

Pantheon Report

Generated at 2018-07-25 14:27:33 (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.

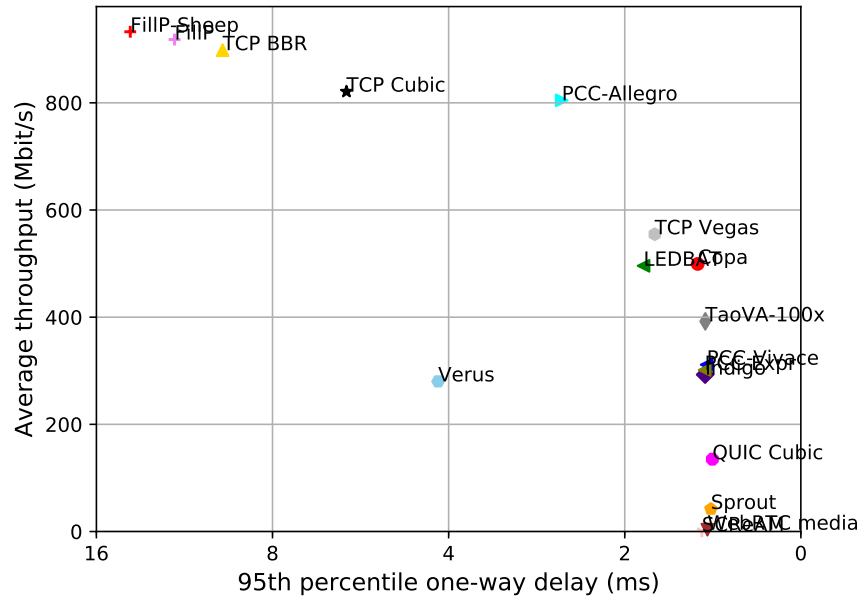
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

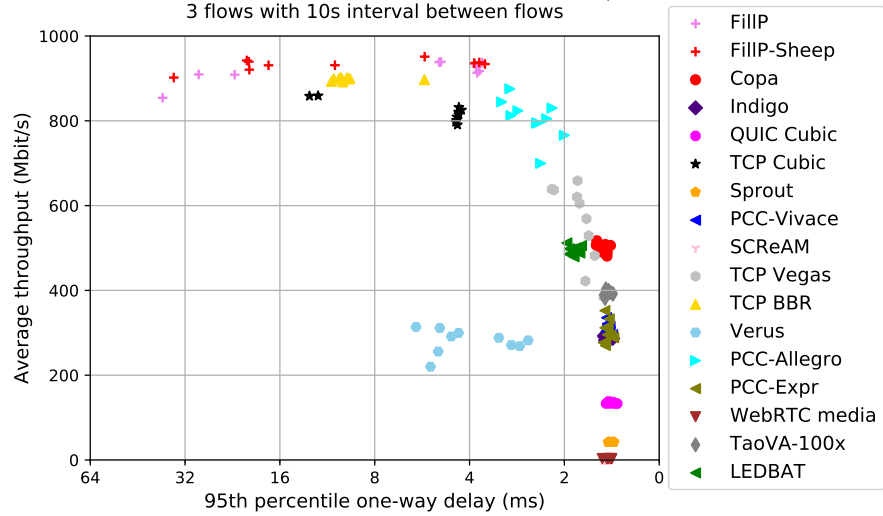
Git summary:

```
branch: master @ 640164b5b17c7c6561fff57729b3b5935d8596ce
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ daed0c84f98531712514b2231f43ec6901114ffe
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf90c077e64d
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 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	529.94	392.03	322.60	10.17	4.55	4.59	0.05	0.10	0.24
Copa	10	305.49	226.78	129.49	1.16	1.20	1.20	0.03	0.06	0.22
TCP Cubic	10	449.48	398.94	318.40	7.26	4.35	4.36	0.06	0.09	0.23
FillP	10	562.17	388.55	294.98	13.86	3.73	4.65	0.45	0.09	0.24
FillP-Sheep	10	562.58	398.59	317.25	15.21	4.32	4.43	0.16	0.08	0.20
Indigo	10	155.40	146.99	120.79	1.07	1.09	1.14	0.05	0.08	0.21
LEDBAT	10	290.50	228.68	159.86	1.68	1.96	1.76	0.05	0.08	0.18
PCC-Allegro	10	609.33	239.86	109.67	2.56	2.45	2.02	0.02	0.08	0.23
PCC-Expr	10	216.42	100.14	56.10	1.09	1.12	1.06	0.02	0.08	0.25
QUIC Cubic	10	73.00	66.07	54.28	1.00	1.01	1.01	0.05	0.09	0.22
SCReAM	10	0.22	0.22	0.22	1.12	1.12	1.12	0.08	0.13	0.28
Sprout	10	21.16	21.06	21.07	1.02	1.02	1.02	0.05	0.14	0.14
TaoVA-100x	10	222.08	195.28	120.96	1.03	1.07	1.40	0.03	0.07	0.21
TCP Vegas	10	232.00	317.60	334.86	1.48	1.69	1.91	0.04	0.09	0.20
Verus	10	162.75	130.92	93.56	5.18	1.91	2.05	0.04	0.07	0.24
PCC-Vivace	10	237.26	81.87	59.64	1.06	1.08	1.08	0.02	0.09	0.35
WebRTC media	10	1.71	1.20	0.51	1.06	1.06	1.07	0.02	0.11	0.24

Run 1: Statistics of TCP BBR

Start at: 2018-07-25 07:41:05

End at: 2018-07-25 07:41:35

Local clock offset: 3.418 ms

Remote clock offset: 0.986 ms

Below is generated by plot.py at 2018-07-25 12:28:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 902.40 Mbit/s

95th percentile per-packet one-way delay: 10.263 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 537.10 Mbit/s

95th percentile per-packet one-way delay: 10.630 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 389.85 Mbit/s

95th percentile per-packet one-way delay: 5.427 ms

Loss rate: 0.12%

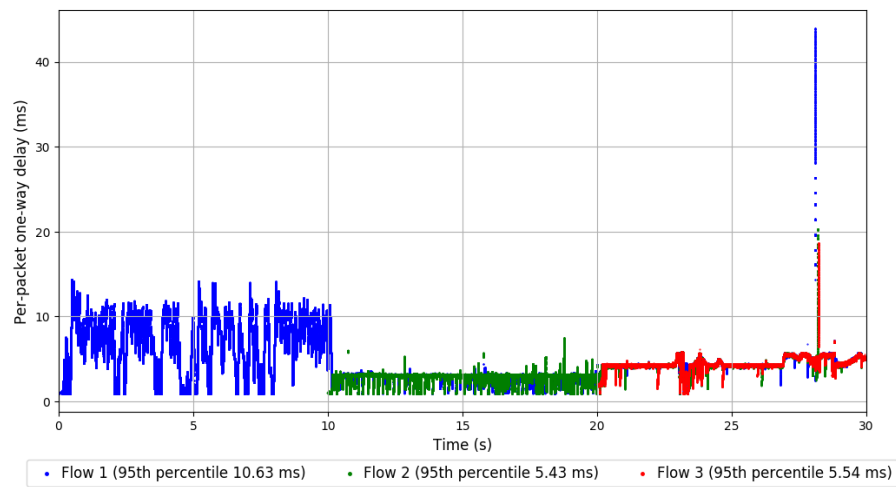
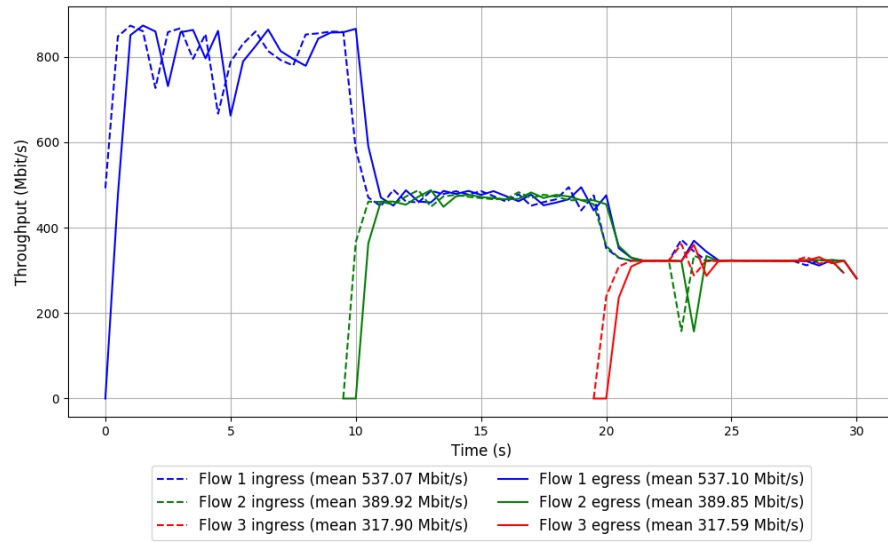
-- Flow 3:

Average throughput: 317.59 Mbit/s

95th percentile per-packet one-way delay: 5.544 ms

Loss rate: 0.30%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-07-25 08:07:57

End at: 2018-07-25 08:08:27

Local clock offset: 3.267 ms

Remote clock offset: 1.806 ms

Below is generated by plot.py at 2018-07-25 12:28:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 897.12 Mbit/s

95th percentile per-packet one-way delay: 5.563 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 529.95 Mbit/s

95th percentile per-packet one-way delay: 6.082 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 389.14 Mbit/s

95th percentile per-packet one-way delay: 5.486 ms

Loss rate: 0.11%

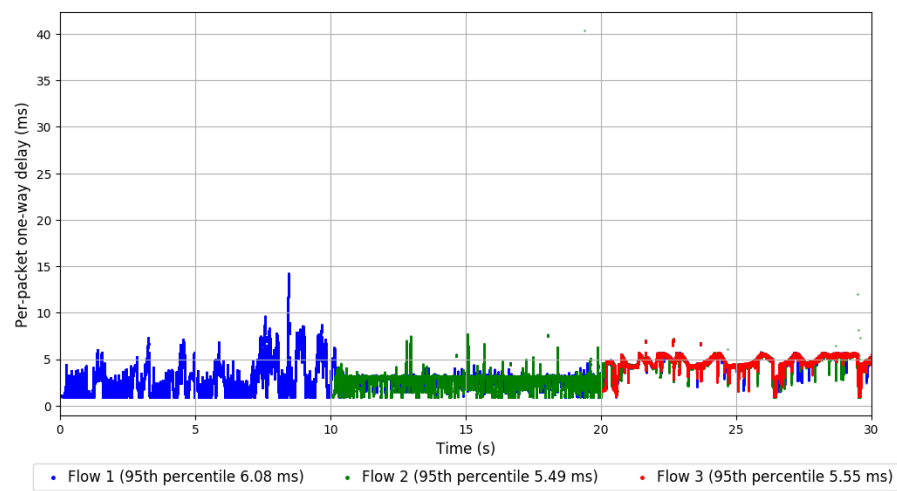
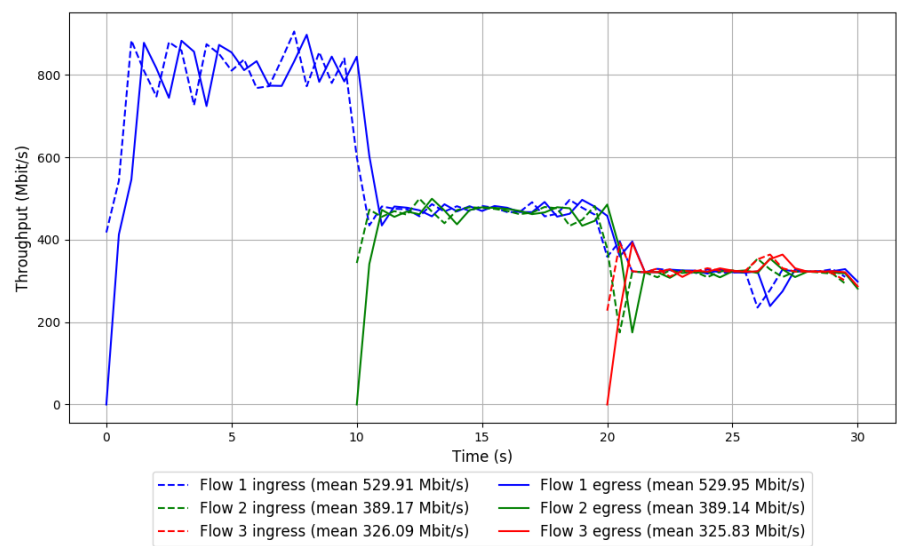
-- Flow 3:

Average throughput: 325.83 Mbit/s

95th percentile per-packet one-way delay: 5.548 ms

Loss rate: 0.28%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-07-25 08:34:49

End at: 2018-07-25 08:35:19

Local clock offset: 3.332 ms

Remote clock offset: 2.175 ms

Below is generated by plot.py at 2018-07-25 12:28:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 893.12 Mbit/s

95th percentile per-packet one-way delay: 10.973 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 523.34 Mbit/s

95th percentile per-packet one-way delay: 11.322 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 393.64 Mbit/s

95th percentile per-packet one-way delay: 4.366 ms

Loss rate: 0.10%

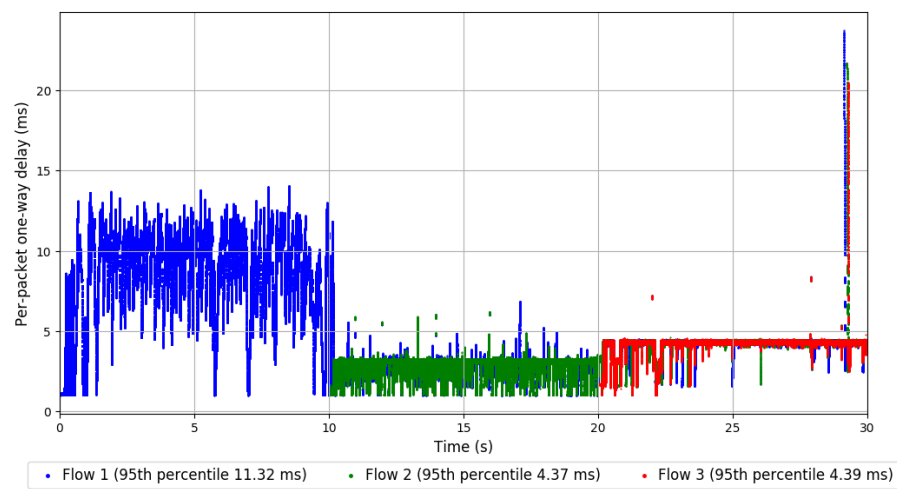
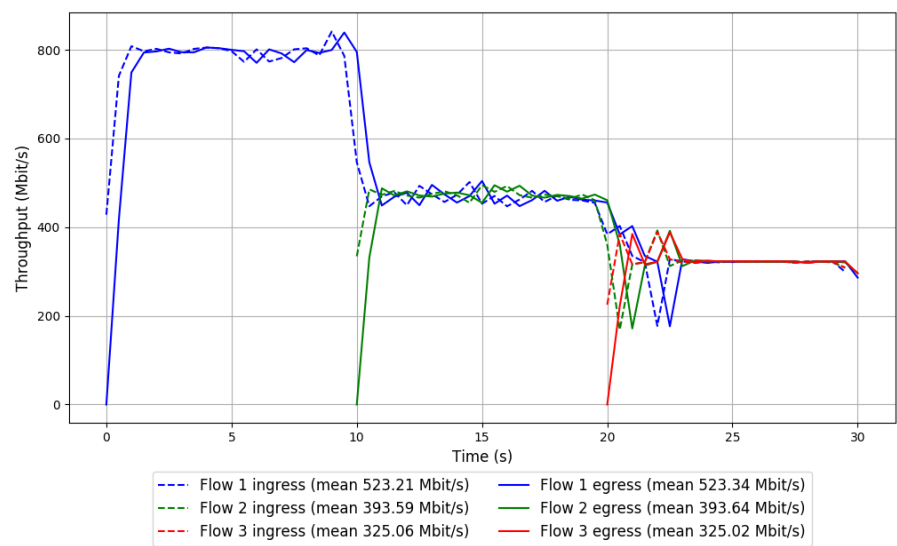
-- Flow 3:

Average throughput: 325.02 Mbit/s

95th percentile per-packet one-way delay: 4.391 ms

Loss rate: 0.24%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-07-25 09:01:50

End at: 2018-07-25 09:02:20

Local clock offset: 3.596 ms

Remote clock offset: 2.396 ms

Below is generated by plot.py at 2018-07-25 12:28:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 899.51 Mbit/s

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

Loss rate: 0.08%

-- Flow 1:

Average throughput: 531.71 Mbit/s

95th percentile per-packet one-way delay: 10.155 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 391.17 Mbit/s

95th percentile per-packet one-way delay: 4.264 ms

Loss rate: 0.09%

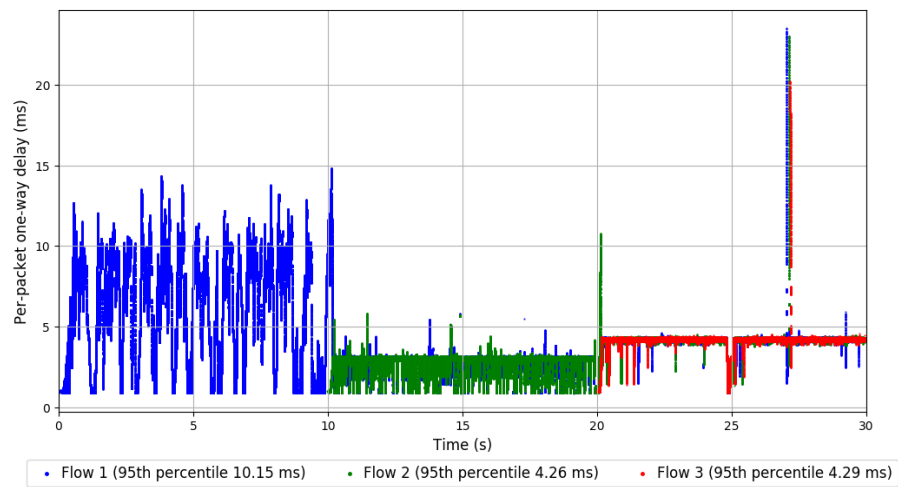
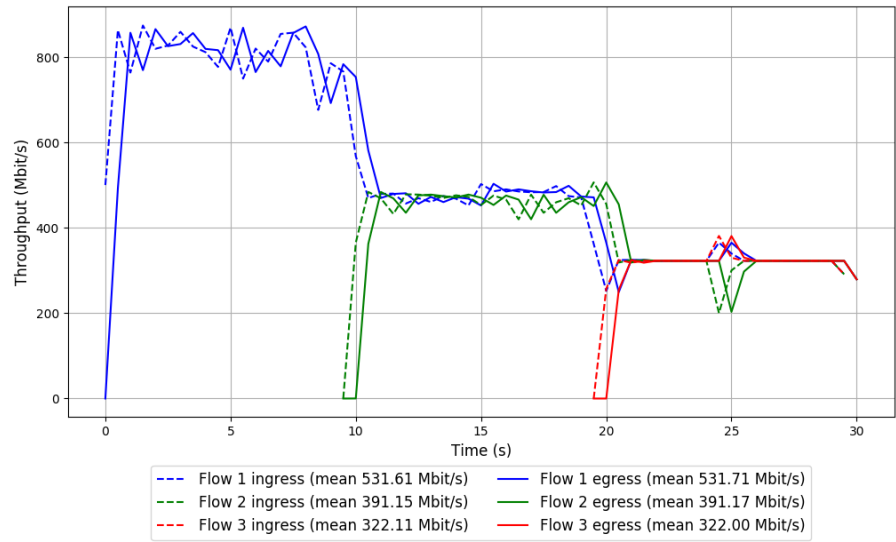
-- Flow 3:

Average throughput: 322.00 Mbit/s

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

Loss rate: 0.23%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-07-25 09:28:42

End at: 2018-07-25 09:29:12

Local clock offset: 3.99 ms

Remote clock offset: 2.442 ms

Below is generated by plot.py at 2018-07-25 12:28:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 900.10 Mbit/s

95th percentile per-packet one-way delay: 10.201 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 531.69 Mbit/s

95th percentile per-packet one-way delay: 10.604 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 392.41 Mbit/s

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

Loss rate: 0.09%

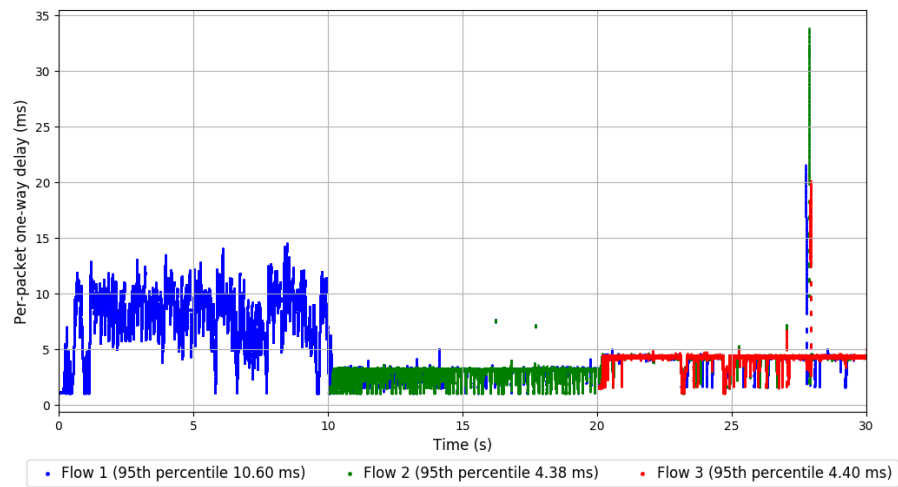
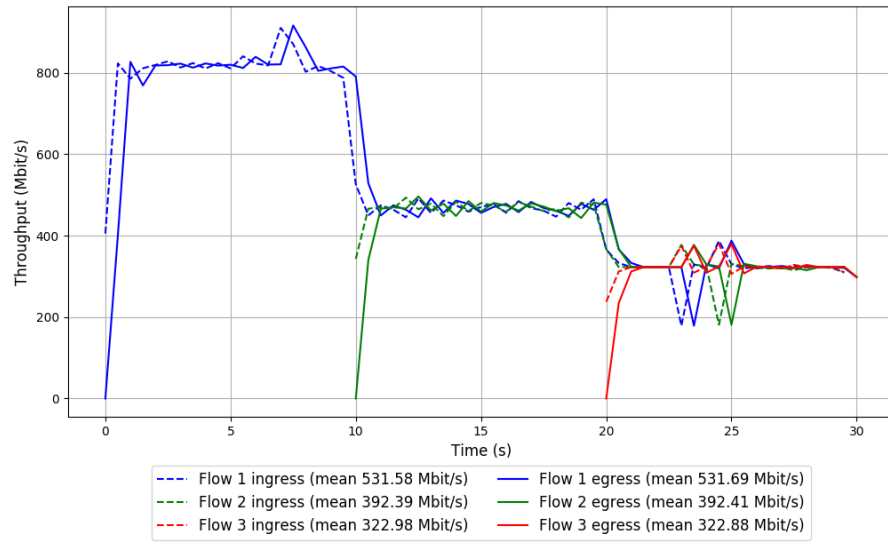
-- Flow 3:

Average throughput: 322.88 Mbit/s

95th percentile per-packet one-way delay: 4.404 ms

Loss rate: 0.23%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-07-25 09:55:35

End at: 2018-07-25 09:56:05

Local clock offset: 3.714 ms

Remote clock offset: 2.199 ms

Below is generated by plot.py at 2018-07-25 12:28:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 898.98 Mbit/s

95th percentile per-packet one-way delay: 10.388 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 526.41 Mbit/s

95th percentile per-packet one-way delay: 10.732 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 397.64 Mbit/s

95th percentile per-packet one-way delay: 4.386 ms

Loss rate: 0.09%

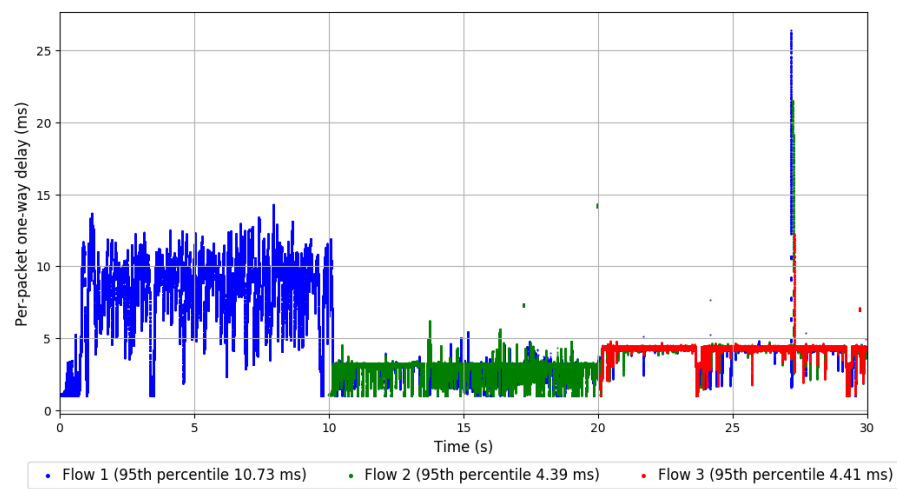
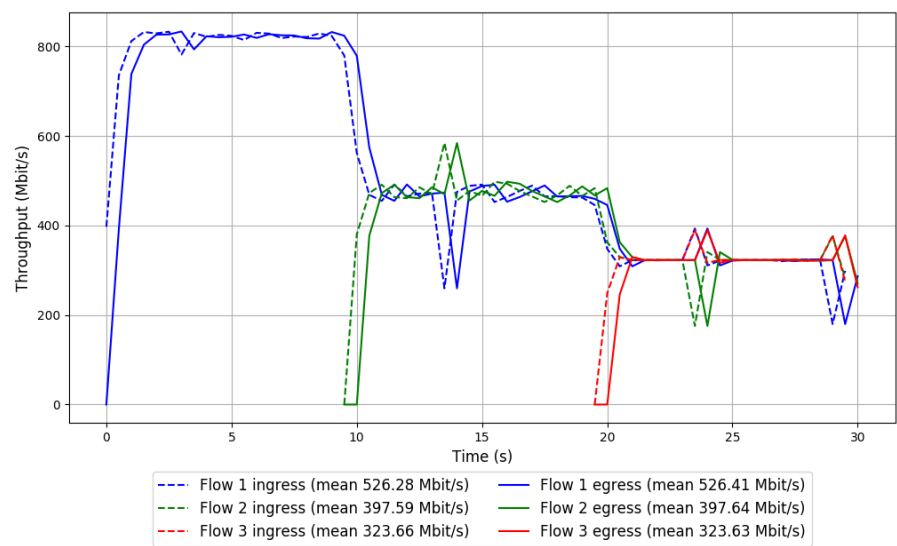
-- Flow 3:

Average throughput: 323.63 Mbit/s

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

Loss rate: 0.23%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-07-25 10:22:28

End at: 2018-07-25 10:22:58

Local clock offset: 4.146 ms

Remote clock offset: 2.099 ms

Below is generated by plot.py at 2018-07-25 12:28:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 891.87 Mbit/s

95th percentile per-packet one-way delay: 10.096 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 524.56 Mbit/s

95th percentile per-packet one-way delay: 10.701 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 390.68 Mbit/s

95th percentile per-packet one-way delay: 4.294 ms

Loss rate: 0.09%

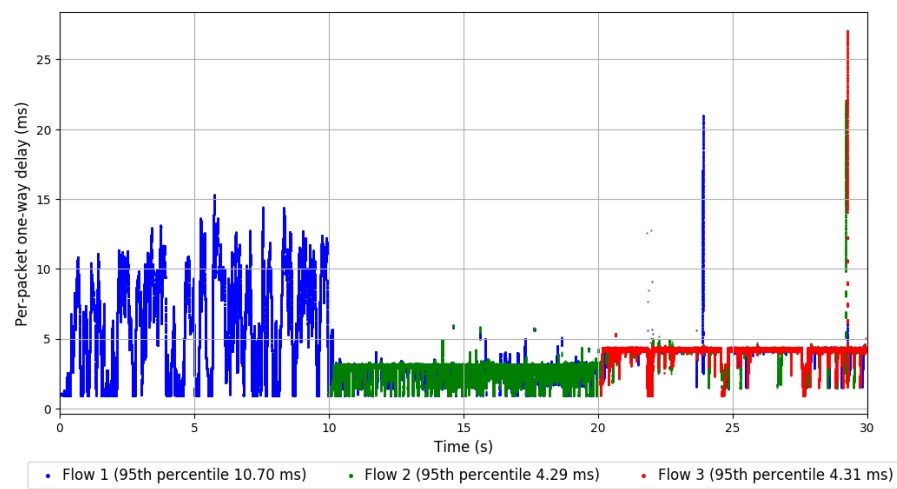
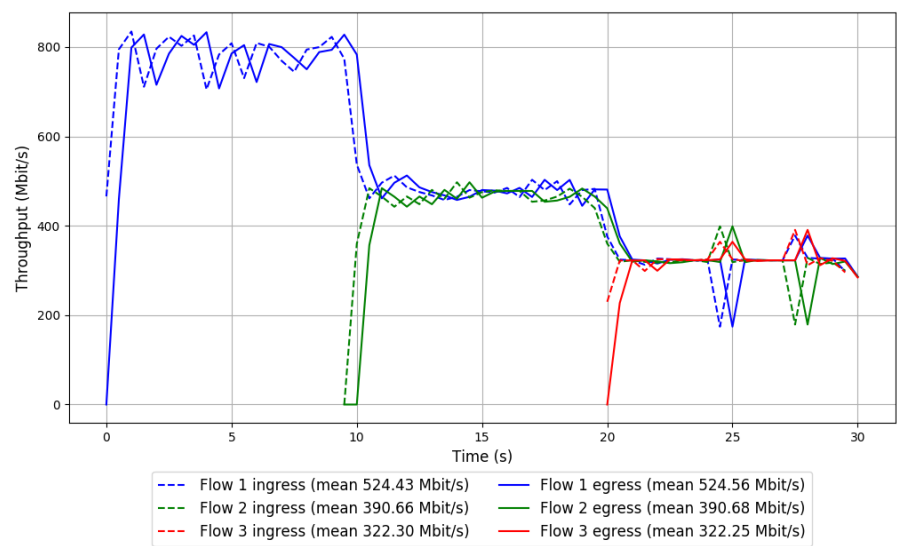
-- Flow 3:

Average throughput: 322.25 Mbit/s

95th percentile per-packet one-way delay: 4.309 ms

Loss rate: 0.23%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-07-25 10:49:17

End at: 2018-07-25 10:49:47

Local clock offset: 4.286 ms

Remote clock offset: 1.885 ms

Below is generated by plot.py at 2018-07-25 12:28:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 898.87 Mbit/s

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

Loss rate: 0.08%

-- Flow 1:

Average throughput: 531.63 Mbit/s

95th percentile per-packet one-way delay: 11.222 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 390.84 Mbit/s

95th percentile per-packet one-way delay: 4.300 ms

Loss rate: 0.10%

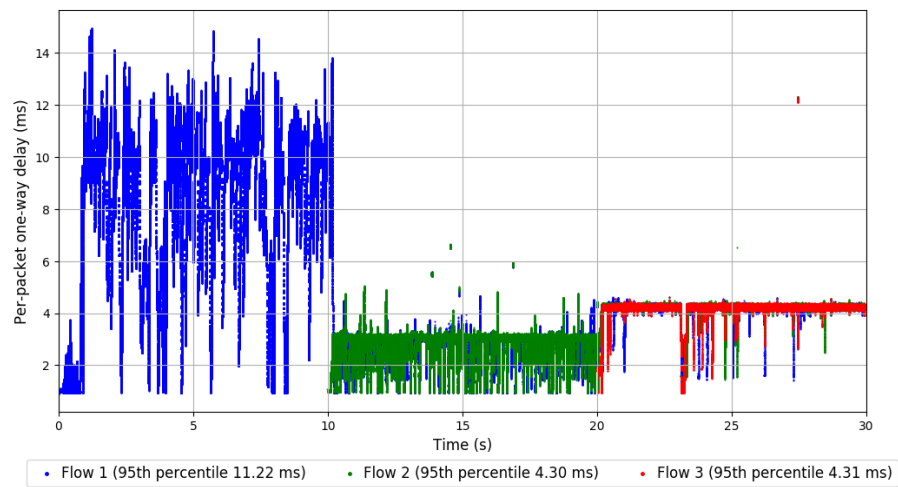
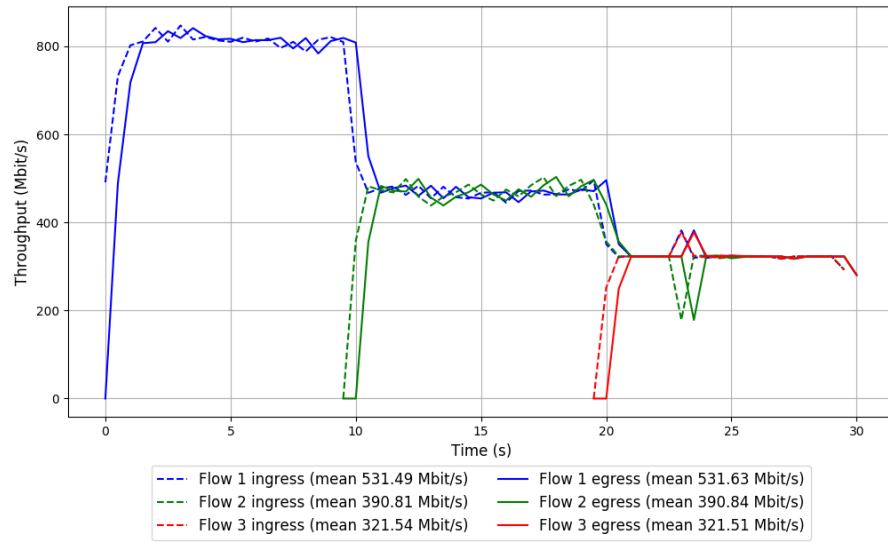
-- Flow 3:

Average throughput: 321.51 Mbit/s

95th percentile per-packet one-way delay: 4.314 ms

Loss rate: 0.23%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-07-25 11:16:11

End at: 2018-07-25 11:16:41

Local clock offset: 4.176 ms

Remote clock offset: 1.829 ms

Below is generated by plot.py at 2018-07-25 12:38:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 901.17 Mbit/s

95th percentile per-packet one-way delay: 9.798 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 533.19 Mbit/s

95th percentile per-packet one-way delay: 10.199 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 391.11 Mbit/s

95th percentile per-packet one-way delay: 4.332 ms

Loss rate: 0.09%

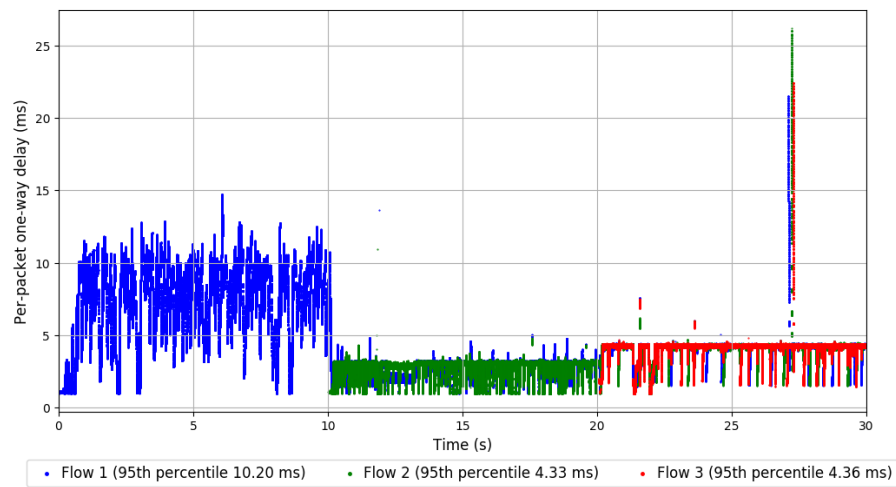
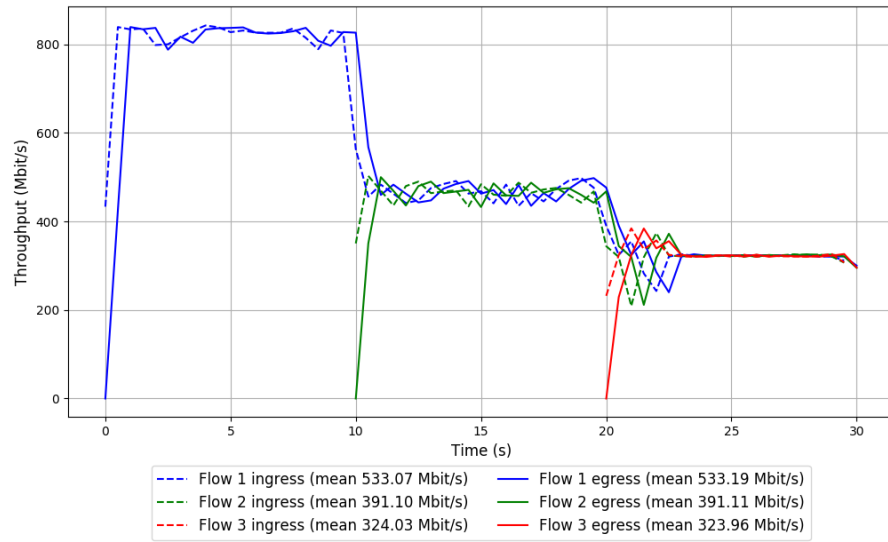
-- Flow 3:

Average throughput: 323.96 Mbit/s

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

Loss rate: 0.23%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-07-25 11:43:03

End at: 2018-07-25 11:43:33

Local clock offset: 3.81 ms

Remote clock offset: 1.572 ms

Below is generated by plot.py at 2018-07-25 12:38:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 899.03 Mbit/s

95th percentile per-packet one-way delay: 9.686 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 529.84 Mbit/s

95th percentile per-packet one-way delay: 10.094 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 393.80 Mbit/s

95th percentile per-packet one-way delay: 4.297 ms

Loss rate: 0.09%

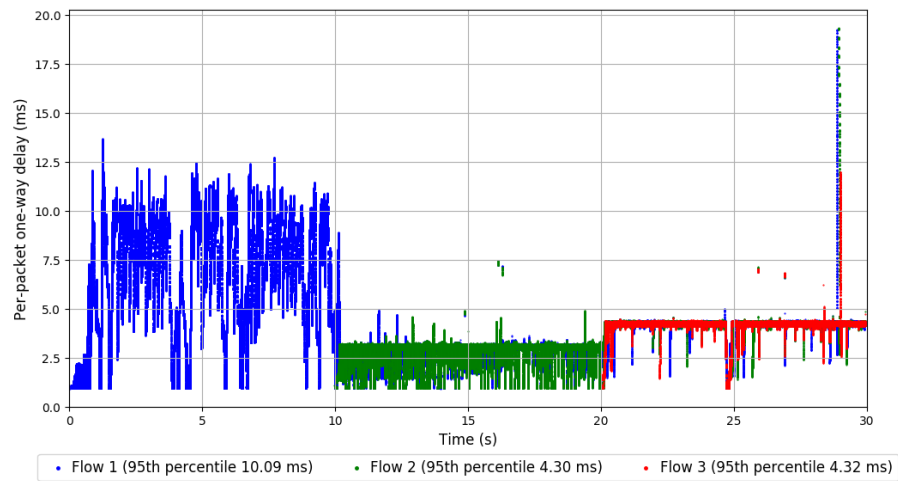
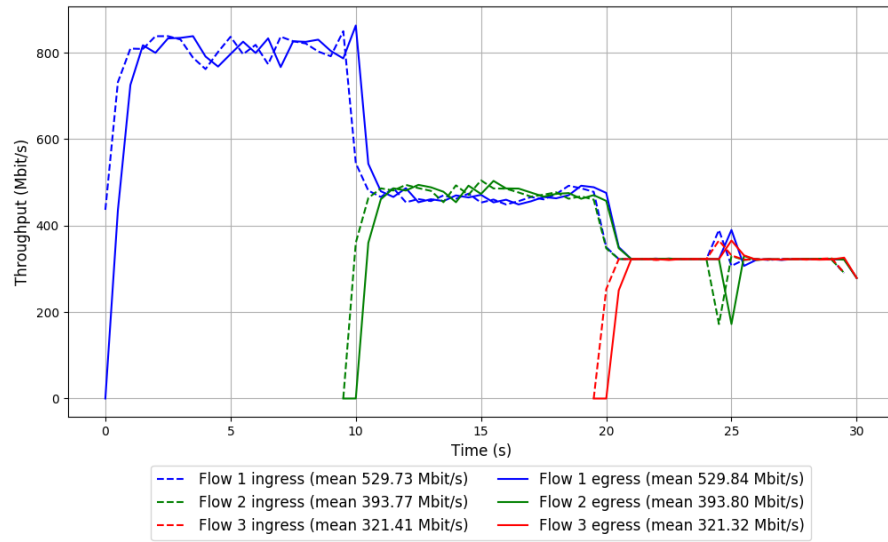
-- Flow 3:

Average throughput: 321.32 Mbit/s

95th percentile per-packet one-way delay: 4.316 ms

Loss rate: 0.22%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-07-25 07:39:17

End at: 2018-07-25 07:39:47

Local clock offset: 3.435 ms

Remote clock offset: 0.924 ms

Below is generated by plot.py at 2018-07-25 12:38:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 506.67 Mbit/s

95th percentile per-packet one-way delay: 1.326 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 298.00 Mbit/s

95th percentile per-packet one-way delay: 1.171 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 242.43 Mbit/s

95th percentile per-packet one-way delay: 1.651 ms

Loss rate: 0.02%

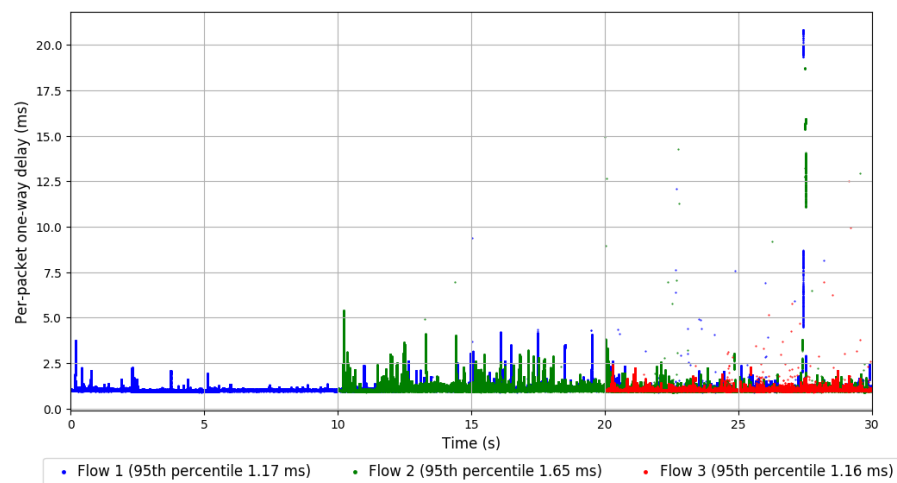
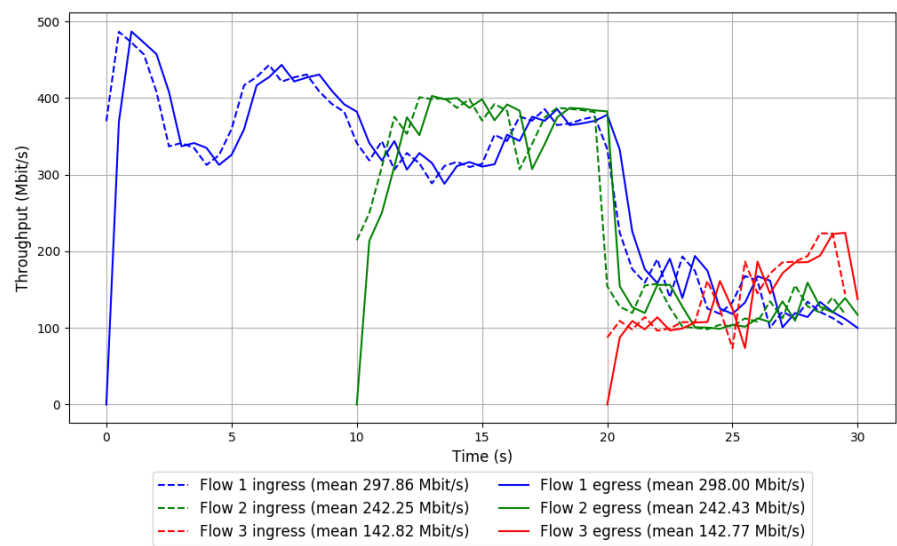
-- Flow 3:

Average throughput: 142.77 Mbit/s

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

Loss rate: 0.23%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-07-25 08:06:09

End at: 2018-07-25 08:06:39

Local clock offset: 3.25 ms

Remote clock offset: 1.681 ms

Below is generated by plot.py at 2018-07-25 12:38:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 495.25 Mbit/s

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

Loss rate: 0.07%

-- Flow 1:

Average throughput: 307.98 Mbit/s

95th percentile per-packet one-way delay: 1.101 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 219.34 Mbit/s

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

Loss rate: 0.03%

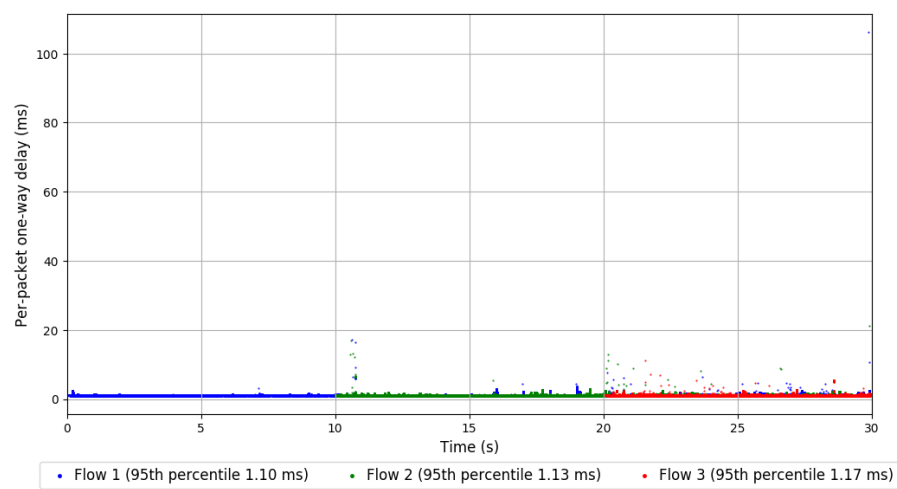
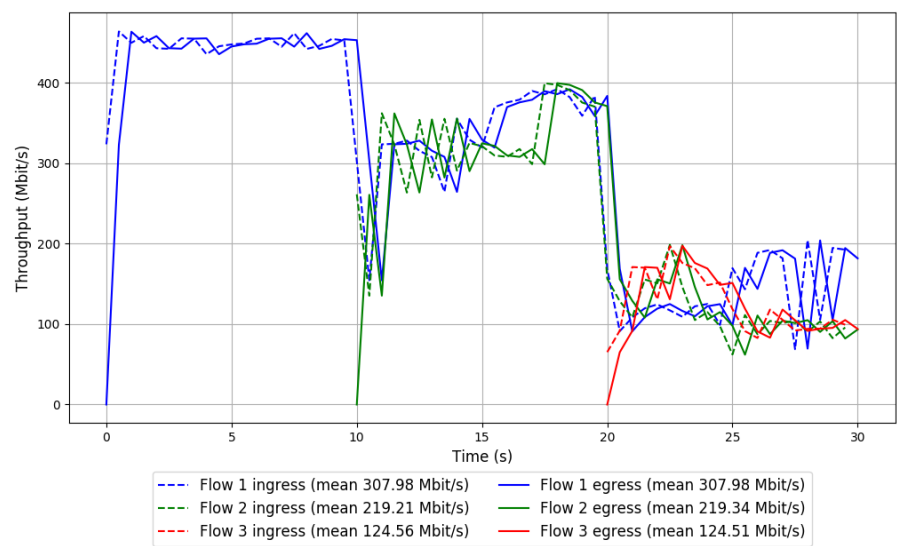
-- Flow 3:

Average throughput: 124.51 Mbit/s

95th percentile per-packet one-way delay: 1.172 ms

Loss rate: 0.23%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-07-25 08:33:00

End at: 2018-07-25 08:33:30

Local clock offset: 3.255 ms

Remote clock offset: 2.179 ms

Below is generated by plot.py at 2018-07-25 12:39:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 517.17 Mbit/s

95th percentile per-packet one-way delay: 1.316 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 304.14 Mbit/s

95th percentile per-packet one-way delay: 1.381 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 262.28 Mbit/s

95th percentile per-packet one-way delay: 1.245 ms

Loss rate: 0.06%

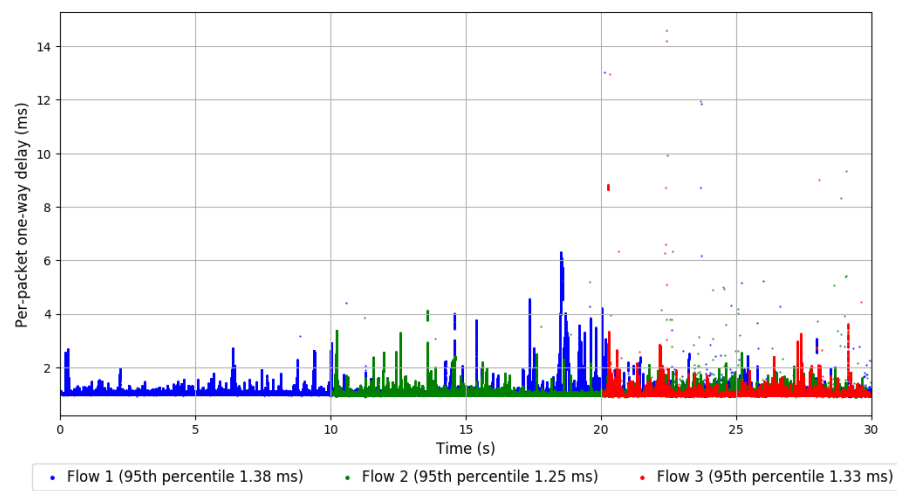
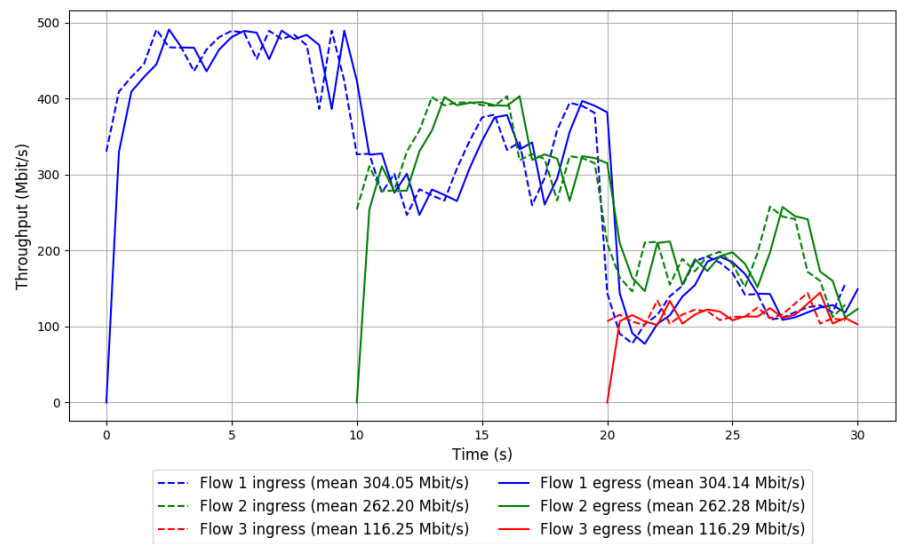
-- Flow 3:

Average throughput: 116.29 Mbit/s

95th percentile per-packet one-way delay: 1.332 ms

Loss rate: 0.22%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-07-25 09:00:01

End at: 2018-07-25 09:00:31

Local clock offset: 3.583 ms

Remote clock offset: 2.406 ms

Below is generated by plot.py at 2018-07-25 12:39:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 505.99 Mbit/s

95th percentile per-packet one-way delay: 1.028 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 316.12 Mbit/s

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

Loss rate: 0.02%

-- Flow 2:

Average throughput: 217.30 Mbit/s

95th percentile per-packet one-way delay: 0.980 ms

Loss rate: 0.05%

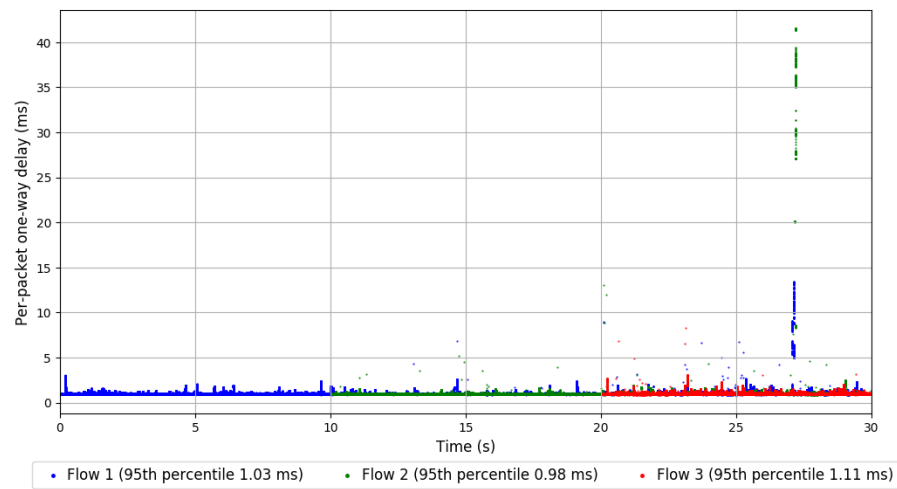
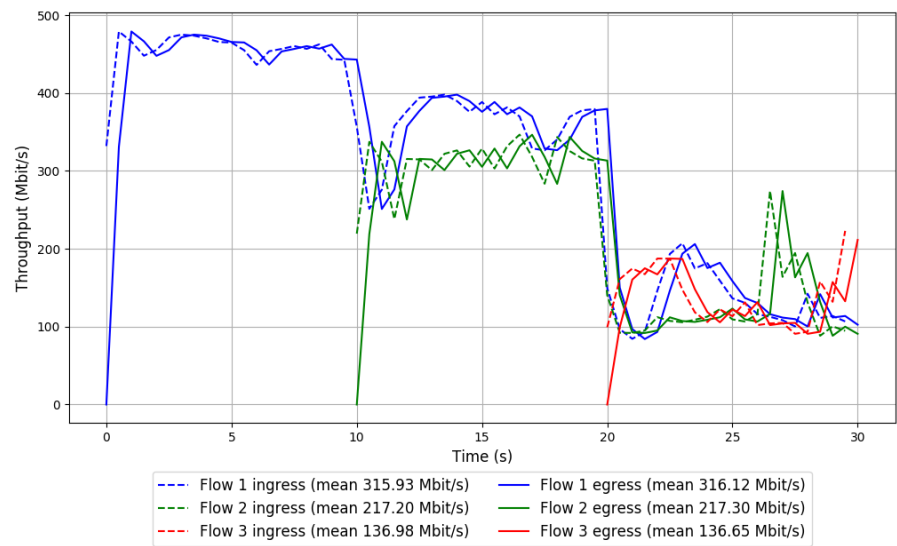
-- Flow 3:

Average throughput: 136.65 Mbit/s

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

Loss rate: 0.43%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-07-25 09:26:54

End at: 2018-07-25 09:27:24

Local clock offset: 3.989 ms

Remote clock offset: 2.449 ms

Below is generated by plot.py at 2018-07-25 12:39:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 508.34 Mbit/s

95th percentile per-packet one-way delay: 1.137 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 310.06 Mbit/s

95th percentile per-packet one-way delay: 1.136 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 216.29 Mbit/s

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

Loss rate: 0.10%

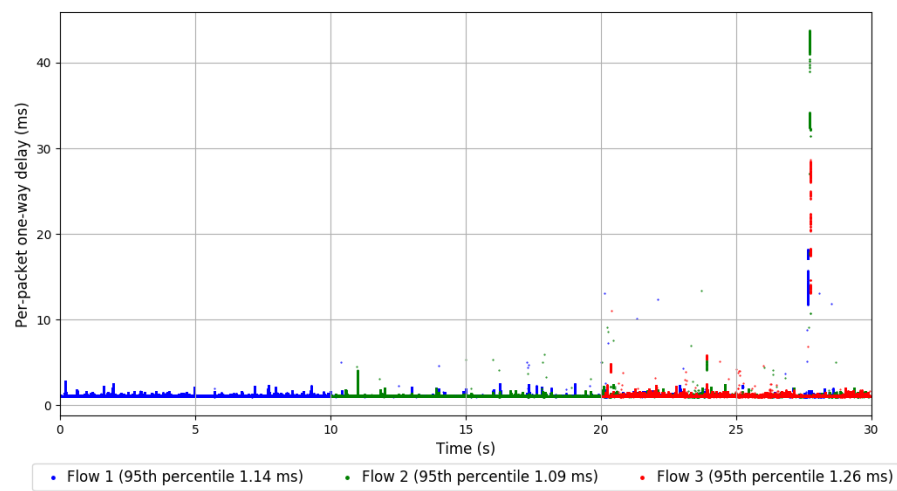
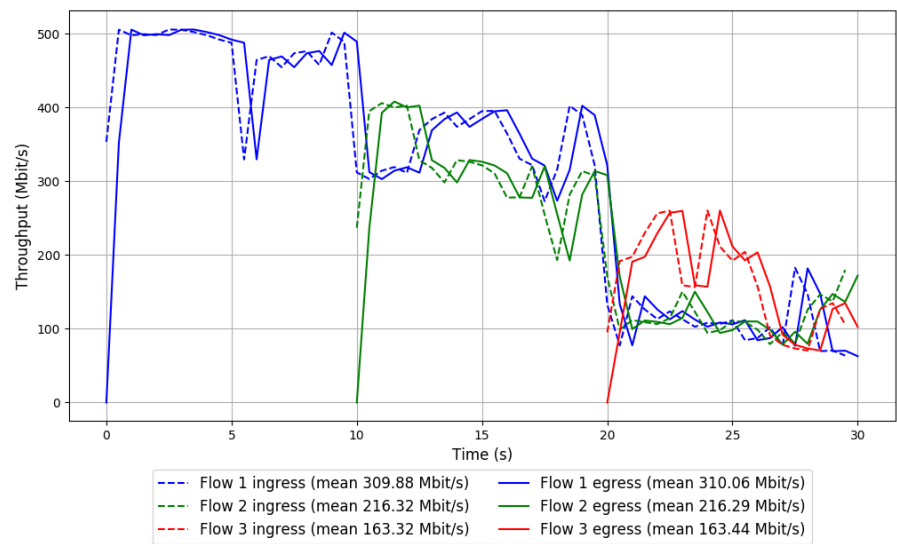
-- Flow 3:

Average throughput: 163.44 Mbit/s

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

Loss rate: 0.11%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-07-25 09:53:48

End at: 2018-07-25 09:54:18

Local clock offset: 3.711 ms

Remote clock offset: 2.263 ms

Below is generated by plot.py at 2018-07-25 12:39:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 480.91 Mbit/s

95th percentile per-packet one-way delay: 1.101 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 283.16 Mbit/s

95th percentile per-packet one-way delay: 1.105 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 242.98 Mbit/s

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

Loss rate: 0.07%

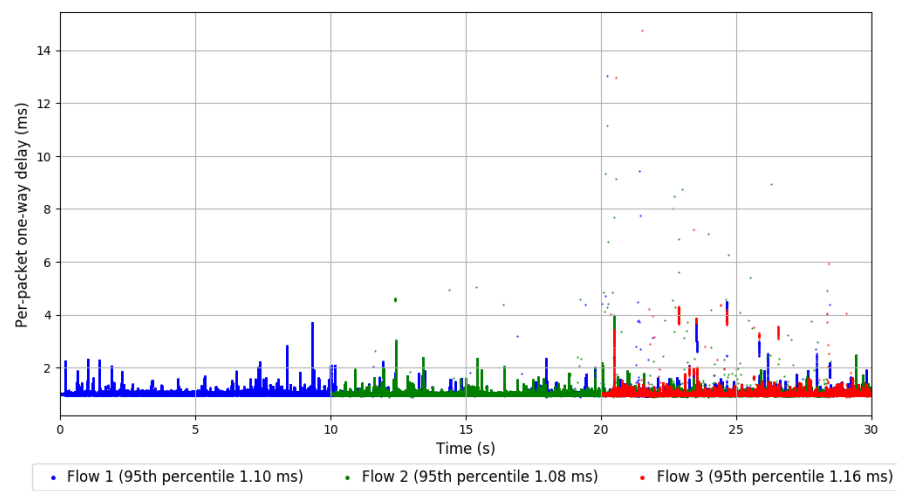
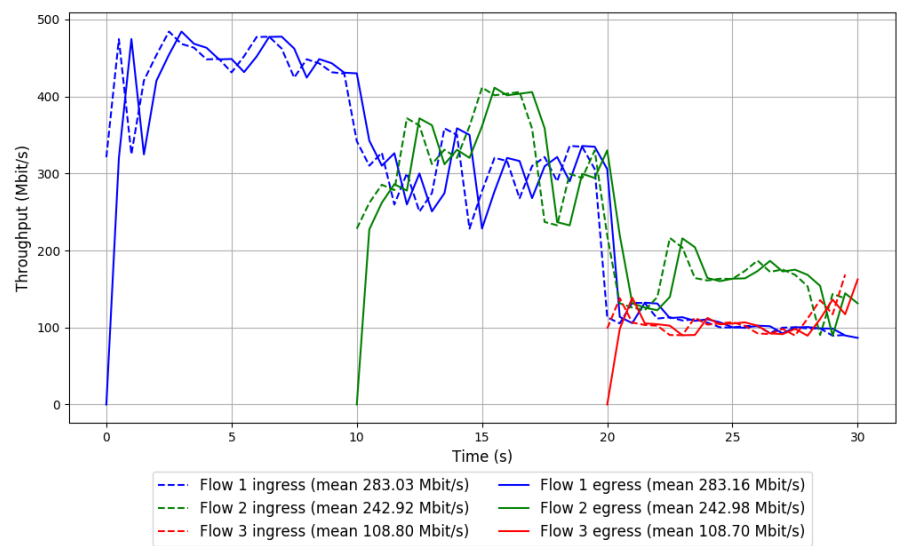
-- Flow 3:

Average throughput: 108.70 Mbit/s

95th percentile per-packet one-way delay: 1.164 ms

Loss rate: 0.29%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-07-25 10:20:39

End at: 2018-07-25 10:21:09

Local clock offset: 4.052 ms

Remote clock offset: 2.043 ms

Below is generated by plot.py at 2018-07-25 12:48:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 502.10 Mbit/s

95th percentile per-packet one-way delay: 1.276 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 308.93 Mbit/s

95th percentile per-packet one-way delay: 1.215 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 221.12 Mbit/s

95th percentile per-packet one-way delay: 1.461 ms

Loss rate: 0.05%

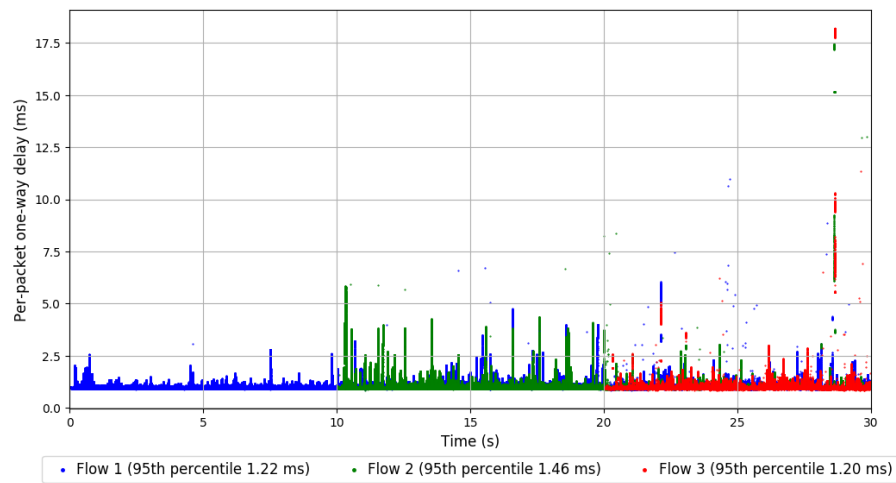
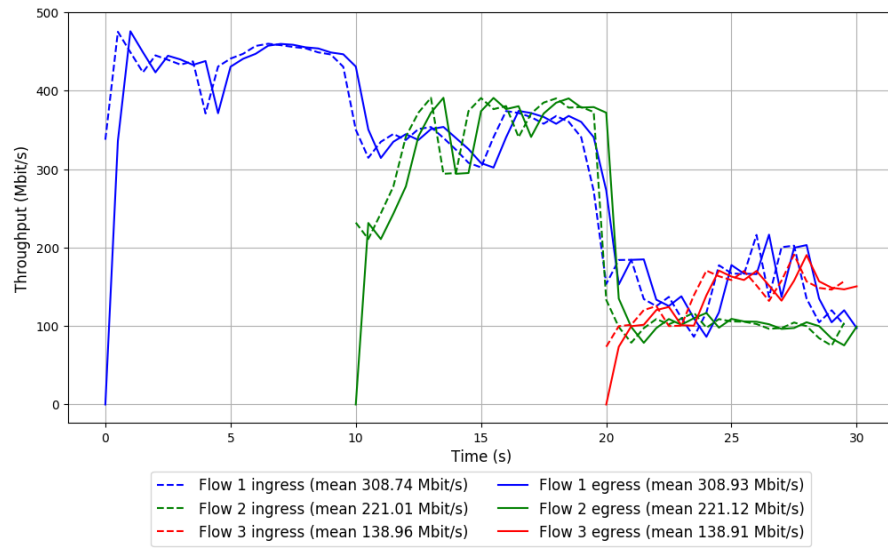
-- Flow 3:

Average throughput: 138.91 Mbit/s

95th percentile per-packet one-way delay: 1.197 ms

Loss rate: 0.24%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-07-25 10:47:29

End at: 2018-07-25 10:47:59

Local clock offset: 4.353 ms

Remote clock offset: 1.933 ms

Below is generated by plot.py at 2018-07-25 12:48:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 489.20 Mbit/s

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

Loss rate: 0.03%

-- Flow 1:

Average throughput: 311.66 Mbit/s

95th percentile per-packet one-way delay: 1.093 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 210.85 Mbit/s

95th percentile per-packet one-way delay: 1.079 ms

Loss rate: 0.05%

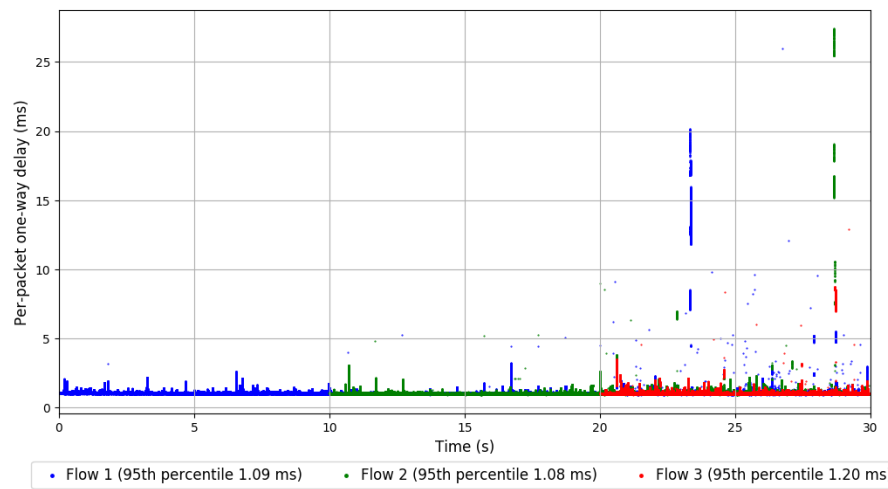
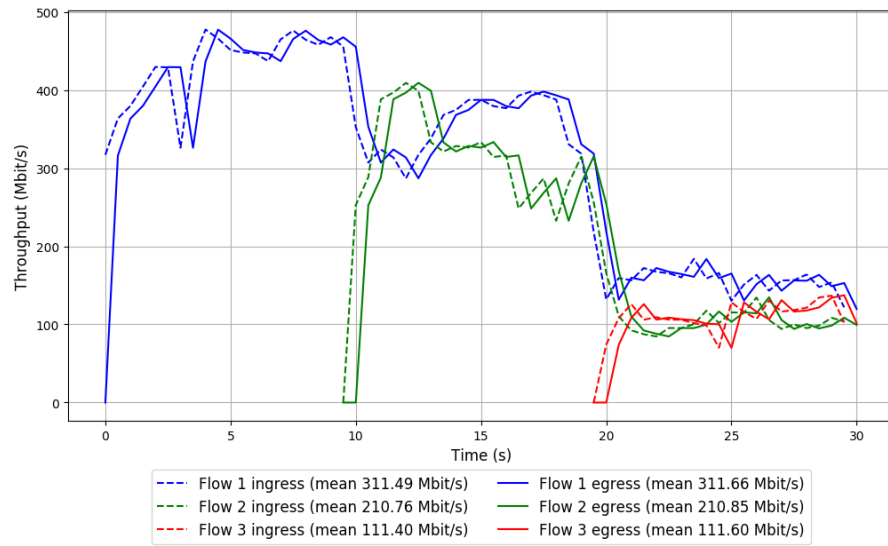
-- Flow 3:

Average throughput: 111.60 Mbit/s

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

Loss rate: 0.04%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-07-25 11:14:23

End at: 2018-07-25 11:14:53

Local clock offset: 4.202 ms

Remote clock offset: 1.8 ms

Below is generated by plot.py at 2018-07-25 12:48:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 490.34 Mbit/s

95th percentile per-packet one-way delay: 1.196 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 305.40 Mbit/s

95th percentile per-packet one-way delay: 1.241 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 213.65 Mbit/s

95th percentile per-packet one-way delay: 1.107 ms

Loss rate: 0.08%

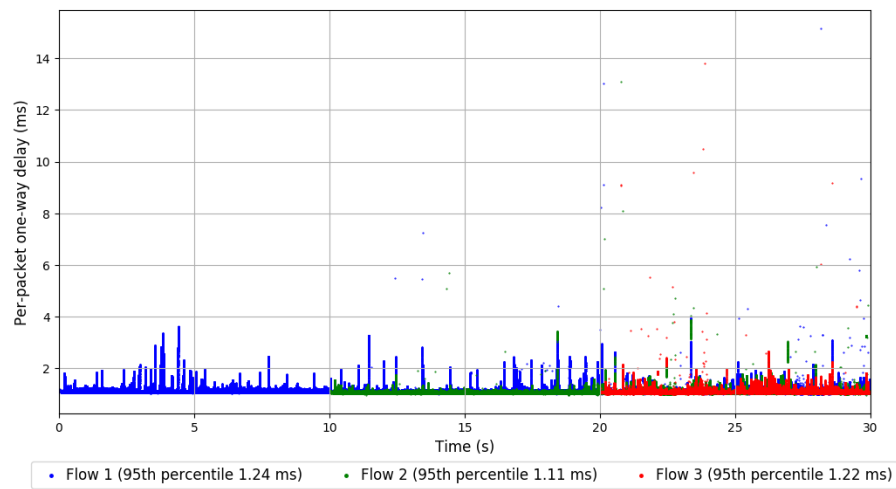
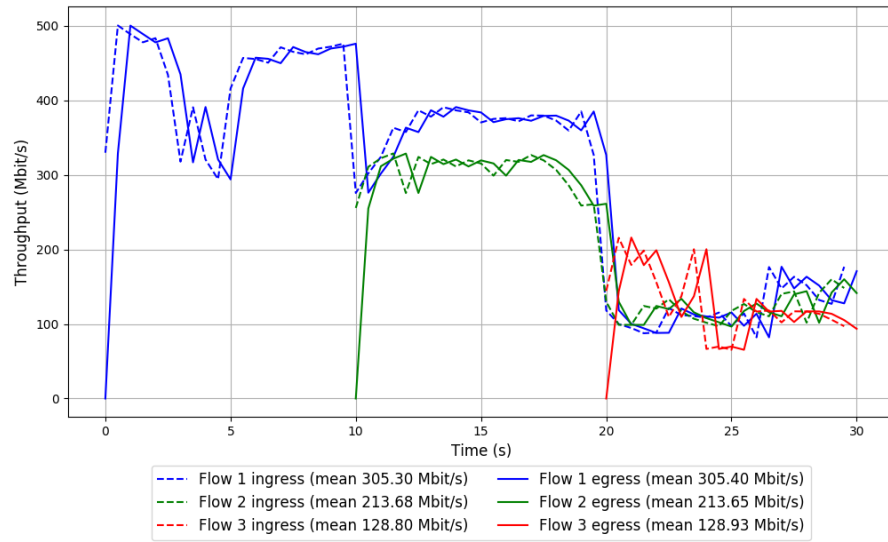
-- Flow 3:

Average throughput: 128.93 Mbit/s

95th percentile per-packet one-way delay: 1.217 ms

Loss rate: 0.15%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-07-25 11:41:15

End at: 2018-07-25 11:41:45

Local clock offset: 3.927 ms

Remote clock offset: 1.603 ms

Below is generated by plot.py at 2018-07-25 12:48:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 497.81 Mbit/s

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

Loss rate: 0.05%

-- Flow 1:

Average throughput: 309.47 Mbit/s

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

Loss rate: 0.02%

-- Flow 2:

Average throughput: 221.60 Mbit/s

95th percentile per-packet one-way delay: 1.155 ms

Loss rate: 0.04%

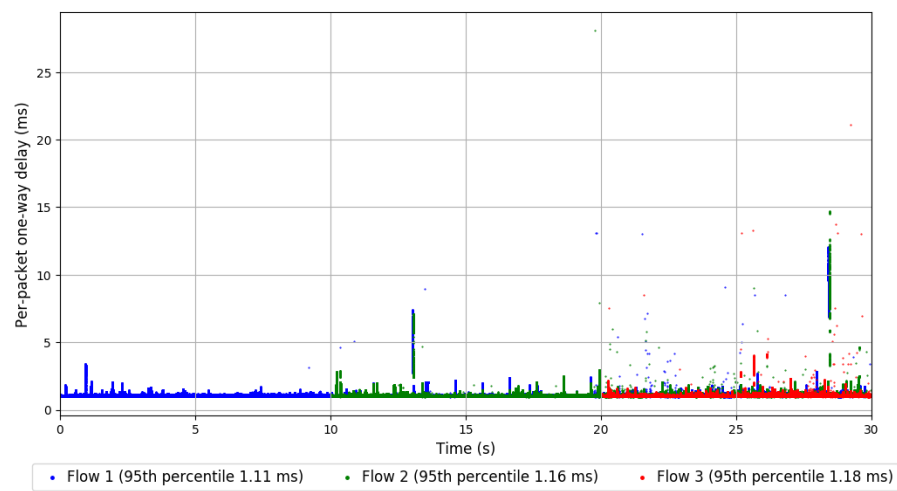
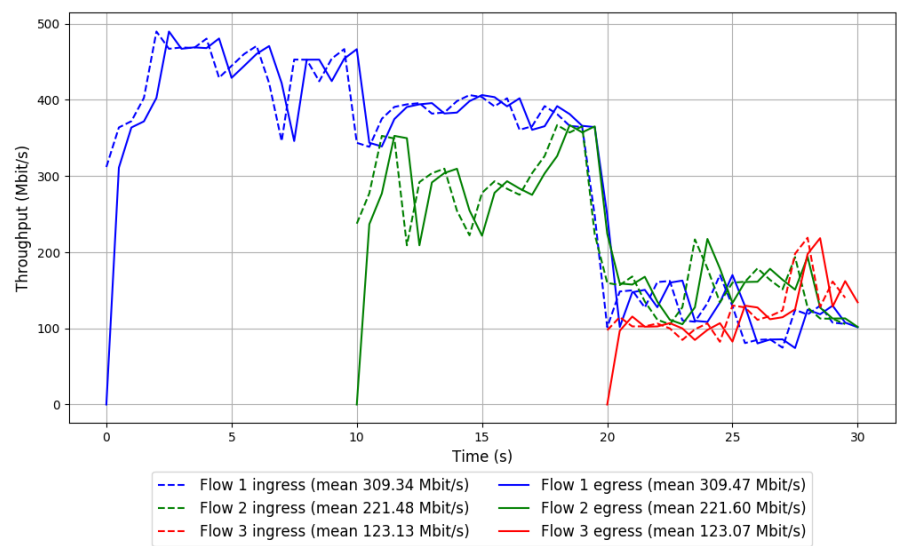
-- Flow 3:

Average throughput: 123.07 Mbit/s

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

Loss rate: 0.25%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-07-25 07:58:16

End at: 2018-07-25 07:58:46

Local clock offset: 3.35 ms

Remote clock offset: 1.504 ms

Below is generated by plot.py at 2018-07-25 12:48:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 790.59 Mbit/s

95th percentile per-packet one-way delay: 4.369 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 420.93 Mbit/s

95th percentile per-packet one-way delay: 4.345 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 395.59 Mbit/s

95th percentile per-packet one-way delay: 4.369 ms

Loss rate: 0.09%

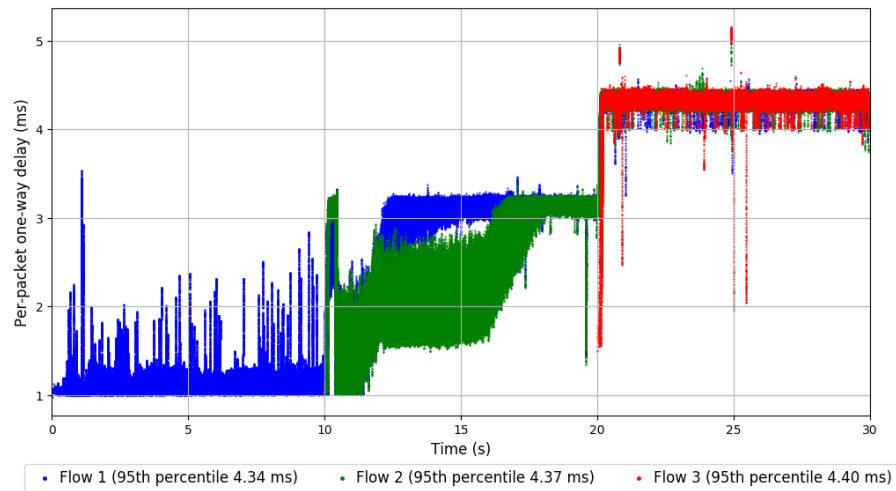
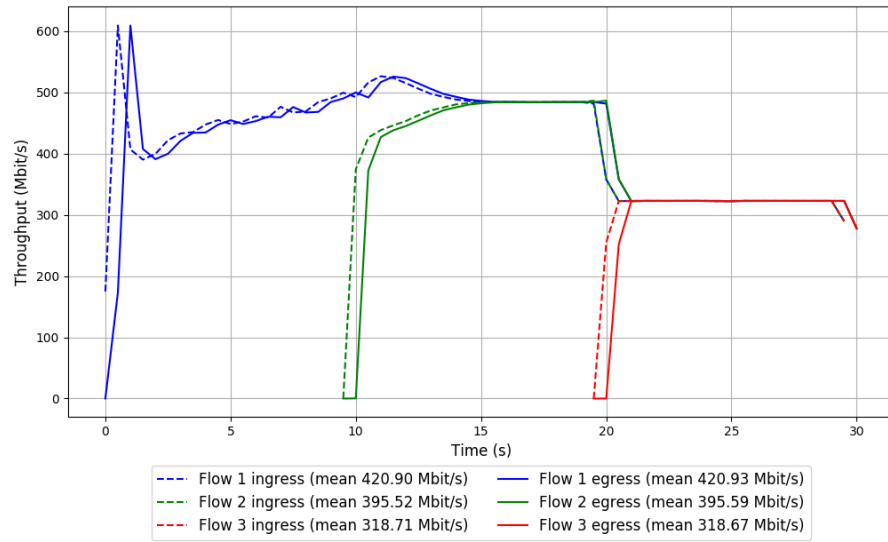
-- Flow 3:

Average throughput: 318.67 Mbit/s

95th percentile per-packet one-way delay: 4.402 ms

Loss rate: 0.23%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-07-25 08:25:07

End at: 2018-07-25 08:25:37

Local clock offset: 3.177 ms

Remote clock offset: 2.073 ms

Below is generated by plot.py at 2018-07-25 12:48:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 809.37 Mbit/s

95th percentile per-packet one-way delay: 4.389 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 433.25 Mbit/s

95th percentile per-packet one-way delay: 9.097 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 406.12 Mbit/s

95th percentile per-packet one-way delay: 4.365 ms

Loss rate: 0.09%

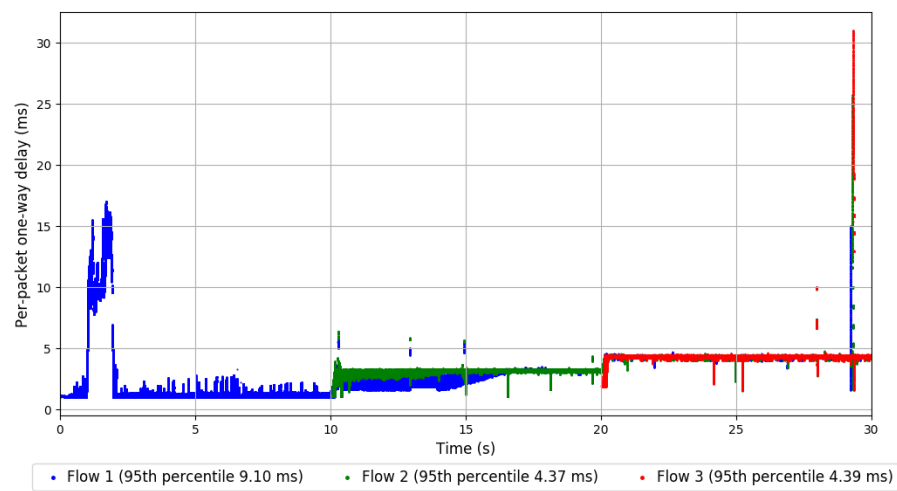
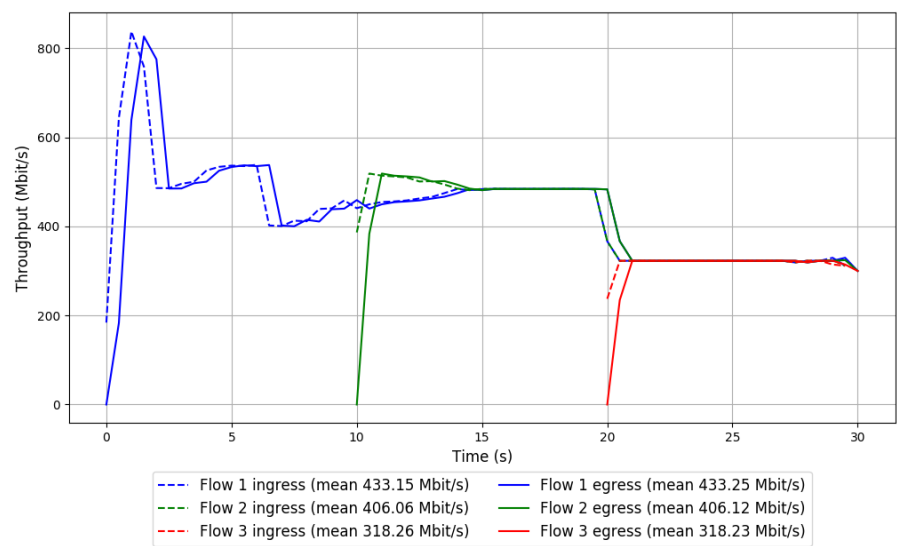
-- Flow 3:

Average throughput: 318.23 Mbit/s

95th percentile per-packet one-way delay: 4.389 ms

Loss rate: 0.23%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-07-25 08:52:03

End at: 2018-07-25 08:52:33

Local clock offset: 3.676 ms

Remote clock offset: 2.4 ms

Below is generated by plot.py at 2018-07-25 12:48:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 831.66 Mbit/s

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

Loss rate: 0.09%

-- Flow 1:

Average throughput: 458.46 Mbit/s

95th percentile per-packet one-way delay: 4.299 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 401.56 Mbit/s

95th percentile per-packet one-way delay: 4.328 ms

Loss rate: 0.09%

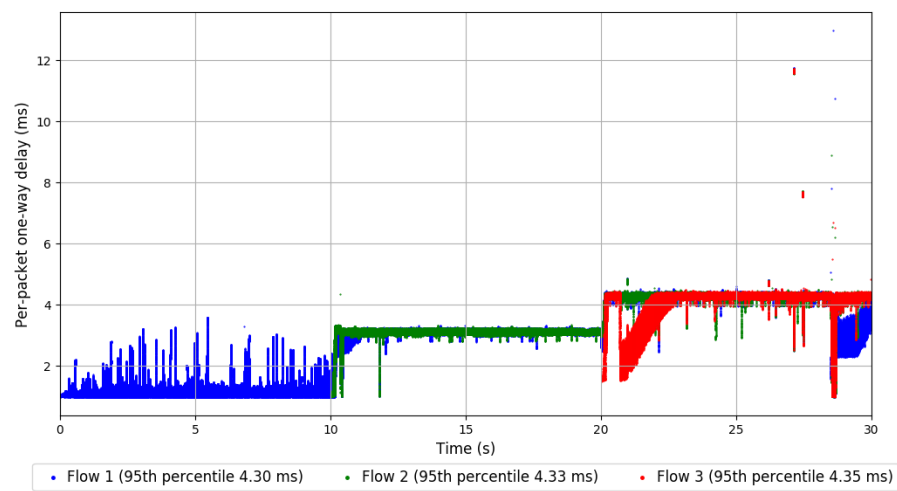
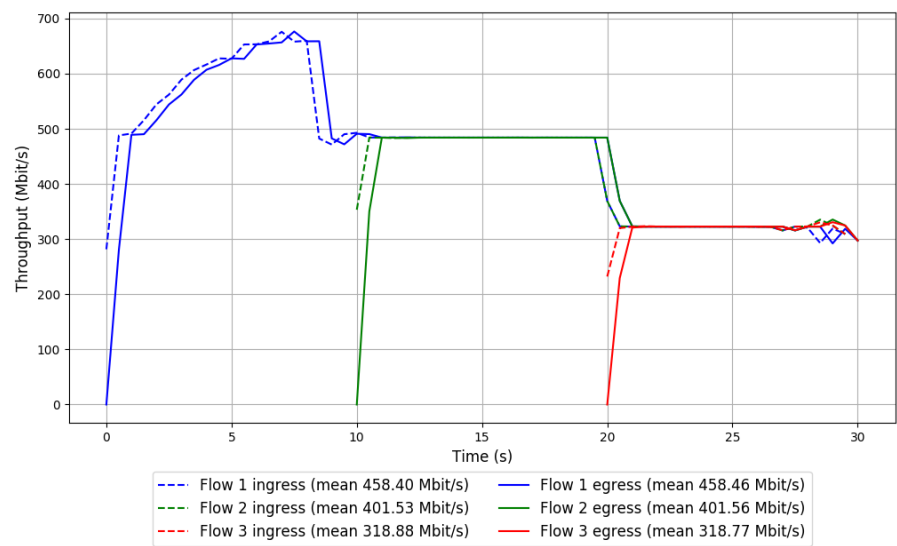
-- Flow 3:

Average throughput: 318.77 Mbit/s

95th percentile per-packet one-way delay: 4.352 ms

Loss rate: 0.23%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-07-25 09:18:55

End at: 2018-07-25 09:19:25

Local clock offset: 3.873 ms

Remote clock offset: 2.504 ms

Below is generated by plot.py at 2018-07-25 12:48:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 814.93 Mbit/s

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

Loss rate: 0.09%

-- Flow 1:

Average throughput: 442.28 Mbit/s

95th percentile per-packet one-way delay: 7.402 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 401.13 Mbit/s

95th percentile per-packet one-way delay: 4.312 ms

Loss rate: 0.09%

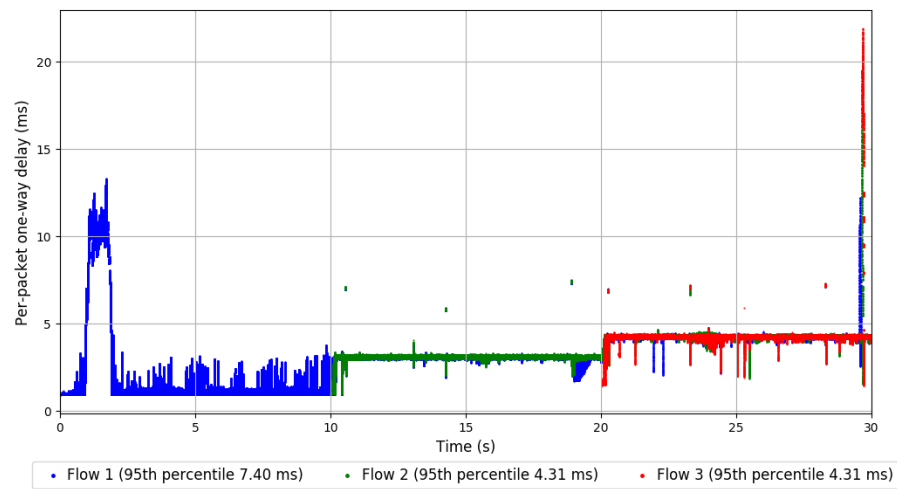
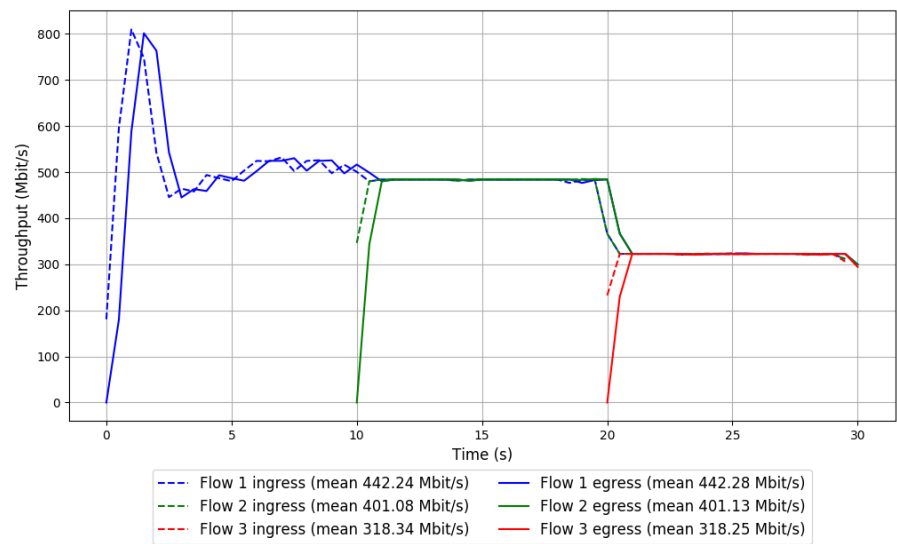
-- Flow 3:

Average throughput: 318.25 Mbit/s

95th percentile per-packet one-way delay: 4.313 ms

Loss rate: 0.23%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-07-25 09:45:51

End at: 2018-07-25 09:46:21

Local clock offset: 3.659 ms

Remote clock offset: 2.373 ms

Below is generated by plot.py at 2018-07-25 12:56:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 825.51 Mbit/s

95th percentile per-packet one-way delay: 4.241 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 460.21 Mbit/s

95th percentile per-packet one-way delay: 8.227 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 389.76 Mbit/s

95th percentile per-packet one-way delay: 4.226 ms

Loss rate: 0.09%

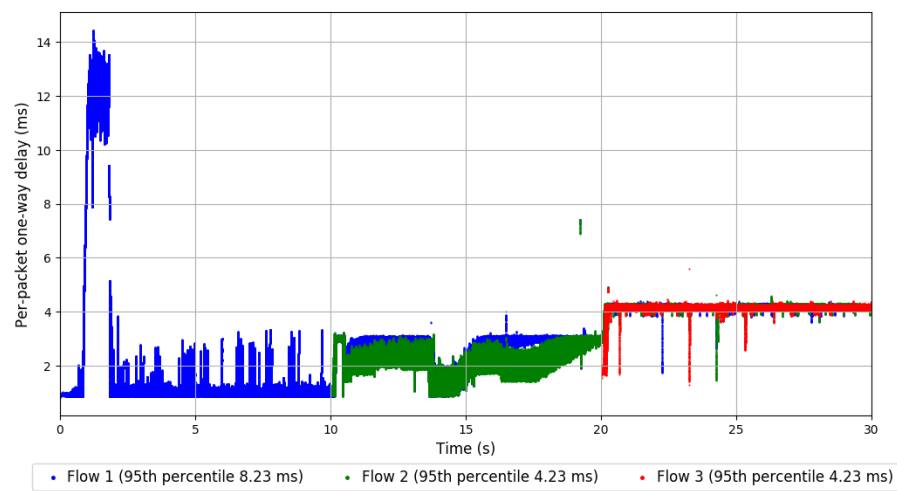
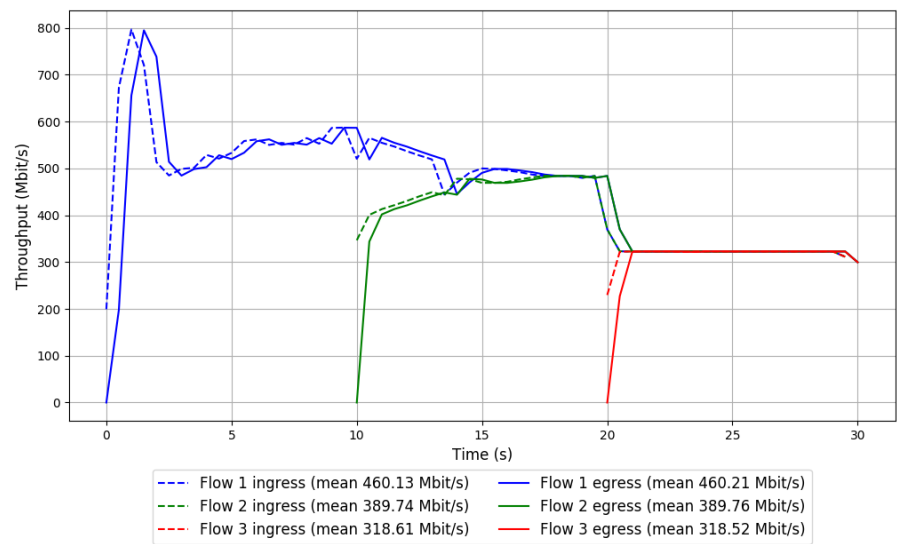
-- Flow 3:

Average throughput: 318.52 Mbit/s

95th percentile per-packet one-way delay: 4.232 ms

Loss rate: 0.23%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-07-25 10:12:44

End at: 2018-07-25 10:13:14

Local clock offset: 4.07 ms

Remote clock offset: 2.157 ms

Below is generated by plot.py at 2018-07-25 12:56:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 858.40 Mbit/s

95th percentile per-packet one-way delay: 12.889 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 492.48 Mbit/s

95th percentile per-packet one-way delay: 13.351 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 391.01 Mbit/s

95th percentile per-packet one-way delay: 4.304 ms

Loss rate: 0.10%

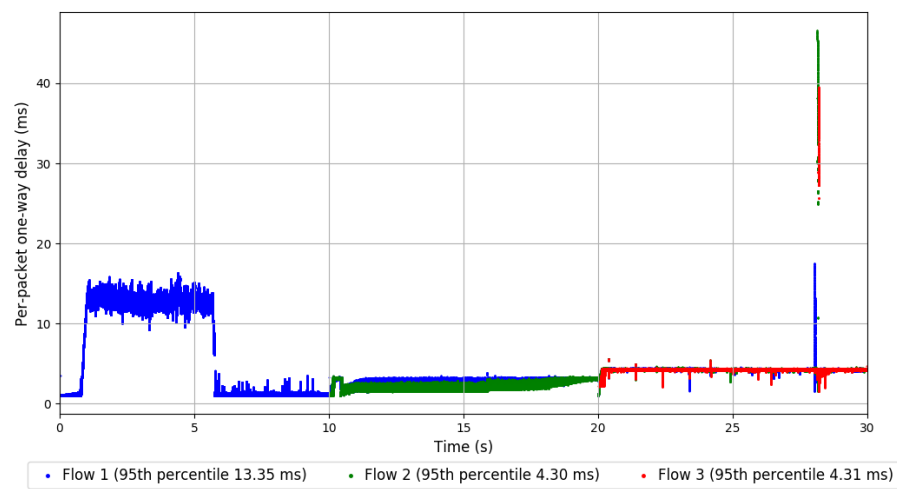
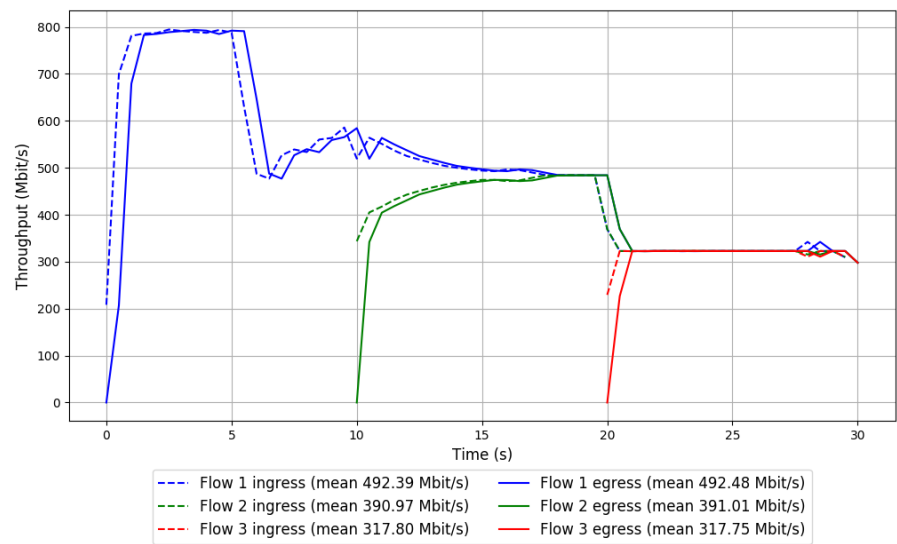
-- Flow 3:

Average throughput: 317.75 Mbit/s

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

Loss rate: 0.24%

Run 6: Report of TCP Cubic — Data Link

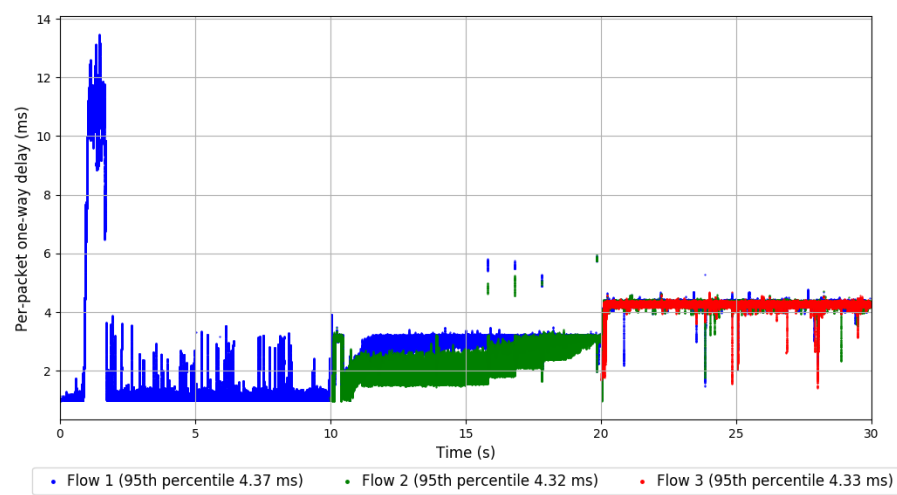
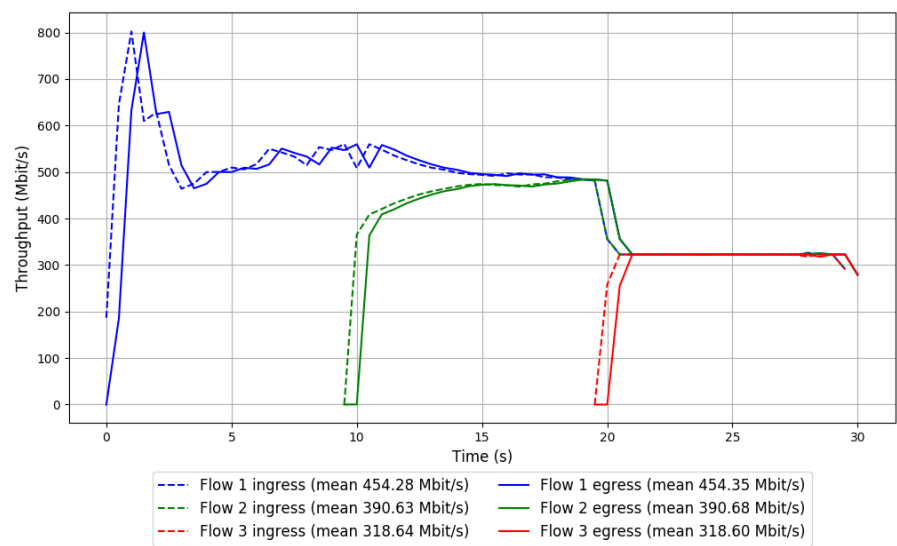


Run 7: Statistics of TCP Cubic

Start at: 2018-07-25 10:39:31
End at: 2018-07-25 10:40:01
Local clock offset: 4.192 ms
Remote clock offset: 1.922 ms

Below is generated by plot.py at 2018-07-25 12:56:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 820.67 Mbit/s
95th percentile per-packet one-way delay: 4.336 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 454.35 Mbit/s
95th percentile per-packet one-way delay: 4.372 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 390.68 Mbit/s
95th percentile per-packet one-way delay: 4.316 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 318.60 Mbit/s
95th percentile per-packet one-way delay: 4.330 ms
Loss rate: 0.23%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-07-25 11:06:25

End at: 2018-07-25 11:06:55

Local clock offset: 4.283 ms

Remote clock offset: 1.819 ms

Below is generated by plot.py at 2018-07-25 12:57:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 859.05 Mbit/s

95th percentile per-packet one-way delay: 12.099 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 473.46 Mbit/s

95th percentile per-packet one-way delay: 12.691 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 420.44 Mbit/s

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

Loss rate: 0.08%

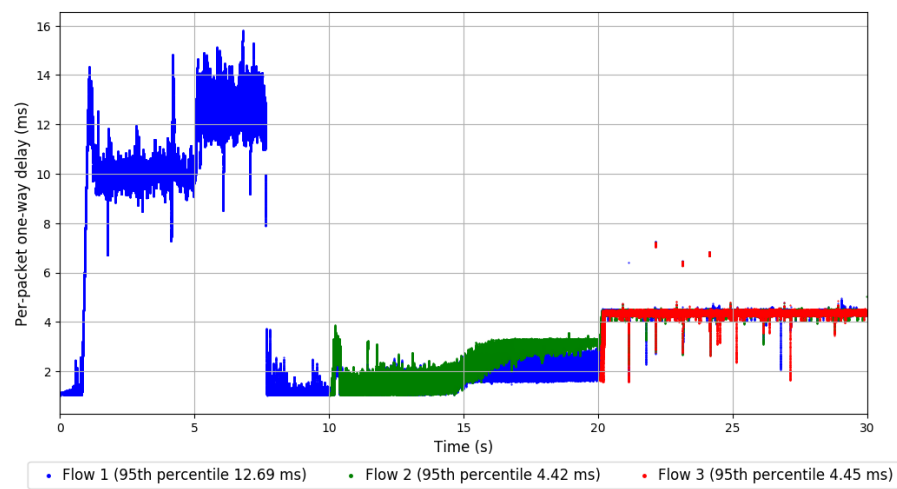
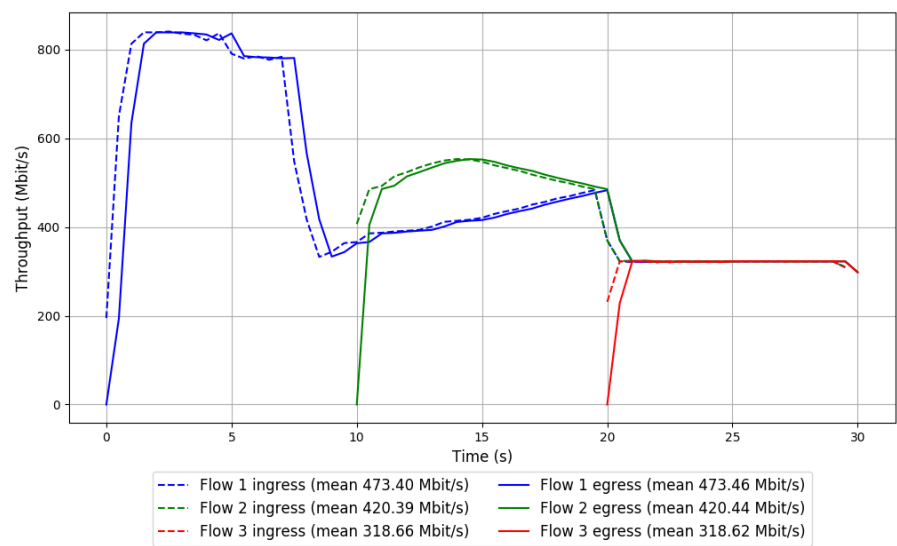
-- Flow 3:

Average throughput: 318.62 Mbit/s

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

Loss rate: 0.22%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-07-25 11:33:21

End at: 2018-07-25 11:33:51

Local clock offset: 4.22 ms

Remote clock offset: 1.706 ms

Below is generated by plot.py at 2018-07-25 12:57:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 797.08 Mbit/s

95th percentile per-packet one-way delay: 4.423 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 430.88 Mbit/s

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

Loss rate: 0.06%

-- Flow 2:

Average throughput: 391.48 Mbit/s

95th percentile per-packet one-way delay: 4.421 ms

Loss rate: 0.10%

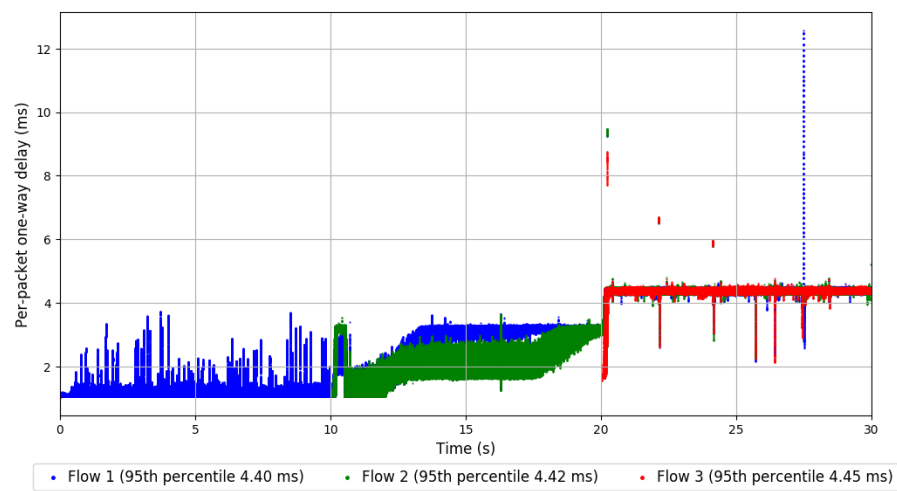
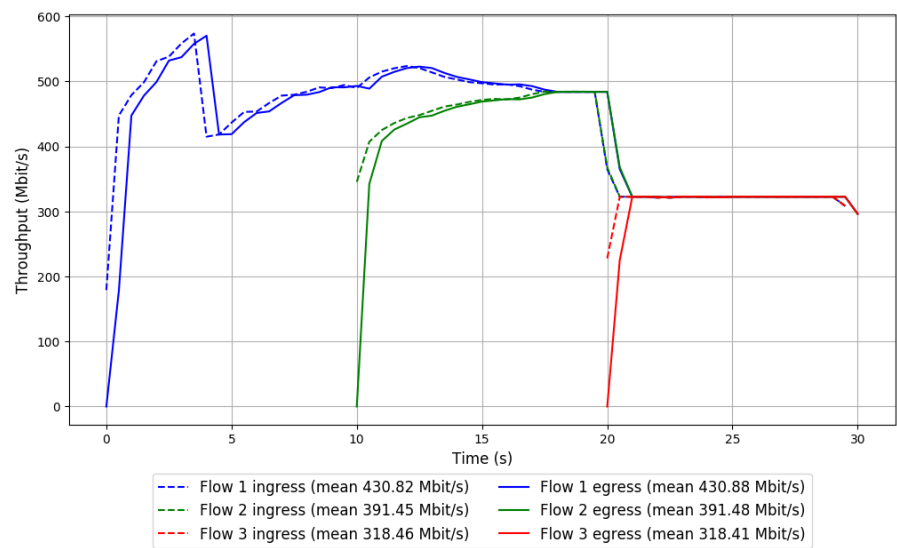
-- Flow 3:

Average throughput: 318.41 Mbit/s

95th percentile per-packet one-way delay: 4.453 ms

Loss rate: 0.24%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-07-25 12:00:09

End at: 2018-07-25 12:00:39

Local clock offset: 3.779 ms

Remote clock offset: 1.405 ms

Below is generated by plot.py at 2018-07-25 12:57:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 801.47 Mbit/s

95th percentile per-packet one-way delay: 4.401 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 428.47 Mbit/s

95th percentile per-packet one-way delay: 4.388 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 401.59 Mbit/s

95th percentile per-packet one-way delay: 4.403 ms

Loss rate: 0.09%

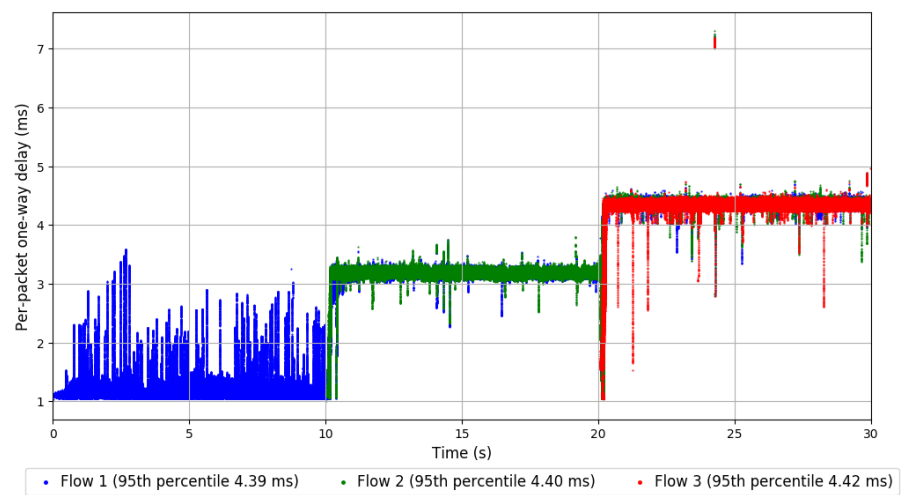
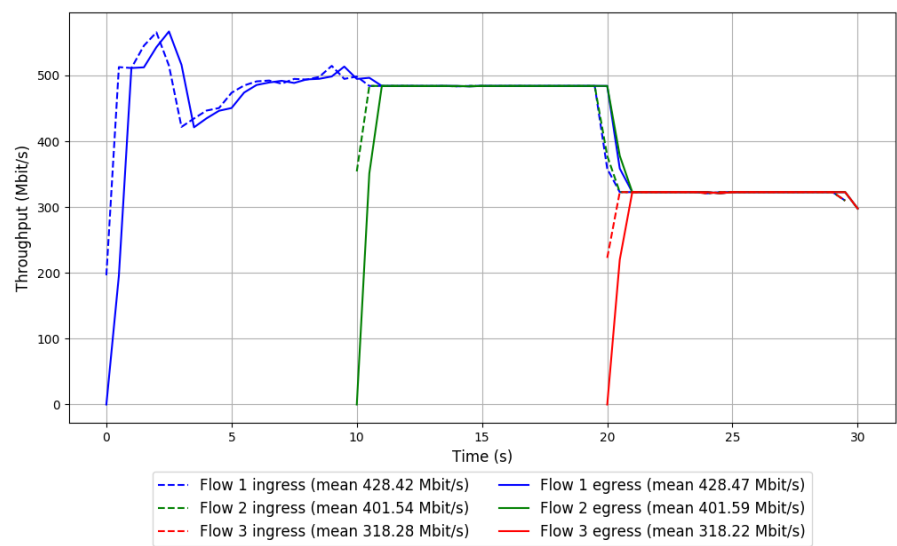
-- Flow 3:

Average throughput: 318.22 Mbit/s

95th percentile per-packet one-way delay: 4.416 ms

Loss rate: 0.24%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-07-25 07:50:22

End at: 2018-07-25 07:50:52

Local clock offset: 3.457 ms

Remote clock offset: 1.319 ms

Below is generated by plot.py at 2018-07-25 13:01:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 939.09 Mbit/s

95th percentile per-packet one-way delay: 4.933 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 588.32 Mbit/s

95th percentile per-packet one-way delay: 3.535 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 377.84 Mbit/s

95th percentile per-packet one-way delay: 3.742 ms

Loss rate: 0.09%

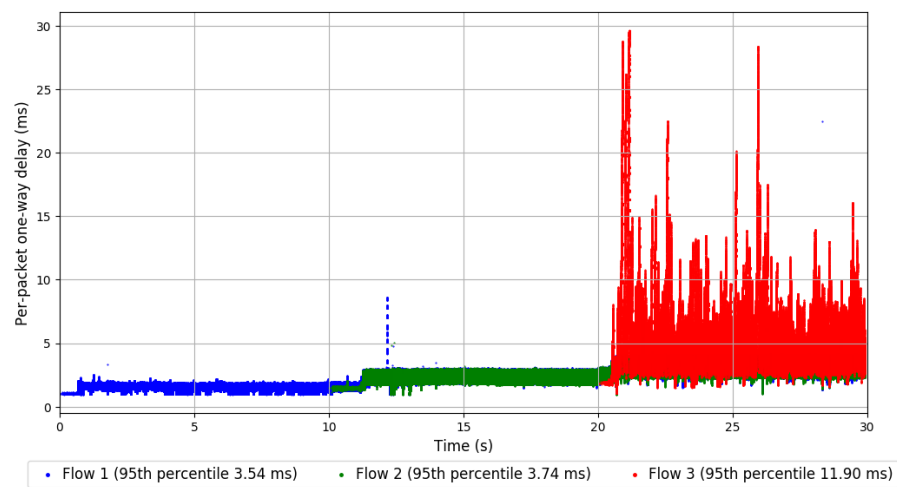
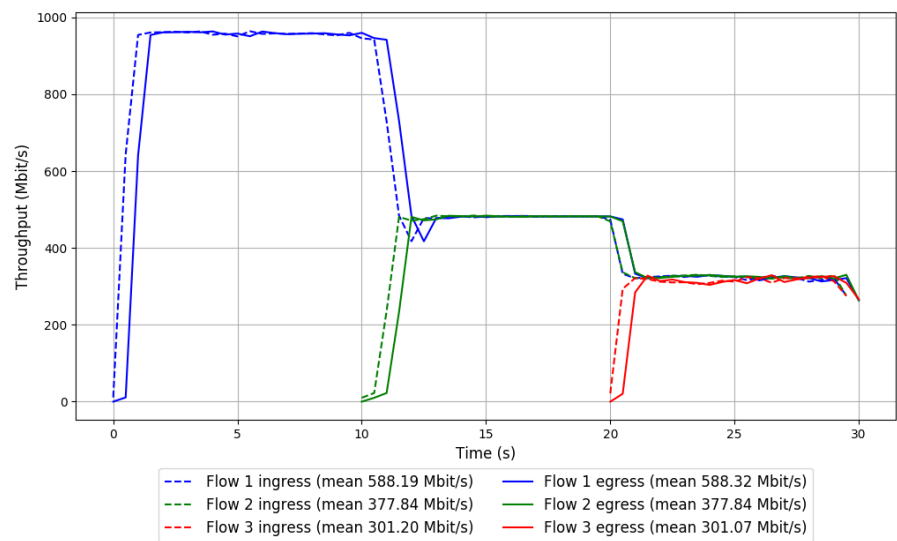
-- Flow 3:

Average throughput: 301.07 Mbit/s

95th percentile per-packet one-way delay: 11.896 ms

Loss rate: 0.25%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-07-25 08:17:13

End at: 2018-07-25 08:17:43

Local clock offset: 3.098 ms

Remote clock offset: 1.921 ms

Below is generated by plot.py at 2018-07-25 13:01:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 917.65 Mbit/s

95th percentile per-packet one-way delay: 3.723 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 559.24 Mbit/s

95th percentile per-packet one-way delay: 3.724 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 391.43 Mbit/s

95th percentile per-packet one-way delay: 3.650 ms

Loss rate: 0.09%

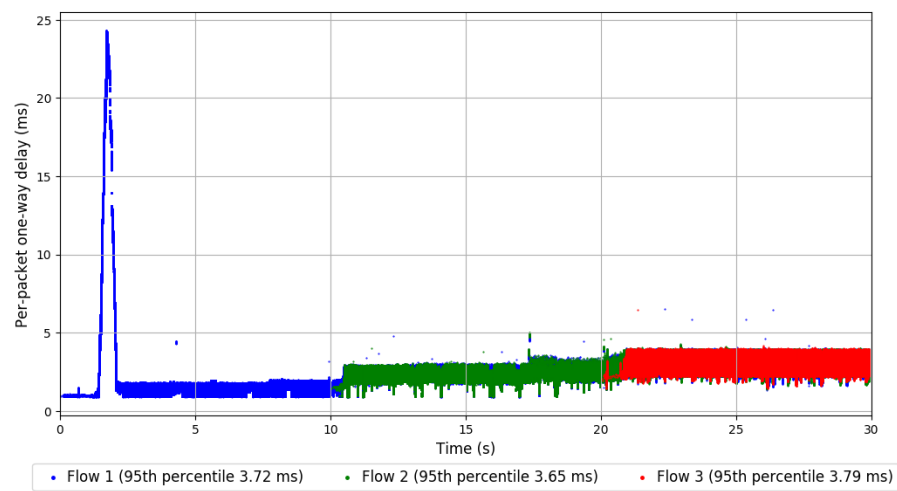
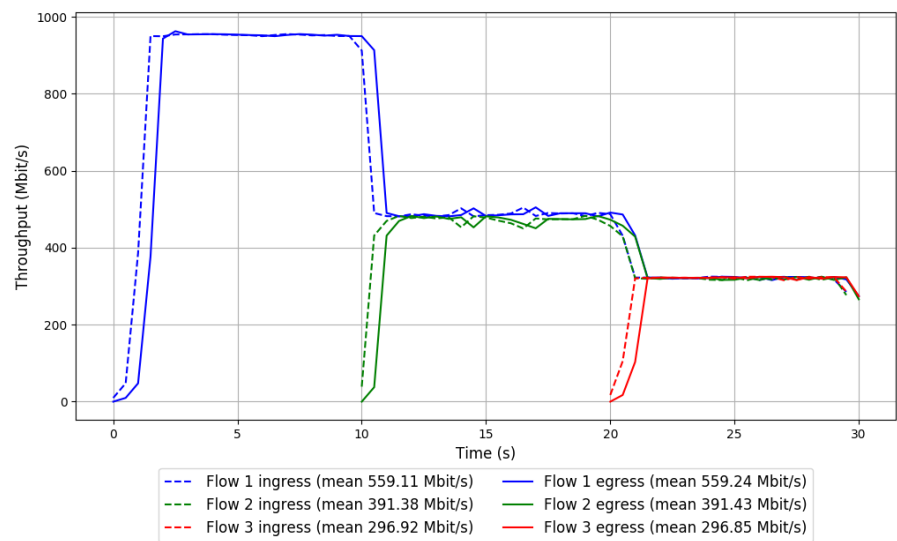
-- Flow 3:

Average throughput: 296.85 Mbit/s

95th percentile per-packet one-way delay: 3.787 ms

Loss rate: 0.24%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-07-25 08:44:07

End at: 2018-07-25 08:44:37

Local clock offset: 3.488 ms

Remote clock offset: 2.289 ms

Below is generated by plot.py at 2018-07-25 13:08:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 928.15 Mbit/s

95th percentile per-packet one-way delay: 3.803 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 568.78 Mbit/s

95th percentile per-packet one-way delay: 9.651 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 396.80 Mbit/s

95th percentile per-packet one-way delay: 3.676 ms

Loss rate: 0.09%

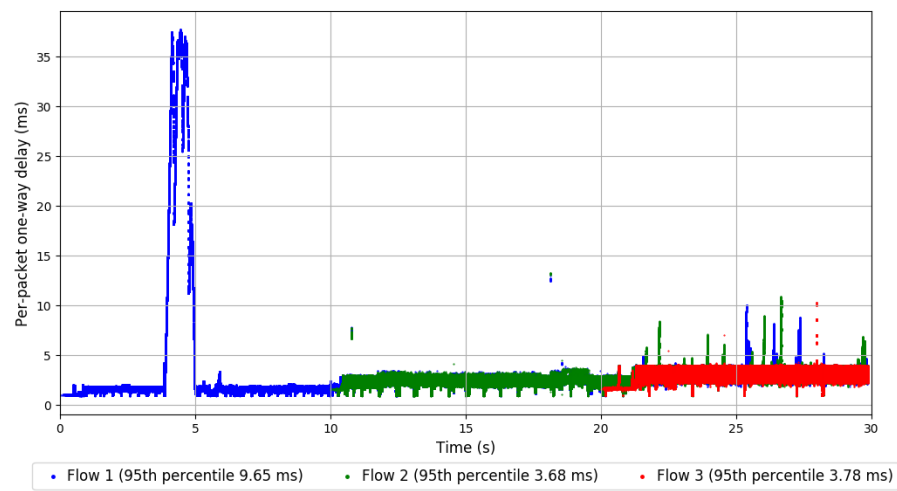
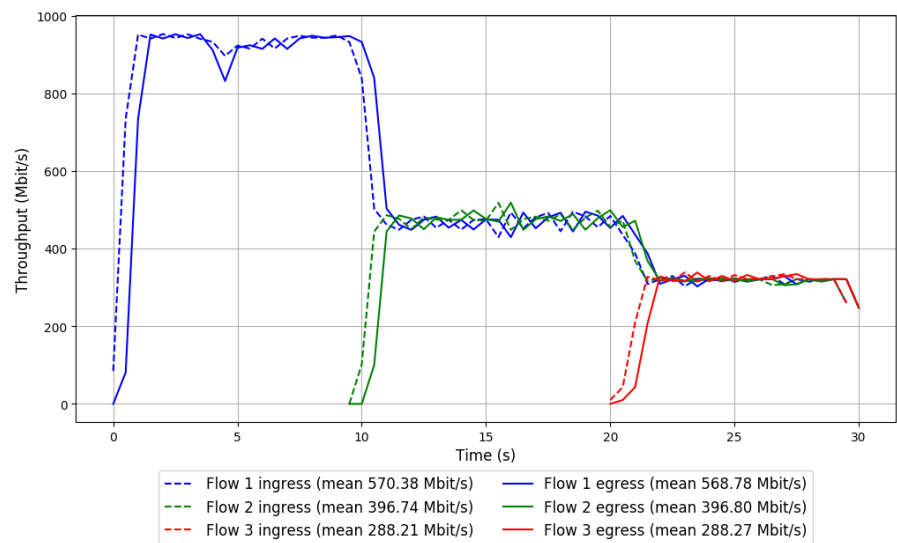
-- Flow 3:

Average throughput: 288.27 Mbit/s

95th percentile per-packet one-way delay: 3.783 ms

Loss rate: 0.25%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-07-25 09:11:08

End at: 2018-07-25 09:11:38

Local clock offset: 3.896 ms

Remote clock offset: 2.465 ms

Below is generated by plot.py at 2018-07-25 13:08:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 913.33 Mbit/s

95th percentile per-packet one-way delay: 3.783 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 553.92 Mbit/s

95th percentile per-packet one-way delay: 3.614 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 393.09 Mbit/s

95th percentile per-packet one-way delay: 3.807 ms

Loss rate: 0.09%

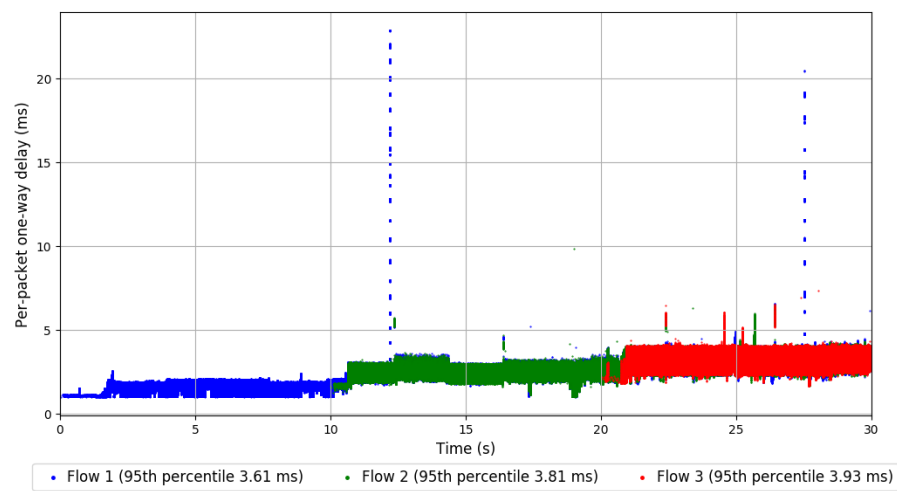
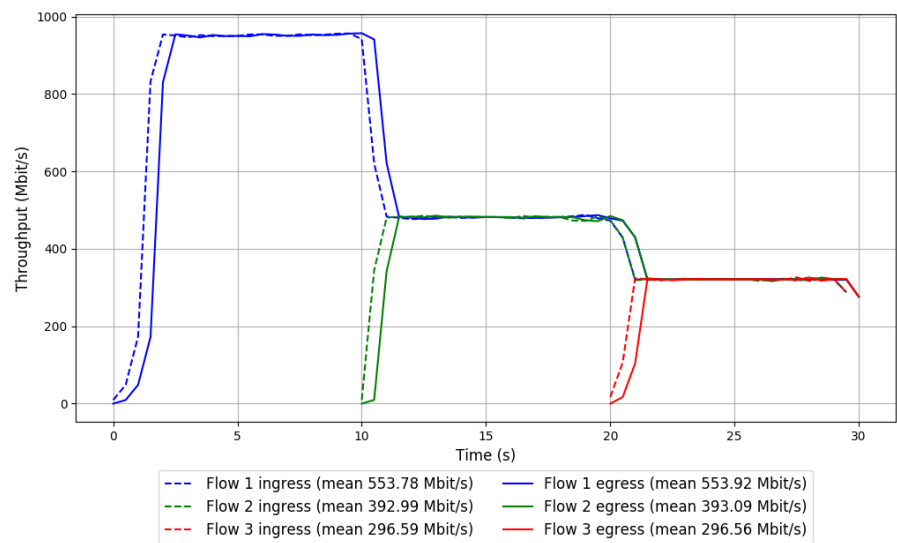
-- Flow 3:

Average throughput: 296.56 Mbit/s

95th percentile per-packet one-way delay: 3.933 ms

Loss rate: 0.23%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-07-25 09:38:00

End at: 2018-07-25 09:38:30

Local clock offset: 3.819 ms

Remote clock offset: 2.365 ms

Below is generated by plot.py at 2018-07-25 13:09:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 938.49 Mbit/s

95th percentile per-packet one-way delay: 4.995 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 585.99 Mbit/s

95th percentile per-packet one-way delay: 9.258 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 386.52 Mbit/s

95th percentile per-packet one-way delay: 3.806 ms

Loss rate: 0.09%

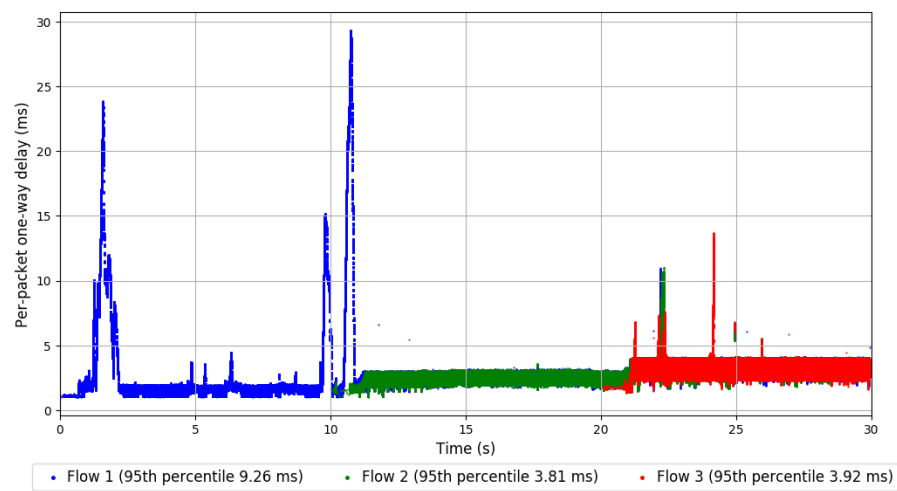
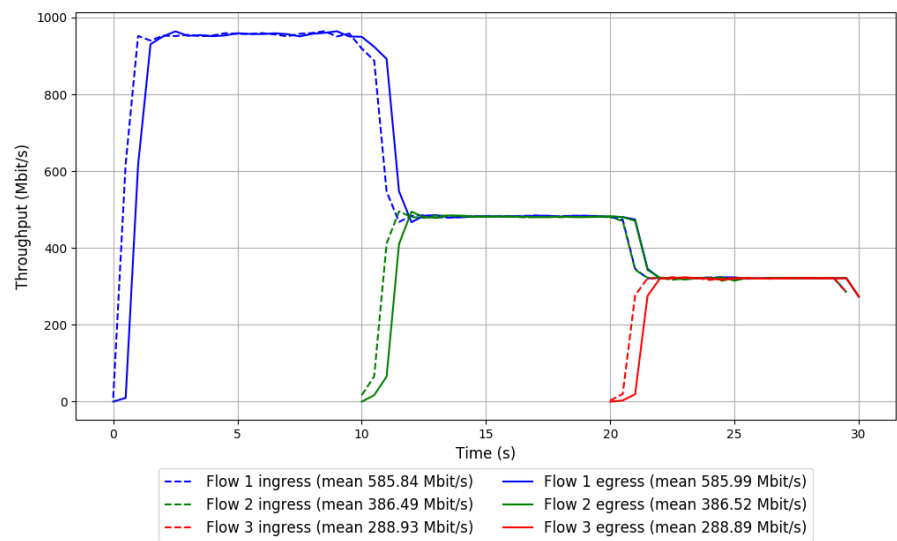
-- Flow 3:

Average throughput: 288.89 Mbit/s

95th percentile per-packet one-way delay: 3.922 ms

Loss rate: 0.23%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-07-25 10:04:51

End at: 2018-07-25 10:05:21

Local clock offset: 3.856 ms

Remote clock offset: 2.131 ms

Below is generated by plot.py at 2018-07-25 13:09:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 934.52 Mbit/s

95th percentile per-packet one-way delay: 3.841 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 574.98 Mbit/s

95th percentile per-packet one-way delay: 3.994 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 395.37 Mbit/s

95th percentile per-packet one-way delay: 3.746 ms

Loss rate: 0.09%

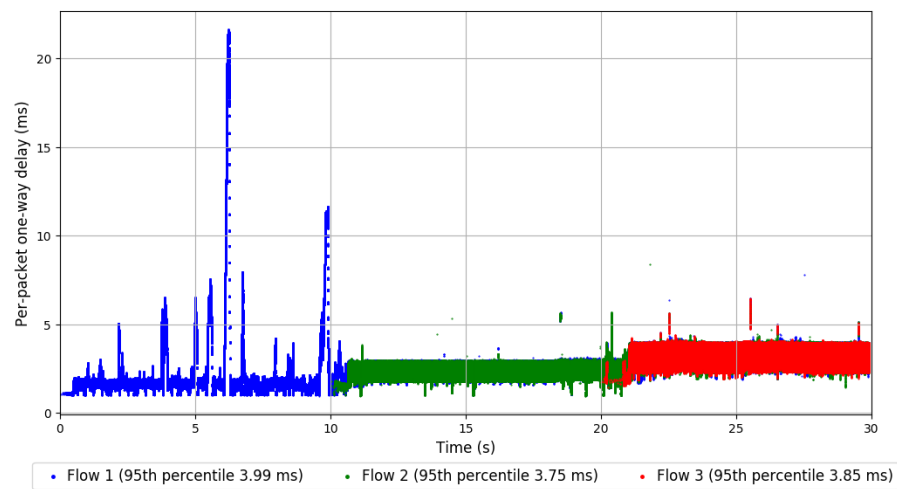
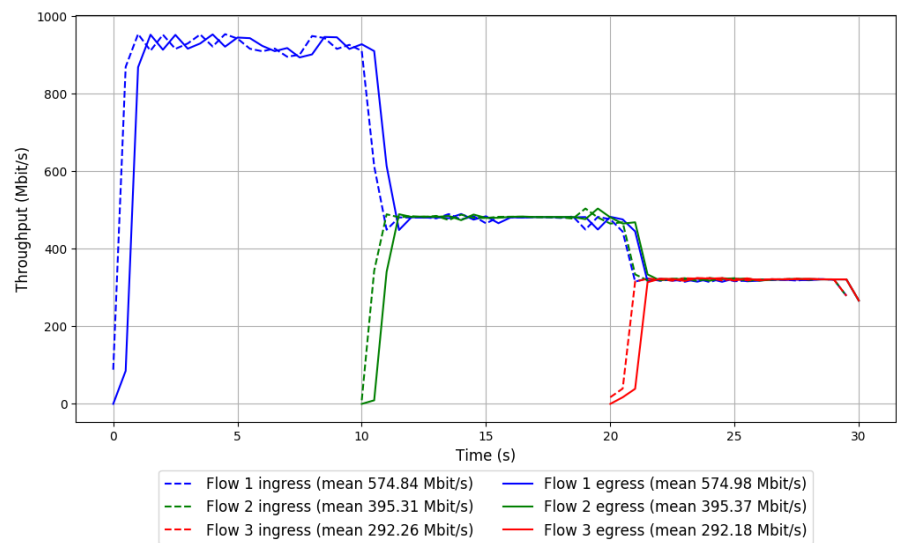
-- Flow 3:

Average throughput: 292.18 Mbit/s

95th percentile per-packet one-way delay: 3.854 ms

Loss rate: 0.24%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-07-25 10:31:43

End at: 2018-07-25 10:32:13

Local clock offset: 4.088 ms

Remote clock offset: 2.03 ms

Below is generated by plot.py at 2018-07-25 13:09:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 909.45 Mbit/s

95th percentile per-packet one-way delay: 28.960 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 560.13 Mbit/s

95th percentile per-packet one-way delay: 32.353 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 377.54 Mbit/s

95th percentile per-packet one-way delay: 3.652 ms

Loss rate: 0.09%

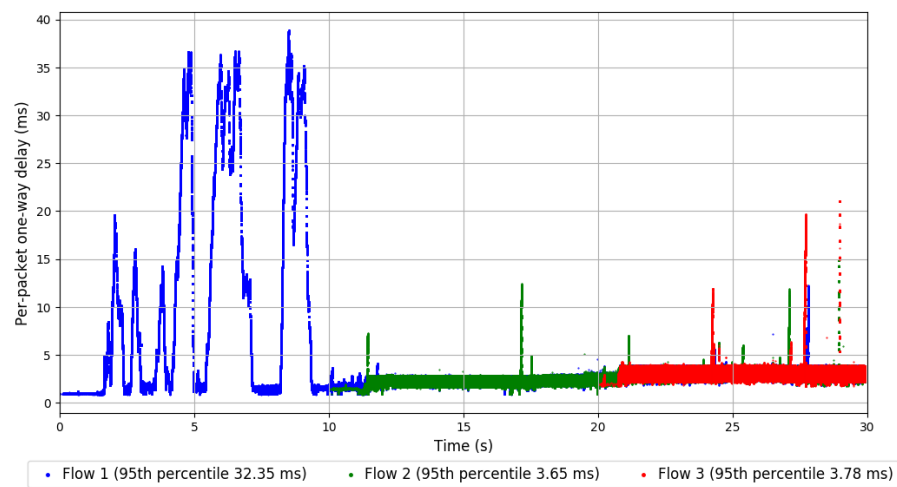
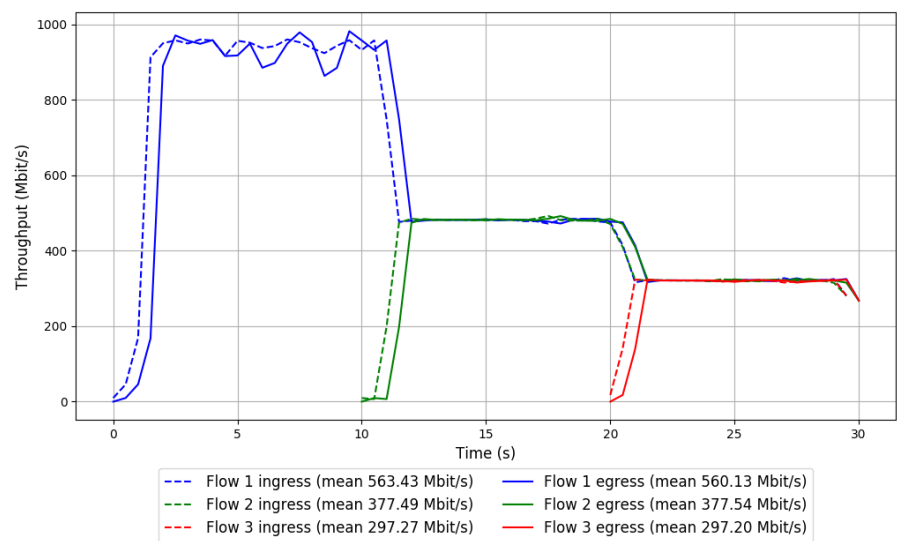
-- Flow 3:

Average throughput: 297.20 Mbit/s

95th percentile per-packet one-way delay: 3.776 ms

Loss rate: 0.25%

Run 7: Report of FillP — Data Link

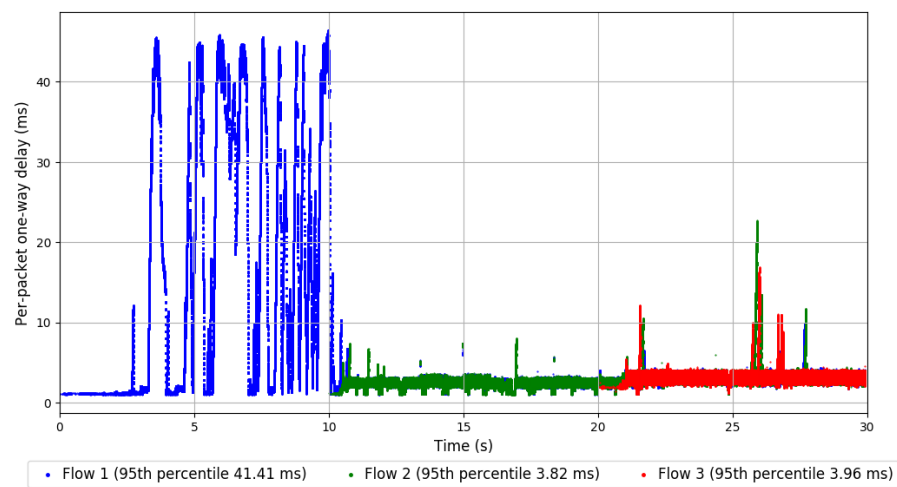
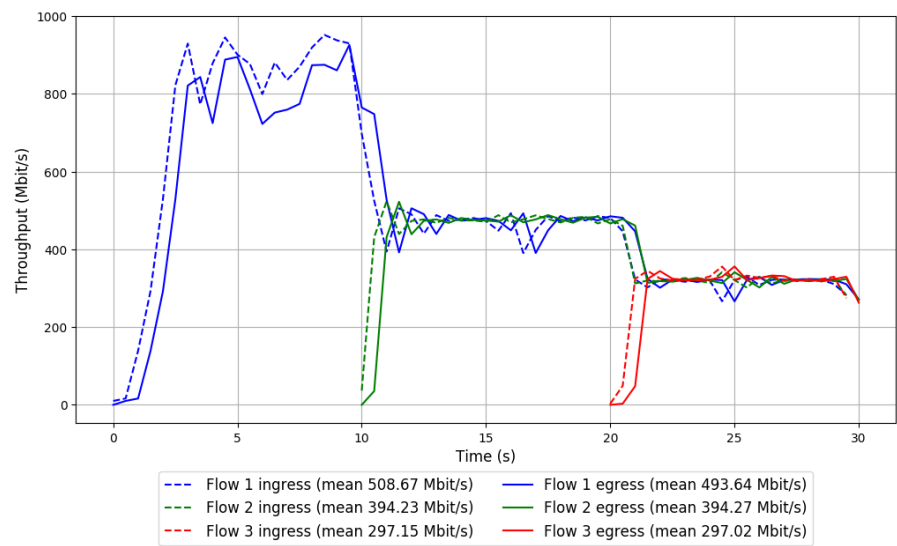


Run 8: Statistics of FillP

Start at: 2018-07-25 10:58:34
End at: 2018-07-25 10:59:04
Local clock offset: 4.408 ms
Remote clock offset: 1.827 ms

Below is generated by plot.py at 2018-07-25 13:09:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 854.29 Mbit/s
95th percentile per-packet one-way delay: 37.693 ms
Loss rate: 1.82%
-- Flow 1:
Average throughput: 493.64 Mbit/s
95th percentile per-packet one-way delay: 41.410 ms
Loss rate: 3.02%
-- Flow 2:
Average throughput: 394.27 Mbit/s
95th percentile per-packet one-way delay: 3.819 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 297.02 Mbit/s
95th percentile per-packet one-way delay: 3.955 ms
Loss rate: 0.23%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-07-25 11:25:29

End at: 2018-07-25 11:25:59

Local clock offset: 4.261 ms

Remote clock offset: 1.758 ms

Below is generated by plot.py at 2018-07-25 13:13:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 908.85 Mbit/s

95th percentile per-packet one-way delay: 22.262 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 551.36 Mbit/s

95th percentile per-packet one-way delay: 27.533 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 393.37 Mbit/s

95th percentile per-packet one-way delay: 3.728 ms

Loss rate: 0.09%

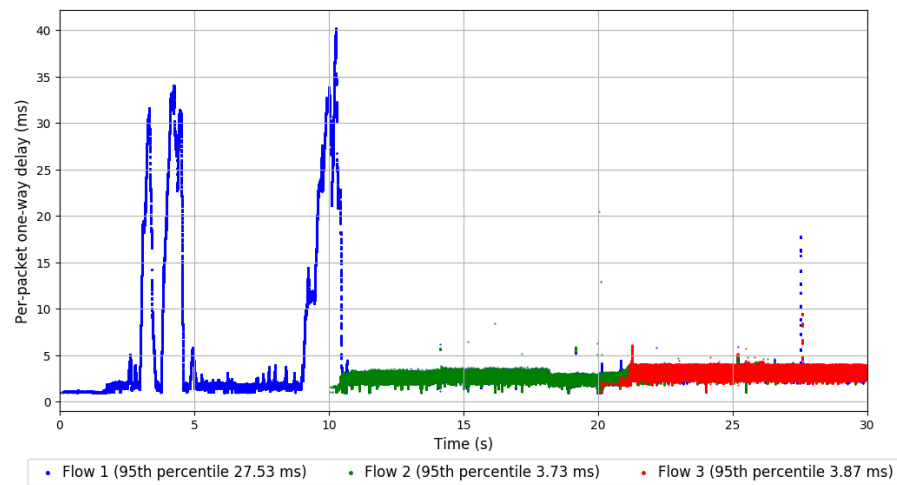
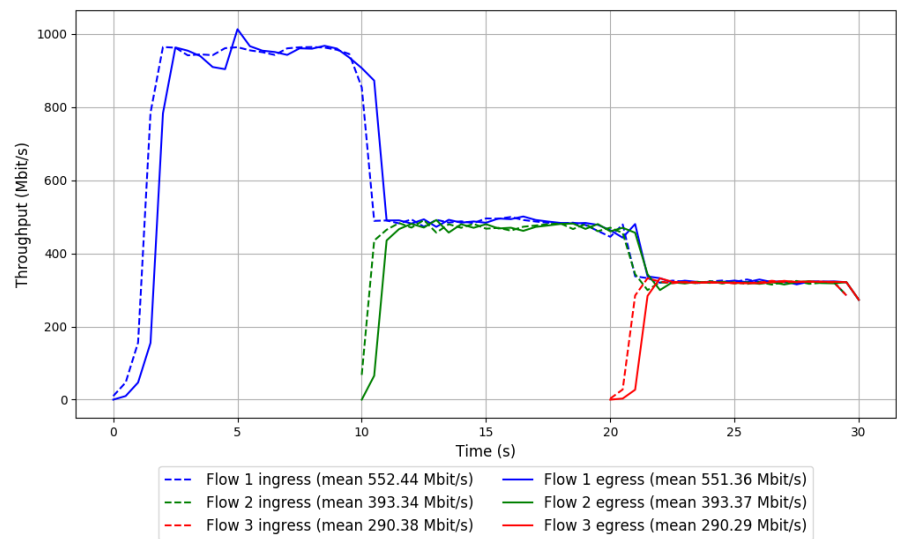
-- Flow 3:

Average throughput: 290.29 Mbit/s

95th percentile per-packet one-way delay: 3.874 ms

Loss rate: 0.24%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-07-25 11:52:22

End at: 2018-07-25 11:52:52

Local clock offset: 3.73 ms

Remote clock offset: 1.57 ms

Below is generated by plot.py at 2018-07-25 13:14:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 937.26 Mbit/s

95th percentile per-packet one-way delay: 3.643 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 585.34 Mbit/s

95th percentile per-packet one-way delay: 3.515 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 379.24 Mbit/s

95th percentile per-packet one-way delay: 3.654 ms

Loss rate: 0.09%

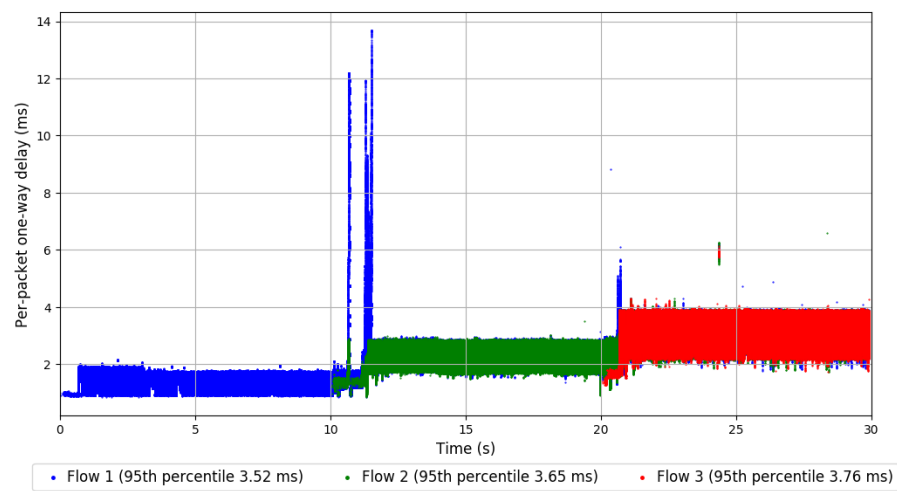
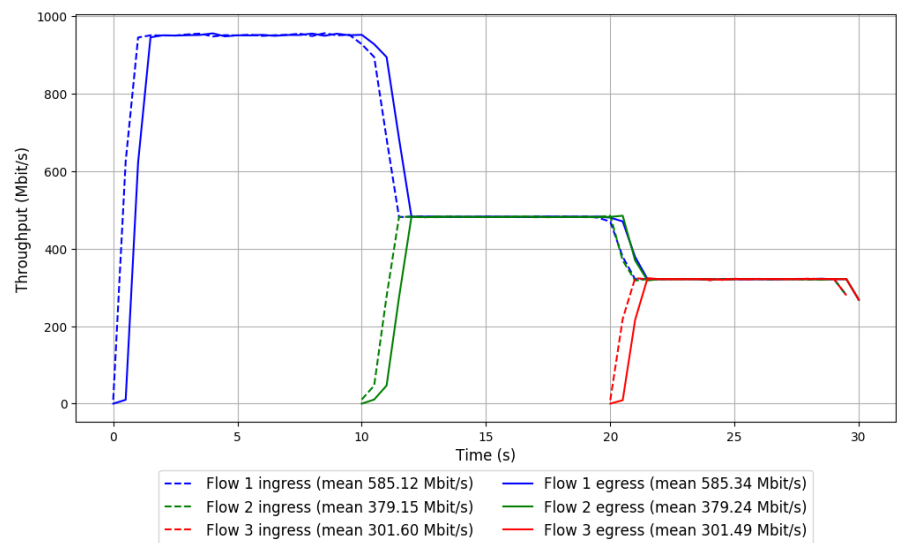
-- Flow 3:

Average throughput: 301.49 Mbit/s

95th percentile per-packet one-way delay: 3.763 ms

Loss rate: 0.23%

Run 10: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2018-07-25 07:52:06

End at: 2018-07-25 07:52:36

Local clock offset: 3.339 ms

Remote clock offset: 1.325 ms

Below is generated by plot.py at 2018-07-25 13:21:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 951.34 Mbit/s

95th percentile per-packet one-way delay: 5.552 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 581.44 Mbit/s

95th percentile per-packet one-way delay: 3.449 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 398.06 Mbit/s

95th percentile per-packet one-way delay: 9.700 ms

Loss rate: 0.10%

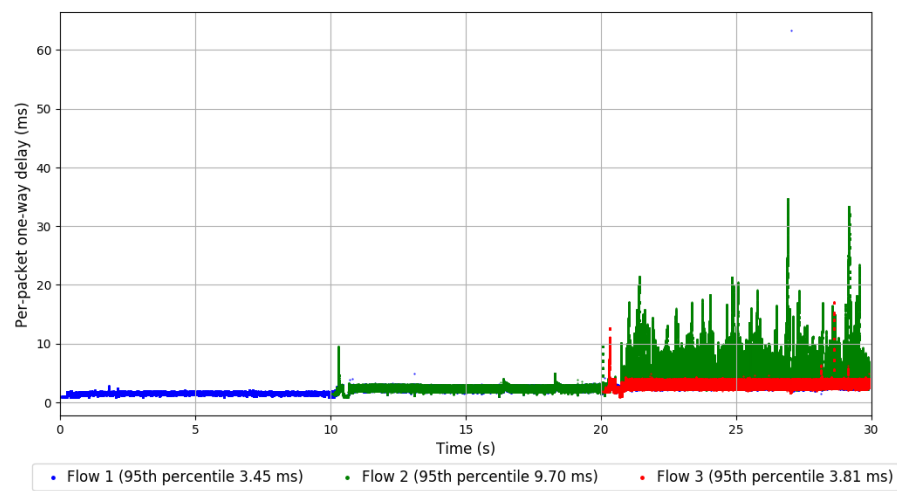
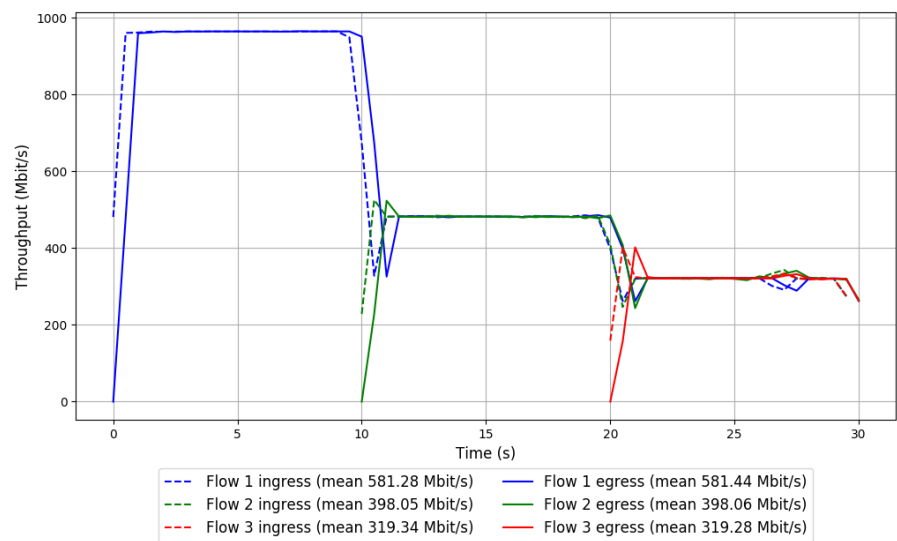
-- Flow 3:

Average throughput: 319.28 Mbit/s

95th percentile per-packet one-way delay: 3.813 ms

Loss rate: 0.22%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-07-25 08:18:56

End at: 2018-07-25 08:19:26

Local clock offset: 3.192 ms

Remote clock offset: 1.966 ms

Below is generated by plot.py at 2018-07-25 13:21:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 931.00 Mbit/s

95th percentile per-packet one-way delay: 17.385 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 561.65 Mbit/s

95th percentile per-packet one-way delay: 19.226 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 398.18 Mbit/s

95th percentile per-packet one-way delay: 3.764 ms

Loss rate: 0.08%

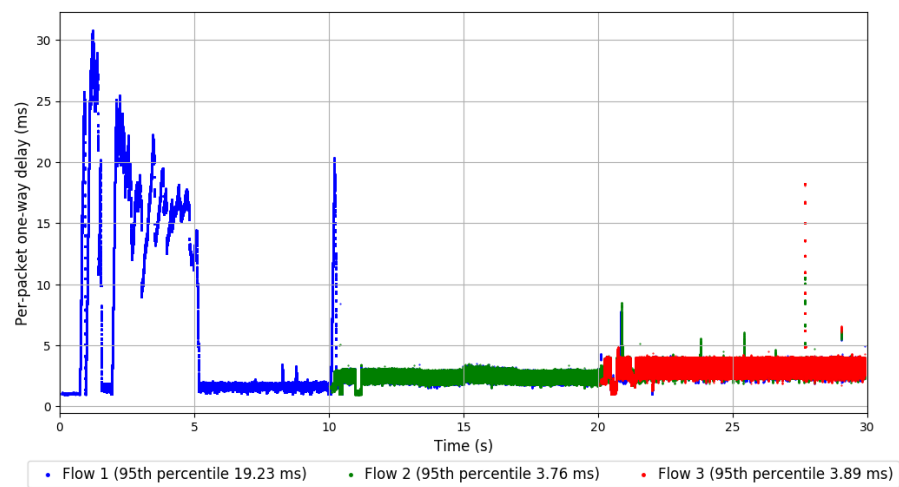
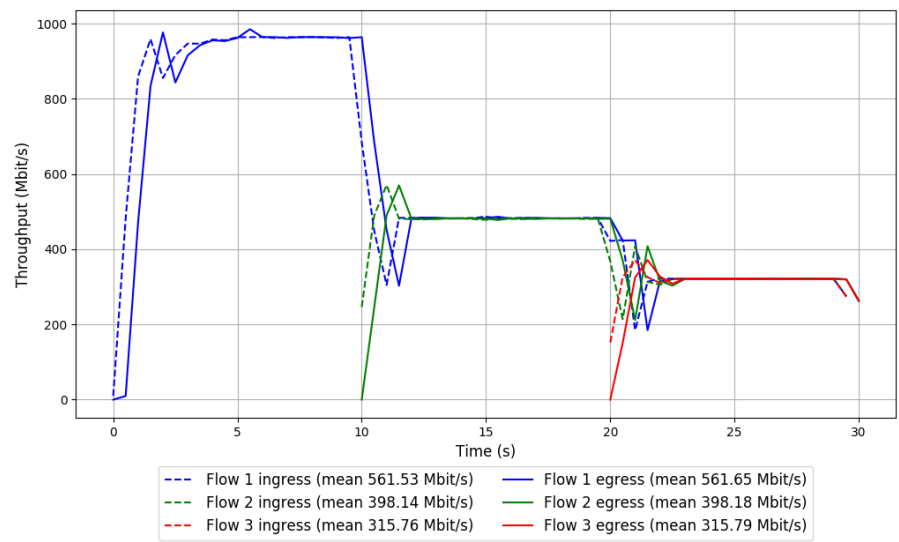
-- Flow 3:

Average throughput: 315.79 Mbit/s

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

Loss rate: 0.21%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2018-07-25 08:45:51

End at: 2018-07-25 08:46:21

Local clock offset: 3.61 ms

Remote clock offset: 2.302 ms

Below is generated by plot.py at 2018-07-25 13:21:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 931.22 Mbit/s

95th percentile per-packet one-way delay: 10.698 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 560.13 Mbit/s

95th percentile per-packet one-way delay: 17.089 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 400.41 Mbit/s

95th percentile per-packet one-way delay: 3.739 ms

Loss rate: 0.09%

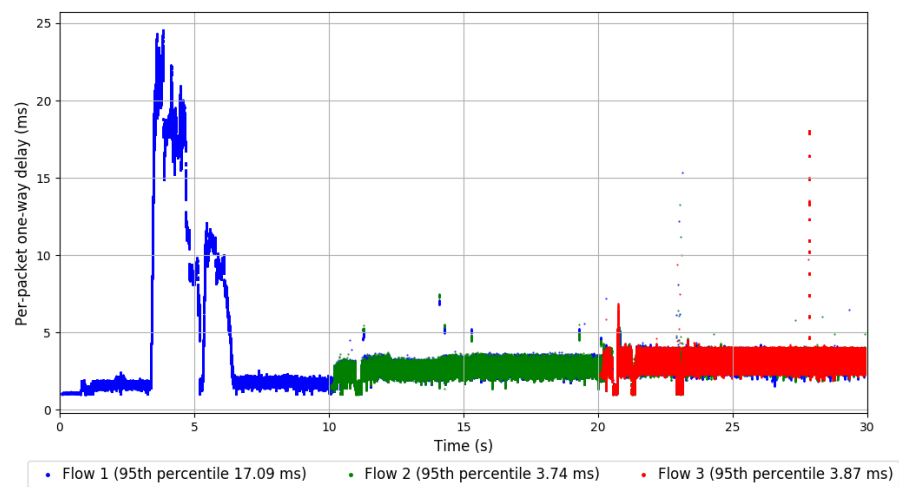
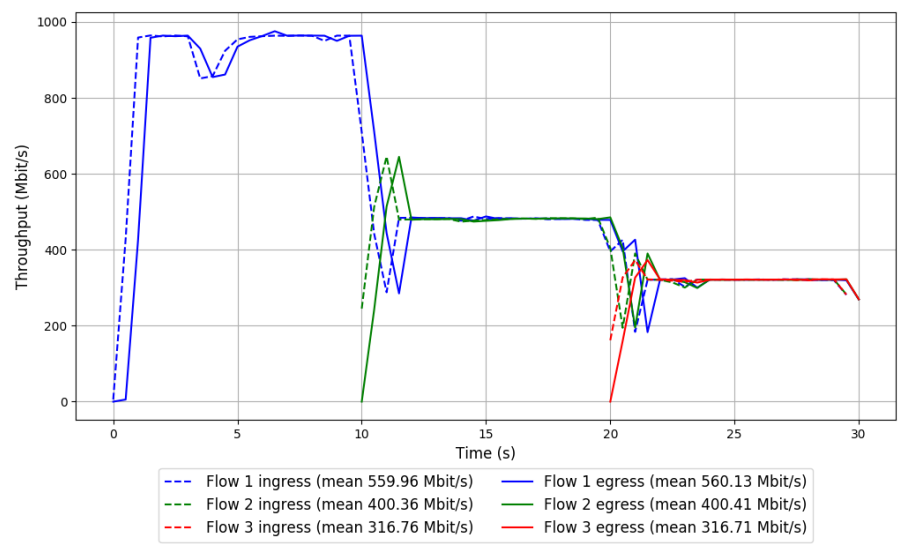
-- Flow 3:

Average throughput: 316.71 Mbit/s

95th percentile per-packet one-way delay: 3.868 ms

Loss rate: 0.23%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2018-07-25 09:12:50

End at: 2018-07-25 09:13:20

Local clock offset: 3.823 ms

Remote clock offset: 2.589 ms

Below is generated by plot.py at 2018-07-25 13:22:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 933.88 Mbit/s

95th percentile per-packet one-way delay: 3.574 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 564.79 Mbit/s

95th percentile per-packet one-way delay: 3.432 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 399.27 Mbit/s

95th percentile per-packet one-way delay: 3.588 ms

Loss rate: 0.01%

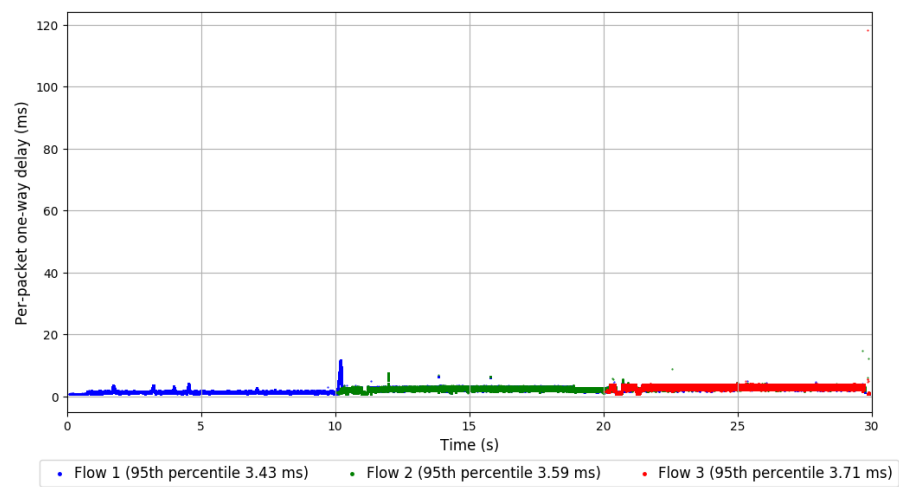
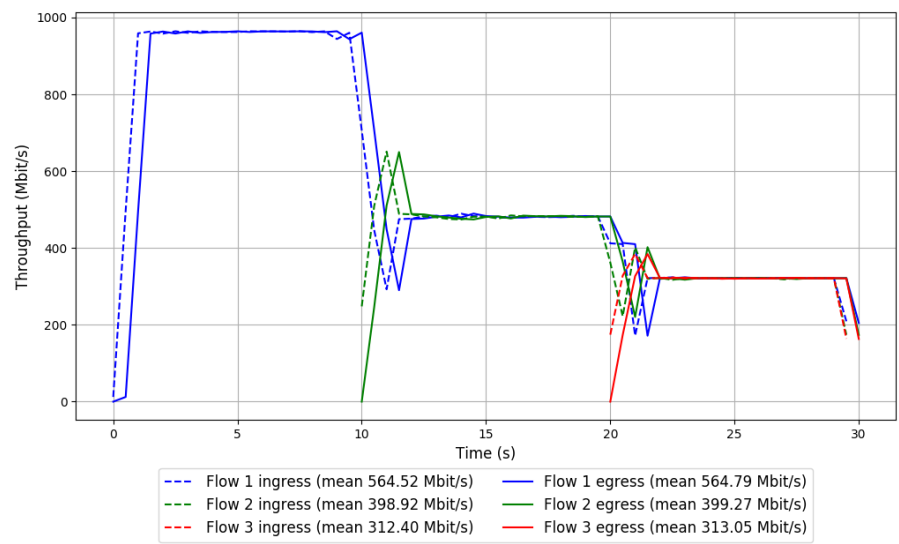
-- Flow 3:

Average throughput: 313.05 Mbit/s

95th percentile per-packet one-way delay: 3.715 ms

Loss rate: 0.04%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2018-07-25 09:39:44

End at: 2018-07-25 09:40:14

Local clock offset: 3.702 ms

Remote clock offset: 2.347 ms

Below is generated by plot.py at 2018-07-25 13:22:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 937.69 Mbit/s

95th percentile per-packet one-way delay: 3.726 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 568.14 Mbit/s

95th percentile per-packet one-way delay: 3.469 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 396.85 Mbit/s

95th percentile per-packet one-way delay: 3.687 ms

Loss rate: 0.09%

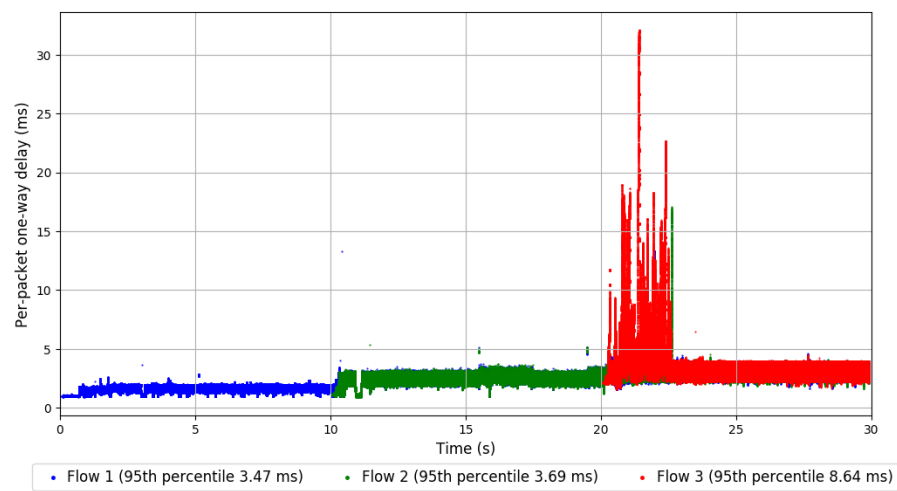
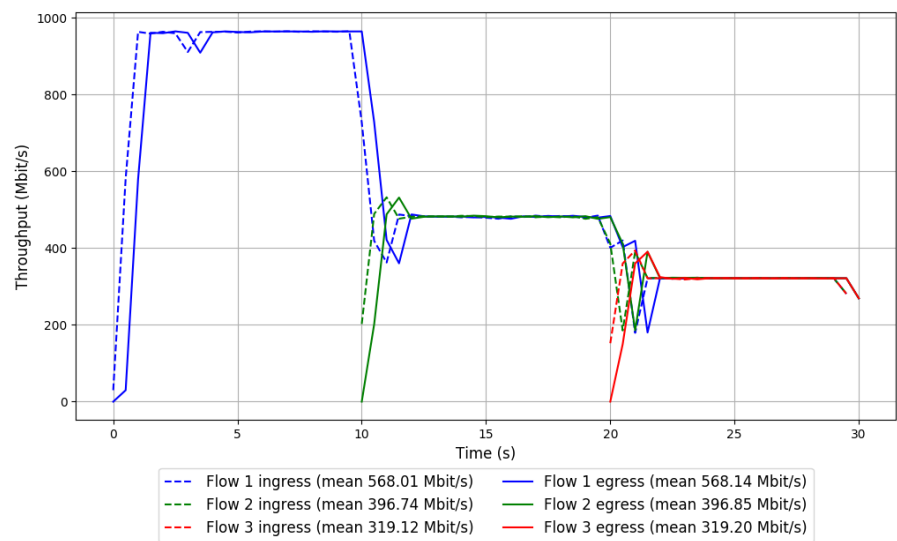
-- Flow 3:

Average throughput: 319.20 Mbit/s

95th percentile per-packet one-way delay: 8.644 ms

Loss rate: 0.22%

Run 5: Report of FillP-Sheep — Data Link



Run 6: Statistics of FillP-Sheep

Start at: 2018-07-25 10:06:35

End at: 2018-07-25 10:07:05

Local clock offset: 3.939 ms

Remote clock offset: 2.121 ms

Below is generated by plot.py at 2018-07-25 13:22:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 936.20 Mbit/s

95th percentile per-packet one-way delay: 3.869 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 565.20 Mbit/s

95th percentile per-packet one-way delay: 4.704 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 399.15 Mbit/s

95th percentile per-packet one-way delay: 3.755 ms

Loss rate: 0.09%

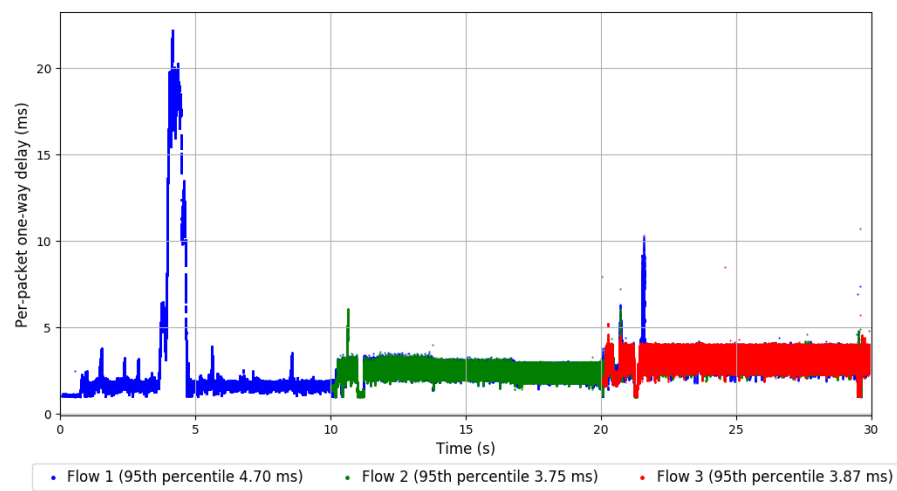
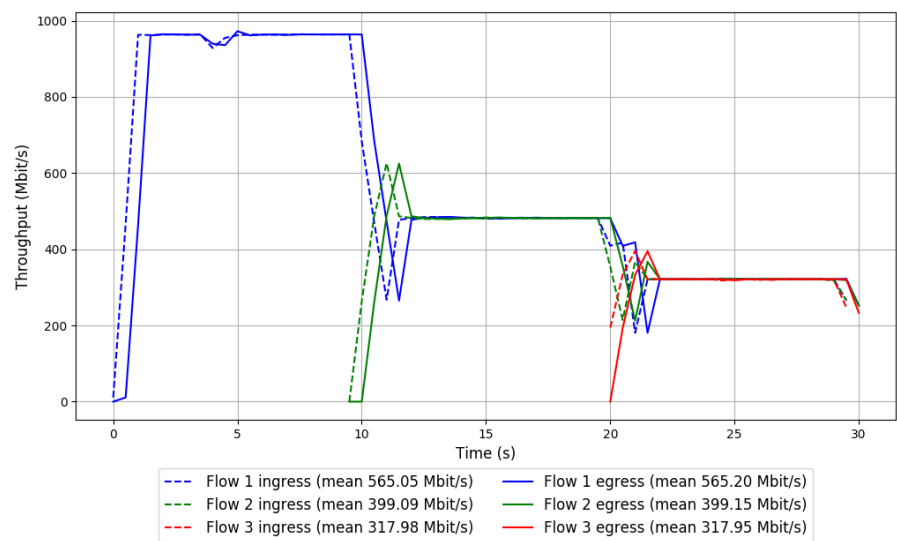
-- Flow 3:

Average throughput: 317.95 Mbit/s

95th percentile per-packet one-way delay: 3.874 ms

Loss rate: 0.23%

Run 6: Report of FillP-Sheep — Data Link



Run 7: Statistics of FillP-Sheep

Start at: 2018-07-25 10:33:26

End at: 2018-07-25 10:33:56

Local clock offset: 4.104 ms

Remote clock offset: 1.97 ms

Below is generated by plot.py at 2018-07-25 13:28:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 942.41 Mbit/s

95th percentile per-packet one-way delay: 20.382 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 571.93 Mbit/s

95th percentile per-packet one-way delay: 21.809 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 399.74 Mbit/s

95th percentile per-packet one-way delay: 3.652 ms

Loss rate: 0.09%

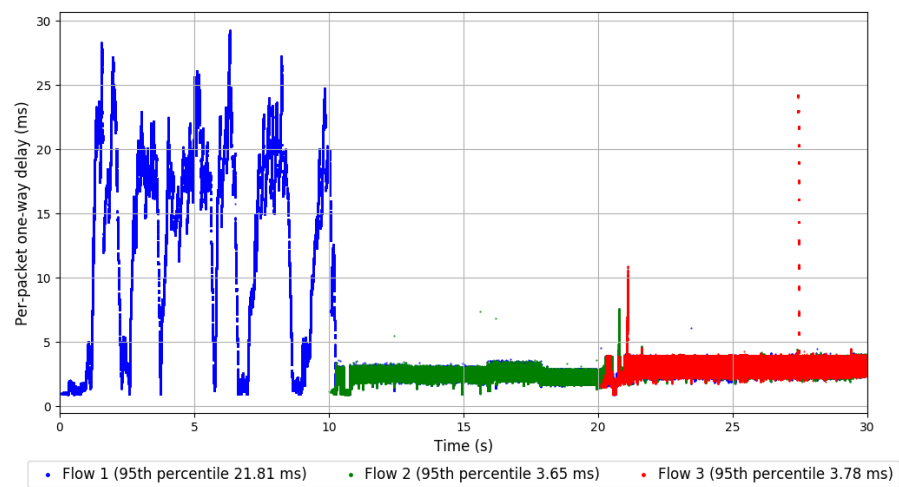
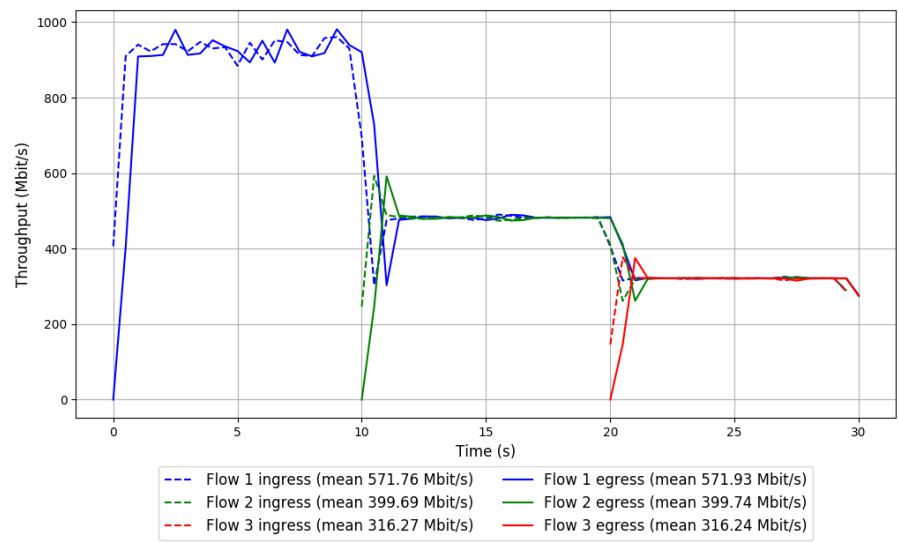
-- Flow 3:

Average throughput: 316.24 Mbit/s

95th percentile per-packet one-way delay: 3.779 ms

Loss rate: 0.22%

Run 7: Report of FillP-Sheep — Data Link



Run 8: Statistics of FillP-Sheep

Start at: 2018-07-25 11:00:15

End at: 2018-07-25 11:00:45

Local clock offset: 4.416 ms

Remote clock offset: 1.947 ms

Below is generated by plot.py at 2018-07-25 13:28:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 902.11 Mbit/s

95th percentile per-packet one-way delay: 34.753 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 532.11 Mbit/s

95th percentile per-packet one-way delay: 37.017 ms

Loss rate: 1.21%

-- Flow 2:

Average throughput: 398.19 Mbit/s

95th percentile per-packet one-way delay: 3.688 ms

Loss rate: 0.09%

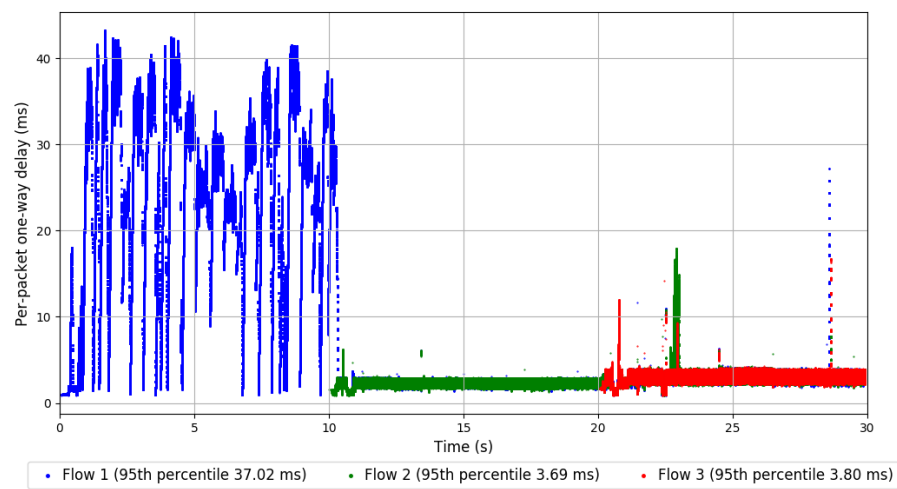
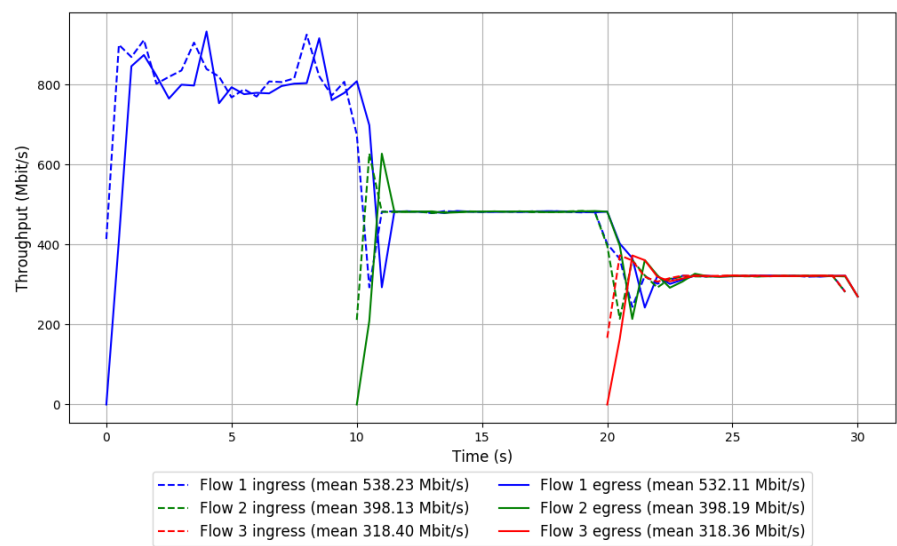
-- Flow 3:

Average throughput: 318.36 Mbit/s

95th percentile per-packet one-way delay: 3.796 ms

Loss rate: 0.22%

Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

Start at: 2018-07-25 11:27:12

End at: 2018-07-25 11:27:42

Local clock offset: 4.262 ms

Remote clock offset: 1.791 ms

Below is generated by plot.py at 2018-07-25 13:34:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 939.56 Mbit/s

95th percentile per-packet one-way delay: 20.084 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 570.70 Mbit/s

95th percentile per-packet one-way delay: 21.021 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 396.47 Mbit/s

95th percentile per-packet one-way delay: 3.704 ms

Loss rate: 0.08%

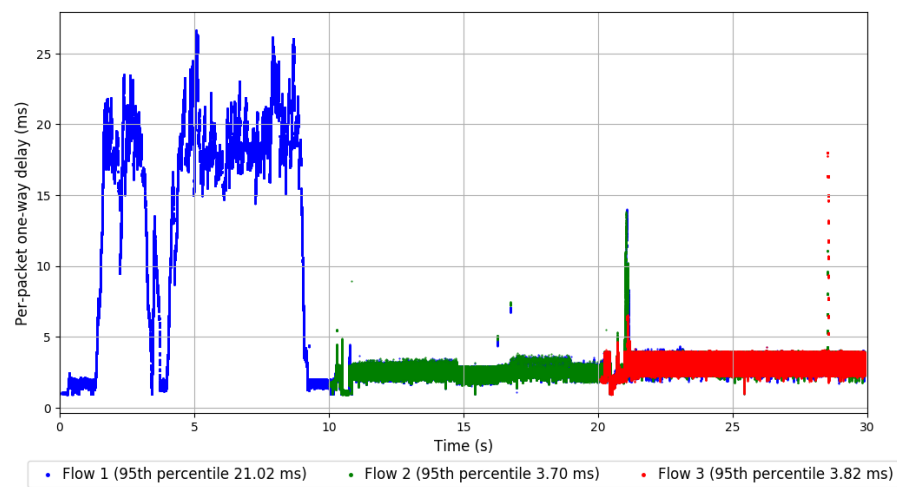
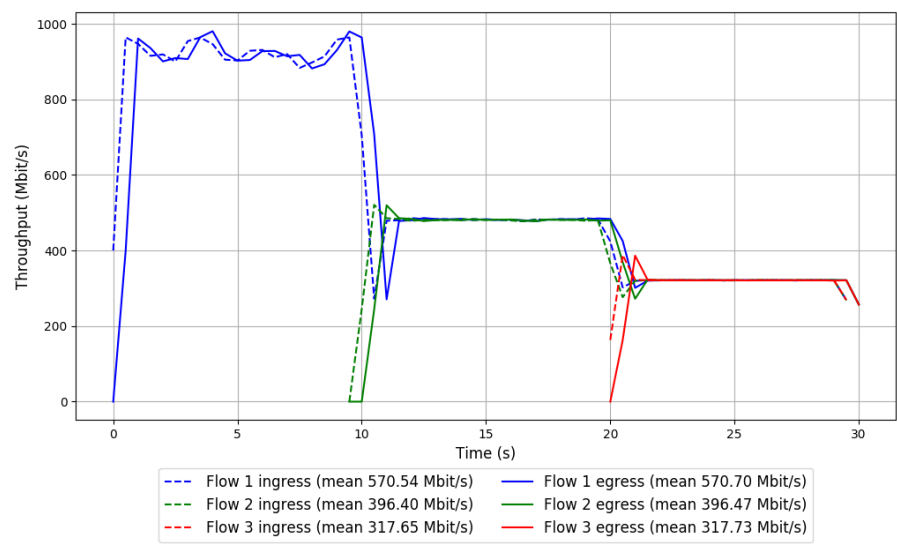
-- Flow 3:

Average throughput: 317.73 Mbit/s

95th percentile per-packet one-way delay: 3.822 ms

Loss rate: 0.22%

Run 9: Report of FillP-Sheep — Data Link



Run 10: Statistics of FillP-Sheep

Start at: 2018-07-25 11:54:05

End at: 2018-07-25 11:54:35

Local clock offset: 3.811 ms

Remote clock offset: 1.5 ms

Below is generated by plot.py at 2018-07-25 13:34:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 920.63 Mbit/s

95th percentile per-packet one-way delay: 20.003 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 549.74 Mbit/s

95th percentile per-packet one-way delay: 20.932 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 399.57 Mbit/s

95th percentile per-packet one-way delay: 3.888 ms

Loss rate: 0.08%

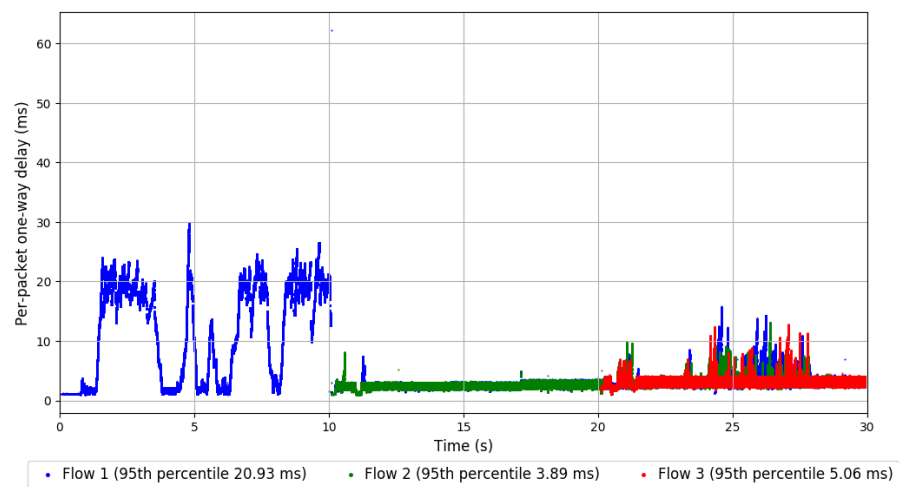
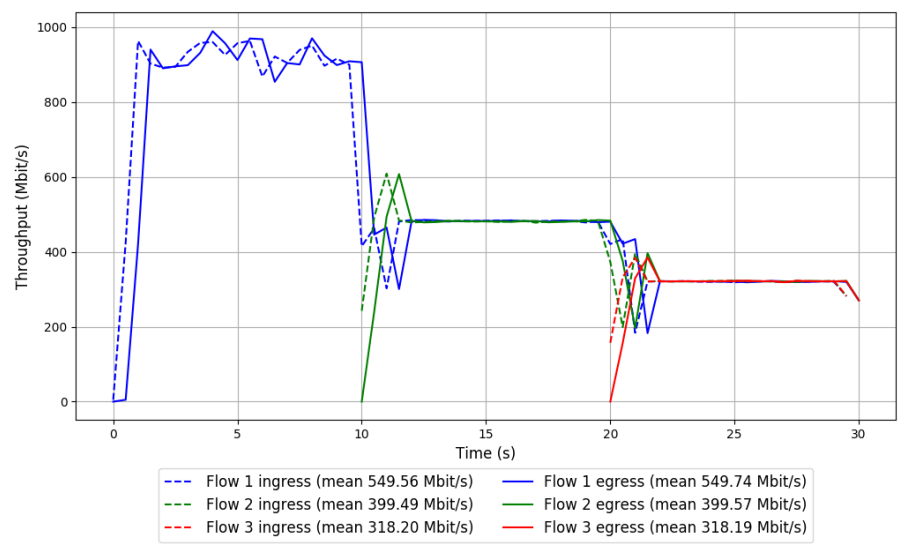
-- Flow 3:

Average throughput: 318.19 Mbit/s

95th percentile per-packet one-way delay: 5.059 ms

Loss rate: 0.22%

Run 10: Report of FillP-Sheep — Data Link

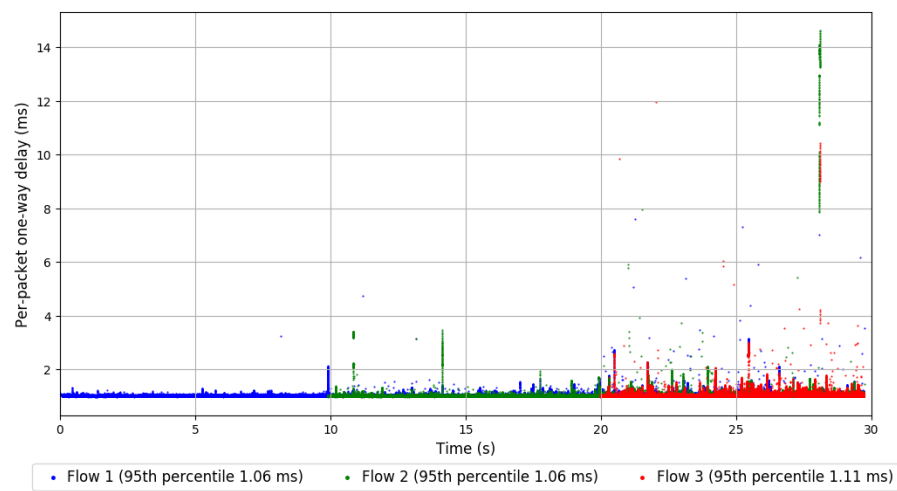
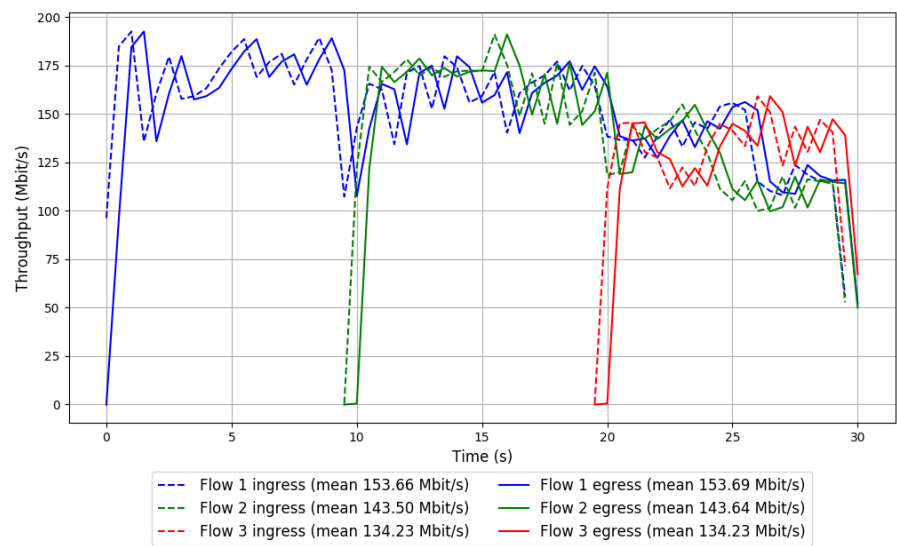


```
Run 1: Statistics of Indigo

Start at: 2018-07-25 07:53:50
End at: 2018-07-25 07:54:20
Local clock offset: 3.393 ms
Remote clock offset: 1.394 ms

# Below is generated by plot.py at 2018-07-25 13:34:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 293.61 Mbit/s
95th percentile per-packet one-way delay: 1.065 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 153.69 Mbit/s
95th percentile per-packet one-way delay: 1.059 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 143.64 Mbit/s
95th percentile per-packet one-way delay: 1.059 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 134.23 Mbit/s
95th percentile per-packet one-way delay: 1.111 ms
Loss rate: 0.21%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-07-25 08:20:40

End at: 2018-07-25 08:21:10

Local clock offset: 3.198 ms

Remote clock offset: 1.984 ms

Below is generated by plot.py at 2018-07-25 13:34:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 291.01 Mbit/s

95th percentile per-packet one-way delay: 1.149 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 150.05 Mbit/s

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

Loss rate: 0.05%

-- Flow 2:

Average throughput: 144.05 Mbit/s

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

Loss rate: 0.09%

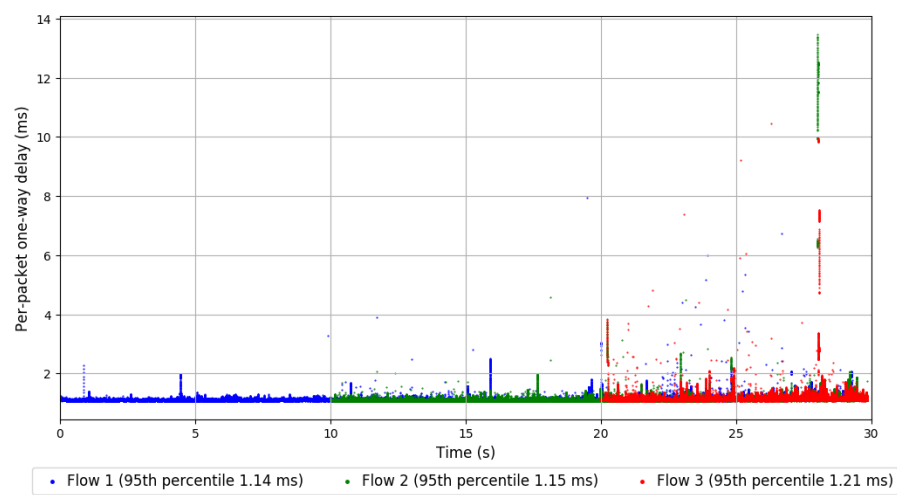
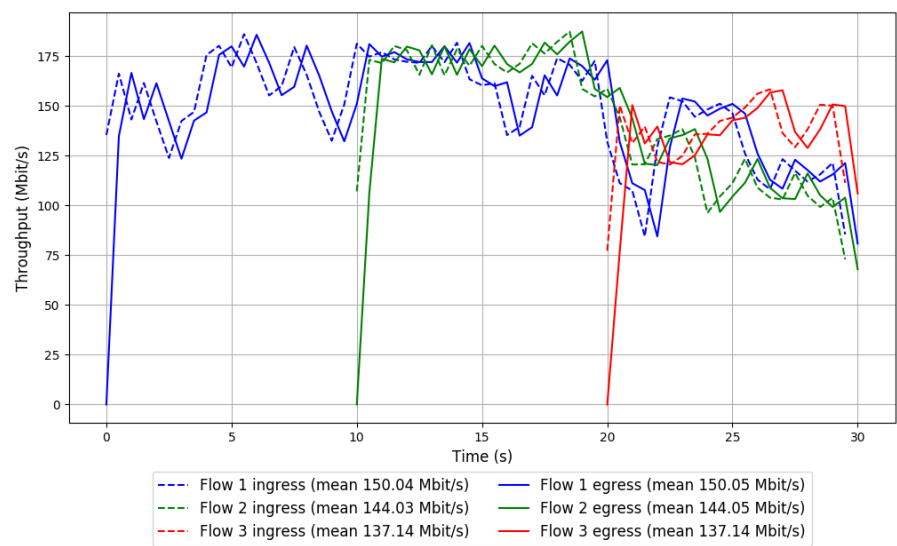
-- Flow 3:

Average throughput: 137.14 Mbit/s

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

Loss rate: 0.21%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-07-25 08:47:34

End at: 2018-07-25 08:48:04

Local clock offset: 3.632 ms

Remote clock offset: 2.315 ms

Below is generated by plot.py at 2018-07-25 13:34:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 296.25 Mbit/s

95th percentile per-packet one-way delay: 1.099 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 161.25 Mbit/s

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

Loss rate: 0.03%

-- Flow 2:

Average throughput: 156.11 Mbit/s

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

Loss rate: 0.10%

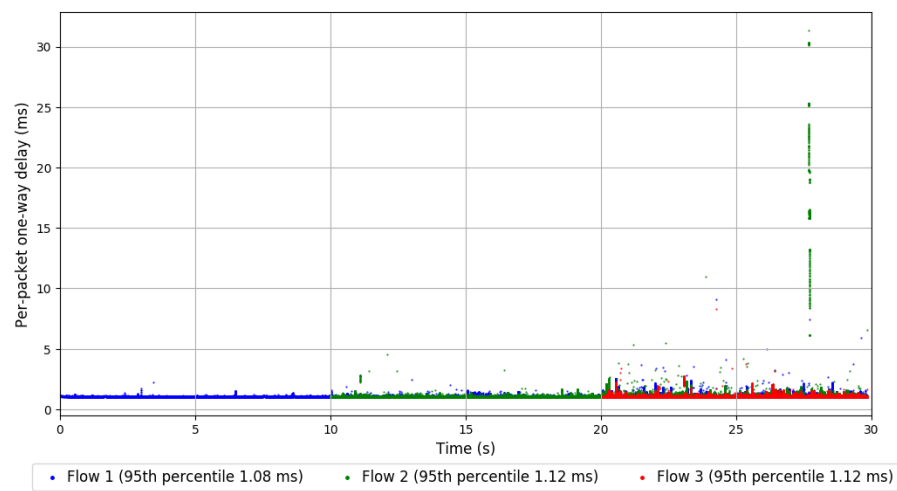
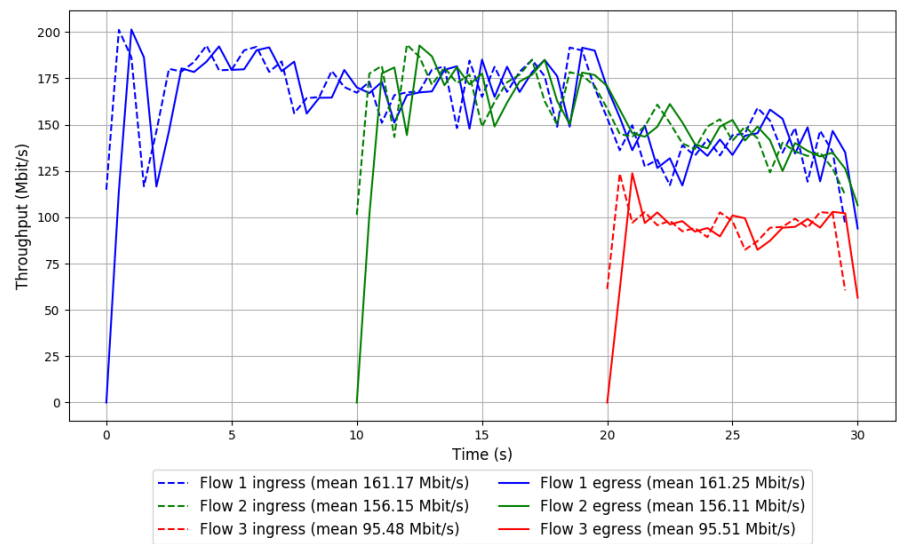
-- Flow 3:

Average throughput: 95.51 Mbit/s

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

Loss rate: 0.21%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-07-25 09:14:33

End at: 2018-07-25 09:15:03

Local clock offset: 3.933 ms

Remote clock offset: 2.573 ms

Below is generated by plot.py at 2018-07-25 13:34:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 313.03 Mbit/s

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

Loss rate: 0.06%

-- Flow 1:

Average throughput: 175.17 Mbit/s

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

Loss rate: 0.03%

-- Flow 2:

Average throughput: 145.28 Mbit/s

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

Loss rate: 0.07%

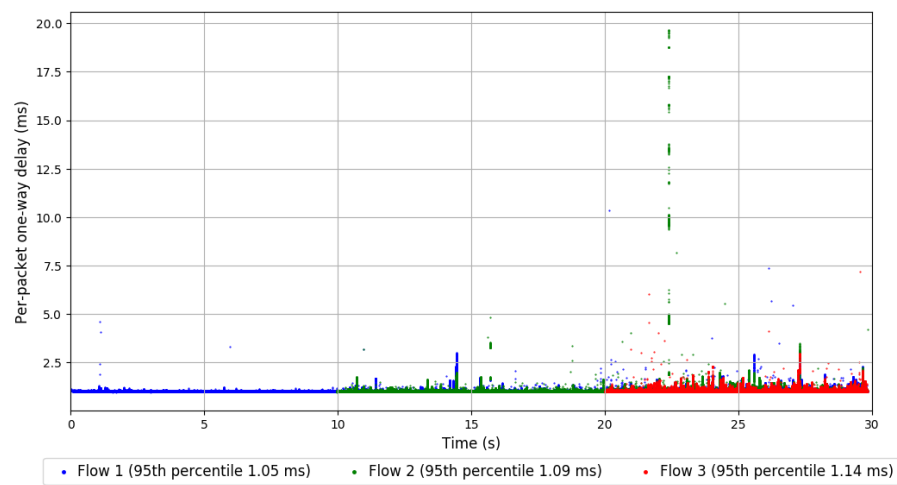
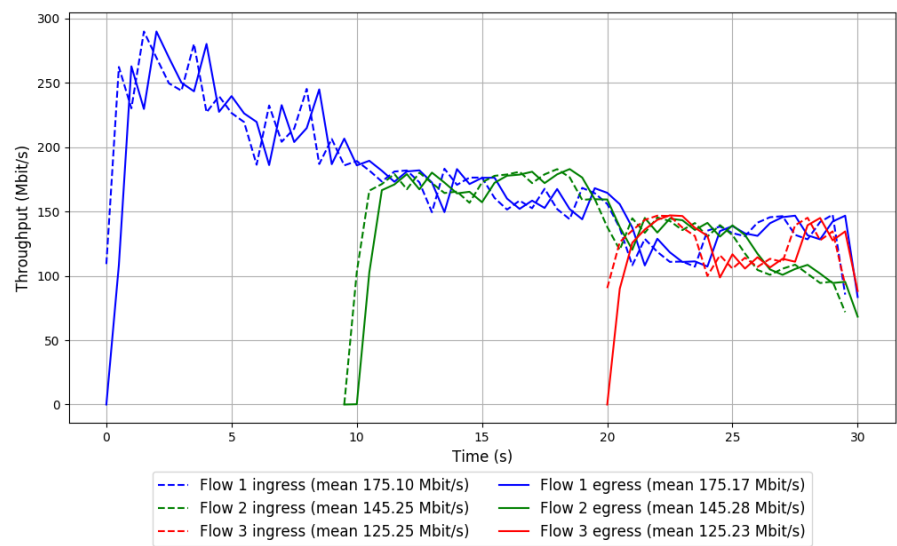
-- Flow 3:

Average throughput: 125.23 Mbit/s

95th percentile per-packet one-way delay: 1.143 ms

Loss rate: 0.21%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-07-25 09:41:27

End at: 2018-07-25 09:41:57

Local clock offset: 3.668 ms

Remote clock offset: 2.369 ms

Below is generated by plot.py at 2018-07-25 13:34:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 286.74 Mbit/s

95th percentile per-packet one-way delay: 0.983 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 158.68 Mbit/s

95th percentile per-packet one-way delay: 0.978 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 152.08 Mbit/s

95th percentile per-packet one-way delay: 0.983 ms

Loss rate: 0.06%

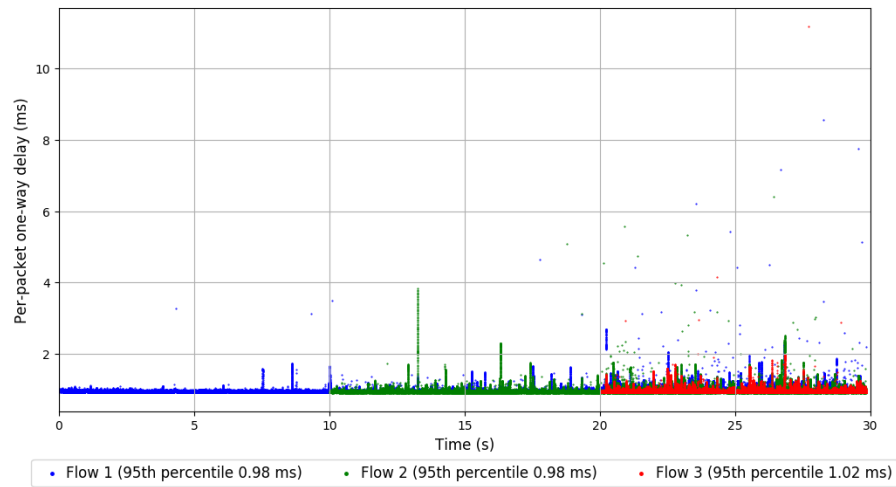
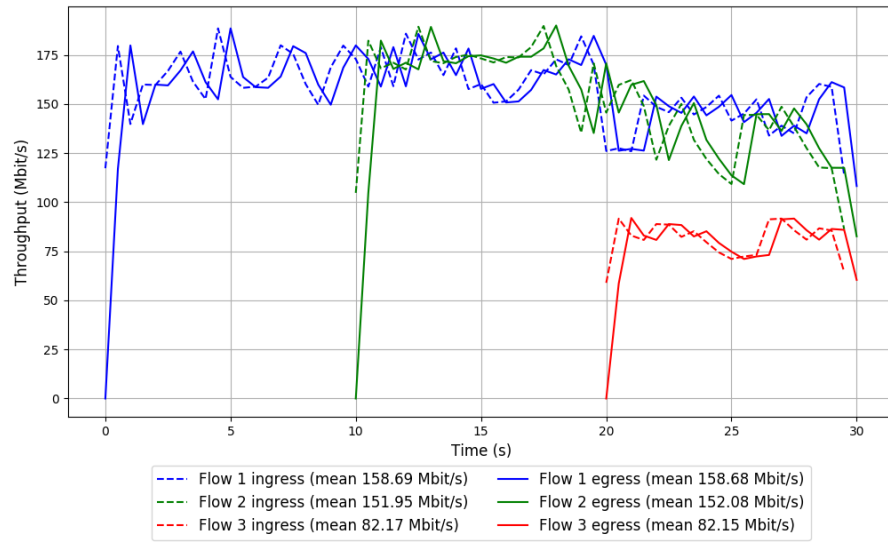
-- Flow 3:

Average throughput: 82.15 Mbit/s

95th percentile per-packet one-way delay: 1.025 ms

Loss rate: 0.25%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-07-25 10:08:18

End at: 2018-07-25 10:08:48

Local clock offset: 3.975 ms

Remote clock offset: 2.129 ms

Below is generated by plot.py at 2018-07-25 13:34:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 287.06 Mbit/s

95th percentile per-packet one-way delay: 1.076 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 157.88 Mbit/s

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

Loss rate: 0.07%

-- Flow 2:

Average throughput: 135.72 Mbit/s

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

Loss rate: 0.09%

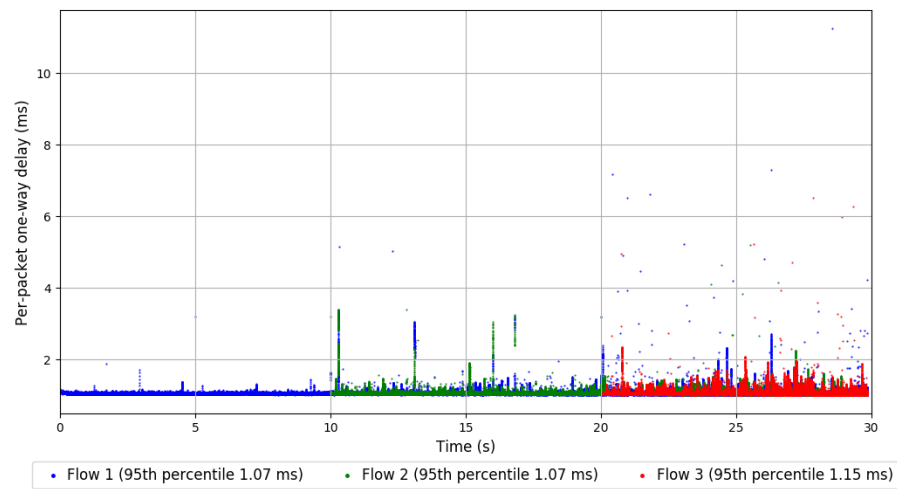
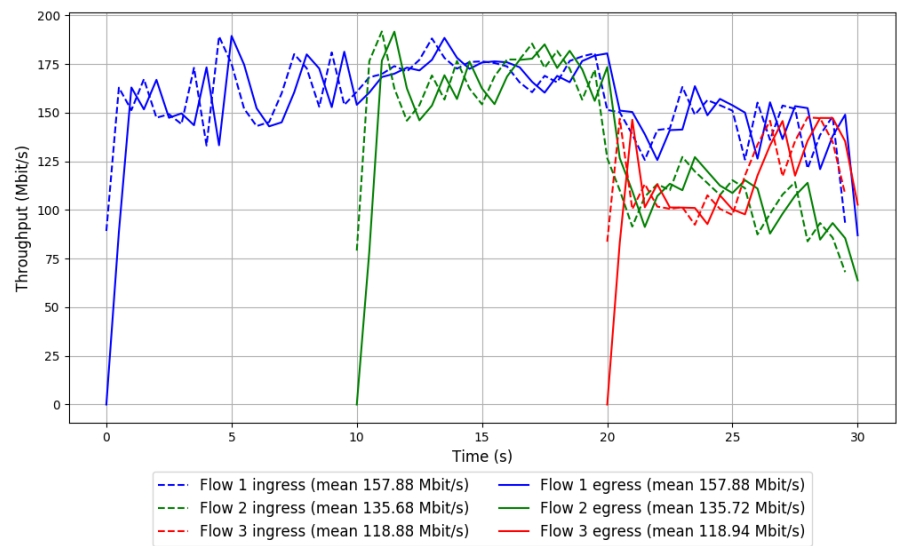
-- Flow 3:

Average throughput: 118.94 Mbit/s

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

Loss rate: 0.23%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-07-25 10:35:09

End at: 2018-07-25 10:35:39

Local clock offset: 4.228 ms

Remote clock offset: 1.987 ms

Below is generated by plot.py at 2018-07-25 13:34:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 294.23 Mbit/s

95th percentile per-packet one-way delay: 1.095 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 150.77 Mbit/s

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

Loss rate: 0.06%

-- Flow 2:

Average throughput: 146.03 Mbit/s

95th percentile per-packet one-way delay: 1.099 ms

Loss rate: 0.07%

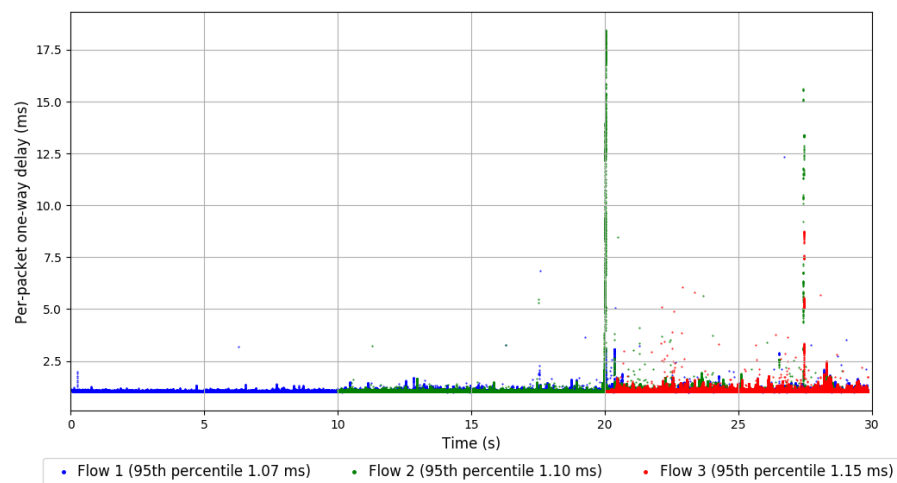
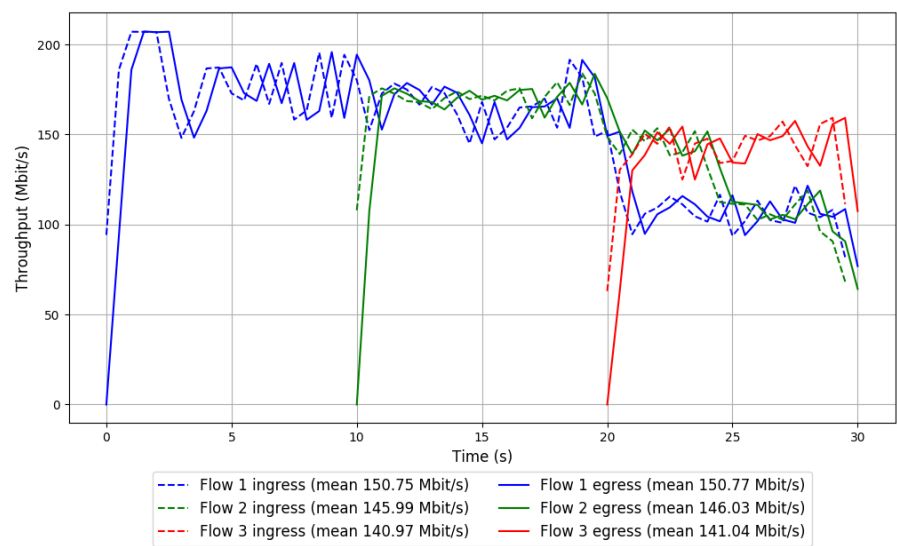
-- Flow 3:

Average throughput: 141.04 Mbit/s

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

Loss rate: 0.15%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-07-25 11:01:58

End at: 2018-07-25 11:02:28

Local clock offset: 4.404 ms

Remote clock offset: 1.855 ms

Below is generated by plot.py at 2018-07-25 13:34:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 281.84 Mbit/s

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

Loss rate: 0.08%

-- Flow 1:

Average throughput: 141.13 Mbit/s

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

Loss rate: 0.03%

-- Flow 2:

Average throughput: 154.32 Mbit/s

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

Loss rate: 0.09%

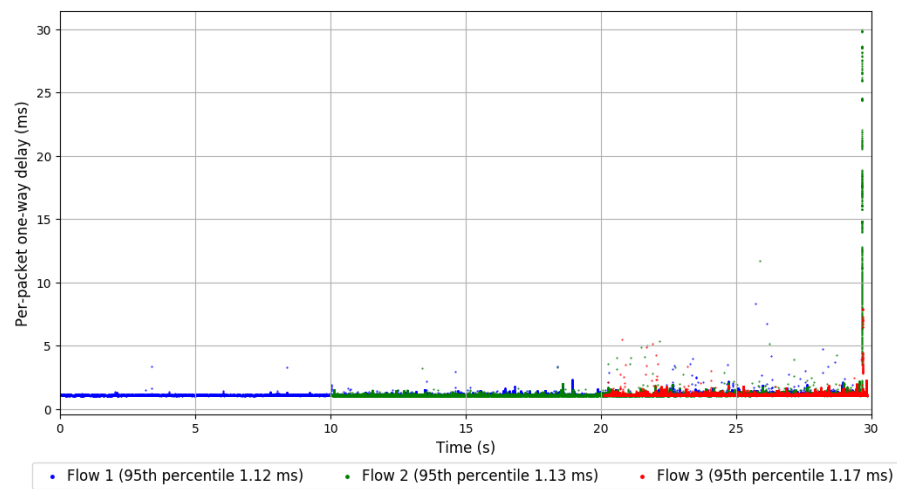
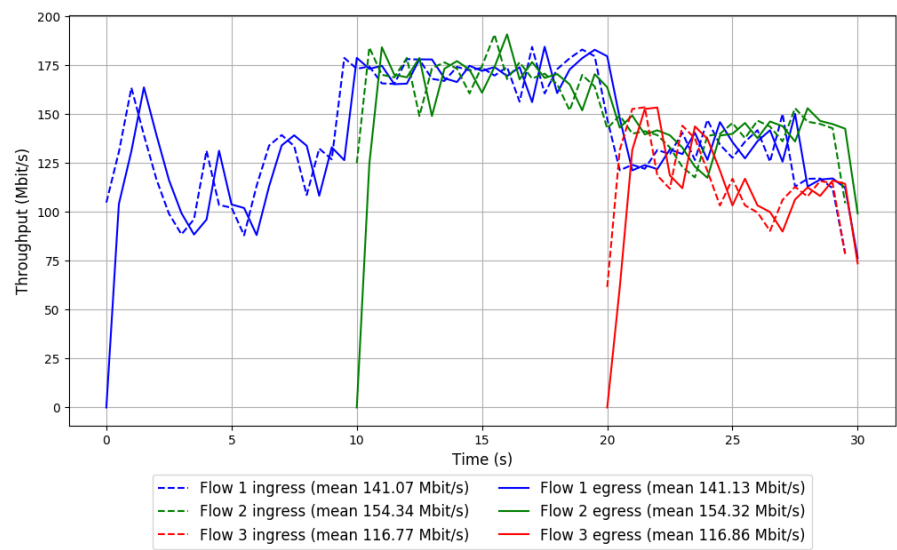
-- Flow 3:

Average throughput: 116.86 Mbit/s

95th percentile per-packet one-way delay: 1.173 ms

Loss rate: 0.22%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-07-25 11:28:55

End at: 2018-07-25 11:29:25

Local clock offset: 4.193 ms

Remote clock offset: 1.706 ms

Below is generated by plot.py at 2018-07-25 13:34:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 290.95 Mbit/s

95th percentile per-packet one-way delay: 1.049 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 148.81 Mbit/s

95th percentile per-packet one-way delay: 1.028 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 142.61 Mbit/s

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

Loss rate: 0.08%

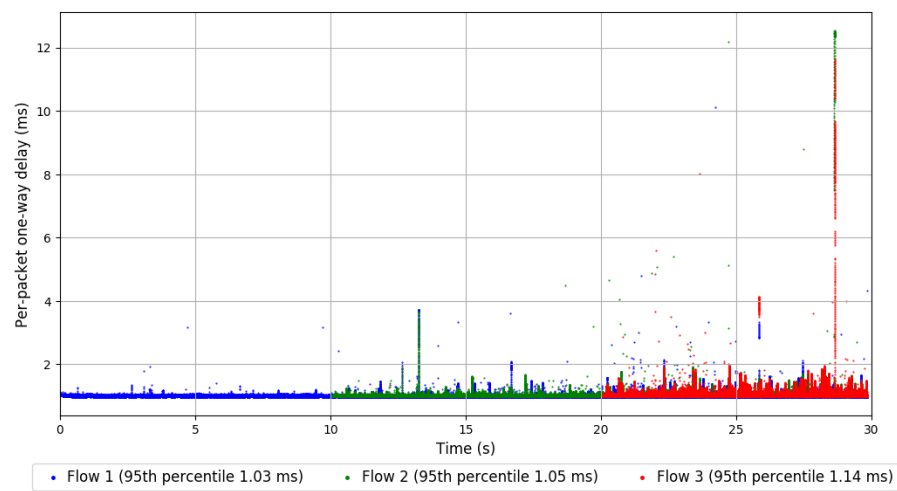
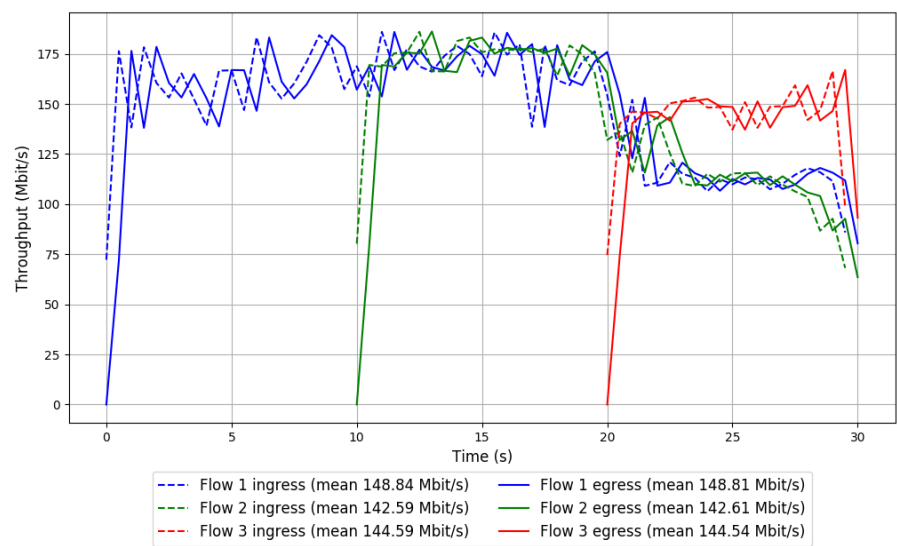
-- Flow 3:

Average throughput: 144.54 Mbit/s

95th percentile per-packet one-way delay: 1.138 ms

Loss rate: 0.19%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-07-25 11:55:49

End at: 2018-07-25 11:56:19

Local clock offset: 3.807 ms

Remote clock offset: 1.465 ms

Below is generated by plot.py at 2018-07-25 13:34:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 293.17 Mbit/s

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

Loss rate: 0.09%

-- Flow 1:

Average throughput: 156.60 Mbit/s

95th percentile per-packet one-way delay: 1.134 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 150.07 Mbit/s

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

Loss rate: 0.07%

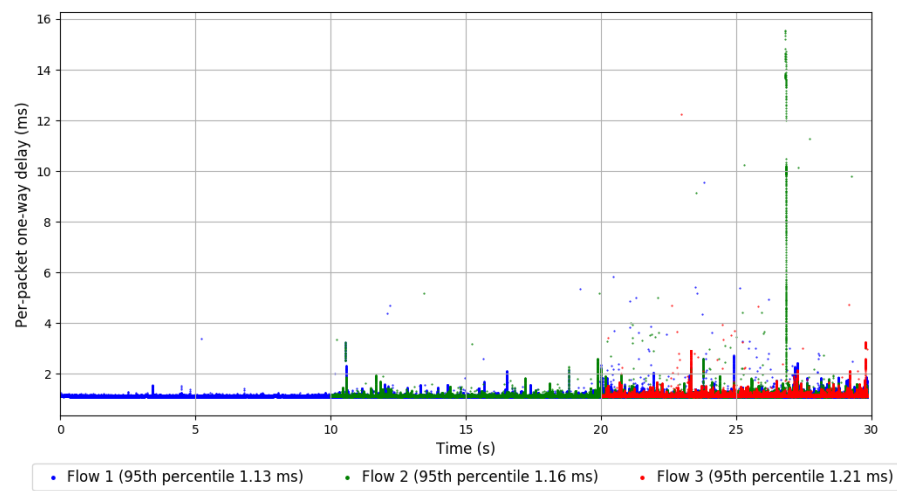
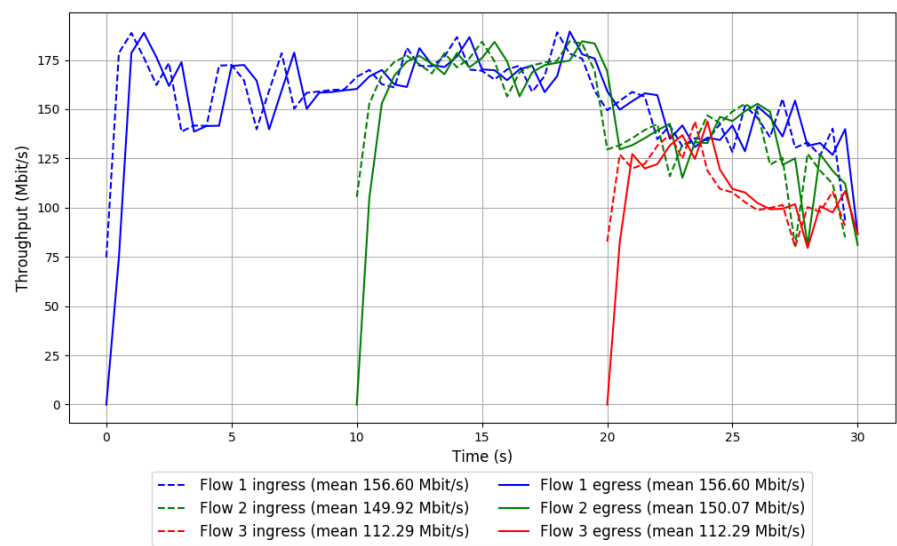
-- Flow 3:

Average throughput: 112.29 Mbit/s

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

Loss rate: 0.18%

Run 10: Report of Indigo — Data Link

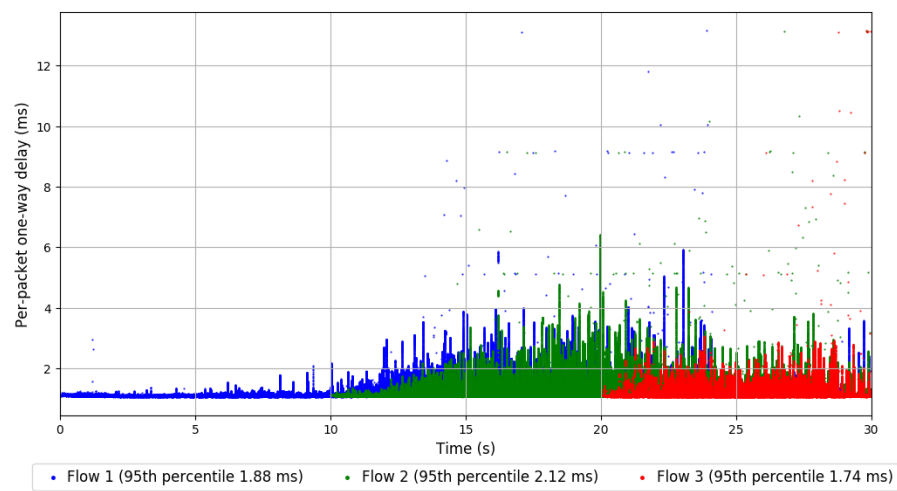
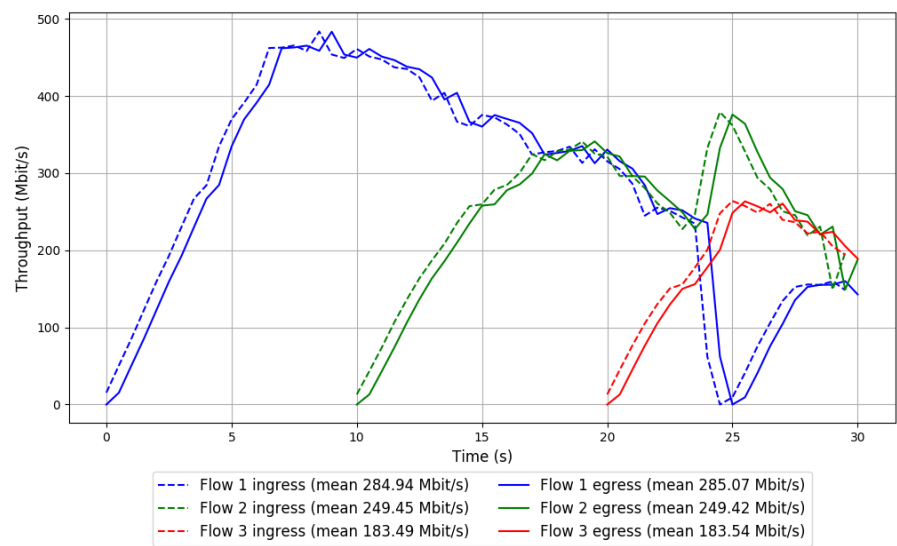


```
Run 1: Statistics of LEDBAT

Start at: 2018-07-25 07:35:58
End at: 2018-07-25 07:36:28
Local clock offset: 3.555 ms
Remote clock offset: 0.825 ms

# Below is generated by plot.py at 2018-07-25 13:34:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 511.95 Mbit/s
95th percentile per-packet one-way delay: 1.948 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 285.07 Mbit/s
95th percentile per-packet one-way delay: 1.882 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 249.42 Mbit/s
95th percentile per-packet one-way delay: 2.122 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 183.54 Mbit/s
95th percentile per-packet one-way delay: 1.742 ms
Loss rate: 0.16%
```


Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-07-25 08:02:54

End at: 2018-07-25 08:03:24

Local clock offset: 3.215 ms

Remote clock offset: 1.642 ms

Below is generated by plot.py at 2018-07-25 13:34:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 500.55 Mbit/s

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

Loss rate: 0.08%

-- Flow 1:

Average throughput: 296.28 Mbit/s

95th percentile per-packet one-way delay: 1.639 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 236.32 Mbit/s

95th percentile per-packet one-way delay: 1.924 ms

Loss rate: 0.10%

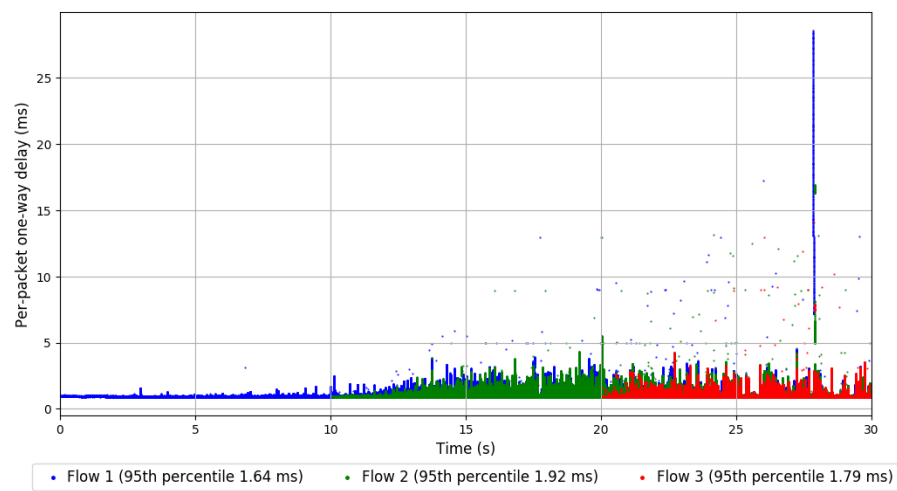
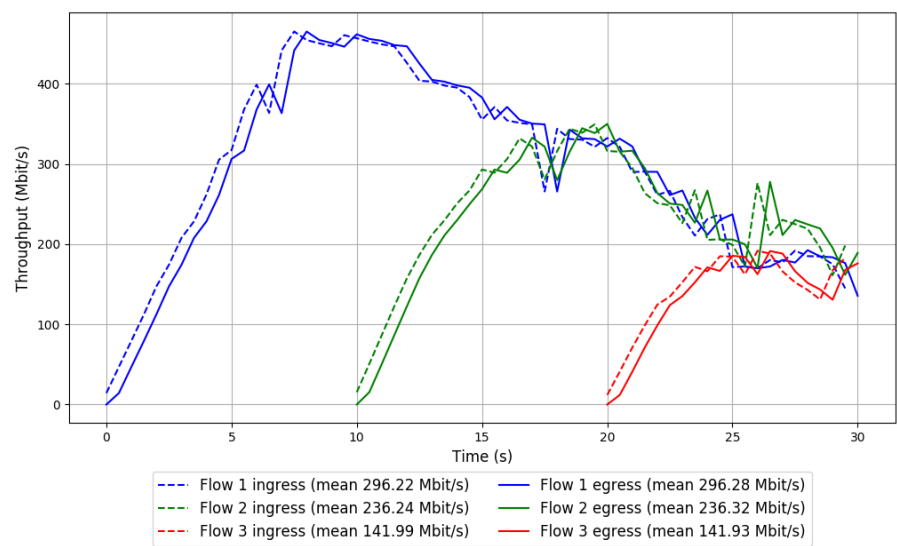
-- Flow 3:

Average throughput: 141.93 Mbit/s

95th percentile per-packet one-way delay: 1.792 ms

Loss rate: 0.24%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-07-25 08:29:44

End at: 2018-07-25 08:30:14

Local clock offset: 3.194 ms

Remote clock offset: 2.151 ms

Below is generated by plot.py at 2018-07-25 13:34:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 497.26 Mbit/s

95th percentile per-packet one-way delay: 1.835 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 300.11 Mbit/s

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

Loss rate: 0.07%

-- Flow 2:

Average throughput: 223.24 Mbit/s

95th percentile per-packet one-way delay: 2.091 ms

Loss rate: 0.08%

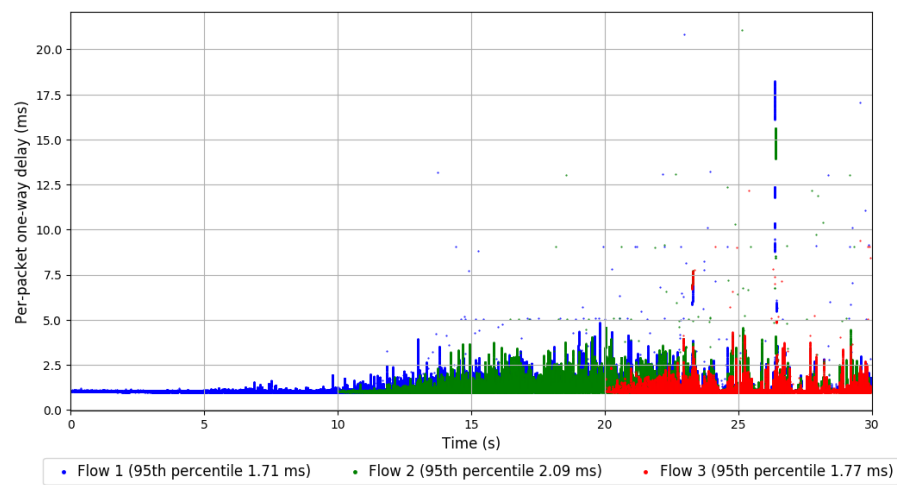
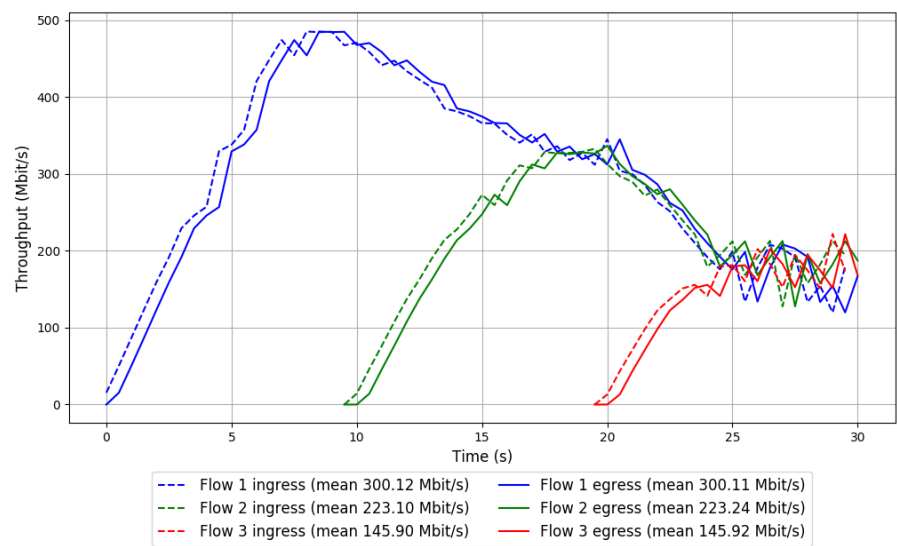
-- Flow 3:

Average throughput: 145.92 Mbit/s

95th percentile per-packet one-way delay: 1.773 ms

Loss rate: 0.19%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-07-25 08:56:44

End at: 2018-07-25 08:57:14

Local clock offset: 3.675 ms

Remote clock offset: 2.4 ms

Below is generated by plot.py at 2018-07-25 13:35:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 498.06 Mbit/s

95th percentile per-packet one-way delay: 1.895 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 266.29 Mbit/s

95th percentile per-packet one-way delay: 1.762 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 260.52 Mbit/s

95th percentile per-packet one-way delay: 2.097 ms

Loss rate: 0.07%

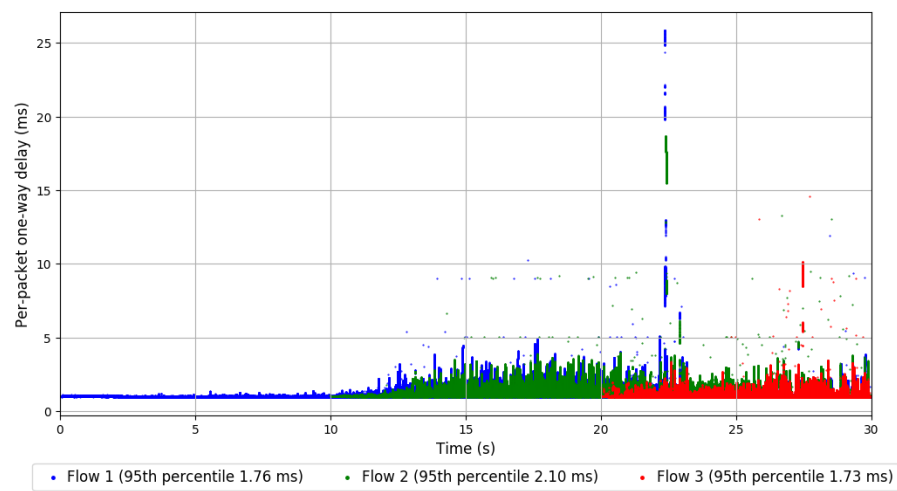
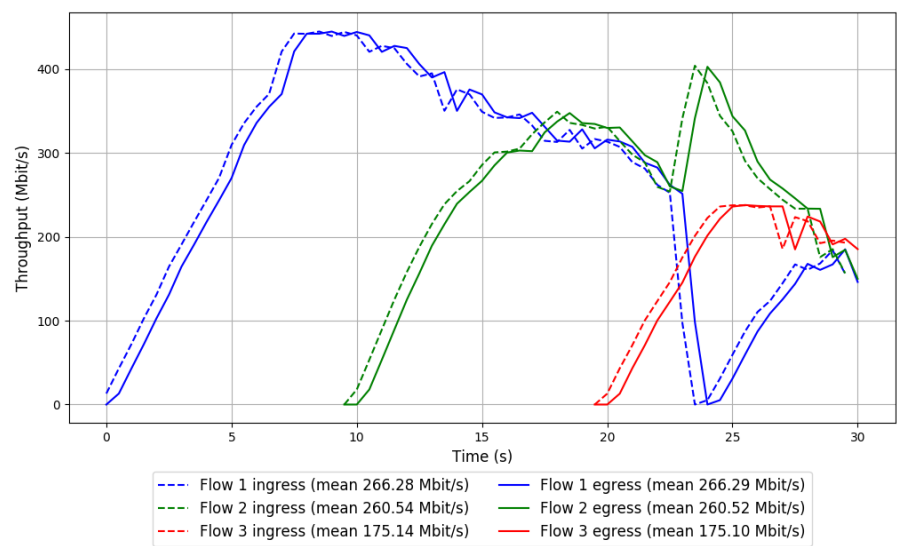
-- Flow 3:

Average throughput: 175.10 Mbit/s

95th percentile per-packet one-way delay: 1.730 ms

Loss rate: 0.22%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-07-25 09:23:37

End at: 2018-07-25 09:24:07

Local clock offset: 3.892 ms

Remote clock offset: 2.497 ms

Below is generated by plot.py at 2018-07-25 13:37:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 505.77 Mbit/s

95th percentile per-packet one-way delay: 1.639 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 308.61 Mbit/s

95th percentile per-packet one-way delay: 1.557 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 205.14 Mbit/s

95th percentile per-packet one-way delay: 1.786 ms

Loss rate: 0.06%

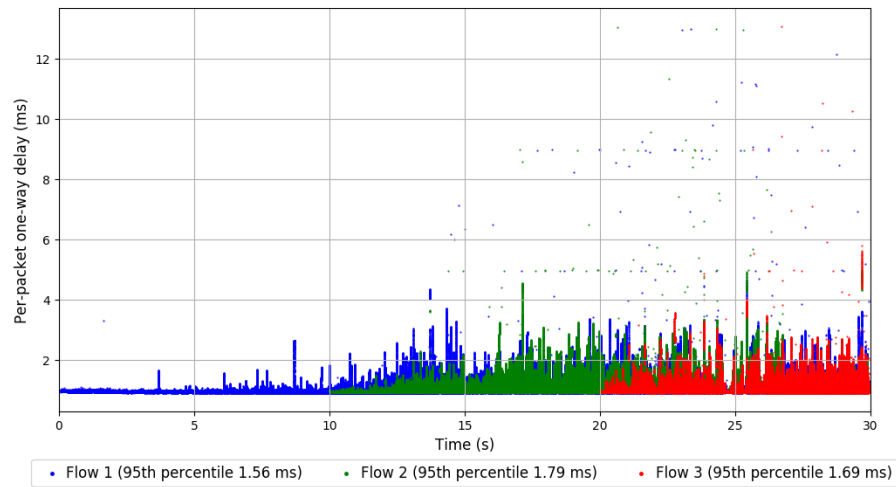
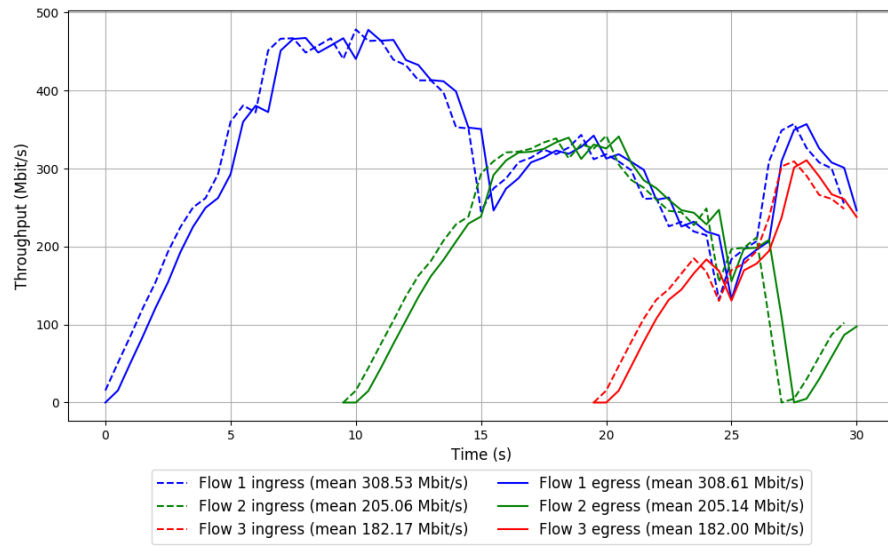
-- Flow 3:

Average throughput: 182.00 Mbit/s

95th percentile per-packet one-way delay: 1.686 ms

Loss rate: 0.30%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-07-25 09:50:30

End at: 2018-07-25 09:51:00

Local clock offset: 3.641 ms

Remote clock offset: 2.255 ms

Below is generated by plot.py at 2018-07-25 13:37:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 488.13 Mbit/s

95th percentile per-packet one-way delay: 1.673 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 287.77 Mbit/s

95th percentile per-packet one-way delay: 1.601 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 226.45 Mbit/s

95th percentile per-packet one-way delay: 1.807 ms

Loss rate: 0.07%

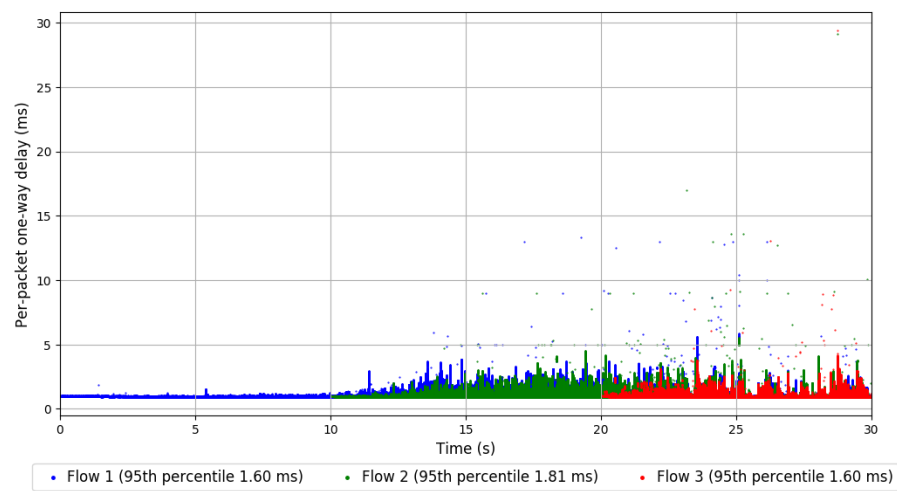
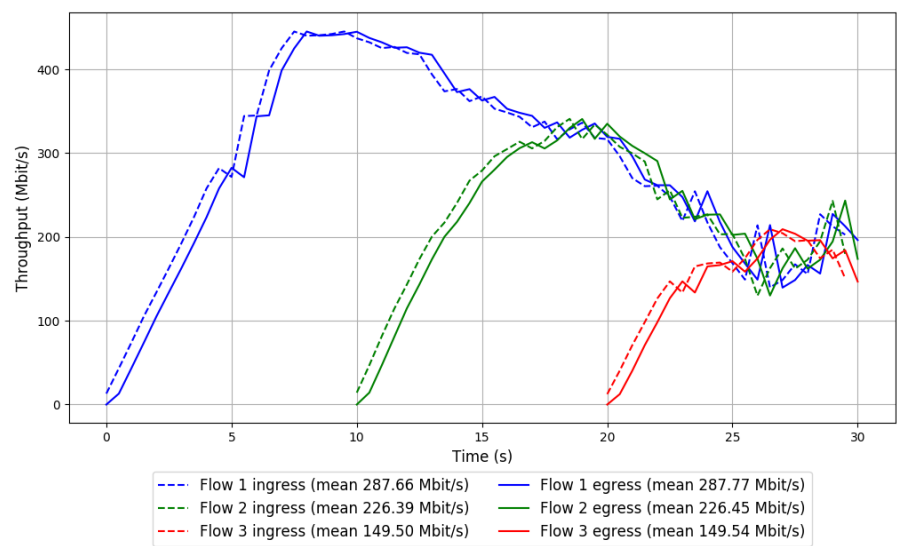
-- Flow 3:

Average throughput: 149.54 Mbit/s

95th percentile per-packet one-way delay: 1.596 ms

Loss rate: 0.16%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-07-25 10:17:25

End at: 2018-07-25 10:17:55

Local clock offset: 4.116 ms

Remote clock offset: 2.063 ms

Below is generated by plot.py at 2018-07-25 13:39:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 485.61 Mbit/s

95th percentile per-packet one-way delay: 1.902 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 284.71 Mbit/s

95th percentile per-packet one-way delay: 1.740 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 228.57 Mbit/s

95th percentile per-packet one-way delay: 2.154 ms

Loss rate: 0.09%

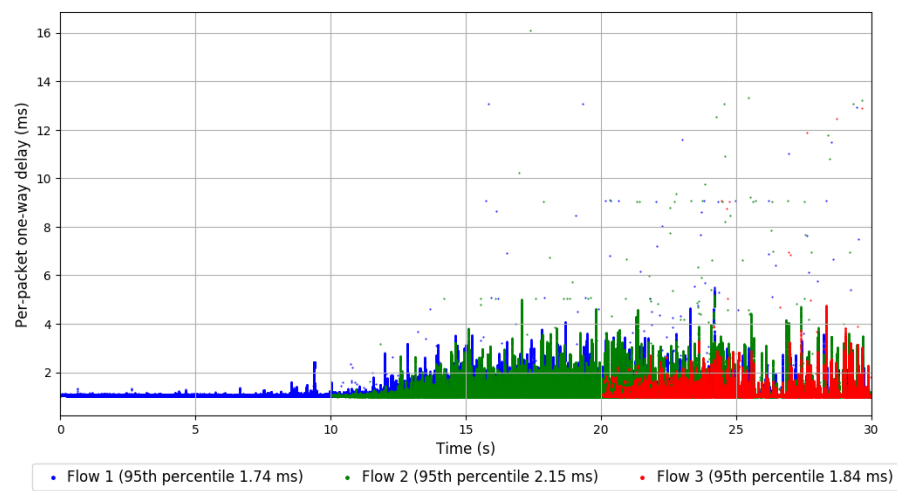
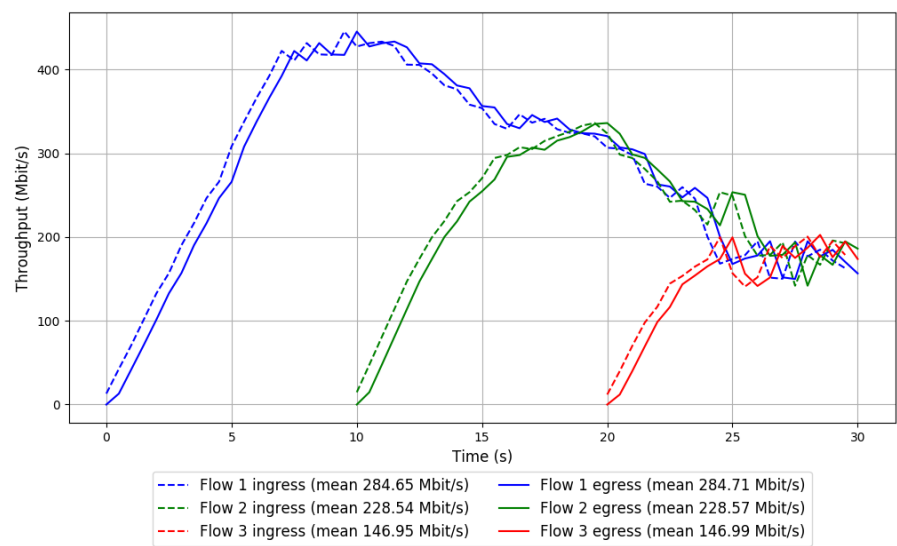
-- Flow 3:

Average throughput: 146.99 Mbit/s

95th percentile per-packet one-way delay: 1.838 ms

Loss rate: 0.20%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-07-25 10:44:13

End at: 2018-07-25 10:44:43

Local clock offset: 4.293 ms

Remote clock offset: 1.964 ms

Below is generated by plot.py at 2018-07-25 13:39:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 491.95 Mbit/s

95th percentile per-packet one-way delay: 1.728 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 290.90 Mbit/s

95th percentile per-packet one-way delay: 1.643 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 222.93 Mbit/s

95th percentile per-packet one-way delay: 1.802 ms

Loss rate: 0.12%

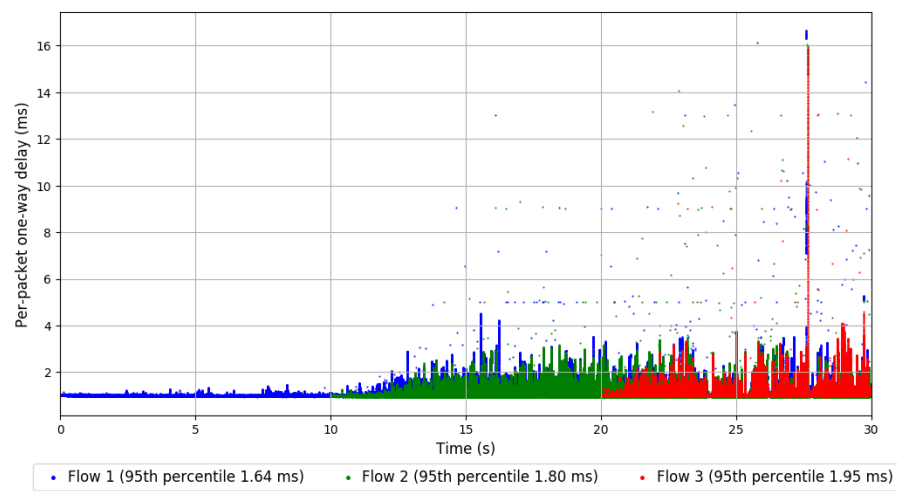
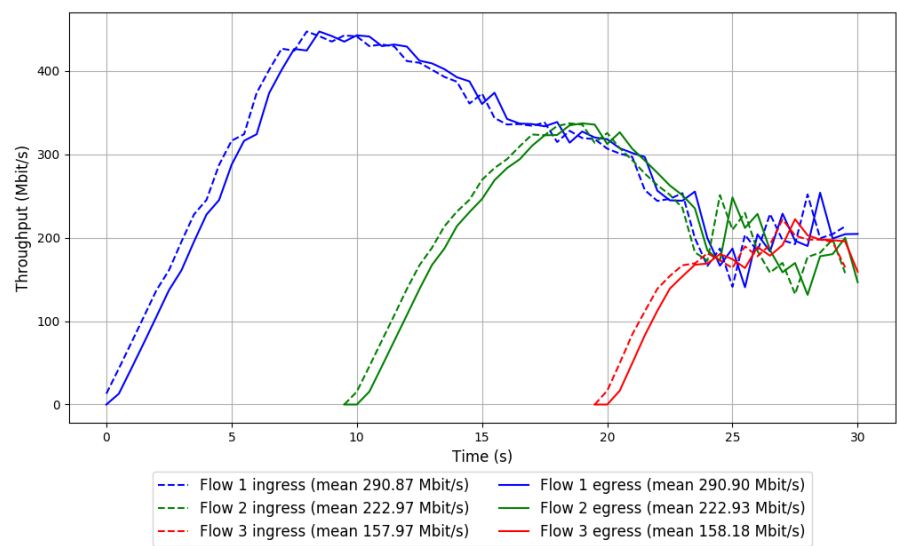
-- Flow 3:

Average throughput: 158.18 Mbit/s

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

Loss rate: 0.17%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-07-25 11:11:05

End at: 2018-07-25 11:11:35

Local clock offset: 4.232 ms

Remote clock offset: 1.868 ms

Below is generated by plot.py at 2018-07-25 13:40:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 499.74 Mbit/s

95th percentile per-packet one-way delay: 1.699 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 303.58 Mbit/s

95th percentile per-packet one-way delay: 1.625 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 204.61 Mbit/s

95th percentile per-packet one-way delay: 1.828 ms

Loss rate: 0.07%

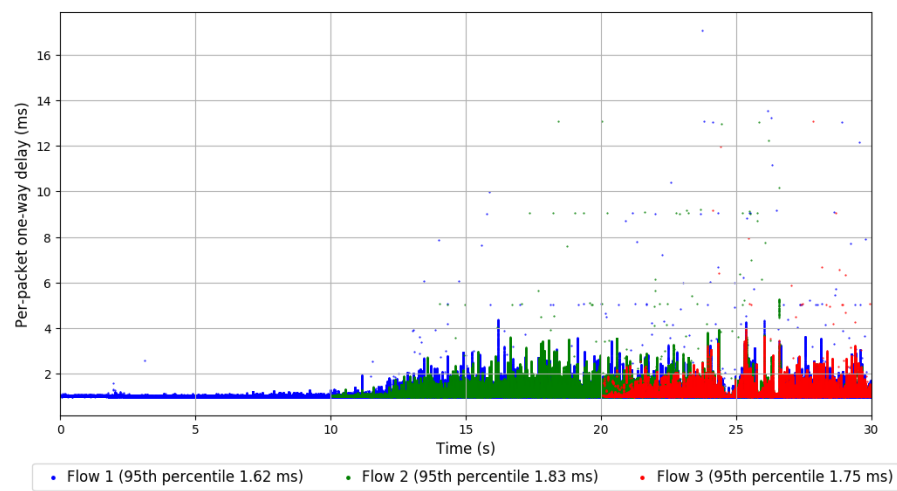
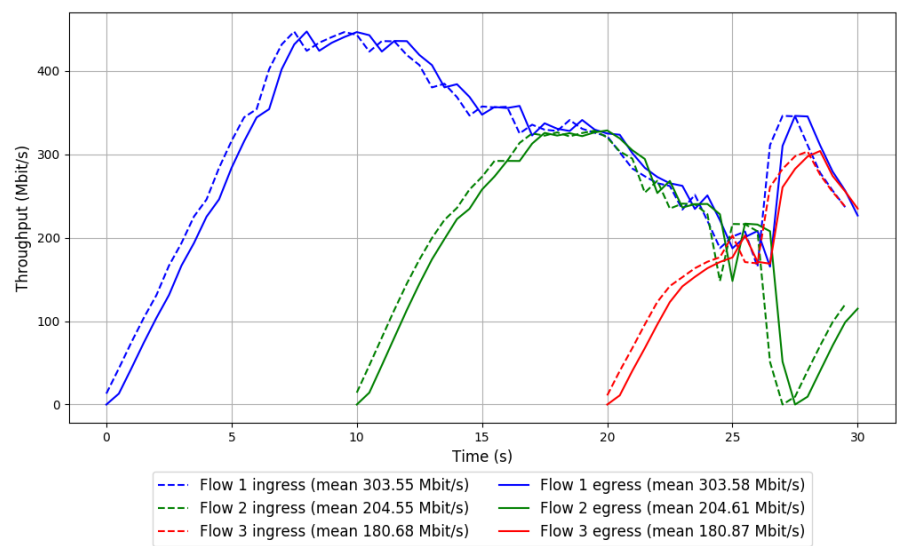
-- Flow 3:

Average throughput: 180.87 Mbit/s

95th percentile per-packet one-way delay: 1.748 ms

Loss rate: 0.09%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-07-25 11:37:58

End at: 2018-07-25 11:38:28

Local clock offset: 4.026 ms

Remote clock offset: 1.621 ms

Below is generated by plot.py at 2018-07-25 13:40:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 479.27 Mbit/s

95th percentile per-packet one-way delay: 1.795 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 281.65 Mbit/s

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

Loss rate: 0.03%

-- Flow 2:

Average throughput: 229.63 Mbit/s

95th percentile per-packet one-way delay: 1.974 ms

Loss rate: 0.06%

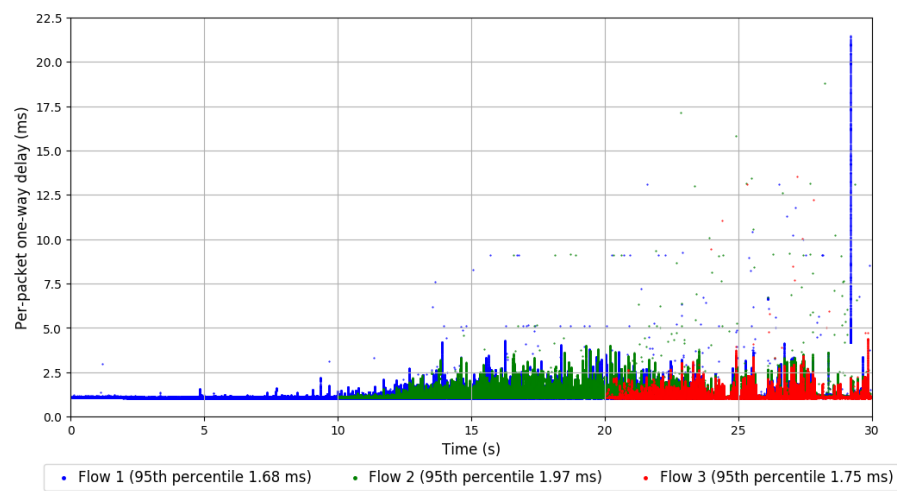
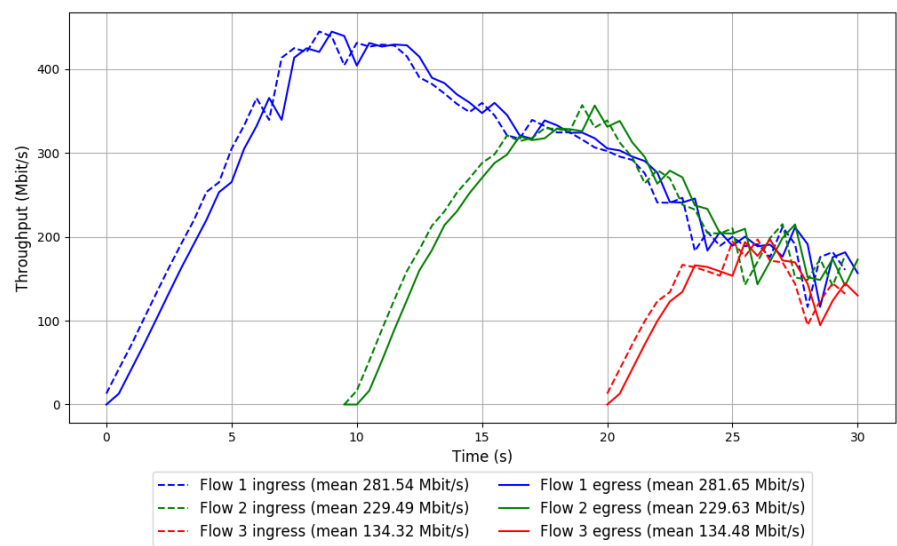
-- Flow 3:

Average throughput: 134.48 Mbit/s

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

Loss rate: 0.08%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-07-25 07:37:39

End at: 2018-07-25 07:38:09

Local clock offset: 3.536 ms

Remote clock offset: 0.894 ms

Below is generated by plot.py at 2018-07-25 13:44:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 844.60 Mbit/s

95th percentile per-packet one-way delay: 3.162 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 541.16 Mbit/s

95th percentile per-packet one-way delay: 3.162 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 396.16 Mbit/s

95th percentile per-packet one-way delay: 3.188 ms

Loss rate: 0.08%

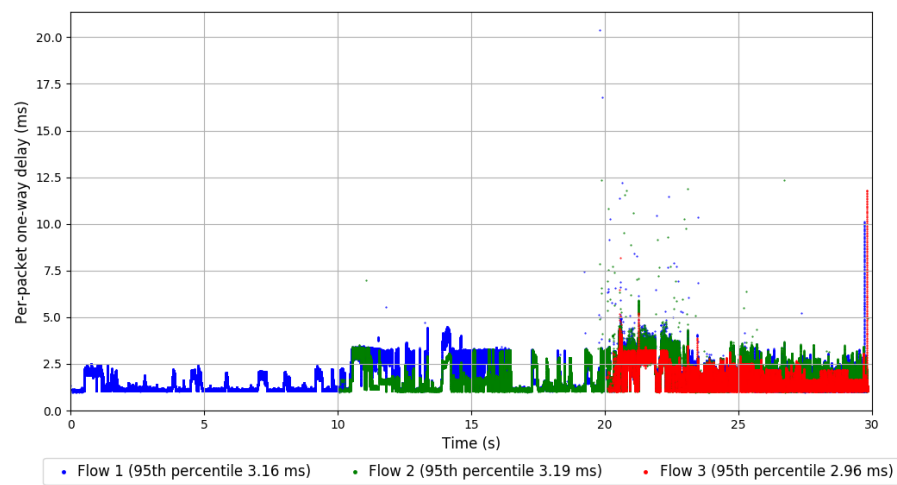
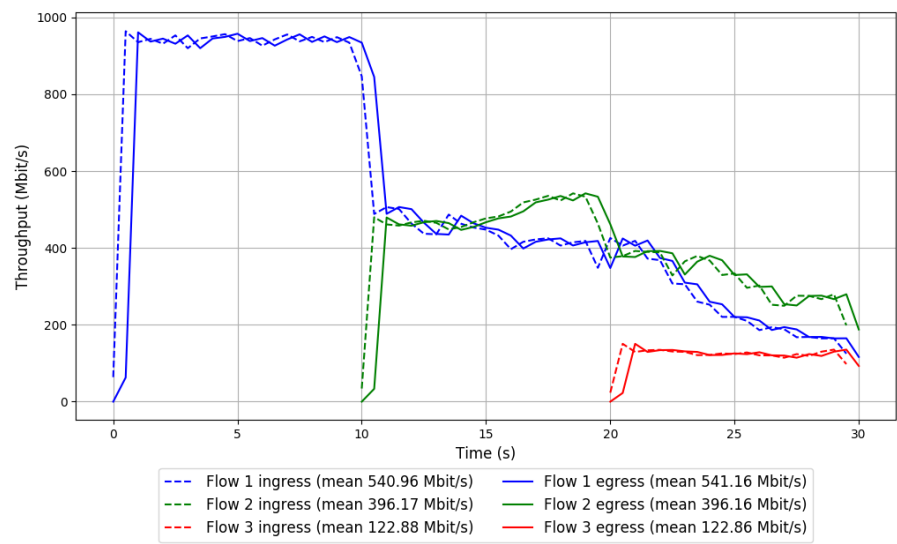
-- Flow 3:

Average throughput: 122.86 Mbit/s

95th percentile per-packet one-way delay: 2.964 ms

Loss rate: 0.22%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-07-25 08:04:33

End at: 2018-07-25 08:05:03

Local clock offset: 3.297 ms

Remote clock offset: 1.672 ms

Below is generated by plot.py at 2018-07-25 13:44:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 765.97 Mbit/s

95th percentile per-packet one-way delay: 2.000 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 705.27 Mbit/s

95th percentile per-packet one-way delay: 2.007 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 80.88 Mbit/s

95th percentile per-packet one-way delay: 1.609 ms

Loss rate: 0.12%

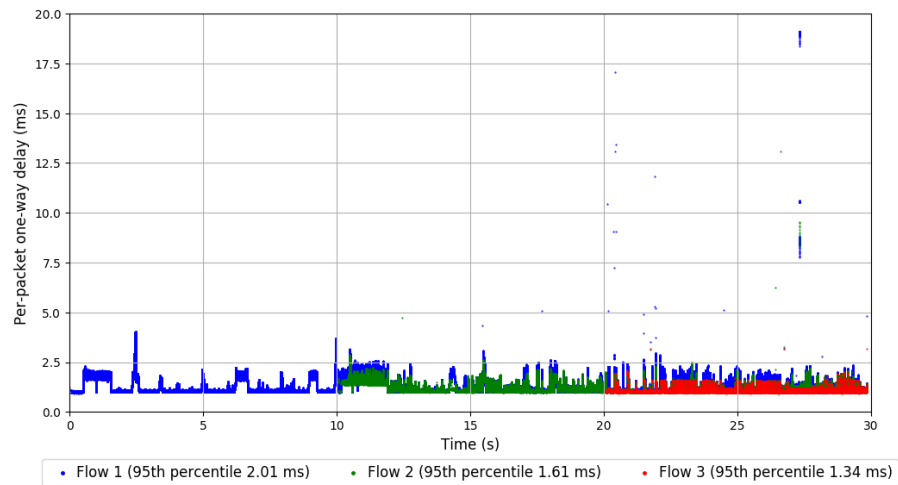
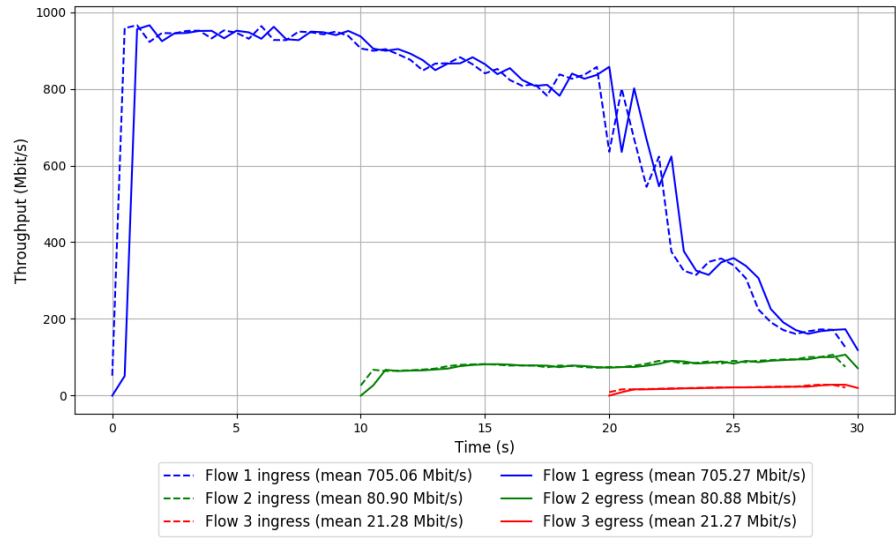
-- Flow 3:

Average throughput: 21.27 Mbit/s

95th percentile per-packet one-way delay: 1.345 ms

Loss rate: 0.28%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-07-25 08:31:23

End at: 2018-07-25 08:31:53

Local clock offset: 3.187 ms

Remote clock offset: 2.175 ms

Below is generated by plot.py at 2018-07-25 13:46:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 812.47 Mbit/s

95th percentile per-packet one-way delay: 2.956 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 532.60 Mbit/s

95th percentile per-packet one-way delay: 2.941 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 337.61 Mbit/s

95th percentile per-packet one-way delay: 2.994 ms

Loss rate: 0.06%

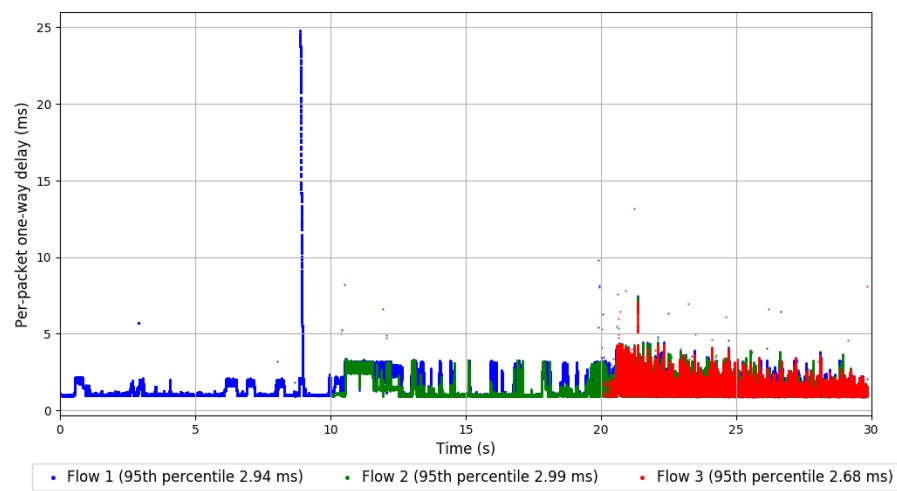
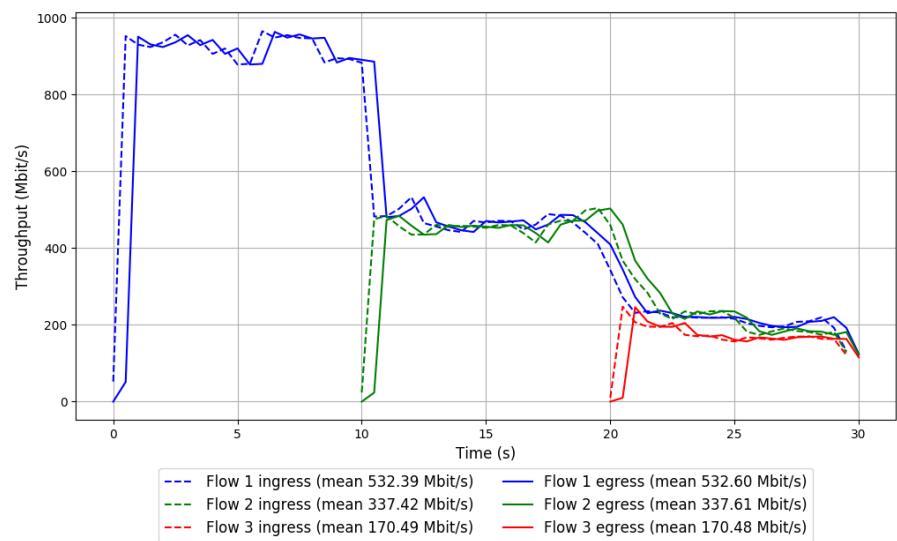
-- Flow 3:

Average throughput: 170.48 Mbit/s

95th percentile per-packet one-way delay: 2.676 ms

Loss rate: 0.20%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-07-25 08:58:24

End at: 2018-07-25 08:58:54

Local clock offset: 3.583 ms

Remote clock offset: 2.373 ms

Below is generated by plot.py at 2018-07-25 13:46:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 823.85 Mbit/s

95th percentile per-packet one-way delay: 2.808 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 530.16 Mbit/s

95th percentile per-packet one-way delay: 2.815 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 370.57 Mbit/s

95th percentile per-packet one-way delay: 2.853 ms

Loss rate: 0.04%

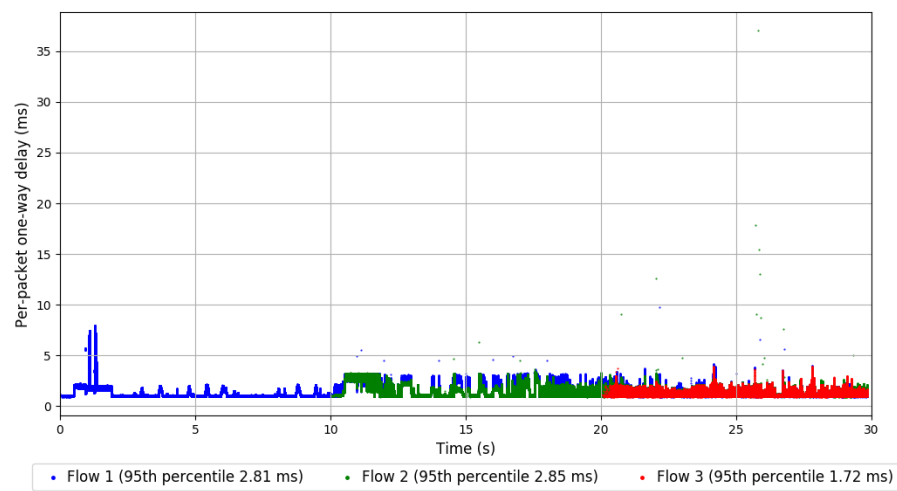
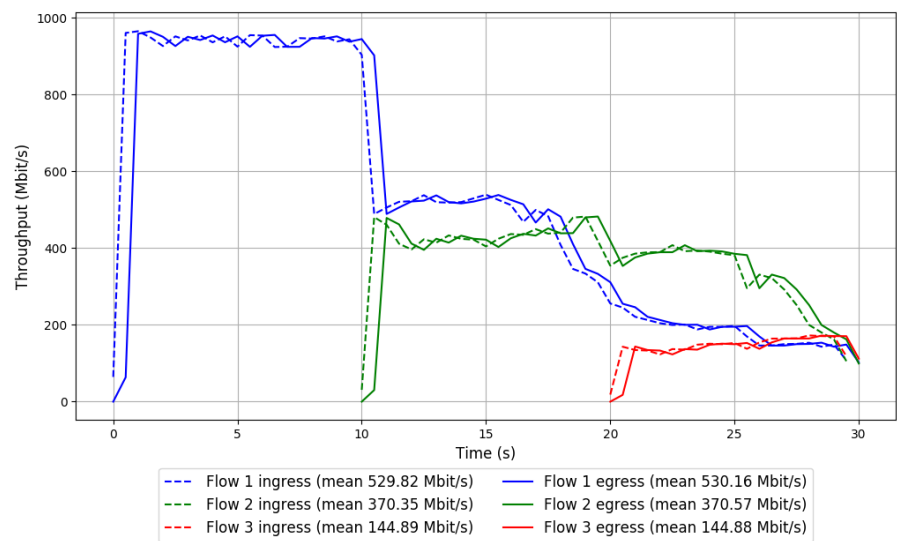
-- Flow 3:

Average throughput: 144.88 Mbit/s

95th percentile per-packet one-way delay: 1.716 ms

Loss rate: 0.23%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-07-25 09:25:17

End at: 2018-07-25 09:25:47

Local clock offset: 3.987 ms

Remote clock offset: 2.469 ms

Below is generated by plot.py at 2018-07-25 13:48:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 804.86 Mbit/s

95th percentile per-packet one-way delay: 2.275 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 653.17 Mbit/s

95th percentile per-packet one-way delay: 2.284 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 154.66 Mbit/s

95th percentile per-packet one-way delay: 2.185 ms

Loss rate: 0.12%

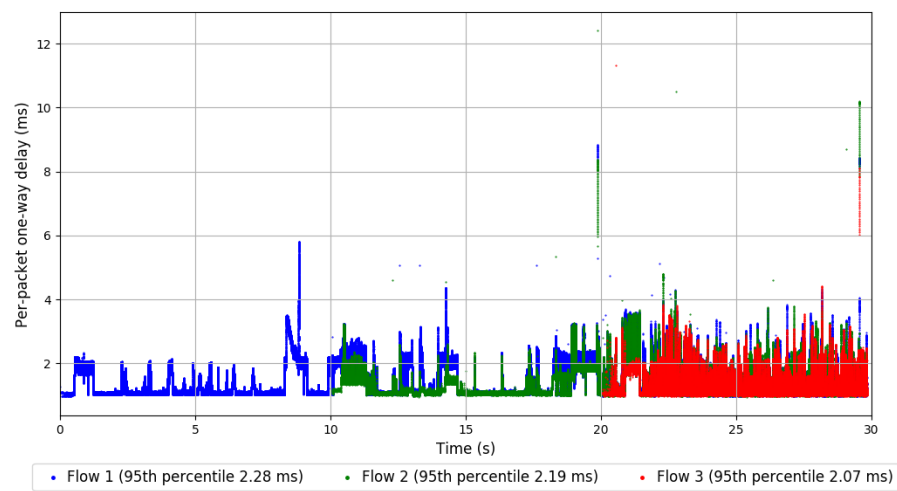
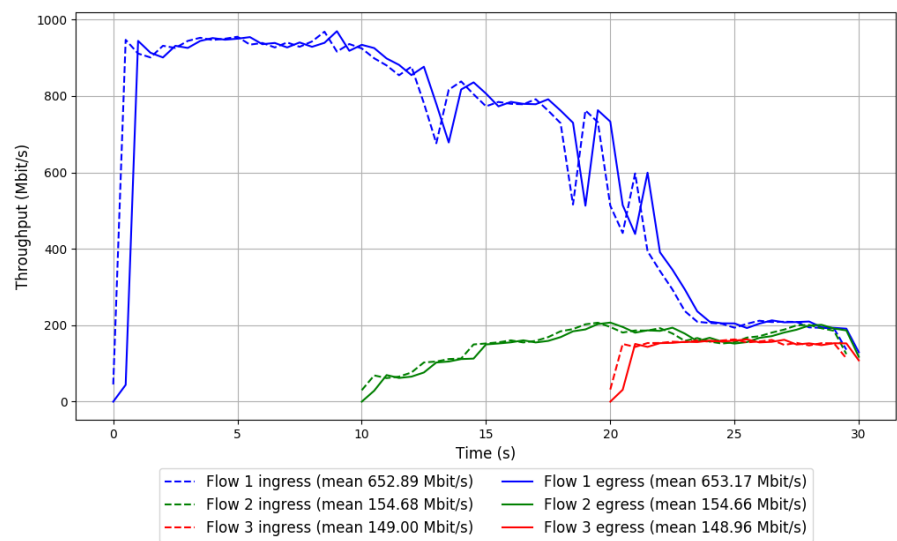
-- Flow 3:

Average throughput: 148.96 Mbit/s

95th percentile per-packet one-way delay: 2.072 ms

Loss rate: 0.21%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-07-25 09:52:09

End at: 2018-07-25 09:52:39

Local clock offset: 3.732 ms

Remote clock offset: 2.227 ms

Below is generated by plot.py at 2018-07-25 13:49:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 875.43 Mbit/s

95th percentile per-packet one-way delay: 2.978 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 653.23 Mbit/s

95th percentile per-packet one-way delay: 2.865 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 251.68 Mbit/s

95th percentile per-packet one-way delay: 3.124 ms

Loss rate: 0.04%

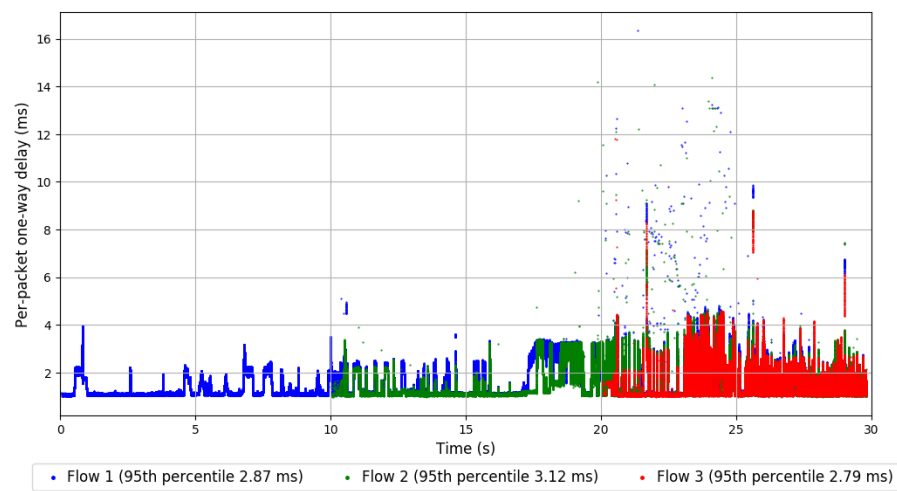
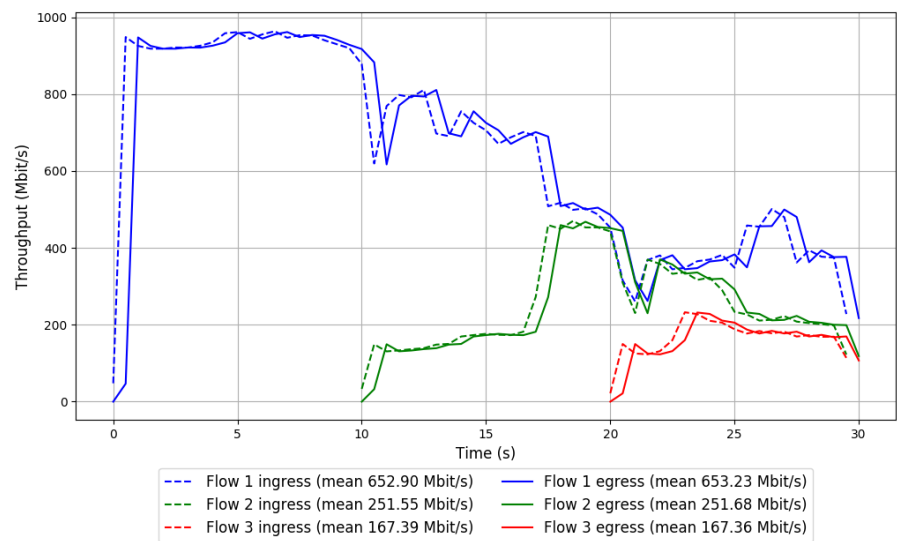
-- Flow 3:

Average throughput: 167.36 Mbit/s

95th percentile per-packet one-way delay: 2.789 ms

Loss rate: 0.22%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-07-25 10:19:04

End at: 2018-07-25 10:19:34

Local clock offset: 4.136 ms

Remote clock offset: 2.044 ms

Below is generated by plot.py at 2018-07-25 13:49:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 699.65 Mbit/s

95th percentile per-packet one-way delay: 2.378 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 529.65 Mbit/s

95th percentile per-packet one-way delay: 2.382 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 214.44 Mbit/s

95th percentile per-packet one-way delay: 2.413 ms

Loss rate: 0.07%

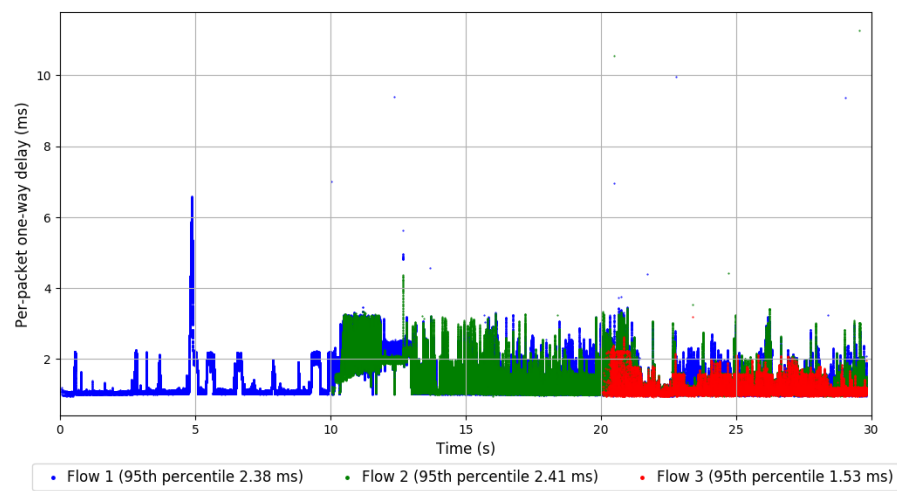
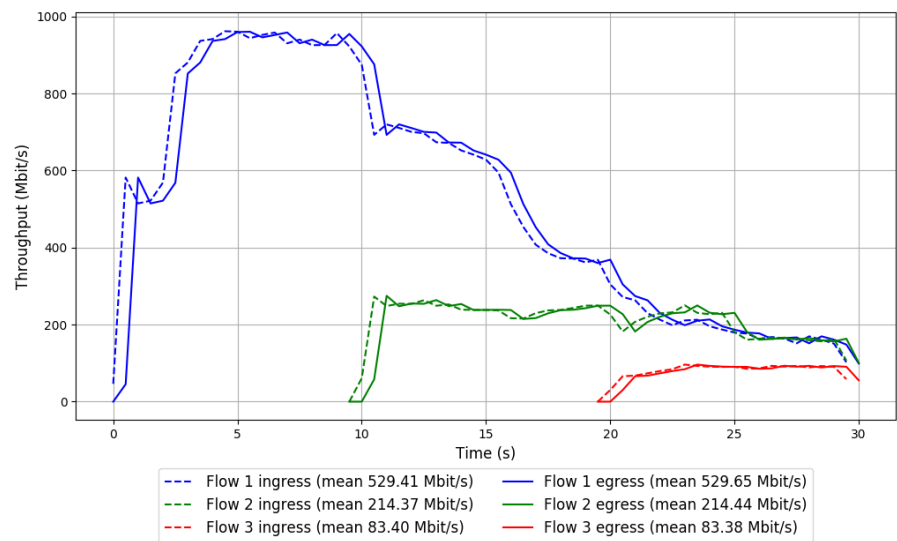
-- Flow 3:

Average throughput: 83.38 Mbit/s

95th percentile per-packet one-way delay: 1.526 ms

Loss rate: 0.21%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-07-25 10:45:53

End at: 2018-07-25 10:46:23

Local clock offset: 4.324 ms

Remote clock offset: 1.962 ms

Below is generated by plot.py at 2018-07-25 13:49:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 794.60 Mbit/s

95th percentile per-packet one-way delay: 2.432 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 598.66 Mbit/s

95th percentile per-packet one-way delay: 2.465 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 265.50 Mbit/s

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

Loss rate: 0.05%

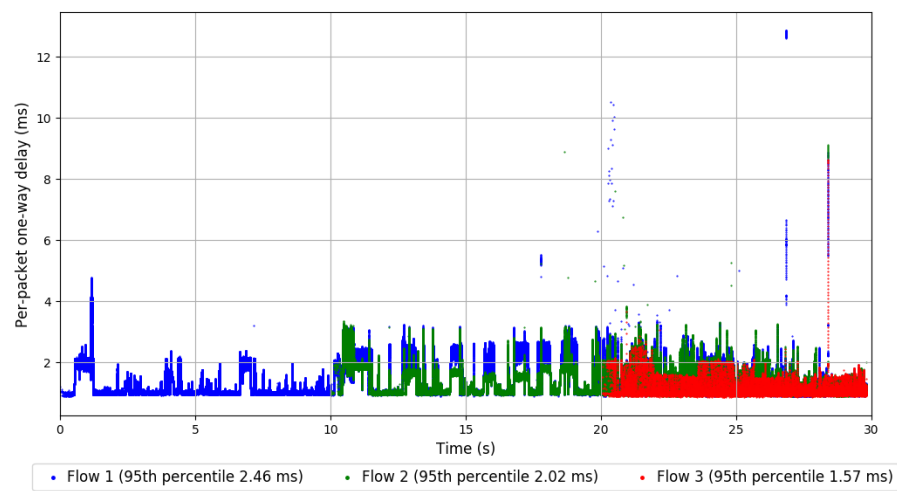
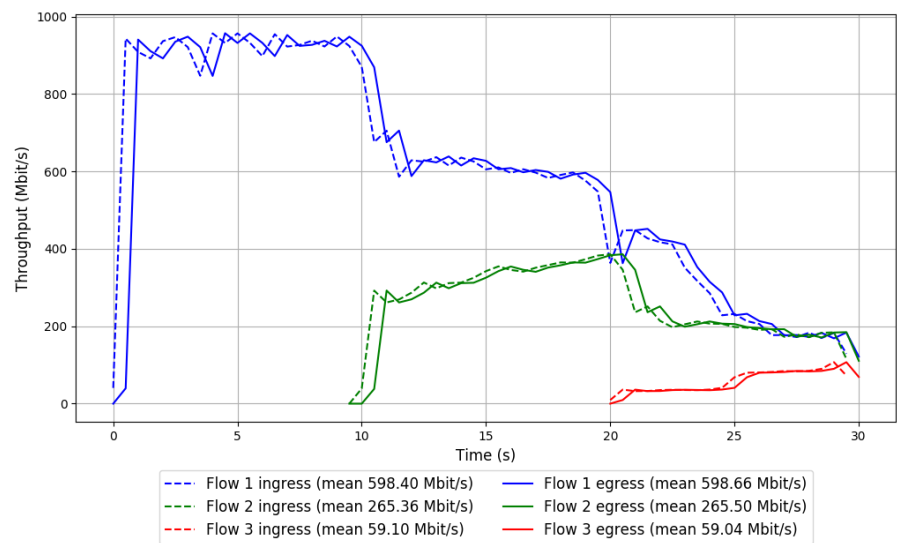
-- Flow 3:

Average throughput: 59.04 Mbit/s

95th percentile per-packet one-way delay: 1.569 ms

Loss rate: 0.31%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-07-25 11:12:46

End at: 2018-07-25 11:13:16

Local clock offset: 4.215 ms

Remote clock offset: 1.808 ms

Below is generated by plot.py at 2018-07-25 13:53:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 830.02 Mbit/s

95th percentile per-packet one-way delay: 2.189 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 699.78 Mbit/s

95th percentile per-packet one-way delay: 2.198 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 145.95 Mbit/s

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

Loss rate: 0.08%

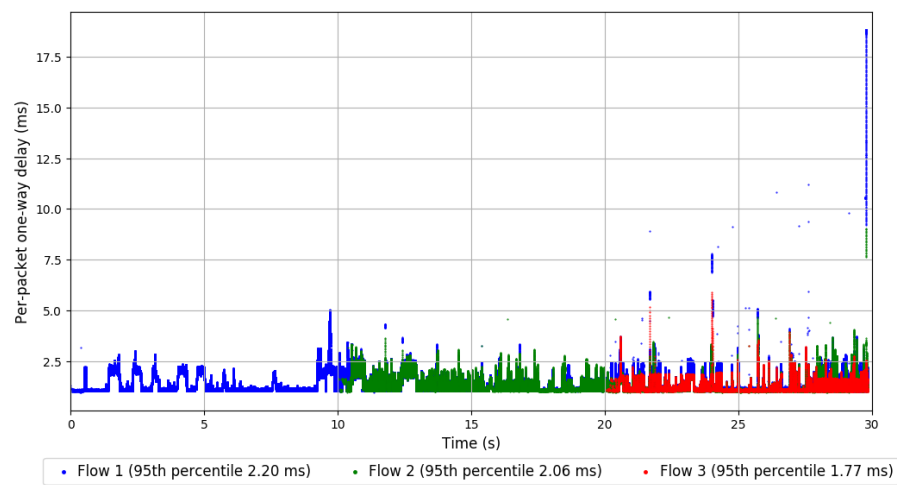
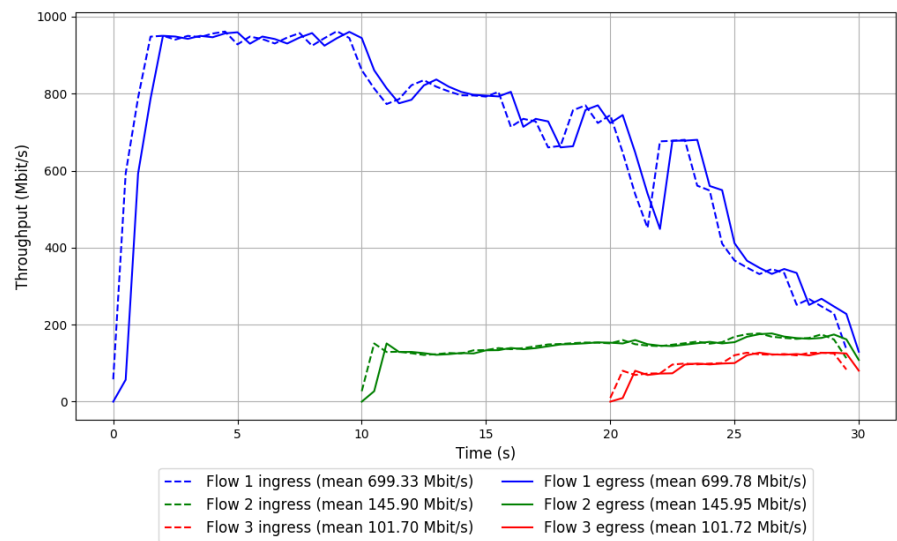
-- Flow 3:

Average throughput: 101.72 Mbit/s

95th percentile per-packet one-way delay: 1.771 ms

Loss rate: 0.17%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-07-25 11:39:37

End at: 2018-07-25 11:40:07

Local clock offset: 3.969 ms

Remote clock offset: 1.631 ms

Below is generated by plot.py at 2018-07-25 13:53:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 795.12 Mbit/s

95th percentile per-packet one-way delay: 2.449 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 649.66 Mbit/s

95th percentile per-packet one-way delay: 2.467 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 181.14 Mbit/s

95th percentile per-packet one-way delay: 2.034 ms

Loss rate: 0.11%

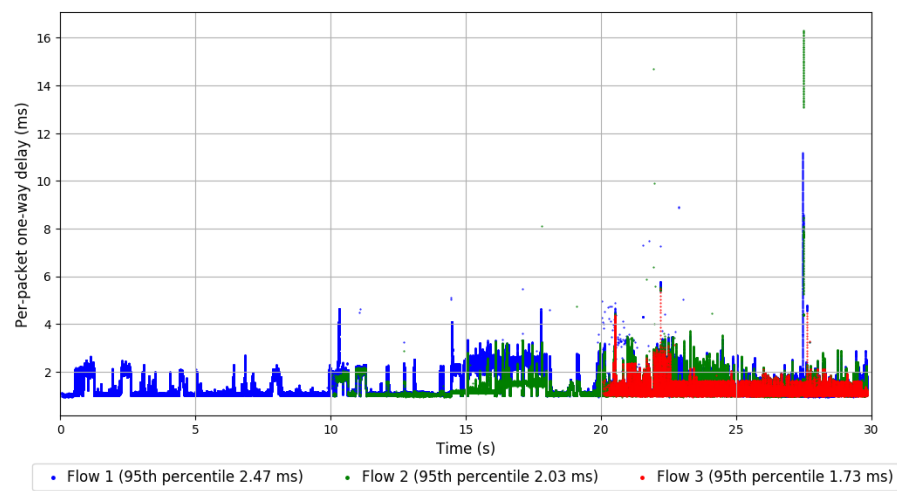
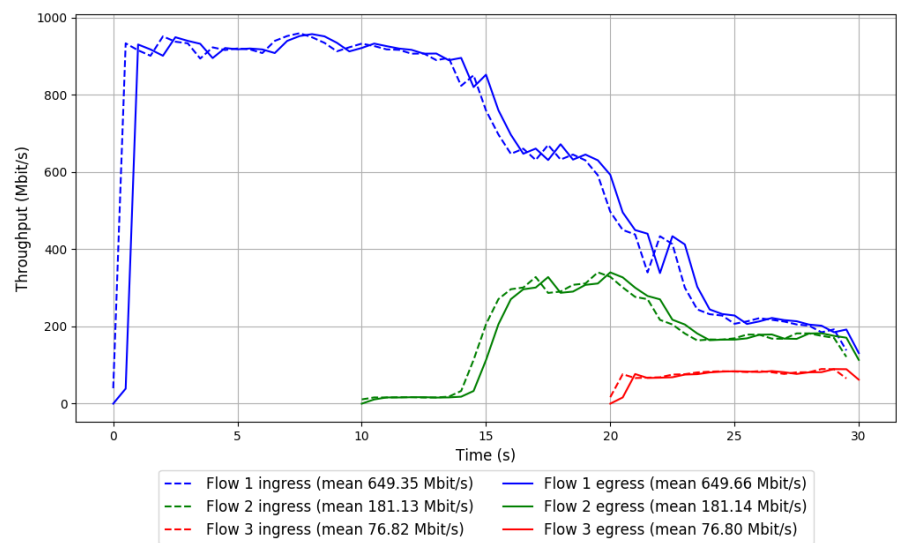
-- Flow 3:

Average throughput: 76.80 Mbit/s

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

Loss rate: 0.23%

Run 10: Report of PCC-Allegro — Data Link

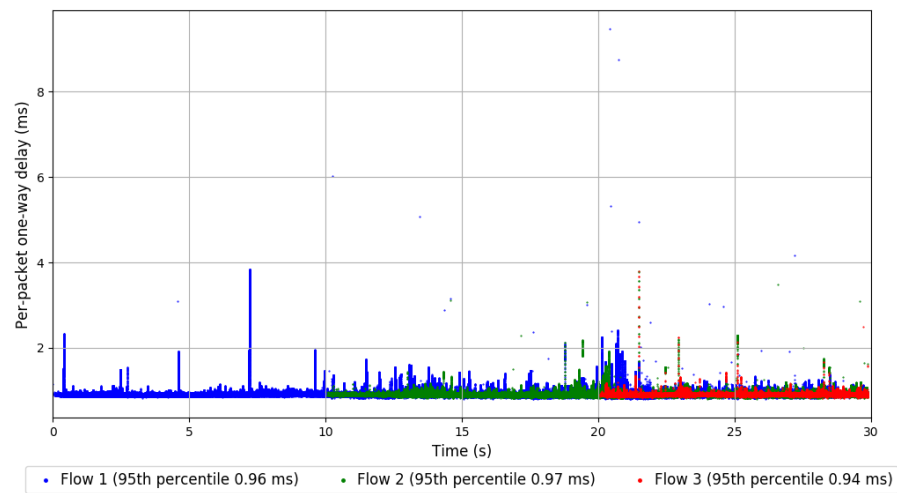
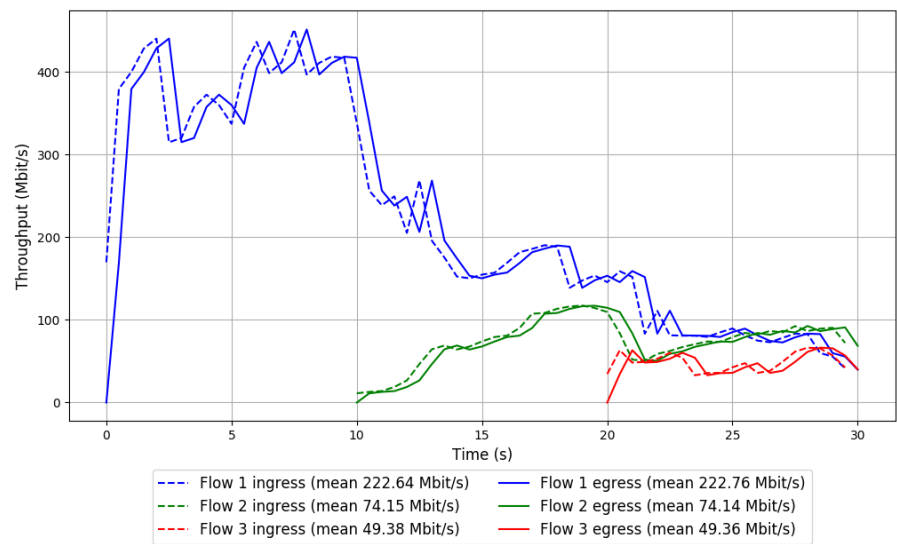


```
Run 1: Statistics of PCC-Expr

Start at: 2018-07-25 07:33:05
End at: 2018-07-25 07:33:35
Local clock offset: 3.5 ms
Remote clock offset: 0.882 ms

# Below is generated by plot.py at 2018-07-25 13:53:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 288.30 Mbit/s
95th percentile per-packet one-way delay: 0.958 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 222.76 Mbit/s
95th percentile per-packet one-way delay: 0.957 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 74.14 Mbit/s
95th percentile per-packet one-way delay: 0.966 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 49.36 Mbit/s
95th percentile per-packet one-way delay: 0.940 ms
Loss rate: 0.24%
```


Run 1: Report of PCC-Expr — Data Link

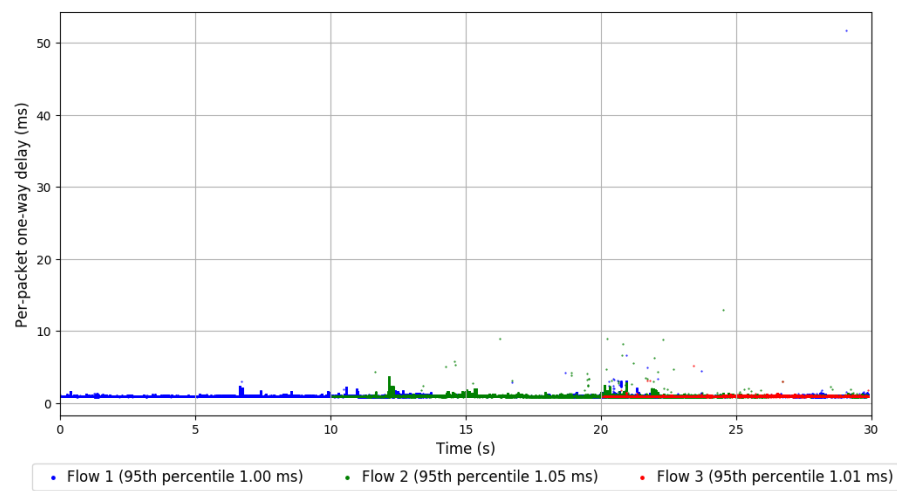
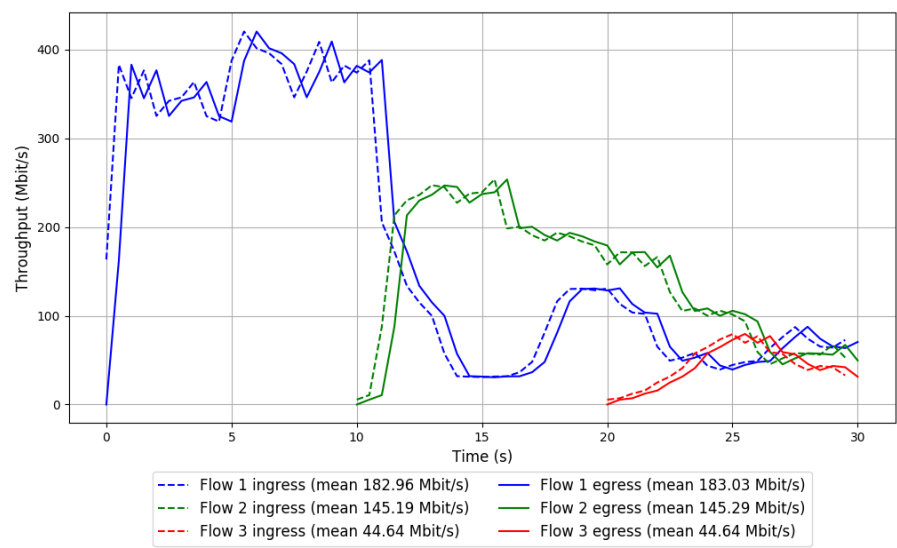


```
Run 2: Statistics of PCC-Expr

Start at: 2018-07-25 08:00:00
End at: 2018-07-25 08:00:30
Local clock offset: 3.312 ms
Remote clock offset: 1.592 ms

# Below is generated by plot.py at 2018-07-25 13:53:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 294.23 Mbit/s
95th percentile per-packet one-way delay: 1.014 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 183.03 Mbit/s
95th percentile per-packet one-way delay: 1.002 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 145.29 Mbit/s
95th percentile per-packet one-way delay: 1.051 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 44.64 Mbit/s
95th percentile per-packet one-way delay: 1.009 ms
Loss rate: 0.19%
```

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-07-25 08:26:51

End at: 2018-07-25 08:27:21

Local clock offset: 3.176 ms

Remote clock offset: 2.045 ms

Below is generated by plot.py at 2018-07-25 13:53:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 269.92 Mbit/s

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

Loss rate: 0.04%

-- Flow 1:

Average throughput: 200.18 Mbit/s

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

Loss rate: 0.01%

-- Flow 2:

Average throughput: 79.25 Mbit/s

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

Loss rate: 0.09%

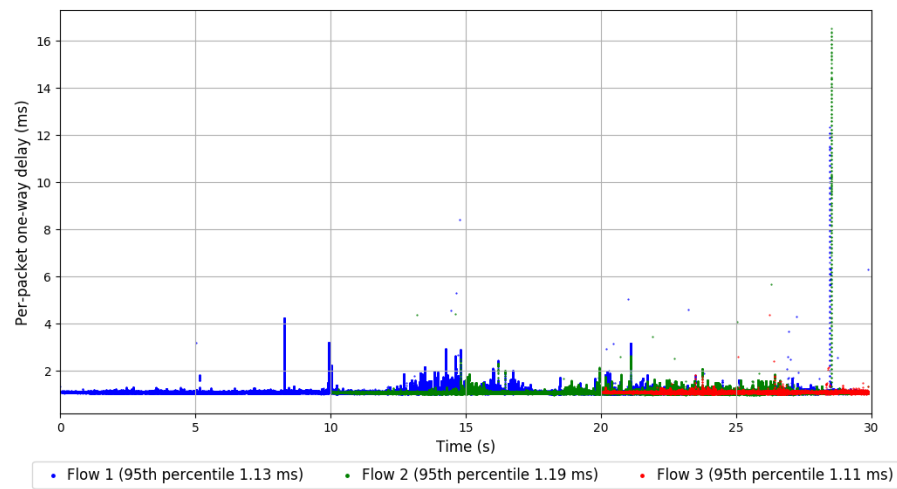
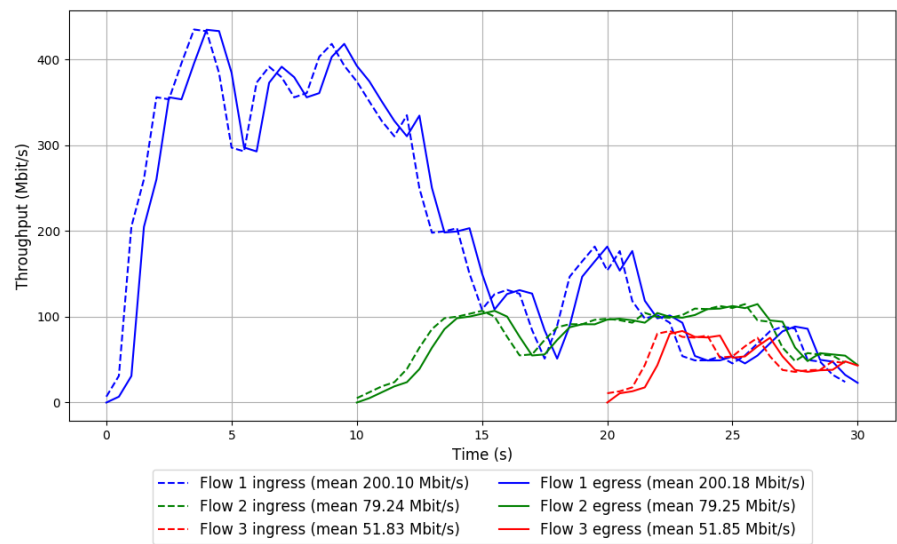
-- Flow 3:

Average throughput: 51.85 Mbit/s

95th percentile per-packet one-way delay: 1.109 ms

Loss rate: 0.28%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-07-25 08:53:48

End at: 2018-07-25 08:54:18

Local clock offset: 3.663 ms

Remote clock offset: 2.393 ms

Below is generated by plot.py at 2018-07-25 13:55:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 314.79 Mbit/s

95th percentile per-packet one-way delay: 1.076 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 233.77 Mbit/s

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

Loss rate: 0.01%

-- Flow 2:

Average throughput: 100.54 Mbit/s

95th percentile per-packet one-way delay: 1.173 ms

Loss rate: 0.07%

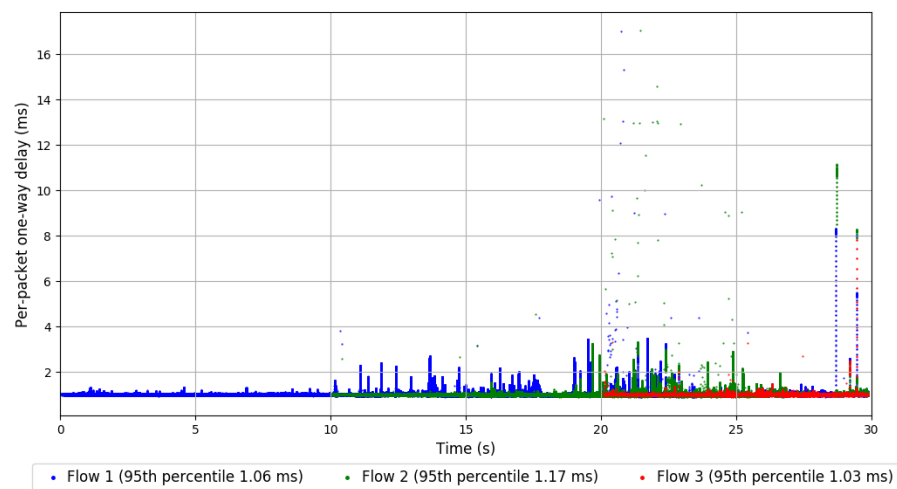
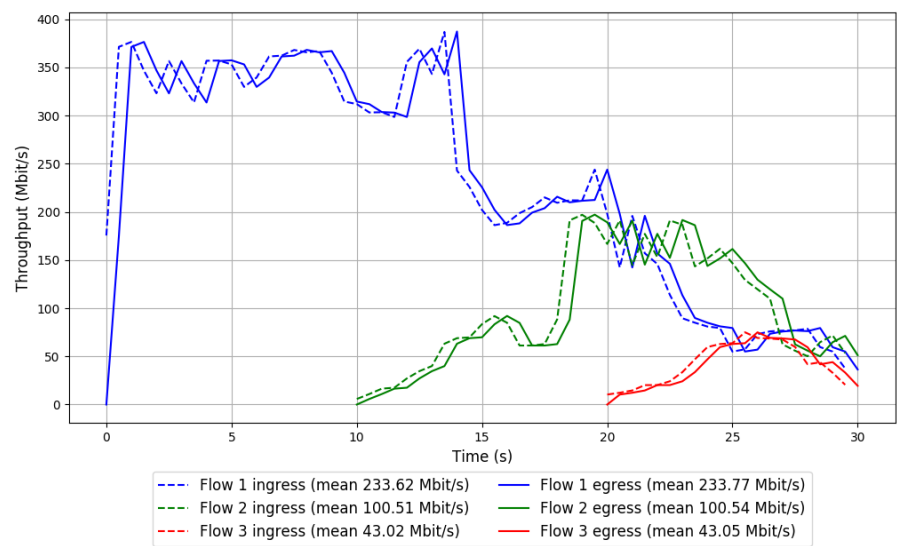
-- Flow 3:

Average throughput: 43.05 Mbit/s

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

Loss rate: 0.13%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-07-25 09:20:39

End at: 2018-07-25 09:21:09

Local clock offset: 3.973 ms

Remote clock offset: 2.519 ms

Below is generated by plot.py at 2018-07-25 13:56:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 352.43 Mbit/s

95th percentile per-packet one-way delay: 1.146 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 235.73 Mbit/s

95th percentile per-packet one-way delay: 1.134 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 141.65 Mbit/s

95th percentile per-packet one-way delay: 1.203 ms

Loss rate: 0.11%

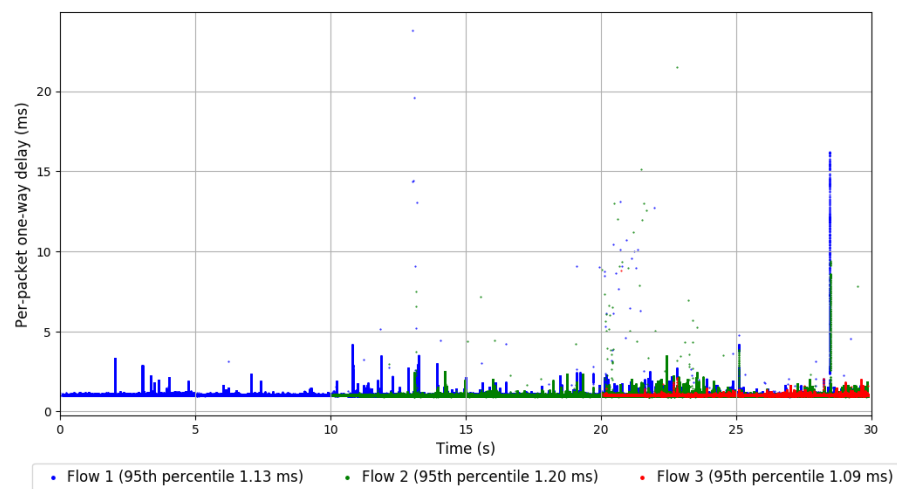
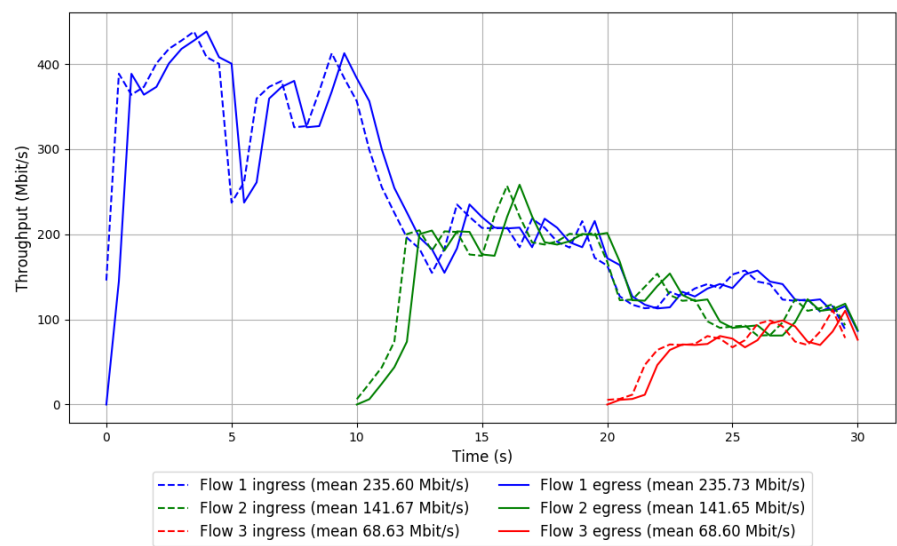
-- Flow 3:

Average throughput: 68.60 Mbit/s

95th percentile per-packet one-way delay: 1.093 ms

Loss rate: 0.23%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-07-25 09:47:36

End at: 2018-07-25 09:48:06

Local clock offset: 3.722 ms

Remote clock offset: 2.264 ms

Below is generated by plot.py at 2018-07-25 13:56:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 278.18 Mbit/s

95th percentile per-packet one-way delay: 1.130 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 198.34 Mbit/s

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

Loss rate: 0.01%

-- Flow 2:

Average throughput: 94.80 Mbit/s

95th percentile per-packet one-way delay: 1.143 ms

Loss rate: 0.04%

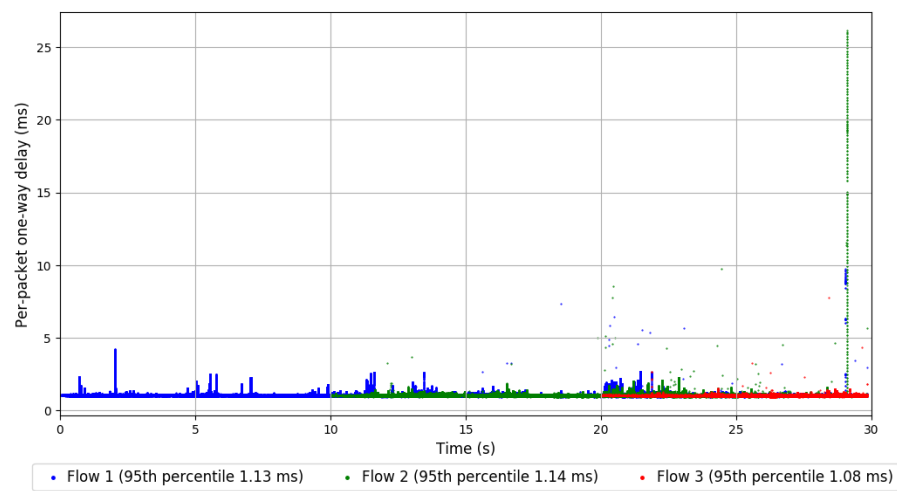
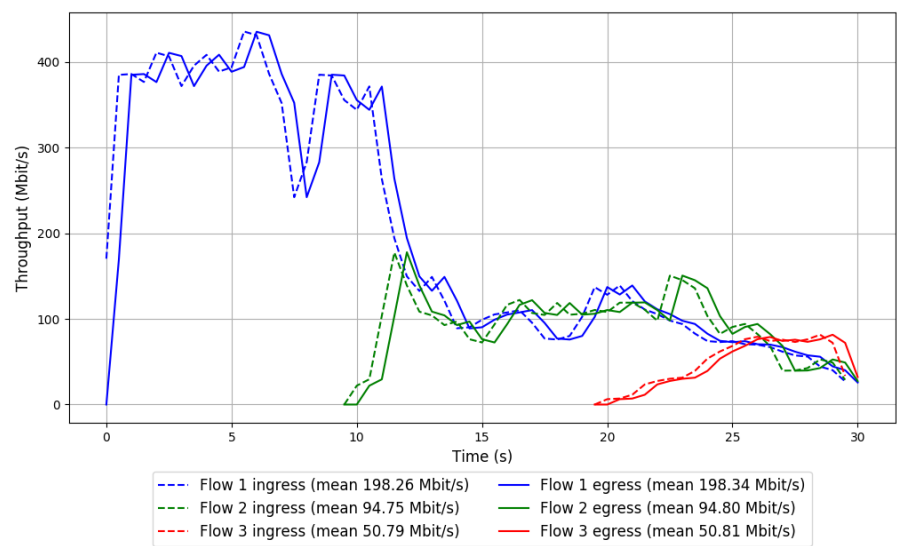
-- Flow 3:

Average throughput: 50.81 Mbit/s

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

Loss rate: 0.14%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-07-25 10:14:30

End at: 2018-07-25 10:15:00

Local clock offset: 4.1 ms

Remote clock offset: 2.069 ms

Below is generated by plot.py at 2018-07-25 13:59:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 311.67 Mbit/s

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

Loss rate: 0.03%

-- Flow 1:

Average throughput: 221.80 Mbit/s

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

Loss rate: 0.01%

-- Flow 2:

Average throughput: 110.91 Mbit/s

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

Loss rate: 0.05%

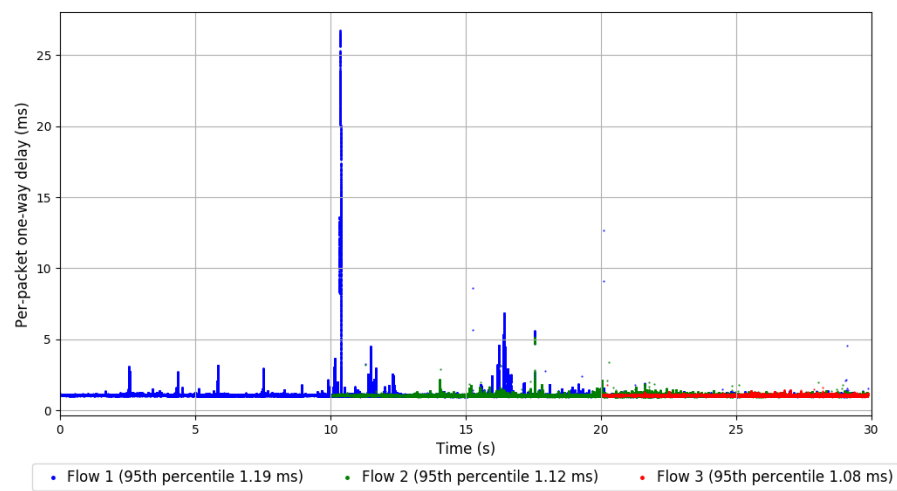
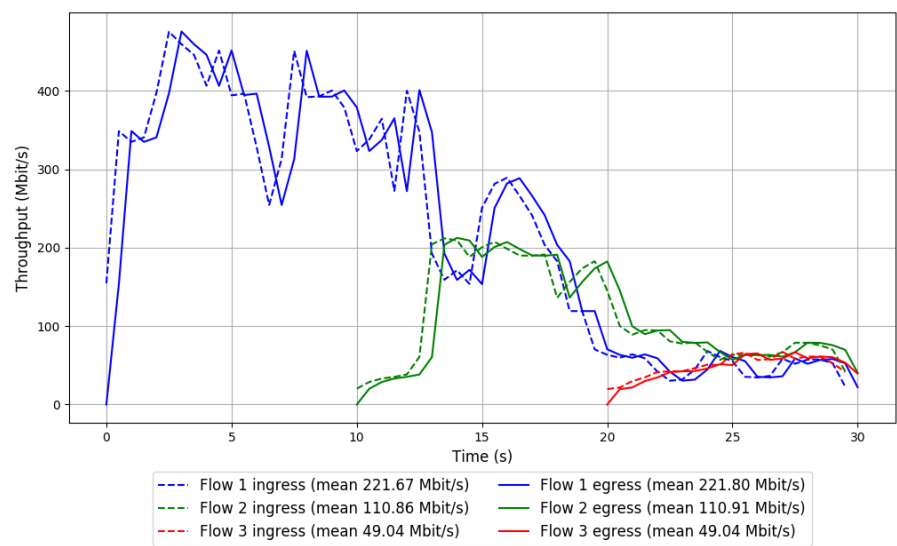
-- Flow 3:

Average throughput: 49.04 Mbit/s

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

Loss rate: 0.22%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-07-25 10:41:17

End at: 2018-07-25 10:41:47

Local clock offset: 4.195 ms

Remote clock offset: 1.905 ms

Below is generated by plot.py at 2018-07-25 14:00:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 332.73 Mbit/s

95th percentile per-packet one-way delay: 1.053 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 235.59 Mbit/s

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

Loss rate: 0.02%

-- Flow 2:

Average throughput: 102.12 Mbit/s

95th percentile per-packet one-way delay: 1.086 ms

Loss rate: 0.09%

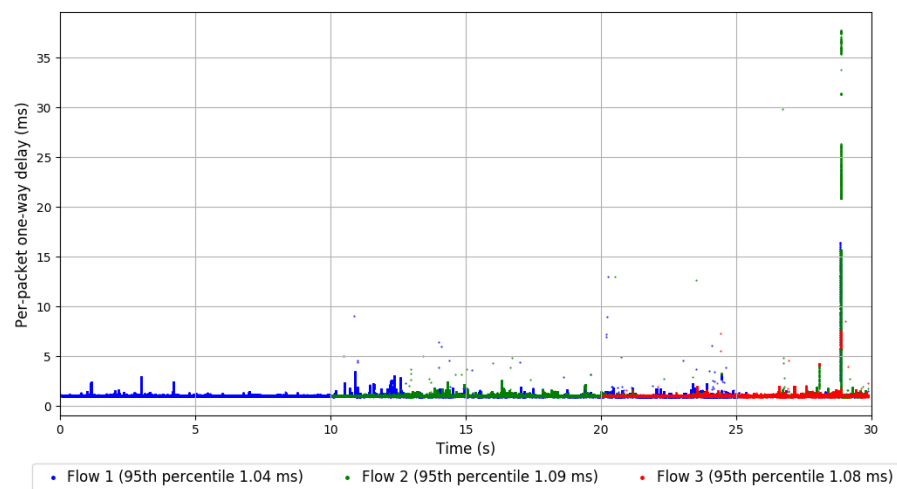
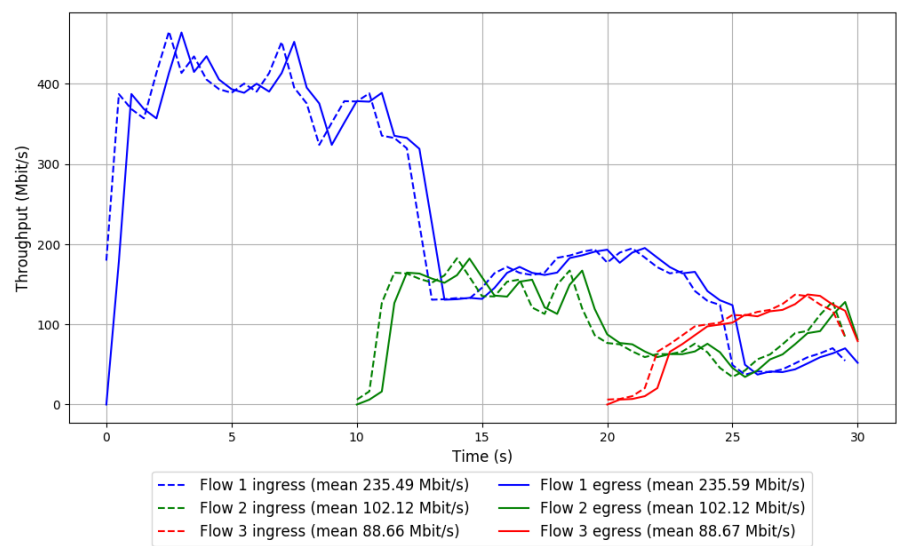
-- Flow 3:

Average throughput: 88.67 Mbit/s

95th percentile per-packet one-way delay: 1.079 ms

Loss rate: 0.30%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-07-25 11:08:11

End at: 2018-07-25 11:08:41

Local clock offset: 4.181 ms

Remote clock offset: 1.83 ms

Below is generated by plot.py at 2018-07-25 14:00:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 295.56 Mbit/s

95th percentile per-packet one-way delay: 1.095 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 221.18 Mbit/s

95th percentile per-packet one-way delay: 1.098 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 83.94 Mbit/s

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

Loss rate: 0.12%

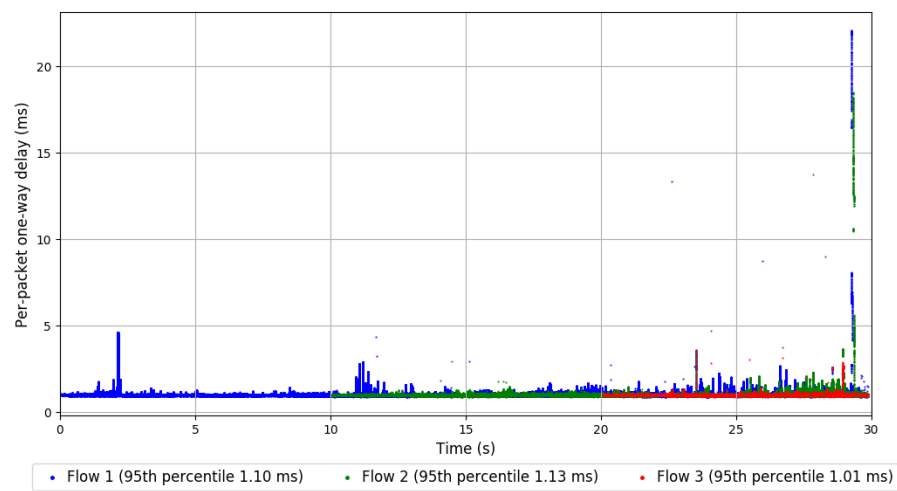
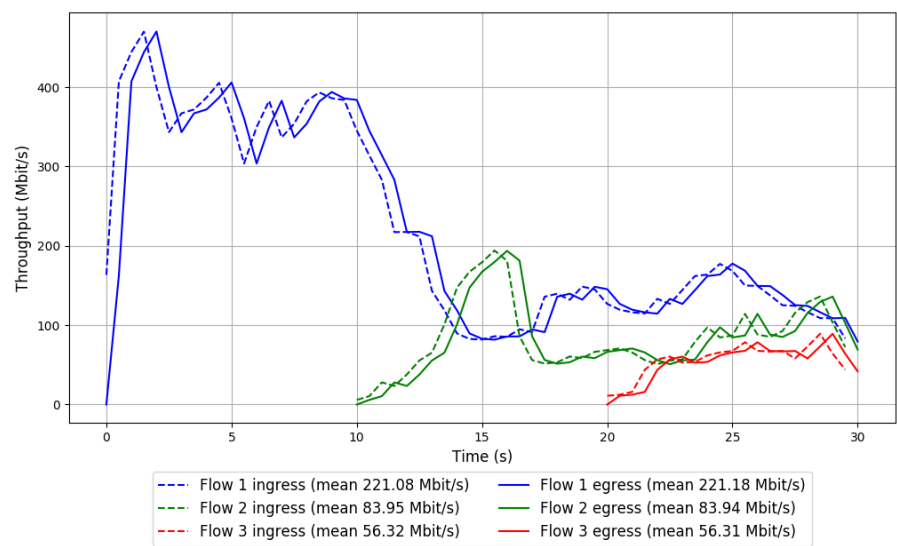
-- Flow 3:

Average throughput: 56.31 Mbit/s

95th percentile per-packet one-way delay: 1.010 ms

Loss rate: 0.21%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-07-25 11:35:05

End at: 2018-07-25 11:35:35

Local clock offset: 4.107 ms

Remote clock offset: 1.604 ms

Below is generated by plot.py at 2018-07-25 14:00:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 276.87 Mbit/s

95th percentile per-packet one-way delay: 1.178 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 211.78 Mbit/s

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

Loss rate: 0.02%

-- Flow 2:

Average throughput: 68.79 Mbit/s

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

Loss rate: 0.10%

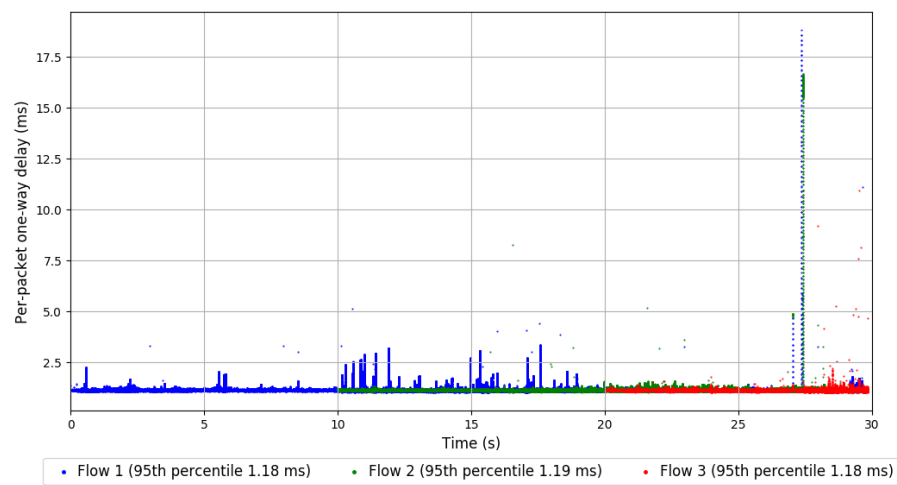
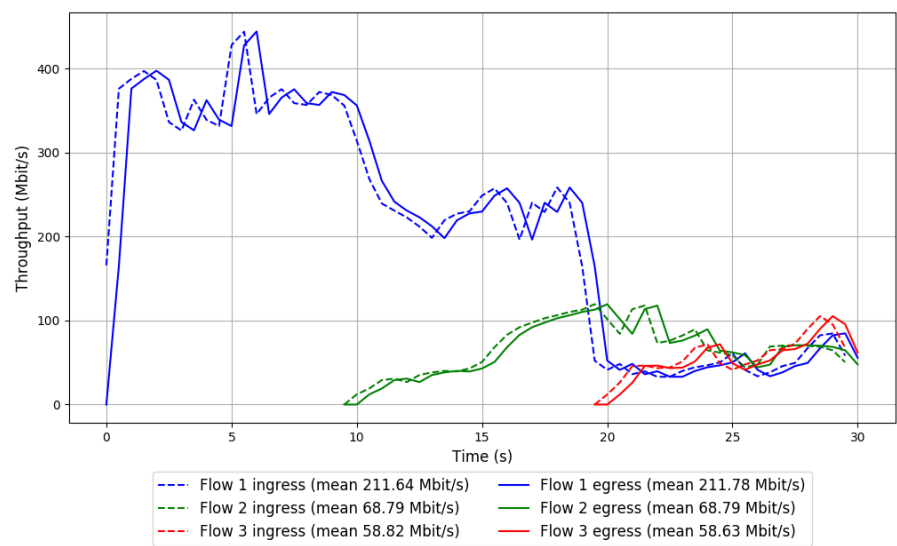
-- Flow 3:

Average throughput: 58.63 Mbit/s

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

Loss rate: 0.52%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-07-25 07:48:59

End at: 2018-07-25 07:49:29

Local clock offset: 3.445 ms

Remote clock offset: 1.29 ms

Below is generated by plot.py at 2018-07-25 14:00:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 133.88 Mbit/s

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

Loss rate: 0.09%

-- Flow 1:

Average throughput: 72.02 Mbit/s

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

Loss rate: 0.06%

-- Flow 2:

Average throughput: 65.01 Mbit/s

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

Loss rate: 0.08%

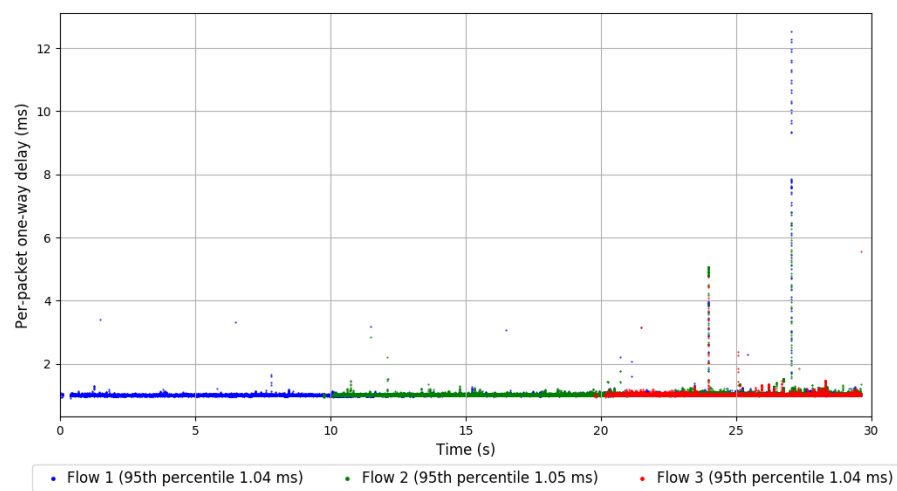
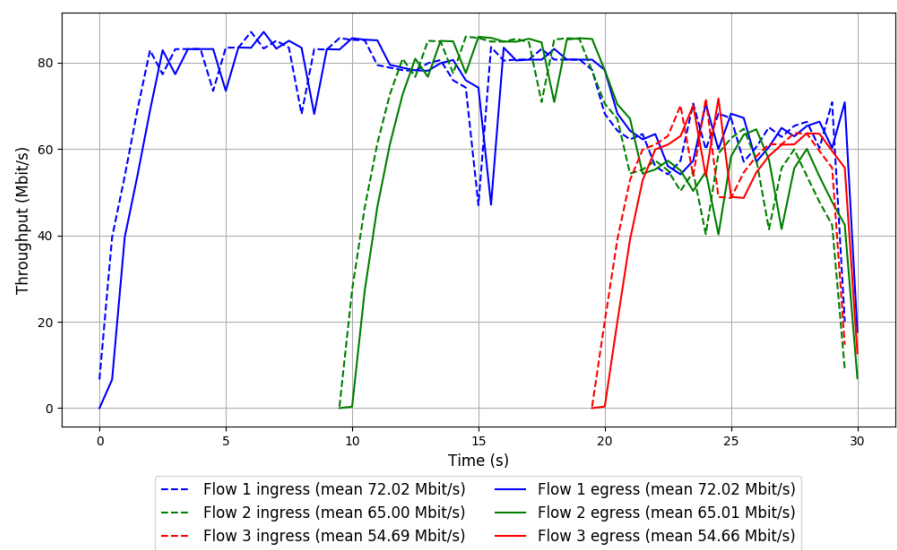
-- Flow 3:

Average throughput: 54.66 Mbit/s

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

Loss rate: 0.19%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-07-25 08:15:51

End at: 2018-07-25 08:16:21

Local clock offset: 3.204 ms

Remote clock offset: 1.973 ms

Below is generated by plot.py at 2018-07-25 14:00:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 133.94 Mbit/s

95th percentile per-packet one-way delay: 1.023 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 72.72 Mbit/s

95th percentile per-packet one-way delay: 1.025 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 66.33 Mbit/s

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

Loss rate: 0.10%

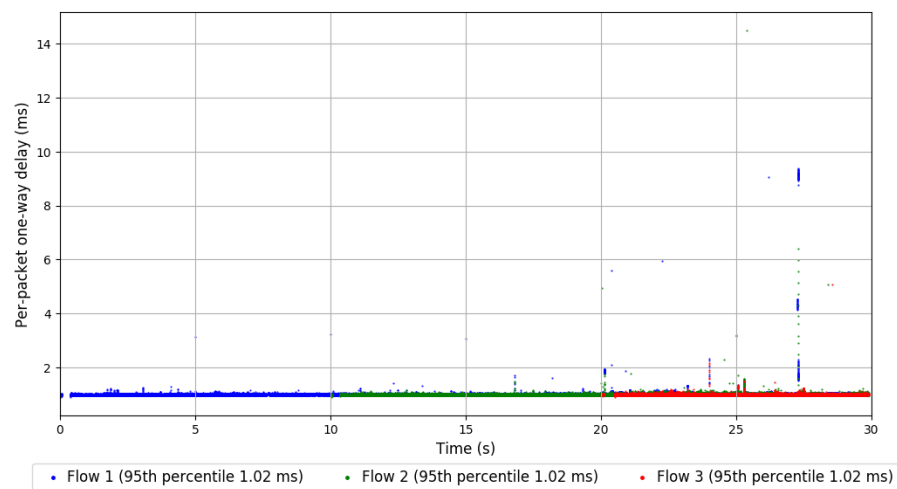
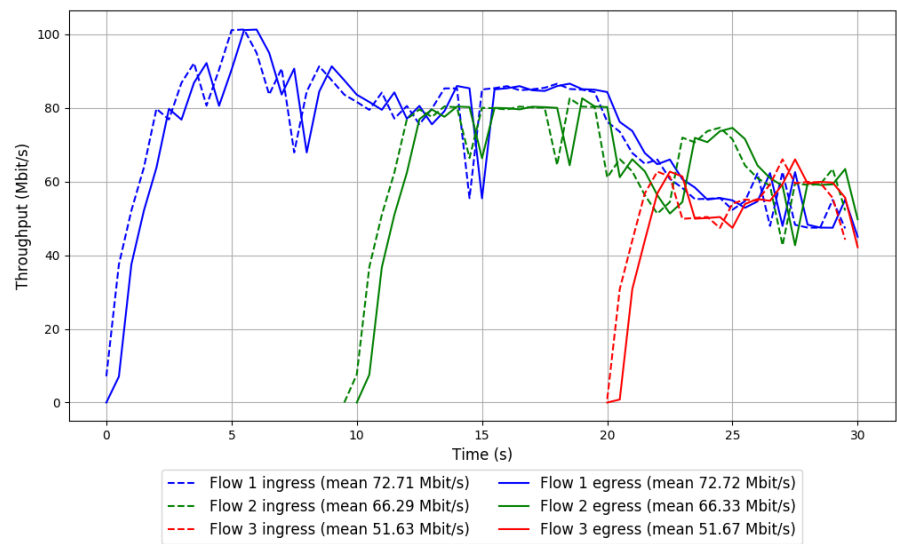
-- Flow 3:

Average throughput: 51.67 Mbit/s

95th percentile per-packet one-way delay: 1.020 ms

Loss rate: 0.21%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-07-25 08:42:44

End at: 2018-07-25 08:43:14

Local clock offset: 3.482 ms

Remote clock offset: 2.301 ms

Below is generated by plot.py at 2018-07-25 14:00:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 136.05 Mbit/s

95th percentile per-packet one-way delay: 0.991 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 74.94 Mbit/s

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

Loss rate: 0.05%

-- Flow 2:

Average throughput: 65.76 Mbit/s

95th percentile per-packet one-way delay: 0.986 ms

Loss rate: 0.08%

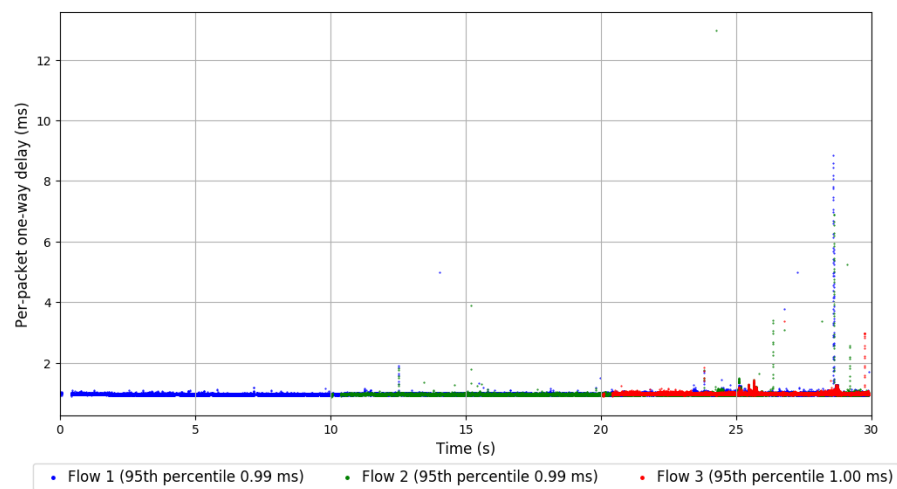
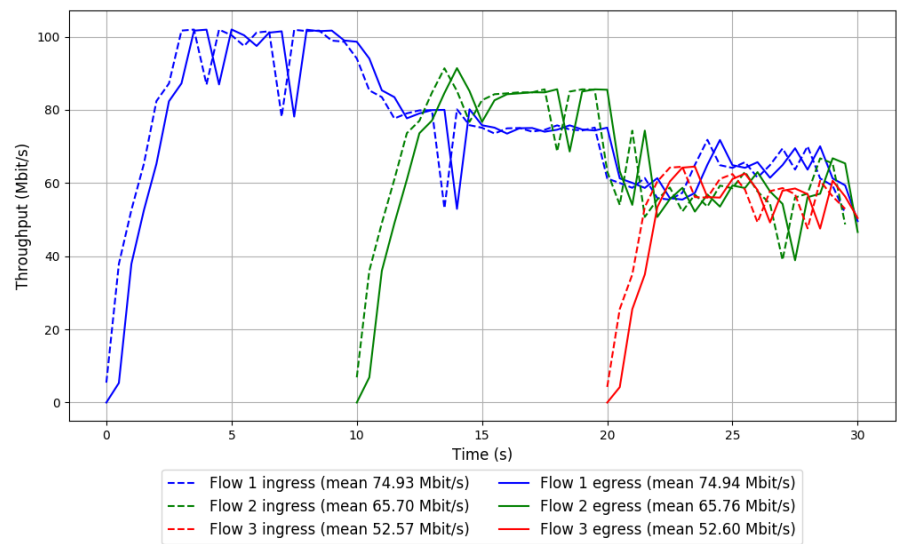
-- Flow 3:

Average throughput: 52.60 Mbit/s

95th percentile per-packet one-way delay: 1.005 ms

Loss rate: 0.25%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-07-25 09:09:45

End at: 2018-07-25 09:10:15

Local clock offset: 3.887 ms

Remote clock offset: 2.457 ms

Below is generated by plot.py at 2018-07-25 14:00:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 133.13 Mbit/s

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

Loss rate: 0.08%

-- Flow 1:

Average throughput: 69.56 Mbit/s

95th percentile per-packet one-way delay: 1.115 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 68.73 Mbit/s

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

Loss rate: 0.09%

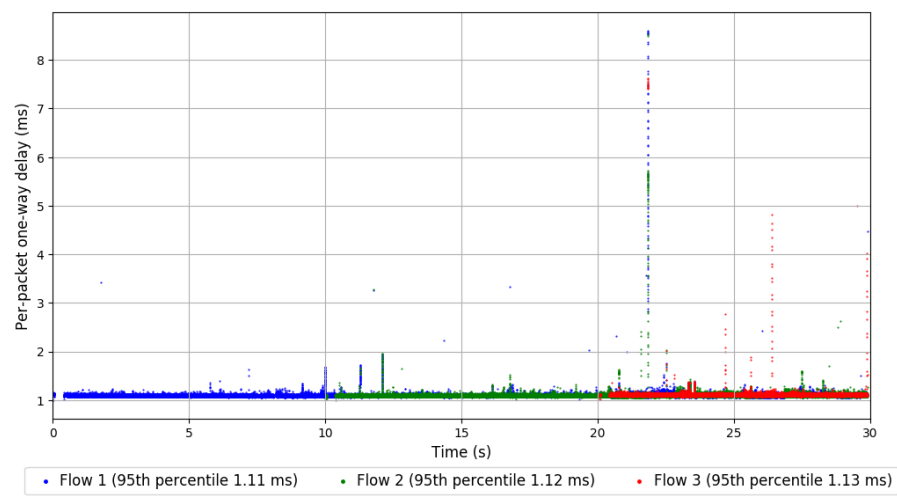
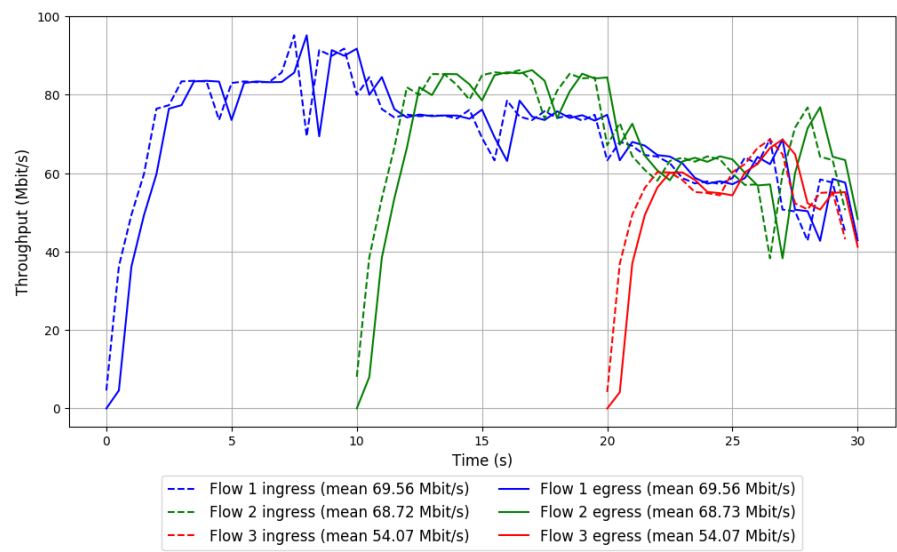
-- Flow 3:

Average throughput: 54.07 Mbit/s

95th percentile per-packet one-way delay: 1.131 ms

Loss rate: 0.19%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-07-25 09:36:37

End at: 2018-07-25 09:37:07

Local clock offset: 3.754 ms

Remote clock offset: 2.466 ms

Below is generated by plot.py at 2018-07-25 14:00:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 134.13 Mbit/s

95th percentile per-packet one-way delay: 0.937 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 72.24 Mbit/s

95th percentile per-packet one-way delay: 0.932 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 66.44 Mbit/s

95th percentile per-packet one-way delay: 0.931 ms

Loss rate: 0.11%

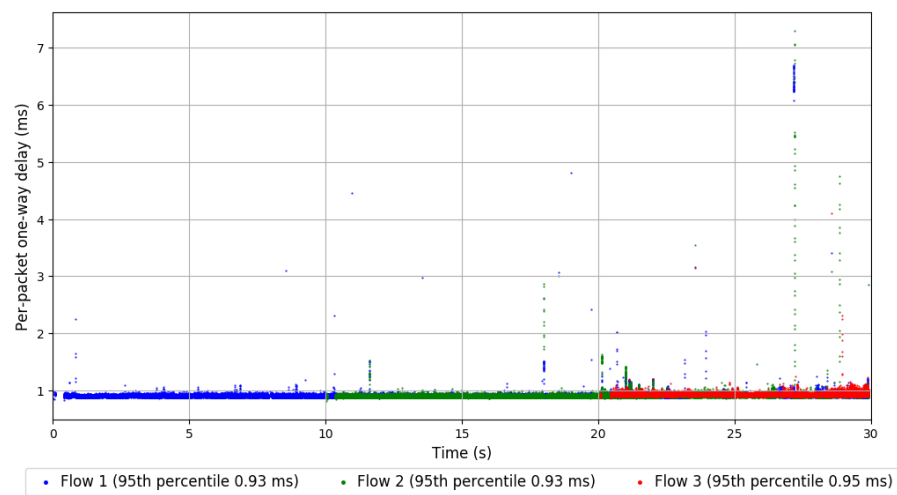
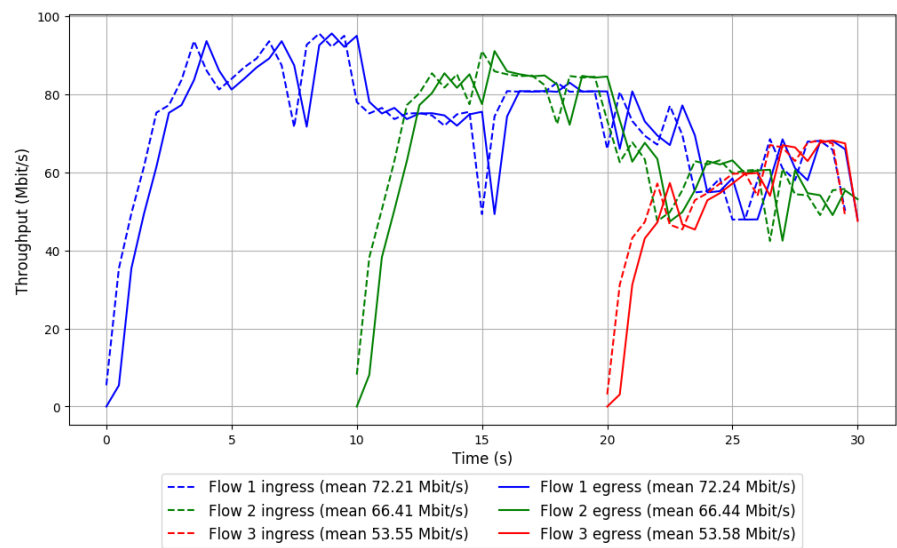
-- Flow 3:

Average throughput: 53.58 Mbit/s

95th percentile per-packet one-way delay: 0.954 ms

Loss rate: 0.13%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-07-25 10:03:29

End at: 2018-07-25 10:03:59

Local clock offset: 3.716 ms

Remote clock offset: 2.237 ms

Below is generated by plot.py at 2018-07-25 14:00:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 133.09 Mbit/s

95th percentile per-packet one-way delay: 0.885 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 70.44 Mbit/s

95th percentile per-packet one-way delay: 0.881 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 67.52 Mbit/s

95th percentile per-packet one-way delay: 0.890 ms

Loss rate: 0.11%

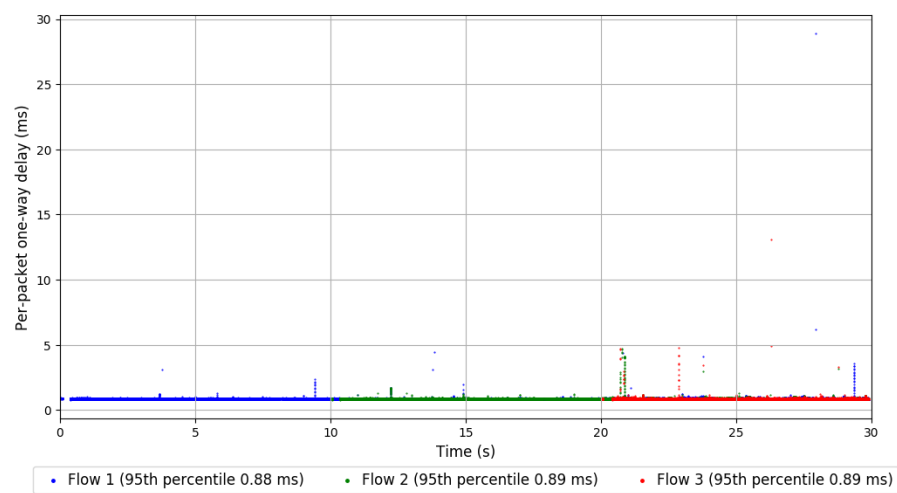
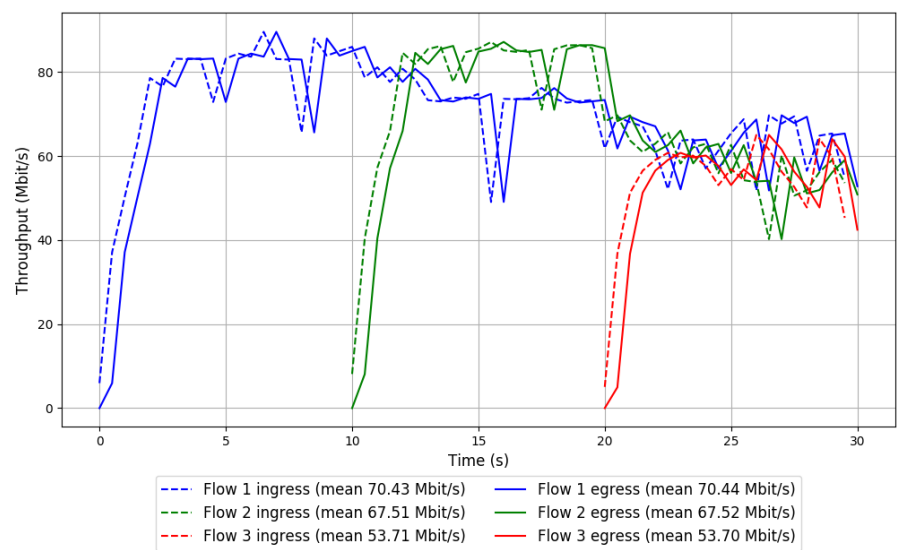
-- Flow 3:

Average throughput: 53.70 Mbit/s

95th percentile per-packet one-way delay: 0.887 ms

Loss rate: 0.27%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-07-25 10:30:20

End at: 2018-07-25 10:30:50

Local clock offset: 4.085 ms

Remote clock offset: 2.063 ms

Below is generated by plot.py at 2018-07-25 14:00:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 133.48 Mbit/s

95th percentile per-packet one-way delay: 0.943 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 72.30 Mbit/s

95th percentile per-packet one-way delay: 0.942 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 63.83 Mbit/s

95th percentile per-packet one-way delay: 0.943 ms

Loss rate: 0.07%

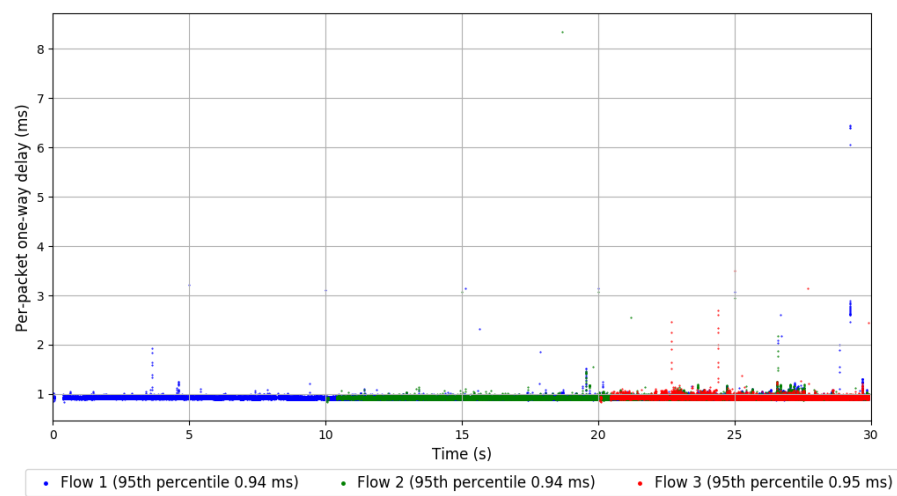
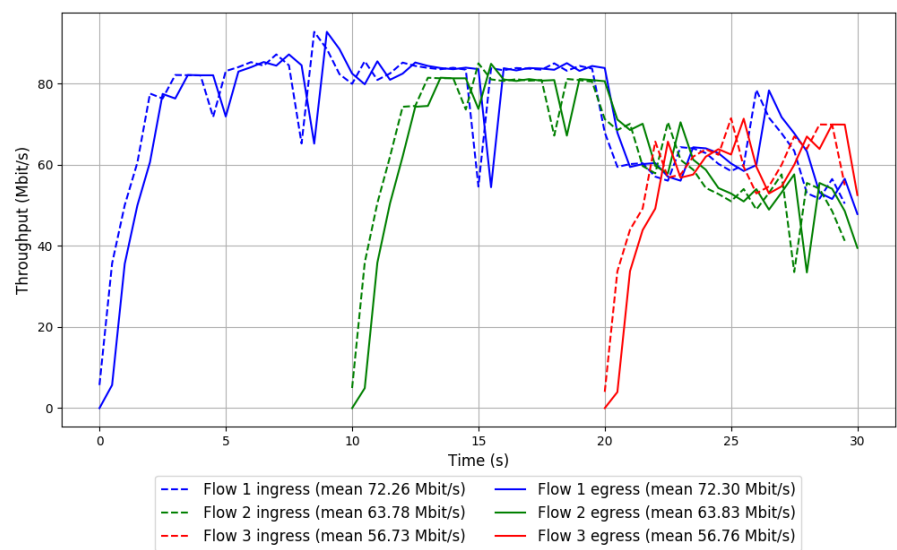
-- Flow 3:

Average throughput: 56.76 Mbit/s

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

Loss rate: 0.23%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-07-25 10:57:11

End at: 2018-07-25 10:57:41

Local clock offset: 4.317 ms

Remote clock offset: 1.892 ms

Below is generated by plot.py at 2018-07-25 14:00:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 136.59 Mbit/s

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

Loss rate: 0.08%

-- Flow 1:

Average throughput: 75.30 Mbit/s

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

Loss rate: 0.05%

-- Flow 2:

Average throughput: 64.78 Mbit/s

95th percentile per-packet one-way delay: 0.985 ms

Loss rate: 0.08%

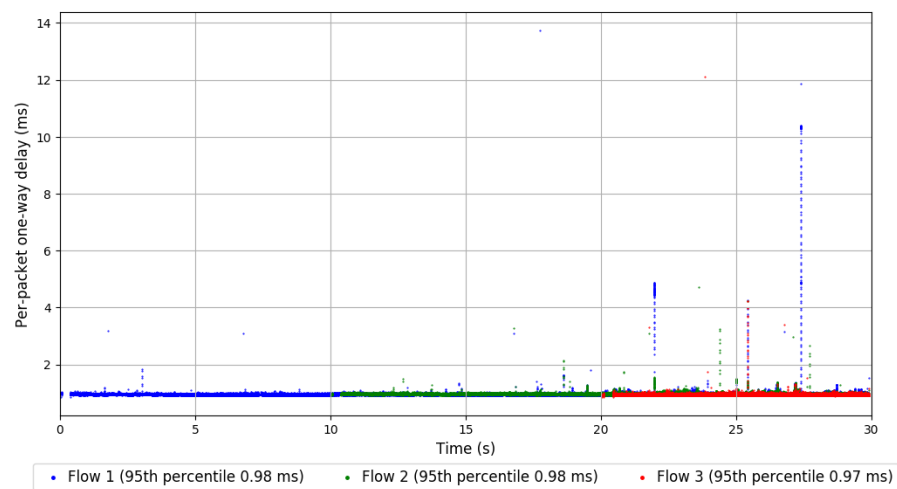
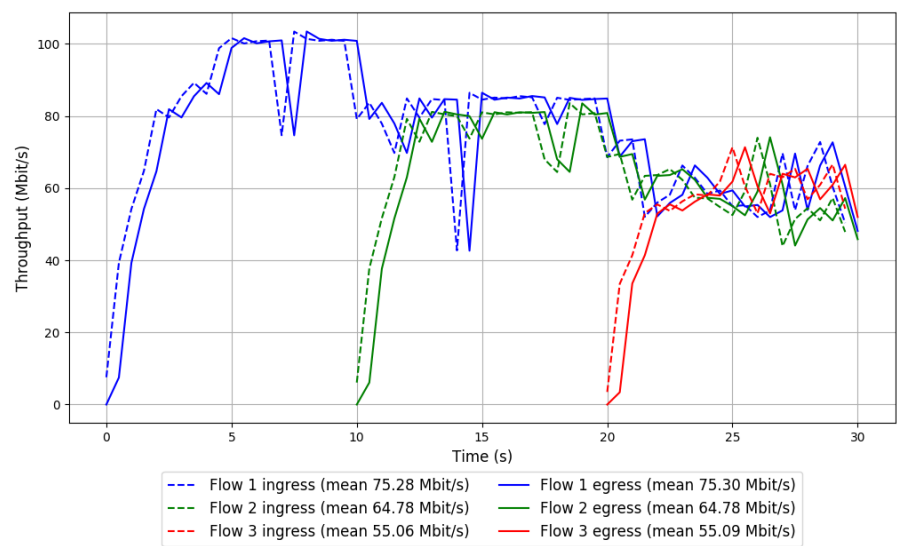
-- Flow 3:

Average throughput: 55.09 Mbit/s

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

Loss rate: 0.23%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-07-25 11:24:07

End at: 2018-07-25 11:24:37

Local clock offset: 4.231 ms

Remote clock offset: 1.792 ms

Below is generated by plot.py at 2018-07-25 14:00:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 137.24 Mbit/s

95th percentile per-packet one-way delay: 1.055 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 74.34 Mbit/s

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

Loss rate: 0.04%

-- Flow 2:

Average throughput: 66.91 Mbit/s

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

Loss rate: 0.08%

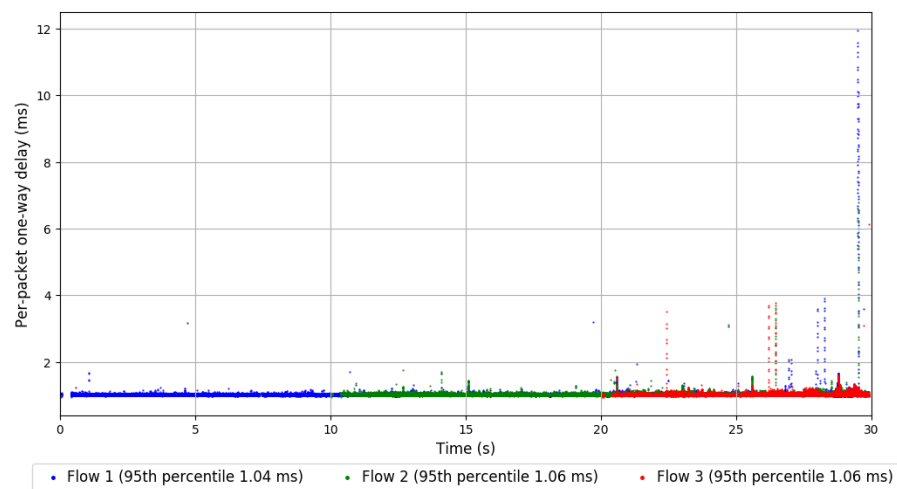
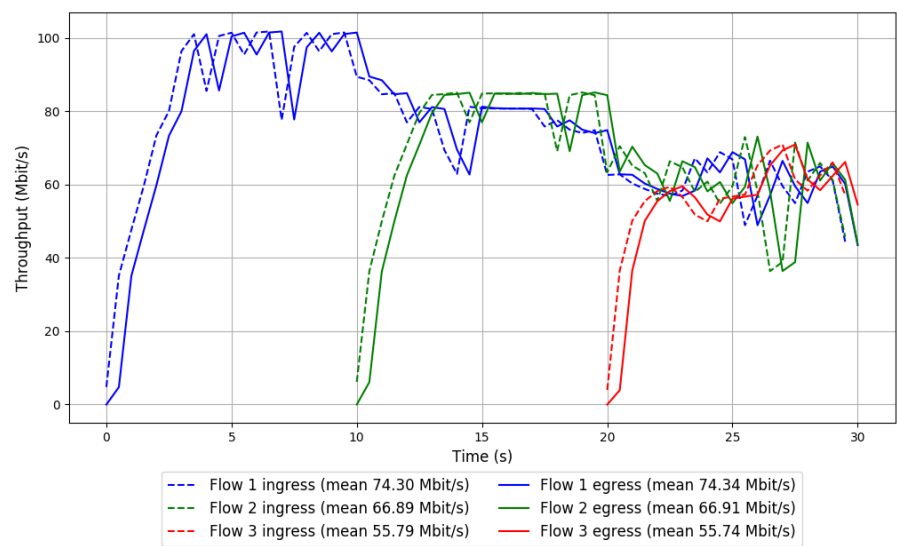
-- Flow 3:

Average throughput: 55.74 Mbit/s

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

Loss rate: 0.24%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-07-25 11:50:58

End at: 2018-07-25 11:51:28

Local clock offset: 3.843 ms

Remote clock offset: 1.571 ms

Below is generated by plot.py at 2018-07-25 14:00:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 137.75 Mbit/s

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

Loss rate: 0.08%

-- Flow 1:

Average throughput: 76.12 Mbit/s

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

Loss rate: 0.04%

-- Flow 2:

Average throughput: 65.41 Mbit/s

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

Loss rate: 0.09%

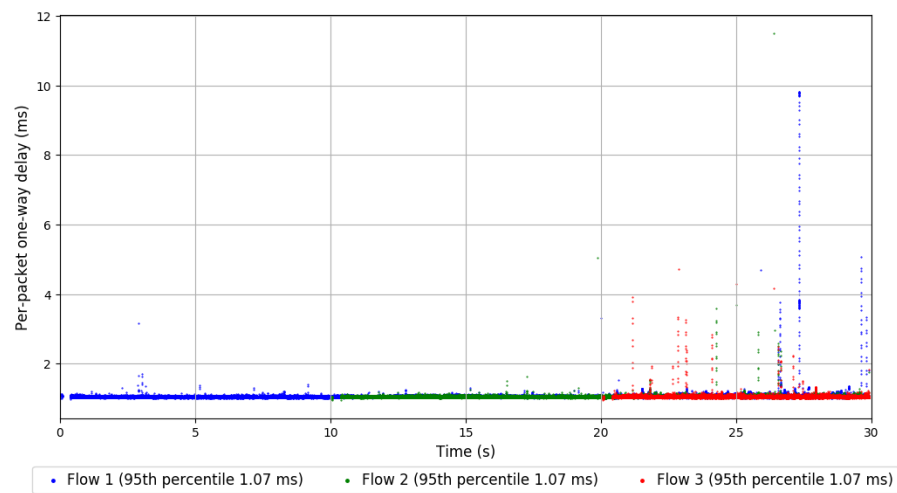
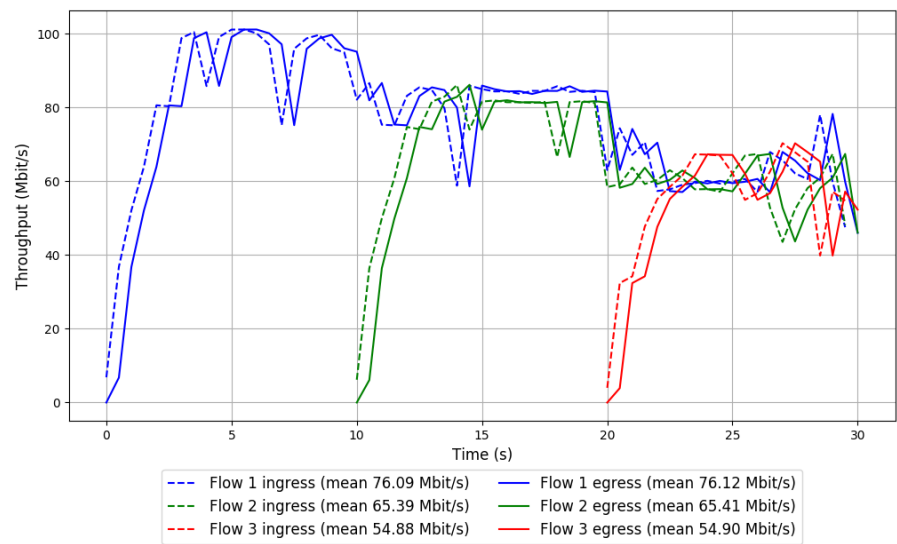
-- Flow 3:

Average throughput: 54.90 Mbit/s

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

Loss rate: 0.23%

Run 10: Report of QUIC Cubic — Data Link

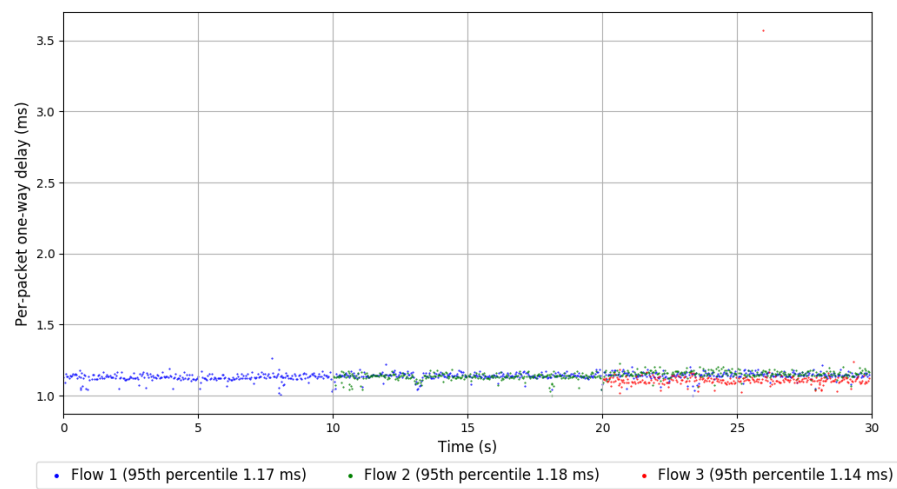
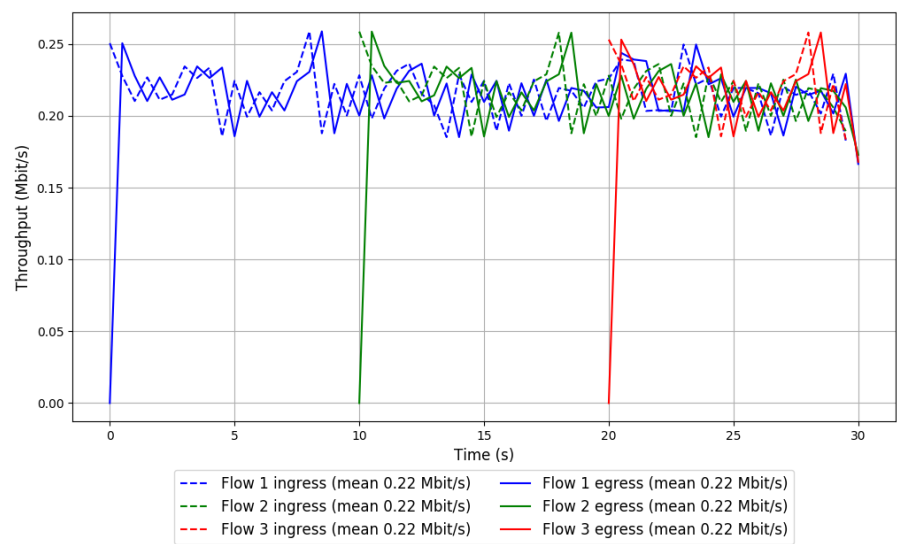


```
Run 1: Statistics of SReAM

Start at: 2018-07-25 07:56:59
End at: 2018-07-25 07:57:29
Local clock offset: 3.358 ms
Remote clock offset: 1.481 ms

# Below is generated by plot.py at 2018-07-25 14:00:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.175 ms
Loss rate: 0.19%
-- 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: 1.179 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.138 ms
Loss rate: 0.35%
```


Run 1: Report of SReAM — Data Link



Run 2: Statistics of SReAM

Start at: 2018-07-25 08:23:49

End at: 2018-07-25 08:24:19

Local clock offset: 3.096 ms

Remote clock offset: 2.038 ms

Below is generated by plot.py at 2018-07-25 14:00:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.113 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.109 ms

Loss rate: 0.19%

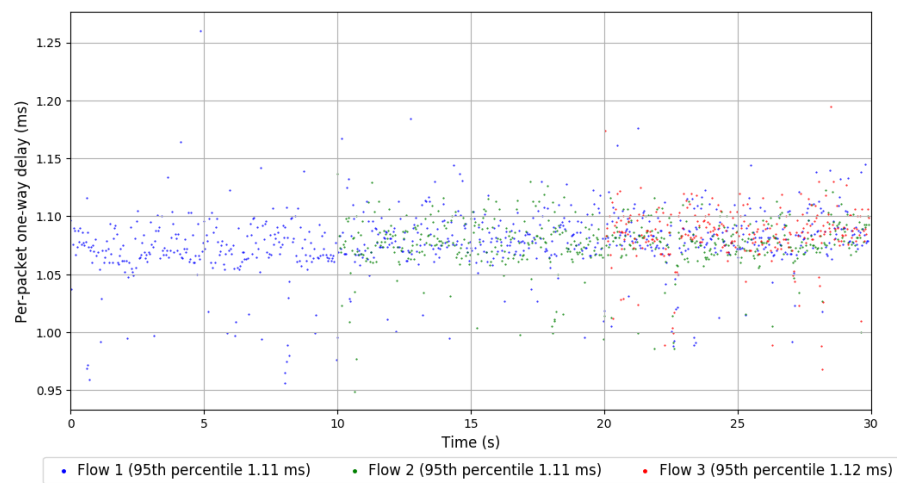
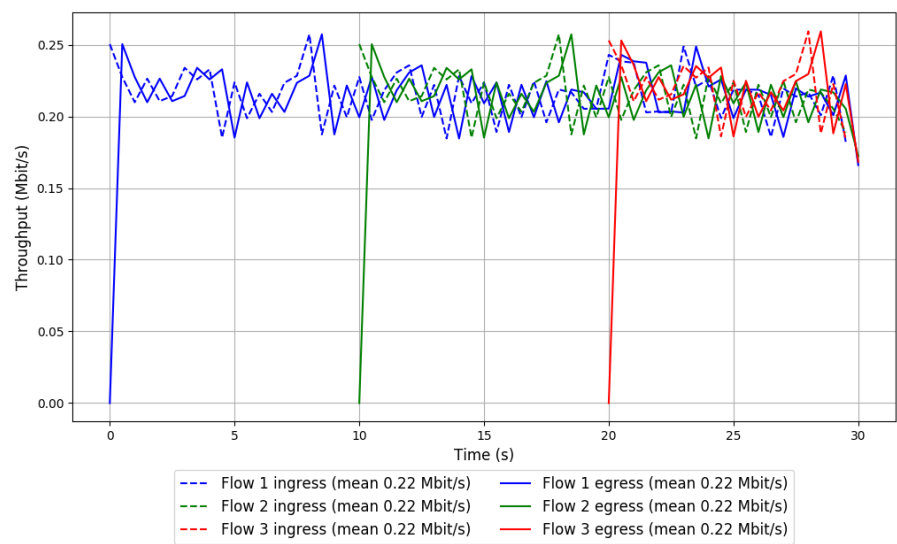
-- Flow 3:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.35%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-07-25 08:50:45

End at: 2018-07-25 08:51:15

Local clock offset: 3.579 ms

Remote clock offset: 2.4 ms

Below is generated by plot.py at 2018-07-25 14:00:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

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

Loss rate: 0.12%

-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.023 ms

Loss rate: 0.00%

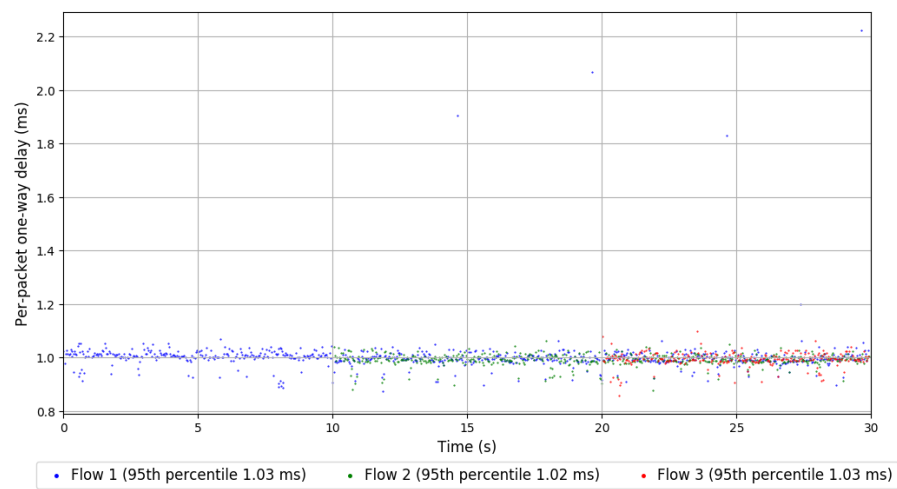
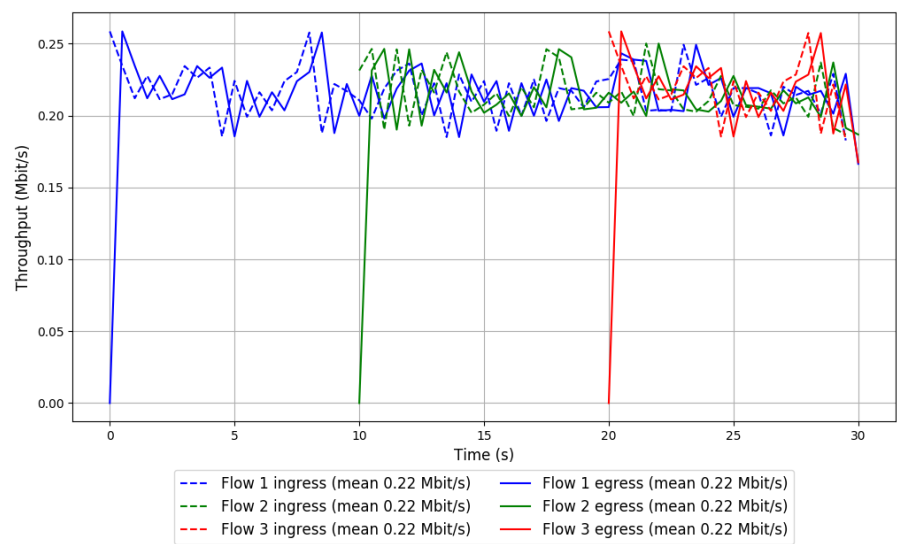
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.027 ms

Loss rate: 0.35%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-07-25 09:17:37

End at: 2018-07-25 09:18:07

Local clock offset: 3.863 ms

Remote clock offset: 2.581 ms

Below is generated by plot.py at 2018-07-25 14:00:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.062 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.19%

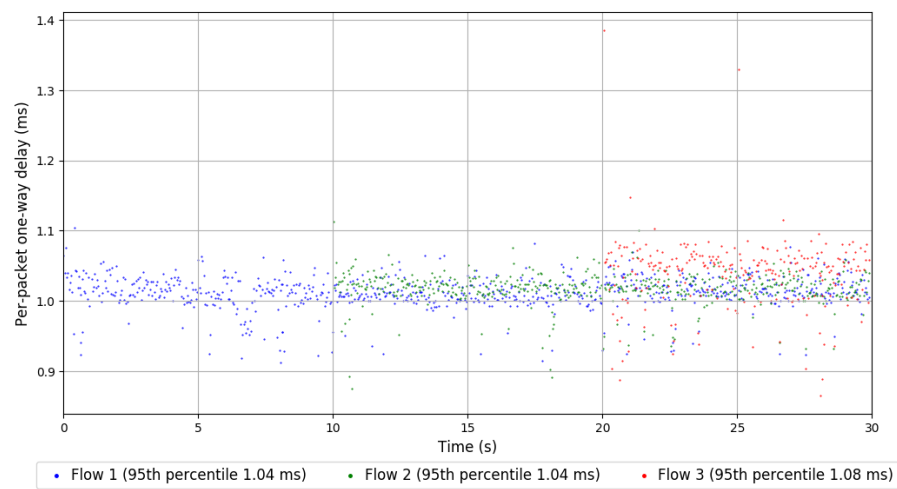
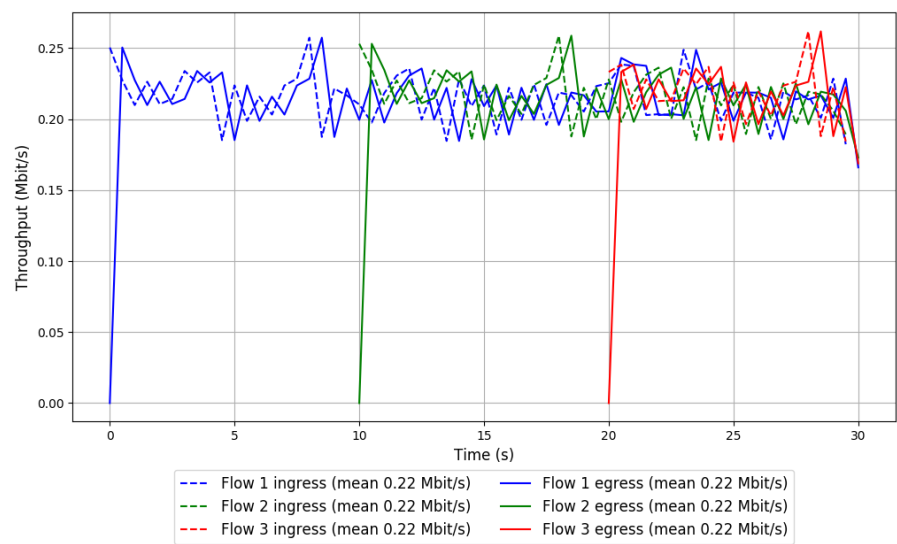
-- Flow 3:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.35%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-07-25 09:44:33

End at: 2018-07-25 09:45:03

Local clock offset: 3.735 ms

Remote clock offset: 2.378 ms

Below is generated by plot.py at 2018-07-25 14:00:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

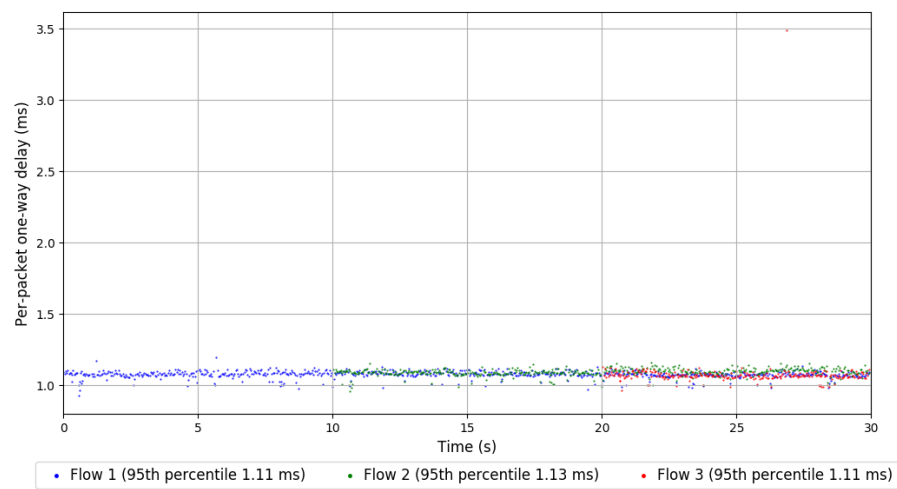
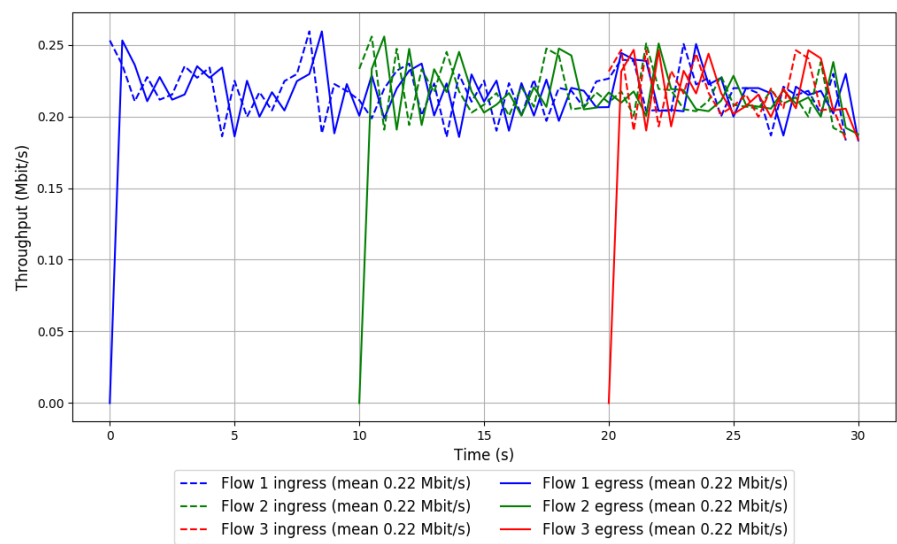
-- Flow 3:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-07-25 10:11:26

End at: 2018-07-25 10:11:56

Local clock offset: 4.039 ms

Remote clock offset: 2.198 ms

Below is generated by plot.py at 2018-07-25 14:00:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.076 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.085 ms

Loss rate: 0.20%

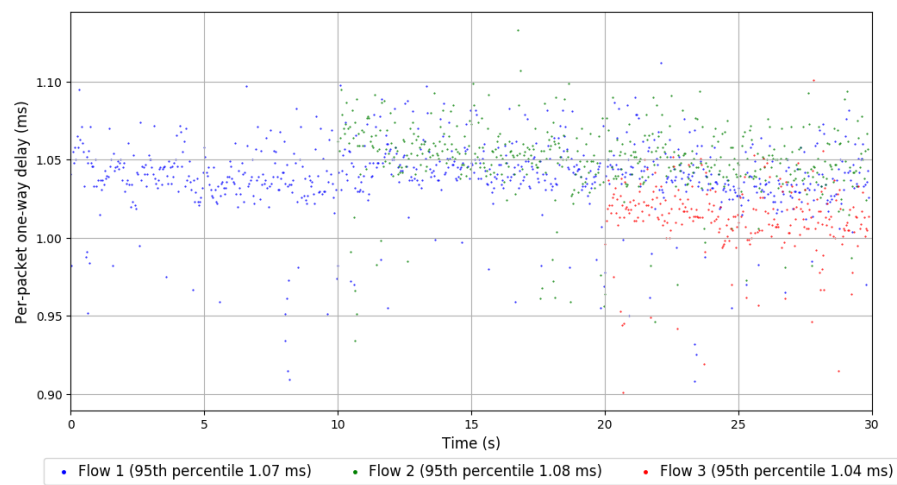
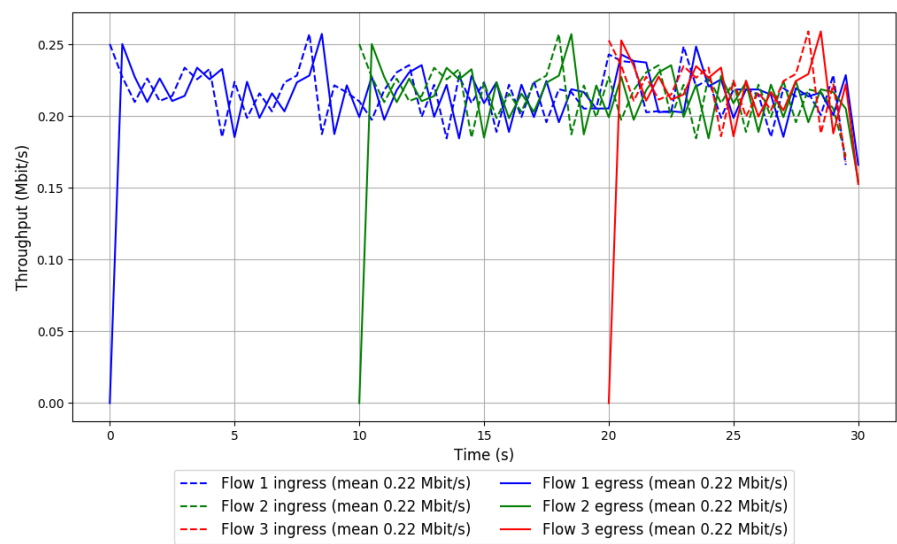
-- Flow 3:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.35%

Run 6: Report of SReAM — Data Link

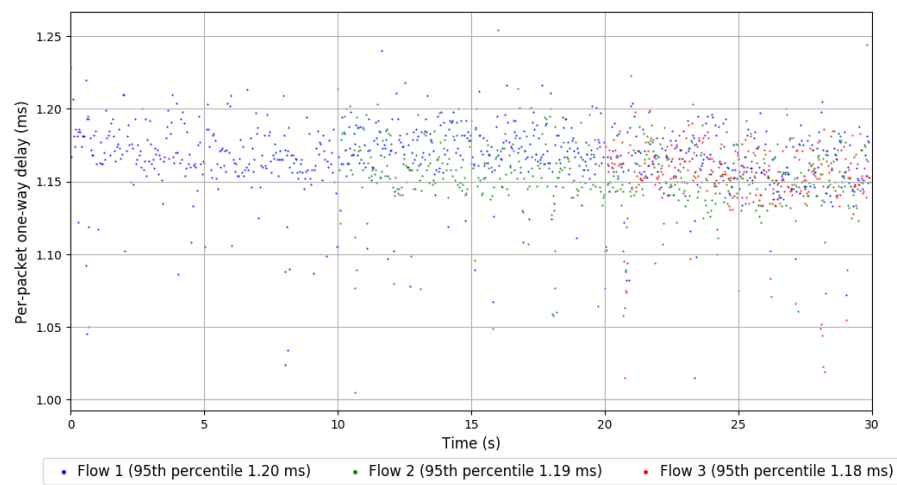
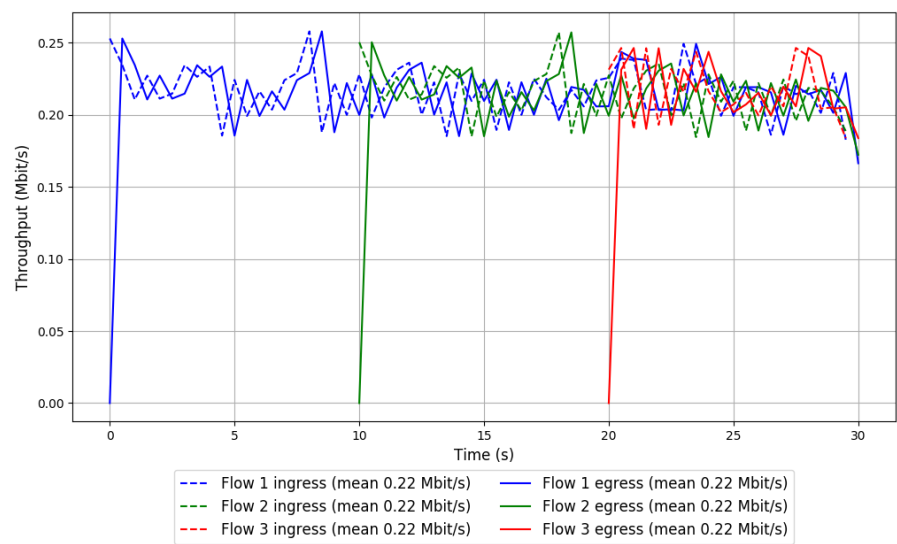


Run 7: Statistics of SReAM

Start at: 2018-07-25 10:38:14
End at: 2018-07-25 10:38:44
Local clock offset: 4.269 ms
Remote clock offset: 1.954 ms

```
# Below is generated by plot.py at 2018-07-25 14:00:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.194 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.197 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.189 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.182 ms
Loss rate: 0.00%
```

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-07-25 11:05:07

End at: 2018-07-25 11:05:37

Local clock offset: 4.32 ms

Remote clock offset: 1.853 ms

Below is generated by plot.py at 2018-07-25 14:00:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

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

Loss rate: 0.19%

-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.19%

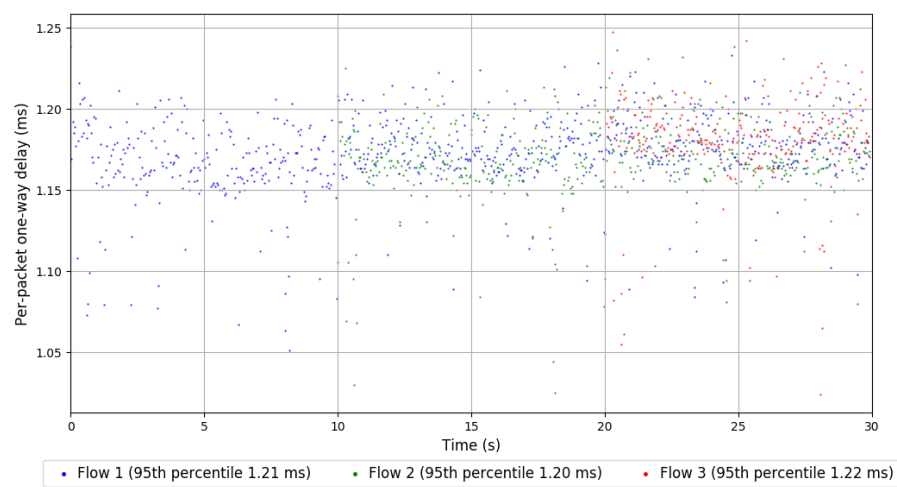
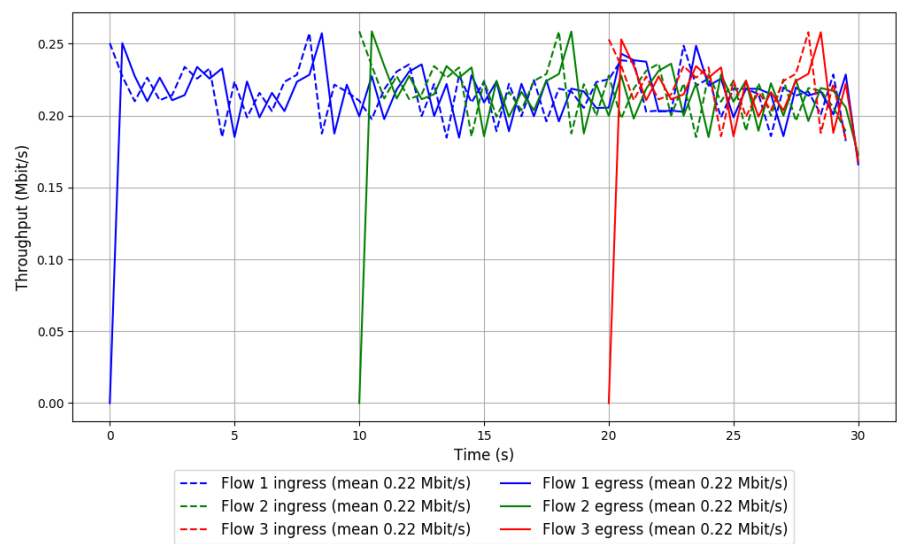
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.216 ms

Loss rate: 0.35%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-07-25 11:32:03

End at: 2018-07-25 11:32:33

Local clock offset: 4.256 ms

Remote clock offset: 1.767 ms

Below is generated by plot.py at 2018-07-25 14:00:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.164 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.172 ms

Loss rate: 0.19%

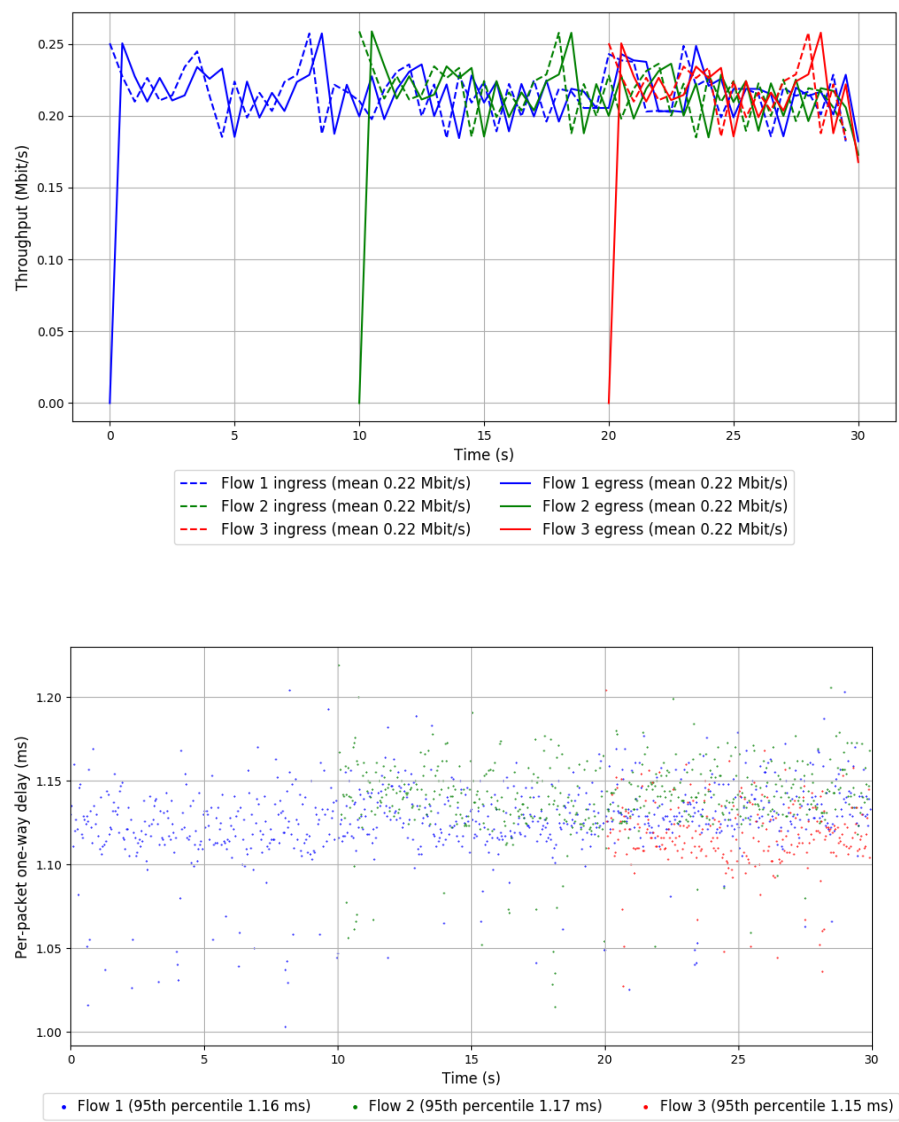
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.149 ms

Loss rate: 0.36%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SCReAM

Start at: 2018-07-25 11:58:50

End at: 2018-07-25 11:59:20

Local clock offset: 3.685 ms

Remote clock offset: 1.445 ms

Below is generated by plot.py at 2018-07-25 14:00:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.105 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.095 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

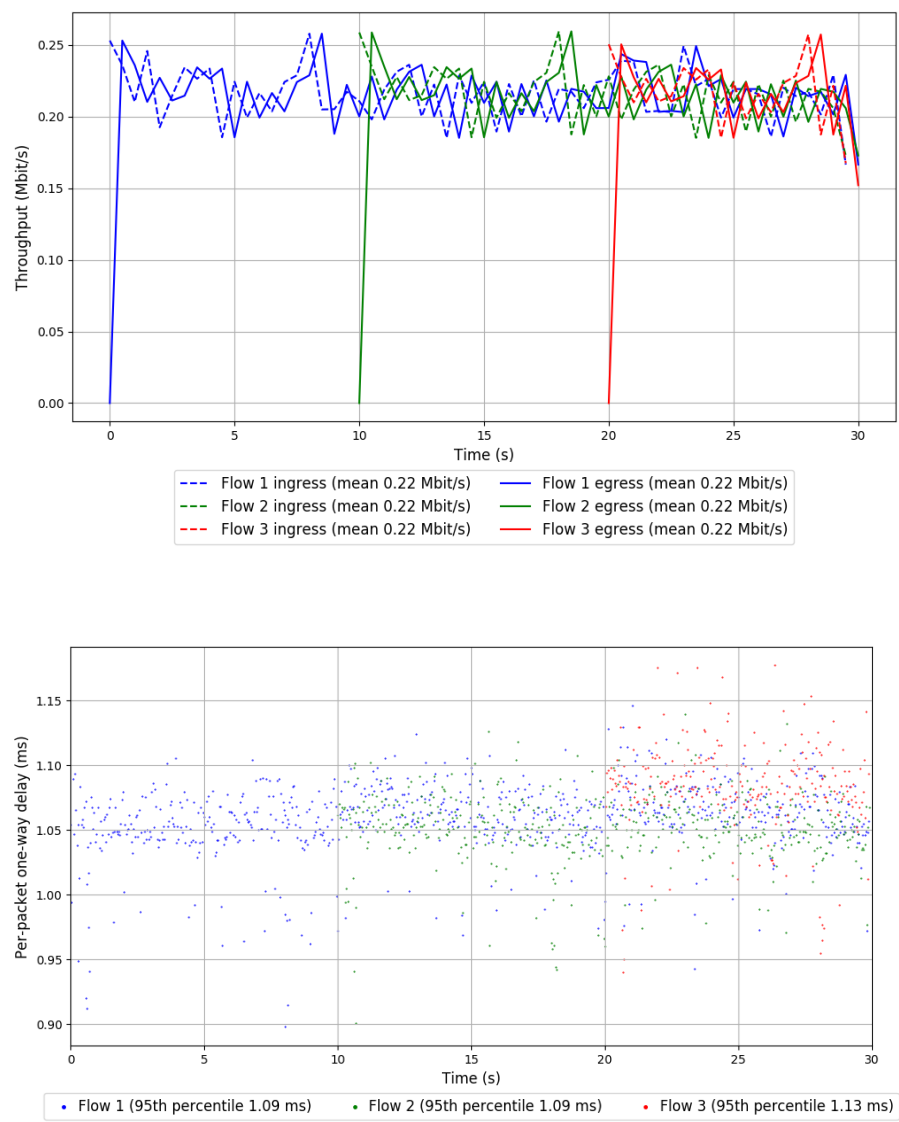
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.134 ms

Loss rate: 0.35%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-07-25 07:47:40

End at: 2018-07-25 07:48:10

Local clock offset: 3.377 ms

Remote clock offset: 1.175 ms

Below is generated by plot.py at 2018-07-25 14:00:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 42.03 Mbit/s

95th percentile per-packet one-way delay: 1.057 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 20.89 Mbit/s

95th percentile per-packet one-way delay: 1.058 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 21.12 Mbit/s

95th percentile per-packet one-way delay: 1.048 ms

Loss rate: 0.24%

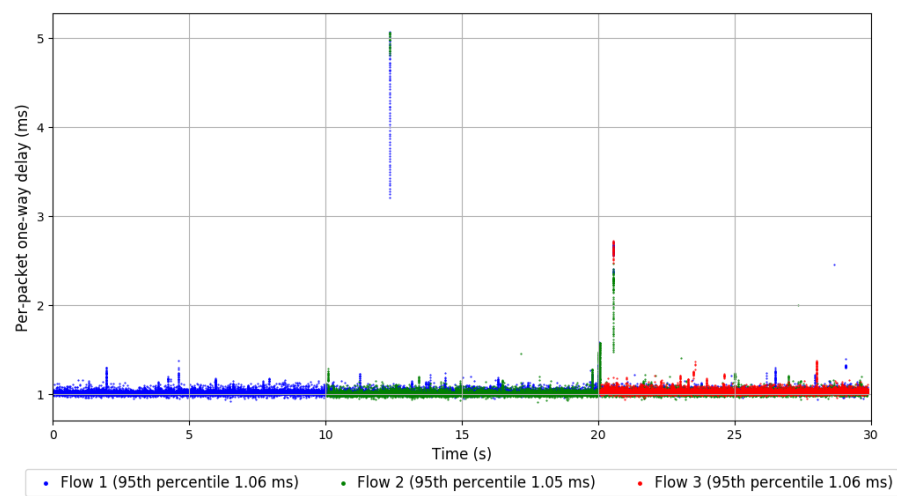
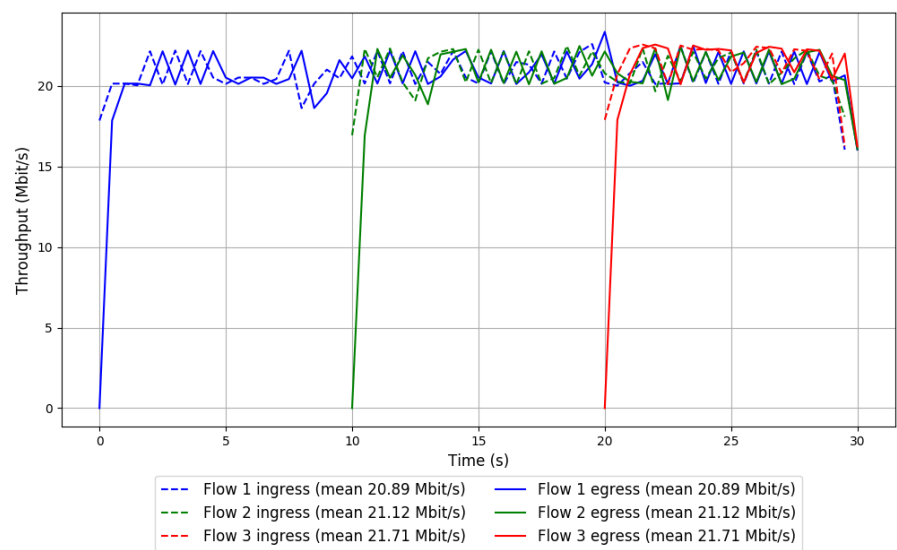
-- Flow 3:

Average throughput: 21.71 Mbit/s

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

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-07-25 08:14:31

End at: 2018-07-25 08:15:01

Local clock offset: 3.132 ms

Remote clock offset: 1.912 ms

Below is generated by plot.py at 2018-07-25 14:00:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.90 Mbit/s

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

Loss rate: 0.07%

-- Flow 1:

Average throughput: 21.23 Mbit/s

95th percentile per-packet one-way delay: 0.998 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 20.85 Mbit/s

95th percentile per-packet one-way delay: 0.986 ms

Loss rate: 0.21%

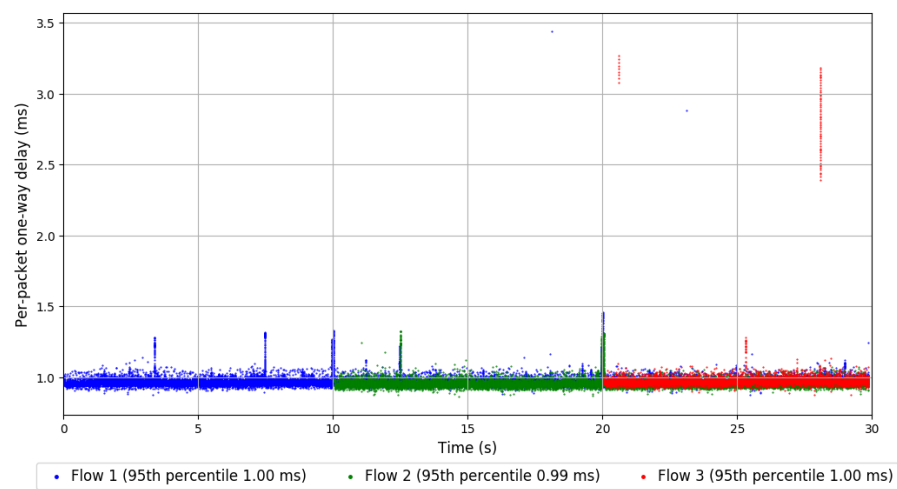
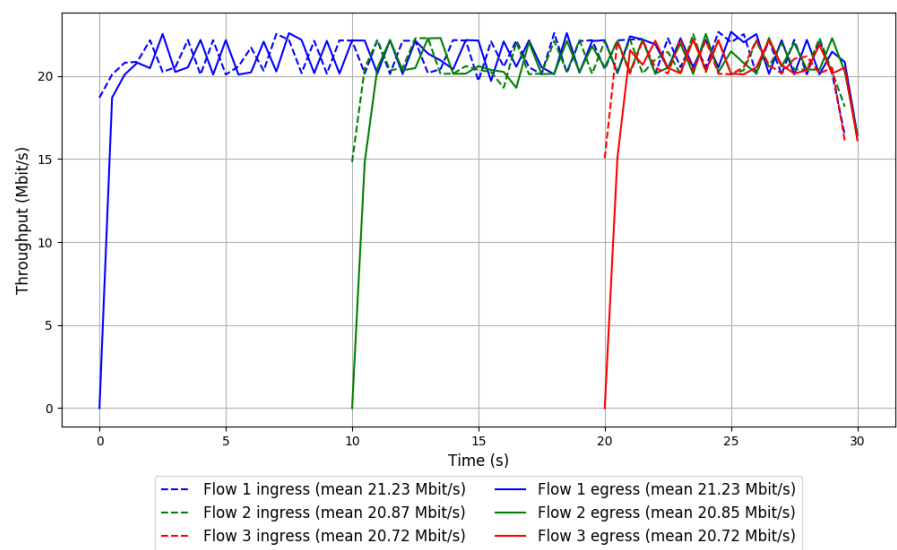
-- Flow 3:

Average throughput: 20.72 Mbit/s

95th percentile per-packet one-way delay: 1.001 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-07-25 08:41:24

End at: 2018-07-25 08:41:54

Local clock offset: 3.525 ms

Remote clock offset: 2.316 ms

Below is generated by plot.py at 2018-07-25 14:00:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.86 Mbit/s

95th percentile per-packet one-way delay: 1.062 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 21.13 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 20.99 Mbit/s

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

Loss rate: 0.24%

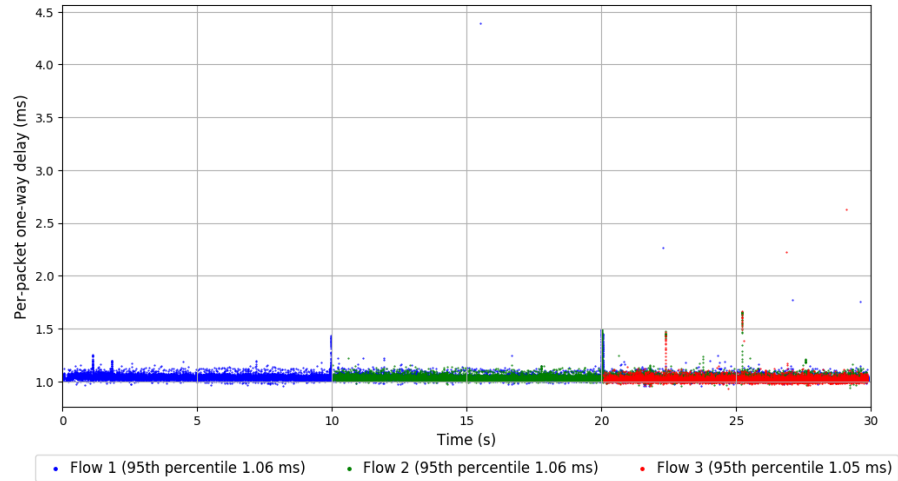
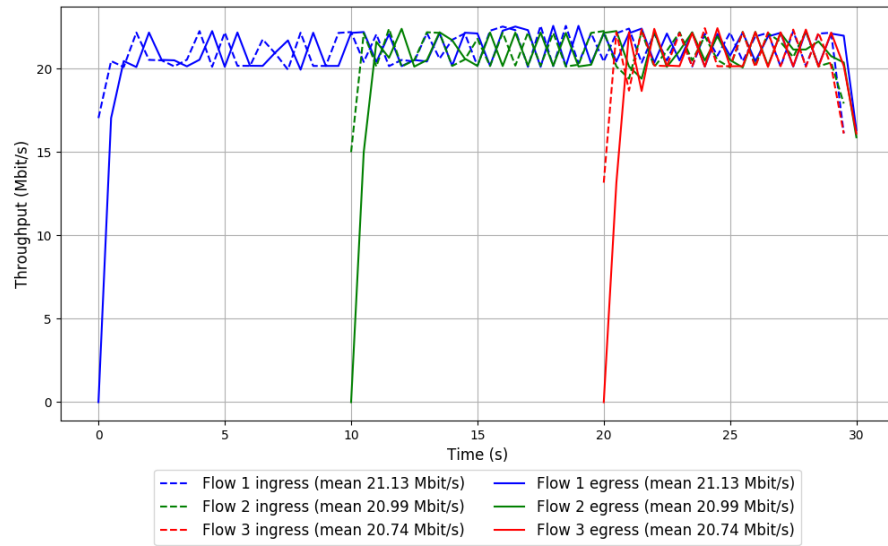
-- Flow 3:

Average throughput: 20.74 Mbit/s

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

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-07-25 09:08:25

End at: 2018-07-25 09:08:55

Local clock offset: 3.763 ms

Remote clock offset: 2.518 ms

Below is generated by plot.py at 2018-07-25 14:00:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 42.42 Mbit/s

95th percentile per-packet one-way delay: 0.962 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 21.36 Mbit/s

95th percentile per-packet one-way delay: 0.960 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 21.16 Mbit/s

95th percentile per-packet one-way delay: 0.957 ms

Loss rate: 0.00%

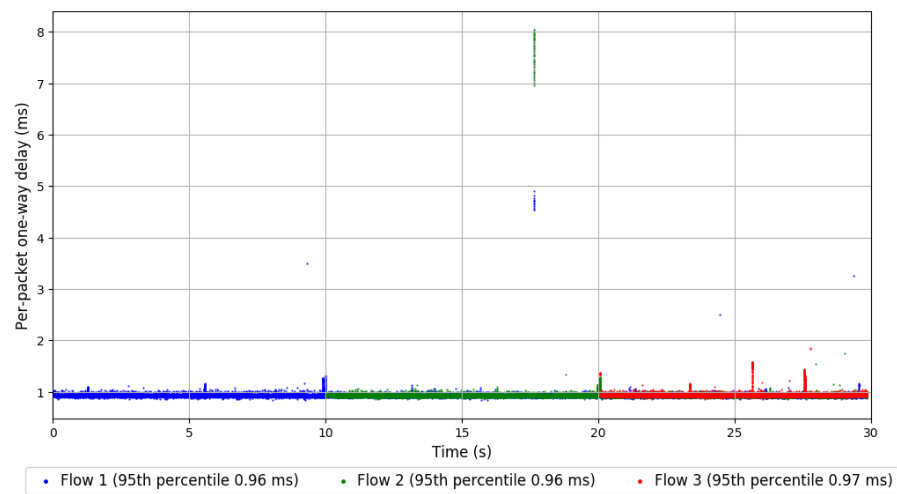
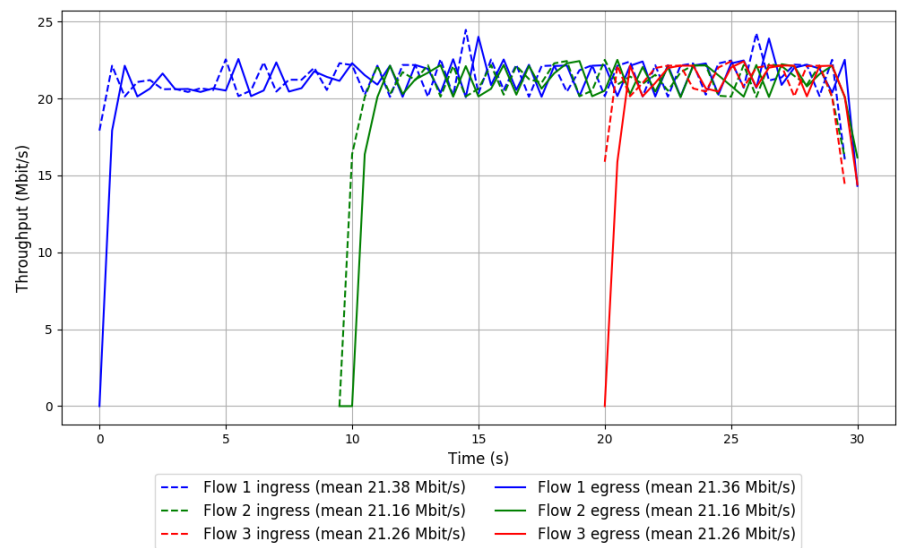
-- Flow 3:

Average throughput: 21.26 Mbit/s

95th percentile per-packet one-way delay: 0.971 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-07-25 09:35:17

End at: 2018-07-25 09:35:47

Local clock offset: 3.8 ms

Remote clock offset: 2.413 ms

Below is generated by plot.py at 2018-07-25 14:00:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 42.25 Mbit/s

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

Loss rate: 0.10%

-- Flow 1:

Average throughput: 21.38 Mbit/s

95th percentile per-packet one-way delay: 1.040 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 21.07 Mbit/s

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

Loss rate: 0.05%

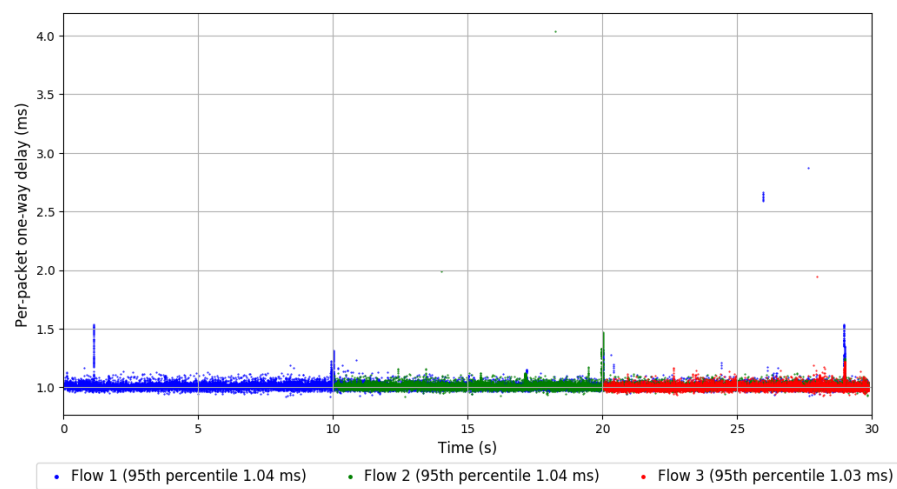
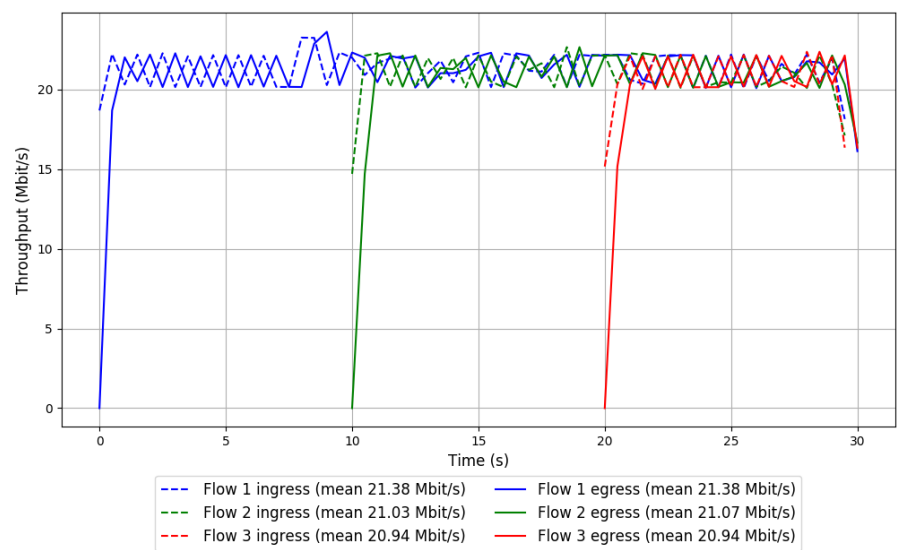
-- Flow 3:

Average throughput: 20.94 Mbit/s

95th percentile per-packet one-way delay: 1.035 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-07-25 10:02:09

End at: 2018-07-25 10:02:39

Local clock offset: 3.672 ms

Remote clock offset: 2.214 ms

Below is generated by plot.py at 2018-07-25 14:00:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 42.45 Mbit/s

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

Loss rate: 0.08%

-- Flow 1:

Average throughput: 21.34 Mbit/s

95th percentile per-packet one-way delay: 0.956 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 21.53 Mbit/s

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

Loss rate: 0.23%

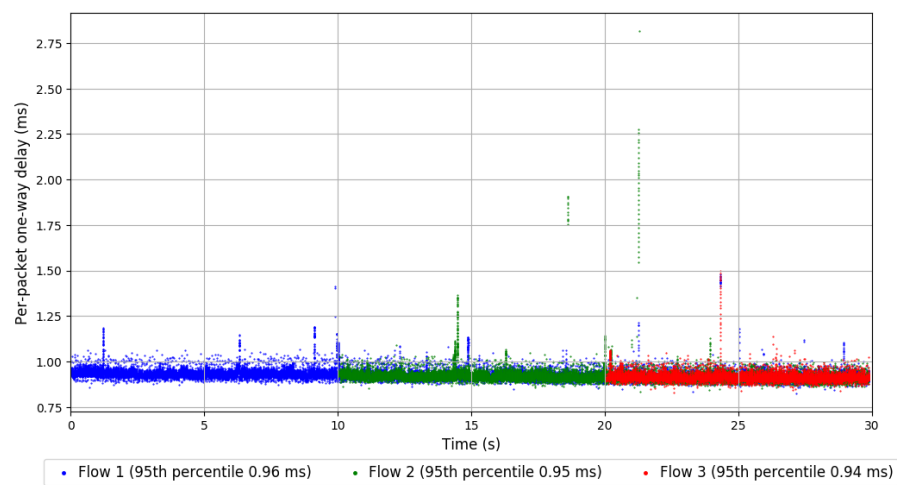
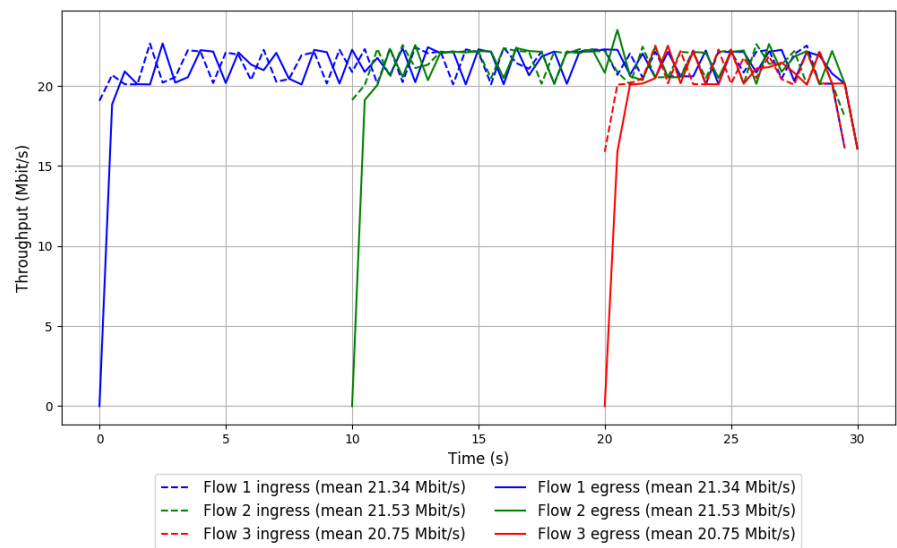
-- Flow 3:

Average throughput: 20.75 Mbit/s

95th percentile per-packet one-way delay: 0.944 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link

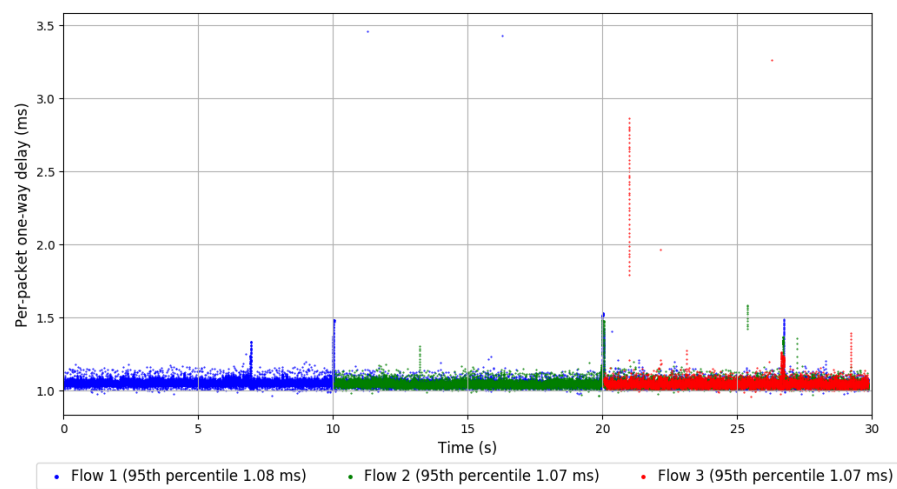
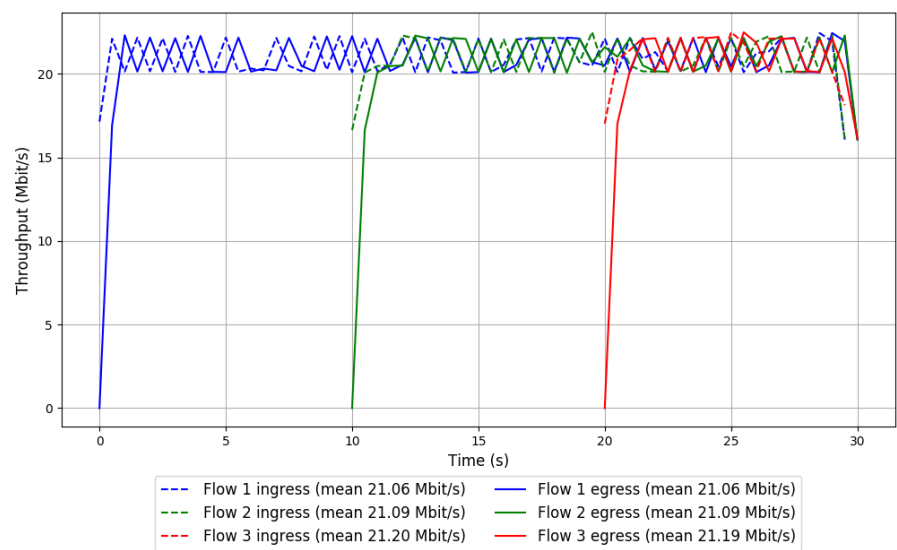


Run 7: Statistics of Sprout

Start at: 2018-07-25 10:29:00
End at: 2018-07-25 10:29:30
Local clock offset: 4.167 ms
Remote clock offset: 2.042 ms

```
# Below is generated by plot.py at 2018-07-25 14:00:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 42.03 Mbit/s
95th percentile per-packet one-way delay: 1.076 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 21.06 Mbit/s
95th percentile per-packet one-way delay: 1.078 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 21.09 Mbit/s
95th percentile per-packet one-way delay: 1.074 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 21.19 Mbit/s
95th percentile per-packet one-way delay: 1.074 ms
Loss rate: 0.48%
```


Run 7: Report of Sprout — Data Link

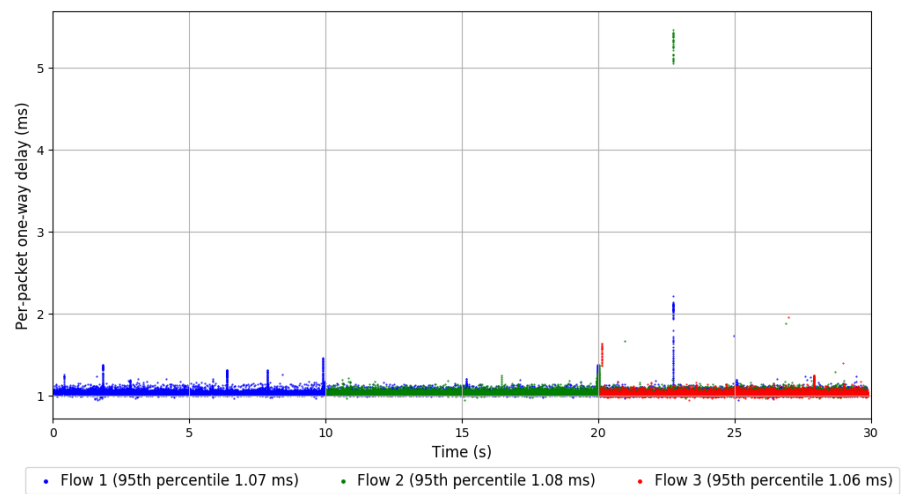
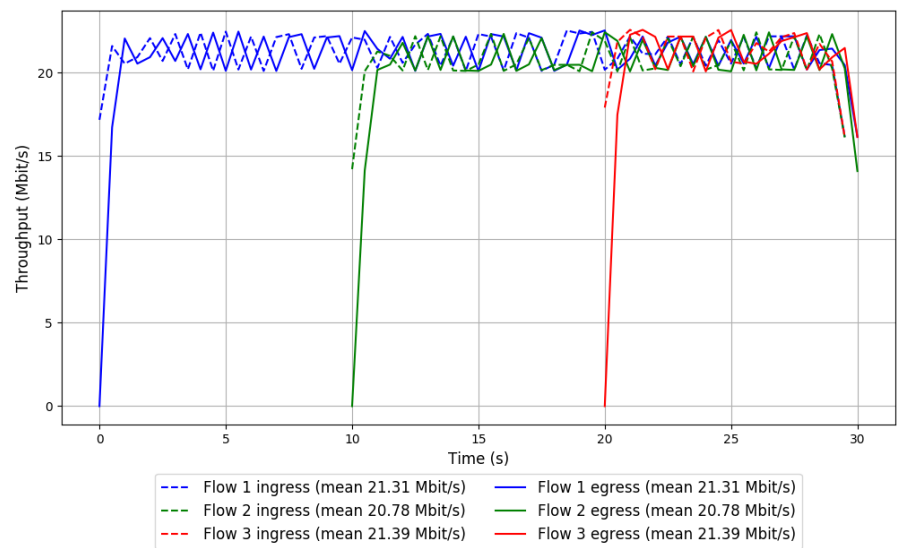


Run 8: Statistics of Sprout

Start at: 2018-07-25 10:55:51
End at: 2018-07-25 10:56:21
Local clock offset: 4.415 ms
Remote clock offset: 1.929 ms

```
# Below is generated by plot.py at 2018-07-25 14:00:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 42.15 Mbit/s
95th percentile per-packet one-way delay: 1.073 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 21.31 Mbit/s
95th percentile per-packet one-way delay: 1.074 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 20.78 Mbit/s
95th percentile per-packet one-way delay: 1.076 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 21.39 Mbit/s
95th percentile per-packet one-way delay: 1.061 ms
Loss rate: 0.00%
```

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-07-25 11:22:47

End at: 2018-07-25 11:23:17

Local clock offset: 4.135 ms

Remote clock offset: 1.838 ms

Below is generated by plot.py at 2018-07-25 14:01:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.82 Mbit/s

95th percentile per-packet one-way delay: 0.964 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 20.95 Mbit/s

95th percentile per-packet one-way delay: 0.965 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 20.95 Mbit/s

95th percentile per-packet one-way delay: 0.964 ms

Loss rate: 0.24%

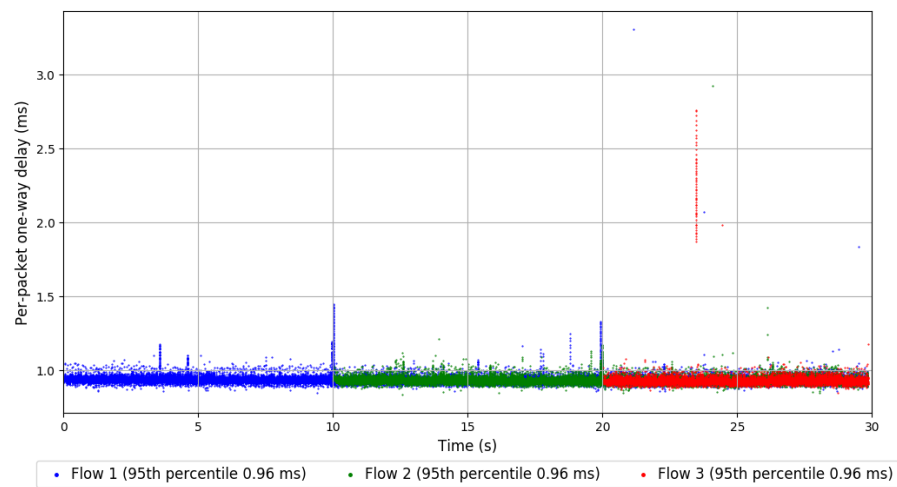
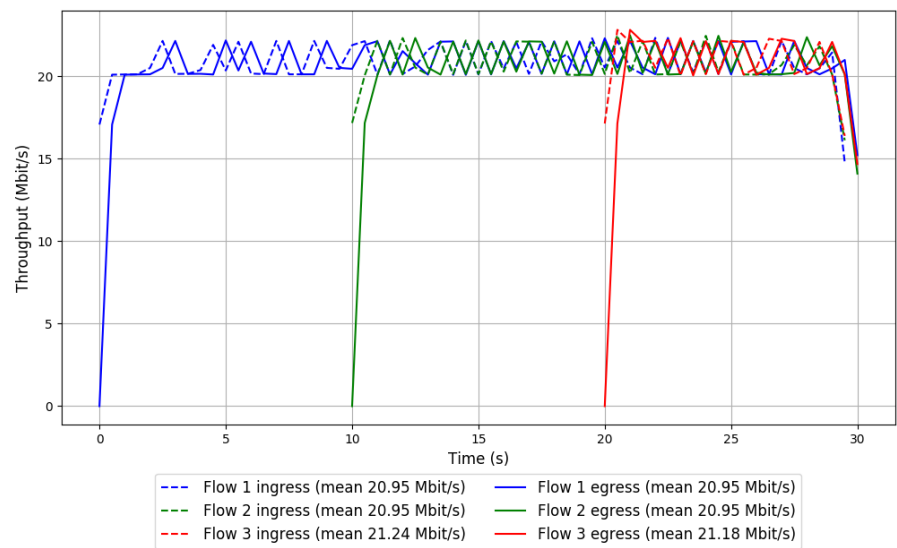
-- Flow 3:

Average throughput: 21.18 Mbit/s

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

Loss rate: 0.41%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-07-25 11:49:38

End at: 2018-07-25 11:50:08

Local clock offset: 3.836 ms

Remote clock offset: 1.621 ms

Below is generated by plot.py at 2018-07-25 14:01:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.77 Mbit/s

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

Loss rate: 0.16%

-- Flow 1:

Average throughput: 20.99 Mbit/s

95th percentile per-packet one-way delay: 1.046 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 21.05 Mbit/s

95th percentile per-packet one-way delay: 1.032 ms

Loss rate: 0.00%

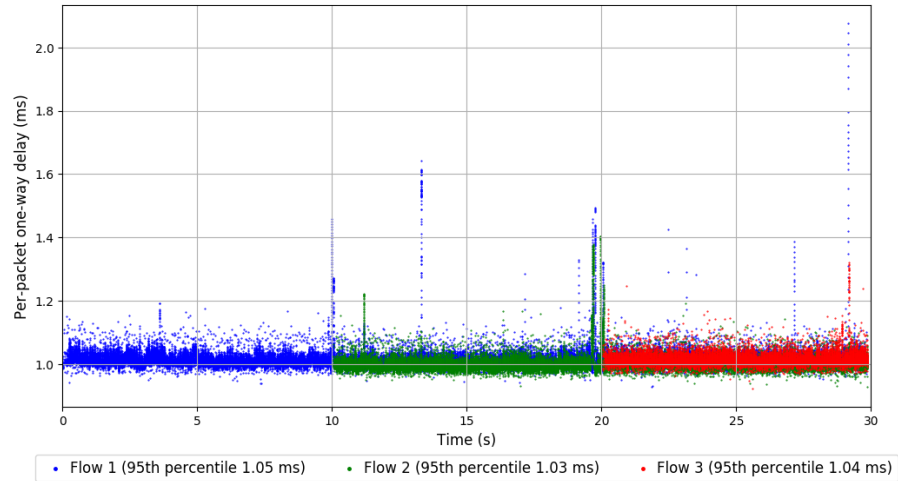
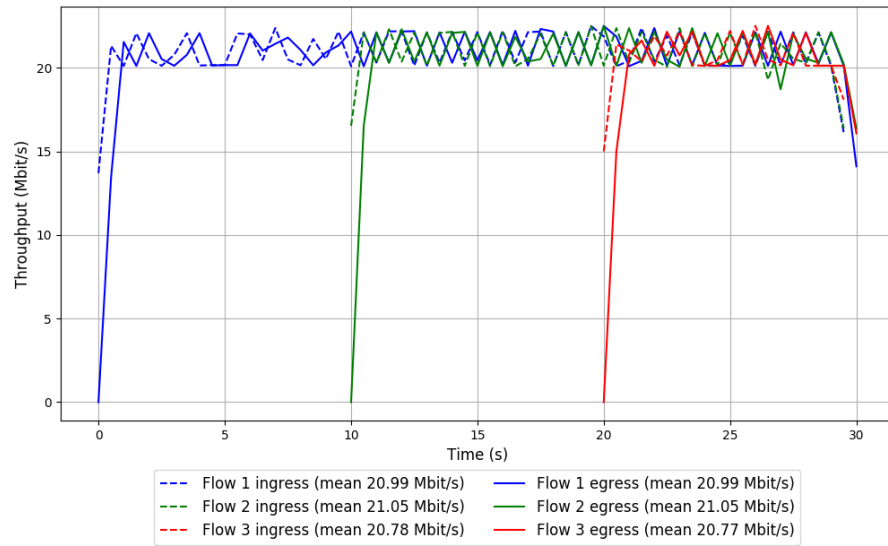
-- Flow 3:

Average throughput: 20.77 Mbit/s

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

Loss rate: 0.49%

Run 10: Report of Sprout — Data Link

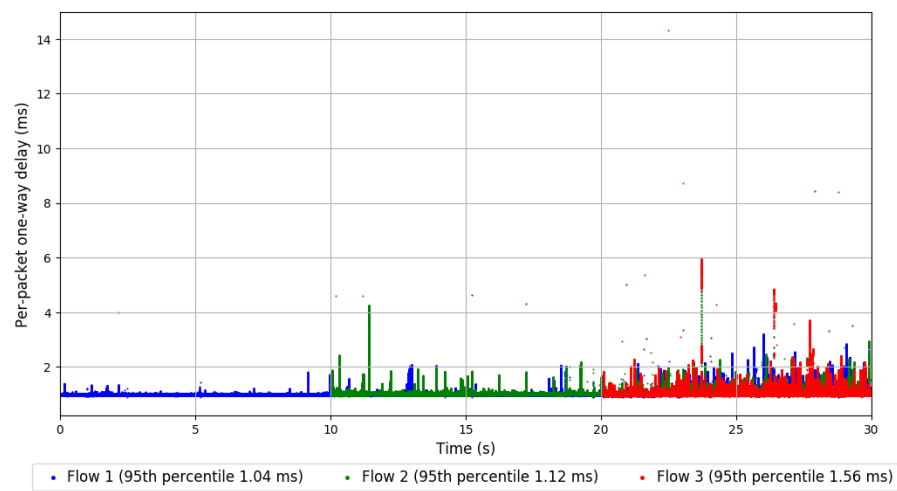
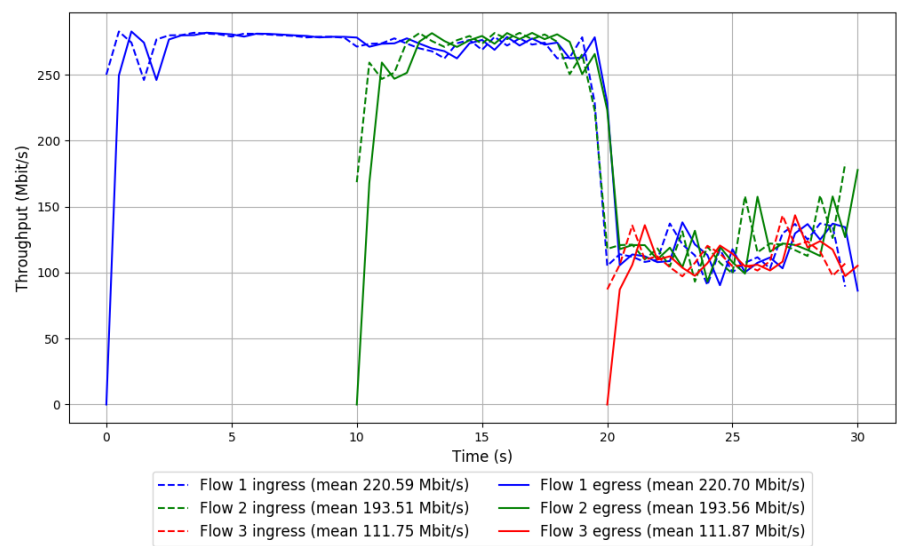


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-07-25 07:45:58
End at: 2018-07-25 07:46:28
Local clock offset: 3.388 ms
Remote clock offset: 1.128 ms

# Below is generated by plot.py at 2018-07-25 14:08:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 386.58 Mbit/s
95th percentile per-packet one-way delay: 1.137 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 220.70 Mbit/s
95th percentile per-packet one-way delay: 1.042 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 193.56 Mbit/s
95th percentile per-packet one-way delay: 1.122 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 111.87 Mbit/s
95th percentile per-packet one-way delay: 1.561 ms
Loss rate: 0.09%
```


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



Run 2: Statistics of TaoVA-100x

Start at: 2018-07-25 08:12:49

End at: 2018-07-25 08:13:19

Local clock offset: 3.216 ms

Remote clock offset: 1.819 ms

Below is generated by plot.py at 2018-07-25 14:08:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 388.68 Mbit/s

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

Loss rate: 0.07%

-- Flow 1:

Average throughput: 221.20 Mbit/s

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

Loss rate: 0.02%

-- Flow 2:

Average throughput: 192.72 Mbit/s

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

Loss rate: 0.06%

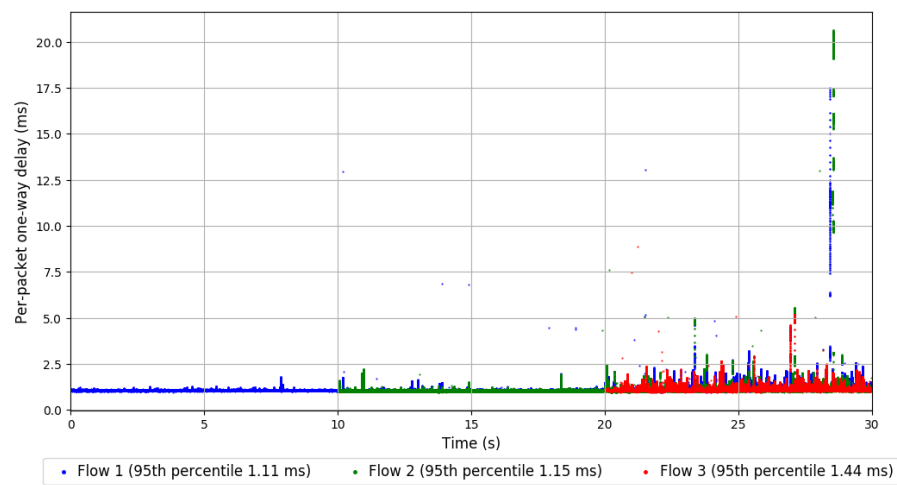
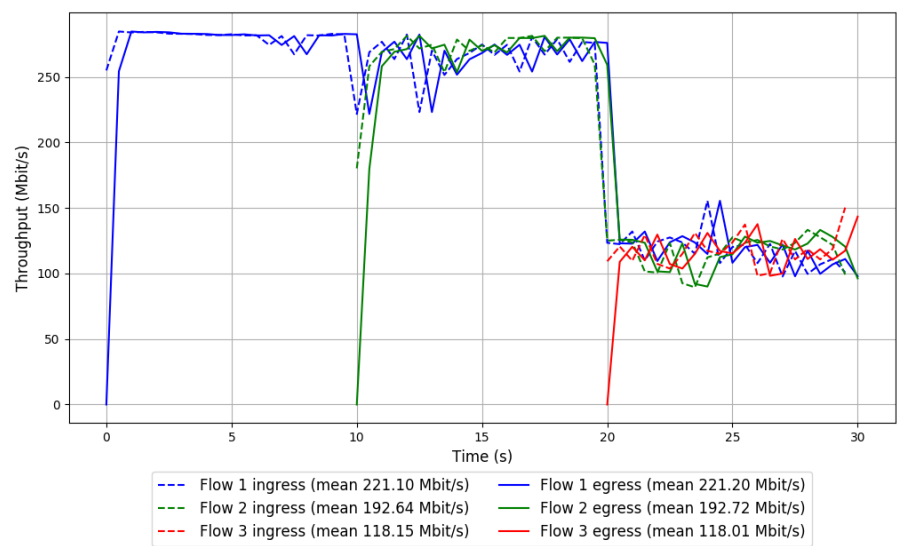
-- Flow 3:

Average throughput: 118.01 Mbit/s

95th percentile per-packet one-way delay: 1.443 ms

Loss rate: 0.36%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-07-25 08:39:42

End at: 2018-07-25 08:40:12

Local clock offset: 3.492 ms

Remote clock offset: 2.262 ms

Below is generated by plot.py at 2018-07-25 14:08:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 381.03 Mbit/s

95th percentile per-packet one-way delay: 1.142 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 216.80 Mbit/s

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

Loss rate: 0.04%

-- Flow 2:

Average throughput: 181.60 Mbit/s

95th percentile per-packet one-way delay: 1.143 ms

Loss rate: 0.07%

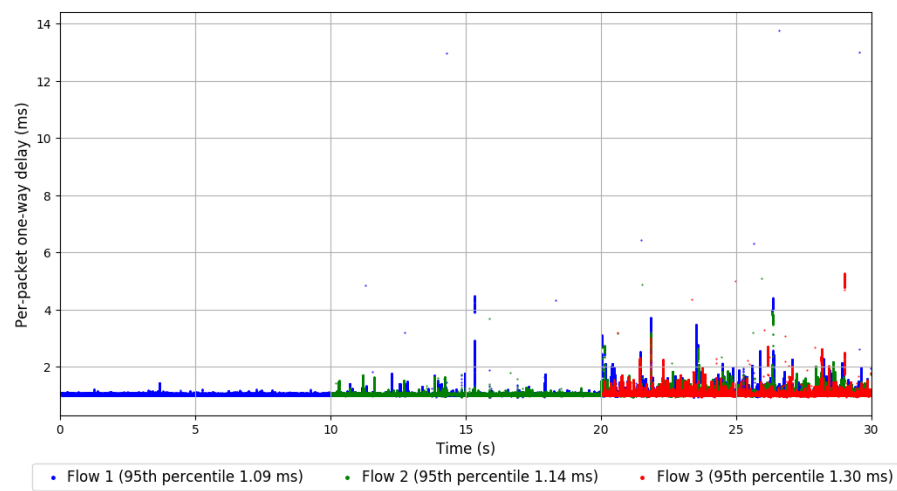
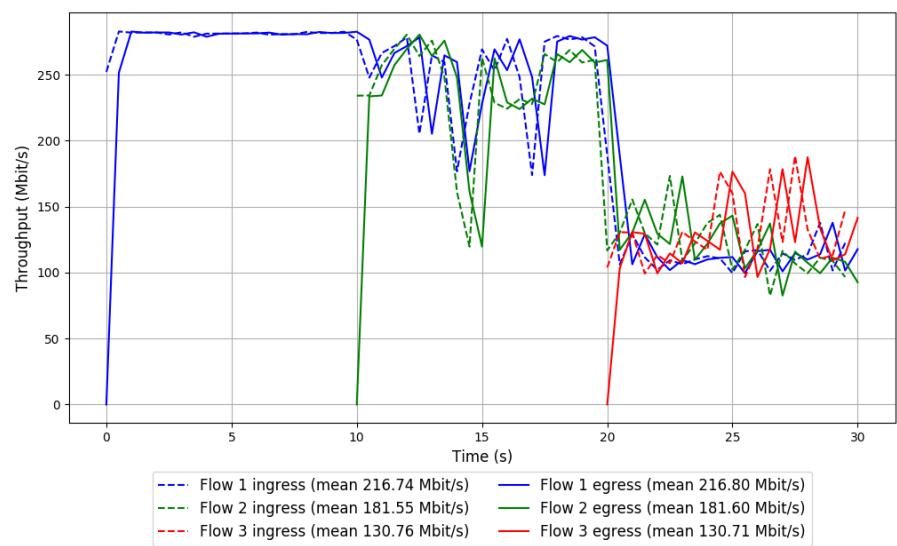
-- Flow 3:

Average throughput: 130.71 Mbit/s

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

Loss rate: 0.24%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-07-25 09:06:43

End at: 2018-07-25 09:07:13

Local clock offset: 3.743 ms

Remote clock offset: 2.519 ms

Below is generated by plot.py at 2018-07-25 14:08:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 392.04 Mbit/s

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

Loss rate: 0.06%

-- Flow 1:

Average throughput: 220.68 Mbit/s

95th percentile per-packet one-way delay: 0.929 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 199.55 Mbit/s

95th percentile per-packet one-way delay: 0.960 ms

Loss rate: 0.06%

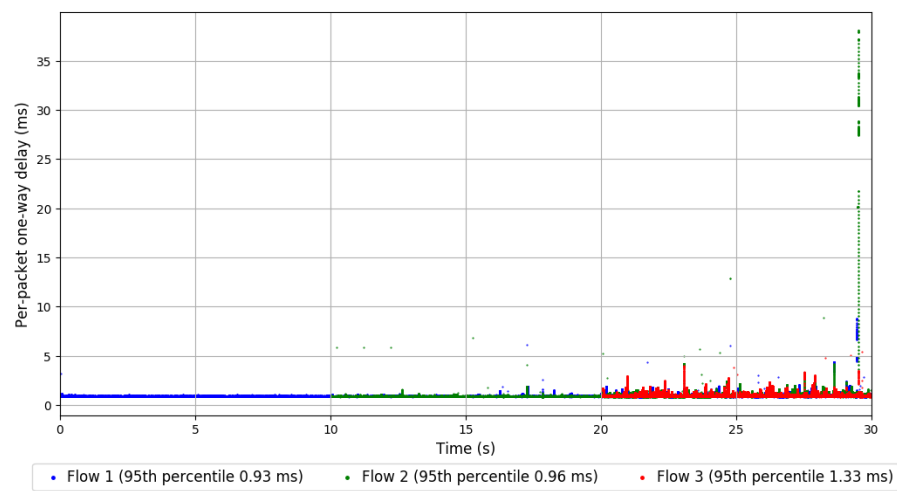
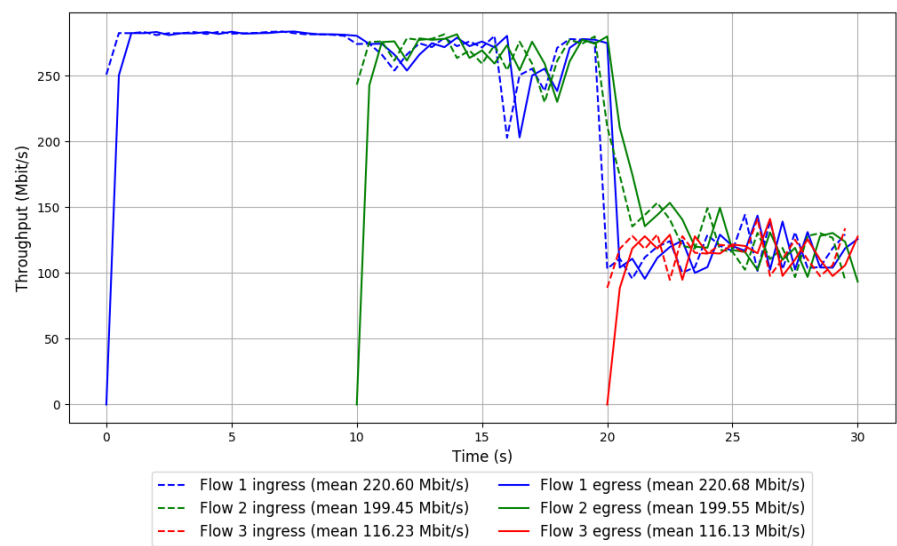
-- Flow 3:

Average throughput: 116.13 Mbit/s

95th percentile per-packet one-way delay: 1.327 ms

Loss rate: 0.28%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-07-25 09:33:36

End at: 2018-07-25 09:34:06

Local clock offset: 3.945 ms

Remote clock offset: 2.481 ms

Below is generated by plot.py at 2018-07-25 14:08:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 389.46 Mbit/s

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

Loss rate: 0.09%

-- Flow 1:

Average throughput: 215.81 Mbit/s

95th percentile per-packet one-way delay: 1.113 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 200.42 Mbit/s

95th percentile per-packet one-way delay: 1.111 ms

Loss rate: 0.07%

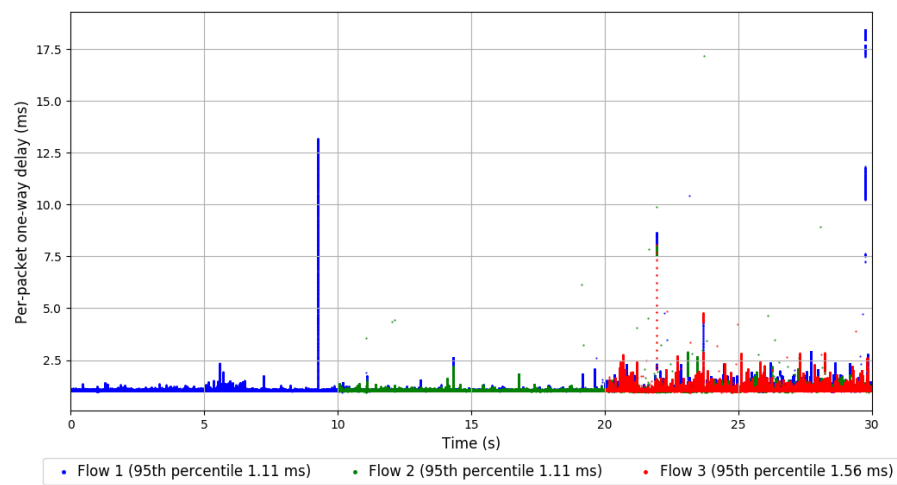
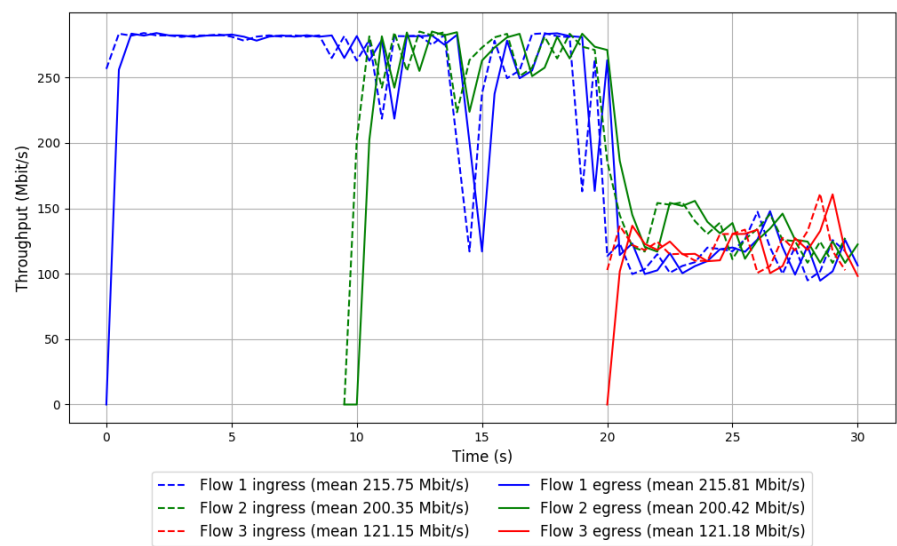
-- Flow 3:

Average throughput: 121.18 Mbit/s

95th percentile per-packet one-way delay: 1.565 ms

Loss rate: 0.22%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-07-25 10:00:26

End at: 2018-07-25 10:00:56

Local clock offset: 3.734 ms

Remote clock offset: 2.174 ms

Below is generated by plot.py at 2018-07-25 14:09:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 403.58 Mbit/s

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

Loss rate: 0.06%

-- Flow 1:

Average throughput: 231.18 Mbit/s

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

Loss rate: 0.03%

-- Flow 2:

Average throughput: 192.98 Mbit/s

95th percentile per-packet one-way delay: 1.136 ms

Loss rate: 0.04%

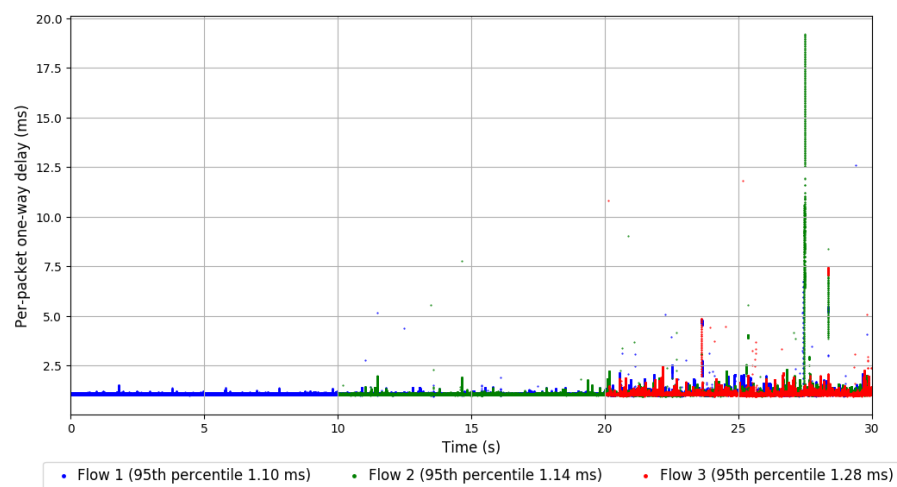
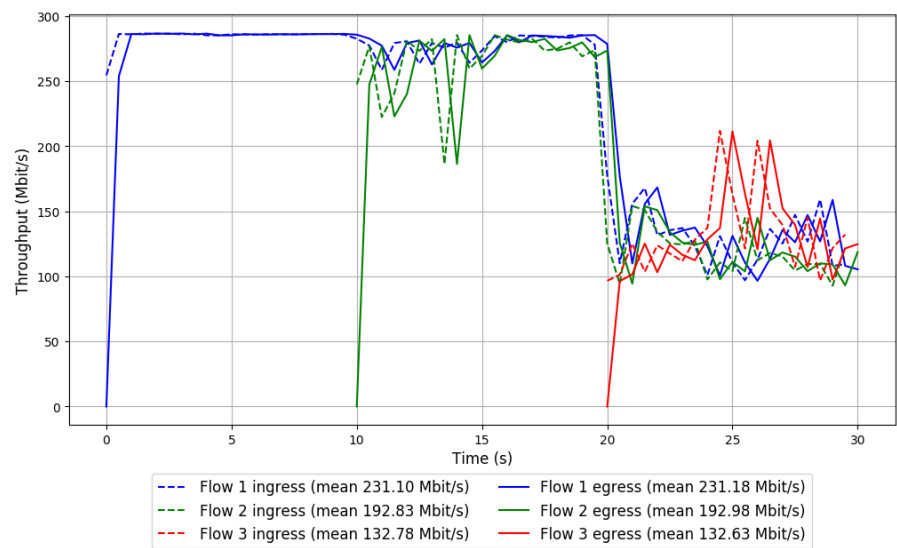
-- Flow 3:

Average throughput: 132.63 Mbit/s

95th percentile per-packet one-way delay: 1.284 ms

Loss rate: 0.30%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-07-25 10:27:19

End at: 2018-07-25 10:27:49

Local clock offset: 4.063 ms

Remote clock offset: 2.001 ms

Below is generated by plot.py at 2018-07-25 14:09:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 395.03 Mbit/s

95th percentile per-packet one-way delay: 1.022 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 227.34 Mbit/s

95th percentile per-packet one-way delay: 1.003 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 190.86 Mbit/s

95th percentile per-packet one-way delay: 1.024 ms

Loss rate: 0.05%

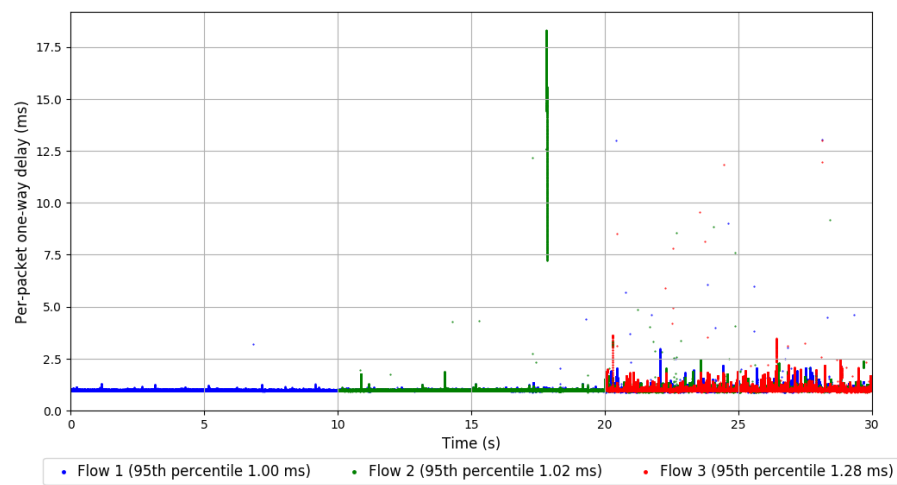
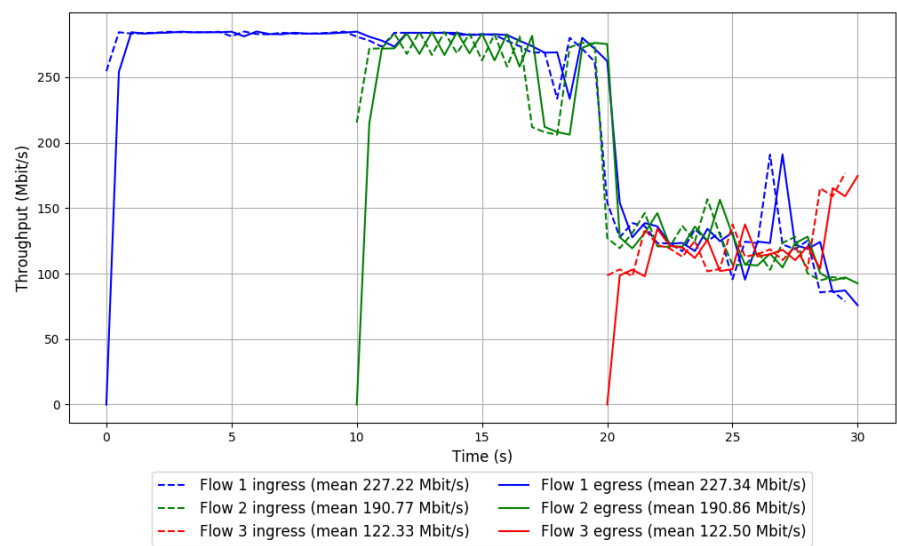
-- Flow 3:

Average throughput: 122.50 Mbit/s

95th percentile per-packet one-way delay: 1.284 ms

Loss rate: 0.08%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-07-25 10:54:09

End at: 2018-07-25 10:54:39

Local clock offset: 4.265 ms

Remote clock offset: 1.89 ms

Below is generated by plot.py at 2018-07-25 14:09:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 391.43 Mbit/s

95th percentile per-packet one-way delay: 0.981 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 221.87 Mbit/s

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

Loss rate: 0.03%

-- Flow 2:

Average throughput: 198.63 Mbit/s

95th percentile per-packet one-way delay: 0.965 ms

Loss rate: 0.09%

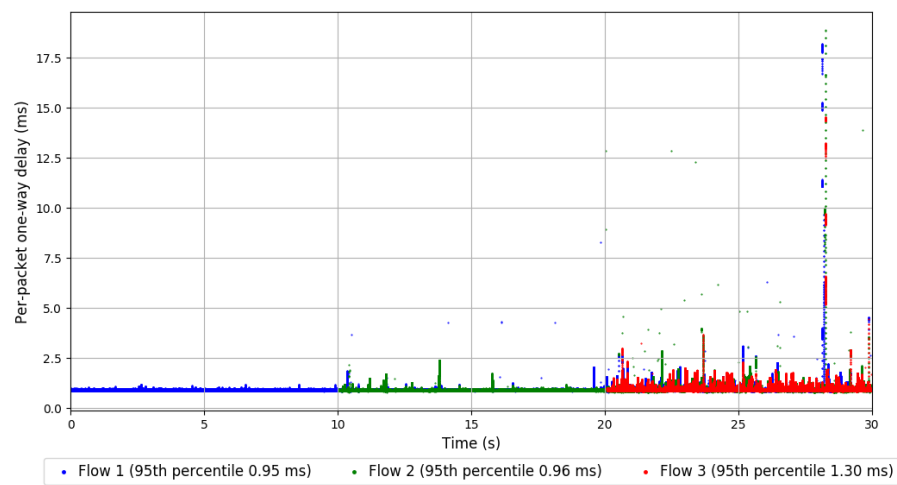
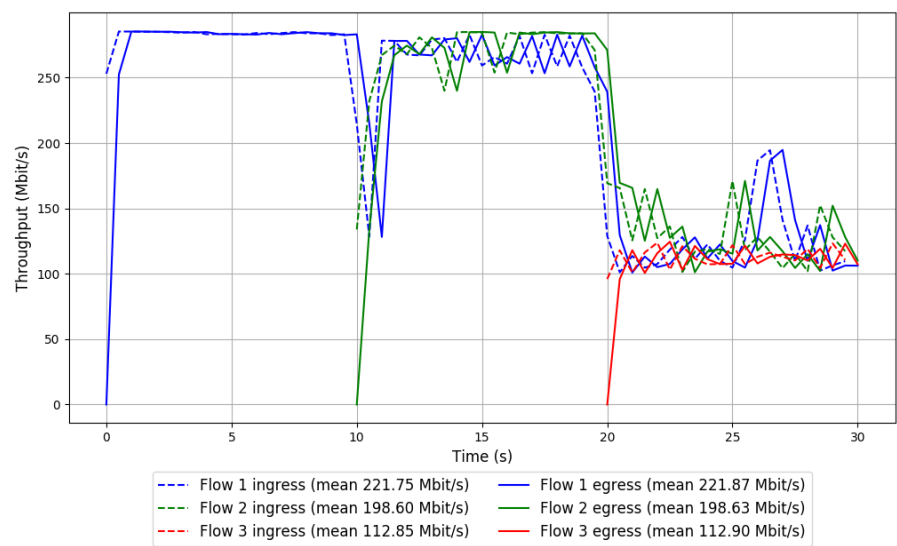
-- Flow 3:

Average throughput: 112.90 Mbit/s

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

Loss rate: 0.16%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-07-25 11:21:05

End at: 2018-07-25 11:21:35

Local clock offset: 4.121 ms

Remote clock offset: 1.808 ms

Below is generated by plot.py at 2018-07-25 14:16:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 393.86 Mbit/s

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

Loss rate: 0.05%

-- Flow 1:

Average throughput: 221.75 Mbit/s

95th percentile per-packet one-way delay: 0.987 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 199.33 Mbit/s

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

Loss rate: 0.07%

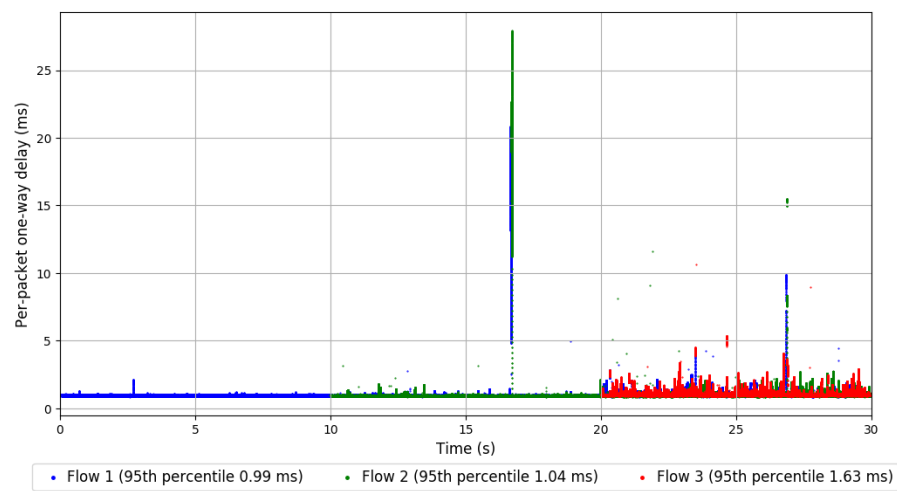
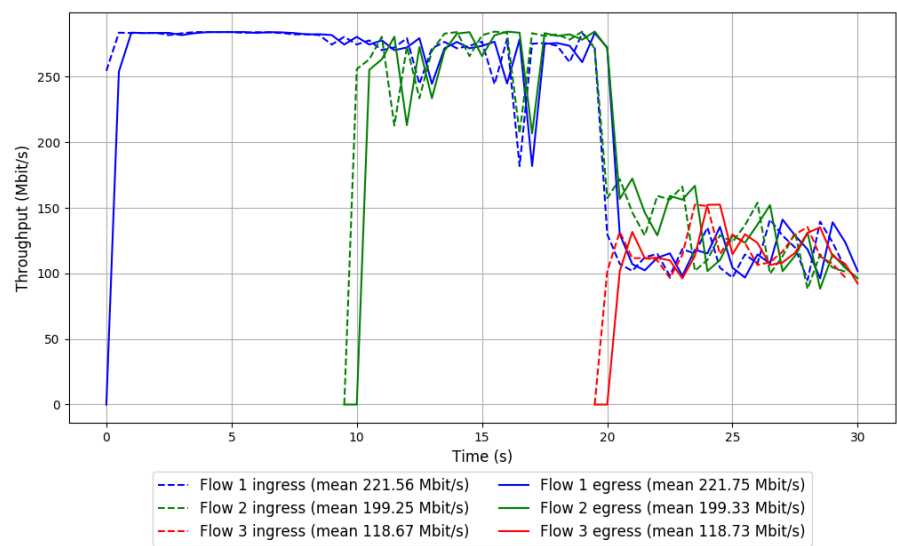
-- Flow 3:

Average throughput: 118.73 Mbit/s

95th percentile per-packet one-way delay: 1.631 ms

Loss rate: 0.20%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-07-25 11:47:56

End at: 2018-07-25 11:48:26

Local clock offset: 3.762 ms

Remote clock offset: 1.551 ms

Below is generated by plot.py at 2018-07-25 14:16:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 400.15 Mbit/s

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

Loss rate: 0.06%

-- Flow 1:

Average throughput: 223.49 Mbit/s

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

Loss rate: 0.02%

-- Flow 2:

Average throughput: 203.18 Mbit/s

95th percentile per-packet one-way delay: 1.062 ms

Loss rate: 0.07%

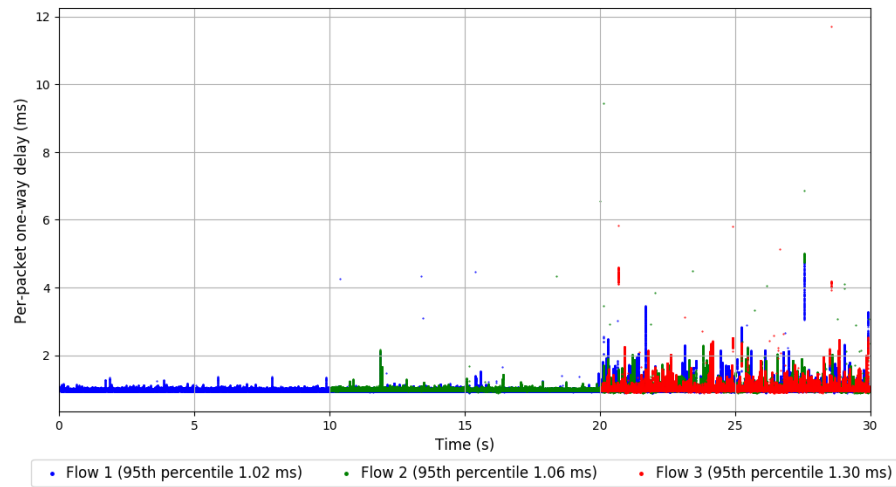
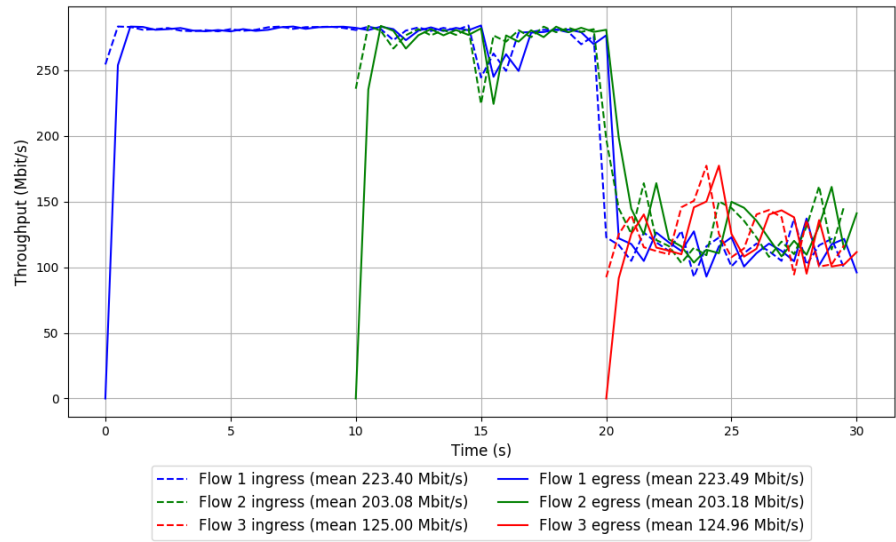
-- Flow 3:

Average throughput: 124.96 Mbit/s

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

Loss rate: 0.21%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-07-25 07:55:20

End at: 2018-07-25 07:55:50

Local clock offset: 3.382 ms

Remote clock offset: 1.46 ms

Below is generated by plot.py at 2018-07-25 14:16:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 620.45 Mbit/s

95th percentile per-packet one-way delay: 1.734 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 321.16 Mbit/s

95th percentile per-packet one-way delay: 1.626 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 268.79 Mbit/s

95th percentile per-packet one-way delay: 1.767 ms

Loss rate: 0.10%

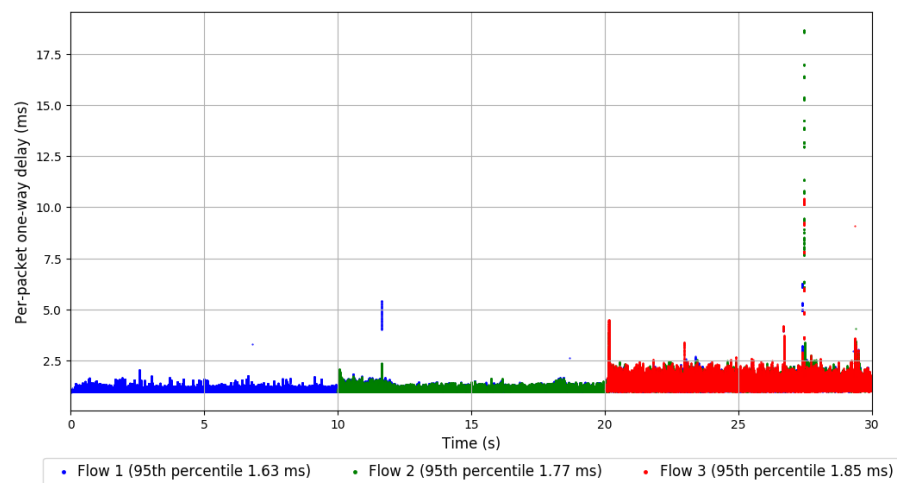
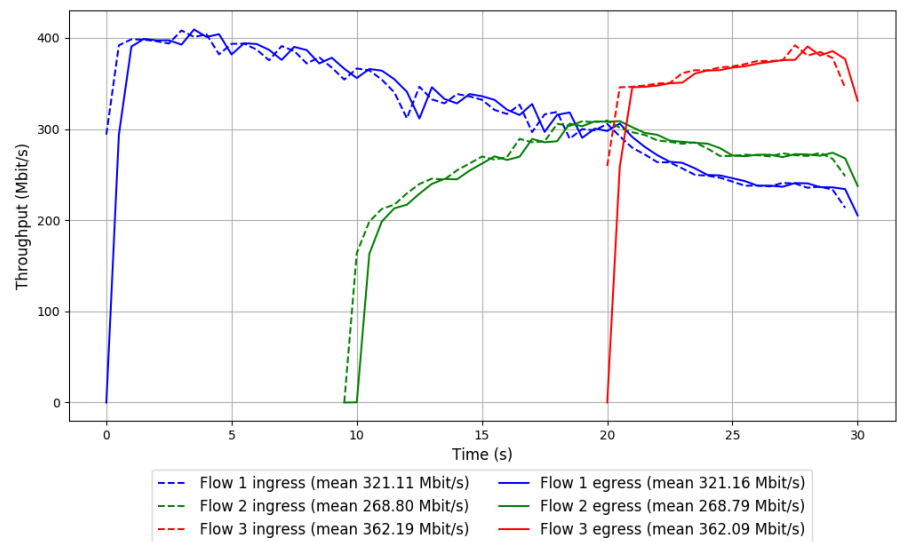
-- Flow 3:

Average throughput: 362.09 Mbit/s

95th percentile per-packet one-way delay: 1.846 ms

Loss rate: 0.22%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-07-25 08:22:10

End at: 2018-07-25 08:22:40

Local clock offset: 3.082 ms

Remote clock offset: 2.011 ms

Below is generated by plot.py at 2018-07-25 14:16:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 637.07 Mbit/s

95th percentile per-packet one-way delay: 2.158 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 300.87 Mbit/s

95th percentile per-packet one-way delay: 1.838 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 345.38 Mbit/s

95th percentile per-packet one-way delay: 2.068 ms

Loss rate: 0.09%

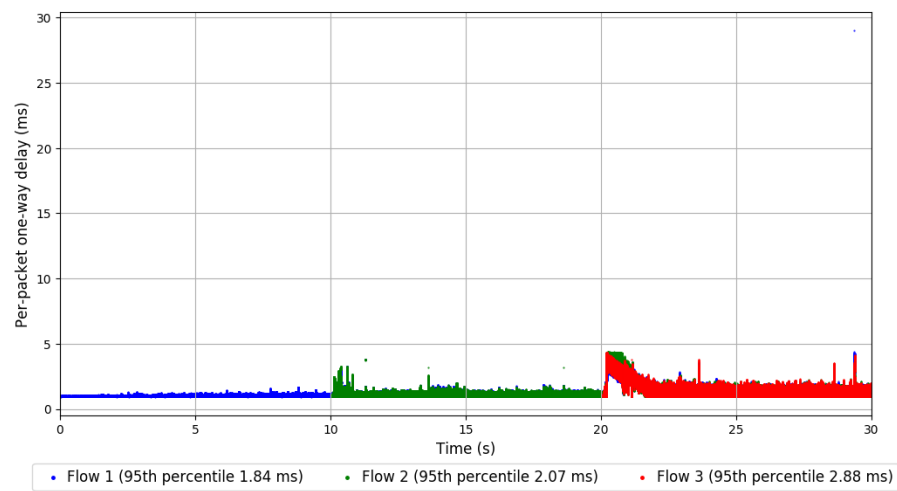
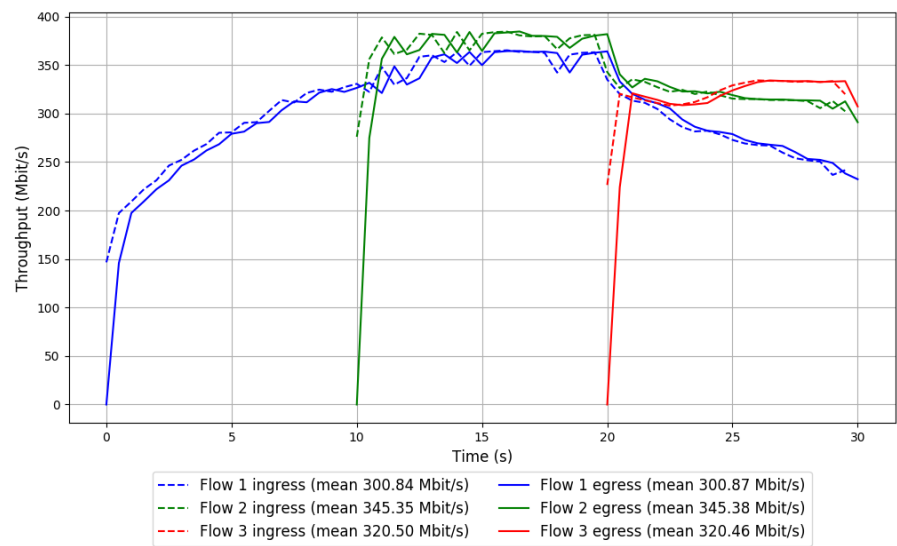
-- Flow 3:

Average throughput: 320.46 Mbit/s

95th percentile per-packet one-way delay: 2.884 ms

Loss rate: 0.21%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-07-25 08:49:05

End at: 2018-07-25 08:49:35

Local clock offset: 3.642 ms

Remote clock offset: 2.35 ms

Below is generated by plot.py at 2018-07-25 14:16:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 658.81 Mbit/s

95th percentile per-packet one-way delay: 1.722 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 241.63 Mbit/s

95th percentile per-packet one-way delay: 1.663 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 539.70 Mbit/s

95th percentile per-packet one-way delay: 1.755 ms

Loss rate: 0.07%

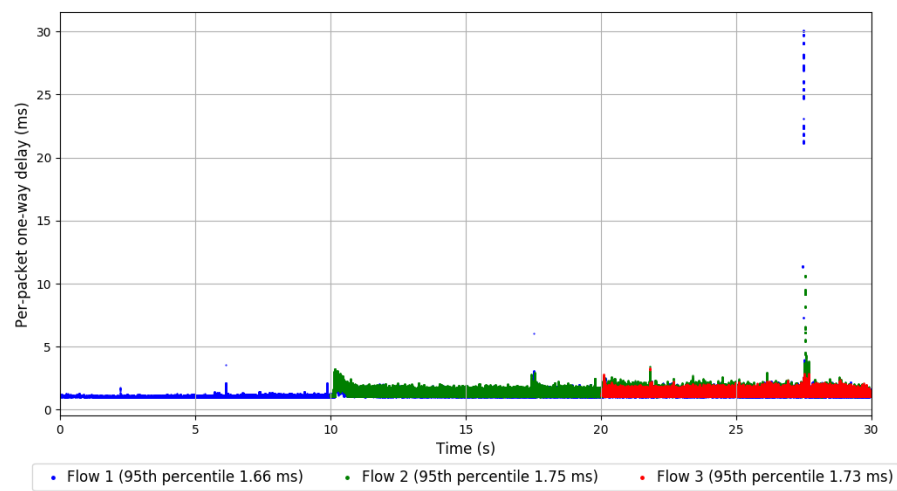
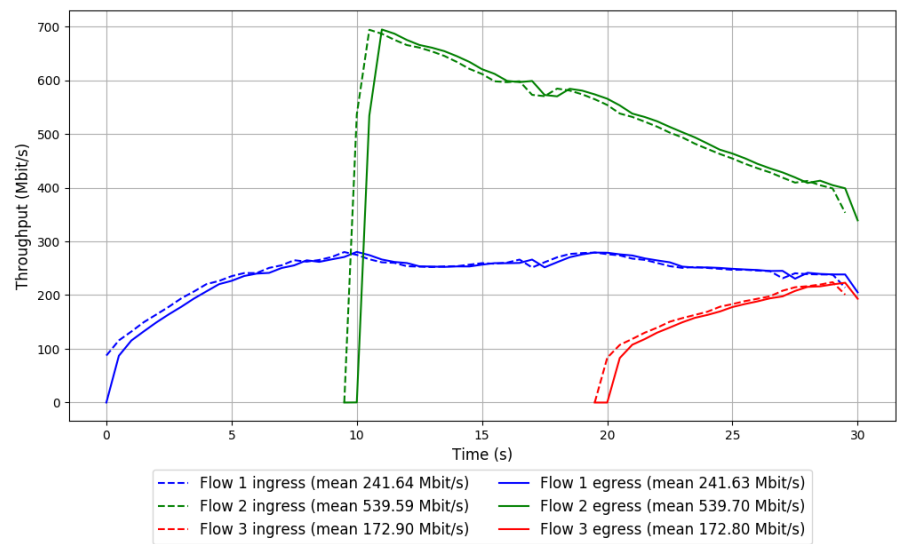
-- Flow 3:

Average throughput: 172.80 Mbit/s

95th percentile per-packet one-way delay: 1.734 ms

Loss rate: 0.26%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-07-25 09:16:05

End at: 2018-07-25 09:16:35

Local clock offset: 3.954 ms

Remote clock offset: 2.589 ms

Below is generated by plot.py at 2018-07-25 14:16:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 422.14 Mbit/s

95th percentile per-packet one-way delay: 1.557 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 81.94 Mbit/s

95th percentile per-packet one-way delay: 1.344 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 325.65 Mbit/s

95th percentile per-packet one-way delay: 1.559 ms

Loss rate: 0.12%

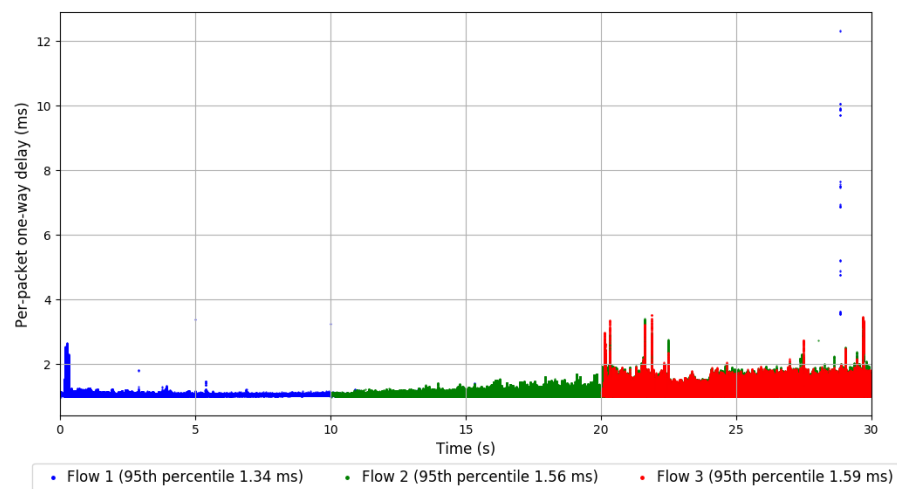
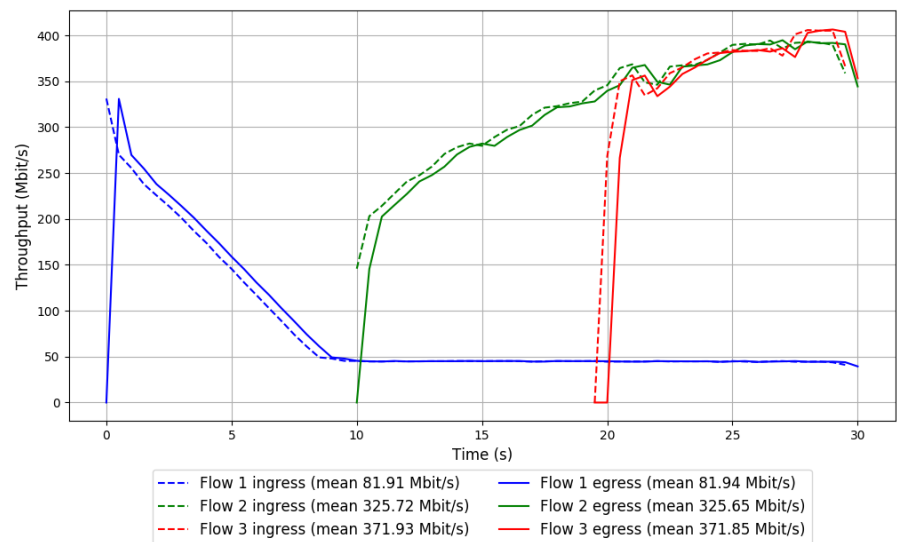
-- Flow 3:

Average throughput: 371.85 Mbit/s

95th percentile per-packet one-way delay: 1.593 ms

Loss rate: 0.20%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-07-25 09:42:58

End at: 2018-07-25 09:43:28

Local clock offset: 3.751 ms

Remote clock offset: 2.388 ms

Below is generated by plot.py at 2018-07-25 14:16:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 529.12 Mbit/s

95th percentile per-packet one-way delay: 1.486 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 196.33 Mbit/s

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

Loss rate: 0.02%

-- Flow 2:

Average throughput: 314.50 Mbit/s

95th percentile per-packet one-way delay: 1.493 ms

Loss rate: 0.11%

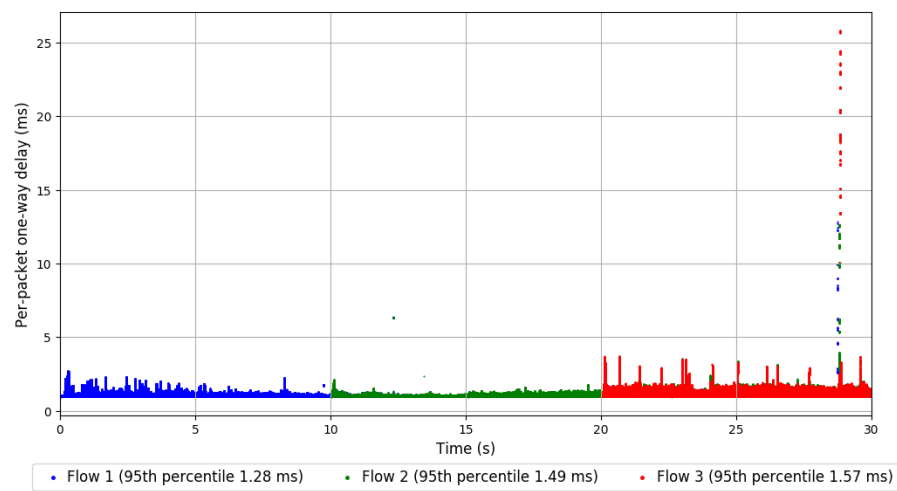
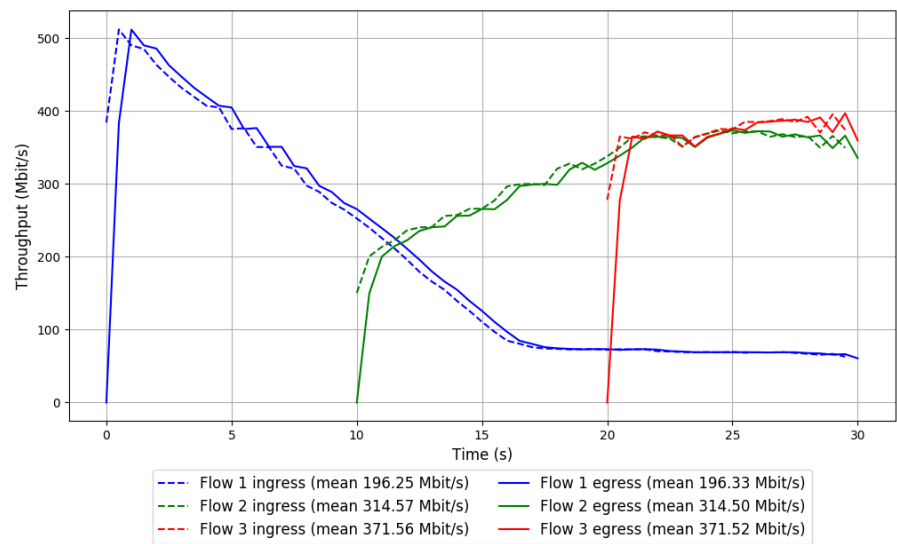
-- Flow 3:

Average throughput: 371.52 Mbit/s

95th percentile per-packet one-way delay: 1.569 ms

Loss rate: 0.20%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-07-25 10:09:49

End at: 2018-07-25 10:10:19

Local clock offset: 3.917 ms

Remote clock offset: 2.186 ms

Below is generated by plot.py at 2018-07-25 14:16:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 569.05 Mbit/s

95th percentile per-packet one-way delay: 1.535 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 181.35 Mbit/s

95th percentile per-packet one-way delay: 1.277 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 328.80 Mbit/s

95th percentile per-packet one-way delay: 1.511 ms

Loss rate: 0.10%

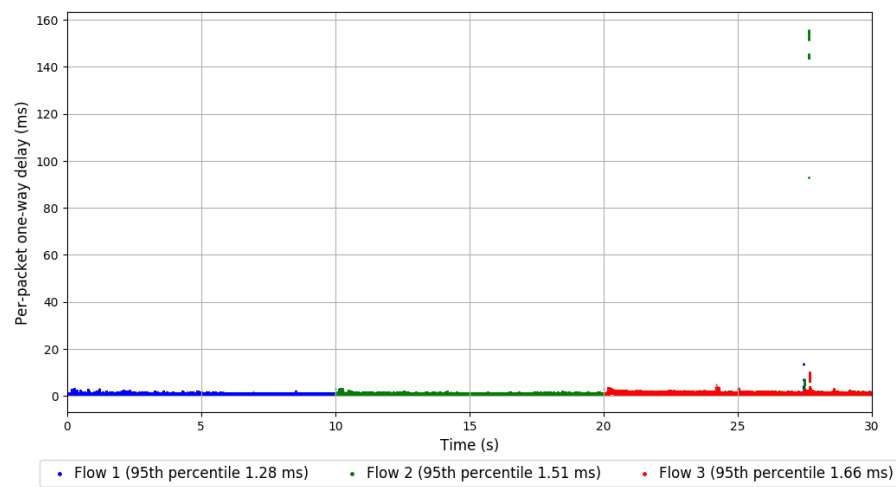
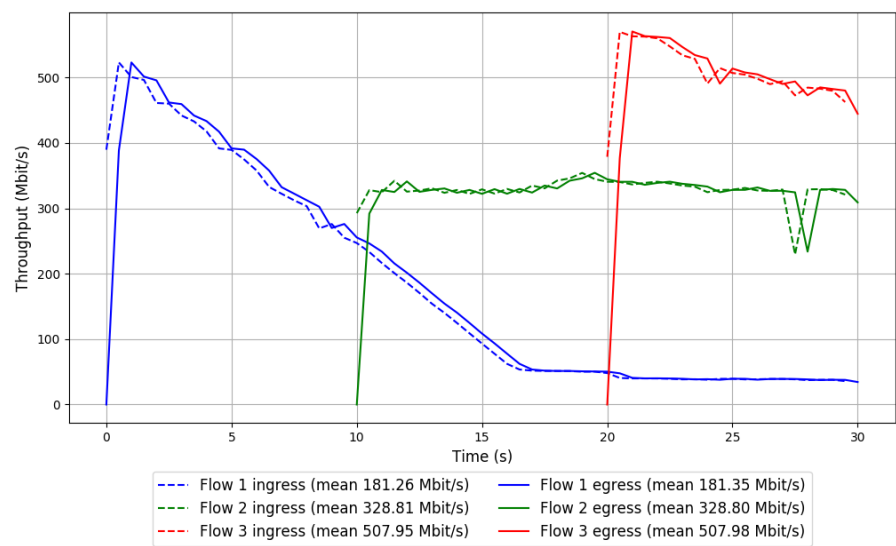
-- Flow 3:

Average throughput: 507.98 Mbit/s

95th percentile per-packet one-way delay: 1.657 ms

Loss rate: 0.19%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-07-25 10:36:40

End at: 2018-07-25 10:37:10

Local clock offset: 4.14 ms

Remote clock offset: 1.955 ms

Below is generated by plot.py at 2018-07-25 14:19:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 482.01 Mbit/s

95th percentile per-packet one-way delay: 1.360 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 201.67 Mbit/s

95th percentile per-packet one-way delay: 1.274 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 310.77 Mbit/s

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

Loss rate: 0.11%

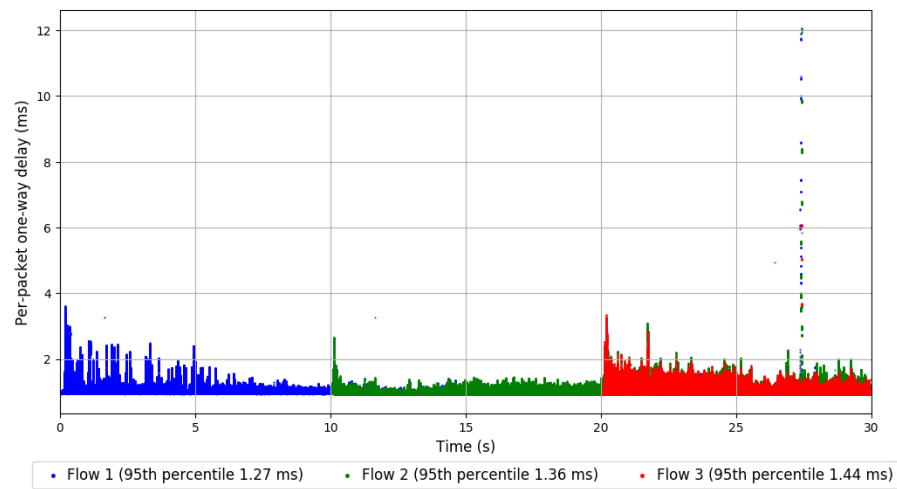
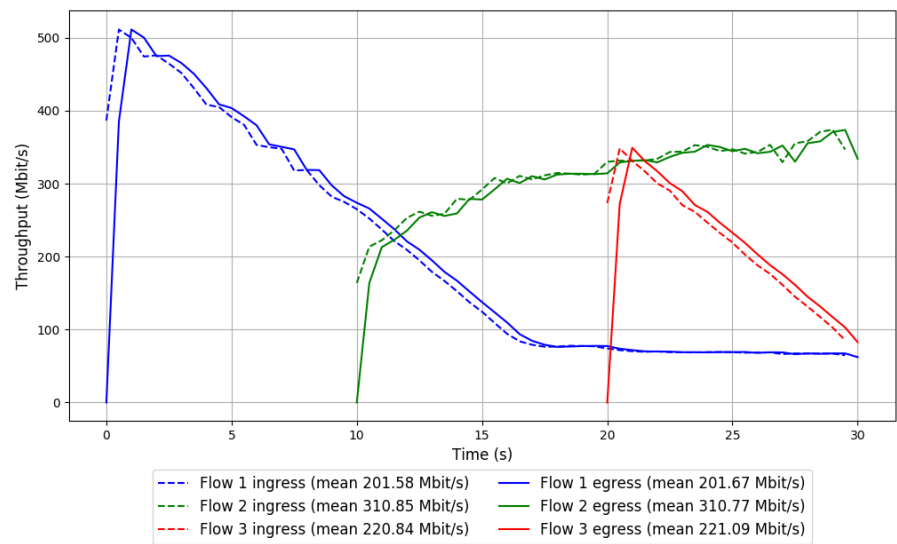
-- Flow 3:

Average throughput: 221.09 Mbit/s

95th percentile per-packet one-way delay: 1.441 ms

Loss rate: 0.07%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-07-25 11:03:28

End at: 2018-07-25 11:03:58

Local clock offset: 4.276 ms

Remote clock offset: 1.864 ms

Below is generated by plot.py at 2018-07-25 14:22:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 638.72 Mbit/s

95th percentile per-packet one-way delay: 2.193 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 307.22 Mbit/s

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

Loss rate: 0.05%

-- Flow 2:

Average throughput: 333.56 Mbit/s

95th percentile per-packet one-way delay: 2.519 ms

Loss rate: 0.09%

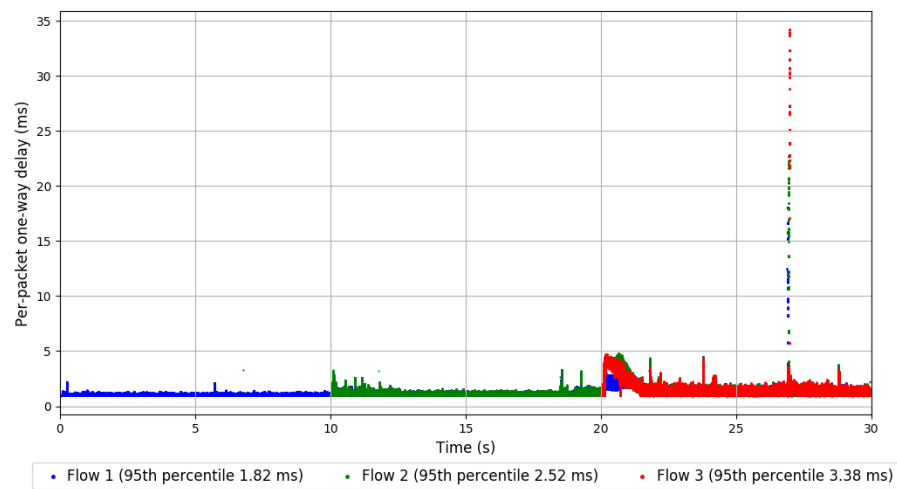
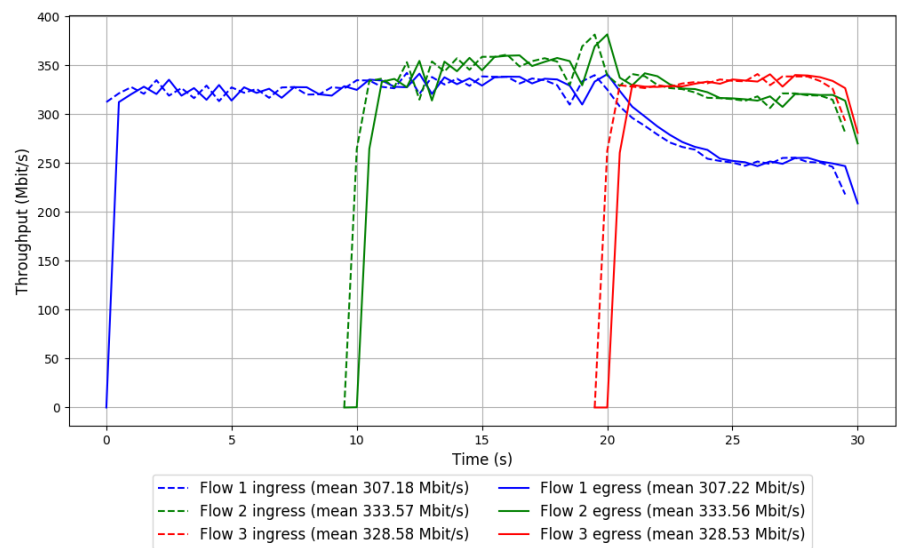
-- Flow 3:

Average throughput: 328.53 Mbit/s

95th percentile per-packet one-way delay: 3.384 ms

Loss rate: 0.19%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-07-25 11:30:26

End at: 2018-07-25 11:30:56

Local clock offset: 4.266 ms

Remote clock offset: 1.766 ms

Below is generated by plot.py at 2018-07-25 14:22:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 605.11 Mbit/s

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

Loss rate: 0.10%

-- Flow 1:

Average throughput: 308.68 Mbit/s

95th percentile per-packet one-way delay: 1.621 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 275.06 Mbit/s

95th percentile per-packet one-way delay: 1.703 ms

Loss rate: 0.10%

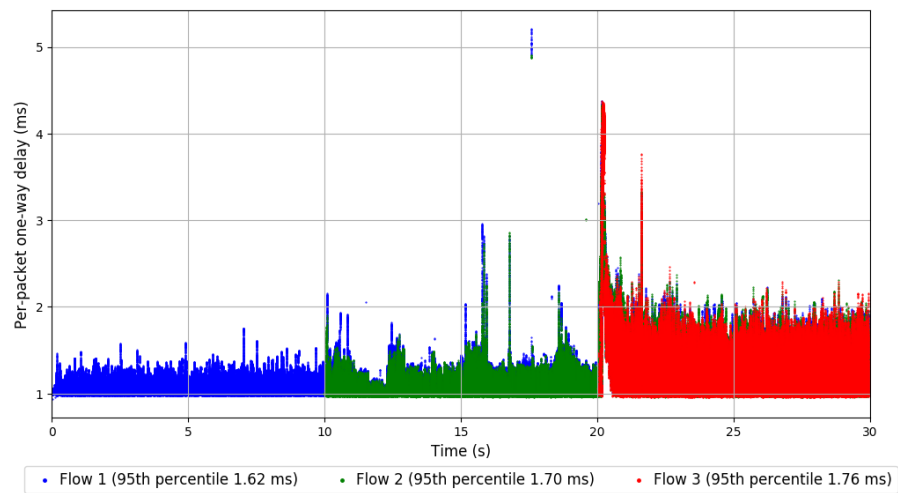
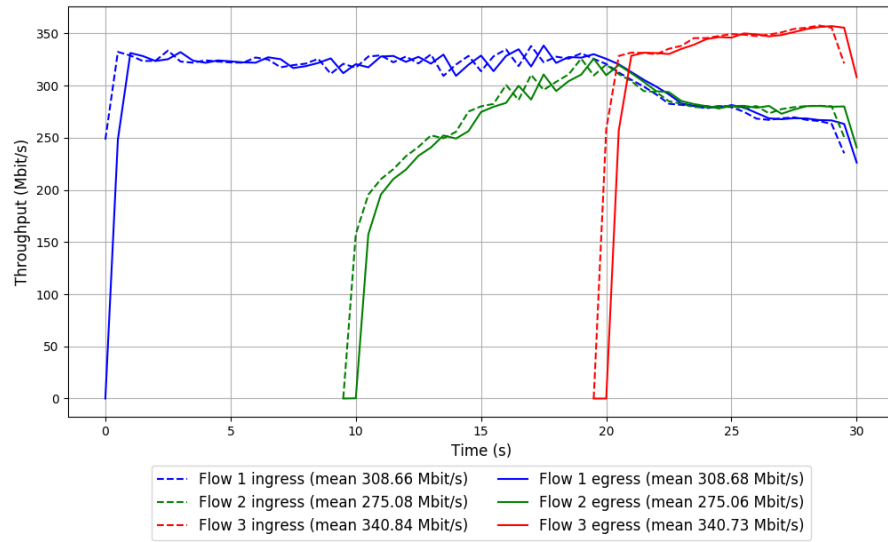
-- Flow 3:

Average throughput: 340.73 Mbit/s

95th percentile per-packet one-way delay: 1.762 ms

Loss rate: 0.21%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-07-25 11:57:20

End at: 2018-07-25 11:57:50

Local clock offset: 3.686 ms

Remote clock offset: 1.519 ms

Below is generated by plot.py at 2018-07-25 14:22:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 384.97 Mbit/s

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

Loss rate: 0.10%

-- Flow 1:

Average throughput: 179.11 Mbit/s

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

Loss rate: 0.05%

-- Flow 2:

Average throughput: 133.80 Mbit/s

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

Loss rate: 0.05%

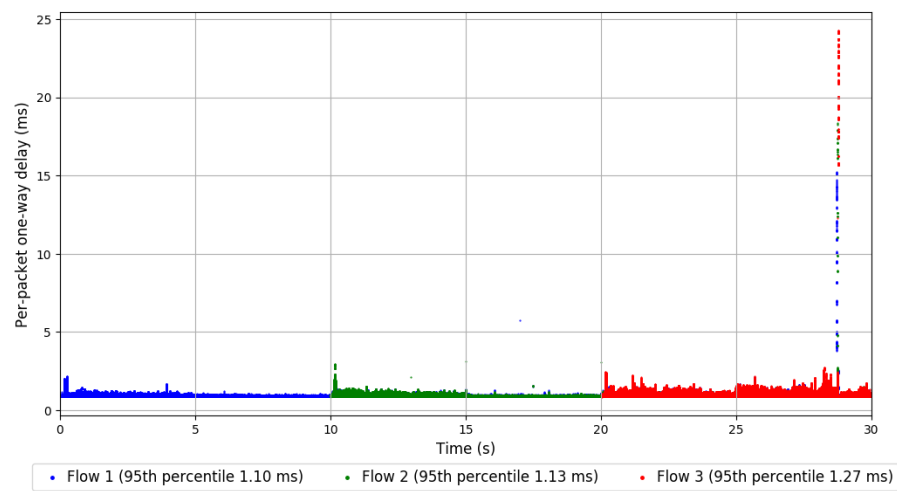
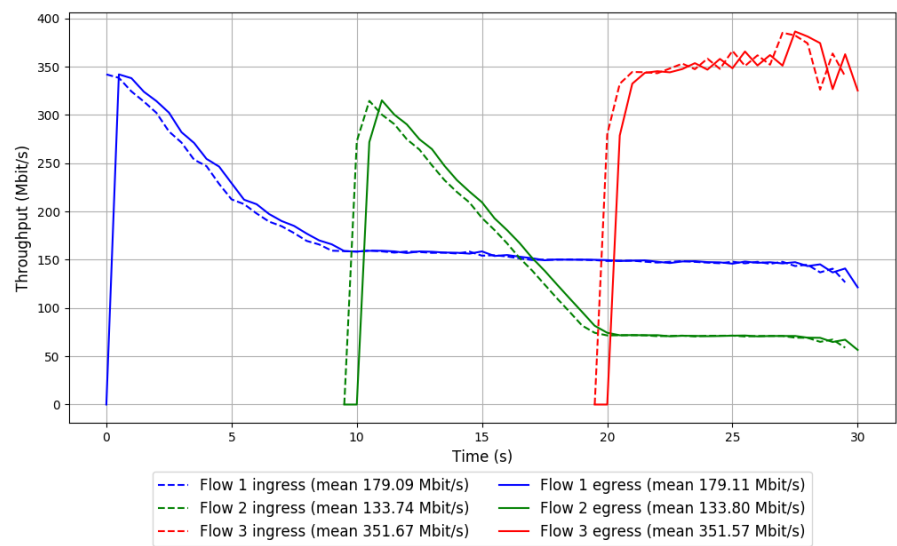
-- Flow 3:

Average throughput: 351.57 Mbit/s

95th percentile per-packet one-way delay: 1.270 ms

Loss rate: 0.23%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-07-25 07:42:55

End at: 2018-07-25 07:43:25

Local clock offset: 3.498 ms

Remote clock offset: 1.125 ms

Below is generated by plot.py at 2018-07-25 14:22:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 313.75 Mbit/s

95th percentile per-packet one-way delay: 5.914 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 186.24 Mbit/s

95th percentile per-packet one-way delay: 6.825 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 140.37 Mbit/s

95th percentile per-packet one-way delay: 2.258 ms

Loss rate: 0.10%

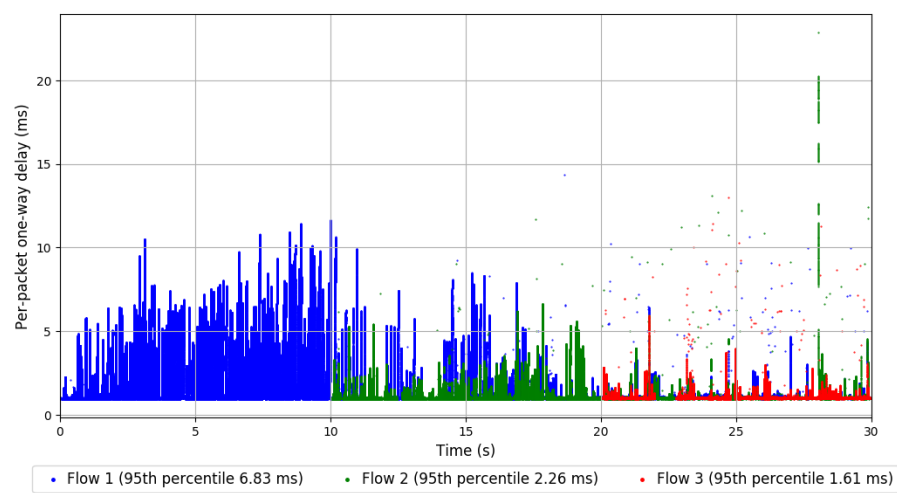
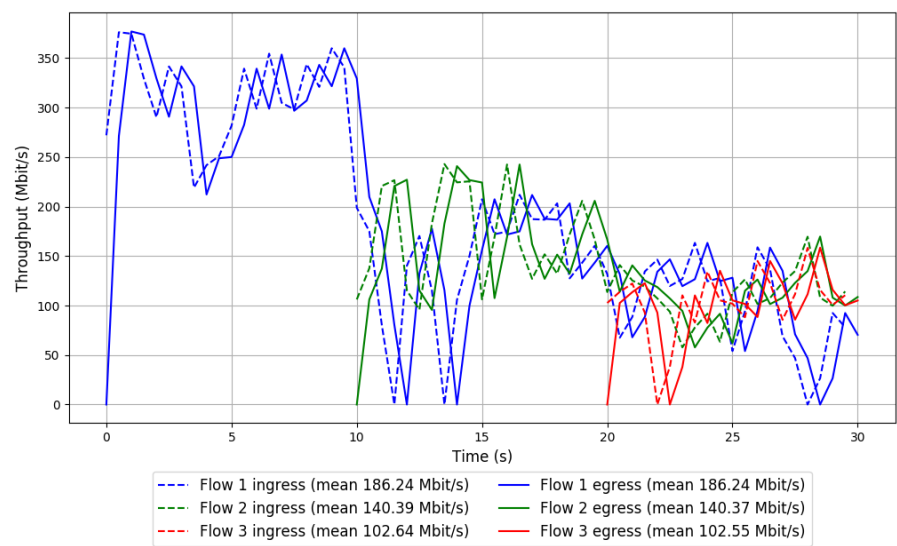
-- Flow 3:

Average throughput: 102.55 Mbit/s

95th percentile per-packet one-way delay: 1.613 ms

Loss rate: 0.28%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-07-25 08:09:47

End at: 2018-07-25 08:10:17

Local clock offset: 3.174 ms

Remote clock offset: 1.85 ms

Below is generated by plot.py at 2018-07-25 14:22:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 288.09 Mbit/s

95th percentile per-packet one-way delay: 3.229 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 169.41 Mbit/s

95th percentile per-packet one-way delay: 3.764 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 132.95 Mbit/s

95th percentile per-packet one-way delay: 2.091 ms

Loss rate: 0.08%

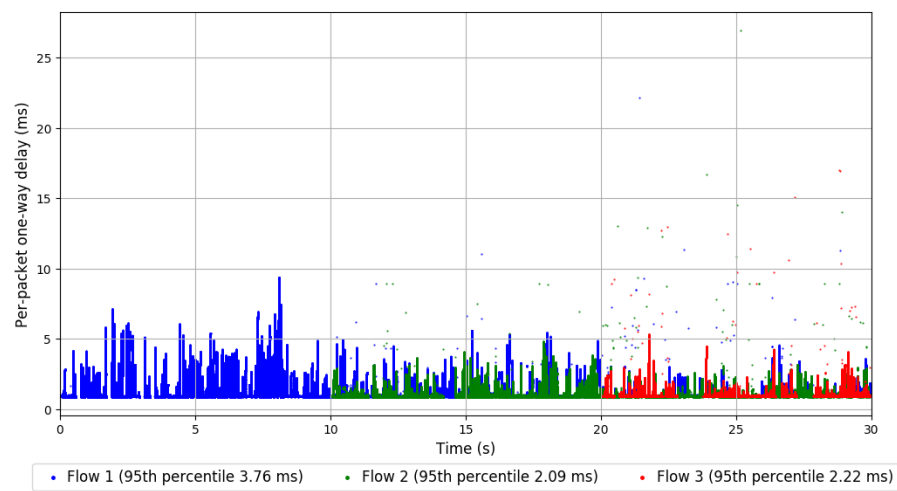
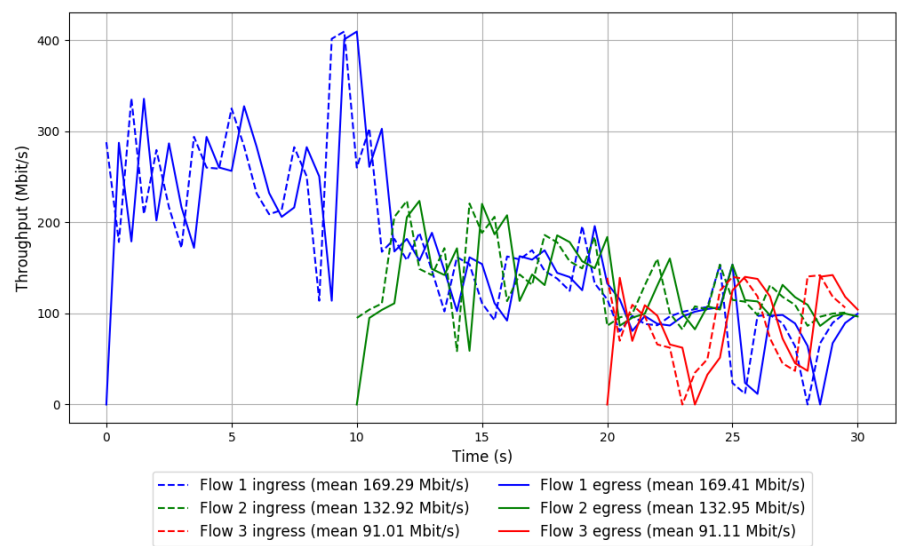
-- Flow 3:

Average throughput: 91.11 Mbit/s

95th percentile per-packet one-way delay: 2.218 ms

Loss rate: 0.13%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-07-25 08:36:39

End at: 2018-07-25 08:37:09

Local clock offset: 3.402 ms

Remote clock offset: 2.317 ms

Below is generated by plot.py at 2018-07-25 14:22:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 299.62 Mbit/s

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

Loss rate: 0.13%

-- Flow 1:

Average throughput: 174.78 Mbit/s

95th percentile per-packet one-way delay: 5.582 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 126.48 Mbit/s

95th percentile per-packet one-way delay: 1.835 ms

Loss rate: 0.06%

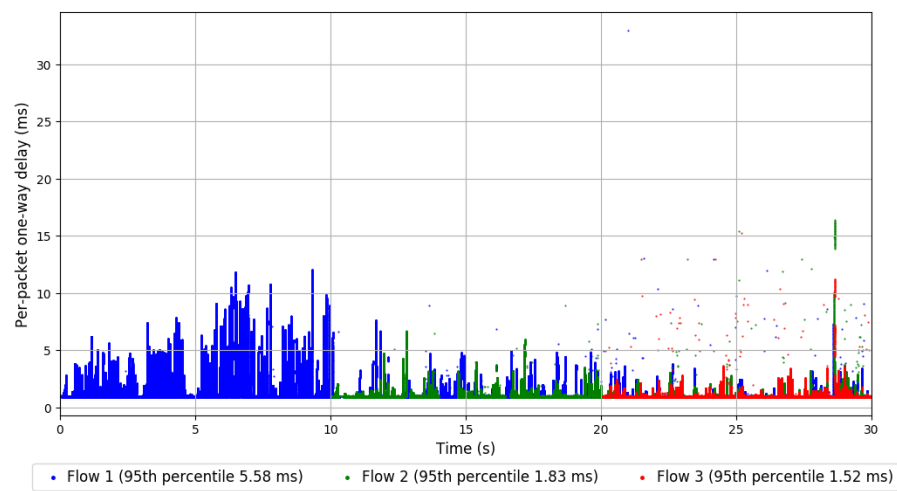
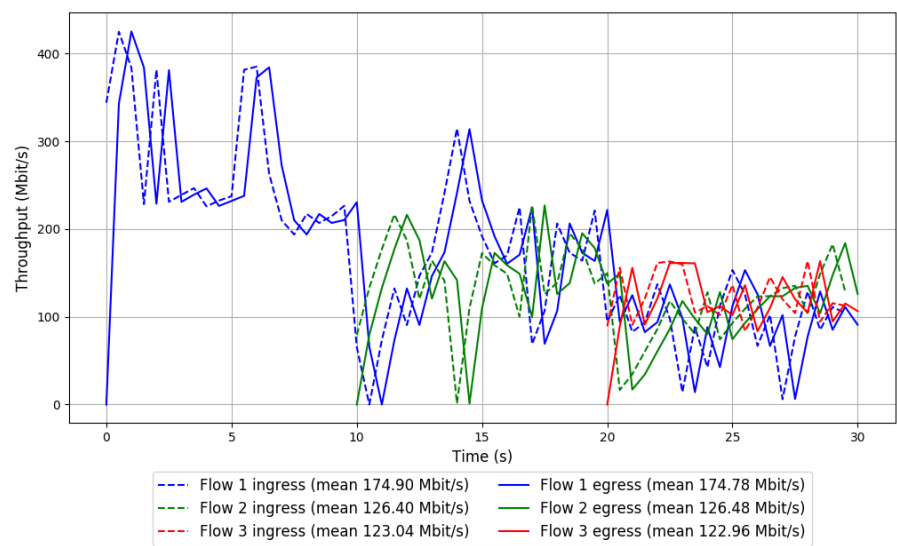
-- Flow 3:

Average throughput: 122.96 Mbit/s

95th percentile per-packet one-way delay: 1.525 ms

Loss rate: 0.27%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-07-25 09:03:40

End at: 2018-07-25 09:04:10

Local clock offset: 3.745 ms

Remote clock offset: 2.496 ms

Below is generated by plot.py at 2018-07-25 14:22:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 282.21 Mbit/s

95th percentile per-packet one-way delay: 2.605 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 169.43 Mbit/s

95th percentile per-packet one-way delay: 3.180 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 124.93 Mbit/s

95th percentile per-packet one-way delay: 1.487 ms

Loss rate: 0.05%

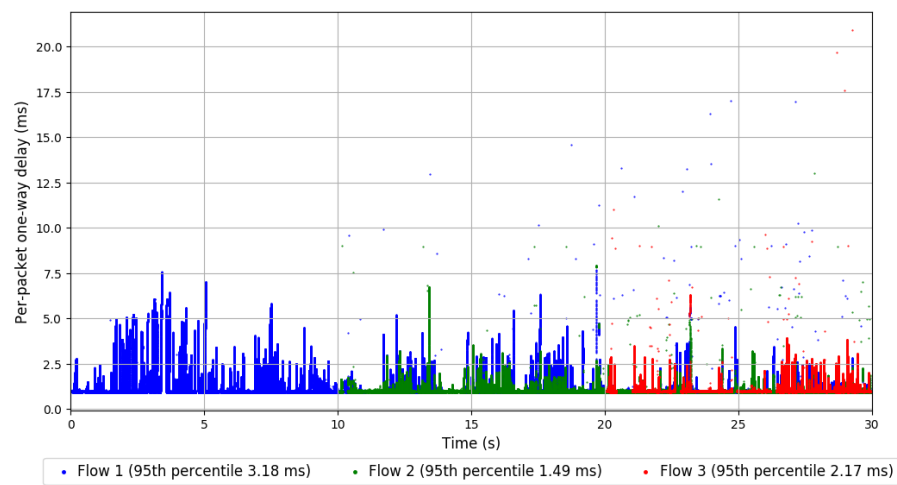
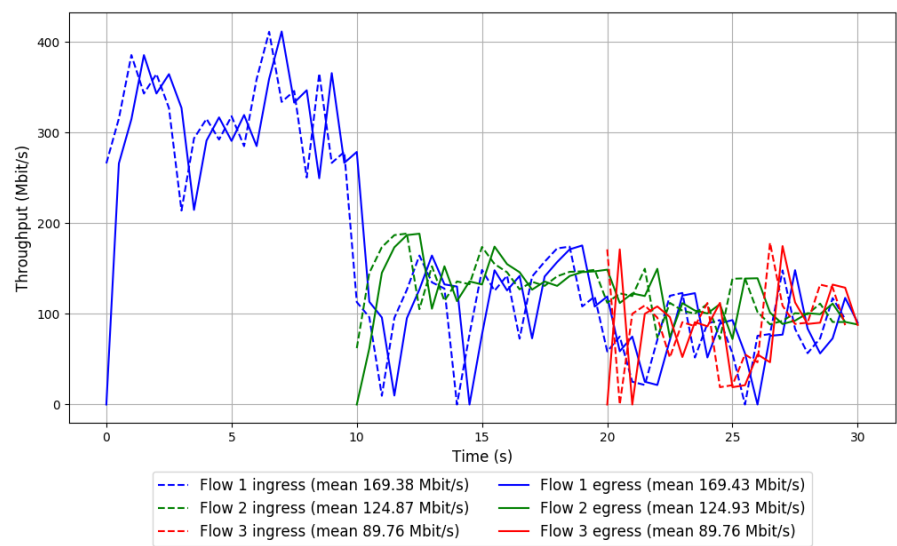
-- Flow 3:

Average throughput: 89.76 Mbit/s

95th percentile per-packet one-way delay: 2.167 ms

Loss rate: 0.00%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-07-25 09:30:32

End at: 2018-07-25 09:31:02

Local clock offset: 3.99 ms

Remote clock offset: 2.532 ms

Below is generated by plot.py at 2018-07-25 14:23:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 311.27 Mbit/s

95th percentile per-packet one-way delay: 4.970 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 186.86 Mbit/s

95th percentile per-packet one-way delay: 5.990 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 136.25 Mbit/s

95th percentile per-packet one-way delay: 1.894 ms

Loss rate: 0.04%

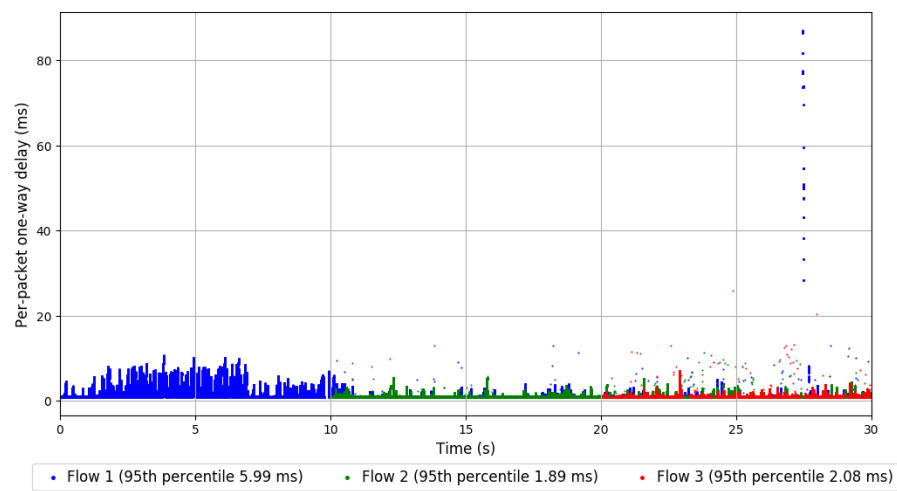
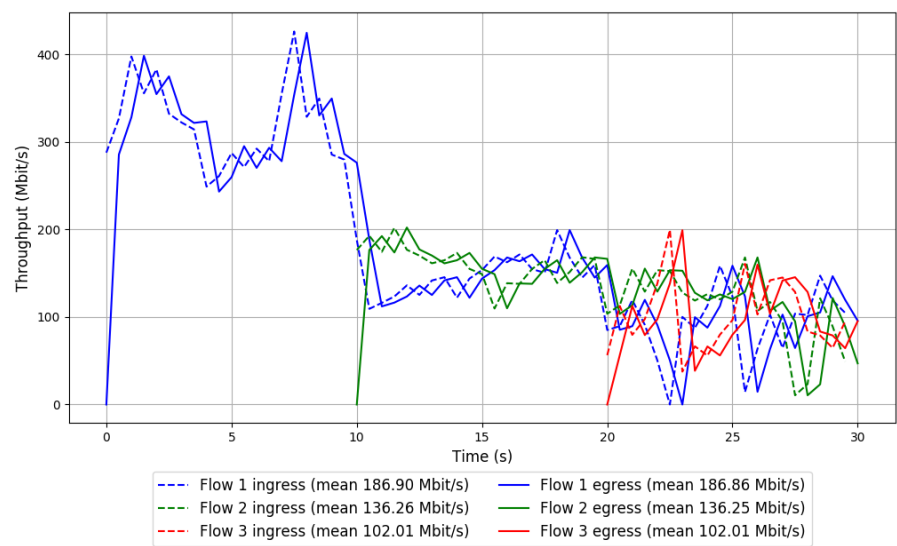
-- Flow 3:

Average throughput: 102.01 Mbit/s

95th percentile per-packet one-way delay: 2.085 ms

Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-07-25 09:57:25

End at: 2018-07-25 09:57:55

Local clock offset: 3.631 ms

Remote clock offset: 2.291 ms

Below is generated by plot.py at 2018-07-25 14:23:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 219.93 Mbit/s

95th percentile per-packet one-way delay: 5.320 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 118.39 Mbit/s

95th percentile per-packet one-way delay: 6.838 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 124.40 Mbit/s

95th percentile per-packet one-way delay: 1.349 ms

Loss rate: 0.00%

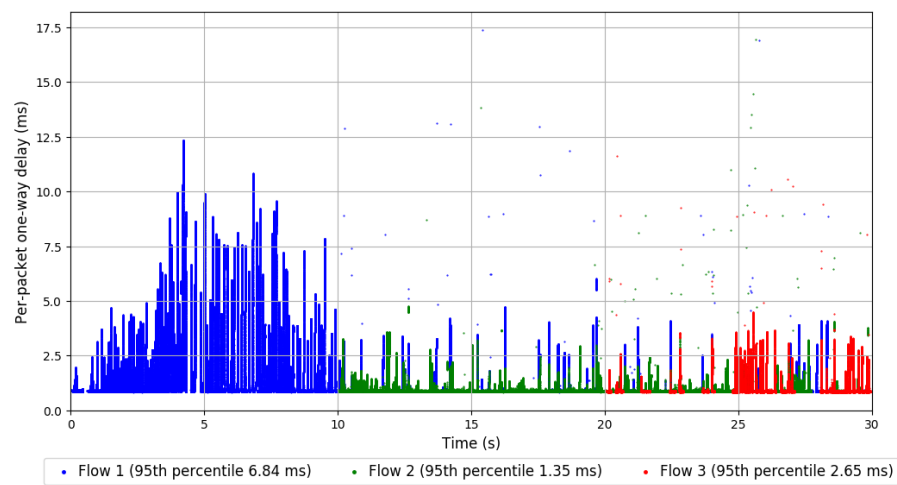
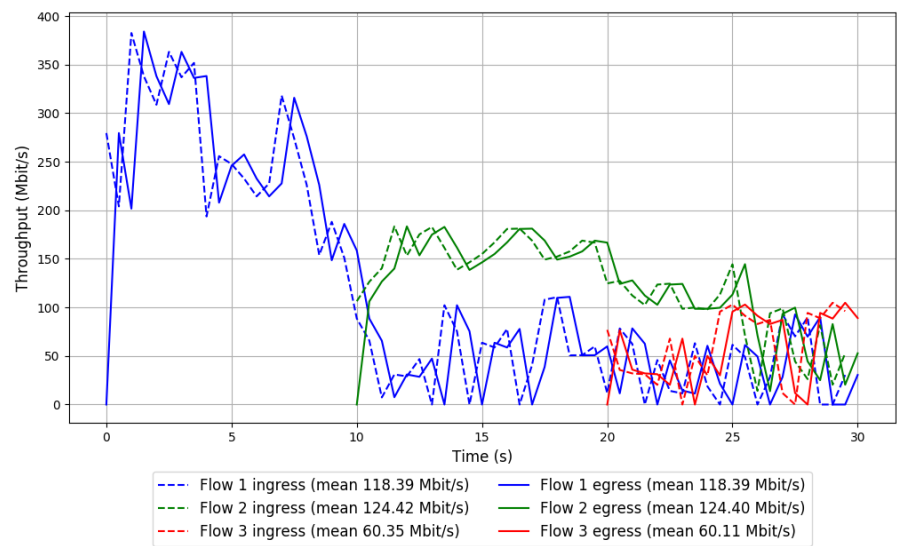
-- Flow 3:

Average throughput: 60.11 Mbit/s

95th percentile per-packet one-way delay: 2.651 ms

Loss rate: 0.63%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-07-25 10:24:17

End at: 2018-07-25 10:24:47

Local clock offset: 4.153 ms

Remote clock offset: 2.118 ms

Below is generated by plot.py at 2018-07-25 14:23:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 255.83 Mbit/s

95th percentile per-packet one-way delay: 5.030 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 144.49 Mbit/s

95th percentile per-packet one-way delay: 6.721 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 123.91 Mbit/s

95th percentile per-packet one-way delay: 2.197 ms

Loss rate: 0.14%

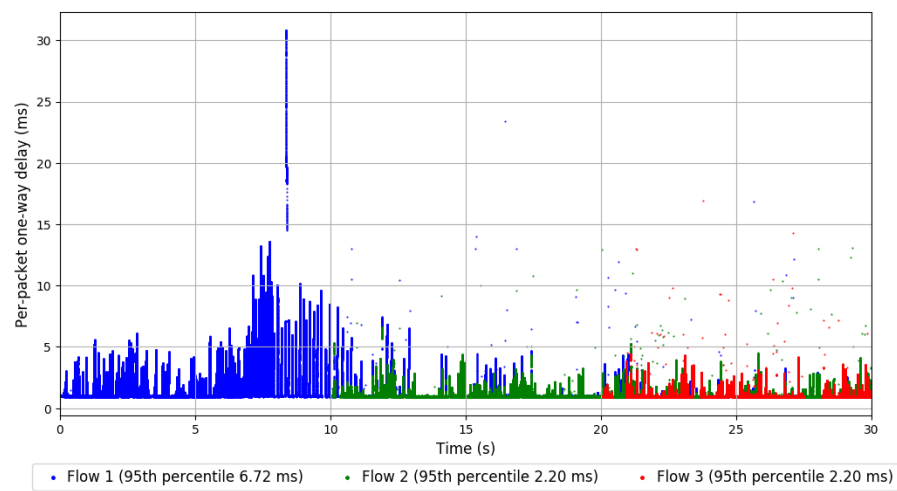
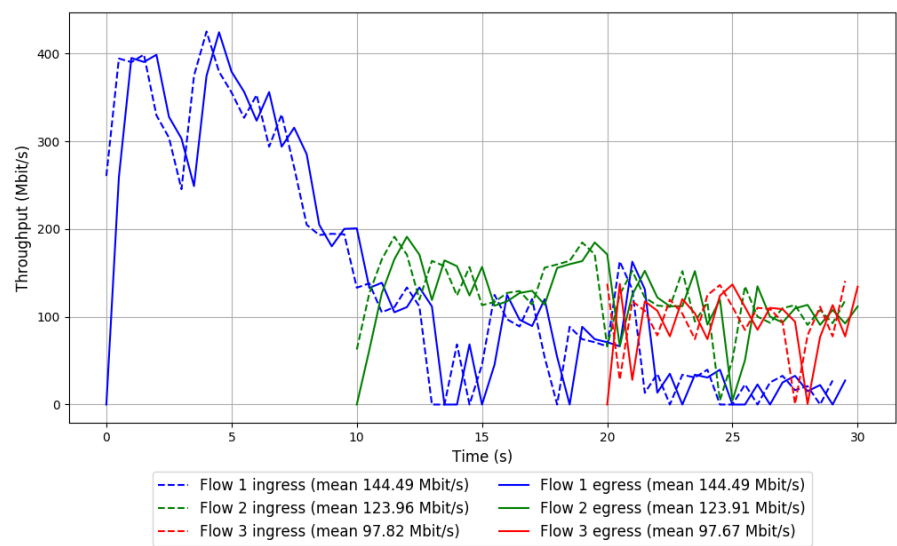
-- Flow 3:

Average throughput: 97.67 Mbit/s

95th percentile per-packet one-way delay: 2.200 ms

Loss rate: 0.34%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-07-25 10:51:07

End at: 2018-07-25 10:51:37

Local clock offset: 4.376 ms

Remote clock offset: 1.971 ms

Below is generated by plot.py at 2018-07-25 14:23:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 271.28 Mbit/s

95th percentile per-packet one-way delay: 2.947 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 140.41 Mbit/s

95th percentile per-packet one-way delay: 3.672 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 144.10 Mbit/s

95th percentile per-packet one-way delay: 1.922 ms

Loss rate: 0.06%

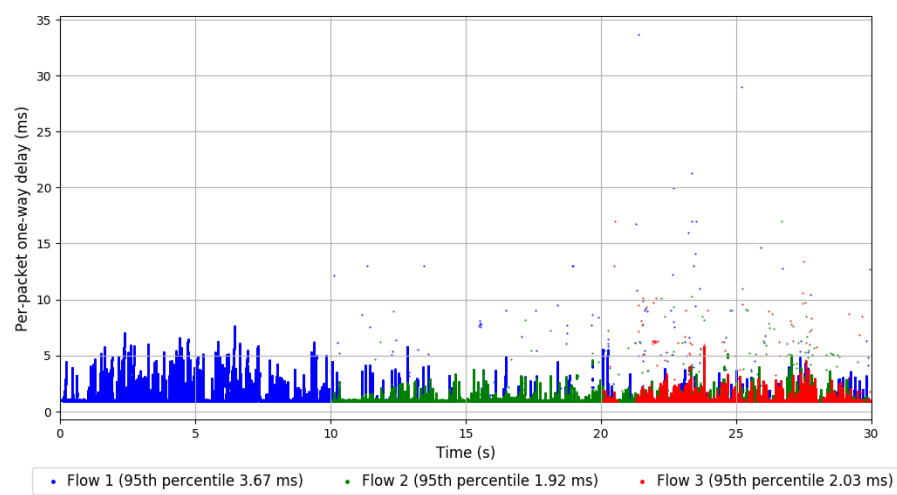
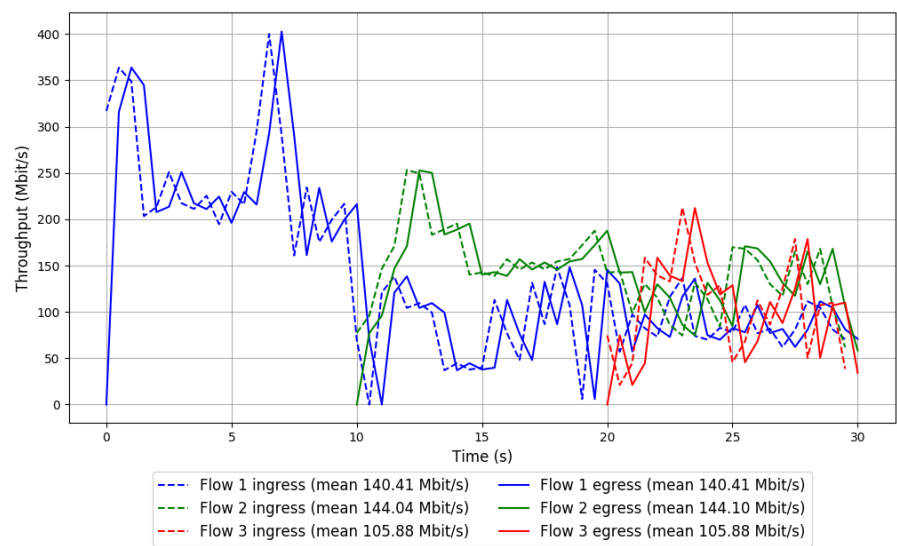
-- Flow 3:

Average throughput: 105.88 Mbit/s

95th percentile per-packet one-way delay: 2.027 ms

Loss rate: 0.20%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-07-25 11:18:00

End at: 2018-07-25 11:18:30

Local clock offset: 4.203 ms

Remote clock offset: 1.917 ms

Below is generated by plot.py at 2018-07-25 14:23:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 291.35 Mbit/s

95th percentile per-packet one-way delay: 4.571 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 177.51 Mbit/s

95th percentile per-packet one-way delay: 5.961 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 130.52 Mbit/s

95th percentile per-packet one-way delay: 2.159 ms

Loss rate: 0.10%

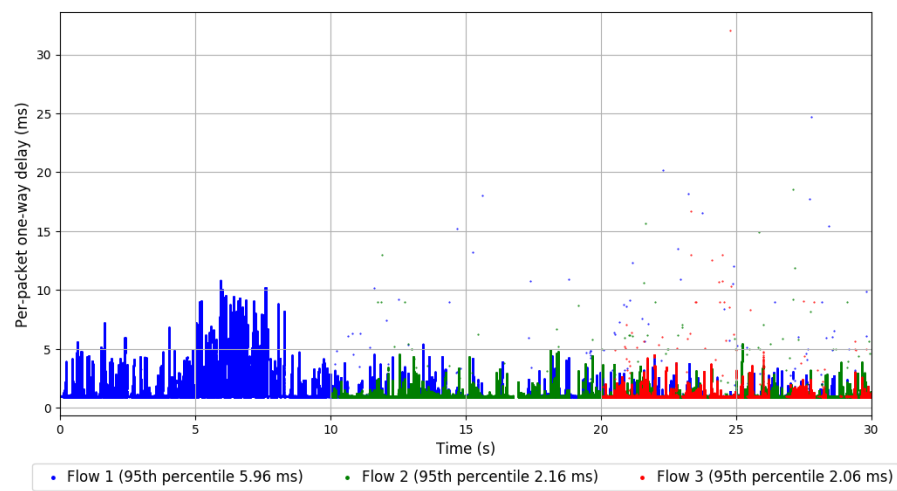
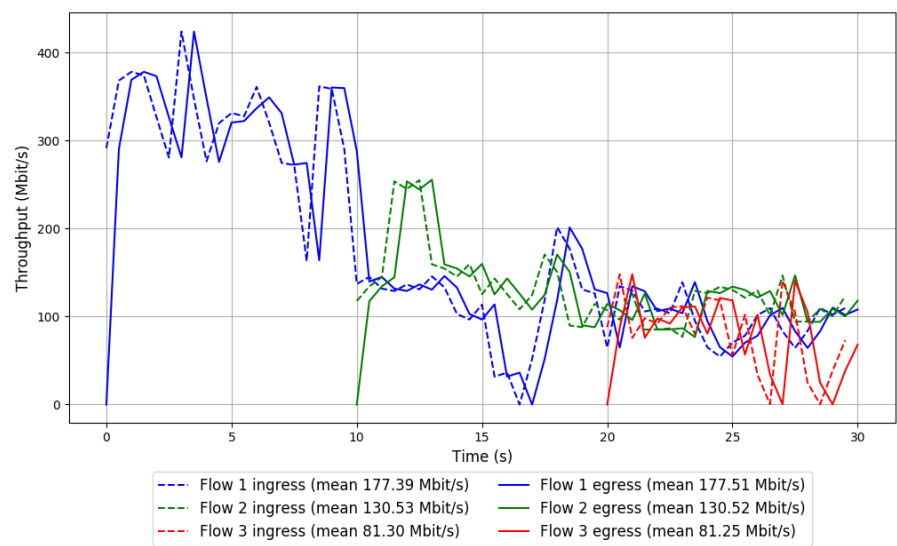
-- Flow 3:

Average throughput: 81.25 Mbit/s

95th percentile per-packet one-way delay: 2.057 ms

Loss rate: 0.31%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-07-25 11:44:53

End at: 2018-07-25 11:45:23

Local clock offset: 3.795 ms

Remote clock offset: 1.653 ms

Below is generated by plot.py at 2018-07-25 14:23:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 268.58 Mbit/s

95th percentile per-packet one-way delay: 2.773 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 160.03 Mbit/s

95th percentile per-packet one-way delay: 3.231 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 125.31 Mbit/s

95th percentile per-packet one-way delay: 1.901 ms

Loss rate: 0.08%

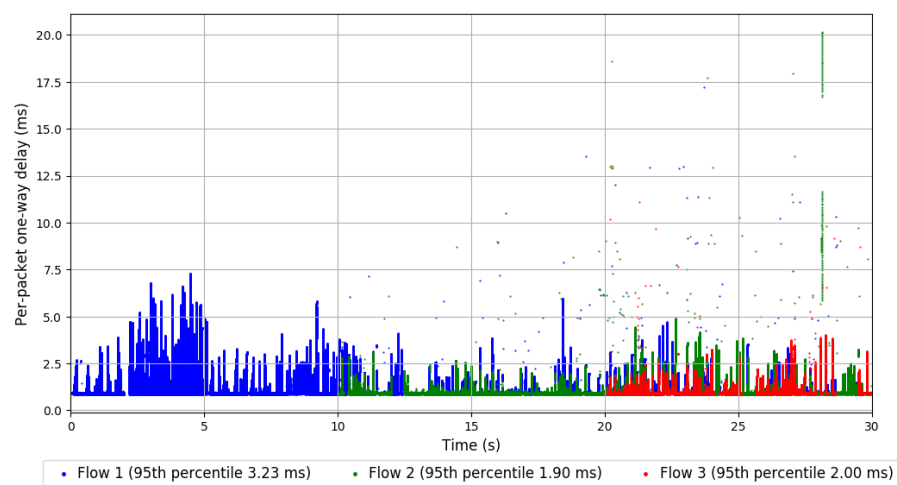
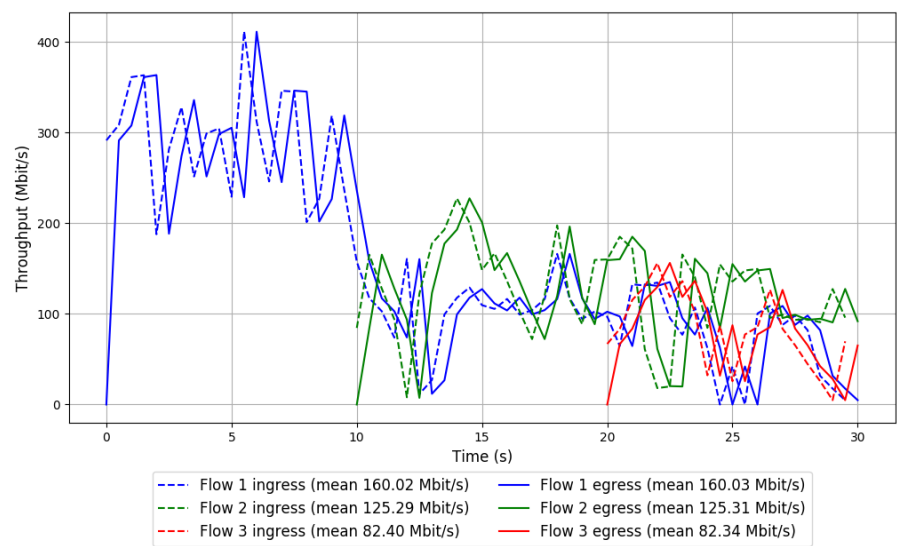
-- Flow 3:

Average throughput: 82.34 Mbit/s

95th percentile per-packet one-way delay: 1.995 ms

Loss rate: 0.28%

Run 10: Report of Verus — Data Link

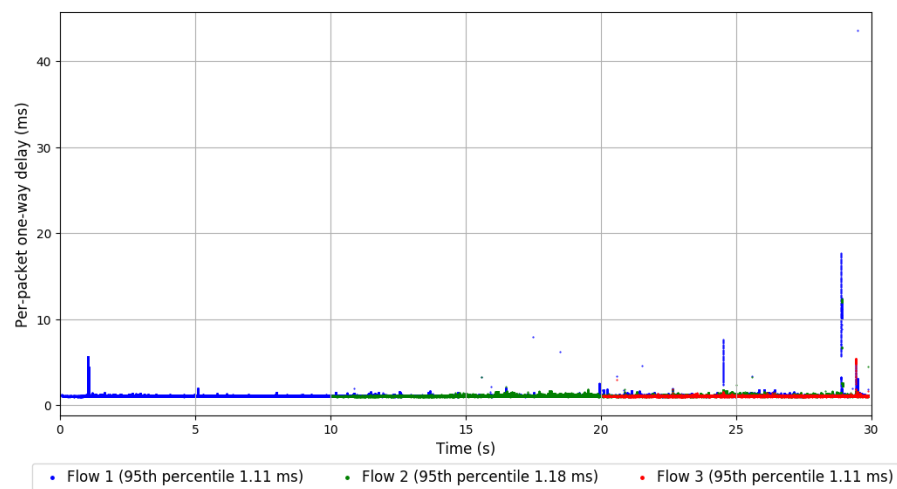
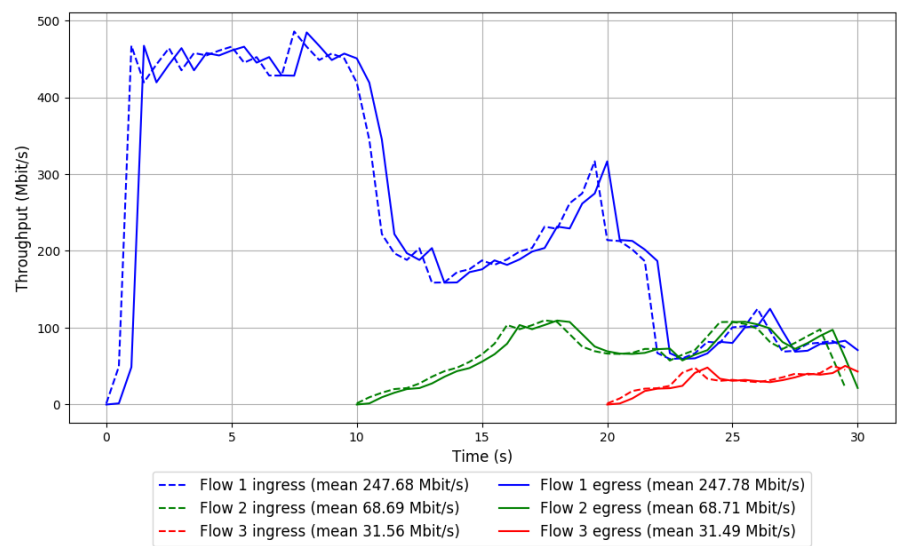


```
Run 1: Statistics of PCC-Vivace

Start at: 2018-07-25 07:44:27
End at: 2018-07-25 07:44:57
Local clock offset: 3.479 ms
Remote clock offset: 1.07 ms

# Below is generated by plot.py at 2018-07-25 14:25:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 303.80 Mbit/s
95th percentile per-packet one-way delay: 1.120 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 247.78 Mbit/s
95th percentile per-packet one-way delay: 1.115 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 68.71 Mbit/s
95th percentile per-packet one-way delay: 1.180 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 31.49 Mbit/s
95th percentile per-packet one-way delay: 1.111 ms
Loss rate: 0.38%
```

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-07-25 08:11:18

End at: 2018-07-25 08:11:48

Local clock offset: 3.146 ms

Remote clock offset: 1.767 ms

Below is generated by plot.py at 2018-07-25 14:25:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 298.22 Mbit/s

95th percentile per-packet one-way delay: 1.053 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 217.94 Mbit/s

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

Loss rate: 0.03%

-- Flow 2:

Average throughput: 97.56 Mbit/s

95th percentile per-packet one-way delay: 1.078 ms

Loss rate: 0.06%

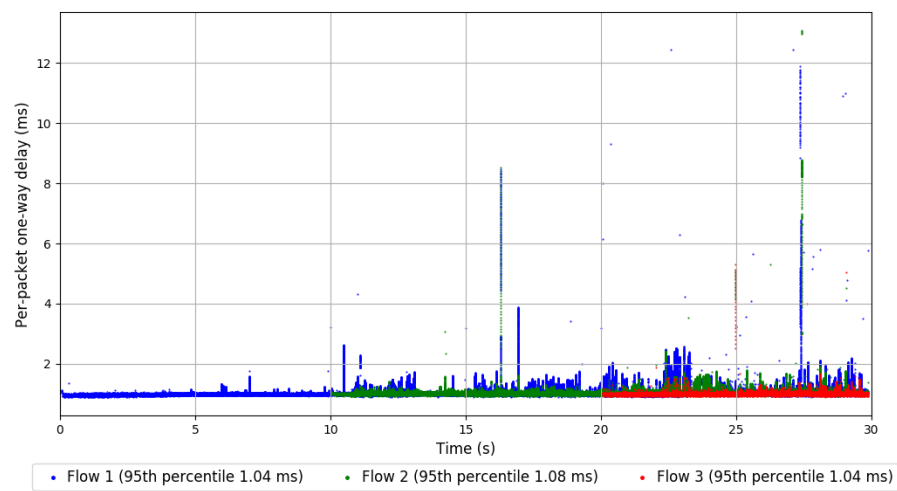
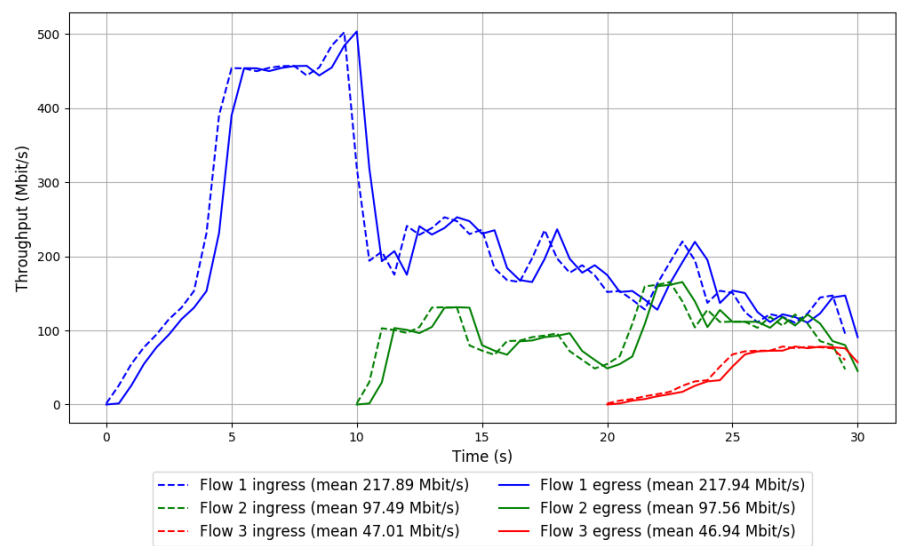
-- Flow 3:

Average throughput: 46.94 Mbit/s

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

Loss rate: 0.36%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-07-25 08:38:10

End at: 2018-07-25 08:38:40

Local clock offset: 3.452 ms

Remote clock offset: 2.224 ms

Below is generated by plot.py at 2018-07-25 14:25:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 302.55 Mbit/s

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

Loss rate: 0.05%

-- Flow 1:

Average throughput: 235.37 Mbit/s

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

Loss rate: 0.03%

-- Flow 2:

Average throughput: 66.67 Mbit/s

95th percentile per-packet one-way delay: 1.085 ms

Loss rate: 0.11%

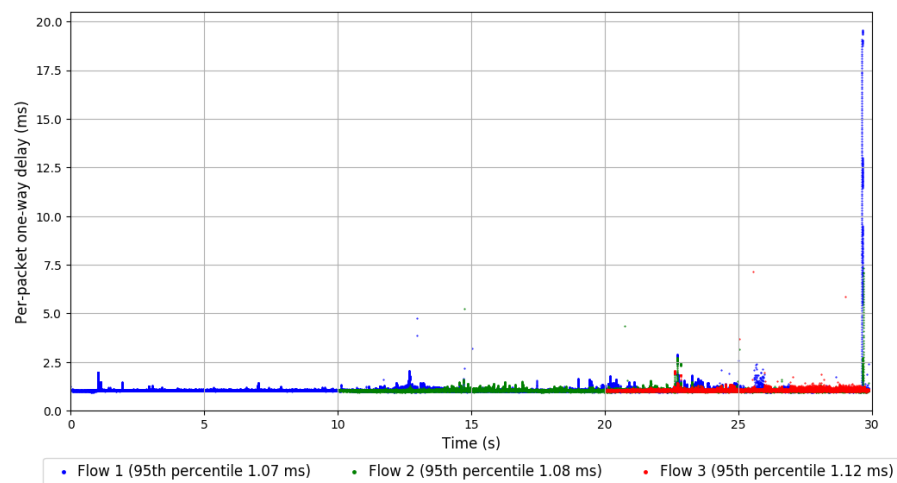
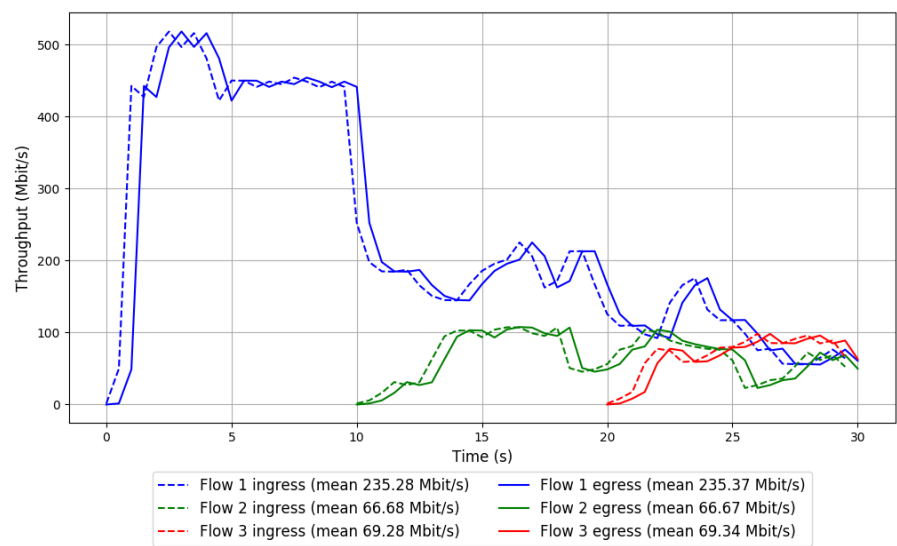
-- Flow 3:

Average throughput: 69.34 Mbit/s

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

Loss rate: 0.24%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-07-25 09:05:10

End at: 2018-07-25 09:05:40

Local clock offset: 3.772 ms

Remote clock offset: 2.454 ms

Below is generated by plot.py at 2018-07-25 14:26:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 315.53 Mbit/s

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

Loss rate: 0.04%

-- Flow 1:

Average throughput: 241.86 Mbit/s

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

Loss rate: 0.02%

-- Flow 2:

Average throughput: 85.12 Mbit/s

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

Loss rate: 0.07%

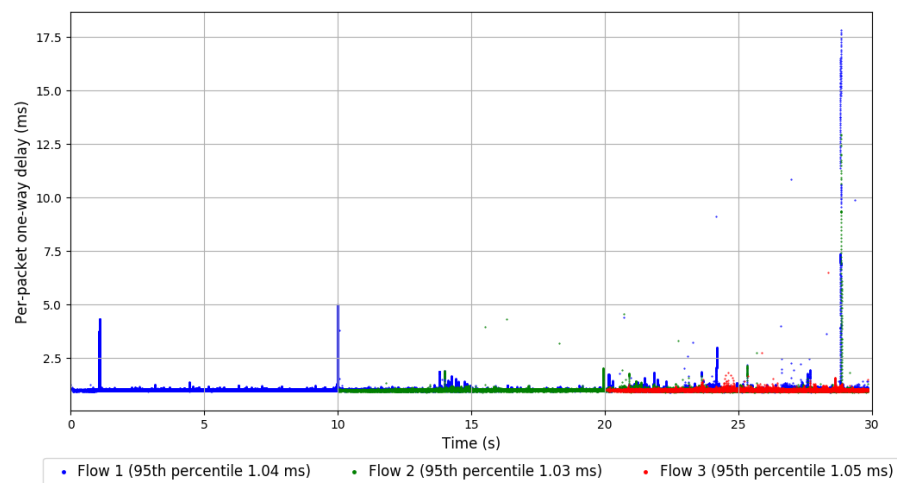
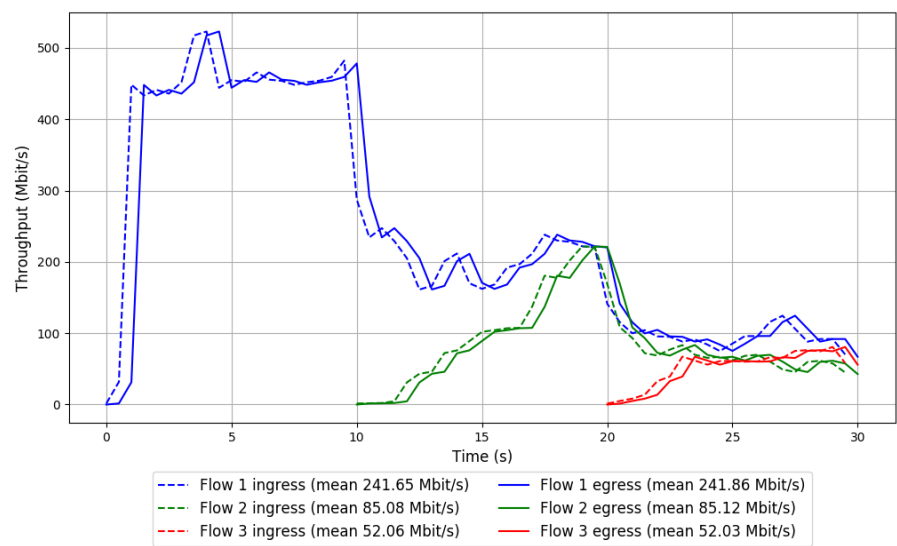
-- Flow 3:

Average throughput: 52.03 Mbit/s

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

Loss rate: 0.25%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-07-25 09:32:03

End at: 2018-07-25 09:32:33

Local clock offset: 3.901 ms

Remote clock offset: 2.433 ms

Below is generated by plot.py at 2018-07-25 14:26:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 311.79 Mbit/s

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

Loss rate: 0.06%

-- Flow 1:

Average throughput: 249.93 Mbit/s

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

Loss rate: 0.03%

-- Flow 2:

Average throughput: 65.79 Mbit/s

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

Loss rate: 0.14%

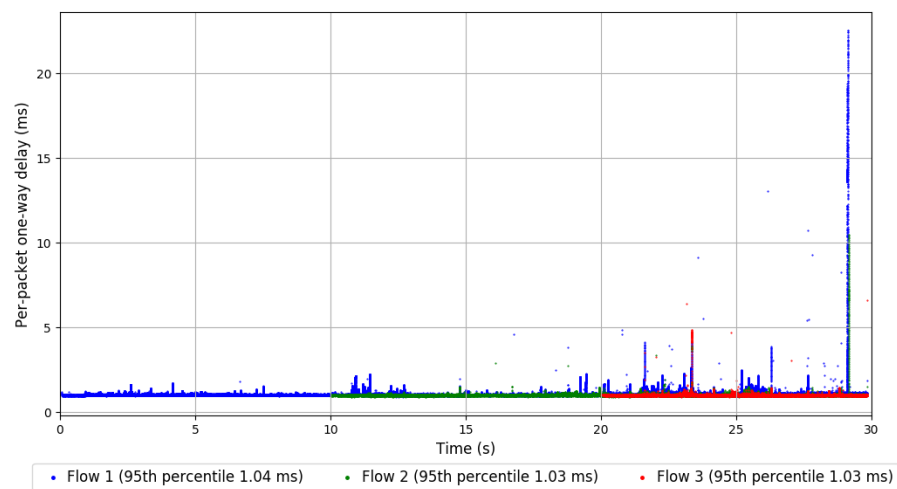
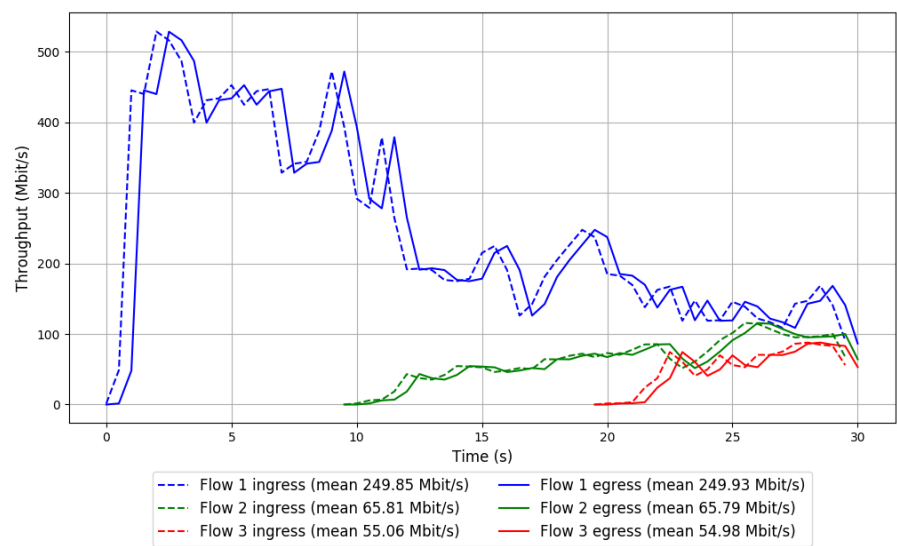
-- Flow 3:

Average throughput: 54.98 Mbit/s

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

Loss rate: 0.29%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-07-25 09:58:53

End at: 2018-07-25 09:59:23

Local clock offset: 3.723 ms

Remote clock offset: 2.18 ms

Below is generated by plot.py at 2018-07-25 14:26:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 318.71 Mbit/s

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

Loss rate: 0.04%

-- Flow 1:

Average throughput: 254.68 Mbit/s

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

Loss rate: 0.01%

-- Flow 2:

Average throughput: 78.46 Mbit/s

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

Loss rate: 0.07%

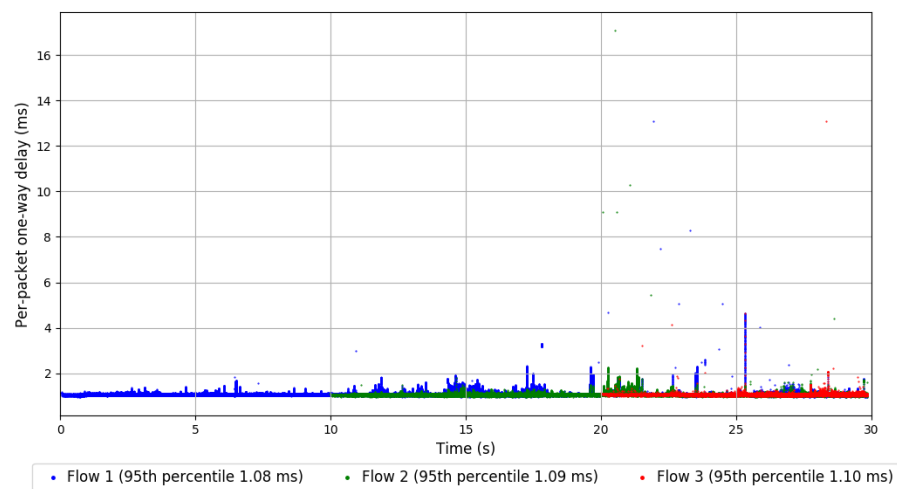
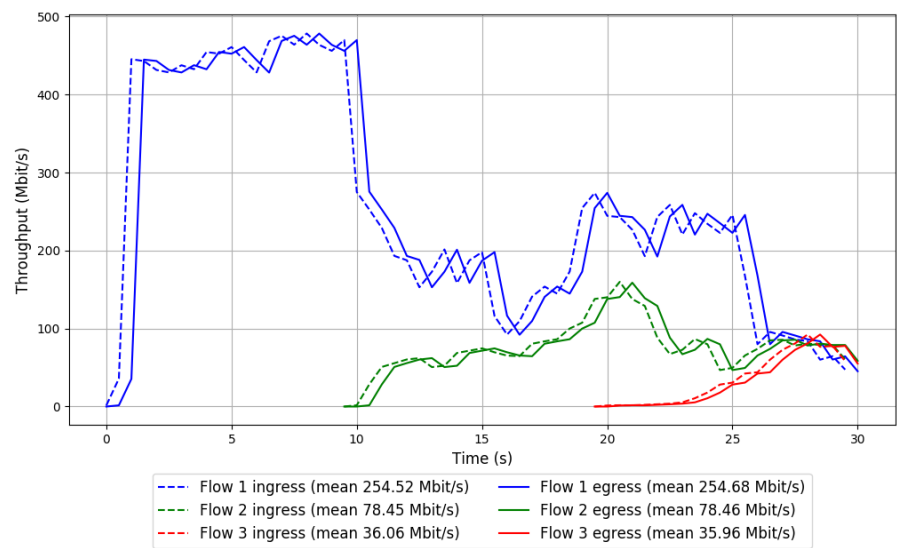
-- Flow 3:

Average throughput: 35.96 Mbit/s

95th percentile per-packet one-way delay: 1.102 ms

Loss rate: 0.47%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-07-25 10:25:47

End at: 2018-07-25 10:26:17

Local clock offset: 4.064 ms

Remote clock offset: 2.021 ms

Below is generated by plot.py at 2018-07-25 14:26:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 295.40 Mbit/s

95th percentile per-packet one-way delay: 0.982 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 207.94 Mbit/s

95th percentile per-packet one-way delay: 0.971 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 79.79 Mbit/s

95th percentile per-packet one-way delay: 0.983 ms

Loss rate: 0.08%

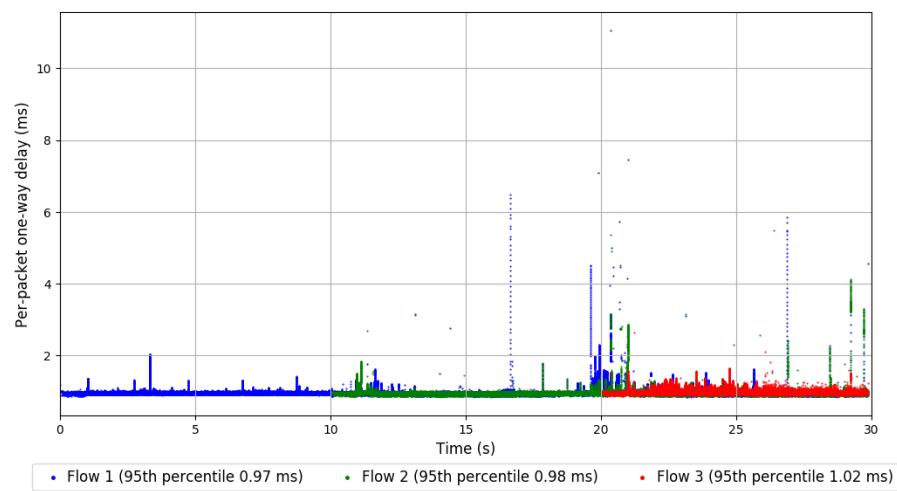
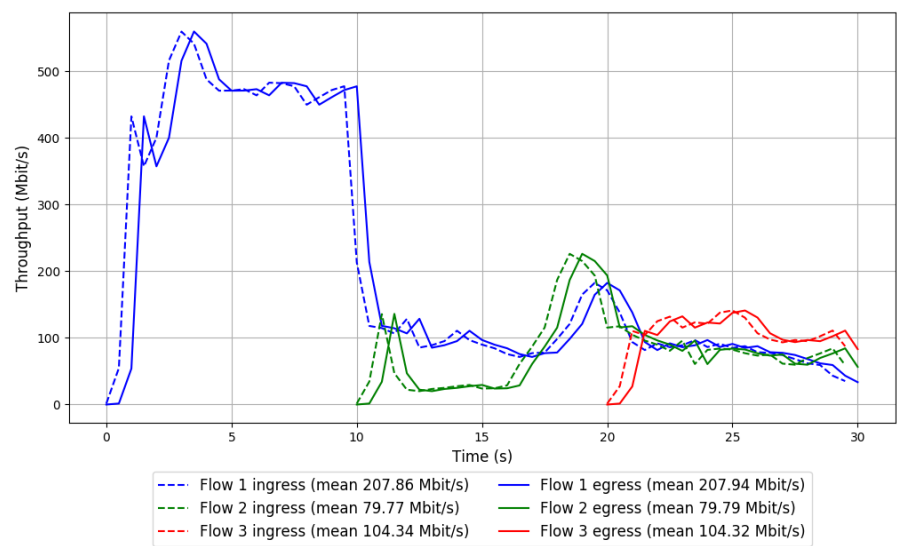
-- Flow 3:

Average throughput: 104.32 Mbit/s

95th percentile per-packet one-way delay: 1.024 ms

Loss rate: 0.22%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-07-25 10:52:37

End at: 2018-07-25 10:53:07

Local clock offset: 4.401 ms

Remote clock offset: 1.885 ms

Below is generated by plot.py at 2018-07-25 14:26:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 310.60 Mbit/s

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

Loss rate: 0.08%

-- Flow 1:

Average throughput: 221.74 Mbit/s

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

Loss rate: 0.02%

-- Flow 2:

Average throughput: 106.91 Mbit/s

95th percentile per-packet one-way delay: 1.100 ms

Loss rate: 0.13%

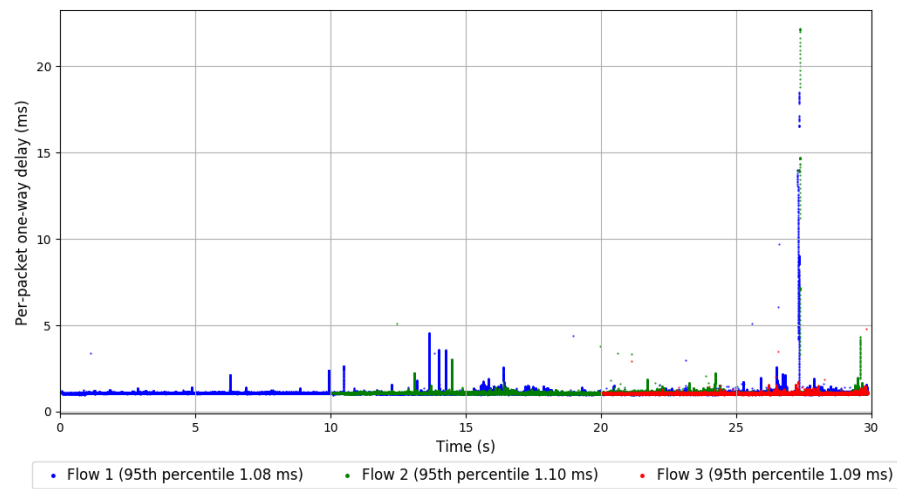
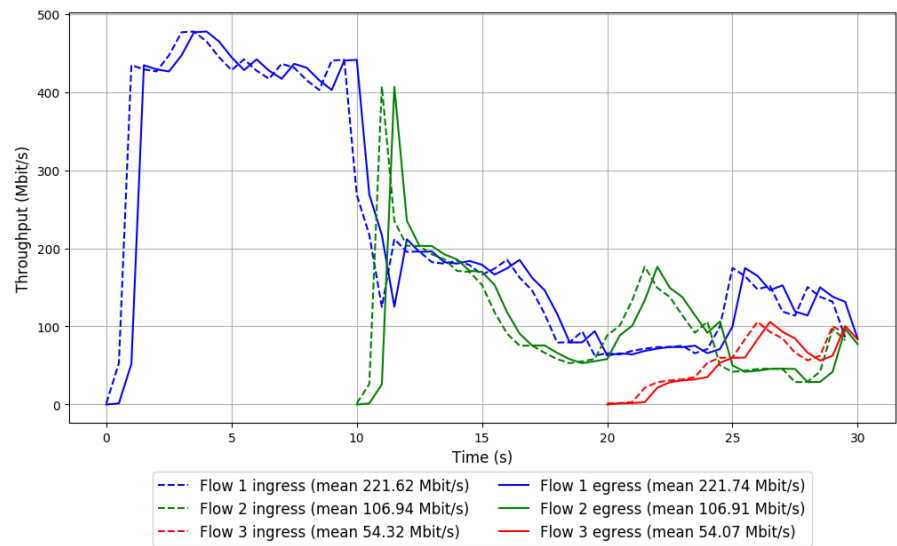
-- Flow 3:

Average throughput: 54.07 Mbit/s

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

Loss rate: 0.66%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-07-25 11:19:31

End at: 2018-07-25 11:20:01

Local clock offset: 4.208 ms

Remote clock offset: 1.793 ms

Below is generated by plot.py at 2018-07-25 14:27:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 335.50 Mbit/s

95th percentile per-packet one-way delay: 1.109 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 247.83 Mbit/s

95th percentile per-packet one-way delay: 1.100 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 86.25 Mbit/s

95th percentile per-packet one-way delay: 1.130 ms

Loss rate: 0.07%

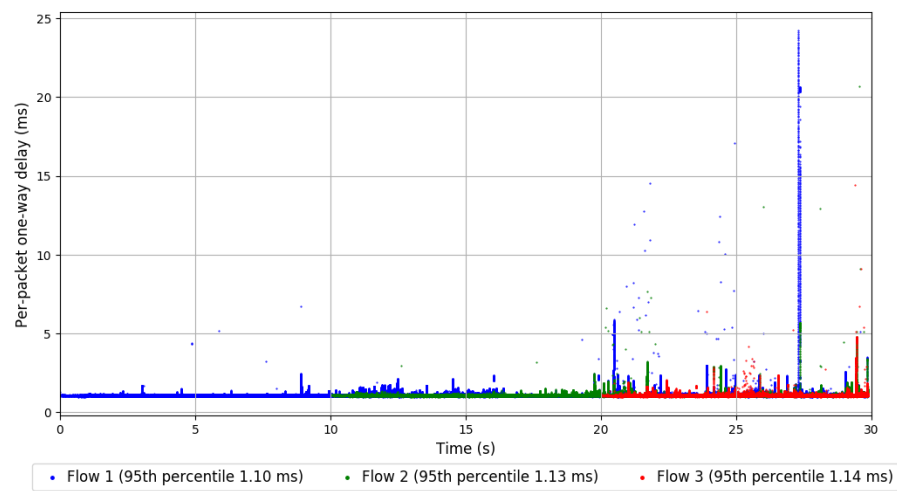
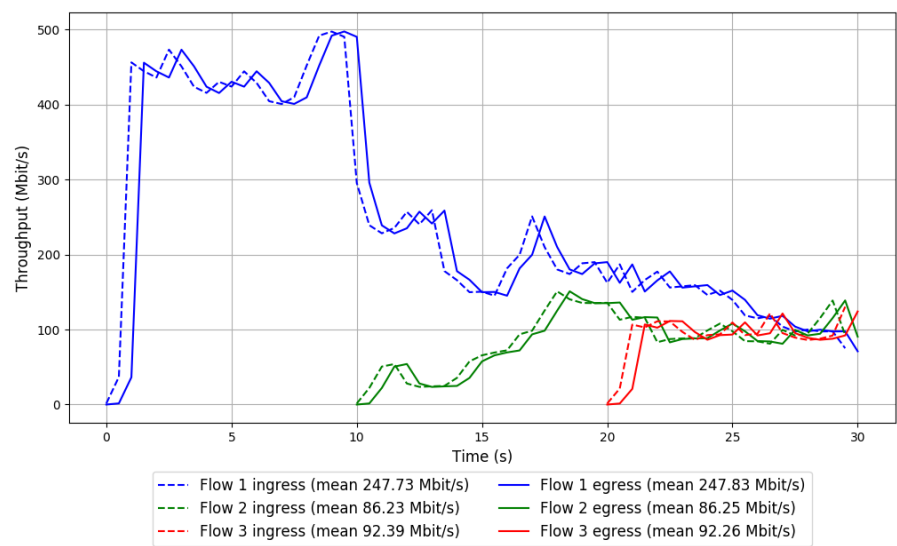
-- Flow 3:

Average throughput: 92.26 Mbit/s

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

Loss rate: 0.34%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-07-25 11:46:23

End at: 2018-07-25 11:46:53

Local clock offset: 3.874 ms

Remote clock offset: 1.564 ms

Below is generated by plot.py at 2018-07-25 14:27:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 321.18 Mbit/s

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

Loss rate: 0.05%

-- Flow 1:

Average throughput: 247.56 Mbit/s

95th percentile per-packet one-way delay: 1.087 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 83.43 Mbit/s

95th percentile per-packet one-way delay: 1.103 ms

Loss rate: 0.10%

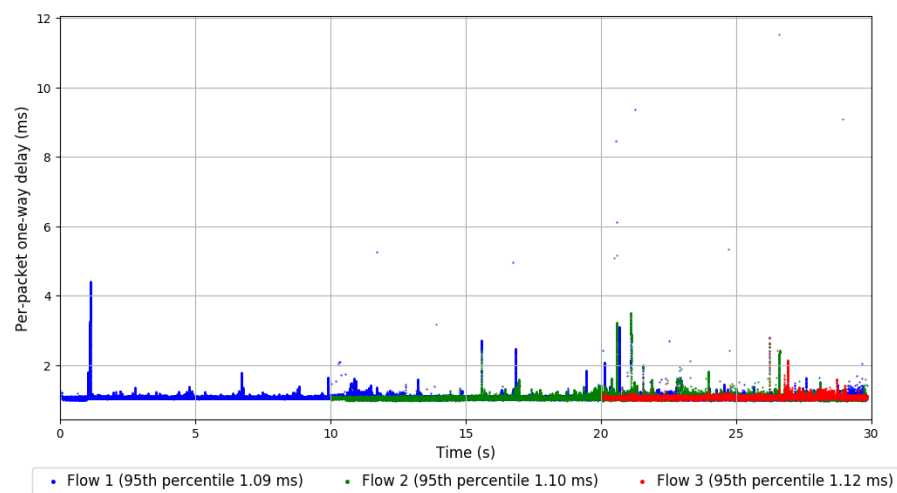
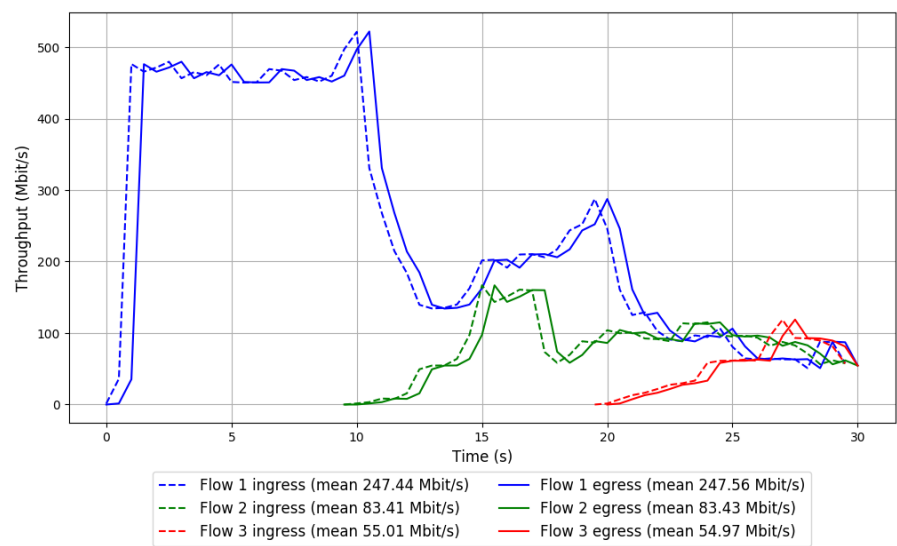
-- Flow 3:

Average throughput: 54.97 Mbit/s

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

Loss rate: 0.29%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-07-25 07:34:40

End at: 2018-07-25 07:35:10

Local clock offset: 3.464 ms

Remote clock offset: 0.881 ms

Below is generated by plot.py at 2018-07-25 14:27:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.19 Mbit/s

95th percentile per-packet one-way delay: 1.000 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 1.68 Mbit/s

95th percentile per-packet one-way delay: 0.998 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 1.08 Mbit/s

95th percentile per-packet one-way delay: 1.000 ms

Loss rate: 0.00%

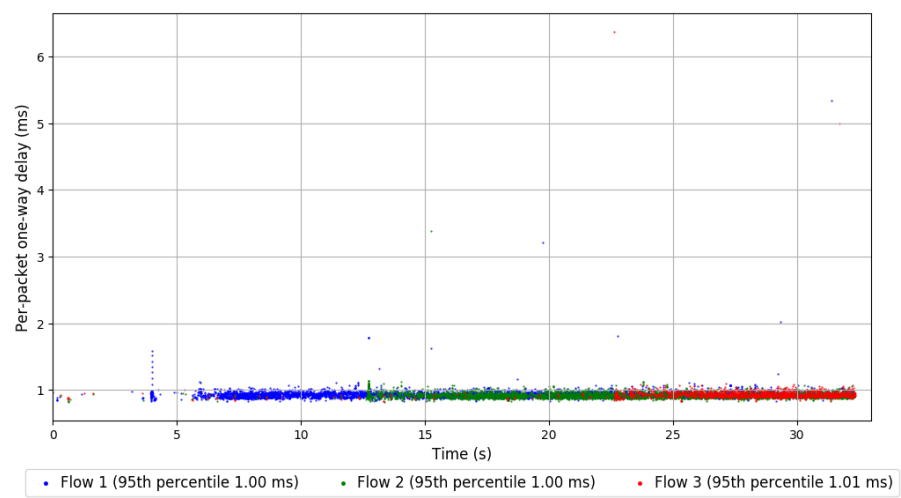
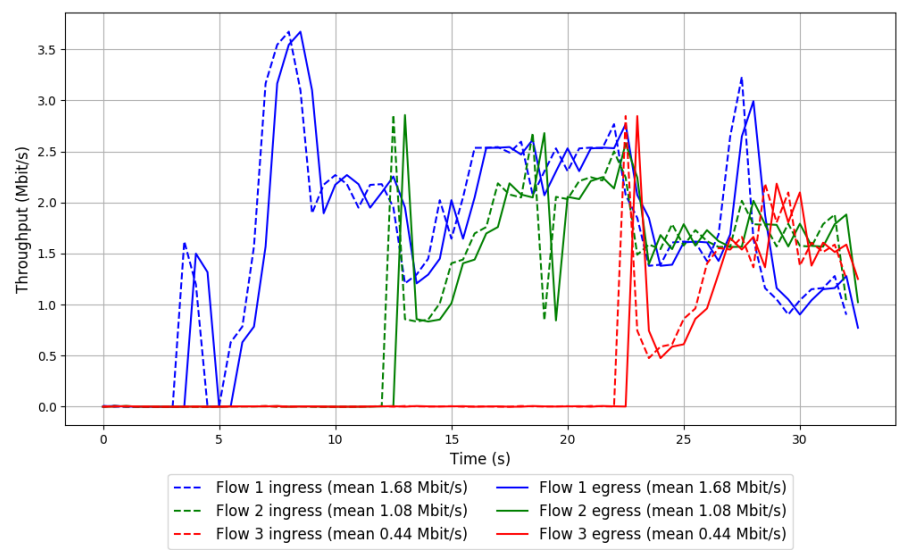
-- Flow 3:

Average throughput: 0.44 Mbit/s

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

Loss rate: 0.01%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-07-25 08:01:36

End at: 2018-07-25 08:02:06

Local clock offset: 3.212 ms

Remote clock offset: 1.563 ms

Below is generated by plot.py at 2018-07-25 14:27:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.42 Mbit/s

95th percentile per-packet one-way delay: 1.030 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 1.68 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 1.032 ms

Loss rate: 0.07%

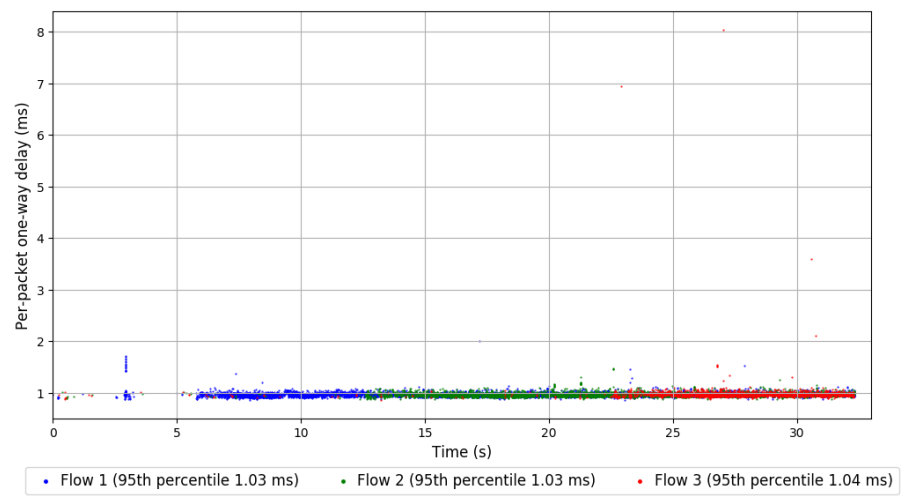
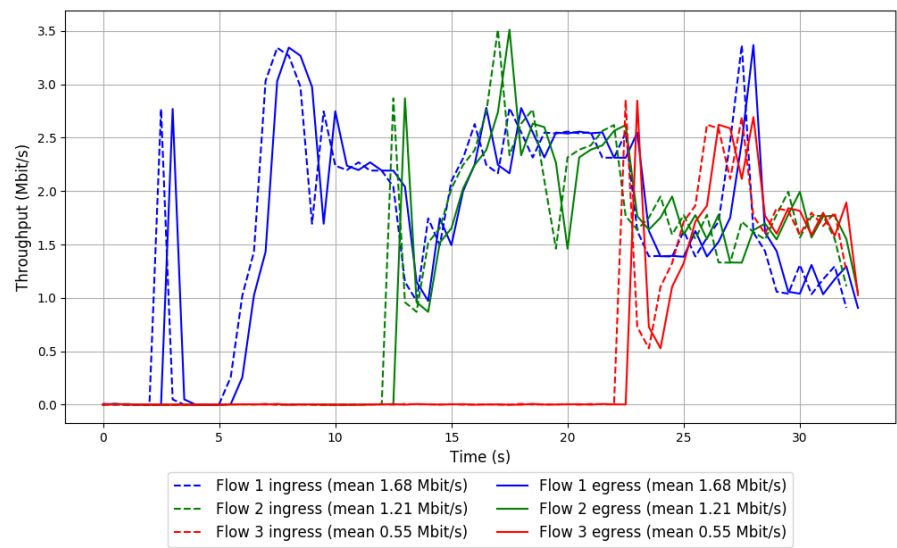
-- Flow 3:

Average throughput: 0.55 Mbit/s

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

Loss rate: 0.63%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-07-25 08:28:26

End at: 2018-07-25 08:28:56

Local clock offset: 3.102 ms

Remote clock offset: 2.132 ms

Below is generated by plot.py at 2018-07-25 14:27:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.43 Mbit/s

95th percentile per-packet one-way delay: 1.007 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 1.69 Mbit/s

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

Loss rate: 0.02%

-- Flow 2:

Average throughput: 1.22 Mbit/s

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

Loss rate: 0.28%

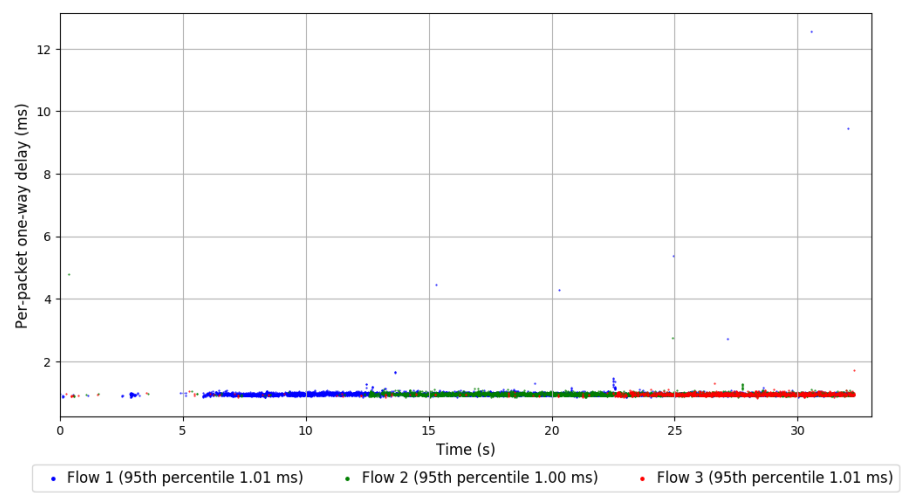
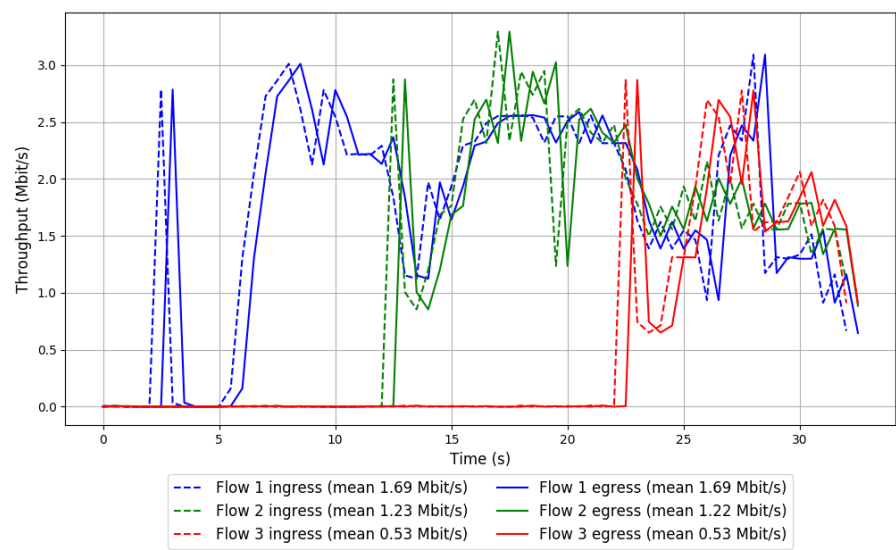
-- Flow 3:

Average throughput: 0.53 Mbit/s

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

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-07-25 08:55:26

End at: 2018-07-25 08:55:56

Local clock offset: 3.681 ms

Remote clock offset: 2.387 ms

Below is generated by plot.py at 2018-07-25 14:27:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.44 Mbit/s

95th percentile per-packet one-way delay: 1.095 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.72 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.20 Mbit/s

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

Loss rate: 0.00%

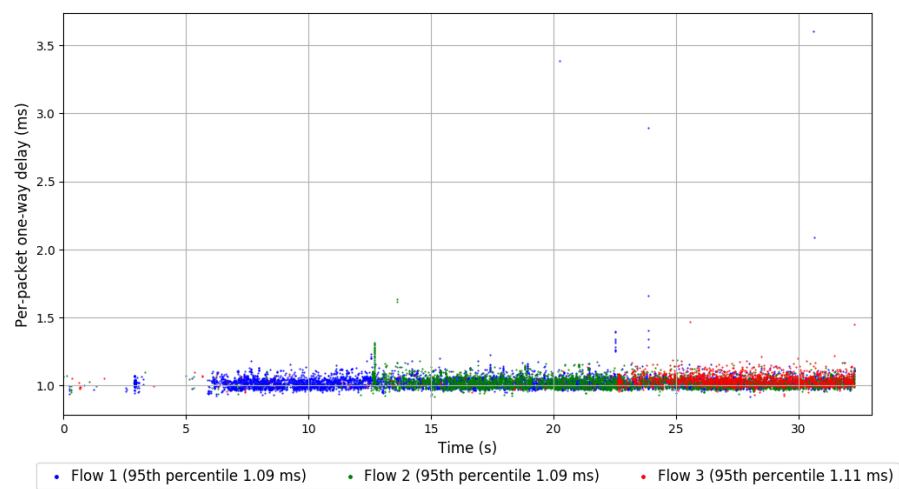
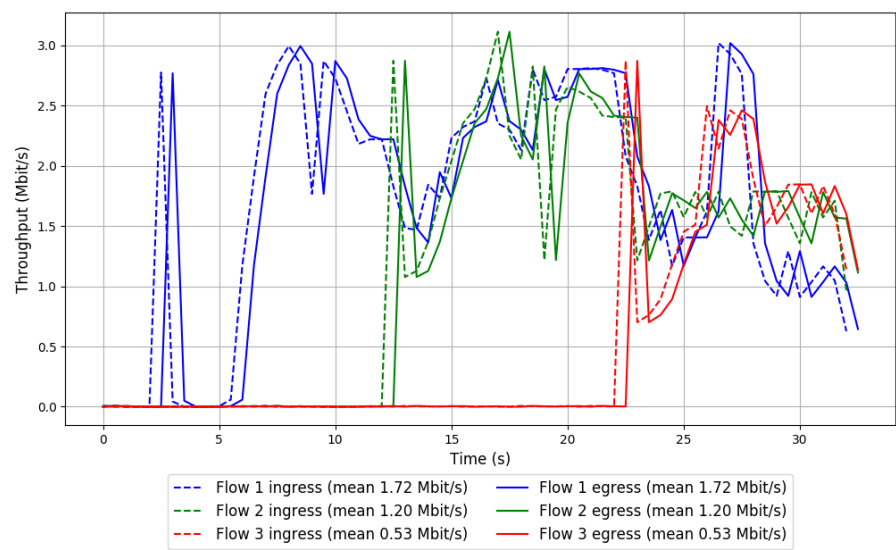
-- Flow 3:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 1.111 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-07-25 09:22:19

End at: 2018-07-25 09:22:49

Local clock offset: 3.876 ms

Remote clock offset: 2.485 ms

Below is generated by plot.py at 2018-07-25 14:27:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.46 Mbit/s

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

Loss rate: 0.10%

-- Flow 1:

Average throughput: 1.74 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 1.013 ms

Loss rate: 0.29%

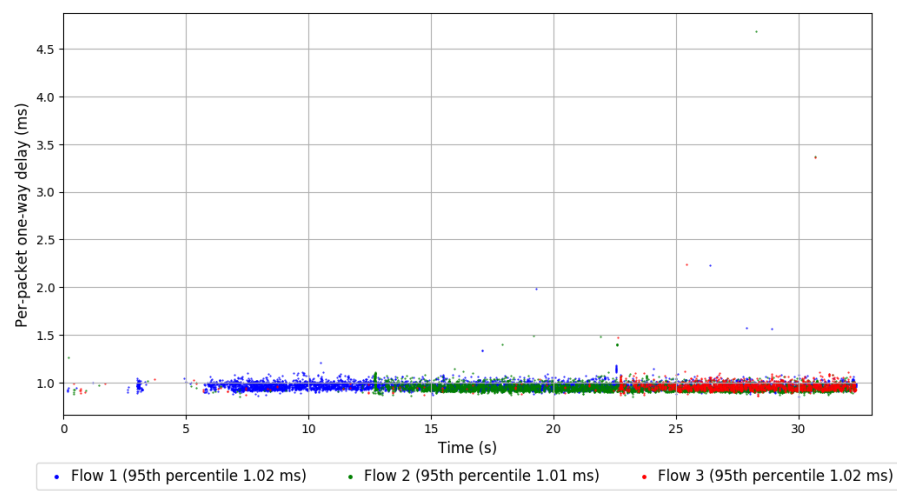
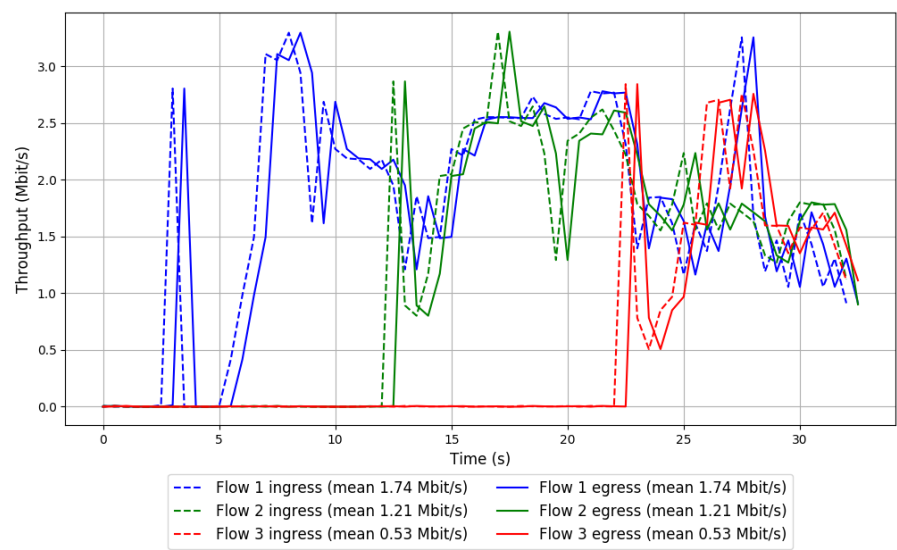
-- Flow 3:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 1.025 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-07-25 09:49:12

End at: 2018-07-25 09:49:42

Local clock offset: 3.726 ms

Remote clock offset: 2.286 ms

Below is generated by plot.py at 2018-07-25 14:27:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.47 Mbit/s

95th percentile per-packet one-way delay: 1.109 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 1.74 Mbit/s

95th percentile per-packet one-way delay: 1.113 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 1.098 ms

Loss rate: 0.00%

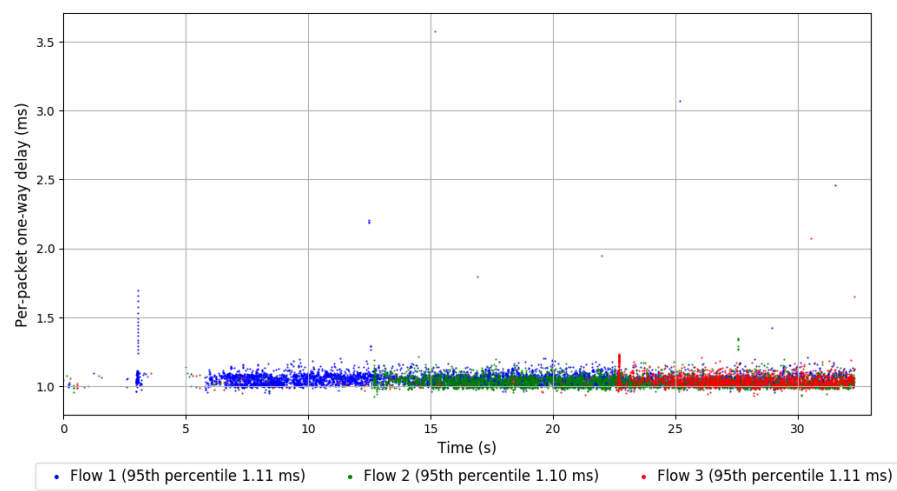
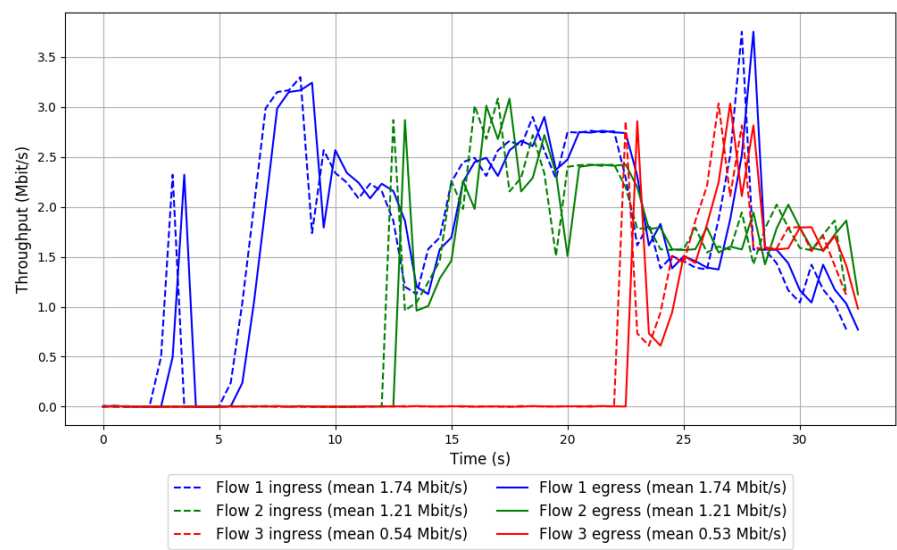
-- Flow 3:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 1.115 ms

Loss rate: 0.38%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-07-25 10:16:07

End at: 2018-07-25 10:16:37

Local clock offset: 4.035 ms

Remote clock offset: 2.032 ms

Below is generated by plot.py at 2018-07-25 14:27:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.29 Mbit/s

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

Loss rate: 0.11%

-- Flow 1:

Average throughput: 1.71 Mbit/s

95th percentile per-packet one-way delay: 1.079 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 1.086 ms

Loss rate: 0.00%

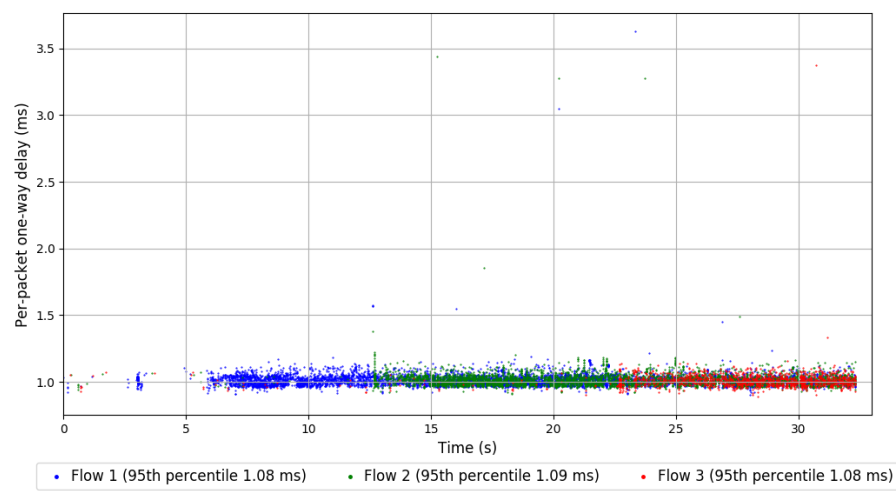
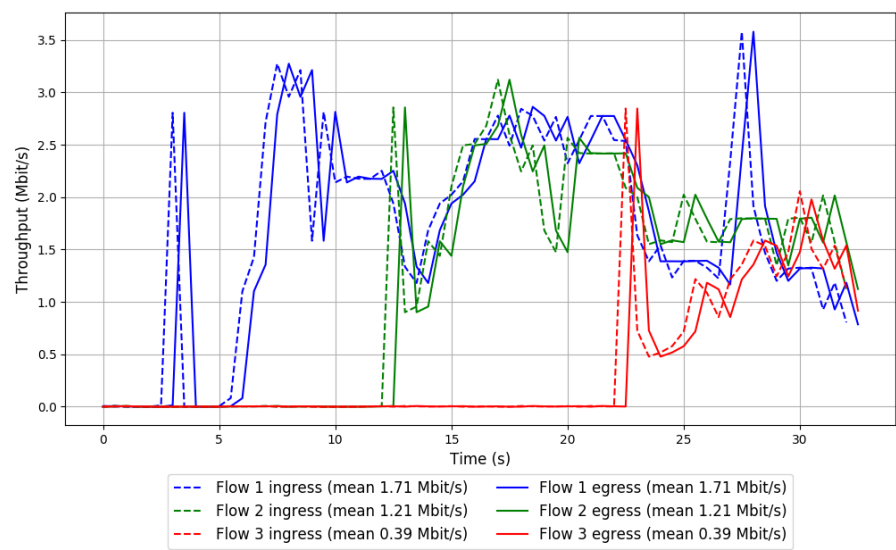
-- Flow 3:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 1.079 ms

Loss rate: 0.84%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-07-25 10:42:55

End at: 2018-07-25 10:43:25

Local clock offset: 4.223 ms

Remote clock offset: 1.952 ms

Below is generated by plot.py at 2018-07-25 14:27:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.45 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.68 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.23 Mbit/s

95th percentile per-packet one-way delay: 1.013 ms

Loss rate: 0.00%

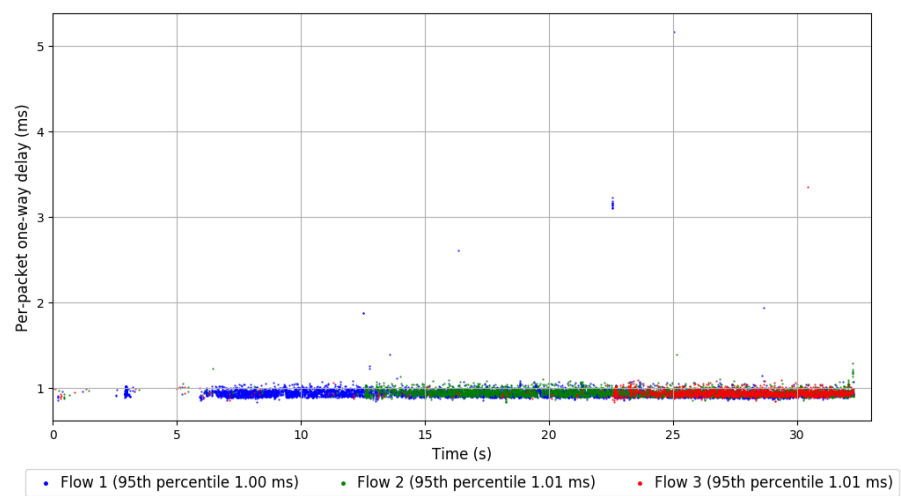
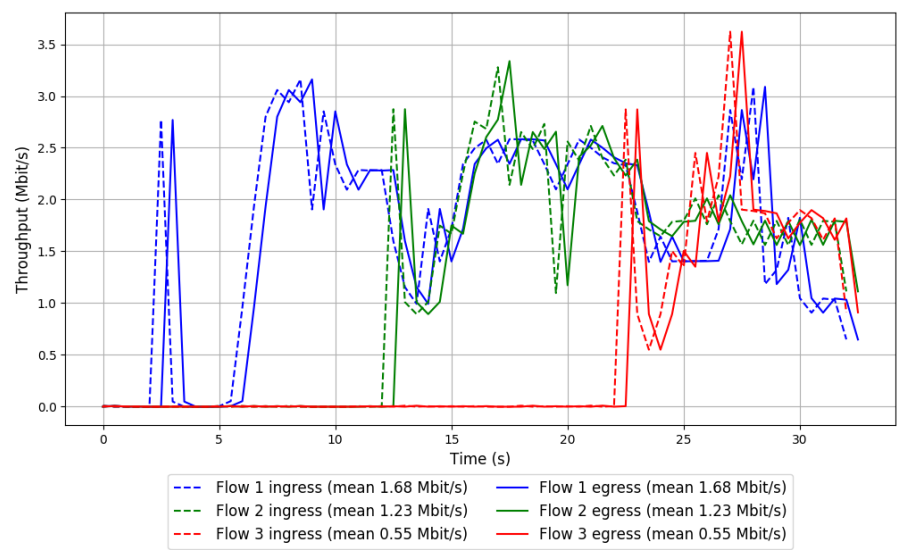
-- Flow 3:

Average throughput: 0.55 Mbit/s

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

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-07-25 11:09:48

End at: 2018-07-25 11:10:18

Local clock offset: 4.155 ms

Remote clock offset: 1.807 ms

Below is generated by plot.py at 2018-07-25 14:27:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.51 Mbit/s

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

Loss rate: 0.10%

-- Flow 1:

Average throughput: 1.73 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.25 Mbit/s

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

Loss rate: 0.28%

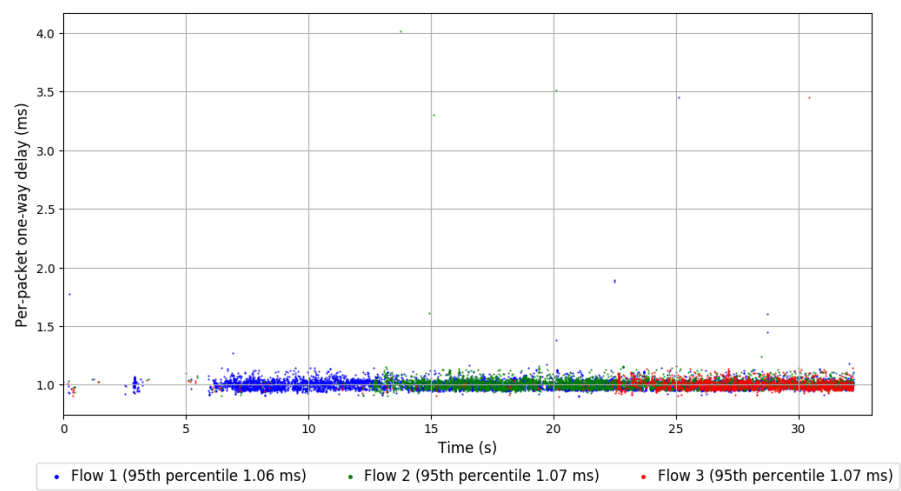
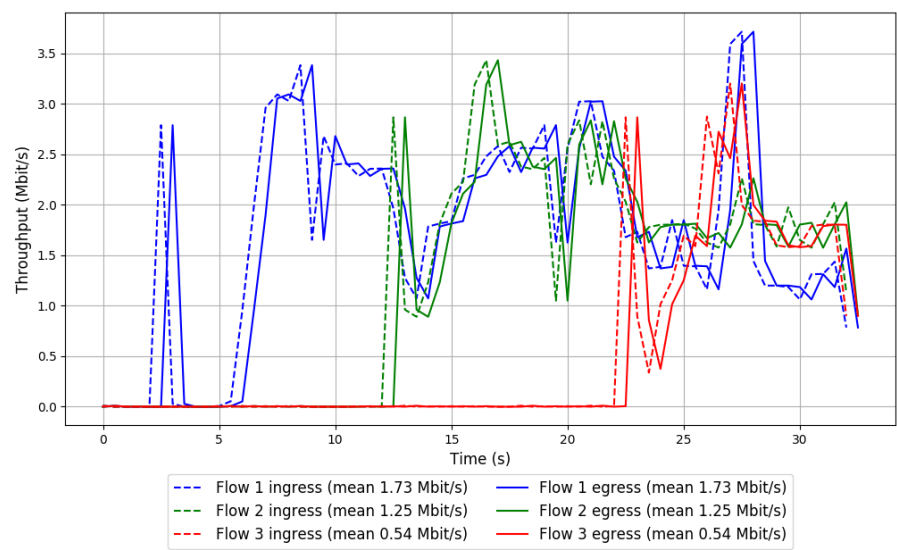
-- Flow 3:

Average throughput: 0.54 Mbit/s

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

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-07-25 11:36:40

End at: 2018-07-25 11:37:10

Local clock offset: 4.051 ms

Remote clock offset: 1.589 ms

Below is generated by plot.py at 2018-07-25 14:27:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.44 Mbit/s

95th percentile per-packet one-way delay: 1.199 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 1.71 Mbit/s

95th percentile per-packet one-way delay: 1.201 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 1.196 ms

Loss rate: 0.21%

-- Flow 3:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 1.201 ms

Loss rate: 0.56%

Run 10: Report of WebRTC media — Data Link

