

Pantheon Report

Generated at 2018-07-11 03:11:05 (UTC).

Data path: Stanford Ethernet (*remote*) → AWS California 1 Ethernet (*local*).

Repeated the test of 17 congestion control schemes 10 times.

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

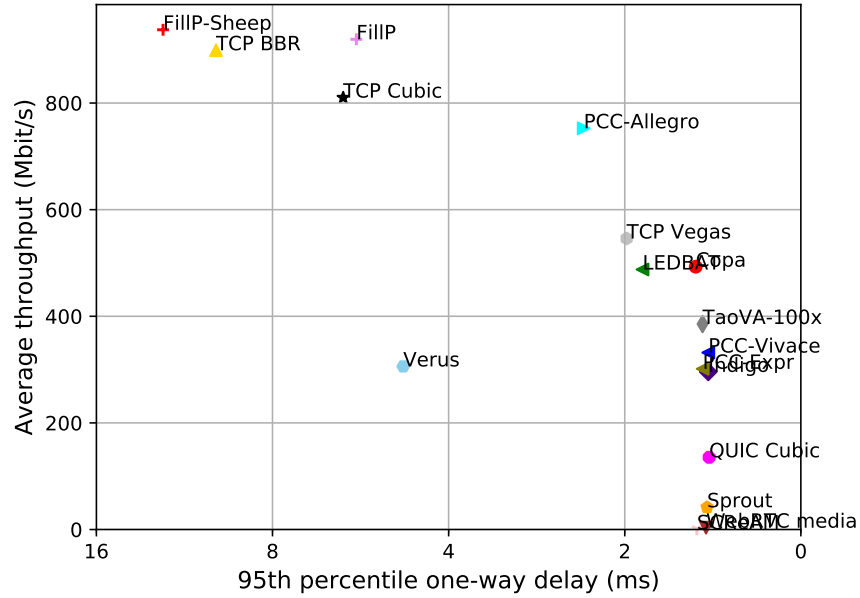
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

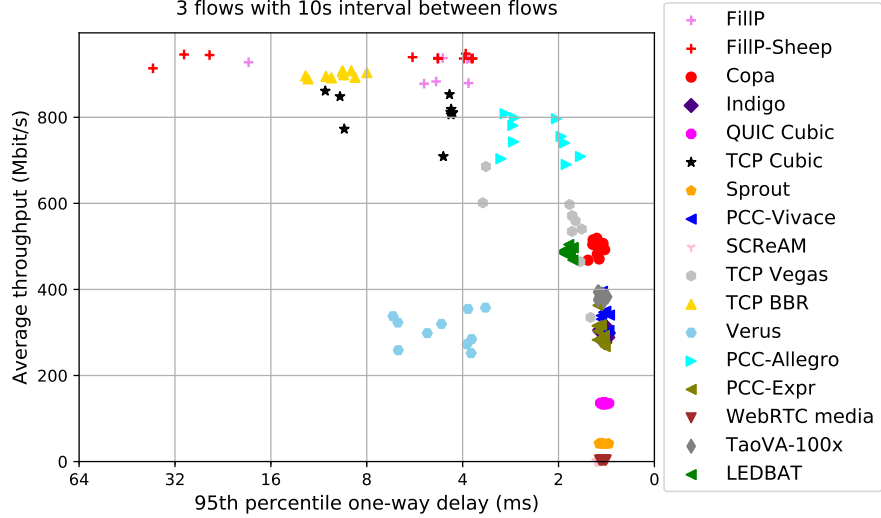
Git summary:

```
branch: master @ 9250dbeec7fb57193cdff1ba8c440b4e16ab30f0
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ 37162fe9af85249aeccac061c93e75640ef710b5
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdfc58e562f4
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 Stanford to AWS California 1, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from Stanford to AWS California 1, 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	529.21	393.64	324.39	10.49	4.43	4.65	0.04	0.10	0.24
Copa	10	293.34	232.57	135.22	1.19	1.21	1.24	0.03	0.05	0.24
TCP Cubic	10	445.00	388.55	320.16	6.49	4.38	4.41	0.05	0.10	0.23
FillP	10	561.93	390.21	296.43	6.85	4.10	4.25	0.17	0.11	0.27
FillP-Sheep	10	568.60	397.13	316.24	15.93	4.32	6.53	0.53	0.15	0.29
Indigo	10	159.22	154.61	102.37	1.04	1.07	1.09	0.05	0.08	0.18
LEDBAT	10	290.95	219.33	152.73	1.70	1.94	1.85	0.04	0.08	0.25
PCC-Allegro	10	596.16	181.56	109.49	2.30	2.17	1.73	0.02	0.10	0.23
PCC-Expr	10	208.12	112.24	56.67	1.11	1.15	1.06	0.03	0.08	0.26
QUIC Cubic	10	74.15	65.07	54.77	1.04	1.04	1.05	0.04	0.09	0.23
SCReAM	10	0.22	0.22	0.22	1.18	1.18	1.18	0.05	0.13	0.28
Sprout	10	20.96	21.01	20.74	1.06	1.06	1.07	0.05	0.07	0.15
TaoVA-100x	10	218.07	192.77	118.02	1.08	1.12	1.33	0.03	0.06	0.22
TCP Vegas	10	237.39	295.57	336.82	1.75	1.85	2.16	0.05	0.09	0.19
Verus	10	182.47	133.92	104.76	5.61	2.73	2.21	0.04	0.12	0.20
PCC-Vivace	10	249.83	91.58	64.39	1.05	1.07	1.05	0.03	0.08	0.20
WebRTC media	10	1.70	1.21	0.53	1.08	1.08	1.08	0.02	0.01	0.20

Run 1: Statistics of TCP BBR

Start at: 2018-07-10 20:33:29

End at: 2018-07-10 20:33:59

Local clock offset: 0.546 ms

Remote clock offset: 0.64 ms

Below is generated by plot.py at 2018-07-11 01:12:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 903.92 Mbit/s

95th percentile per-packet one-way delay: 7.993 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 534.92 Mbit/s

95th percentile per-packet one-way delay: 8.453 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 391.79 Mbit/s

95th percentile per-packet one-way delay: 4.604 ms

Loss rate: 0.11%

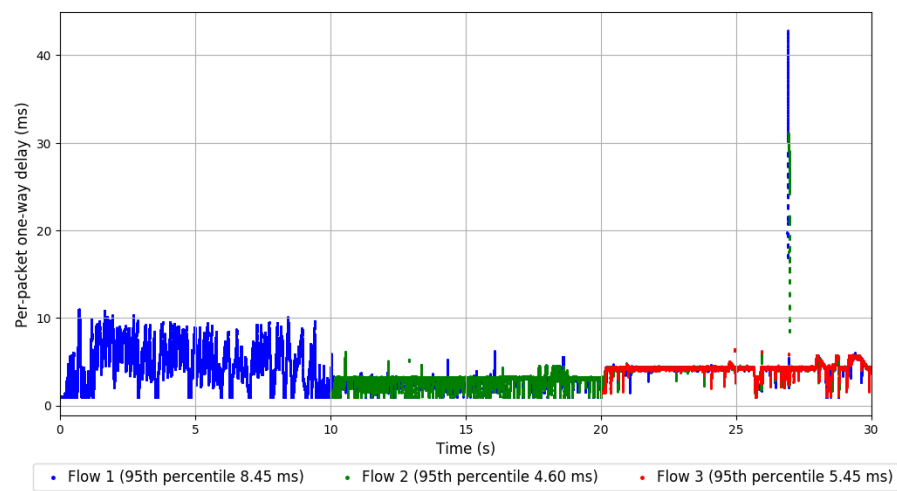
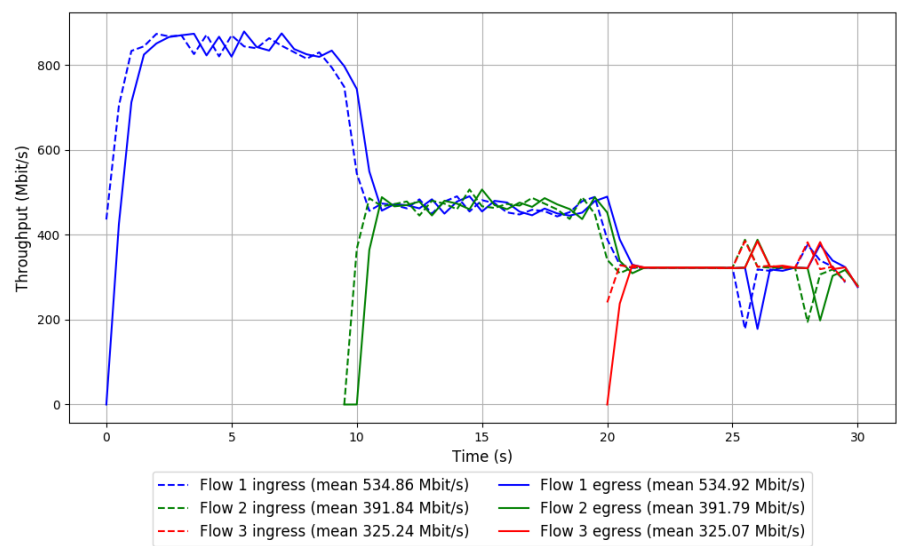
-- Flow 3:

Average throughput: 325.07 Mbit/s

95th percentile per-packet one-way delay: 5.452 ms

Loss rate: 0.25%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-07-10 21:00:26

End at: 2018-07-10 21:00:56

Local clock offset: 0.617 ms

Remote clock offset: 1.397 ms

Below is generated by plot.py at 2018-07-11 01:12:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 895.24 Mbit/s

95th percentile per-packet one-way delay: 10.745 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 529.46 Mbit/s

95th percentile per-packet one-way delay: 11.387 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 387.82 Mbit/s

95th percentile per-packet one-way delay: 4.728 ms

Loss rate: 0.11%

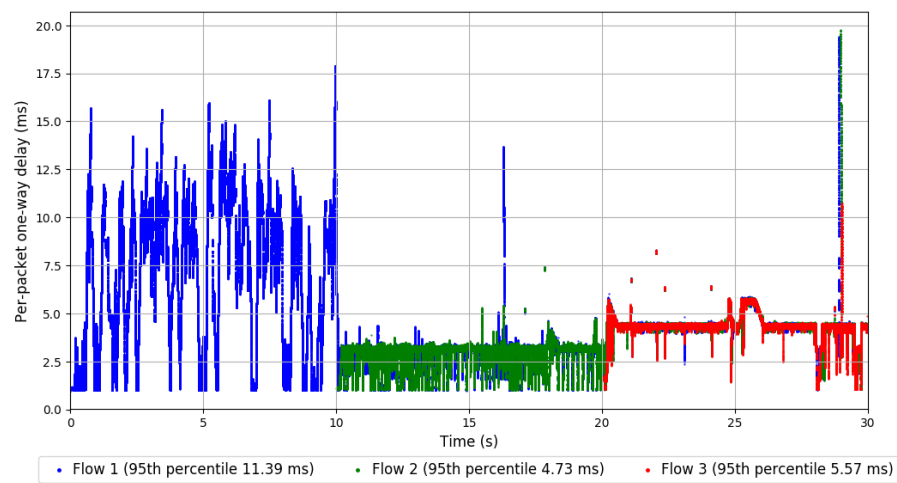
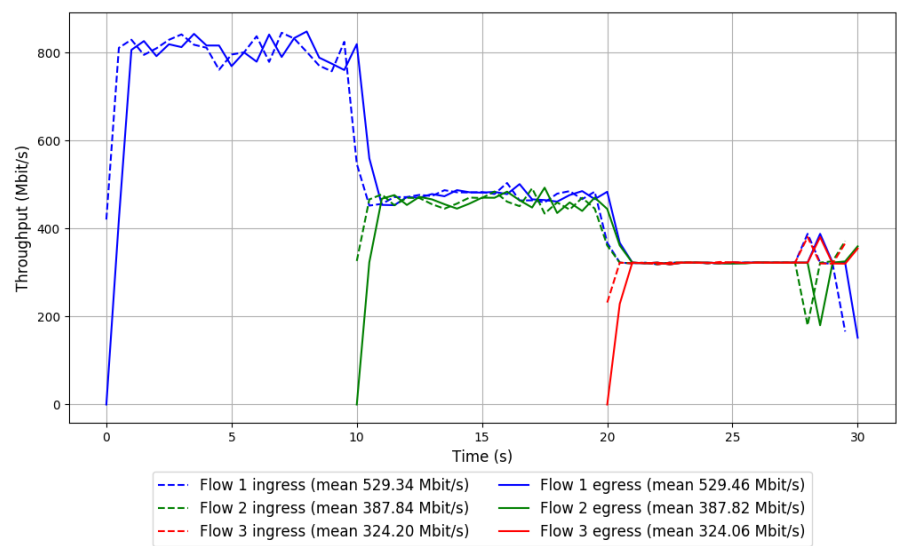
-- Flow 3:

Average throughput: 324.06 Mbit/s

95th percentile per-packet one-way delay: 5.567 ms

Loss rate: 0.25%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-07-10 21:27:14

End at: 2018-07-10 21:27:44

Local clock offset: 0.587 ms

Remote clock offset: 1.978 ms

Below is generated by plot.py at 2018-07-11 01:12:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 892.82 Mbit/s

95th percentile per-packet one-way delay: 8.707 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 524.05 Mbit/s

95th percentile per-packet one-way delay: 9.287 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 392.33 Mbit/s

95th percentile per-packet one-way delay: 4.322 ms

Loss rate: 0.11%

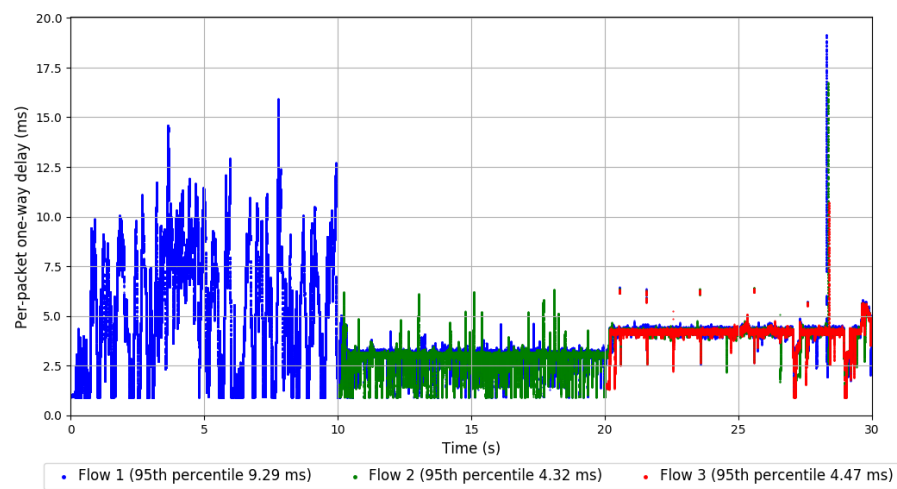
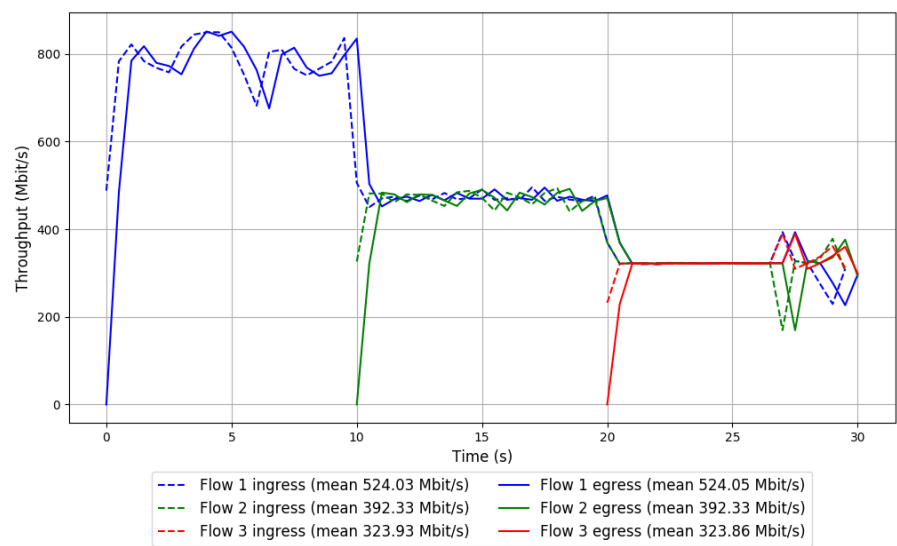
-- Flow 3:

Average throughput: 323.86 Mbit/s

95th percentile per-packet one-way delay: 4.471 ms

Loss rate: 0.24%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-07-10 21:54:19

End at: 2018-07-10 21:54:49

Local clock offset: 0.631 ms

Remote clock offset: 2.344 ms

Below is generated by plot.py at 2018-07-11 01:12:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 908.15 Mbit/s

95th percentile per-packet one-way delay: 8.945 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 538.40 Mbit/s

95th percentile per-packet one-way delay: 9.589 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 393.40 Mbit/s

95th percentile per-packet one-way delay: 4.408 ms

Loss rate: 0.09%

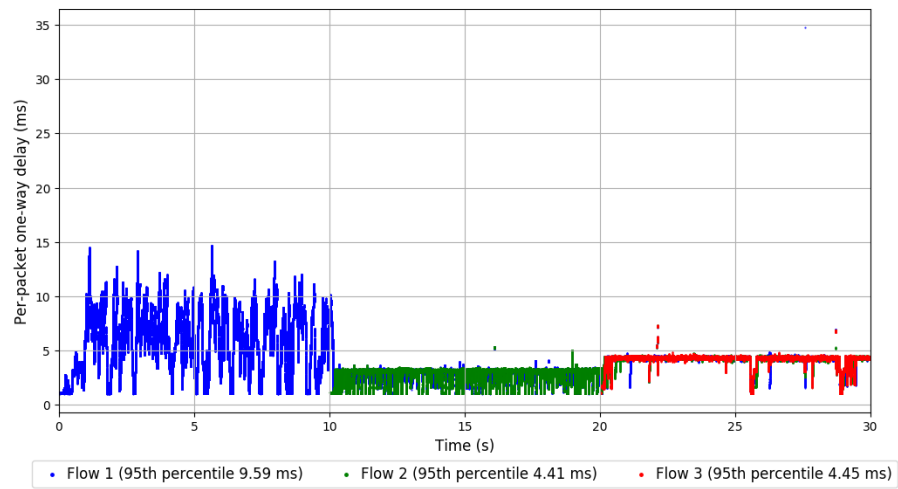
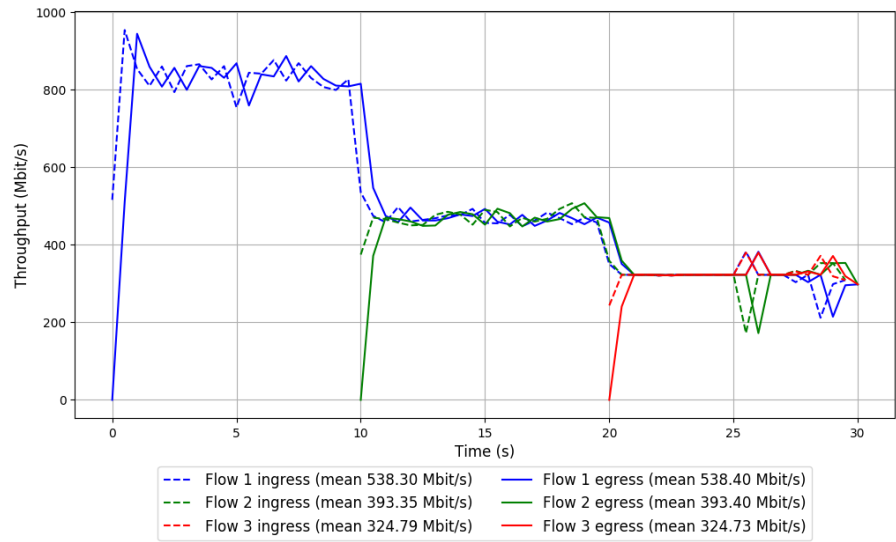
-- Flow 3:

Average throughput: 324.73 Mbit/s

95th percentile per-packet one-way delay: 4.447 ms

Loss rate: 0.22%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-07-10 22:21:16

End at: 2018-07-10 22:21:46

Local clock offset: 0.683 ms

Remote clock offset: 2.227 ms

Below is generated by plot.py at 2018-07-11 01:12:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 896.32 Mbit/s

95th percentile per-packet one-way delay: 12.449 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 524.51 Mbit/s

95th percentile per-packet one-way delay: 13.098 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 396.00 Mbit/s

95th percentile per-packet one-way delay: 4.335 ms

Loss rate: 0.10%

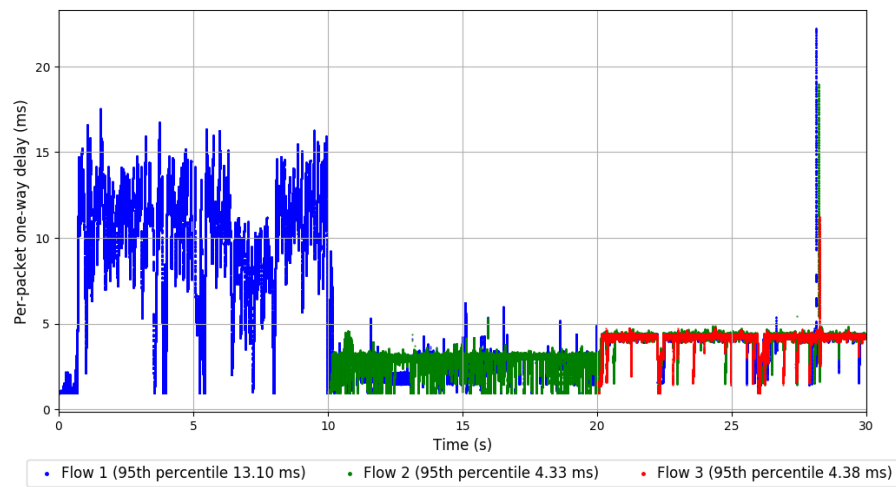
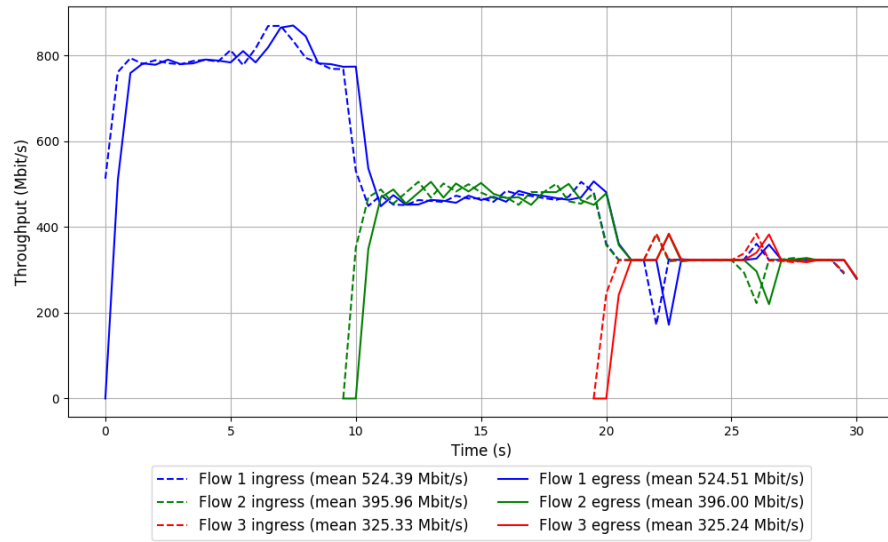
-- Flow 3:

Average throughput: 325.24 Mbit/s

95th percentile per-packet one-way delay: 4.379 ms

Loss rate: 0.23%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-07-10 22:48:16

End at: 2018-07-10 22:48:46

Local clock offset: 0.873 ms

Remote clock offset: 2.067 ms

Below is generated by plot.py at 2018-07-11 01:12:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 908.31 Mbit/s

95th percentile per-packet one-way delay: 9.536 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 539.67 Mbit/s

95th percentile per-packet one-way delay: 9.980 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 391.47 Mbit/s

95th percentile per-packet one-way delay: 4.414 ms

Loss rate: 0.09%

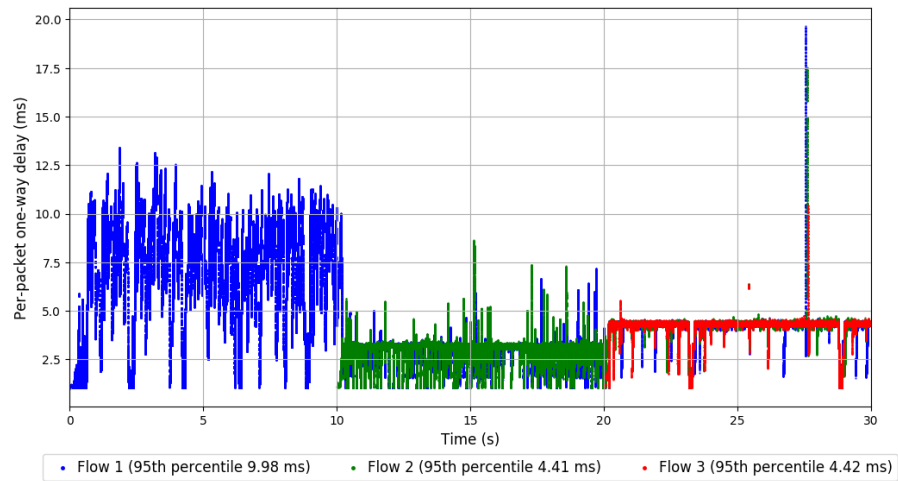
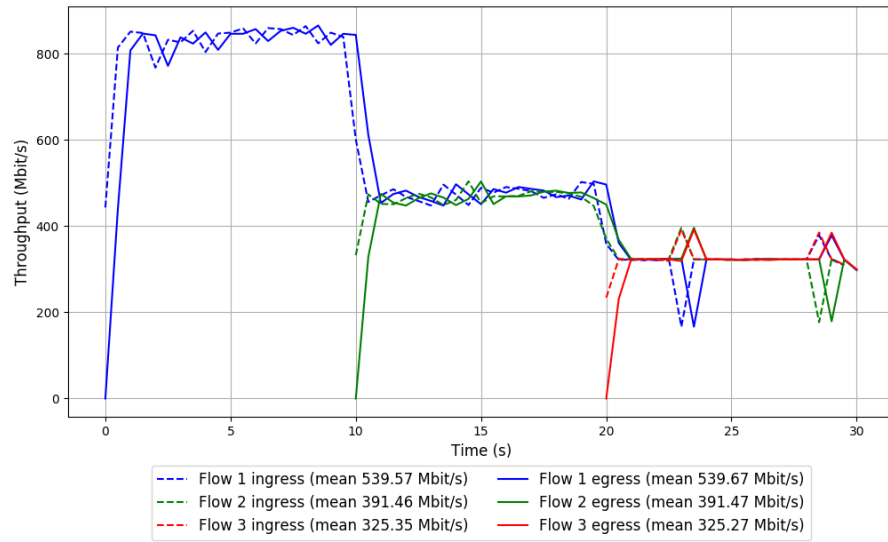
-- Flow 3:

Average throughput: 325.27 Mbit/s

95th percentile per-packet one-way delay: 4.422 ms

Loss rate: 0.22%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-07-10 23:15:13

End at: 2018-07-10 23:15:43

Local clock offset: 0.563 ms

Remote clock offset: 1.782 ms

Below is generated by plot.py at 2018-07-11 01:12:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 905.89 Mbit/s

95th percentile per-packet one-way delay: 9.522 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 532.84 Mbit/s

95th percentile per-packet one-way delay: 9.962 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 398.39 Mbit/s

95th percentile per-packet one-way delay: 4.322 ms

Loss rate: 0.09%

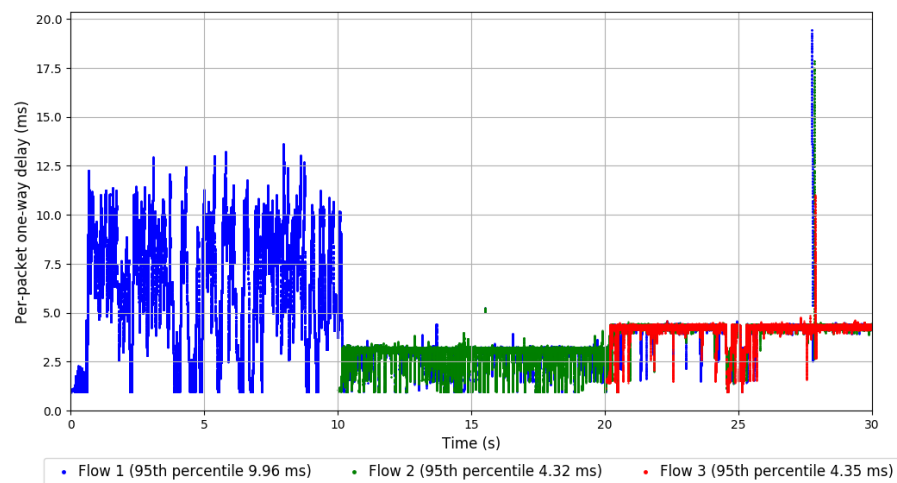
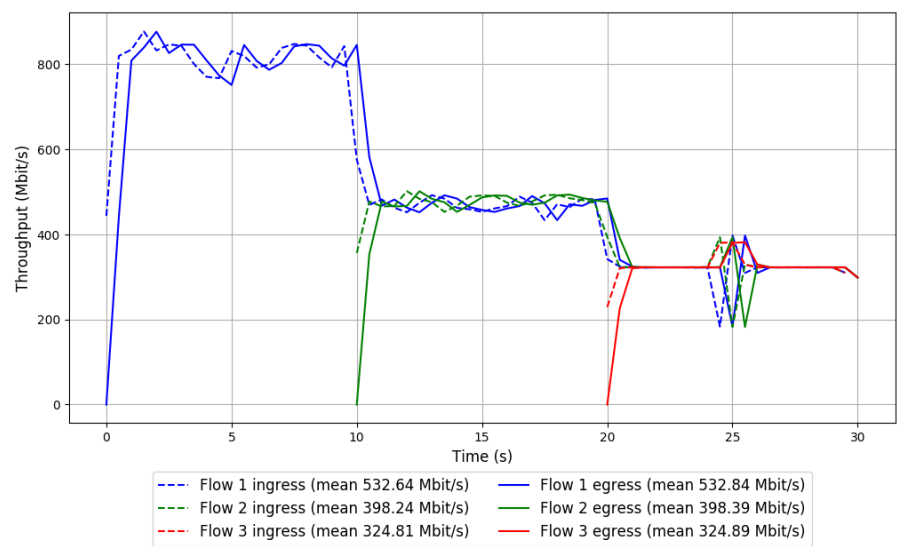
-- Flow 3:

Average throughput: 324.89 Mbit/s

95th percentile per-packet one-way delay: 4.349 ms

Loss rate: 0.22%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-07-10 23:41:56

End at: 2018-07-10 23:42:26

Local clock offset: 0.558 ms

Remote clock offset: 1.68 ms

Below is generated by plot.py at 2018-07-11 01:12:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 889.19 Mbit/s

95th percentile per-packet one-way delay: 12.228 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 518.24 Mbit/s

95th percentile per-packet one-way delay: 12.485 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 395.54 Mbit/s

95th percentile per-packet one-way delay: 4.447 ms

Loss rate: 0.09%

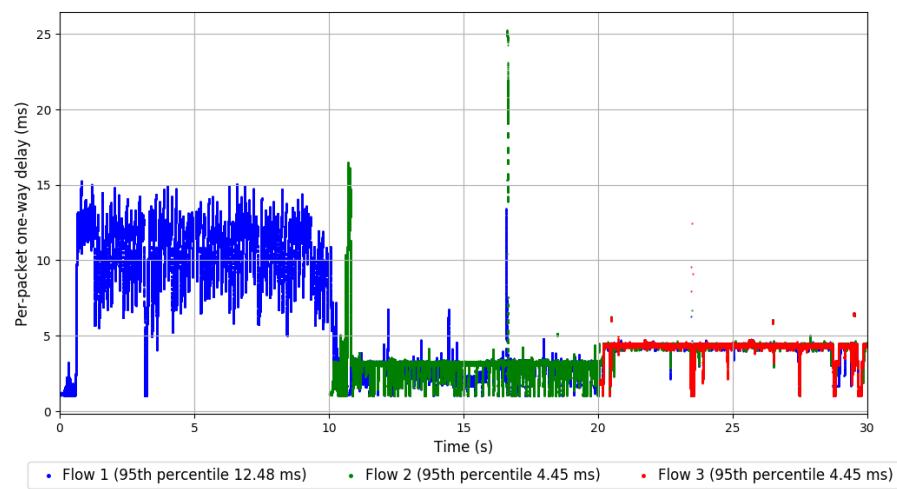
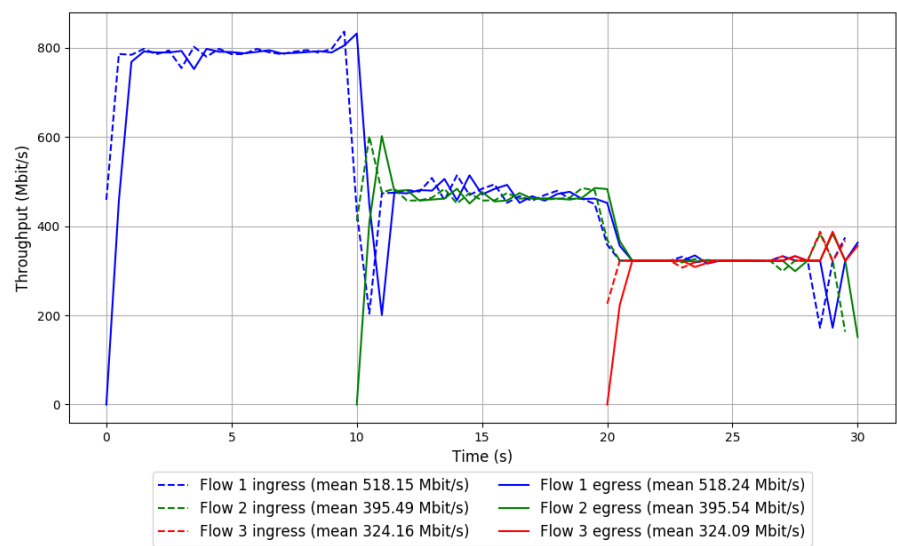
-- Flow 3:

Average throughput: 324.09 Mbit/s

95th percentile per-packet one-way delay: 4.454 ms

Loss rate: 0.22%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-07-11 00:08:51

End at: 2018-07-11 00:09:21

Local clock offset: 0.711 ms

Remote clock offset: 1.711 ms

Below is generated by plot.py at 2018-07-11 01:21:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 891.66 Mbit/s

95th percentile per-packet one-way delay: 10.328 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 520.36 Mbit/s

95th percentile per-packet one-way delay: 10.787 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 396.67 Mbit/s

95th percentile per-packet one-way delay: 4.342 ms

Loss rate: 0.10%

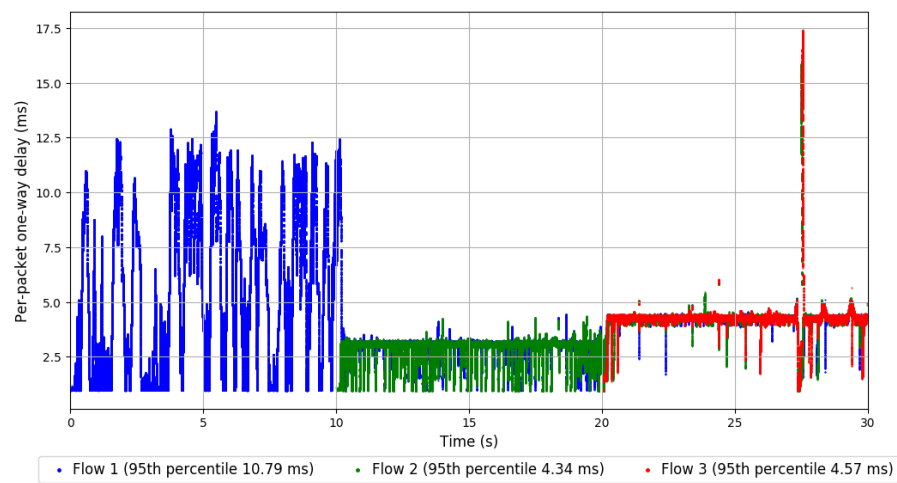
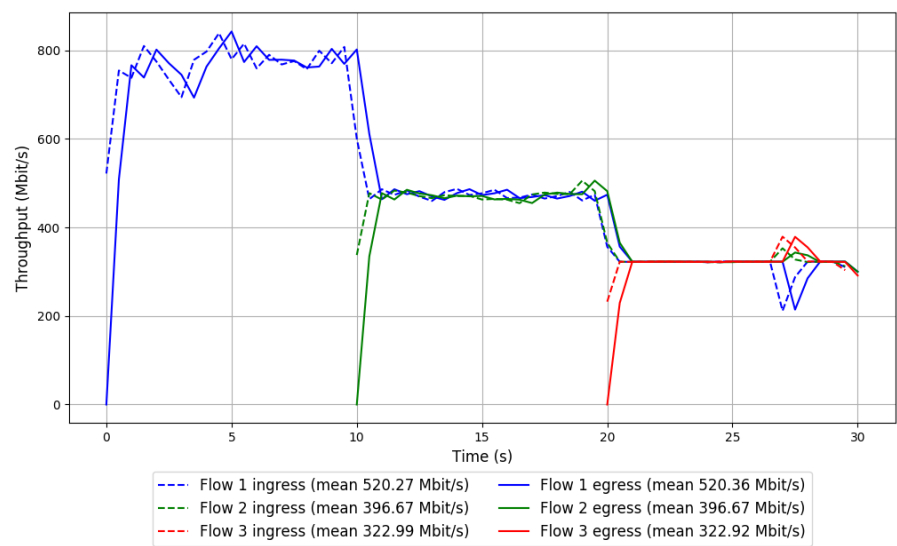
-- Flow 3:

Average throughput: 322.92 Mbit/s

95th percentile per-packet one-way delay: 4.568 ms

Loss rate: 0.23%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-07-11 00:35:47

End at: 2018-07-11 00:36:17

Local clock offset: 0.721 ms

Remote clock offset: 1.364 ms

Below is generated by plot.py at 2018-07-11 01:22:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 898.80 Mbit/s

95th percentile per-packet one-way delay: 9.447 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 529.67 Mbit/s

95th percentile per-packet one-way delay: 9.868 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 392.99 Mbit/s

95th percentile per-packet one-way delay: 4.360 ms

Loss rate: 0.13%

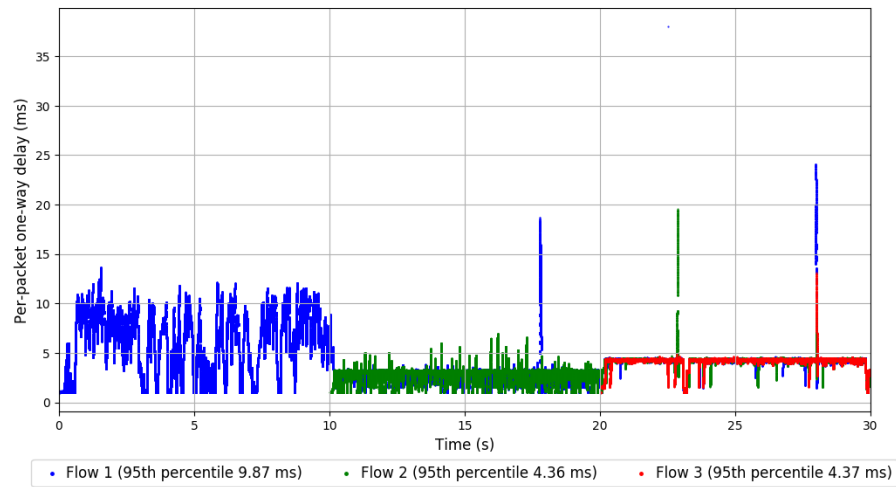
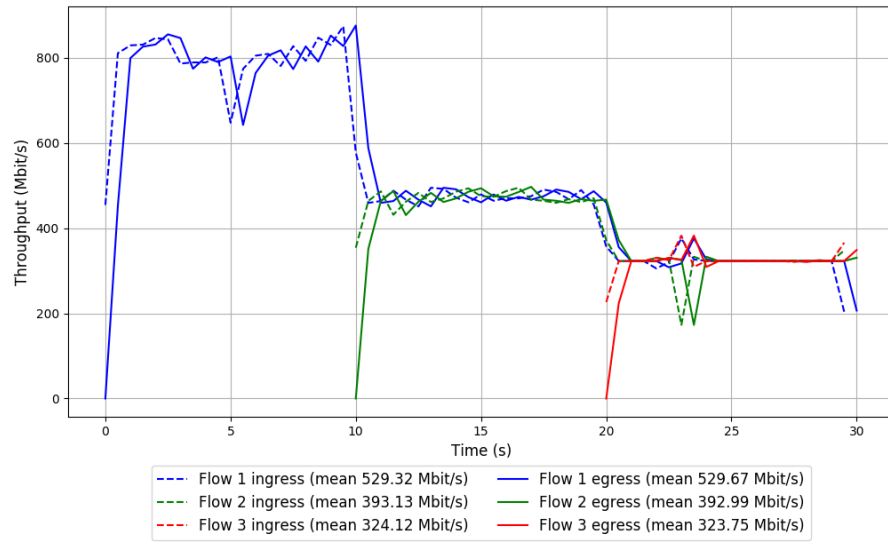
-- Flow 3:

Average throughput: 323.75 Mbit/s

95th percentile per-packet one-way delay: 4.372 ms

Loss rate: 0.31%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-07-10 20:36:57

End at: 2018-07-10 20:37:27

Local clock offset: 0.596 ms

Remote clock offset: 0.769 ms

Below is generated by plot.py at 2018-07-11 01:22:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 504.69 Mbit/s

95th percentile per-packet one-way delay: 1.286 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 292.76 Mbit/s

95th percentile per-packet one-way delay: 1.242 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 241.09 Mbit/s

95th percentile per-packet one-way delay: 1.364 ms

Loss rate: 0.04%

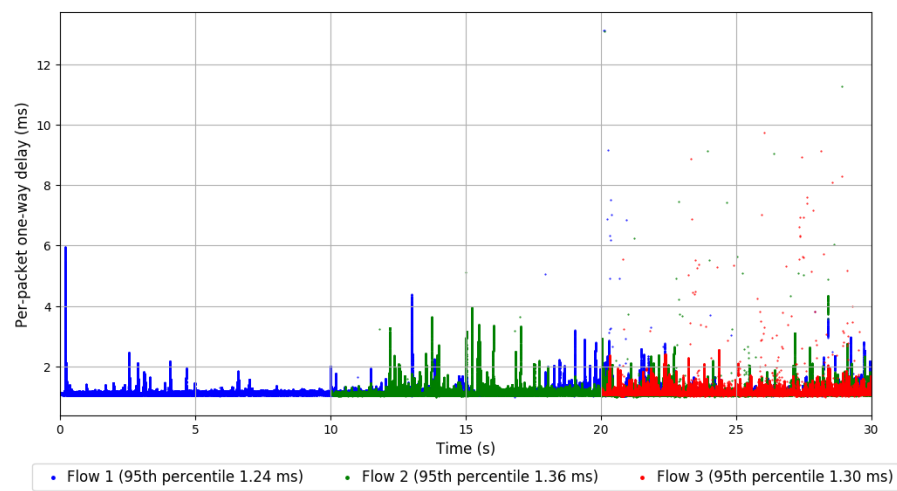
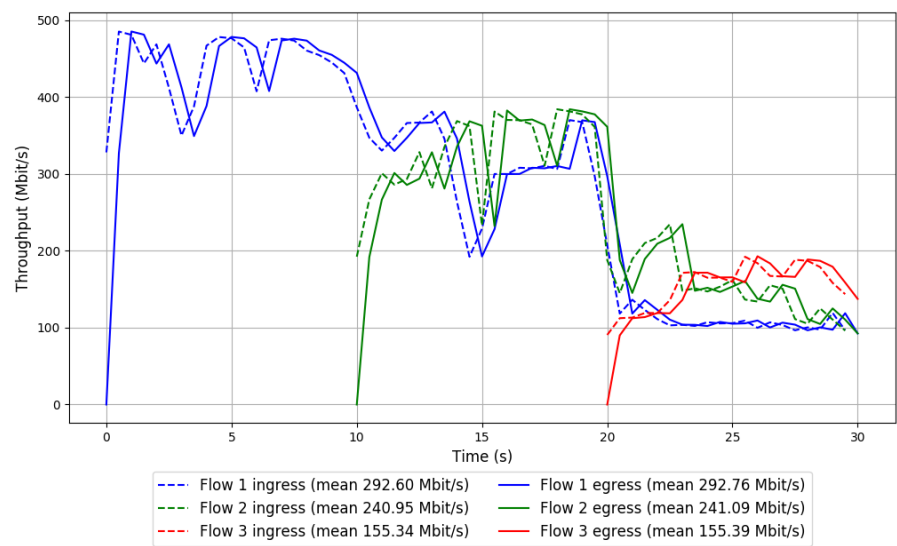
-- Flow 3:

Average throughput: 155.39 Mbit/s

95th percentile per-packet one-way delay: 1.304 ms

Loss rate: 0.20%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-07-10 21:03:51

End at: 2018-07-10 21:04:21

Local clock offset: 0.642 ms

Remote clock offset: 1.462 ms

Below is generated by plot.py at 2018-07-11 01:22:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 482.31 Mbit/s

95th percentile per-packet one-way delay: 1.191 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 293.52 Mbit/s

95th percentile per-packet one-way delay: 1.186 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 226.64 Mbit/s

95th percentile per-packet one-way delay: 1.181 ms

Loss rate: 0.12%

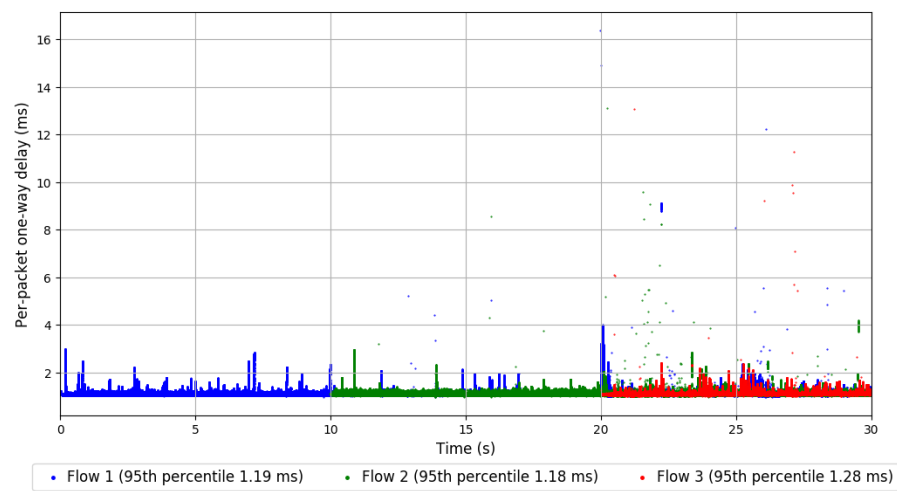
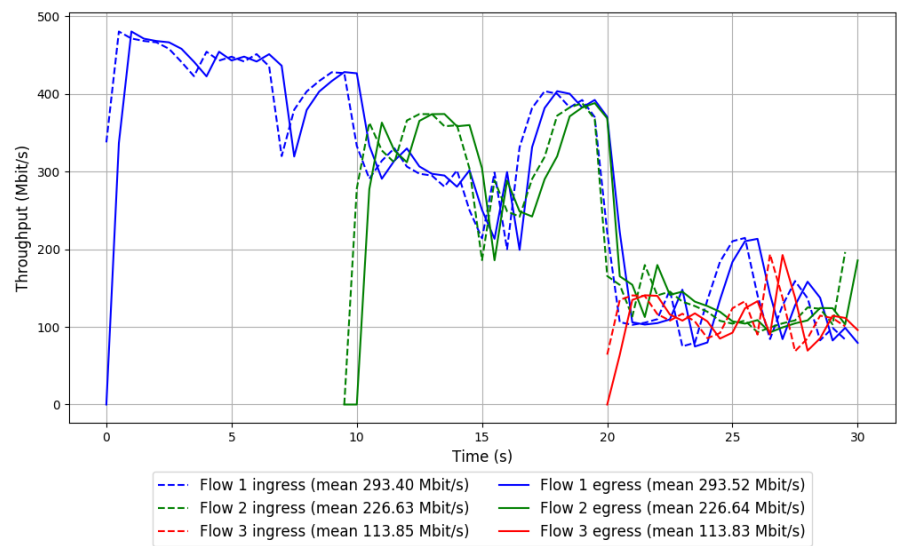
-- Flow 3:

Average throughput: 113.83 Mbit/s

95th percentile per-packet one-way delay: 1.282 ms

Loss rate: 0.21%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-07-10 21:30:40

End at: 2018-07-10 21:31:10

Local clock offset: 0.659 ms

Remote clock offset: 1.973 ms

Below is generated by plot.py at 2018-07-11 01:22:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 515.16 Mbit/s

95th percentile per-packet one-way delay: 1.279 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 304.75 Mbit/s

95th percentile per-packet one-way delay: 1.371 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 244.39 Mbit/s

95th percentile per-packet one-way delay: 1.184 ms

Loss rate: 0.05%

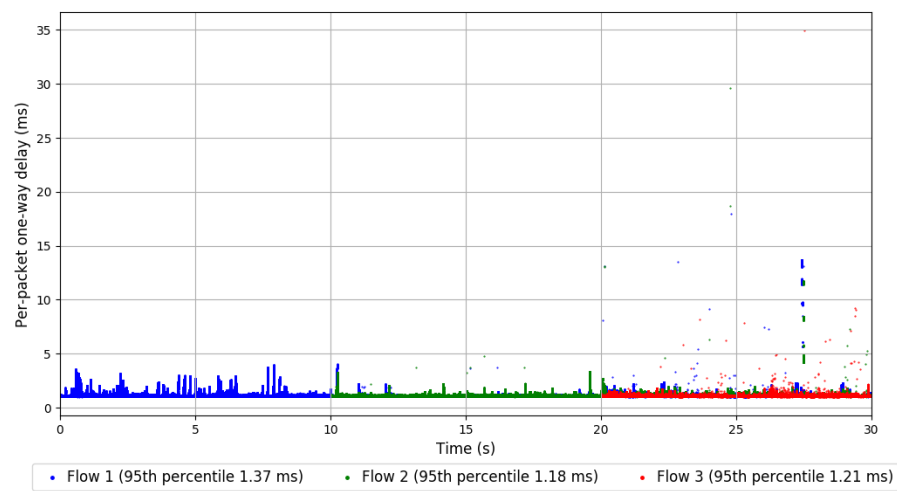
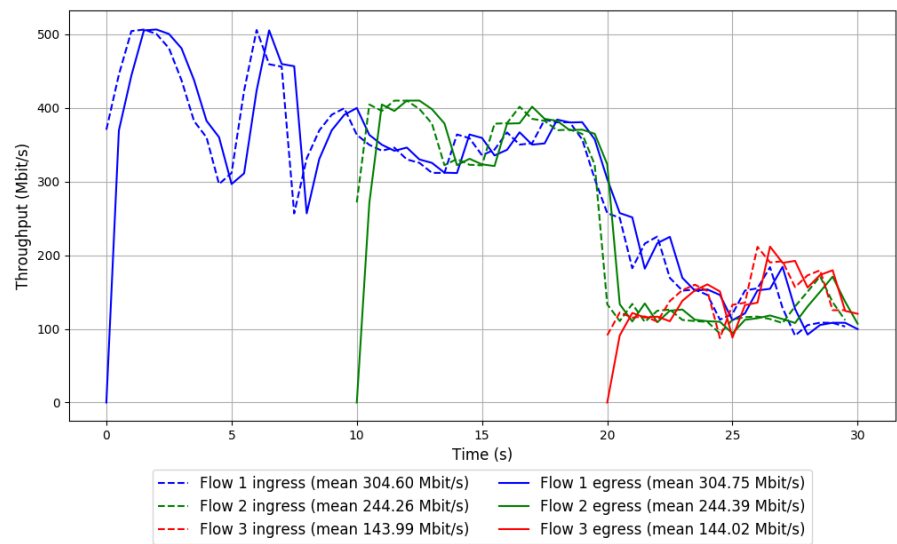
-- Flow 3:

Average throughput: 144.02 Mbit/s

95th percentile per-packet one-way delay: 1.206 ms

Loss rate: 0.21%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-07-10 21:57:44

End at: 2018-07-10 21:58:14

Local clock offset: 0.541 ms

Remote clock offset: 2.335 ms

Below is generated by plot.py at 2018-07-11 01:22:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 506.80 Mbit/s

95th percentile per-packet one-way delay: 1.072 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 316.61 Mbit/s

95th percentile per-packet one-way delay: 1.075 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 233.26 Mbit/s

95th percentile per-packet one-way delay: 1.050 ms

Loss rate: 0.06%

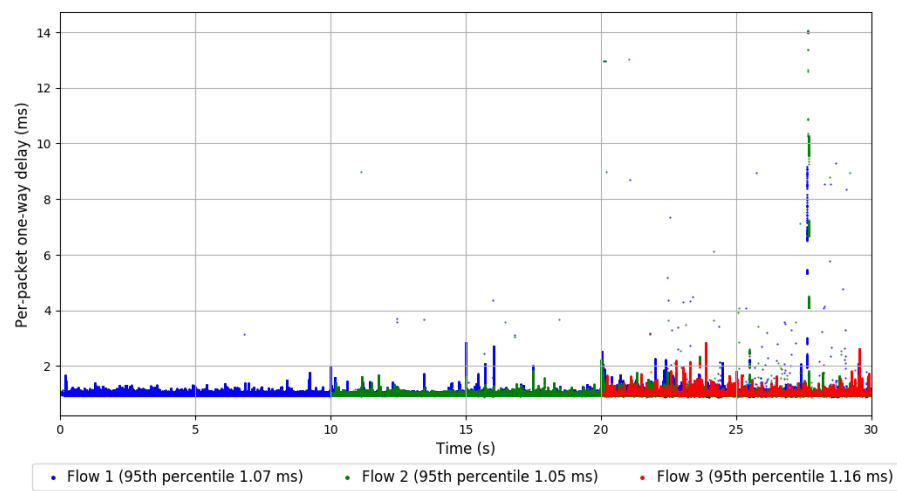
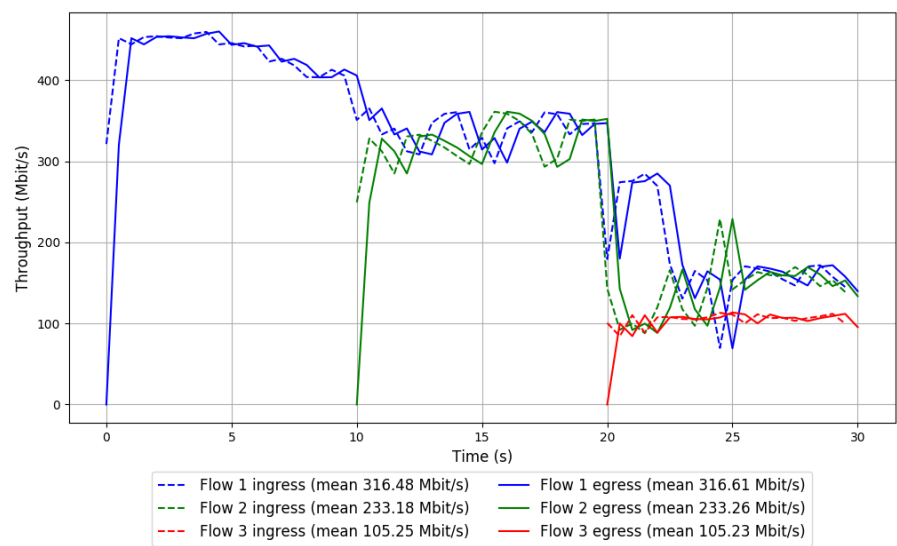
-- Flow 3:

Average throughput: 105.23 Mbit/s

95th percentile per-packet one-way delay: 1.157 ms

Loss rate: 0.21%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-07-10 22:24:42

End at: 2018-07-10 22:25:12

Local clock offset: 0.721 ms

Remote clock offset: 2.264 ms

Below is generated by plot.py at 2018-07-11 01:22:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 492.40 Mbit/s

95th percentile per-packet one-way delay: 1.038 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 294.33 Mbit/s

95th percentile per-packet one-way delay: 1.029 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 220.70 Mbit/s

95th percentile per-packet one-way delay: 1.029 ms

Loss rate: 0.02%

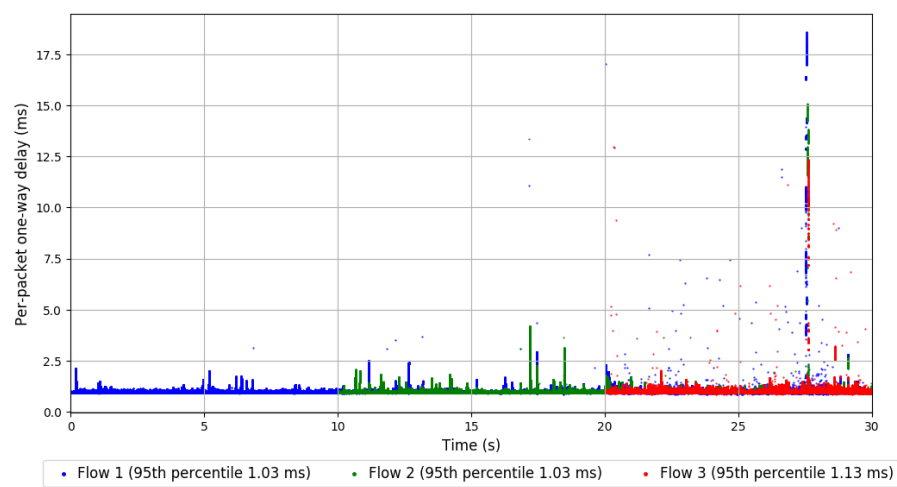
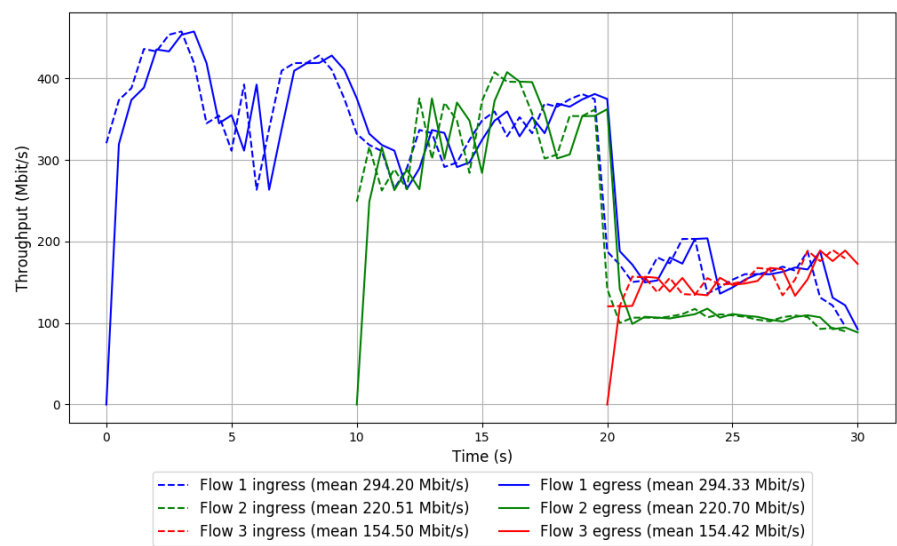
-- Flow 3:

Average throughput: 154.42 Mbit/s

95th percentile per-packet one-way delay: 1.128 ms

Loss rate: 0.24%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-07-10 22:51:44

End at: 2018-07-10 22:52:14

Local clock offset: 0.841 ms

Remote clock offset: 2.034 ms

Below is generated by plot.py at 2018-07-11 01:22:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 467.86 Mbit/s

95th percentile per-packet one-way delay: 1.386 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 271.48 Mbit/s

95th percentile per-packet one-way delay: 1.288 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 228.82 Mbit/s

95th percentile per-packet one-way delay: 1.784 ms

Loss rate: 0.05%

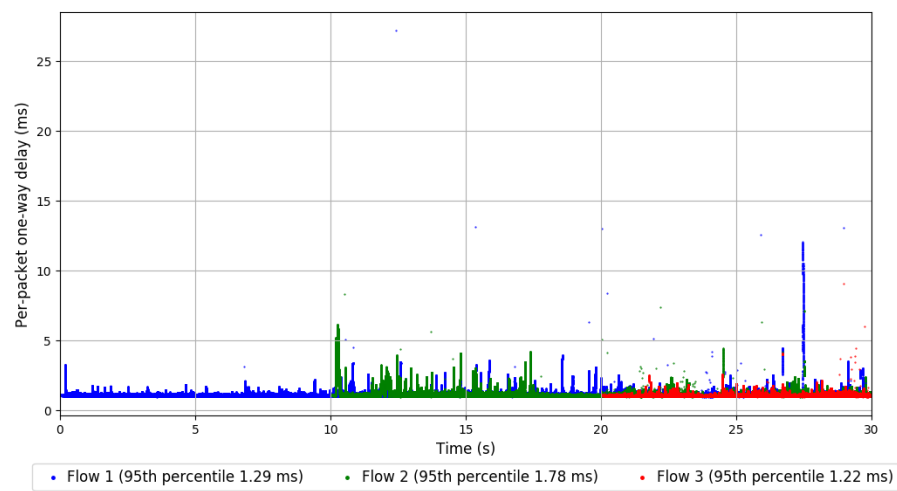
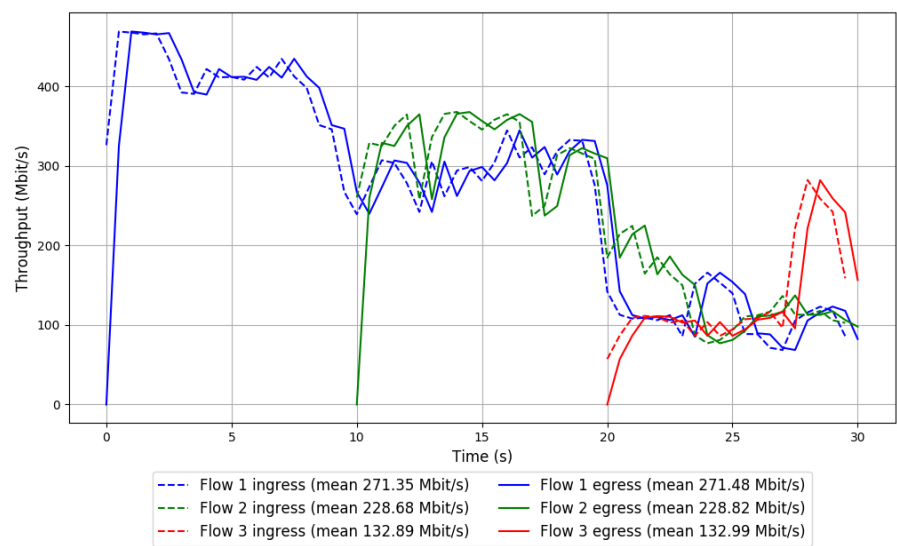
-- Flow 3:

Average throughput: 132.99 Mbit/s

95th percentile per-packet one-way delay: 1.218 ms

Loss rate: 0.12%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

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

End at: 2018-07-10 23:19:08

Local clock offset: 0.614 ms

Remote clock offset: 1.777 ms

Below is generated by plot.py at 2018-07-11 01:31:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 470.71 Mbit/s

95th percentile per-packet one-way delay: 1.154 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 279.37 Mbit/s

95th percentile per-packet one-way delay: 1.157 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 212.40 Mbit/s

95th percentile per-packet one-way delay: 1.122 ms

Loss rate: 0.07%

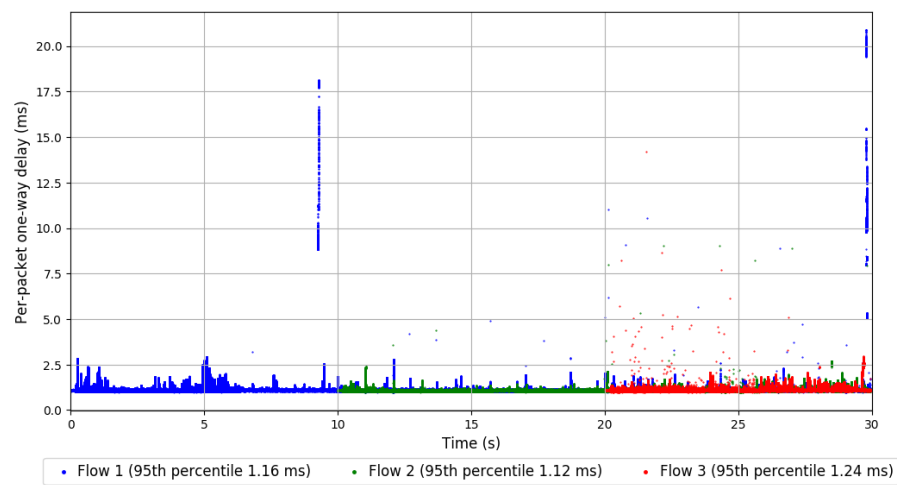
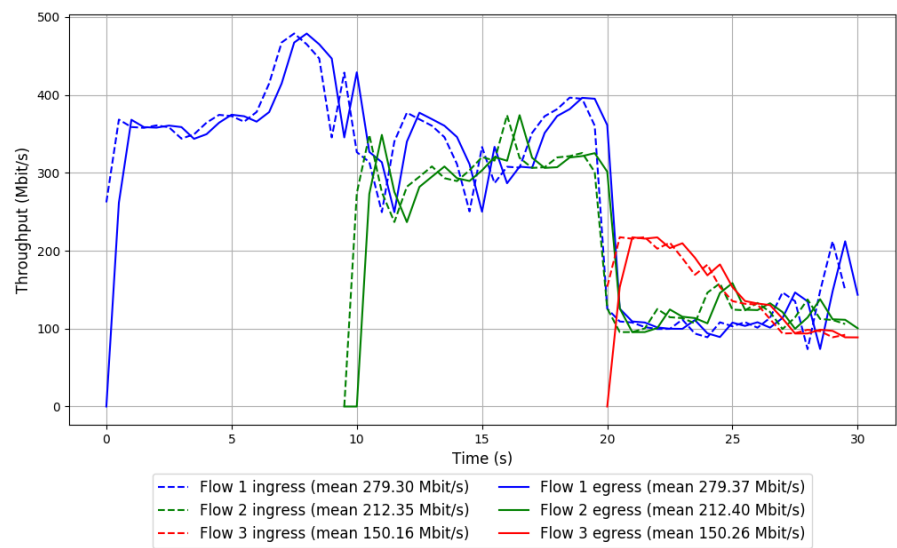
-- Flow 3:

Average throughput: 150.26 Mbit/s

95th percentile per-packet one-way delay: 1.235 ms

Loss rate: 0.11%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-07-10 23:45:21

End at: 2018-07-10 23:45:51

Local clock offset: 0.581 ms

Remote clock offset: 1.698 ms

Below is generated by plot.py at 2018-07-11 01:32:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 487.50 Mbit/s

95th percentile per-packet one-way delay: 1.160 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 280.57 Mbit/s

95th percentile per-packet one-way delay: 1.159 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 238.45 Mbit/s

95th percentile per-packet one-way delay: 1.122 ms

Loss rate: 0.05%

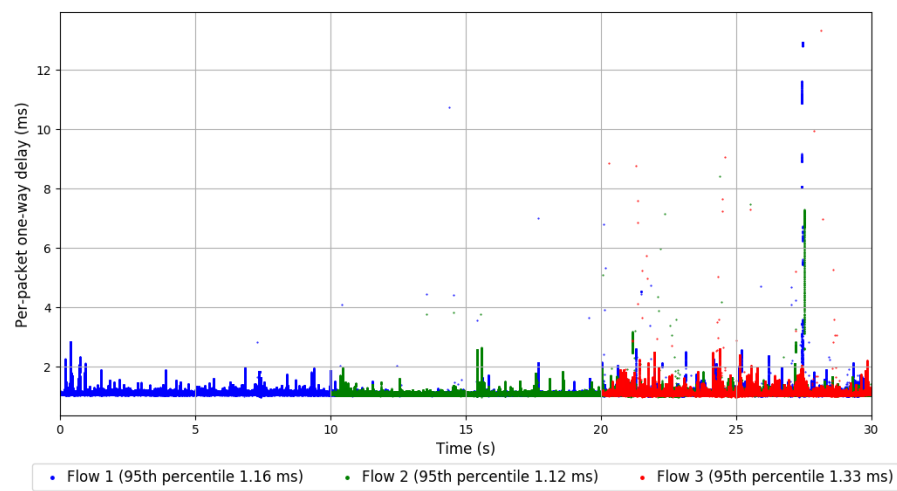
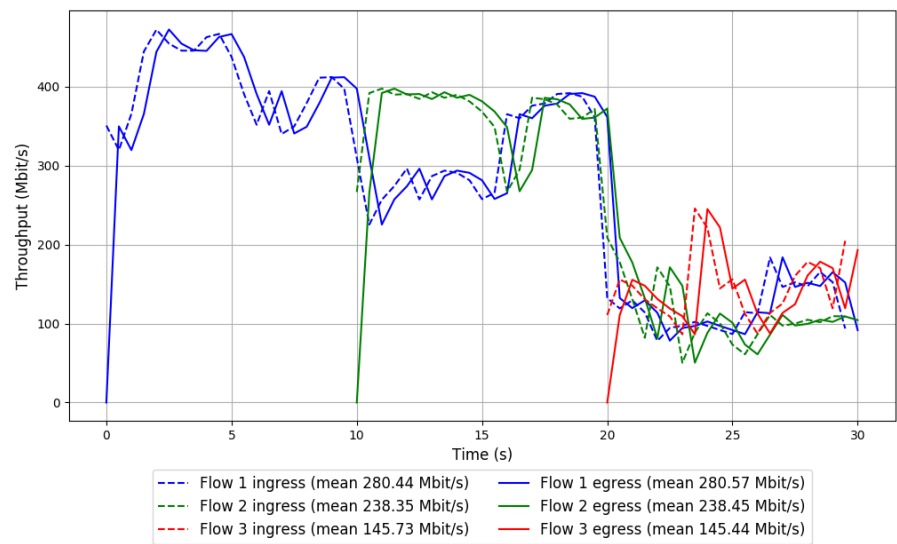
-- Flow 3:

Average throughput: 145.44 Mbit/s

95th percentile per-packet one-way delay: 1.330 ms

Loss rate: 0.41%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-07-11 00:12:18

End at: 2018-07-11 00:12:48

Local clock offset: 0.748 ms

Remote clock offset: 1.636 ms

Below is generated by plot.py at 2018-07-11 01:32:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 483.87 Mbit/s

95th percentile per-packet one-way delay: 1.174 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 291.40 Mbit/s

95th percentile per-packet one-way delay: 1.175 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 226.58 Mbit/s

95th percentile per-packet one-way delay: 1.135 ms

Loss rate: 0.01%

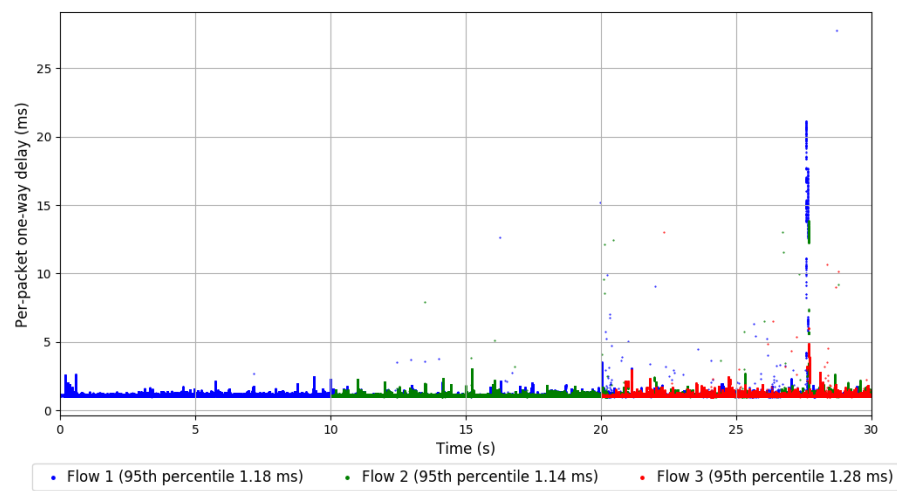
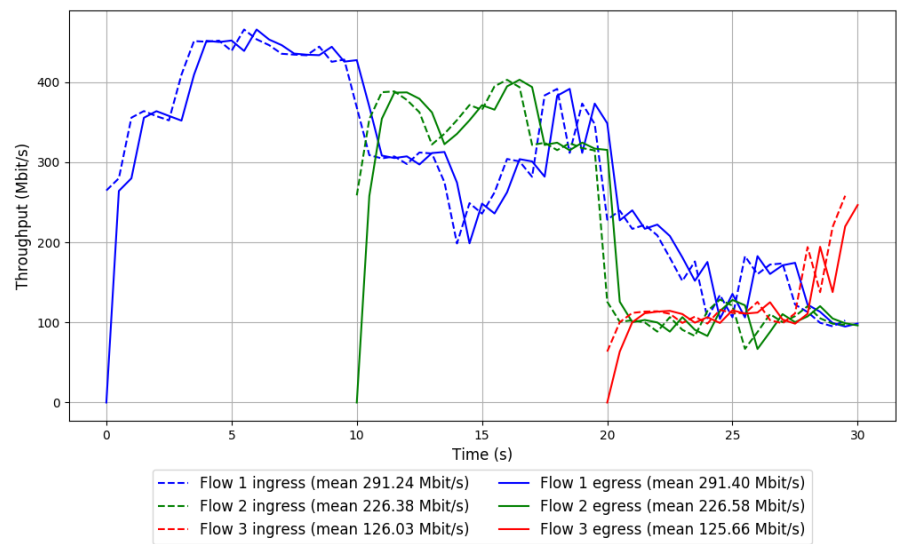
-- Flow 3:

Average throughput: 125.66 Mbit/s

95th percentile per-packet one-way delay: 1.280 ms

Loss rate: 0.46%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-07-11 00:39:13

End at: 2018-07-11 00:39:43

Local clock offset: 0.698 ms

Remote clock offset: 1.359 ms

Below is generated by plot.py at 2018-07-11 01:32:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 518.76 Mbit/s

95th percentile per-packet one-way delay: 1.202 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 308.66 Mbit/s

95th percentile per-packet one-way delay: 1.209 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 253.33 Mbit/s

95th percentile per-packet one-way delay: 1.170 ms

Loss rate: 0.06%

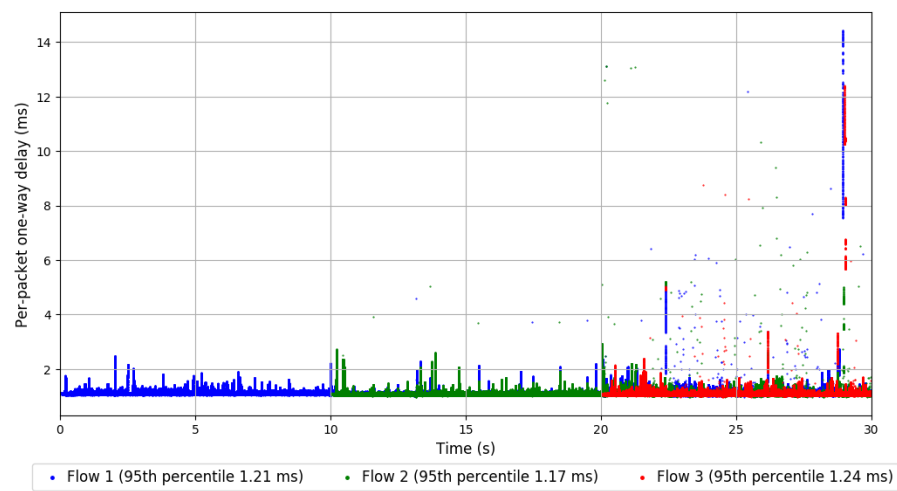
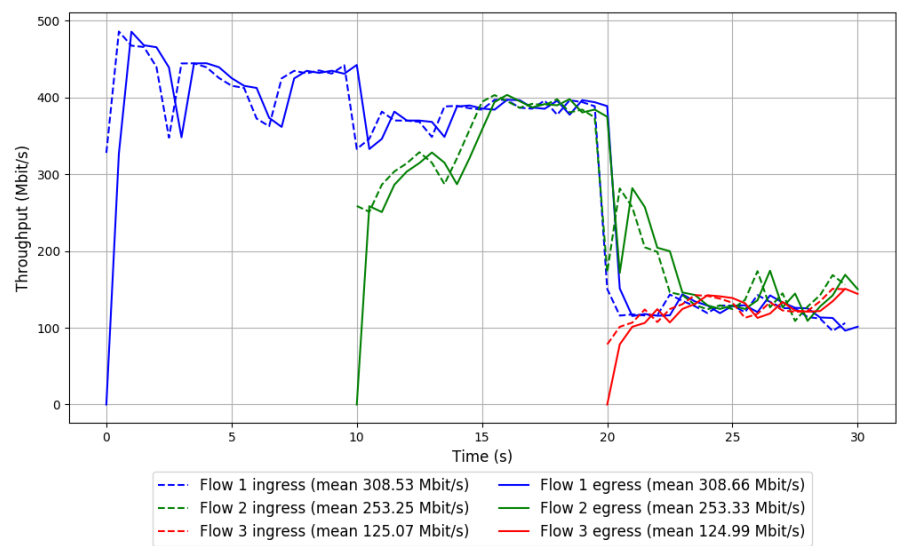
-- Flow 3:

Average throughput: 124.99 Mbit/s

95th percentile per-packet one-way delay: 1.238 ms

Loss rate: 0.24%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-07-10 20:26:50

End at: 2018-07-10 20:27:20

Local clock offset: 0.705 ms

Remote clock offset: 0.431 ms

Below is generated by plot.py at 2018-07-11 01:32:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 708.96 Mbit/s

95th percentile per-packet one-way delay: 4.598 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 380.28 Mbit/s

95th percentile per-packet one-way delay: 4.437 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 343.93 Mbit/s

95th percentile per-packet one-way delay: 4.607 ms

Loss rate: 0.10%

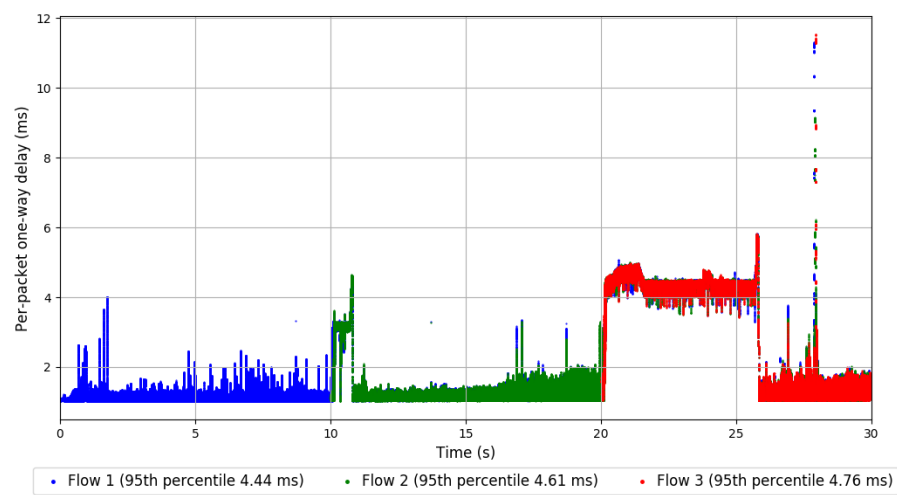
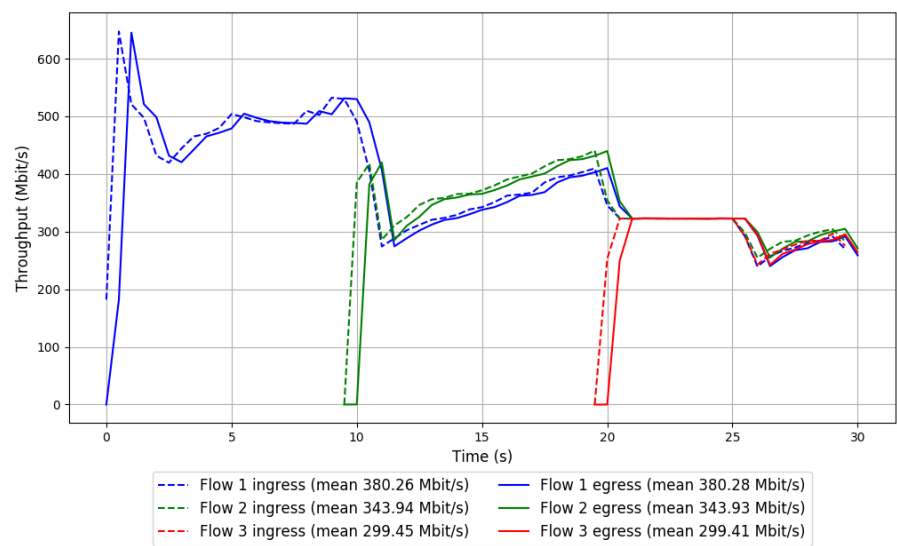
-- Flow 3:

Average throughput: 299.41 Mbit/s

95th percentile per-packet one-way delay: 4.760 ms

Loss rate: 0.21%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-07-10 20:53:48

End at: 2018-07-10 20:54:18

Local clock offset: 0.584 ms

Remote clock offset: 1.216 ms

Below is generated by plot.py at 2018-07-11 01:32:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 772.71 Mbit/s

95th percentile per-packet one-way delay: 9.412 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 402.15 Mbit/s

95th percentile per-packet one-way delay: 10.845 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 379.50 Mbit/s

95th percentile per-packet one-way delay: 4.393 ms

Loss rate: 0.10%

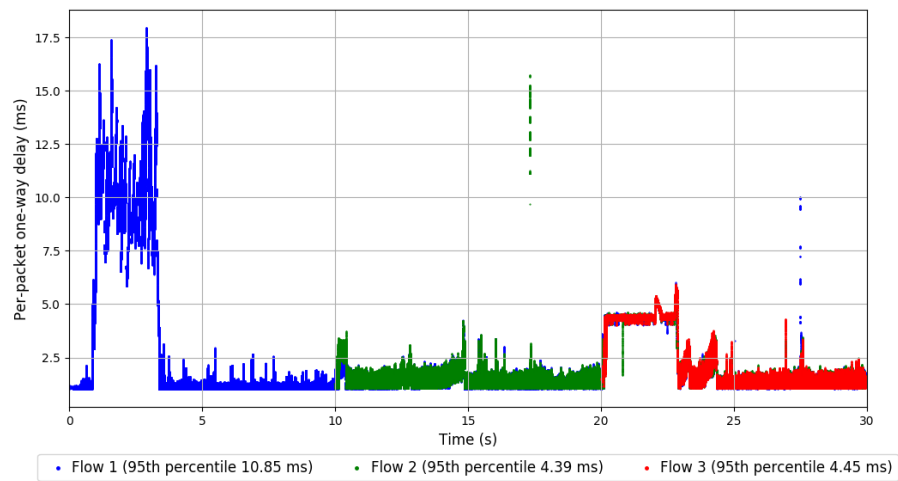
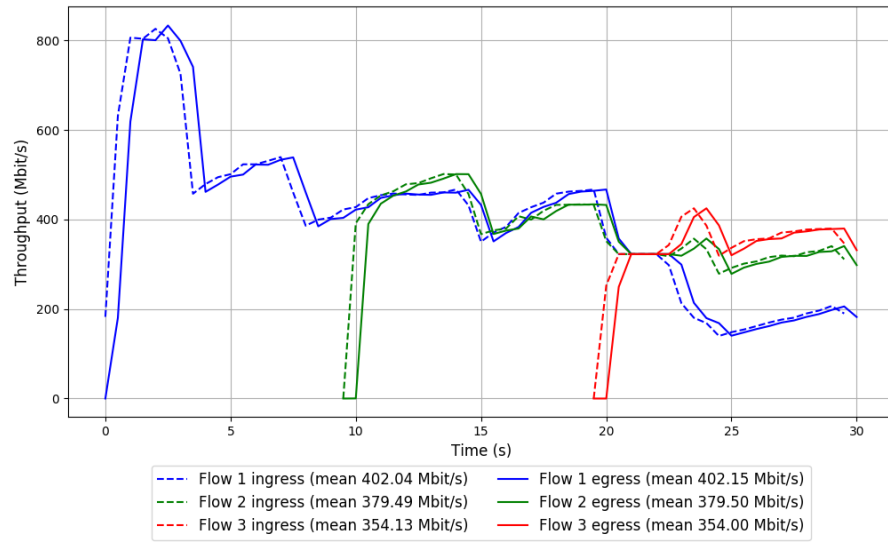
-- Flow 3:

Average throughput: 354.00 Mbit/s

95th percentile per-packet one-way delay: 4.447 ms

Loss rate: 0.23%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-07-10 21:20:35

End at: 2018-07-10 21:21:05

Local clock offset: 0.593 ms

Remote clock offset: 1.825 ms

Below is generated by plot.py at 2018-07-11 01:32:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 809.34 Mbit/s

95th percentile per-packet one-way delay: 4.311 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 451.90 Mbit/s

95th percentile per-packet one-way delay: 6.407 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 377.44 Mbit/s

95th percentile per-packet one-way delay: 4.288 ms

Loss rate: 0.11%

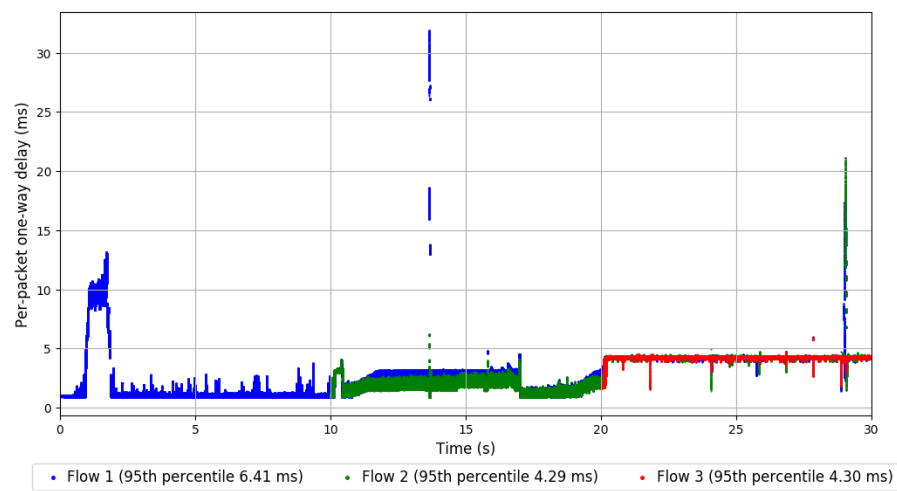
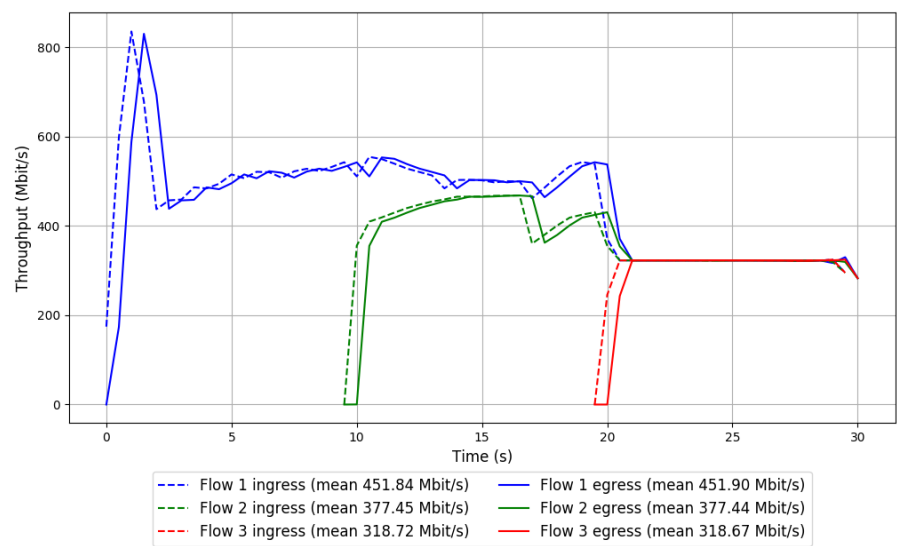
-- Flow 3:

Average throughput: 318.67 Mbit/s

95th percentile per-packet one-way delay: 4.301 ms

Loss rate: 0.24%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-07-10 21:47:40

End at: 2018-07-10 21:48:10

Local clock offset: 0.639 ms

Remote clock offset: 2.326 ms

Below is generated by plot.py at 2018-07-11 01:32:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 806.01 Mbit/s

95th percentile per-packet one-way delay: 4.350 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 428.75 Mbit/s

95th percentile per-packet one-way delay: 4.315 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 401.45 Mbit/s

95th percentile per-packet one-way delay: 4.358 ms

Loss rate: 0.09%

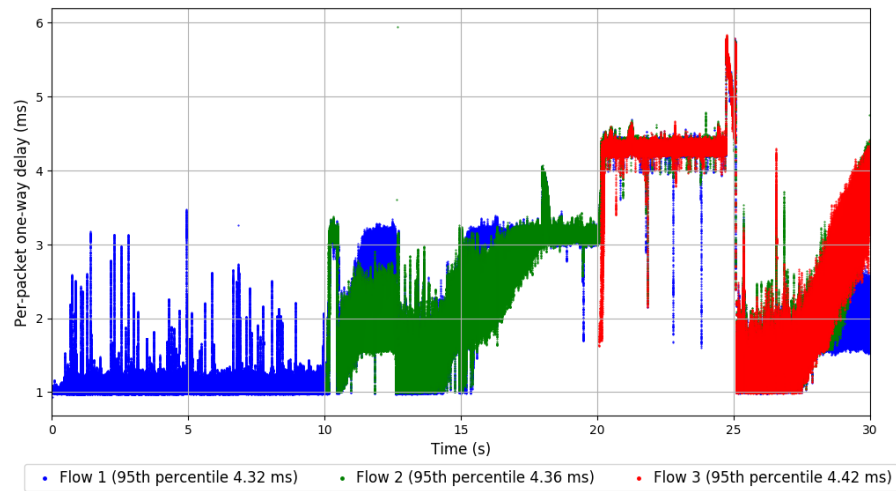
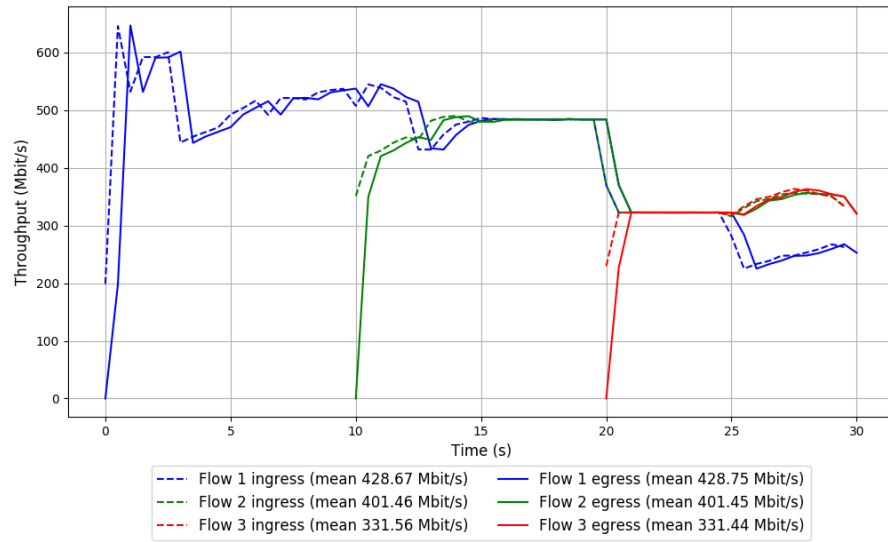
-- Flow 3:

Average throughput: 331.44 Mbit/s

95th percentile per-packet one-way delay: 4.417 ms

Loss rate: 0.24%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-07-10 22:14:33

End at: 2018-07-10 22:15:03

Local clock offset: 0.743 ms

Remote clock offset: 2.271 ms

Below is generated by plot.py at 2018-07-11 01:39:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 848.20 Mbit/s

95th percentile per-packet one-way delay: 9.708 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 477.16 Mbit/s

95th percentile per-packet one-way delay: 10.203 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 404.54 Mbit/s

95th percentile per-packet one-way delay: 4.362 ms

Loss rate: 0.10%

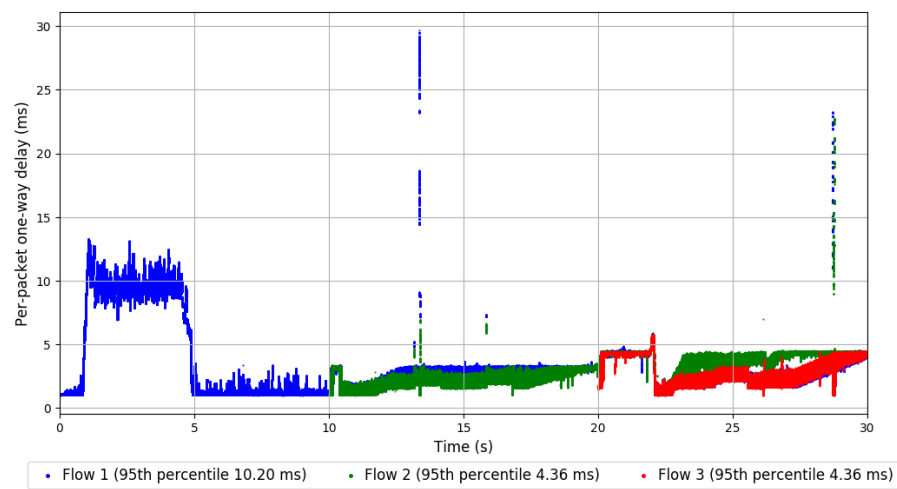
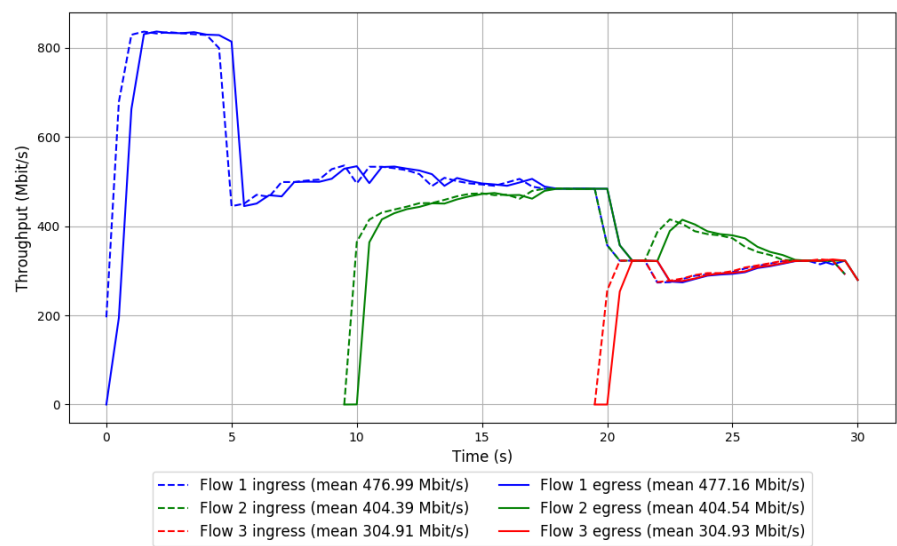
-- Flow 3:

Average throughput: 304.93 Mbit/s

95th percentile per-packet one-way delay: 4.358 ms

Loss rate: 0.25%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-07-10 22:41:35

End at: 2018-07-10 22:42:05

Local clock offset: 0.901 ms

Remote clock offset: 2.122 ms

Below is generated by plot.py at 2018-07-11 01:40:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 861.10 Mbit/s

95th percentile per-packet one-way delay: 10.797 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 494.94 Mbit/s

95th percentile per-packet one-way delay: 11.220 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 391.31 Mbit/s

95th percentile per-packet one-way delay: 4.400 ms

Loss rate: 0.10%

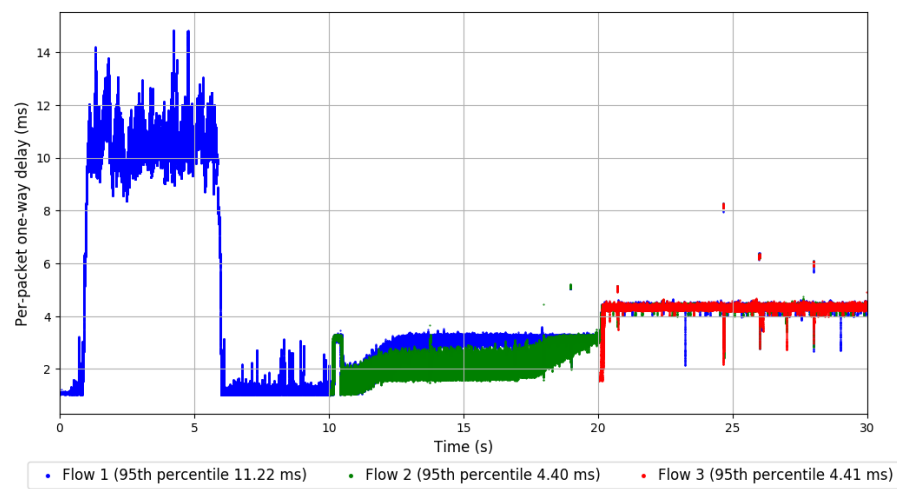
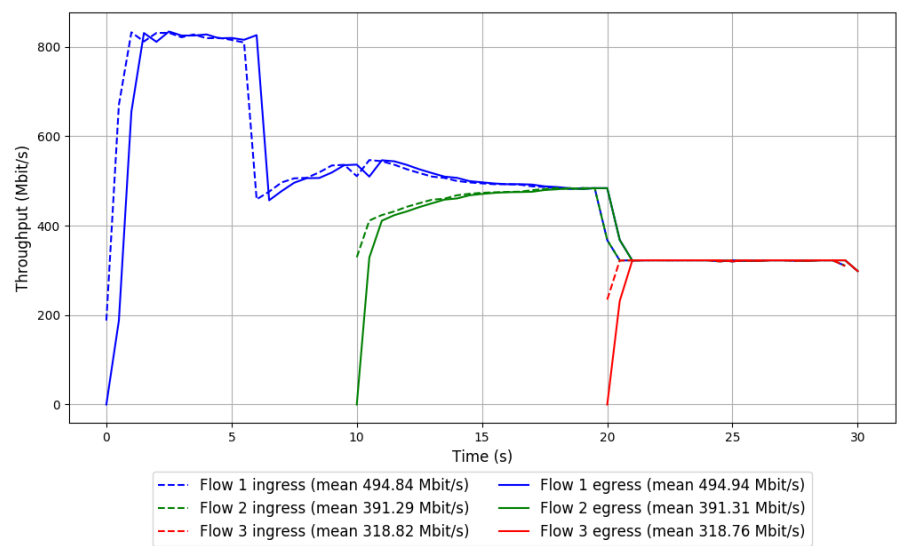
-- Flow 3:

Average throughput: 318.76 Mbit/s

95th percentile per-packet one-way delay: 4.412 ms

Loss rate: 0.22%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-07-10 23:08:33

End at: 2018-07-10 23:09:03

Local clock offset: 0.714 ms

Remote clock offset: 1.924 ms

Below is generated by plot.py at 2018-07-11 01:40:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 812.13 Mbit/s

95th percentile per-packet one-way delay: 4.363 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 446.40 Mbit/s

95th percentile per-packet one-way delay: 4.415 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 390.56 Mbit/s

95th percentile per-packet one-way delay: 4.327 ms

Loss rate: 0.09%

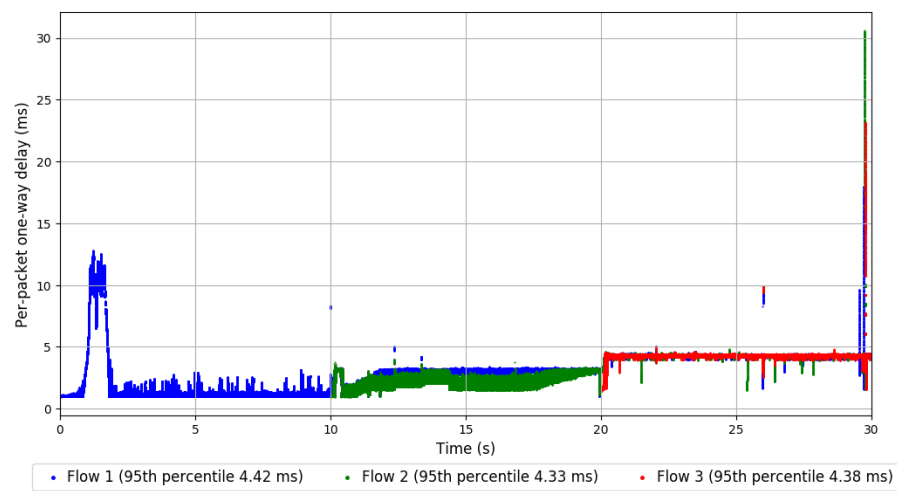
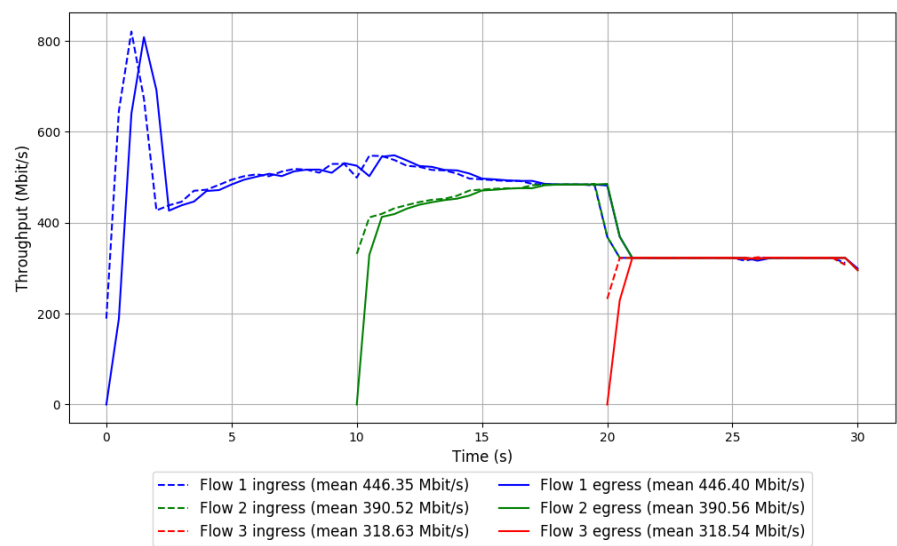
-- Flow 3:

Average throughput: 318.54 Mbit/s

95th percentile per-packet one-way delay: 4.375 ms

Loss rate: 0.23%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-07-10 23:35:21

End at: 2018-07-10 23:35:51

Local clock offset: 0.538 ms

Remote clock offset: 1.824 ms

Below is generated by plot.py at 2018-07-11 01:40:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 811.00 Mbit/s

95th percentile per-packet one-way delay: 4.293 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 439.57 Mbit/s

95th percentile per-packet one-way delay: 4.274 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 398.49 Mbit/s

95th percentile per-packet one-way delay: 4.302 ms

Loss rate: 0.09%

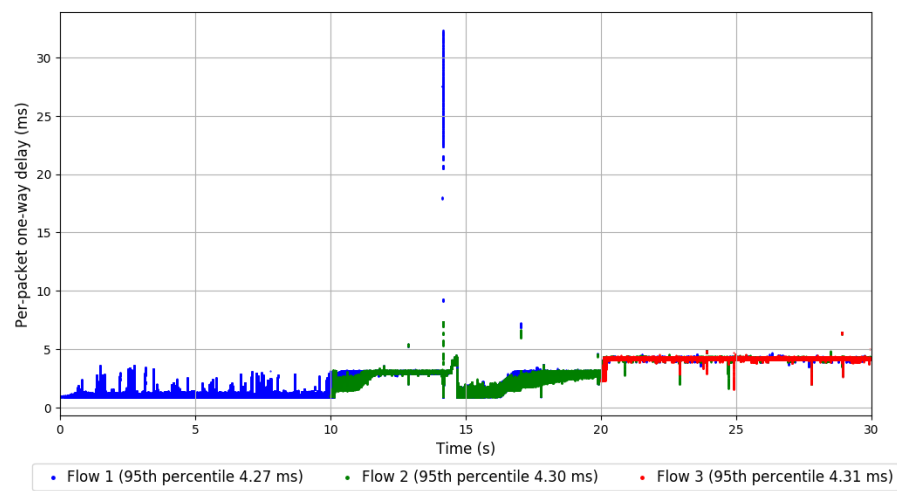
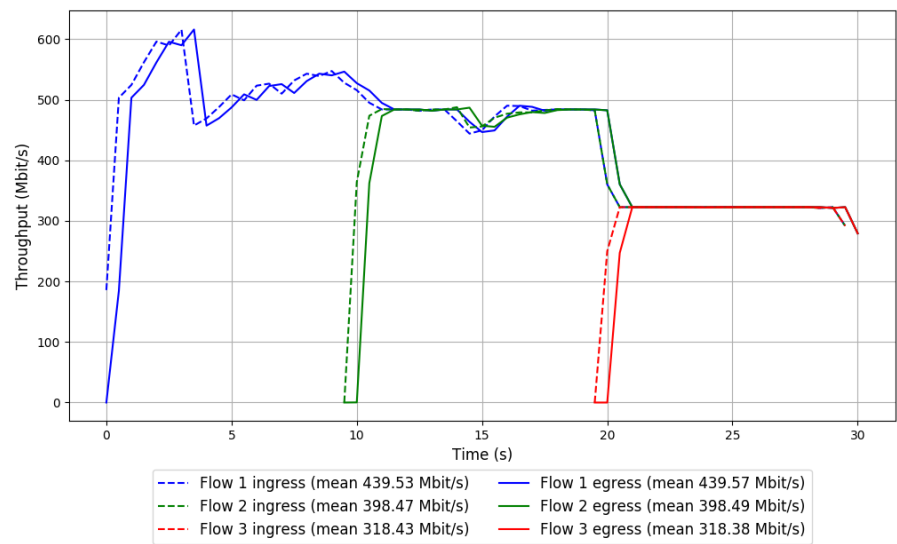
-- Flow 3:

Average throughput: 318.38 Mbit/s

95th percentile per-packet one-way delay: 4.308 ms

Loss rate: 0.24%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-07-11 00:02:10

End at: 2018-07-11 00:02:40

Local clock offset: 0.625 ms

Remote clock offset: 1.652 ms

Below is generated by plot.py at 2018-07-11 01:40:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 853.09 Mbit/s

95th percentile per-packet one-way delay: 4.398 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 482.75 Mbit/s

95th percentile per-packet one-way delay: 4.384 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 397.49 Mbit/s

95th percentile per-packet one-way delay: 4.407 ms

Loss rate: 0.09%

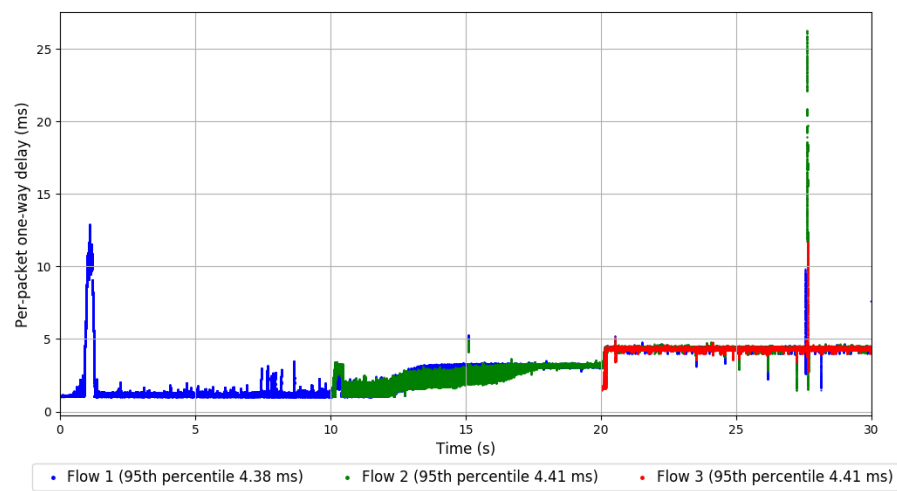
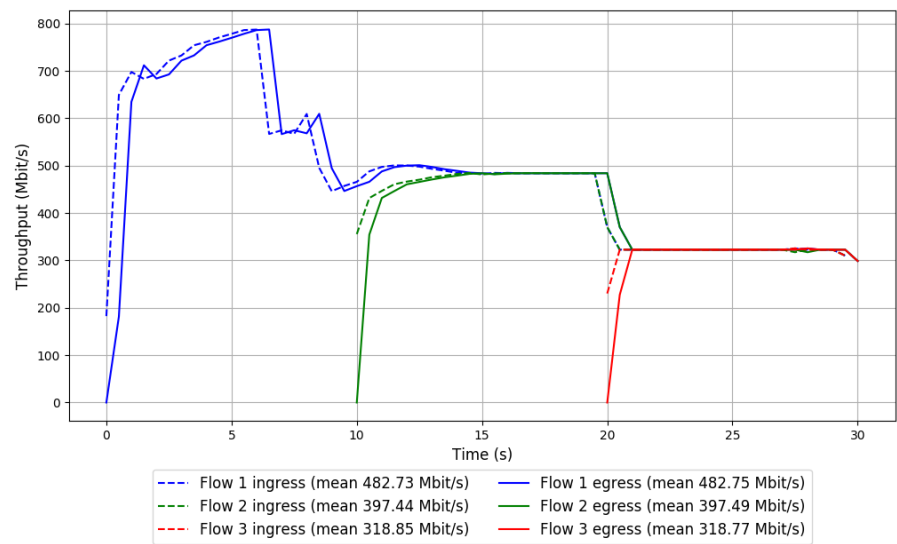
-- Flow 3:

Average throughput: 318.77 Mbit/s

95th percentile per-packet one-way delay: 4.406 ms

Loss rate: 0.22%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-07-11 00:29:10

End at: 2018-07-11 00:29:40

Local clock offset: 0.849 ms

Remote clock offset: 1.556 ms

Below is generated by plot.py at 2018-07-11 01:40:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 818.76 Mbit/s

95th percentile per-packet one-way delay: 4.346 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 446.09 Mbit/s

95th percentile per-packet one-way delay: 4.373 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 400.79 Mbit/s

95th percentile per-packet one-way delay: 4.324 ms

Loss rate: 0.09%

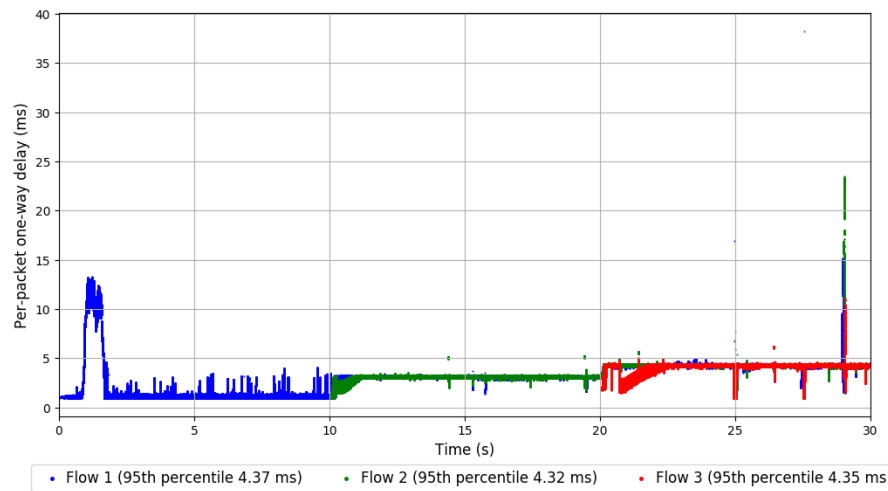
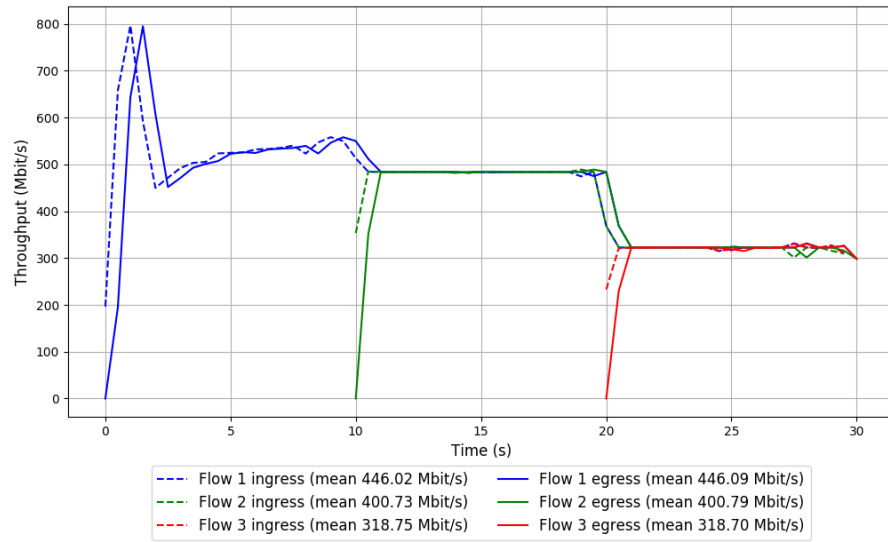
-- Flow 3:

Average throughput: 318.70 Mbit/s

95th percentile per-packet one-way delay: 4.353 ms

Loss rate: 0.23%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-07-10 20:31:46

End at: 2018-07-10 20:32:16

Local clock offset: 0.624 ms

Remote clock offset: 0.566 ms

Below is generated by plot.py at 2018-07-11 01:44:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 937.50 Mbit/s

95th percentile per-packet one-way delay: 4.617 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 580.05 Mbit/s

95th percentile per-packet one-way delay: 4.244 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 396.44 Mbit/s

95th percentile per-packet one-way delay: 4.687 ms

Loss rate: 0.12%

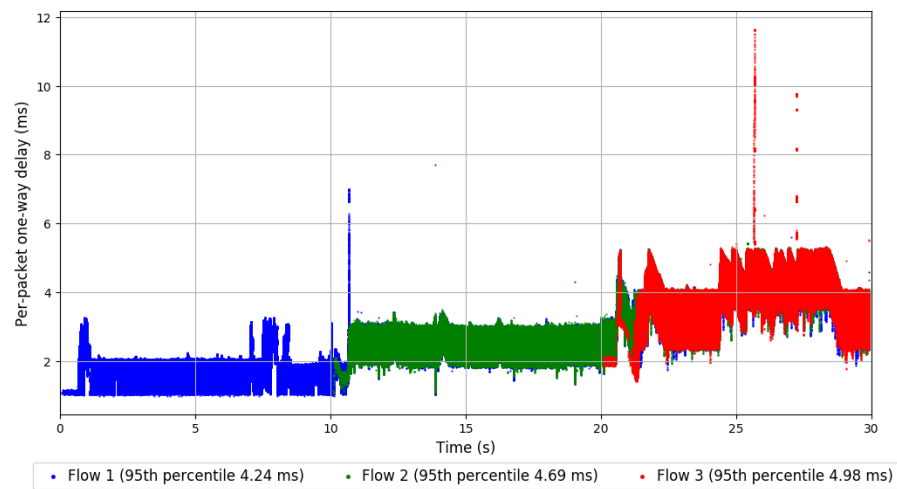
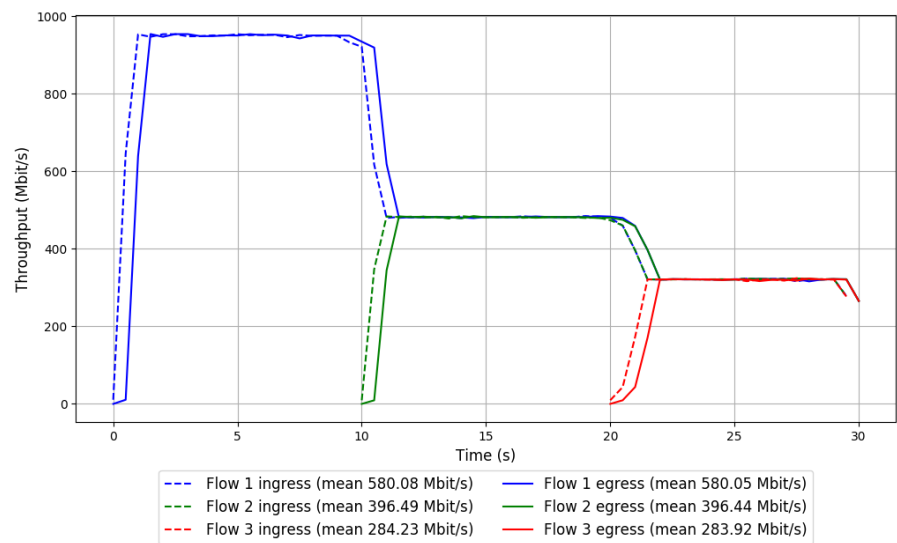
-- Flow 3:

Average throughput: 283.92 Mbit/s

95th percentile per-packet one-way delay: 4.980 ms

Loss rate: 0.30%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-07-10 20:58:44

End at: 2018-07-10 20:59:14

Local clock offset: 0.606 ms

Remote clock offset: 1.369 ms

Below is generated by plot.py at 2018-07-11 01:44:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 883.15 Mbit/s

95th percentile per-packet one-way delay: 4.845 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 521.52 Mbit/s

95th percentile per-packet one-way delay: 4.661 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 394.74 Mbit/s

95th percentile per-packet one-way delay: 4.862 ms

Loss rate: 0.16%

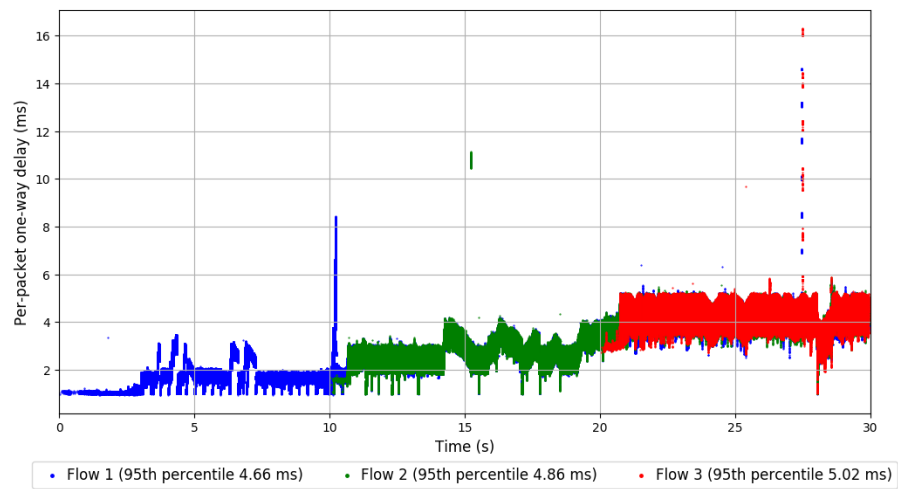
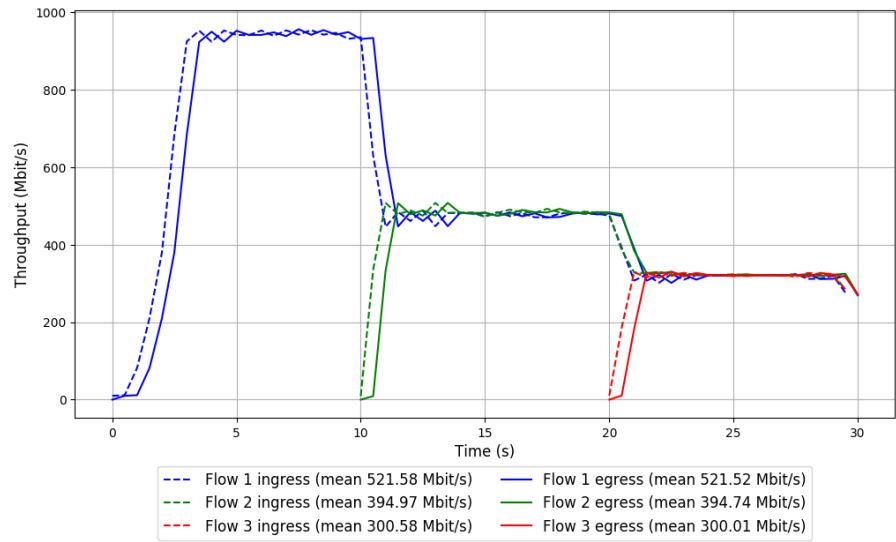
-- Flow 3:

Average throughput: 300.01 Mbit/s

95th percentile per-packet one-way delay: 5.019 ms

Loss rate: 0.40%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-07-10 21:25:30

End at: 2018-07-10 21:26:00

Local clock offset: 0.588 ms

Remote clock offset: 1.956 ms

Below is generated by plot.py at 2018-07-11 01:52:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 938.31 Mbit/s

95th percentile per-packet one-way delay: 4.787 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 587.48 Mbit/s

95th percentile per-packet one-way delay: 4.583 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 386.85 Mbit/s

95th percentile per-packet one-way delay: 4.838 ms

Loss rate: 0.17%

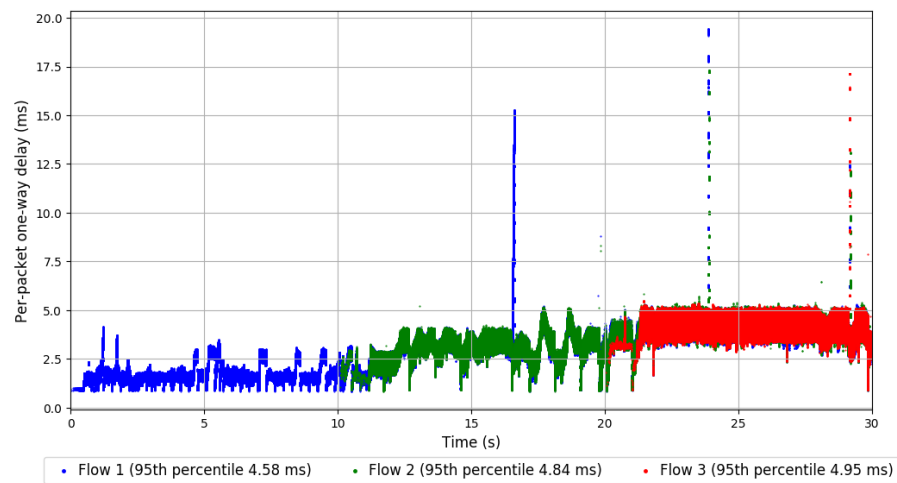
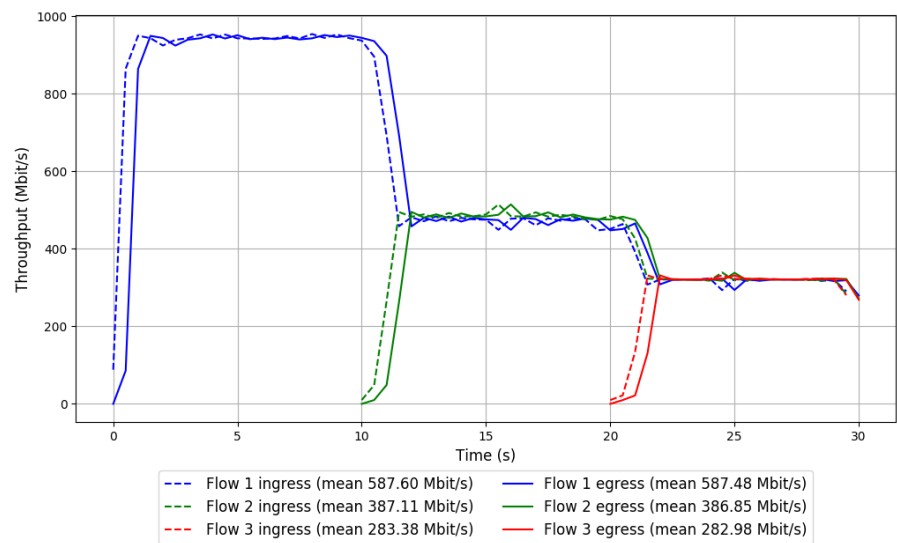
-- Flow 3:

Average throughput: 282.98 Mbit/s

95th percentile per-packet one-way delay: 4.949 ms

Loss rate: 0.35%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-07-10 21:52:36

End at: 2018-07-10 21:53:06

Local clock offset: 0.525 ms

Remote clock offset: 2.326 ms

Below is generated by plot.py at 2018-07-11 01:52:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 938.48 Mbit/s

95th percentile per-packet one-way delay: 3.804 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 586.05 Mbit/s

95th percentile per-packet one-way delay: 3.825 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 379.21 Mbit/s

95th percentile per-packet one-way delay: 3.790 ms

Loss rate: 0.11%

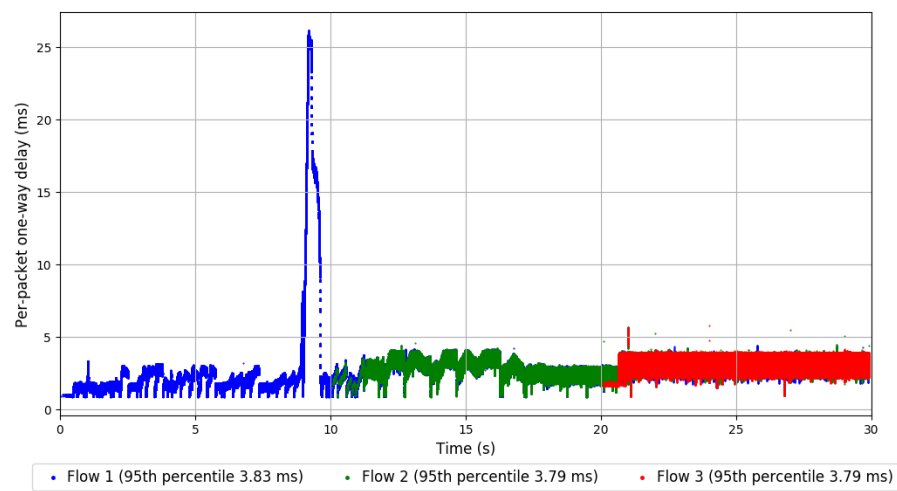
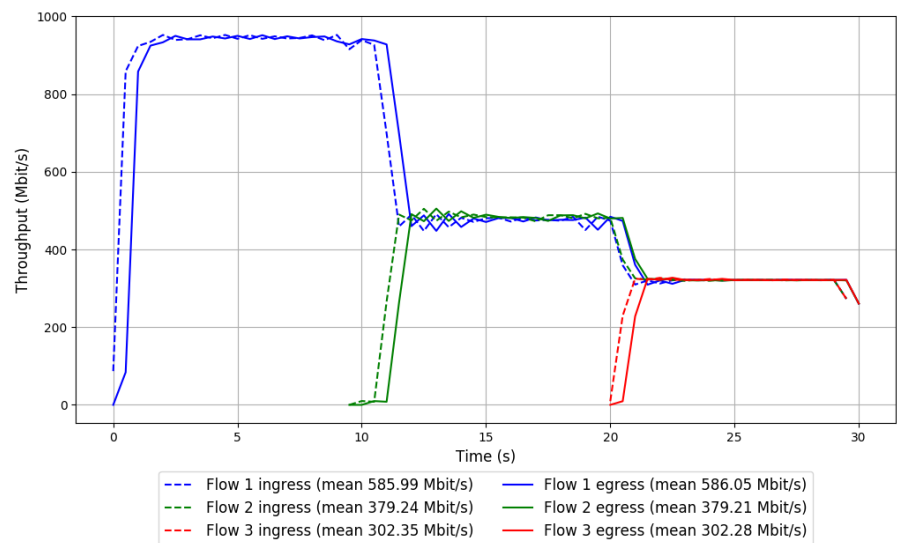
-- Flow 3:

Average throughput: 302.28 Mbit/s

95th percentile per-packet one-way delay: 3.795 ms

Loss rate: 0.24%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-07-10 22:19:32

End at: 2018-07-10 22:20:02

Local clock offset: 0.758 ms

Remote clock offset: 2.239 ms

Below is generated by plot.py at 2018-07-11 01:52:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 927.87 Mbit/s

95th percentile per-packet one-way delay: 18.791 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 571.23 Mbit/s

95th percentile per-packet one-way delay: 29.389 ms

Loss rate: 1.12%

-- Flow 2:

Average throughput: 388.86 Mbit/s

95th percentile per-packet one-way delay: 3.844 ms

Loss rate: 0.09%

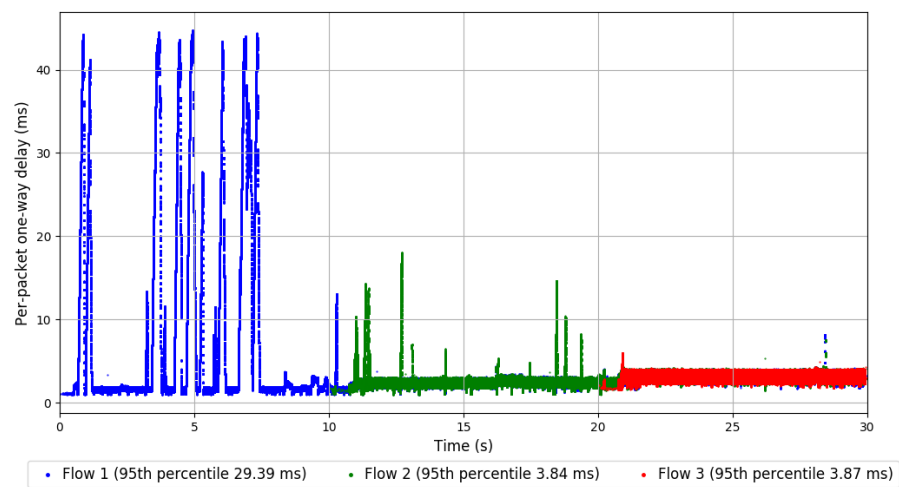
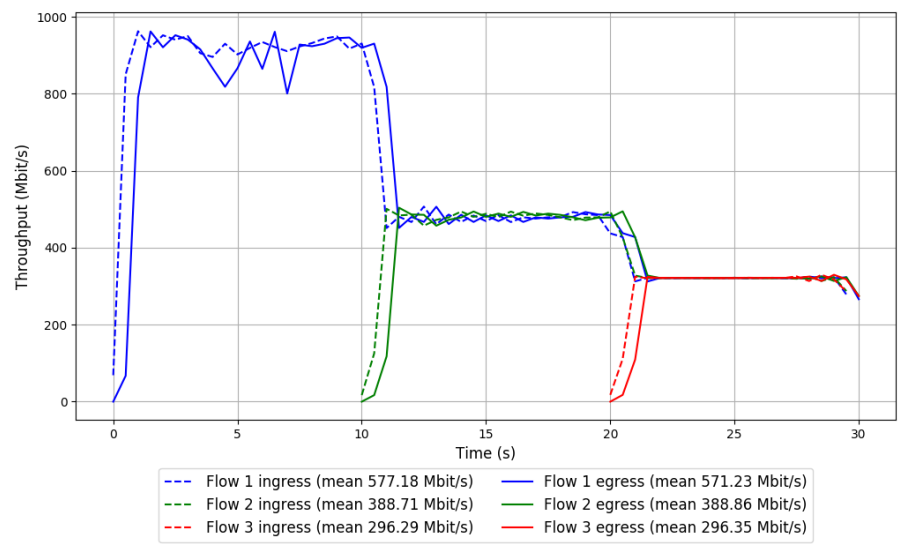
-- Flow 3:

Average throughput: 296.35 Mbit/s

95th percentile per-packet one-way delay: 3.867 ms

Loss rate: 0.24%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-07-10 22:46:34

End at: 2018-07-10 22:47:04

Local clock offset: 0.893 ms

Remote clock offset: 2.071 ms

Below is generated by plot.py at 2018-07-11 01:52:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 879.38 Mbit/s

95th percentile per-packet one-way delay: 3.834 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 520.20 Mbit/s

95th percentile per-packet one-way delay: 3.744 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 389.76 Mbit/s

95th percentile per-packet one-way delay: 3.825 ms

Loss rate: 0.09%

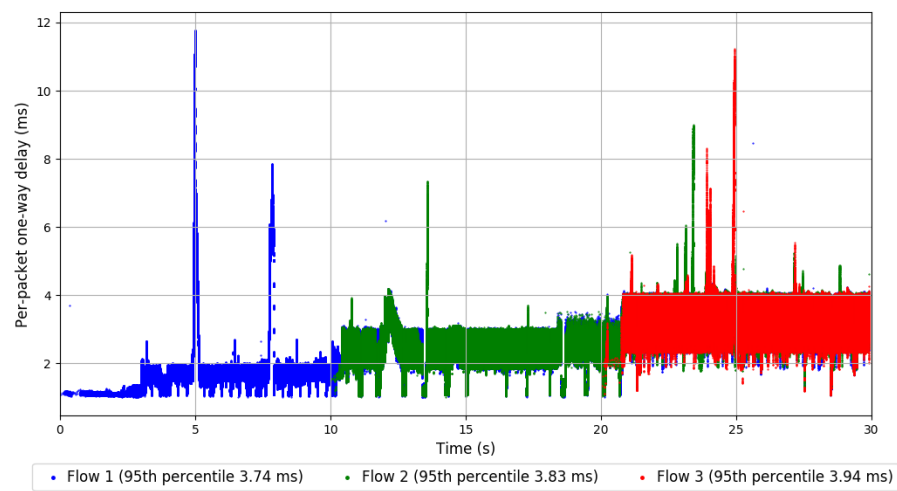
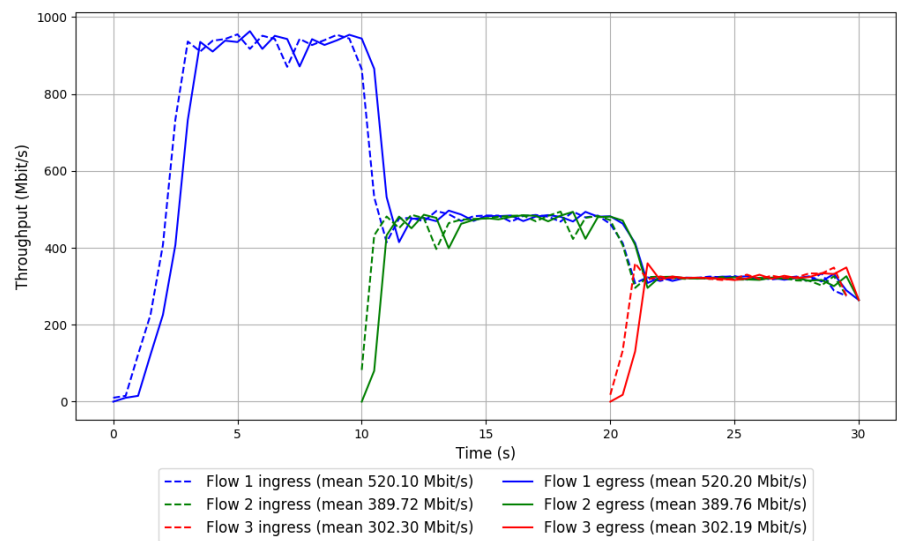
-- Flow 3:

Average throughput: 302.19 Mbit/s

95th percentile per-packet one-way delay: 3.941 ms

Loss rate: 0.22%

Run 6: Report of FillP — Data Link

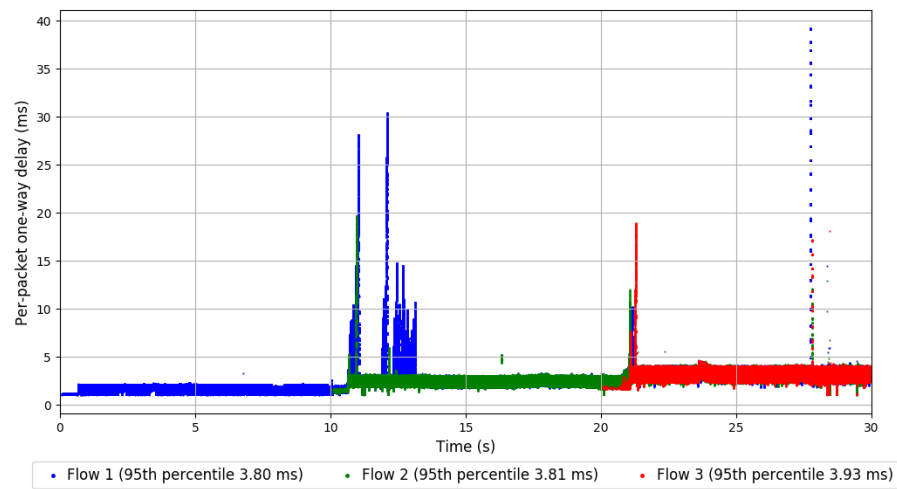
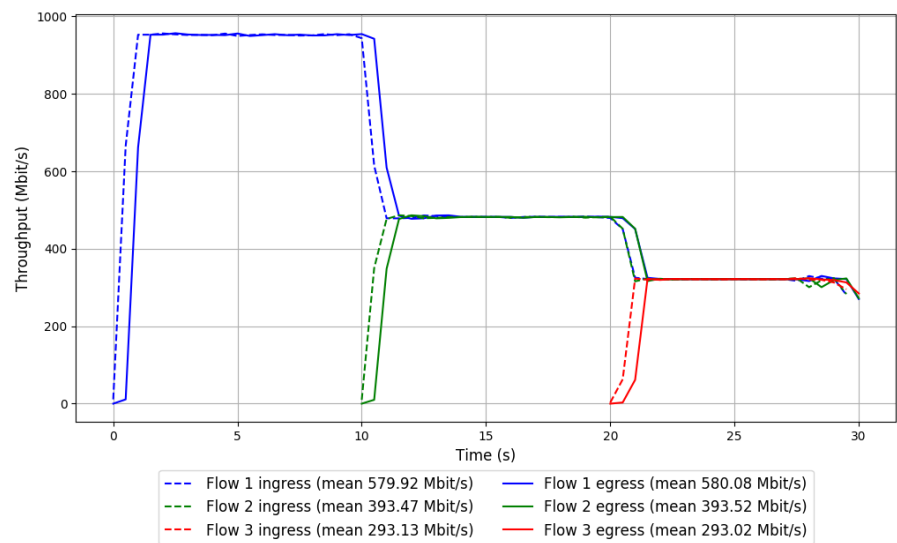


Run 7: Statistics of FillP

Start at: 2018-07-10 23:13:30
End at: 2018-07-10 23:14:00
Local clock offset: 0.653 ms
Remote clock offset: 1.794 ms

Below is generated by plot.py at 2018-07-11 01:53:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 938.79 Mbit/s
95th percentile per-packet one-way delay: 3.839 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 580.08 Mbit/s
95th percentile per-packet one-way delay: 3.798 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 393.52 Mbit/s
95th percentile per-packet one-way delay: 3.807 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 293.02 Mbit/s
95th percentile per-packet one-way delay: 3.926 ms
Loss rate: 0.22%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-07-10 23:40:14

End at: 2018-07-10 23:40:44

Local clock offset: 0.453 ms

Remote clock offset: 1.697 ms

Below is generated by plot.py at 2018-07-11 01:53:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 878.09 Mbit/s

95th percentile per-packet one-way delay: 5.285 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 516.86 Mbit/s

95th percentile per-packet one-way delay: 6.626 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 390.68 Mbit/s

95th percentile per-packet one-way delay: 3.697 ms

Loss rate: 0.09%

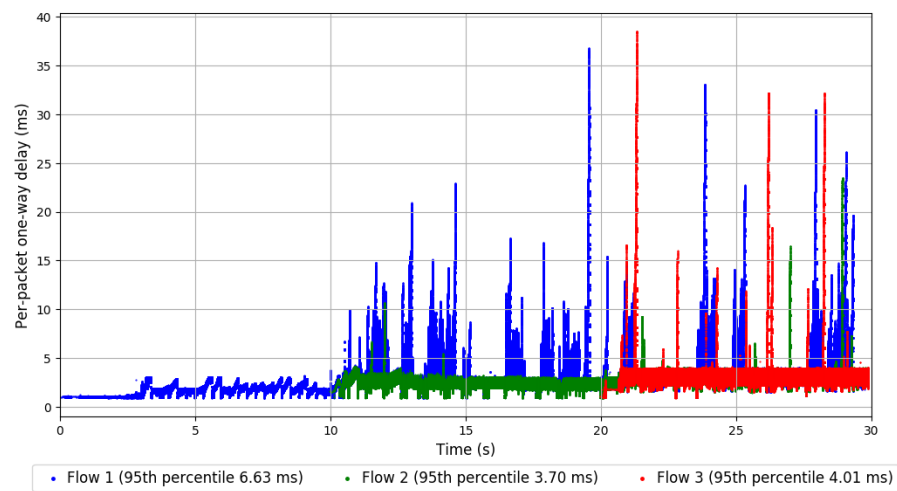
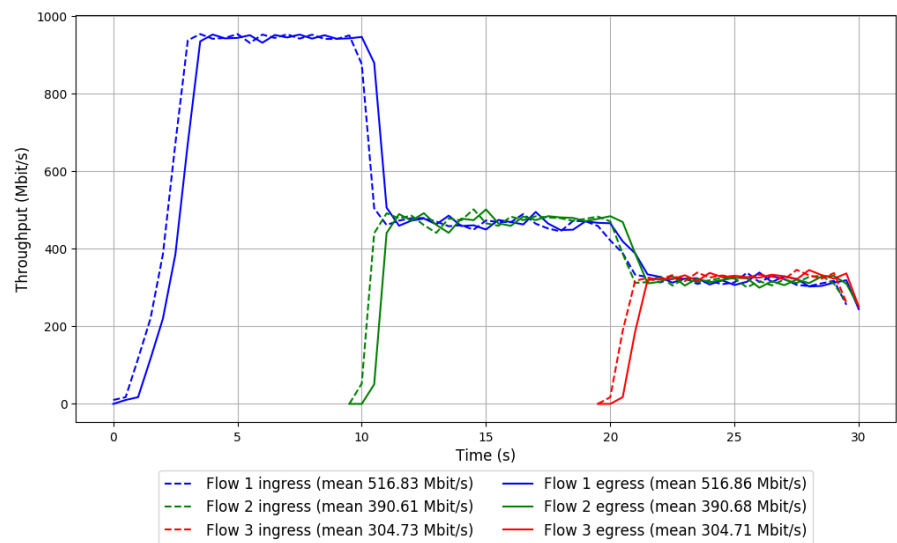
-- Flow 3:

Average throughput: 304.71 Mbit/s

95th percentile per-packet one-way delay: 4.013 ms

Loss rate: 0.22%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-07-11 00:07:07

End at: 2018-07-11 00:07:37

Local clock offset: 0.696 ms

Remote clock offset: 1.699 ms

Below is generated by plot.py at 2018-07-11 01:57:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 935.71 Mbit/s

95th percentile per-packet one-way delay: 3.867 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 577.52 Mbit/s

95th percentile per-packet one-way delay: 3.860 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 391.05 Mbit/s

95th percentile per-packet one-way delay: 3.789 ms

Loss rate: 0.09%

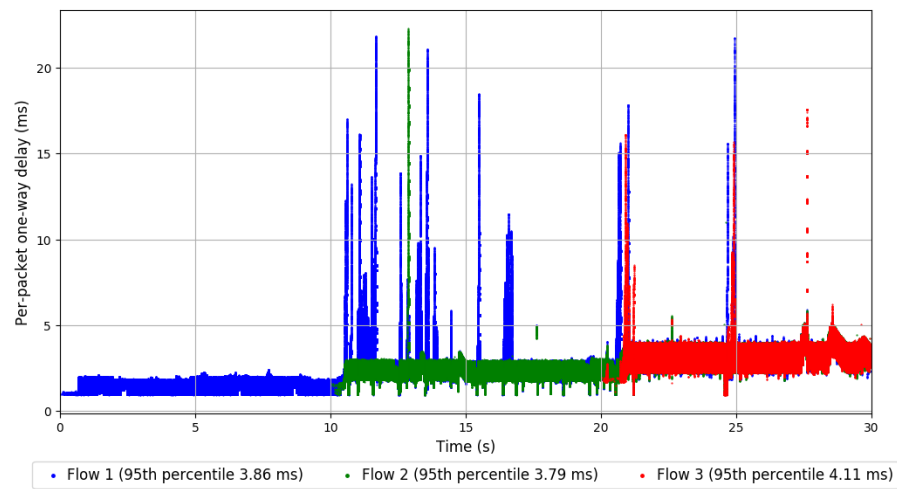
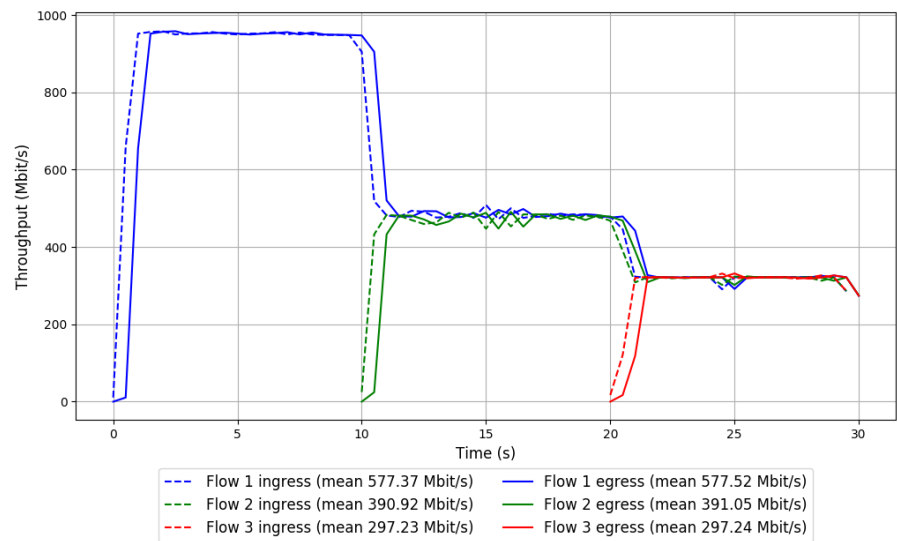
-- Flow 3:

Average throughput: 297.24 Mbit/s

95th percentile per-packet one-way delay: 4.109 ms

Loss rate: 0.24%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-07-11 00:34:04

End at: 2018-07-11 00:34:34

Local clock offset: 0.843 ms

Remote clock offset: 1.404 ms

Below is generated by plot.py at 2018-07-11 01:58:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 938.40 Mbit/s

95th percentile per-packet one-way delay: 3.850 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 578.33 Mbit/s

95th percentile per-packet one-way delay: 3.791 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 390.96 Mbit/s

95th percentile per-packet one-way delay: 3.890 ms

Loss rate: 0.09%

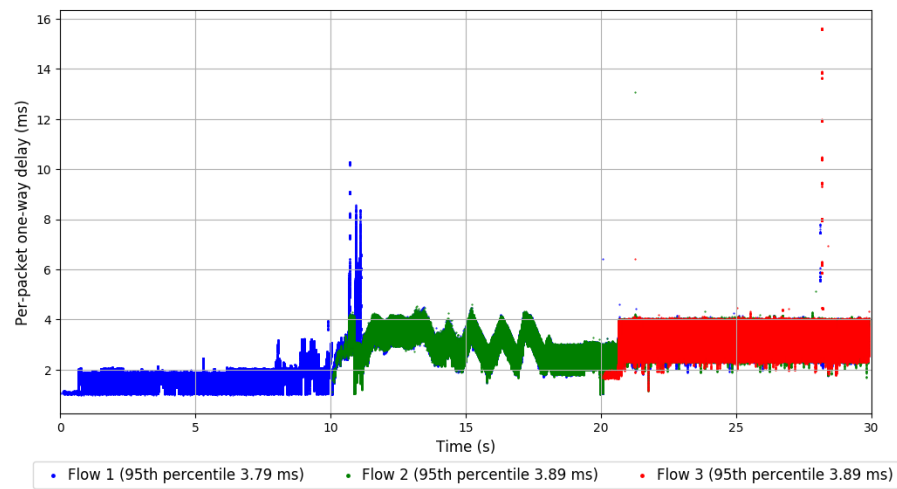
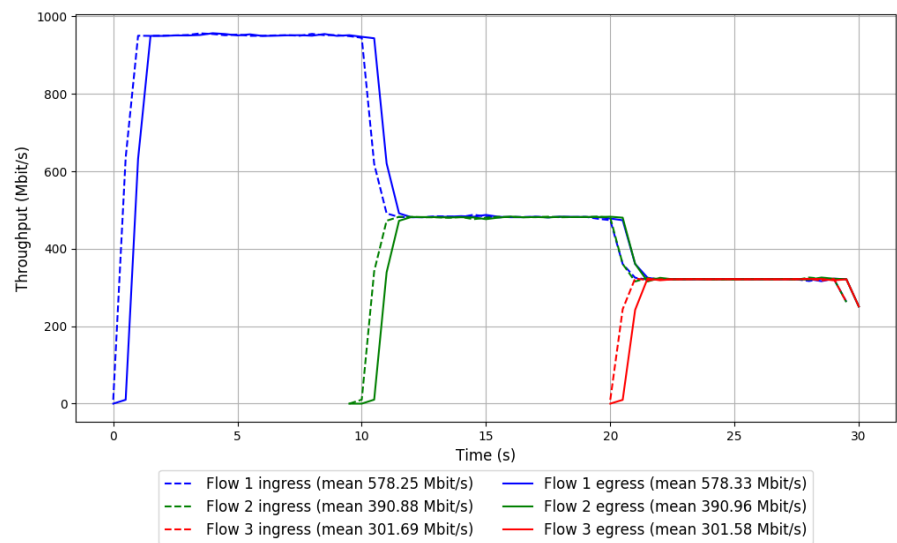
-- Flow 3:

Average throughput: 301.58 Mbit/s

95th percentile per-packet one-way delay: 3.894 ms

Loss rate: 0.23%

Run 10: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2018-07-10 20:21:57

End at: 2018-07-10 20:22:27

Local clock offset: 0.71 ms

Remote clock offset: 0.278 ms

Below is generated by plot.py at 2018-07-11 02:04:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 936.28 Mbit/s

95th percentile per-packet one-way delay: 4.778 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 568.23 Mbit/s

95th percentile per-packet one-way delay: 4.840 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 395.59 Mbit/s

95th percentile per-packet one-way delay: 4.632 ms

Loss rate: 0.14%

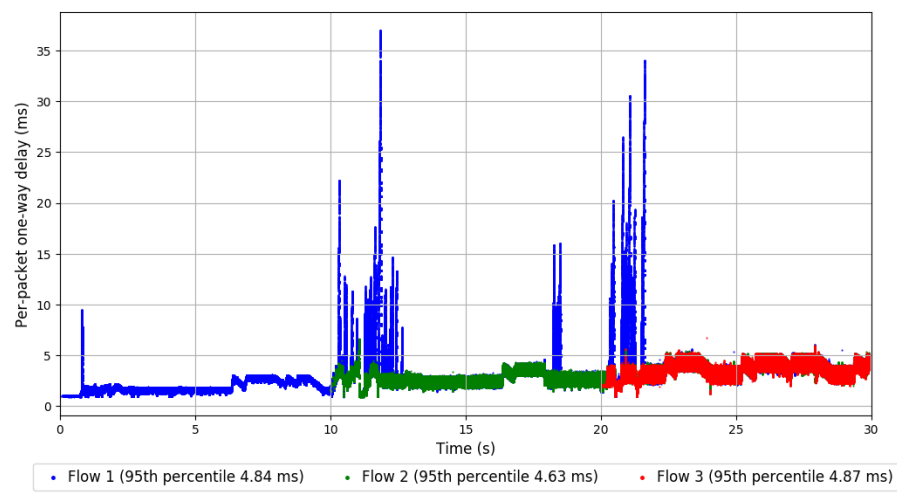
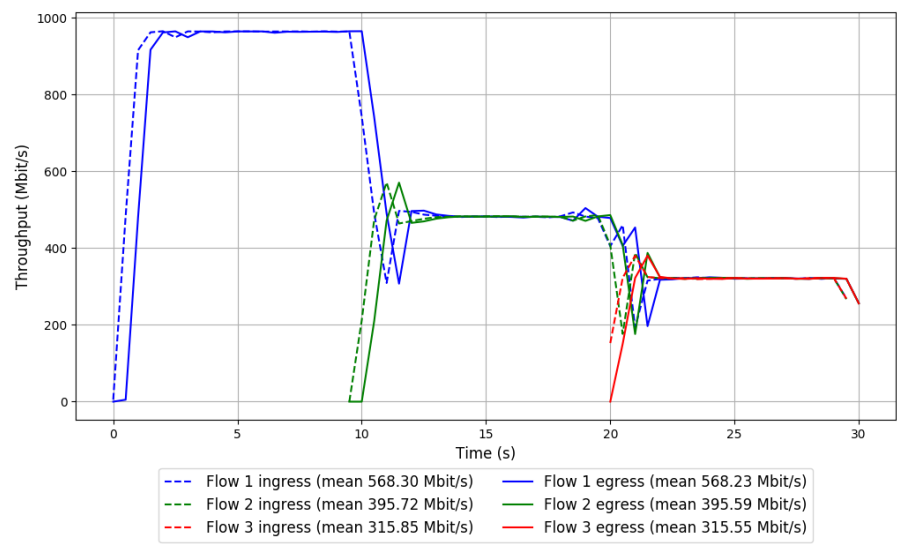
-- Flow 3:

Average throughput: 315.55 Mbit/s

95th percentile per-packet one-way delay: 4.867 ms

Loss rate: 0.32%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-07-10 20:48:58

End at: 2018-07-10 20:49:28

Local clock offset: 0.57 ms

Remote clock offset: 1.088 ms

Below is generated by plot.py at 2018-07-11 02:04:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 913.81 Mbit/s

95th percentile per-packet one-way delay: 37.523 ms

Loss rate: 1.84%

-- Flow 1:

Average throughput: 543.19 Mbit/s

95th percentile per-packet one-way delay: 41.656 ms

Loss rate: 2.92%

-- Flow 2:

Average throughput: 398.70 Mbit/s

95th percentile per-packet one-way delay: 4.891 ms

Loss rate: 0.18%

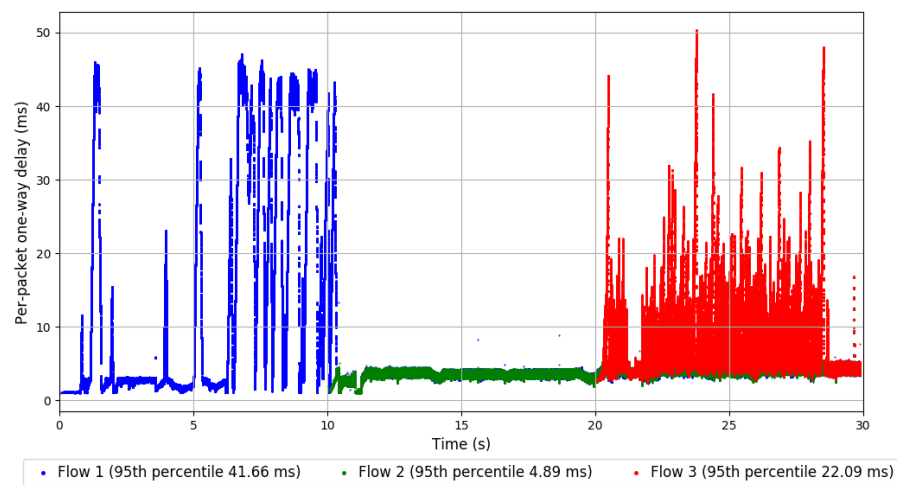
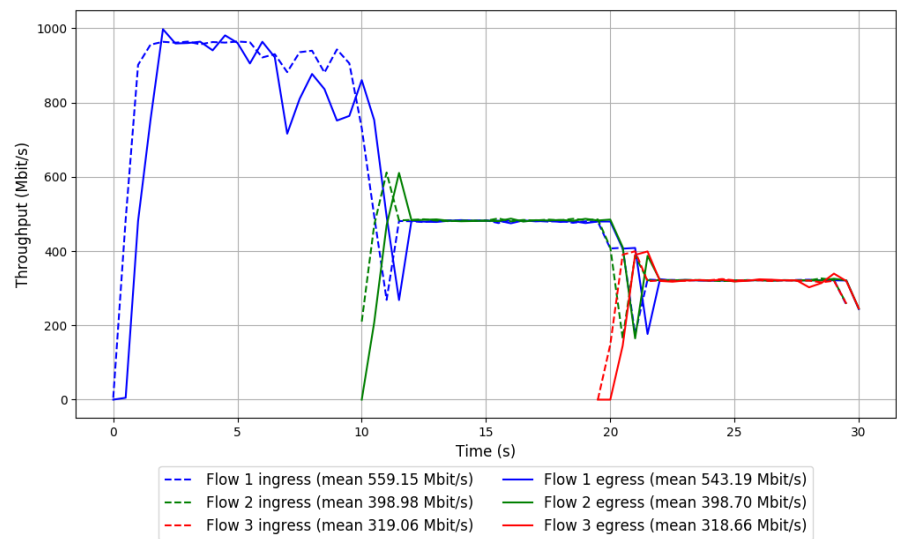
-- Flow 3:

Average throughput: 318.66 Mbit/s

95th percentile per-packet one-way delay: 22.091 ms

Loss rate: 0.33%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2018-07-10 21:15:46

End at: 2018-07-10 21:16:16

Local clock offset: 0.688 ms

Remote clock offset: 1.693 ms

Below is generated by plot.py at 2018-07-11 02:05:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 936.91 Mbit/s

95th percentile per-packet one-way delay: 4.787 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 567.31 Mbit/s

95th percentile per-packet one-way delay: 4.572 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 397.40 Mbit/s

95th percentile per-packet one-way delay: 4.816 ms

Loss rate: 0.20%

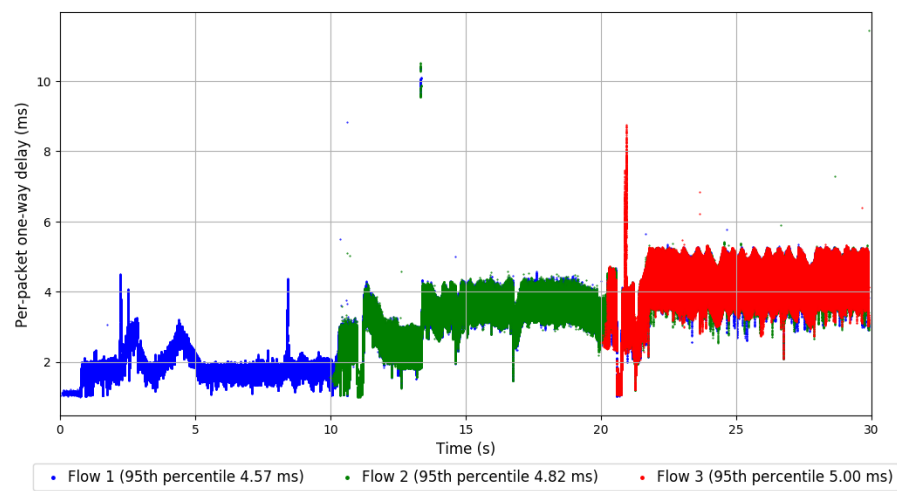
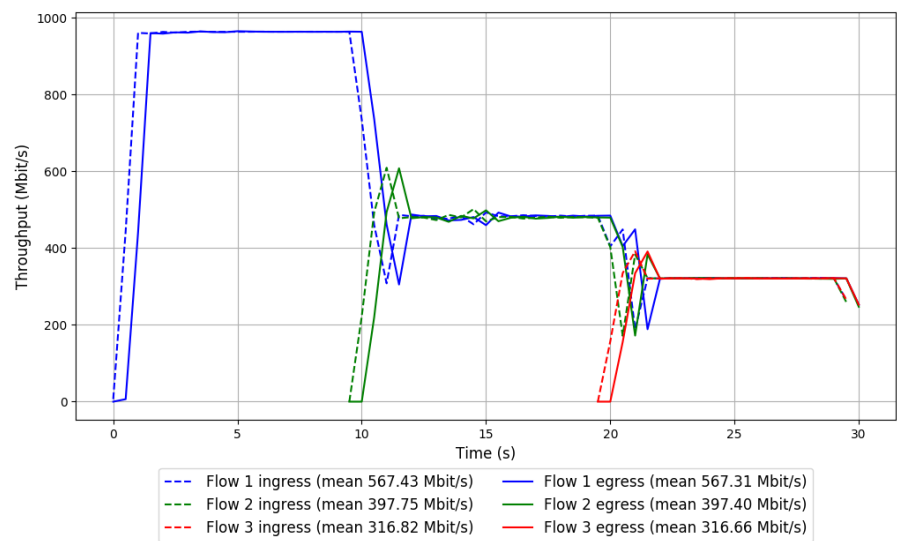
-- Flow 3:

Average throughput: 316.66 Mbit/s

95th percentile per-packet one-way delay: 5.005 ms

Loss rate: 0.27%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2018-07-10 21:42:48

End at: 2018-07-10 21:43:18

Local clock offset: 0.553 ms

Remote clock offset: 2.199 ms

Below is generated by plot.py at 2018-07-11 02:05:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 936.27 Mbit/s

95th percentile per-packet one-way delay: 3.749 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 566.72 Mbit/s

95th percentile per-packet one-way delay: 3.620 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 398.20 Mbit/s

95th percentile per-packet one-way delay: 3.671 ms

Loss rate: 0.09%

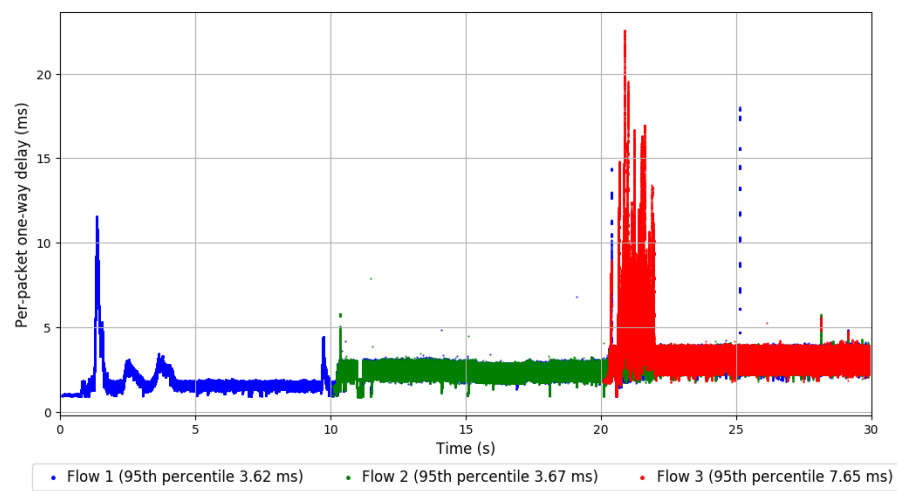
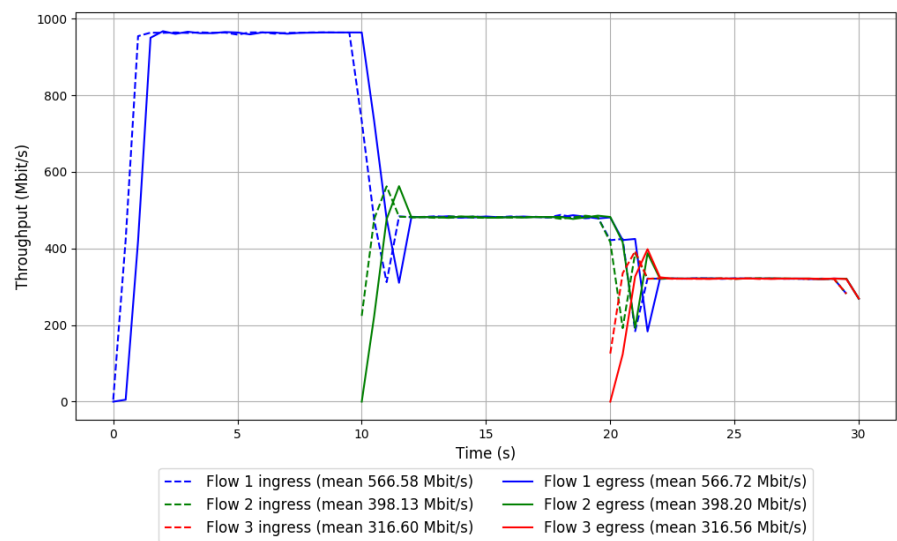
-- Flow 3:

Average throughput: 316.56 Mbit/s

95th percentile per-packet one-way delay: 7.648 ms

Loss rate: 0.23%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2018-07-10 22:09:42

End at: 2018-07-10 22:10:12

Local clock offset: 0.715 ms

Remote clock offset: 2.269 ms

Below is generated by plot.py at 2018-07-11 02:05:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 936.49 Mbit/s

95th percentile per-packet one-way delay: 3.970 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 568.24 Mbit/s

95th percentile per-packet one-way delay: 4.377 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 395.97 Mbit/s

95th percentile per-packet one-way delay: 3.916 ms

Loss rate: 0.12%

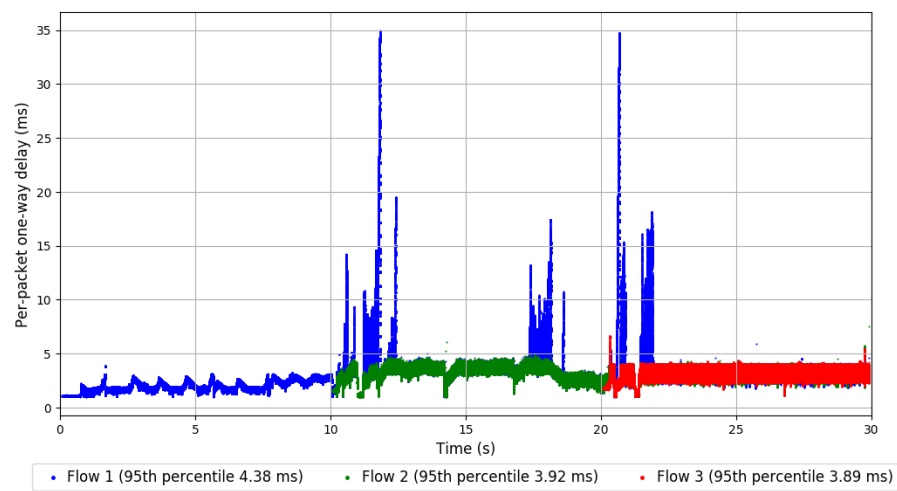
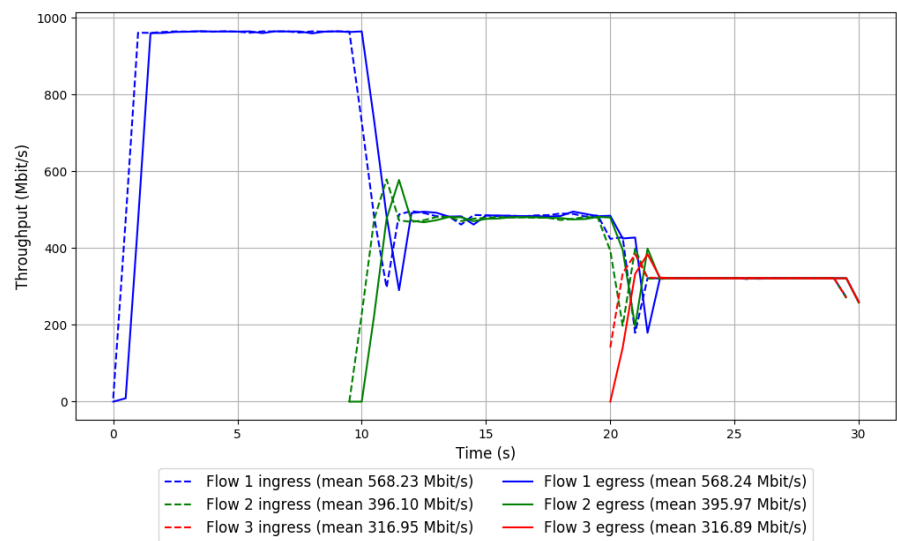
-- Flow 3:

Average throughput: 316.89 Mbit/s

95th percentile per-packet one-way delay: 3.889 ms

Loss rate: 0.22%

Run 5: Report of FillP-Sheep — Data Link



Run 6: Statistics of FillP-Sheep

Start at: 2018-07-10 22:36:43

End at: 2018-07-10 22:37:13

Local clock offset: 0.892 ms

Remote clock offset: 2.169 ms

Below is generated by plot.py at 2018-07-11 02:06:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 939.64 Mbit/s

95th percentile per-packet one-way delay: 5.746 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 570.39 Mbit/s

95th percentile per-packet one-way delay: 30.895 ms

Loss rate: 1.03%

-- Flow 2:

Average throughput: 398.54 Mbit/s

95th percentile per-packet one-way delay: 5.036 ms

Loss rate: 0.31%

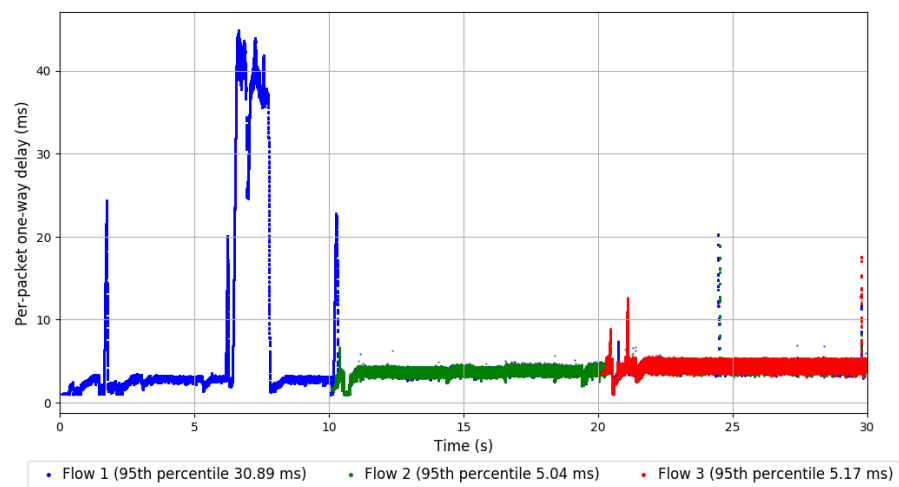
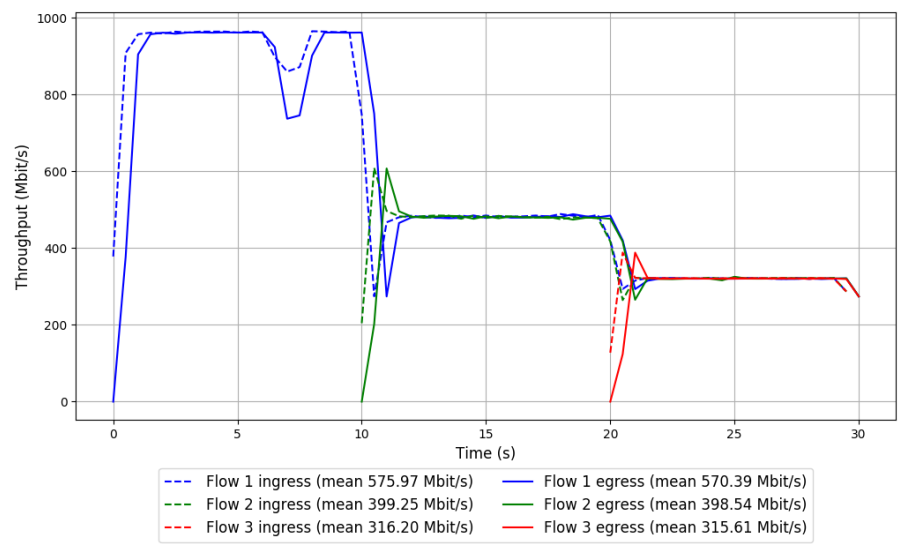
-- Flow 3:

Average throughput: 315.61 Mbit/s

95th percentile per-packet one-way delay: 5.166 ms

Loss rate: 0.46%

Run 6: Report of FillP-Sheep — Data Link



Run 7: Statistics of FillP-Sheep

Start at: 2018-07-10 23:03:40

End at: 2018-07-10 23:04:10

Local clock offset: 0.75 ms

Remote clock offset: 1.943 ms

Below is generated by plot.py at 2018-07-11 02:12:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 945.89 Mbit/s

95th percentile per-packet one-way delay: 29.971 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 577.80 Mbit/s

95th percentile per-packet one-way delay: 30.779 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 397.41 Mbit/s

95th percentile per-packet one-way delay: 4.819 ms

Loss rate: 0.16%

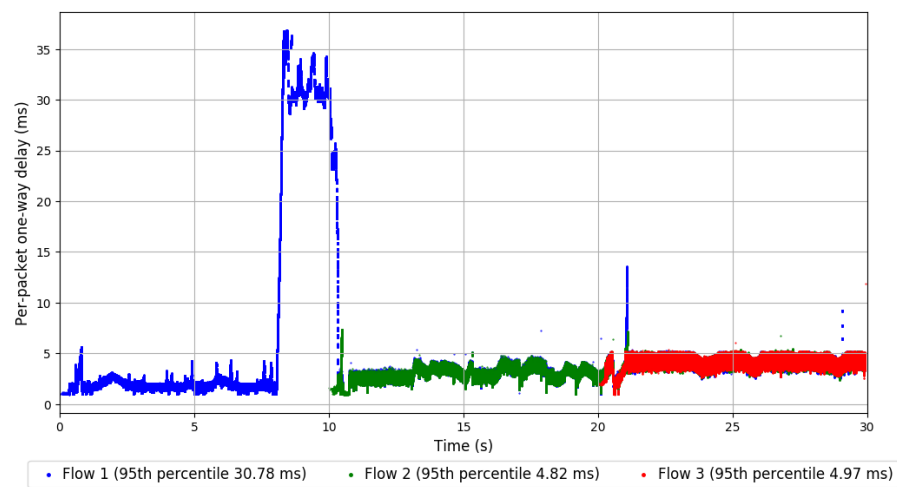
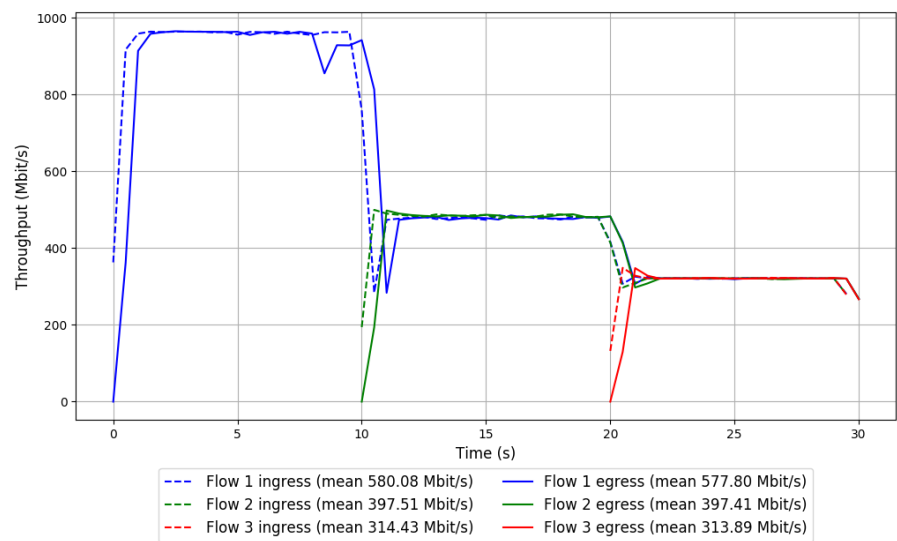
-- Flow 3:

Average throughput: 313.89 Mbit/s

95th percentile per-packet one-way delay: 4.967 ms

Loss rate: 0.34%

Run 7: Report of FillP-Sheep — Data Link



Run 8: Statistics of FillP-Sheep

Start at: 2018-07-10 23:30:29

End at: 2018-07-10 23:30:59

Local clock offset: 0.548 ms

Remote clock offset: 1.766 ms

Below is generated by plot.py at 2018-07-11 02:12:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 947.84 Mbit/s

95th percentile per-packet one-way delay: 3.912 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 580.72 Mbit/s

95th percentile per-packet one-way delay: 3.954 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 394.83 Mbit/s

95th percentile per-packet one-way delay: 3.870 ms

Loss rate: 0.09%

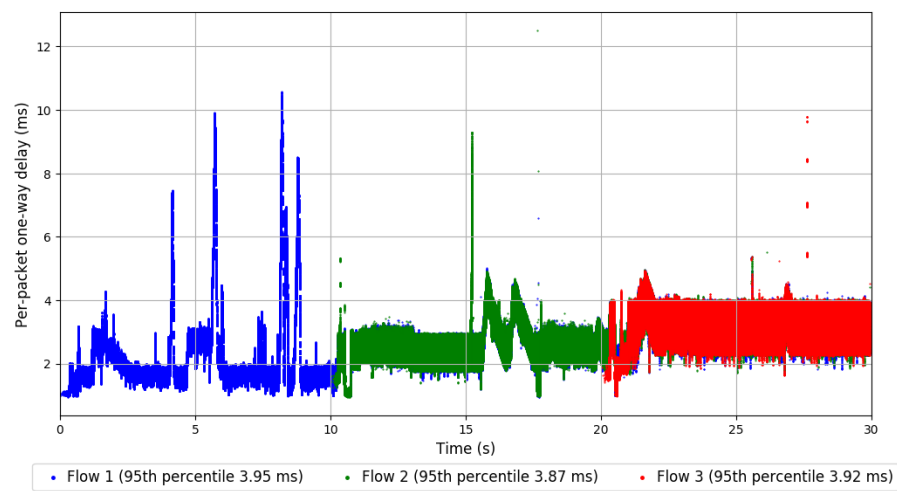
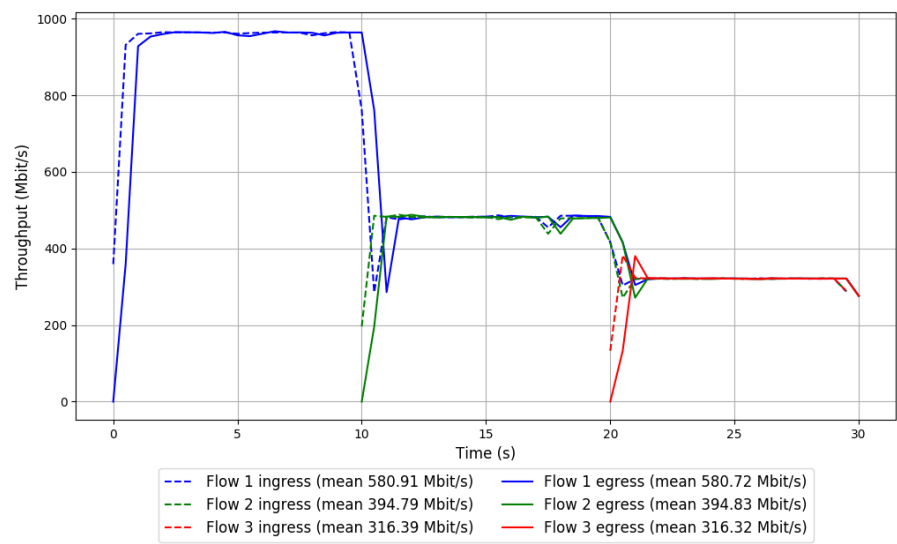
-- Flow 3:

Average throughput: 316.32 Mbit/s

95th percentile per-packet one-way delay: 3.918 ms

Loss rate: 0.23%

Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

Start at: 2018-07-10 23:57:21

End at: 2018-07-10 23:57:51

Local clock offset: 0.563 ms

Remote clock offset: 1.665 ms

Below is generated by plot.py at 2018-07-11 02:17:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 936.73 Mbit/s

95th percentile per-packet one-way delay: 3.719 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 567.89 Mbit/s

95th percentile per-packet one-way delay: 3.541 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 397.39 Mbit/s

95th percentile per-packet one-way delay: 3.777 ms

Loss rate: 0.09%

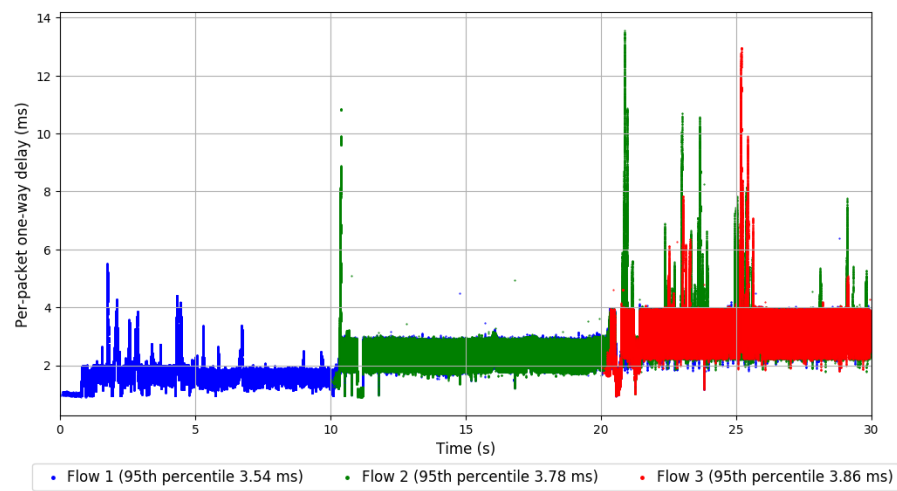
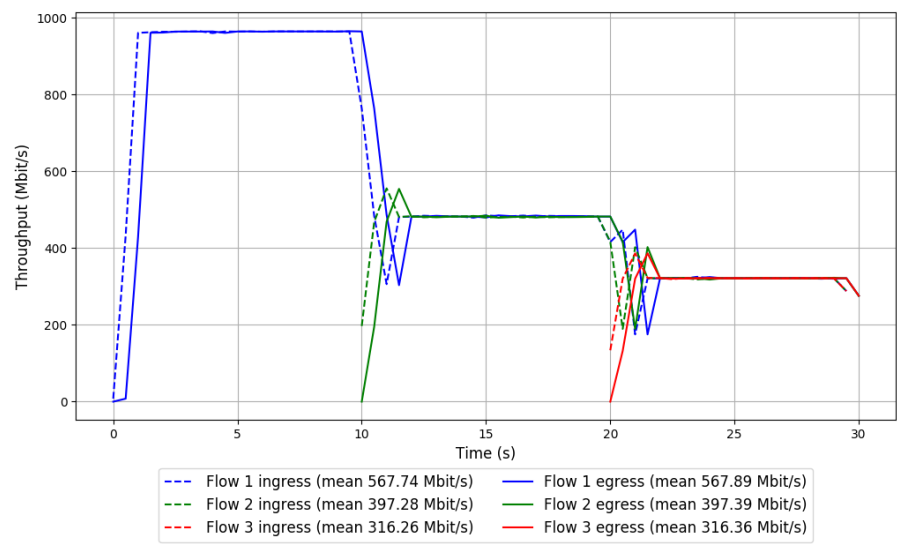
-- Flow 3:

Average throughput: 316.36 Mbit/s

95th percentile per-packet one-way delay: 3.860 ms

Loss rate: 0.22%

Run 9: Report of FillP-Sheep — Data Link



Run 10: Statistics of FillP-Sheep

Start at: 2018-07-11 00:24:14

End at: 2018-07-11 00:24:44

Local clock offset: 0.816 ms

Remote clock offset: 1.528 ms

Below is generated by plot.py at 2018-07-11 02:18:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 944.63 Mbit/s

95th percentile per-packet one-way delay: 24.924 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 575.54 Mbit/s

95th percentile per-packet one-way delay: 31.069 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 397.26 Mbit/s

95th percentile per-packet one-way delay: 3.771 ms

Loss rate: 0.09%

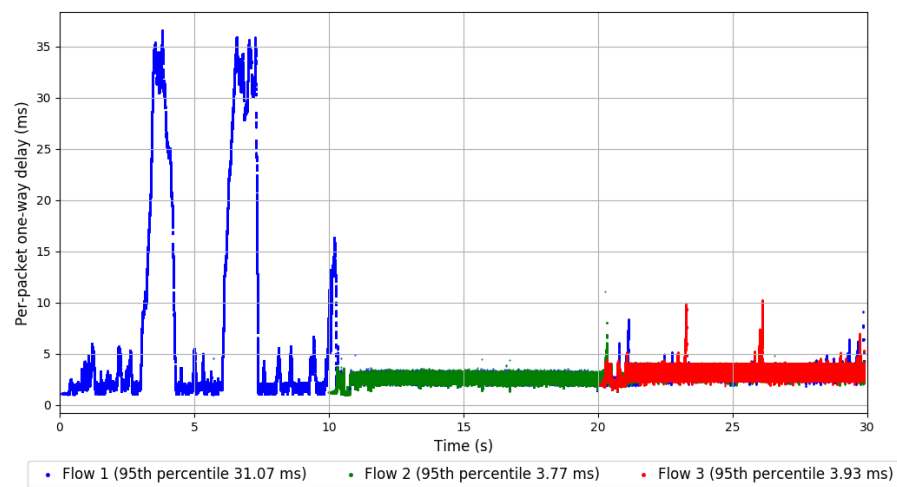
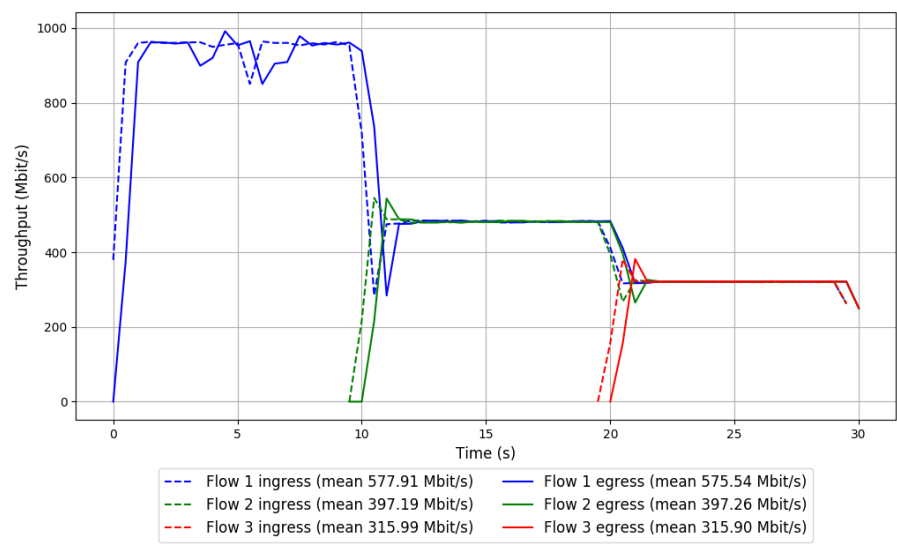
-- Flow 3:

Average throughput: 315.90 Mbit/s

95th percentile per-packet one-way delay: 3.926 ms

Loss rate: 0.23%

Run 10: Report of FillP-Sheep — Data Link

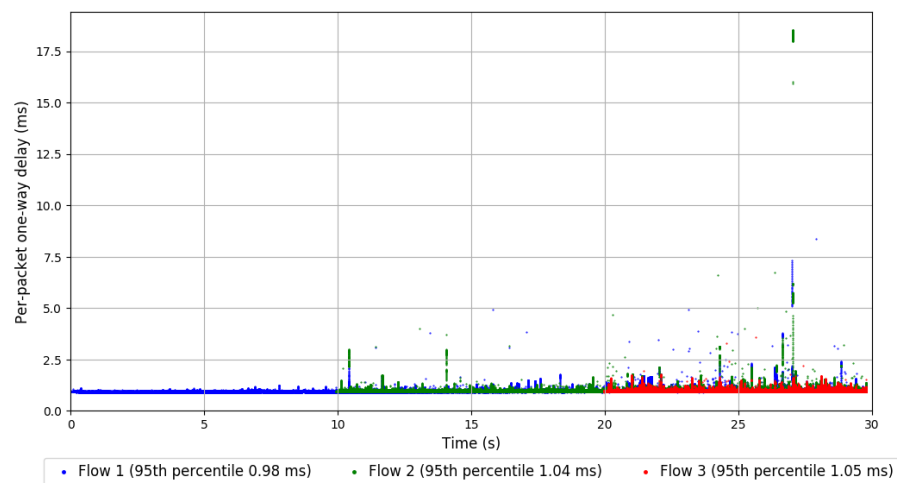
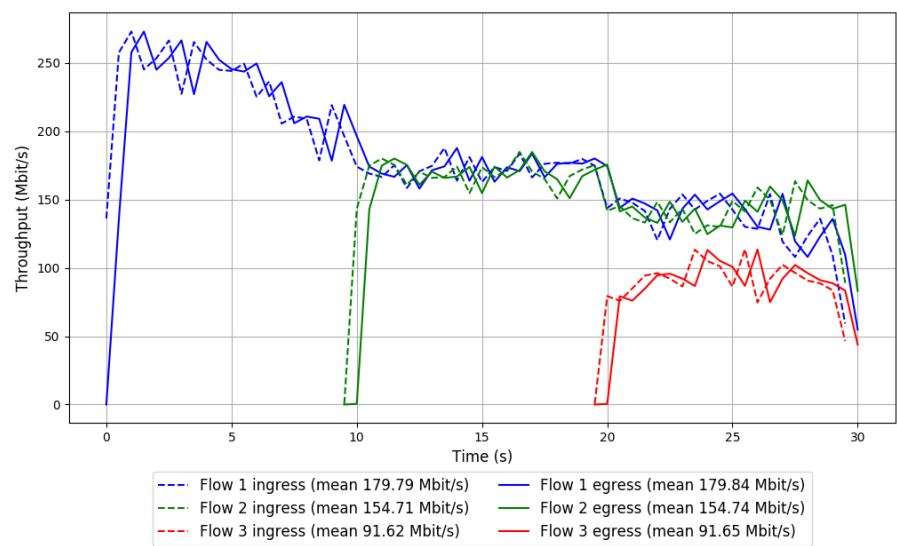


```
Run 1: Statistics of Indigo

Start at: 2018-07-10 20:25:18
End at: 2018-07-10 20:25:48
Local clock offset: 0.656 ms
Remote clock offset: 0.421 ms

# Below is generated by plot.py at 2018-07-11 02:18:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 313.15 Mbit/s
95th percentile per-packet one-way delay: 1.007 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 179.84 Mbit/s
95th percentile per-packet one-way delay: 0.979 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 154.74 Mbit/s
95th percentile per-packet one-way delay: 1.036 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 91.65 Mbit/s
95th percentile per-packet one-way delay: 1.053 ms
Loss rate: 0.15%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-07-10 20:52:18

End at: 2018-07-10 20:52:48

Local clock offset: 0.5 ms

Remote clock offset: 1.184 ms

Below is generated by plot.py at 2018-07-11 02:18:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 276.66 Mbit/s

95th percentile per-packet one-way delay: 1.036 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 146.75 Mbit/s

95th percentile per-packet one-way delay: 1.031 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 155.14 Mbit/s

95th percentile per-packet one-way delay: 1.039 ms

Loss rate: 0.07%

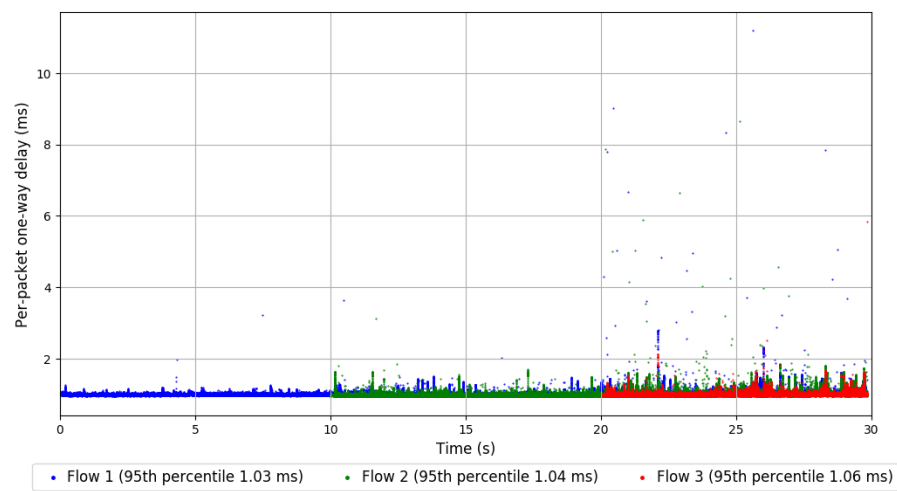
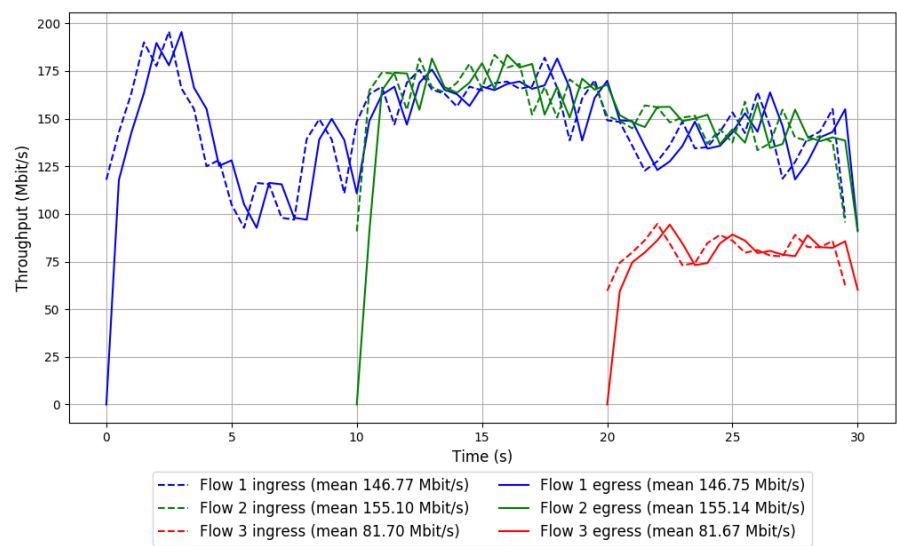
-- Flow 3:

Average throughput: 81.67 Mbit/s

95th percentile per-packet one-way delay: 1.059 ms

Loss rate: 0.18%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-07-10 21:19:05

End at: 2018-07-10 21:19:35

Local clock offset: 0.665 ms

Remote clock offset: 1.819 ms

Below is generated by plot.py at 2018-07-11 02:18:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 288.80 Mbit/s

95th percentile per-packet one-way delay: 1.052 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 156.93 Mbit/s

95th percentile per-packet one-way delay: 1.037 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 154.95 Mbit/s

95th percentile per-packet one-way delay: 1.063 ms

Loss rate: 0.06%

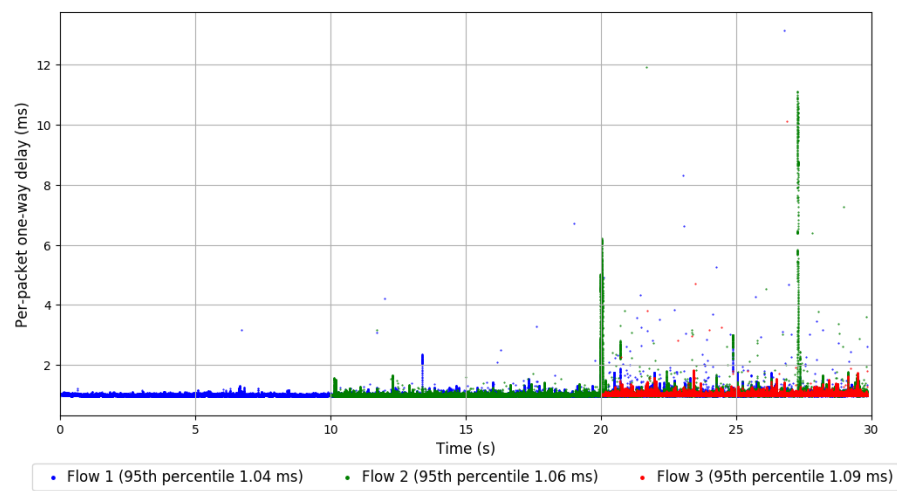
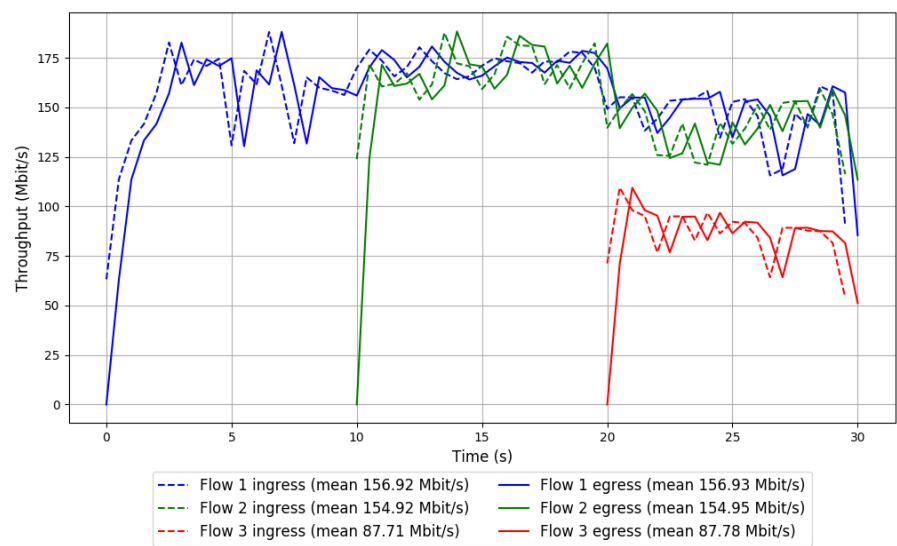
-- Flow 3:

Average throughput: 87.78 Mbit/s

95th percentile per-packet one-way delay: 1.090 ms

Loss rate: 0.19%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-07-10 21:46:08

End at: 2018-07-10 21:46:38

Local clock offset: 0.629 ms

Remote clock offset: 2.25 ms

Below is generated by plot.py at 2018-07-11 02:18:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 303.28 Mbit/s

95th percentile per-packet one-way delay: 1.117 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 163.05 Mbit/s

95th percentile per-packet one-way delay: 1.092 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 153.57 Mbit/s

95th percentile per-packet one-way delay: 1.133 ms

Loss rate: 0.07%

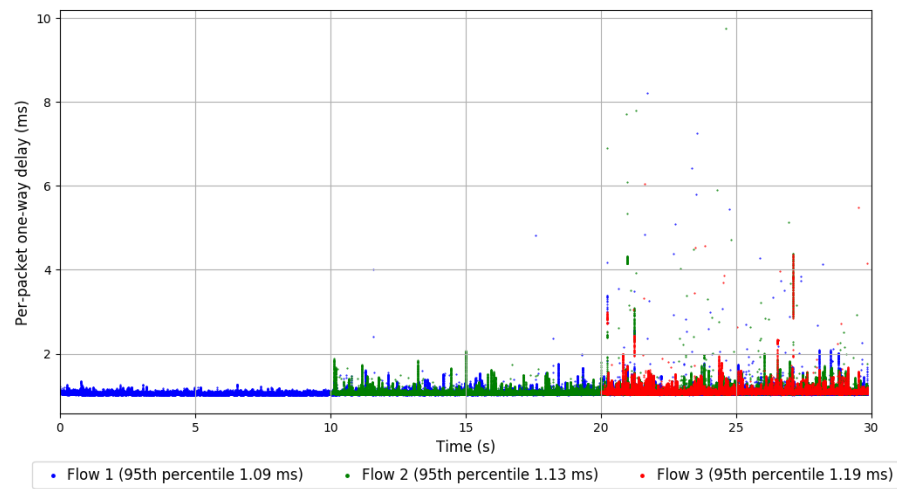
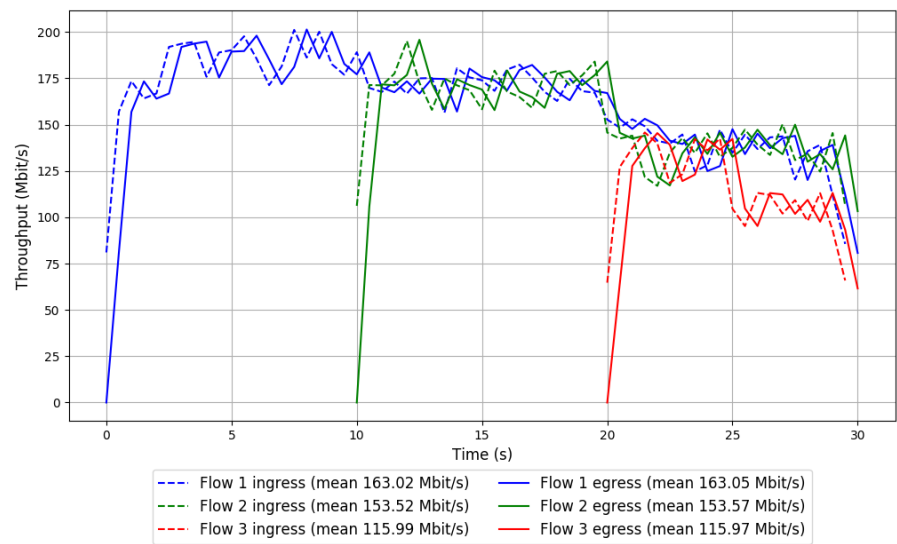
-- Flow 3:

Average throughput: 115.97 Mbit/s

95th percentile per-packet one-way delay: 1.186 ms

Loss rate: 0.19%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-07-10 22:13:02

End at: 2018-07-10 22:13:32

Local clock offset: 0.726 ms

Remote clock offset: 2.247 ms

Below is generated by plot.py at 2018-07-11 02:18:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 302.48 Mbit/s

95th percentile per-packet one-way delay: 1.129 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 153.50 Mbit/s

95th percentile per-packet one-way delay: 1.108 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 155.40 Mbit/s

95th percentile per-packet one-way delay: 1.145 ms

Loss rate: 0.09%

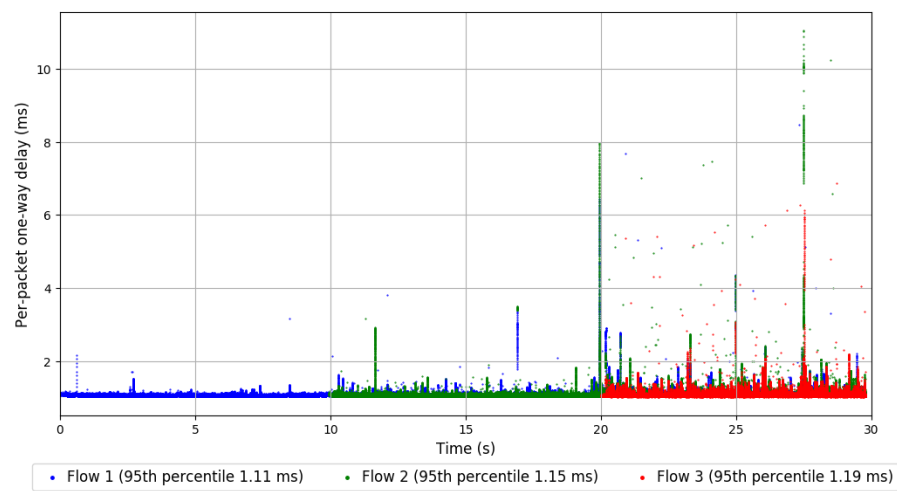
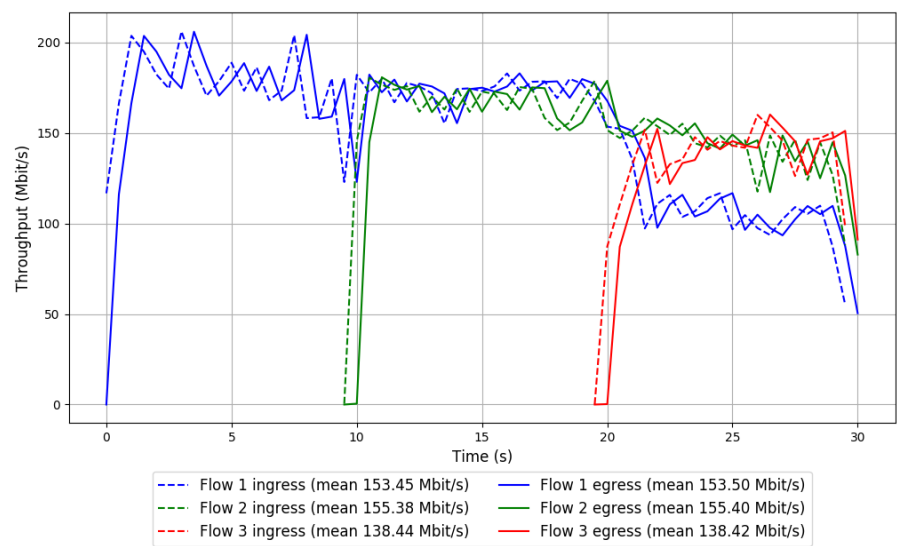
-- Flow 3:

Average throughput: 138.42 Mbit/s

95th percentile per-packet one-way delay: 1.194 ms

Loss rate: 0.27%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-07-10 22:40:03

End at: 2018-07-10 22:40:33

Local clock offset: 0.816 ms

Remote clock offset: 2.125 ms

Below is generated by plot.py at 2018-07-11 02:18:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 300.99 Mbit/s

95th percentile per-packet one-way delay: 1.047 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 163.81 Mbit/s

95th percentile per-packet one-way delay: 1.029 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 157.44 Mbit/s

95th percentile per-packet one-way delay: 1.071 ms

Loss rate: 0.08%

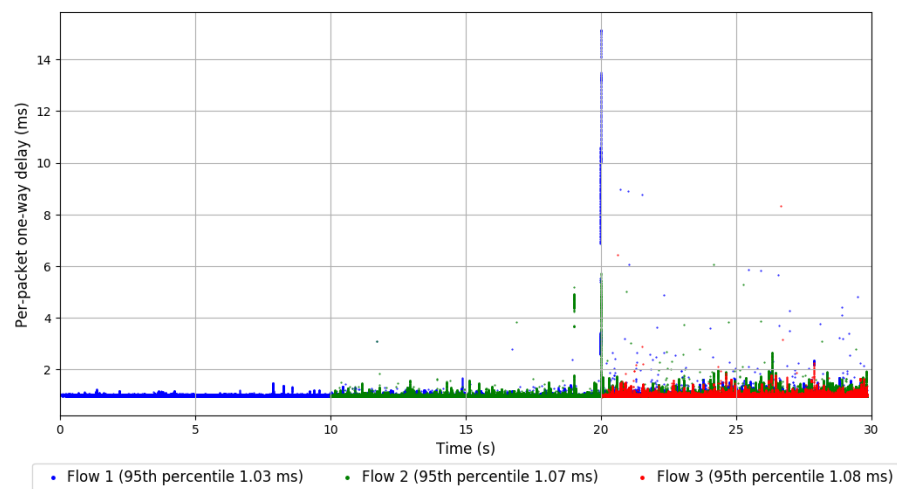
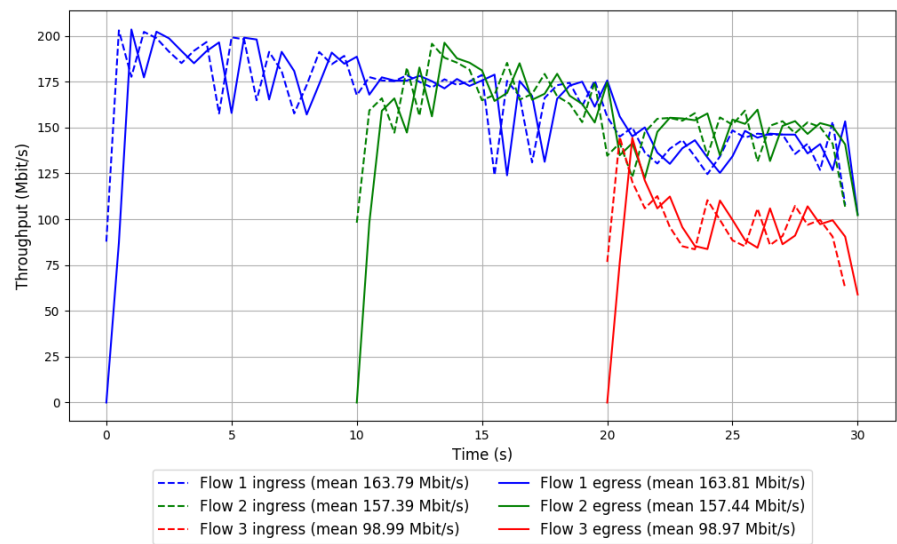
-- Flow 3:

Average throughput: 98.97 Mbit/s

95th percentile per-packet one-way delay: 1.080 ms

Loss rate: 0.19%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-07-10 23:07:02

End at: 2018-07-10 23:07:32

Local clock offset: 0.725 ms

Remote clock offset: 1.859 ms

Below is generated by plot.py at 2018-07-11 02:18:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 305.73 Mbit/s

95th percentile per-packet one-way delay: 1.141 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 164.34 Mbit/s

95th percentile per-packet one-way delay: 1.120 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 146.59 Mbit/s

95th percentile per-packet one-way delay: 1.158 ms

Loss rate: 0.08%

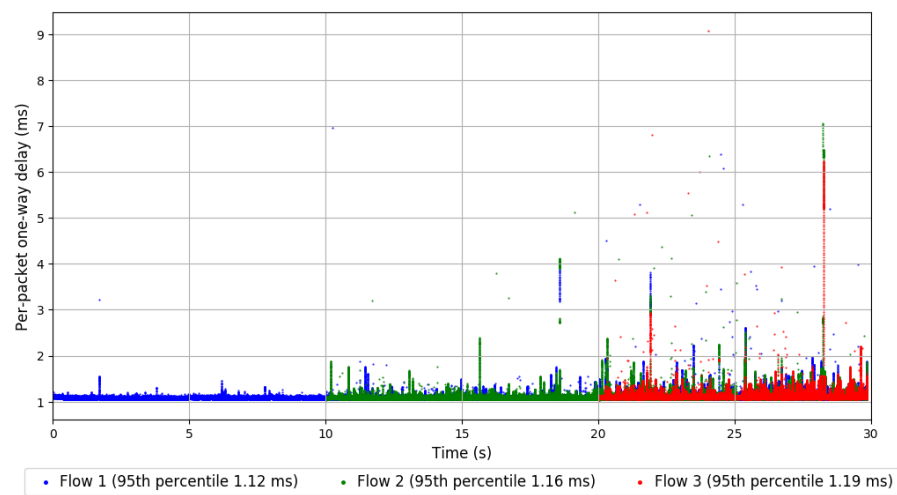
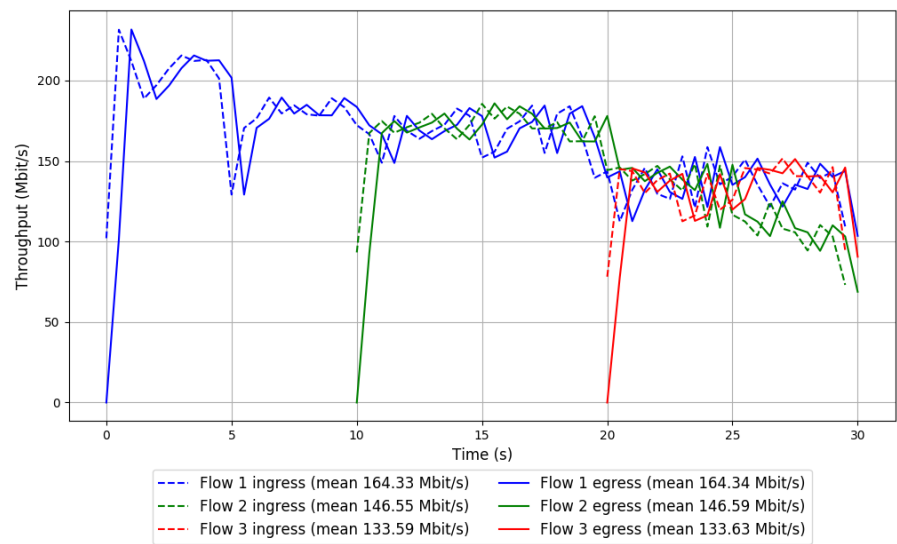
-- Flow 3:

Average throughput: 133.63 Mbit/s

95th percentile per-packet one-way delay: 1.194 ms

Loss rate: 0.17%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-07-10 23:33:50

End at: 2018-07-10 23:34:20

Local clock offset: 0.443 ms

Remote clock offset: 1.774 ms

Below is generated by plot.py at 2018-07-11 02:18:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 288.39 Mbit/s

95th percentile per-packet one-way delay: 0.974 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 154.63 Mbit/s

95th percentile per-packet one-way delay: 0.966 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 152.06 Mbit/s

95th percentile per-packet one-way delay: 0.988 ms

Loss rate: 0.09%

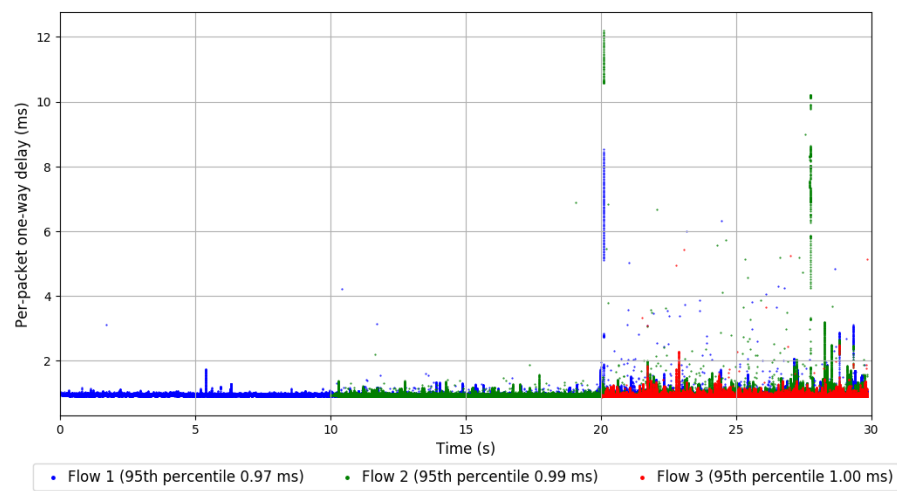
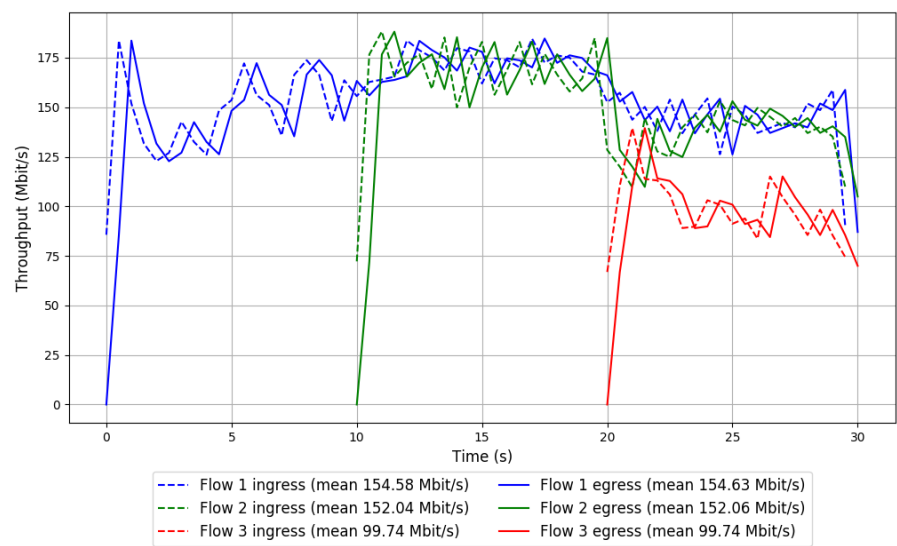
-- Flow 3:

Average throughput: 99.74 Mbit/s

95th percentile per-packet one-way delay: 0.999 ms

Loss rate: 0.23%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-07-11 00:00:39

End at: 2018-07-11 00:01:10

Local clock offset: 0.518 ms

Remote clock offset: 1.632 ms

Below is generated by plot.py at 2018-07-11 02:18:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 278.55 Mbit/s

95th percentile per-packet one-way delay: 1.054 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 146.70 Mbit/s

95th percentile per-packet one-way delay: 1.041 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 159.06 Mbit/s

95th percentile per-packet one-way delay: 1.073 ms

Loss rate: 0.11%

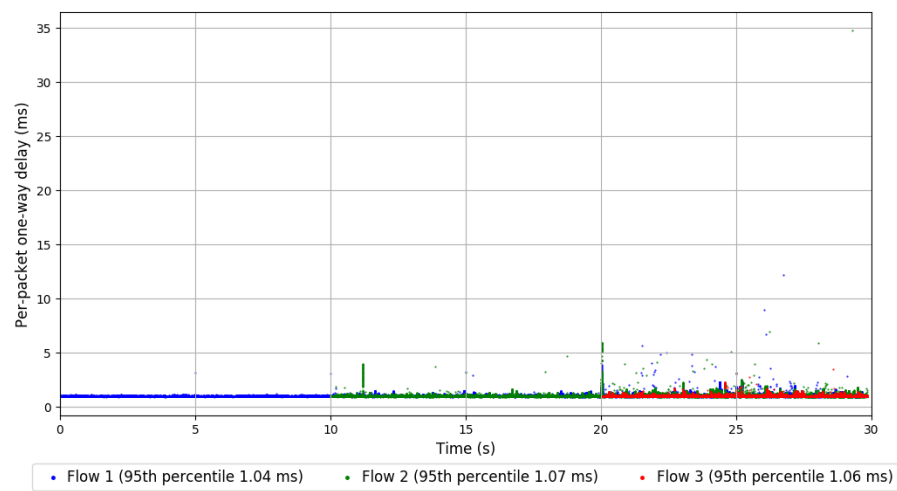
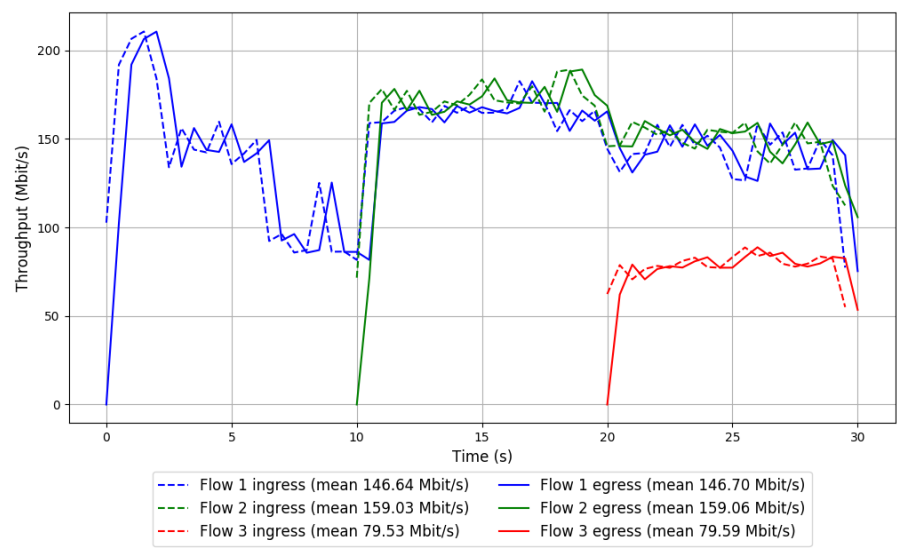
-- Flow 3:

Average throughput: 79.59 Mbit/s

95th percentile per-packet one-way delay: 1.061 ms

Loss rate: 0.10%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-07-11 00:27:38

End at: 2018-07-11 00:28:08

Local clock offset: 0.741 ms

Remote clock offset: 1.57 ms

Below is generated by plot.py at 2018-07-11 02:18:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 298.83 Mbit/s

95th percentile per-packet one-way delay: 0.961 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 162.64 Mbit/s

95th percentile per-packet one-way delay: 0.948 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 157.20 Mbit/s

95th percentile per-packet one-way delay: 0.975 ms

Loss rate: 0.08%

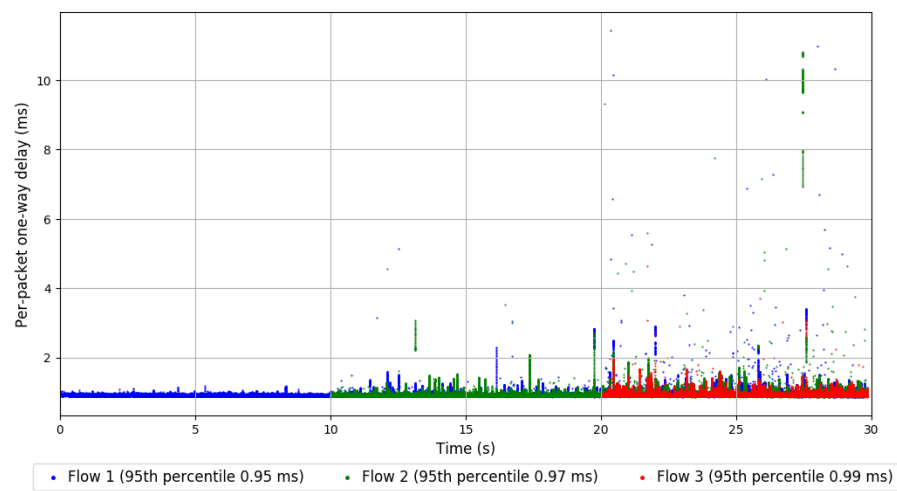
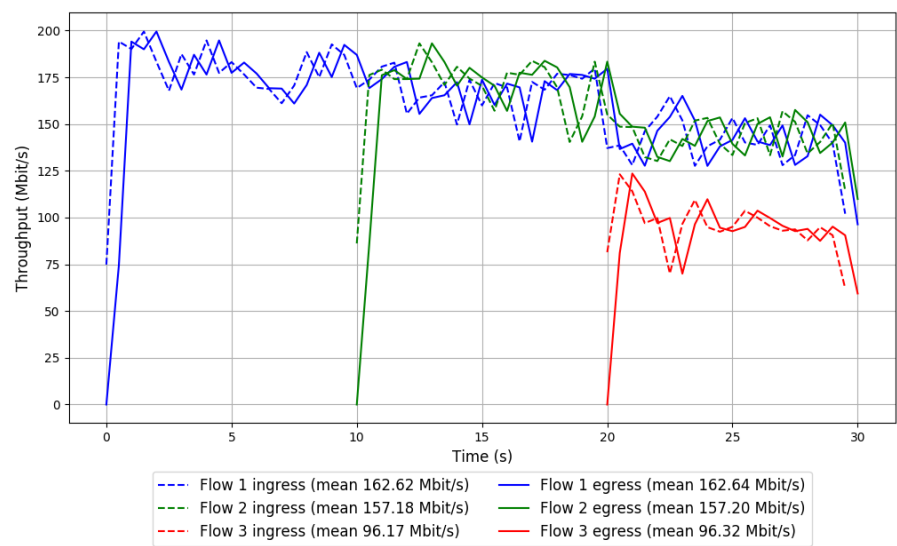
-- Flow 3:

Average throughput: 96.32 Mbit/s

95th percentile per-packet one-way delay: 0.995 ms

Loss rate: 0.14%

Run 10: Report of Indigo — Data Link

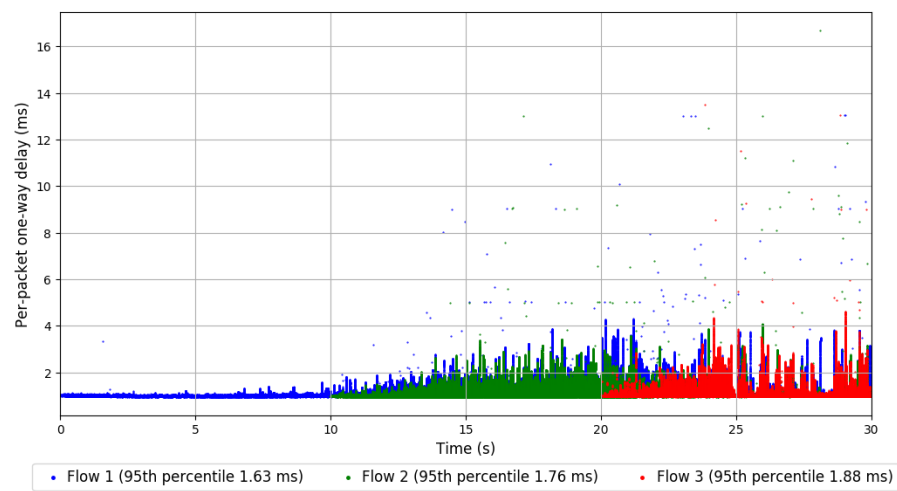
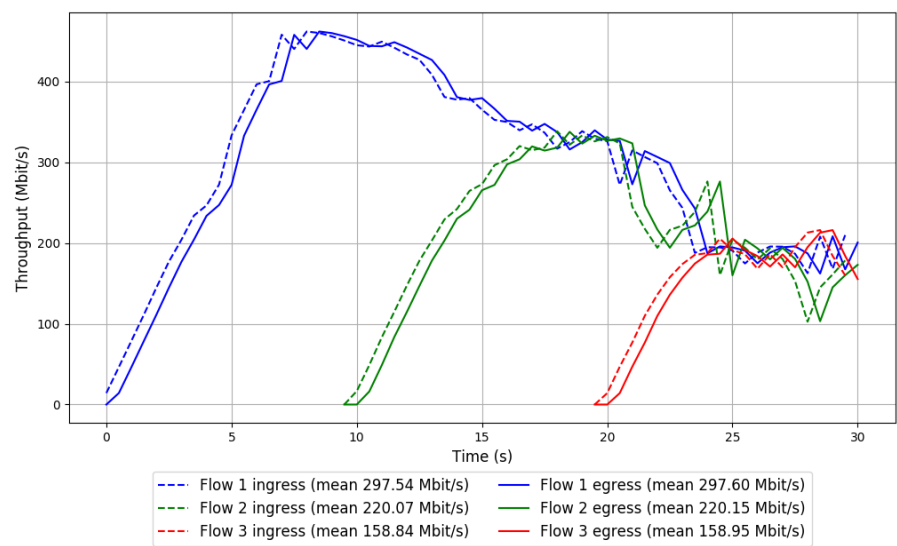


```
Run 1: Statistics of LEDBAT

Start at: 2018-07-10 20:28:32
End at: 2018-07-10 20:29:02
Local clock offset: 0.589 ms
Remote clock offset: 0.469 ms

# Below is generated by plot.py at 2018-07-11 02:18:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 497.11 Mbit/s
95th percentile per-packet one-way delay: 1.701 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 297.60 Mbit/s
95th percentile per-packet one-way delay: 1.629 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 220.15 Mbit/s
95th percentile per-packet one-way delay: 1.764 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 158.95 Mbit/s
95th percentile per-packet one-way delay: 1.879 ms
Loss rate: 0.16%
```


Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-07-10 20:55:32

End at: 2018-07-10 20:56:02

Local clock offset: 0.53 ms

Remote clock offset: 1.319 ms

Below is generated by plot.py at 2018-07-11 02:18:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 496.88 Mbit/s

95th percentile per-packet one-way delay: 1.696 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 299.62 Mbit/s

95th percentile per-packet one-way delay: 1.586 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 218.87 Mbit/s

95th percentile per-packet one-way delay: 1.862 ms

Loss rate: 0.05%

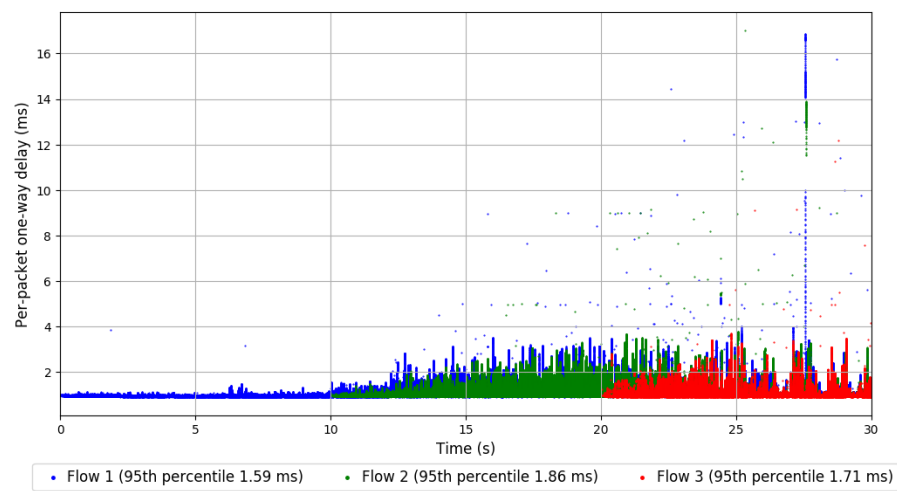
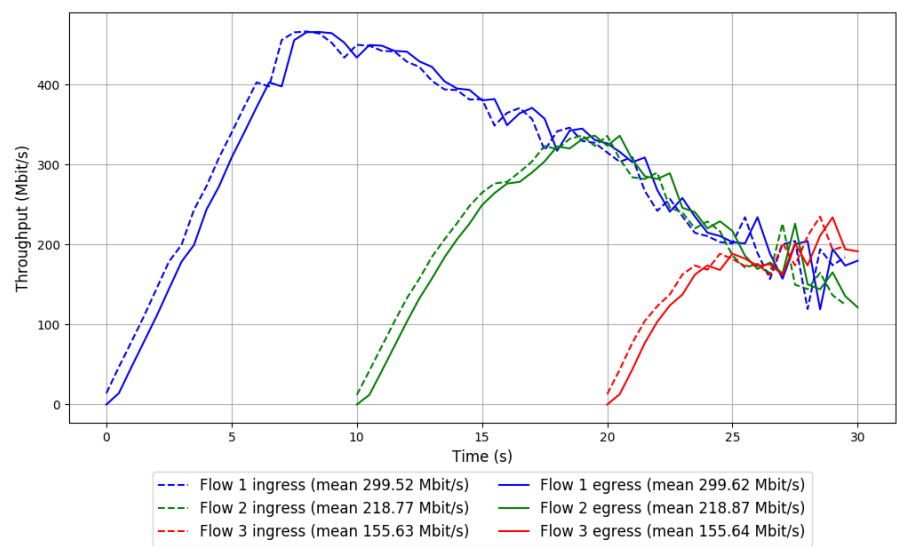
-- Flow 3:

Average throughput: 155.64 Mbit/s

95th percentile per-packet one-way delay: 1.707 ms

Loss rate: 0.21%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-07-10 21:22:20

End at: 2018-07-10 21:22:50

Local clock offset: 0.691 ms

Remote clock offset: 1.822 ms

Below is generated by plot.py at 2018-07-11 02:18:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 482.26 Mbit/s

95th percentile per-packet one-way delay: 1.865 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 283.59 Mbit/s

95th percentile per-packet one-way delay: 1.751 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 222.35 Mbit/s

95th percentile per-packet one-way delay: 2.048 ms

Loss rate: 0.07%

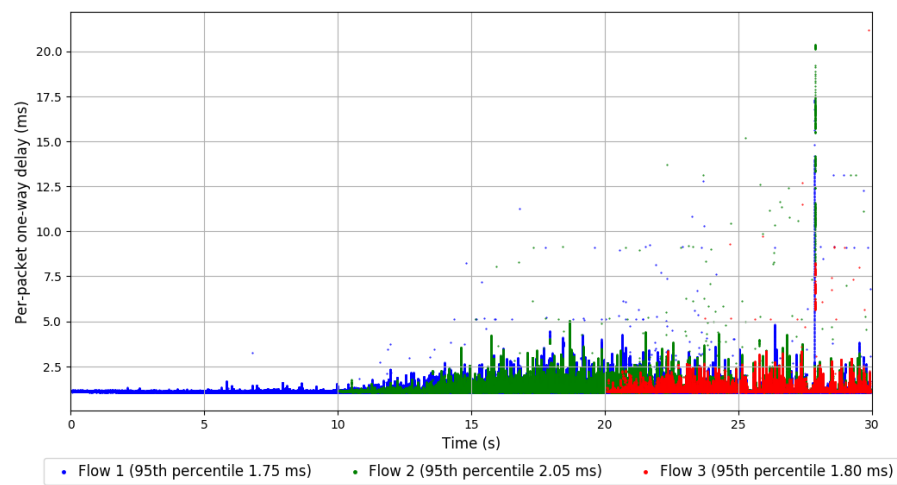
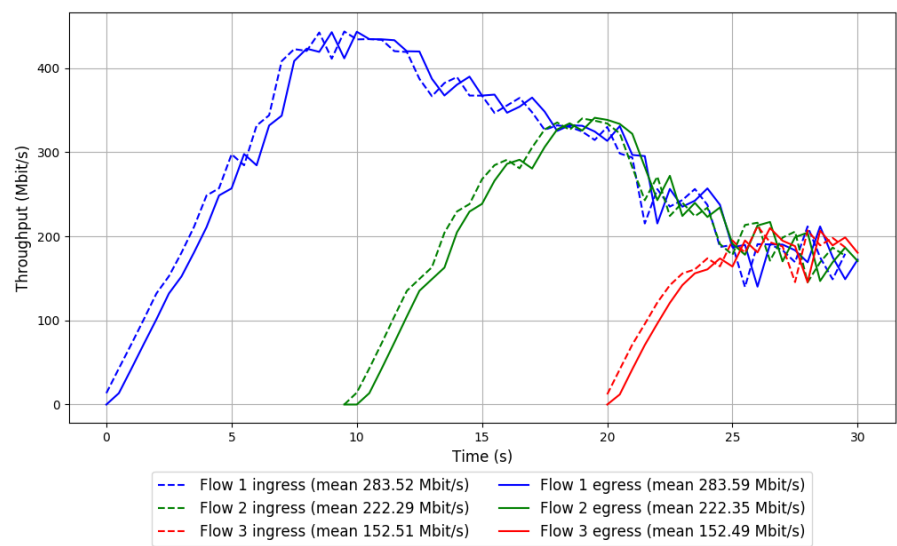
-- Flow 3:

Average throughput: 152.49 Mbit/s

95th percentile per-packet one-way delay: 1.800 ms

Loss rate: 0.21%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-07-10 21:49:25

End at: 2018-07-10 21:49:55

Local clock offset: 0.541 ms

Remote clock offset: 2.263 ms

Below is generated by plot.py at 2018-07-11 02:19:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 491.35 Mbit/s

95th percentile per-packet one-way delay: 1.872 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 289.68 Mbit/s

95th percentile per-packet one-way delay: 1.725 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 224.74 Mbit/s

95th percentile per-packet one-way delay: 2.029 ms

Loss rate: 0.08%

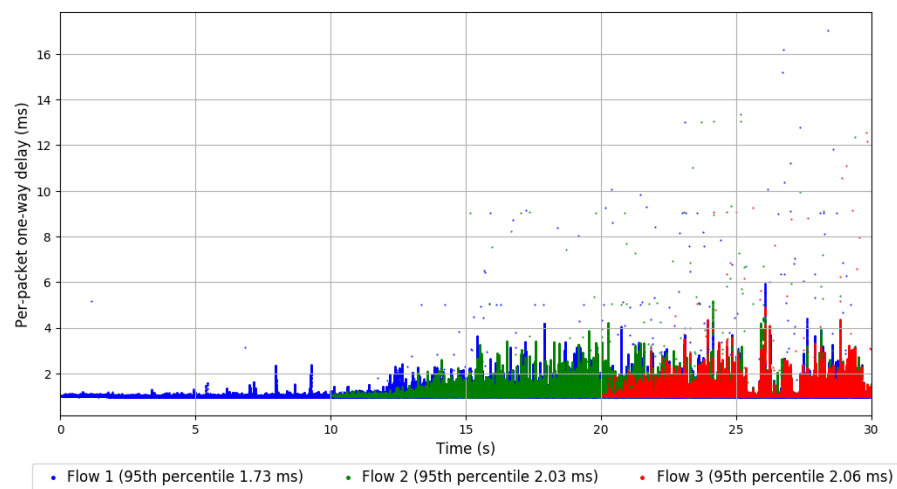
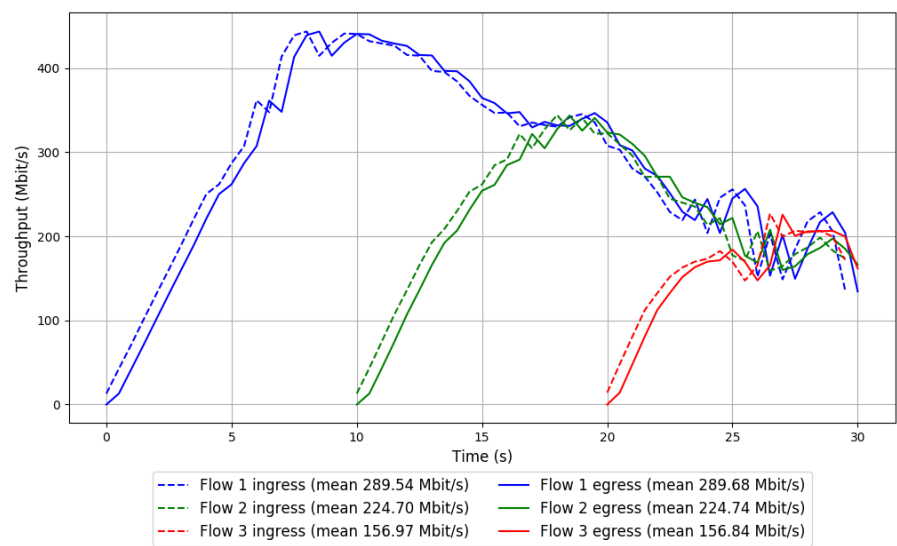
-- Flow 3:

Average throughput: 156.84 Mbit/s

95th percentile per-packet one-way delay: 2.059 ms

Loss rate: 0.33%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-07-10 22:16:20

End at: 2018-07-10 22:16:50

Local clock offset: 0.741 ms

Remote clock offset: 2.258 ms

Below is generated by plot.py at 2018-07-11 02:20:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 488.27 Mbit/s

95th percentile per-packet one-way delay: 1.891 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 289.44 Mbit/s

95th percentile per-packet one-way delay: 1.806 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 224.40 Mbit/s

95th percentile per-packet one-way delay: 2.014 ms

Loss rate: 0.13%

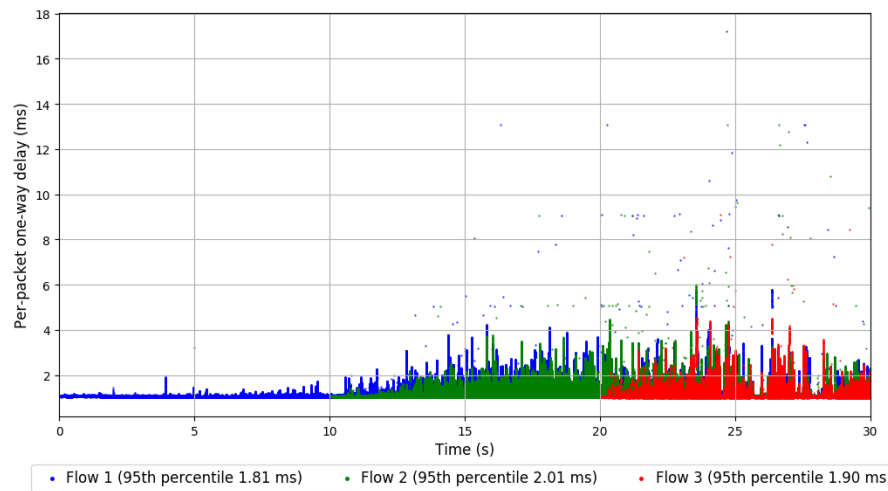
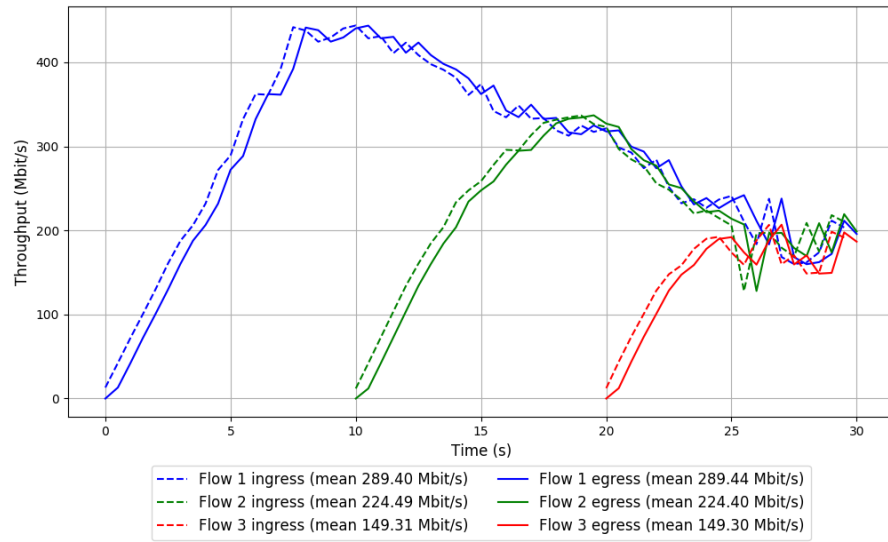
-- Flow 3:

Average throughput: 149.30 Mbit/s

95th percentile per-packet one-way delay: 1.899 ms

Loss rate: 0.22%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-07-10 22:43:21

End at: 2018-07-10 22:43:51

Local clock offset: 0.815 ms

Remote clock offset: 2.106 ms

Below is generated by plot.py at 2018-07-11 02:20:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 468.26 Mbit/s

95th percentile per-packet one-way delay: 1.702 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 268.46 Mbit/s

95th percentile per-packet one-way delay: 1.571 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 225.06 Mbit/s

95th percentile per-packet one-way delay: 1.856 ms

Loss rate: 0.13%

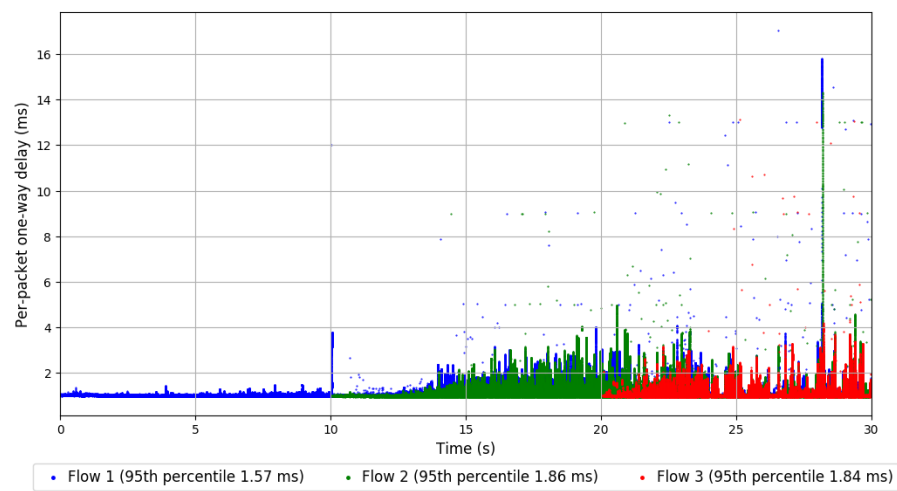
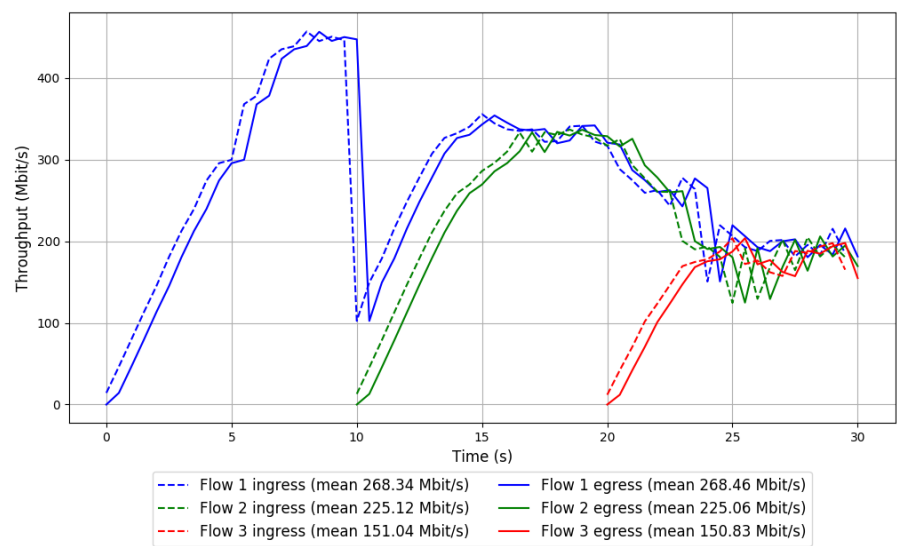
-- Flow 3:

Average throughput: 150.83 Mbit/s

95th percentile per-packet one-way delay: 1.842 ms

Loss rate: 0.35%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-07-10 23:10:19

End at: 2018-07-10 23:10:49

Local clock offset: 0.683 ms

Remote clock offset: 1.821 ms

Below is generated by plot.py at 2018-07-11 02:23:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 480.01 Mbit/s

95th percentile per-packet one-way delay: 1.754 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 286.67 Mbit/s

95th percentile per-packet one-way delay: 1.701 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 219.70 Mbit/s

95th percentile per-packet one-way delay: 1.832 ms

Loss rate: 0.06%

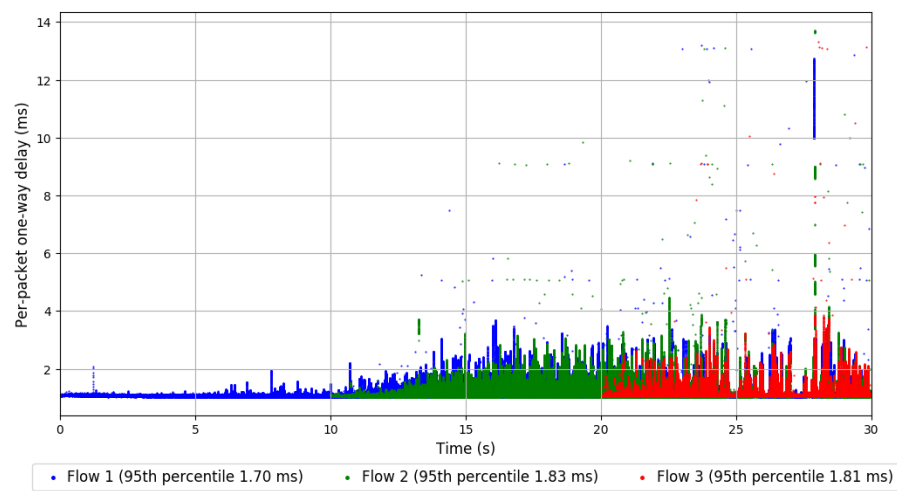
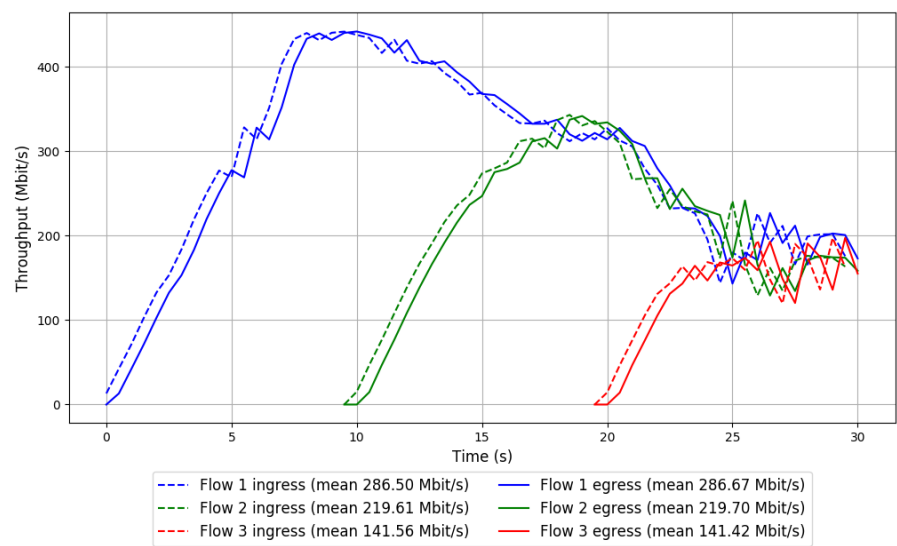
-- Flow 3:

Average throughput: 141.42 Mbit/s

95th percentile per-packet one-way delay: 1.806 ms

Loss rate: 0.29%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-07-10 23:37:06

End at: 2018-07-10 23:37:36

Local clock offset: 0.526 ms

Remote clock offset: 1.709 ms

Below is generated by plot.py at 2018-07-11 02:23:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 485.48 Mbit/s

95th percentile per-packet one-way delay: 1.897 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 284.23 Mbit/s

95th percentile per-packet one-way delay: 1.811 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 225.16 Mbit/s

95th percentile per-packet one-way delay: 2.025 ms

Loss rate: 0.12%

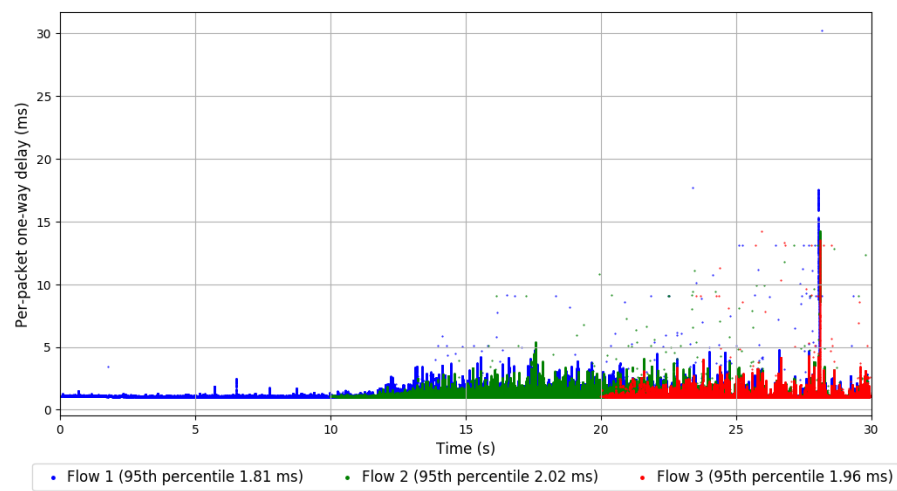
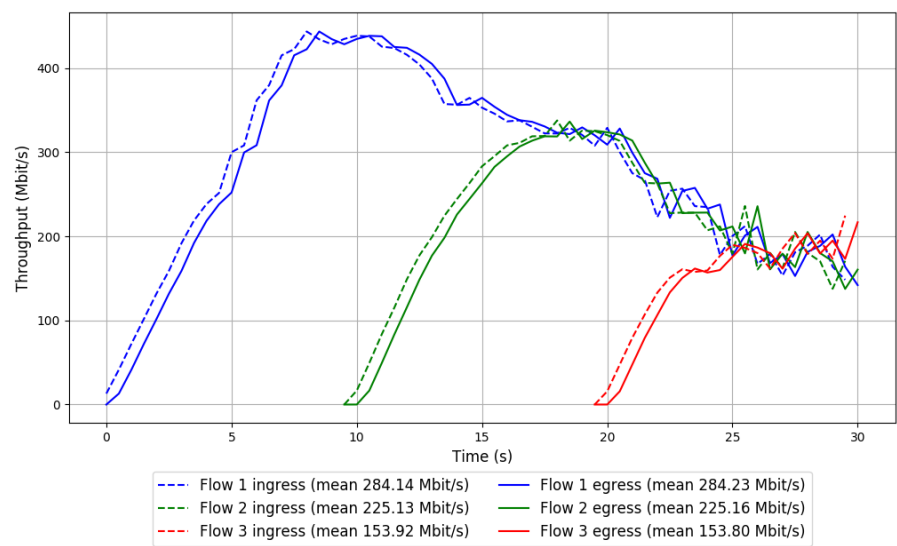
-- Flow 3:

Average throughput: 153.80 Mbit/s

95th percentile per-packet one-way delay: 1.963 ms

Loss rate: 0.27%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-07-11 00:03:56

End at: 2018-07-11 00:04:26

Local clock offset: 0.628 ms

Remote clock offset: 1.636 ms

Below is generated by plot.py at 2018-07-11 02:23:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 504.38 Mbit/s

95th percentile per-packet one-way delay: 1.787 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 321.72 Mbit/s

95th percentile per-packet one-way delay: 1.751 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 191.39 Mbit/s

95th percentile per-packet one-way delay: 1.860 ms

Loss rate: 0.08%

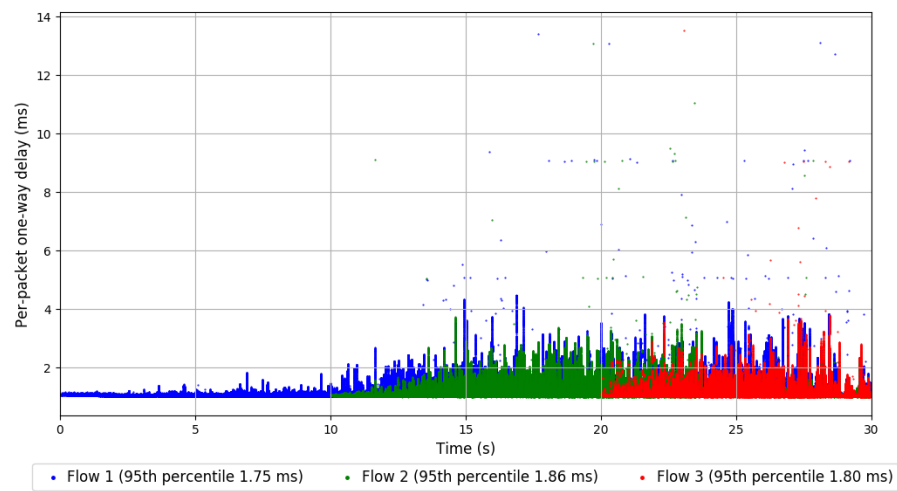
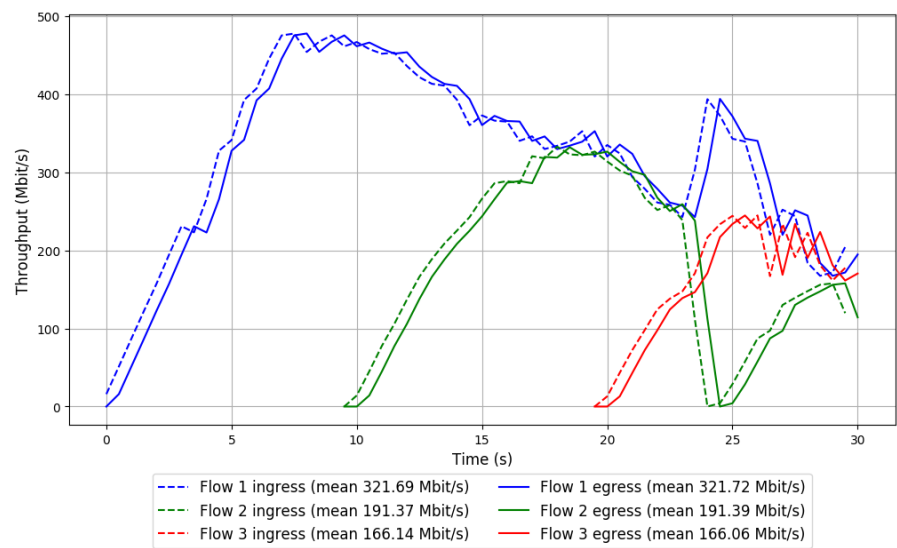
-- Flow 3:

Average throughput: 166.06 Mbit/s

95th percentile per-packet one-way delay: 1.800 ms

Loss rate: 0.22%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-07-11 00:30:55

End at: 2018-07-11 00:31:25

Local clock offset: 0.852 ms

Remote clock offset: 1.445 ms

Below is generated by plot.py at 2018-07-11 02:23:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 483.01 Mbit/s

95th percentile per-packet one-way delay: 1.817 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 288.49 Mbit/s

95th percentile per-packet one-way delay: 1.679 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 221.50 Mbit/s

95th percentile per-packet one-way delay: 2.062 ms

Loss rate: 0.05%

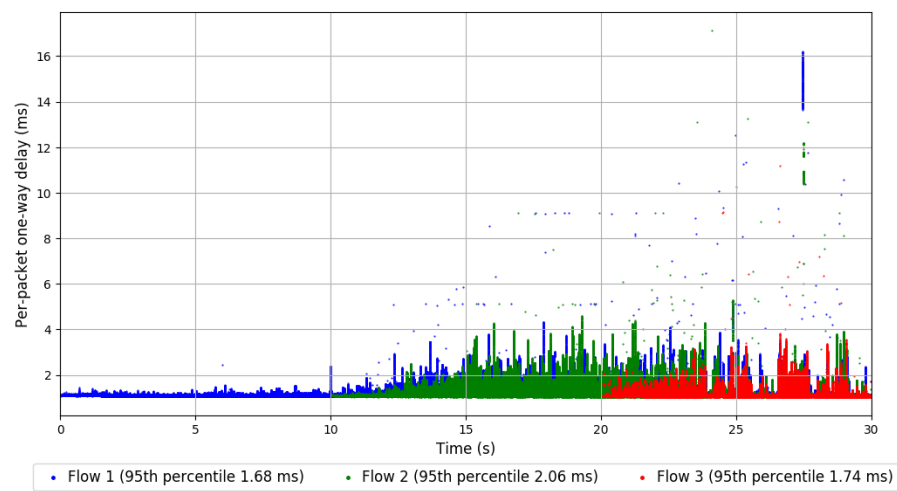
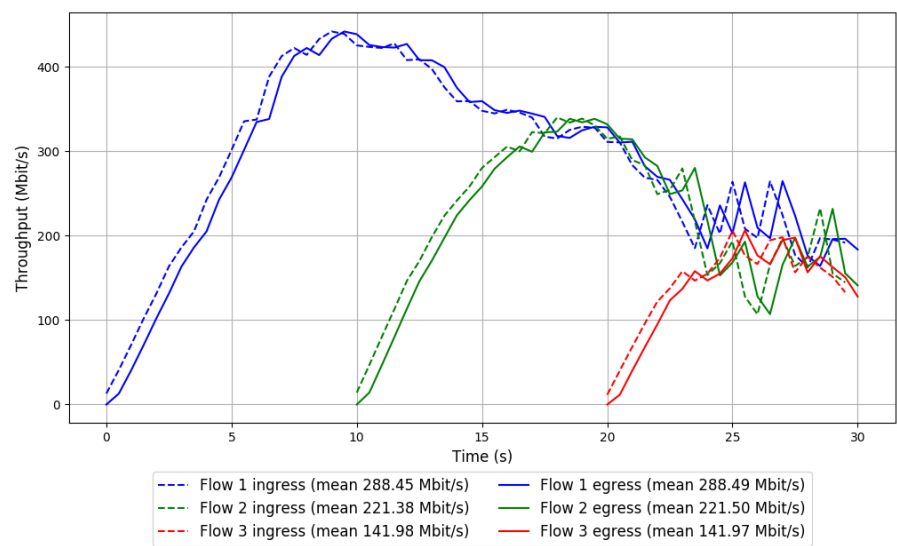
-- Flow 3:

Average throughput: 141.97 Mbit/s

95th percentile per-packet one-way delay: 1.739 ms

Loss rate: 0.20%

Run 10: Report of LEDBAT — Data Link

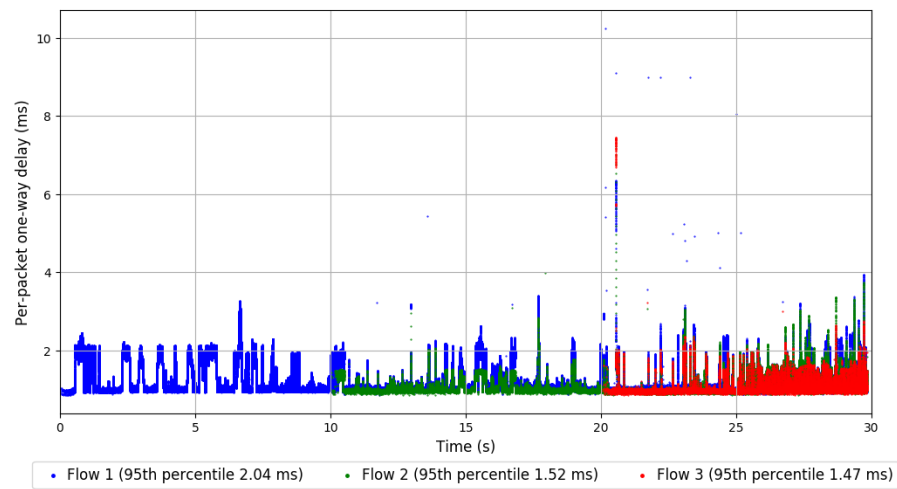
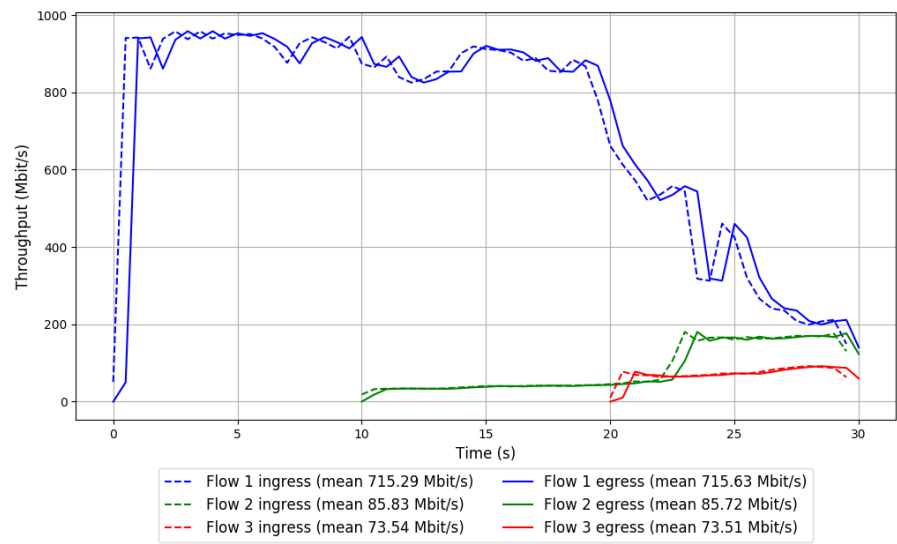


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-07-10 20:35:19
End at: 2018-07-10 20:35:49
Local clock offset: 0.579 ms
Remote clock offset: 0.797 ms

# Below is generated by plot.py at 2018-07-11 02:27:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 796.59 Mbit/s
95th percentile per-packet one-way delay: 2.030 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 715.63 Mbit/s
95th percentile per-packet one-way delay: 2.039 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 85.72 Mbit/s
95th percentile per-packet one-way delay: 1.519 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 73.51 Mbit/s
95th percentile per-packet one-way delay: 1.469 ms
Loss rate: 0.24%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-07-10 21:02:16

End at: 2018-07-10 21:02:46

Local clock offset: 0.634 ms

Remote clock offset: 1.525 ms

Below is generated by plot.py at 2018-07-11 02:27:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 703.69 Mbit/s

95th percentile per-packet one-way delay: 3.033 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 482.76 Mbit/s

95th percentile per-packet one-way delay: 3.012 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 298.12 Mbit/s

95th percentile per-packet one-way delay: 3.061 ms

Loss rate: 0.05%

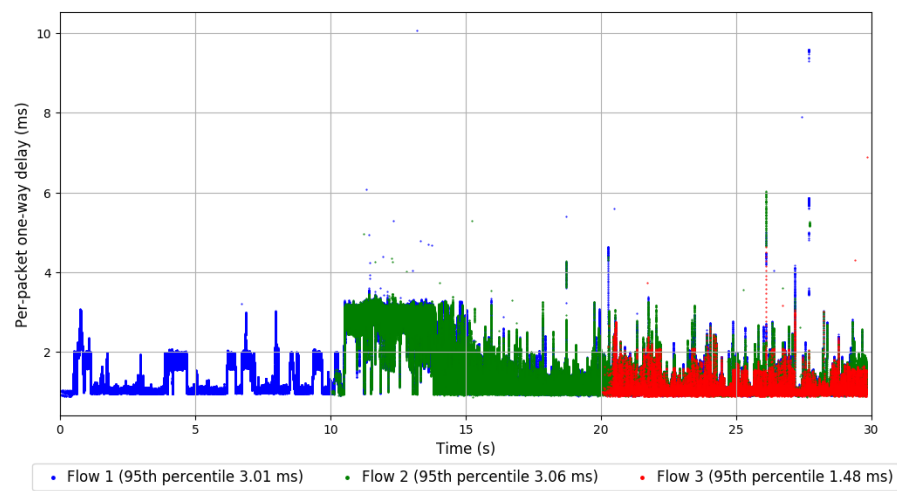
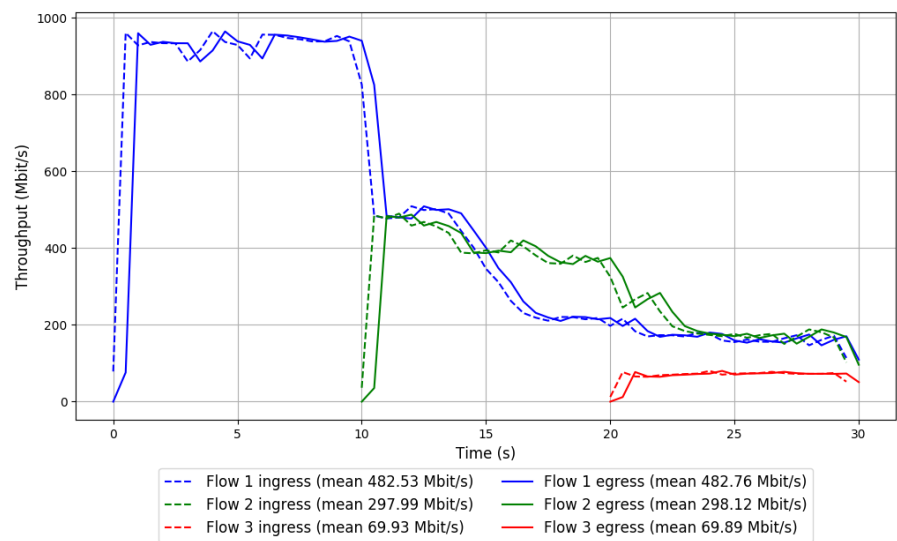
-- Flow 3:

Average throughput: 69.89 Mbit/s

95th percentile per-packet one-way delay: 1.484 ms

Loss rate: 0.19%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-07-10 21:29:04

End at: 2018-07-10 21:29:34

Local clock offset: 0.683 ms

Remote clock offset: 2.069 ms

Below is generated by plot.py at 2018-07-11 02:29:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 742.92 Mbit/s

95th percentile per-packet one-way delay: 2.768 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 507.74 Mbit/s

95th percentile per-packet one-way delay: 2.433 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 292.76 Mbit/s

95th percentile per-packet one-way delay: 2.972 ms

Loss rate: 0.04%

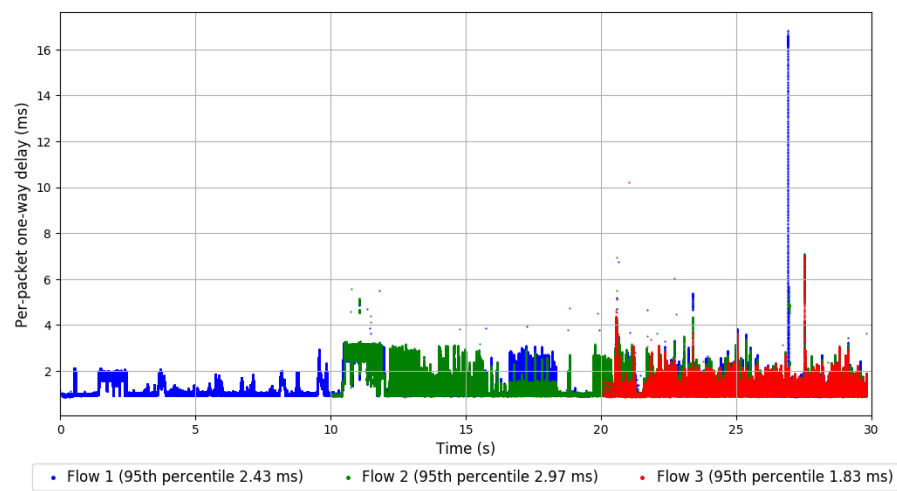
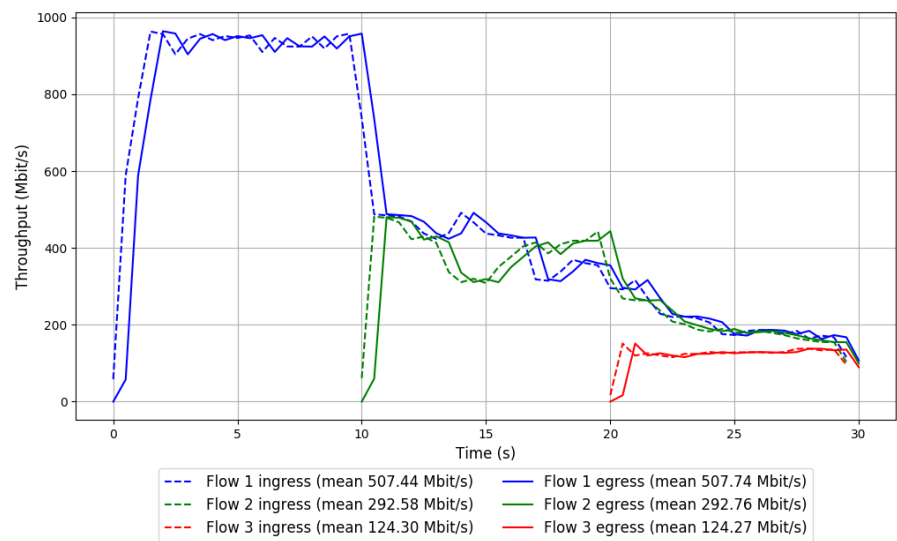
-- Flow 3:

Average throughput: 124.27 Mbit/s

95th percentile per-packet one-way delay: 1.831 ms

Loss rate: 0.29%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-07-10 21:56:09

End at: 2018-07-10 21:56:39

Local clock offset: 0.529 ms

Remote clock offset: 2.453 ms

Below is generated by plot.py at 2018-07-11 02:29:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 690.31 Mbit/s

95th percentile per-packet one-way delay: 1.840 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 608.72 Mbit/s

95th percentile per-packet one-way delay: 1.855 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 46.35 Mbit/s

95th percentile per-packet one-way delay: 1.302 ms

Loss rate: 0.06%

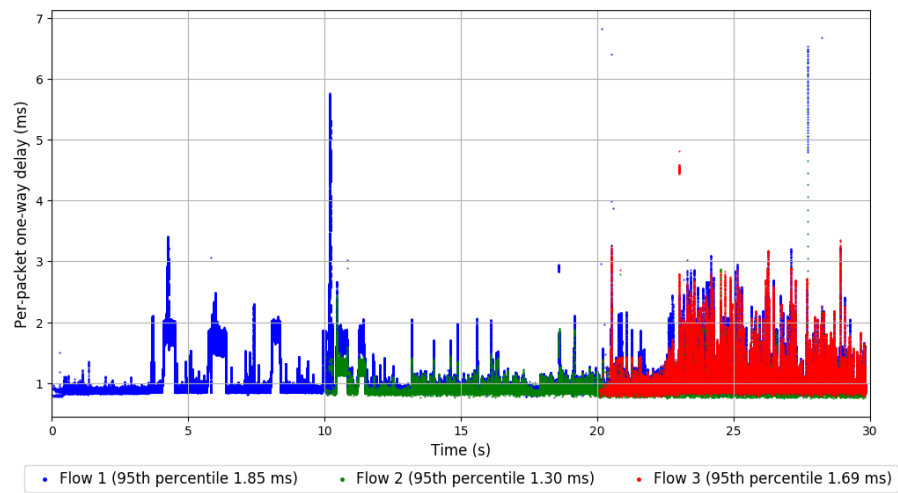
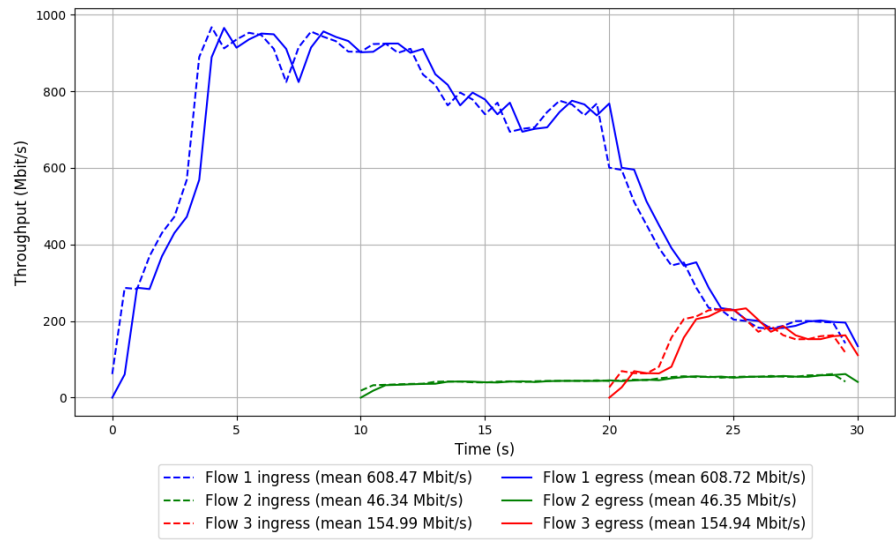
-- Flow 3:

Average throughput: 154.94 Mbit/s

95th percentile per-packet one-way delay: 1.692 ms

Loss rate: 0.22%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-07-10 22:23:05

End at: 2018-07-10 22:23:35

Local clock offset: 0.782 ms

Remote clock offset: 2.339 ms

Below is generated by plot.py at 2018-07-11 02:31:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 780.87 Mbit/s

95th percentile per-packet one-way delay: 2.782 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 544.50 Mbit/s

95th percentile per-packet one-way delay: 2.729 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 324.30 Mbit/s

95th percentile per-packet one-way delay: 2.874 ms

Loss rate: 0.06%

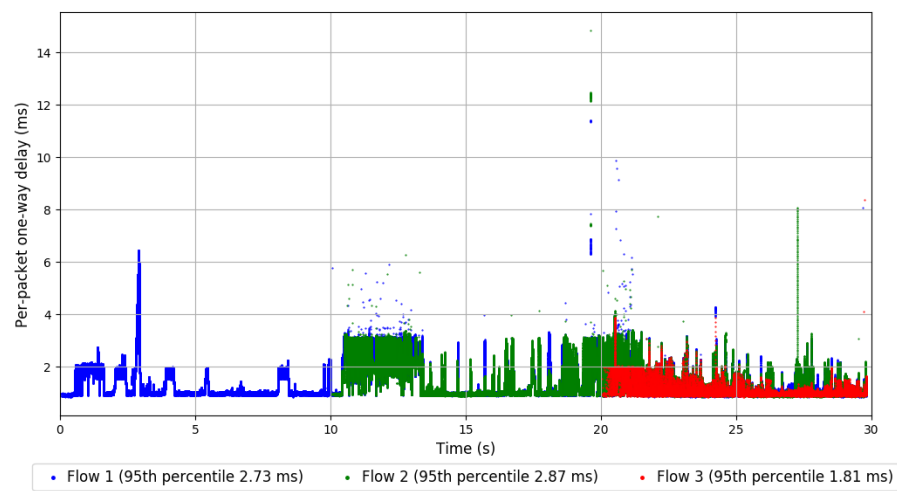
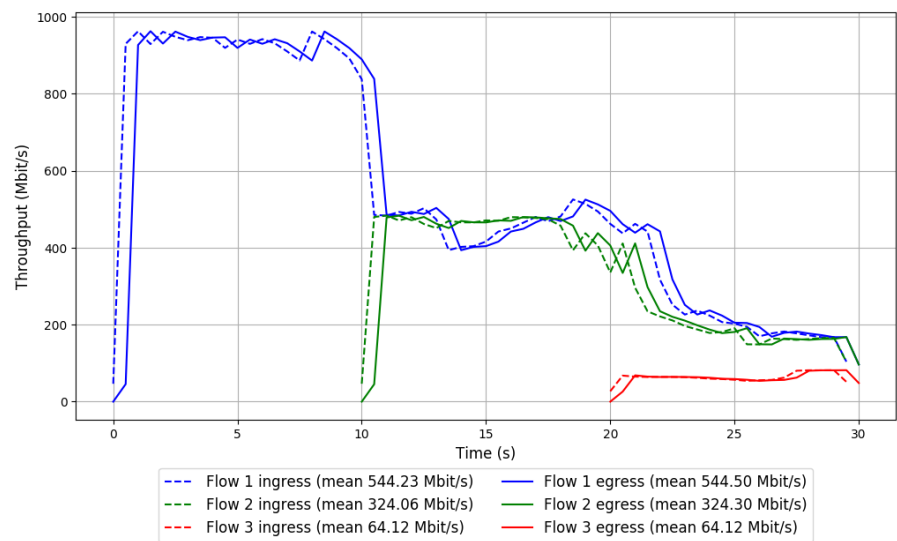
-- Flow 3:

Average throughput: 64.12 Mbit/s

95th percentile per-packet one-way delay: 1.811 ms

Loss rate: 0.27%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-07-10 22:50:06

End at: 2018-07-10 22:50:36

Local clock offset: 0.782 ms

Remote clock offset: 2.15 ms

Below is generated by plot.py at 2018-07-11 02:32:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 808.31 Mbit/s

95th percentile per-packet one-way delay: 2.942 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 608.67 Mbit/s

95th percentile per-packet one-way delay: 2.883 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 272.86 Mbit/s

95th percentile per-packet one-way delay: 3.015 ms

Loss rate: 0.08%

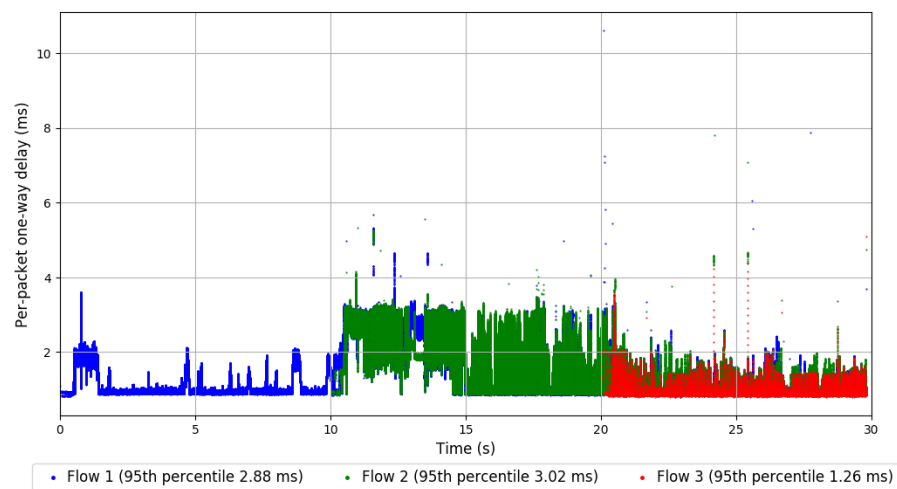
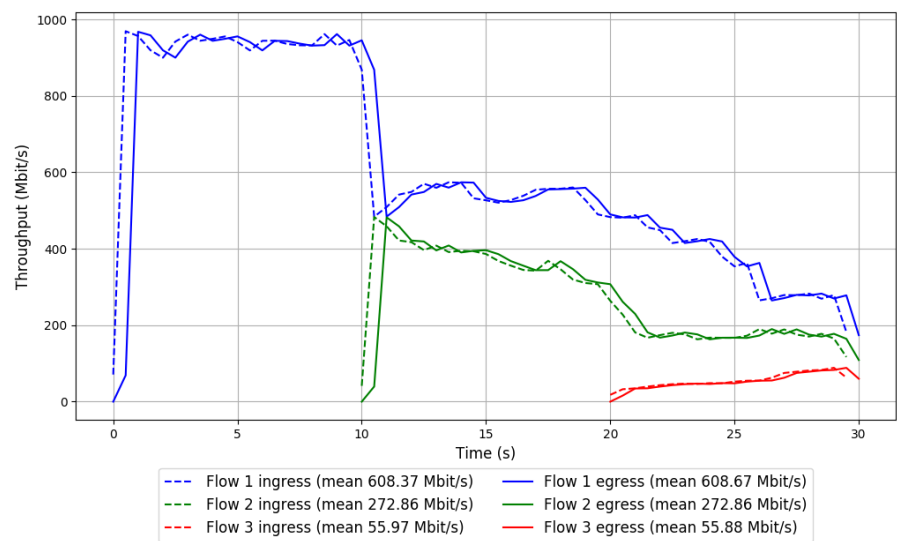
-- Flow 3:

Average throughput: 55.88 Mbit/s

95th percentile per-packet one-way delay: 1.261 ms

Loss rate: 0.31%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-07-10 23:17:03

End at: 2018-07-10 23:17:33

Local clock offset: 0.631 ms

Remote clock offset: 1.892 ms

Below is generated by plot.py at 2018-07-11 02:32:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 708.87 Mbit/s

95th percentile per-packet one-way delay: 1.542 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 595.54 Mbit/s

95th percentile per-packet one-way delay: 1.457 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 87.04 Mbit/s

95th percentile per-packet one-way delay: 1.591 ms

Loss rate: 0.14%

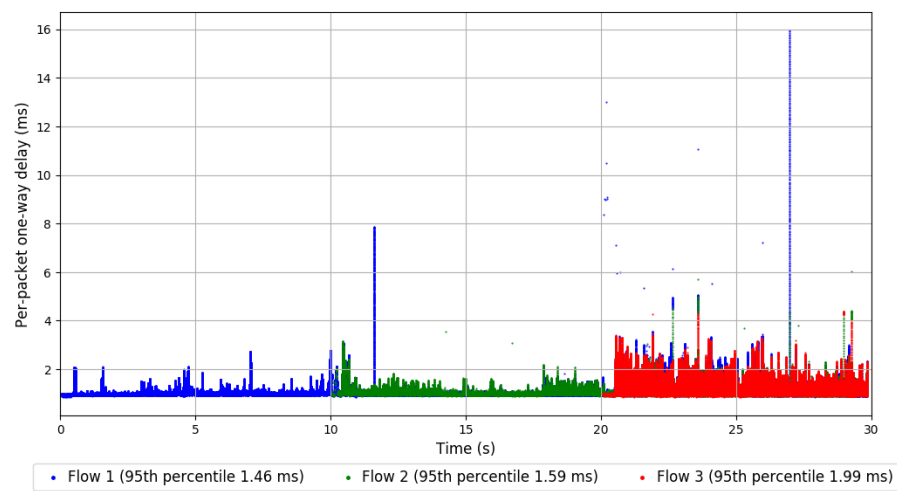
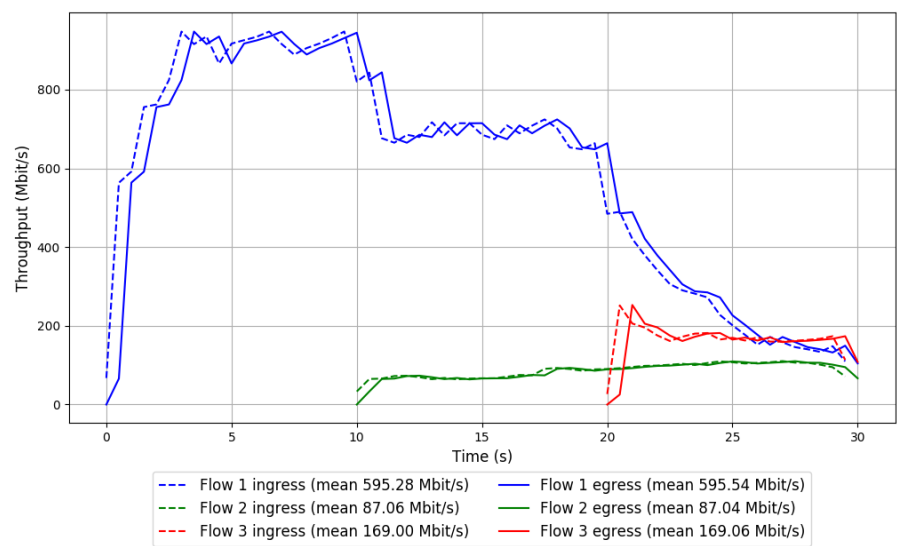
-- Flow 3:

Average throughput: 169.06 Mbit/s

95th percentile per-packet one-way delay: 1.991 ms

Loss rate: 0.16%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-07-10 23:43:45

End at: 2018-07-10 23:44:15

Local clock offset: 0.452 ms

Remote clock offset: 1.795 ms

Below is generated by plot.py at 2018-07-11 02:32:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 740.57 Mbit/s

95th percentile per-packet one-way delay: 1.873 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 640.69 Mbit/s

95th percentile per-packet one-way delay: 1.891 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 114.86 Mbit/s

95th percentile per-packet one-way delay: 1.374 ms

Loss rate: 0.15%

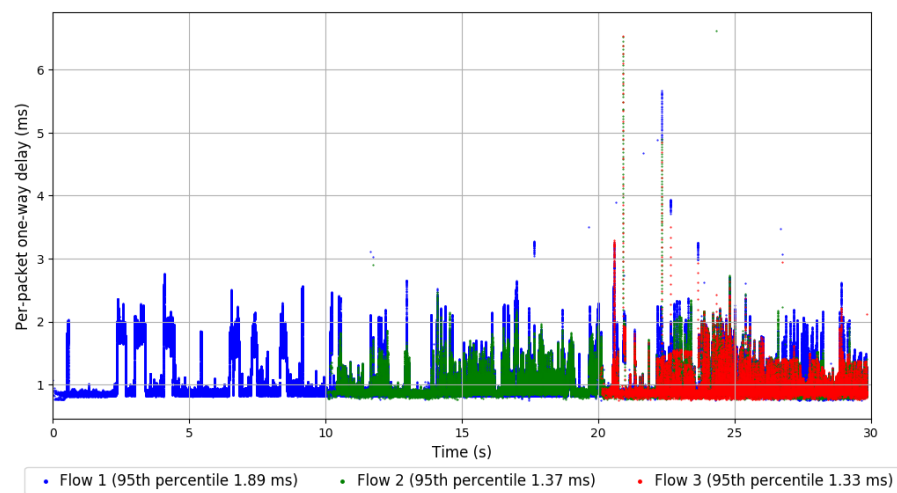
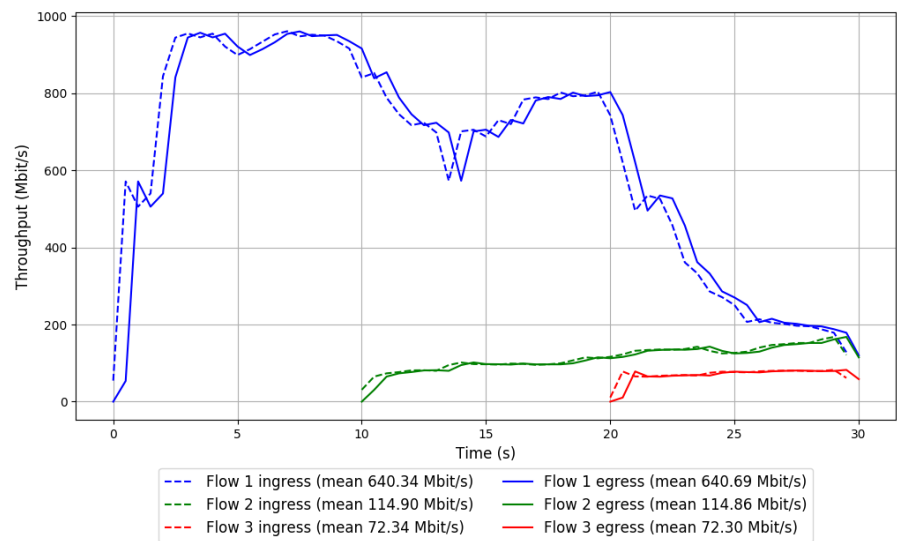
-- Flow 3:

Average throughput: 72.30 Mbit/s

95th percentile per-packet one-way delay: 1.330 ms

Loss rate: 0.23%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-07-11 00:10:40

End at: 2018-07-11 00:11:10

Local clock offset: 0.727 ms

Remote clock offset: 1.719 ms

Below is generated by plot.py at 2018-07-11 02:36:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 798.92 Mbit/s

95th percentile per-packet one-way delay: 2.750 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 586.96 Mbit/s

95th percentile per-packet one-way delay: 2.779 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 247.29 Mbit/s

95th percentile per-packet one-way delay: 2.681 ms

Loss rate: 0.05%

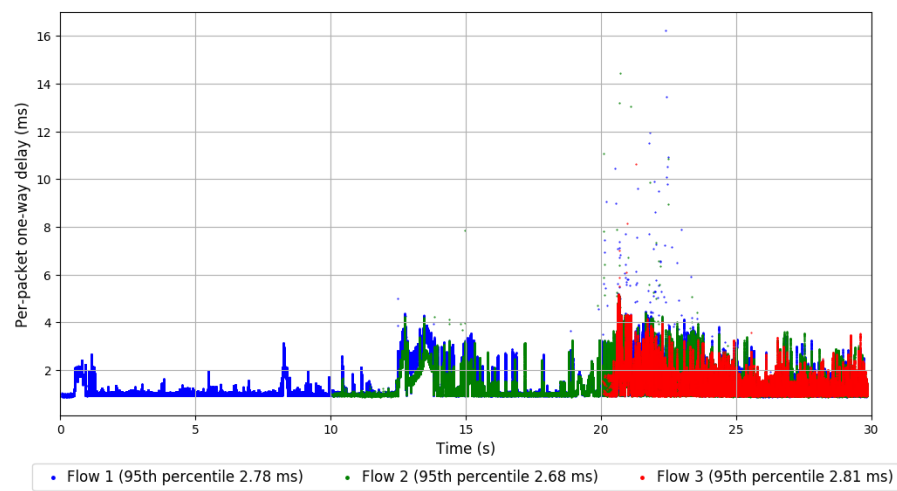
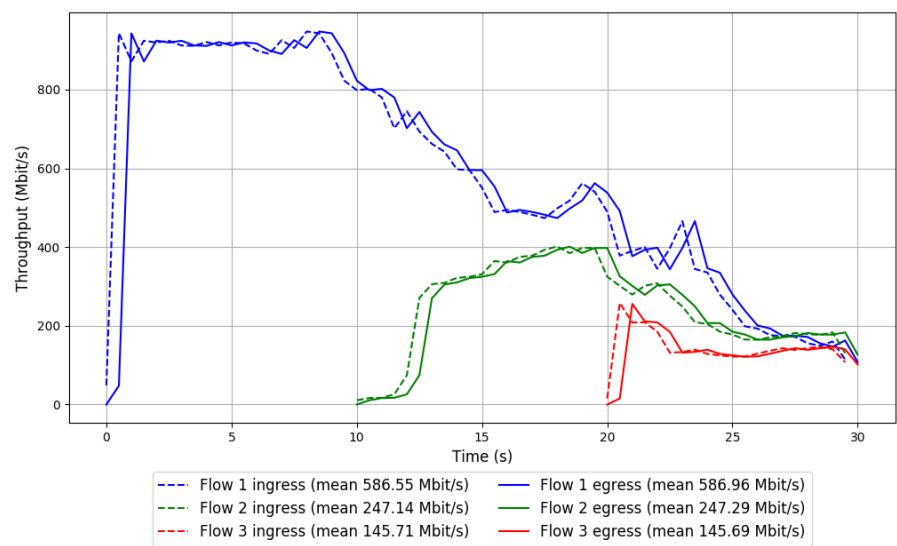
-- Flow 3:

Average throughput: 145.69 Mbit/s

95th percentile per-packet one-way delay: 2.814 ms

Loss rate: 0.21%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-07-11 00:37:37

End at: 2018-07-11 00:38:07

Local clock offset: 0.755 ms

Remote clock offset: 1.47 ms

Below is generated by plot.py at 2018-07-11 02:37:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 755.40 Mbit/s

95th percentile per-packet one-way delay: 1.946 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 670.36 Mbit/s

95th percentile per-packet one-way delay: 1.962 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 46.33 Mbit/s

95th percentile per-packet one-way delay: 1.288 ms

Loss rate: 0.19%

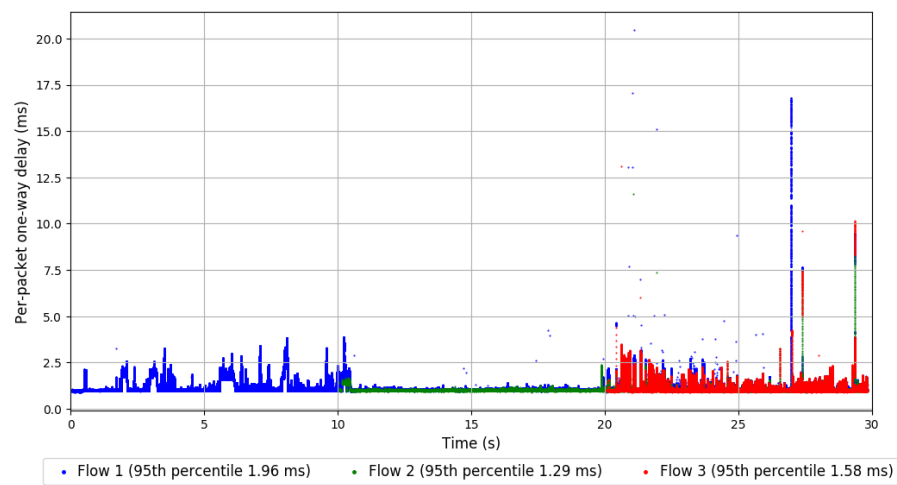
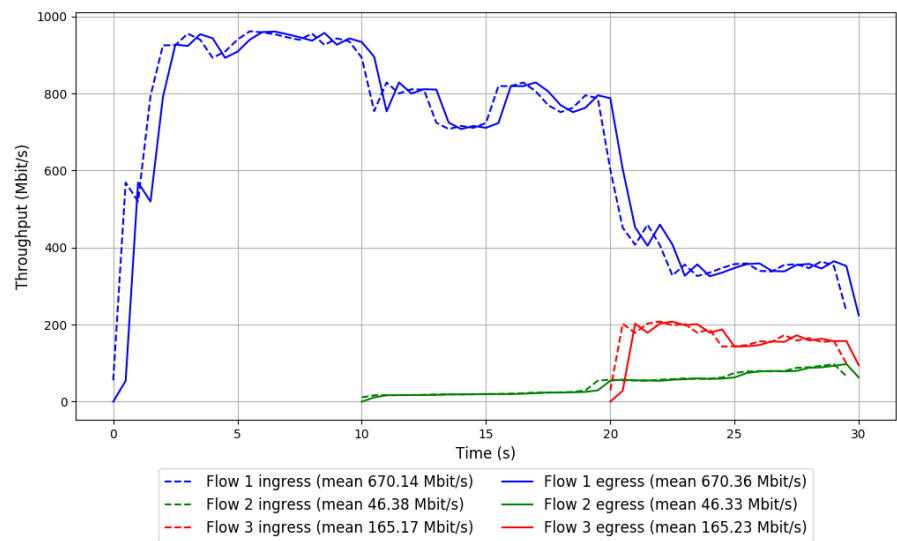
-- Flow 3:

Average throughput: 165.23 Mbit/s

95th percentile per-packet one-way delay: 1.580 ms

Loss rate: 0.14%

Run 10: Report of PCC-Allegro — Data Link

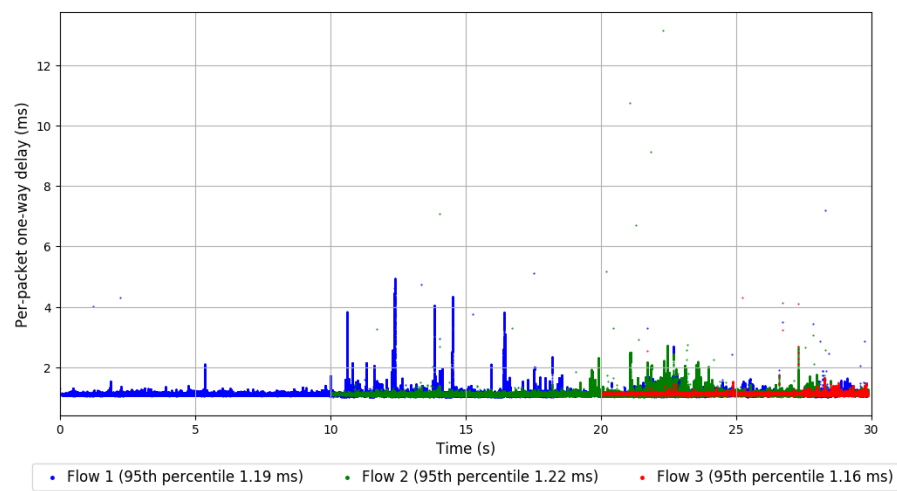
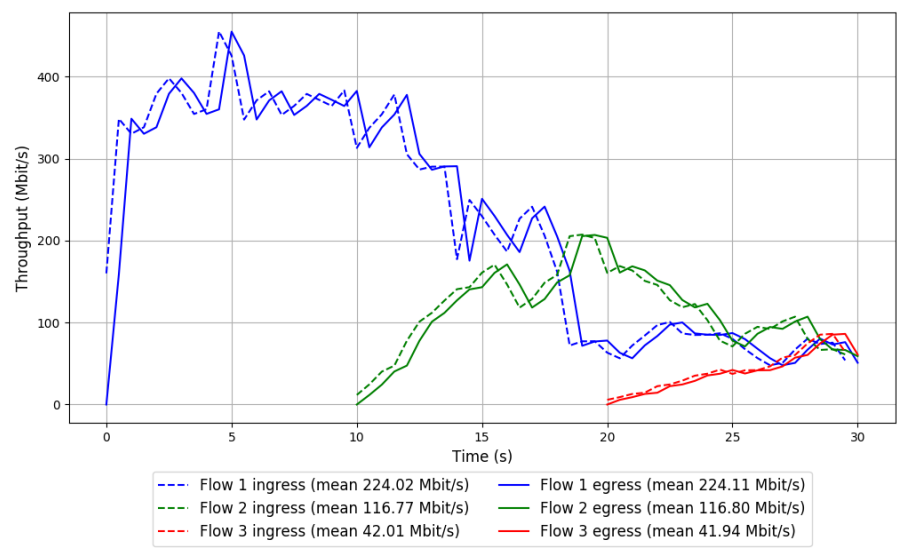


```
Run 1: Statistics of PCC-Expr

Start at: 2018-07-10 20:23:41
End at: 2018-07-10 20:24:11
Local clock offset: 0.778 ms
Remote clock offset: 0.291 ms

# Below is generated by plot.py at 2018-07-11 02:37:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 315.60 Mbit/s
95th percentile per-packet one-way delay: 1.198 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 224.11 Mbit/s
95th percentile per-packet one-way delay: 1.194 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 116.80 Mbit/s
95th percentile per-packet one-way delay: 1.218 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 41.94 Mbit/s
95th percentile per-packet one-way delay: 1.162 ms
Loss rate: 0.38%
```


Run 1: Report of PCC-Expr — Data Link

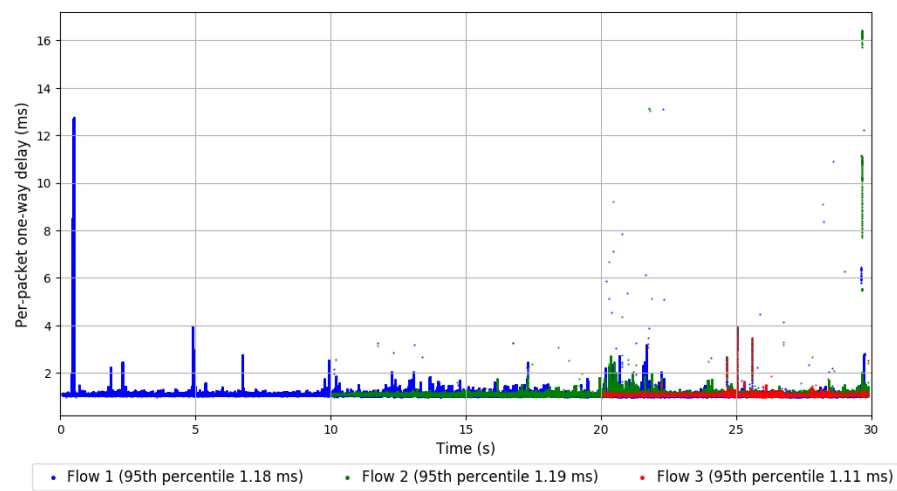
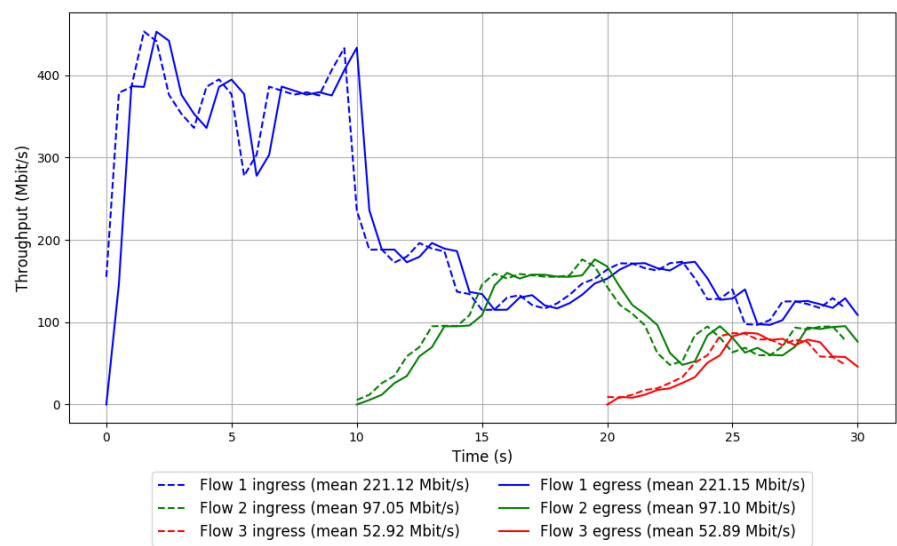


```
Run 2: Statistics of PCC-Expr

Start at: 2018-07-10 20:50:41
End at: 2018-07-10 20:51:11
Local clock offset: 0.584 ms
Remote clock offset: 1.136 ms

# Below is generated by plot.py at 2018-07-11 02:37:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 303.06 Mbit/s
95th percentile per-packet one-way delay: 1.175 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 221.15 Mbit/s
95th percentile per-packet one-way delay: 1.177 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 97.10 Mbit/s
95th percentile per-packet one-way delay: 1.192 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 52.89 Mbit/s
95th percentile per-packet one-way delay: 1.112 ms
Loss rate: 0.25%
```

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-07-10 21:17:30

End at: 2018-07-10 21:18:00

Local clock offset: 0.662 ms

Remote clock offset: 1.818 ms

Below is generated by plot.py at 2018-07-11 02:37:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 267.14 Mbit/s

95th percentile per-packet one-way delay: 1.026 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 181.43 Mbit/s

95th percentile per-packet one-way delay: 1.021 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 99.69 Mbit/s

95th percentile per-packet one-way delay: 1.051 ms

Loss rate: 0.07%

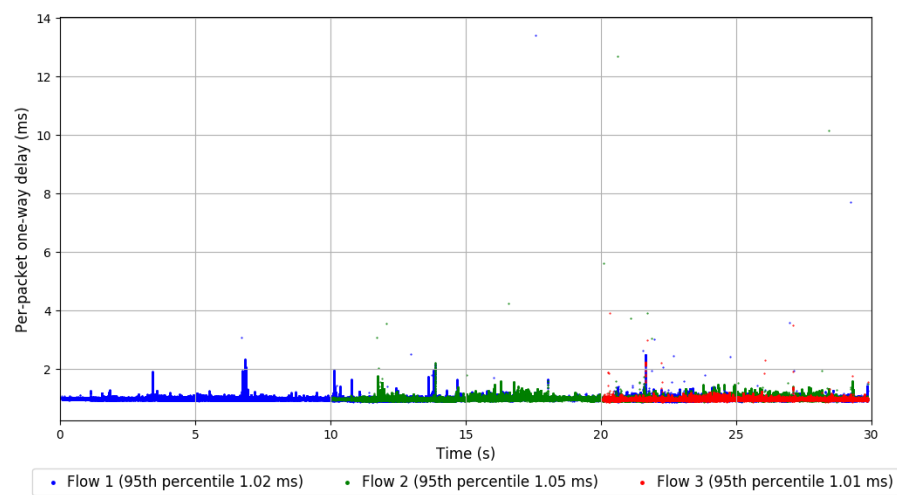
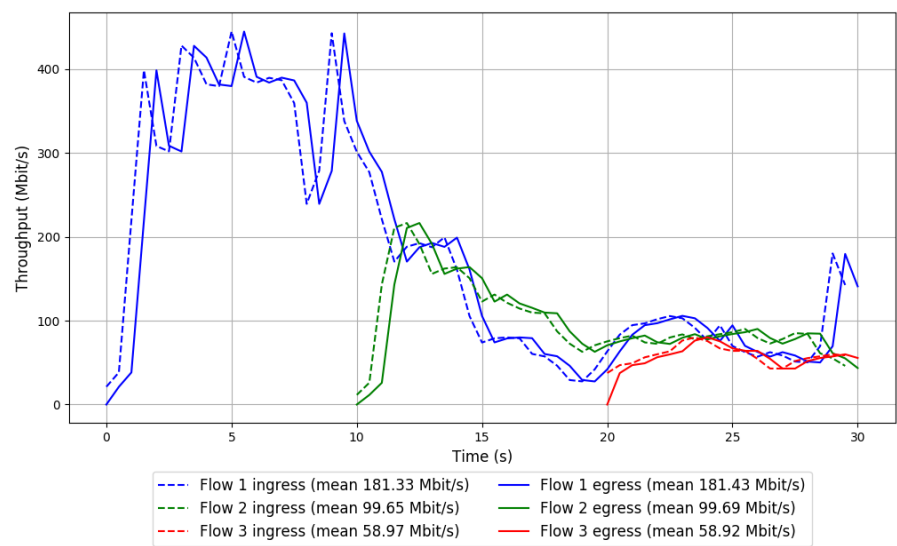
-- Flow 3:

Average throughput: 58.92 Mbit/s

95th percentile per-packet one-way delay: 1.006 ms

Loss rate: 0.28%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-07-10 21:44:32

End at: 2018-07-10 21:45:02

Local clock offset: 0.535 ms

Remote clock offset: 2.238 ms

Below is generated by plot.py at 2018-07-11 02:38:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 292.84 Mbit/s

95th percentile per-packet one-way delay: 1.045 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 188.68 Mbit/s

95th percentile per-packet one-way delay: 1.018 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 128.31 Mbit/s

95th percentile per-packet one-way delay: 1.139 ms

Loss rate: 0.11%

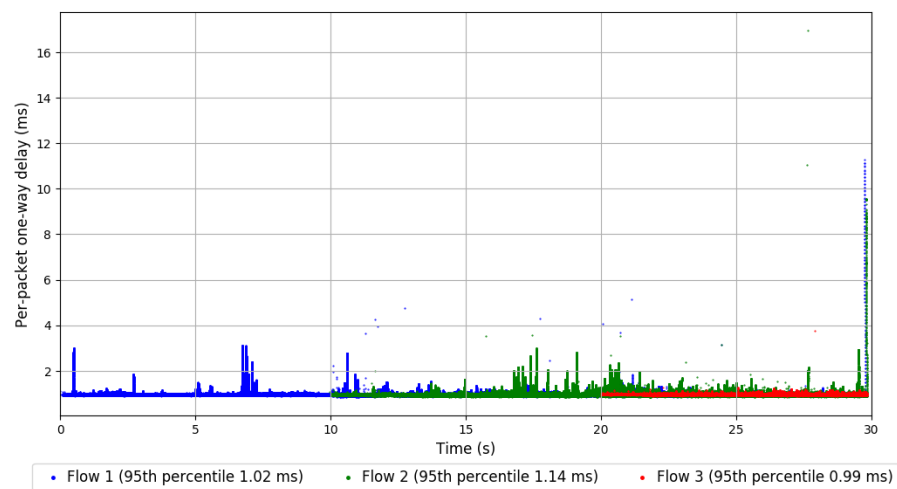
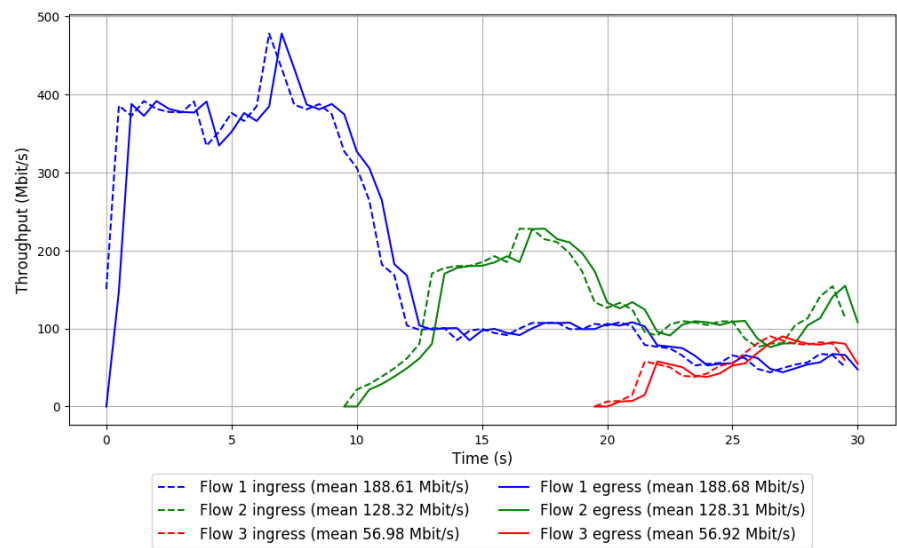
-- Flow 3:

Average throughput: 56.92 Mbit/s

95th percentile per-packet one-way delay: 0.994 ms

Loss rate: 0.37%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-07-10 22:11:26

End at: 2018-07-10 22:11:56

Local clock offset: 0.625 ms

Remote clock offset: 2.258 ms

Below is generated by plot.py at 2018-07-11 02:38:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 283.50 Mbit/s

95th percentile per-packet one-way delay: 1.064 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 207.84 Mbit/s

95th percentile per-packet one-way delay: 1.089 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 88.91 Mbit/s

95th percentile per-packet one-way delay: 1.019 ms

Loss rate: 0.09%

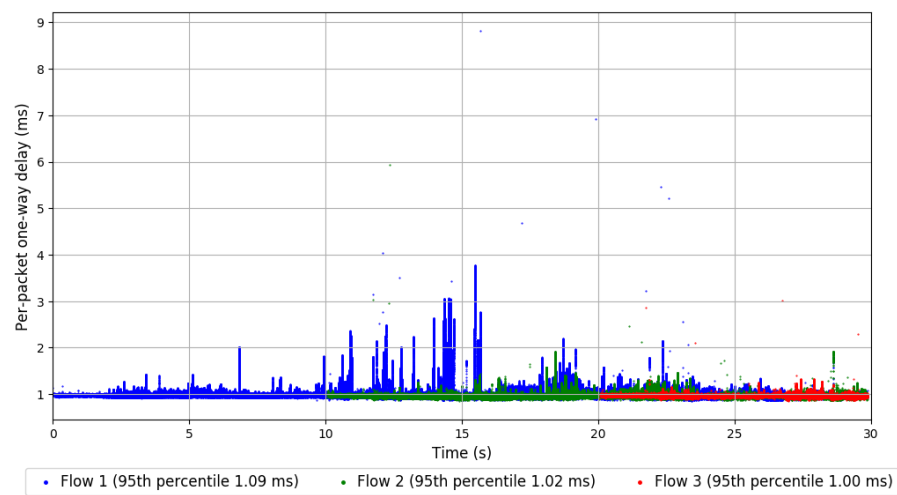
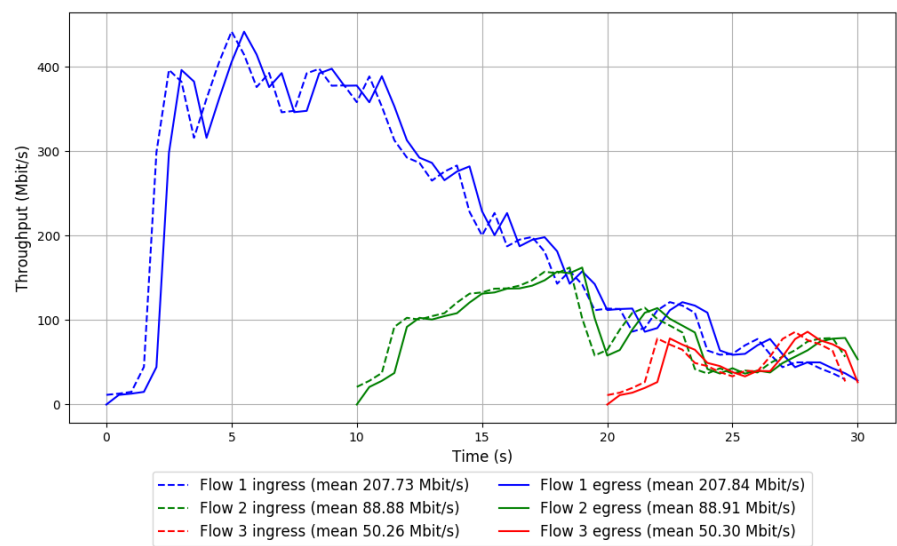
-- Flow 3:

Average throughput: 50.30 Mbit/s

95th percentile per-packet one-way delay: 1.002 ms

Loss rate: 0.11%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-07-10 22:38:28

End at: 2018-07-10 22:38:58

Local clock offset: 0.926 ms

Remote clock offset: 2.145 ms

Below is generated by plot.py at 2018-07-11 02:38:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 282.85 Mbit/s

95th percentile per-packet one-way delay: 1.192 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 214.79 Mbit/s

95th percentile per-packet one-way delay: 1.207 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 68.17 Mbit/s

95th percentile per-packet one-way delay: 1.175 ms

Loss rate: 0.13%

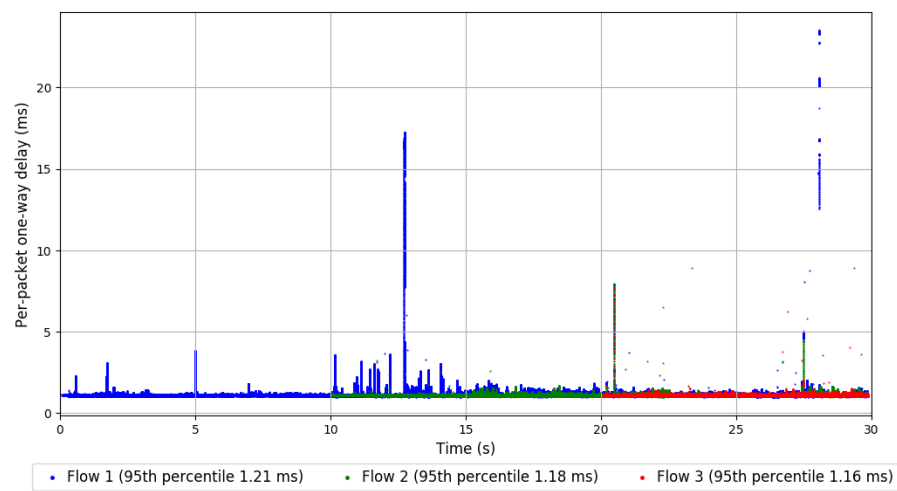
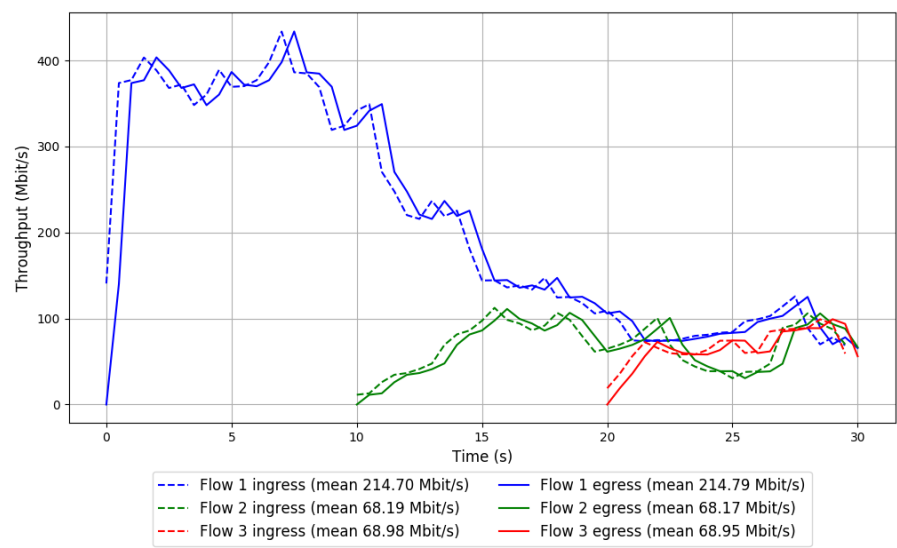
-- Flow 3:

Average throughput: 68.95 Mbit/s

95th percentile per-packet one-way delay: 1.156 ms

Loss rate: 0.24%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-07-10 23:05:24

End at: 2018-07-10 23:05:54

Local clock offset: 0.73 ms

Remote clock offset: 1.934 ms

Below is generated by plot.py at 2018-07-11 02:42:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 317.23 Mbit/s

95th percentile per-packet one-way delay: 1.104 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 220.94 Mbit/s

95th percentile per-packet one-way delay: 1.094 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 120.79 Mbit/s

95th percentile per-packet one-way delay: 1.174 ms

Loss rate: 0.09%

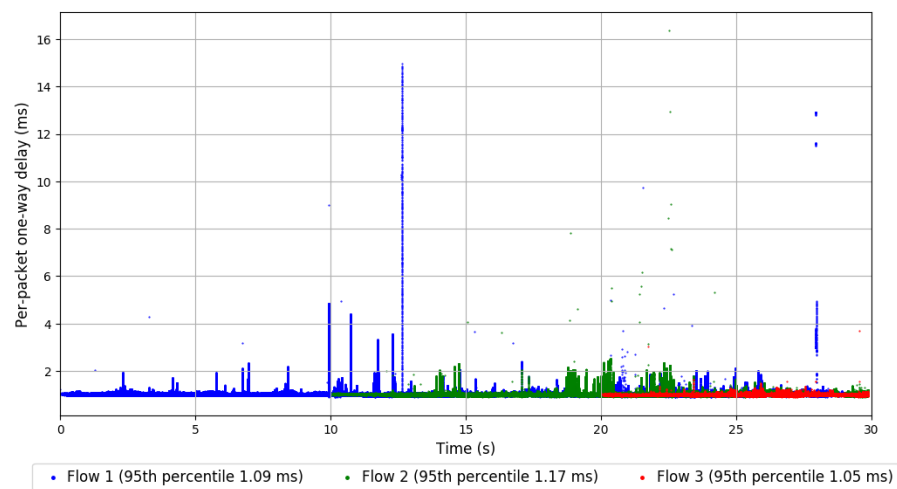
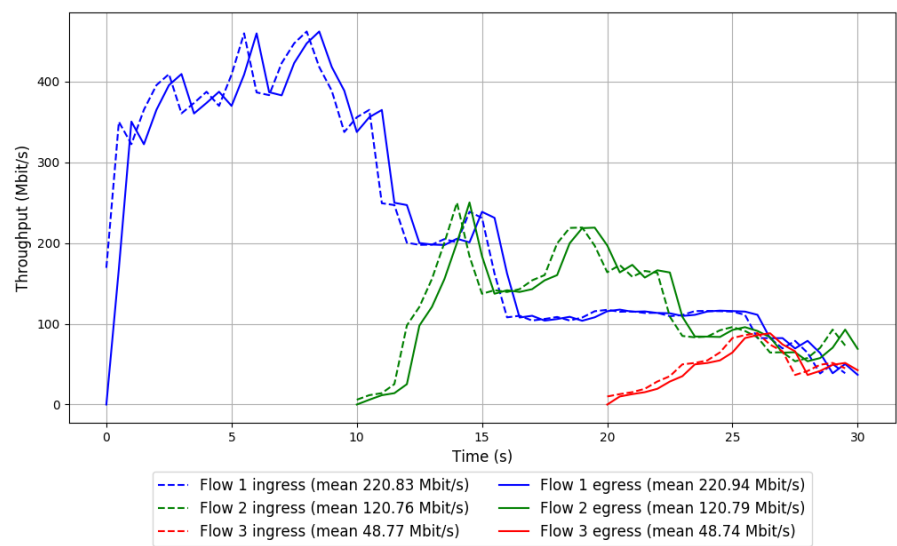
-- Flow 3:

Average throughput: 48.74 Mbit/s

95th percentile per-packet one-way delay: 1.047 ms

Loss rate: 0.27%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-07-10 23:32:13

End at: 2018-07-10 23:32:43

Local clock offset: 0.505 ms

Remote clock offset: 1.701 ms

Below is generated by plot.py at 2018-07-11 02:43:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 317.73 Mbit/s

95th percentile per-packet one-way delay: 1.123 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 214.74 Mbit/s

95th percentile per-packet one-way delay: 1.118 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 125.05 Mbit/s

95th percentile per-packet one-way delay: 1.153 ms

Loss rate: 0.07%

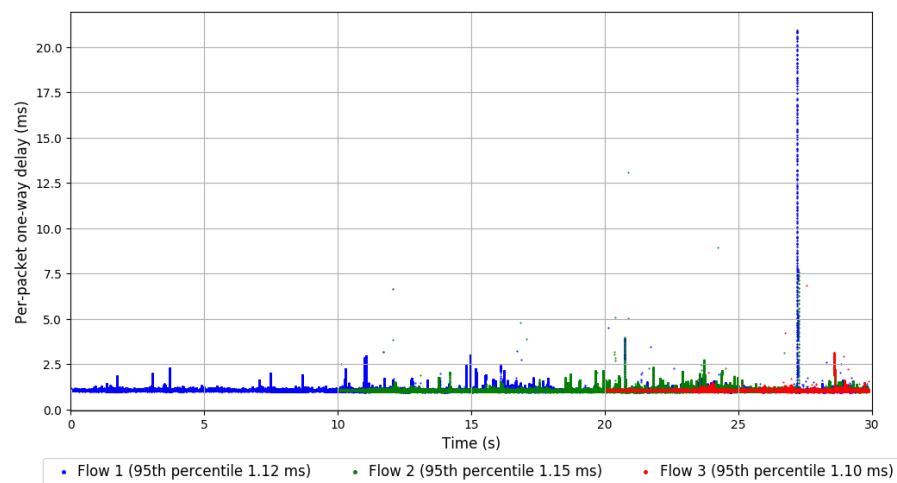
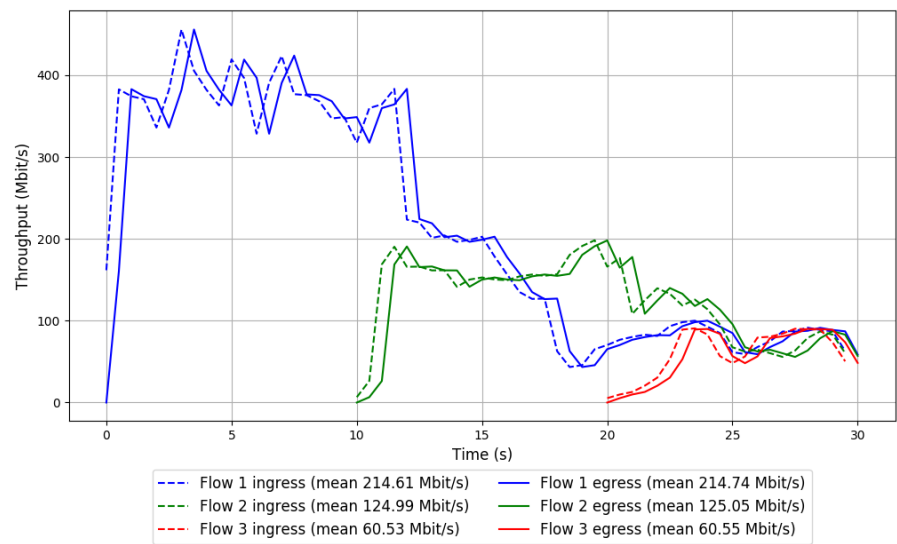
-- Flow 3:

Average throughput: 60.55 Mbit/s

95th percentile per-packet one-way delay: 1.097 ms

Loss rate: 0.17%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-07-10 23:59:05

End at: 2018-07-10 23:59:35

Local clock offset: 0.588 ms

Remote clock offset: 1.75 ms

Below is generated by plot.py at 2018-07-11 02:43:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 271.12 Mbit/s

95th percentile per-packet one-way delay: 1.047 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 175.10 Mbit/s

95th percentile per-packet one-way delay: 1.043 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 112.68 Mbit/s

95th percentile per-packet one-way delay: 1.077 ms

Loss rate: 0.06%

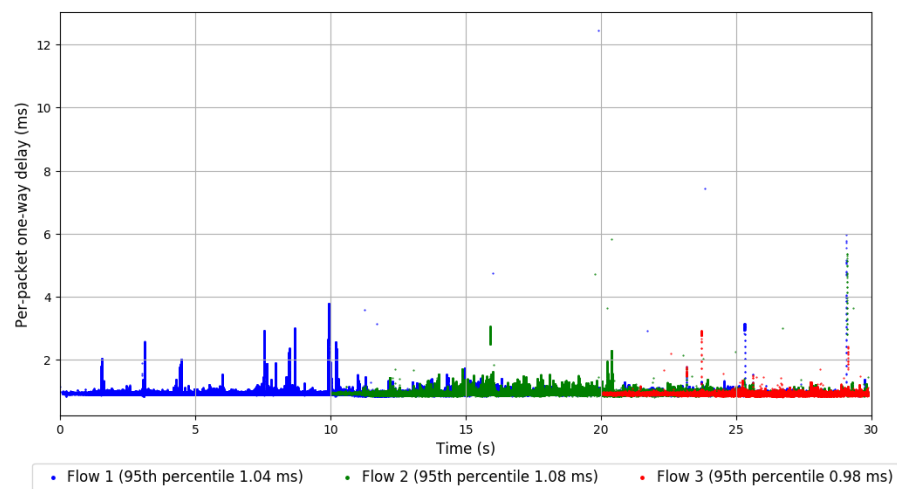
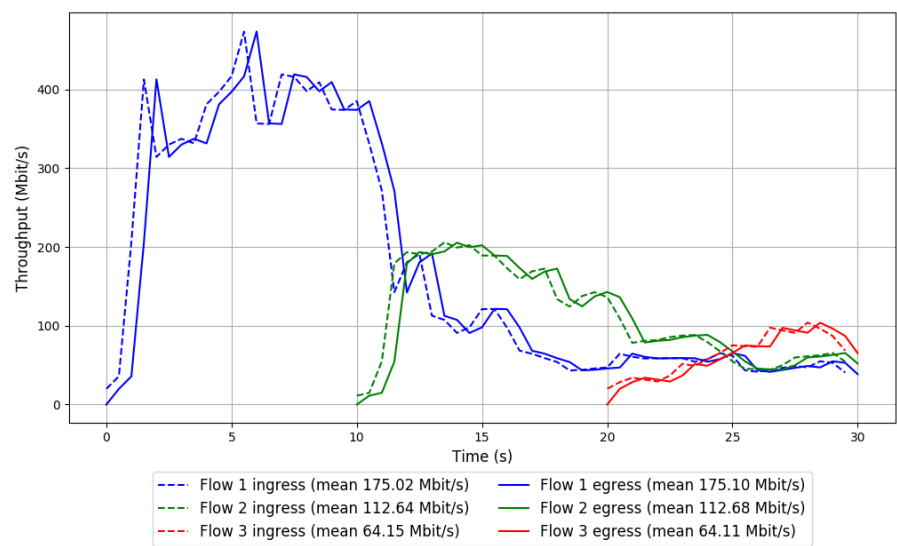
-- Flow 3:

Average throughput: 64.11 Mbit/s

95th percentile per-packet one-way delay: 0.976 ms

Loss rate: 0.27%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-07-11 00:25:58

End at: 2018-07-11 00:26:28

Local clock offset: 0.737 ms

Remote clock offset: 1.531 ms

Below is generated by plot.py at 2018-07-11 02:45:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 362.84 Mbit/s

95th percentile per-packet one-way delay: 1.180 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 232.39 Mbit/s

95th percentile per-packet one-way delay: 1.148 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 164.87 Mbit/s

95th percentile per-packet one-way delay: 1.295 ms

Loss rate: 0.06%

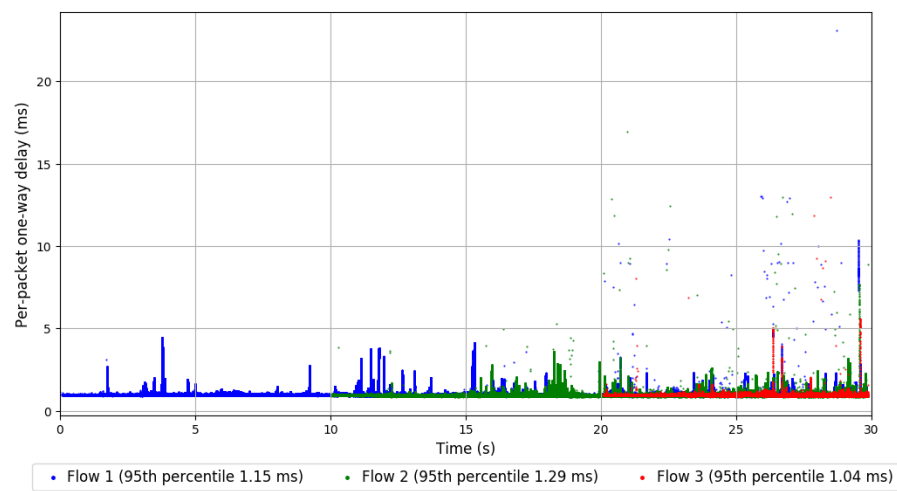
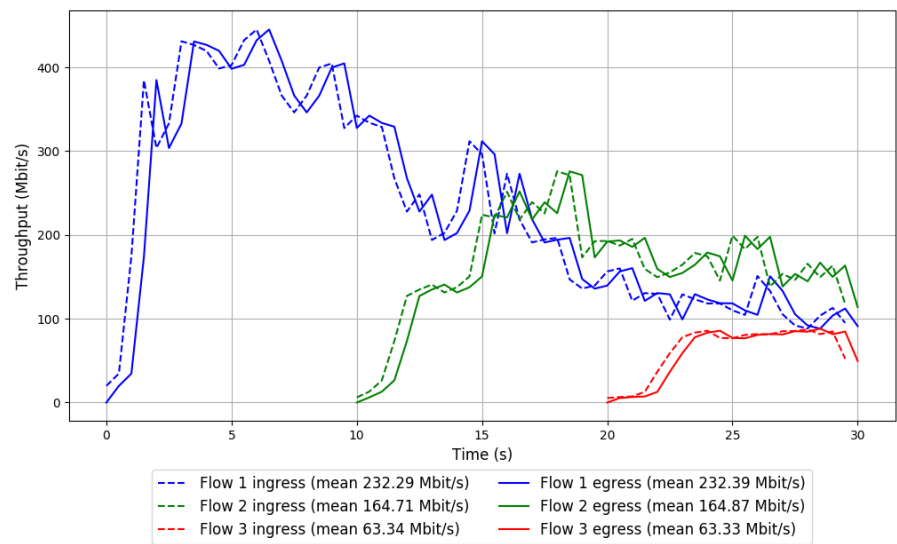
-- Flow 3:

Average throughput: 63.33 Mbit/s

95th percentile per-packet one-way delay: 1.042 ms

Loss rate: 0.22%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-07-10 20:38:46

End at: 2018-07-10 20:39:16

Local clock offset: 0.479 ms

Remote clock offset: 0.81 ms

Below is generated by plot.py at 2018-07-11 02:45:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 137.33 Mbit/s

95th percentile per-packet one-way delay: 1.042 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 77.21 Mbit/s

95th percentile per-packet one-way delay: 1.034 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 63.58 Mbit/s

95th percentile per-packet one-way delay: 1.041 ms

Loss rate: 0.10%

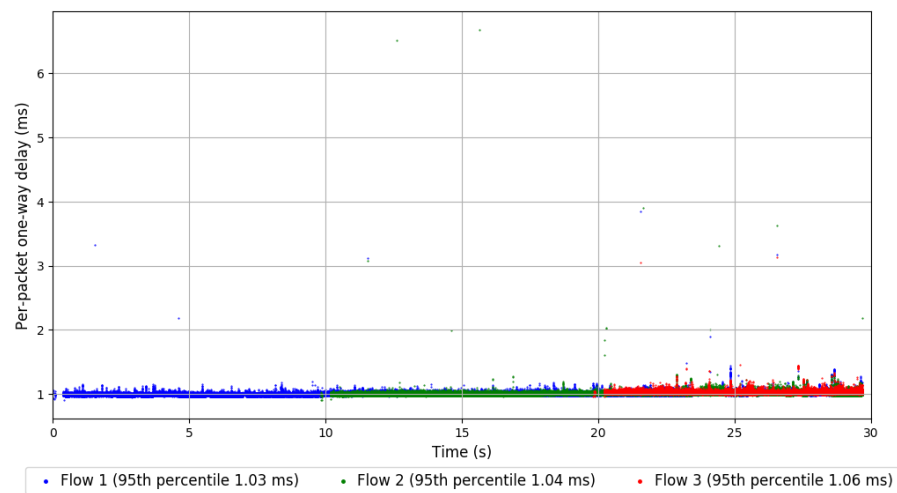
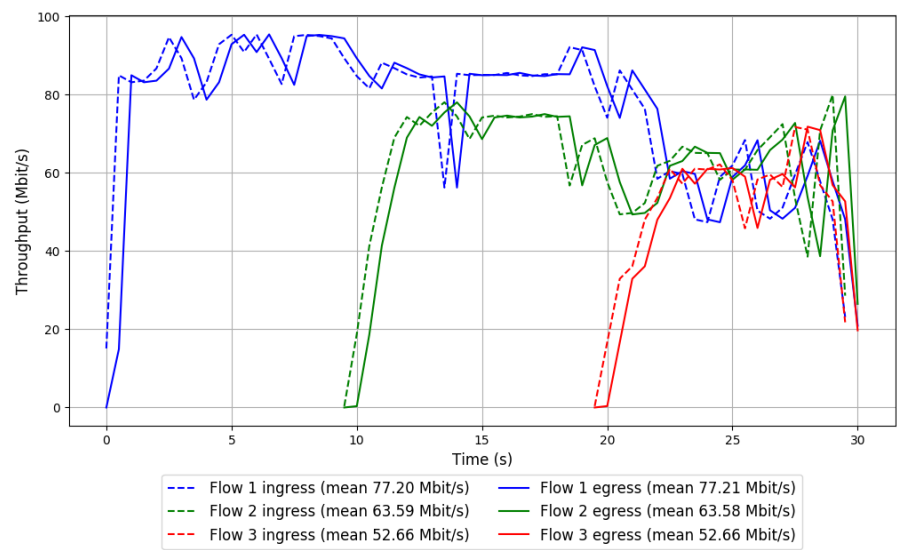
-- Flow 3:

Average throughput: 52.66 Mbit/s

95th percentile per-packet one-way delay: 1.059 ms

Loss rate: 0.21%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-07-10 21:05:38

End at: 2018-07-10 21:06:08

Local clock offset: 0.631 ms

Remote clock offset: 1.587 ms

Below is generated by plot.py at 2018-07-11 02:45:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 133.09 Mbit/s

95th percentile per-packet one-way delay: 1.008 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 71.38 Mbit/s

95th percentile per-packet one-way delay: 1.004 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 65.11 Mbit/s

95th percentile per-packet one-way delay: 1.012 ms

Loss rate: 0.09%

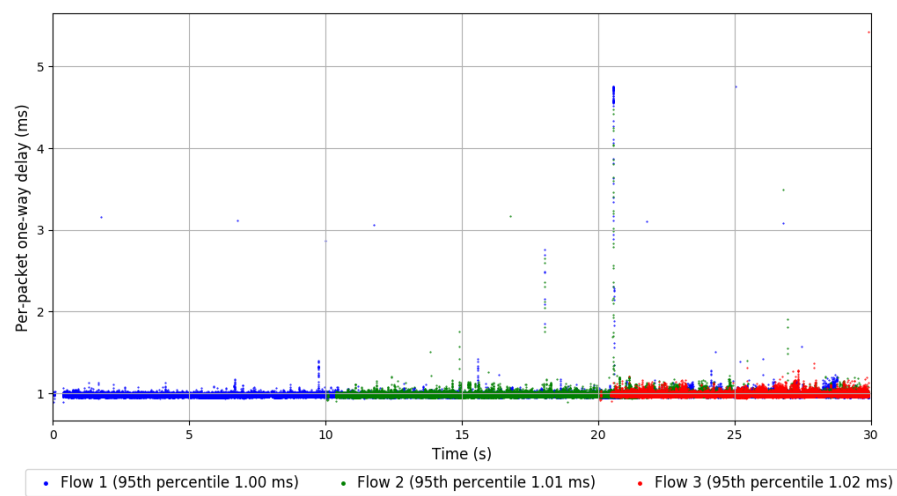
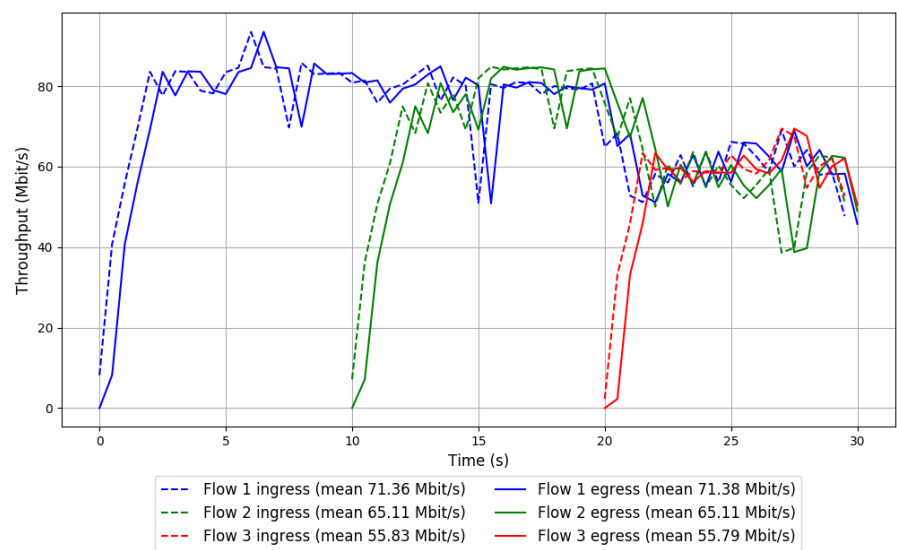
-- Flow 3:

Average throughput: 55.79 Mbit/s

95th percentile per-packet one-way delay: 1.017 ms

Loss rate: 0.21%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-07-10 21:32:30

End at: 2018-07-10 21:33:00

Local clock offset: 0.683 ms

Remote clock offset: 2.05 ms

Below is generated by plot.py at 2018-07-11 02:45:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 135.83 Mbit/s

95th percentile per-packet one-way delay: 1.127 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 73.39 Mbit/s

95th percentile per-packet one-way delay: 1.126 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 67.10 Mbit/s

95th percentile per-packet one-way delay: 1.117 ms

Loss rate: 0.09%

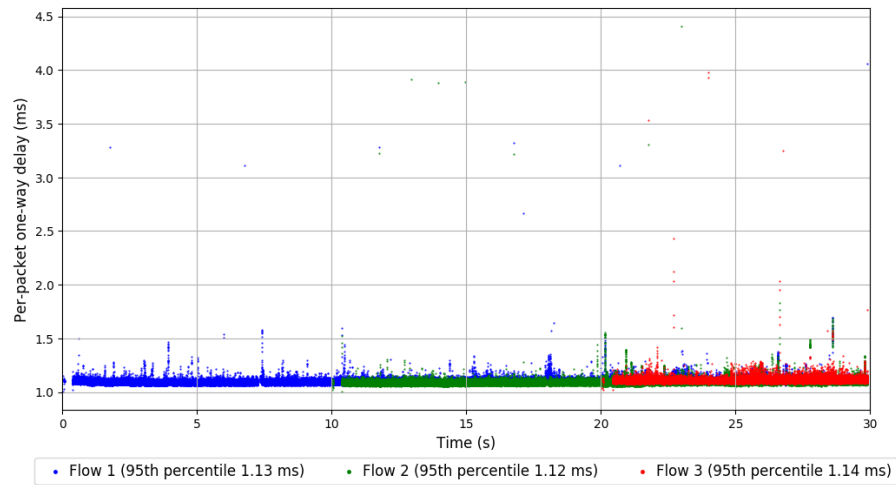
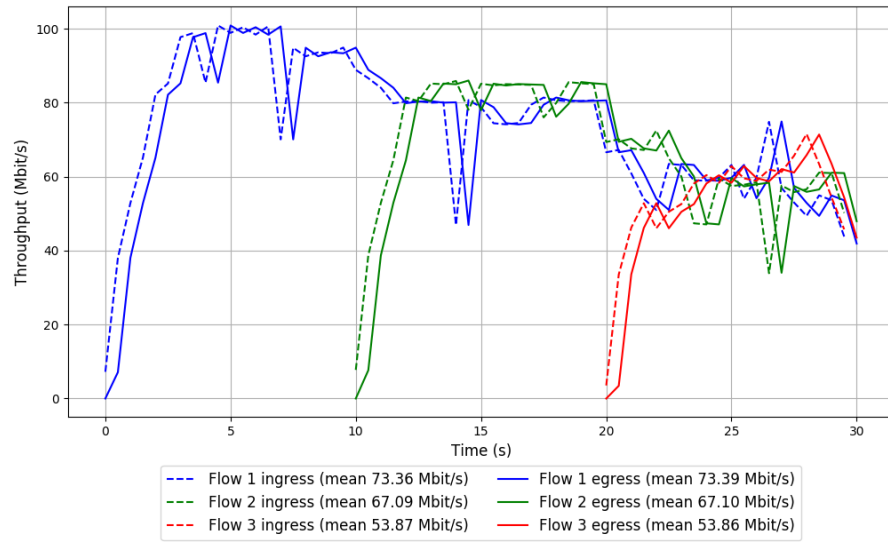
-- Flow 3:

Average throughput: 53.86 Mbit/s

95th percentile per-packet one-way delay: 1.140 ms

Loss rate: 0.22%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-07-10 21:59:32

End at: 2018-07-10 22:00:02

Local clock offset: 0.542 ms

Remote clock offset: 2.396 ms

Below is generated by plot.py at 2018-07-11 02:45:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 135.54 Mbit/s

95th percentile per-packet one-way delay: 0.946 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 74.83 Mbit/s

95th percentile per-packet one-way delay: 0.946 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 65.95 Mbit/s

95th percentile per-packet one-way delay: 0.947 ms

Loss rate: 0.08%

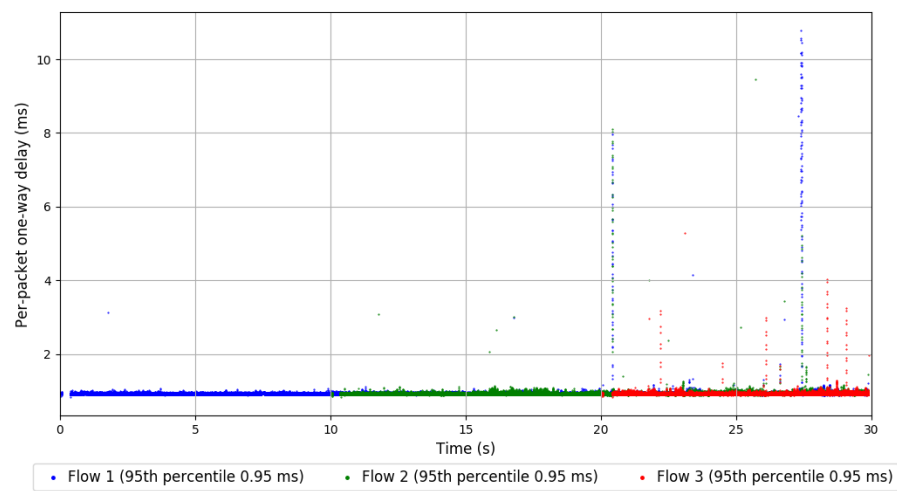
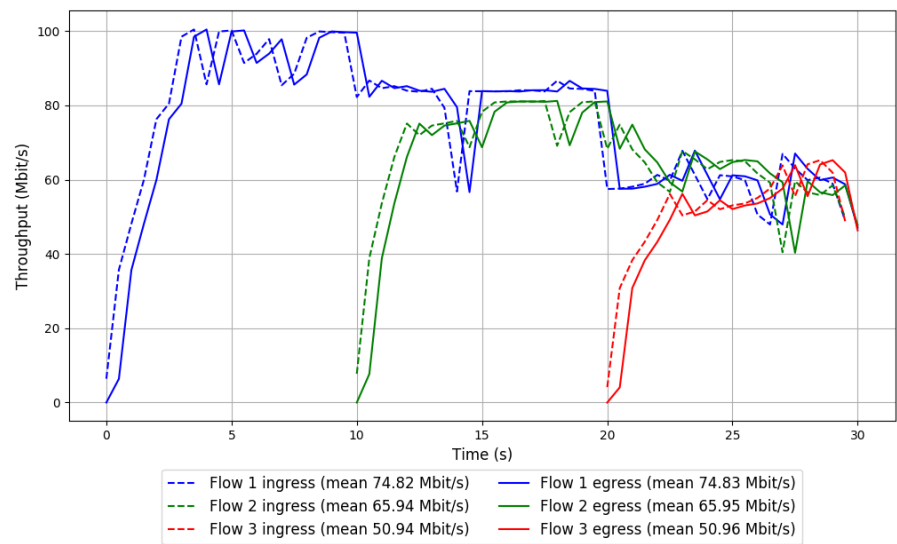
-- Flow 3:

Average throughput: 50.96 Mbit/s

95th percentile per-packet one-way delay: 0.948 ms

Loss rate: 0.26%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-07-10 22:26:31

End at: 2018-07-10 22:27:01

Local clock offset: 0.822 ms

Remote clock offset: 2.301 ms

Below is generated by plot.py at 2018-07-11 02:45:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 137.79 Mbit/s

95th percentile per-packet one-way delay: 1.044 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 76.05 Mbit/s

95th percentile per-packet one-way delay: 1.038 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 65.05 Mbit/s

95th percentile per-packet one-way delay: 1.042 ms

Loss rate: 0.10%

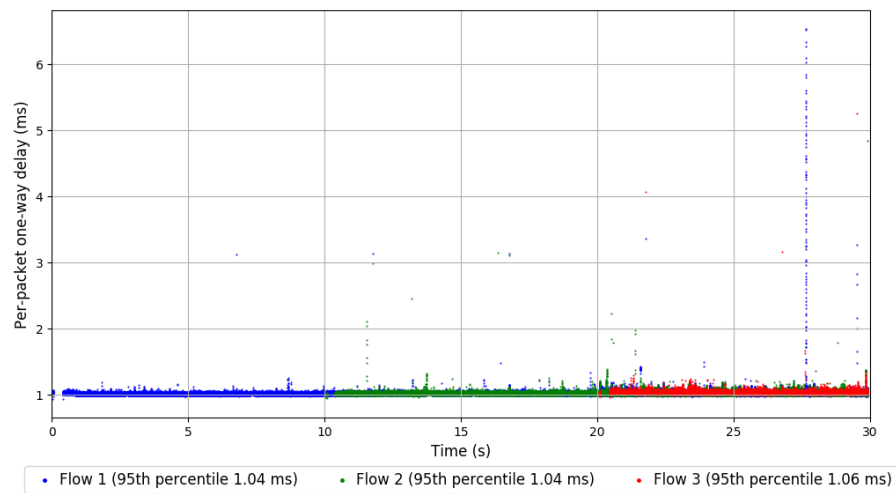
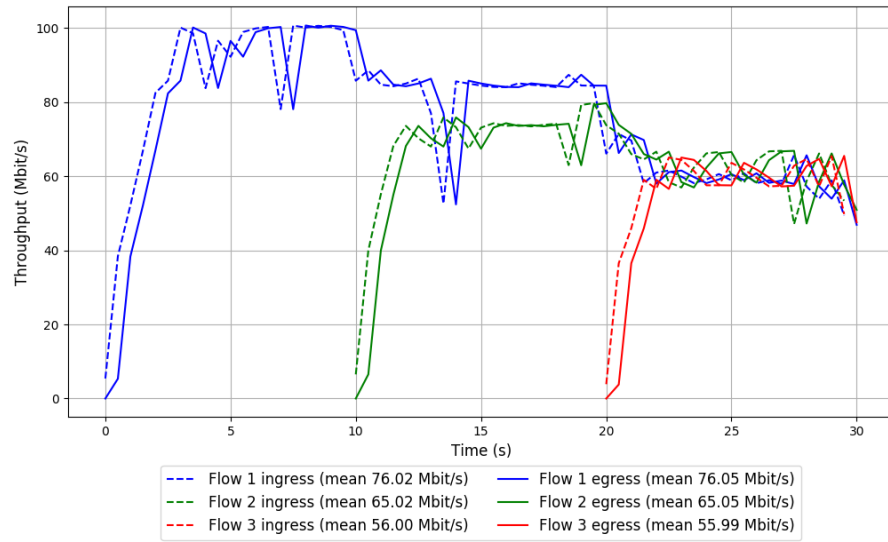
-- Flow 3:

Average throughput: 55.99 Mbit/s

95th percentile per-packet one-way delay: 1.056 ms

Loss rate: 0.20%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-07-10 22:53:31

End at: 2018-07-10 22:54:01

Local clock offset: 0.74 ms

Remote clock offset: 2.043 ms

Below is generated by plot.py at 2018-07-11 02:45:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 134.51 Mbit/s

95th percentile per-packet one-way delay: 0.996 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 74.14 Mbit/s

95th percentile per-packet one-way delay: 0.988 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 64.15 Mbit/s

95th percentile per-packet one-way delay: 0.999 ms

Loss rate: 0.07%

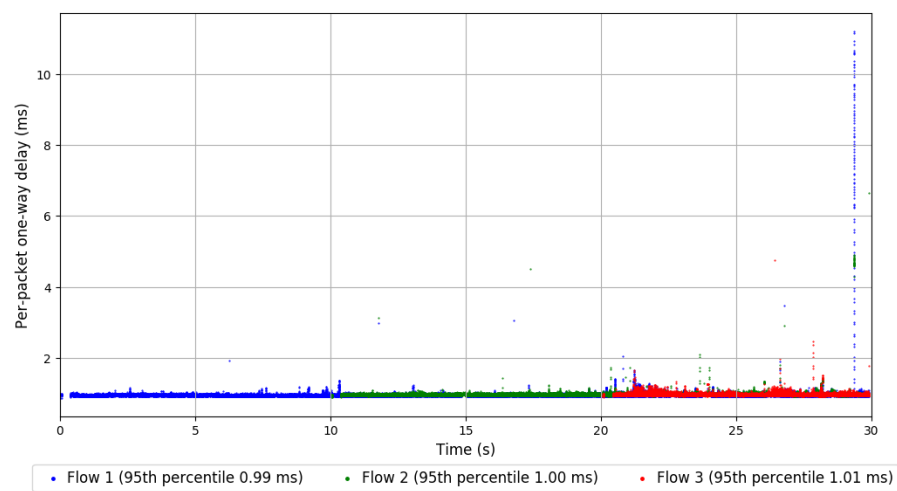
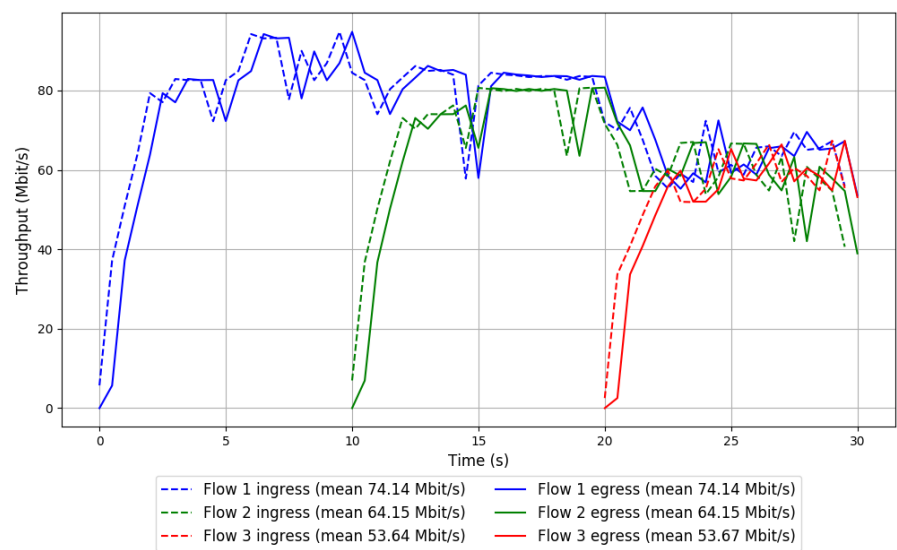
-- Flow 3:

Average throughput: 53.67 Mbit/s

95th percentile per-packet one-way delay: 1.009 ms

Loss rate: 0.23%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-07-10 23:20:24

End at: 2018-07-10 23:20:54

Local clock offset: 0.609 ms

Remote clock offset: 1.771 ms

Below is generated by plot.py at 2018-07-11 02:45:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 135.87 Mbit/s

95th percentile per-packet one-way delay: 1.125 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 72.47 Mbit/s

95th percentile per-packet one-way delay: 1.120 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 67.46 Mbit/s

95th percentile per-packet one-way delay: 1.135 ms

Loss rate: 0.09%

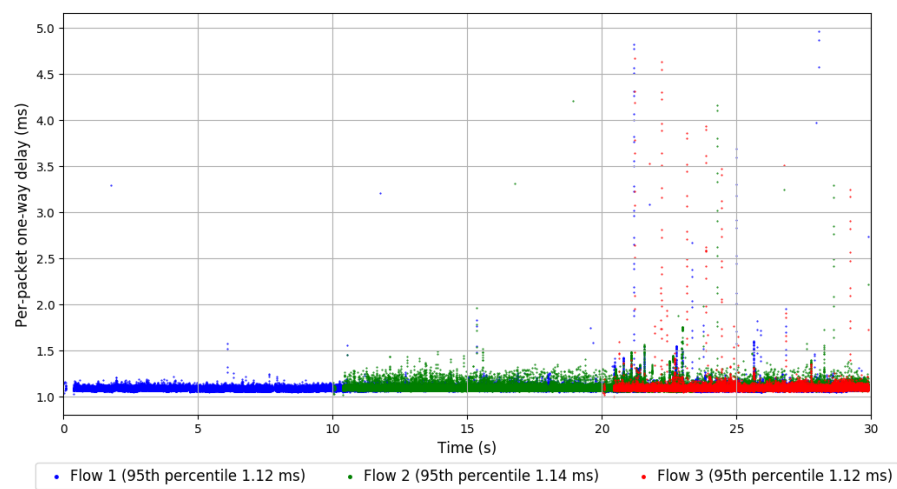
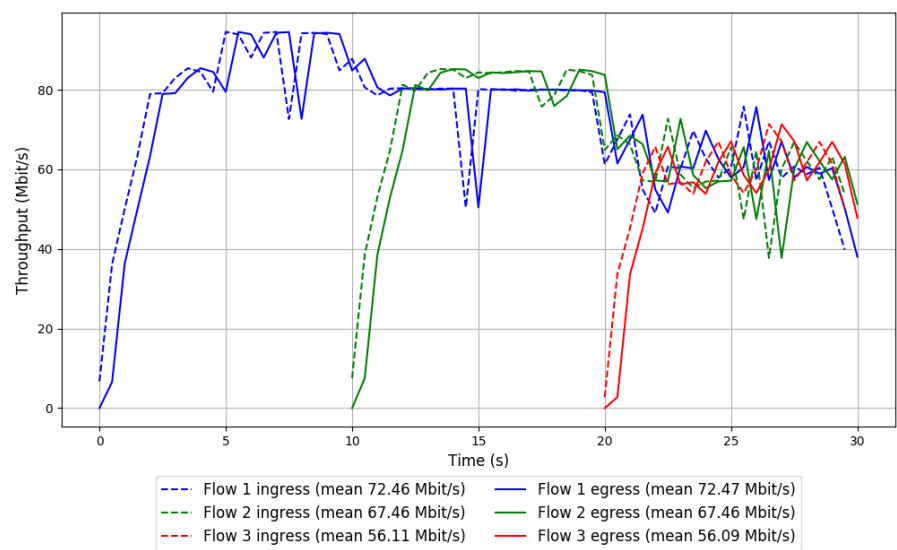
-- Flow 3:

Average throughput: 56.09 Mbit/s

95th percentile per-packet one-way delay: 1.123 ms

Loss rate: 0.21%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-07-10 23:47:09

End at: 2018-07-10 23:47:39

Local clock offset: 0.585 ms

Remote clock offset: 1.816 ms

Below is generated by plot.py at 2018-07-11 02:45:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 135.48 Mbit/s

95th percentile per-packet one-way delay: 0.979 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 73.56 Mbit/s

95th percentile per-packet one-way delay: 0.972 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 64.57 Mbit/s

95th percentile per-packet one-way delay: 0.976 ms

Loss rate: 0.09%

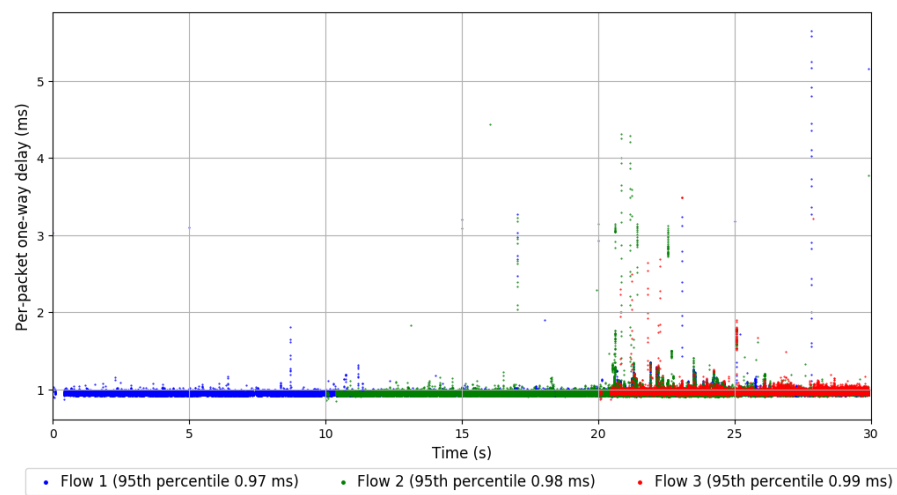
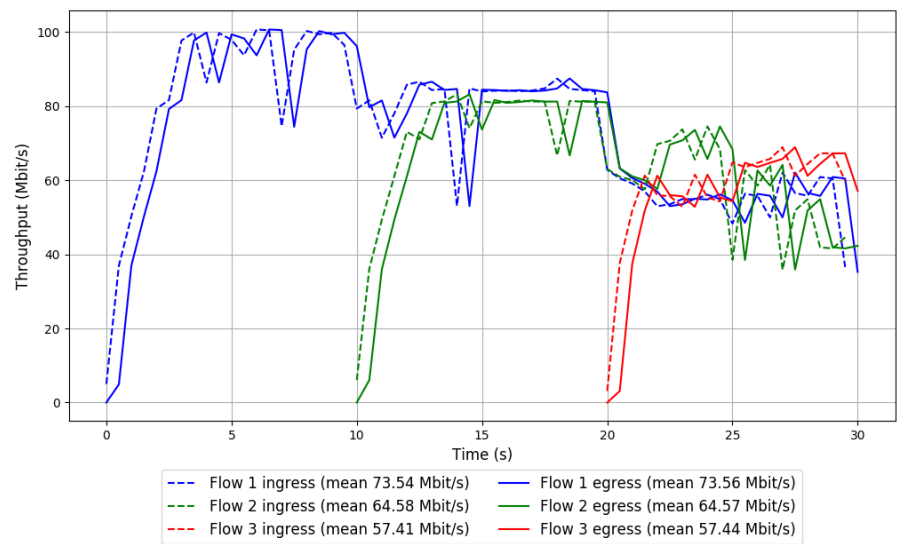
-- Flow 3:

Average throughput: 57.44 Mbit/s

95th percentile per-packet one-way delay: 0.995 ms

Loss rate: 0.25%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-07-11 00:14:05

End at: 2018-07-11 00:14:35

Local clock offset: 0.755 ms

Remote clock offset: 1.657 ms

Below is generated by plot.py at 2018-07-11 02:45:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 136.88 Mbit/s

95th percentile per-packet one-way delay: 1.073 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 77.74 Mbit/s

95th percentile per-packet one-way delay: 1.069 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.93 Mbit/s

95th percentile per-packet one-way delay: 1.066 ms

Loss rate: 0.12%

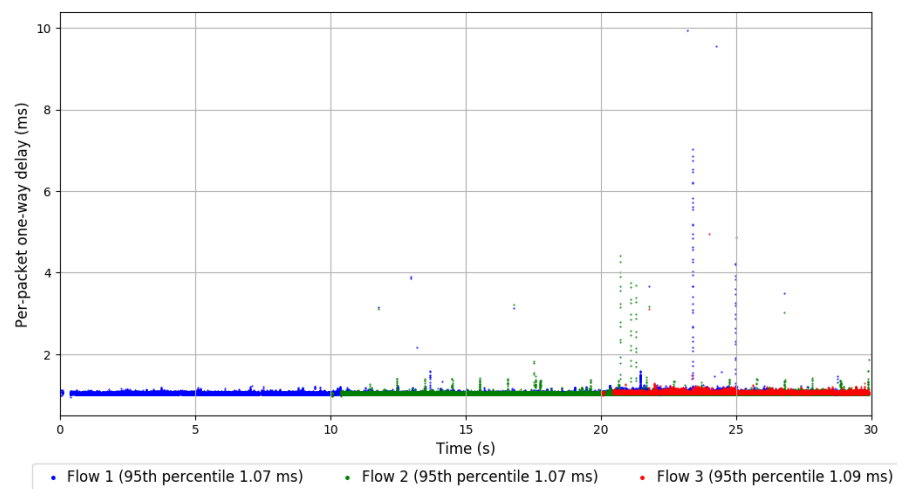
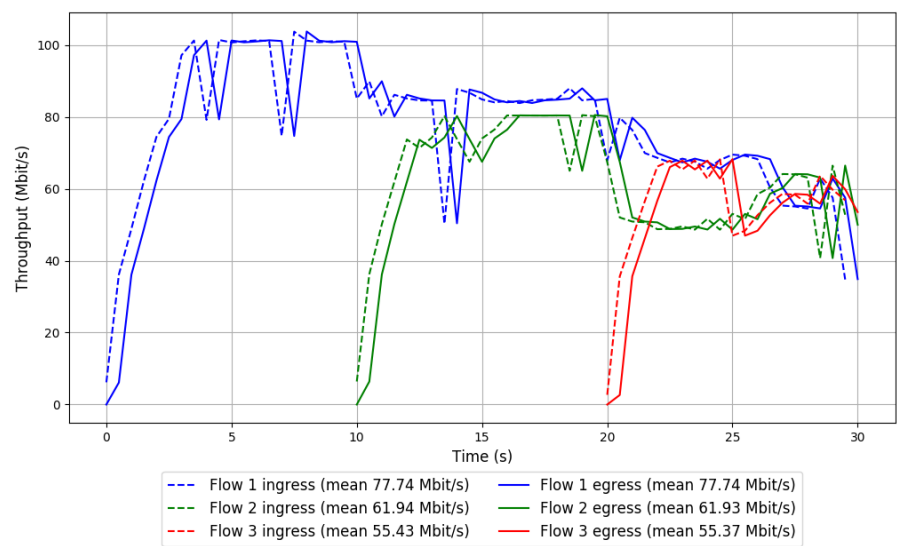
-- Flow 3:

Average throughput: 55.37 Mbit/s

95th percentile per-packet one-way delay: 1.088 ms

Loss rate: 0.30%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-07-11 00:41:03

End at: 2018-07-11 00:41:33

Local clock offset: 0.683 ms

Remote clock offset: 1.381 ms

Below is generated by plot.py at 2018-07-11 02:45:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 132.85 Mbit/s

95th percentile per-packet one-way delay: 1.074 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 70.68 Mbit/s

95th percentile per-packet one-way delay: 1.067 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 65.77 Mbit/s

95th percentile per-packet one-way delay: 1.083 ms

Loss rate: 0.08%

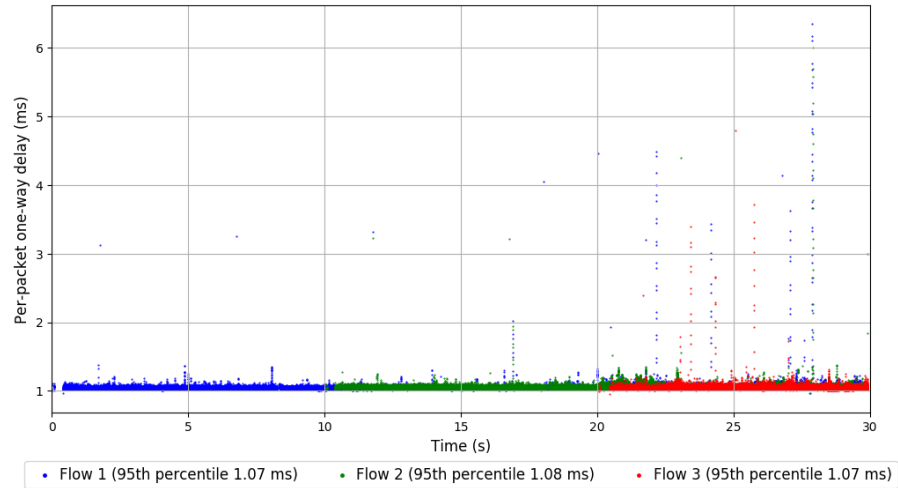
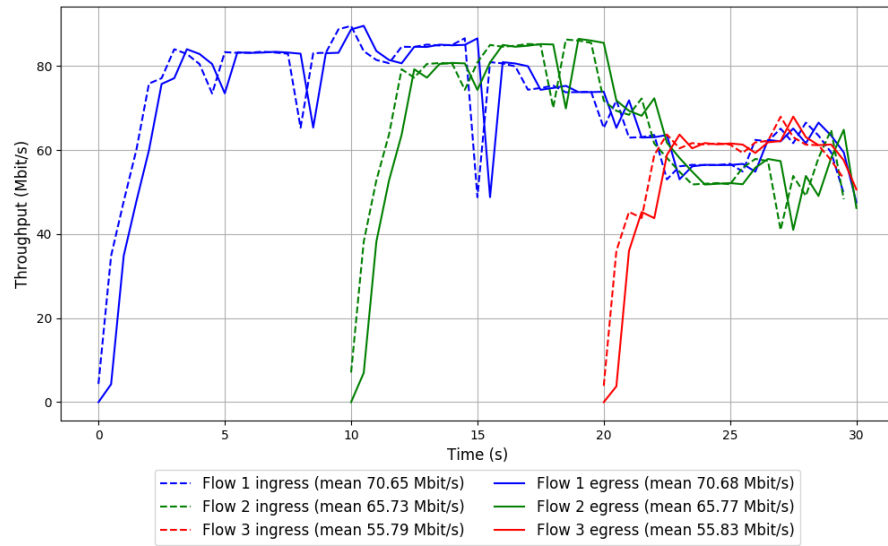
-- Flow 3:

Average throughput: 55.83 Mbit/s

95th percentile per-packet one-way delay: 1.075 ms

Loss rate: 0.24%

Run 10: Report of QUIC Cubic — Data Link

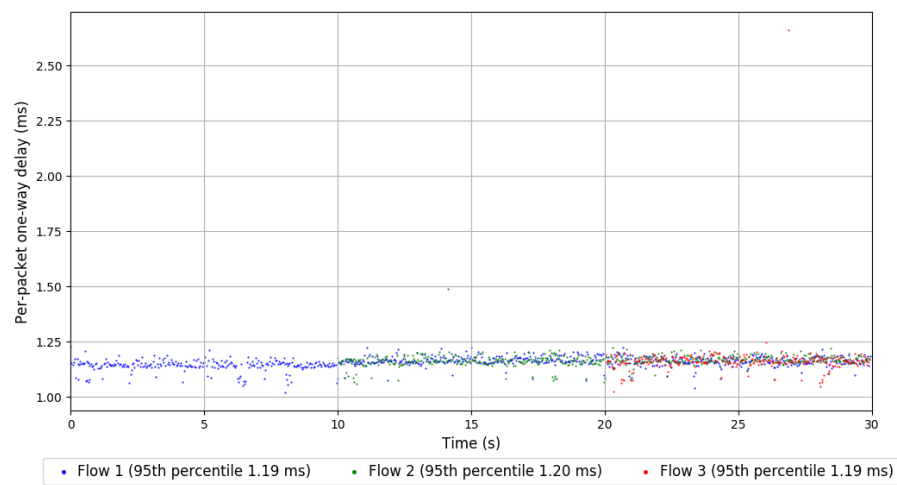
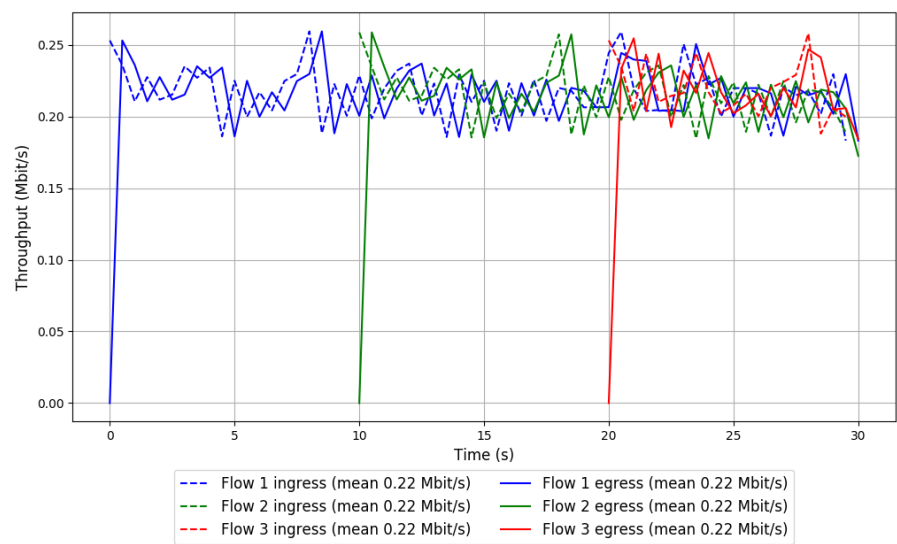


```
Run 1: Statistics of SReAM

Start at: 2018-07-10 20:19:21
End at: 2018-07-10 20:19:51
Local clock offset: 0.837 ms
Remote clock offset: 0.242 ms

# Below is generated by plot.py at 2018-07-11 02:45:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.194 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.192 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.197 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.193 ms
Loss rate: 0.35%
```


Run 1: Report of SReAM — Data Link

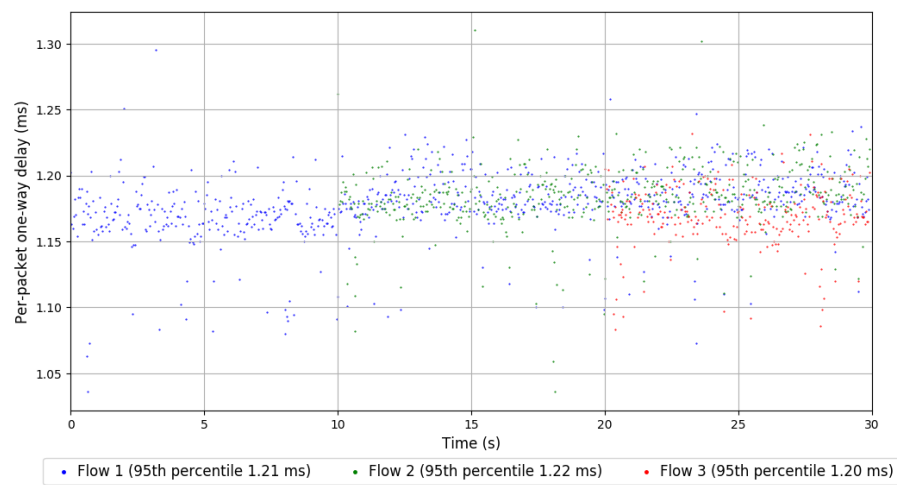
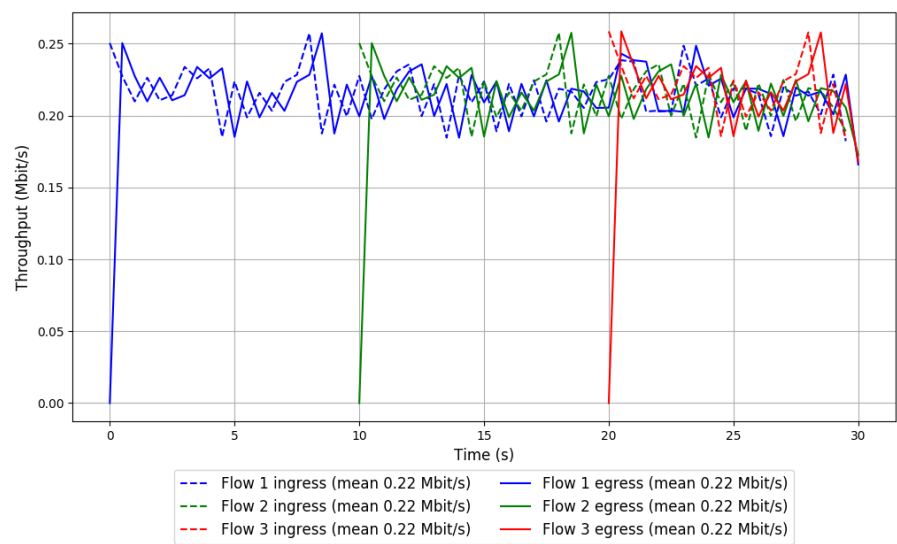


```
Run 2: Statistics of SReAM

Start at: 2018-07-10 20:46:21
End at: 2018-07-10 20:46:51
Local clock offset: 0.559 ms
Remote clock offset: 1.035 ms

# Below is generated by plot.py at 2018-07-11 02:45:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.214 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.214 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.220 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.202 ms
Loss rate: 0.35%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-07-10 21:13:10

End at: 2018-07-10 21:13:40

Local clock offset: 0.572 ms

Remote clock offset: 1.656 ms

Below is generated by plot.py at 2018-07-11 02:45:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.114 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.112 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.110 ms

Loss rate: 0.19%

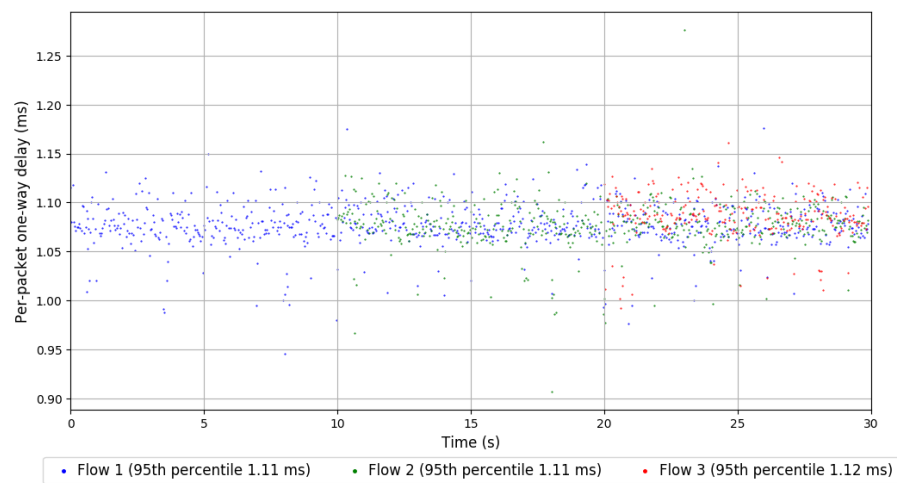
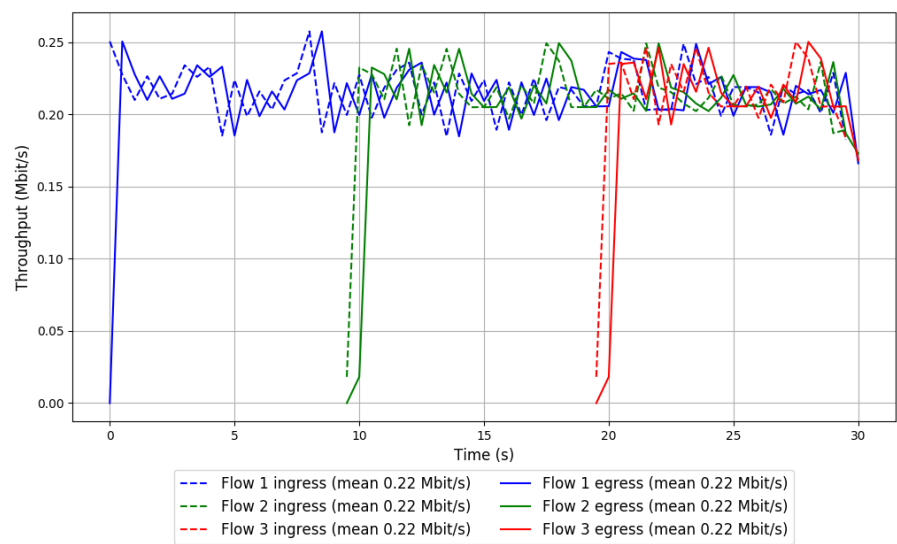
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.120 ms

Loss rate: 0.35%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-07-10 21:40:11

End at: 2018-07-10 21:40:41

Local clock offset: 0.646 ms

Remote clock offset: 2.249 ms

Below is generated by plot.py at 2018-07-11 02:45:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.132 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.126 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.133 ms

Loss rate: 0.00%

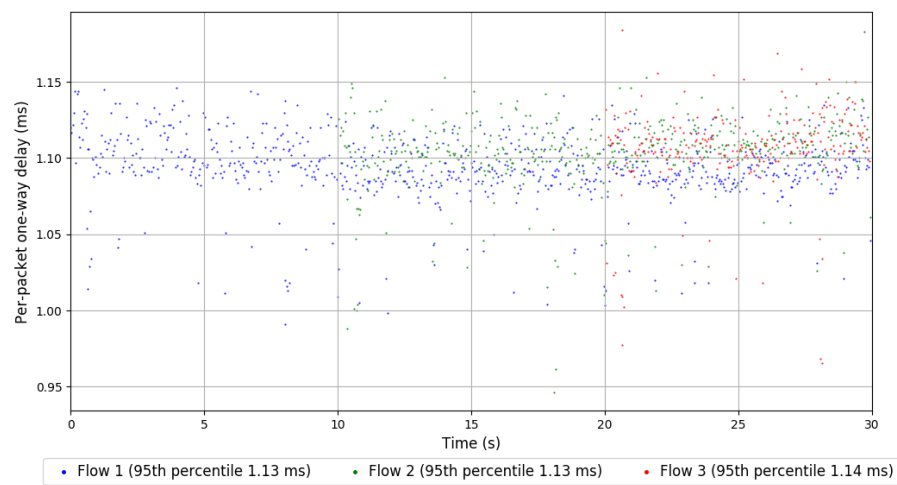
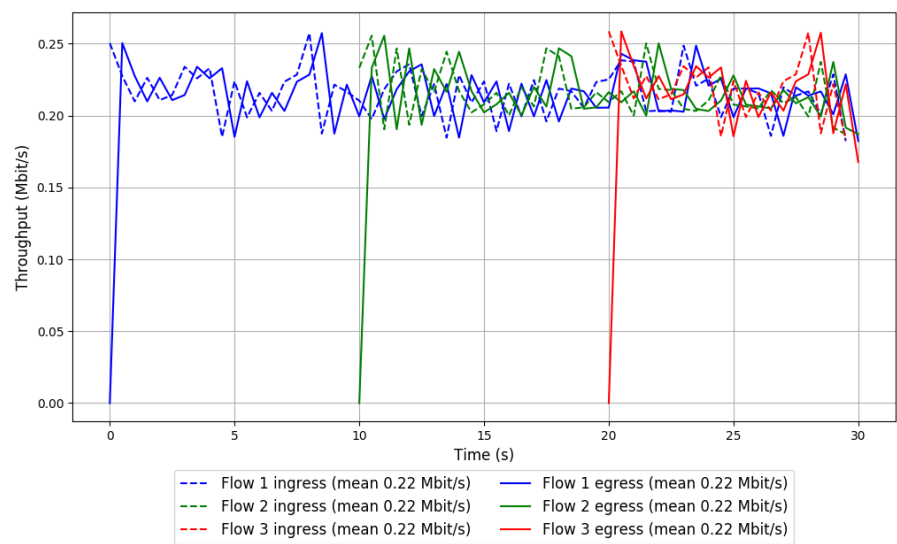
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.139 ms

Loss rate: 0.35%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-07-10 22:07:06

End at: 2018-07-10 22:07:36

Local clock offset: 0.698 ms

Remote clock offset: 2.268 ms

Below is generated by plot.py at 2018-07-11 02:45:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.226 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.220 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.221 ms

Loss rate: 0.19%

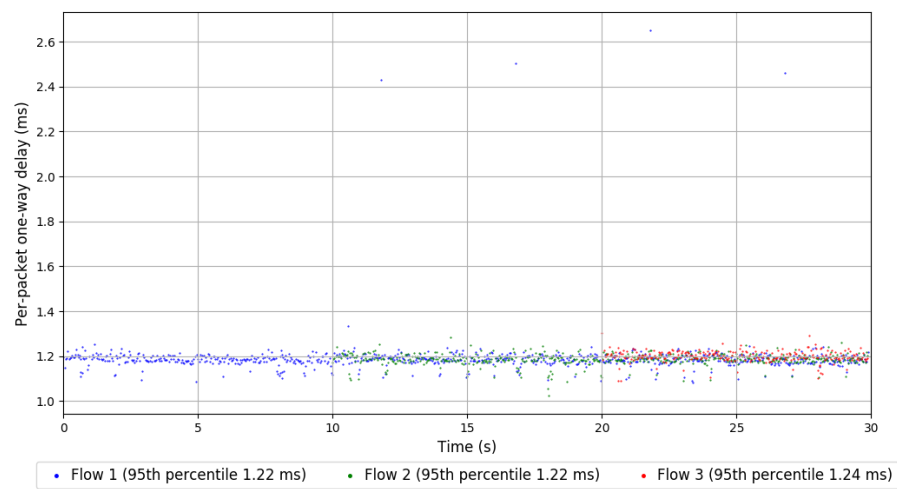
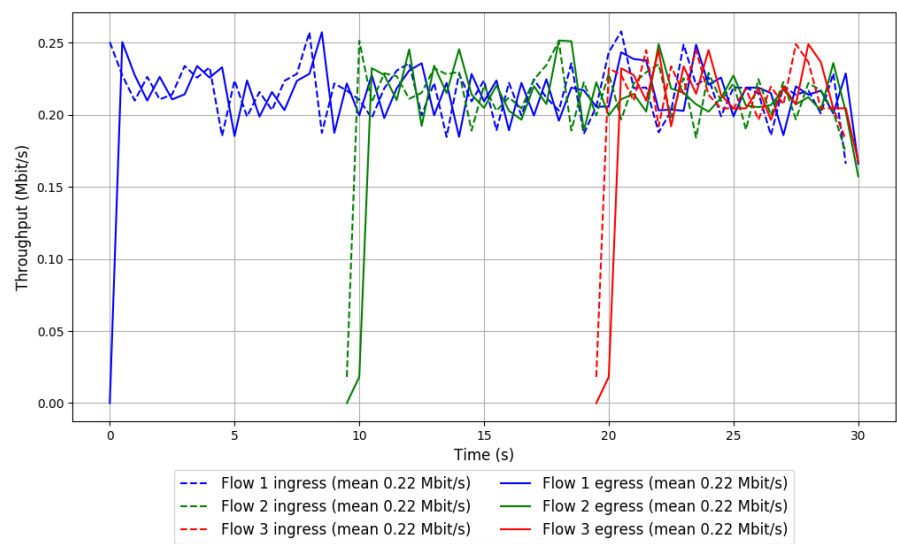
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.235 ms

Loss rate: 0.35%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-07-10 22:34:06

End at: 2018-07-10 22:34:36

Local clock offset: 0.887 ms

Remote clock offset: 2.208 ms

Below is generated by plot.py at 2018-07-11 02:45:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.177 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.175 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.181 ms

Loss rate: 0.19%

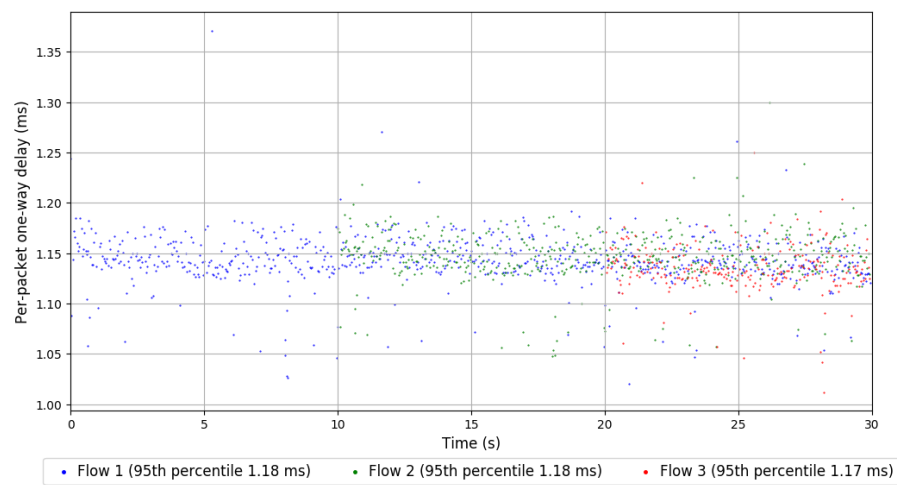
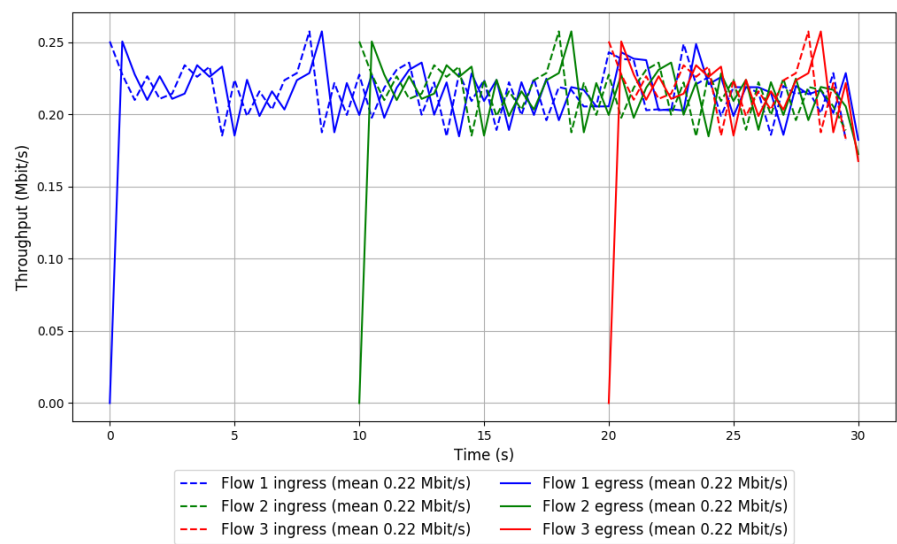
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.170 ms

Loss rate: 0.36%

Run 6: Report of SReAM — Data Link

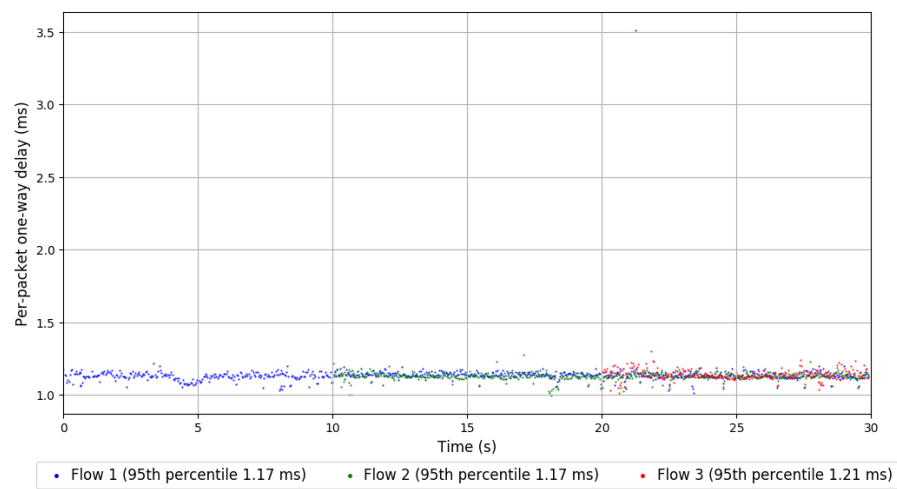
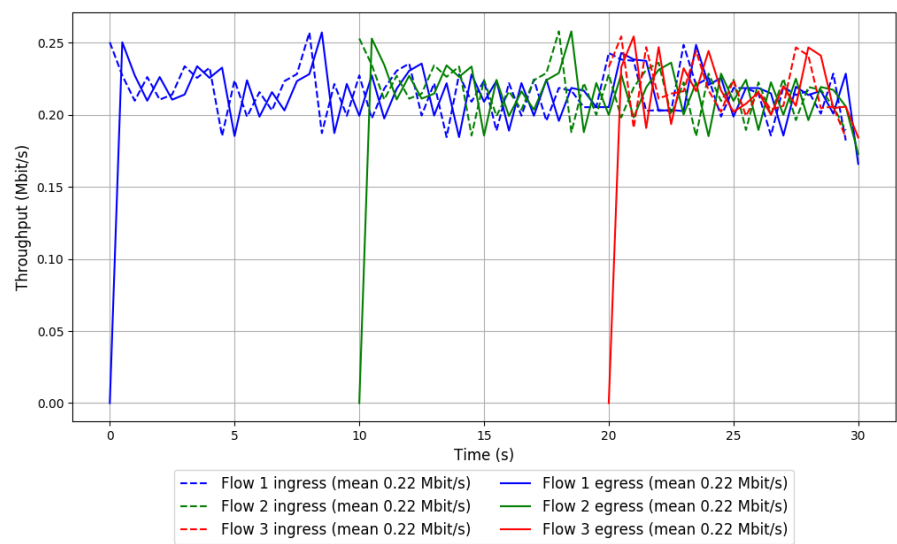


Run 7: Statistics of SReAM

Start at: 2018-07-10 23:01:04
End at: 2018-07-10 23:01:34
Local clock offset: 0.785 ms
Remote clock offset: 1.985 ms

Below is generated by plot.py at 2018-07-11 02:45:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.176 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.171 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.166 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.207 ms
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-07-10 23:27:53

End at: 2018-07-10 23:28:23

Local clock offset: 0.551 ms

Remote clock offset: 1.731 ms

Below is generated by plot.py at 2018-07-11 02:45:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.213 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.218 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.204 ms

Loss rate: 0.00%

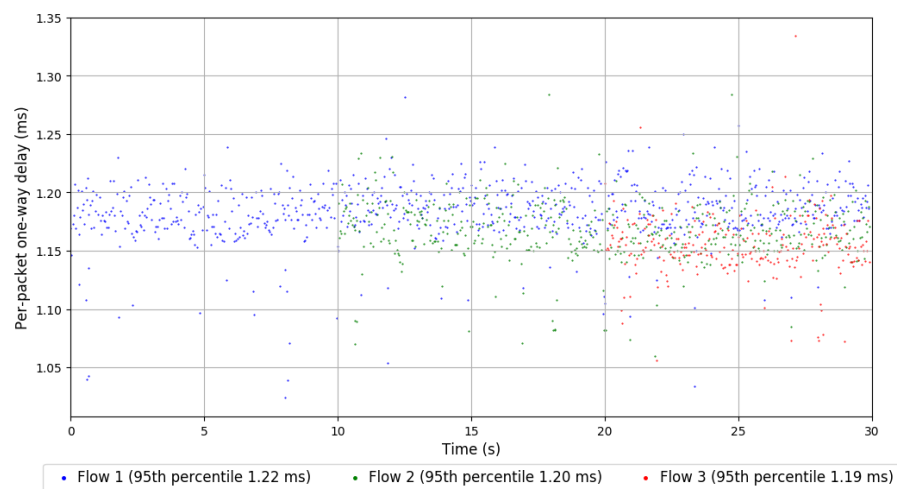
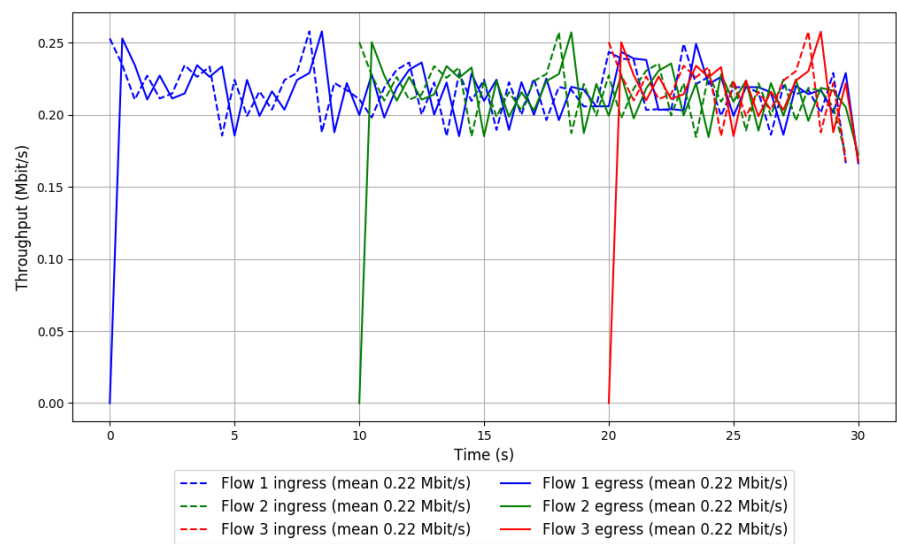
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.186 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-07-10 23:54:44

End at: 2018-07-10 23:55:14

Local clock offset: 0.652 ms

Remote clock offset: 1.67 ms

Below is generated by plot.py at 2018-07-11 02:45:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.189 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.193 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.182 ms

Loss rate: 0.19%

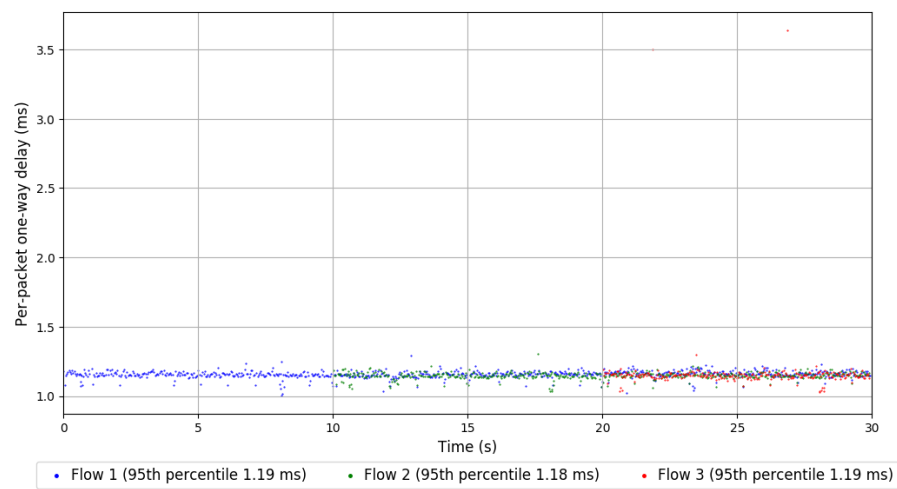
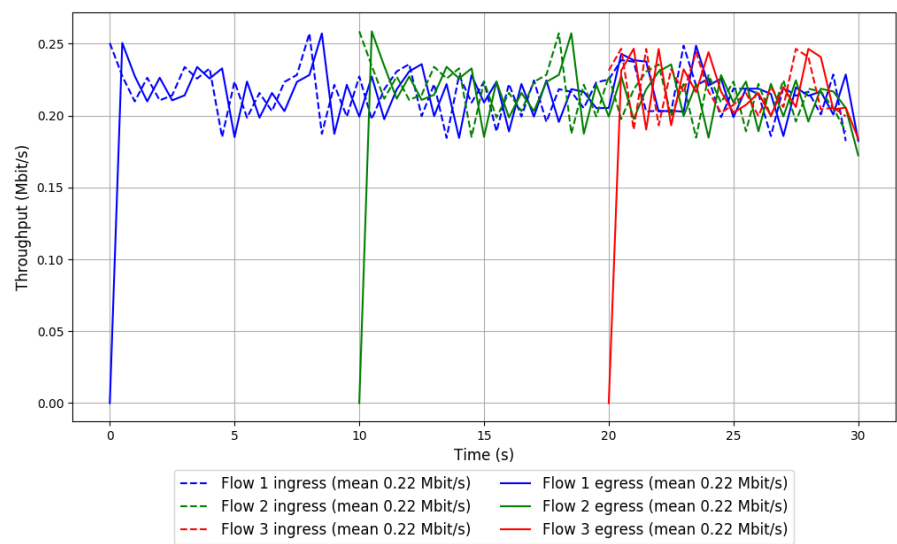
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.185 ms

Loss rate: 0.36%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-07-11 00:21:38

End at: 2018-07-11 00:22:08

Local clock offset: 0.812 ms

Remote clock offset: 1.605 ms

Below is generated by plot.py at 2018-07-11 02:45:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.170 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.169 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.175 ms

Loss rate: 0.00%

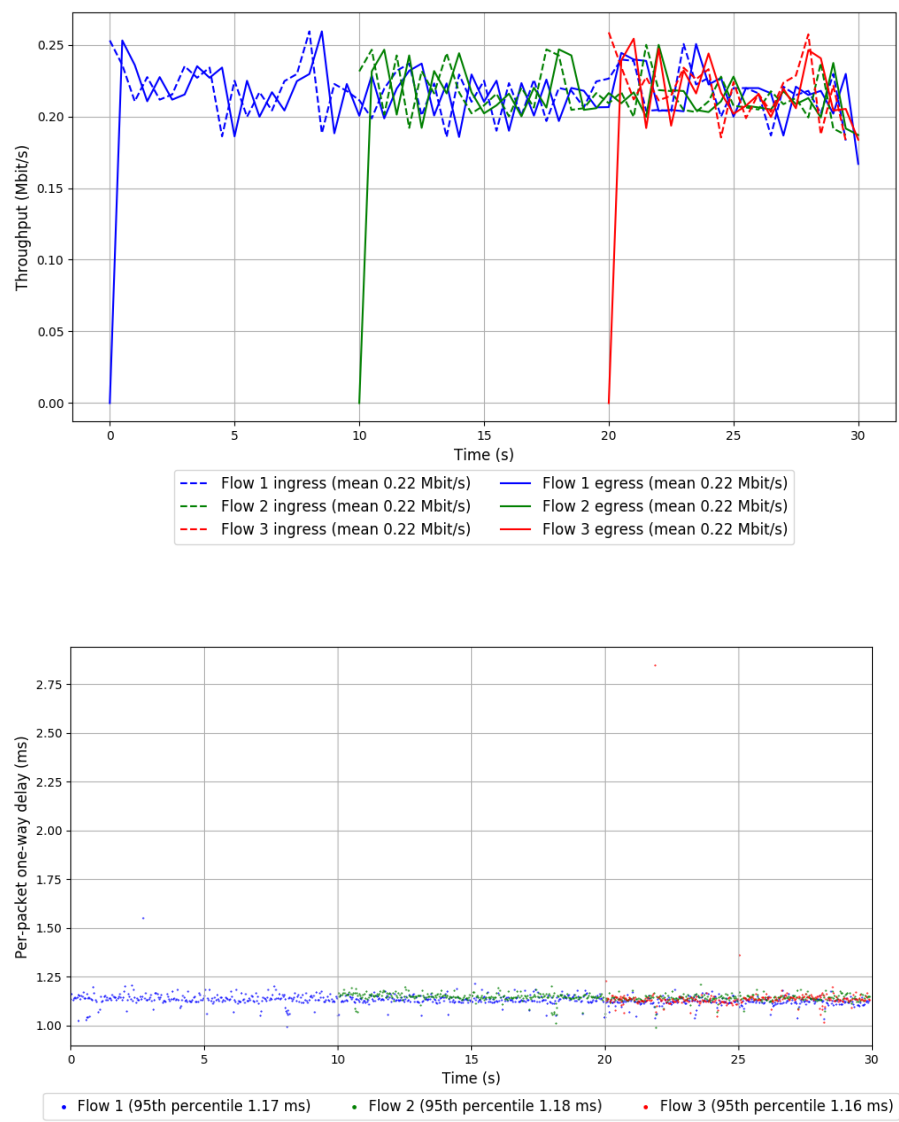
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.161 ms

Loss rate: 0.35%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-07-10 20:40:09

End at: 2018-07-10 20:40:39

Local clock offset: 0.57 ms

Remote clock offset: 0.856 ms

Below is generated by plot.py at 2018-07-11 02:45:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 42.30 Mbit/s

95th percentile per-packet one-way delay: 1.157 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 21.14 Mbit/s

95th percentile per-packet one-way delay: 1.147 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 21.30 Mbit/s

95th percentile per-packet one-way delay: 1.166 ms

Loss rate: 0.00%

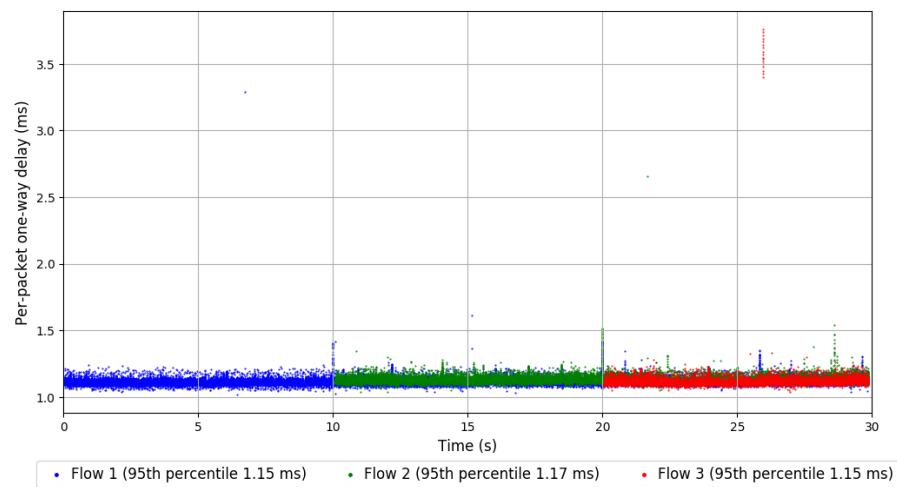
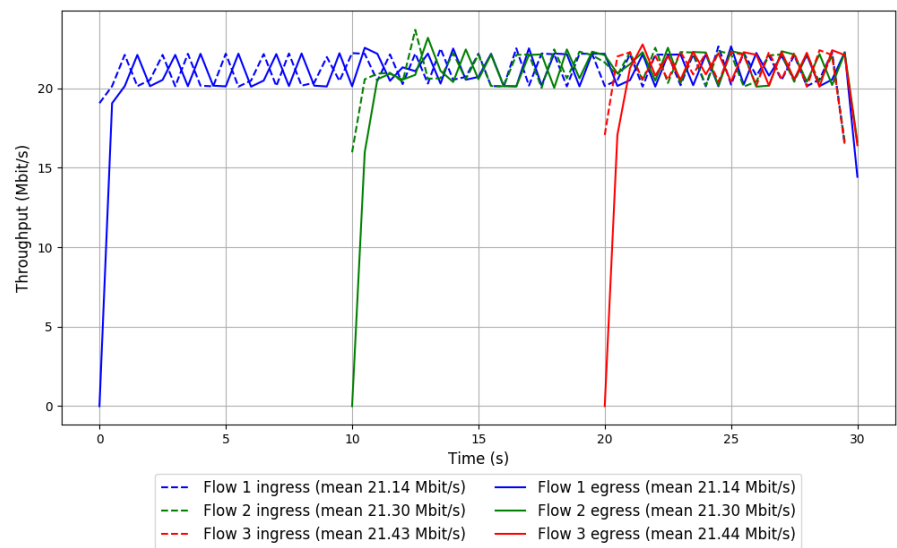
-- Flow 3:

Average throughput: 21.44 Mbit/s

95th percentile per-packet one-way delay: 1.150 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-07-10 21:07:01

End at: 2018-07-10 21:07:31

Local clock offset: 0.635 ms

Remote clock offset: 1.555 ms

Below is generated by plot.py at 2018-07-11 02:45:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 42.51 Mbit/s

95th percentile per-packet one-way delay: 1.091 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 21.37 Mbit/s

95th percentile per-packet one-way delay: 1.092 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 21.41 Mbit/s

95th percentile per-packet one-way delay: 1.088 ms

Loss rate: 0.00%

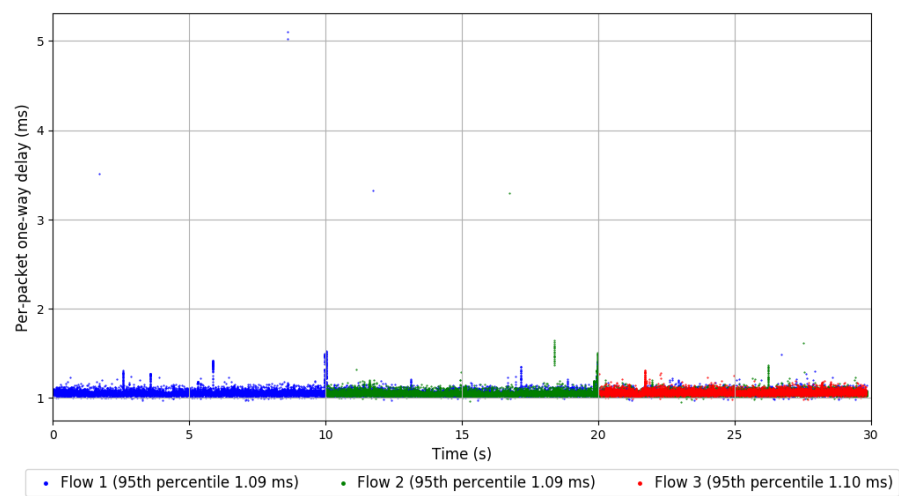
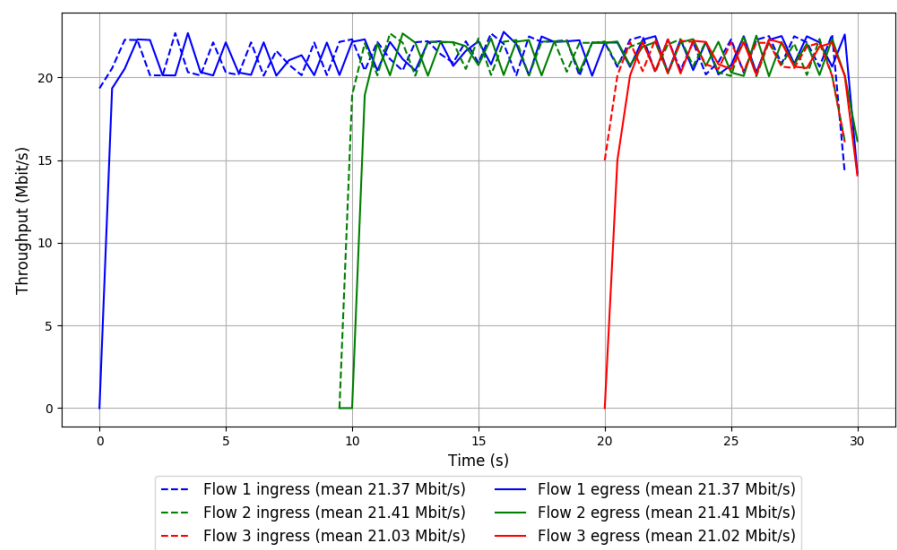
-- Flow 3:

Average throughput: 21.02 Mbit/s

95th percentile per-packet one-way delay: 1.096 ms

Loss rate: 0.49%

Run 2: Report of Sprout — Data Link

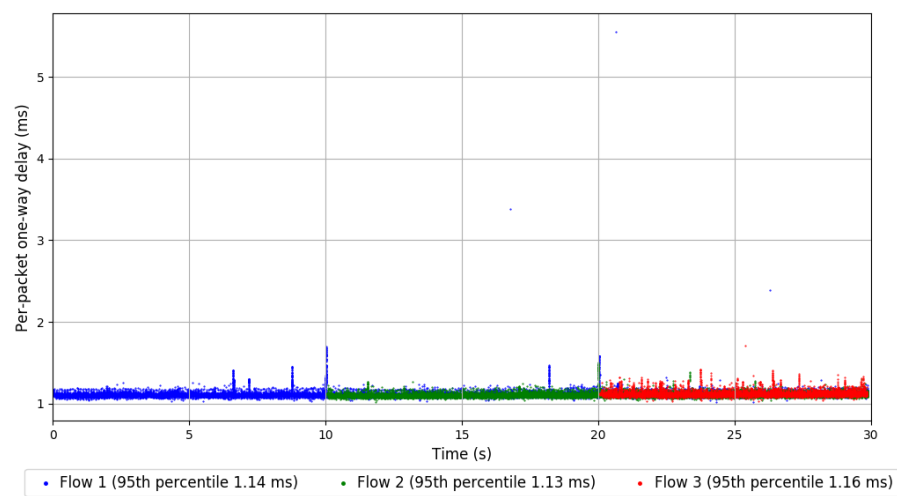
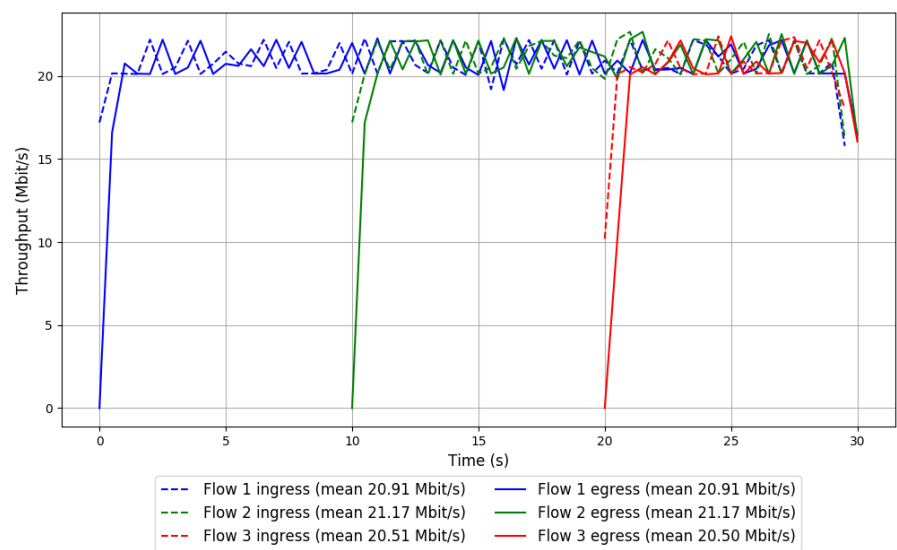


Run 3: Statistics of Sprout

Start at: 2018-07-10 21:33:53
End at: 2018-07-10 21:34:23
Local clock offset: 0.664 ms
Remote clock offset: 2.068 ms

```
# Below is generated by plot.py at 2018-07-11 02:45:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 41.68 Mbit/s
95th percentile per-packet one-way delay: 1.141 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 20.91 Mbit/s
95th percentile per-packet one-way delay: 1.140 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 21.17 Mbit/s
95th percentile per-packet one-way delay: 1.134 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 20.50 Mbit/s
95th percentile per-packet one-way delay: 1.155 ms
Loss rate: 0.50%
```


Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-07-10 22:00:55

End at: 2018-07-10 22:01:25

Local clock offset: 0.55 ms

Remote clock offset: 2.401 ms

Below is generated by plot.py at 2018-07-11 02:45:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 42.02 Mbit/s

95th percentile per-packet one-way delay: 0.959 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 21.46 Mbit/s

95th percentile per-packet one-way delay: 0.959 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 20.79 Mbit/s

95th percentile per-packet one-way delay: 0.952 ms

Loss rate: 0.00%

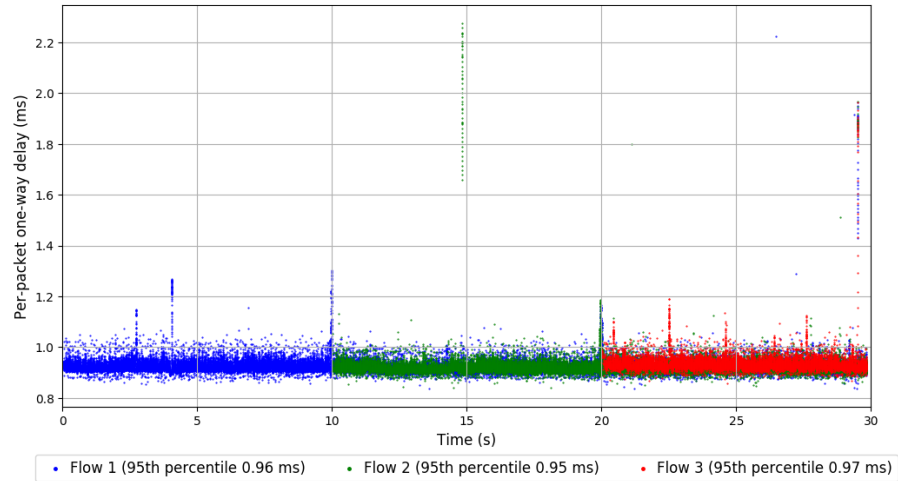
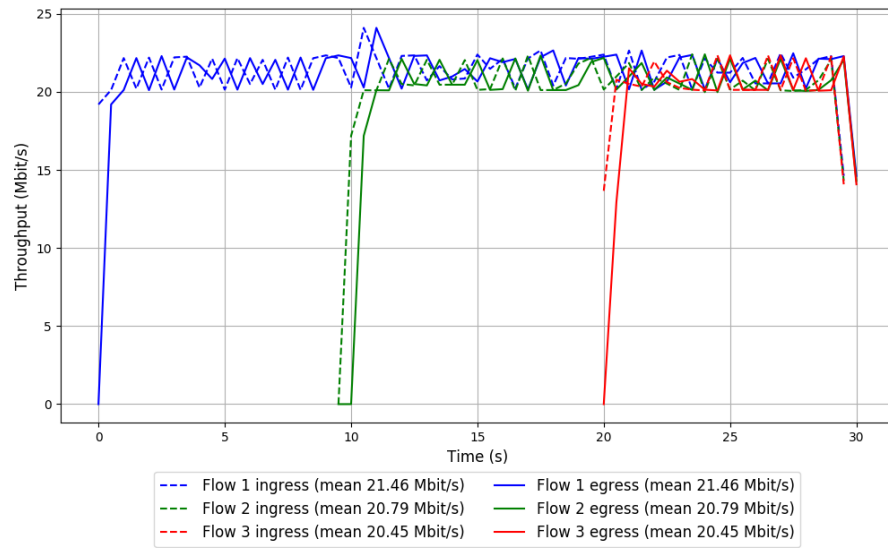
-- Flow 3:

Average throughput: 20.45 Mbit/s

95th percentile per-packet one-way delay: 0.970 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-07-10 22:27:54

End at: 2018-07-10 22:28:24

Local clock offset: 0.83 ms

Remote clock offset: 2.247 ms

Below is generated by plot.py at 2018-07-11 02:45:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.73 Mbit/s

95th percentile per-packet one-way delay: 1.121 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 20.87 Mbit/s

95th percentile per-packet one-way delay: 1.116 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 21.15 Mbit/s

95th percentile per-packet one-way delay: 1.129 ms

Loss rate: 0.00%

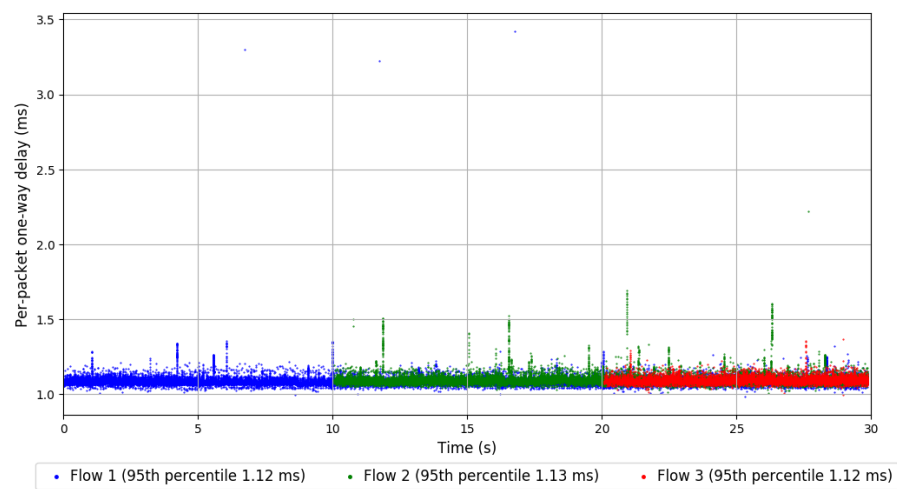
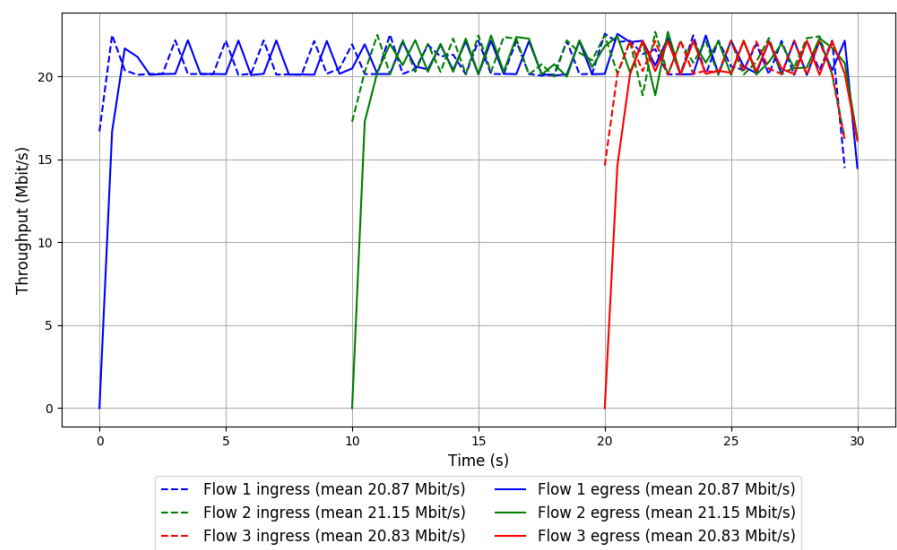
-- Flow 3:

Average throughput: 20.83 Mbit/s

95th percentile per-packet one-way delay: 1.121 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-07-10 22:54:54

End at: 2018-07-10 22:55:24

Local clock offset: 0.814 ms

Remote clock offset: 2.056 ms

Below is generated by plot.py at 2018-07-11 02:45:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.59 Mbit/s

95th percentile per-packet one-way delay: 1.075 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 21.08 Mbit/s

95th percentile per-packet one-way delay: 1.081 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 20.71 Mbit/s

95th percentile per-packet one-way delay: 1.065 ms

Loss rate: 0.00%

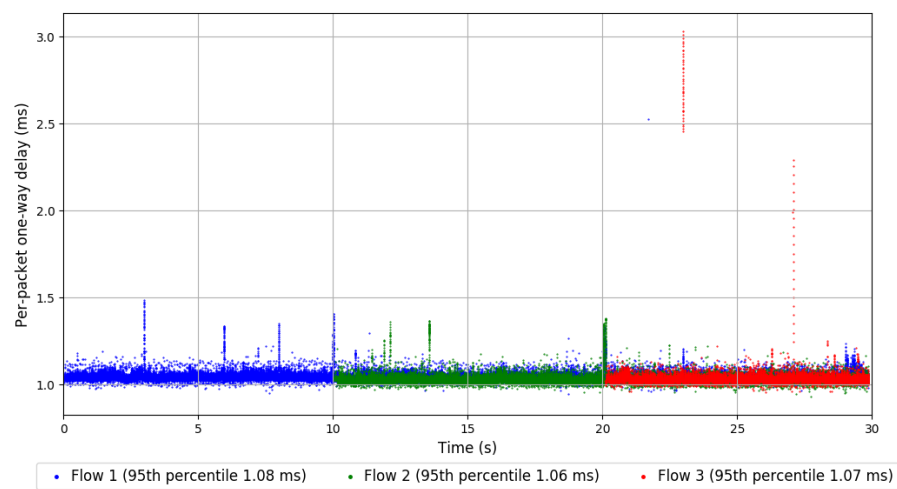
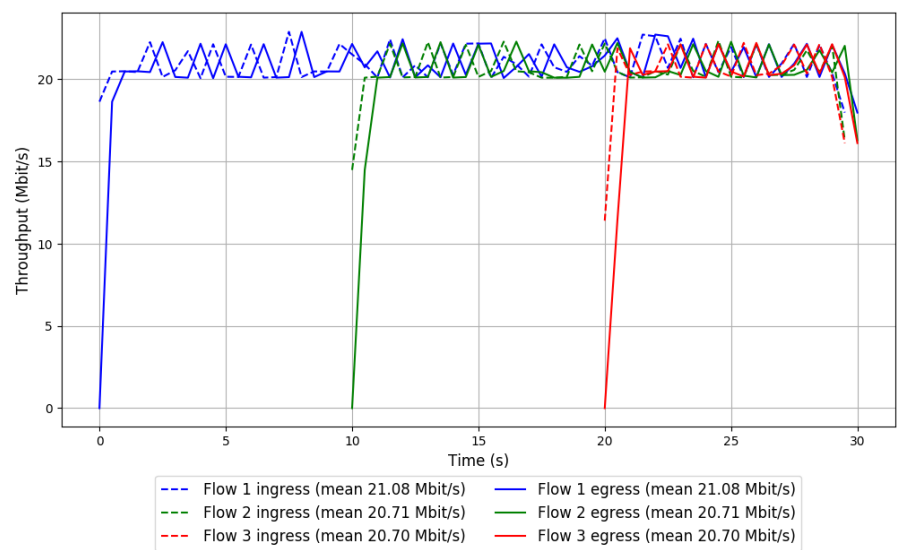
-- Flow 3:

Average throughput: 20.70 Mbit/s

95th percentile per-packet one-way delay: 1.068 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-07-10 23:21:47

End at: 2018-07-10 23:22:17

Local clock offset: 0.508 ms

Remote clock offset: 1.859 ms

Below is generated by plot.py at 2018-07-11 02:45:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.37 Mbit/s

95th percentile per-packet one-way delay: 0.951 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 20.75 Mbit/s

95th percentile per-packet one-way delay: 0.947 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 20.82 Mbit/s

95th percentile per-packet one-way delay: 0.945 ms

Loss rate: 0.23%

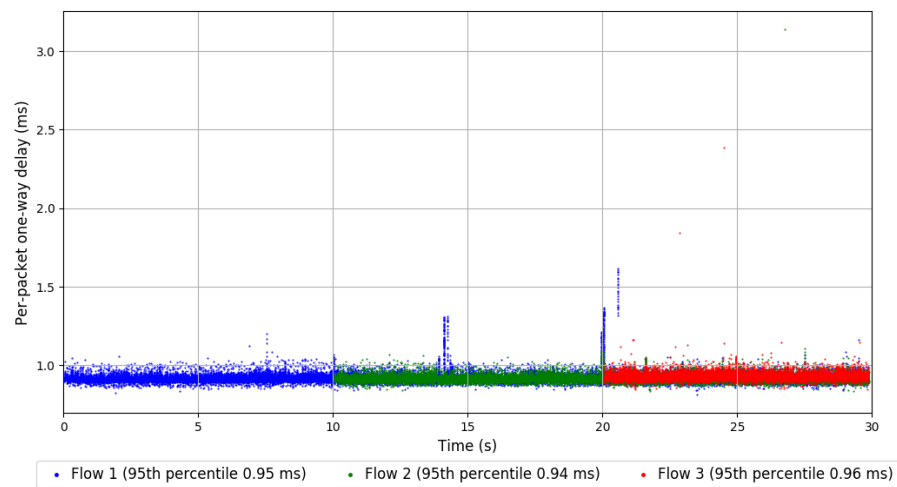
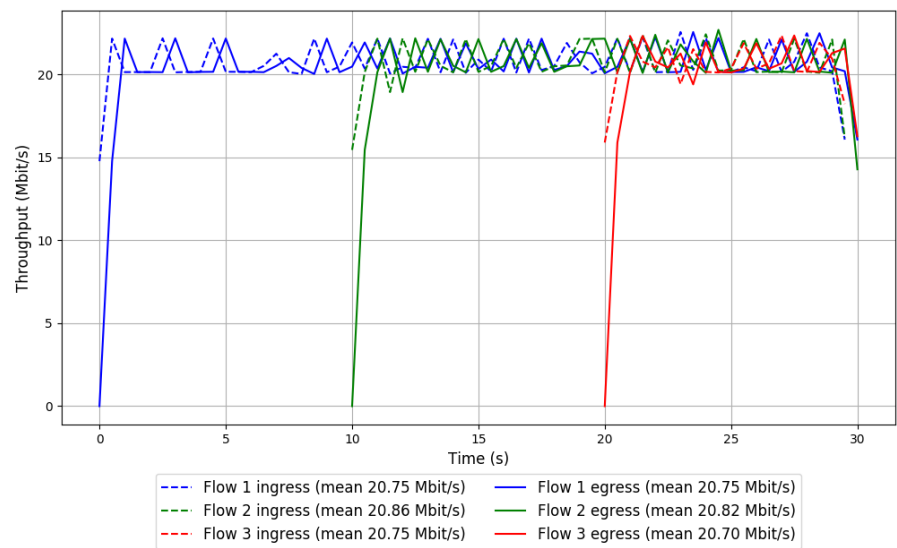
-- Flow 3:

Average throughput: 20.70 Mbit/s

95th percentile per-packet one-way delay: 0.963 ms

Loss rate: 0.48%

Run 7: Report of Sprout — Data Link

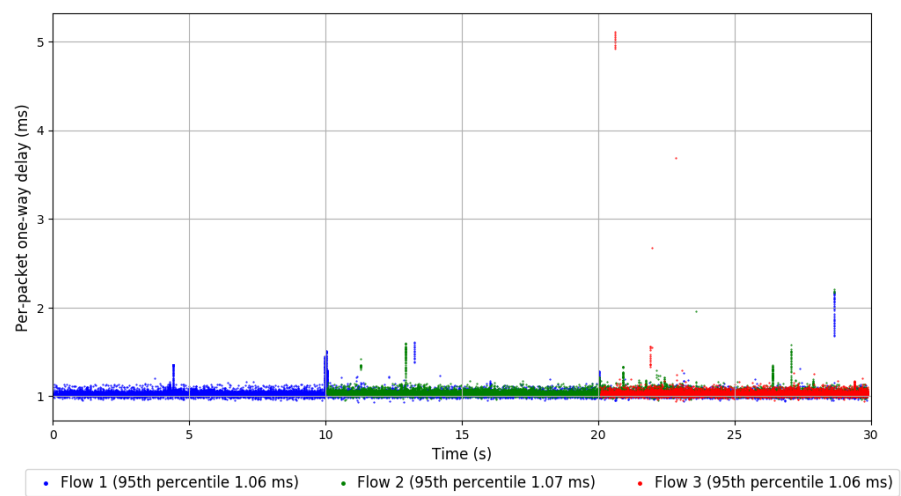
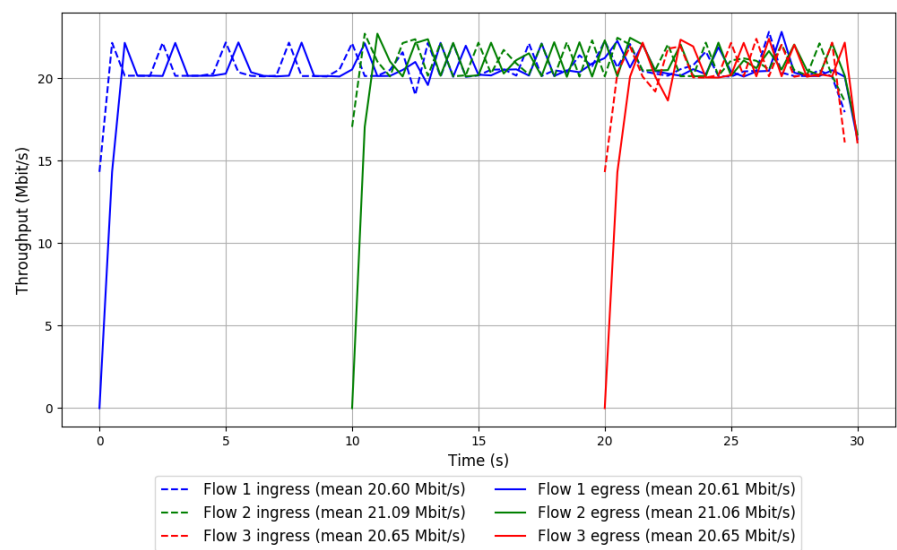


Run 8: Statistics of Sprout

Start at: 2018-07-10 23:48:32
End at: 2018-07-10 23:49:02
Local clock offset: 0.587 ms
Remote clock offset: 1.744 ms

```
# Below is generated by plot.py at 2018-07-11 02:45:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 41.35 Mbit/s
95th percentile per-packet one-way delay: 1.064 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 20.61 Mbit/s
95th percentile per-packet one-way delay: 1.057 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 21.06 Mbit/s
95th percentile per-packet one-way delay: 1.070 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 20.65 Mbit/s
95th percentile per-packet one-way delay: 1.063 ms
Loss rate: 0.00%
```

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-07-11 00:15:28

End at: 2018-07-11 00:15:58

Local clock offset: 0.76 ms

Remote clock offset: 1.669 ms

Below is generated by plot.py at 2018-07-11 02:45:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.29 Mbit/s

95th percentile per-packet one-way delay: 1.080 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 20.63 Mbit/s

95th percentile per-packet one-way delay: 1.082 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 20.99 Mbit/s

95th percentile per-packet one-way delay: 1.072 ms

Loss rate: 0.00%

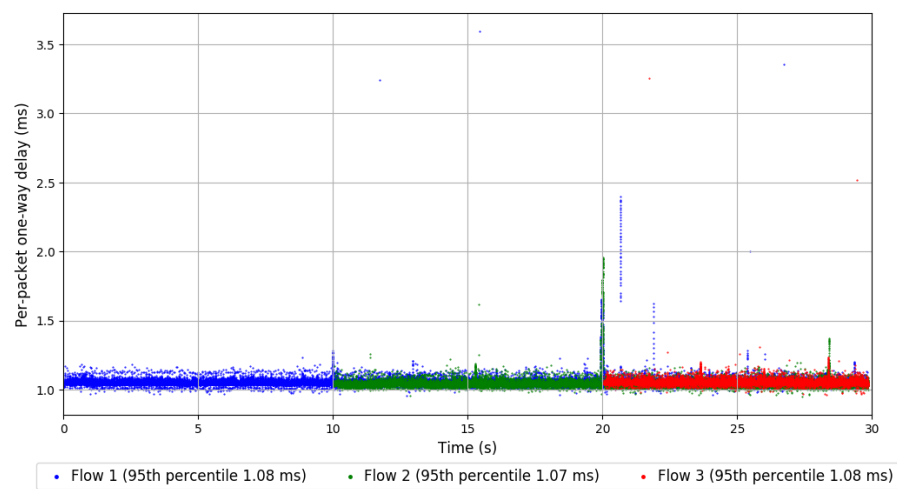
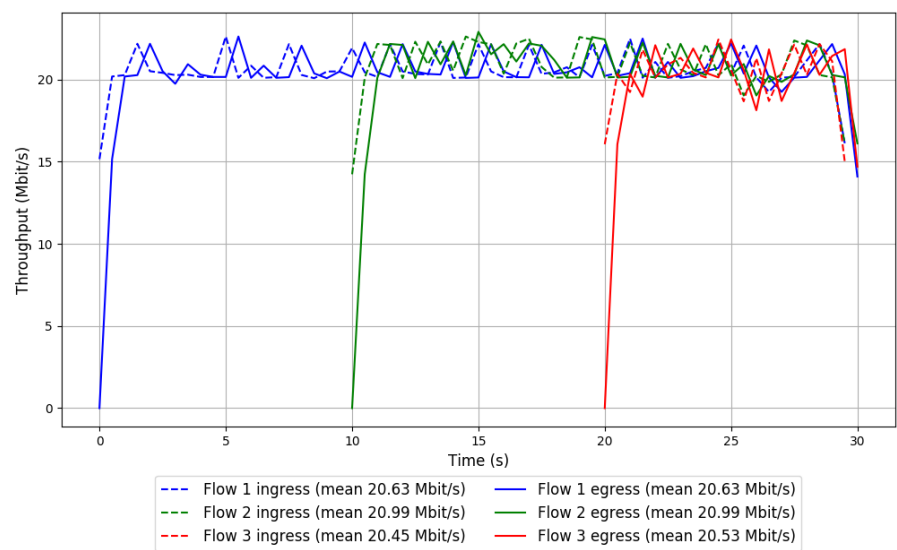
-- Flow 3:

Average throughput: 20.53 Mbit/s

95th percentile per-packet one-way delay: 1.084 ms

Loss rate: 0.08%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-07-11 00:42:26

End at: 2018-07-11 00:42:56

Local clock offset: 0.679 ms

Remote clock offset: 1.456 ms

Below is generated by plot.py at 2018-07-11 02:45:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.29 Mbit/s

95th percentile per-packet one-way delay: 1.016 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 20.77 Mbit/s

95th percentile per-packet one-way delay: 1.014 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 20.73 Mbit/s

95th percentile per-packet one-way delay: 1.018 ms

Loss rate: 0.24%

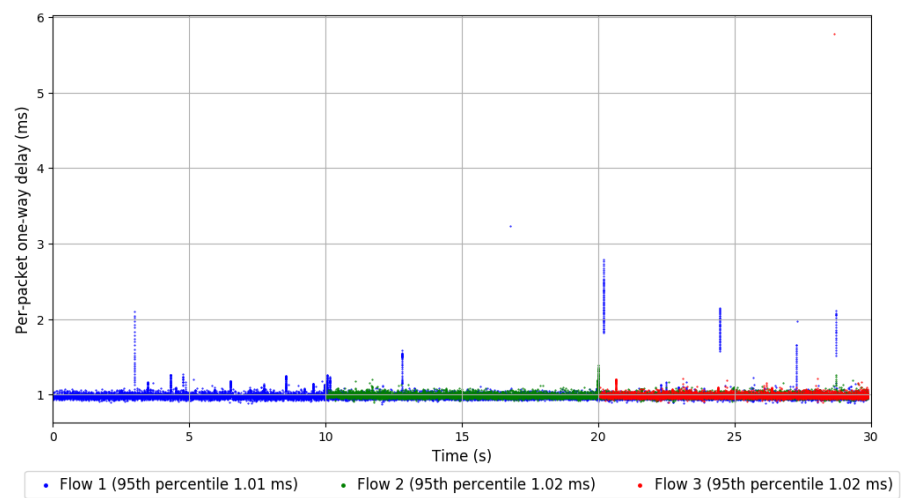
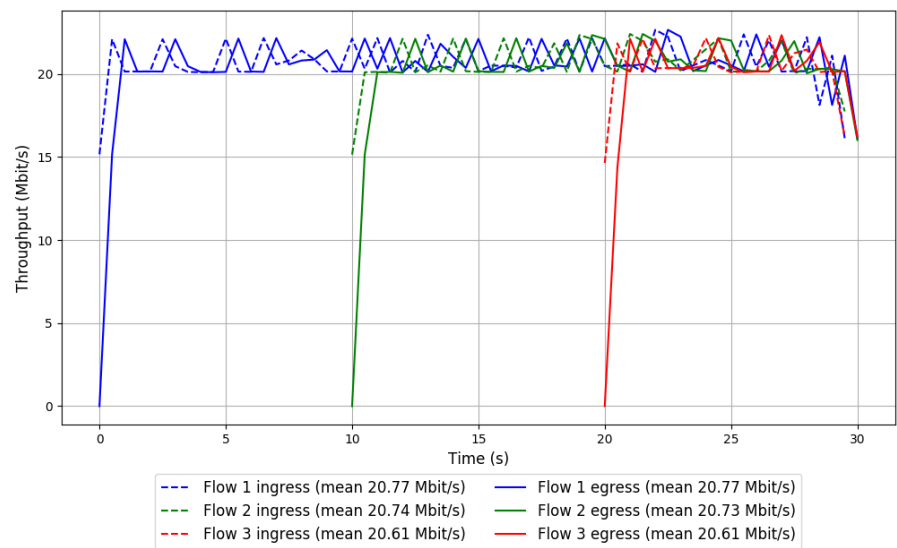
-- Flow 3:

Average throughput: 20.61 Mbit/s

95th percentile per-packet one-way delay: 1.017 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

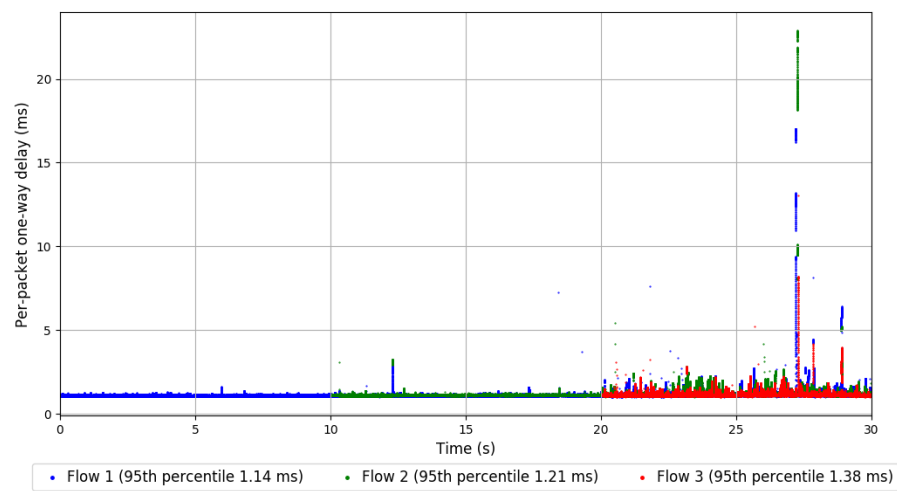
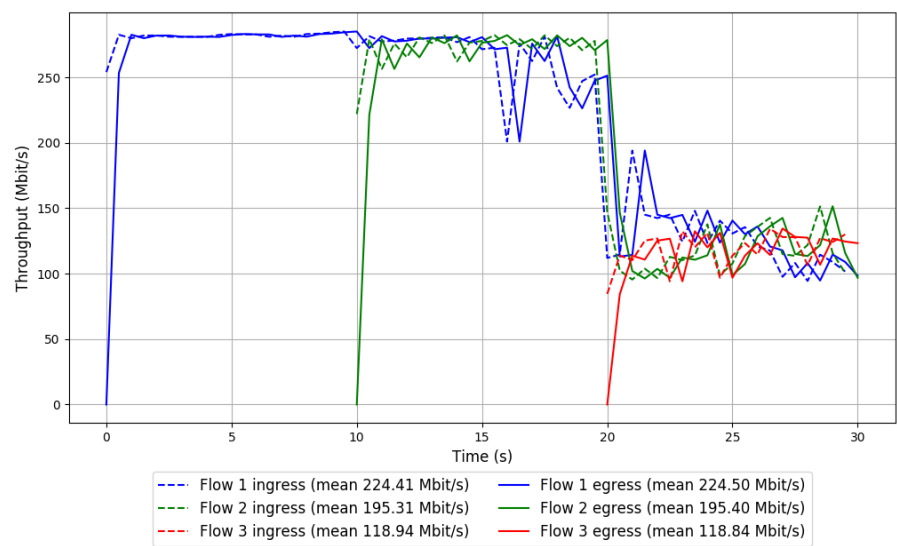


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-07-10 20:16:07
End at: 2018-07-10 20:16:37
Local clock offset: 0.907 ms
Remote clock offset: 0.12 ms

# Below is generated by plot.py at 2018-07-11 02:51:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 393.94 Mbit/s
95th percentile per-packet one-way delay: 1.184 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 224.50 Mbit/s
95th percentile per-packet one-way delay: 1.136 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 195.40 Mbit/s
95th percentile per-packet one-way delay: 1.213 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 118.84 Mbit/s
95th percentile per-packet one-way delay: 1.380 ms
Loss rate: 0.28%
```


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



Run 2: Statistics of TaoVA-100x

Start at: 2018-07-10 20:43:06

End at: 2018-07-10 20:43:36

Local clock offset: 0.556 ms

Remote clock offset: 0.956 ms

Below is generated by plot.py at 2018-07-11 02:51:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 393.86 Mbit/s

95th percentile per-packet one-way delay: 1.160 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 222.31 Mbit/s

95th percentile per-packet one-way delay: 1.111 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 201.32 Mbit/s

95th percentile per-packet one-way delay: 1.189 ms

Loss rate: 0.09%

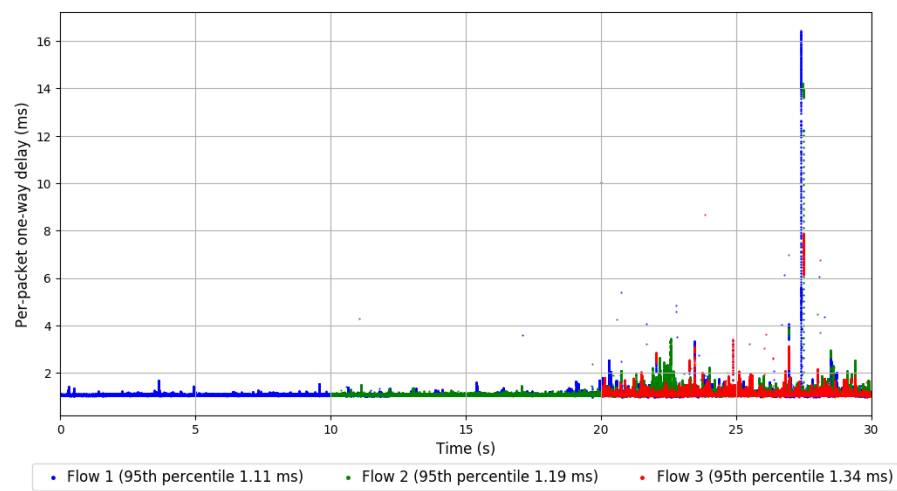
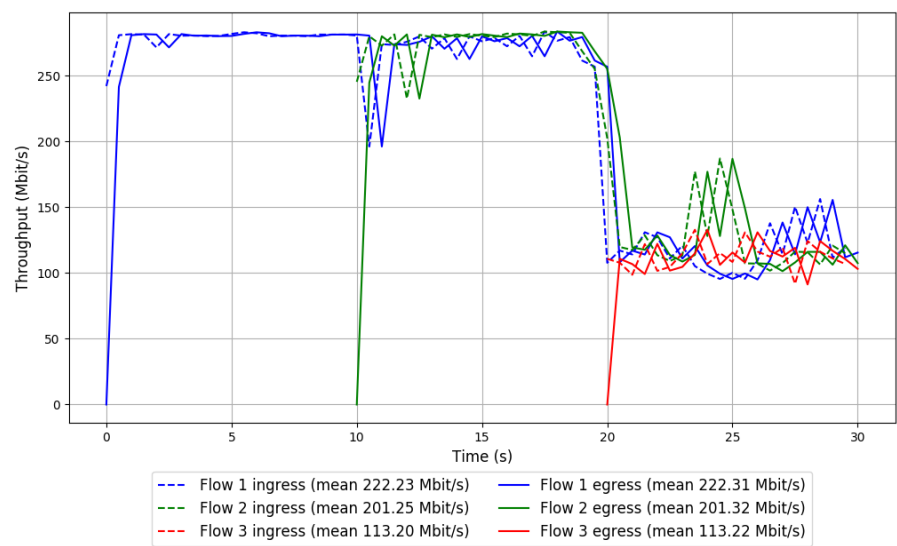
-- Flow 3:

Average throughput: 113.22 Mbit/s

95th percentile per-packet one-way delay: 1.338 ms

Loss rate: 0.19%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-07-10 21:09:54

End at: 2018-07-10 21:10:24

Local clock offset: 0.653 ms

Remote clock offset: 1.626 ms

Below is generated by plot.py at 2018-07-11 02:51:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 389.43 Mbit/s

95th percentile per-packet one-way delay: 1.090 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 221.31 Mbit/s

95th percentile per-packet one-way delay: 1.060 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 193.91 Mbit/s

95th percentile per-packet one-way delay: 1.102 ms

Loss rate: 0.05%

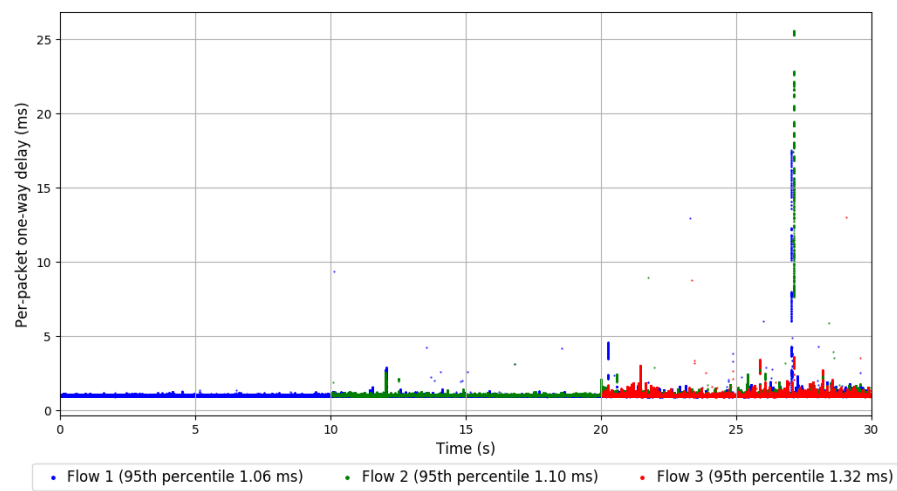
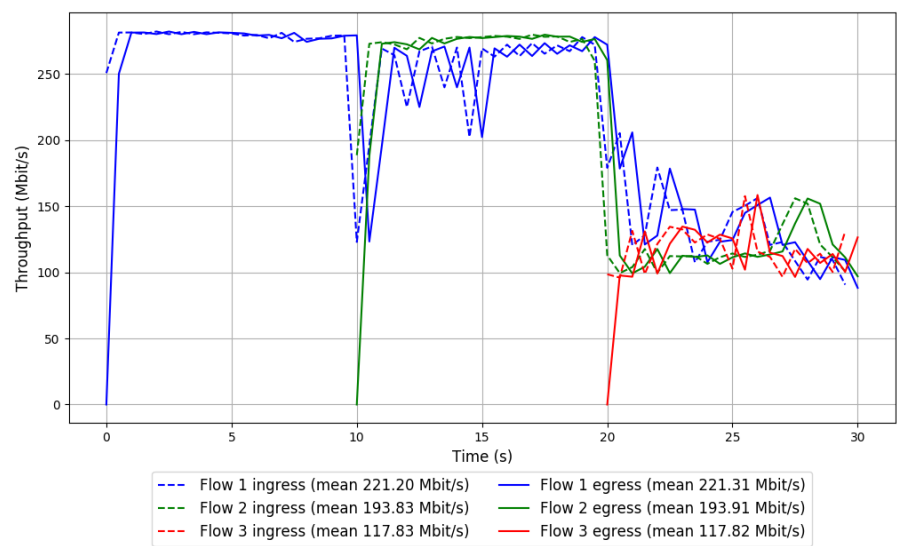
-- Flow 3:

Average throughput: 117.82 Mbit/s

95th percentile per-packet one-way delay: 1.323 ms

Loss rate: 0.20%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-07-10 21:36:54

End at: 2018-07-10 21:37:24

Local clock offset: 0.665 ms

Remote clock offset: 2.124 ms

Below is generated by plot.py at 2018-07-11 02:51:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 375.48 Mbit/s

95th percentile per-packet one-way delay: 1.182 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 208.01 Mbit/s

95th percentile per-packet one-way delay: 1.124 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 192.64 Mbit/s

95th percentile per-packet one-way delay: 1.198 ms

Loss rate: 0.07%

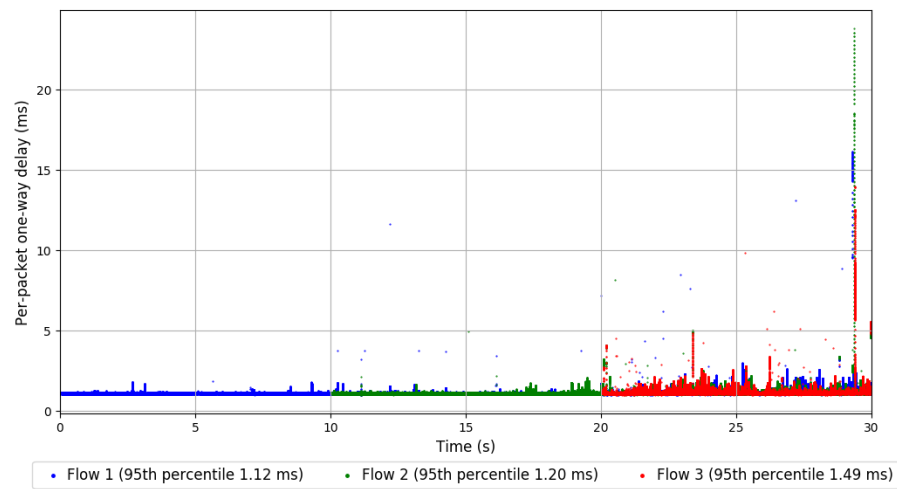
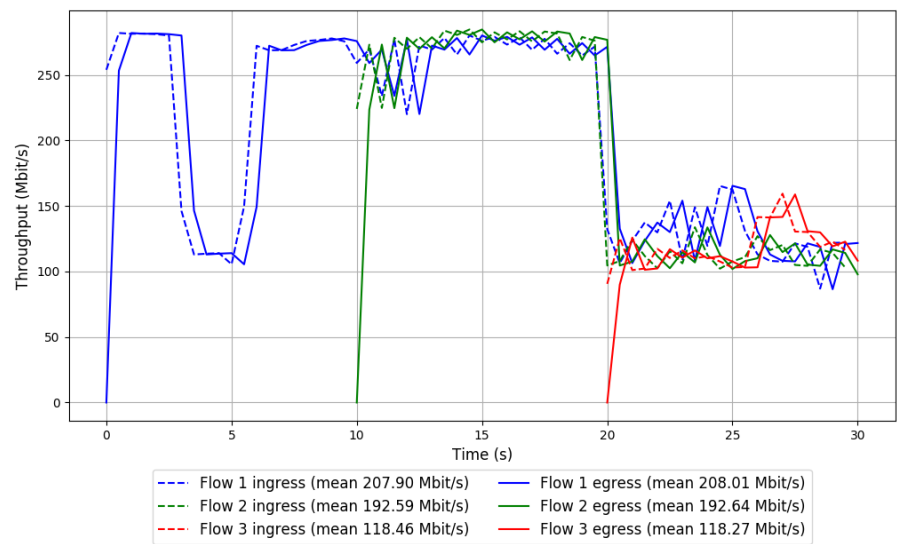
-- Flow 3:

Average throughput: 118.27 Mbit/s

95th percentile per-packet one-way delay: 1.493 ms

Loss rate: 0.36%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-07-10 22:03:53

End at: 2018-07-10 22:04:23

Local clock offset: 0.664 ms

Remote clock offset: 2.289 ms

Below is generated by plot.py at 2018-07-11 02:51:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 388.75 Mbit/s

95th percentile per-packet one-way delay: 1.137 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 216.93 Mbit/s

95th percentile per-packet one-way delay: 1.111 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 197.49 Mbit/s

95th percentile per-packet one-way delay: 1.110 ms

Loss rate: 0.08%

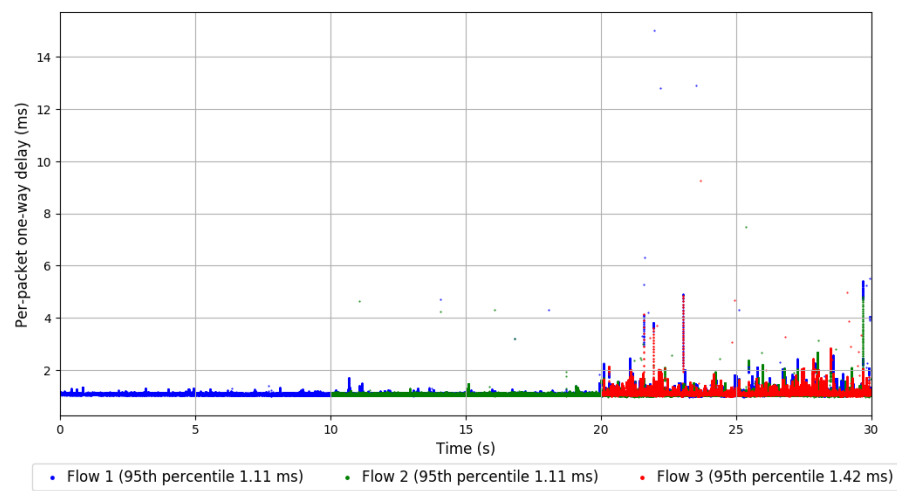
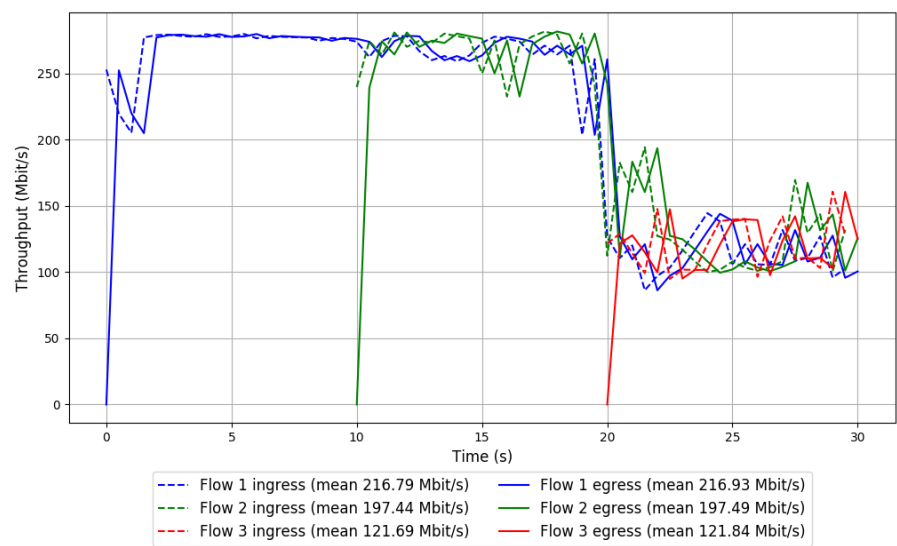
-- Flow 3:

Average throughput: 121.84 Mbit/s

95th percentile per-packet one-way delay: 1.419 ms

Loss rate: 0.16%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-07-10 22:30:50

End at: 2018-07-10 22:31:20

Local clock offset: 0.766 ms

Remote clock offset: 2.289 ms

Below is generated by plot.py at 2018-07-11 02:51:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 382.78 Mbit/s

95th percentile per-packet one-way delay: 0.976 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 215.95 Mbit/s

95th percentile per-packet one-way delay: 0.949 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 195.08 Mbit/s

95th percentile per-packet one-way delay: 0.970 ms

Loss rate: 0.06%

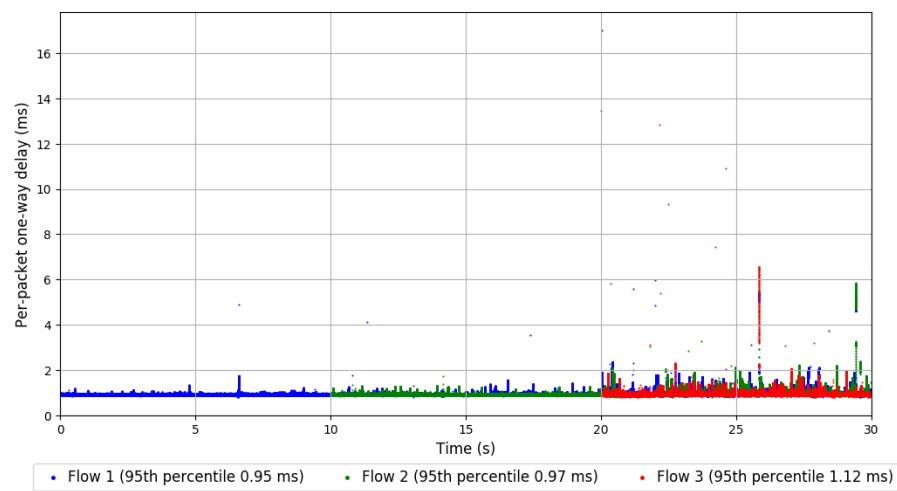
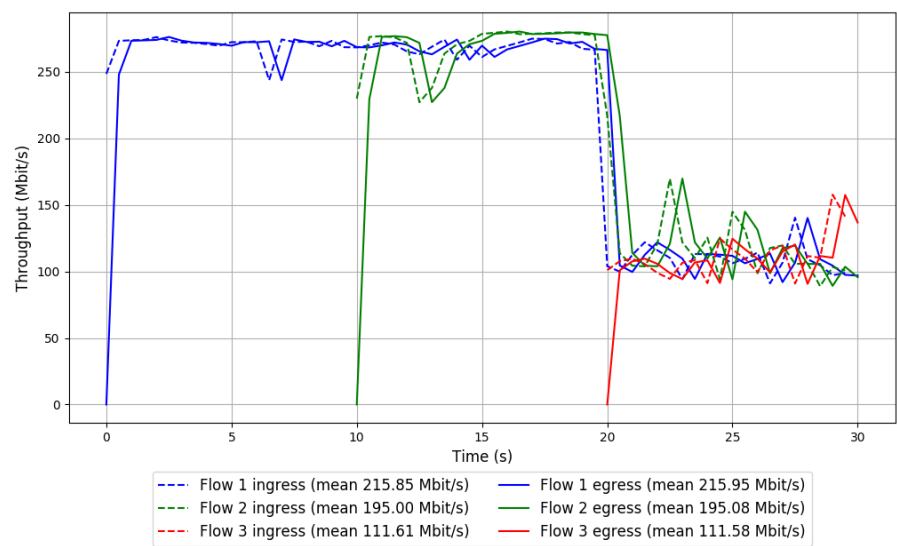
-- Flow 3:

Average throughput: 111.58 Mbit/s

95th percentile per-packet one-way delay: 1.121 ms

Loss rate: 0.22%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-07-10 22:57:50

End at: 2018-07-10 22:58:20

Local clock offset: 0.812 ms

Remote clock offset: 1.977 ms

Below is generated by plot.py at 2018-07-11 02:51:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 380.09 Mbit/s

95th percentile per-packet one-way delay: 1.167 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 211.88 Mbit/s

95th percentile per-packet one-way delay: 1.148 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 192.84 Mbit/s

95th percentile per-packet one-way delay: 1.137 ms

Loss rate: 0.05%

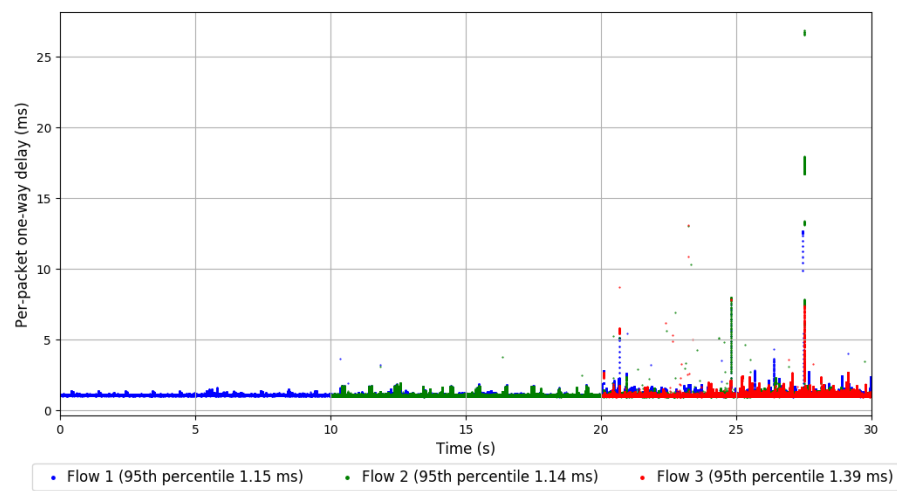
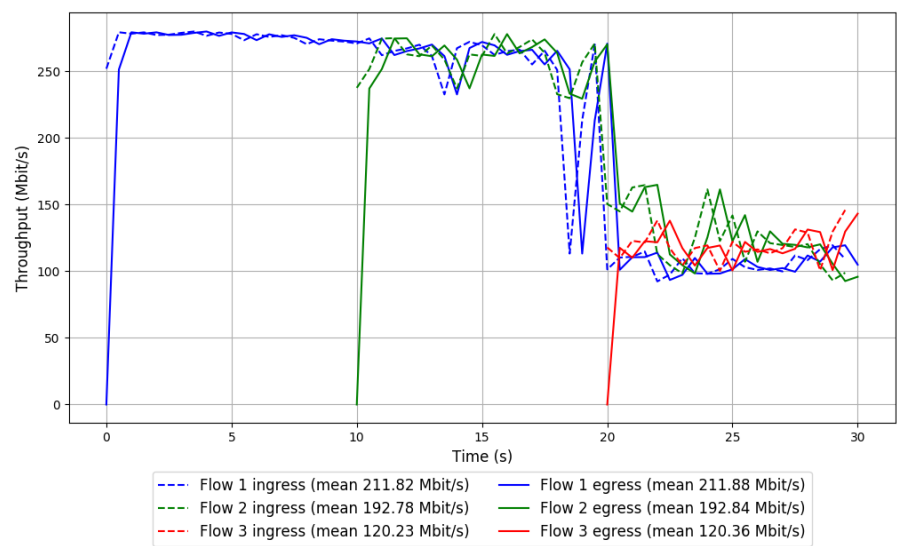
-- Flow 3:

Average throughput: 120.36 Mbit/s

95th percentile per-packet one-way delay: 1.386 ms

Loss rate: 0.11%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-07-10 23:24:36

End at: 2018-07-10 23:25:06

Local clock offset: 0.59 ms

Remote clock offset: 1.74 ms

Below is generated by plot.py at 2018-07-11 02:53:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 390.46 Mbit/s

95th percentile per-packet one-way delay: 1.159 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 225.56 Mbit/s

95th percentile per-packet one-way delay: 1.148 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 186.18 Mbit/s

95th percentile per-packet one-way delay: 1.147 ms

Loss rate: 0.06%

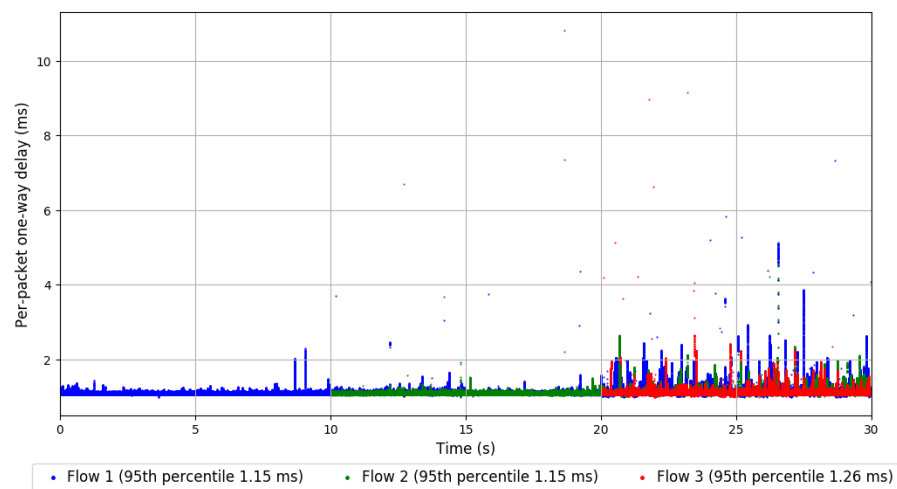
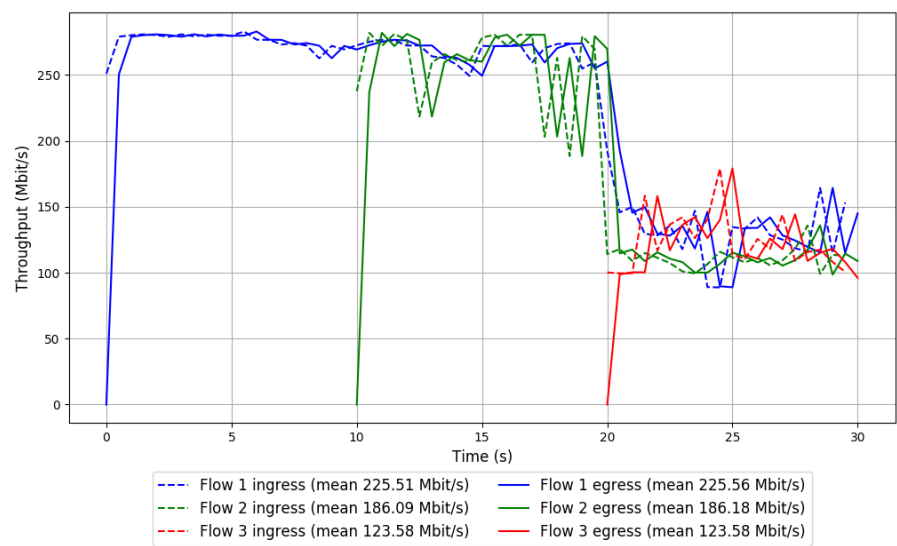
-- Flow 3:

Average throughput: 123.58 Mbit/s

95th percentile per-packet one-way delay: 1.256 ms

Loss rate: 0.19%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-07-10 23:51:29

End at: 2018-07-10 23:51:59

Local clock offset: 0.619 ms

Remote clock offset: 1.732 ms

Below is generated by plot.py at 2018-07-11 02:59:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 387.45 Mbit/s

95th percentile per-packet one-way delay: 1.064 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 220.61 Mbit/s

95th percentile per-packet one-way delay: 1.028 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 193.26 Mbit/s

95th percentile per-packet one-way delay: 1.077 ms

Loss rate: 0.06%

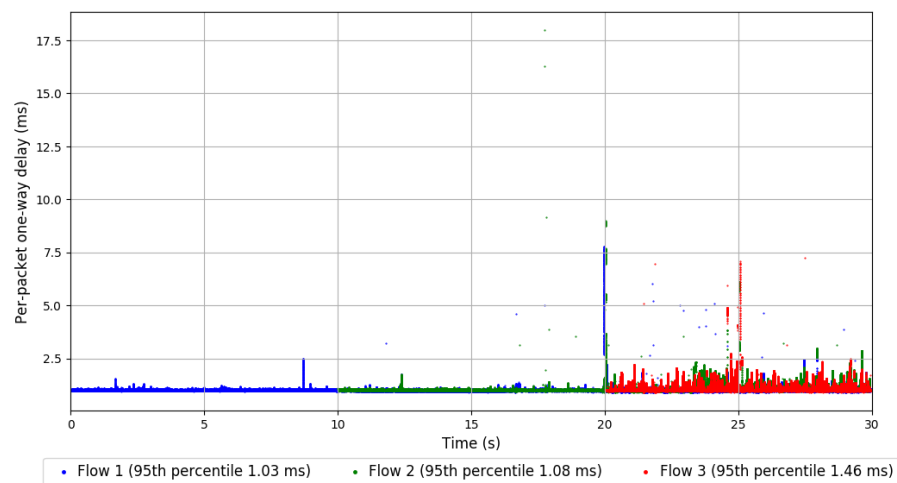
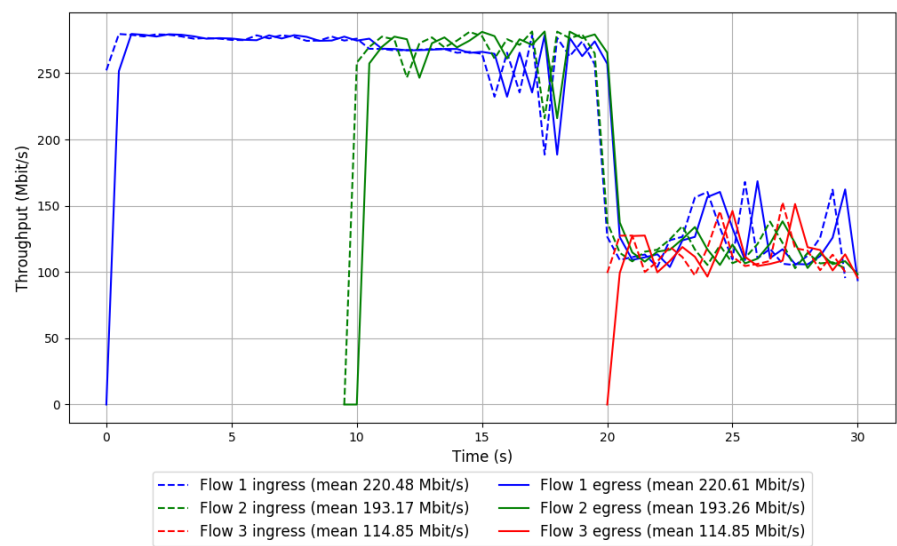
-- Flow 3:

Average throughput: 114.85 Mbit/s

95th percentile per-packet one-way delay: 1.461 ms

Loss rate: 0.20%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-07-11 00:18:24

End at: 2018-07-11 00:18:54

Local clock offset: 0.701 ms

Remote clock offset: 1.595 ms

Below is generated by plot.py at 2018-07-11 02:59:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 372.98 Mbit/s

95th percentile per-packet one-way delay: 1.048 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 213.65 Mbit/s

95th percentile per-packet one-way delay: 1.021 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 179.62 Mbit/s

95th percentile per-packet one-way delay: 1.052 ms

Loss rate: 0.07%

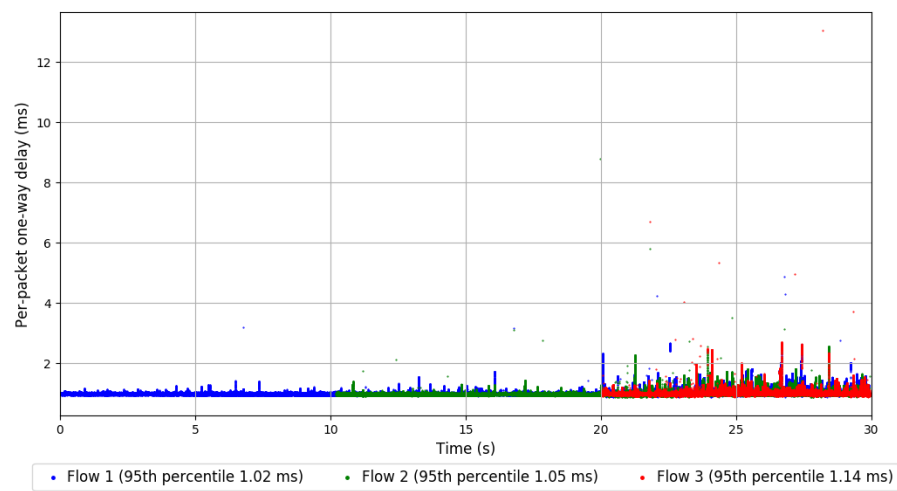
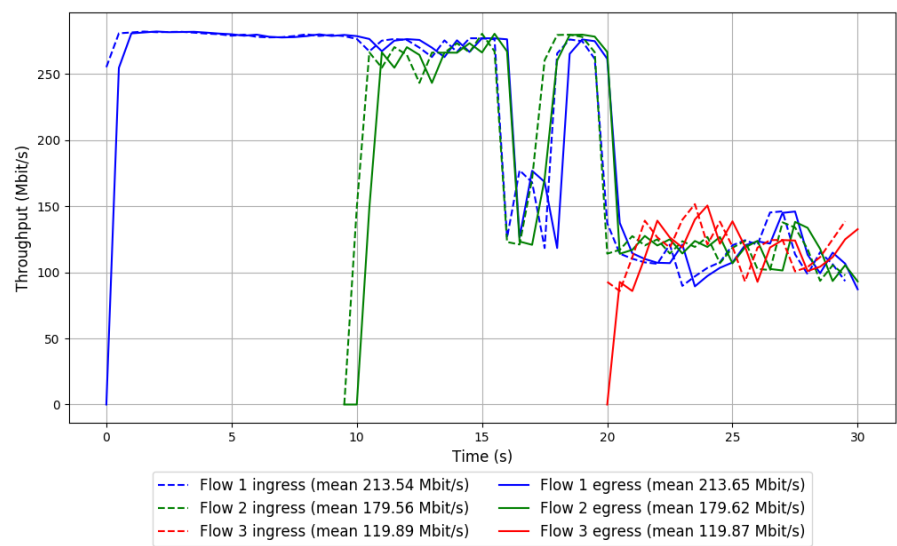
-- Flow 3:

Average throughput: 119.87 Mbit/s

95th percentile per-packet one-way delay: 1.136 ms

Loss rate: 0.26%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-07-10 20:41:29

End at: 2018-07-10 20:41:59

Local clock offset: 0.538 ms

Remote clock offset: 0.891 ms

Below is generated by plot.py at 2018-07-11 02:59:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 569.62 Mbit/s

95th percentile per-packet one-way delay: 1.709 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 272.98 Mbit/s

95th percentile per-packet one-way delay: 1.659 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 262.97 Mbit/s

95th percentile per-packet one-way delay: 1.671 ms

Loss rate: 0.12%

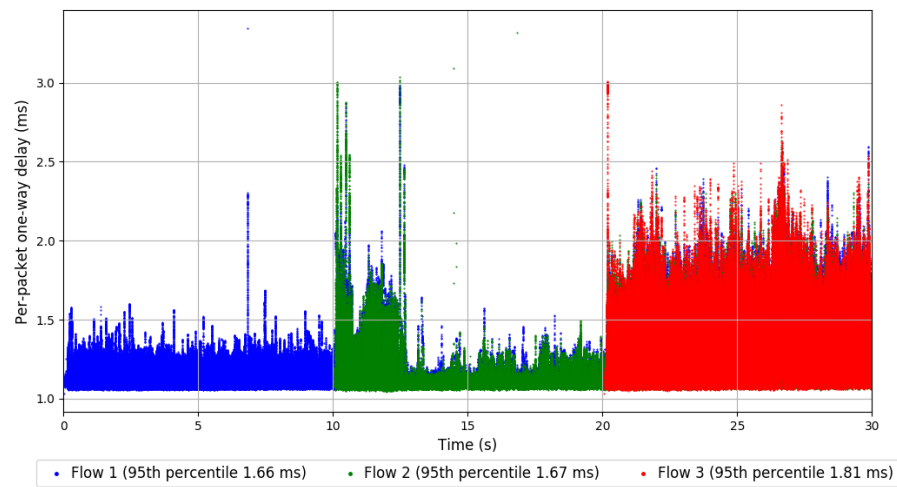
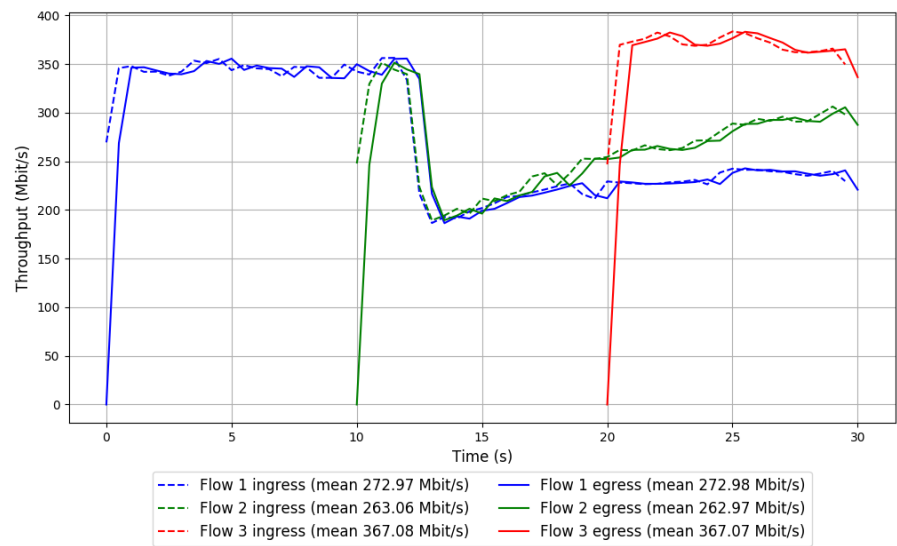
-- Flow 3:

Average throughput: 367.07 Mbit/s

95th percentile per-packet one-way delay: 1.808 ms

Loss rate: 0.20%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-07-10 21:08:21

End at: 2018-07-10 21:08:51

Local clock offset: 0.653 ms

Remote clock offset: 1.586 ms

Below is generated by plot.py at 2018-07-11 02:59:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 464.49 Mbit/s

95th percentile per-packet one-way delay: 1.546 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 106.37 Mbit/s

95th percentile per-packet one-way delay: 1.278 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 351.18 Mbit/s

95th percentile per-packet one-way delay: 1.530 ms

Loss rate: 0.09%

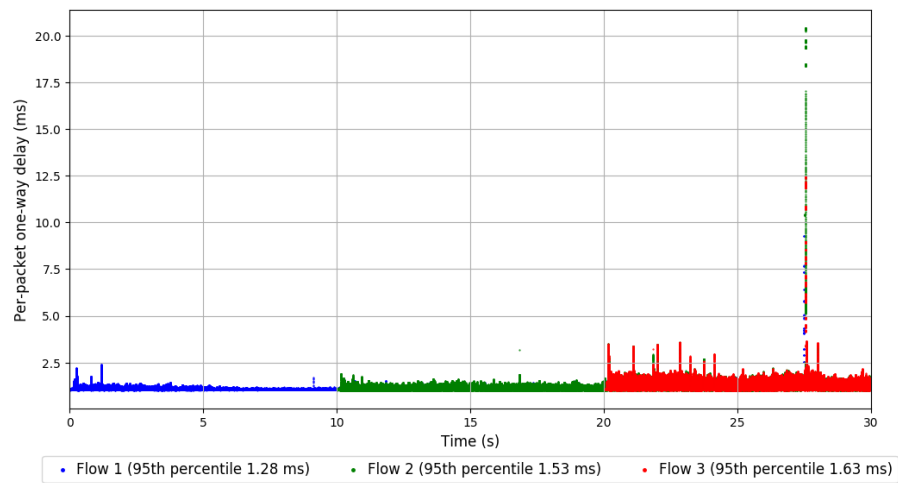
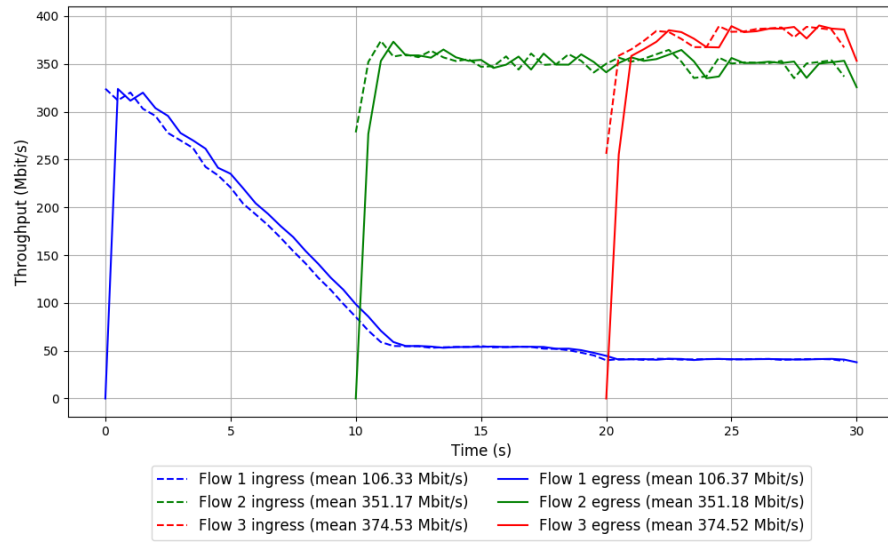
-- Flow 3:

Average throughput: 374.52 Mbit/s

95th percentile per-packet one-way delay: 1.631 ms

Loss rate: 0.19%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-07-10 21:35:13

End at: 2018-07-10 21:35:43

Local clock offset: 0.568 ms

Remote clock offset: 2.088 ms

Below is generated by plot.py at 2018-07-11 02:59:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 685.53 Mbit/s

95th percentile per-packet one-way delay: 3.380 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 377.84 Mbit/s

95th percentile per-packet one-way delay: 3.265 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 311.08 Mbit/s

95th percentile per-packet one-way delay: 3.389 ms

Loss rate: 0.08%

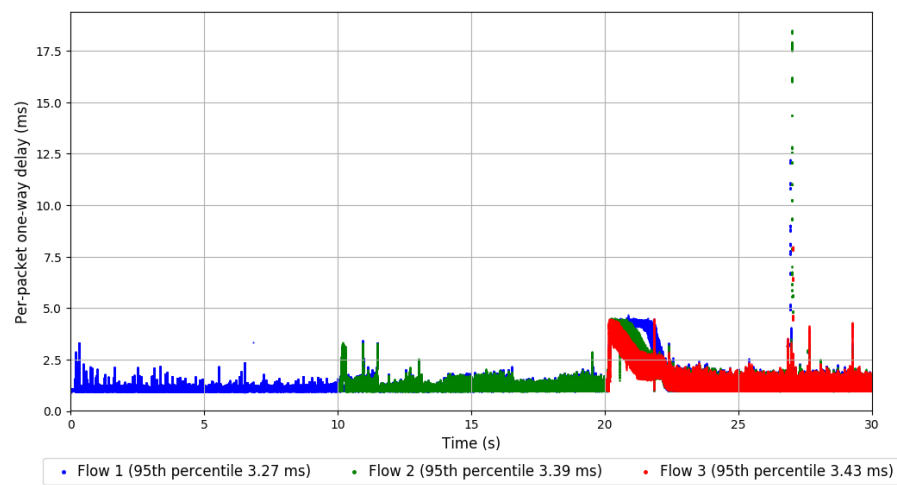
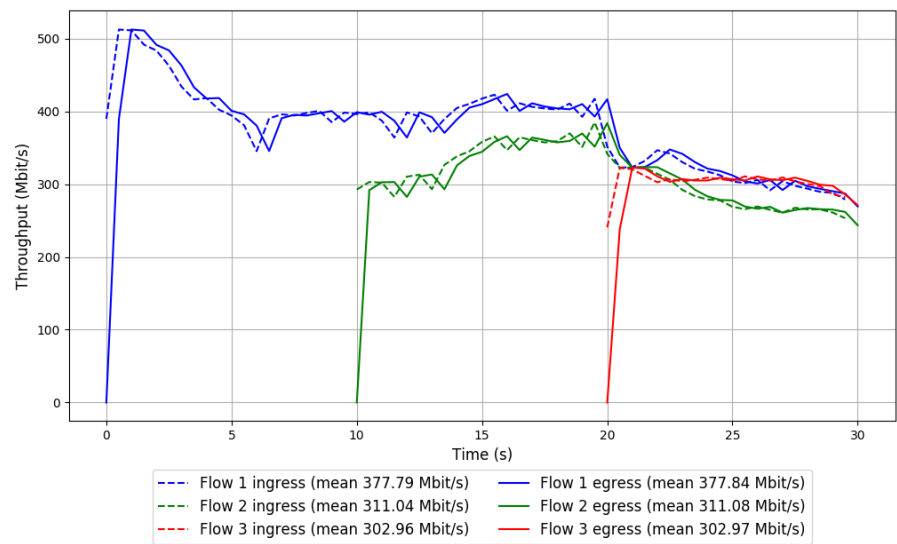
-- Flow 3:

Average throughput: 302.97 Mbit/s

95th percentile per-packet one-way delay: 3.427 ms

Loss rate: 0.19%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-07-10 22:02:15

End at: 2018-07-10 22:02:45

Local clock offset: 0.642 ms

Remote clock offset: 2.323 ms

Below is generated by plot.py at 2018-07-11 02:59:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 597.29 Mbit/s

95th percentile per-packet one-way delay: 1.769 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 272.30 Mbit/s

95th percentile per-packet one-way delay: 1.669 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 342.07 Mbit/s

95th percentile per-packet one-way delay: 1.793 ms

Loss rate: 0.09%

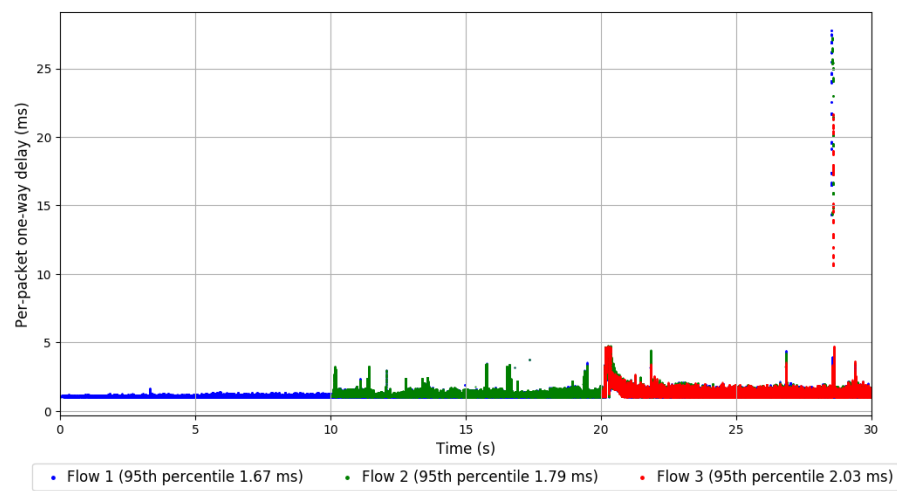
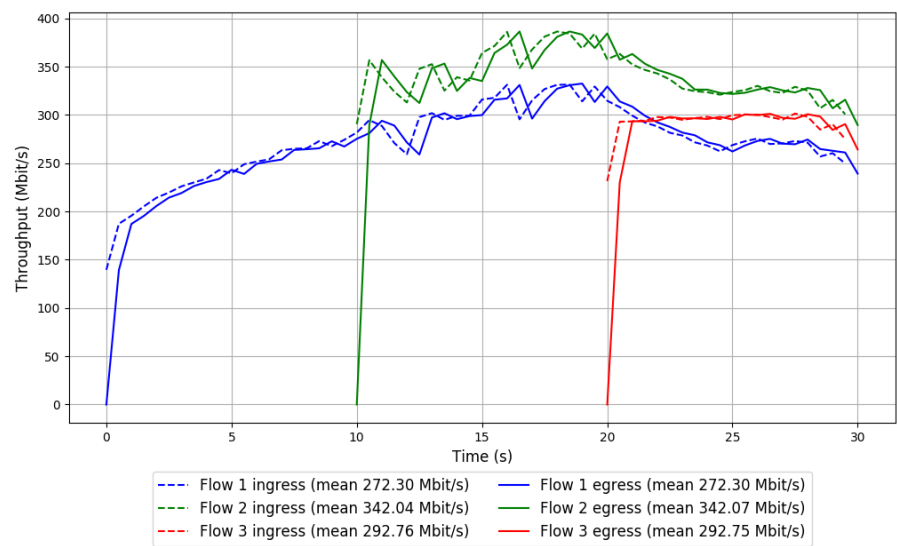
-- Flow 3:

Average throughput: 292.75 Mbit/s

95th percentile per-packet one-way delay: 2.030 ms

Loss rate: 0.20%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-07-10 22:29:14

End at: 2018-07-10 22:29:44

Local clock offset: 0.757 ms

Remote clock offset: 2.229 ms

Below is generated by plot.py at 2018-07-11 02:59:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 540.22 Mbit/s

95th percentile per-packet one-way delay: 1.514 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 256.07 Mbit/s

95th percentile per-packet one-way delay: 1.502 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 333.21 Mbit/s

95th percentile per-packet one-way delay: 1.494 ms

Loss rate: 0.09%

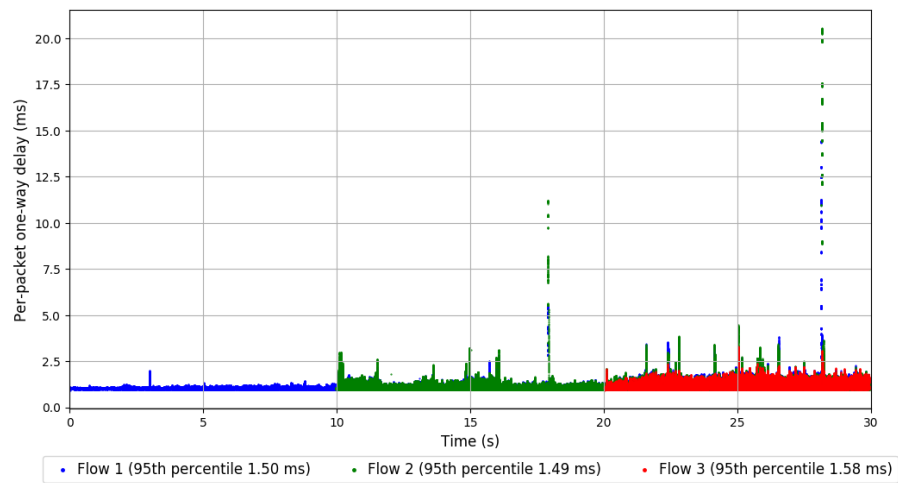
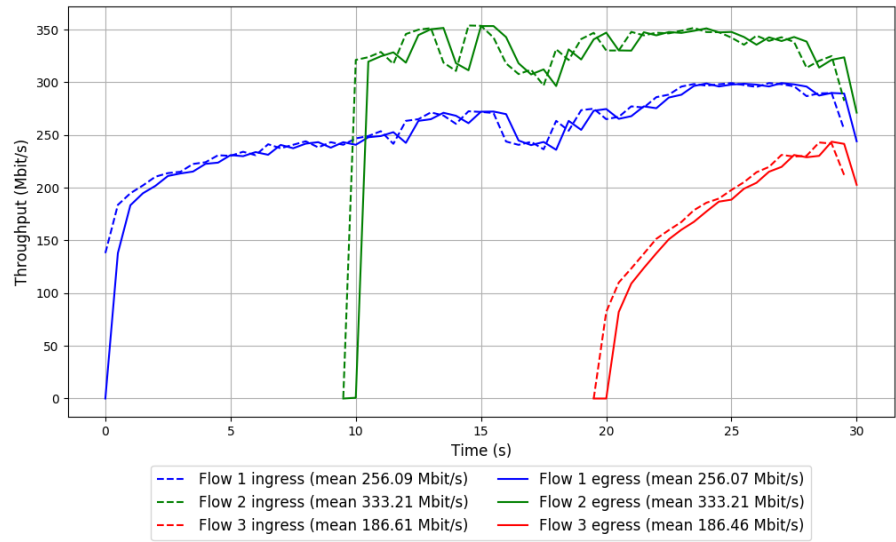
-- Flow 3:

Average throughput: 186.46 Mbit/s

95th percentile per-packet one-way delay: 1.581 ms

Loss rate: 0.27%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-07-10 22:56:13

End at: 2018-07-10 22:56:43

Local clock offset: 0.821 ms

Remote clock offset: 2.018 ms

Below is generated by plot.py at 2018-07-11 03:00:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 571.56 Mbit/s

95th percentile per-packet one-way delay: 1.715 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 270.15 Mbit/s

95th percentile per-packet one-way delay: 1.659 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 285.15 Mbit/s

95th percentile per-packet one-way delay: 1.706 ms

Loss rate: 0.08%

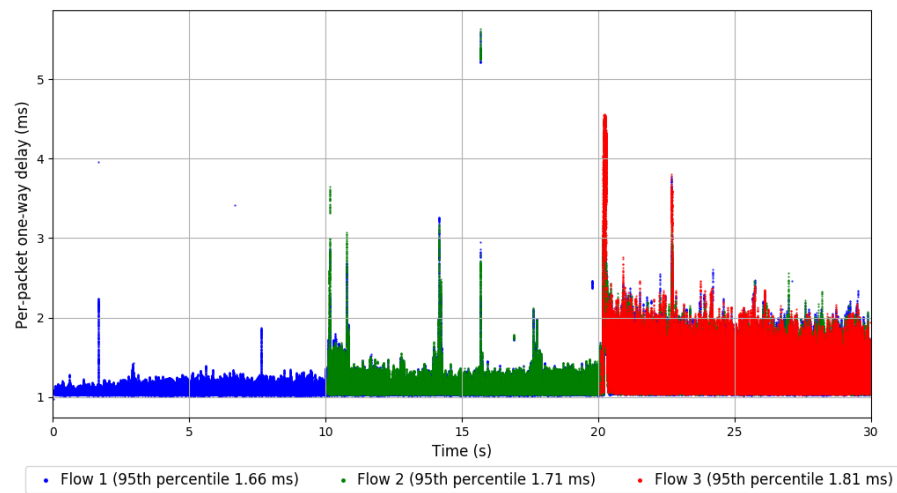
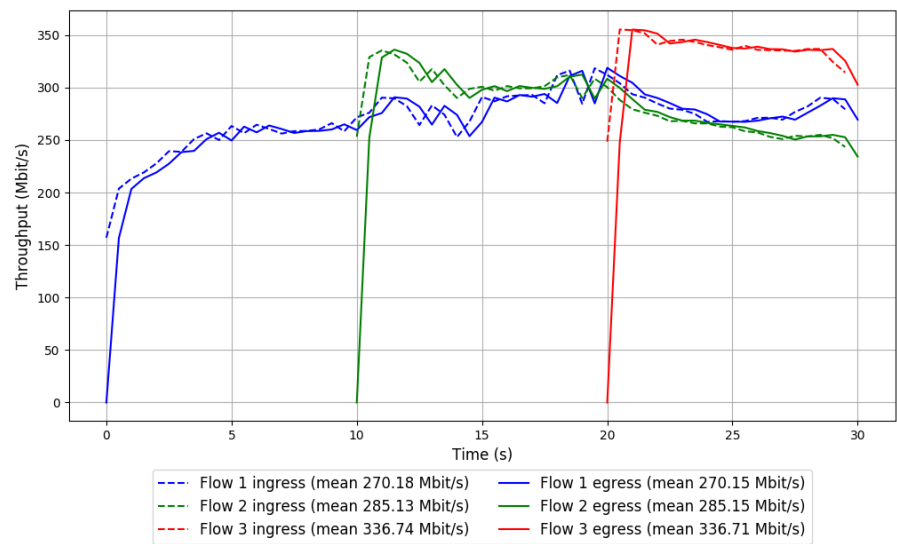
-- Flow 3:

Average throughput: 336.71 Mbit/s

95th percentile per-packet one-way delay: 1.808 ms

Loss rate: 0.18%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

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

End at: 2018-07-10 23:23:37

Local clock offset: 0.576 ms

Remote clock offset: 1.764 ms

Below is generated by plot.py at 2018-07-11 03:00:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 334.90 Mbit/s

95th percentile per-packet one-way delay: 1.333 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 117.74 Mbit/s

95th percentile per-packet one-way delay: 1.234 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 136.69 Mbit/s

95th percentile per-packet one-way delay: 1.242 ms

Loss rate: 0.05%

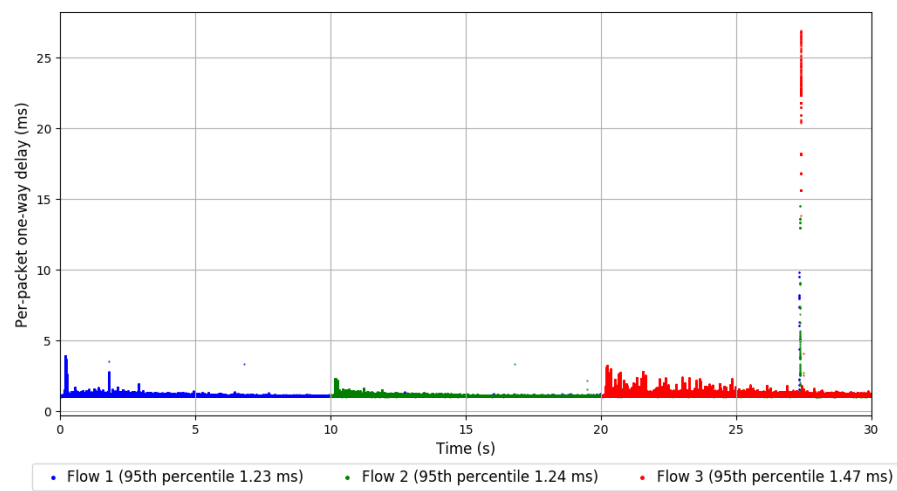
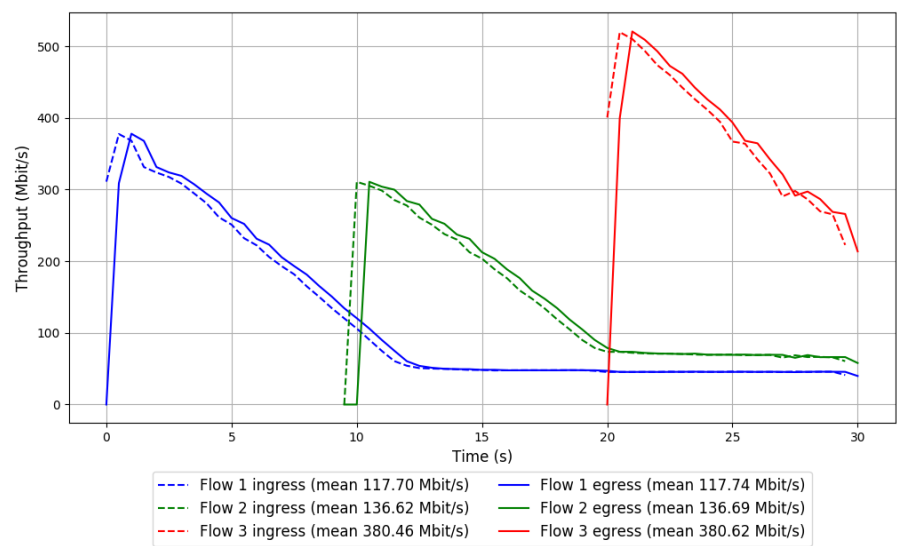
-- Flow 3:

Average throughput: 380.62 Mbit/s

95th percentile per-packet one-way delay: 1.474 ms

Loss rate: 0.13%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-07-10 23:49:52

End at: 2018-07-10 23:50:22

Local clock offset: 0.512 ms

Remote clock offset: 1.749 ms

Below is generated by plot.py at 2018-07-11 03:03:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 559.08 Mbit/s

95th percentile per-packet one-way delay: 1.644 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 270.91 Mbit/s

95th percentile per-packet one-way delay: 1.525 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 279.75 Mbit/s

95th percentile per-packet one-way delay: 1.660 ms

Loss rate: 0.10%

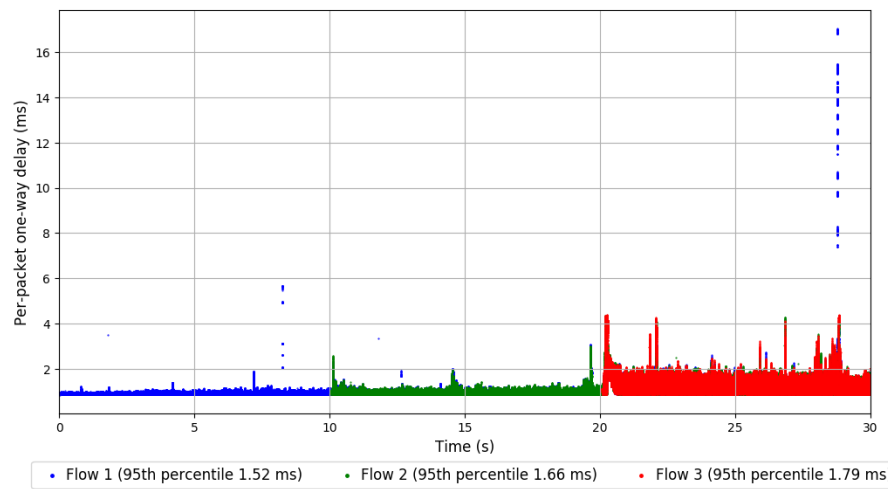
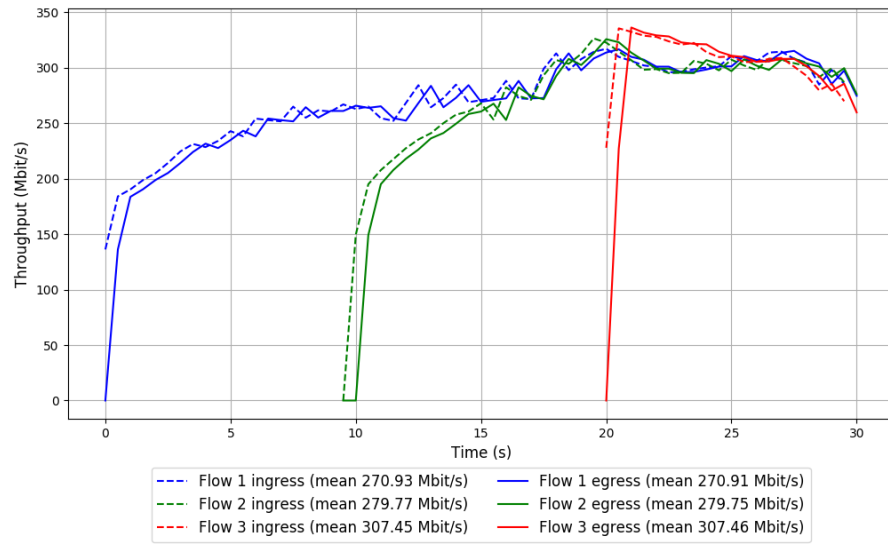
-- Flow 3:

Average throughput: 307.46 Mbit/s

95th percentile per-packet one-way delay: 1.795 ms

Loss rate: 0.18%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-07-11 00:16:48

End at: 2018-07-11 00:17:18

Local clock offset: 0.773 ms

Remote clock offset: 1.624 ms

Below is generated by plot.py at 2018-07-11 03:03:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 534.73 Mbit/s

95th percentile per-packet one-way delay: 1.719 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 180.49 Mbit/s

95th percentile per-packet one-way delay: 1.594 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 348.00 Mbit/s

95th percentile per-packet one-way delay: 1.687 ms

Loss rate: 0.10%

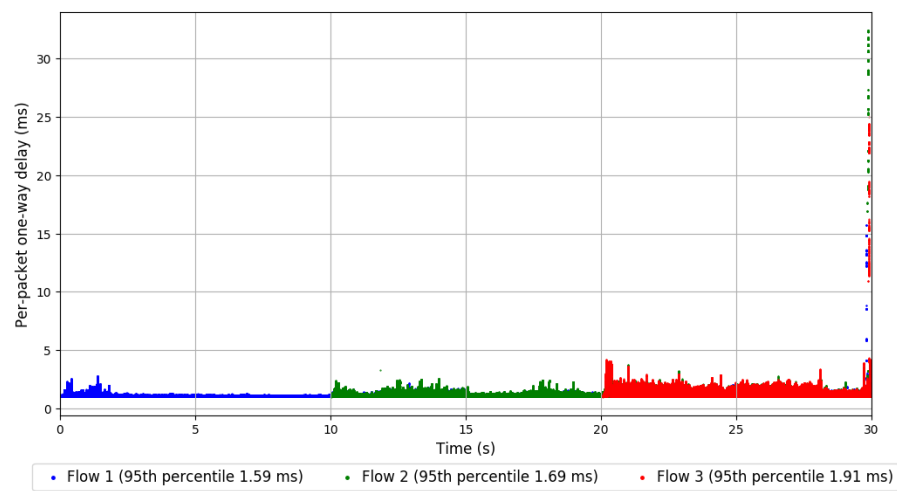
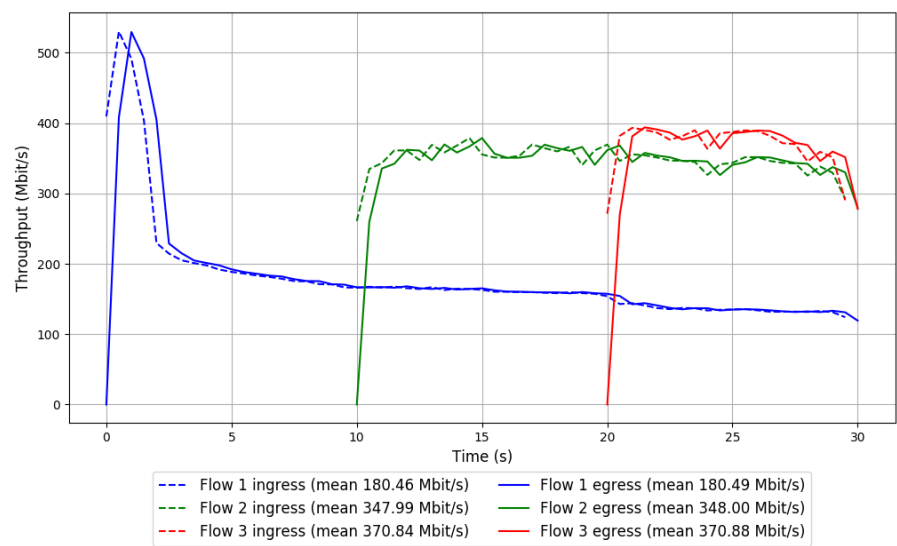
-- Flow 3:

Average throughput: 370.88 Mbit/s

95th percentile per-packet one-way delay: 1.906 ms

Loss rate: 0.18%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-07-11 00:43:46

End at: 2018-07-11 00:44:16

Local clock offset: 0.673 ms

Remote clock offset: 1.325 ms

Below is generated by plot.py at 2018-07-11 03:04:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 601.26 Mbit/s

95th percentile per-packet one-way delay: 3.456 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 249.04 Mbit/s

95th percentile per-packet one-way delay: 2.091 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 305.64 Mbit/s

95th percentile per-packet one-way delay: 2.296 ms

Loss rate: 0.08%

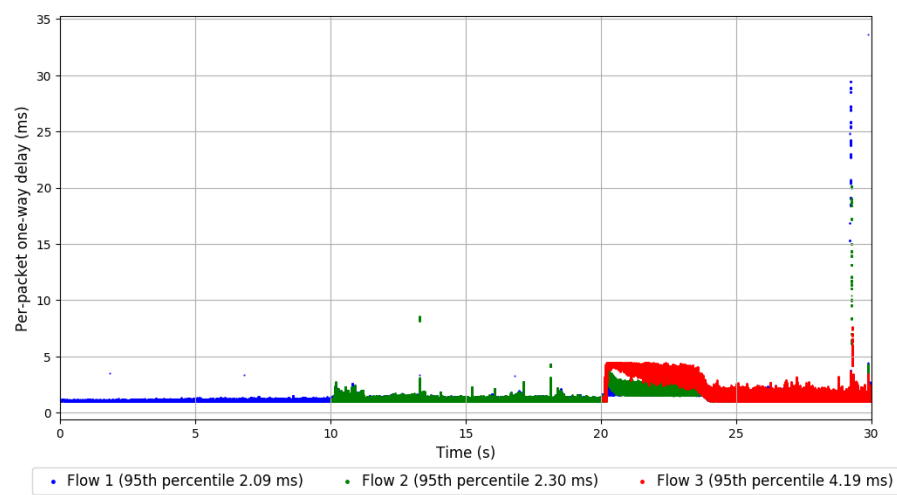
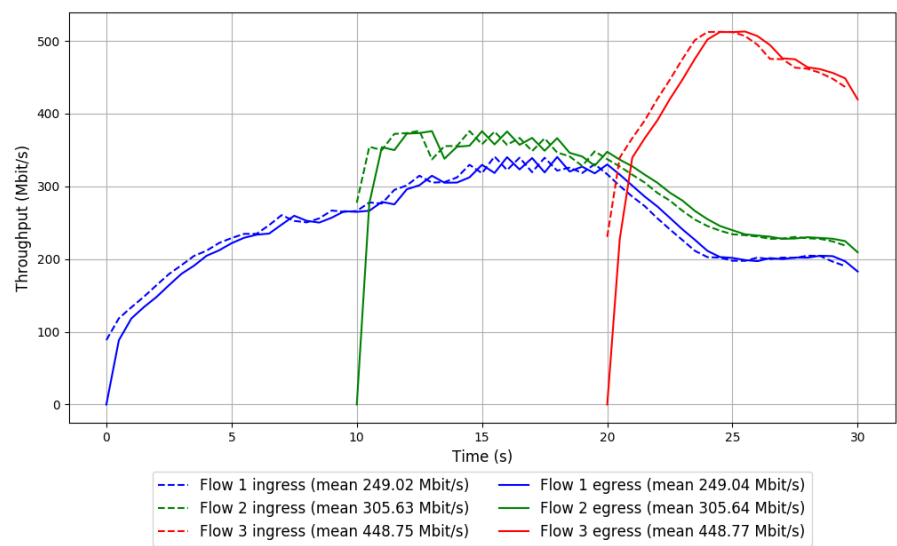
-- Flow 3:

Average throughput: 448.77 Mbit/s

95th percentile per-packet one-way delay: 4.186 ms

Loss rate: 0.20%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-07-10 20:30:11

End at: 2018-07-10 20:30:41

Local clock offset: 0.565 ms

Remote clock offset: 0.506 ms

Below is generated by plot.py at 2018-07-11 03:04:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 357.79 Mbit/s

95th percentile per-packet one-way delay: 3.391 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 212.81 Mbit/s

95th percentile per-packet one-way delay: 3.824 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 149.12 Mbit/s

95th percentile per-packet one-way delay: 2.309 ms

Loss rate: 0.05%

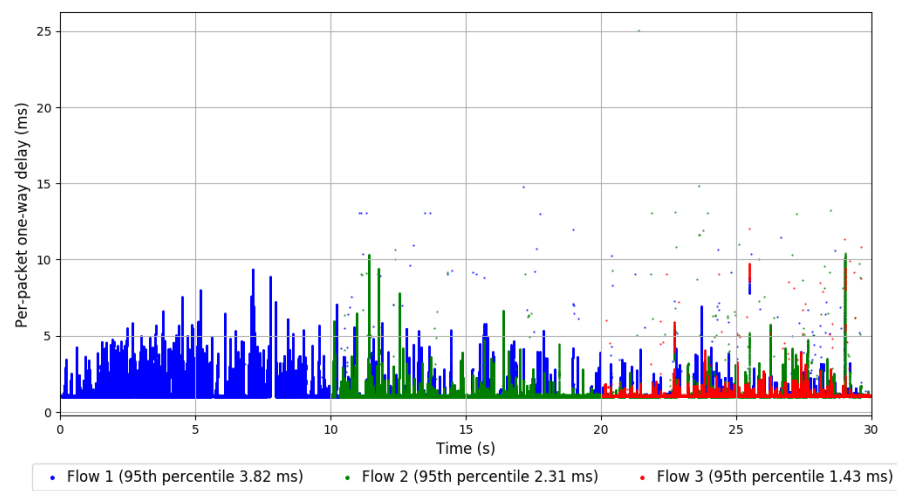
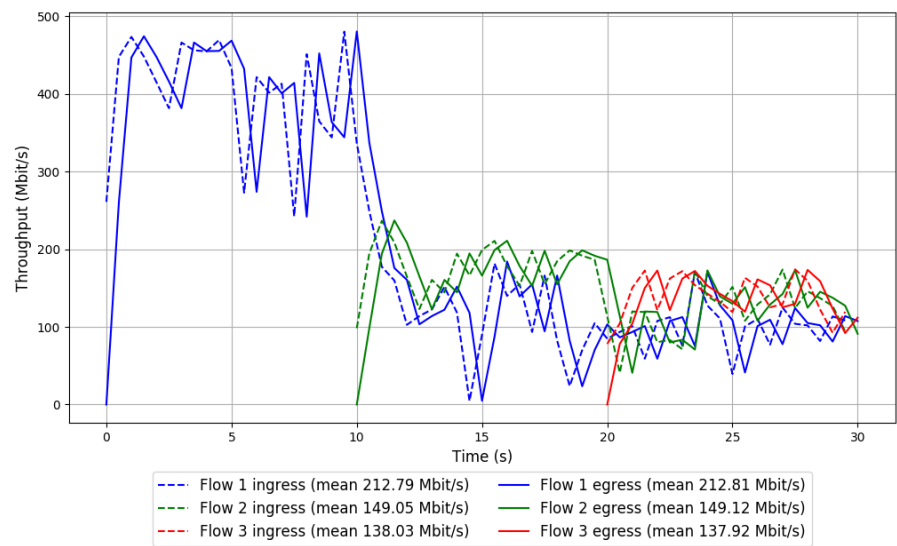
-- Flow 3:

Average throughput: 137.92 Mbit/s

95th percentile per-packet one-way delay: 1.431 ms

Loss rate: 0.28%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-07-10 20:57:11

End at: 2018-07-10 20:57:41

Local clock offset: 0.621 ms

Remote clock offset: 1.315 ms

Below is generated by plot.py at 2018-07-11 03:04:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 337.90 Mbit/s

95th percentile per-packet one-way delay: 6.617 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 214.27 Mbit/s

95th percentile per-packet one-way delay: 7.624 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 133.92 Mbit/s

95th percentile per-packet one-way delay: 2.996 ms

Loss rate: 0.05%

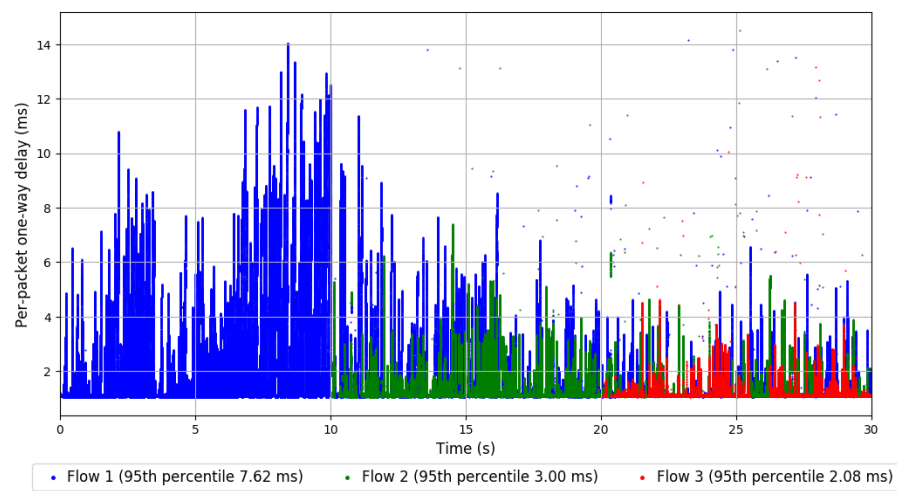
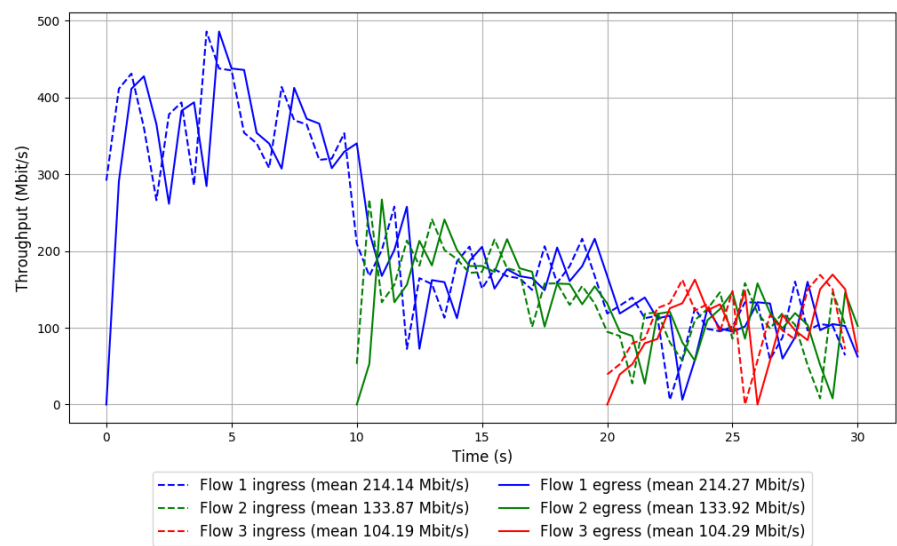
-- Flow 3:

Average throughput: 104.29 Mbit/s

95th percentile per-packet one-way delay: 2.079 ms

Loss rate: 0.15%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-07-10 21:23:59

End at: 2018-07-10 21:24:29

Local clock offset: 0.676 ms

Remote clock offset: 1.853 ms

Below is generated by plot.py at 2018-07-11 03:04:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 272.57 Mbit/s

95th percentile per-packet one-way delay: 3.877 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 151.78 Mbit/s

95th percentile per-packet one-way delay: 5.076 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 148.20 Mbit/s

95th percentile per-packet one-way delay: 1.898 ms

Loss rate: 0.22%

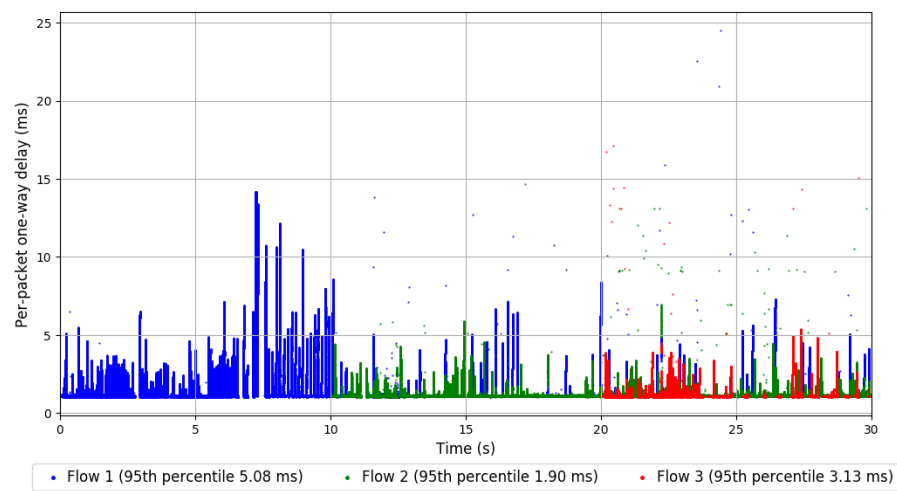
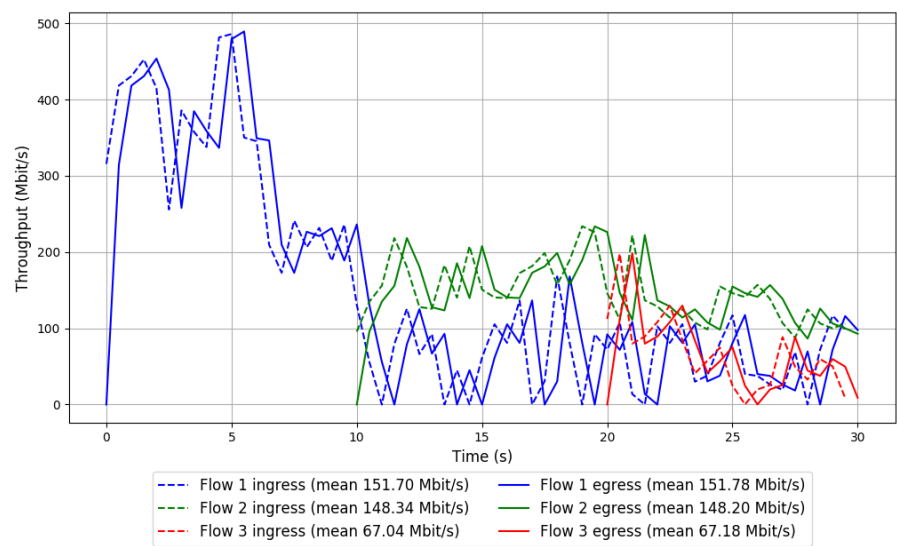
-- Flow 3:

Average throughput: 67.18 Mbit/s

95th percentile per-packet one-way delay: 3.128 ms

Loss rate: 0.00%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-07-10 21:51:05

End at: 2018-07-10 21:51:35

Local clock offset: 0.594 ms

Remote clock offset: 2.292 ms

Below is generated by plot.py at 2018-07-11 03:04:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 298.29 Mbit/s

95th percentile per-packet one-way delay: 5.164 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 180.01 Mbit/s

95th percentile per-packet one-way delay: 4.950 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 129.01 Mbit/s

95th percentile per-packet one-way delay: 6.592 ms

Loss rate: 0.00%

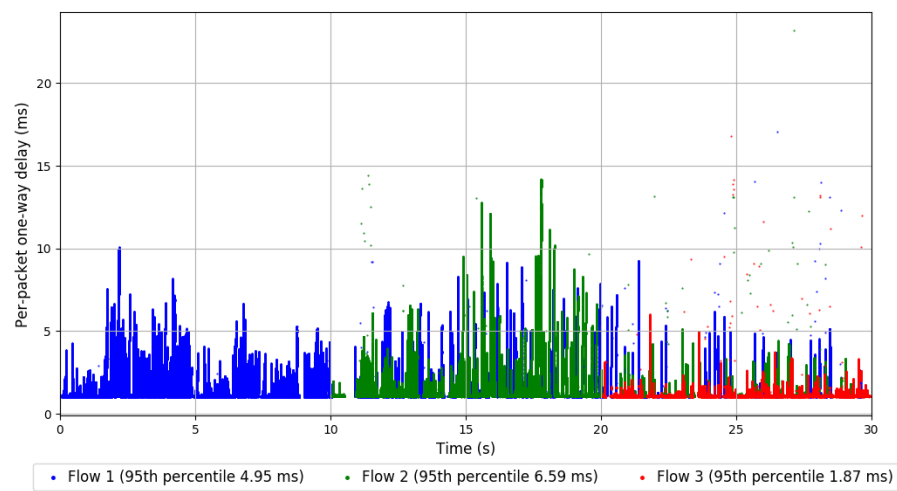
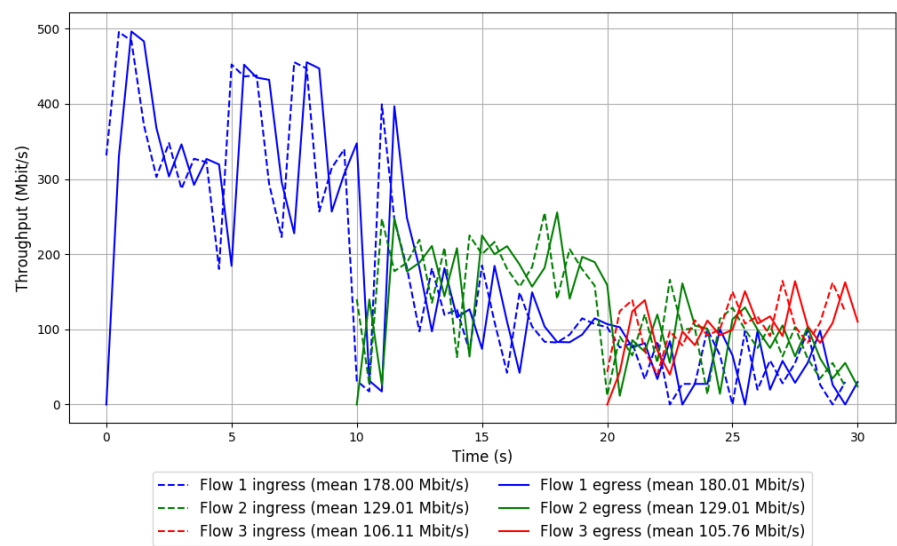
-- Flow 3:

Average throughput: 105.76 Mbit/s

95th percentile per-packet one-way delay: 1.869 ms

Loss rate: 0.64%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-07-10 22:17:59

End at: 2018-07-10 22:18:29

Local clock offset: 0.762 ms

Remote clock offset: 2.215 ms

Below is generated by plot.py at 2018-07-11 03:04:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 319.80 Mbit/s

95th percentile per-packet one-way delay: 4.662 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 212.30 Mbit/s

95th percentile per-packet one-way delay: 5.732 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 92.90 Mbit/s

95th percentile per-packet one-way delay: 2.639 ms

Loss rate: 0.58%

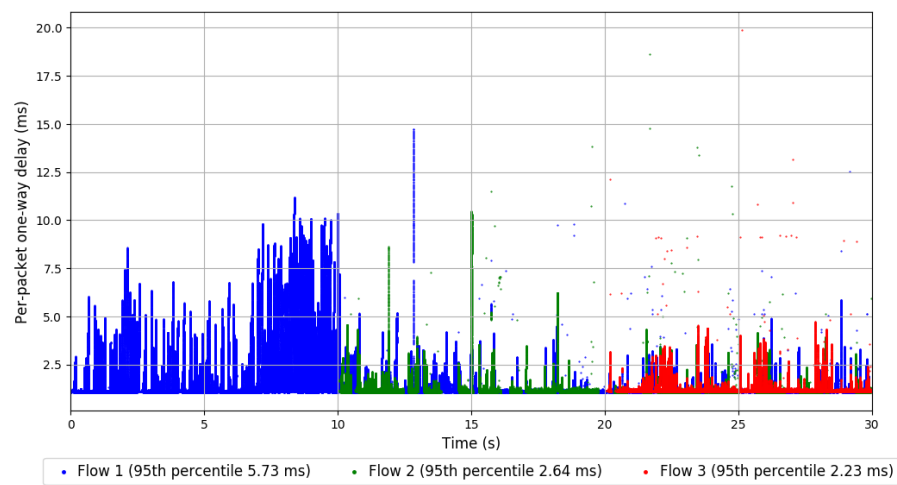
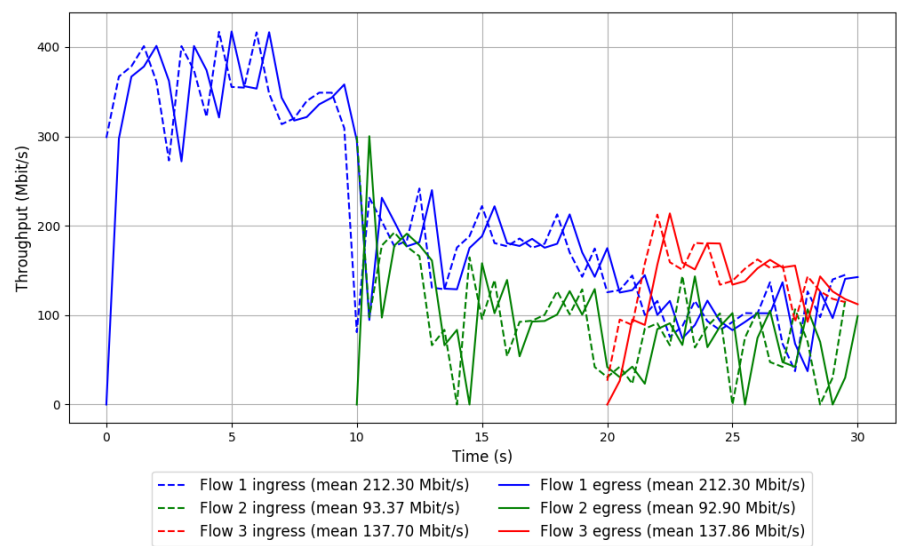
-- Flow 3:

Average throughput: 137.86 Mbit/s

95th percentile per-packet one-way delay: 2.230 ms

Loss rate: 0.11%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-07-10 22:45:00

End at: 2018-07-10 22:45:30

Local clock offset: 0.803 ms

Remote clock offset: 2.113 ms

Below is generated by plot.py at 2018-07-11 03:06:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 354.76 Mbit/s

95th percentile per-packet one-way delay: 3.849 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 209.34 Mbit/s

95th percentile per-packet one-way delay: 4.801 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 158.95 Mbit/s

95th percentile per-packet one-way delay: 2.359 ms

Loss rate: 0.06%

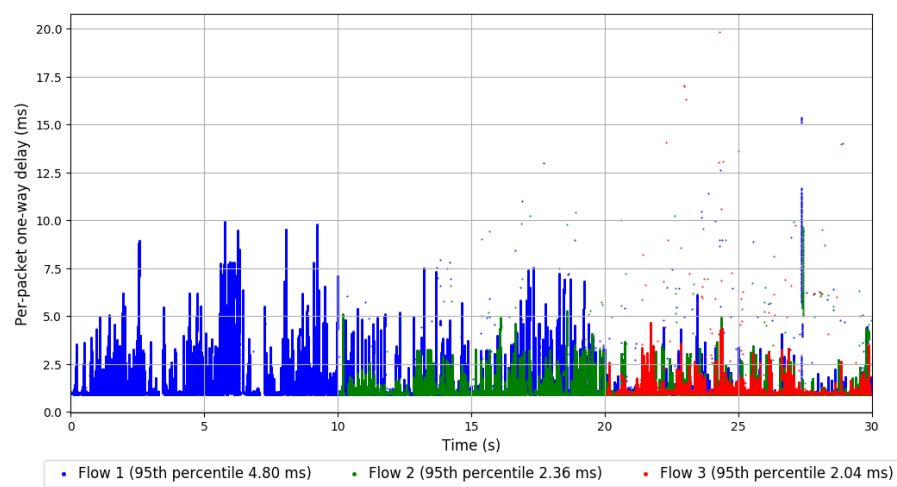
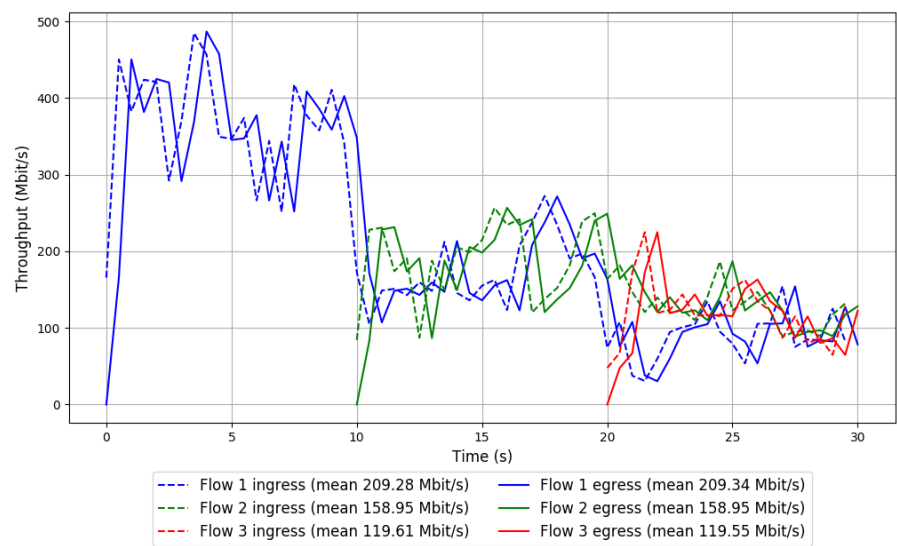
-- Flow 3:

Average throughput: 119.55 Mbit/s

95th percentile per-packet one-way delay: 2.038 ms

Loss rate: 0.23%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-07-10 23:11:58

End at: 2018-07-10 23:12:28

Local clock offset: 0.682 ms

Remote clock offset: 1.815 ms

Below is generated by plot.py at 2018-07-11 03:06:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 323.04 Mbit/s

95th percentile per-packet one-way delay: 6.390 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 186.11 Mbit/s

95th percentile per-packet one-way delay: 7.643 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 149.26 Mbit/s

95th percentile per-packet one-way delay: 1.701 ms

Loss rate: 0.06%

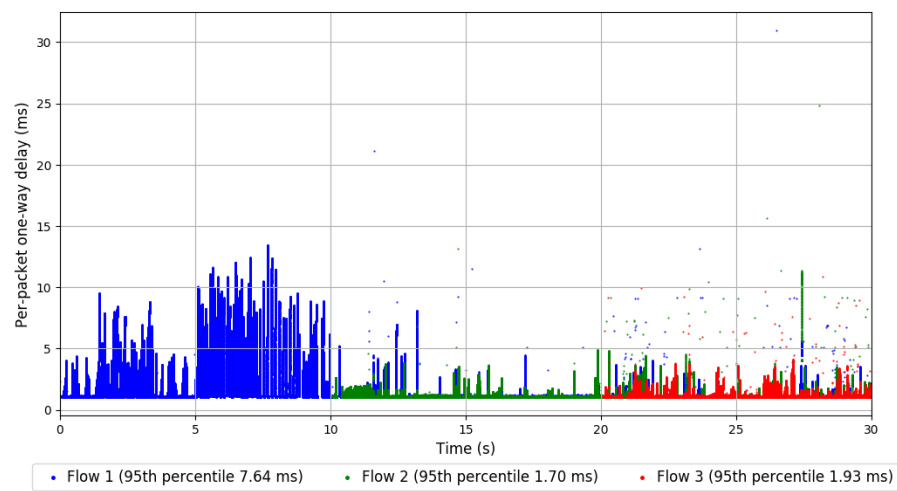
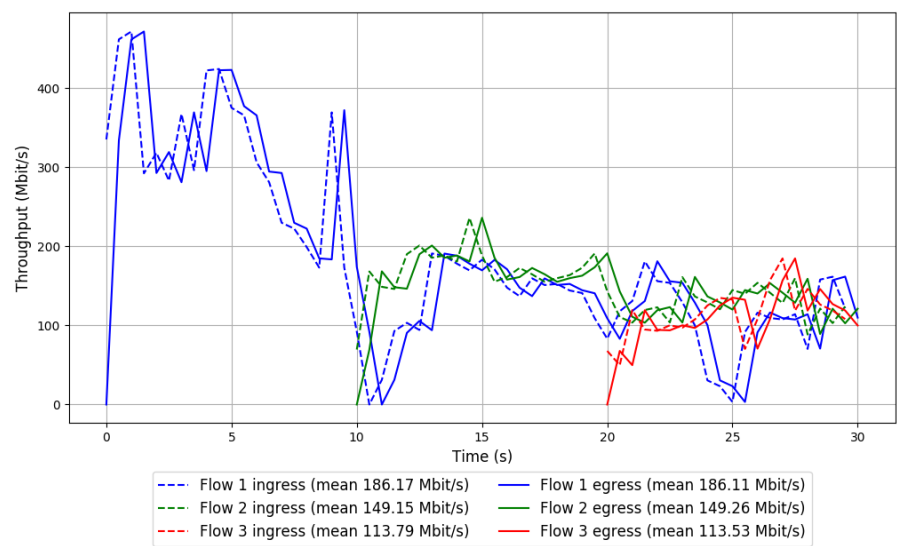
-- Flow 3:

Average throughput: 113.53 Mbit/s

95th percentile per-packet one-way delay: 1.933 ms

Loss rate: 0.36%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-07-10 23:38:45

End at: 2018-07-10 23:39:15

Local clock offset: 0.45 ms

Remote clock offset: 1.728 ms

Below is generated by plot.py at 2018-07-11 03:06:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 251.85 Mbit/s

95th percentile per-packet one-way delay: 3.763 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 140.57 Mbit/s

95th percentile per-packet one-way delay: 4.715 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 114.81 Mbit/s

95th percentile per-packet one-way delay: 2.194 ms

Loss rate: 0.01%

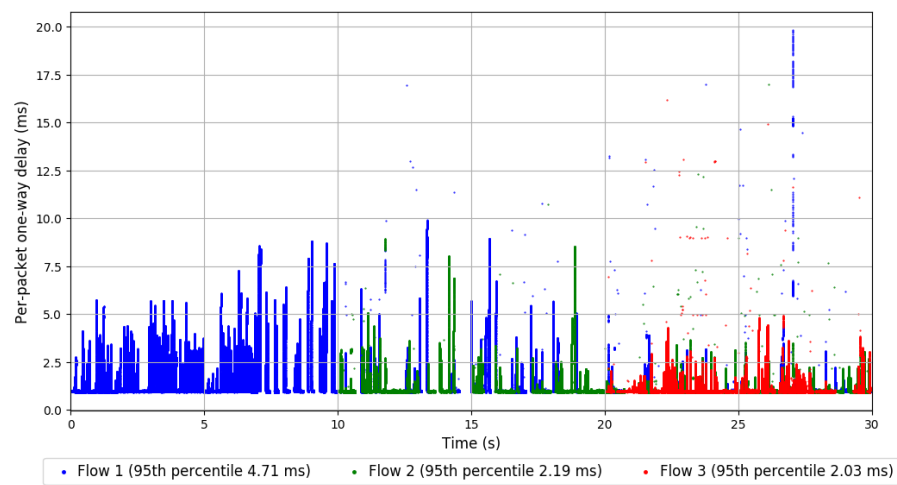
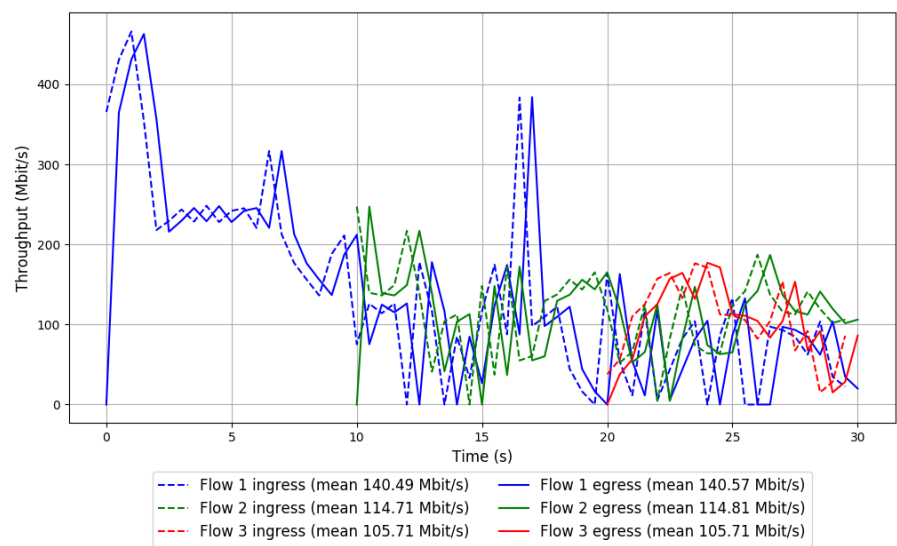
-- Flow 3:

Average throughput: 105.71 Mbit/s

95th percentile per-packet one-way delay: 2.033 ms

Loss rate: 0.00%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-07-11 00:05:36

End at: 2018-07-11 00:06:06

Local clock offset: 0.575 ms

Remote clock offset: 1.636 ms

Below is generated by plot.py at 2018-07-11 03:06:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 284.56 Mbit/s

95th percentile per-packet one-way delay: 3.749 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 155.41 Mbit/s

95th percentile per-packet one-way delay: 4.502 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 139.21 Mbit/s

95th percentile per-packet one-way delay: 2.601 ms

Loss rate: 0.00%

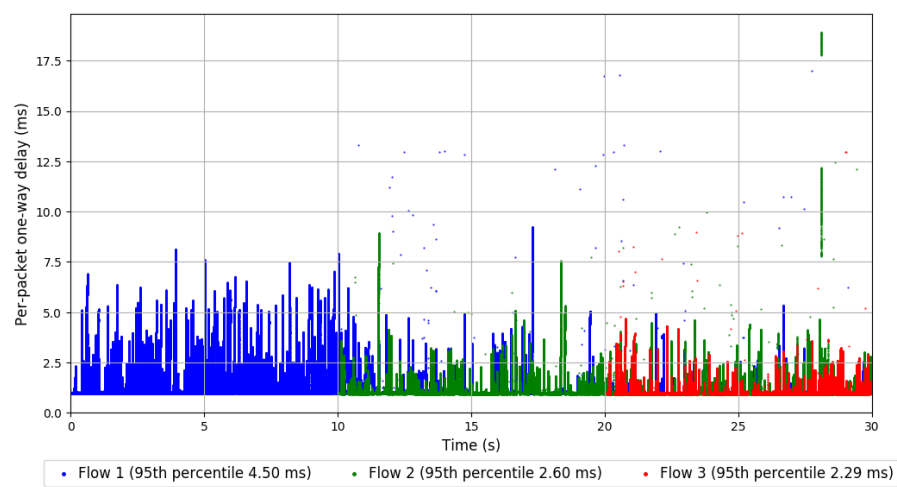
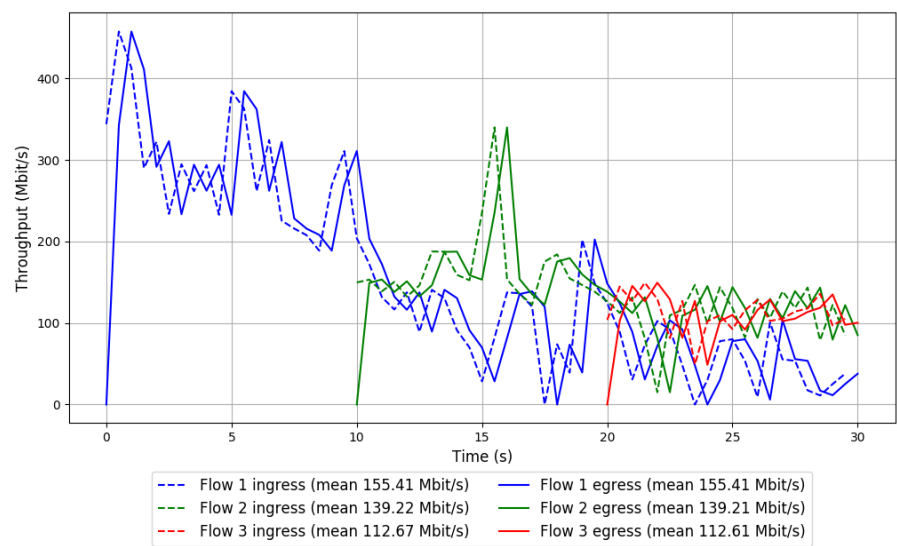
-- Flow 3:

Average throughput: 112.61 Mbit/s

95th percentile per-packet one-way delay: 2.295 ms

Loss rate: 0.22%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-07-11 00:32:34

End at: 2018-07-11 00:33:04

Local clock offset: 0.756 ms

Remote clock offset: 1.429 ms

Below is generated by plot.py at 2018-07-11 03:06:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 258.78 Mbit/s

95th percentile per-packet one-way delay: 6.368 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 162.12 Mbit/s

95th percentile per-packet one-way delay: 7.234 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 123.85 Mbit/s

95th percentile per-packet one-way delay: 2.031 ms

Loss rate: 0.13%

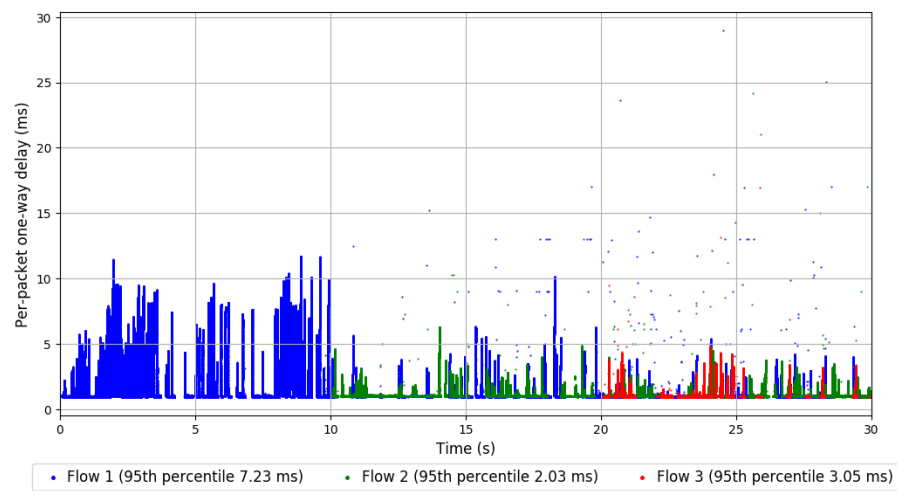
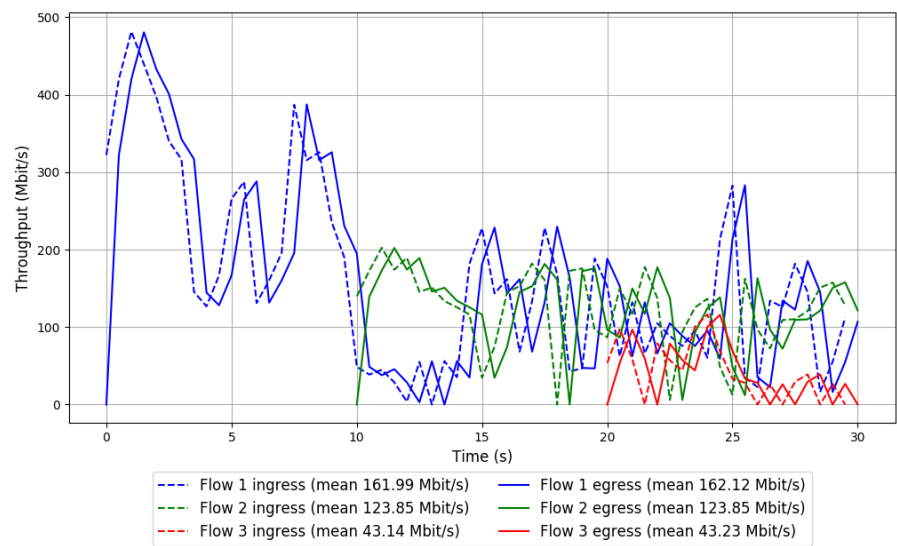
-- Flow 3:

Average throughput: 43.23 Mbit/s

95th percentile per-packet one-way delay: 3.048 ms

Loss rate: 0.01%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-07-10 20:17:49

End at: 2018-07-10 20:18:19

Local clock offset: 0.779 ms

Remote clock offset: 0.257 ms

Below is generated by plot.py at 2018-07-11 03:07:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 304.67 Mbit/s

95th percentile per-packet one-way delay: 0.950 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 253.94 Mbit/s

95th percentile per-packet one-way delay: 0.946 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 52.28 Mbit/s

95th percentile per-packet one-way delay: 0.969 ms

Loss rate: 0.16%

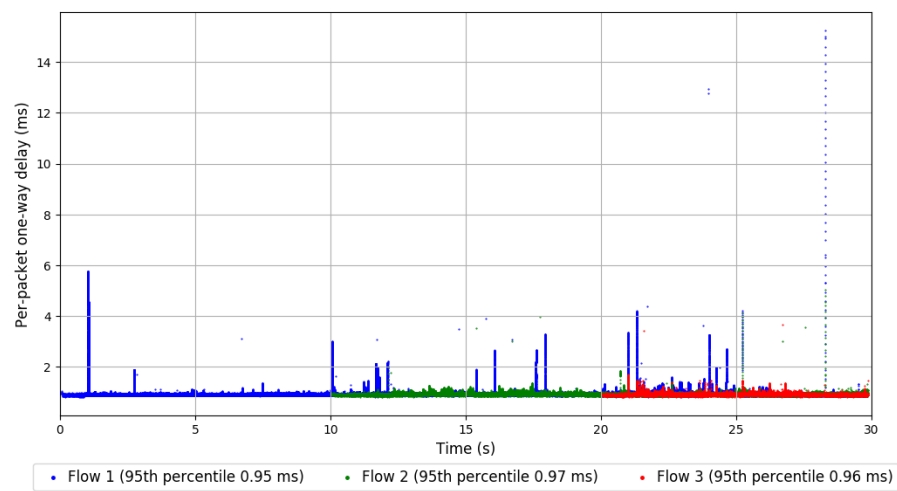
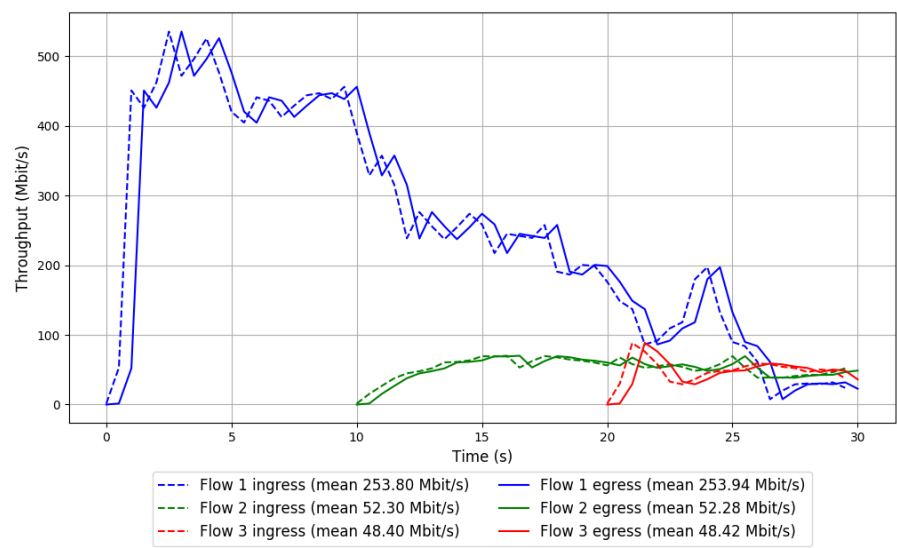
-- Flow 3:

Average throughput: 48.42 Mbit/s

95th percentile per-packet one-way delay: 0.957 ms

Loss rate: 0.14%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-07-10 20:44:48

End at: 2018-07-10 20:45:18

Local clock offset: 0.561 ms

Remote clock offset: 1.03 ms

Below is generated by plot.py at 2018-07-11 03:08:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 330.98 Mbit/s

95th percentile per-packet one-way delay: 1.103 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 233.45 Mbit/s

95th percentile per-packet one-way delay: 1.097 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 119.91 Mbit/s

95th percentile per-packet one-way delay: 1.122 ms

Loss rate: 0.08%

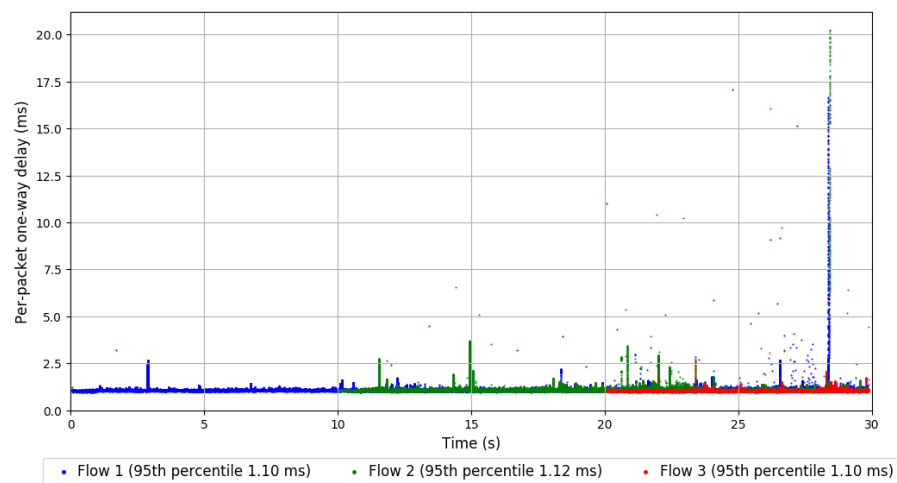
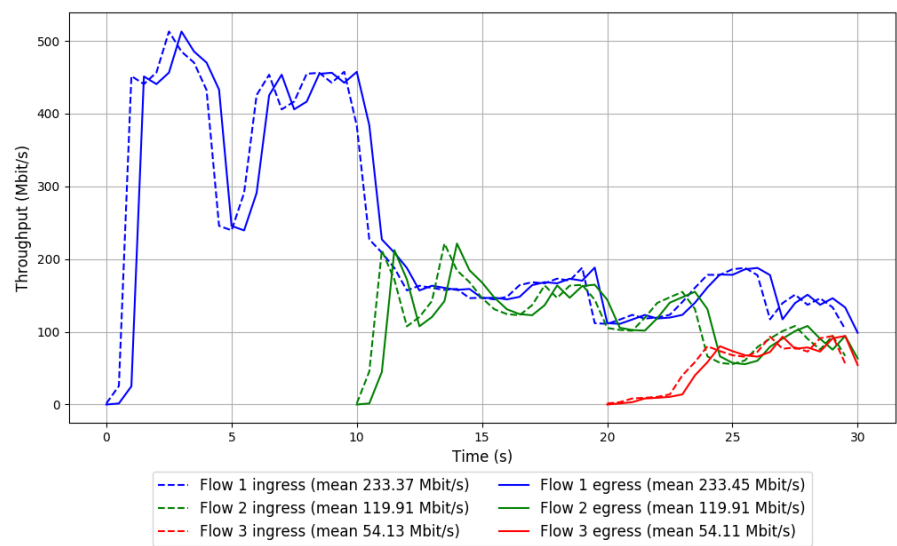
-- Flow 3:

Average throughput: 54.11 Mbit/s

95th percentile per-packet one-way delay: 1.098 ms

Loss rate: 0.24%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-07-10 21:11:36

End at: 2018-07-10 21:12:06

Local clock offset: 0.578 ms

Remote clock offset: 1.706 ms

Below is generated by plot.py at 2018-07-11 03:08:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 340.36 Mbit/s

95th percentile per-packet one-way delay: 0.938 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 259.46 Mbit/s

95th percentile per-packet one-way delay: 0.937 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 79.20 Mbit/s

95th percentile per-packet one-way delay: 0.938 ms

Loss rate: 0.15%

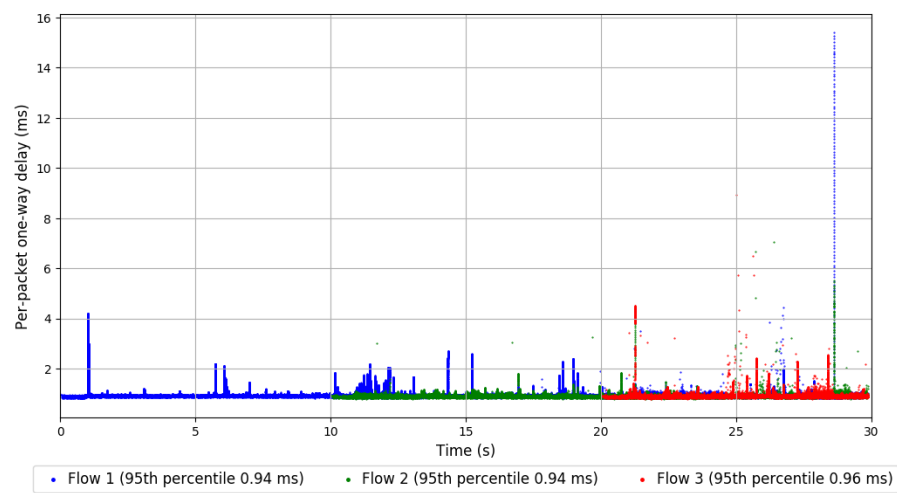
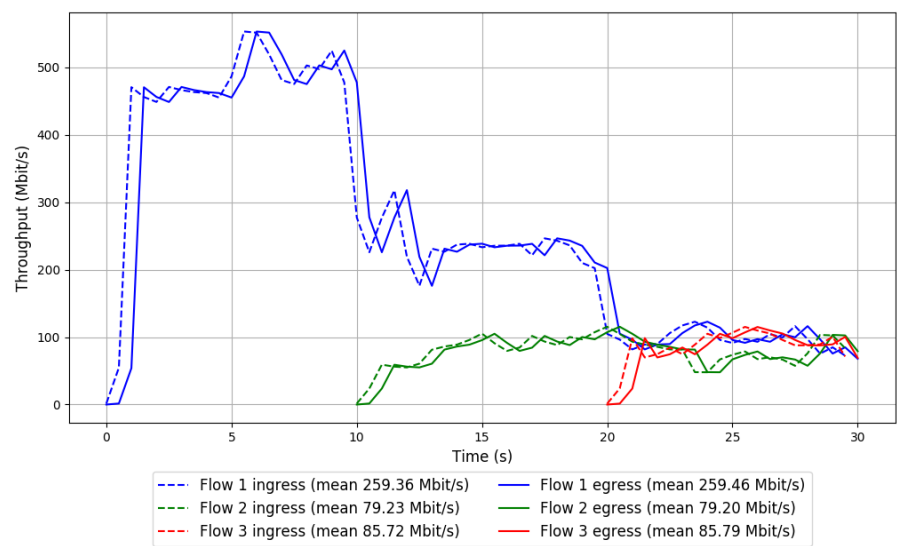
-- Flow 3:

Average throughput: 85.79 Mbit/s

95th percentile per-packet one-way delay: 0.958 ms

Loss rate: 0.13%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-07-10 21:38:35

End at: 2018-07-10 21:39:05

Local clock offset: 0.662 ms

Remote clock offset: 2.177 ms

Below is generated by plot.py at 2018-07-11 03:10:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 395.60 Mbit/s

95th percentile per-packet one-way delay: 1.084 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 365.17 Mbit/s

95th percentile per-packet one-way delay: 1.080 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 1.093 ms

Loss rate: 0.00%

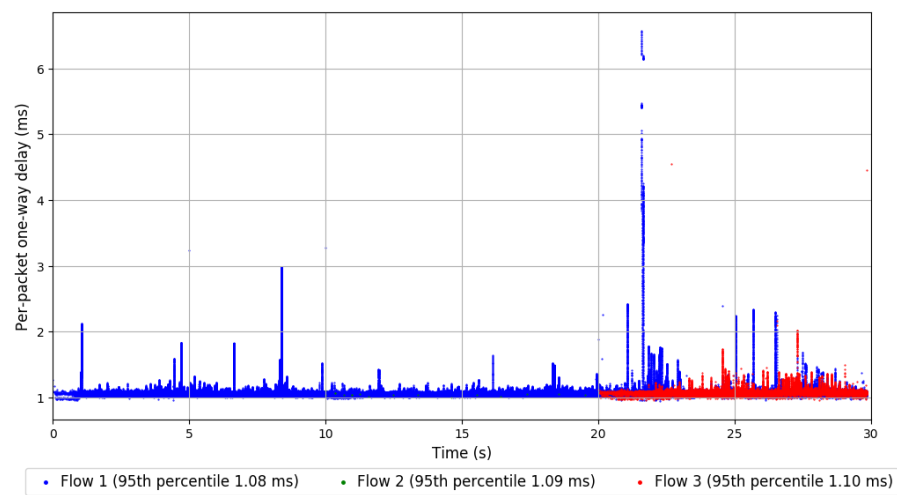
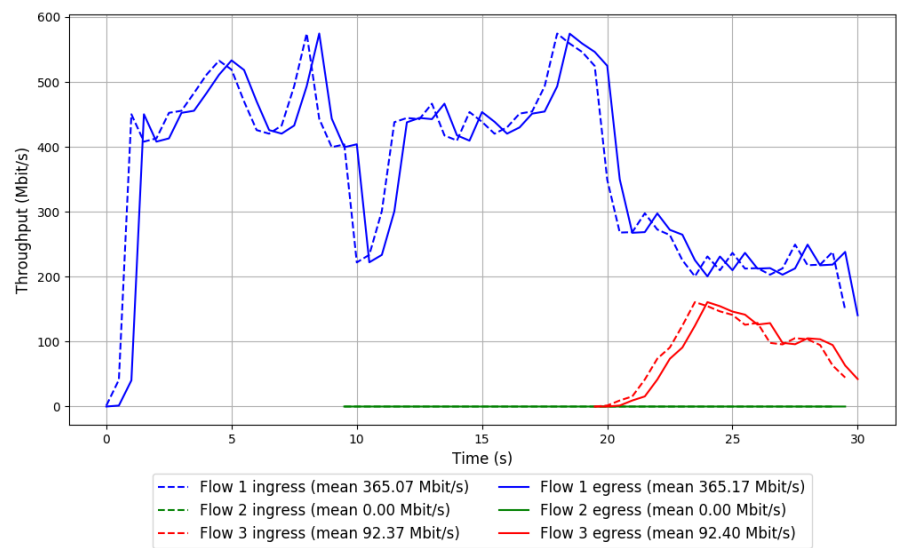
-- Flow 3:

Average throughput: 92.40 Mbit/s

95th percentile per-packet one-way delay: 1.104 ms

Loss rate: 0.14%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-07-10 22:05:35

End at: 2018-07-10 22:06:05

Local clock offset: 0.671 ms

Remote clock offset: 2.306 ms

Below is generated by plot.py at 2018-07-11 03:10:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 285.52 Mbit/s

95th percentile per-packet one-way delay: 1.082 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 196.01 Mbit/s

95th percentile per-packet one-way delay: 1.082 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 103.31 Mbit/s

95th percentile per-packet one-way delay: 1.078 ms

Loss rate: 0.09%

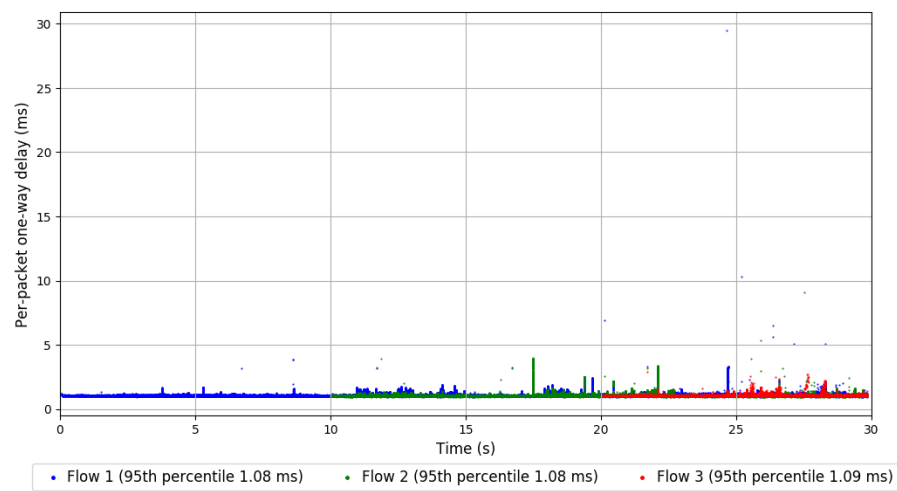
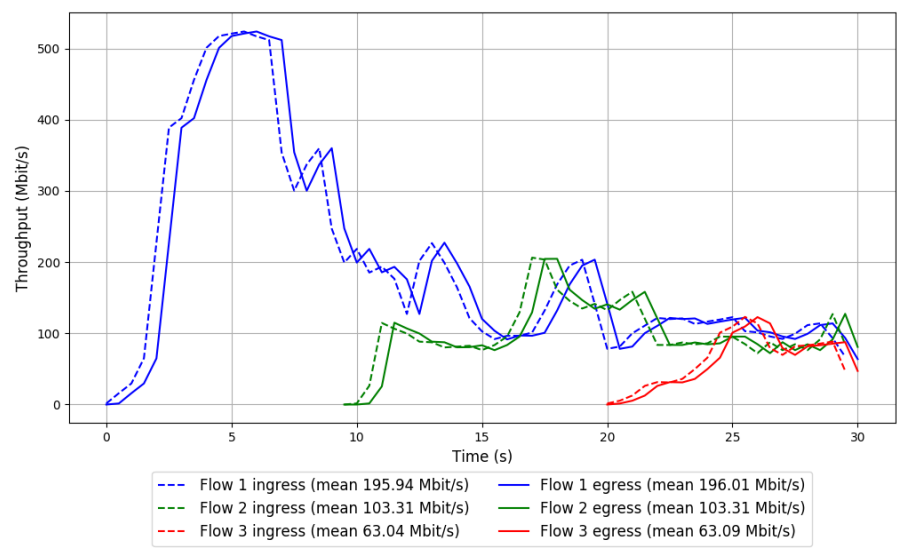
-- Flow 3:

Average throughput: 63.09 Mbit/s

95th percentile per-packet one-way delay: 1.090 ms

Loss rate: 0.09%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-07-10 22:32:32

End at: 2018-07-10 22:33:02

Local clock offset: 0.868 ms

Remote clock offset: 2.296 ms

Below is generated by plot.py at 2018-07-11 03:10:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 349.13 Mbit/s

95th percentile per-packet one-way delay: 1.014 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 251.74 Mbit/s

95th percentile per-packet one-way delay: 1.015 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 112.87 Mbit/s

95th percentile per-packet one-way delay: 1.016 ms

Loss rate: 0.09%

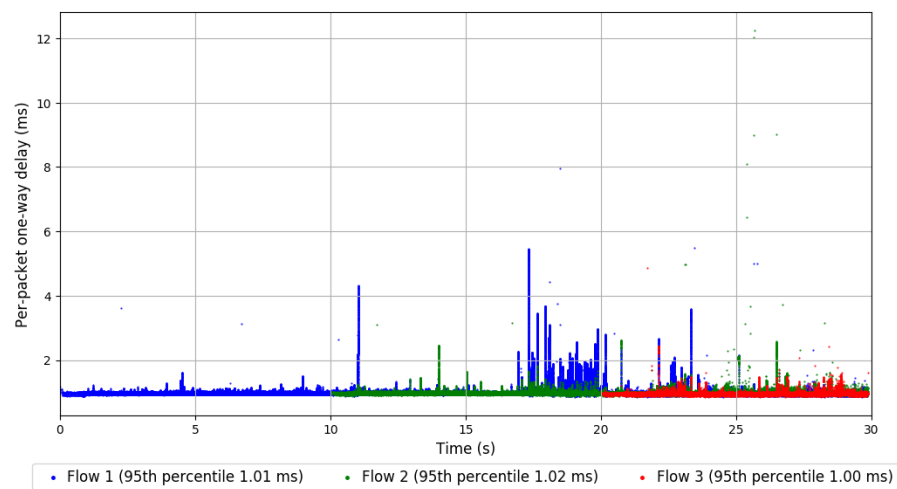
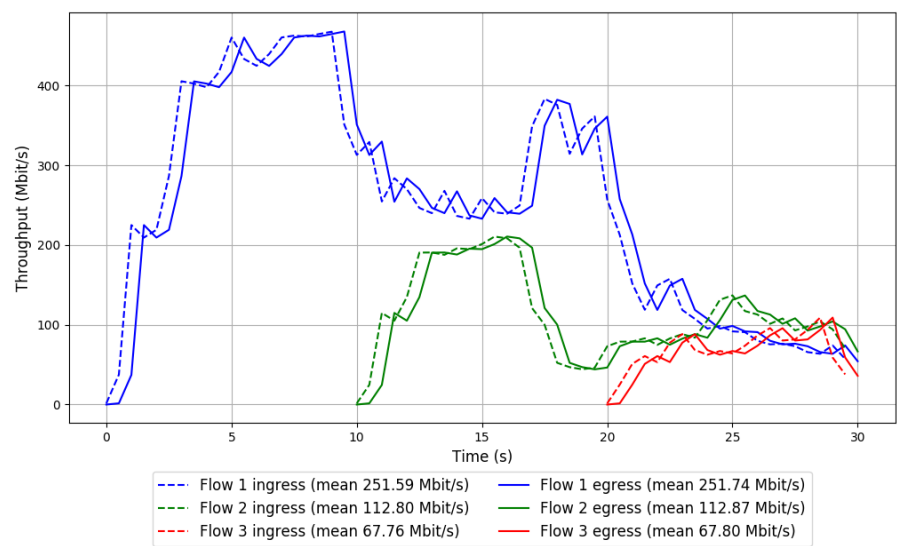
-- Flow 3:

Average throughput: 67.80 Mbit/s

95th percentile per-packet one-way delay: 0.999 ms

Loss rate: 0.14%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-07-10 22:59:31

End at: 2018-07-10 23:00:01

Local clock offset: 0.789 ms

Remote clock offset: 1.966 ms

Below is generated by plot.py at 2018-07-11 03:10:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 315.85 Mbit/s

95th percentile per-packet one-way delay: 1.090 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 227.58 Mbit/s

95th percentile per-packet one-way delay: 1.079 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 99.90 Mbit/s

95th percentile per-packet one-way delay: 1.130 ms

Loss rate: 0.06%

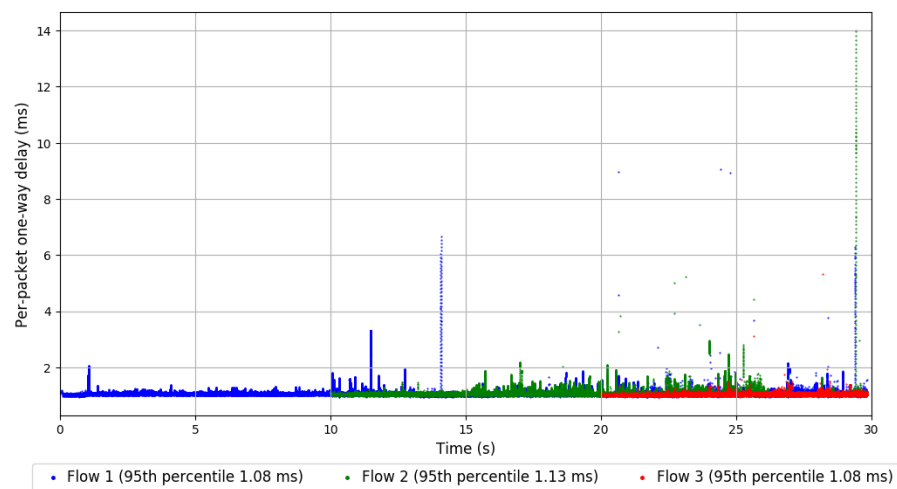
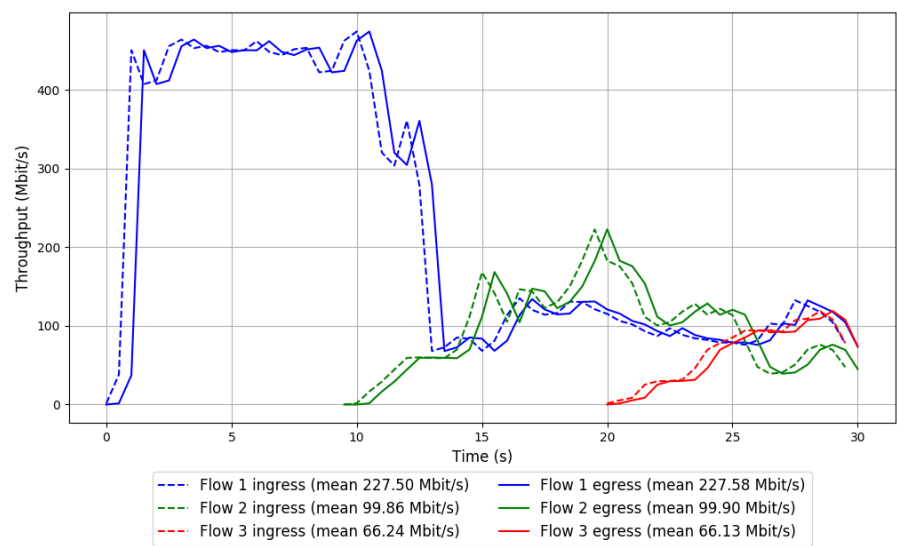
-- Flow 3:

Average throughput: 66.13 Mbit/s

95th percentile per-packet one-way delay: 1.085 ms

Loss rate: 0.36%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-07-10 23:26:18

End at: 2018-07-10 23:26:48

Local clock offset: 0.556 ms

Remote clock offset: 1.798 ms

Below is generated by plot.py at 2018-07-11 03:10:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 347.00 Mbit/s

95th percentile per-packet one-way delay: 1.058 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 270.84 Mbit/s

95th percentile per-packet one-way delay: 1.059 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 93.06 Mbit/s

95th percentile per-packet one-way delay: 1.061 ms

Loss rate: 0.03%

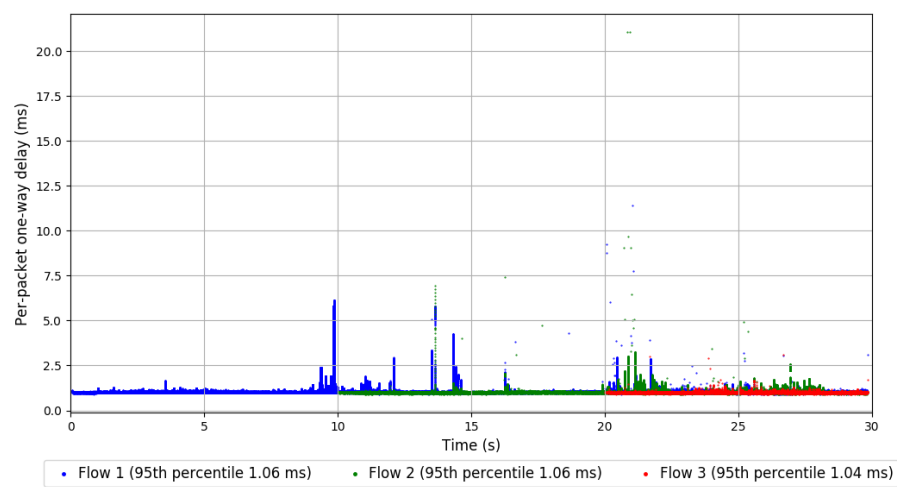
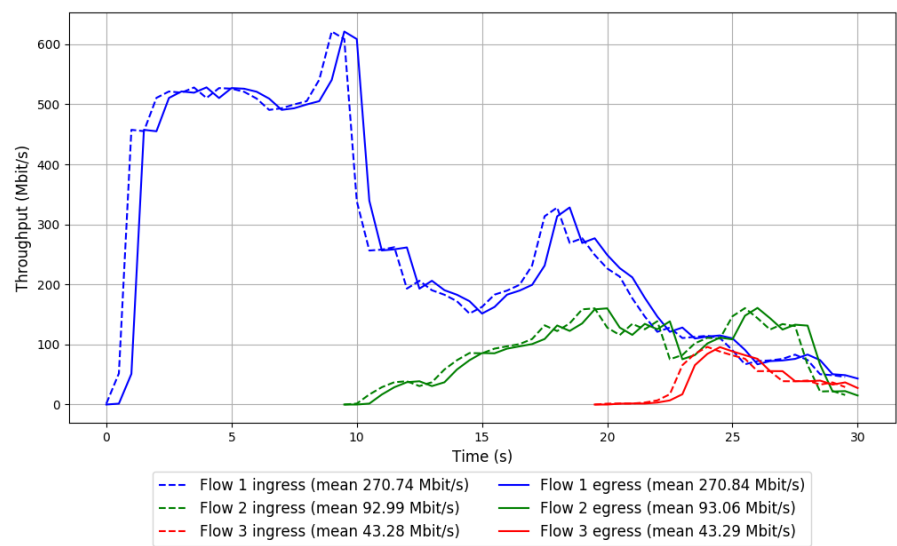
-- Flow 3:

Average throughput: 43.29 Mbit/s

95th percentile per-packet one-way delay: 1.037 ms

Loss rate: 0.19%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-07-10 23:53:10

End at: 2018-07-10 23:53:40

Local clock offset: 0.634 ms

Remote clock offset: 1.683 ms

Below is generated by plot.py at 2018-07-11 03:10:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 339.07 Mbit/s

95th percentile per-packet one-way delay: 1.107 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 250.18 Mbit/s

95th percentile per-packet one-way delay: 1.091 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 100.13 Mbit/s

95th percentile per-packet one-way delay: 1.193 ms

Loss rate: 0.08%

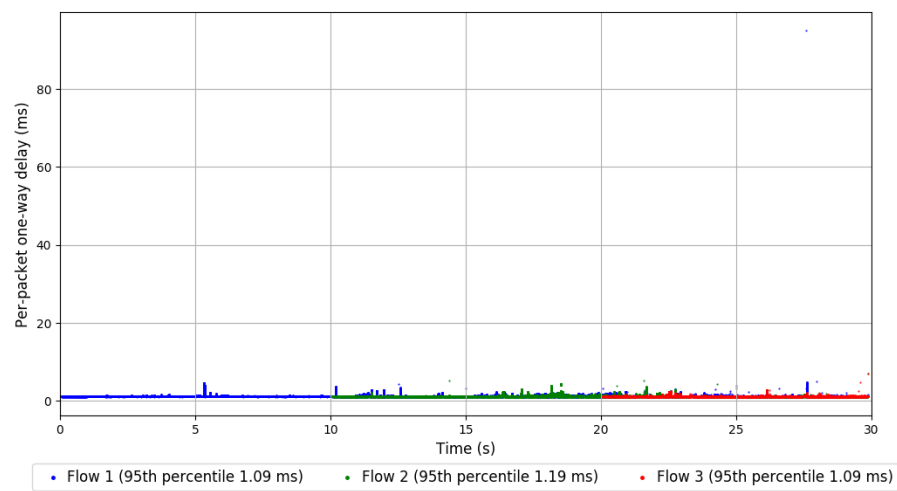
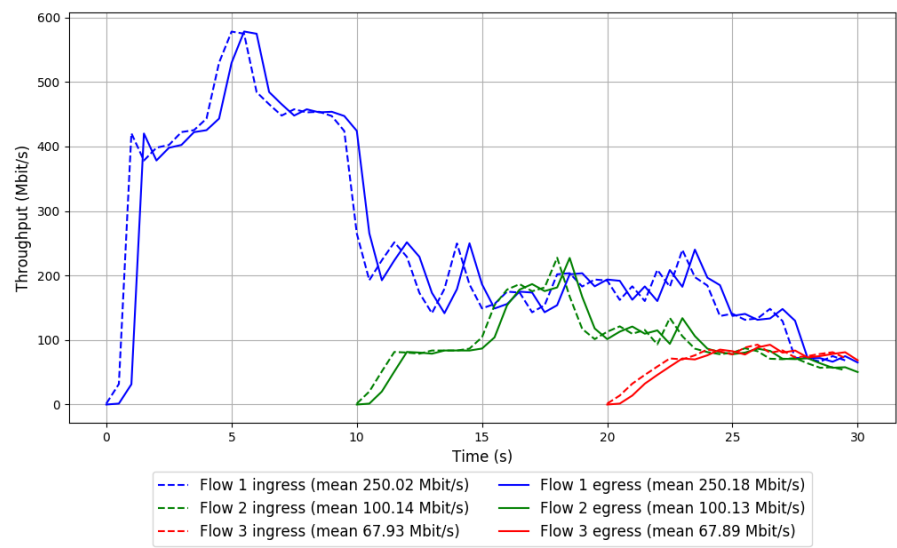
-- Flow 3:

Average throughput: 67.89 Mbit/s

95th percentile per-packet one-way delay: 1.088 ms

Loss rate: 0.28%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-07-11 00:20:05

End at: 2018-07-11 00:20:35

Local clock offset: 0.806 ms

Remote clock offset: 1.598 ms

Below is generated by plot.py at 2018-07-11 03:11:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 311.24 Mbit/s

95th percentile per-packet one-way delay: 1.090 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 189.98 Mbit/s

95th percentile per-packet one-way delay: 1.086 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 155.13 Mbit/s

95th percentile per-packet one-way delay: 1.098 ms

Loss rate: 0.06%

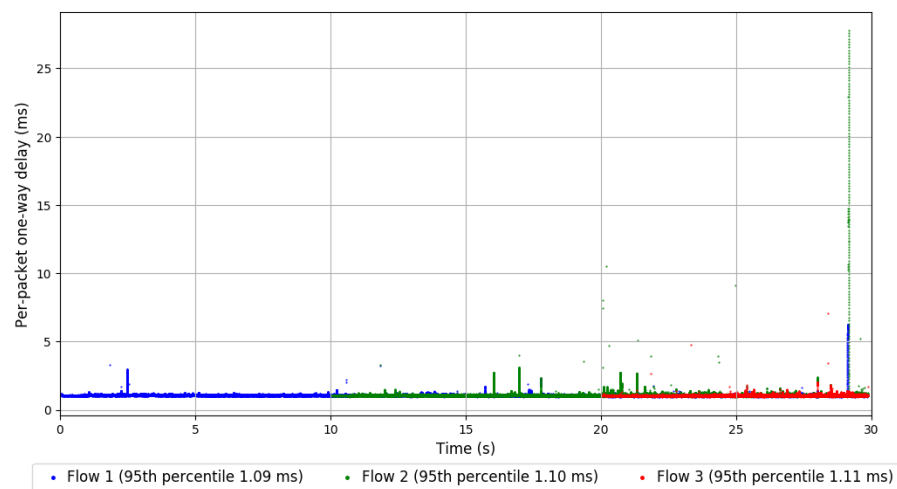
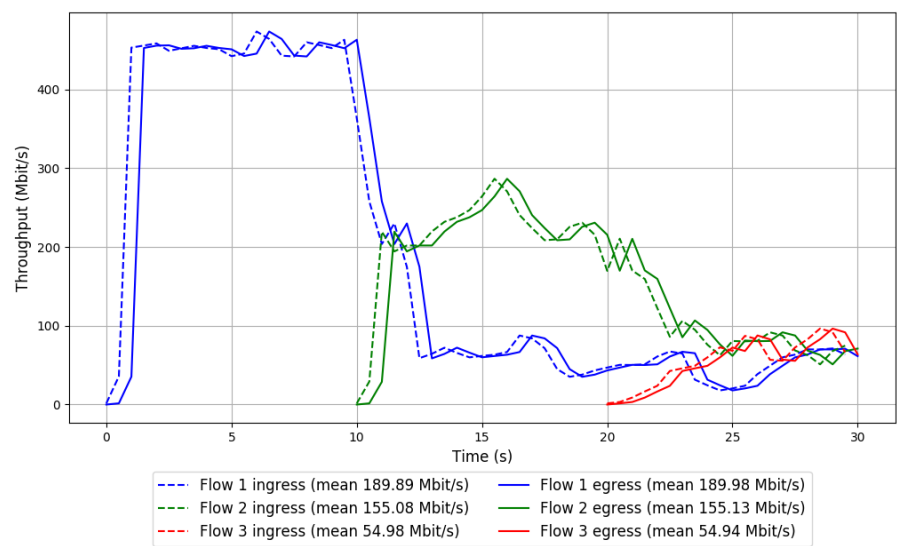
-- Flow 3:

Average throughput: 54.94 Mbit/s

95th percentile per-packet one-way delay: 1.106 ms

Loss rate: 0.26%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-07-10 20:20:38

End at: 2018-07-10 20:21:08

Local clock offset: 0.728 ms

Remote clock offset: 0.204 ms

Below is generated by plot.py at 2018-07-11 03:11:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.41 Mbit/s

95th percentile per-packet one-way delay: 1.111 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.73 Mbit/s

95th percentile per-packet one-way delay: 1.114 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.17 Mbit/s

95th percentile per-packet one-way delay: 1.102 ms

Loss rate: 0.00%

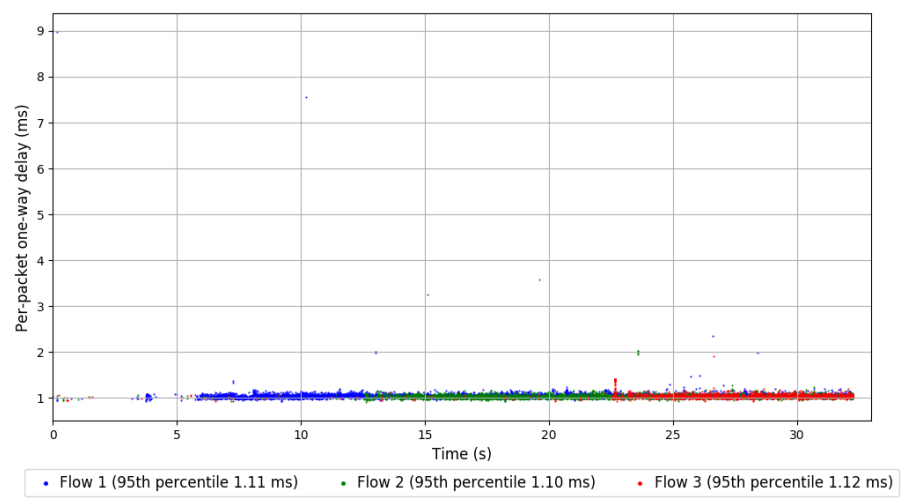
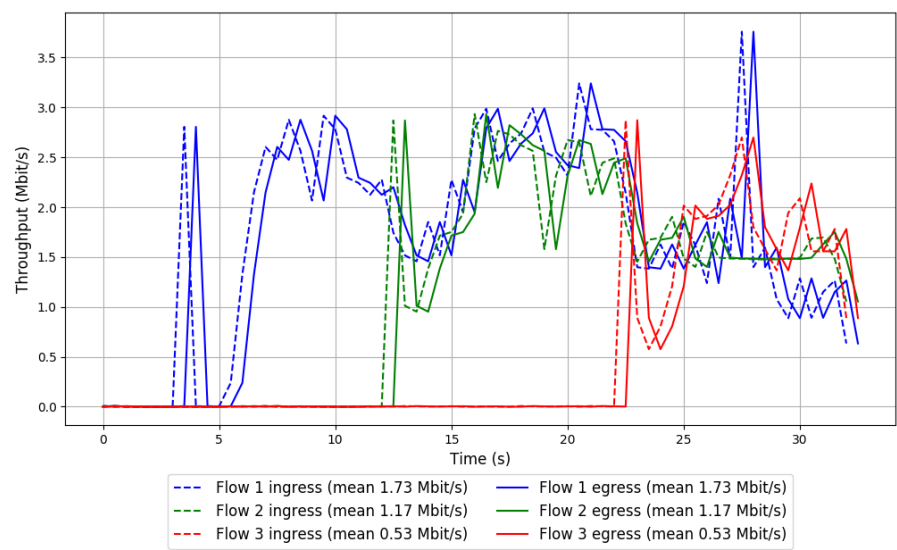
-- Flow 3:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 1.120 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-07-10 20:47:40

End at: 2018-07-10 20:48:10

Local clock offset: 0.484 ms

Remote clock offset: 1.122 ms

Below is generated by plot.py at 2018-07-11 03:11:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.41 Mbit/s

95th percentile per-packet one-way delay: 1.026 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 1.66 Mbit/s

95th percentile per-packet one-way delay: 1.024 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 1.20 Mbit/s

95th percentile per-packet one-way delay: 1.030 ms

Loss rate: 0.00%

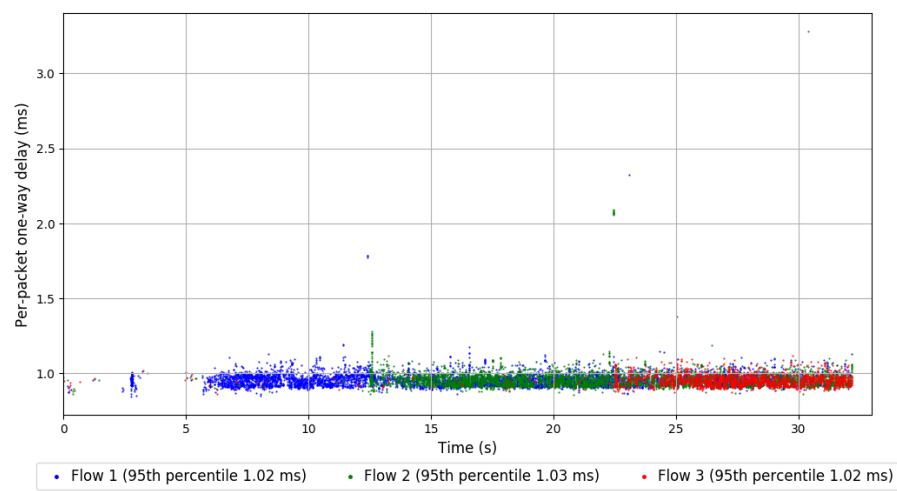
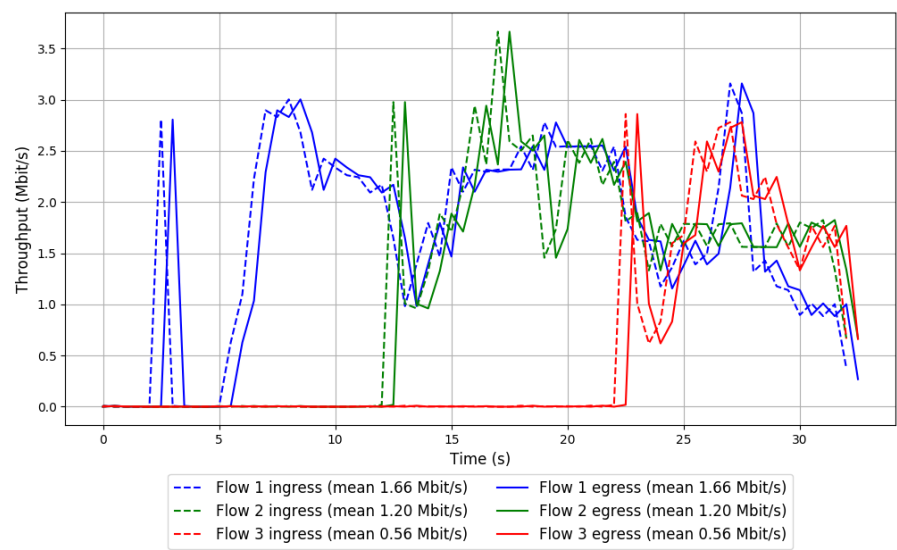
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 1.023 ms

Loss rate: 0.01%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-07-10 21:14:28

End at: 2018-07-10 21:14:58

Local clock offset: 0.689 ms

Remote clock offset: 1.774 ms

Below is generated by plot.py at 2018-07-11 03:11:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.41 Mbit/s

95th percentile per-packet one-way delay: 1.073 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.68 Mbit/s

95th percentile per-packet one-way delay: 1.080 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.20 Mbit/s

95th percentile per-packet one-way delay: 1.070 ms

Loss rate: 0.00%

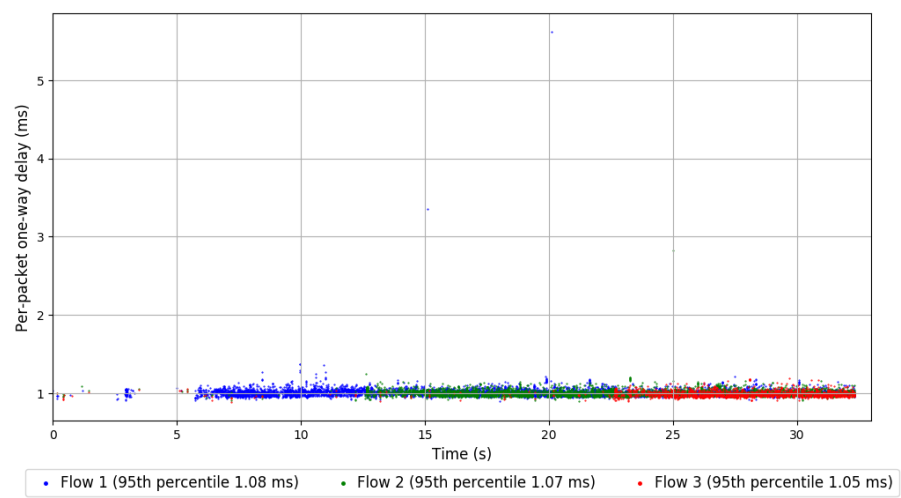
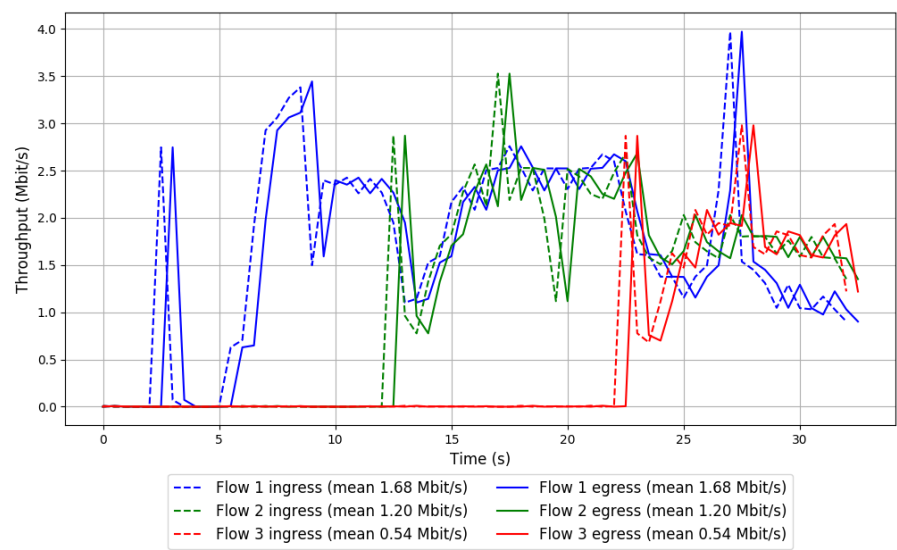
-- Flow 3:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 1.055 ms

Loss rate: 0.01%

Run 3: Report of WebRTC media — Data Link

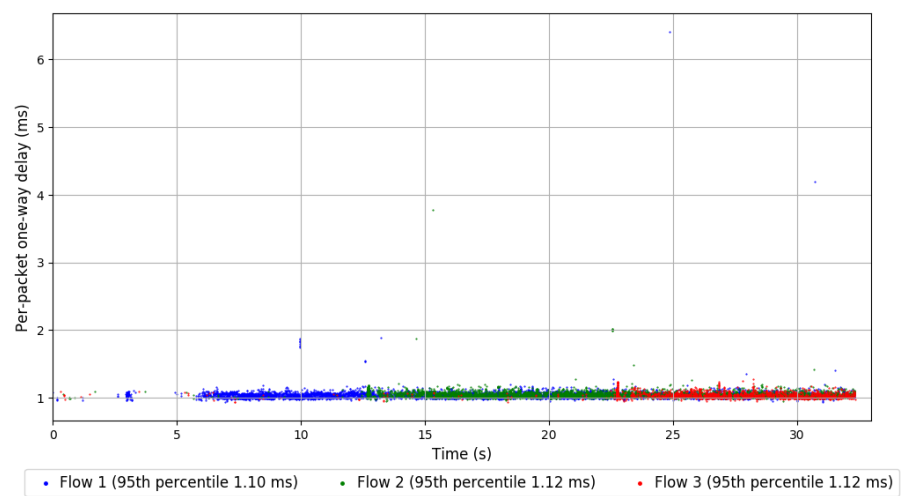
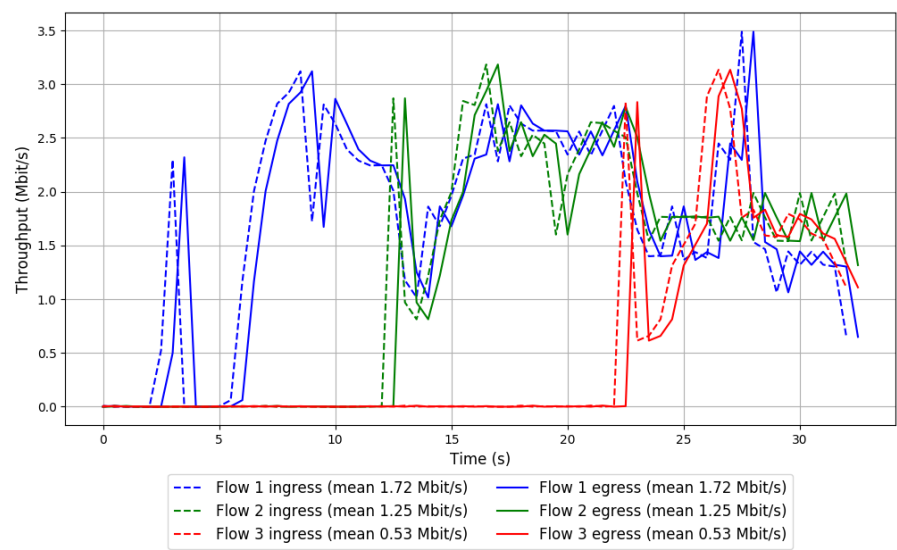


Run 4: Statistics of WebRTC media

Start at: 2018-07-10 21:41:30
End at: 2018-07-10 21:42:00
Local clock offset: 0.625 ms
Remote clock offset: 2.206 ms

```
# Below is generated by plot.py at 2018-07-11 03:11:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.49 Mbit/s
95th percentile per-packet one-way delay: 1.109 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.72 Mbit/s
95th percentile per-packet one-way delay: 1.099 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.25 Mbit/s
95th percentile per-packet one-way delay: 1.118 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 1.118 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-07-10 22:08:24

End at: 2018-07-10 22:08:54

Local clock offset: 0.607 ms

Remote clock offset: 2.322 ms

Below is generated by plot.py at 2018-07-11 03:11:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.45 Mbit/s

95th percentile per-packet one-way delay: 1.006 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.70 Mbit/s

95th percentile per-packet one-way delay: 1.002 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 1.012 ms

Loss rate: 0.00%

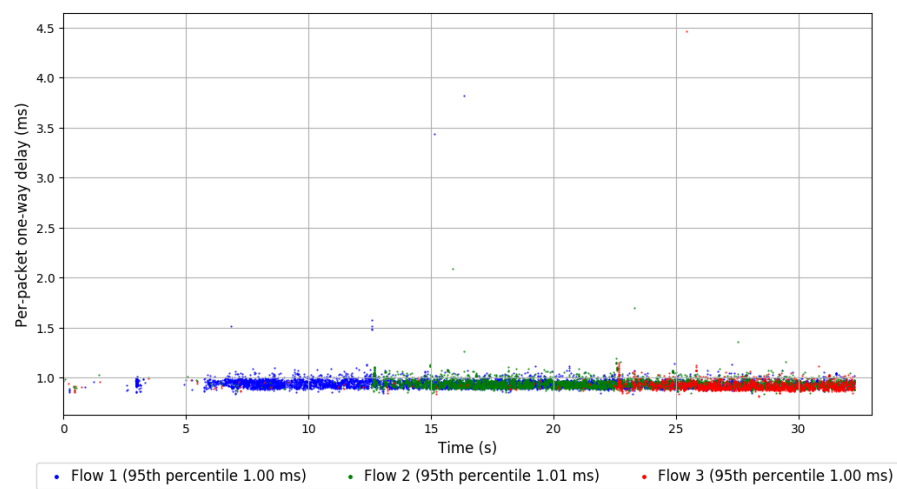
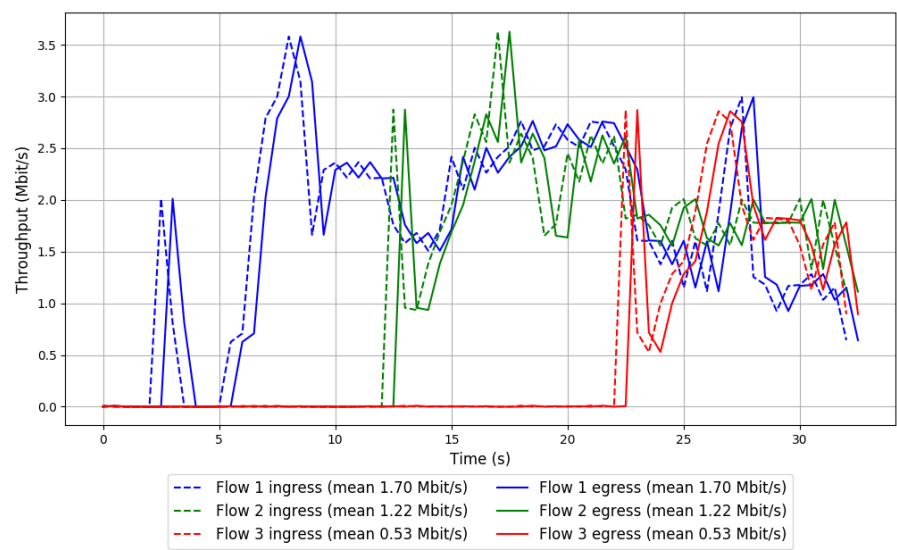
-- Flow 3:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 0.996 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-07-10 22:35:25

End at: 2018-07-10 22:35:55

Local clock offset: 0.909 ms

Remote clock offset: 2.219 ms

Below is generated by plot.py at 2018-07-11 03:11:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.46 Mbit/s

95th percentile per-packet one-way delay: 1.099 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 1.73 Mbit/s

95th percentile per-packet one-way delay: 1.092 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.23 Mbit/s

95th percentile per-packet one-way delay: 1.098 ms

Loss rate: 0.00%

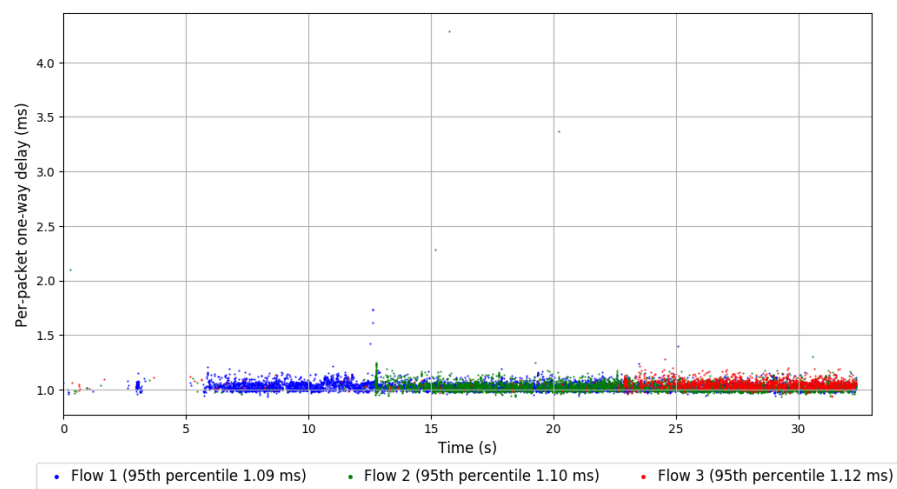
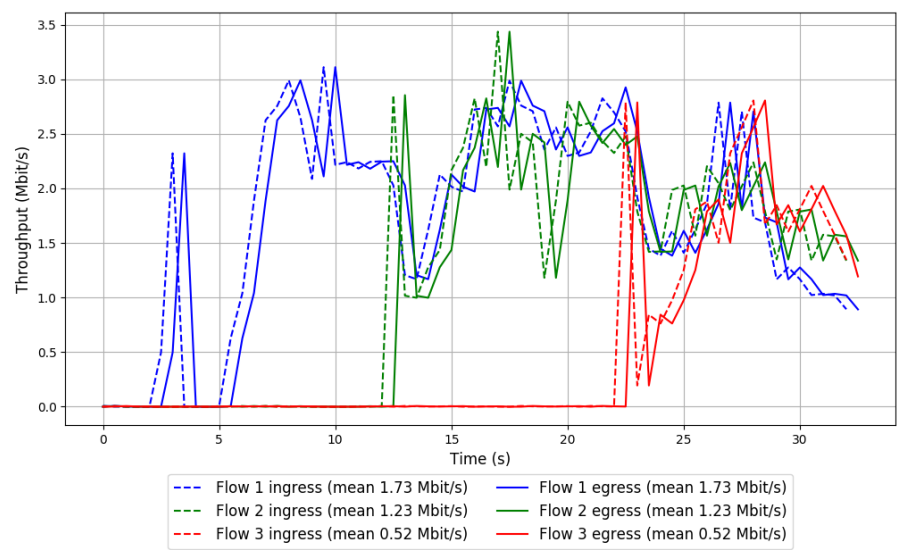
-- Flow 3:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 1.117 ms

Loss rate: 0.45%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-07-10 23:02:22

End at: 2018-07-10 23:02:52

Local clock offset: 0.772 ms

Remote clock offset: 1.919 ms

Below is generated by plot.py at 2018-07-11 03:11:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.42 Mbit/s

95th percentile per-packet one-way delay: 1.145 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 1.70 Mbit/s

95th percentile per-packet one-way delay: 1.147 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 1.143 ms

Loss rate: 0.00%

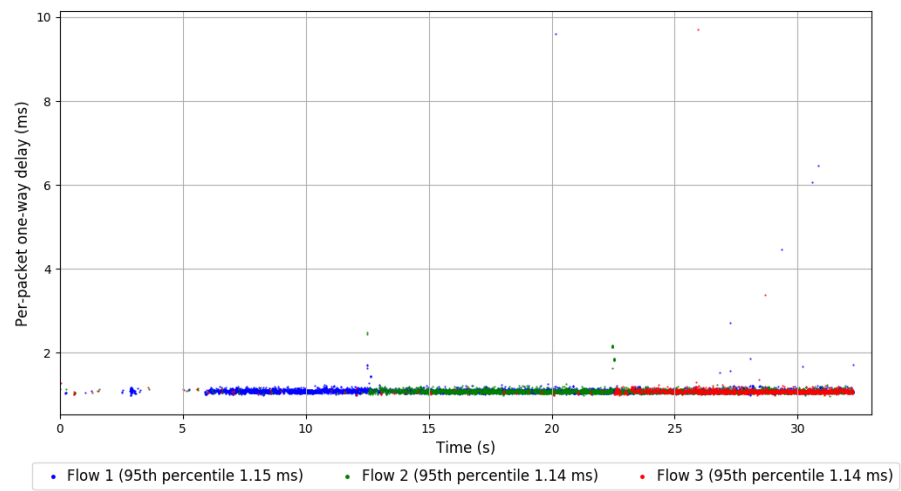
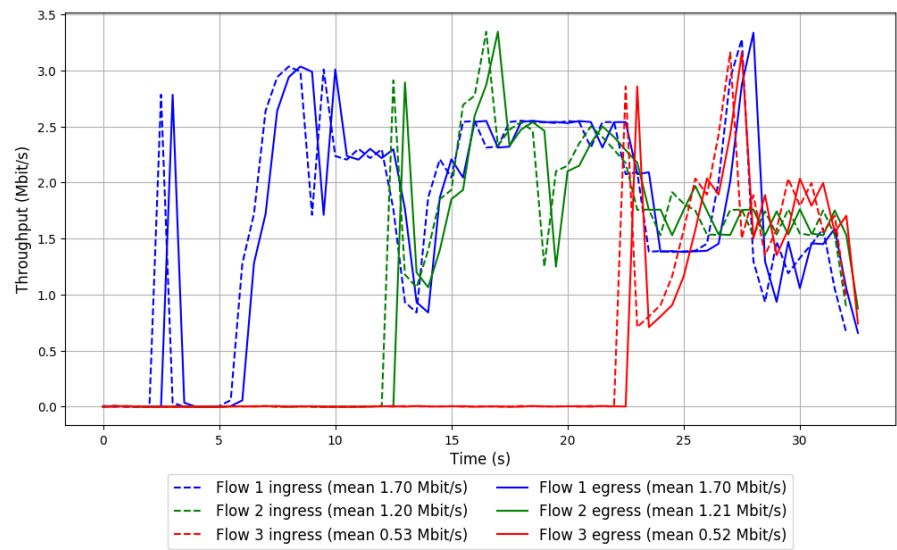
-- Flow 3:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 1.142 ms

Loss rate: 0.65%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-07-10 23:29:11

End at: 2018-07-10 23:29:41

Local clock offset: 0.55 ms

Remote clock offset: 1.758 ms

Below is generated by plot.py at 2018-07-11 03:11:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.41 Mbit/s

95th percentile per-packet one-way delay: 1.113 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 1.69 Mbit/s

95th percentile per-packet one-way delay: 1.117 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 1.100 ms

Loss rate: 0.00%

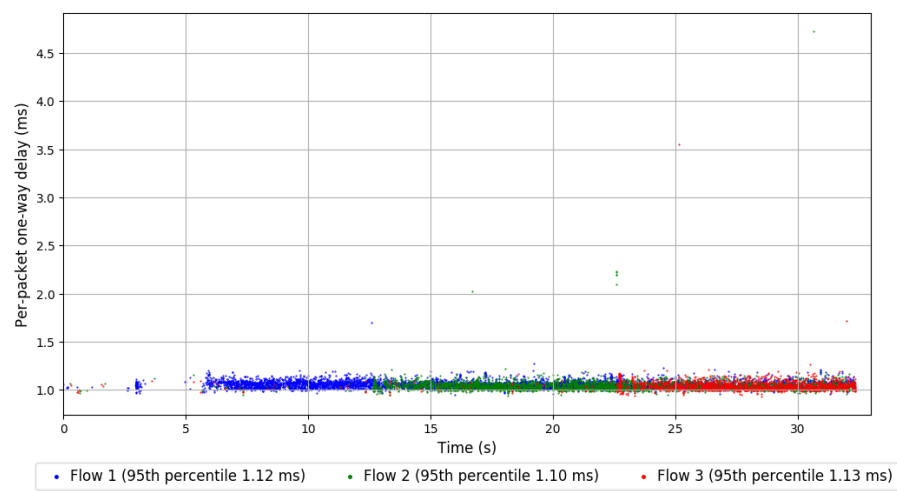
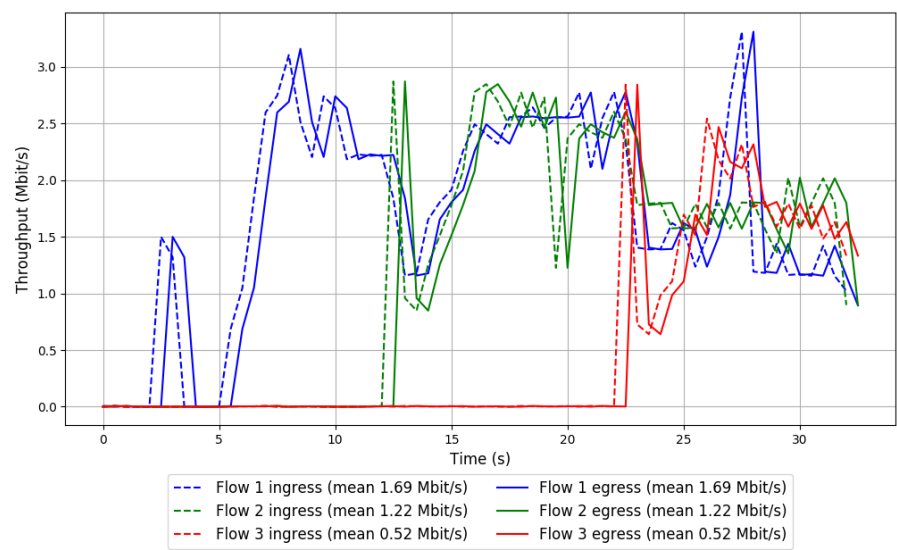
-- Flow 3:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 1.126 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-07-10 23:56:03

End at: 2018-07-10 23:56:33

Local clock offset: 0.664 ms

Remote clock offset: 1.755 ms

Below is generated by plot.py at 2018-07-11 03:11:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.44 Mbit/s

95th percentile per-packet one-way delay: 1.054 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 1.70 Mbit/s

95th percentile per-packet one-way delay: 1.051 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.23 Mbit/s

95th percentile per-packet one-way delay: 1.054 ms

Loss rate: 0.12%

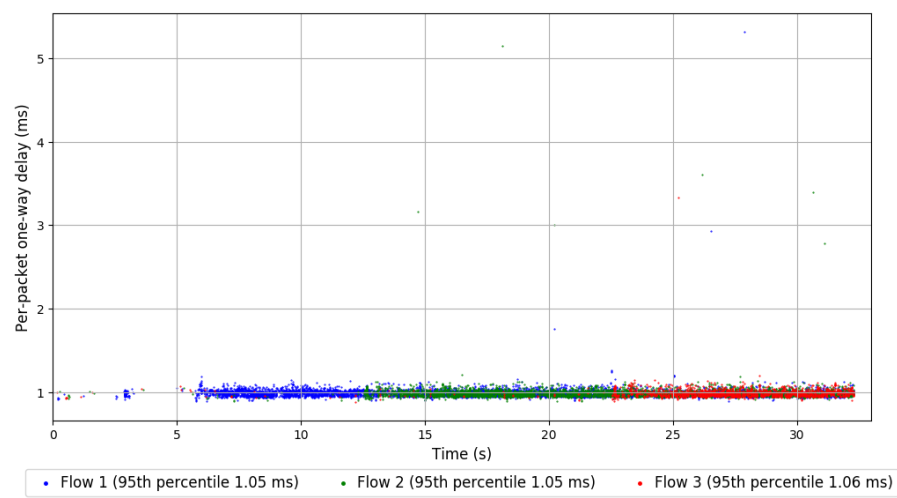
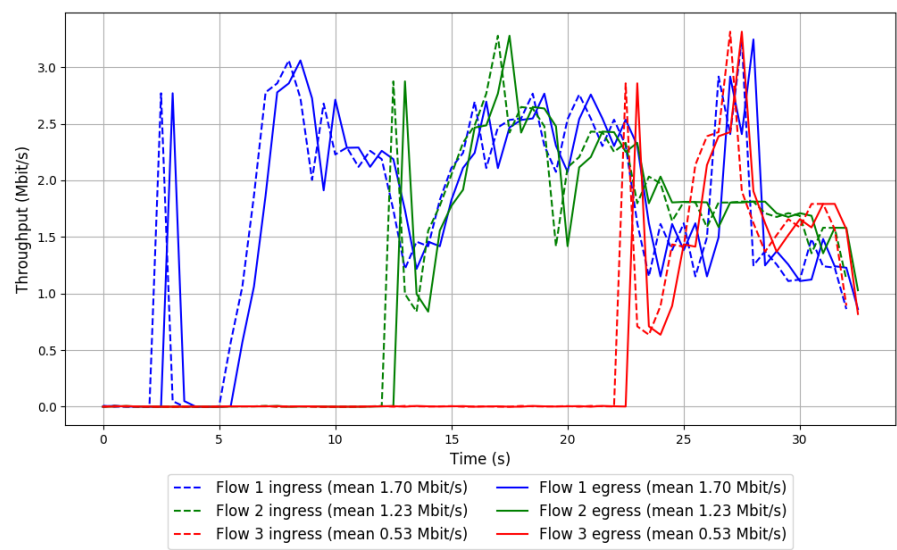
-- Flow 3:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 1.062 ms

Loss rate: 0.22%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-07-11 00:22:56

End at: 2018-07-11 00:23:26

Local clock offset: 0.711 ms

Remote clock offset: 1.556 ms

Below is generated by plot.py at 2018-07-11 03:11:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.42 Mbit/s

95th percentile per-packet one-way delay: 1.034 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 1.71 Mbit/s

95th percentile per-packet one-way delay: 1.033 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.18 Mbit/s

95th percentile per-packet one-way delay: 1.036 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 1.023 ms

Loss rate: 0.63%

Run 10: Report of WebRTC media — Data Link

