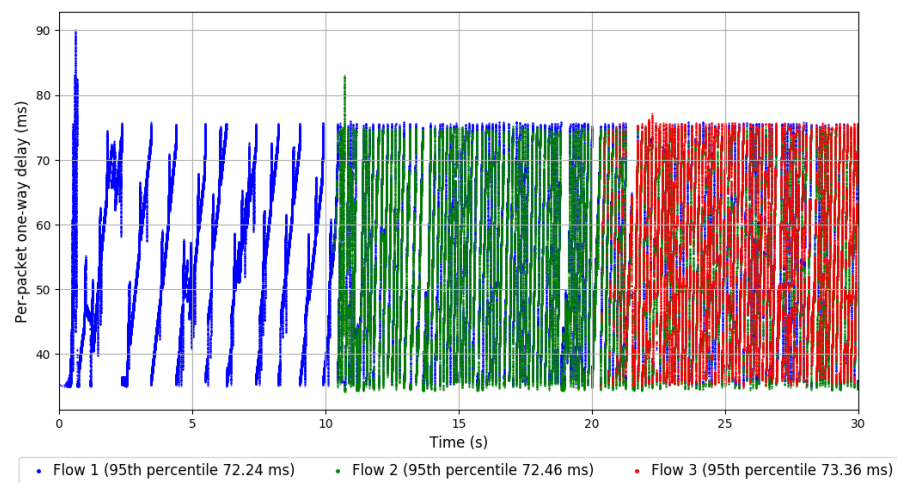
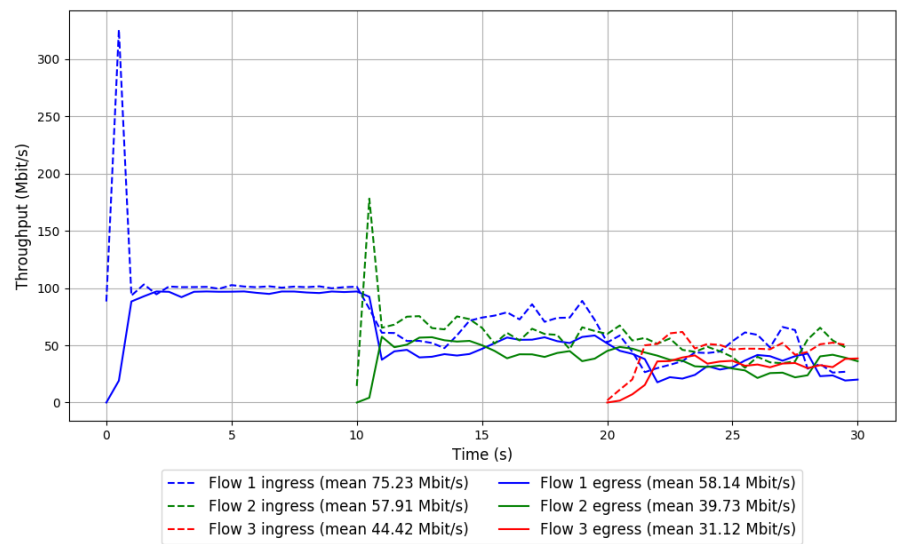
-- Flow 3:

Average throughput: 31.12 Mbit/s

95th percentile per-packet one-way delay: 73.360 ms

Loss rate: 30.07%

Run 10: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2018-07-24 14:26:15

End at: 2018-07-24 14:26:45

Local clock offset: 0.625 ms

Remote clock offset: 4.406 ms

Below is generated by plot.py at 2018-07-24 18:23:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.37 Mbit/s

95th percentile per-packet one-way delay: 73.774 ms

Loss rate: 20.39%

-- Flow 1:

Average throughput: 58.32 Mbit/s

95th percentile per-packet one-way delay: 72.894 ms

Loss rate: 14.07%

-- Flow 2:

Average throughput: 40.15 Mbit/s

95th percentile per-packet one-way delay: 74.316 ms

Loss rate: 25.71%

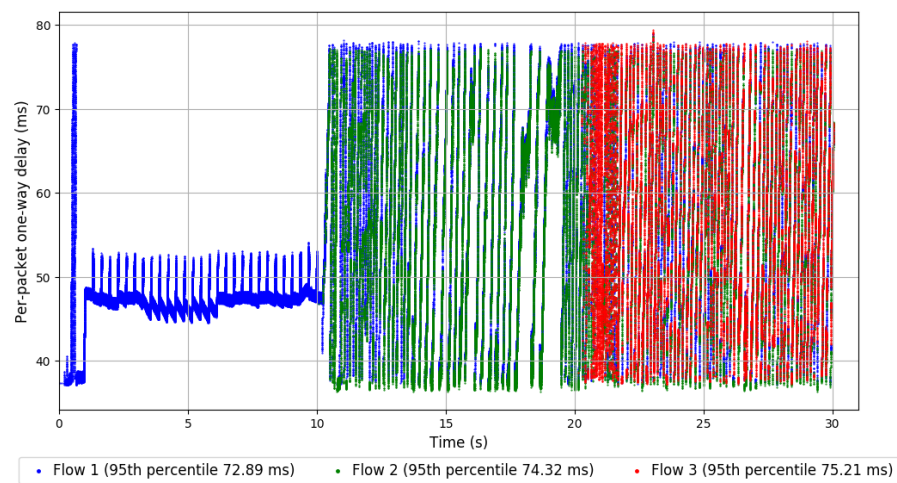
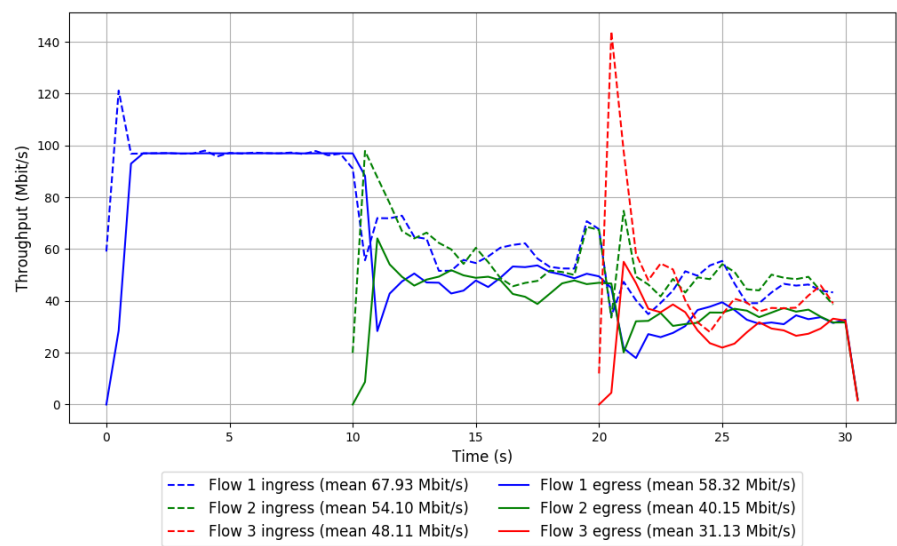
-- Flow 3:

Average throughput: 31.13 Mbit/s

95th percentile per-packet one-way delay: 75.214 ms

Loss rate: 35.25%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-07-24 14:49:16

End at: 2018-07-24 14:49:46

Local clock offset: 4.205 ms

Remote clock offset: 4.478 ms

Below is generated by plot.py at 2018-07-24 18:23:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.76 Mbit/s

95th percentile per-packet one-way delay: 73.605 ms

Loss rate: 18.91%

-- Flow 1:

Average throughput: 56.25 Mbit/s

95th percentile per-packet one-way delay: 72.160 ms

Loss rate: 13.37%

-- Flow 2:

Average throughput: 41.74 Mbit/s

95th percentile per-packet one-way delay: 74.359 ms

Loss rate: 24.38%

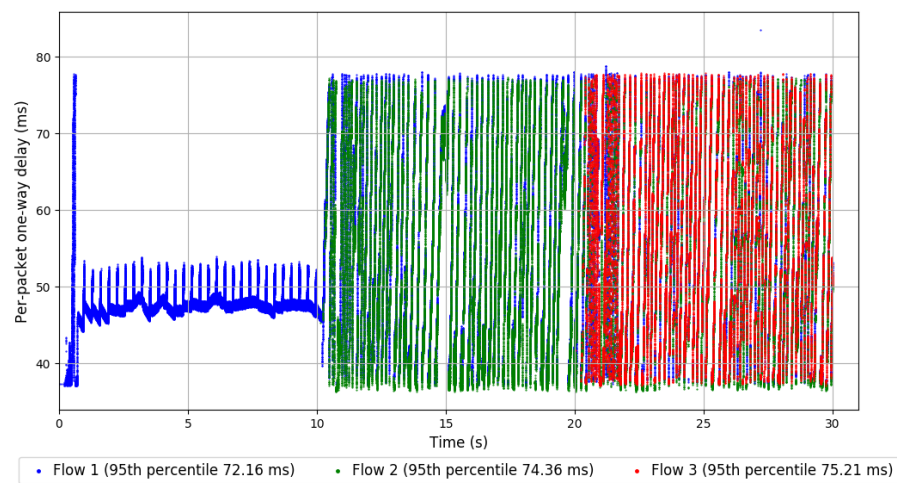
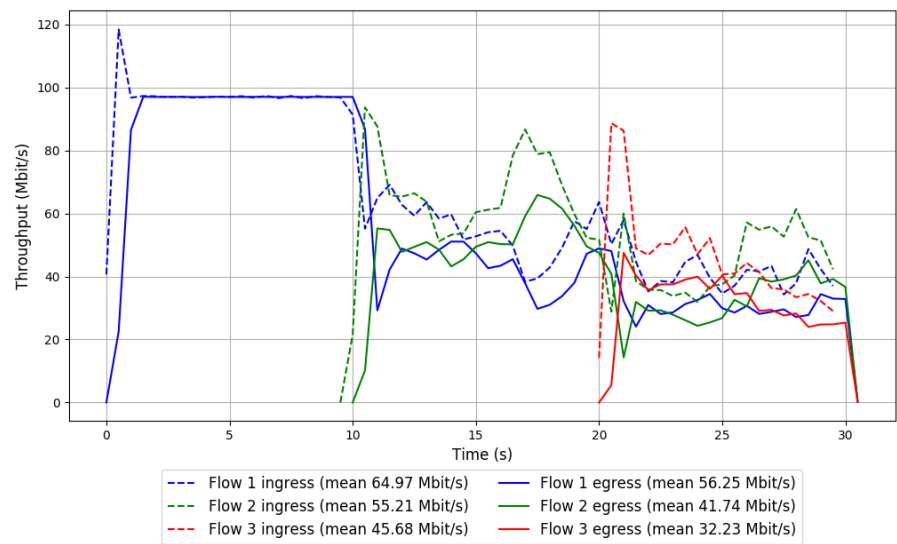
-- Flow 3:

Average throughput: 32.23 Mbit/s

95th percentile per-packet one-way delay: 75.214 ms

Loss rate: 29.37%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2018-07-24 15:12:27

End at: 2018-07-24 15:12:57

Local clock offset: 1.754 ms

Remote clock offset: 4.233 ms

Below is generated by plot.py at 2018-07-24 18:23:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.48 Mbit/s

95th percentile per-packet one-way delay: 73.657 ms

Loss rate: 21.38%

-- Flow 1:

Average throughput: 60.38 Mbit/s

95th percentile per-packet one-way delay: 72.419 ms

Loss rate: 15.70%

-- Flow 2:

Average throughput: 37.34 Mbit/s

95th percentile per-packet one-way delay: 74.980 ms

Loss rate: 28.99%

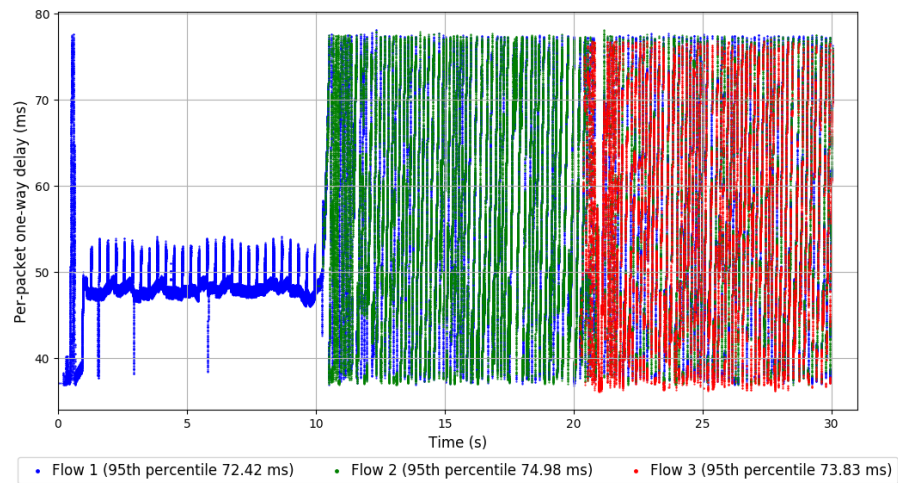
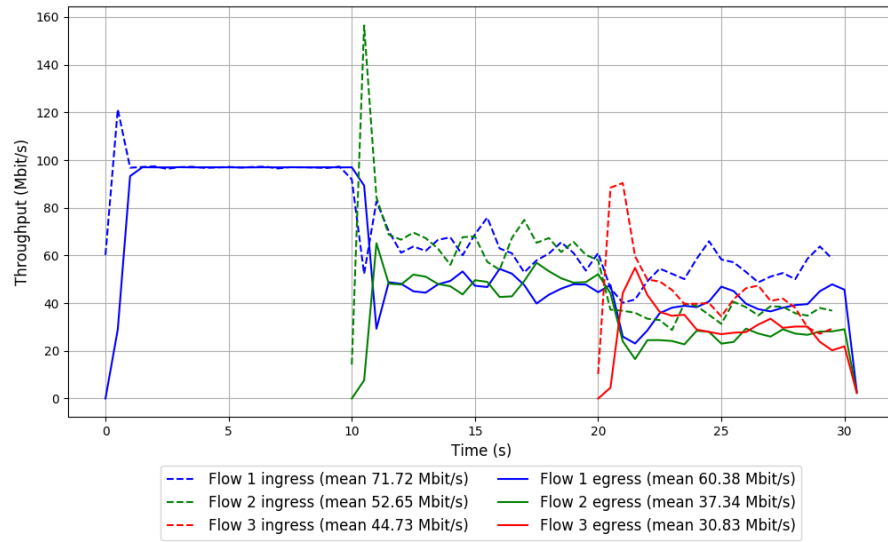
-- Flow 3:

Average throughput: 30.83 Mbit/s

95th percentile per-packet one-way delay: 73.834 ms

Loss rate: 30.83%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2018-07-24 15:35:25

End at: 2018-07-24 15:35:55

Local clock offset: -0.046 ms

Remote clock offset: 4.306 ms

Below is generated by plot.py at 2018-07-24 18:23:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.97 Mbit/s

95th percentile per-packet one-way delay: 73.320 ms

Loss rate: 20.24%

-- Flow 1:

Average throughput: 57.29 Mbit/s

95th percentile per-packet one-way delay: 71.672 ms

Loss rate: 14.35%

-- Flow 2:

Average throughput: 40.17 Mbit/s

95th percentile per-packet one-way delay: 74.225 ms

Loss rate: 25.95%

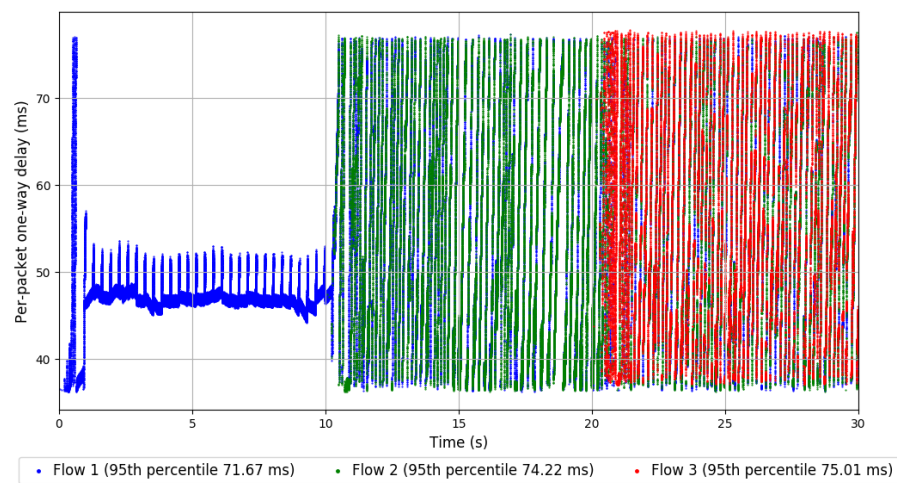
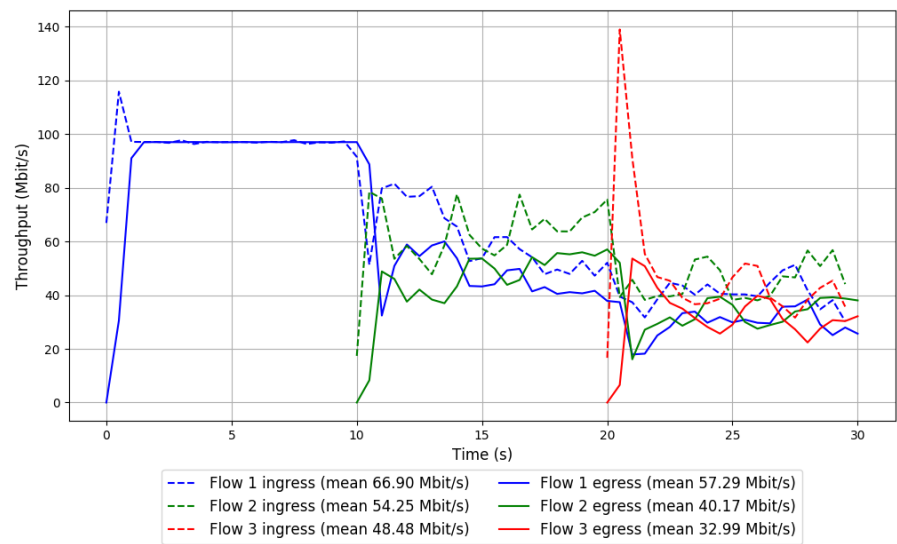
-- Flow 3:

Average throughput: 32.99 Mbit/s

95th percentile per-packet one-way delay: 75.008 ms

Loss rate: 31.95%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2018-07-24 15:58:30

End at: 2018-07-24 15:59:00

Local clock offset: -0.47 ms

Remote clock offset: 2.158 ms

Below is generated by plot.py at 2018-07-24 18:23:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.18 Mbit/s

95th percentile per-packet one-way delay: 70.876 ms

Loss rate: 19.46%

-- Flow 1:

Average throughput: 57.85 Mbit/s

95th percentile per-packet one-way delay: 69.352 ms

Loss rate: 13.75%

-- Flow 2:

Average throughput: 40.63 Mbit/s

95th percentile per-packet one-way delay: 72.069 ms

Loss rate: 26.19%

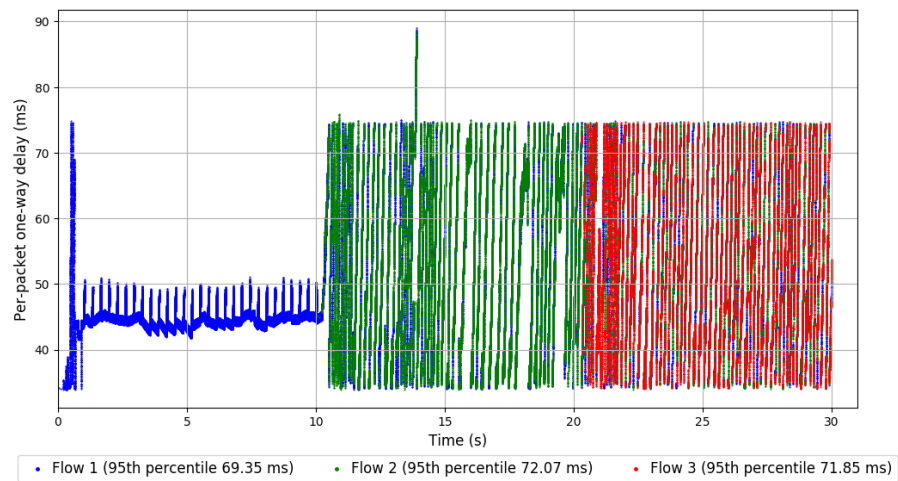
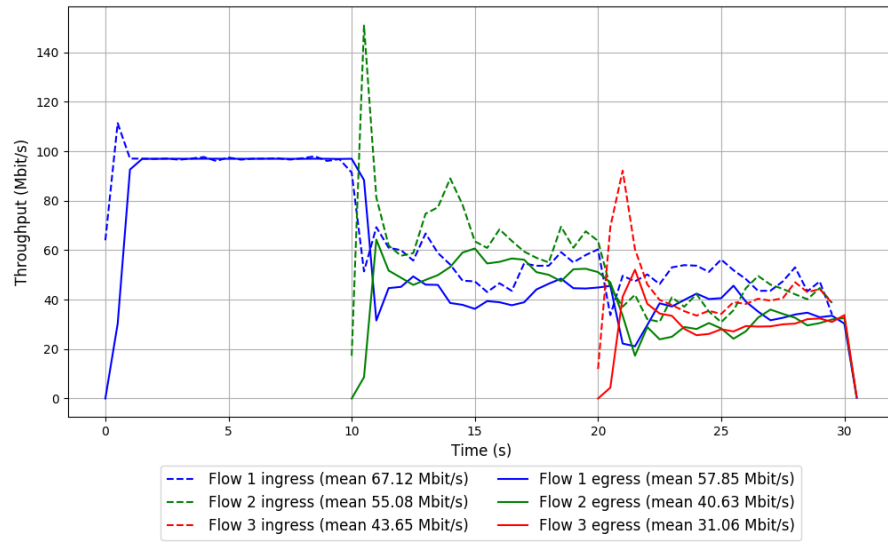
-- Flow 3:

Average throughput: 31.06 Mbit/s

95th percentile per-packet one-way delay: 71.850 ms

Loss rate: 28.89%

Run 5: Report of FillP-Sheep — Data Link



Run 6: Statistics of FillP-Sheep

Start at: 2018-07-24 16:21:22

End at: 2018-07-24 16:21:52

Local clock offset: 0.788 ms

Remote clock offset: 2.528 ms

Below is generated by plot.py at 2018-07-24 18:23:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.11 Mbit/s

95th percentile per-packet one-way delay: 71.463 ms

Loss rate: 19.21%

-- Flow 1:

Average throughput: 60.62 Mbit/s

95th percentile per-packet one-way delay: 70.119 ms

Loss rate: 13.58%

-- Flow 2:

Average throughput: 36.89 Mbit/s

95th percentile per-packet one-way delay: 72.864 ms

Loss rate: 23.55%

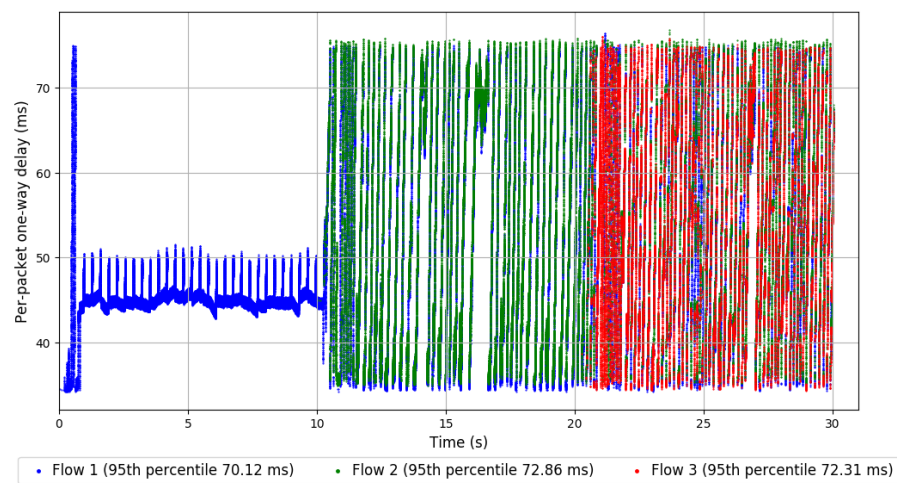
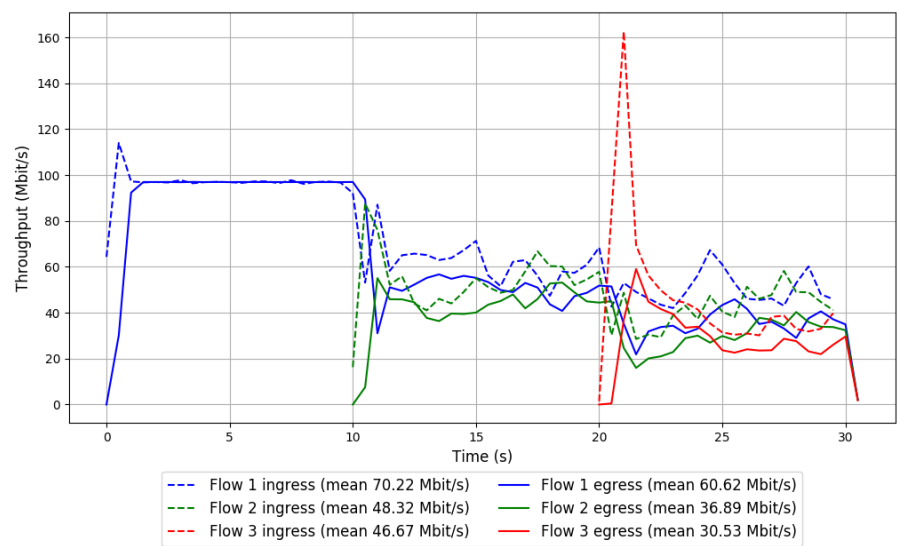
-- Flow 3:

Average throughput: 30.53 Mbit/s

95th percentile per-packet one-way delay: 72.311 ms

Loss rate: 35.71%

Run 6: Report of FillP-Sheep — Data Link



Run 7: Statistics of FillP-Sheep

Start at: 2018-07-24 16:44:21

End at: 2018-07-24 16:44:51

Local clock offset: 0.817 ms

Remote clock offset: 2.919 ms

Below is generated by plot.py at 2018-07-24 18:24:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.25 Mbit/s

95th percentile per-packet one-way delay: 71.309 ms

Loss rate: 18.66%

-- Flow 1:

Average throughput: 58.07 Mbit/s

95th percentile per-packet one-way delay: 69.614 ms

Loss rate: 13.51%

-- Flow 2:

Average throughput: 42.04 Mbit/s

95th percentile per-packet one-way delay: 72.410 ms

Loss rate: 23.73%

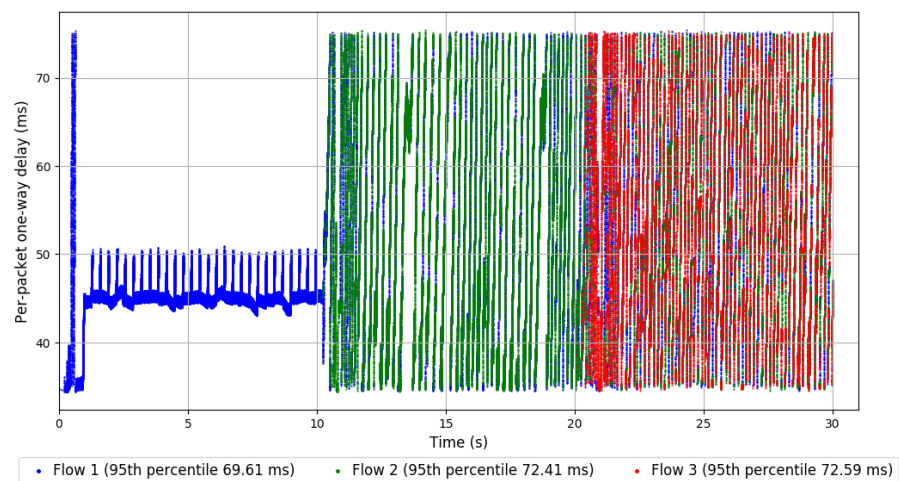
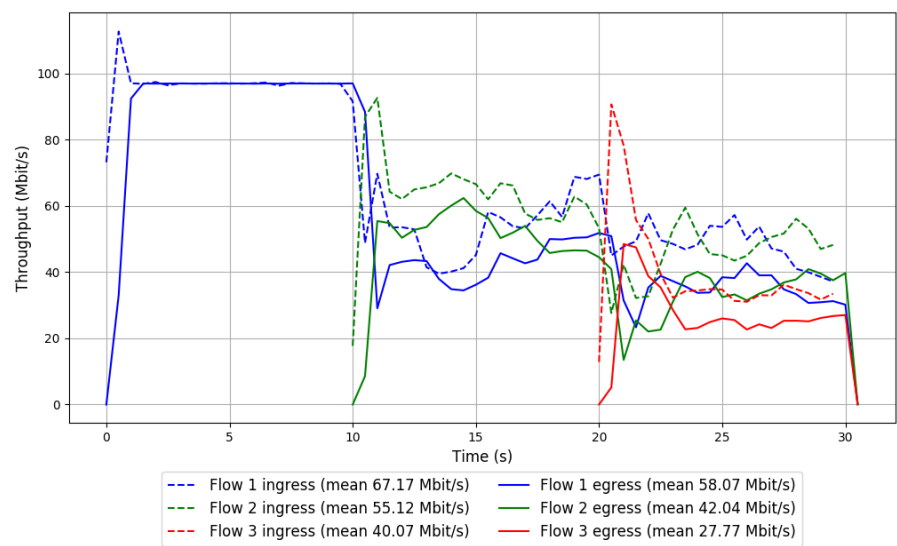
-- Flow 3:

Average throughput: 27.77 Mbit/s

95th percentile per-packet one-way delay: 72.594 ms

Loss rate: 30.65%

Run 7: Report of FillP-Sheep — Data Link



Run 8: Statistics of FillP-Sheep

Start at: 2018-07-24 17:07:19

End at: 2018-07-24 17:07:49

Local clock offset: 0.73 ms

Remote clock offset: 1.987 ms

Below is generated by plot.py at 2018-07-24 18:24:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.79 Mbit/s

95th percentile per-packet one-way delay: 71.293 ms

Loss rate: 20.42%

-- Flow 1:

Average throughput: 56.64 Mbit/s

95th percentile per-packet one-way delay: 70.215 ms

Loss rate: 14.52%

-- Flow 2:

Average throughput: 42.63 Mbit/s

95th percentile per-packet one-way delay: 72.145 ms

Loss rate: 26.66%

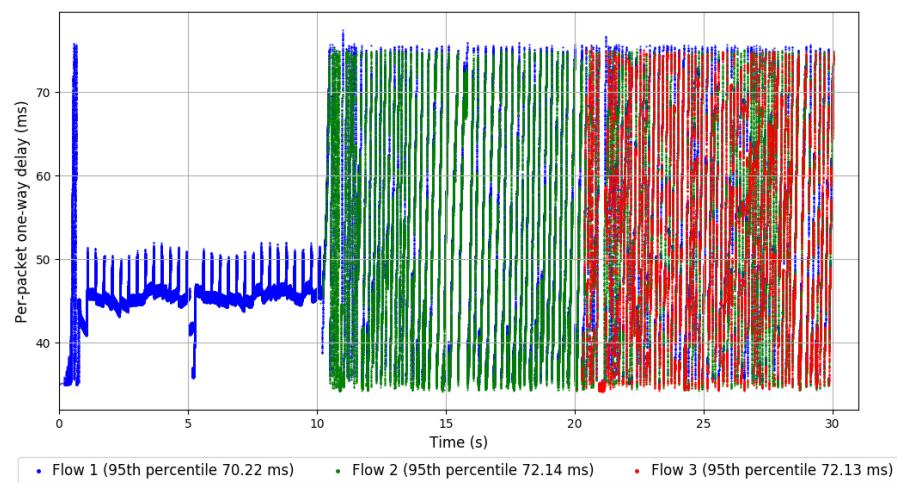
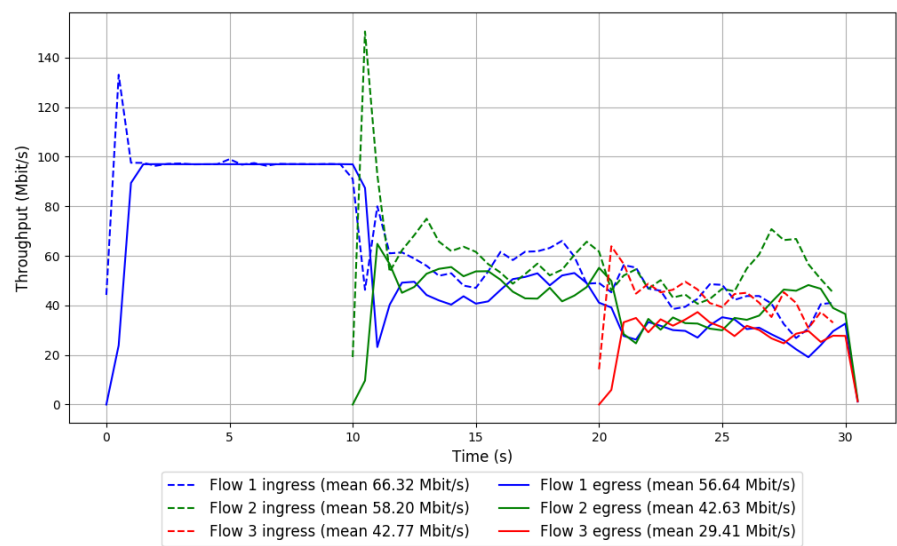
-- Flow 3:

Average throughput: 29.41 Mbit/s

95th percentile per-packet one-way delay: 72.134 ms

Loss rate: 30.99%

Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

Start at: 2018-07-24 17:30:15

End at: 2018-07-24 17:30:45

Local clock offset: 0.203 ms

Remote clock offset: 1.755 ms

Below is generated by plot.py at 2018-07-24 18:24:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.87 Mbit/s

95th percentile per-packet one-way delay: 71.797 ms

Loss rate: 20.63%

-- Flow 1:

Average throughput: 60.71 Mbit/s

95th percentile per-packet one-way delay: 70.606 ms

Loss rate: 15.13%

-- Flow 2:

Average throughput: 35.58 Mbit/s

95th percentile per-packet one-way delay: 72.774 ms

Loss rate: 26.09%

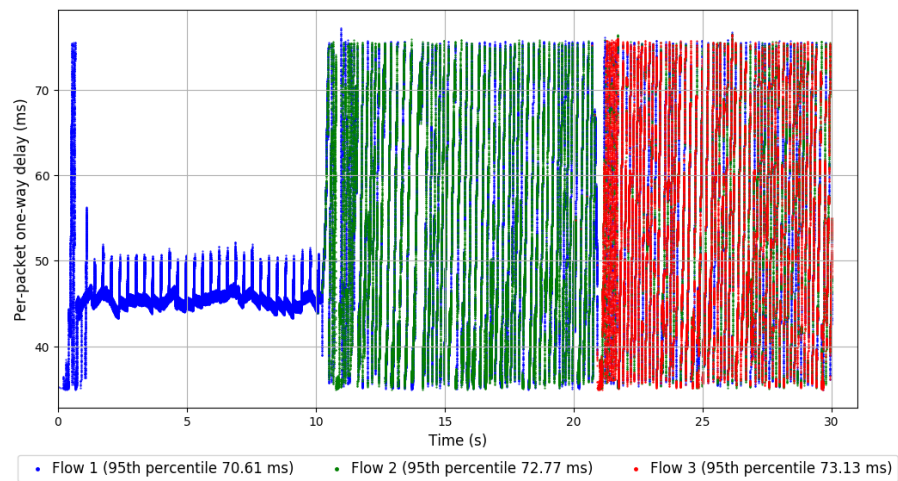
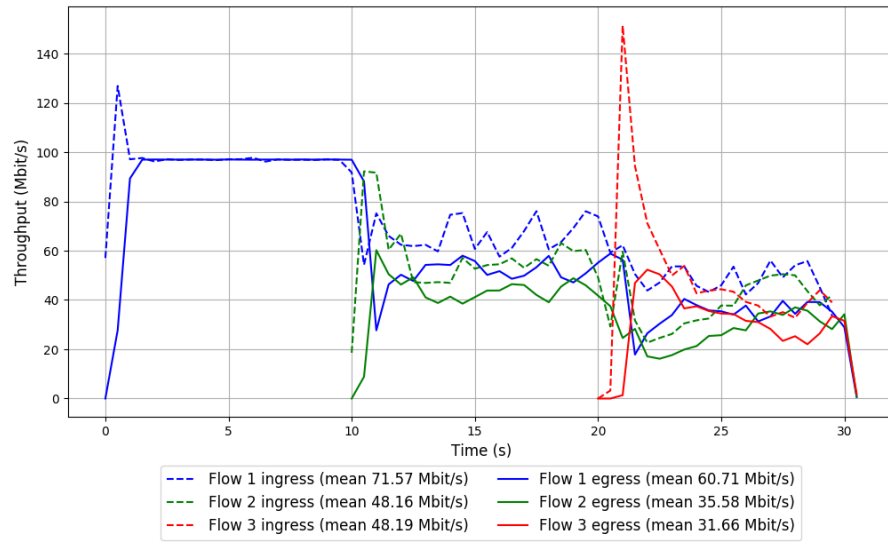
-- Flow 3:

Average throughput: 31.66 Mbit/s

95th percentile per-packet one-way delay: 73.127 ms

Loss rate: 34.32%

Run 9: Report of FillP-Sheep — Data Link



Run 10: Statistics of FillP-Sheep

Start at: 2018-07-24 17:53:08

End at: 2018-07-24 17:53:38

Local clock offset: 3.76 ms

Remote clock offset: 1.772 ms

Below is generated by plot.py at 2018-07-24 18:24:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.27 Mbit/s

95th percentile per-packet one-way delay: 71.344 ms

Loss rate: 20.03%

-- Flow 1:

Average throughput: 57.30 Mbit/s

95th percentile per-packet one-way delay: 69.760 ms

Loss rate: 13.59%

-- Flow 2:

Average throughput: 41.97 Mbit/s

95th percentile per-packet one-way delay: 72.439 ms

Loss rate: 24.81%

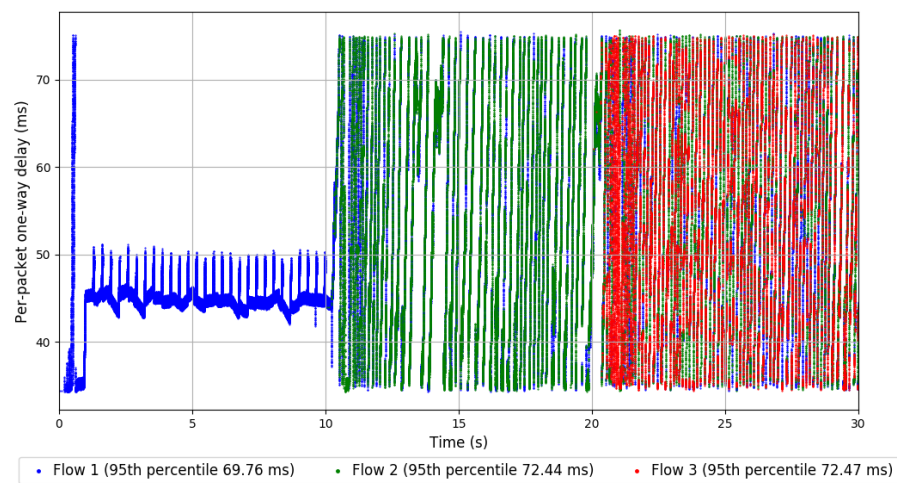
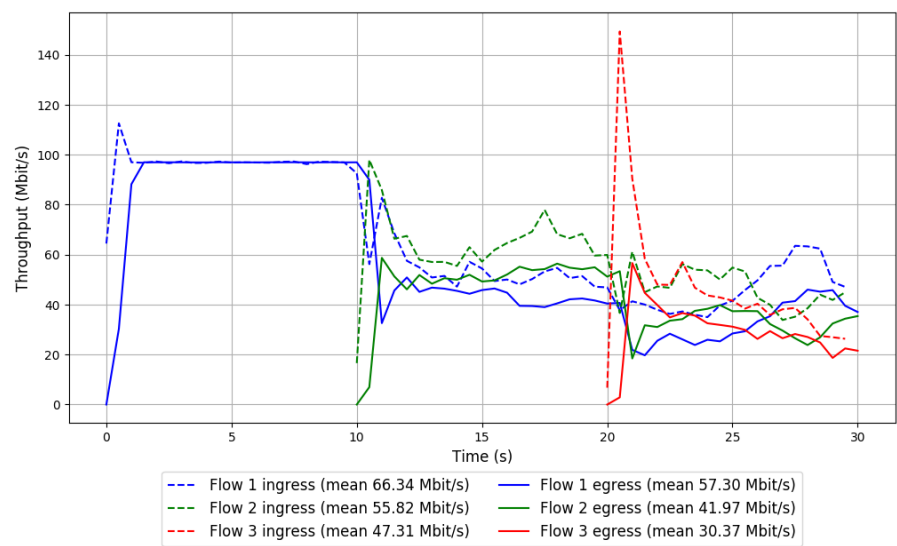
-- Flow 3:

Average throughput: 30.37 Mbit/s

95th percentile per-packet one-way delay: 72.474 ms

Loss rate: 35.92%

Run 10: Report of FillP-Sheep — Data Link

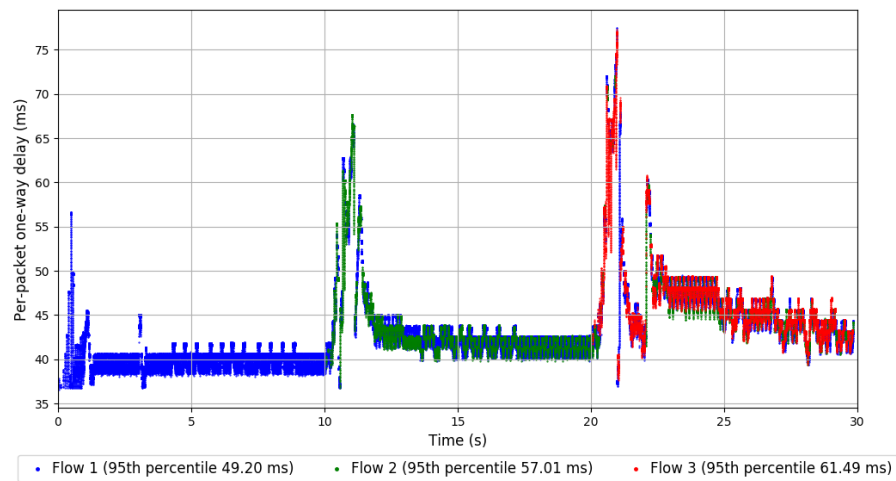
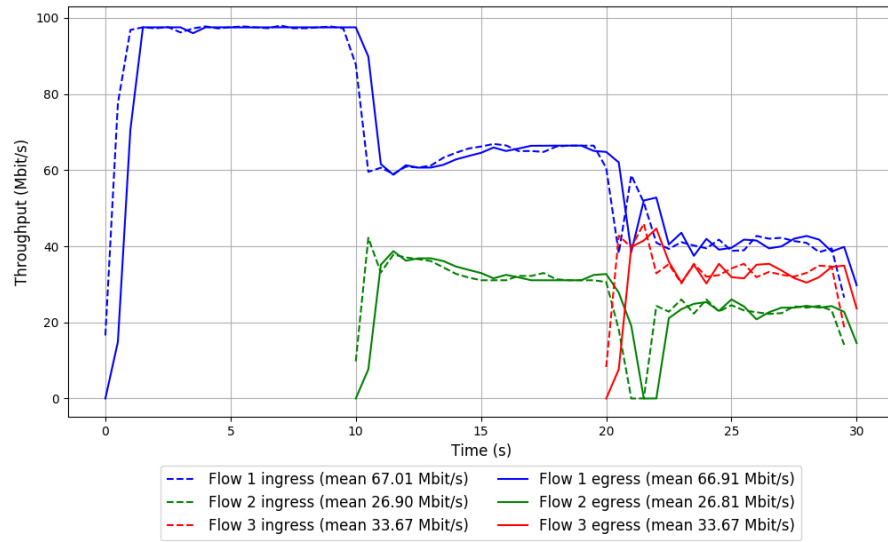


```
Run 1: Statistics of Indigo

Start at: 2018-07-24 14:34:15
End at: 2018-07-24 14:34:45
Local clock offset: 1.571 ms
Remote clock offset: 4.344 ms

# Below is generated by plot.py at 2018-07-24 18:24:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.70 Mbit/s
95th percentile per-packet one-way delay: 51.938 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 66.91 Mbit/s
95th percentile per-packet one-way delay: 49.196 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 26.81 Mbit/s
95th percentile per-packet one-way delay: 57.012 ms
Loss rate: 0.30%
-- Flow 3:
Average throughput: 33.67 Mbit/s
95th percentile per-packet one-way delay: 61.486 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-07-24 14:57:17

End at: 2018-07-24 14:57:47

Local clock offset: 4.893 ms

Remote clock offset: 4.692 ms

Below is generated by plot.py at 2018-07-24 18:24:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.57 Mbit/s

95th percentile per-packet one-way delay: 56.787 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 68.87 Mbit/s

95th percentile per-packet one-way delay: 53.607 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 25.40 Mbit/s

95th percentile per-packet one-way delay: 59.505 ms

Loss rate: 0.00%

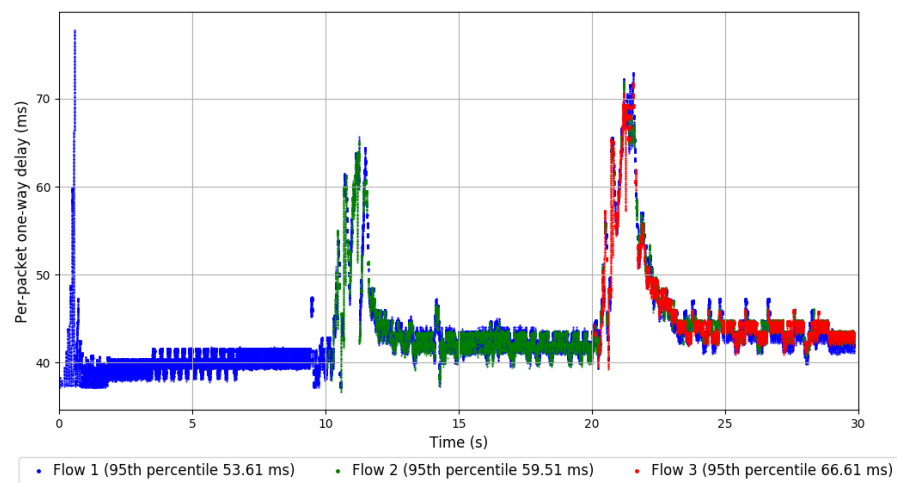
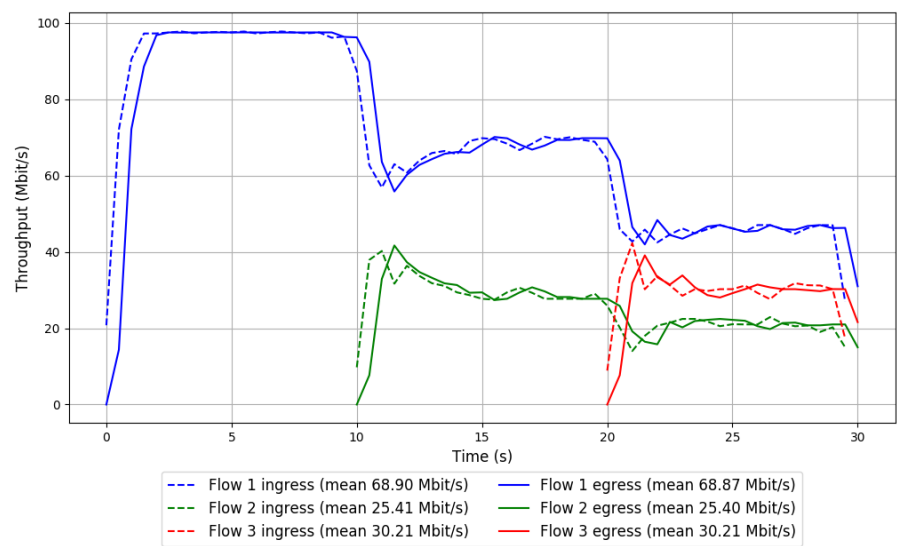
-- Flow 3:

Average throughput: 30.21 Mbit/s

95th percentile per-packet one-way delay: 66.609 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-07-24 15:20:30

End at: 2018-07-24 15:21:01

Local clock offset: 0.682 ms

Remote clock offset: 4.186 ms

Below is generated by plot.py at 2018-07-24 18:24:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.28 Mbit/s

95th percentile per-packet one-way delay: 63.397 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 61.97 Mbit/s

95th percentile per-packet one-way delay: 59.405 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 34.02 Mbit/s

95th percentile per-packet one-way delay: 65.936 ms

Loss rate: 0.53%

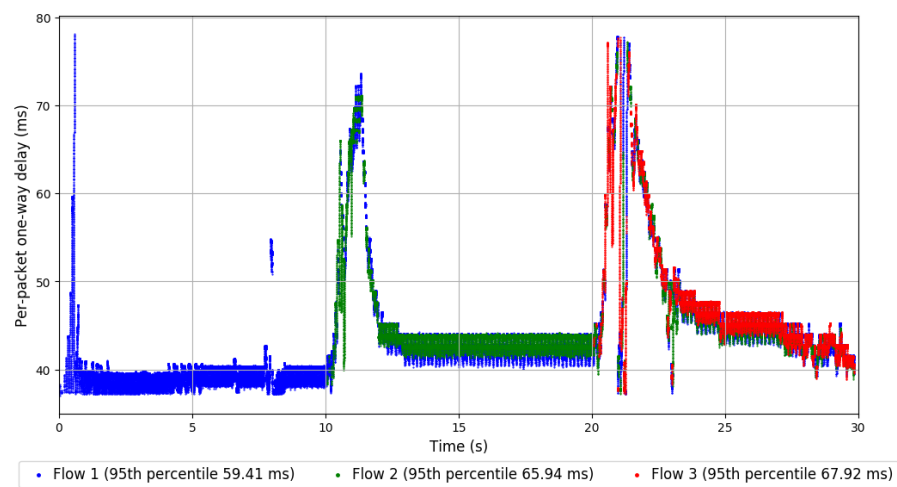
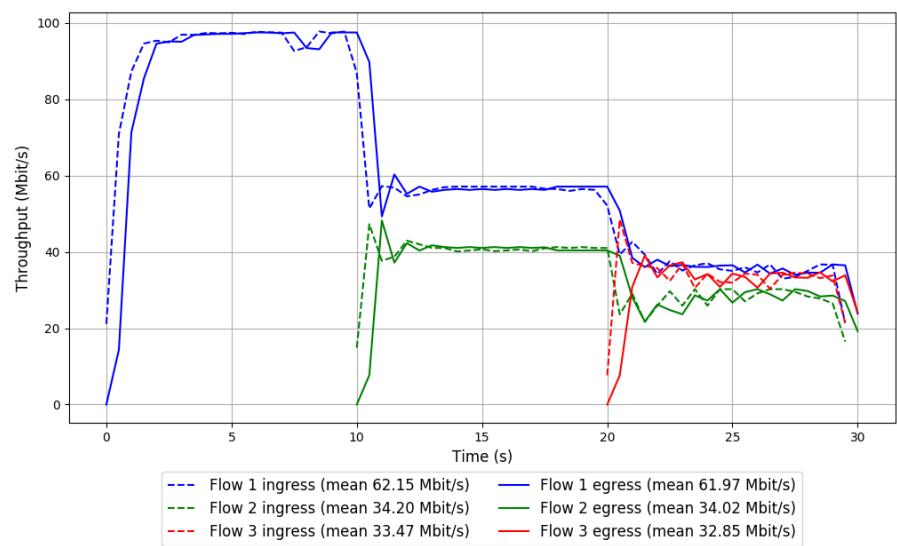
-- Flow 3:

Average throughput: 32.85 Mbit/s

95th percentile per-packet one-way delay: 67.921 ms

Loss rate: 1.88%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-07-24 15:43:28

End at: 2018-07-24 15:43:58

Local clock offset: -0.236 ms

Remote clock offset: 4.372 ms

Below is generated by plot.py at 2018-07-24 18:24:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.29 Mbit/s

95th percentile per-packet one-way delay: 57.546 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 61.81 Mbit/s

95th percentile per-packet one-way delay: 54.927 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 33.41 Mbit/s

95th percentile per-packet one-way delay: 60.958 ms

Loss rate: 0.00%

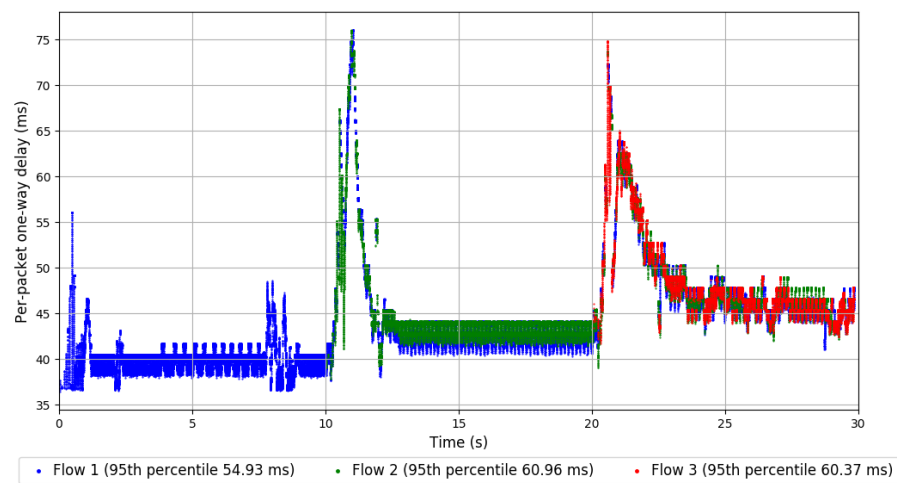
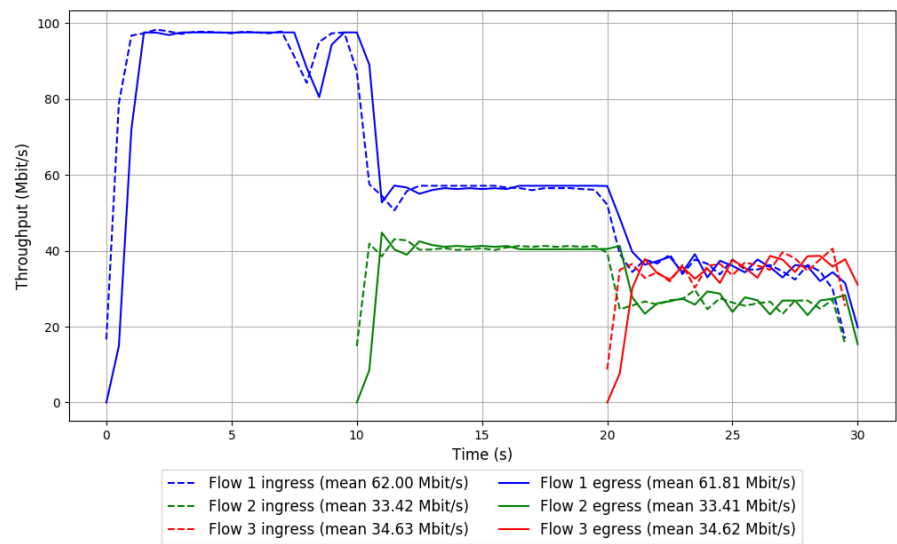
-- Flow 3:

Average throughput: 34.62 Mbit/s

95th percentile per-packet one-way delay: 60.373 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-07-24 16:06:30

End at: 2018-07-24 16:07:00

Local clock offset: -0.033 ms

Remote clock offset: 2.525 ms

Below is generated by plot.py at 2018-07-24 18:25:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.67 Mbit/s

95th percentile per-packet one-way delay: 56.528 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 61.09 Mbit/s

95th percentile per-packet one-way delay: 52.604 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 37.01 Mbit/s

95th percentile per-packet one-way delay: 59.049 ms

Loss rate: 0.00%

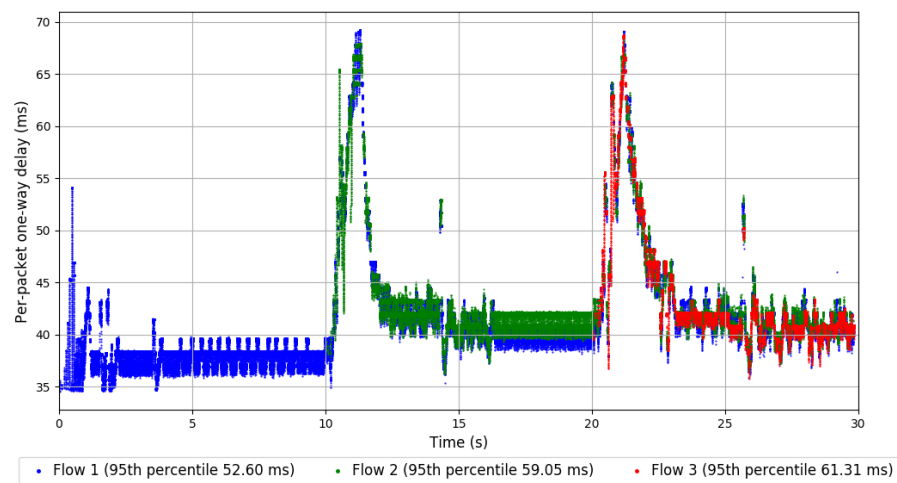
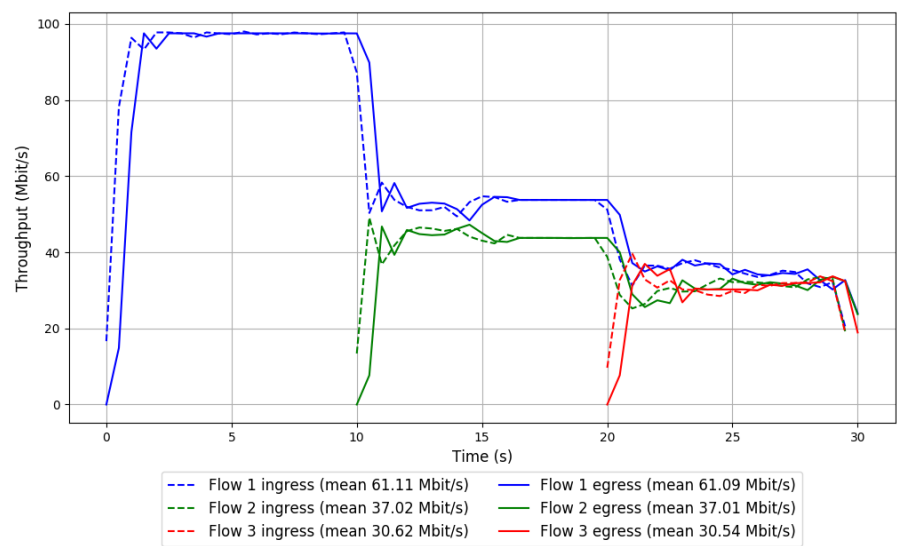
-- Flow 3:

Average throughput: 30.54 Mbit/s

95th percentile per-packet one-way delay: 61.309 ms

Loss rate: 0.23%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-07-24 16:29:26

End at: 2018-07-24 16:29:56

Local clock offset: 0.856 ms

Remote clock offset: 2.56 ms

Below is generated by plot.py at 2018-07-24 18:25:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.80 Mbit/s

95th percentile per-packet one-way delay: 52.475 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 63.41 Mbit/s

95th percentile per-packet one-way delay: 48.593 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 33.26 Mbit/s

95th percentile per-packet one-way delay: 55.893 ms

Loss rate: 0.00%

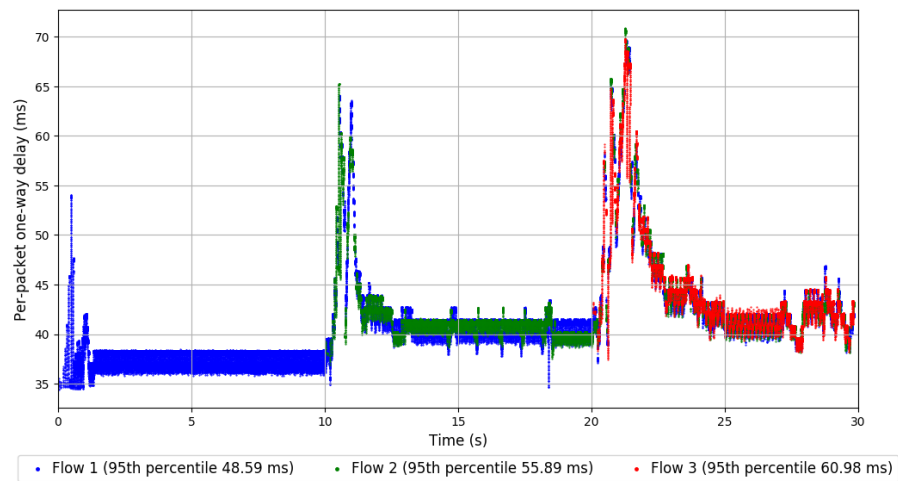
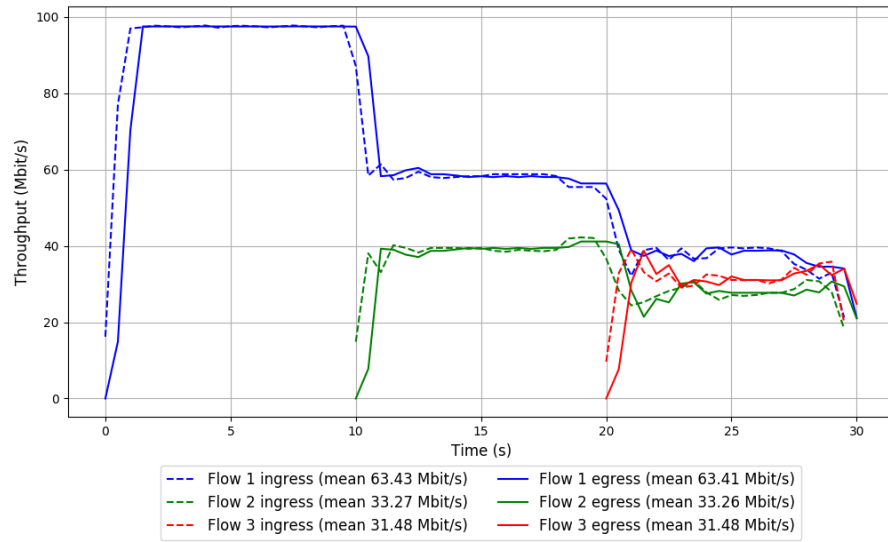
-- Flow 3:

Average throughput: 31.48 Mbit/s

95th percentile per-packet one-way delay: 60.975 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-07-24 16:52:25

End at: 2018-07-24 16:52:55

Local clock offset: 0.966 ms

Remote clock offset: 2.26 ms

Below is generated by plot.py at 2018-07-24 18:25:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.44 Mbit/s

95th percentile per-packet one-way delay: 44.379 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 67.98 Mbit/s

95th percentile per-packet one-way delay: 43.097 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 25.14 Mbit/s

95th percentile per-packet one-way delay: 45.443 ms

Loss rate: 0.18%

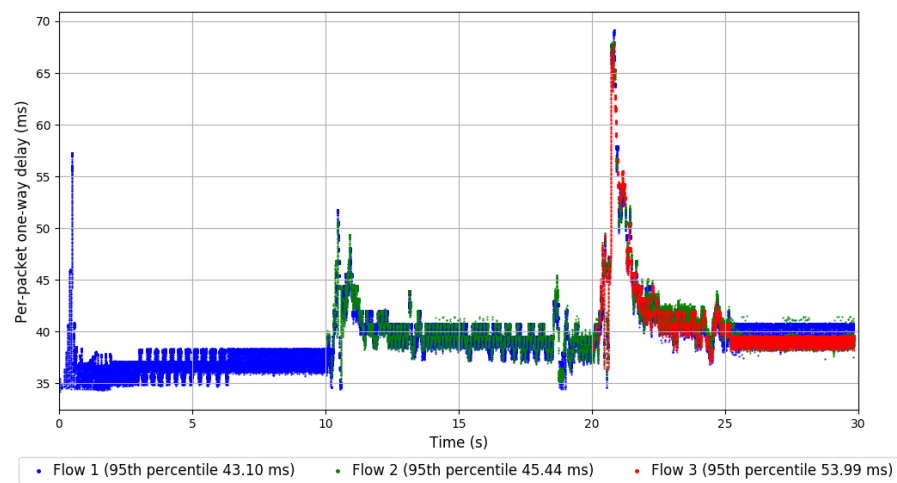
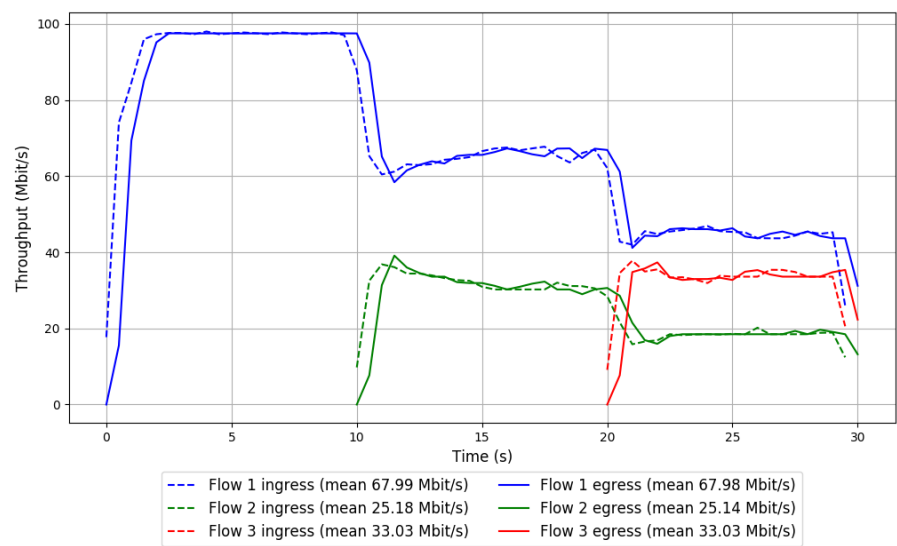
-- Flow 3:

Average throughput: 33.03 Mbit/s

95th percentile per-packet one-way delay: 53.994 ms

Loss rate: 0.01%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-07-24 17:15:21

End at: 2018-07-24 17:15:51

Local clock offset: 0.498 ms

Remote clock offset: 1.925 ms

Below is generated by plot.py at 2018-07-24 18:25:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.61 Mbit/s

95th percentile per-packet one-way delay: 47.748 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 68.40 Mbit/s

95th percentile per-packet one-way delay: 45.568 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 27.45 Mbit/s

95th percentile per-packet one-way delay: 50.490 ms

Loss rate: 0.00%

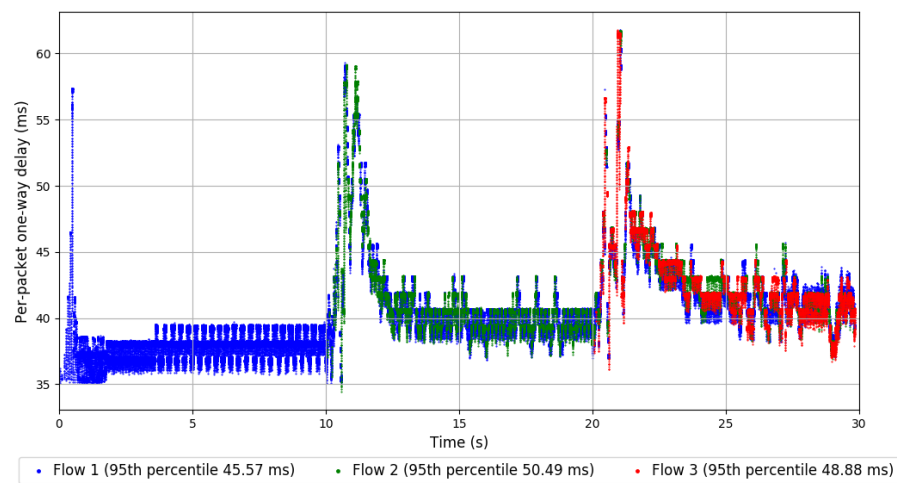
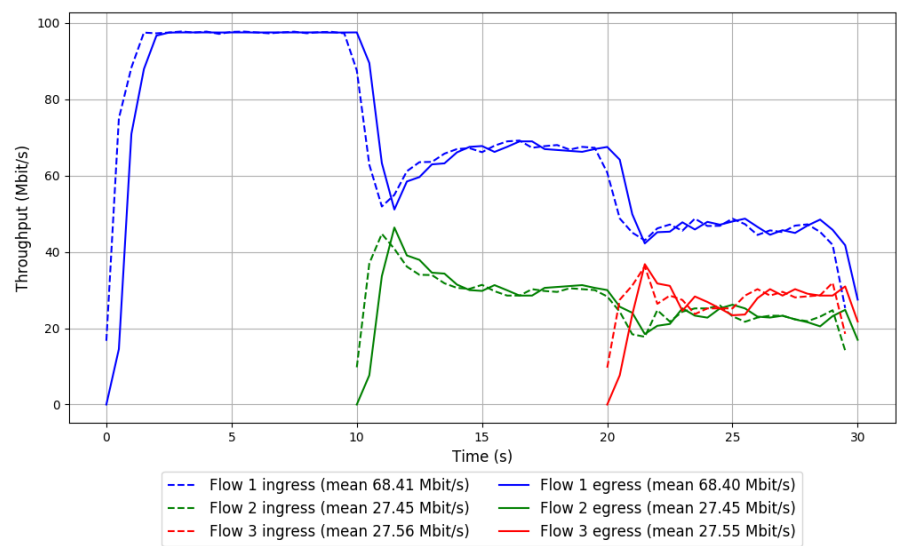
-- Flow 3:

Average throughput: 27.55 Mbit/s

95th percentile per-packet one-way delay: 48.883 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-07-24 17:38:15

End at: 2018-07-24 17:38:45

Local clock offset: 2.052 ms

Remote clock offset: 1.773 ms

Below is generated by plot.py at 2018-07-24 18:26:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.79 Mbit/s

95th percentile per-packet one-way delay: 50.629 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 68.61 Mbit/s

95th percentile per-packet one-way delay: 48.149 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 26.39 Mbit/s

95th percentile per-packet one-way delay: 53.045 ms

Loss rate: 0.00%

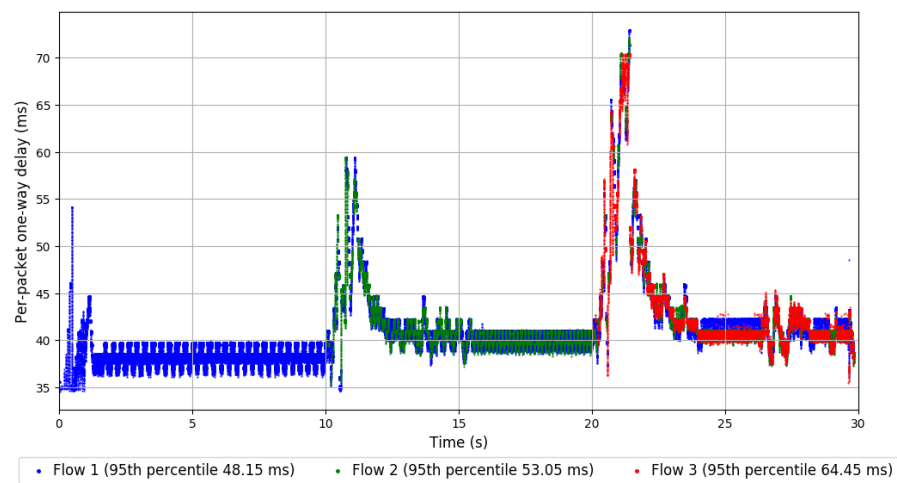
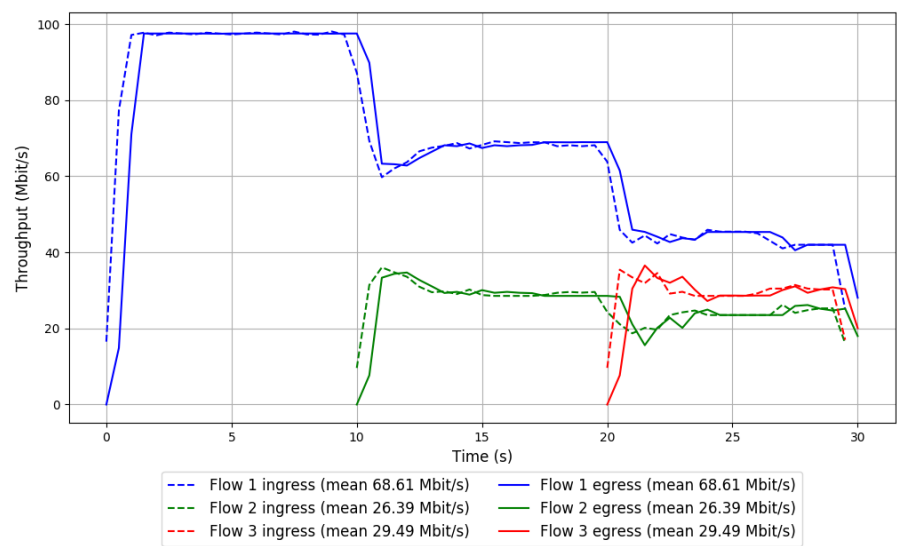
-- Flow 3:

Average throughput: 29.49 Mbit/s

95th percentile per-packet one-way delay: 64.451 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-07-24 18:01:13

End at: 2018-07-24 18:01:43

Local clock offset: 4.189 ms

Remote clock offset: 1.834 ms

Below is generated by plot.py at 2018-07-24 18:26:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.70 Mbit/s

95th percentile per-packet one-way delay: 49.142 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 64.95 Mbit/s

95th percentile per-packet one-way delay: 47.789 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 32.38 Mbit/s

95th percentile per-packet one-way delay: 50.452 ms

Loss rate: 0.00%

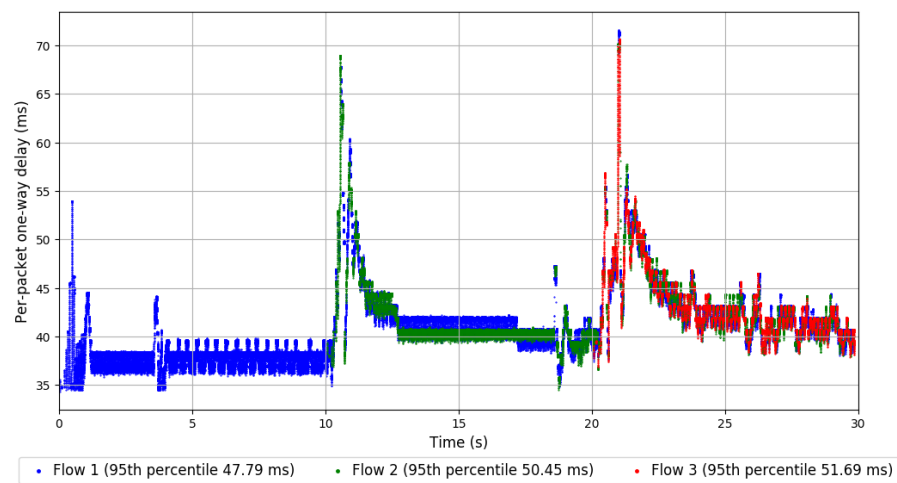
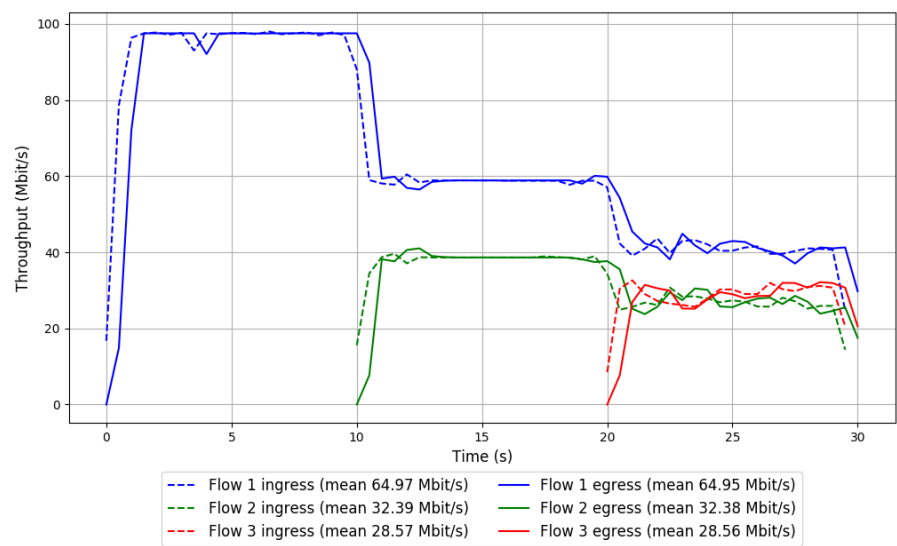
-- Flow 3:

Average throughput: 28.56 Mbit/s

95th percentile per-packet one-way delay: 51.692 ms

Loss rate: 0.01%

Run 10: Report of Indigo — Data Link

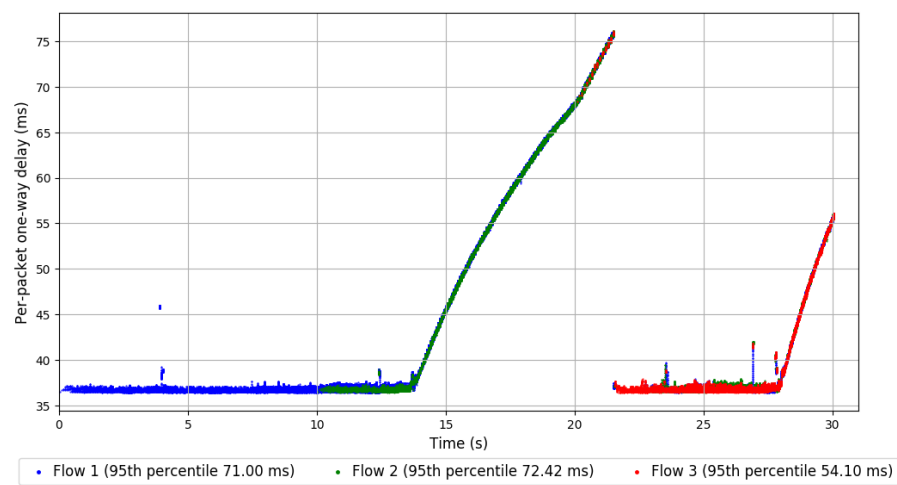
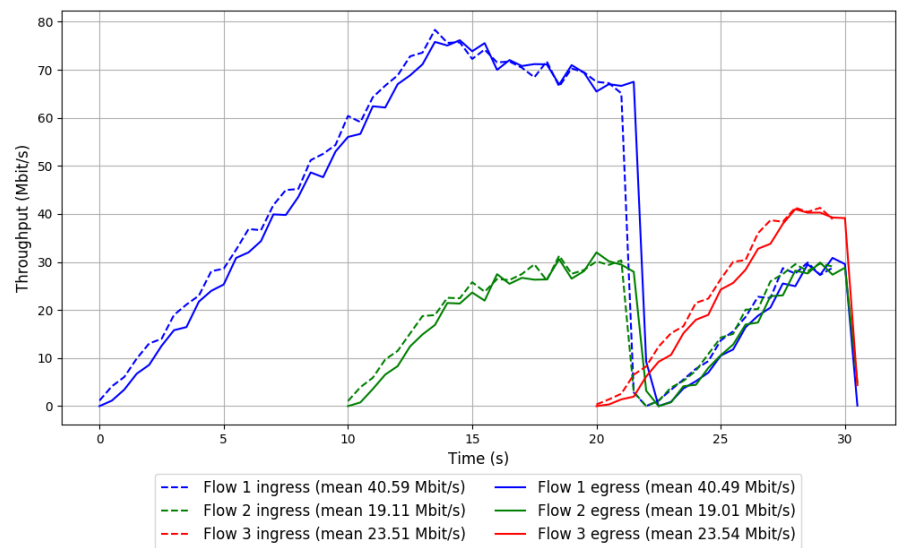


```
Run 1: Statistics of LEDBAT

Start at: 2018-07-24 14:22:16
End at: 2018-07-24 14:22:46
Local clock offset: 0.698 ms
Remote clock offset: 4.285 ms

# Below is generated by plot.py at 2018-07-24 18:26:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 60.90 Mbit/s
95th percentile per-packet one-way delay: 70.872 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 40.49 Mbit/s
95th percentile per-packet one-way delay: 71.002 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 19.01 Mbit/s
95th percentile per-packet one-way delay: 72.422 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 23.54 Mbit/s
95th percentile per-packet one-way delay: 54.102 ms
Loss rate: 0.01%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-07-24 14:45:17

End at: 2018-07-24 14:45:47

Local clock offset: 3.806 ms

Remote clock offset: 4.472 ms

Below is generated by plot.py at 2018-07-24 18:26:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.00 Mbit/s

95th percentile per-packet one-way delay: 68.800 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 39.72 Mbit/s

95th percentile per-packet one-way delay: 69.155 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 29.39 Mbit/s

95th percentile per-packet one-way delay: 69.250 ms

Loss rate: 0.05%

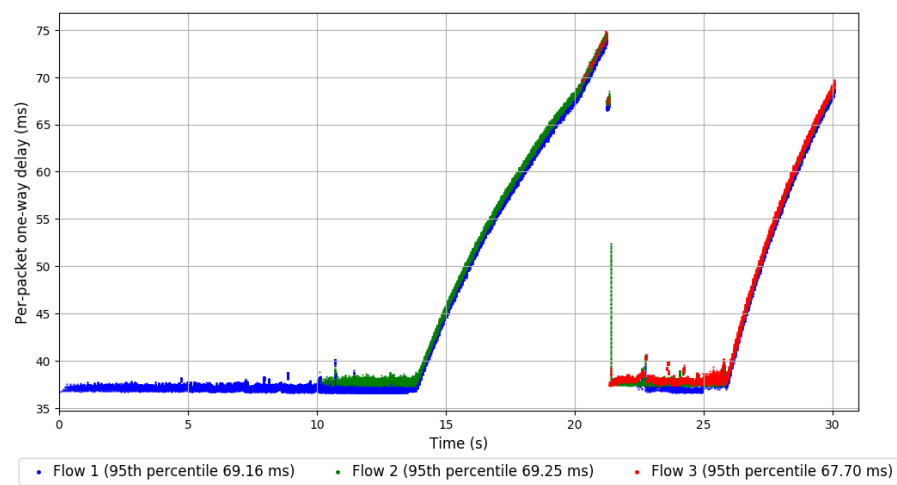
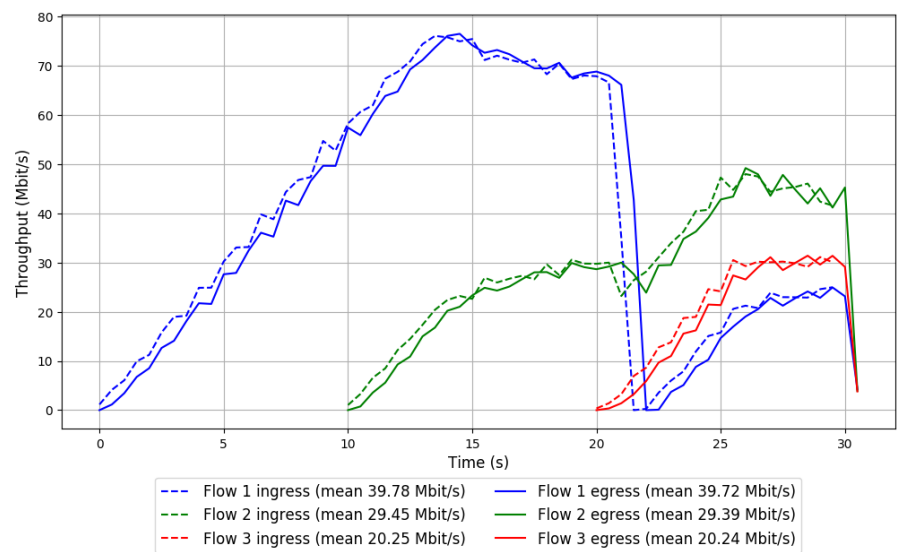
-- Flow 3:

Average throughput: 20.24 Mbit/s

95th percentile per-packet one-way delay: 67.696 ms

Loss rate: 0.01%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-07-24 15:08:28

End at: 2018-07-24 15:08:58

Local clock offset: 2.623 ms

Remote clock offset: 2.013 ms

Below is generated by plot.py at 2018-07-24 18:26:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.97 Mbit/s

95th percentile per-packet one-way delay: 69.963 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 51.74 Mbit/s

95th percentile per-packet one-way delay: 69.414 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 17.32 Mbit/s

95th percentile per-packet one-way delay: 70.891 ms

Loss rate: 0.16%

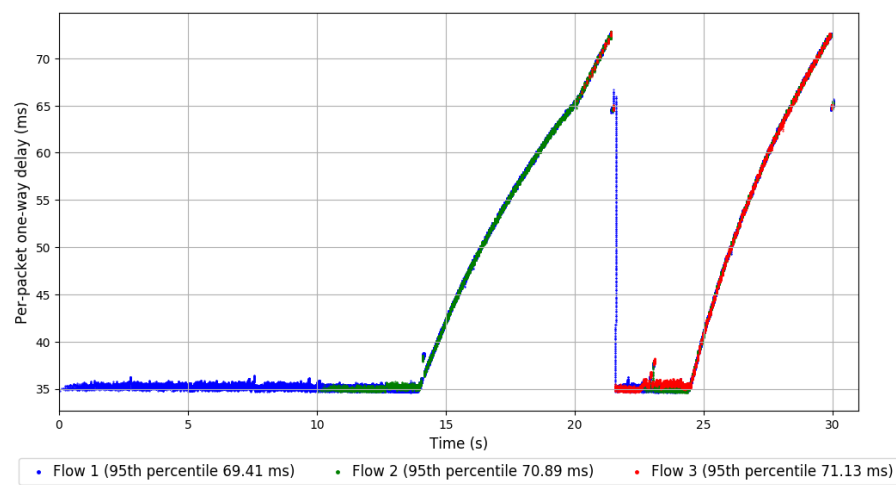
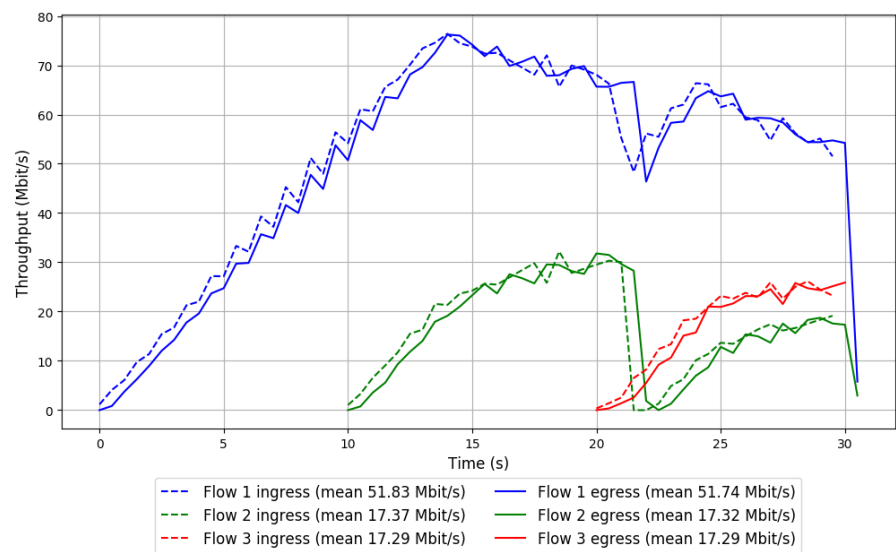
-- Flow 3:

Average throughput: 17.29 Mbit/s

95th percentile per-packet one-way delay: 71.133 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-07-24 15:31:26

End at: 2018-07-24 15:31:56

Local clock offset: 0.164 ms

Remote clock offset: 4.304 ms

Below is generated by plot.py at 2018-07-24 18:26:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.57 Mbit/s

95th percentile per-packet one-way delay: 69.362 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 34.37 Mbit/s

95th percentile per-packet one-way delay: 63.193 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 39.94 Mbit/s

95th percentile per-packet one-way delay: 70.437 ms

Loss rate: 0.06%

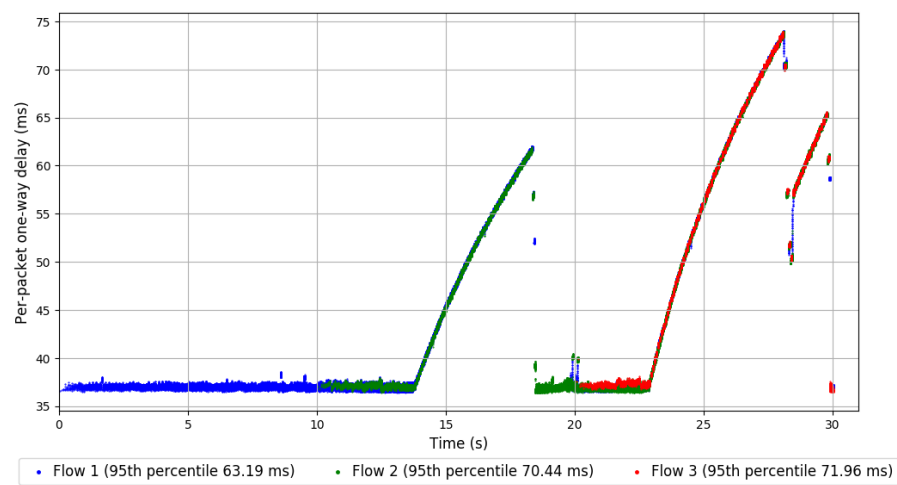
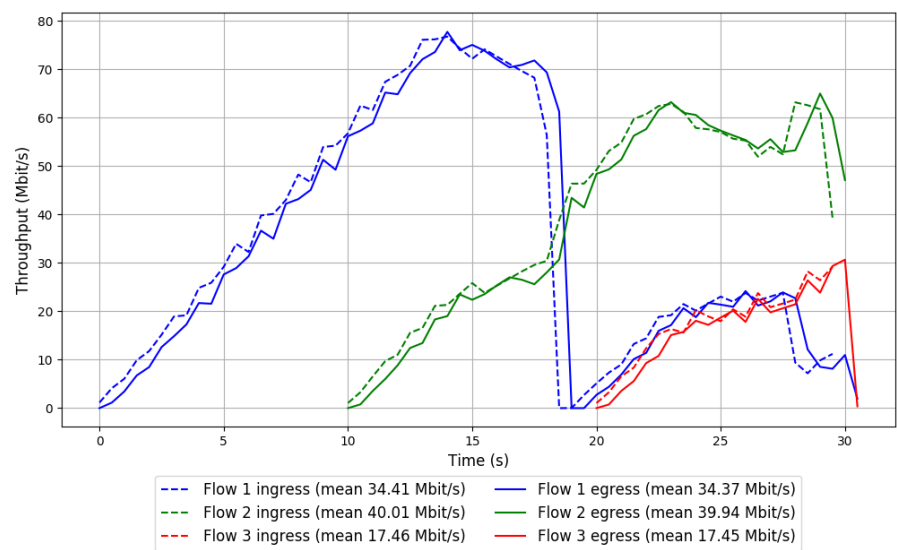
-- Flow 3:

Average throughput: 17.45 Mbit/s

95th percentile per-packet one-way delay: 71.964 ms

Loss rate: 0.02%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-07-24 15:54:32

End at: 2018-07-24 15:55:02

Local clock offset: -0.373 ms

Remote clock offset: 2.09 ms

Below is generated by plot.py at 2018-07-24 18:26:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.11 Mbit/s

95th percentile per-packet one-way delay: 65.402 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 44.09 Mbit/s

95th percentile per-packet one-way delay: 64.464 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 20.81 Mbit/s

95th percentile per-packet one-way delay: 67.139 ms

Loss rate: 0.12%

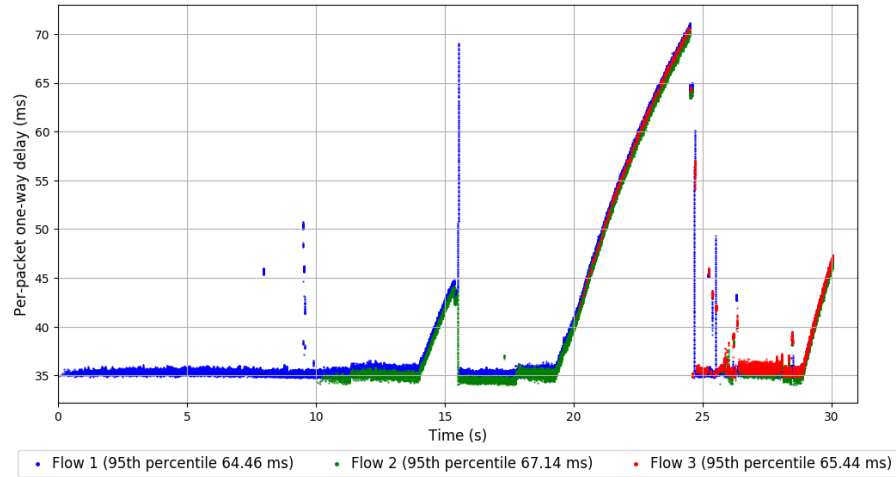
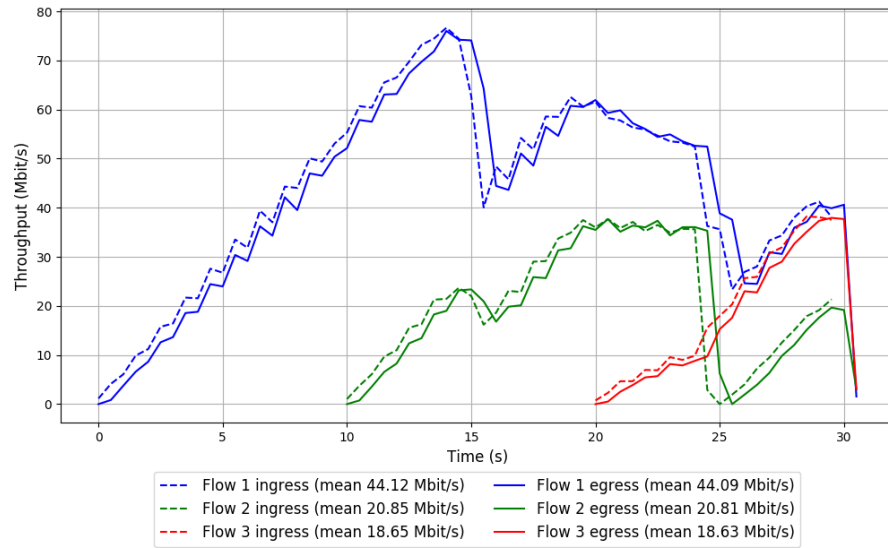
-- Flow 3:

Average throughput: 18.63 Mbit/s

95th percentile per-packet one-way delay: 65.445 ms

Loss rate: 0.03%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-07-24 16:17:23

End at: 2018-07-24 16:17:53

Local clock offset: 0.678 ms

Remote clock offset: 2.506 ms

Below is generated by plot.py at 2018-07-24 18:26:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 60.28 Mbit/s

95th percentile per-packet one-way delay: 62.567 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 39.05 Mbit/s

95th percentile per-packet one-way delay: 62.789 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 19.88 Mbit/s

95th percentile per-packet one-way delay: 63.292 ms

Loss rate: 0.13%

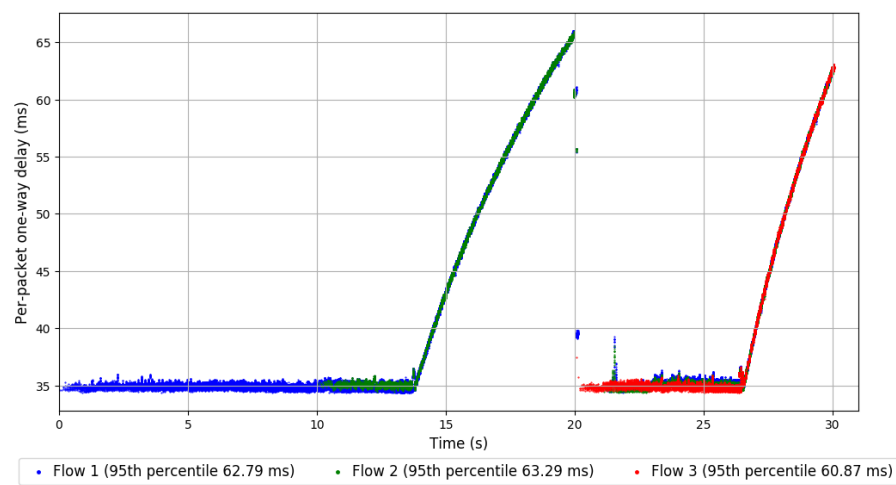
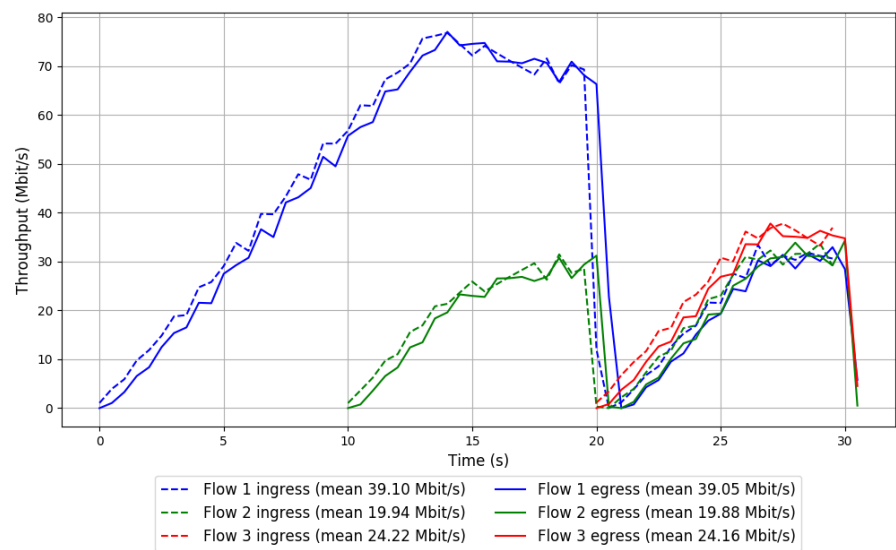
-- Flow 3:

Average throughput: 24.16 Mbit/s

95th percentile per-packet one-way delay: 60.870 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-07-24 16:40:22

End at: 2018-07-24 16:40:52

Local clock offset: 0.805 ms

Remote clock offset: 2.843 ms

Below is generated by plot.py at 2018-07-24 18:26:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 65.92 Mbit/s

95th percentile per-packet one-way delay: 68.098 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 45.09 Mbit/s

95th percentile per-packet one-way delay: 67.396 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 27.68 Mbit/s

95th percentile per-packet one-way delay: 68.945 ms

Loss rate: 0.06%

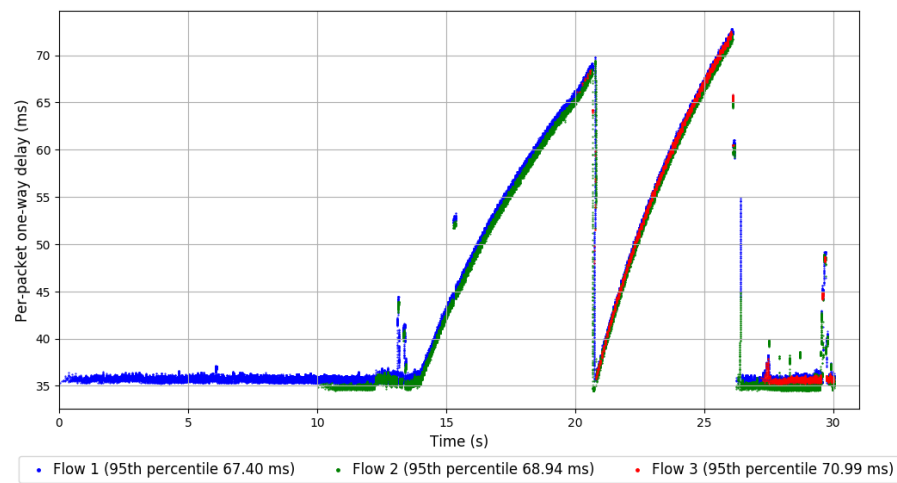
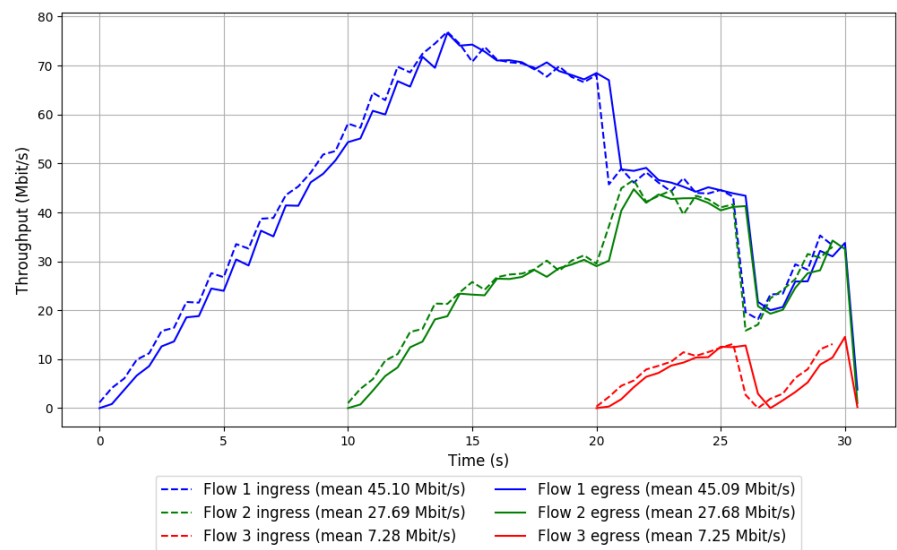
-- Flow 3:

Average throughput: 7.25 Mbit/s

95th percentile per-packet one-way delay: 70.993 ms

Loss rate: 0.76%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-07-24 17:03:21

End at: 2018-07-24 17:03:51

Local clock offset: 0.852 ms

Remote clock offset: 2.043 ms

Below is generated by plot.py at 2018-07-24 18:26:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 60.34 Mbit/s

95th percentile per-packet one-way delay: 69.461 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 39.81 Mbit/s

95th percentile per-packet one-way delay: 69.677 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 19.58 Mbit/s

95th percentile per-packet one-way delay: 70.602 ms

Loss rate: 0.22%

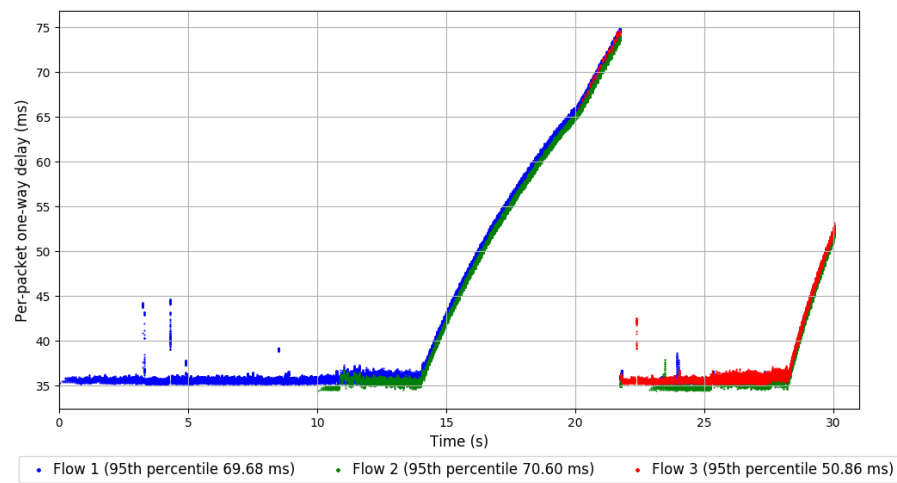
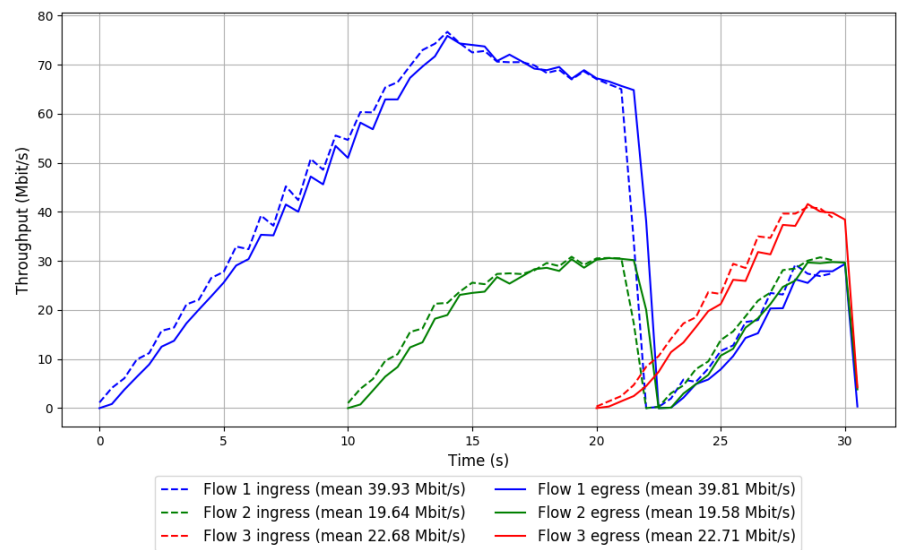
-- Flow 3:

Average throughput: 22.71 Mbit/s

95th percentile per-packet one-way delay: 50.861 ms

Loss rate: 0.01%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-07-24 17:26:17

End at: 2018-07-24 17:26:47

Local clock offset: 0.269 ms

Remote clock offset: 1.761 ms

Below is generated by plot.py at 2018-07-24 18:26:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.99 Mbit/s

95th percentile per-packet one-way delay: 69.668 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 38.91 Mbit/s

95th percentile per-packet one-way delay: 69.653 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 37.06 Mbit/s

95th percentile per-packet one-way delay: 69.692 ms

Loss rate: 0.00%

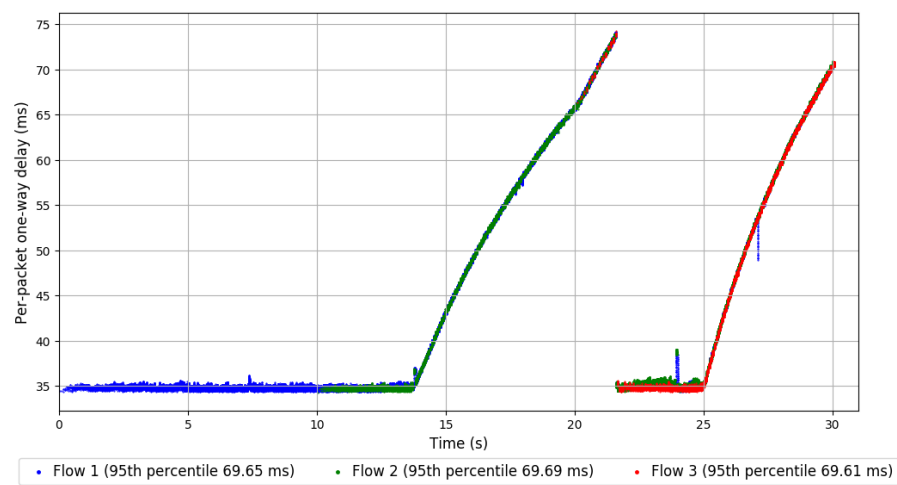
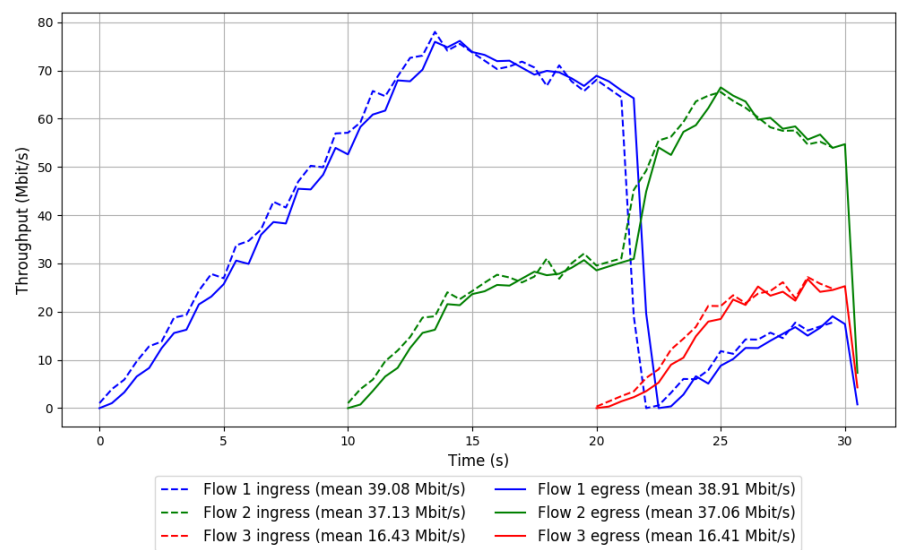
-- Flow 3:

Average throughput: 16.41 Mbit/s

95th percentile per-packet one-way delay: 69.613 ms

Loss rate: 0.06%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-07-24 17:49:08

End at: 2018-07-24 17:49:38

Local clock offset: 3.382 ms

Remote clock offset: 1.7 ms

Below is generated by plot.py at 2018-07-24 18:26:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 58.66 Mbit/s

95th percentile per-packet one-way delay: 69.474 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 40.64 Mbit/s

95th percentile per-packet one-way delay: 69.344 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 19.42 Mbit/s

95th percentile per-packet one-way delay: 70.749 ms

Loss rate: 0.38%

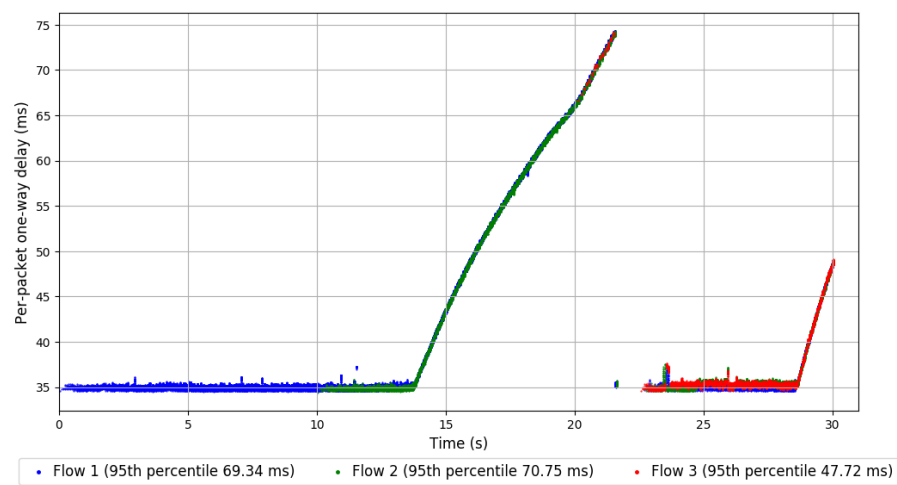
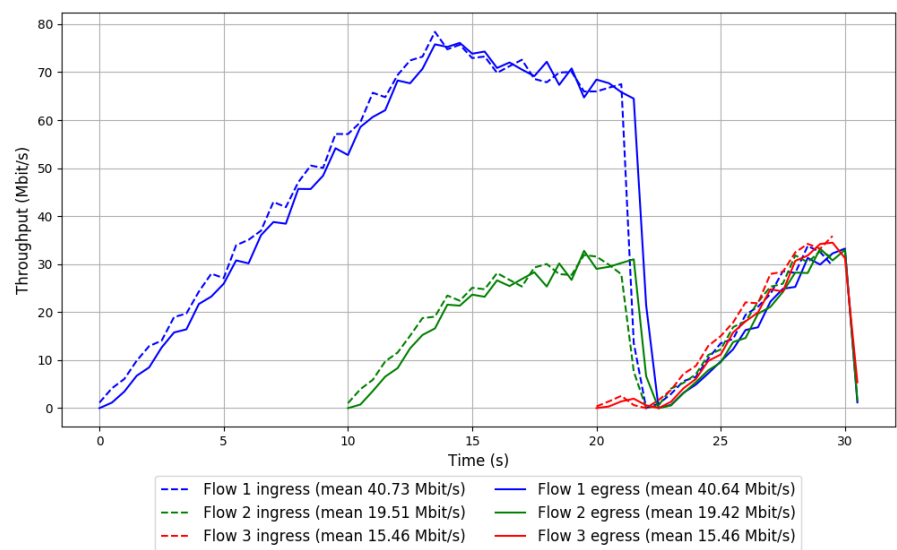
-- Flow 3:

Average throughput: 15.46 Mbit/s

95th percentile per-packet one-way delay: 47.720 ms

Loss rate: 0.21%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-07-24 14:39:49

End at: 2018-07-24 14:40:19

Local clock offset: 2.985 ms

Remote clock offset: 4.275 ms

Below is generated by plot.py at 2018-07-24 18:27:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.98 Mbit/s

95th percentile per-packet one-way delay: 70.174 ms

Loss rate: 3.54%

-- Flow 1:

Average throughput: 76.92 Mbit/s

95th percentile per-packet one-way delay: 69.894 ms

Loss rate: 3.51%

-- Flow 2:

Average throughput: 18.51 Mbit/s

95th percentile per-packet one-way delay: 71.361 ms

Loss rate: 3.94%

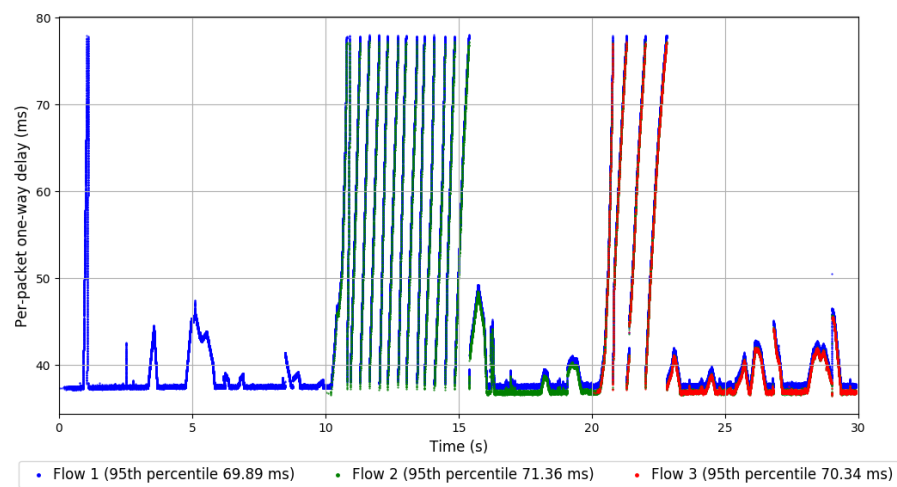
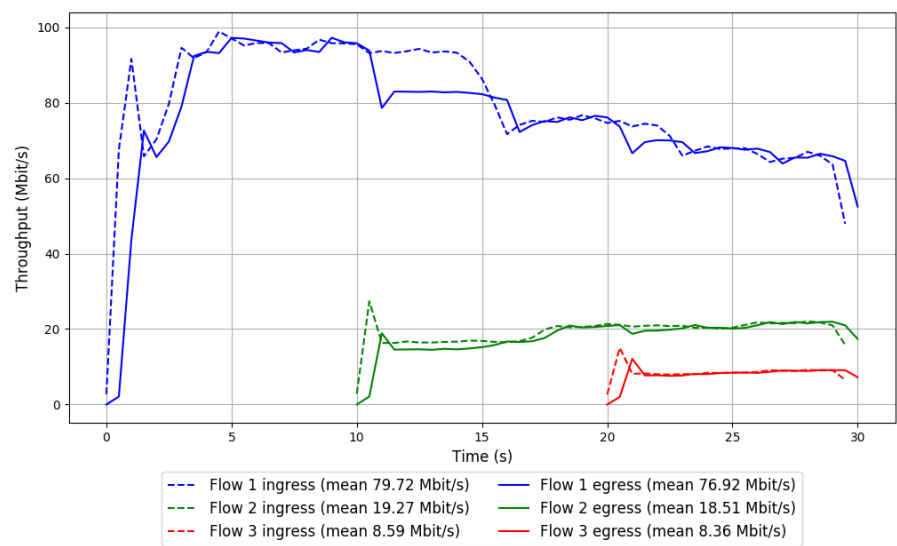
-- Flow 3:

Average throughput: 8.36 Mbit/s

95th percentile per-packet one-way delay: 70.344 ms

Loss rate: 2.68%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-07-24 15:02:52

End at: 2018-07-24 15:03:22

Local clock offset: 4.707 ms

Remote clock offset: 3.916 ms

Below is generated by plot.py at 2018-07-24 18:27:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.57 Mbit/s

95th percentile per-packet one-way delay: 67.818 ms

Loss rate: 1.76%

-- Flow 1:

Average throughput: 81.77 Mbit/s

95th percentile per-packet one-way delay: 67.219 ms

Loss rate: 1.72%

-- Flow 2:

Average throughput: 10.40 Mbit/s

95th percentile per-packet one-way delay: 70.717 ms

Loss rate: 1.69%

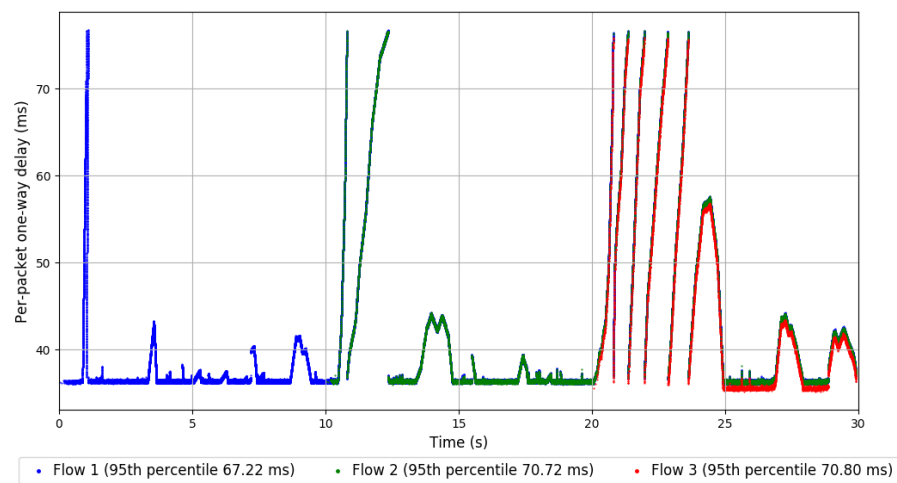
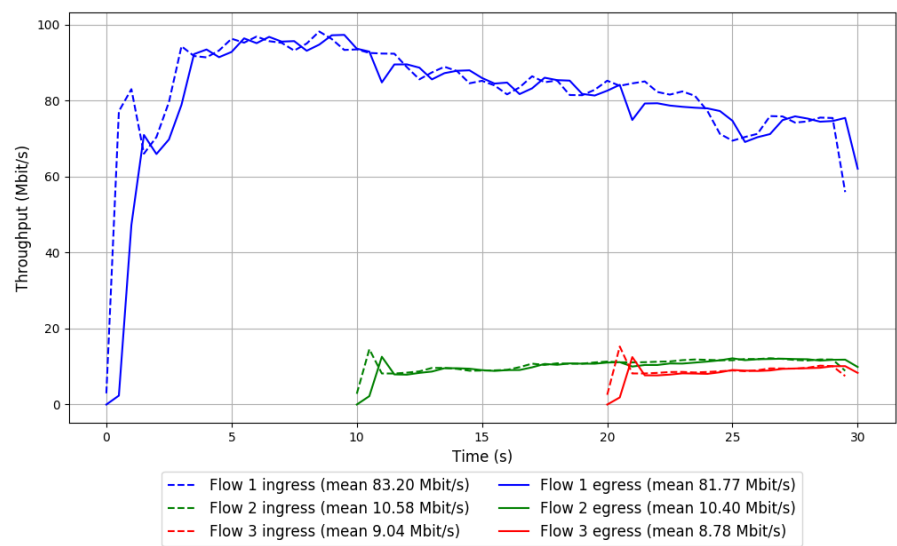
-- Flow 3:

Average throughput: 8.78 Mbit/s

95th percentile per-packet one-way delay: 70.799 ms

Loss rate: 2.92%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-07-24 15:25:57

End at: 2018-07-24 15:26:27

Local clock offset: 0.323 ms

Remote clock offset: 4.222 ms

Below is generated by plot.py at 2018-07-24 18:27:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.69 Mbit/s

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

Loss rate: 2.48%

-- Flow 1:

Average throughput: 74.83 Mbit/s

95th percentile per-packet one-way delay: 65.161 ms

Loss rate: 2.50%

-- Flow 2:

Average throughput: 20.41 Mbit/s

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

Loss rate: 2.54%

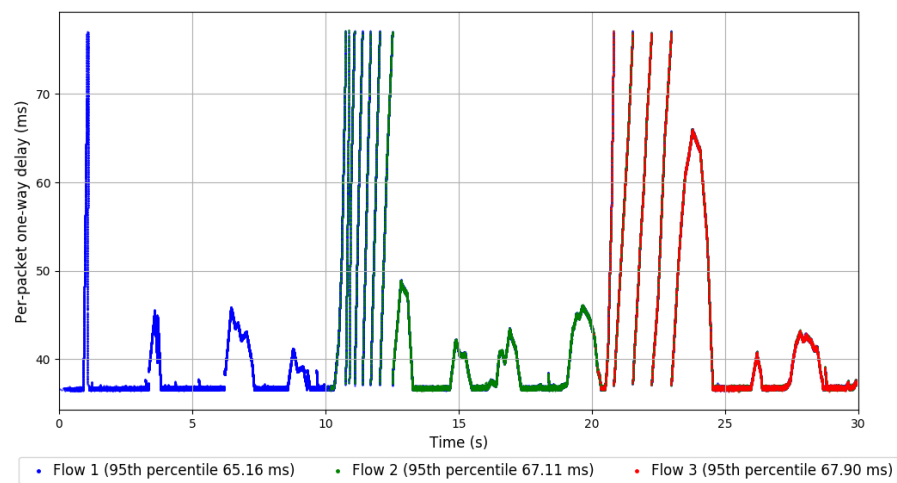
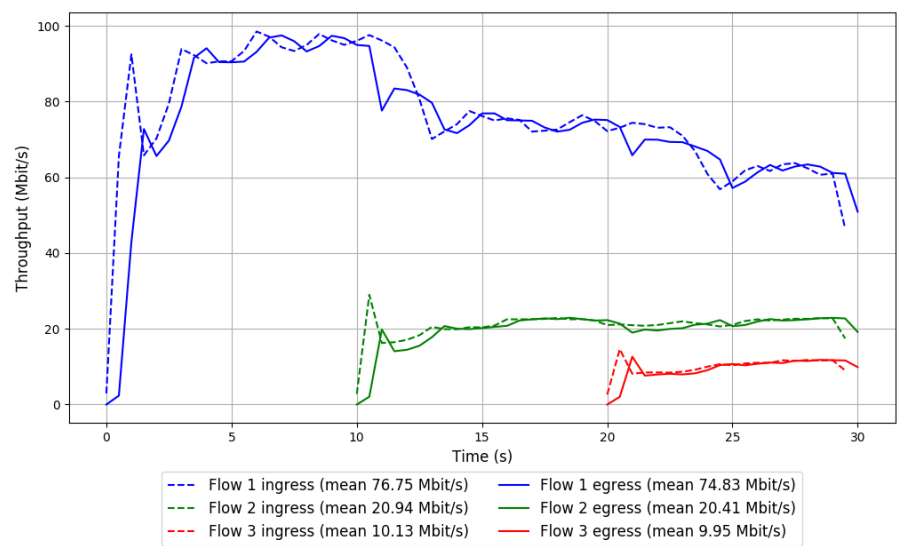
-- Flow 3:

Average throughput: 9.95 Mbit/s

95th percentile per-packet one-way delay: 67.903 ms

Loss rate: 1.91%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-07-24 15:49:03

End at: 2018-07-24 15:49:33

Local clock offset: -0.348 ms

Remote clock offset: 4.441 ms

Below is generated by plot.py at 2018-07-24 18:27:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.62 Mbit/s

95th percentile per-packet one-way delay: 69.702 ms

Loss rate: 1.81%

-- Flow 1:

Average throughput: 83.39 Mbit/s

95th percentile per-packet one-way delay: 69.316 ms

Loss rate: 1.82%

-- Flow 2:

Average throughput: 5.02 Mbit/s

95th percentile per-packet one-way delay: 71.837 ms

Loss rate: 1.36%

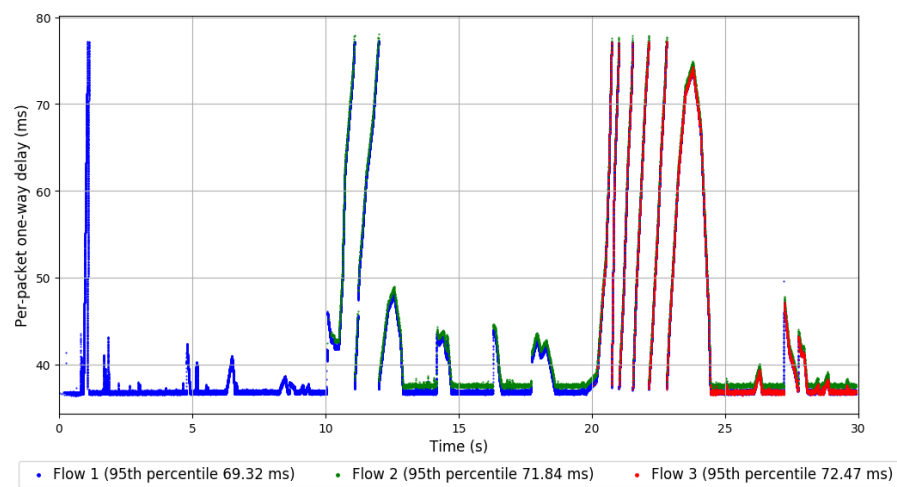
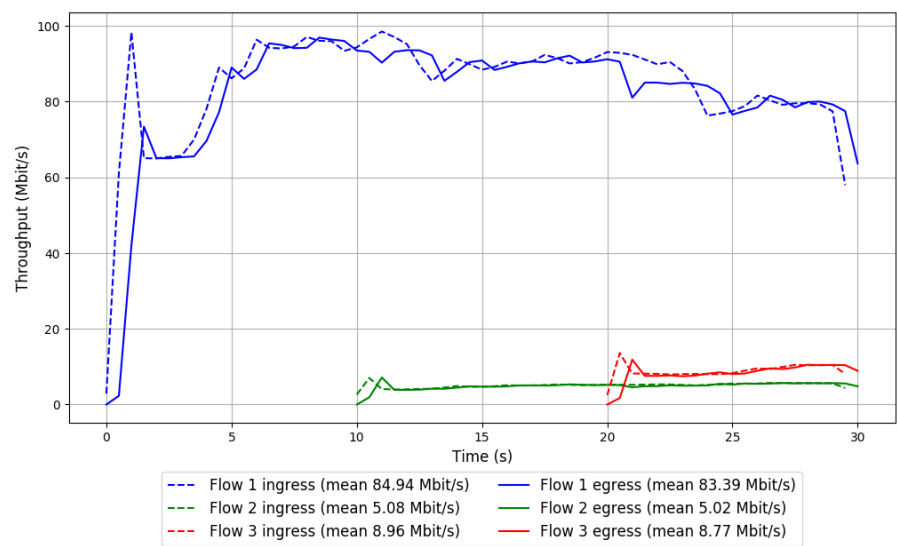
-- Flow 3:

Average throughput: 8.77 Mbit/s

95th percentile per-packet one-way delay: 72.466 ms

Loss rate: 2.20%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-07-24 16:11:56

End at: 2018-07-24 16:12:26

Local clock offset: 0.441 ms

Remote clock offset: 2.546 ms

Below is generated by plot.py at 2018-07-24 18:27:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.53 Mbit/s

95th percentile per-packet one-way delay: 63.589 ms

Loss rate: 1.28%

-- Flow 1:

Average throughput: 81.62 Mbit/s

95th percentile per-packet one-way delay: 62.234 ms

Loss rate: 1.31%

-- Flow 2:

Average throughput: 7.63 Mbit/s

95th percentile per-packet one-way delay: 67.822 ms

Loss rate: 1.29%

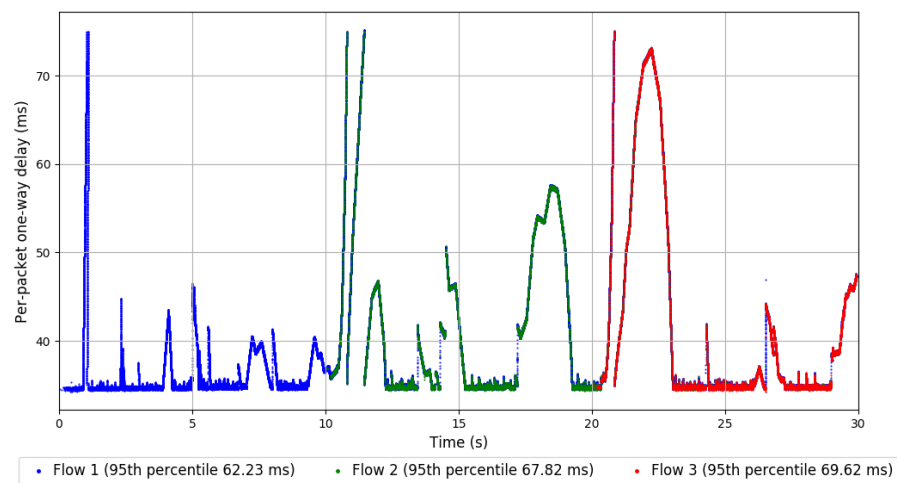
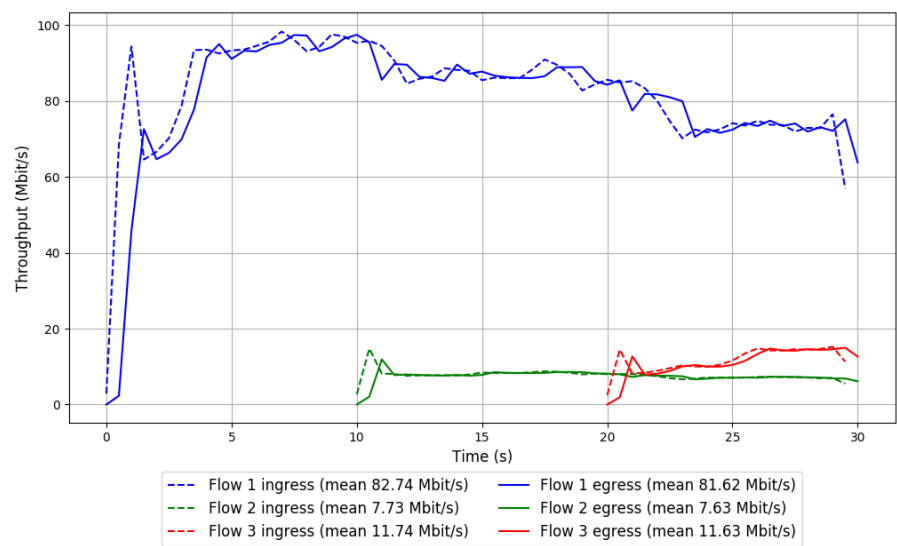
-- Flow 3:

Average throughput: 11.63 Mbit/s

95th percentile per-packet one-way delay: 69.623 ms

Loss rate: 0.77%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-07-24 16:34:54

End at: 2018-07-24 16:35:24

Local clock offset: 0.923 ms

Remote clock offset: 2.758 ms

Below is generated by plot.py at 2018-07-24 18:27:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.38 Mbit/s

95th percentile per-packet one-way delay: 67.987 ms

Loss rate: 2.21%

-- Flow 1:

Average throughput: 81.85 Mbit/s

95th percentile per-packet one-way delay: 67.101 ms

Loss rate: 2.13%

-- Flow 2:

Average throughput: 10.18 Mbit/s

95th percentile per-packet one-way delay: 70.888 ms

Loss rate: 2.18%

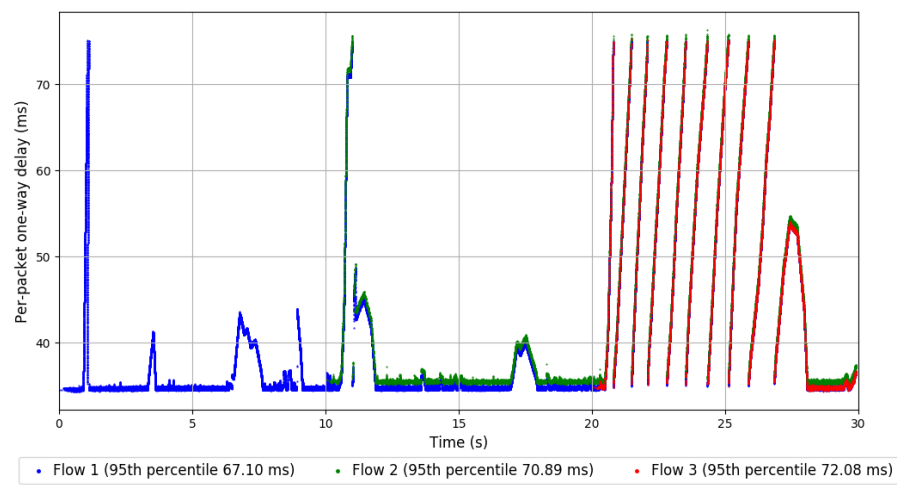
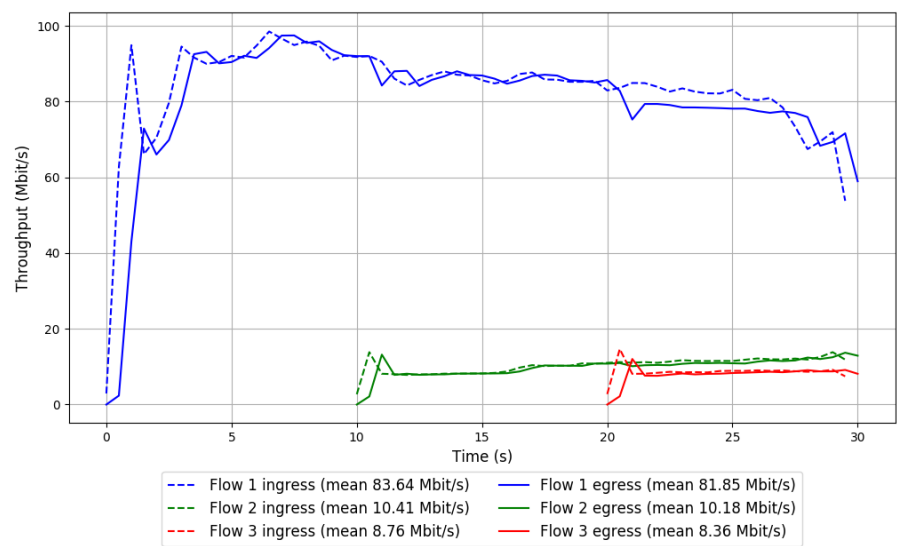
-- Flow 3:

Average throughput: 8.36 Mbit/s

95th percentile per-packet one-way delay: 72.084 ms

Loss rate: 4.57%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-07-24 16:57:52

End at: 2018-07-24 16:58:22

Local clock offset: 0.931 ms

Remote clock offset: 2.048 ms

Below is generated by plot.py at 2018-07-24 18:28:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.33 Mbit/s

95th percentile per-packet one-way delay: 60.994 ms

Loss rate: 1.82%

-- Flow 1:

Average throughput: 85.66 Mbit/s

95th percentile per-packet one-way delay: 60.160 ms

Loss rate: 1.76%

-- Flow 2:

Average throughput: 4.32 Mbit/s

95th percentile per-packet one-way delay: 66.419 ms

Loss rate: 2.04%

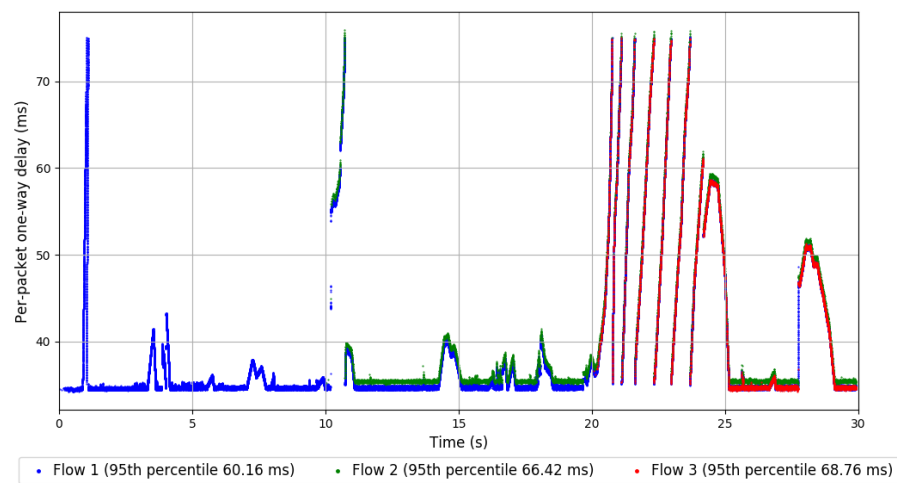
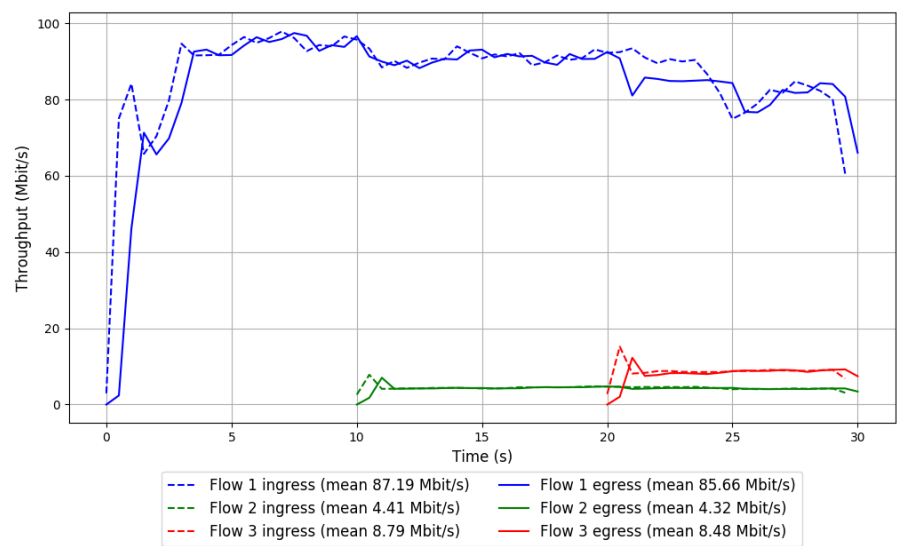
-- Flow 3:

Average throughput: 8.48 Mbit/s

95th percentile per-packet one-way delay: 68.756 ms

Loss rate: 3.53%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-07-24 17:20:48

End at: 2018-07-24 17:21:18

Local clock offset: 0.372 ms

Remote clock offset: 1.853 ms

Below is generated by plot.py at 2018-07-24 18:28:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.96 Mbit/s

95th percentile per-packet one-way delay: 70.598 ms

Loss rate: 6.07%

-- Flow 1:

Average throughput: 81.62 Mbit/s

95th percentile per-packet one-way delay: 69.938 ms

Loss rate: 5.43%

-- Flow 2:

Average throughput: 8.53 Mbit/s

95th percentile per-packet one-way delay: 72.048 ms

Loss rate: 7.73%

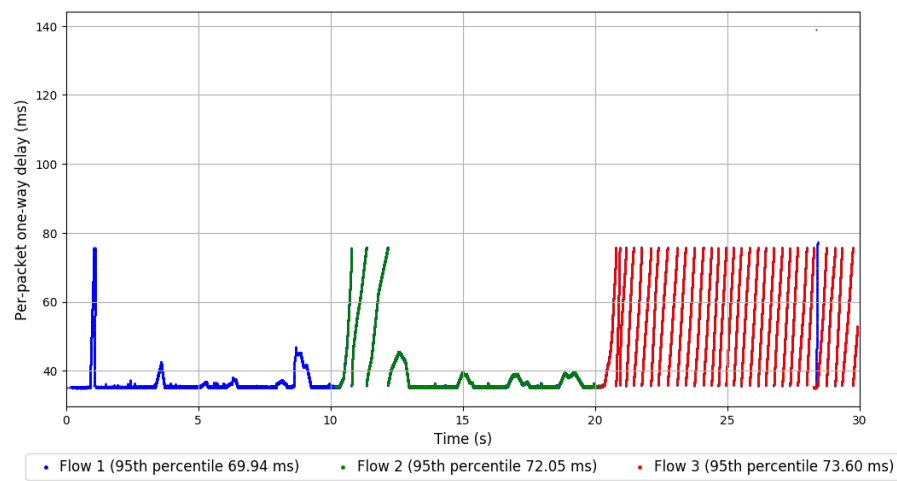
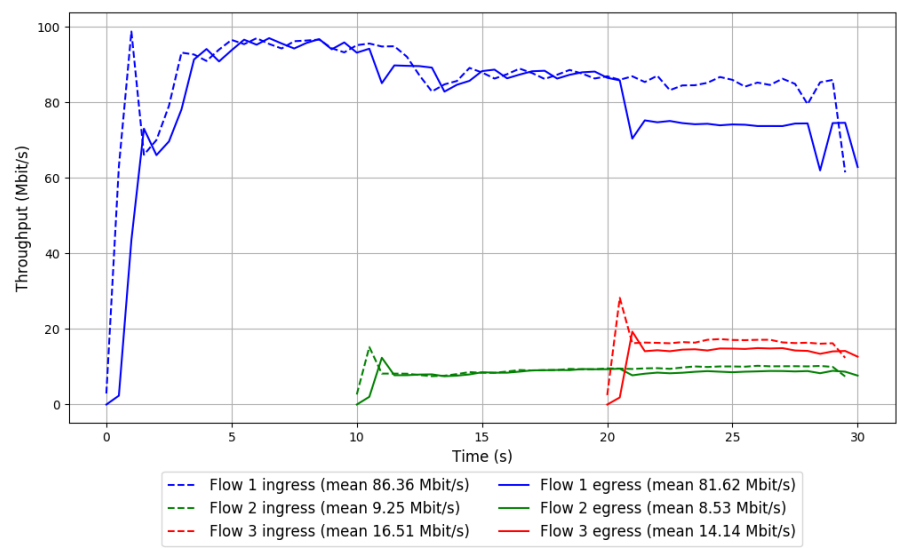
-- Flow 3:

Average throughput: 14.14 Mbit/s

95th percentile per-packet one-way delay: 73.596 ms

Loss rate: 14.23%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-07-24 17:43:41

End at: 2018-07-24 17:44:11

Local clock offset: 2.921 ms

Remote clock offset: 1.718 ms

Below is generated by plot.py at 2018-07-24 18:28:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.54 Mbit/s

95th percentile per-packet one-way delay: 67.189 ms

Loss rate: 1.23%

-- Flow 1:

Average throughput: 83.18 Mbit/s

95th percentile per-packet one-way delay: 66.893 ms

Loss rate: 1.25%

-- Flow 2:

Average throughput: 8.27 Mbit/s

95th percentile per-packet one-way delay: 70.442 ms

Loss rate: 0.73%

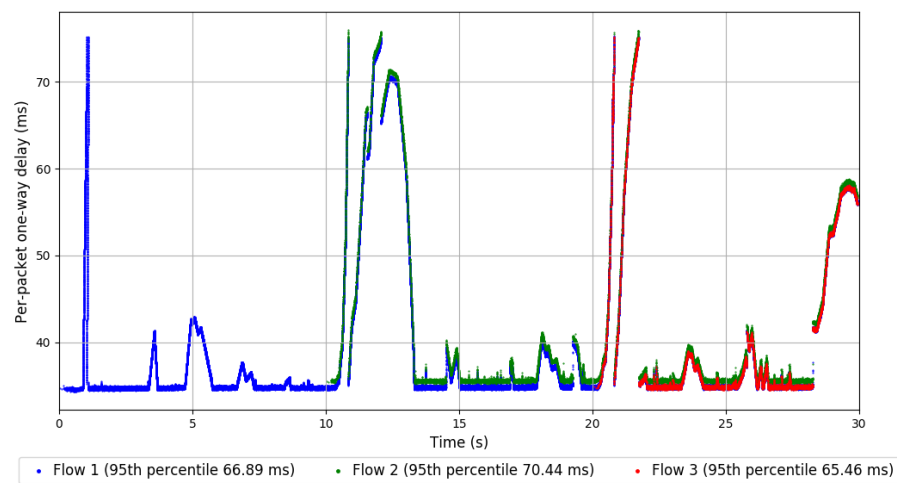
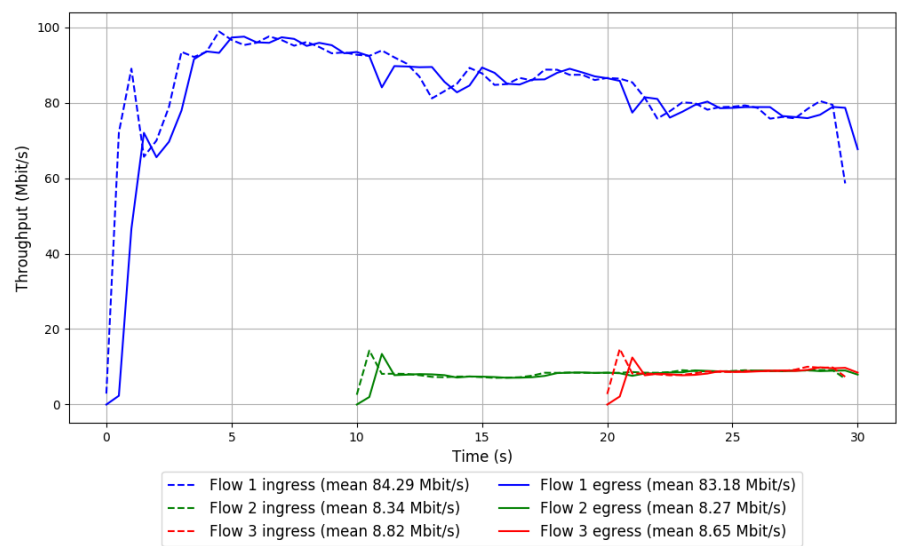
-- Flow 3:

Average throughput: 8.65 Mbit/s

95th percentile per-packet one-way delay: 65.457 ms

Loss rate: 1.67%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-07-24 18:06:41

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

Local clock offset: 2.496 ms

Remote clock offset: 1.907 ms

Below is generated by plot.py at 2018-07-24 18:28:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.82 Mbit/s

95th percentile per-packet one-way delay: 68.415 ms

Loss rate: 3.19%

-- Flow 1:

Average throughput: 82.59 Mbit/s

95th percentile per-packet one-way delay: 68.411 ms

Loss rate: 3.23%

-- Flow 2:

Average throughput: 9.55 Mbit/s

95th percentile per-packet one-way delay: 69.327 ms

Loss rate: 3.40%

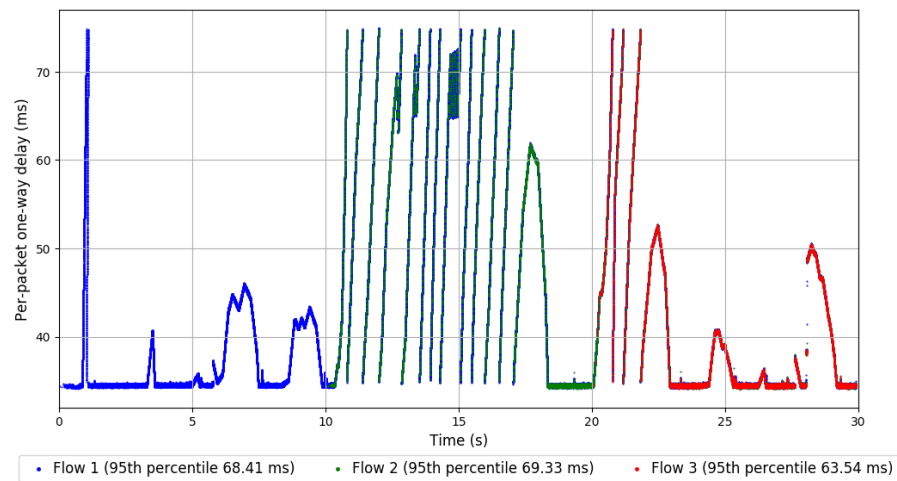
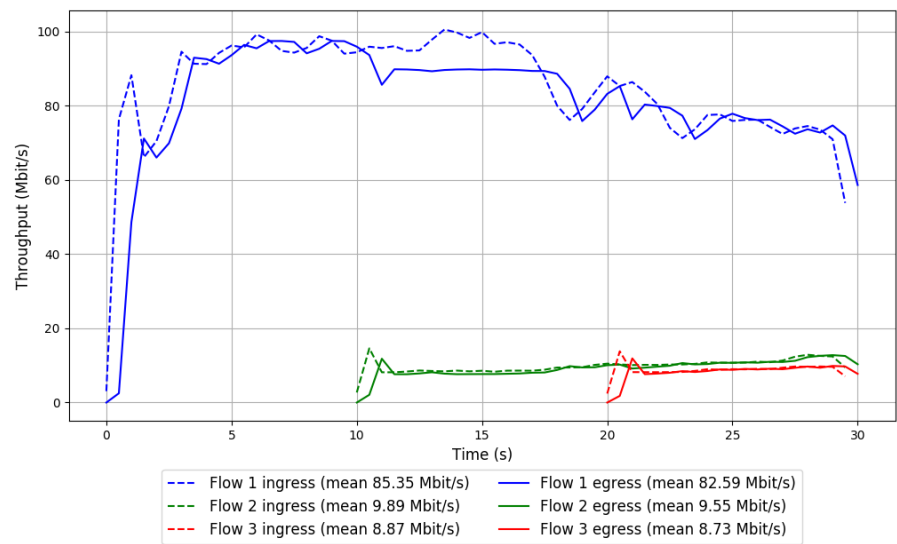
-- Flow 3:

Average throughput: 8.73 Mbit/s

95th percentile per-packet one-way delay: 63.537 ms

Loss rate: 1.59%

Run 10: Report of PCC-Allegro — Data Link

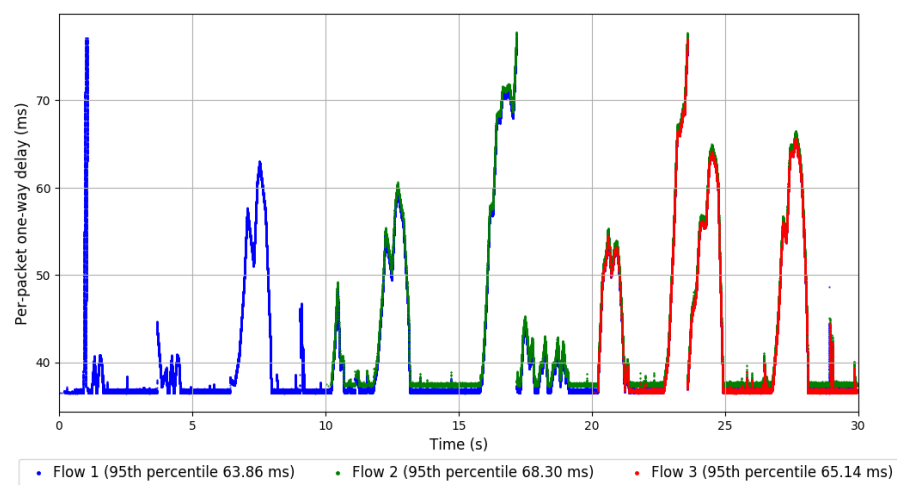
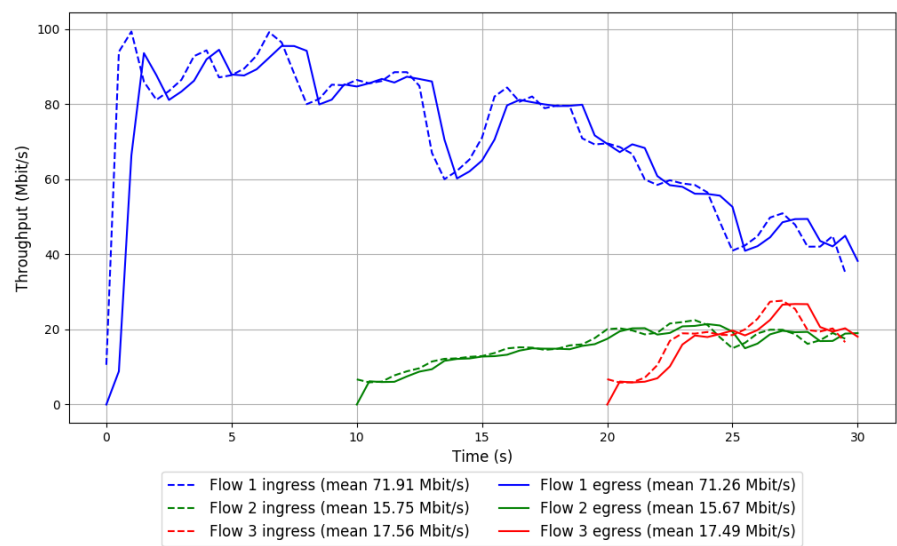


```
Run 1: Statistics of PCC-Expr

Start at: 2018-07-24 14:28:52
End at: 2018-07-24 14:29:22
Local clock offset: 0.682 ms
Remote clock offset: 4.308 ms

# Below is generated by plot.py at 2018-07-24 18:29:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.45 Mbit/s
95th percentile per-packet one-way delay: 64.727 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 71.26 Mbit/s
95th percentile per-packet one-way delay: 63.858 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 15.67 Mbit/s
95th percentile per-packet one-way delay: 68.304 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 17.49 Mbit/s
95th percentile per-packet one-way delay: 65.142 ms
Loss rate: 0.44%
```

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2018-07-24 14:51:53

End at: 2018-07-24 14:52:23

Local clock offset: 4.453 ms

Remote clock offset: 4.593 ms

Below is generated by plot.py at 2018-07-24 18:29:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.21 Mbit/s

95th percentile per-packet one-way delay: 70.533 ms

Loss rate: 1.42%

-- Flow 1:

Average throughput: 72.76 Mbit/s

95th percentile per-packet one-way delay: 69.692 ms

Loss rate: 1.52%

-- Flow 2:

Average throughput: 17.19 Mbit/s

95th percentile per-packet one-way delay: 71.968 ms

Loss rate: 0.92%

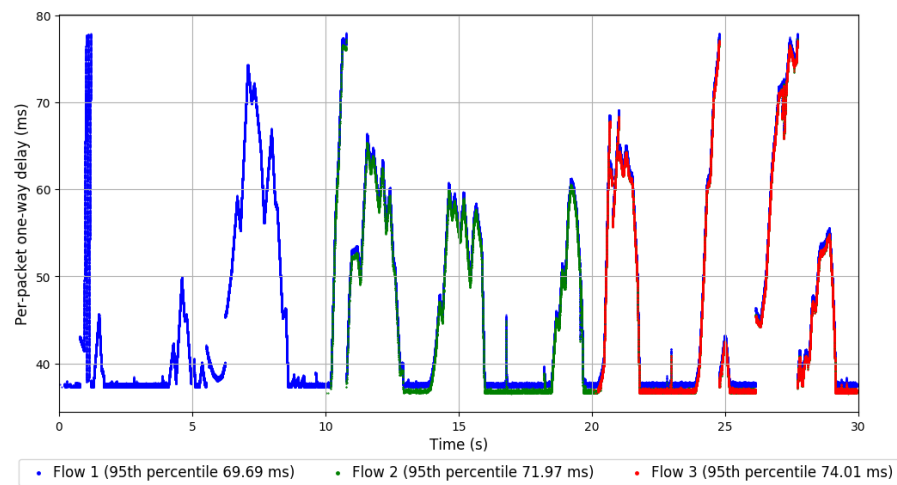
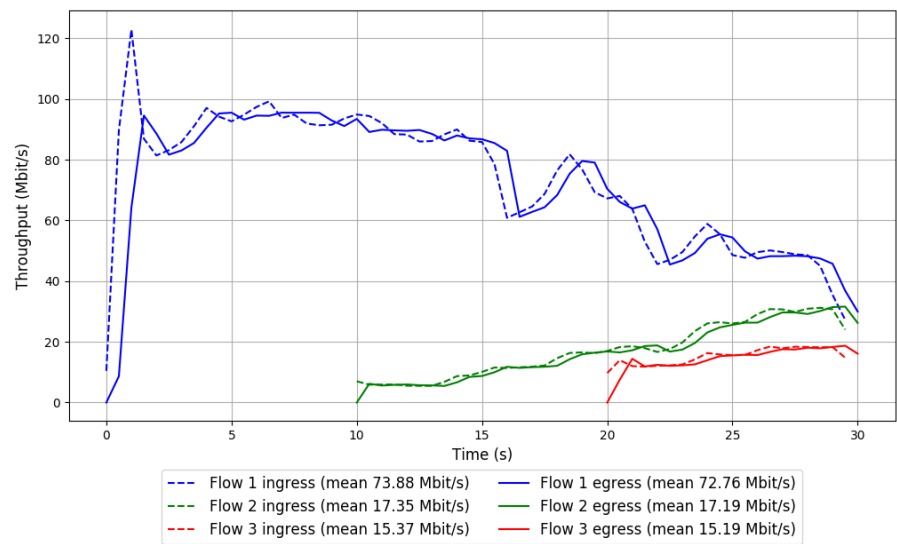
-- Flow 3:

Average throughput: 15.19 Mbit/s

95th percentile per-packet one-way delay: 74.008 ms

Loss rate: 1.12%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-07-24 15:15:05

End at: 2018-07-24 15:15:35

Local clock offset: 1.33 ms

Remote clock offset: 4.274 ms

Below is generated by plot.py at 2018-07-24 18:29:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.80 Mbit/s

95th percentile per-packet one-way delay: 70.528 ms

Loss rate: 1.62%

-- Flow 1:

Average throughput: 68.45 Mbit/s

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

Loss rate: 1.76%

-- Flow 2:

Average throughput: 24.93 Mbit/s

95th percentile per-packet one-way delay: 68.954 ms

Loss rate: 1.20%

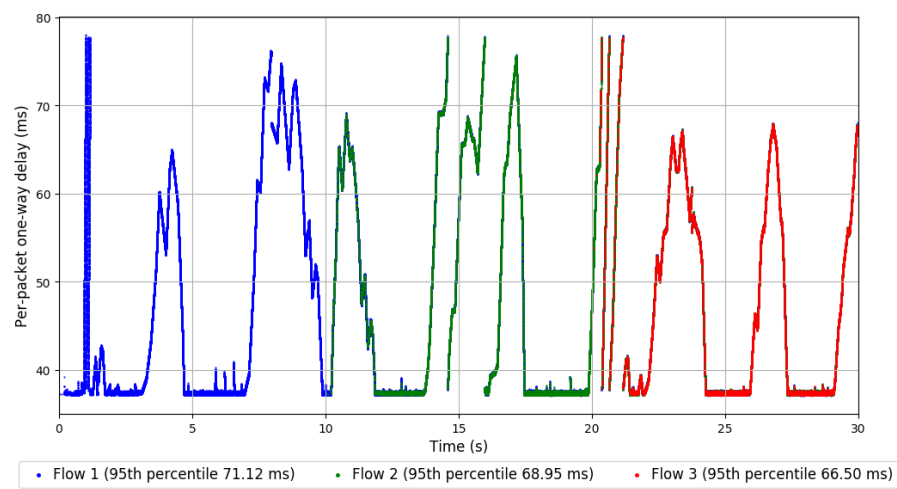
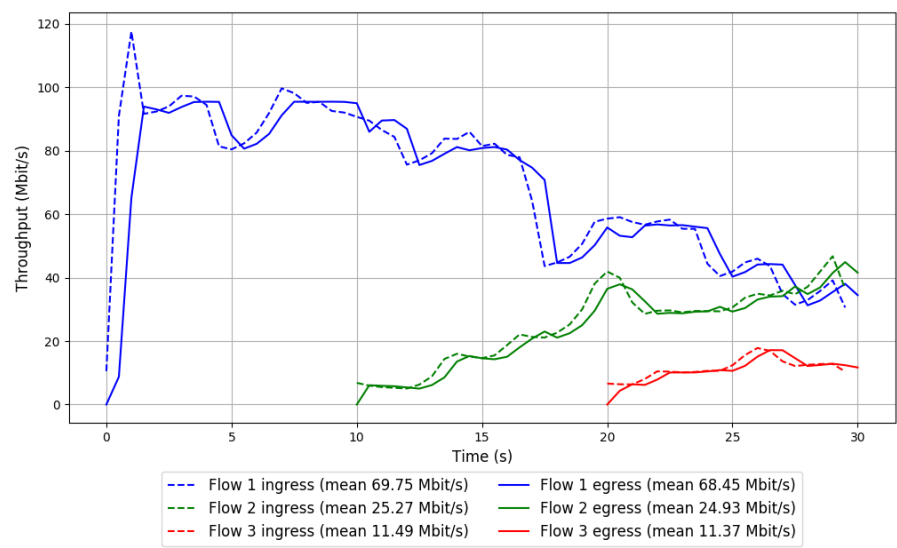
-- Flow 3:

Average throughput: 11.37 Mbit/s

95th percentile per-packet one-way delay: 66.501 ms

Loss rate: 0.90%

Run 3: Report of PCC-Expr — Data Link

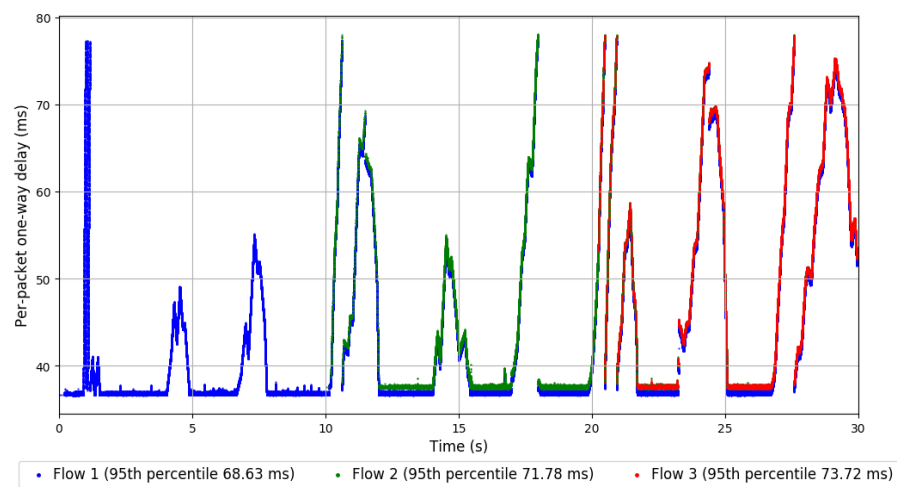
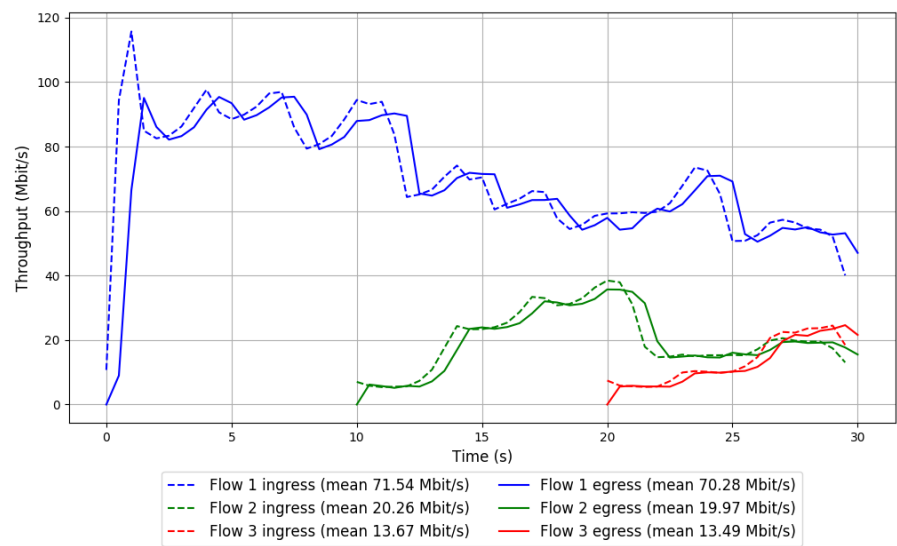


```
Run 4: Statistics of PCC-Expr

Start at: 2018-07-24 15:38:03
End at: 2018-07-24 15:38:33
Local clock offset: -0.109 ms
Remote clock offset: 4.453 ms

# Below is generated by plot.py at 2018-07-24 18:29:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.03 Mbit/s
95th percentile per-packet one-way delay: 69.917 ms
Loss rate: 1.62%
-- Flow 1:
Average throughput: 70.28 Mbit/s
95th percentile per-packet one-way delay: 68.634 ms
Loss rate: 1.70%
-- Flow 2:
Average throughput: 19.97 Mbit/s
95th percentile per-packet one-way delay: 71.785 ms
Loss rate: 1.34%
-- Flow 3:
Average throughput: 13.49 Mbit/s
95th percentile per-packet one-way delay: 73.724 ms
Loss rate: 1.23%
```


Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-07-24 16:01:07

End at: 2018-07-24 16:01:37

Local clock offset: -0.595 ms

Remote clock offset: 4.557 ms

Below is generated by plot.py at 2018-07-24 18:29:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.07 Mbit/s

95th percentile per-packet one-way delay: 71.638 ms

Loss rate: 1.92%

-- Flow 1:

Average throughput: 58.34 Mbit/s

95th percentile per-packet one-way delay: 71.527 ms

Loss rate: 2.01%

-- Flow 2:

Average throughput: 37.30 Mbit/s

95th percentile per-packet one-way delay: 72.472 ms

Loss rate: 1.88%

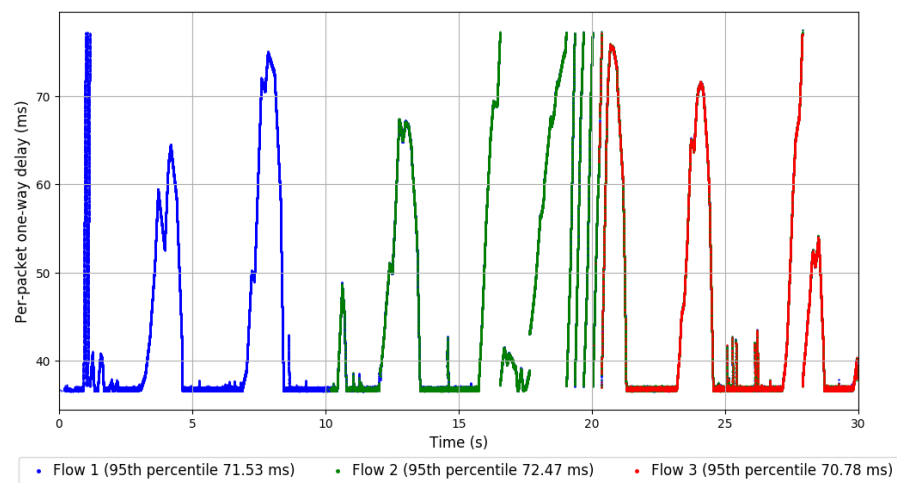
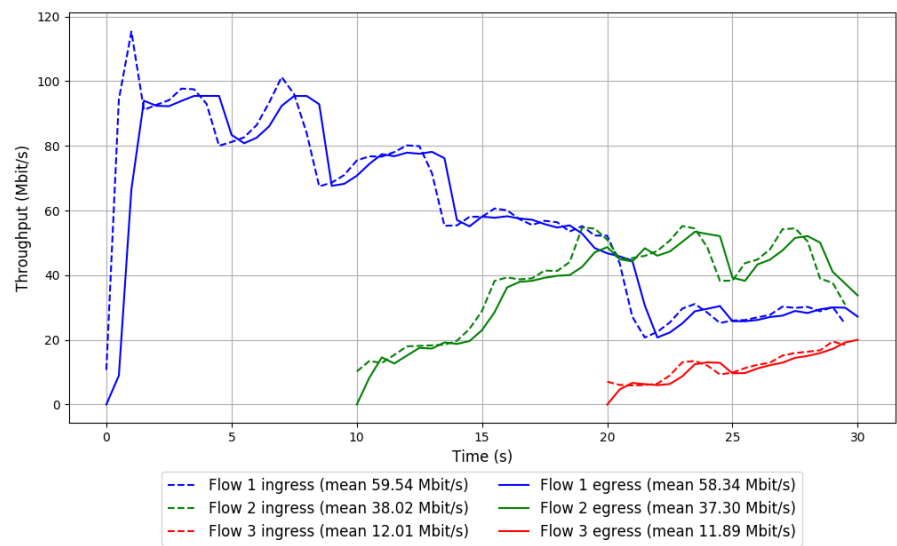
-- Flow 3:

Average throughput: 11.89 Mbit/s

95th percentile per-packet one-way delay: 70.778 ms

Loss rate: 0.94%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-07-24 16:24:00

End at: 2018-07-24 16:24:30

Local clock offset: 0.761 ms

Remote clock offset: 2.532 ms

Below is generated by plot.py at 2018-07-24 18:30:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.38 Mbit/s

95th percentile per-packet one-way delay: 69.062 ms

Loss rate: 1.46%

-- Flow 1:

Average throughput: 63.63 Mbit/s

95th percentile per-packet one-way delay: 68.736 ms

Loss rate: 1.56%

-- Flow 2:

Average throughput: 32.22 Mbit/s

95th percentile per-packet one-way delay: 69.633 ms

Loss rate: 1.16%

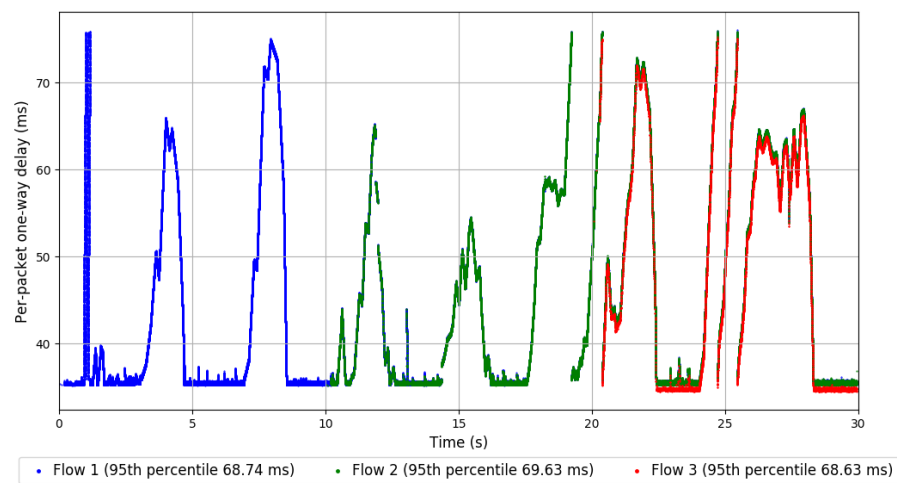
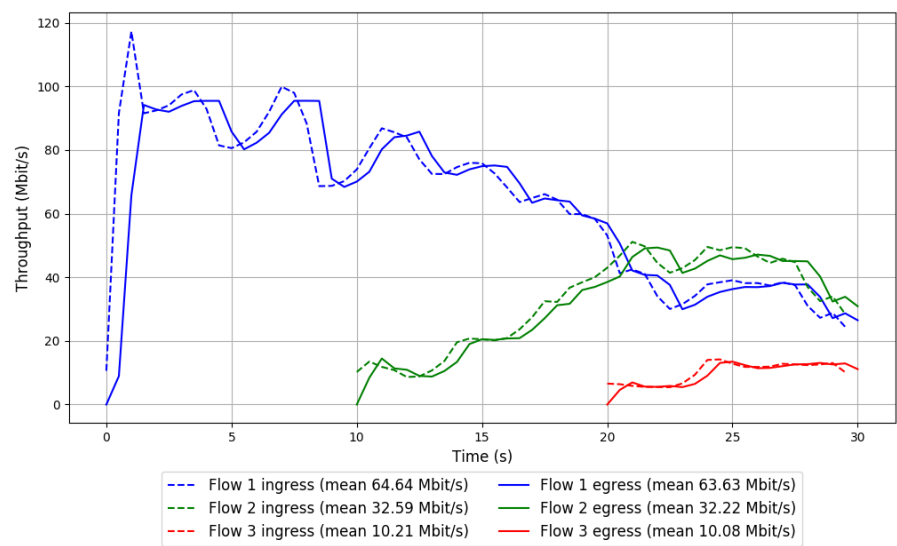
-- Flow 3:

Average throughput: 10.08 Mbit/s

95th percentile per-packet one-way delay: 68.628 ms

Loss rate: 1.46%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-07-24 16:47:00

End at: 2018-07-24 16:47:30

Local clock offset: 0.918 ms

Remote clock offset: 2.586 ms

Below is generated by plot.py at 2018-07-24 18:31:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.36 Mbit/s

95th percentile per-packet one-way delay: 62.452 ms

Loss rate: 1.44%

-- Flow 1:

Average throughput: 69.02 Mbit/s

95th percentile per-packet one-way delay: 61.882 ms

Loss rate: 1.63%

-- Flow 2:

Average throughput: 25.79 Mbit/s

95th percentile per-packet one-way delay: 65.711 ms

Loss rate: 0.77%

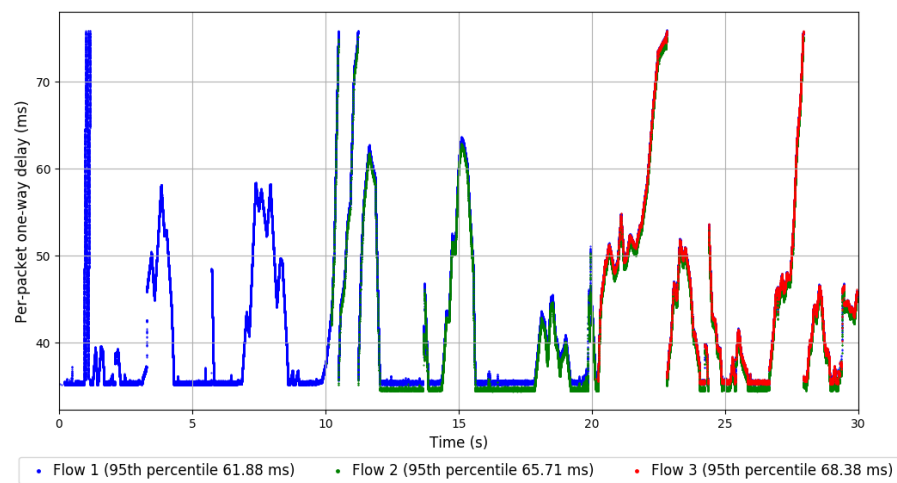
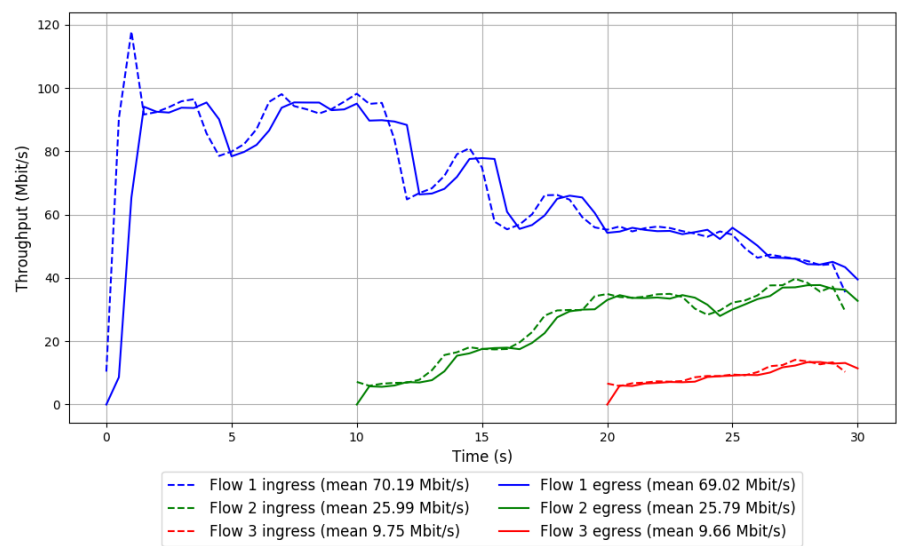
-- Flow 3:

Average throughput: 9.66 Mbit/s

95th percentile per-packet one-way delay: 68.382 ms

Loss rate: 0.91%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-07-24 17:09:56

End at: 2018-07-24 17:10:26

Local clock offset: 0.535 ms

Remote clock offset: 2.01 ms

Below is generated by plot.py at 2018-07-24 18:31:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.95 Mbit/s

95th percentile per-packet one-way delay: 67.454 ms

Loss rate: 3.30%

-- Flow 1:

Average throughput: 63.23 Mbit/s

95th percentile per-packet one-way delay: 66.547 ms

Loss rate: 2.75%

-- Flow 2:

Average throughput: 23.51 Mbit/s

95th percentile per-packet one-way delay: 69.113 ms

Loss rate: 4.71%

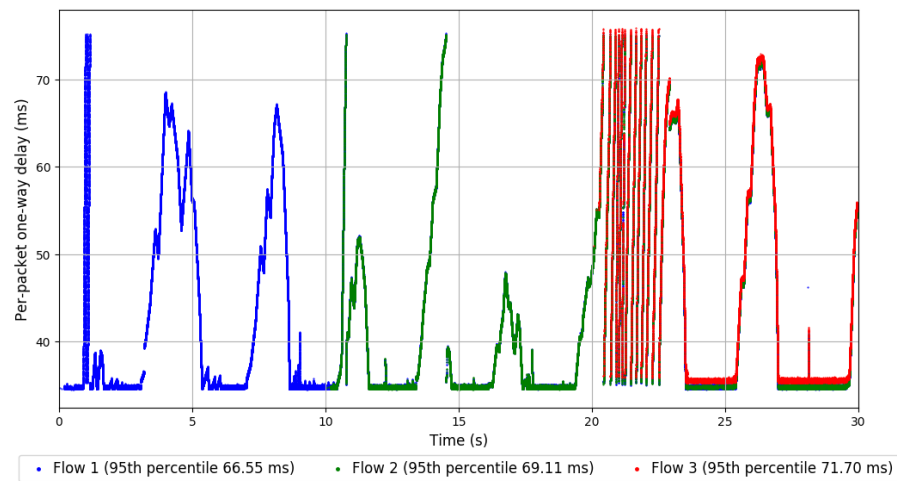
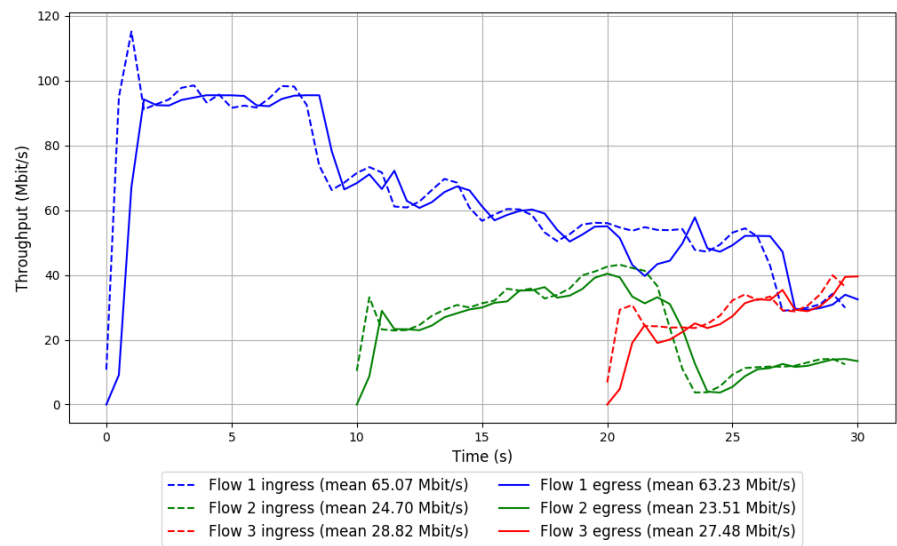
-- Flow 3:

Average throughput: 27.48 Mbit/s

95th percentile per-packet one-way delay: 71.703 ms

Loss rate: 4.60%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-07-24 17:32:52

End at: 2018-07-24 17:33:22

Local clock offset: 0.58 ms

Remote clock offset: 1.768 ms

Below is generated by plot.py at 2018-07-24 18:31:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.70 Mbit/s

95th percentile per-packet one-way delay: 68.387 ms

Loss rate: 1.18%

-- Flow 1:

Average throughput: 65.71 Mbit/s

95th percentile per-packet one-way delay: 68.198 ms

Loss rate: 1.40%

-- Flow 2:

Average throughput: 27.43 Mbit/s

95th percentile per-packet one-way delay: 68.434 ms

Loss rate: 0.52%

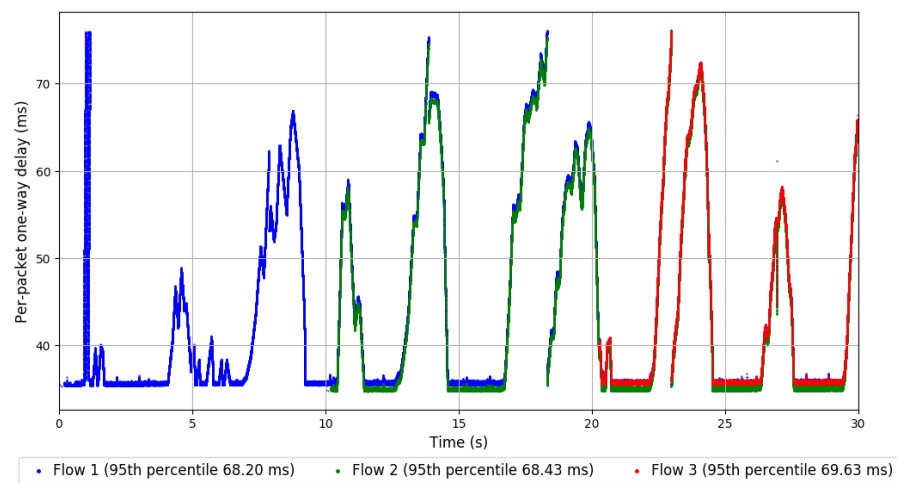
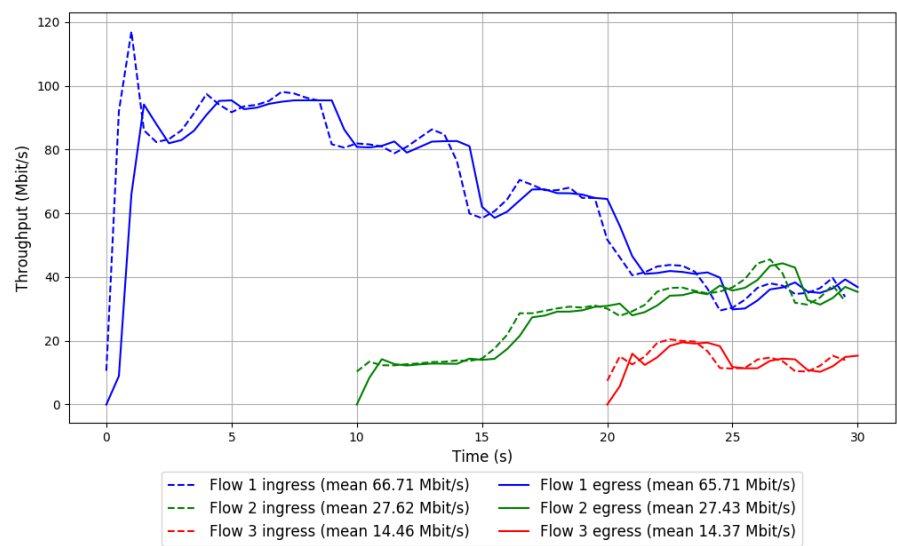
-- Flow 3:

Average throughput: 14.37 Mbit/s

95th percentile per-packet one-way delay: 69.627 ms

Loss rate: 0.55%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-07-24 17:55:47

End at: 2018-07-24 17:56:17

Local clock offset: 3.913 ms

Remote clock offset: 1.751 ms

Below is generated by plot.py at 2018-07-24 18:31:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.73 Mbit/s

95th percentile per-packet one-way delay: 69.400 ms

Loss rate: 1.52%

-- Flow 1:

Average throughput: 67.97 Mbit/s

95th percentile per-packet one-way delay: 69.107 ms

Loss rate: 1.62%

-- Flow 2:

Average throughput: 25.55 Mbit/s

95th percentile per-packet one-way delay: 70.345 ms

Loss rate: 1.18%

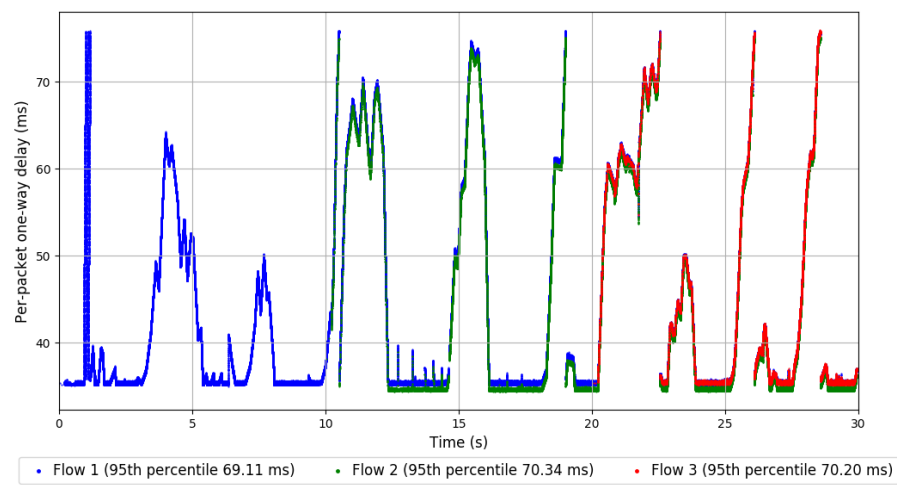
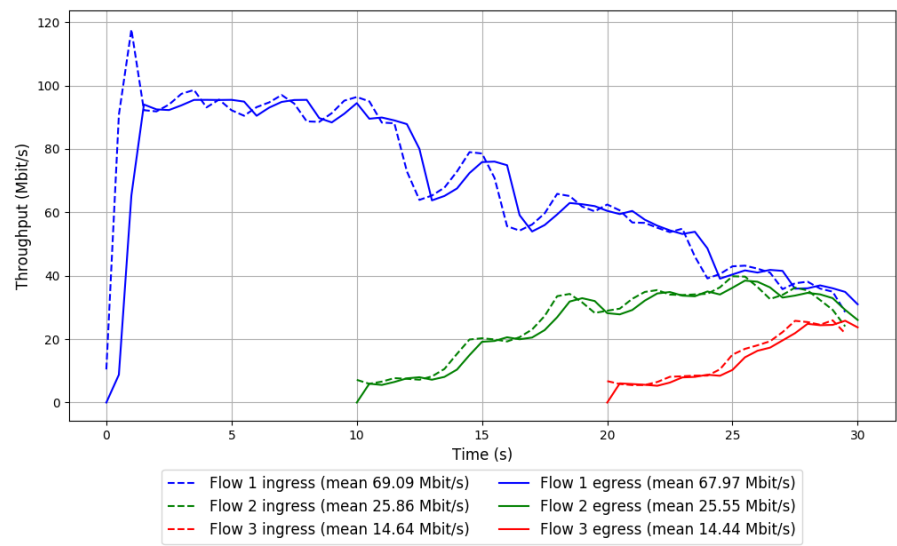
-- Flow 3:

Average throughput: 14.44 Mbit/s

95th percentile per-packet one-way delay: 70.201 ms

Loss rate: 1.34%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-07-24 14:35:43

End at: 2018-07-24 14:36:13

Local clock offset: 2.016 ms

Remote clock offset: 4.239 ms

Below is generated by plot.py at 2018-07-24 18:31:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.38 Mbit/s

95th percentile per-packet one-way delay: 73.709 ms

Loss rate: 2.40%

-- Flow 1:

Average throughput: 58.11 Mbit/s

95th percentile per-packet one-way delay: 73.606 ms

Loss rate: 2.88%

-- Flow 2:

Average throughput: 22.64 Mbit/s

95th percentile per-packet one-way delay: 73.438 ms

Loss rate: 1.08%

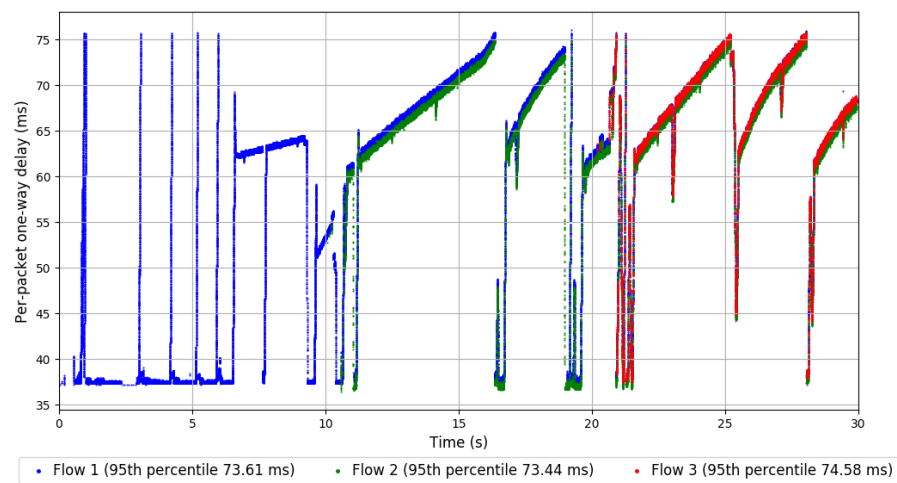
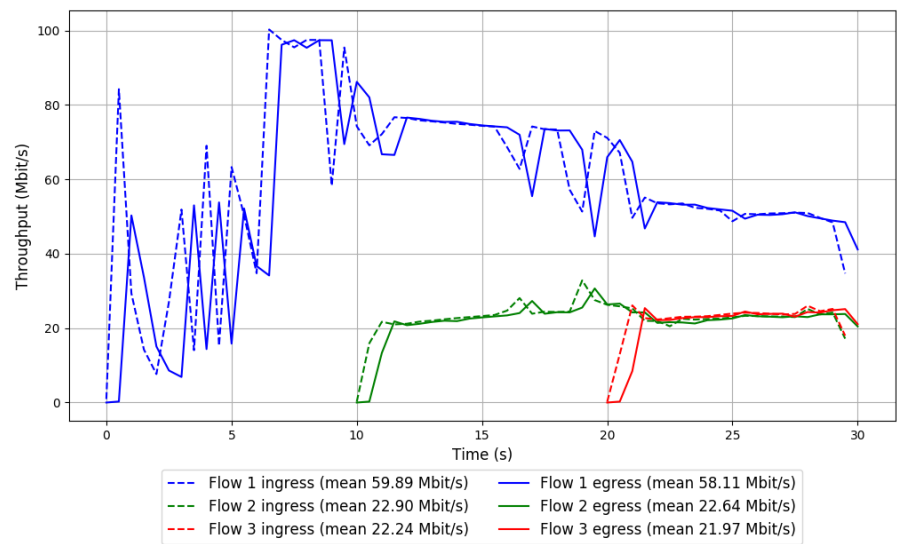
-- Flow 3:

Average throughput: 21.97 Mbit/s

95th percentile per-packet one-way delay: 74.576 ms

Loss rate: 1.17%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-07-24 14:58:41

End at: 2018-07-24 14:59:11

Local clock offset: 4.879 ms

Remote clock offset: 4.769 ms

Below is generated by plot.py at 2018-07-24 18:31:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.74 Mbit/s

95th percentile per-packet one-way delay: 73.253 ms

Loss rate: 2.34%

-- Flow 1:

Average throughput: 56.76 Mbit/s

95th percentile per-packet one-way delay: 73.182 ms

Loss rate: 2.91%

-- Flow 2:

Average throughput: 30.19 Mbit/s

95th percentile per-packet one-way delay: 73.432 ms

Loss rate: 1.10%

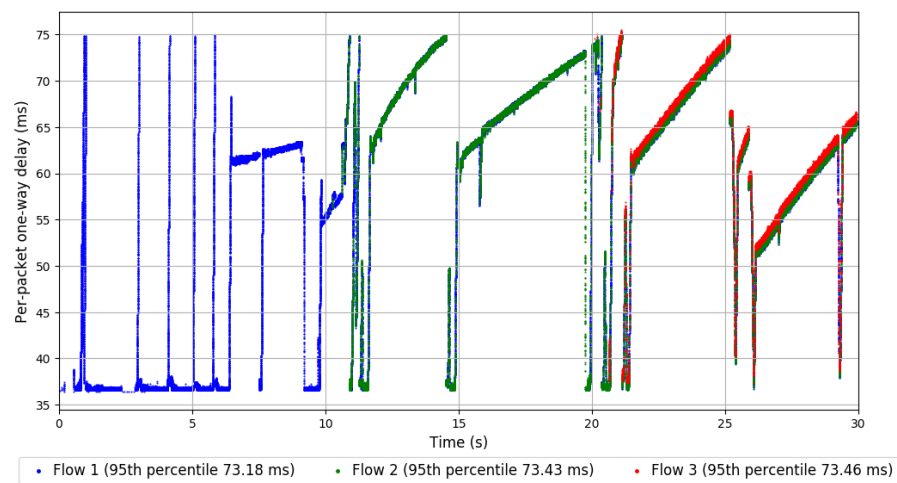
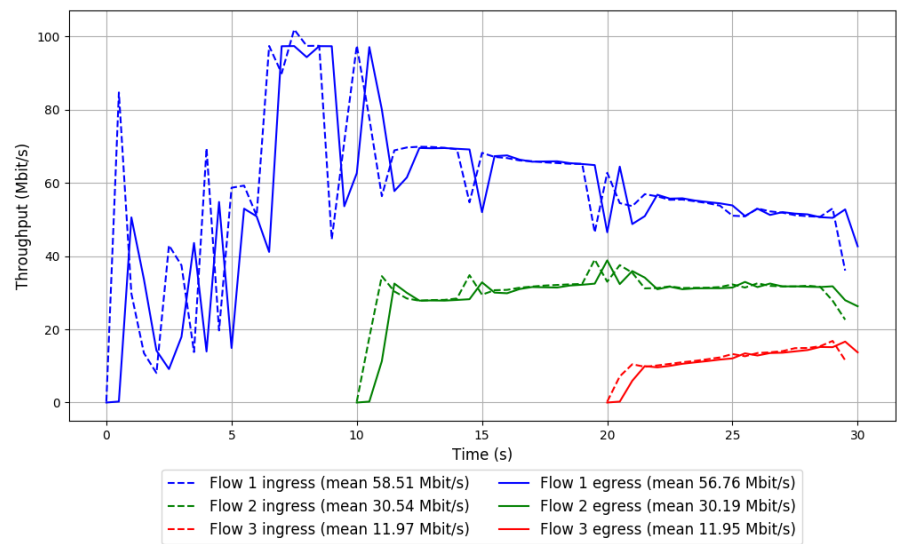
-- Flow 3:

Average throughput: 11.95 Mbit/s

95th percentile per-packet one-way delay: 73.456 ms

Loss rate: 0.31%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-07-24 15:21:53

End at: 2018-07-24 15:22:23

Local clock offset: 0.561 ms

Remote clock offset: 1.895 ms

Below is generated by plot.py at 2018-07-24 18:31:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.66 Mbit/s

95th percentile per-packet one-way delay: 71.243 ms

Loss rate: 2.51%

-- Flow 1:

Average throughput: 60.63 Mbit/s

95th percentile per-packet one-way delay: 71.512 ms

Loss rate: 2.88%

-- Flow 2:

Average throughput: 14.04 Mbit/s

95th percentile per-packet one-way delay: 70.551 ms

Loss rate: 1.09%

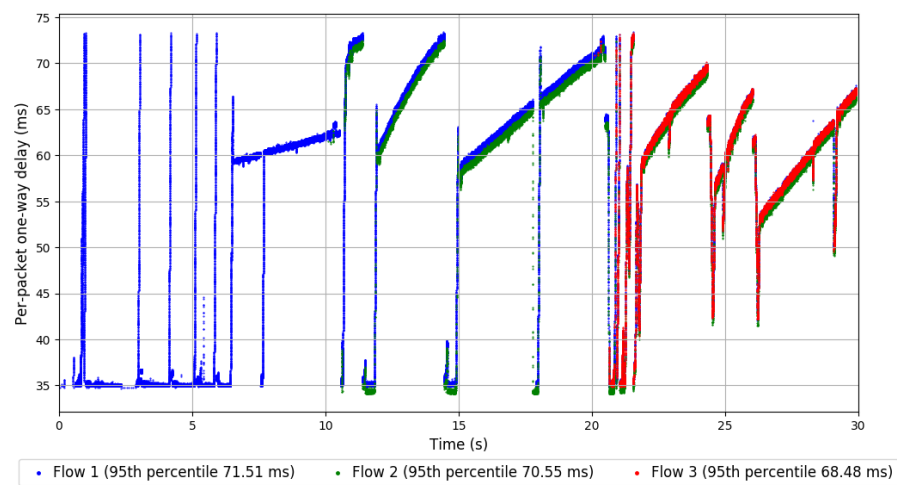
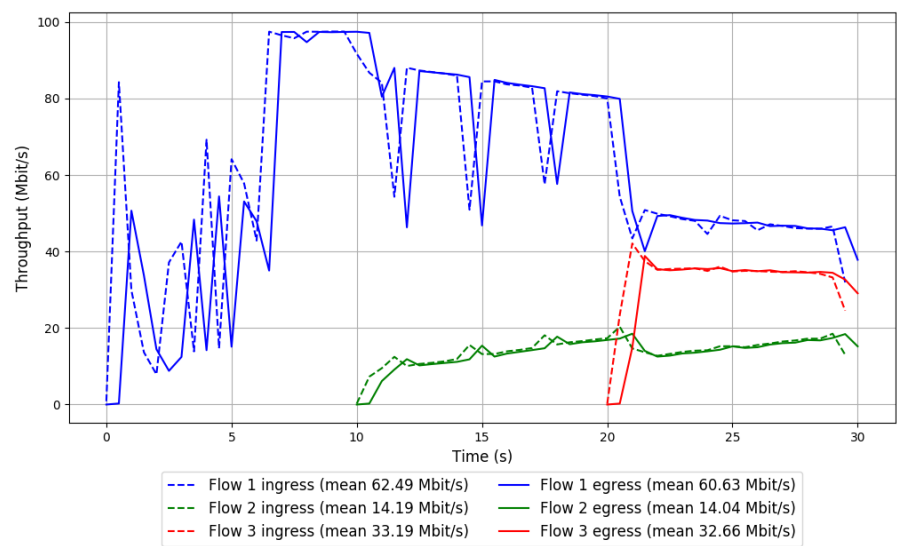
-- Flow 3:

Average throughput: 32.66 Mbit/s

95th percentile per-packet one-way delay: 68.477 ms

Loss rate: 1.62%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-07-24 15:44:51

End at: 2018-07-24 15:45:21

Local clock offset: -0.199 ms

Remote clock offset: 4.334 ms

Below is generated by plot.py at 2018-07-24 18:31:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.17 Mbit/s

95th percentile per-packet one-way delay: 72.946 ms

Loss rate: 2.66%

-- Flow 1:

Average throughput: 57.80 Mbit/s

95th percentile per-packet one-way delay: 72.387 ms

Loss rate: 3.19%

-- Flow 2:

Average throughput: 22.87 Mbit/s

95th percentile per-packet one-way delay: 73.757 ms

Loss rate: 1.41%

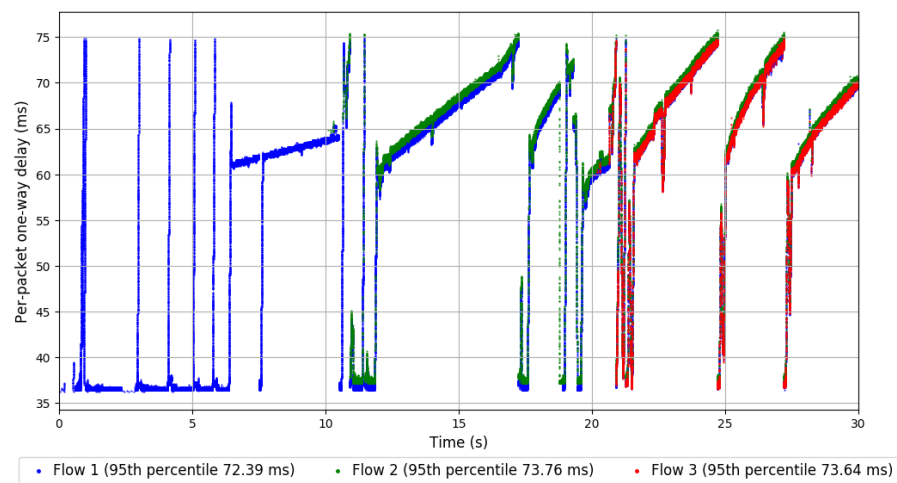
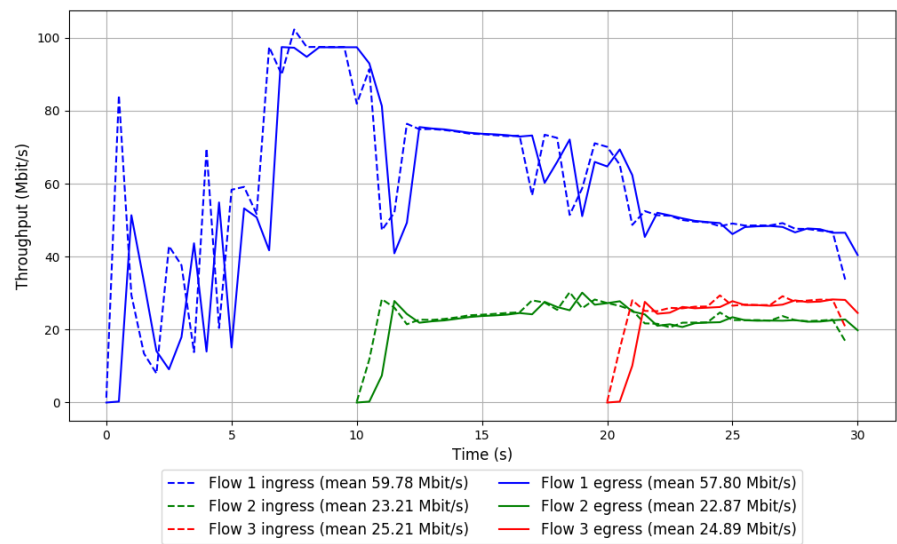
-- Flow 3:

Average throughput: 24.89 Mbit/s

95th percentile per-packet one-way delay: 73.635 ms

Loss rate: 1.19%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-07-24 16:07:53

End at: 2018-07-24 16:08:23

Local clock offset: 0.104 ms

Remote clock offset: 2.56 ms

Below is generated by plot.py at 2018-07-24 18:32:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.36 Mbit/s

95th percentile per-packet one-way delay: 71.049 ms

Loss rate: 4.05%

-- Flow 1:

Average throughput: 57.97 Mbit/s

95th percentile per-packet one-way delay: 71.298 ms

Loss rate: 3.50%

-- Flow 2:

Average throughput: 12.32 Mbit/s

95th percentile per-packet one-way delay: 70.972 ms

Loss rate: 2.25%

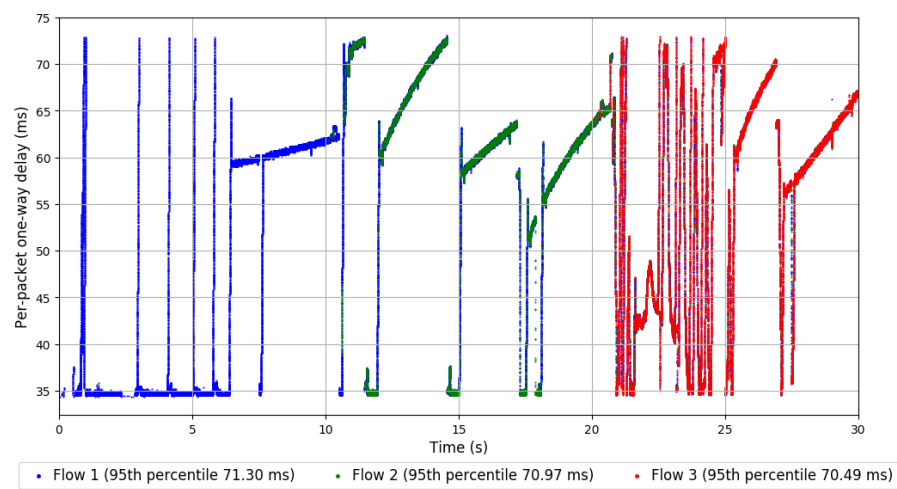
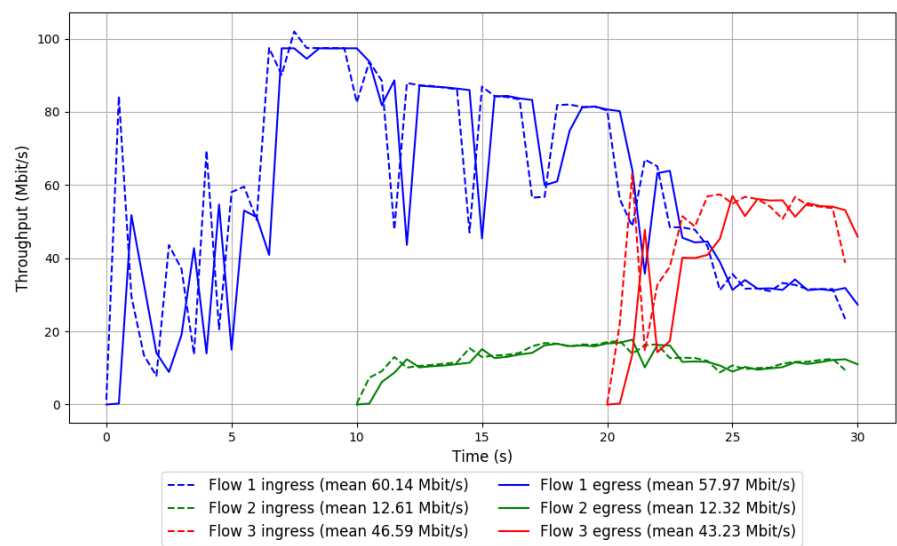
-- Flow 3:

Average throughput: 43.23 Mbit/s

95th percentile per-packet one-way delay: 70.490 ms

Loss rate: 7.18%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-07-24 16:30:49

End at: 2018-07-24 16:31:19

Local clock offset: 0.88 ms

Remote clock offset: 2.588 ms

Below is generated by plot.py at 2018-07-24 18:32:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.95 Mbit/s

95th percentile per-packet one-way delay: 71.734 ms

Loss rate: 1.77%

-- Flow 1:

Average throughput: 64.28 Mbit/s

95th percentile per-packet one-way delay: 71.284 ms

Loss rate: 1.95%

-- Flow 2:

Average throughput: 26.75 Mbit/s

95th percentile per-packet one-way delay: 72.498 ms

Loss rate: 1.27%

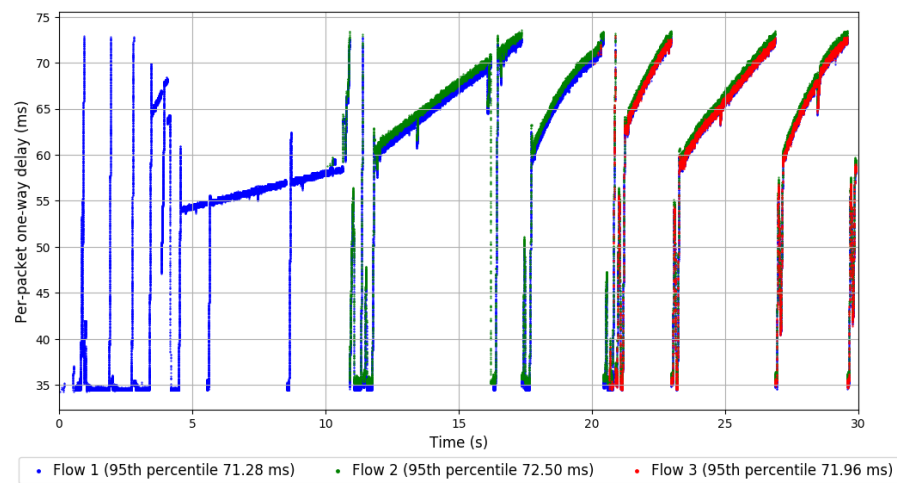
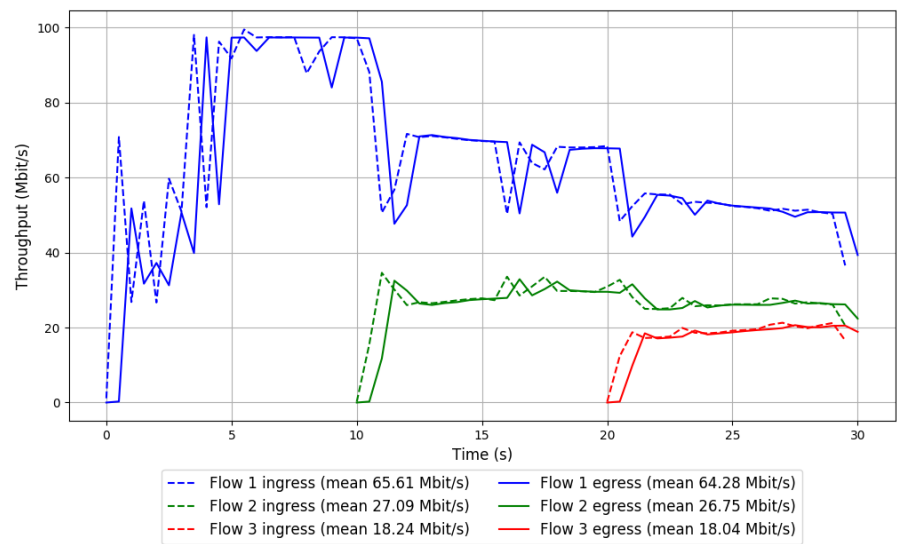
-- Flow 3:

Average throughput: 18.04 Mbit/s

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

Loss rate: 1.21%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-07-24 16:53:47

End at: 2018-07-24 16:54:17

Local clock offset: 0.949 ms

Remote clock offset: 2.199 ms

Below is generated by plot.py at 2018-07-24 18:32:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.82 Mbit/s

95th percentile per-packet one-way delay: 71.729 ms

Loss rate: 1.59%

-- Flow 1:

Average throughput: 63.32 Mbit/s

95th percentile per-packet one-way delay: 71.928 ms

Loss rate: 1.80%

-- Flow 2:

Average throughput: 25.05 Mbit/s

95th percentile per-packet one-way delay: 71.752 ms

Loss rate: 1.19%

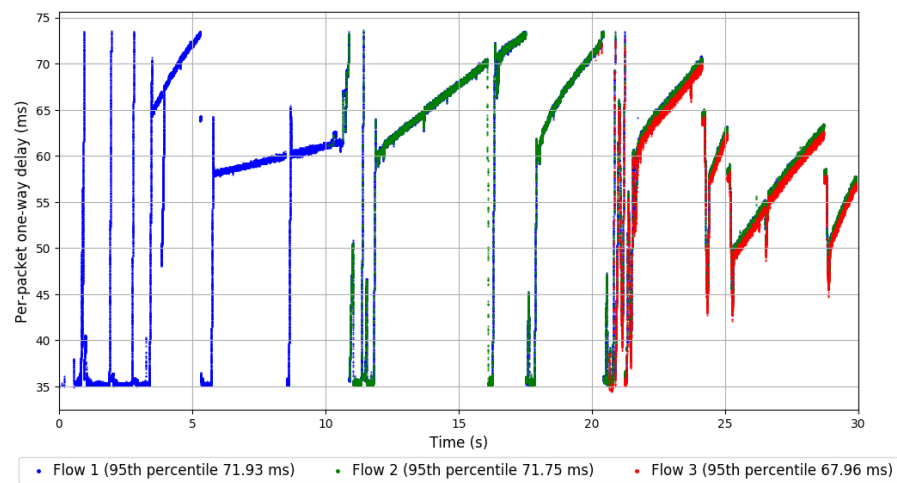
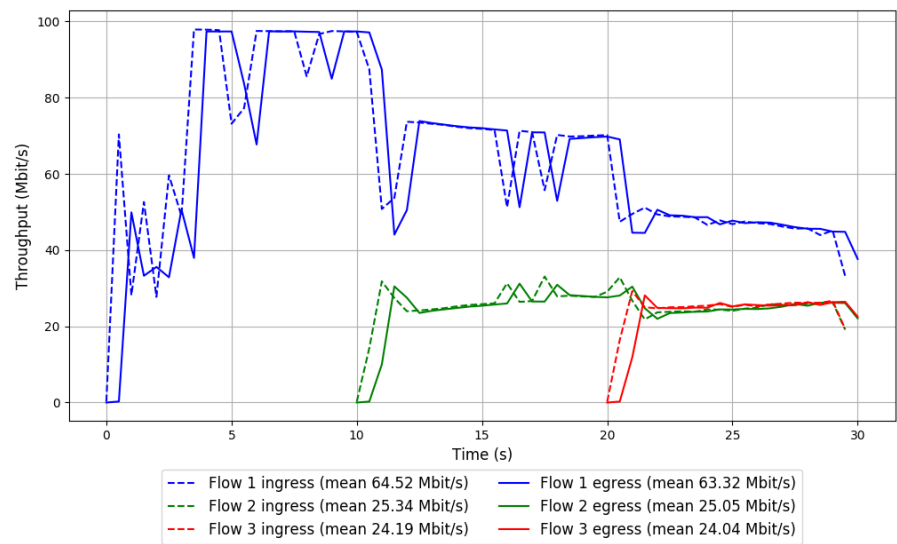
-- Flow 3:

Average throughput: 24.04 Mbit/s

95th percentile per-packet one-way delay: 67.959 ms

Loss rate: 0.77%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-07-24 17:16:43

End at: 2018-07-24 17:17:13

Local clock offset: 0.465 ms

Remote clock offset: 1.993 ms

Below is generated by plot.py at 2018-07-24 18:32:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.78 Mbit/s

95th percentile per-packet one-way delay: 71.464 ms

Loss rate: 2.56%

-- Flow 1:

Average throughput: 56.54 Mbit/s

95th percentile per-packet one-way delay: 71.358 ms

Loss rate: 3.07%

-- Flow 2:

Average throughput: 28.02 Mbit/s

95th percentile per-packet one-way delay: 71.273 ms

Loss rate: 1.21%

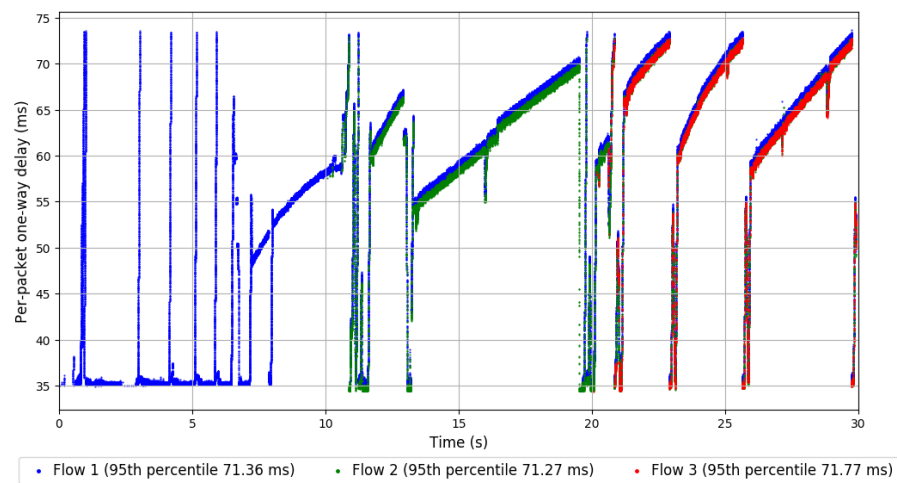
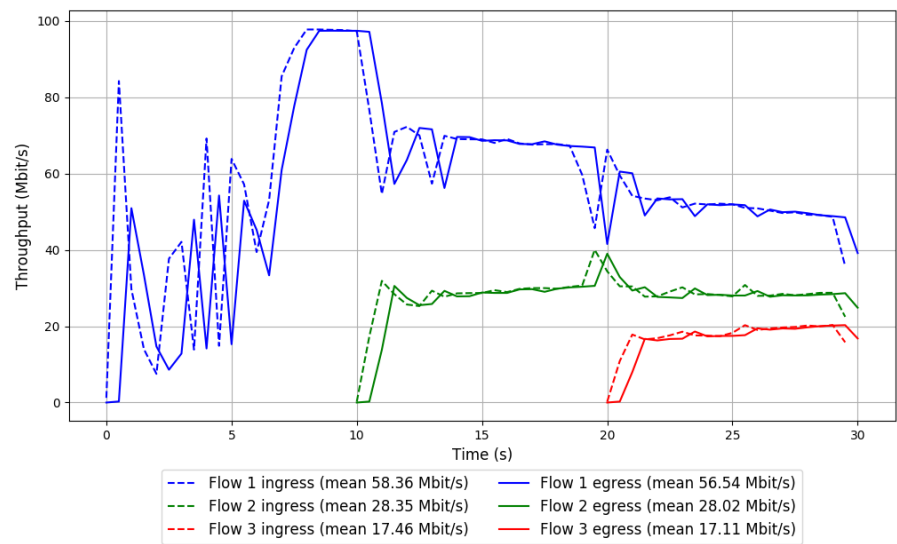
-- Flow 3:

Average throughput: 17.11 Mbit/s

95th percentile per-packet one-way delay: 71.772 ms

Loss rate: 1.85%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-07-24 17:39:37

End at: 2018-07-24 17:40:07

Local clock offset: 2.215 ms

Remote clock offset: 1.71 ms

Below is generated by plot.py at 2018-07-24 18:32:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.31 Mbit/s

95th percentile per-packet one-way delay: 71.517 ms

Loss rate: 2.76%

-- Flow 1:

Average throughput: 53.10 Mbit/s

95th percentile per-packet one-way delay: 71.258 ms

Loss rate: 3.48%

-- Flow 2:

Average throughput: 37.49 Mbit/s

95th percentile per-packet one-way delay: 71.702 ms

Loss rate: 1.43%

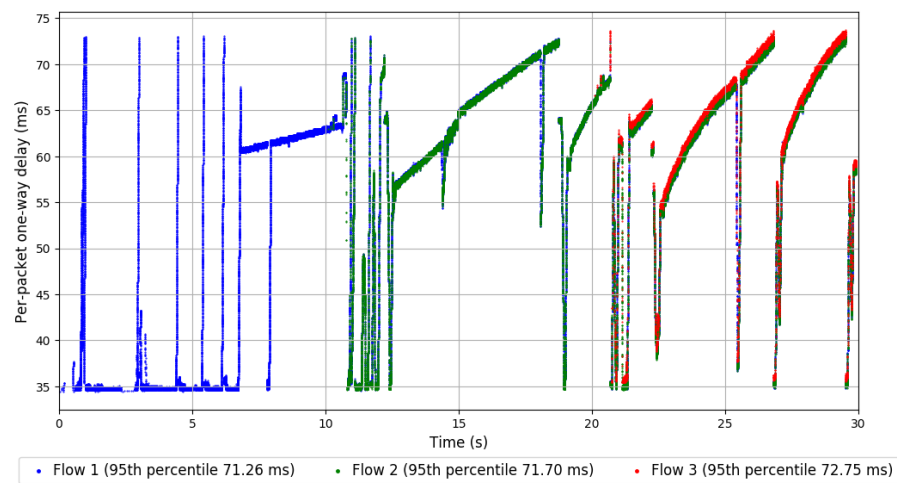
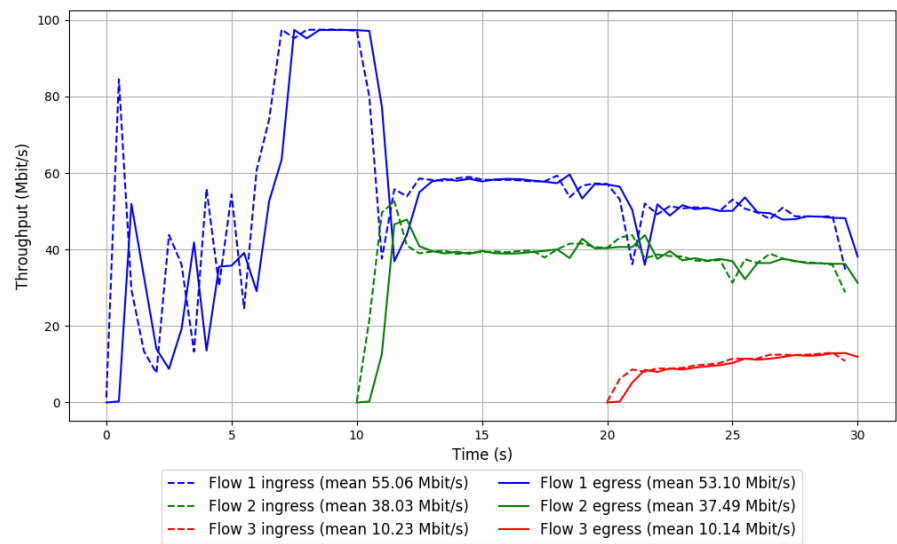
-- Flow 3:

Average throughput: 10.14 Mbit/s

95th percentile per-packet one-way delay: 72.749 ms

Loss rate: 0.96%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-07-24 18:02:36

End at: 2018-07-24 18:03:06

Local clock offset: 3.928 ms

Remote clock offset: 1.83 ms

Below is generated by plot.py at 2018-07-24 18:32:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.19 Mbit/s

95th percentile per-packet one-way delay: 70.742 ms

Loss rate: 1.61%

-- Flow 1:

Average throughput: 62.78 Mbit/s

95th percentile per-packet one-way delay: 70.348 ms

Loss rate: 1.84%

-- Flow 2:

Average throughput: 25.34 Mbit/s

95th percentile per-packet one-way delay: 70.889 ms

Loss rate: 0.99%

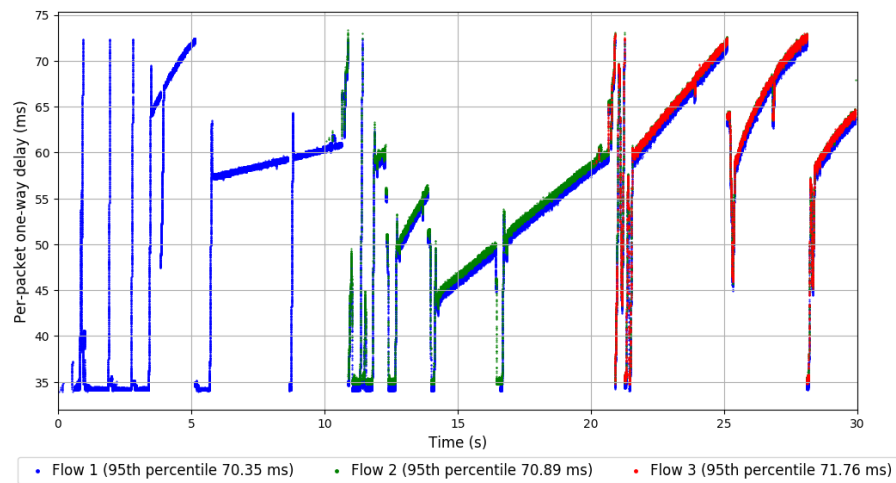
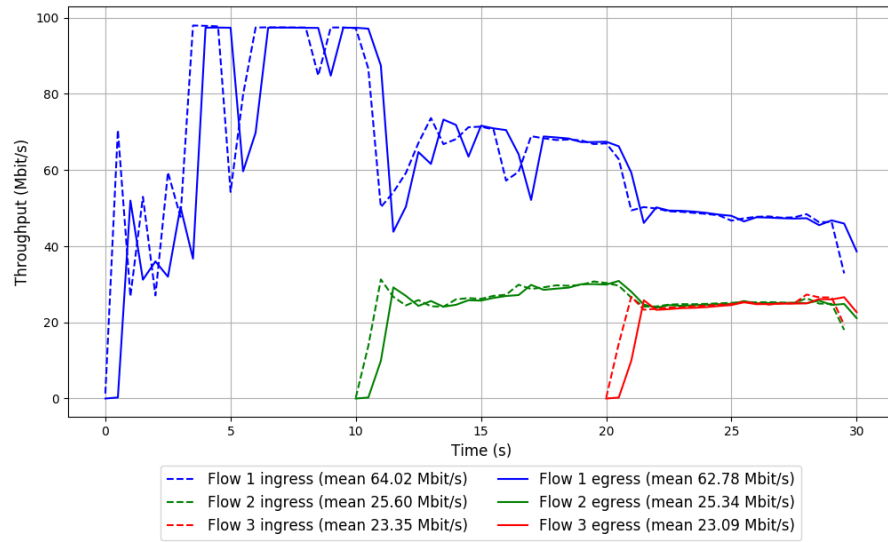
-- Flow 3:

Average throughput: 23.09 Mbit/s

95th percentile per-packet one-way delay: 71.758 ms

Loss rate: 1.03%

Run 10: Report of QUIC Cubic — Data Link

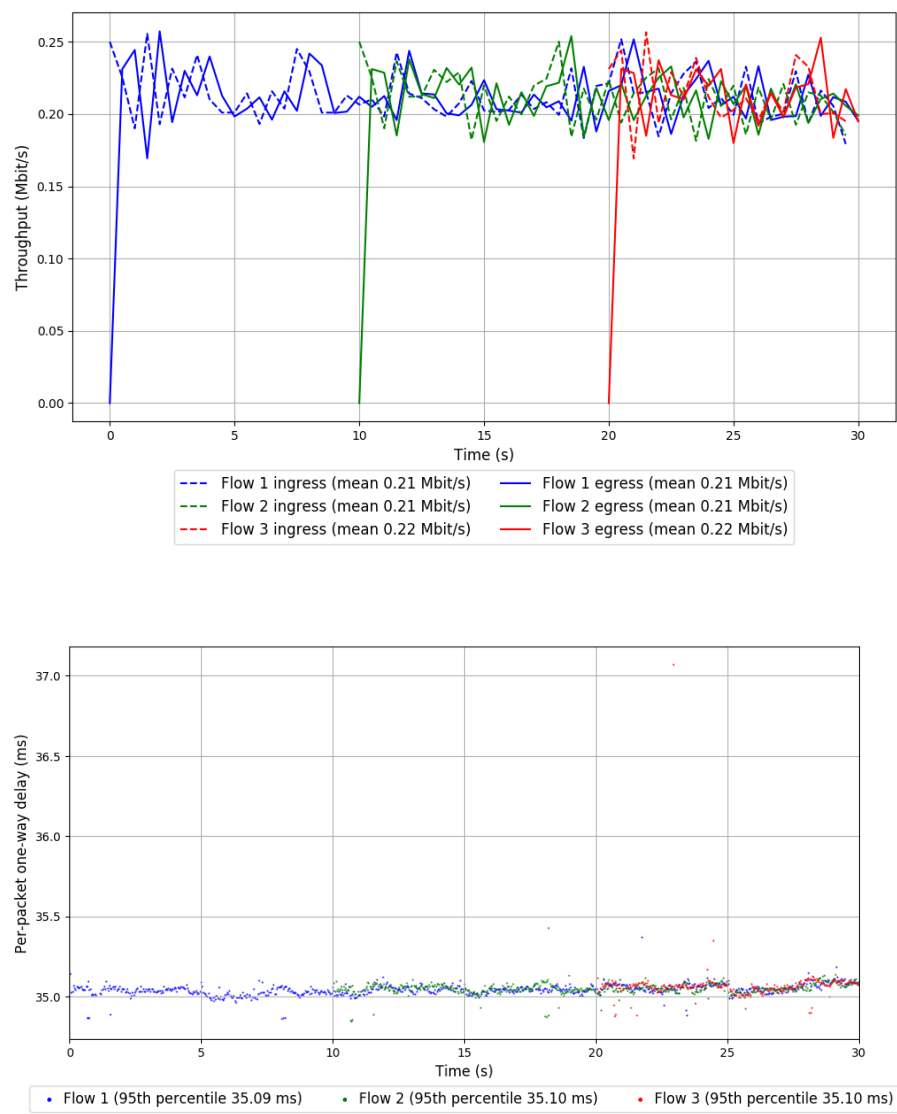


```
Run 1: Statistics of SReAM

Start at: 2018-07-24 14:27:35
End at: 2018-07-24 14:28:05
Local clock offset: 0.614 ms
Remote clock offset: 1.987 ms

# Below is generated by plot.py at 2018-07-24 18:32:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 35.099 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 35.091 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 35.098 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 35.105 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

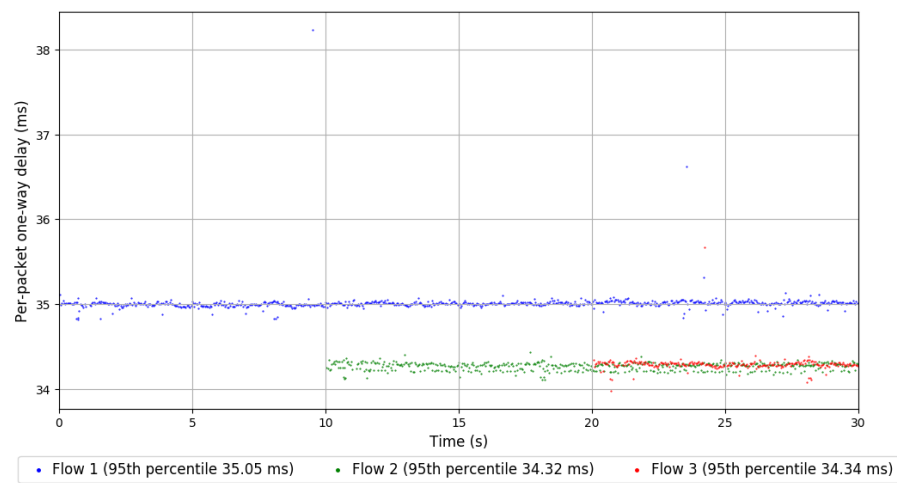
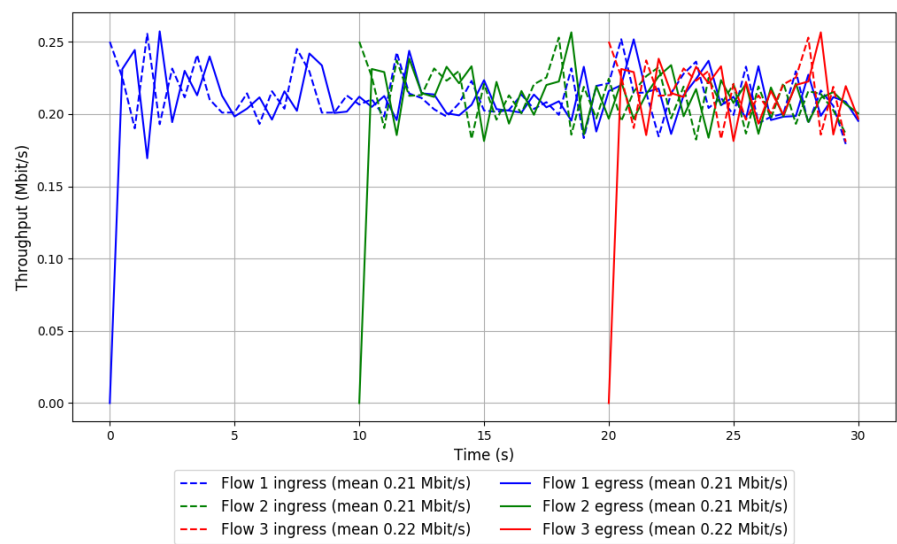


```
Run 2: Statistics of SReAM

Start at: 2018-07-24 14:50:36
End at: 2018-07-24 14:51:06
Local clock offset: 4.385 ms
Remote clock offset: 2.155 ms

# Below is generated by plot.py at 2018-07-24 18:32:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 35.039 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 35.049 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 34.323 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 34.338 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-07-24 15:13:48

End at: 2018-07-24 15:14:18

Local clock offset: 1.494 ms

Remote clock offset: 1.873 ms

Below is generated by plot.py at 2018-07-24 18:32:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 34.884 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 34.203 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 34.189 ms

Loss rate: 0.00%

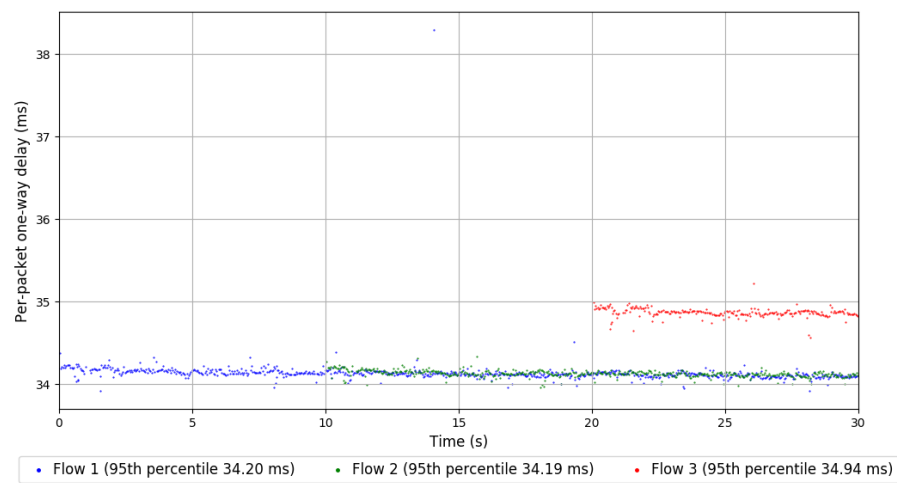
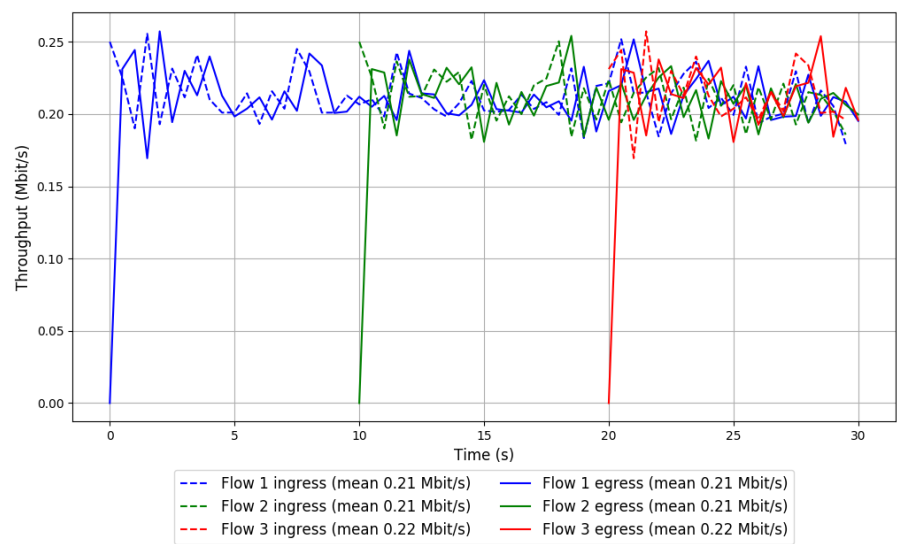
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 34.944 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-07-24 15:36:46

End at: 2018-07-24 15:37:16

Local clock offset: -0.071 ms

Remote clock offset: 4.303 ms

Below is generated by plot.py at 2018-07-24 18:32:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 36.675 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 36.663 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 36.659 ms

Loss rate: 0.00%

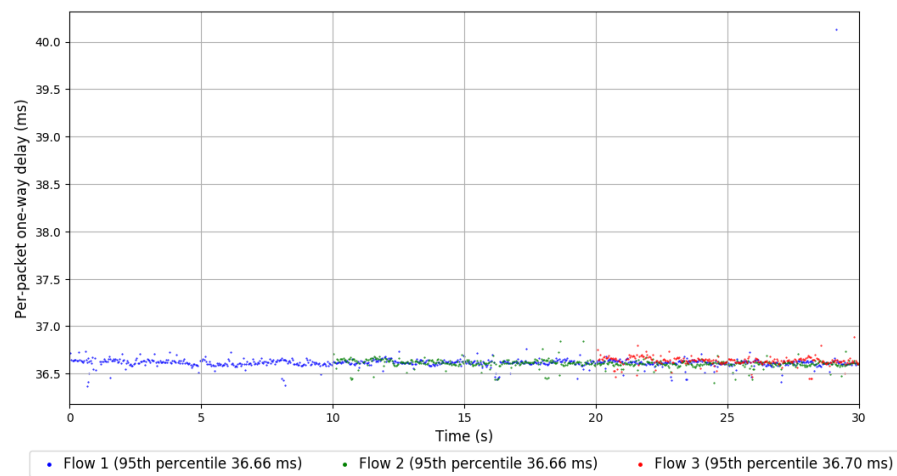
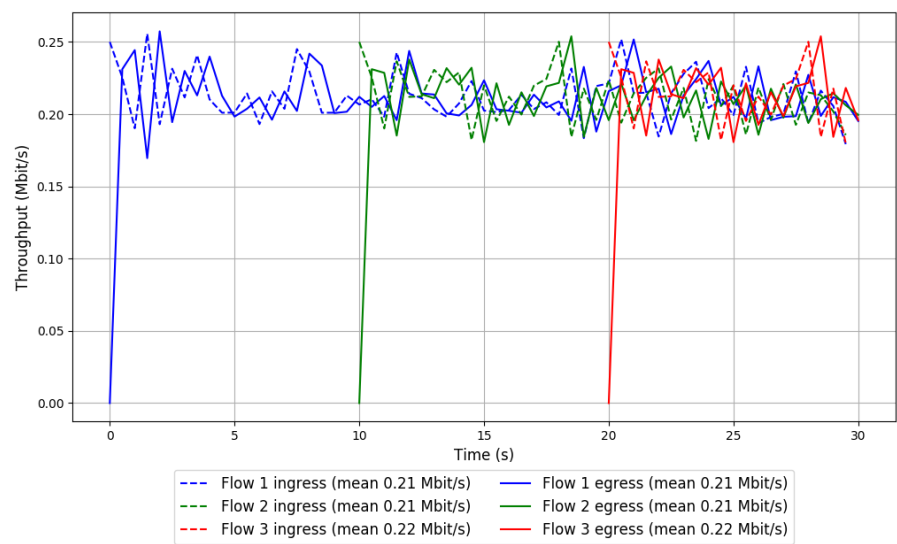
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 36.695 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-07-24 15:59:50

End at: 2018-07-24 16:00:20

Local clock offset: -0.473 ms

Remote clock offset: 3.822 ms

Below is generated by plot.py at 2018-07-24 18:32:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 36.678 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 35.968 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 36.713 ms

Loss rate: 0.00%

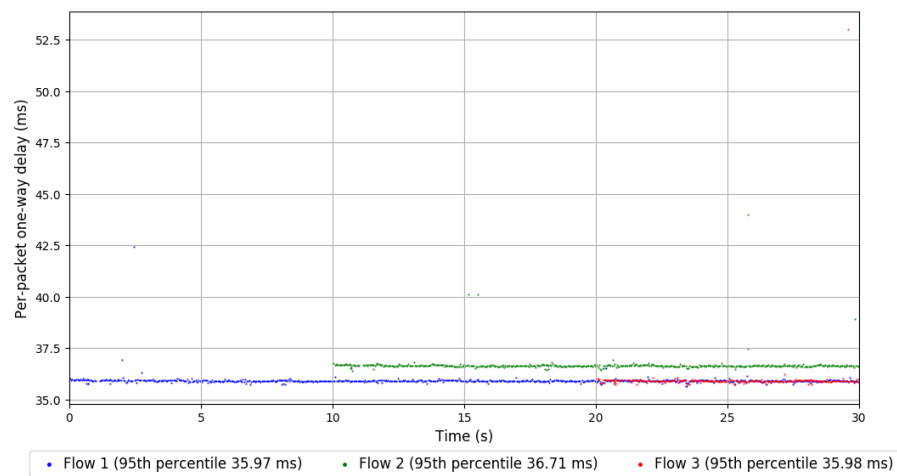
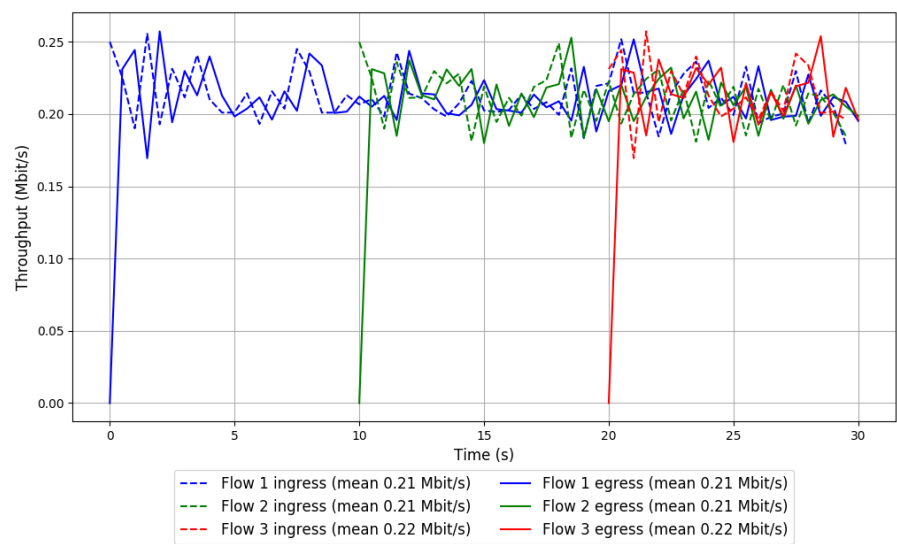
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 35.978 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-07-24 16:22:43

End at: 2018-07-24 16:23:13

Local clock offset: 0.825 ms

Remote clock offset: 2.547 ms

Below is generated by plot.py at 2018-07-24 18:32:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 35.340 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 34.596 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 35.367 ms

Loss rate: 0.00%

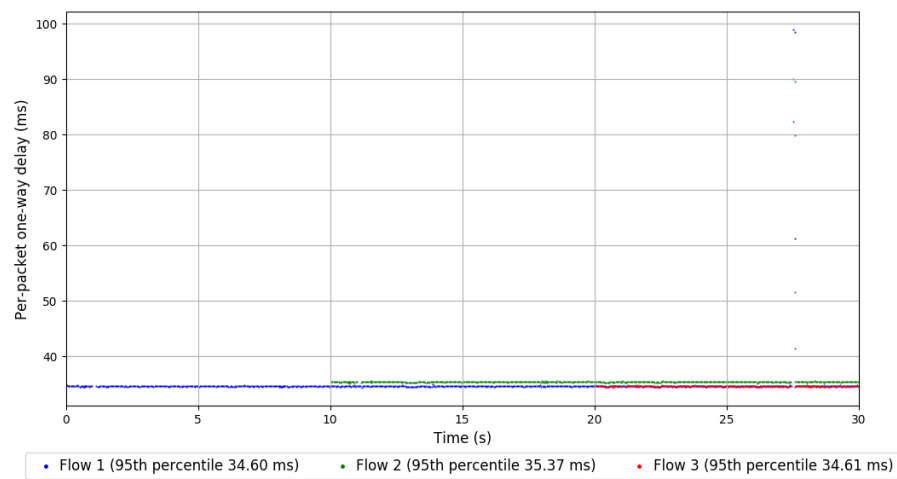
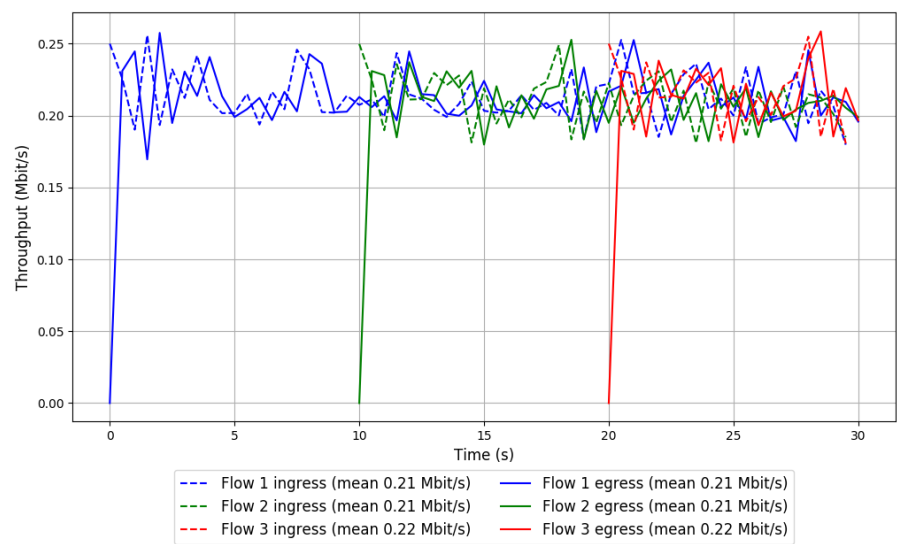
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 34.614 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SReAM

Start at: 2018-07-24 16:45:42

End at: 2018-07-24 16:46:13

Local clock offset: 0.923 ms

Remote clock offset: 2.701 ms

Below is generated by plot.py at 2018-07-24 18:32:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 35.381 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 35.380 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 34.669 ms

Loss rate: 0.00%

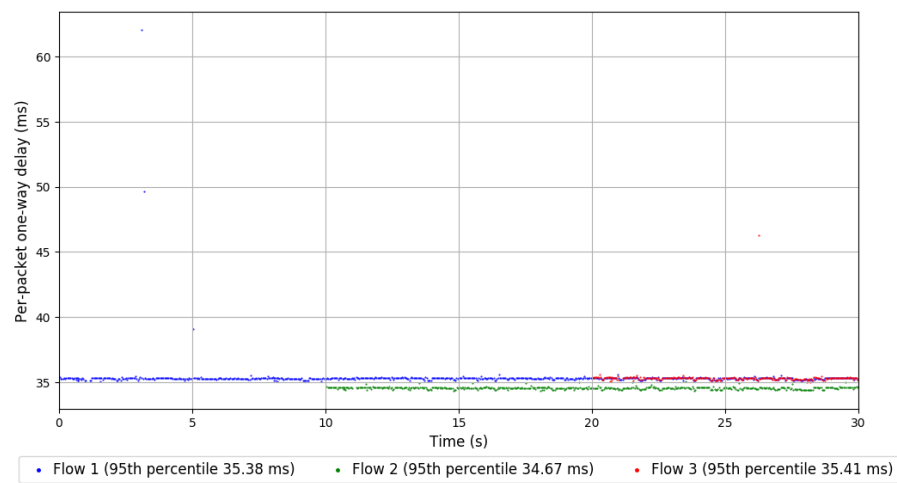
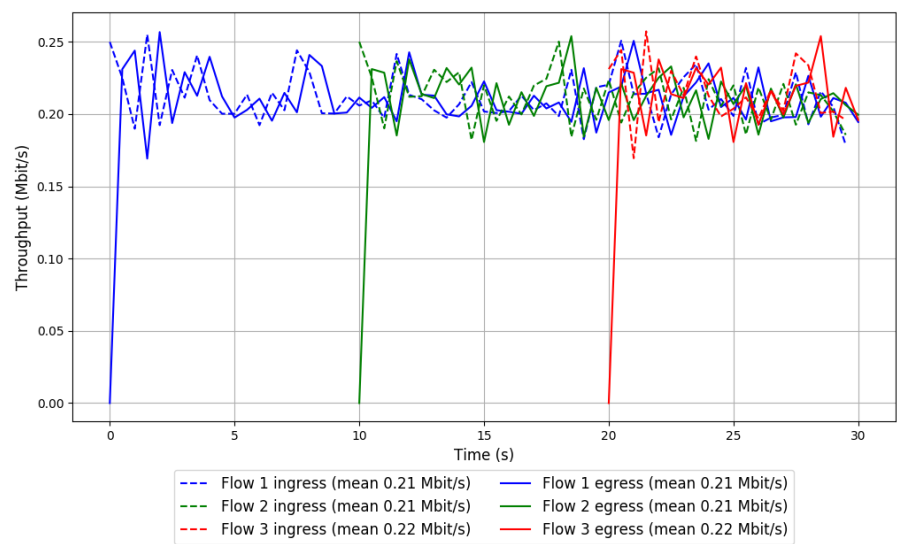
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 35.410 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-07-24 17:08:40

End at: 2018-07-24 17:09:10

Local clock offset: 0.674 ms

Remote clock offset: 1.952 ms

Below is generated by plot.py at 2018-07-24 18:32:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 35.319 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 35.330 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 34.582 ms

Loss rate: 0.00%

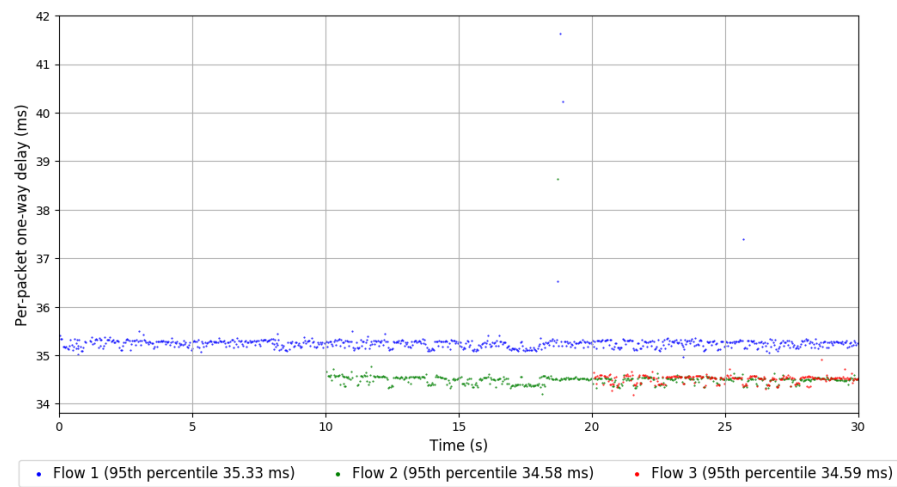
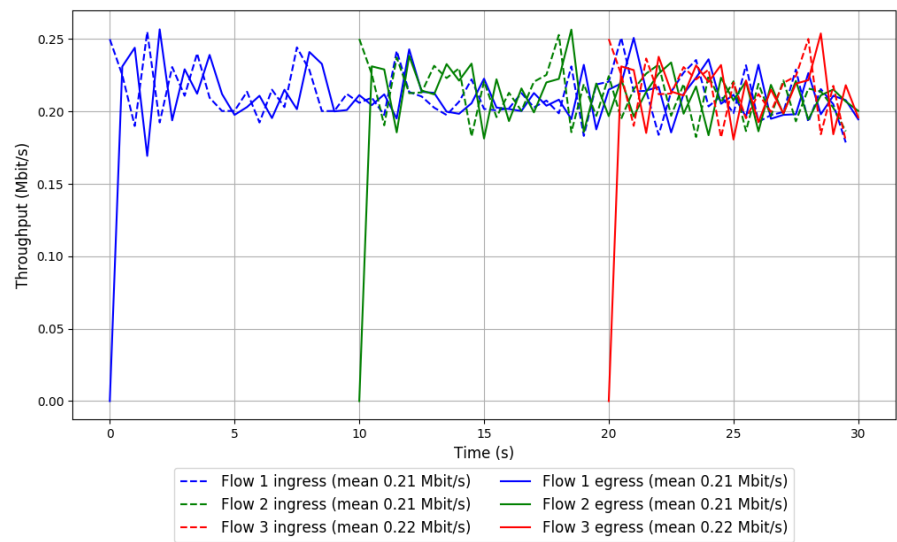
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 34.593 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-07-24 17:31:35

End at: 2018-07-24 17:32:05

Local clock offset: 0.172 ms

Remote clock offset: 1.791 ms

Below is generated by plot.py at 2018-07-24 18:32:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 35.642 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 35.667 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 34.922 ms

Loss rate: 0.23%

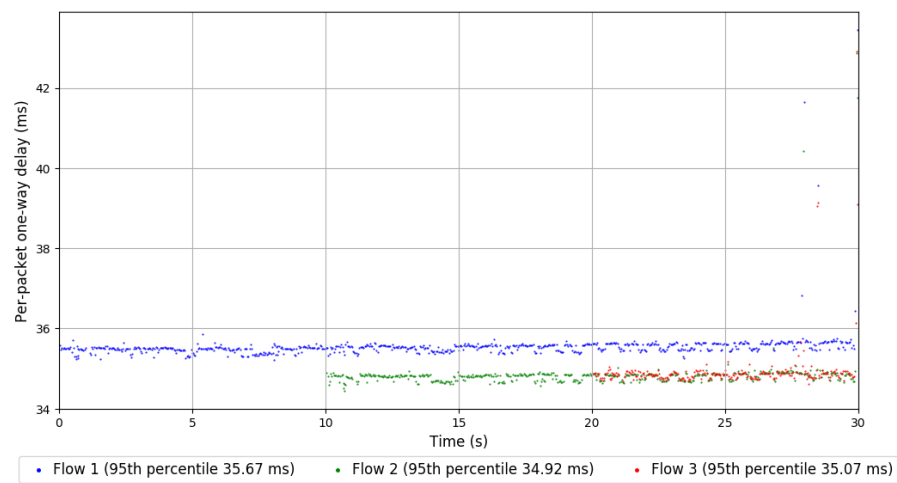
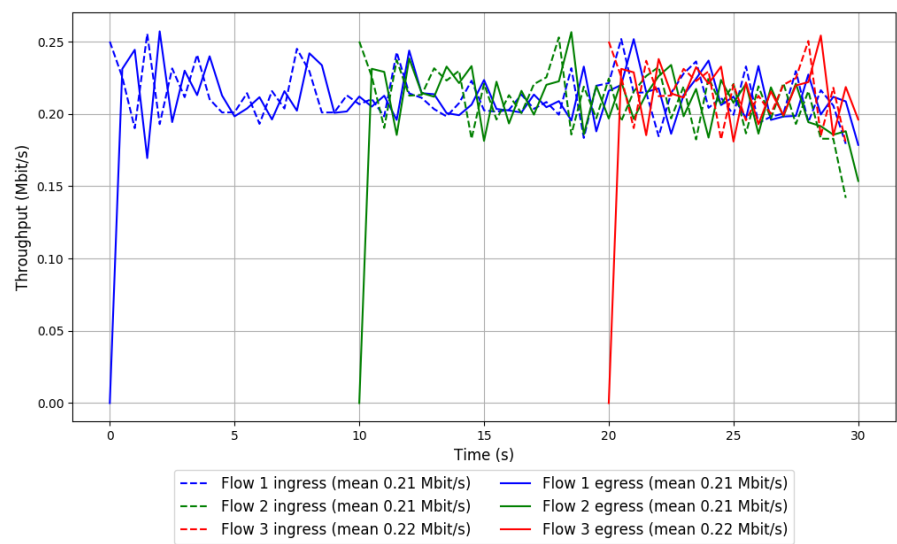
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 35.067 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-07-24 17:54:30

End at: 2018-07-24 17:55:00

Local clock offset: 3.752 ms

Remote clock offset: 1.742 ms

Below is generated by plot.py at 2018-07-24 18:32:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 35.490 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 35.494 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 34.746 ms

Loss rate: 0.00%

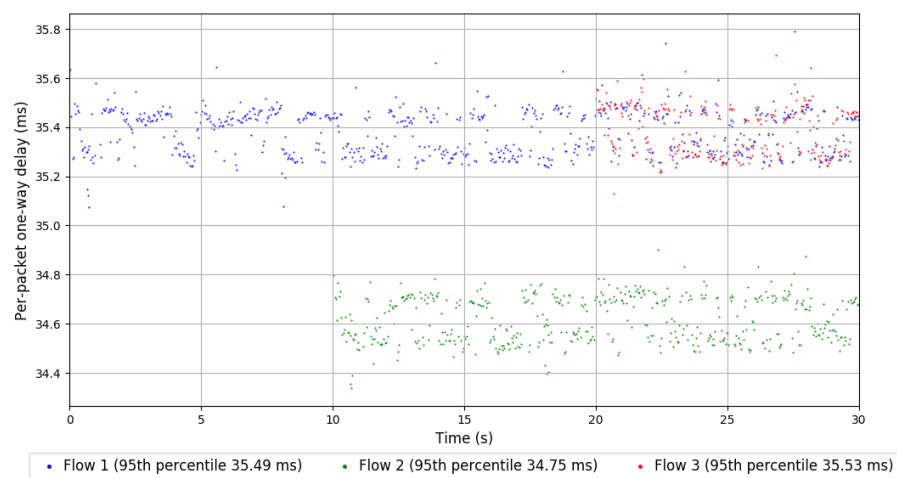
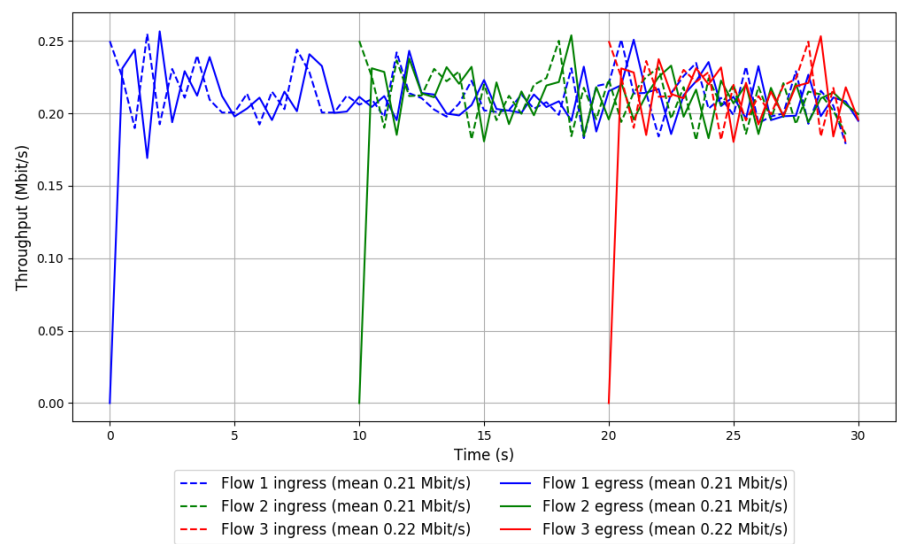
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 35.527 ms

Loss rate: 0.00%

Run 10: Report of SCReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-07-24 14:32:58

End at: 2018-07-24 14:33:28

Local clock offset: 1.158 ms

Remote clock offset: 4.232 ms

Below is generated by plot.py at 2018-07-24 18:32:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 21.16 Mbit/s

95th percentile per-packet one-way delay: 44.744 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 10.71 Mbit/s

95th percentile per-packet one-way delay: 44.233 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 10.78 Mbit/s

95th percentile per-packet one-way delay: 44.508 ms

Loss rate: 0.00%

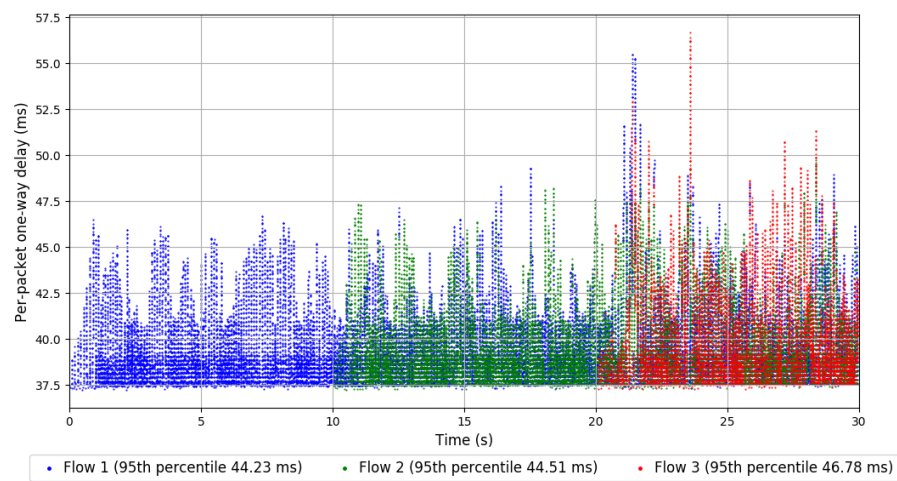
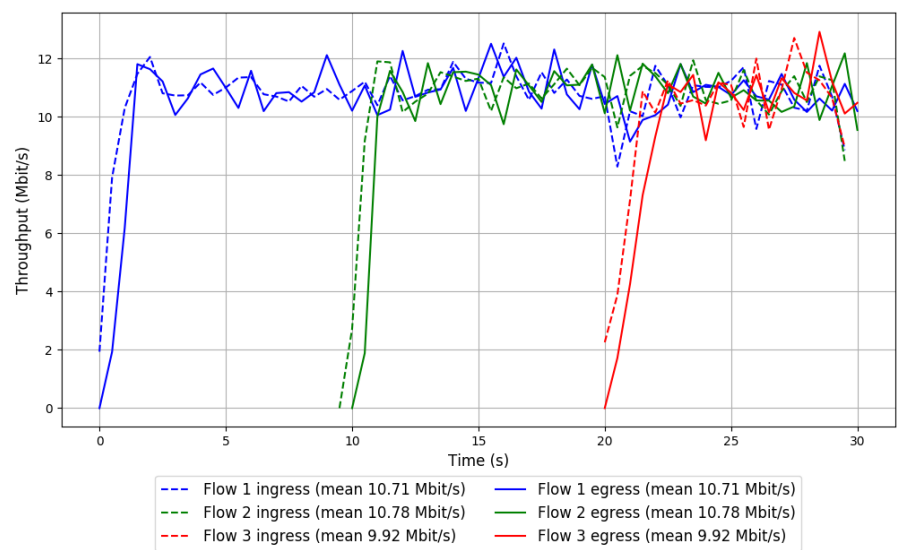
-- Flow 3:

Average throughput: 9.92 Mbit/s

95th percentile per-packet one-way delay: 46.778 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-07-24 14:55:59

End at: 2018-07-24 14:56:29

Local clock offset: 4.77 ms

Remote clock offset: 4.631 ms

Below is generated by plot.py at 2018-07-24 18:32:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 21.23 Mbit/s

95th percentile per-packet one-way delay: 43.145 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 10.85 Mbit/s

95th percentile per-packet one-way delay: 42.825 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 10.65 Mbit/s

95th percentile per-packet one-way delay: 43.394 ms

Loss rate: 0.00%

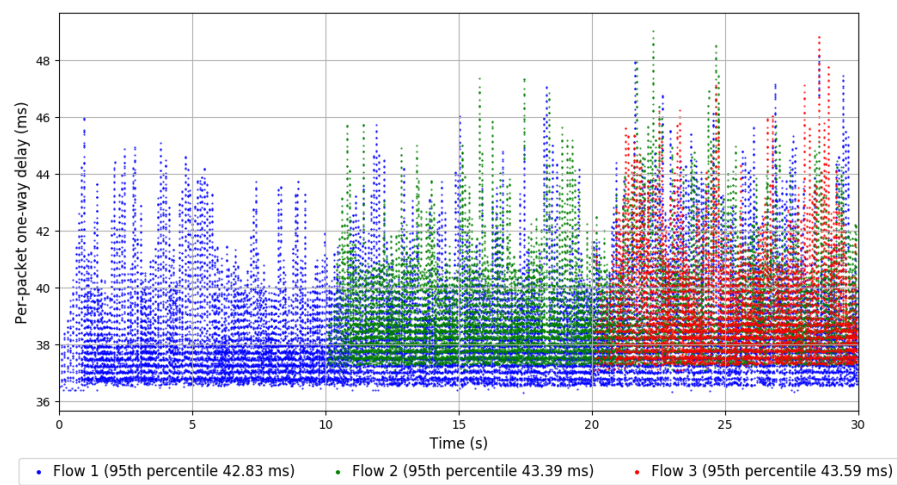
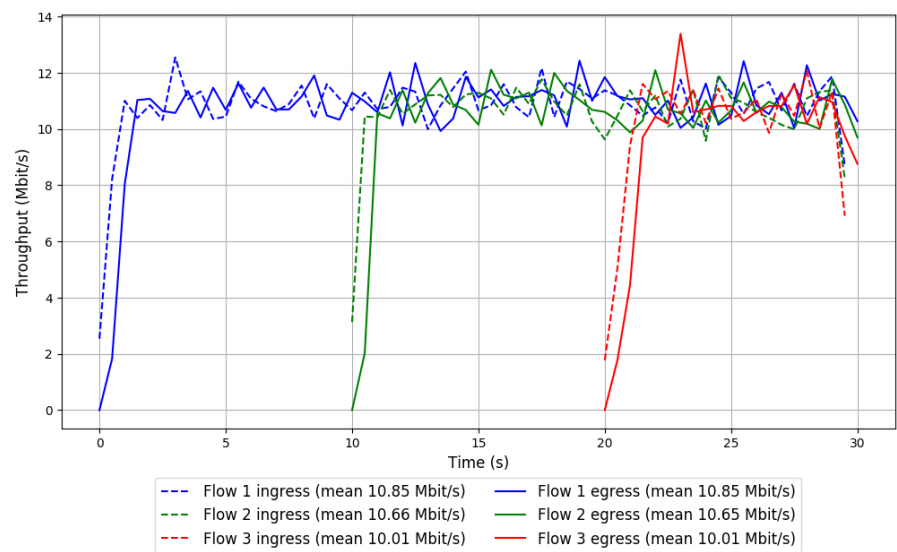
-- Flow 3:

Average throughput: 10.01 Mbit/s

95th percentile per-packet one-way delay: 43.585 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-07-24 15:19:12

End at: 2018-07-24 15:19:42

Local clock offset: 0.882 ms

Remote clock offset: 4.276 ms

Below is generated by plot.py at 2018-07-24 18:32:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 21.36 Mbit/s

95th percentile per-packet one-way delay: 43.839 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 10.81 Mbit/s

95th percentile per-packet one-way delay: 44.047 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 10.66 Mbit/s

95th percentile per-packet one-way delay: 43.570 ms

Loss rate: 0.00%

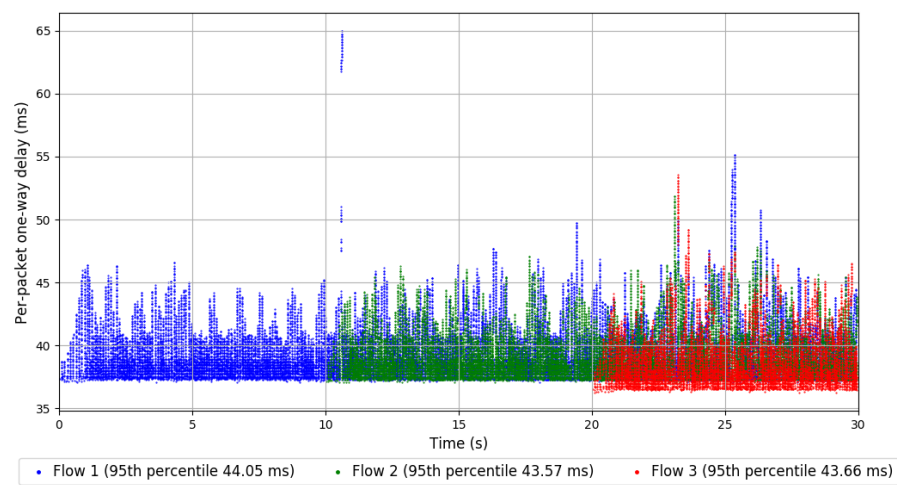
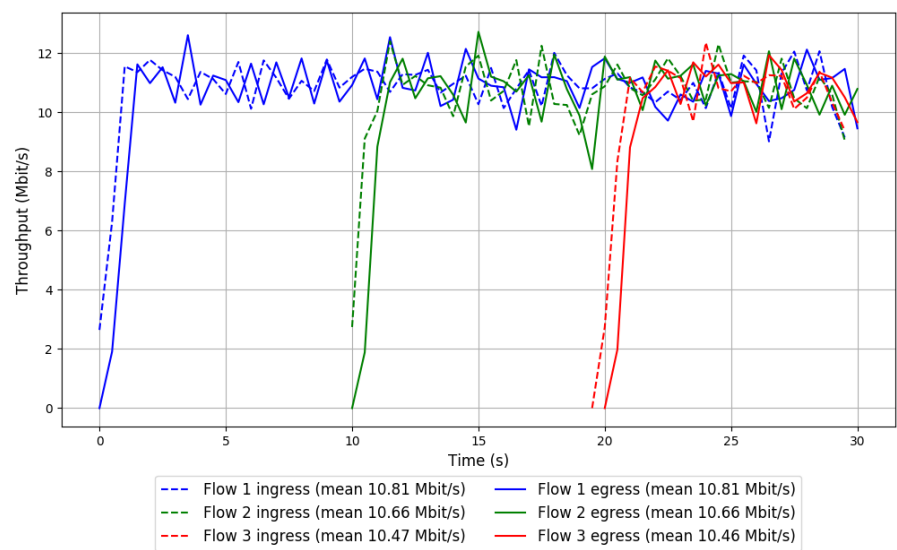
-- Flow 3:

Average throughput: 10.46 Mbit/s

95th percentile per-packet one-way delay: 43.661 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

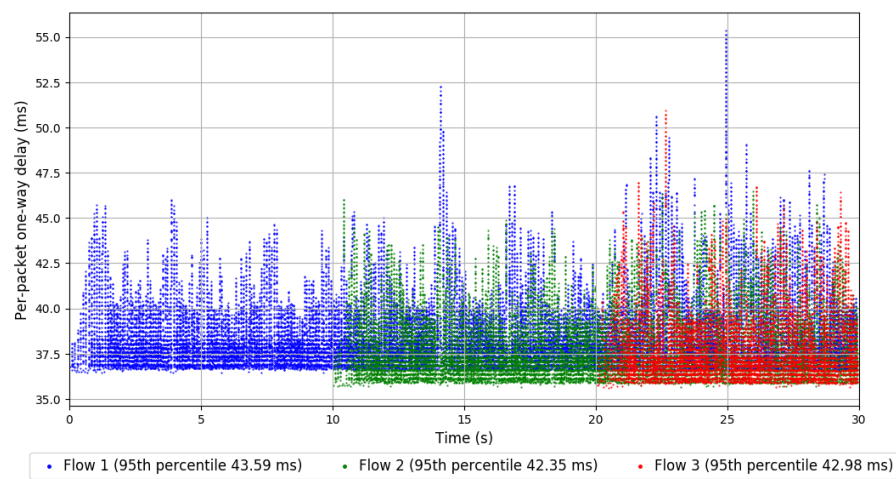
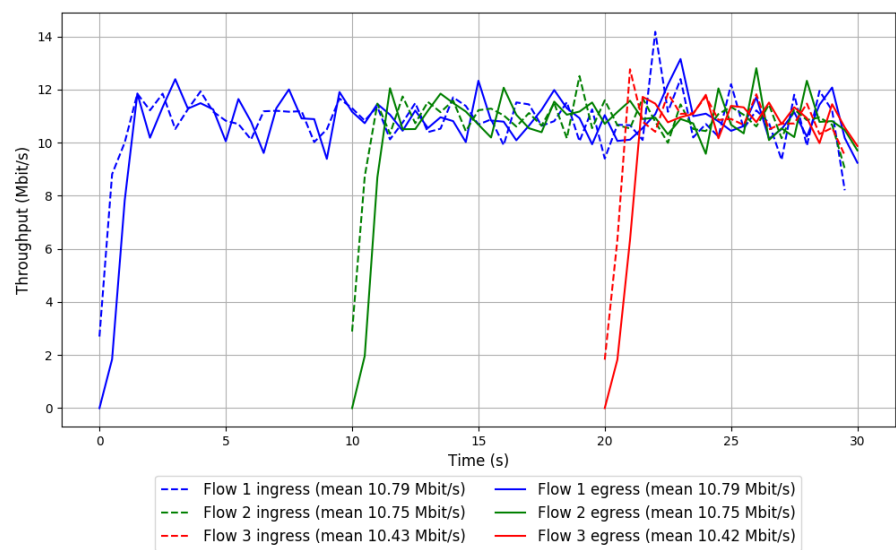


Run 4: Statistics of Sprout

Start at: 2018-07-24 15:42:10
End at: 2018-07-24 15:42:40
Local clock offset: -0.213 ms
Remote clock offset: 3.635 ms

```
# Below is generated by plot.py at 2018-07-24 18:32:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 21.38 Mbit/s
95th percentile per-packet one-way delay: 43.076 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 10.79 Mbit/s
95th percentile per-packet one-way delay: 43.586 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 10.75 Mbit/s
95th percentile per-packet one-way delay: 42.353 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 10.42 Mbit/s
95th percentile per-packet one-way delay: 42.981 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-07-24 16:05:12

End at: 2018-07-24 16:05:42

Local clock offset: -0.081 ms

Remote clock offset: 2.491 ms

Below is generated by plot.py at 2018-07-24 18:32:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 21.44 Mbit/s

95th percentile per-packet one-way delay: 41.268 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 10.90 Mbit/s

95th percentile per-packet one-way delay: 41.178 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 10.68 Mbit/s

95th percentile per-packet one-way delay: 40.891 ms

Loss rate: 0.00%

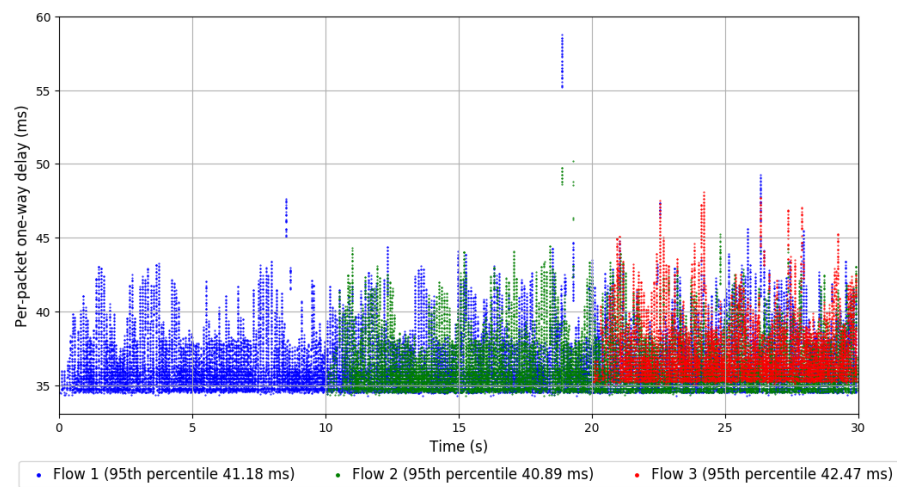
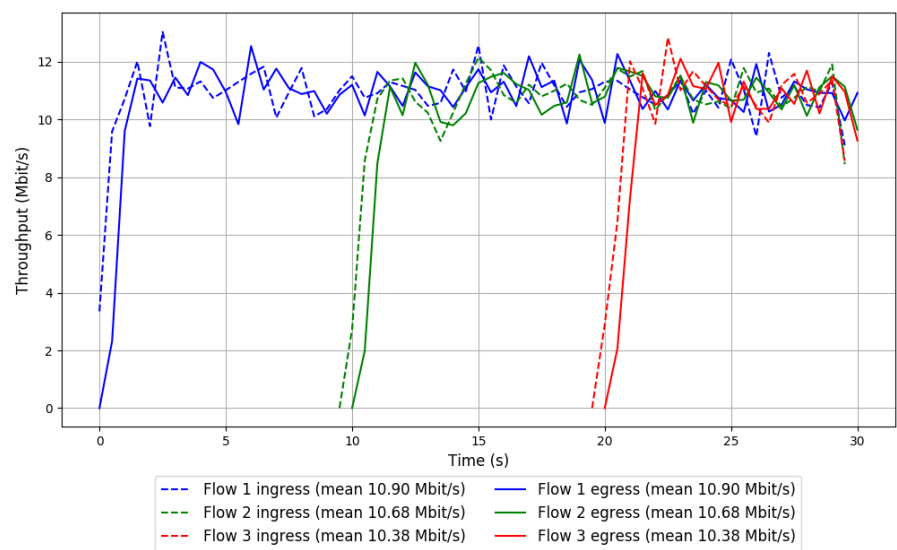
-- Flow 3:

Average throughput: 10.38 Mbit/s

95th percentile per-packet one-way delay: 42.470 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-07-24 16:28:08

End at: 2018-07-24 16:28:38

Local clock offset: 0.83 ms

Remote clock offset: 2.568 ms

Below is generated by plot.py at 2018-07-24 18:32:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 21.63 Mbit/s

95th percentile per-packet one-way delay: 41.438 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 10.90 Mbit/s

95th percentile per-packet one-way delay: 41.003 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 10.92 Mbit/s

95th percentile per-packet one-way delay: 41.601 ms

Loss rate: 0.00%

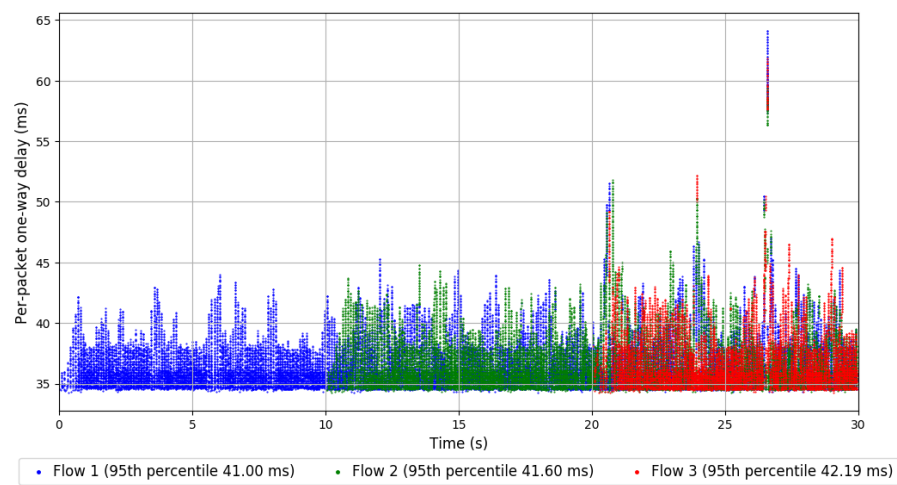
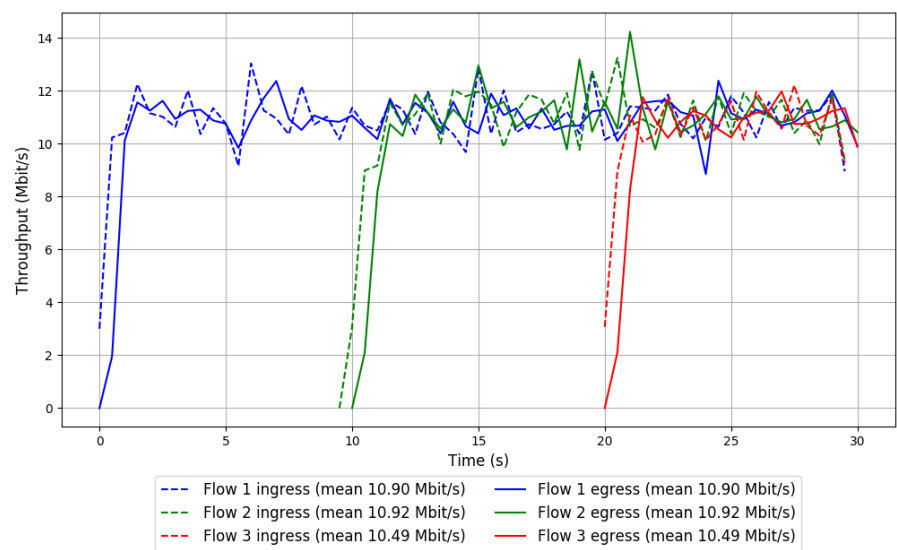
-- Flow 3:

Average throughput: 10.49 Mbit/s

95th percentile per-packet one-way delay: 42.186 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-07-24 16:51:06

End at: 2018-07-24 16:51:36

Local clock offset: 0.944 ms

Remote clock offset: 2.283 ms

Below is generated by plot.py at 2018-07-24 18:32:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 21.32 Mbit/s

95th percentile per-packet one-way delay: 41.788 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 10.76 Mbit/s

95th percentile per-packet one-way delay: 41.943 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 10.71 Mbit/s

95th percentile per-packet one-way delay: 41.785 ms

Loss rate: 0.00%

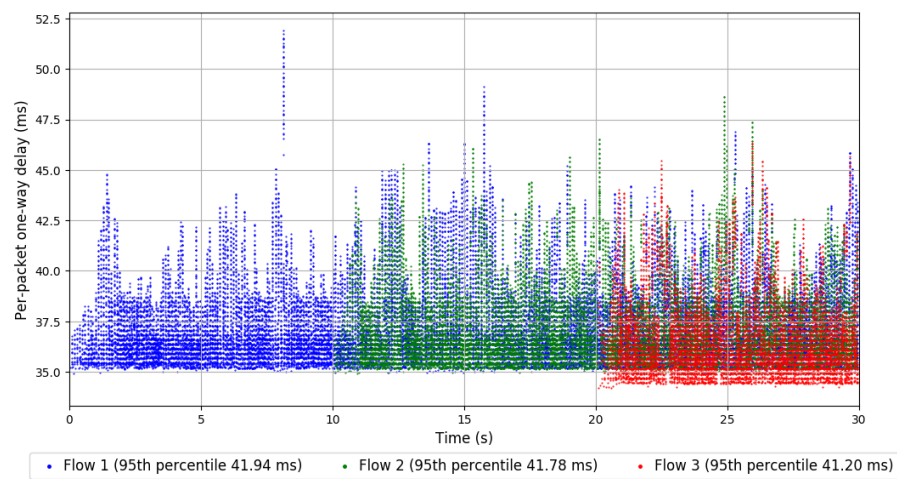
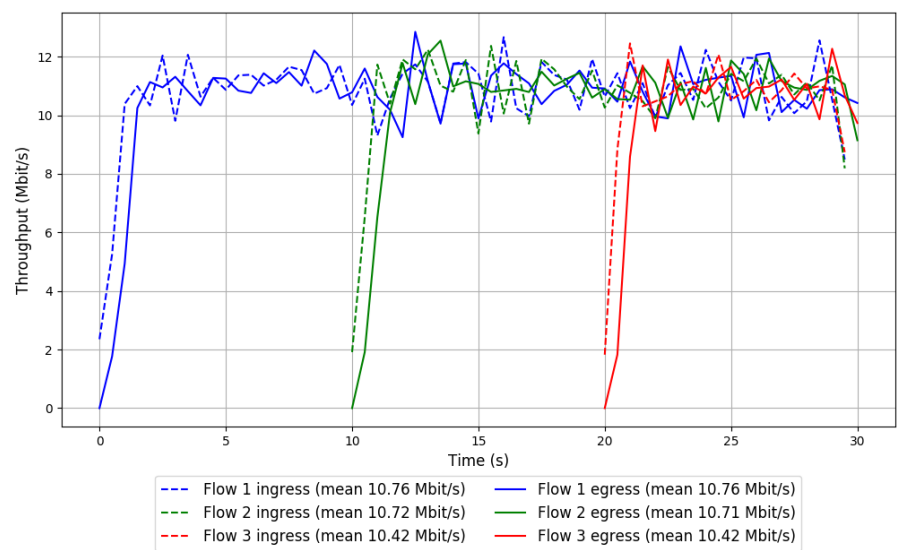
-- Flow 3:

Average throughput: 10.42 Mbit/s

95th percentile per-packet one-way delay: 41.205 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-07-24 17:14:03

End at: 2018-07-24 17:14:33

Local clock offset: 0.534 ms

Remote clock offset: 2.007 ms

Below is generated by plot.py at 2018-07-24 18:32:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 21.64 Mbit/s

95th percentile per-packet one-way delay: 40.891 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 10.95 Mbit/s

95th percentile per-packet one-way delay: 40.668 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 10.70 Mbit/s

95th percentile per-packet one-way delay: 40.879 ms

Loss rate: 0.00%

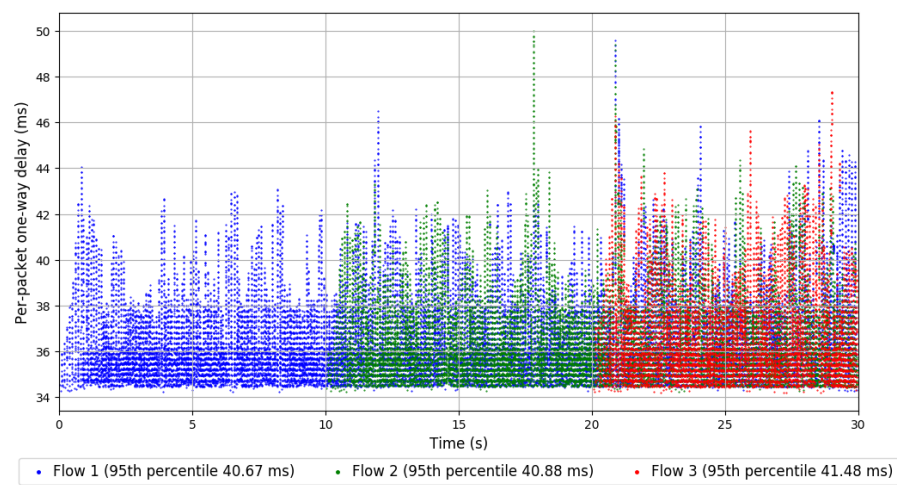
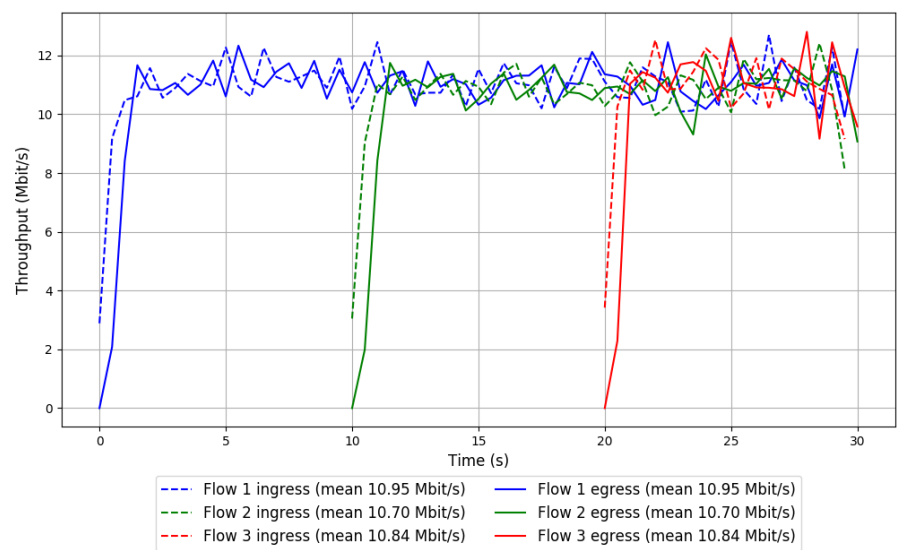
-- Flow 3:

Average throughput: 10.84 Mbit/s

95th percentile per-packet one-way delay: 41.479 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-07-24 17:36:57

End at: 2018-07-24 17:37:27

Local clock offset: 1.66 ms

Remote clock offset: 1.692 ms

Below is generated by plot.py at 2018-07-24 18:32:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 21.18 Mbit/s

95th percentile per-packet one-way delay: 41.845 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 10.86 Mbit/s

95th percentile per-packet one-way delay: 41.297 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 10.53 Mbit/s

95th percentile per-packet one-way delay: 42.347 ms

Loss rate: 0.00%

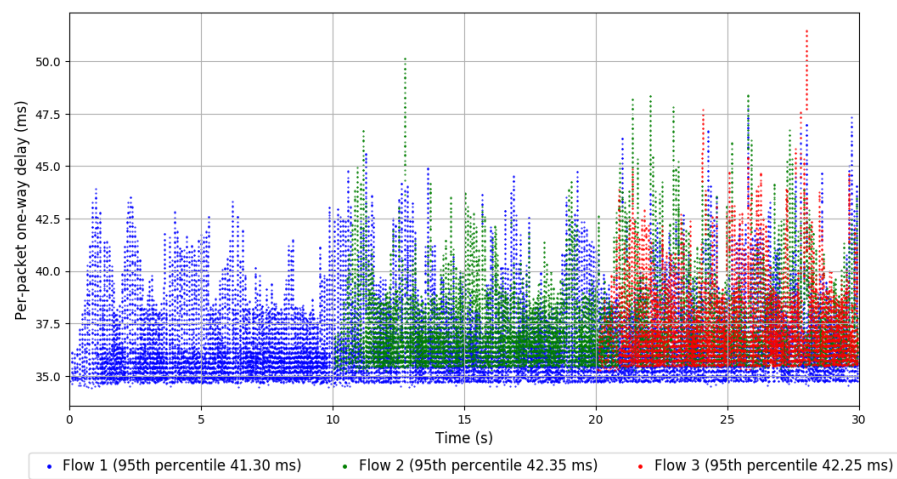
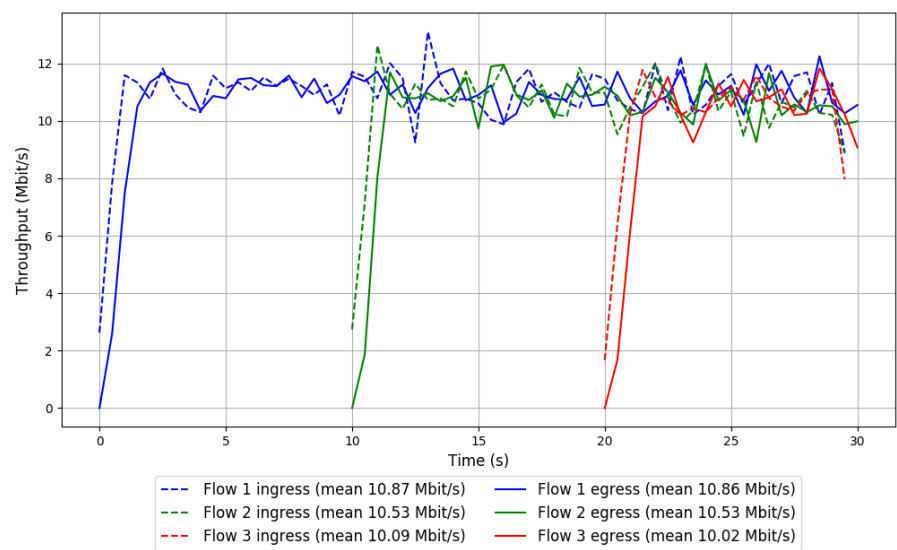
-- Flow 3:

Average throughput: 10.02 Mbit/s

95th percentile per-packet one-way delay: 42.250 ms

Loss rate: 0.67%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-07-24 17:59:55

End at: 2018-07-24 18:00:25

Local clock offset: 4.136 ms

Remote clock offset: 1.802 ms

Below is generated by plot.py at 2018-07-24 18:32:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 21.40 Mbit/s

95th percentile per-packet one-way delay: 41.737 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 10.85 Mbit/s

95th percentile per-packet one-way delay: 42.039 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 10.71 Mbit/s

95th percentile per-packet one-way delay: 41.298 ms

Loss rate: 0.00%

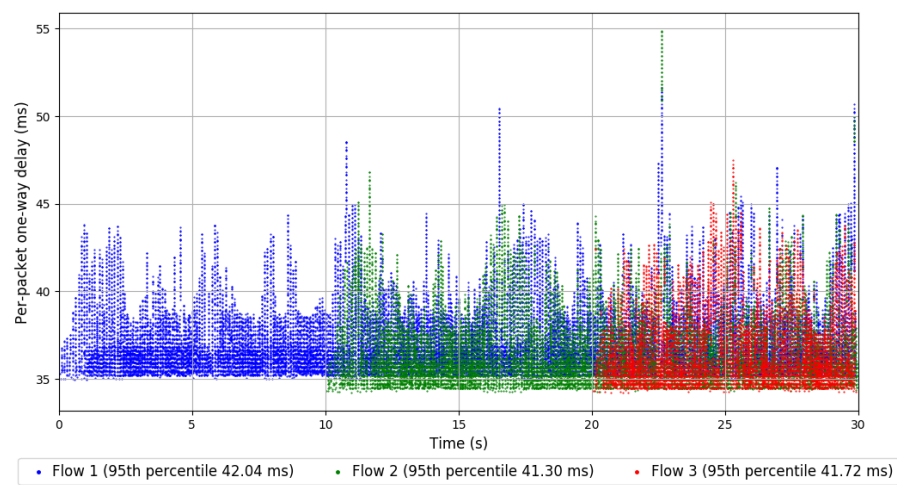
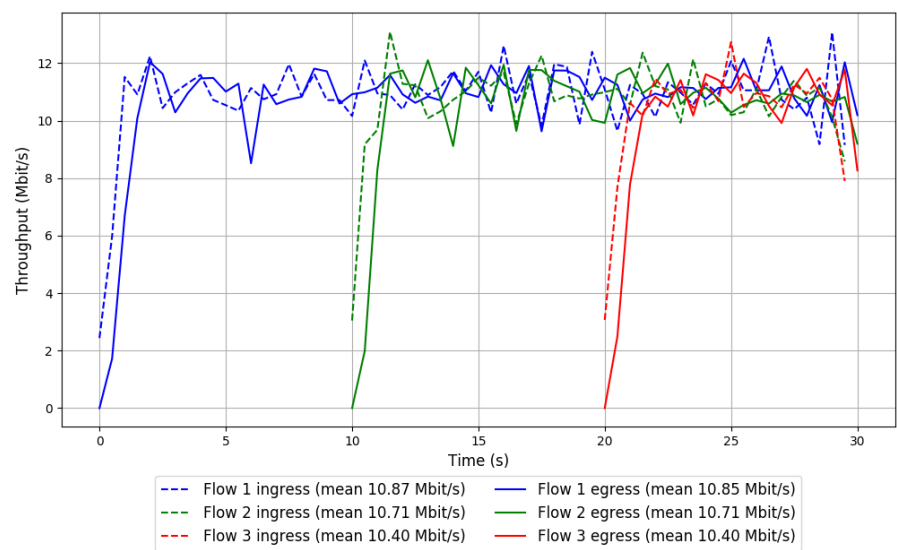
-- Flow 3:

Average throughput: 10.40 Mbit/s

95th percentile per-packet one-way delay: 41.717 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

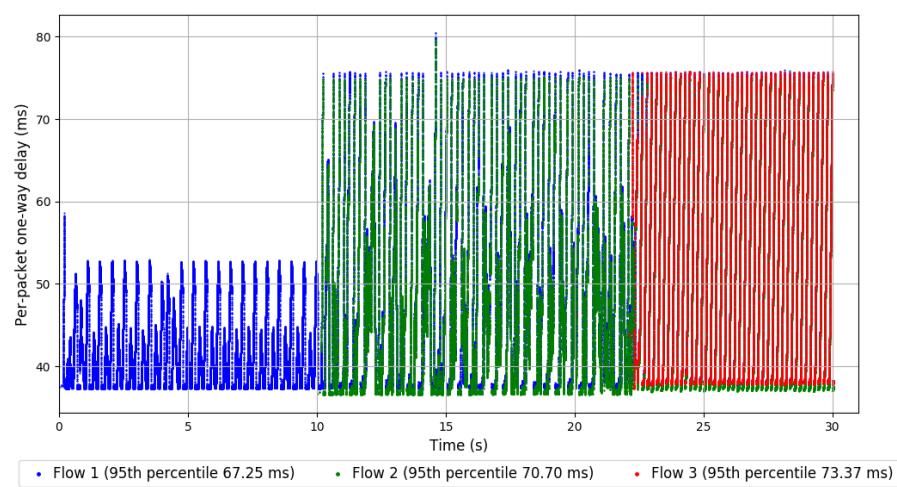
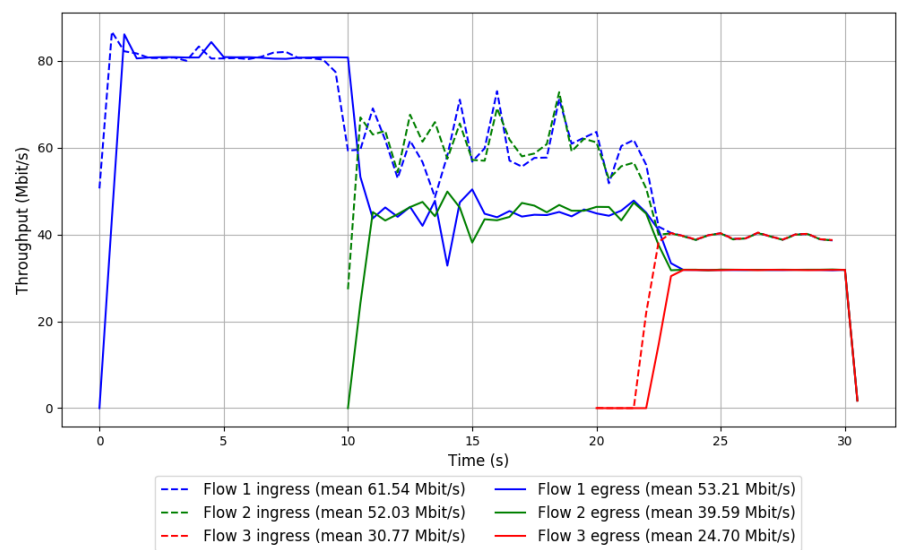


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-07-24 14:43:53
End at: 2018-07-24 14:44:23
Local clock offset: 3.632 ms
Remote clock offset: 4.388 ms

# Below is generated by plot.py at 2018-07-24 18:34:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.79 Mbit/s
95th percentile per-packet one-way delay: 69.723 ms
Loss rate: 17.51%
-- Flow 1:
Average throughput: 53.21 Mbit/s
95th percentile per-packet one-way delay: 67.253 ms
Loss rate: 13.53%
-- Flow 2:
Average throughput: 39.59 Mbit/s
95th percentile per-packet one-way delay: 70.696 ms
Loss rate: 23.90%
-- Flow 3:
Average throughput: 24.70 Mbit/s
95th percentile per-packet one-way delay: 73.366 ms
Loss rate: 19.80%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-07-24 15:07:03

End at: 2018-07-24 15:07:33

Local clock offset: 3.048 ms

Remote clock offset: 4.422 ms

Below is generated by plot.py at 2018-07-24 18:34:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.83 Mbit/s

95th percentile per-packet one-way delay: 69.571 ms

Loss rate: 17.47%

-- Flow 1:

Average throughput: 48.83 Mbit/s

95th percentile per-packet one-way delay: 66.655 ms

Loss rate: 12.73%

-- Flow 2:

Average throughput: 39.63 Mbit/s

95th percentile per-packet one-way delay: 70.954 ms

Loss rate: 23.47%

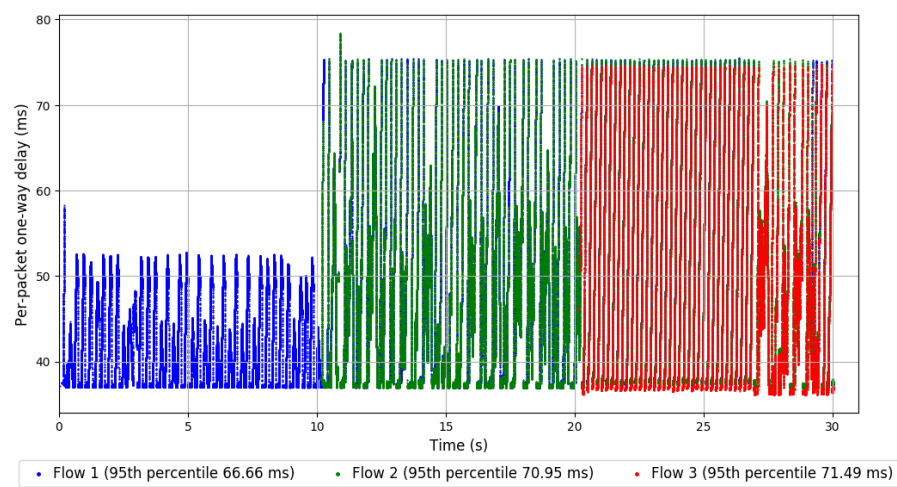
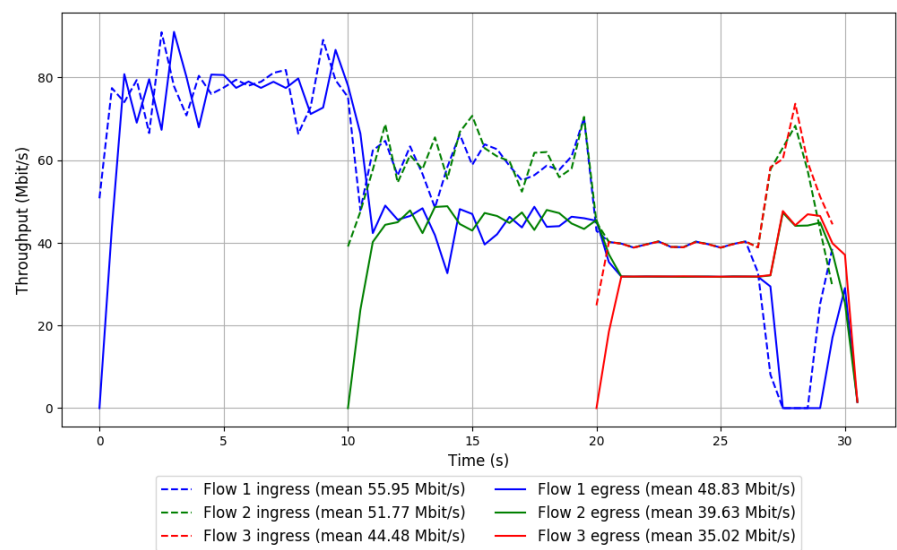
-- Flow 3:

Average throughput: 35.02 Mbit/s

95th percentile per-packet one-way delay: 71.487 ms

Loss rate: 21.41%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-07-24 15:30:01

End at: 2018-07-24 15:30:31

Local clock offset: 0.221 ms

Remote clock offset: 1.923 ms

Below is generated by plot.py at 2018-07-24 18:34:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.63 Mbit/s

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

Loss rate: 16.23%

-- Flow 1:

Average throughput: 52.72 Mbit/s

95th percentile per-packet one-way delay: 64.936 ms

Loss rate: 12.28%

-- Flow 2:

Average throughput: 38.07 Mbit/s

95th percentile per-packet one-way delay: 68.419 ms

Loss rate: 22.53%

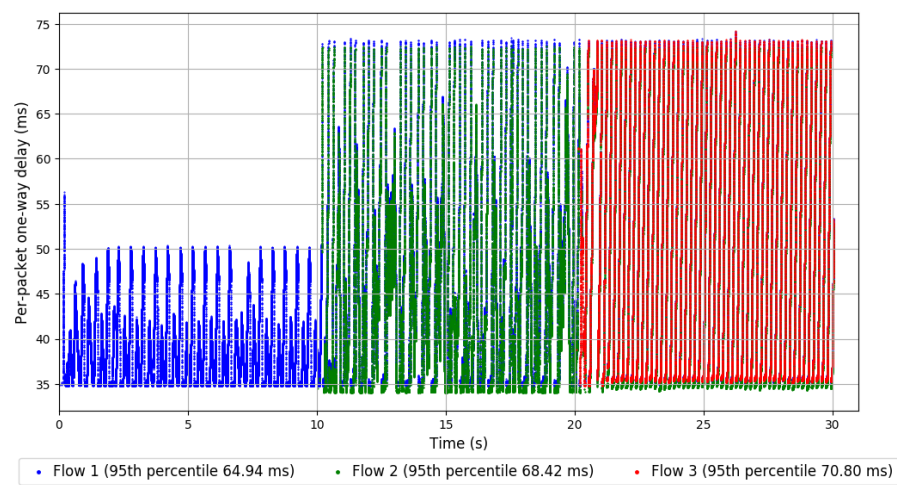
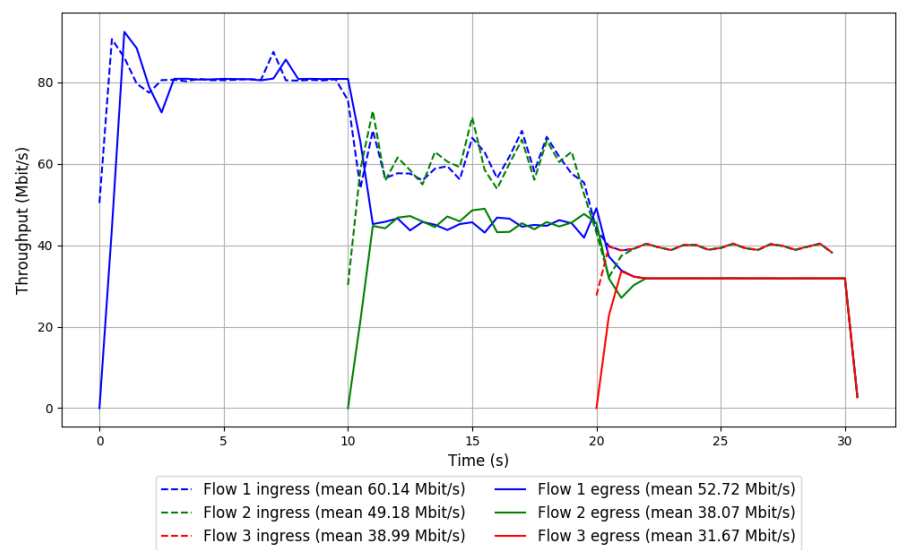
-- Flow 3:

Average throughput: 31.67 Mbit/s

95th percentile per-packet one-way delay: 70.802 ms

Loss rate: 18.68%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-07-24 15:53:08

End at: 2018-07-24 15:53:38

Local clock offset: -0.357 ms

Remote clock offset: 4.414 ms

Below is generated by plot.py at 2018-07-24 18:34:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.66 Mbit/s

95th percentile per-packet one-way delay: 70.241 ms

Loss rate: 17.29%

-- Flow 1:

Average throughput: 53.29 Mbit/s

95th percentile per-packet one-way delay: 68.007 ms

Loss rate: 13.32%

-- Flow 2:

Average throughput: 39.82 Mbit/s

95th percentile per-packet one-way delay: 71.078 ms

Loss rate: 23.61%

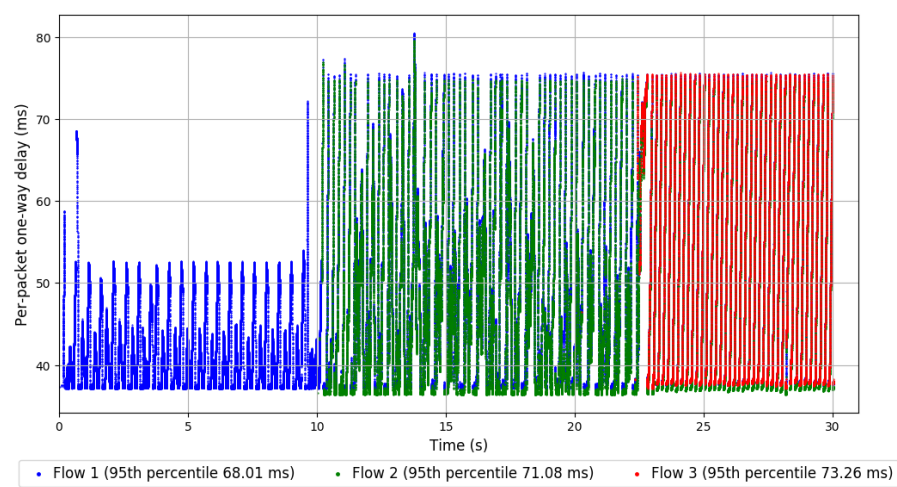
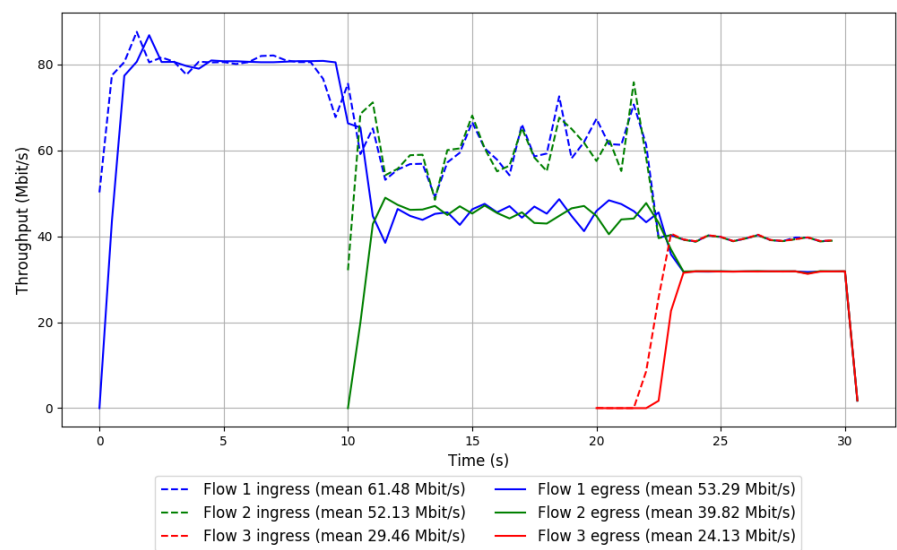
-- Flow 3:

Average throughput: 24.13 Mbit/s

95th percentile per-packet one-way delay: 73.262 ms

Loss rate: 19.82%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-07-24 16:15:59

End at: 2018-07-24 16:16:29

Local clock offset: 0.623 ms

Remote clock offset: 2.557 ms

Below is generated by plot.py at 2018-07-24 18:34:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.45 Mbit/s

95th percentile per-packet one-way delay: 68.557 ms

Loss rate: 16.58%

-- Flow 1:

Average throughput: 50.43 Mbit/s

95th percentile per-packet one-way delay: 66.144 ms

Loss rate: 12.75%

-- Flow 2:

Average throughput: 38.45 Mbit/s

95th percentile per-packet one-way delay: 69.574 ms

Loss rate: 22.29%

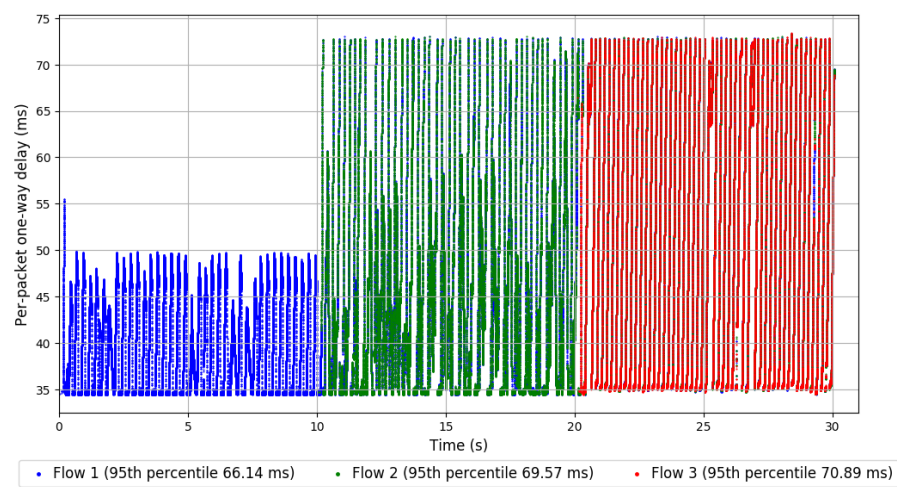
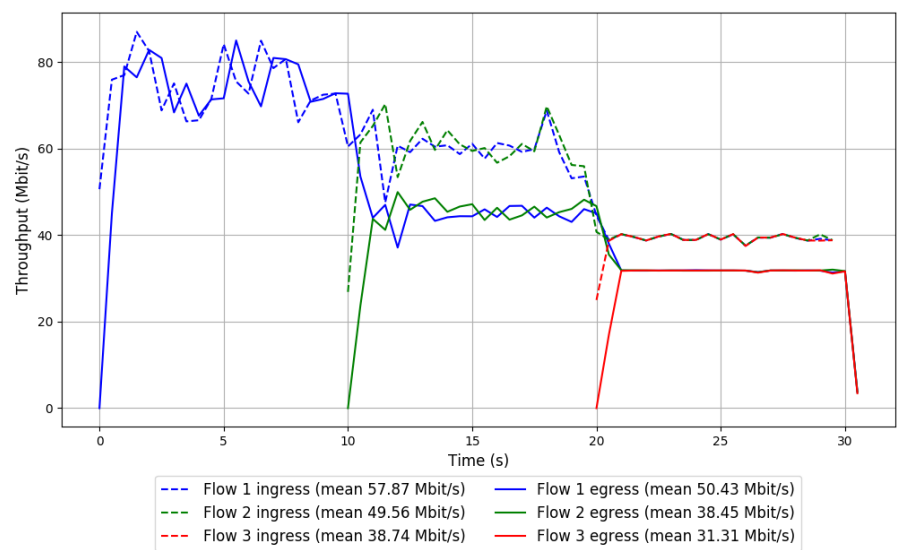
-- Flow 3:

Average throughput: 31.31 Mbit/s

95th percentile per-packet one-way delay: 70.885 ms

Loss rate: 19.19%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-07-24 16:38:58

End at: 2018-07-24 16:39:28

Local clock offset: 0.897 ms

Remote clock offset: 2.758 ms

Below is generated by plot.py at 2018-07-24 18:34:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.08 Mbit/s

95th percentile per-packet one-way delay: 68.104 ms

Loss rate: 16.21%

-- Flow 1:

Average throughput: 51.85 Mbit/s

95th percentile per-packet one-way delay: 66.119 ms

Loss rate: 12.37%

-- Flow 2:

Average throughput: 38.40 Mbit/s

95th percentile per-packet one-way delay: 68.937 ms

Loss rate: 22.30%

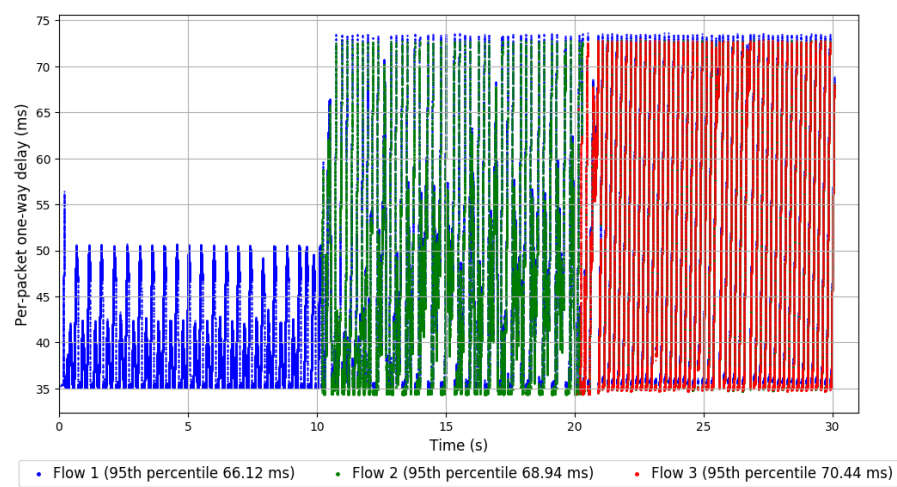
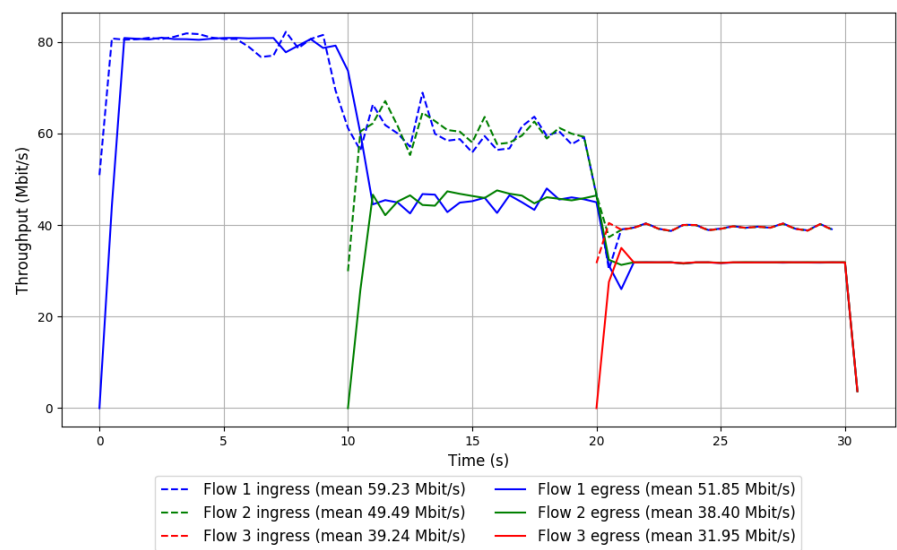
-- Flow 3:

Average throughput: 31.95 Mbit/s

95th percentile per-packet one-way delay: 70.442 ms

Loss rate: 18.30%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-07-24 17:01:57

End at: 2018-07-24 17:02:27

Local clock offset: 0.902 ms

Remote clock offset: 1.958 ms

Below is generated by plot.py at 2018-07-24 18:34:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.39 Mbit/s

95th percentile per-packet one-way delay: 68.243 ms

Loss rate: 16.18%

-- Flow 1:

Average throughput: 52.63 Mbit/s

95th percentile per-packet one-way delay: 64.979 ms

Loss rate: 12.07%

-- Flow 2:

Average throughput: 38.18 Mbit/s

95th percentile per-packet one-way delay: 69.808 ms

Loss rate: 22.26%

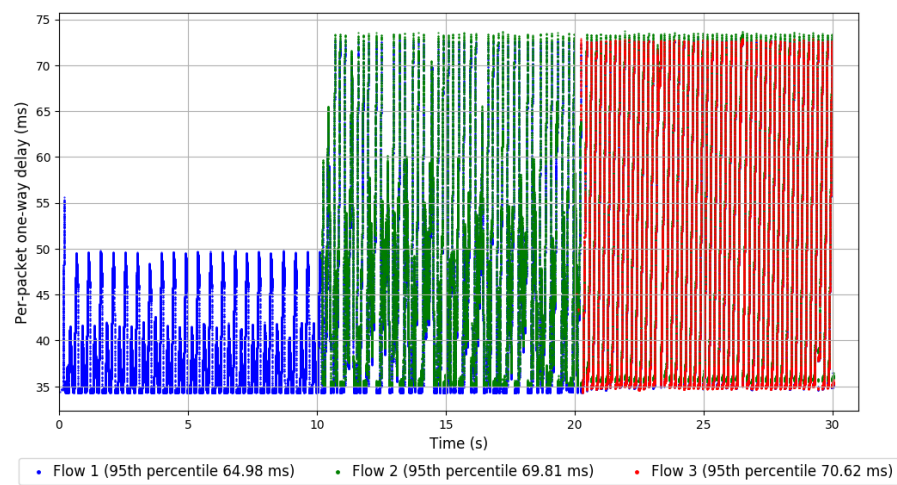
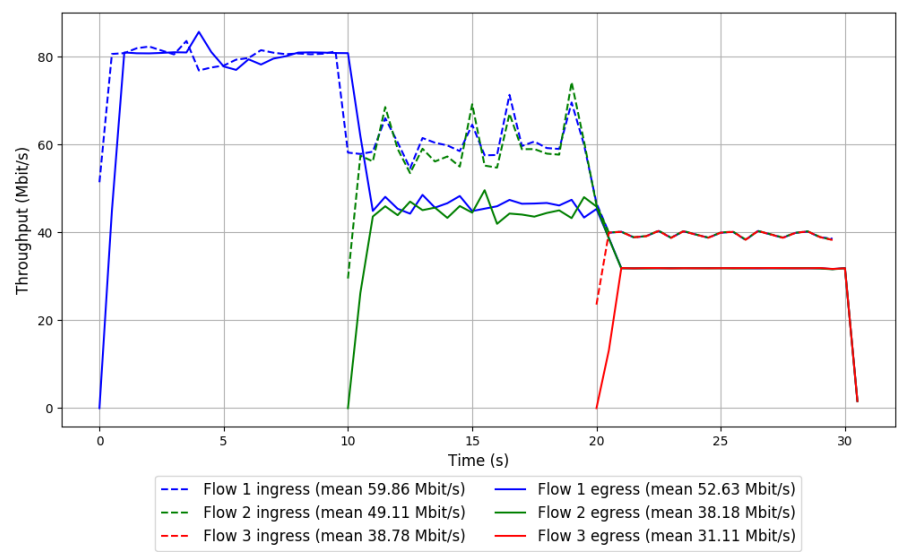
-- Flow 3:

Average throughput: 31.11 Mbit/s

95th percentile per-packet one-way delay: 70.624 ms

Loss rate: 19.84%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-07-24 17:24:52

End at: 2018-07-24 17:25:22

Local clock offset: 0.19 ms

Remote clock offset: 1.842 ms

Below is generated by plot.py at 2018-07-24 18:34:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.08 Mbit/s

95th percentile per-packet one-way delay: 68.480 ms

Loss rate: 16.20%

-- Flow 1:

Average throughput: 52.31 Mbit/s

95th percentile per-packet one-way delay: 65.272 ms

Loss rate: 12.17%

-- Flow 2:

Average throughput: 38.03 Mbit/s

95th percentile per-packet one-way delay: 69.905 ms

Loss rate: 22.32%

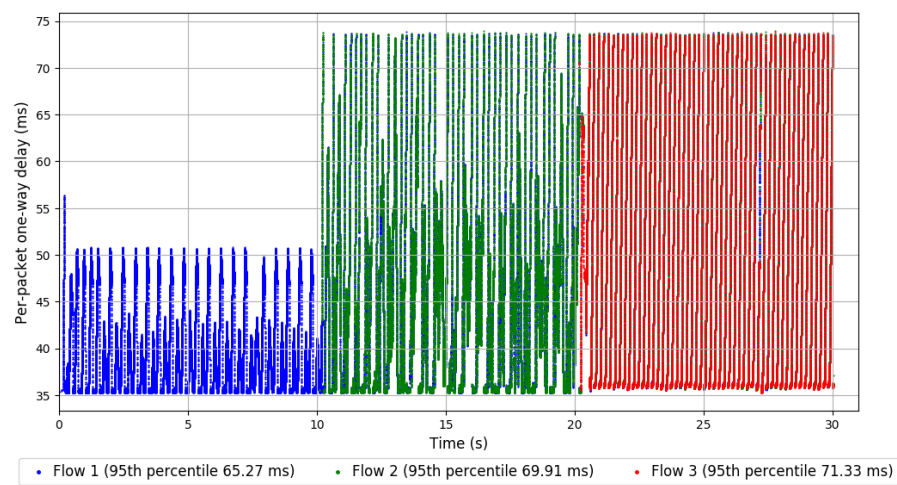
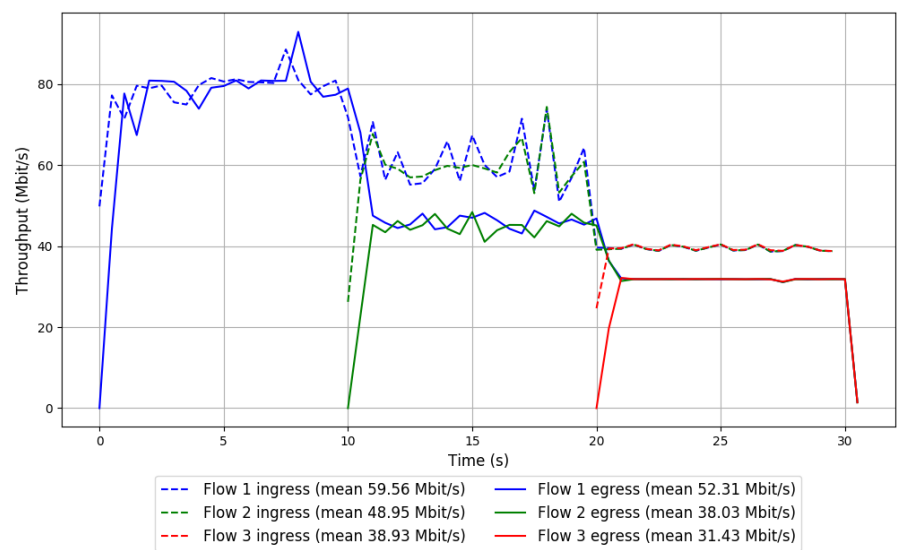
-- Flow 3:

Average throughput: 31.43 Mbit/s

95th percentile per-packet one-way delay: 71.328 ms

Loss rate: 19.33%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-07-24 17:47:44

End at: 2018-07-24 17:48:14

Local clock offset: 3.327 ms

Remote clock offset: 1.744 ms

Below is generated by plot.py at 2018-07-24 18:36:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.27 Mbit/s

95th percentile per-packet one-way delay: 68.409 ms

Loss rate: 16.43%

-- Flow 1:

Average throughput: 52.23 Mbit/s

95th percentile per-packet one-way delay: 66.191 ms

Loss rate: 12.44%

-- Flow 2:

Average throughput: 38.61 Mbit/s

95th percentile per-packet one-way delay: 69.204 ms

Loss rate: 22.26%

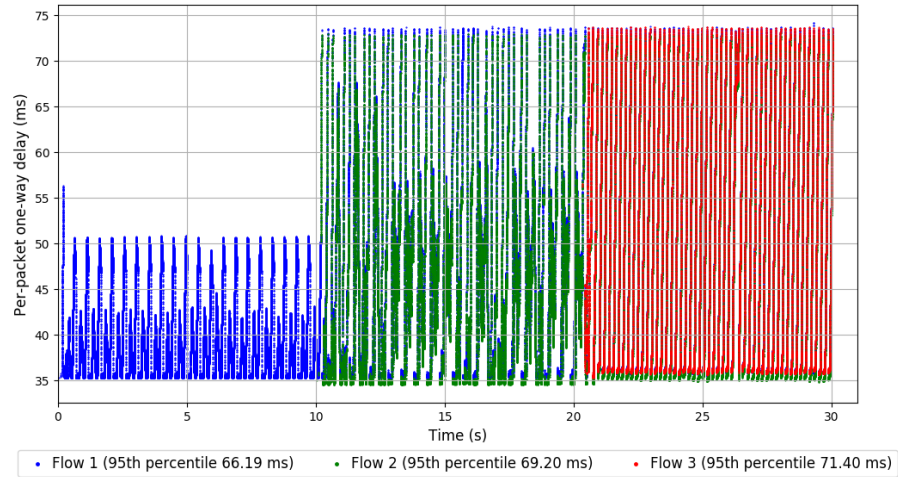
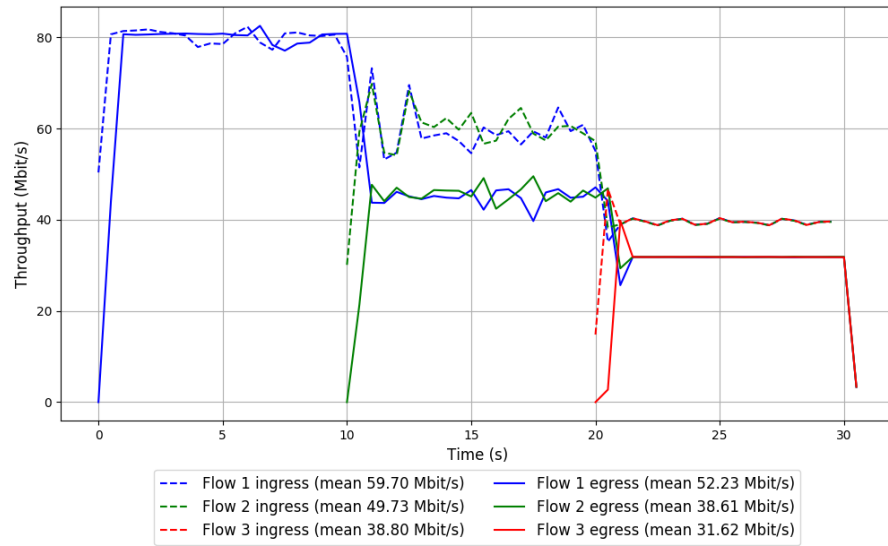
-- Flow 3:

Average throughput: 31.62 Mbit/s

95th percentile per-packet one-way delay: 71.400 ms

Loss rate: 19.97%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-07-24 18:10:46

End at: 2018-07-24 18:11:16

Local clock offset: 1.53 ms

Remote clock offset: 1.943 ms

Below is generated by plot.py at 2018-07-24 18:36:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.95 Mbit/s

95th percentile per-packet one-way delay: 67.970 ms

Loss rate: 16.31%

-- Flow 1:

Average throughput: 52.41 Mbit/s

95th percentile per-packet one-way delay: 64.924 ms

Loss rate: 12.25%

-- Flow 2:

Average throughput: 38.91 Mbit/s

95th percentile per-packet one-way delay: 69.365 ms

Loss rate: 22.35%

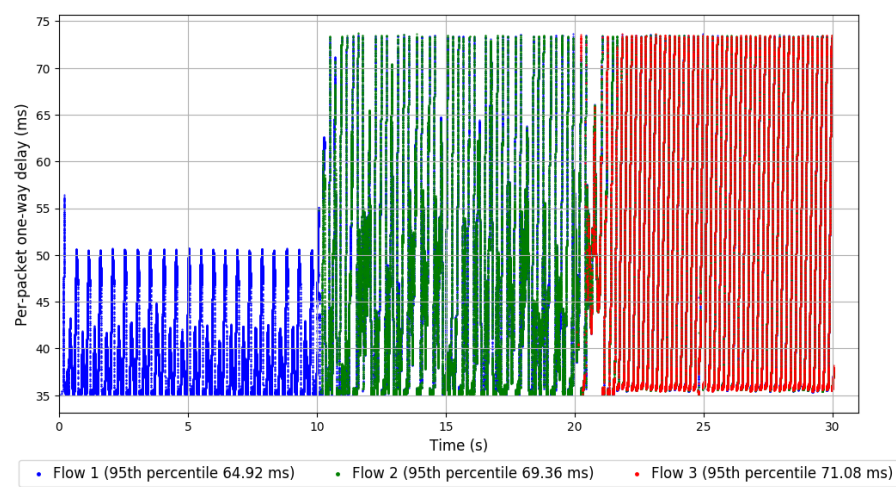
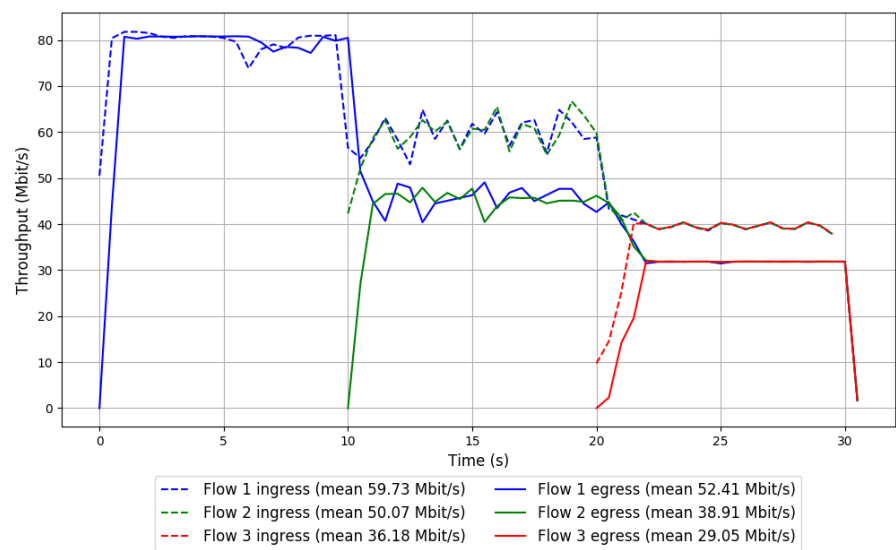
-- Flow 3:

Average throughput: 29.05 Mbit/s

95th percentile per-packet one-way delay: 71.077 ms

Loss rate: 19.74%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-07-24 14:30:16

End at: 2018-07-24 14:30:46

Local clock offset: 0.707 ms

Remote clock offset: 4.303 ms

Below is generated by plot.py at 2018-07-24 18:36:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.38 Mbit/s

95th percentile per-packet one-way delay: 54.117 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 66.84 Mbit/s

95th percentile per-packet one-way delay: 53.874 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 27.93 Mbit/s

95th percentile per-packet one-way delay: 54.645 ms

Loss rate: 0.00%

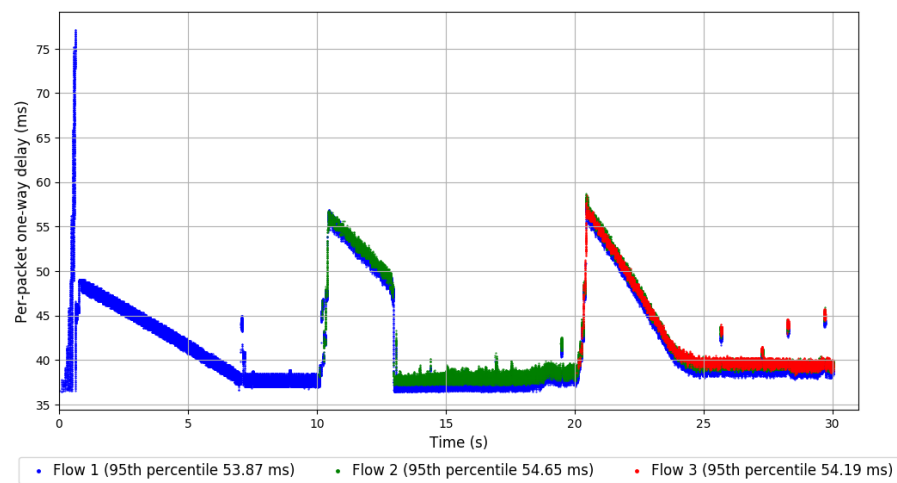
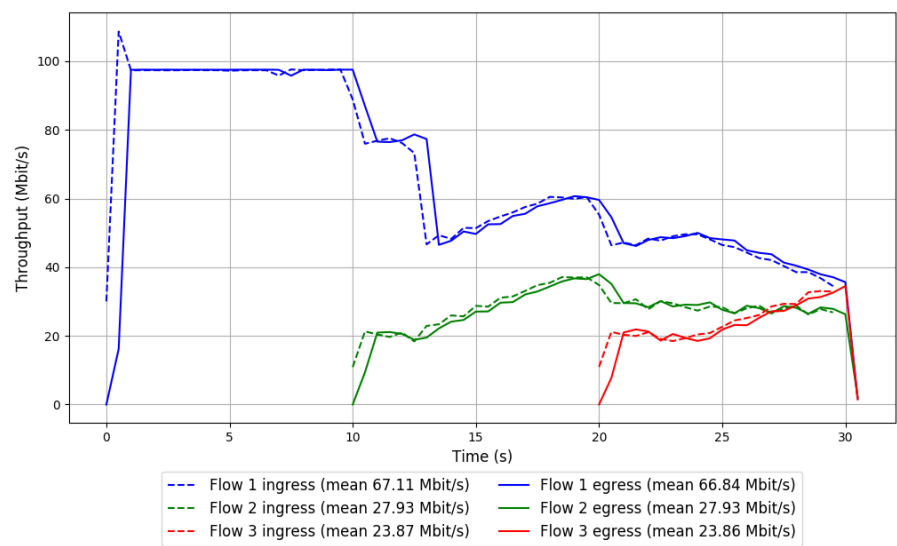
-- Flow 3:

Average throughput: 23.86 Mbit/s

95th percentile per-packet one-way delay: 54.193 ms

Loss rate: 0.03%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-07-24 14:53:16

End at: 2018-07-24 14:53:46

Local clock offset: 4.502 ms

Remote clock offset: 4.56 ms

Below is generated by plot.py at 2018-07-24 18:36:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.99 Mbit/s

95th percentile per-packet one-way delay: 64.286 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 39.87 Mbit/s

95th percentile per-packet one-way delay: 60.613 ms

Loss rate: 1.64%

-- Flow 2:

Average throughput: 47.28 Mbit/s

95th percentile per-packet one-way delay: 64.330 ms

Loss rate: 0.28%

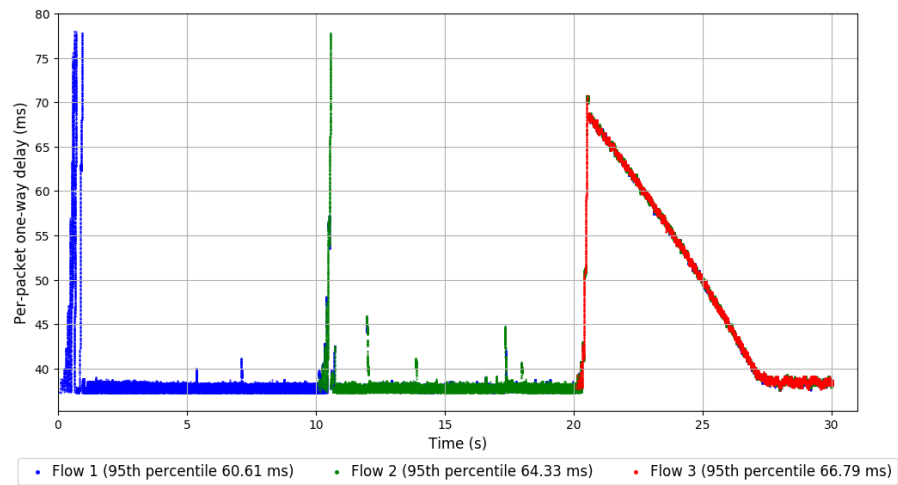
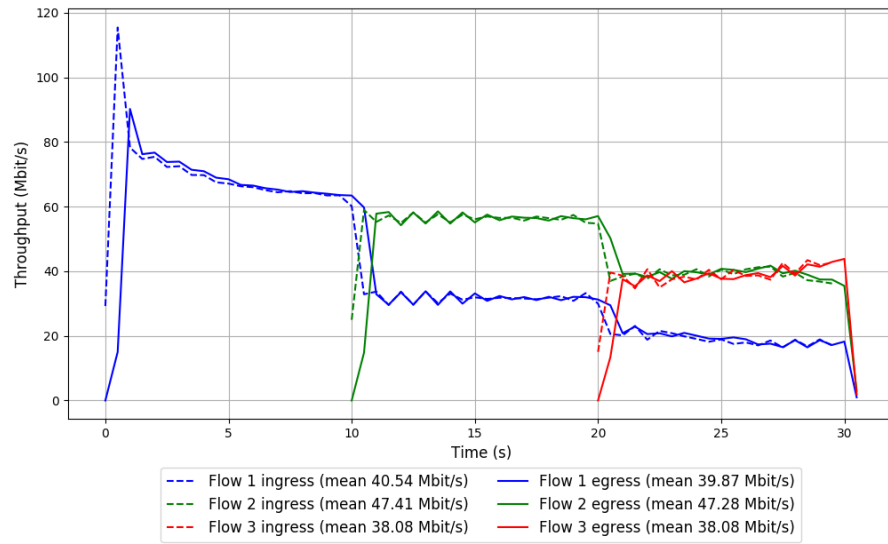
-- Flow 3:

Average throughput: 38.08 Mbit/s

95th percentile per-packet one-way delay: 66.791 ms

Loss rate: 0.01%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-07-24 15:16:29

End at: 2018-07-24 15:16:59

Local clock offset: 1.143 ms

Remote clock offset: 4.28 ms

Below is generated by plot.py at 2018-07-24 18:36:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.00 Mbit/s

95th percentile per-packet one-way delay: 46.220 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 73.15 Mbit/s

95th percentile per-packet one-way delay: 46.436 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 23.17 Mbit/s

95th percentile per-packet one-way delay: 44.941 ms

Loss rate: 0.00%

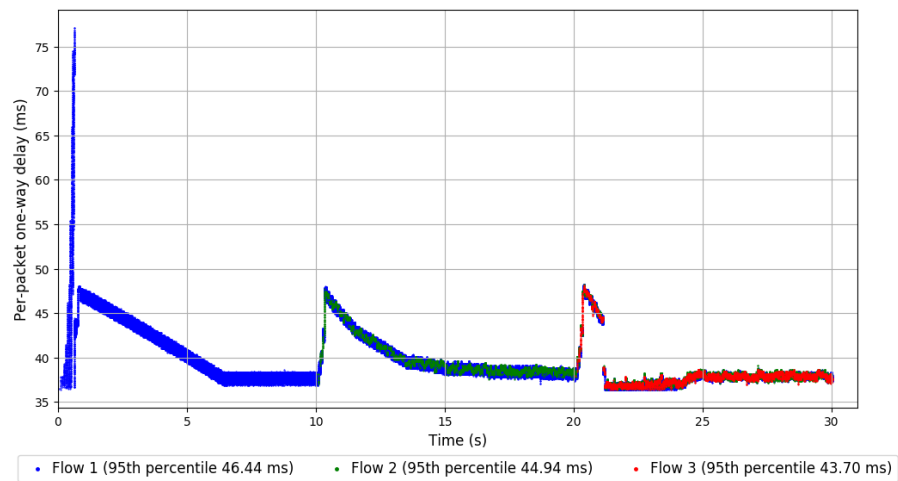
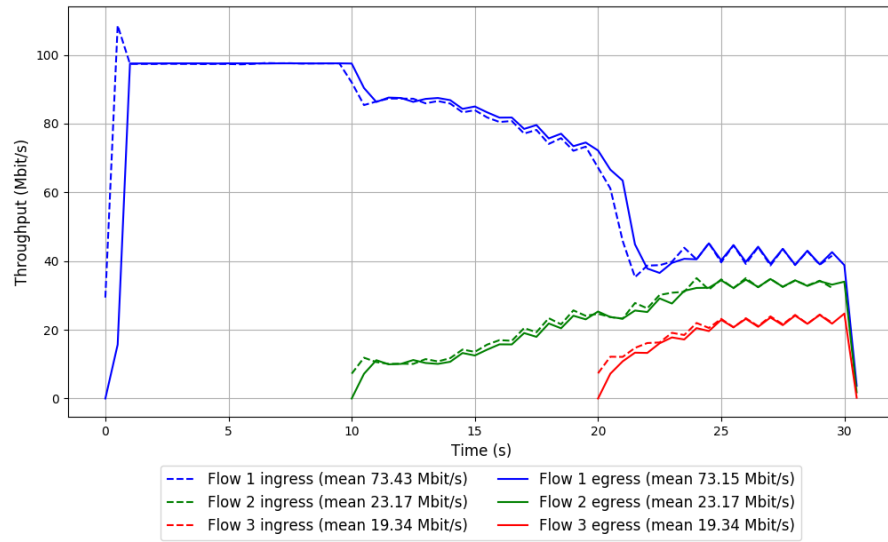
-- Flow 3:

Average throughput: 19.34 Mbit/s

95th percentile per-packet one-way delay: 43.704 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-07-24 15:39:27

End at: 2018-07-24 15:39:57

Local clock offset: -0.039 ms

Remote clock offset: 4.341 ms

Below is generated by plot.py at 2018-07-24 18:36:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.65 Mbit/s

95th percentile per-packet one-way delay: 47.027 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 49.11 Mbit/s

95th percentile per-packet one-way delay: 47.751 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 47.95 Mbit/s

95th percentile per-packet one-way delay: 42.865 ms

Loss rate: 0.48%

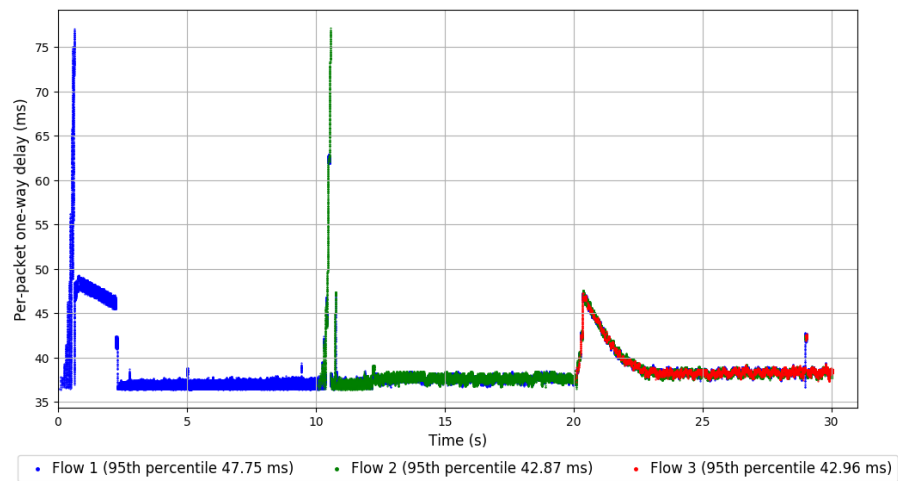
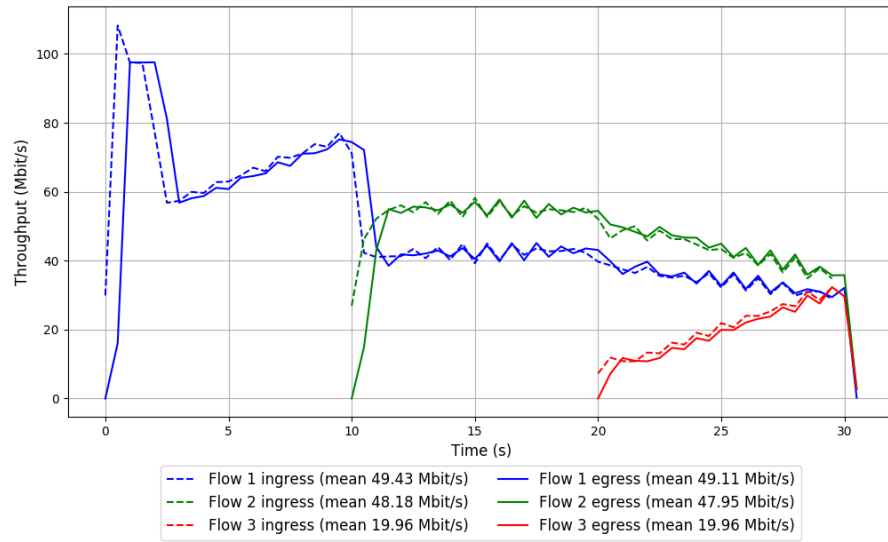
-- Flow 3:

Average throughput: 19.96 Mbit/s

95th percentile per-packet one-way delay: 42.962 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-07-24 16:02:30

End at: 2018-07-24 16:03:00

Local clock offset: -0.43 ms

Remote clock offset: 2.469 ms

Below is generated by plot.py at 2018-07-24 18:36:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.09 Mbit/s

95th percentile per-packet one-way delay: 48.968 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 77.19 Mbit/s

95th percentile per-packet one-way delay: 46.732 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 16.77 Mbit/s

95th percentile per-packet one-way delay: 51.475 ms

Loss rate: 0.00%

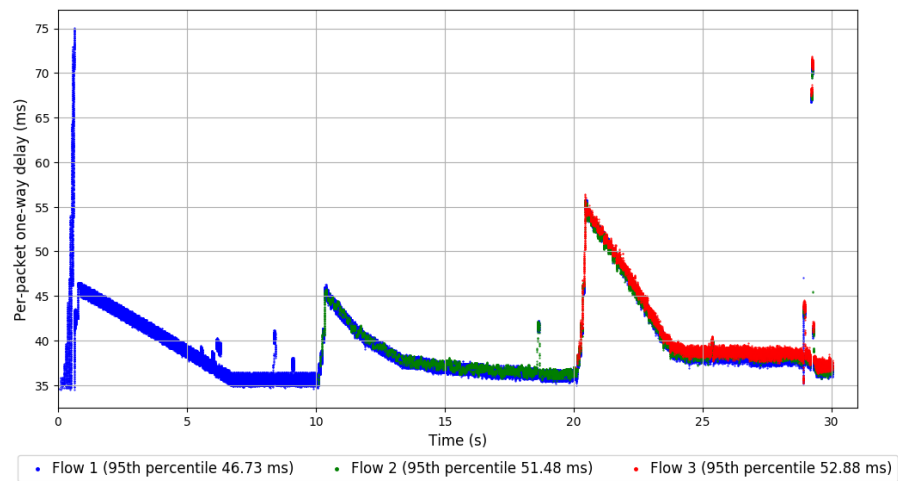
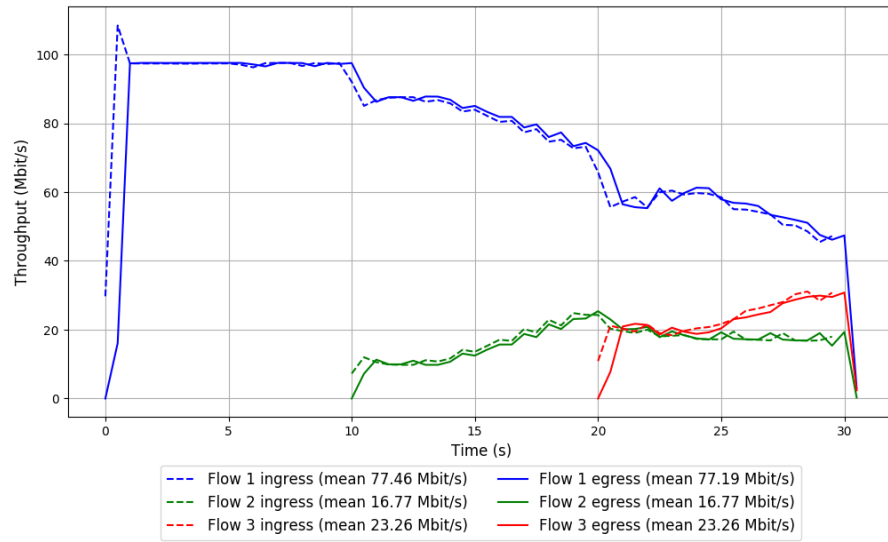
-- Flow 3:

Average throughput: 23.26 Mbit/s

95th percentile per-packet one-way delay: 52.884 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-07-24 16:25:25

End at: 2018-07-24 16:25:55

Local clock offset: 0.874 ms

Remote clock offset: 2.563 ms

Below is generated by plot.py at 2018-07-24 18:36:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.01 Mbit/s

95th percentile per-packet one-way delay: 45.192 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 74.14 Mbit/s

95th percentile per-packet one-way delay: 45.395 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 19.32 Mbit/s

95th percentile per-packet one-way delay: 44.010 ms

Loss rate: 0.01%

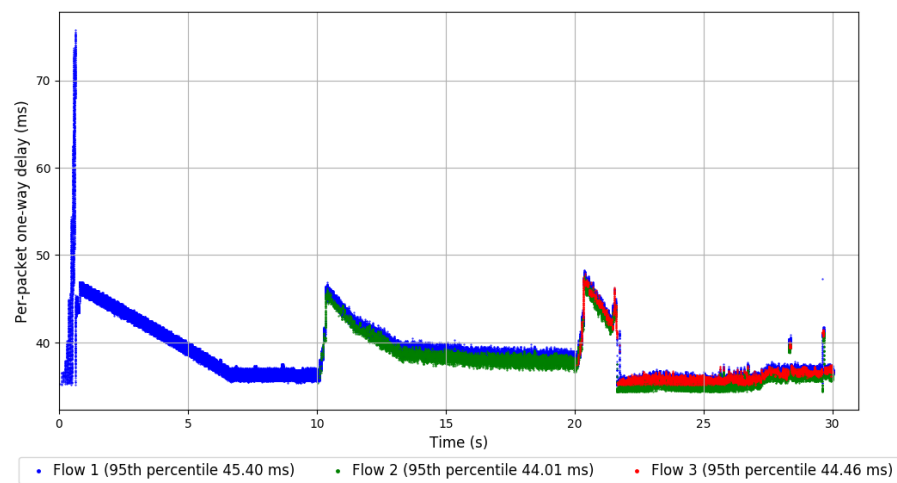
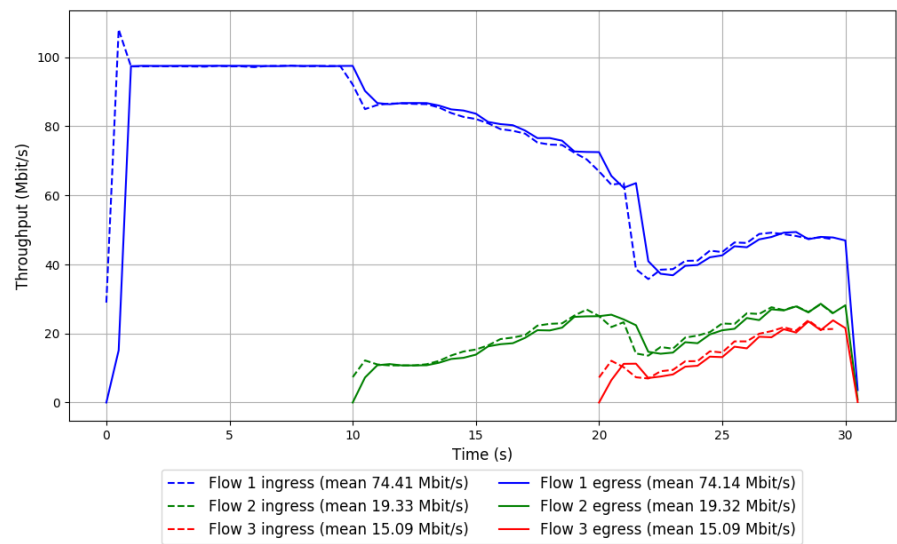
-- Flow 3:

Average throughput: 15.09 Mbit/s

95th percentile per-packet one-way delay: 44.460 ms

Loss rate: 0.04%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-07-24 16:48:24

End at: 2018-07-24 16:48:54

Local clock offset: 0.943 ms

Remote clock offset: 2.47 ms

Below is generated by plot.py at 2018-07-24 18:36:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.95 Mbit/s

95th percentile per-packet one-way delay: 45.495 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 77.08 Mbit/s

95th percentile per-packet one-way delay: 45.695 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 18.84 Mbit/s

95th percentile per-packet one-way delay: 44.535 ms

Loss rate: 0.00%

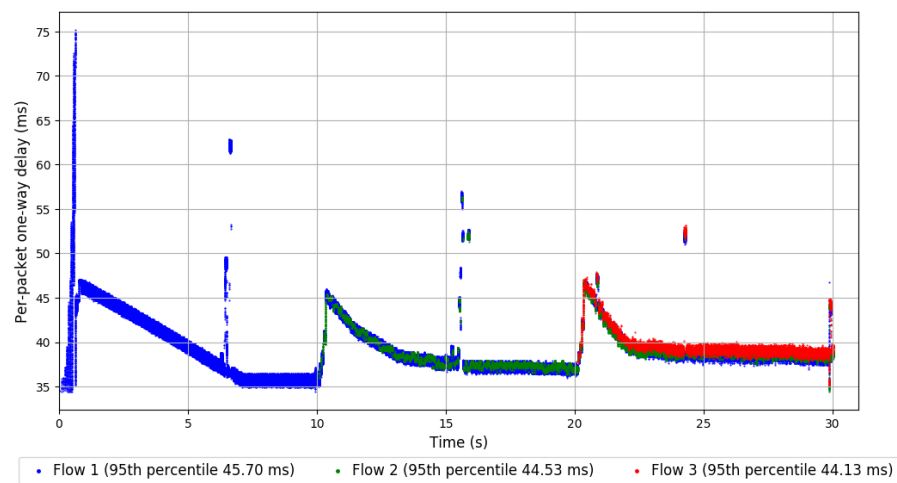
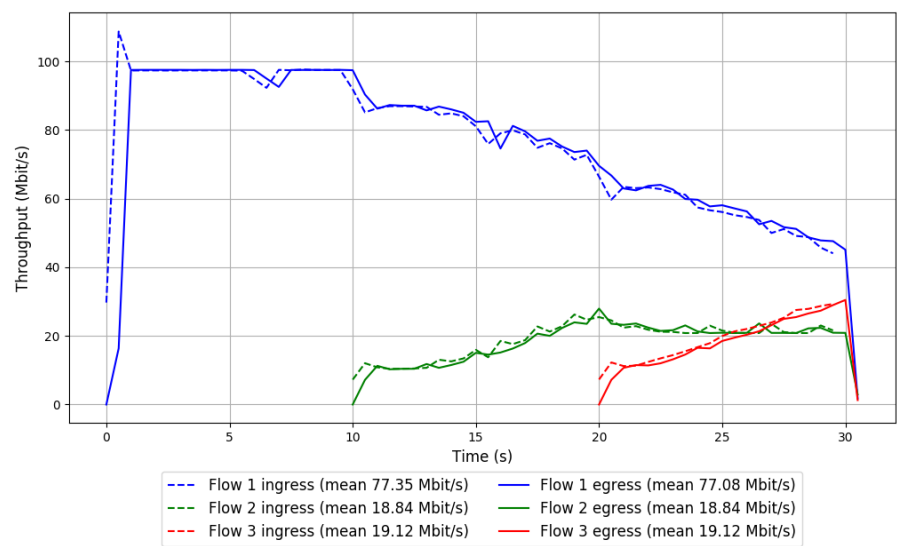
-- Flow 3:

Average throughput: 19.12 Mbit/s

95th percentile per-packet one-way delay: 44.132 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-07-24 17:11:20

End at: 2018-07-24 17:11:50

Local clock offset: 0.599 ms

Remote clock offset: 1.91 ms

Below is generated by plot.py at 2018-07-24 18:37:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.36 Mbit/s

95th percentile per-packet one-way delay: 44.849 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 67.93 Mbit/s

95th percentile per-packet one-way delay: 45.109 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 13.96 Mbit/s

95th percentile per-packet one-way delay: 42.254 ms

Loss rate: 0.35%

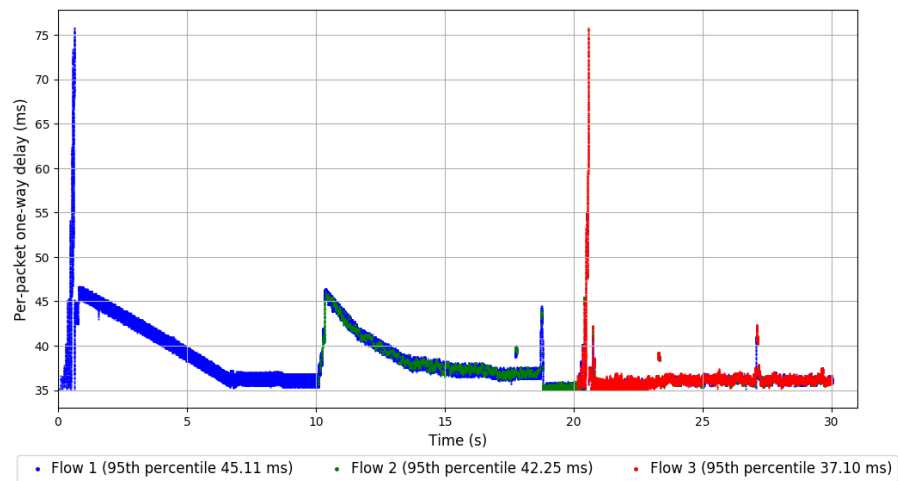
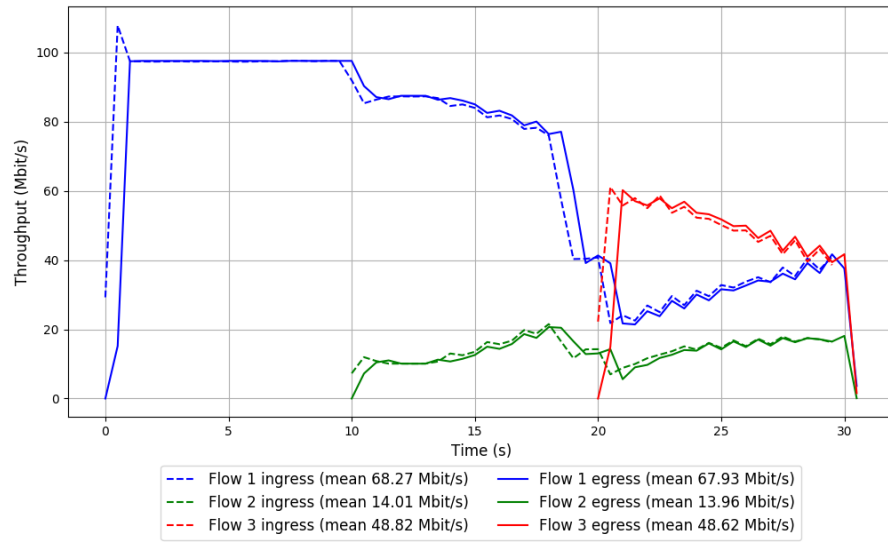
-- Flow 3:

Average throughput: 48.62 Mbit/s

95th percentile per-packet one-way delay: 37.103 ms

Loss rate: 0.40%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-07-24 17:34:15

End at: 2018-07-24 17:34:45

Local clock offset: 1.008 ms

Remote clock offset: 1.689 ms

Below is generated by plot.py at 2018-07-24 18:37:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.23 Mbit/s

95th percentile per-packet one-way delay: 50.556 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 76.94 Mbit/s

95th percentile per-packet one-way delay: 50.573 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 20.02 Mbit/s

95th percentile per-packet one-way delay: 51.592 ms

Loss rate: 0.00%

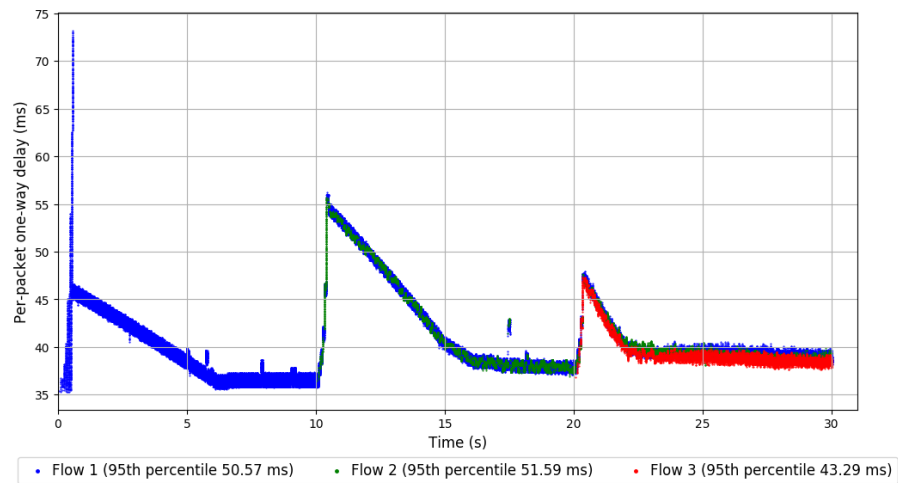
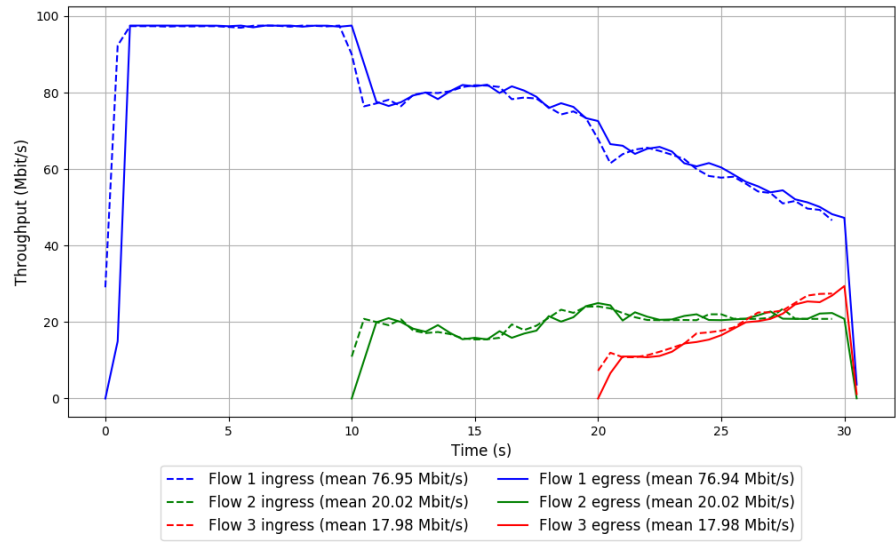
-- Flow 3:

Average throughput: 17.98 Mbit/s

95th percentile per-packet one-way delay: 43.292 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-07-24 17:57:12

End at: 2018-07-24 17:57:42

Local clock offset: 3.987 ms

Remote clock offset: 1.791 ms

Below is generated by plot.py at 2018-07-24 18:37:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.17 Mbit/s

95th percentile per-packet one-way delay: 45.346 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 77.50 Mbit/s

95th percentile per-packet one-way delay: 45.565 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 18.91 Mbit/s

95th percentile per-packet one-way delay: 44.272 ms

Loss rate: 0.00%

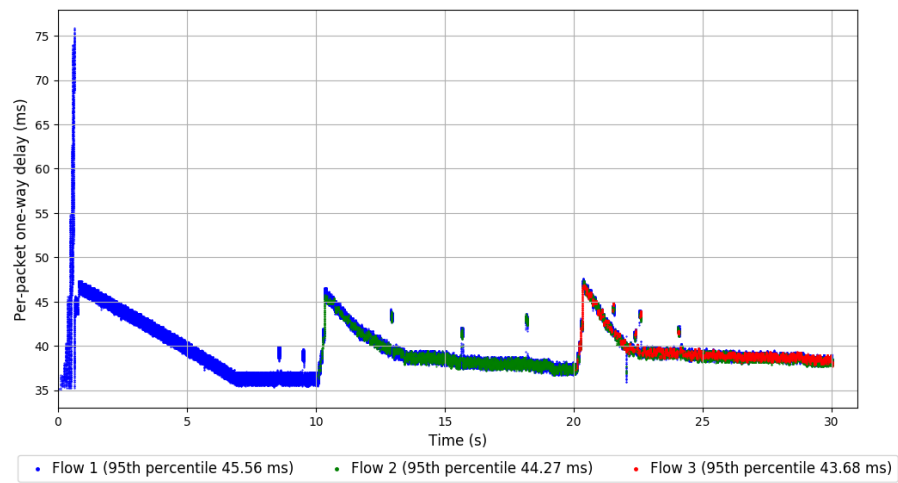
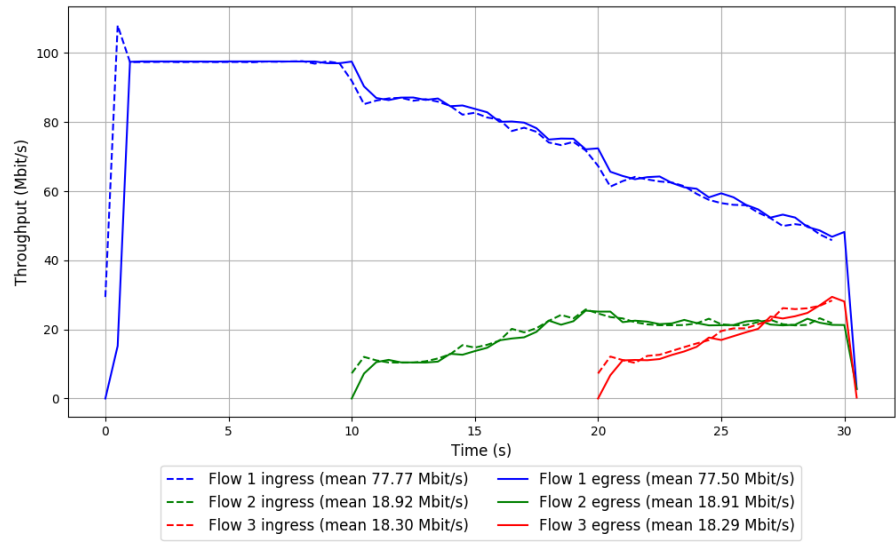
-- Flow 3:

Average throughput: 18.29 Mbit/s

95th percentile per-packet one-way delay: 43.678 ms

Loss rate: 0.03%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-07-24 14:38:28

End at: 2018-07-24 14:38:58

Local clock offset: 2.724 ms

Remote clock offset: 4.314 ms

Below is generated by plot.py at 2018-07-24 18:37:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 56.93 Mbit/s

95th percentile per-packet one-way delay: 76.284 ms

Loss rate: 64.34%

-- Flow 1:

Average throughput: 42.84 Mbit/s

95th percentile per-packet one-way delay: 77.694 ms

Loss rate: 69.54%

-- Flow 2:

Average throughput: 20.61 Mbit/s

95th percentile per-packet one-way delay: 72.076 ms

Loss rate: 25.68%

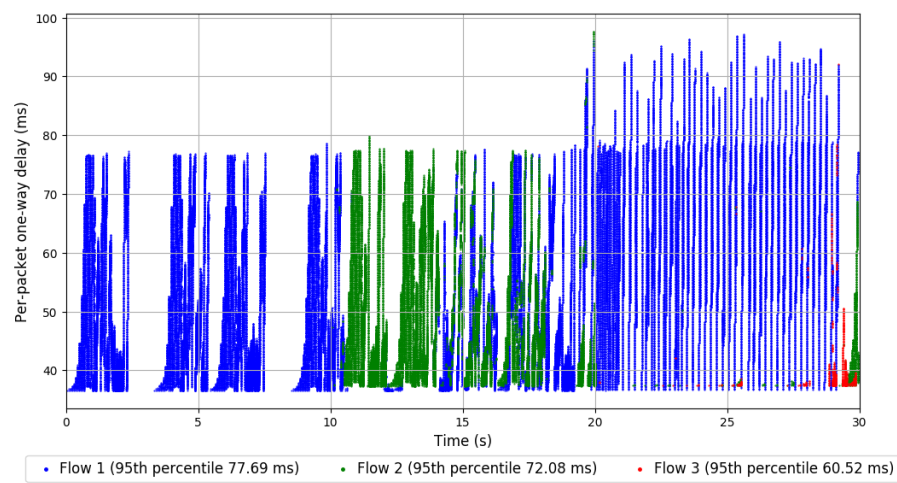
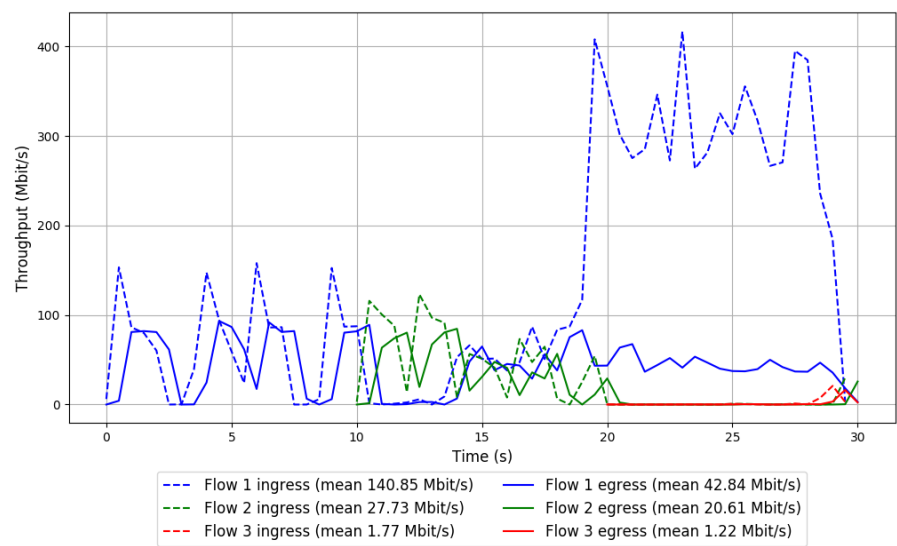
-- Flow 3:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 60.517 ms

Loss rate: 31.78%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-07-24 15:01:28

End at: 2018-07-24 15:01:58

Local clock offset: 5.055 ms

Remote clock offset: 4.794 ms

Below is generated by plot.py at 2018-07-24 18:37:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.87 Mbit/s

95th percentile per-packet one-way delay: 74.367 ms

Loss rate: 54.97%

-- Flow 1:

Average throughput: 39.77 Mbit/s

95th percentile per-packet one-way delay: 72.708 ms

Loss rate: 24.48%

-- Flow 2:

Average throughput: 37.17 Mbit/s

95th percentile per-packet one-way delay: 77.795 ms

Loss rate: 73.41%

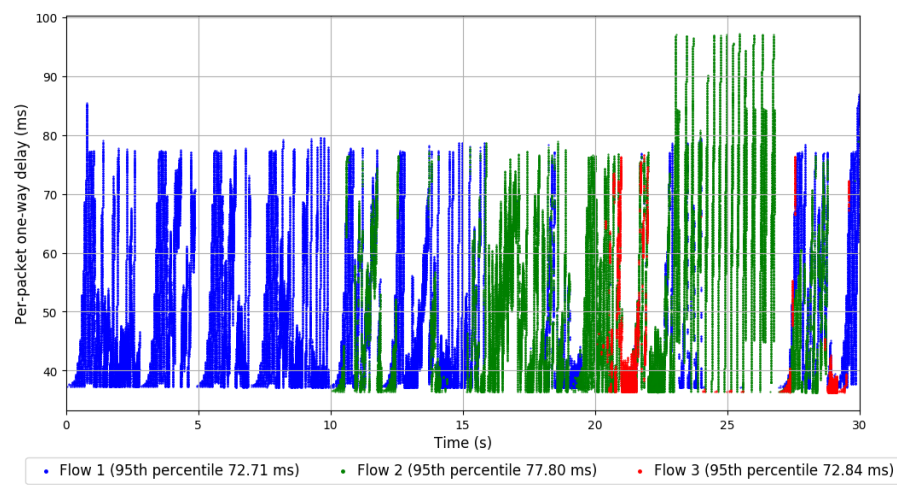
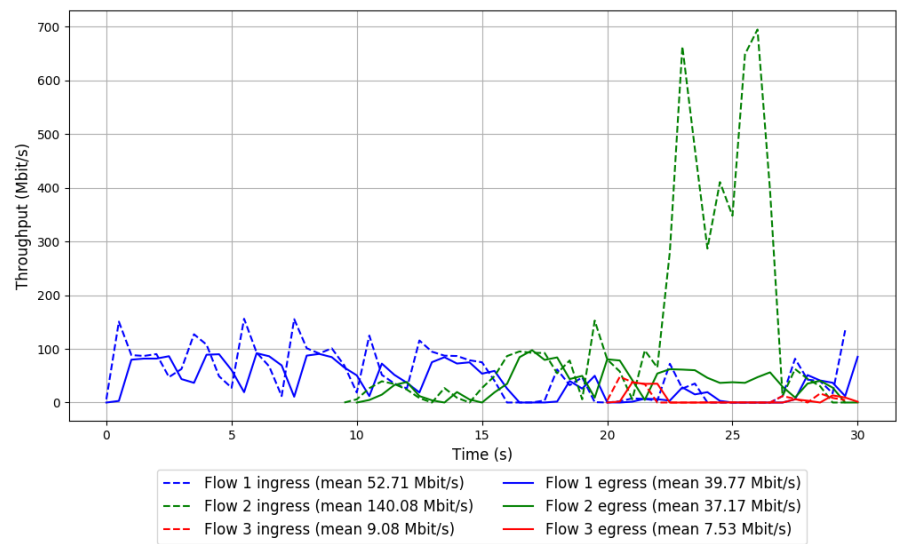
-- Flow 3:

Average throughput: 7.53 Mbit/s

95th percentile per-packet one-way delay: 72.845 ms

Loss rate: 17.69%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-07-24 15:24:36

End at: 2018-07-24 15:25:06

Local clock offset: 0.462 ms

Remote clock offset: 4.205 ms

Below is generated by plot.py at 2018-07-24 18:37:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 60.15 Mbit/s

95th percentile per-packet one-way delay: 72.165 ms

Loss rate: 27.37%

-- Flow 1:

Average throughput: 32.36 Mbit/s

95th percentile per-packet one-way delay: 71.953 ms

Loss rate: 28.21%

-- Flow 2:

Average throughput: 29.21 Mbit/s

95th percentile per-packet one-way delay: 72.306 ms

Loss rate: 25.34%

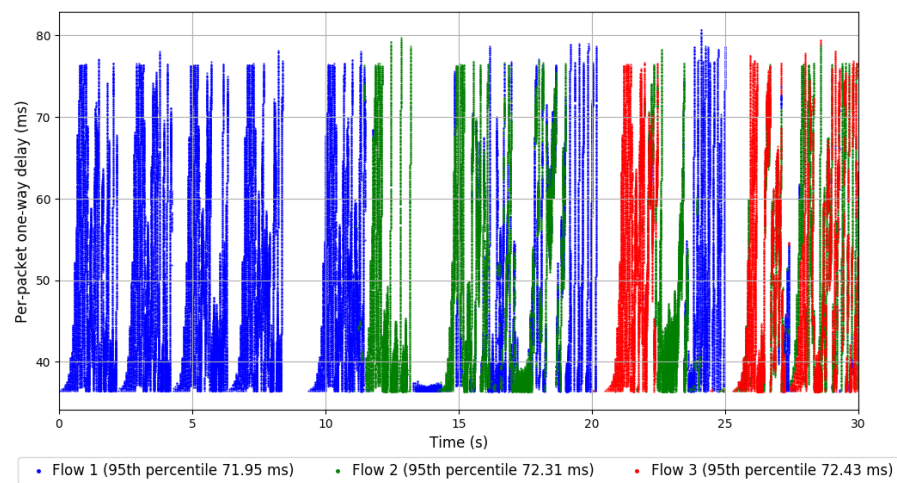
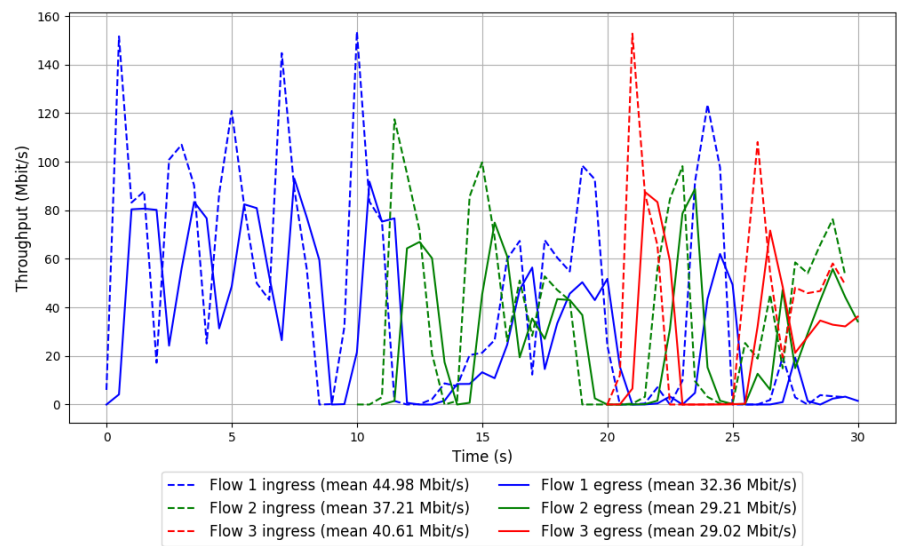
-- Flow 3:

Average throughput: 29.02 Mbit/s

95th percentile per-packet one-way delay: 72.430 ms

Loss rate: 28.32%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-07-24 15:47:42

End at: 2018-07-24 15:48:12

Local clock offset: -0.248 ms

Remote clock offset: 4.329 ms

Below is generated by plot.py at 2018-07-24 18:37:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 61.65 Mbit/s

95th percentile per-packet one-way delay: 73.839 ms

Loss rate: 47.29%

-- Flow 1:

Average throughput: 33.59 Mbit/s

95th percentile per-packet one-way delay: 74.910 ms

Loss rate: 57.53%

-- Flow 2:

Average throughput: 36.36 Mbit/s

95th percentile per-packet one-way delay: 71.974 ms

Loss rate: 22.19%

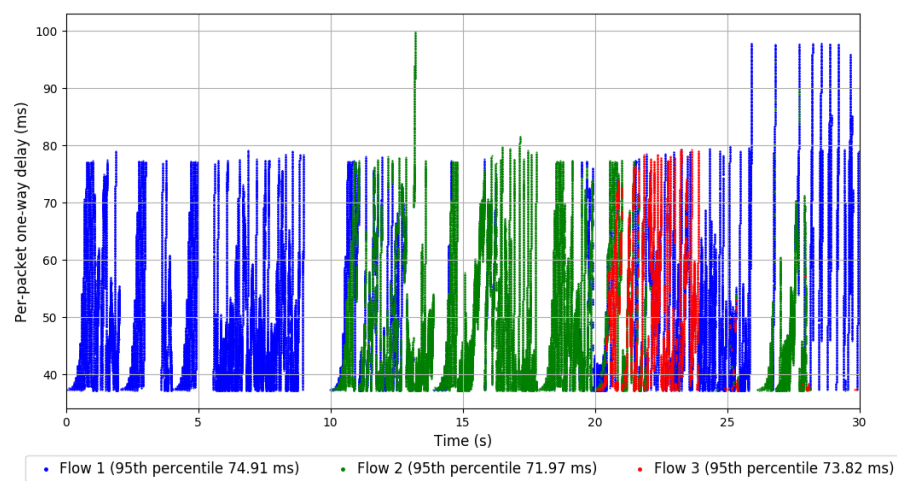
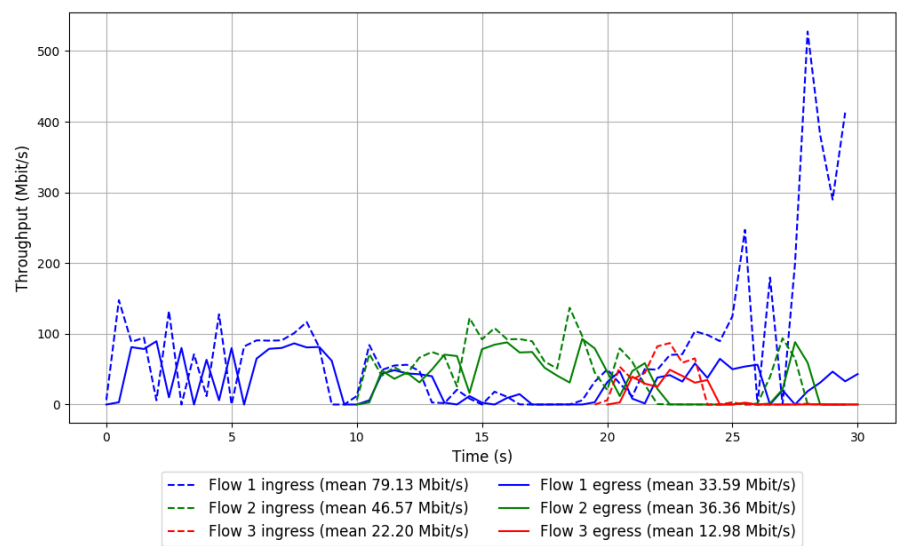
-- Flow 3:

Average throughput: 12.98 Mbit/s

95th percentile per-packet one-way delay: 73.822 ms

Loss rate: 41.52%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-07-24 16:10:35

End at: 2018-07-24 16:11:05

Local clock offset: 0.385 ms

Remote clock offset: 2.559 ms

Below is generated by plot.py at 2018-07-24 18:37:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 63.18 Mbit/s

95th percentile per-packet one-way delay: 70.831 ms

Loss rate: 30.01%

-- Flow 1:

Average throughput: 36.36 Mbit/s

95th percentile per-packet one-way delay: 70.777 ms

Loss rate: 21.91%

-- Flow 2:

Average throughput: 21.25 Mbit/s

95th percentile per-packet one-way delay: 70.152 ms

Loss rate: 33.28%

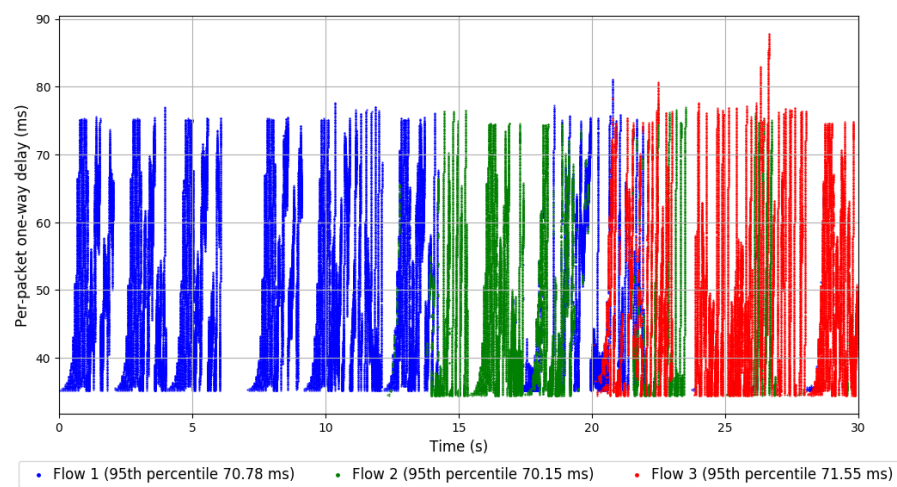
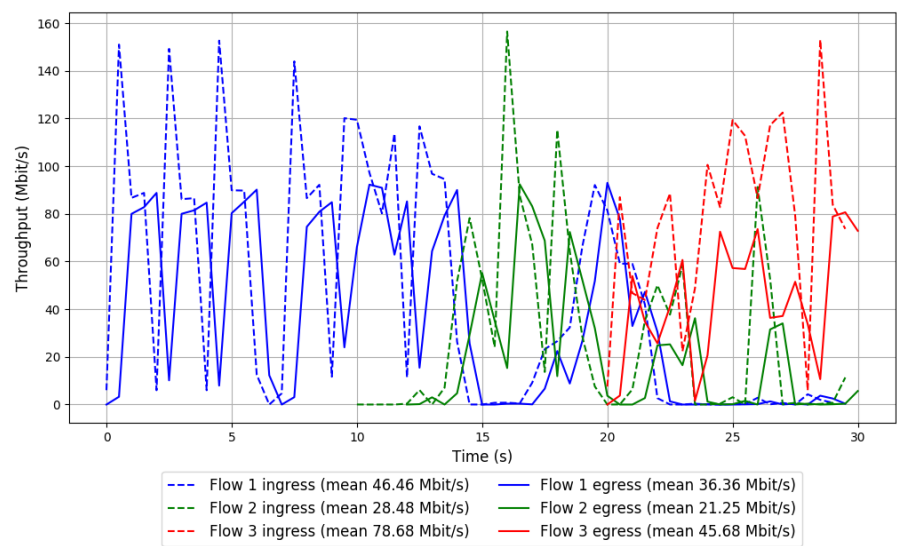
-- Flow 3:

Average throughput: 45.68 Mbit/s

95th percentile per-packet one-way delay: 71.554 ms

Loss rate: 41.91%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-07-24 16:33:32

End at: 2018-07-24 16:34:02

Local clock offset: 0.941 ms

Remote clock offset: 2.673 ms

Below is generated by plot.py at 2018-07-24 18:37:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 63.03 Mbit/s

95th percentile per-packet one-way delay: 71.494 ms

Loss rate: 45.34%

-- Flow 1:

Average throughput: 36.98 Mbit/s

95th percentile per-packet one-way delay: 71.239 ms

Loss rate: 40.72%

-- Flow 2:

Average throughput: 30.37 Mbit/s

95th percentile per-packet one-way delay: 72.419 ms

Loss rate: 55.22%

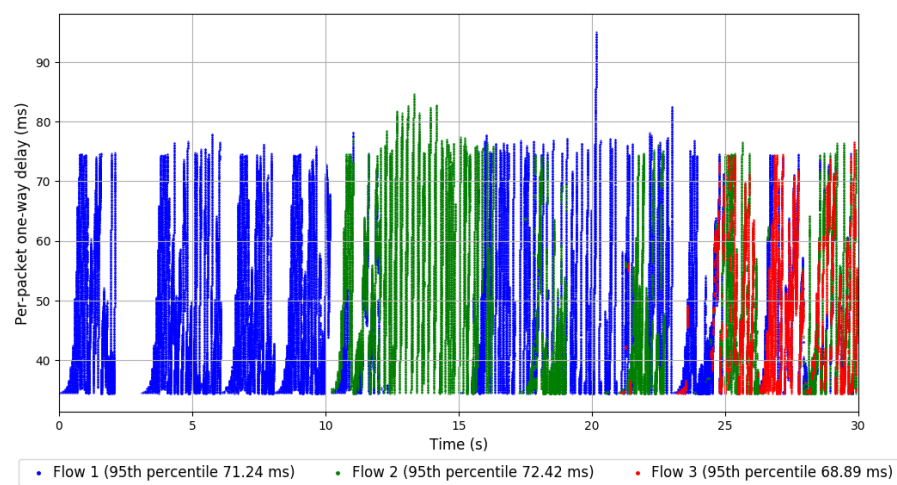
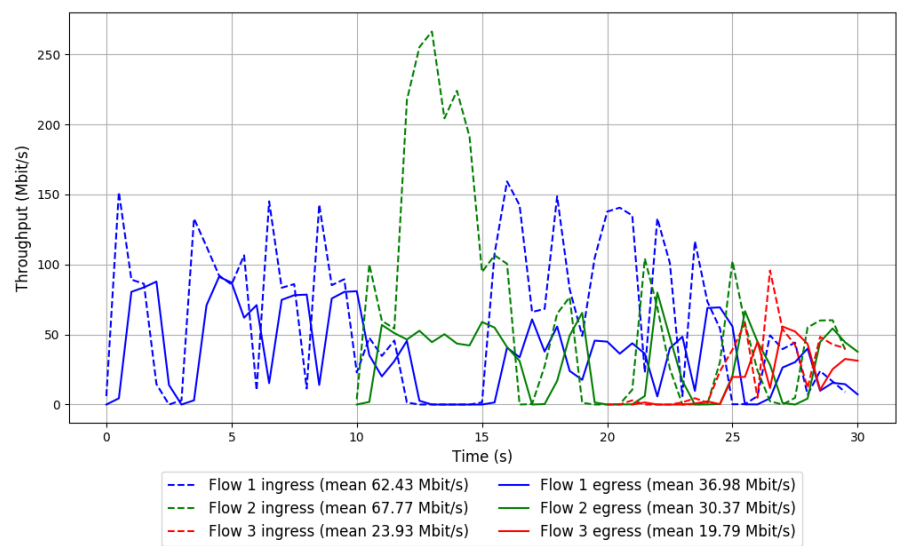
-- Flow 3:

Average throughput: 19.79 Mbit/s

95th percentile per-packet one-way delay: 68.885 ms

Loss rate: 25.51%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-07-24 16:56:31

End at: 2018-07-24 16:57:01

Local clock offset: 0.943 ms

Remote clock offset: 2.105 ms

Below is generated by plot.py at 2018-07-24 18:38:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.02 Mbit/s

95th percentile per-packet one-way delay: 72.945 ms

Loss rate: 58.46%

-- Flow 1:

Average throughput: 42.96 Mbit/s

95th percentile per-packet one-way delay: 70.702 ms

Loss rate: 28.82%

-- Flow 2:

Average throughput: 38.14 Mbit/s

95th percentile per-packet one-way delay: 77.162 ms

Loss rate: 74.81%

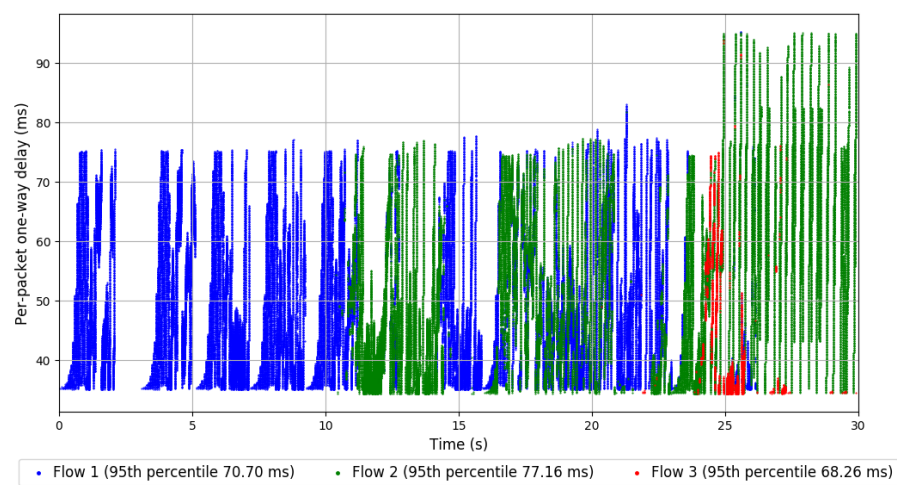
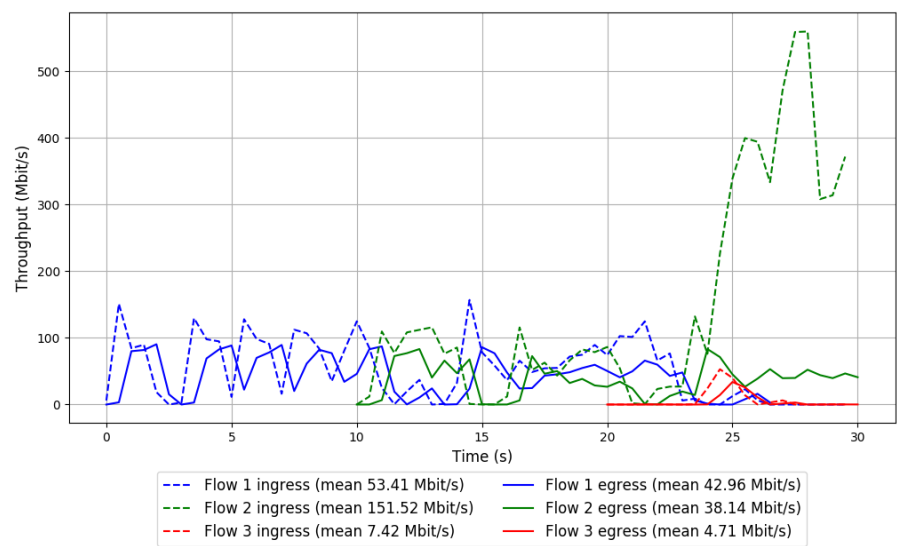
-- Flow 3:

Average throughput: 4.71 Mbit/s

95th percentile per-packet one-way delay: 68.256 ms

Loss rate: 36.61%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-07-24 17:19:26

End at: 2018-07-24 17:19:56

Local clock offset: 0.391 ms

Remote clock offset: 1.878 ms

Below is generated by plot.py at 2018-07-24 18:38:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 61.62 Mbit/s

95th percentile per-packet one-way delay: 74.023 ms

Loss rate: 66.79%

-- Flow 1:

Average throughput: 39.60 Mbit/s

95th percentile per-packet one-way delay: 72.927 ms

Loss rate: 62.04%

-- Flow 2:

Average throughput: 31.93 Mbit/s

95th percentile per-packet one-way delay: 76.382 ms

Loss rate: 73.36%

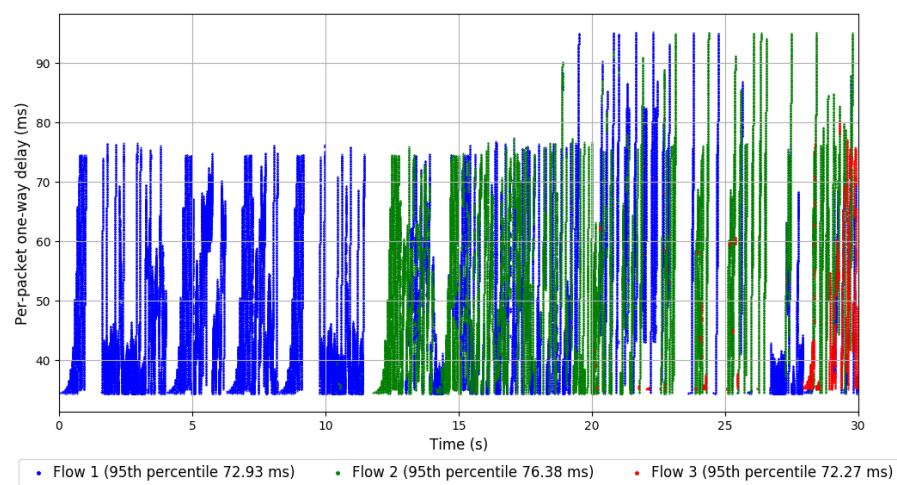
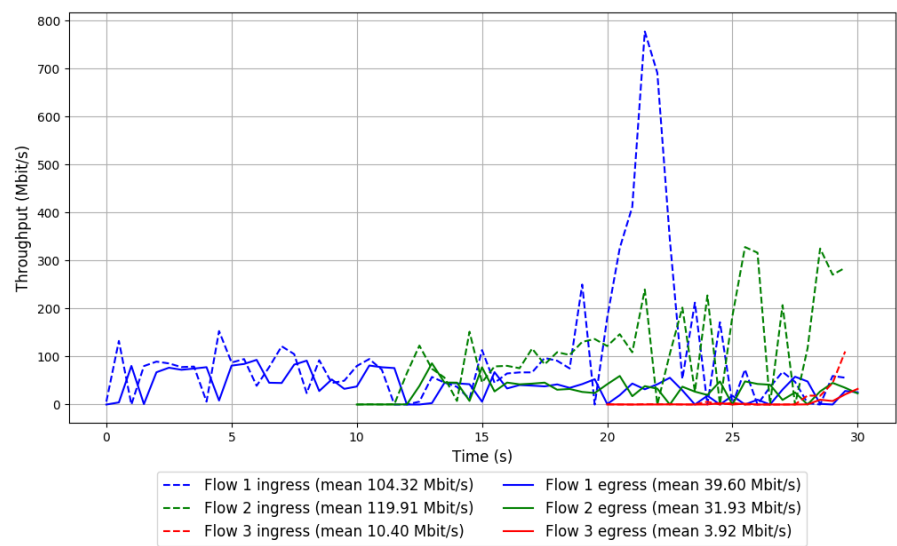
-- Flow 3:

Average throughput: 3.92 Mbit/s

95th percentile per-packet one-way delay: 72.269 ms

Loss rate: 62.31%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-07-24 17:42:20

End at: 2018-07-24 17:42:50

Local clock offset: 2.644 ms

Remote clock offset: 1.638 ms

Below is generated by plot.py at 2018-07-24 18:38:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 65.80 Mbit/s

95th percentile per-packet one-way delay: 71.109 ms

Loss rate: 33.26%

-- Flow 1:

Average throughput: 40.70 Mbit/s

95th percentile per-packet one-way delay: 71.161 ms

Loss rate: 30.66%

-- Flow 2:

Average throughput: 30.01 Mbit/s

95th percentile per-packet one-way delay: 70.904 ms

Loss rate: 38.33%

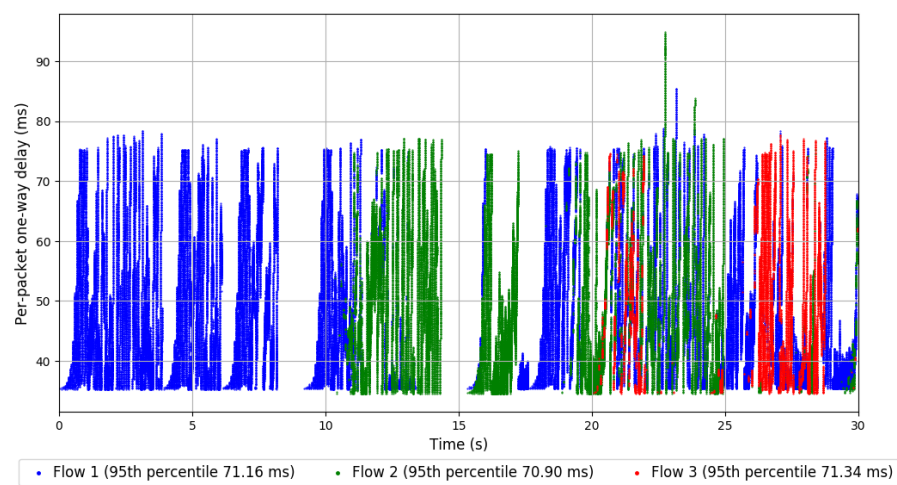
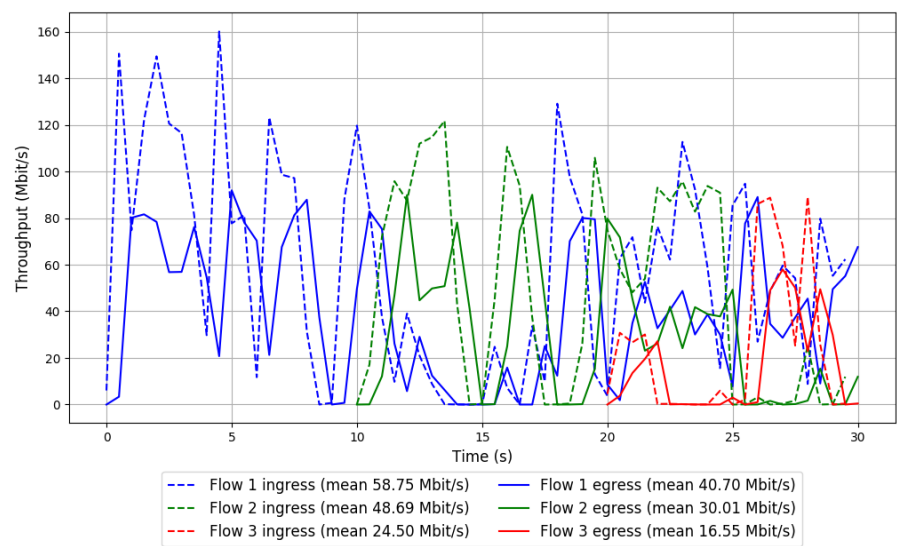
-- Flow 3:

Average throughput: 16.55 Mbit/s

95th percentile per-packet one-way delay: 71.337 ms

Loss rate: 32.26%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-07-24 18:05:19

End at: 2018-07-24 18:05:49

Local clock offset: 2.923 ms

Remote clock offset: 1.869 ms

Below is generated by plot.py at 2018-07-24 18:38:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.47 Mbit/s

95th percentile per-packet one-way delay: 70.932 ms

Loss rate: 39.77%

-- Flow 1:

Average throughput: 39.85 Mbit/s

95th percentile per-packet one-way delay: 70.528 ms

Loss rate: 37.41%

-- Flow 2:

Average throughput: 26.02 Mbit/s

95th percentile per-packet one-way delay: 70.301 ms

Loss rate: 26.41%

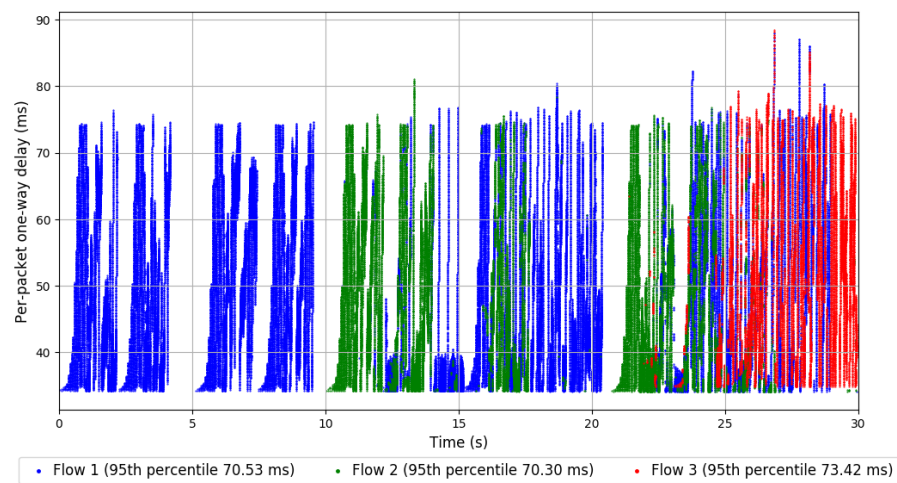
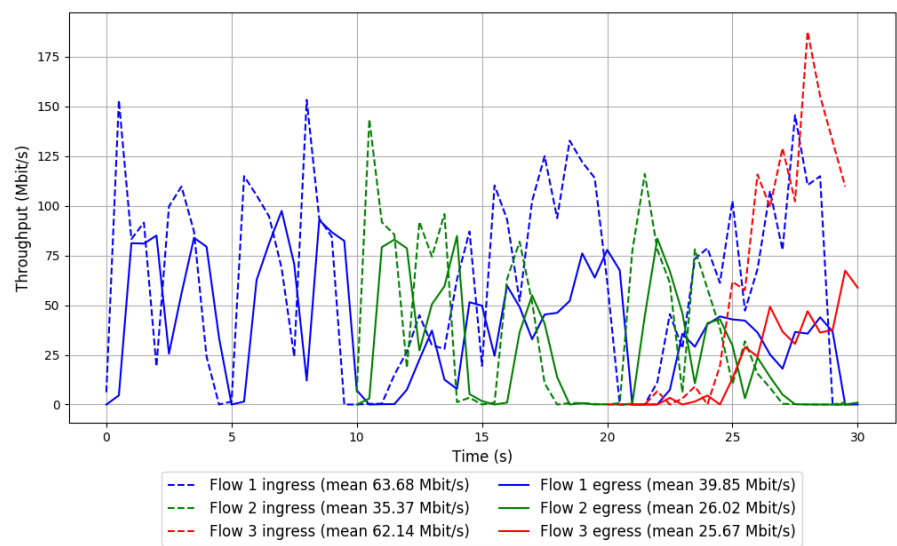
-- Flow 3:

Average throughput: 25.67 Mbit/s

95th percentile per-packet one-way delay: 73.424 ms

Loss rate: 63.10%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-07-24 14:37:05

End at: 2018-07-24 14:37:35

Local clock offset: 2.388 ms

Remote clock offset: 4.285 ms

Below is generated by plot.py at 2018-07-24 18:38:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.92 Mbit/s

95th percentile per-packet one-way delay: 45.168 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 64.46 Mbit/s

95th percentile per-packet one-way delay: 45.091 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 26.87 Mbit/s

95th percentile per-packet one-way delay: 45.370 ms

Loss rate: 0.07%

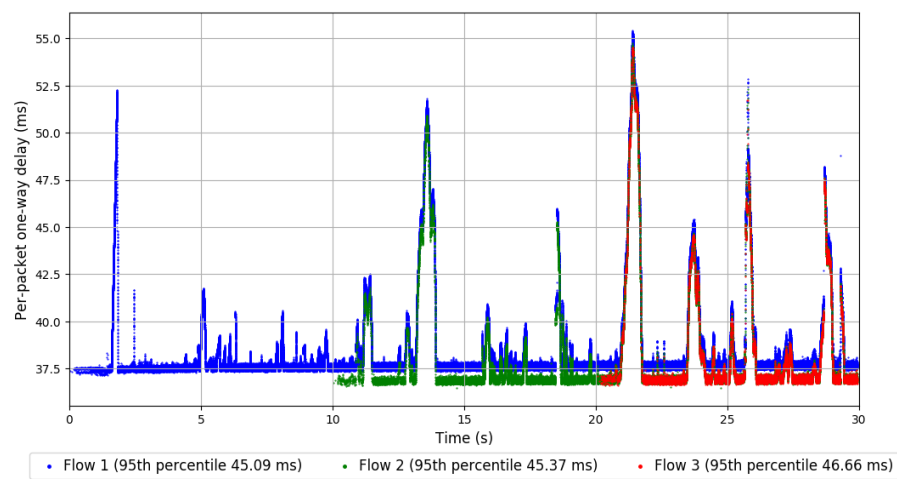
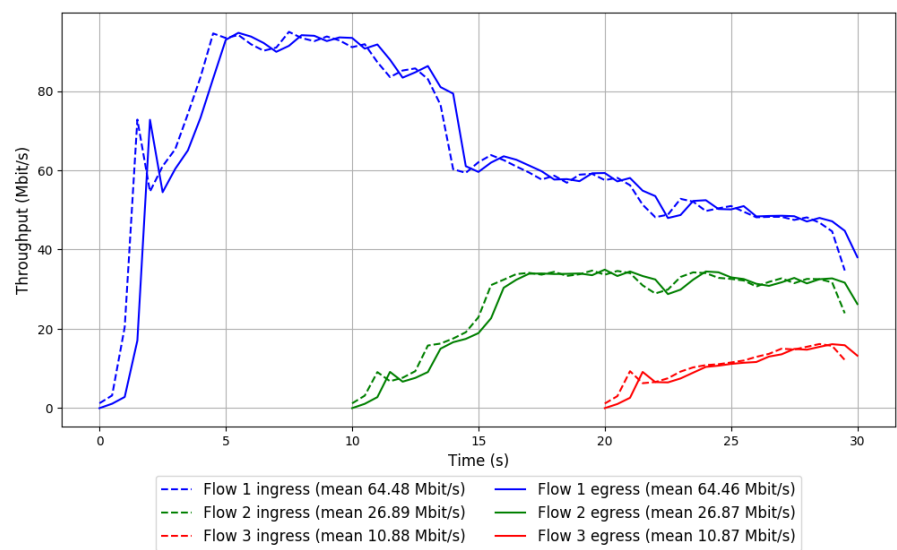
-- Flow 3:

Average throughput: 10.87 Mbit/s

95th percentile per-packet one-way delay: 46.656 ms

Loss rate: 0.11%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-07-24 15:00:03

End at: 2018-07-24 15:00:33

Local clock offset: 5.002 ms

Remote clock offset: 2.435 ms

Below is generated by plot.py at 2018-07-24 18:38:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.26 Mbit/s

95th percentile per-packet one-way delay: 38.788 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 60.01 Mbit/s

95th percentile per-packet one-way delay: 39.313 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 32.82 Mbit/s

95th percentile per-packet one-way delay: 37.957 ms

Loss rate: 0.14%

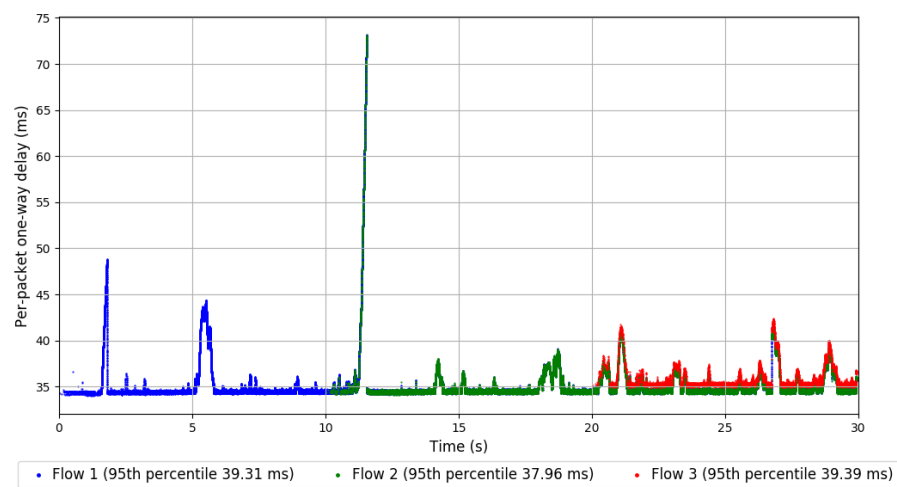
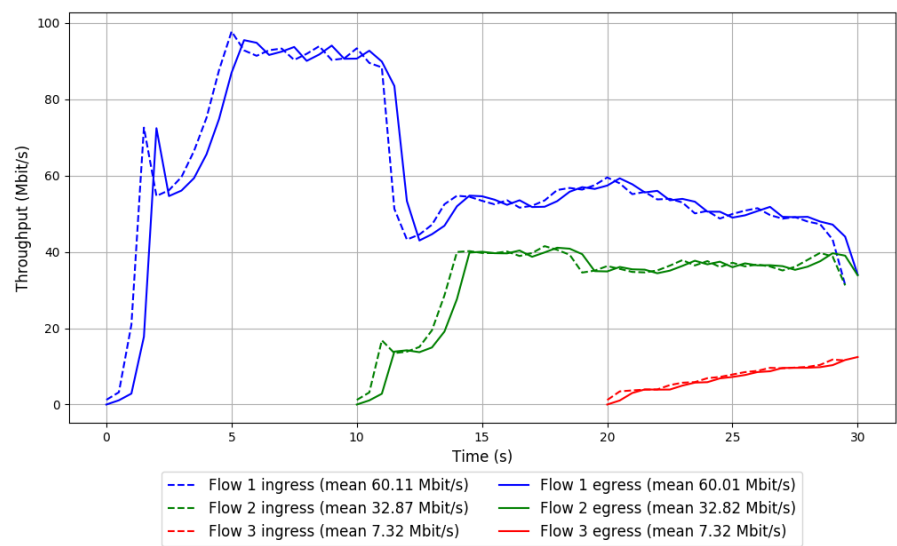
-- Flow 3:

Average throughput: 7.32 Mbit/s

95th percentile per-packet one-way delay: 39.390 ms

Loss rate: 0.02%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-07-24 15:23:14

End at: 2018-07-24 15:23:44

Local clock offset: 0.557 ms

Remote clock offset: 1.899 ms

Below is generated by plot.py at 2018-07-24 18:38:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.58 Mbit/s

95th percentile per-packet one-way delay: 49.015 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 62.20 Mbit/s

95th percentile per-packet one-way delay: 49.276 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 26.12 Mbit/s

95th percentile per-packet one-way delay: 49.202 ms

Loss rate: 0.00%

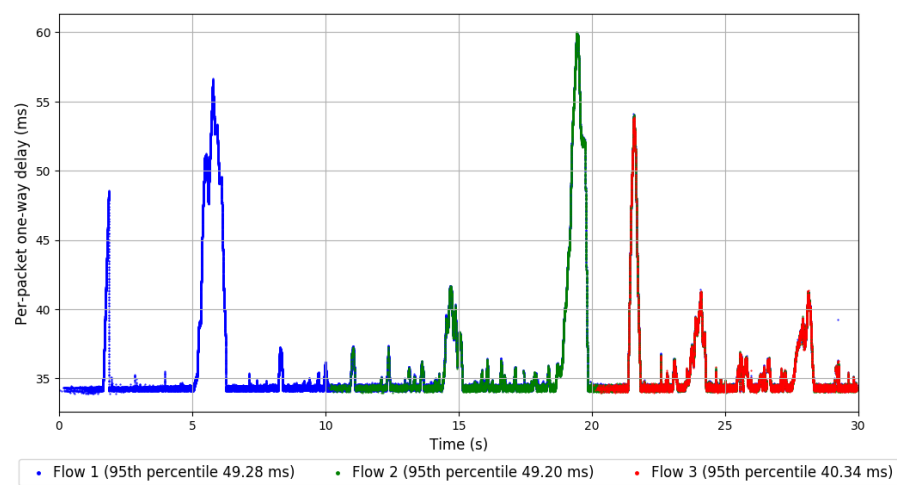
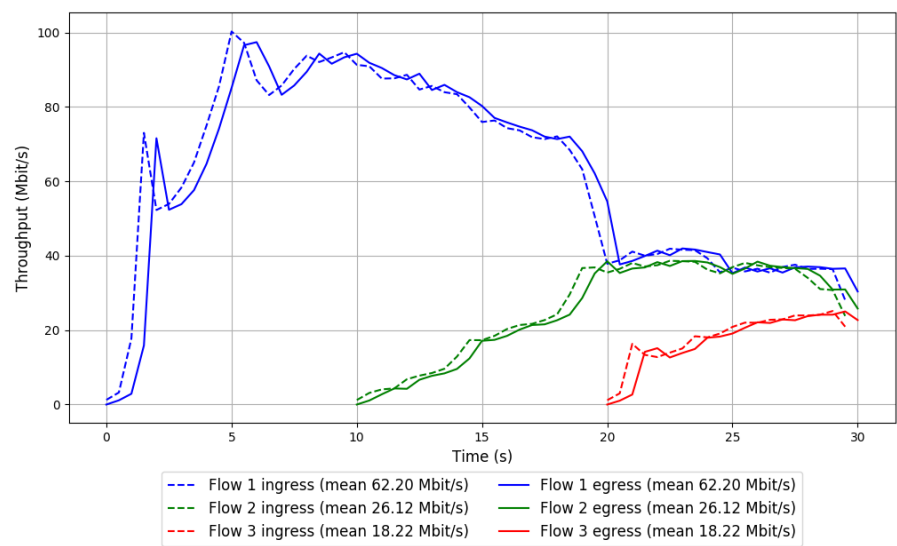
-- Flow 3:

Average throughput: 18.22 Mbit/s

95th percentile per-packet one-way delay: 40.343 ms

Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-07-24 15:46:18

End at: 2018-07-24 15:46:48

Local clock offset: -0.29 ms

Remote clock offset: 4.389 ms

Below is generated by plot.py at 2018-07-24 18:39:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.01 Mbit/s

95th percentile per-packet one-way delay: 43.729 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 67.38 Mbit/s

95th percentile per-packet one-way delay: 43.133 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 19.20 Mbit/s

95th percentile per-packet one-way delay: 44.492 ms

Loss rate: 0.00%

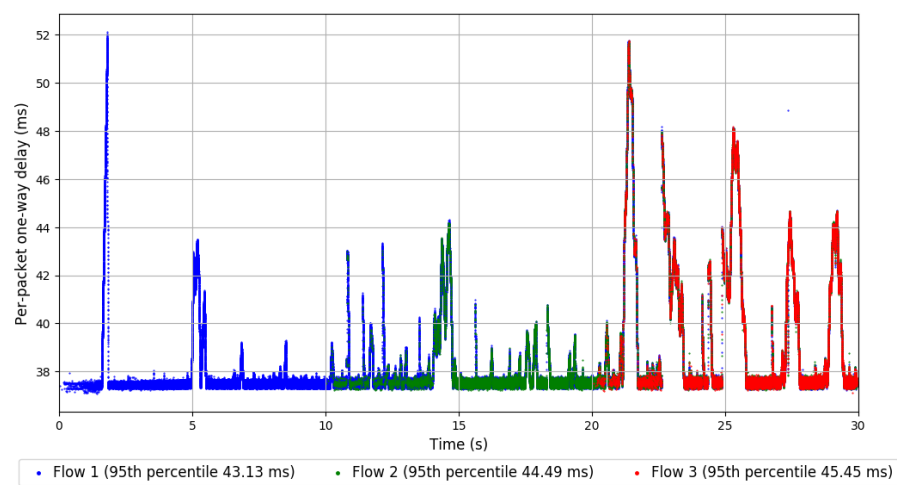
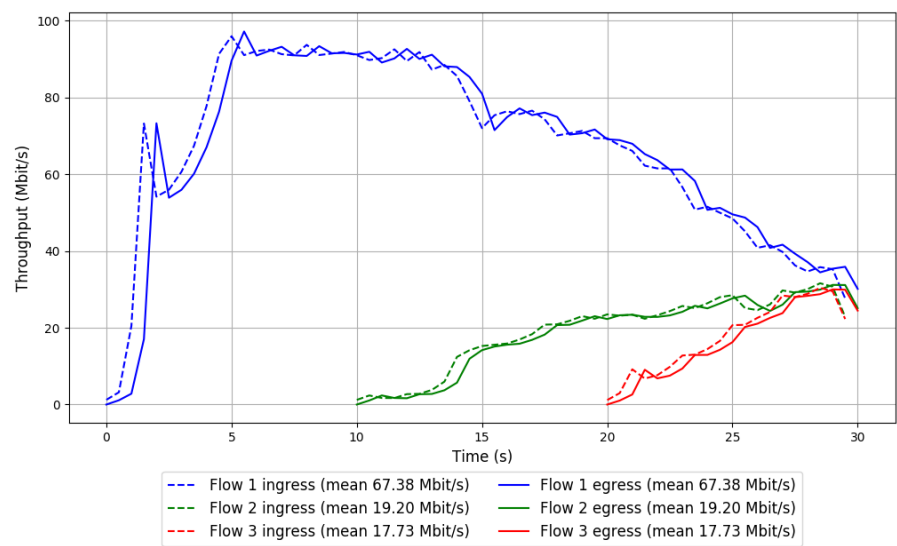
-- Flow 3:

Average throughput: 17.73 Mbit/s

95th percentile per-packet one-way delay: 45.450 ms

Loss rate: 0.01%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-07-24 16:09:13

End at: 2018-07-24 16:09:43

Local clock offset: 0.181 ms

Remote clock offset: 2.522 ms

Below is generated by plot.py at 2018-07-24 18:39:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.92 Mbit/s

95th percentile per-packet one-way delay: 51.037 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 57.37 Mbit/s

95th percentile per-packet one-way delay: 49.290 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 30.27 Mbit/s

95th percentile per-packet one-way delay: 52.767 ms

Loss rate: 0.17%

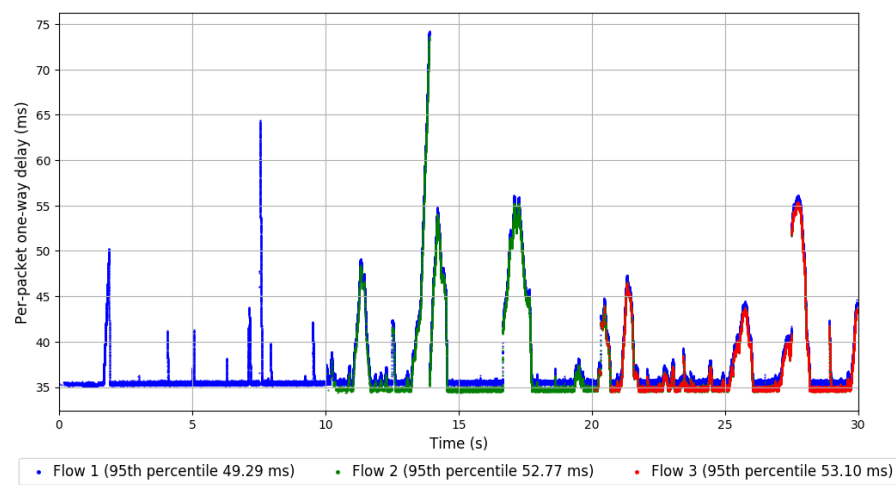
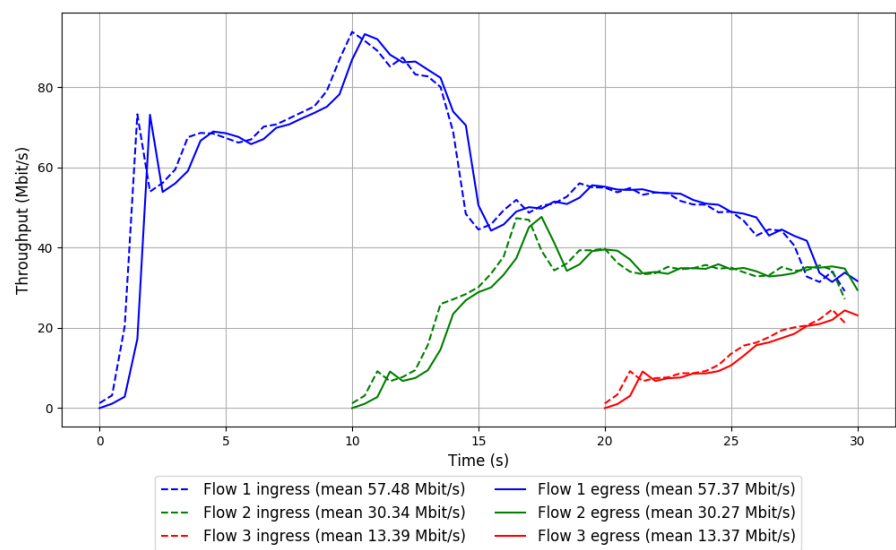
-- Flow 3:

Average throughput: 13.37 Mbit/s

95th percentile per-packet one-way delay: 53.104 ms

Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-07-24 16:32:10

End at: 2018-07-24 16:32:40

Local clock offset: 0.877 ms

Remote clock offset: 2.623 ms

Below is generated by plot.py at 2018-07-24 18:39:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.44 Mbit/s

95th percentile per-packet one-way delay: 48.124 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 64.15 Mbit/s

95th percentile per-packet one-way delay: 48.192 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 20.83 Mbit/s

95th percentile per-packet one-way delay: 47.414 ms

Loss rate: 0.01%

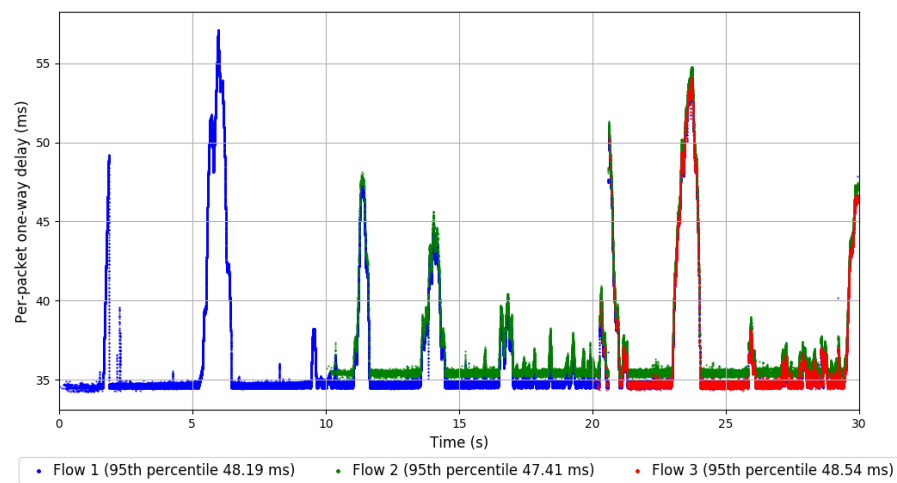
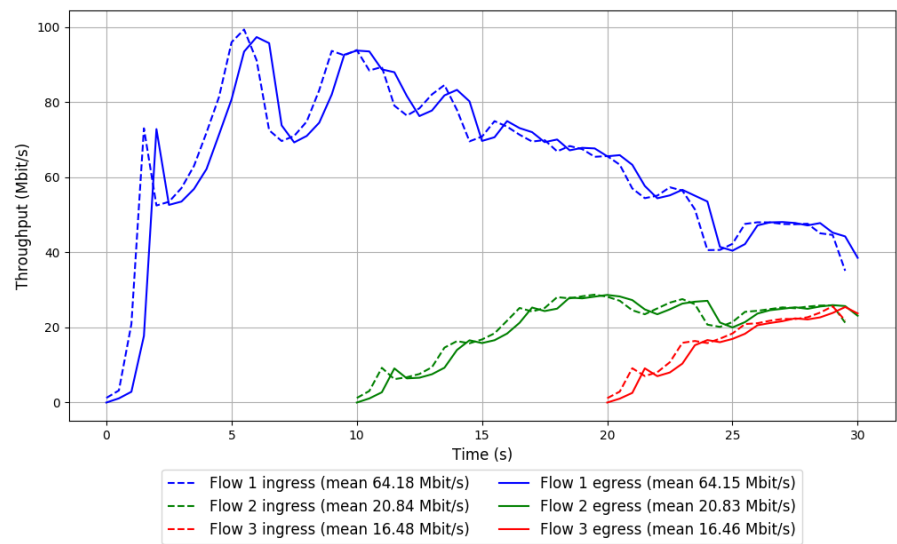
-- Flow 3:

Average throughput: 16.46 Mbit/s

95th percentile per-packet one-way delay: 48.536 ms

Loss rate: 0.00%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-07-24 16:55:09

End at: 2018-07-24 16:55:39

Local clock offset: 0.868 ms

Remote clock offset: 2.183 ms

Below is generated by plot.py at 2018-07-24 18:39:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.91 Mbit/s

95th percentile per-packet one-way delay: 56.442 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 60.65 Mbit/s

95th percentile per-packet one-way delay: 52.521 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 27.94 Mbit/s

95th percentile per-packet one-way delay: 63.471 ms

Loss rate: 0.21%

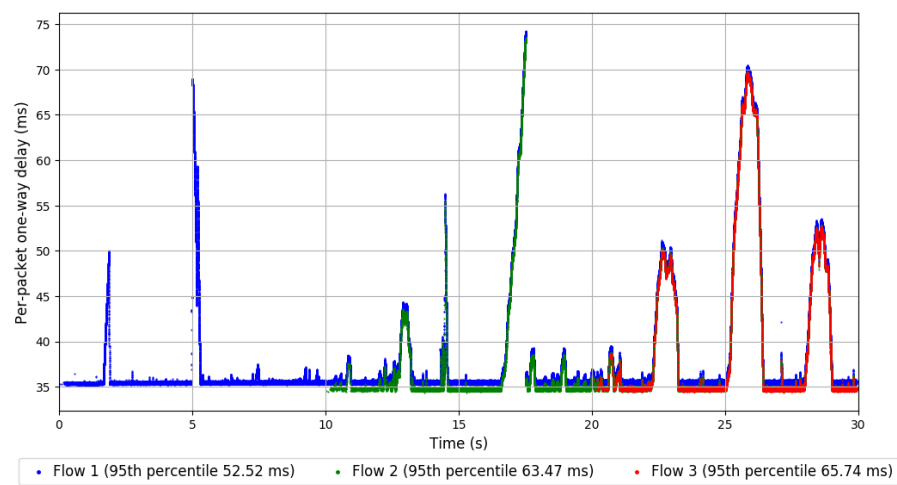
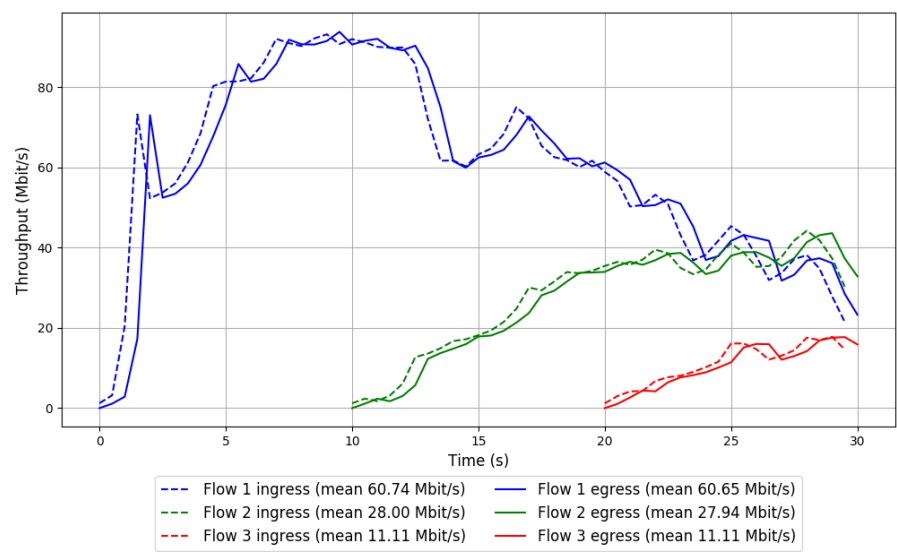
-- Flow 3:

Average throughput: 11.11 Mbit/s

95th percentile per-packet one-way delay: 65.739 ms

Loss rate: 0.00%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-07-24 17:18:04

End at: 2018-07-24 17:18:34

Local clock offset: 0.346 ms

Remote clock offset: 1.898 ms

Below is generated by plot.py at 2018-07-24 18:39:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.70 Mbit/s

95th percentile per-packet one-way delay: 41.980 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 68.38 Mbit/s

95th percentile per-packet one-way delay: 41.556 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 21.86 Mbit/s

95th percentile per-packet one-way delay: 43.226 ms

Loss rate: 0.01%

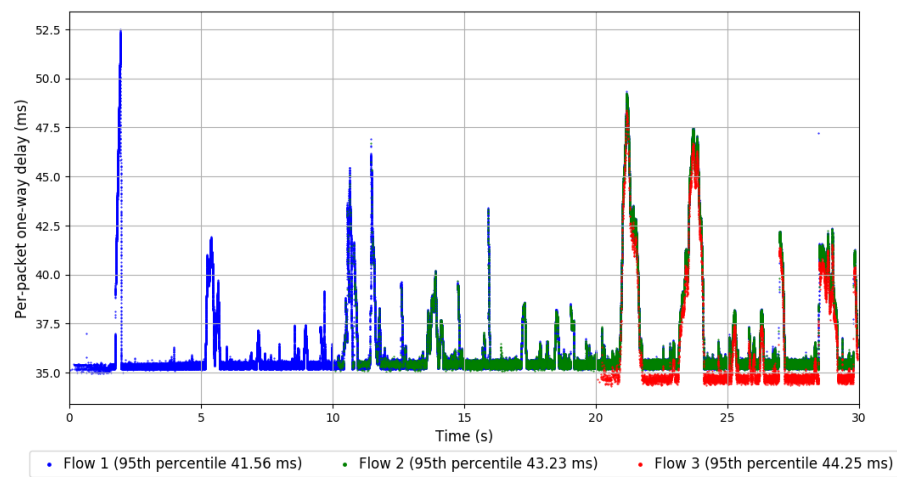
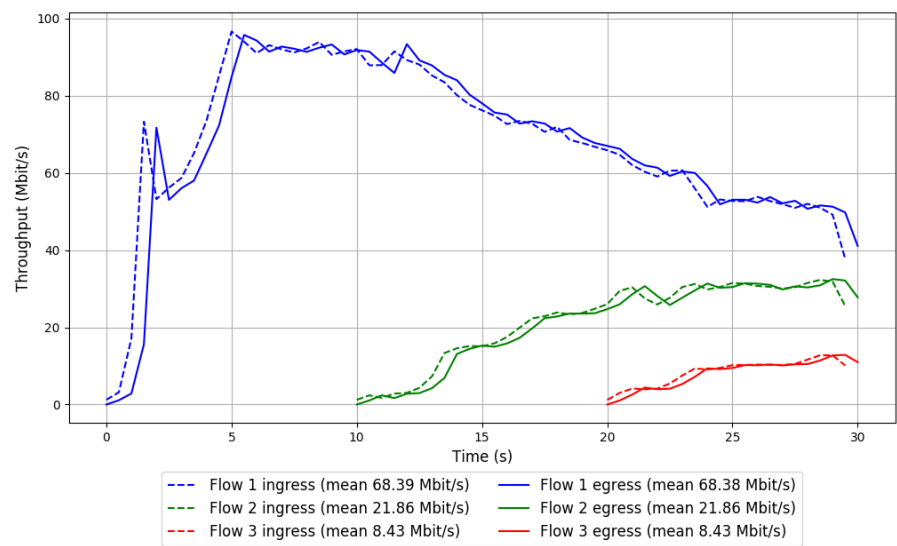
-- Flow 3:

Average throughput: 8.43 Mbit/s

95th percentile per-packet one-way delay: 44.254 ms

Loss rate: 0.00%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-07-24 17:40:58

End at: 2018-07-24 17:41:28

Local clock offset: 2.558 ms

Remote clock offset: 1.696 ms

Below is generated by plot.py at 2018-07-24 18:39:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.23 Mbit/s

95th percentile per-packet one-way delay: 47.208 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 64.08 Mbit/s

95th percentile per-packet one-way delay: 47.794 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 25.54 Mbit/s

95th percentile per-packet one-way delay: 42.026 ms

Loss rate: 0.00%

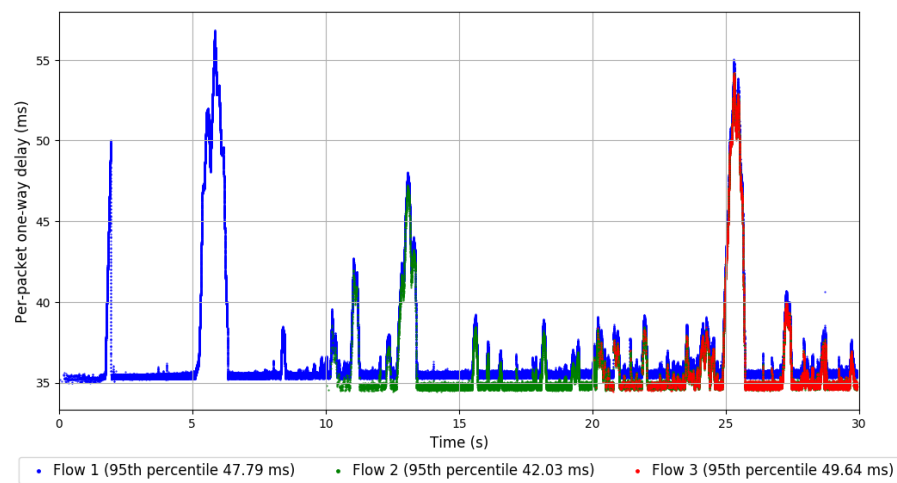
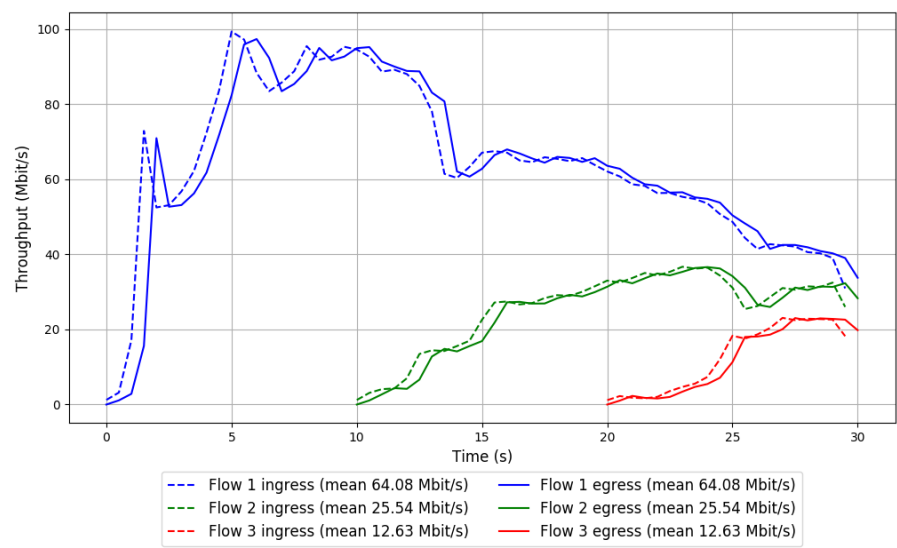
-- Flow 3:

Average throughput: 12.63 Mbit/s

95th percentile per-packet one-way delay: 49.636 ms

Loss rate: 0.00%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-07-24 18:03:57

End at: 2018-07-24 18:04:27

Local clock offset: 3.247 ms

Remote clock offset: 1.838 ms

Below is generated by plot.py at 2018-07-24 18:39:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.87 Mbit/s

95th percentile per-packet one-way delay: 48.733 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 63.72 Mbit/s

95th percentile per-packet one-way delay: 47.674 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 27.83 Mbit/s

95th percentile per-packet one-way delay: 51.093 ms

Loss rate: 0.01%

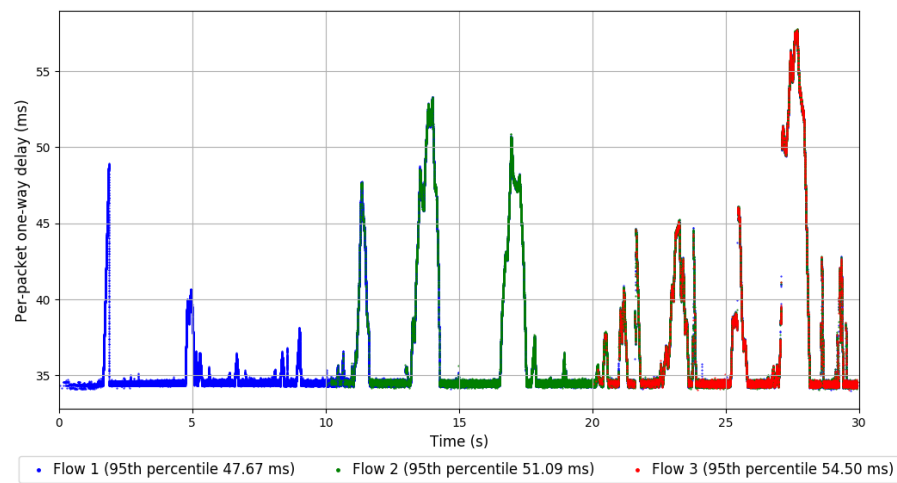
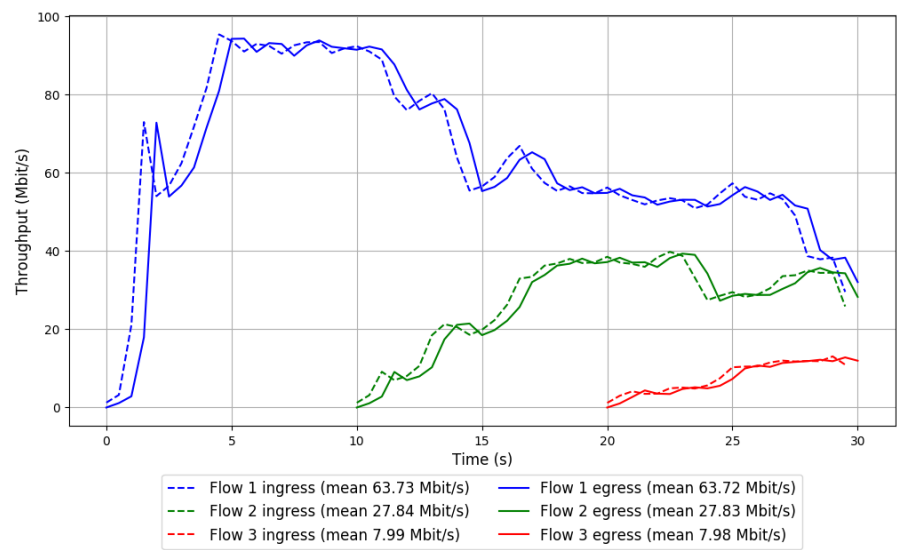
-- Flow 3:

Average throughput: 7.98 Mbit/s

95th percentile per-packet one-way delay: 54.502 ms

Loss rate: 0.04%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-07-24 14:23:36

End at: 2018-07-24 14:24:06

Local clock offset: 0.617 ms

Remote clock offset: 4.293 ms

Below is generated by plot.py at 2018-07-24 18:39:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.77 Mbit/s

95th percentile per-packet one-way delay: 39.011 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 38.116 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 39.829 ms

Loss rate: 0.00%

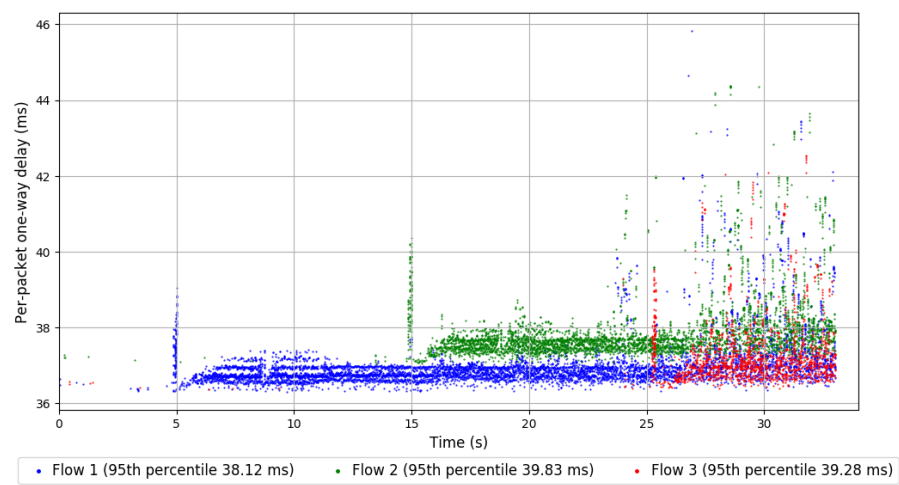
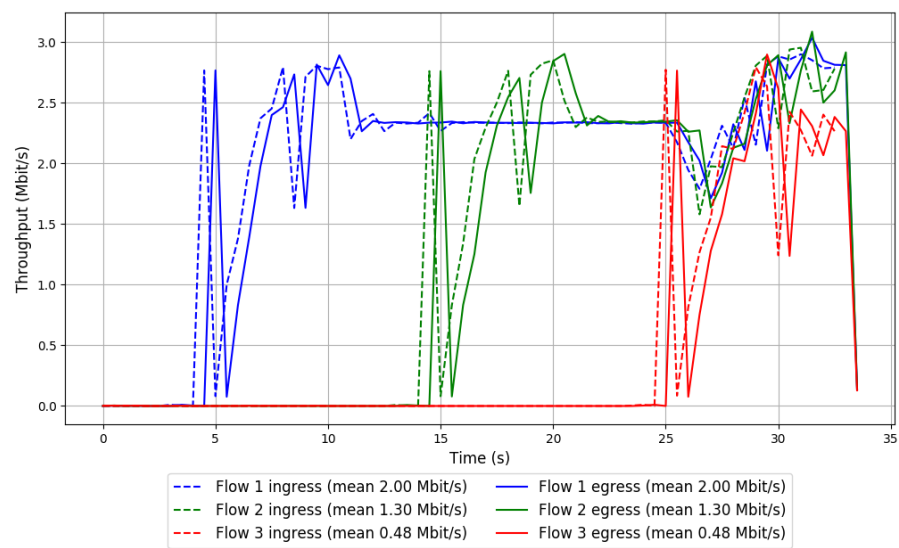
-- Flow 3:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 39.277 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-07-24 14:46:38

End at: 2018-07-24 14:47:08

Local clock offset: 3.953 ms

Remote clock offset: 4.421 ms

Below is generated by plot.py at 2018-07-24 18:39:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.77 Mbit/s

95th percentile per-packet one-way delay: 38.084 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 37.965 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 37.862 ms

Loss rate: 0.00%

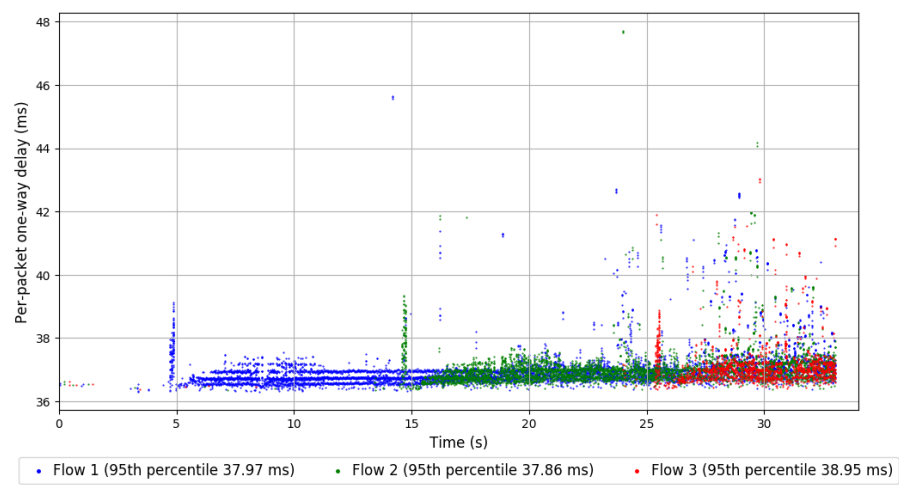
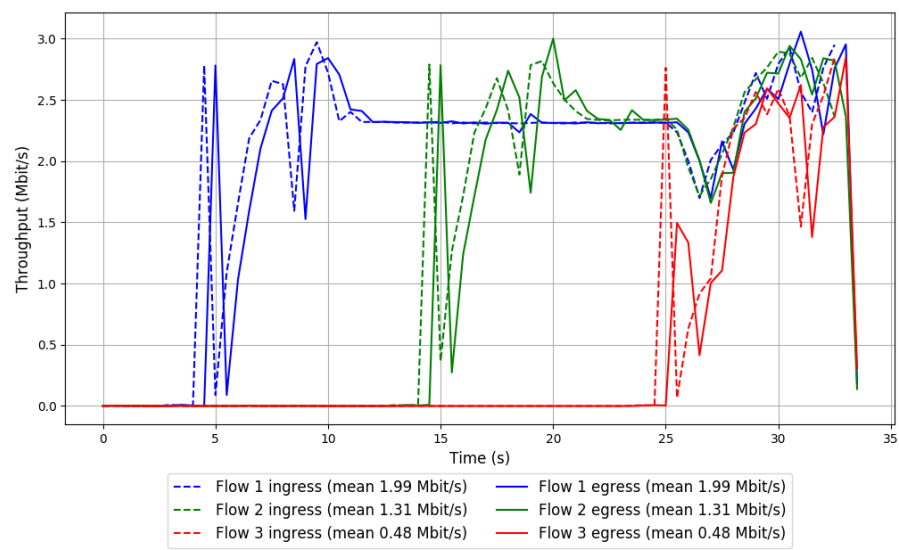
-- Flow 3:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 38.952 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-07-24 15:09:49

End at: 2018-07-24 15:10:19

Local clock offset: 2.283 ms

Remote clock offset: 4.3 ms

Below is generated by plot.py at 2018-07-24 18:39:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.75 Mbit/s

95th percentile per-packet one-way delay: 38.494 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 38.242 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.28 Mbit/s

95th percentile per-packet one-way delay: 37.889 ms

Loss rate: 0.00%

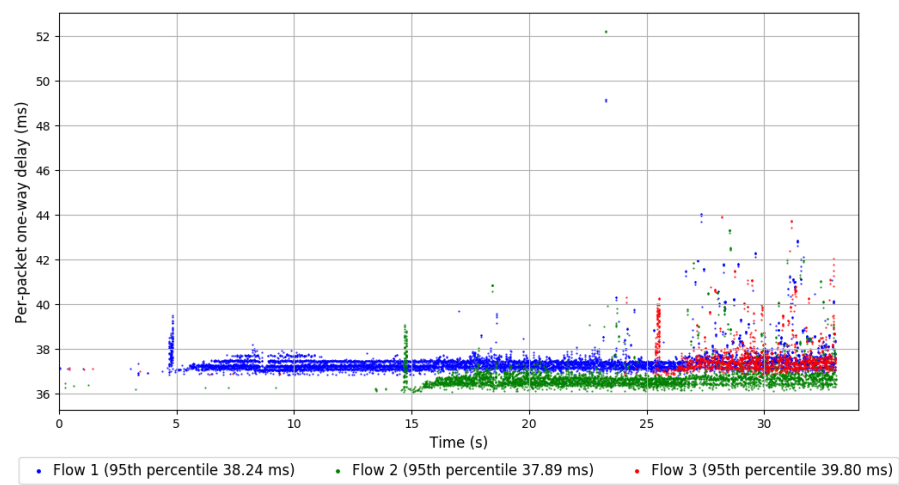
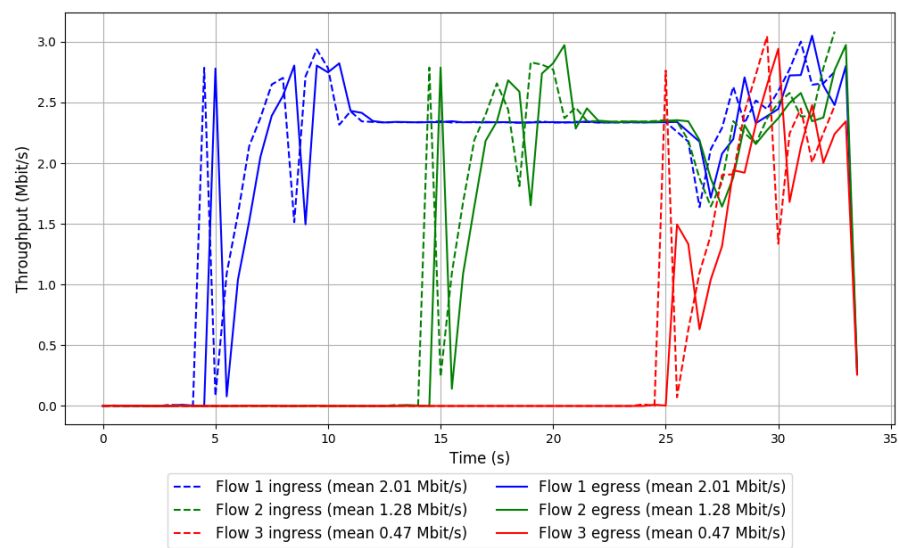
-- Flow 3:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 39.795 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-07-24 15:32:46

End at: 2018-07-24 15:33:16

Local clock offset: 0.104 ms

Remote clock offset: 4.33 ms

Below is generated by plot.py at 2018-07-24 18:39:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.74 Mbit/s

95th percentile per-packet one-way delay: 38.915 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 38.689 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 38.377 ms

Loss rate: 0.00%

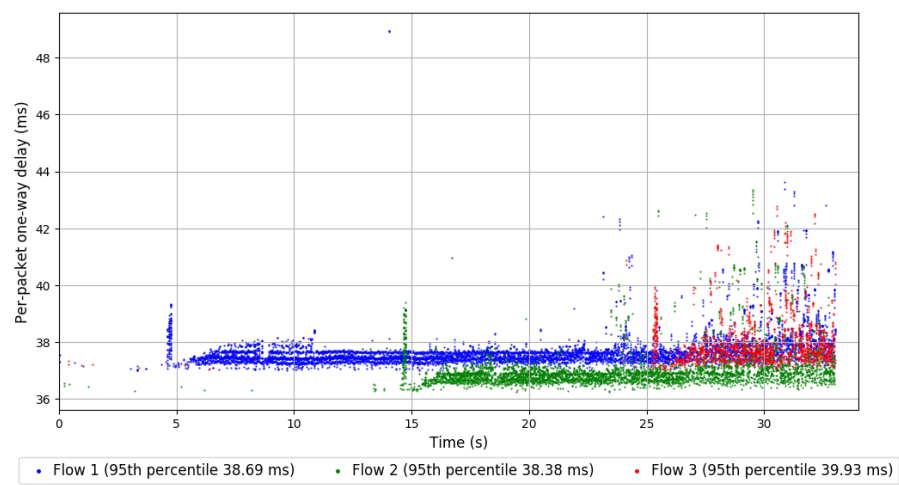
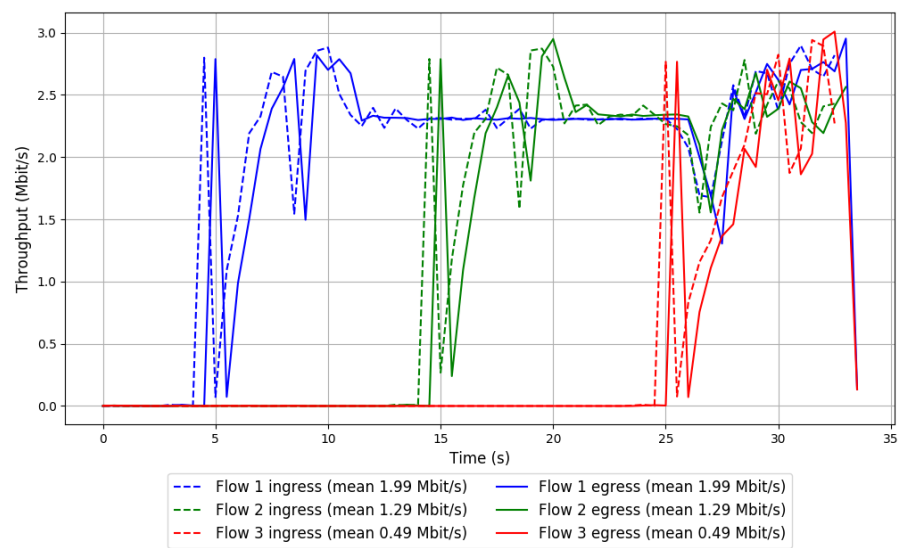
-- Flow 3:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 39.928 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-07-24 15:55:52

End at: 2018-07-24 15:56:22

Local clock offset: -0.406 ms

Remote clock offset: 4.432 ms

Below is generated by plot.py at 2018-07-24 18:39:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.75 Mbit/s

95th percentile per-packet one-way delay: 38.713 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 38.571 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 38.287 ms

Loss rate: 0.00%

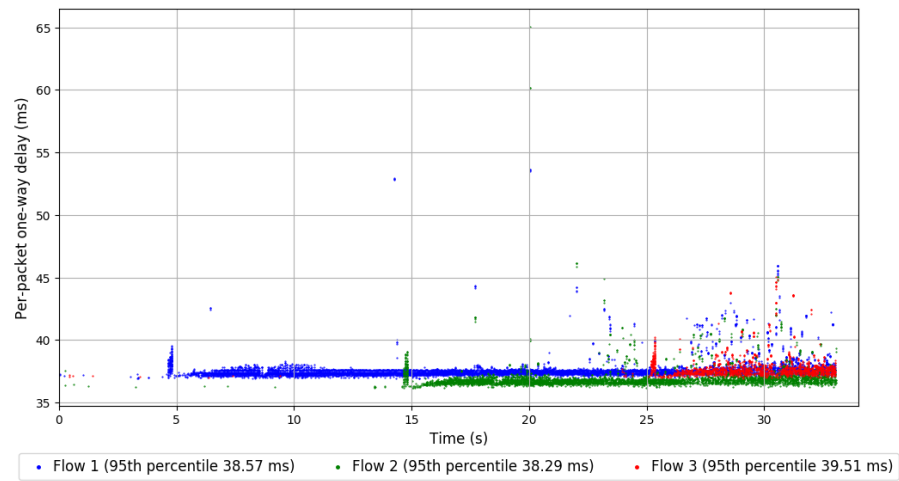
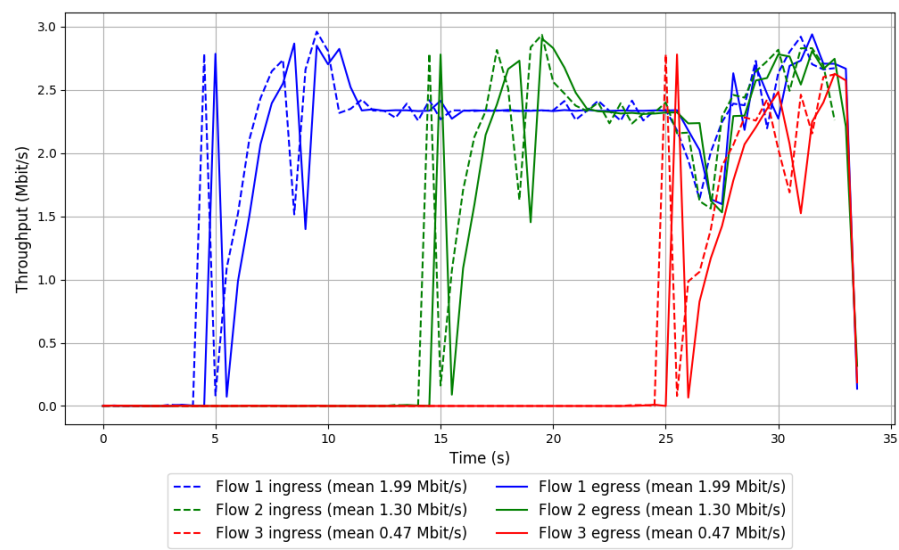
-- Flow 3:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 39.511 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-07-24 16:18:43

End at: 2018-07-24 16:19:13

Local clock offset: 0.72 ms

Remote clock offset: 2.523 ms

Below is generated by plot.py at 2018-07-24 18:39:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.81 Mbit/s

95th percentile per-packet one-way delay: 36.748 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 37.041 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.32 Mbit/s

95th percentile per-packet one-way delay: 36.030 ms

Loss rate: 0.00%

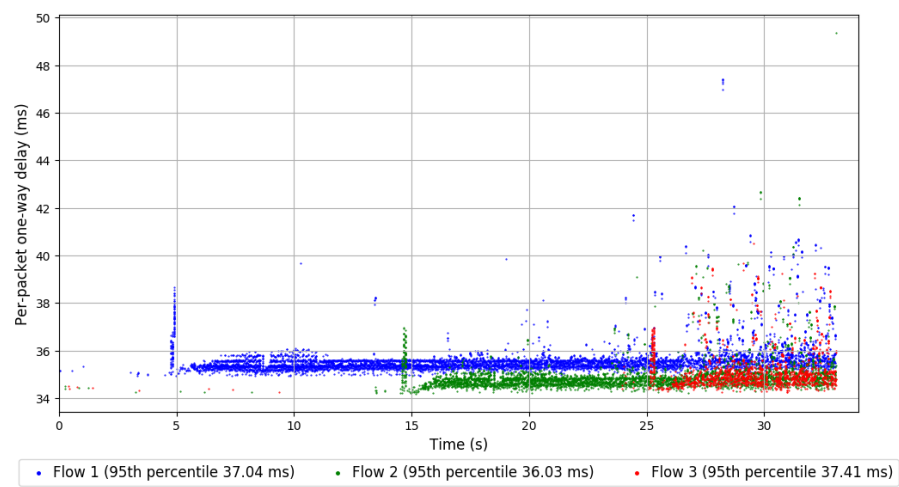
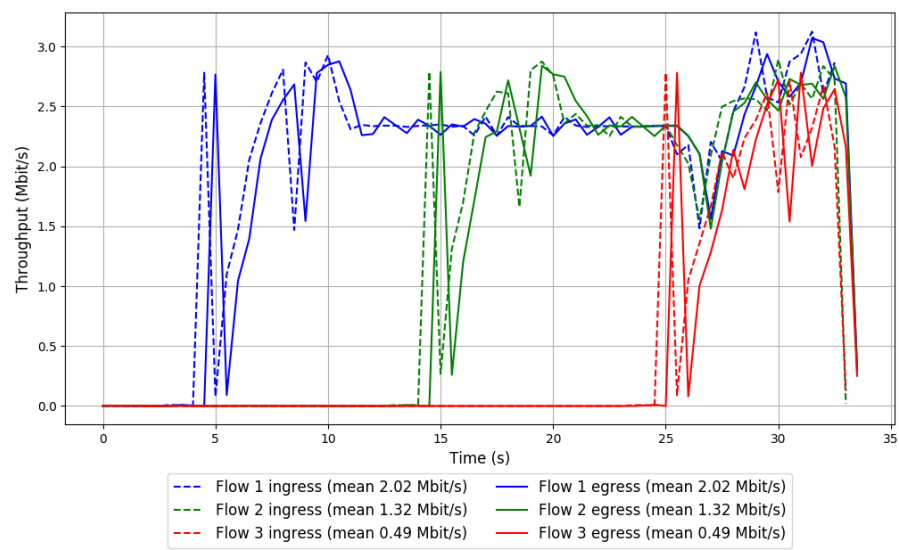
-- Flow 3:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 37.405 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-07-24 16:41:43

End at: 2018-07-24 16:42:13

Local clock offset: 0.91 ms

Remote clock offset: 2.781 ms

Below is generated by plot.py at 2018-07-24 18:39:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.76 Mbit/s

95th percentile per-packet one-way delay: 36.759 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 36.651 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 36.657 ms

Loss rate: 0.00%

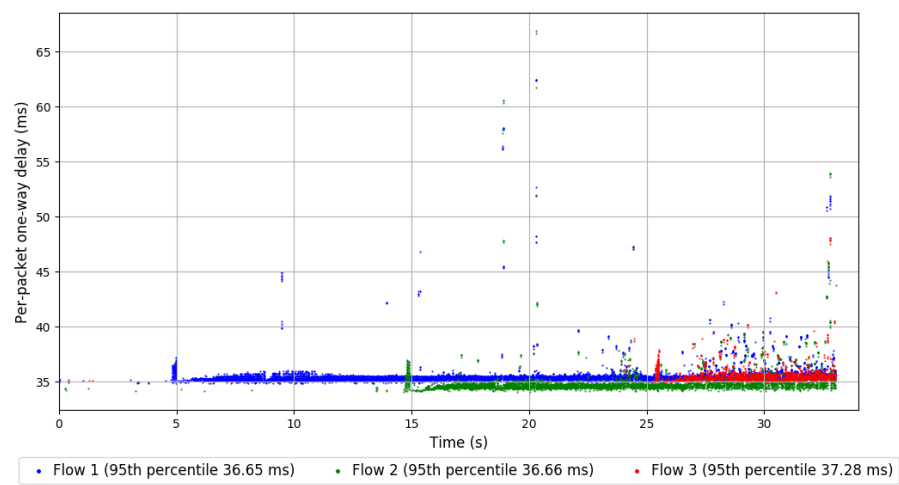
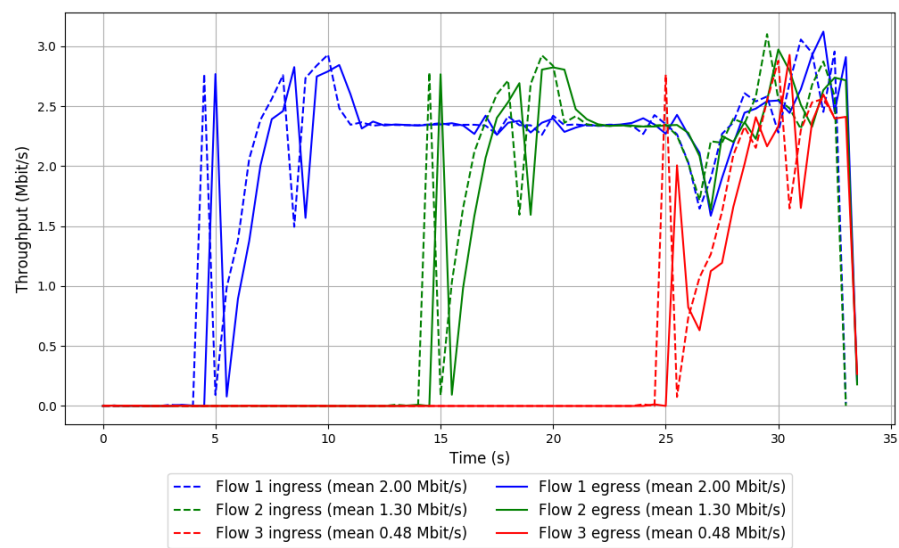
-- Flow 3:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 37.277 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-07-24 17:04:41

End at: 2018-07-24 17:05:11

Local clock offset: 0.794 ms

Remote clock offset: 1.97 ms

Below is generated by plot.py at 2018-07-24 18:39:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.76 Mbit/s

95th percentile per-packet one-way delay: 37.138 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 36.052 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 37.494 ms

Loss rate: 0.00%

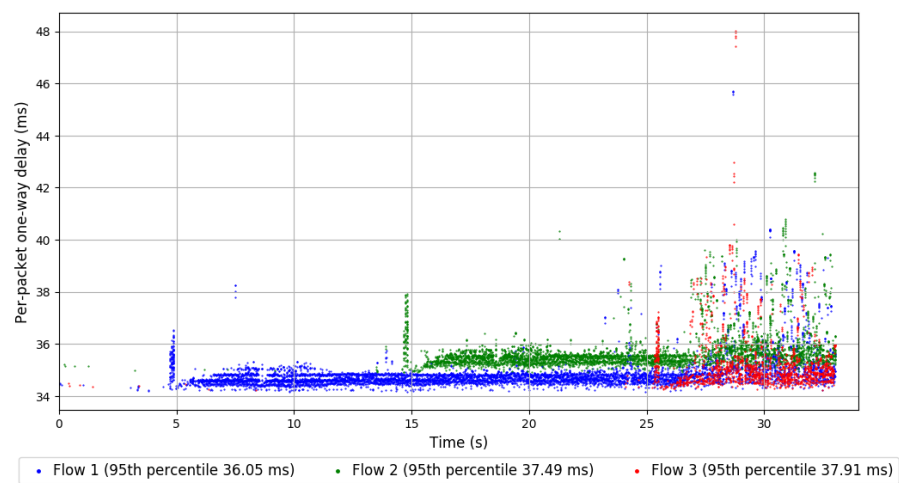
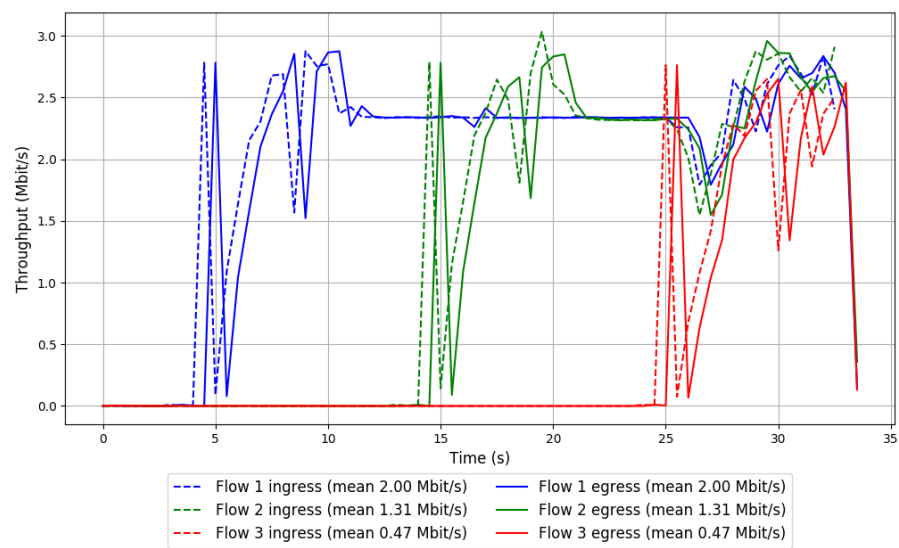
-- Flow 3:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 37.914 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-07-24 17:27:37

End at: 2018-07-24 17:28:07

Local clock offset: 0.158 ms

Remote clock offset: 1.797 ms

Below is generated by plot.py at 2018-07-24 18:39:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.77 Mbit/s

95th percentile per-packet one-way delay: 36.658 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 35.821 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 36.381 ms

Loss rate: 0.00%

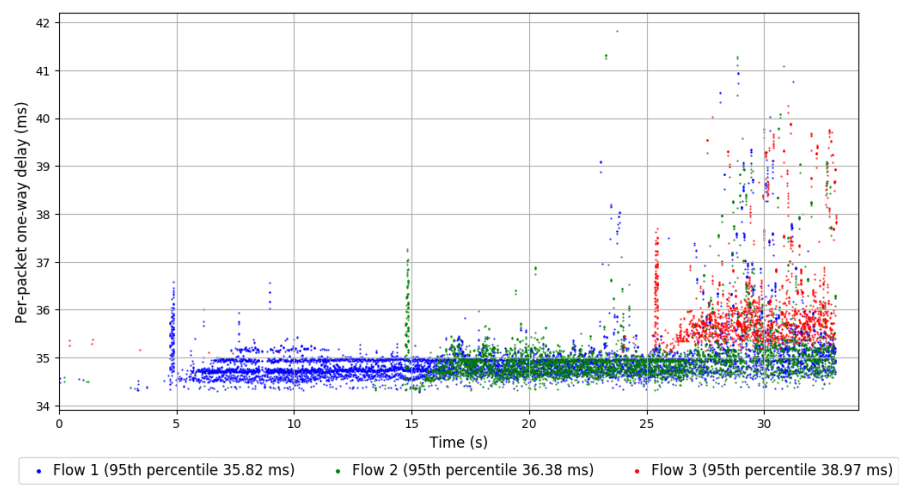
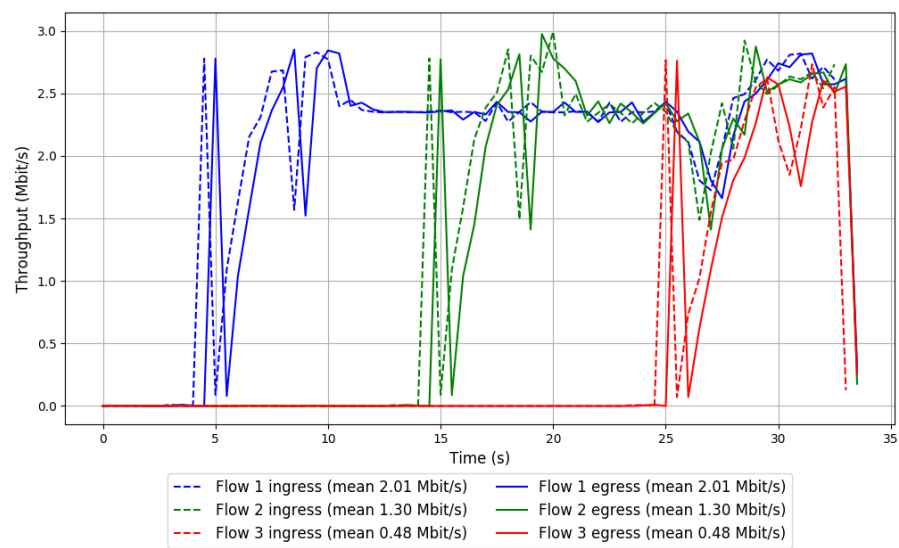
-- Flow 3:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 38.973 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-07-24 17:50:28

End at: 2018-07-24 17:50:58

Local clock offset: 3.557 ms

Remote clock offset: 1.729 ms

Below is generated by plot.py at 2018-07-24 18:39:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.91 Mbit/s

95th percentile per-packet one-way delay: 36.548 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 36.525 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 36.225 ms

Loss rate: 0.10%

-- Flow 3:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 37.535 ms

Loss rate: 0.12%

Run 10: Report of WebRTC media — Data Link

