

Pantheon Report

Generated at 2018-07-17 23:36:51 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

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

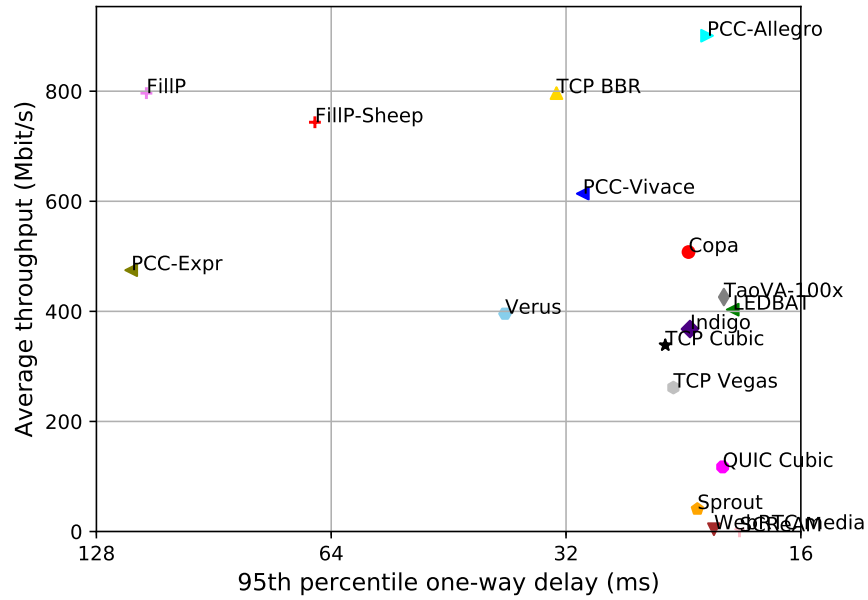
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

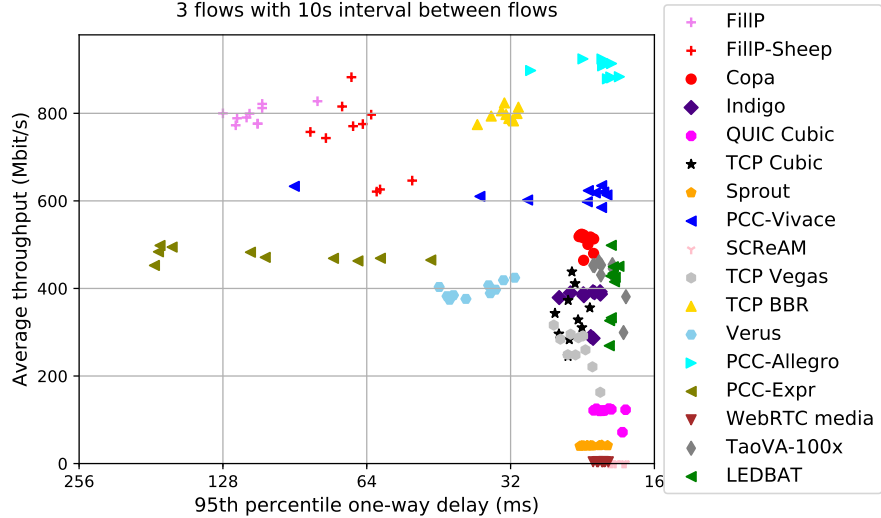
Git summary:

```
branch: master @ f7befc2d8410f41949e0ad8143a9aab40bab7edb
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ daed0c84f98531712514b2231f43ec6901114ffe
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webRTC @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from AWS California 1 to Stanford, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from AWS California 1 to Stanford, 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	461.44	350.25	306.63	33.89	26.68	20.63	5.62	10.05	11.82
Copa	10	273.38	247.04	210.04	21.68	22.28	24.05	0.08	0.10	0.13
TCP Cubic	10	151.14	160.82	241.05	22.07	25.16	24.72	0.10	0.13	0.20
FillP	10	487.75	339.92	248.79	104.99	119.36	120.27	12.34	19.89	22.63
FillP-Sheep	10	484.38	229.51	322.54	65.24	73.53	72.43	13.29	23.75	21.36
Indigo	10	176.35	194.00	193.36	23.20	21.72	20.65	0.11	0.16	0.25
LEDBAT	10	232.19	193.51	126.29	19.51	19.31	19.78	0.02	0.04	0.06
PCC-Allegro	10	774.72	154.52	71.16	21.69	19.70	19.80	0.87	0.71	1.01
PCC-Expr	10	289.79	245.76	65.31	112.20	113.39	20.02	1.50	0.43	0.01
QUIC Cubic	10	58.77	62.33	52.36	19.04	19.90	22.39	0.04	0.06	0.10
SCReAM	10	0.22	0.22	0.22	18.94	19.18	18.92	0.00	0.02	0.00
Sprout	10	20.49	20.60	20.44	21.59	21.65	21.96	0.16	0.17	0.00
TaoVA-100x	10	218.42	218.08	187.50	19.13	20.14	21.65	0.03	0.05	0.06
TCP Vegas	10	118.42	132.87	164.16	22.42	23.95	23.40	0.08	0.18	0.22
Verus	10	205.13	203.93	166.10	42.37	34.87	34.04	22.29	25.36	24.53
PCC-Vivace	10	374.03	308.14	105.67	30.75	36.03	19.34	0.36	0.49	0.27
WebRTC media	10	2.11	1.46	0.60	20.40	20.71	21.36	0.04	0.02	0.07

Run 1: Statistics of TCP BBR

Start at: 2018-07-17 16:51:44

End at: 2018-07-17 16:52:14

Local clock offset: -3.381 ms

Remote clock offset: 0.731 ms

Below is generated by plot.py at 2018-07-17 21:35:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 774.39 Mbit/s

95th percentile per-packet one-way delay: 37.557 ms

Loss rate: 7.84%

-- Flow 1:

Average throughput: 452.21 Mbit/s

95th percentile per-packet one-way delay: 38.404 ms

Loss rate: 5.72%

-- Flow 2:

Average throughput: 327.86 Mbit/s

95th percentile per-packet one-way delay: 30.591 ms

Loss rate: 10.36%

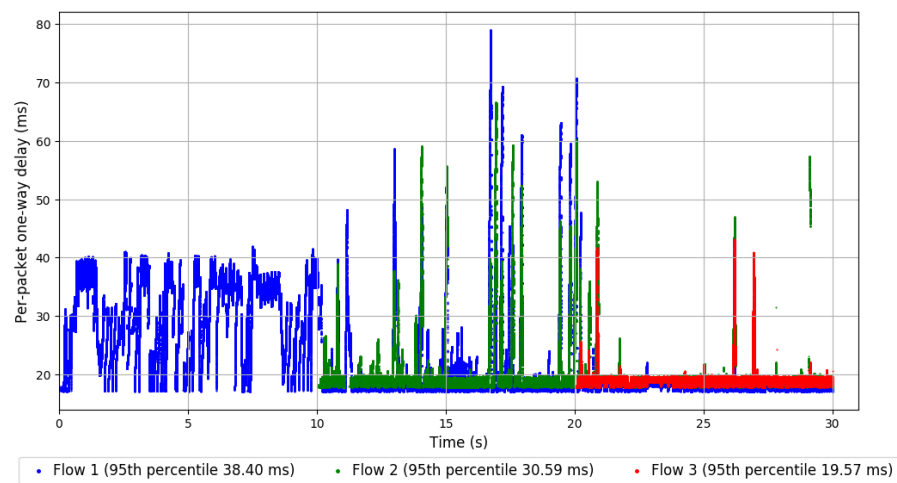
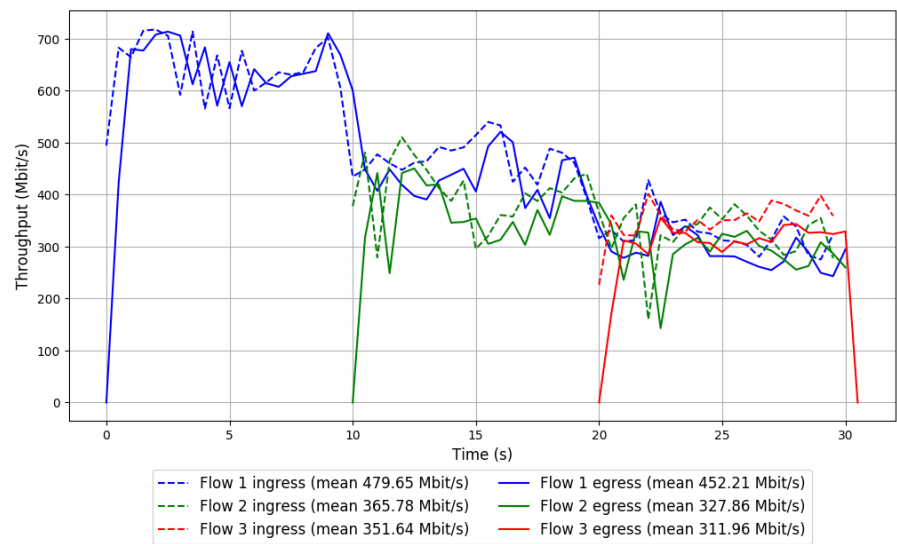
-- Flow 3:

Average throughput: 311.96 Mbit/s

95th percentile per-packet one-way delay: 19.566 ms

Loss rate: 11.26%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-07-17 17:19:05

End at: 2018-07-17 17:19:35

Local clock offset: -0.892 ms

Remote clock offset: 1.449 ms

Below is generated by plot.py at 2018-07-17 21:35:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 793.81 Mbit/s

95th percentile per-packet one-way delay: 35.128 ms

Loss rate: 8.28%

-- Flow 1:

Average throughput: 447.92 Mbit/s

95th percentile per-packet one-way delay: 35.807 ms

Loss rate: 5.71%

-- Flow 2:

Average throughput: 376.66 Mbit/s

95th percentile per-packet one-way delay: 34.622 ms

Loss rate: 10.75%

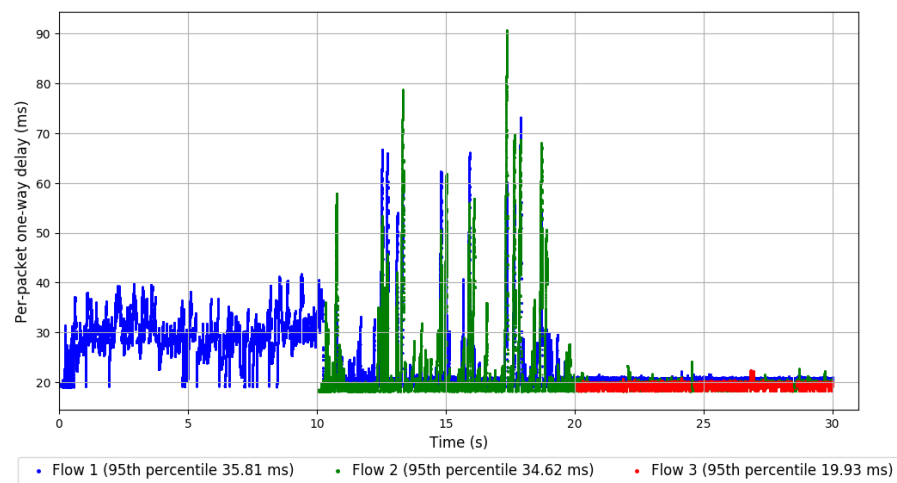
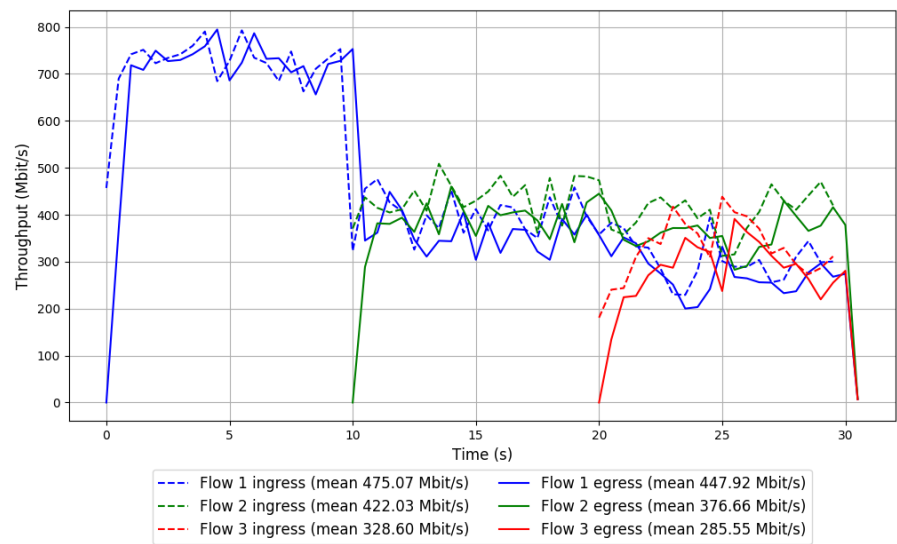
-- Flow 3:

Average throughput: 285.55 Mbit/s

95th percentile per-packet one-way delay: 19.931 ms

Loss rate: 13.11%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-07-17 17:46:27

End at: 2018-07-17 17:46:57

Local clock offset: 0.717 ms

Remote clock offset: 2.248 ms

Below is generated by plot.py at 2018-07-17 21:36:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 823.78 Mbit/s

95th percentile per-packet one-way delay: 32.965 ms

Loss rate: 7.90%

-- Flow 1:

Average throughput: 483.81 Mbit/s

95th percentile per-packet one-way delay: 33.929 ms

Loss rate: 5.72%

-- Flow 2:

Average throughput: 367.44 Mbit/s

95th percentile per-packet one-way delay: 27.952 ms

Loss rate: 9.97%

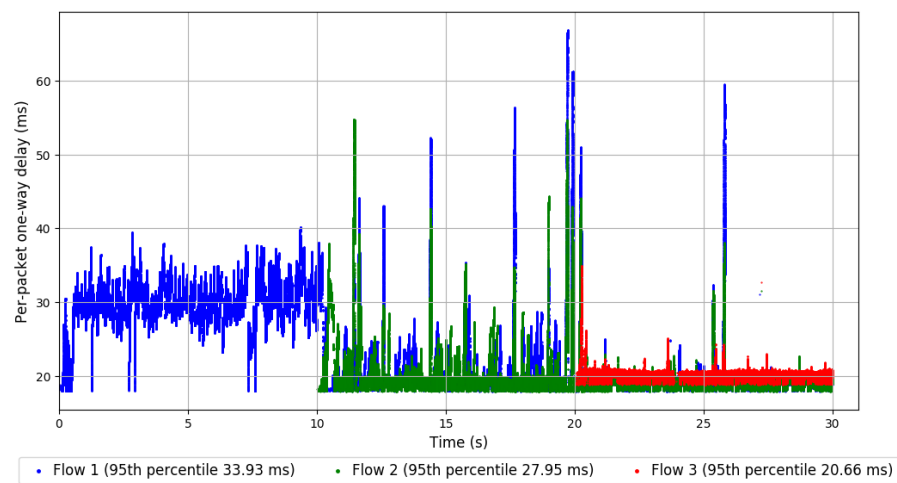
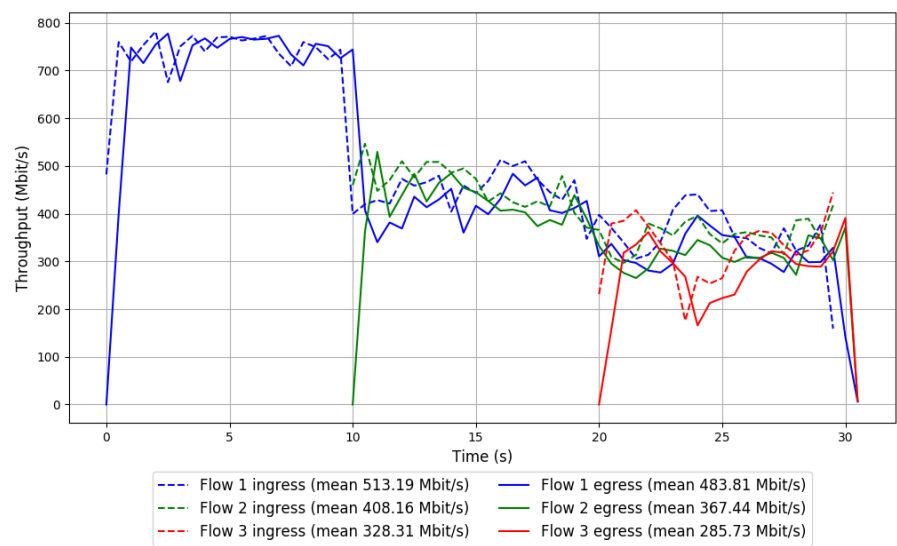
-- Flow 3:

Average throughput: 285.73 Mbit/s

95th percentile per-packet one-way delay: 20.660 ms

Loss rate: 12.97%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-07-17 18:13:39

End at: 2018-07-17 18:14:09

Local clock offset: 5.065 ms

Remote clock offset: 2.929 ms

Below is generated by plot.py at 2018-07-17 21:36:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 797.38 Mbit/s

95th percentile per-packet one-way delay: 32.707 ms

Loss rate: 7.80%

-- Flow 1:

Average throughput: 464.21 Mbit/s

95th percentile per-packet one-way delay: 33.552 ms

Loss rate: 5.42%

-- Flow 2:

Average throughput: 341.30 Mbit/s

95th percentile per-packet one-way delay: 24.393 ms

Loss rate: 10.80%

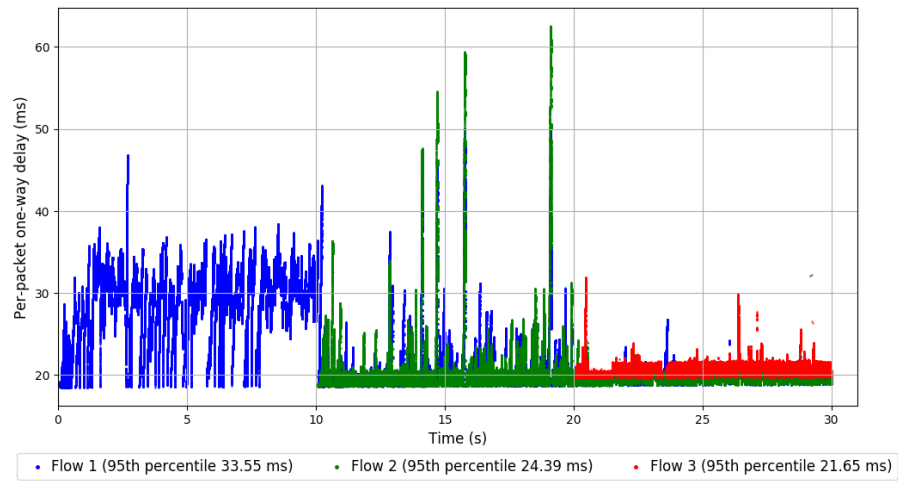
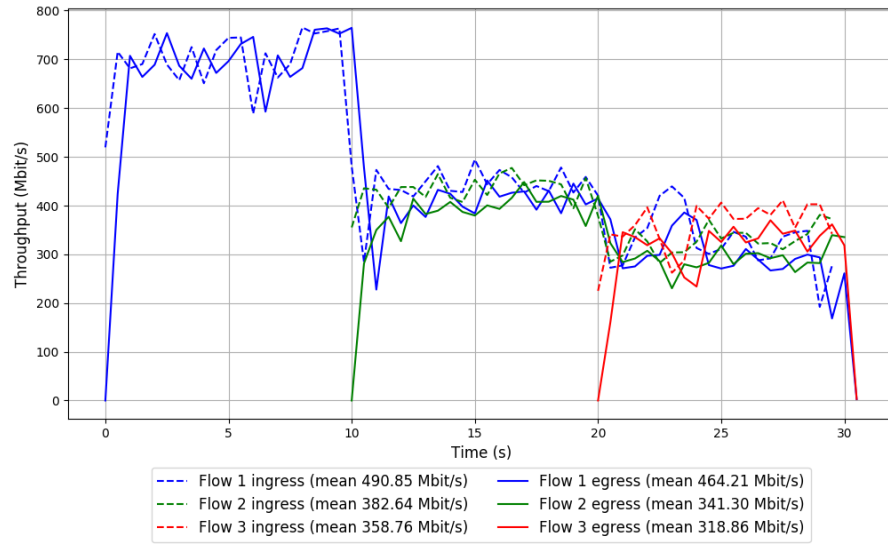
-- Flow 3:

Average throughput: 318.86 Mbit/s

95th percentile per-packet one-way delay: 21.653 ms

Loss rate: 11.14%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-07-17 18:40:54

End at: 2018-07-17 18:41:24

Local clock offset: 14.942 ms

Remote clock offset: 3.482 ms

Below is generated by plot.py at 2018-07-17 21:36:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 788.30 Mbit/s

95th percentile per-packet one-way delay: 32.272 ms

Loss rate: 8.24%

-- Flow 1:

Average throughput: 460.68 Mbit/s

95th percentile per-packet one-way delay: 33.440 ms

Loss rate: 6.00%

-- Flow 2:

Average throughput: 322.86 Mbit/s

95th percentile per-packet one-way delay: 21.658 ms

Loss rate: 11.25%

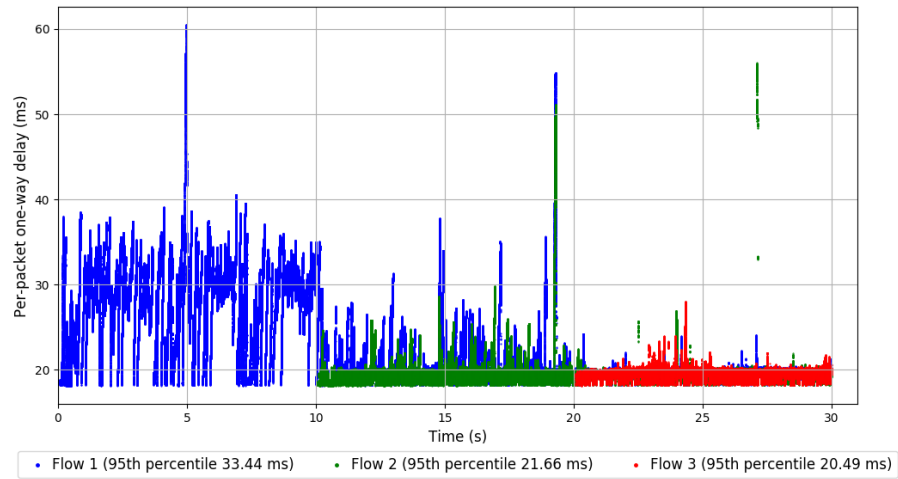
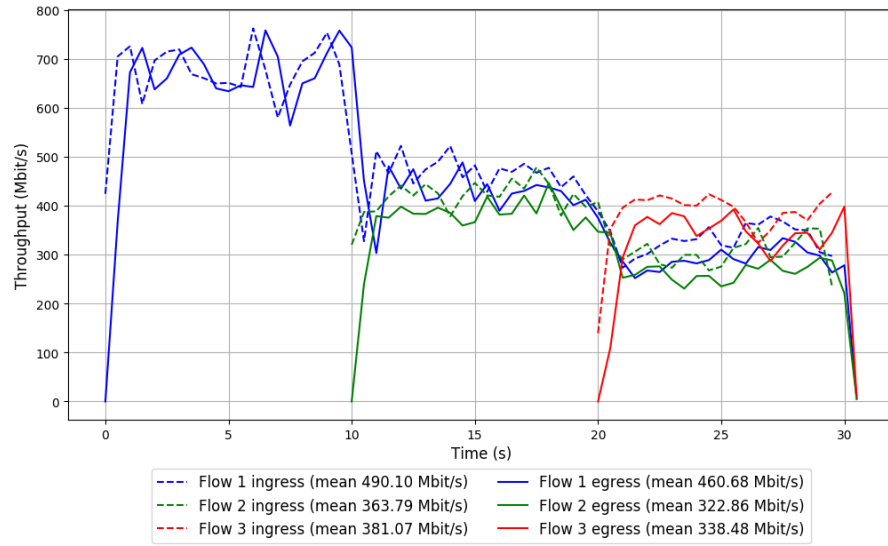
-- Flow 3:

Average throughput: 338.48 Mbit/s

95th percentile per-packet one-way delay: 20.489 ms

Loss rate: 11.17%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-07-17 19:08:00

End at: 2018-07-17 19:08:30

Local clock offset: 18.501 ms

Remote clock offset: 3.284 ms

Below is generated by plot.py at 2018-07-17 21:36:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 805.81 Mbit/s

95th percentile per-packet one-way delay: 33.429 ms

Loss rate: 7.33%

-- Flow 1:

Average throughput: 467.82 Mbit/s

95th percentile per-packet one-way delay: 34.208 ms

Loss rate: 5.23%

-- Flow 2:

Average throughput: 351.47 Mbit/s

95th percentile per-packet one-way delay: 27.217 ms

Loss rate: 9.57%

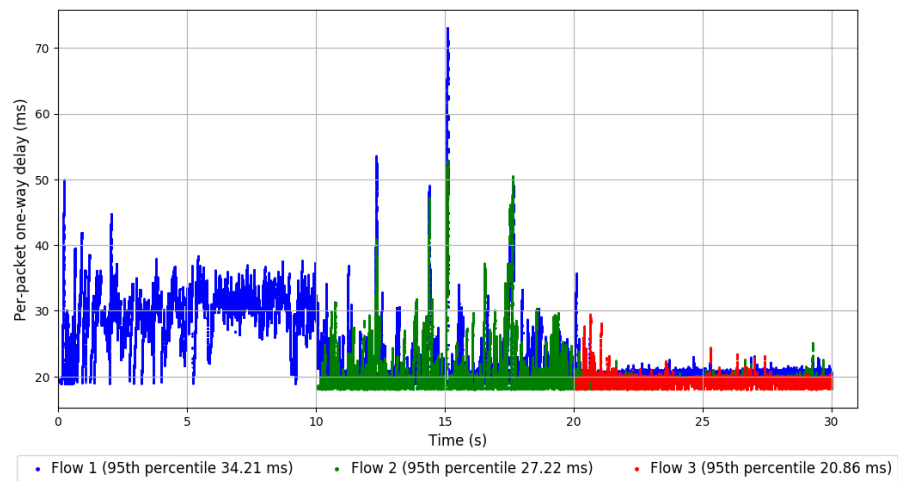
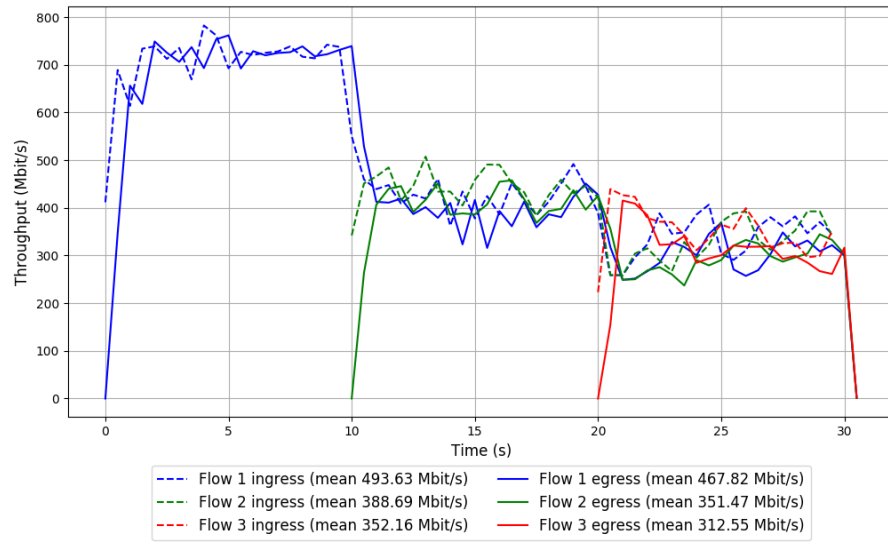
-- Flow 3:

Average throughput: 312.55 Mbit/s

95th percentile per-packet one-way delay: 20.860 ms

Loss rate: 11.25%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-07-17 19:34:57

End at: 2018-07-17 19:35:27

Local clock offset: -4.815 ms

Remote clock offset: 3.021 ms

Below is generated by plot.py at 2018-07-17 21:36:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 814.04 Mbit/s

95th percentile per-packet one-way delay: 30.816 ms

Loss rate: 7.52%

-- Flow 1:

Average throughput: 460.04 Mbit/s

95th percentile per-packet one-way delay: 31.784 ms

Loss rate: 5.59%

-- Flow 2:

Average throughput: 387.79 Mbit/s

95th percentile per-packet one-way delay: 23.439 ms

Loss rate: 8.96%

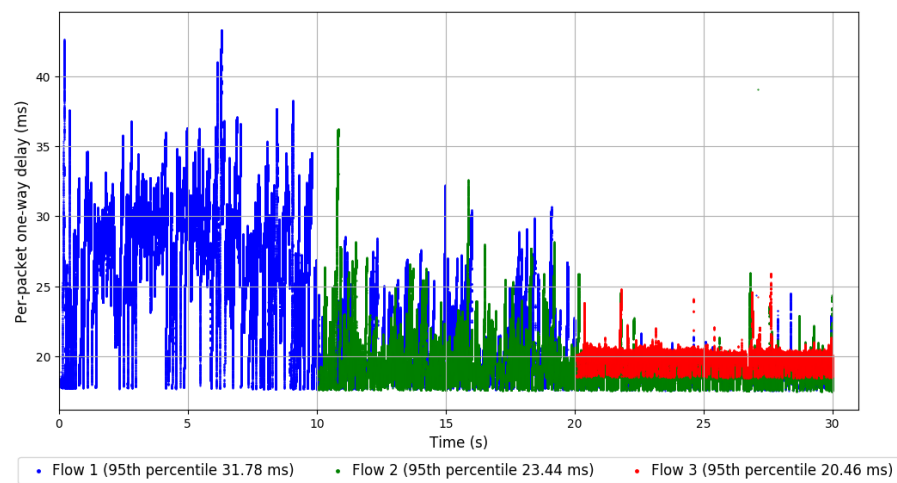
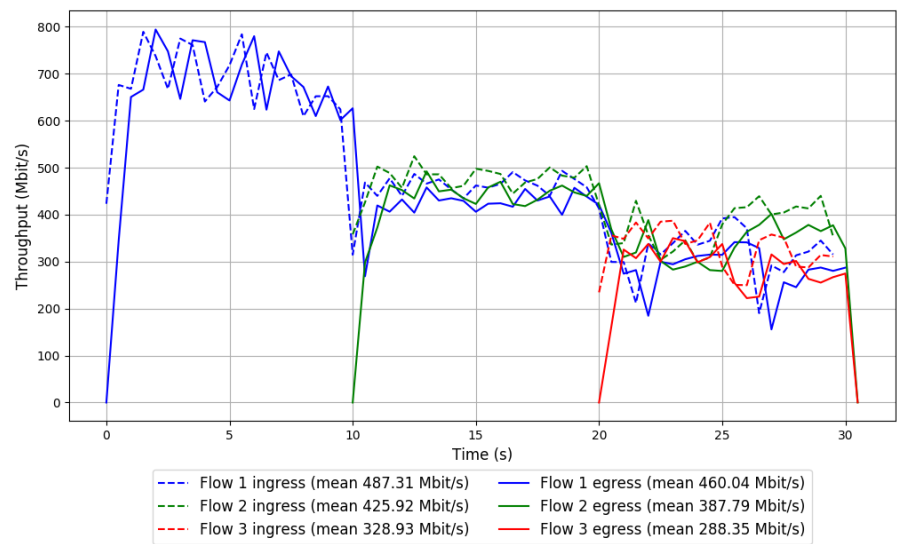
-- Flow 3:

Average throughput: 288.35 Mbit/s

95th percentile per-packet one-way delay: 20.456 ms

Loss rate: 12.35%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-07-17 20:02:14

End at: 2018-07-17 20:02:44

Local clock offset: -2.97 ms

Remote clock offset: 2.54 ms

Below is generated by plot.py at 2018-07-17 21:36:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 782.82 Mbit/s

95th percentile per-packet one-way delay: 31.560 ms

Loss rate: 7.76%

-- Flow 1:

Average throughput: 455.72 Mbit/s

95th percentile per-packet one-way delay: 32.654 ms

Loss rate: 5.45%

-- Flow 2:

Average throughput: 337.10 Mbit/s

95th percentile per-packet one-way delay: 26.513 ms

Loss rate: 10.11%

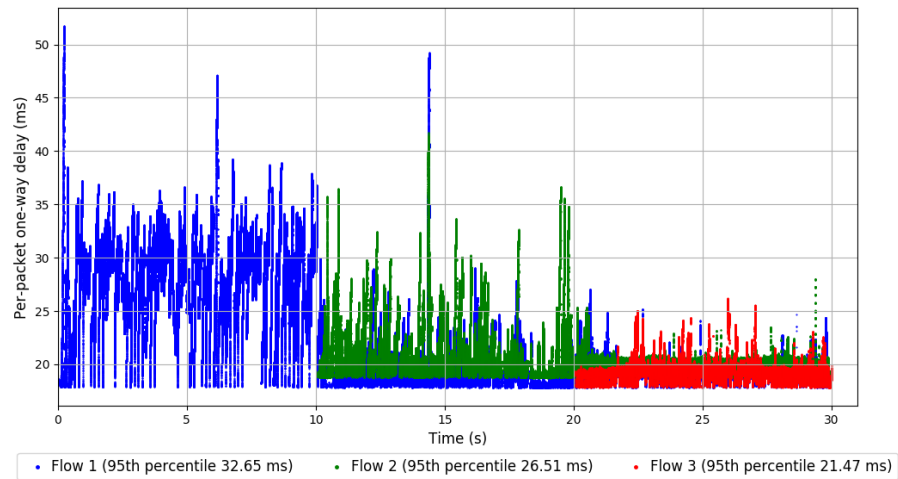
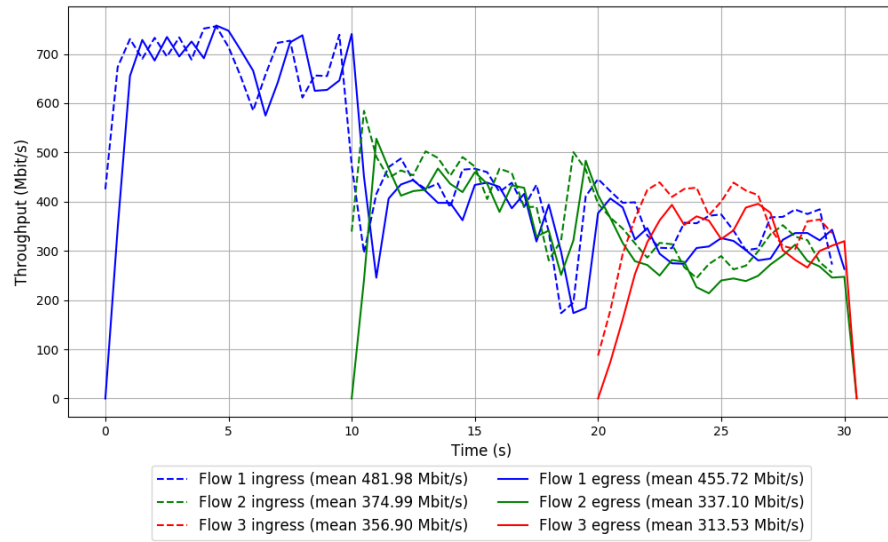
-- Flow 3:

Average throughput: 313.53 Mbit/s

95th percentile per-packet one-way delay: 21.474 ms

Loss rate: 12.16%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-07-17 20:29:42

End at: 2018-07-17 20:30:12

Local clock offset: -1.952 ms

Remote clock offset: 2.057 ms

Below is generated by plot.py at 2018-07-17 21:44:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 785.30 Mbit/s

95th percentile per-packet one-way delay: 31.693 ms

Loss rate: 7.58%

-- Flow 1:

Average throughput: 455.91 Mbit/s

95th percentile per-packet one-way delay: 33.151 ms

Loss rate: 5.92%

-- Flow 2:

Average throughput: 344.63 Mbit/s

95th percentile per-packet one-way delay: 24.312 ms

Loss rate: 9.39%

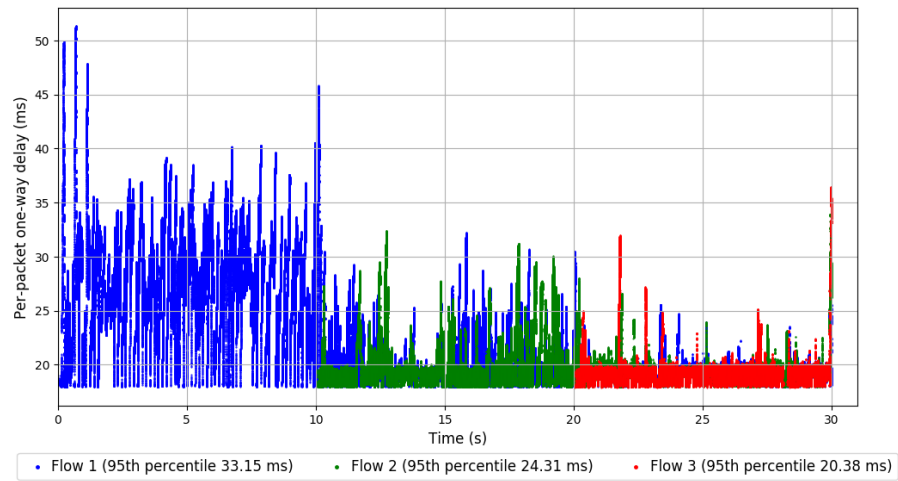
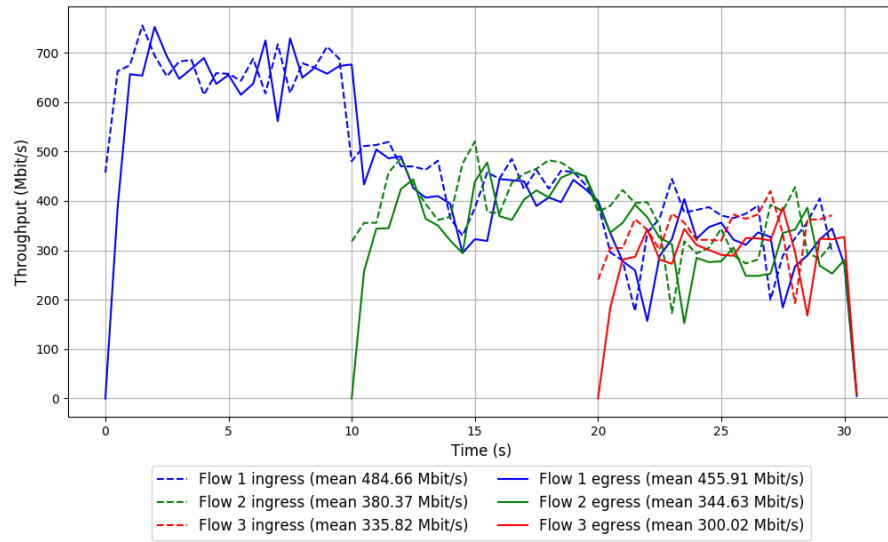
-- Flow 3:

Average throughput: 300.02 Mbit/s

95th percentile per-packet one-way delay: 20.380 ms

Loss rate: 10.66%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-07-17 20:56:38

End at: 2018-07-17 20:57:08

Local clock offset: -0.344 ms

Remote clock offset: 1.517 ms

Below is generated by plot.py at 2018-07-17 21:44:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 799.62 Mbit/s

95th percentile per-packet one-way delay: 31.023 ms

Loss rate: 7.49%

-- Flow 1:

Average throughput: 466.05 Mbit/s

95th percentile per-packet one-way delay: 31.942 ms

Loss rate: 5.42%

-- Flow 2:

Average throughput: 345.37 Mbit/s

95th percentile per-packet one-way delay: 26.097 ms

Loss rate: 9.37%

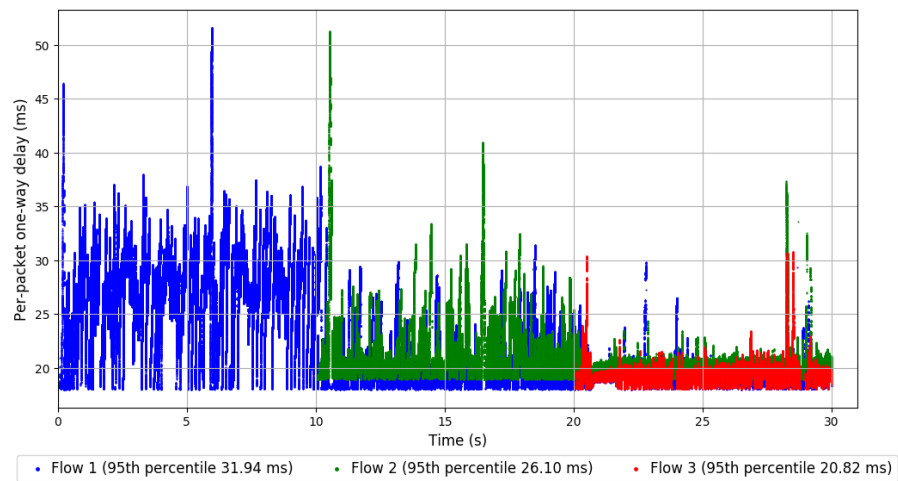
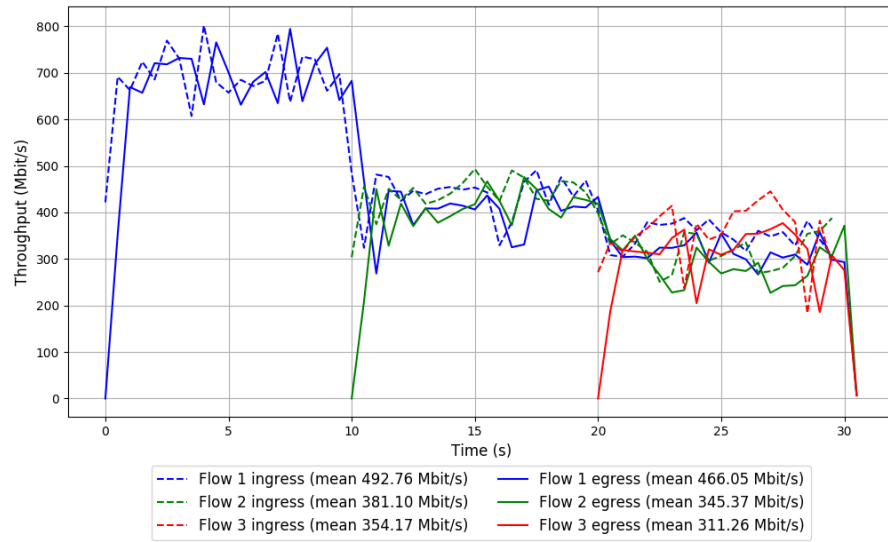
-- Flow 3:

Average throughput: 311.26 Mbit/s

95th percentile per-packet one-way delay: 20.819 ms

Loss rate: 12.11%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-07-17 16:45:03

End at: 2018-07-17 16:45:33

Local clock offset: -2.552 ms

Remote clock offset: 0.625 ms

Below is generated by plot.py at 2018-07-17 21:46:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 513.15 Mbit/s

95th percentile per-packet one-way delay: 21.441 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 281.23 Mbit/s

95th percentile per-packet one-way delay: 20.756 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 258.94 Mbit/s

95th percentile per-packet one-way delay: 21.673 ms

Loss rate: 0.02%

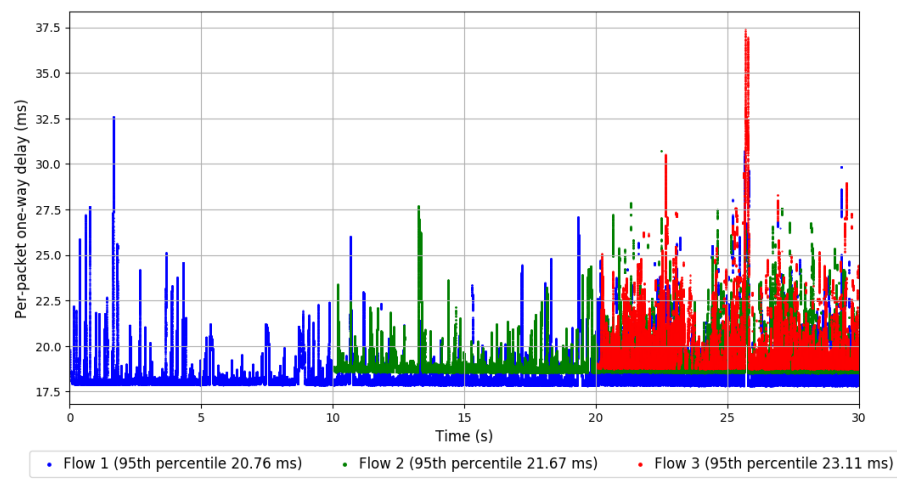
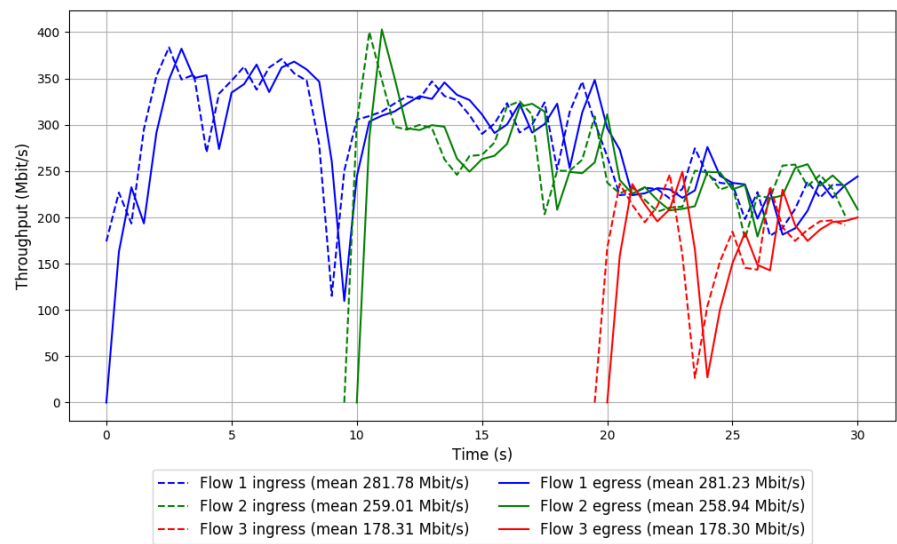
-- Flow 3:

Average throughput: 178.30 Mbit/s

95th percentile per-packet one-way delay: 23.112 ms

Loss rate: 0.01%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-07-17 17:12:21

End at: 2018-07-17 17:12:51

Local clock offset: -3.038 ms

Remote clock offset: 1.267 ms

Below is generated by plot.py at 2018-07-17 21:46:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 521.95 Mbit/s

95th percentile per-packet one-way delay: 22.879 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 286.87 Mbit/s

95th percentile per-packet one-way delay: 22.417 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 241.67 Mbit/s

95th percentile per-packet one-way delay: 23.680 ms

Loss rate: 0.27%

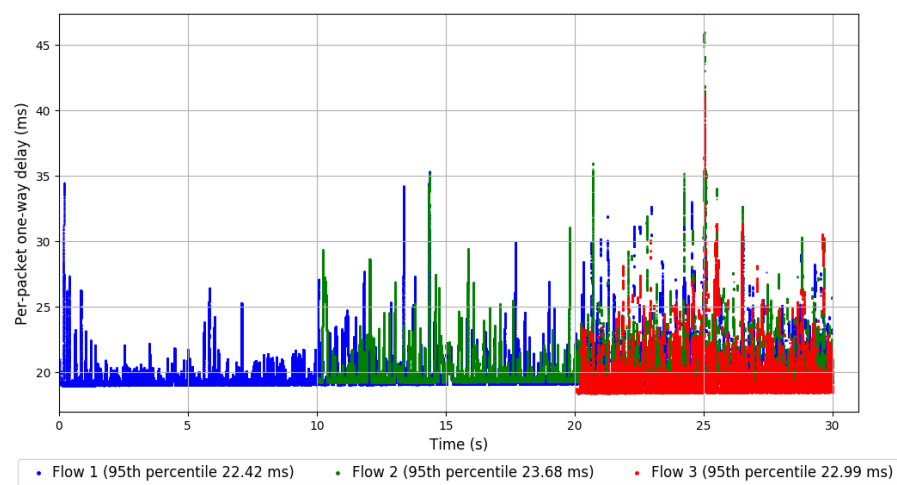
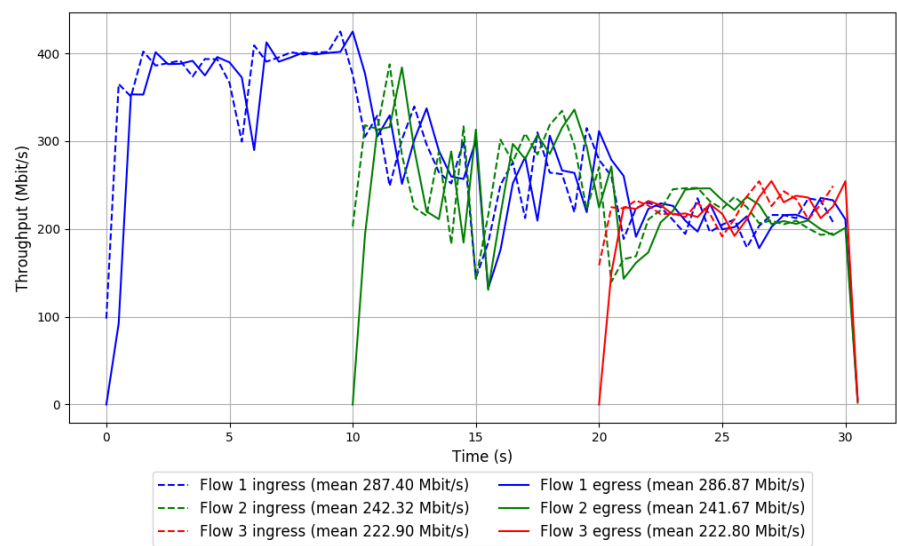
-- Flow 3:

Average throughput: 222.80 Mbit/s

95th percentile per-packet one-way delay: 22.987 ms

Loss rate: 0.04%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-07-17 17:39:43

End at: 2018-07-17 17:40:13

Local clock offset: 1.079 ms

Remote clock offset: 1.985 ms

Below is generated by plot.py at 2018-07-17 21:47:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 523.82 Mbit/s

95th percentile per-packet one-way delay: 22.722 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 285.92 Mbit/s

95th percentile per-packet one-way delay: 21.773 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 246.66 Mbit/s

95th percentile per-packet one-way delay: 22.313 ms

Loss rate: 0.24%

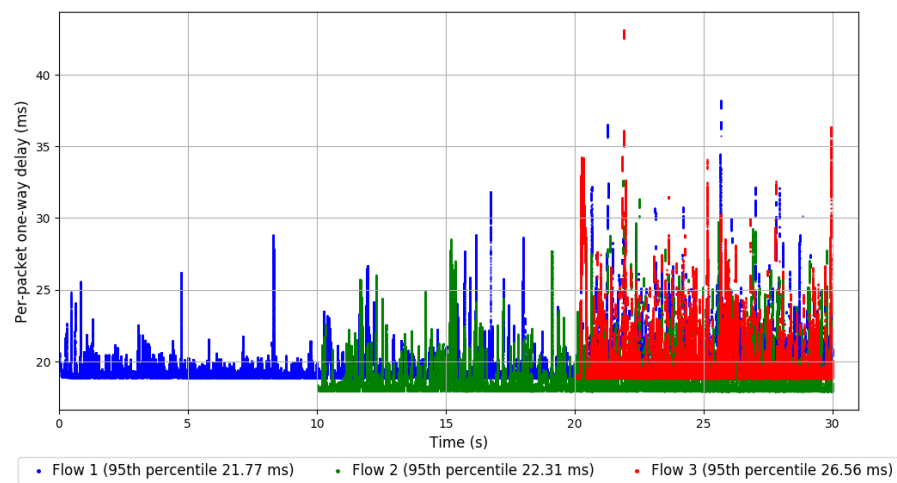
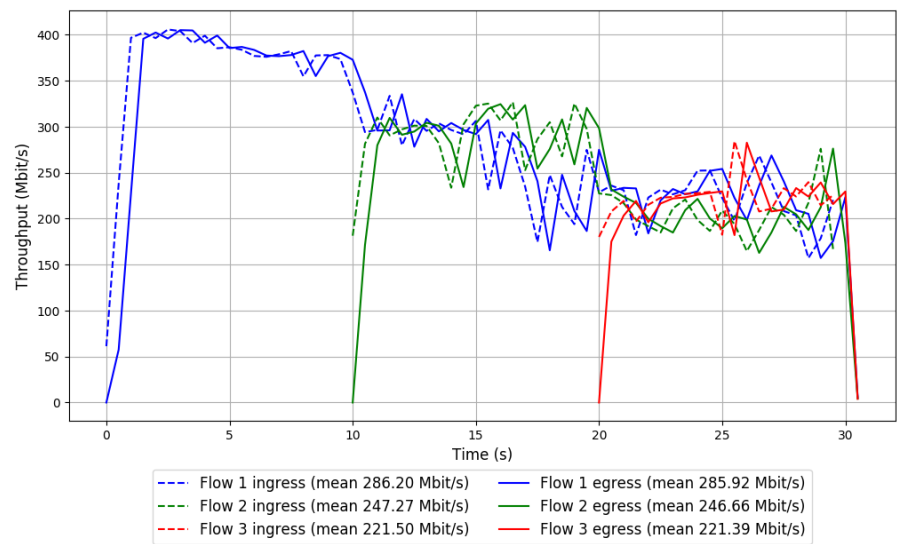
-- Flow 3:

Average throughput: 221.39 Mbit/s

95th percentile per-packet one-way delay: 26.563 ms

Loss rate: 0.05%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-07-17 18:06:59

End at: 2018-07-17 18:07:29

Local clock offset: 0.6 ms

Remote clock offset: 2.793 ms

Below is generated by plot.py at 2018-07-17 21:47:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 517.49 Mbit/s

95th percentile per-packet one-way delay: 21.782 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 284.90 Mbit/s

95th percentile per-packet one-way delay: 21.337 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 245.93 Mbit/s

95th percentile per-packet one-way delay: 21.774 ms

Loss rate: 0.10%

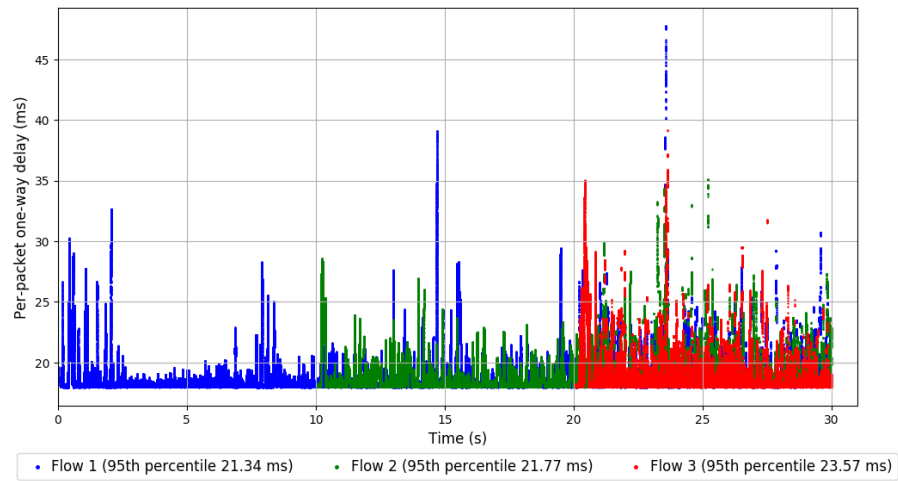
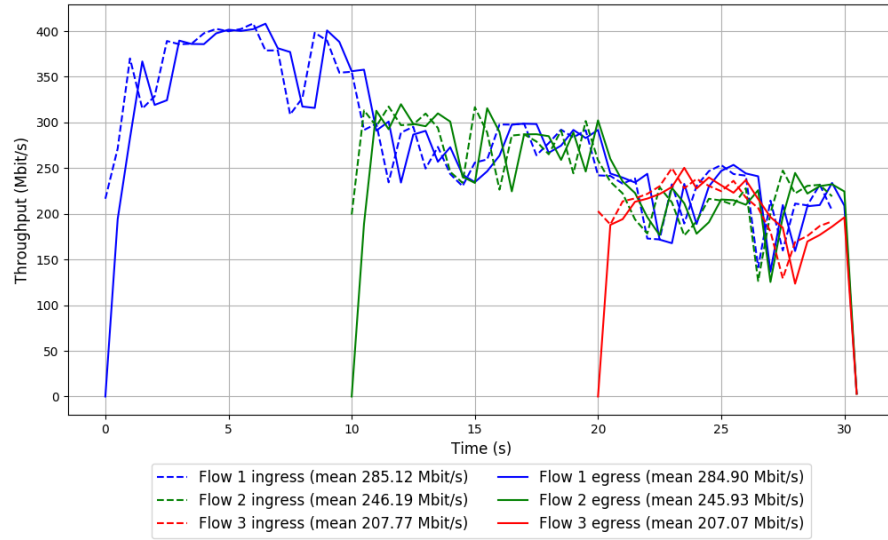
-- Flow 3:

Average throughput: 207.07 Mbit/s

95th percentile per-packet one-way delay: 23.571 ms

Loss rate: 0.34%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-07-17 18:34:13

End at: 2018-07-17 18:34:43

Local clock offset: 13.498 ms

Remote clock offset: 3.364 ms

Below is generated by plot.py at 2018-07-17 21:47:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 516.09 Mbit/s

95th percentile per-packet one-way delay: 22.587 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 277.17 Mbit/s

95th percentile per-packet one-way delay: 22.358 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 250.42 Mbit/s

95th percentile per-packet one-way delay: 21.864 ms

Loss rate: 0.02%

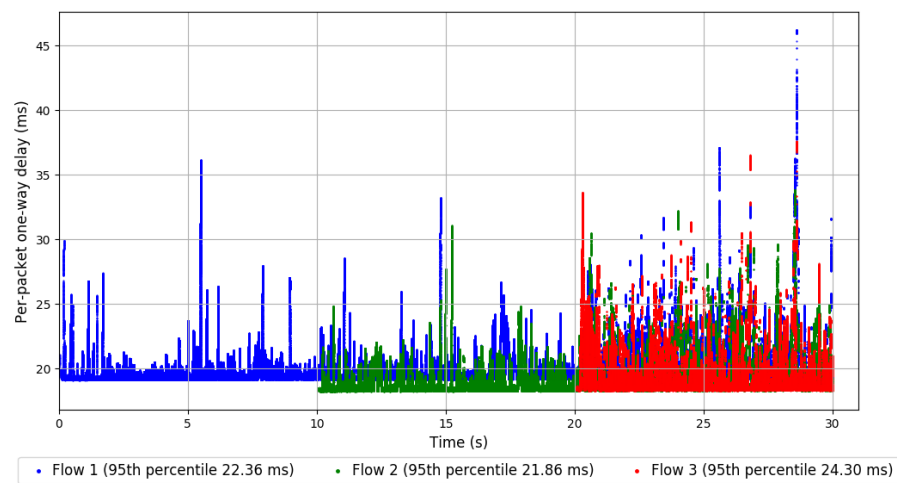
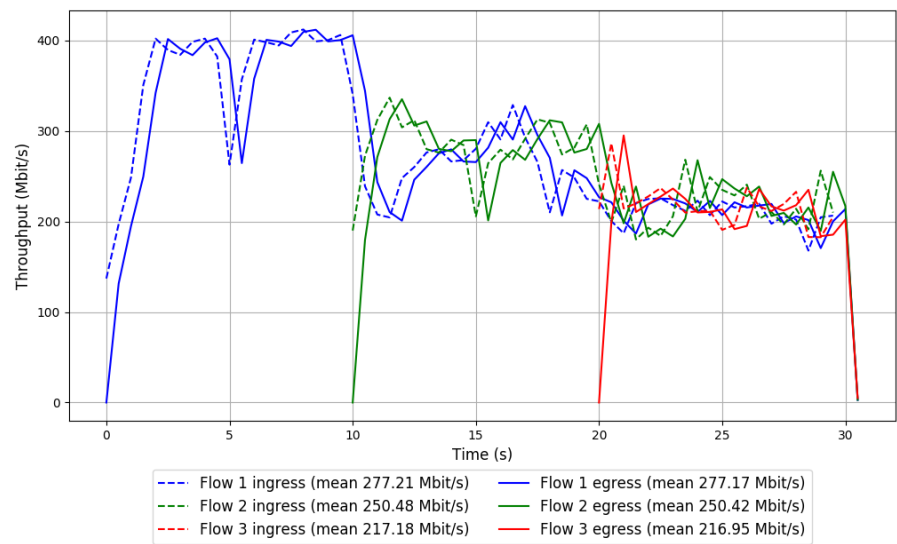
-- Flow 3:

Average throughput: 216.95 Mbit/s

95th percentile per-packet one-way delay: 24.301 ms

Loss rate: 0.11%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-07-17 19:01:20

End at: 2018-07-17 19:01:50

Local clock offset: 17.812 ms

Remote clock offset: 3.385 ms

Below is generated by plot.py at 2018-07-17 21:47:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 521.95 Mbit/s

95th percentile per-packet one-way delay: 22.493 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 277.10 Mbit/s

95th percentile per-packet one-way delay: 20.678 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 253.94 Mbit/s

95th percentile per-packet one-way delay: 23.253 ms

Loss rate: 0.03%

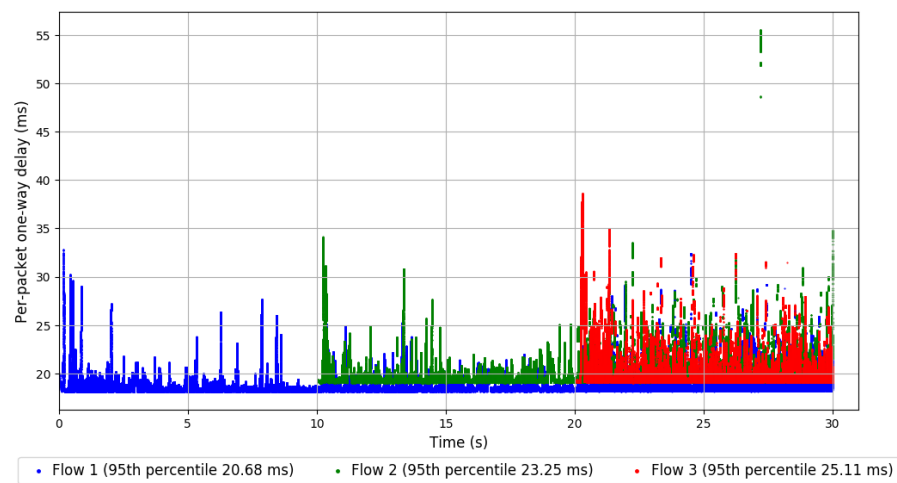
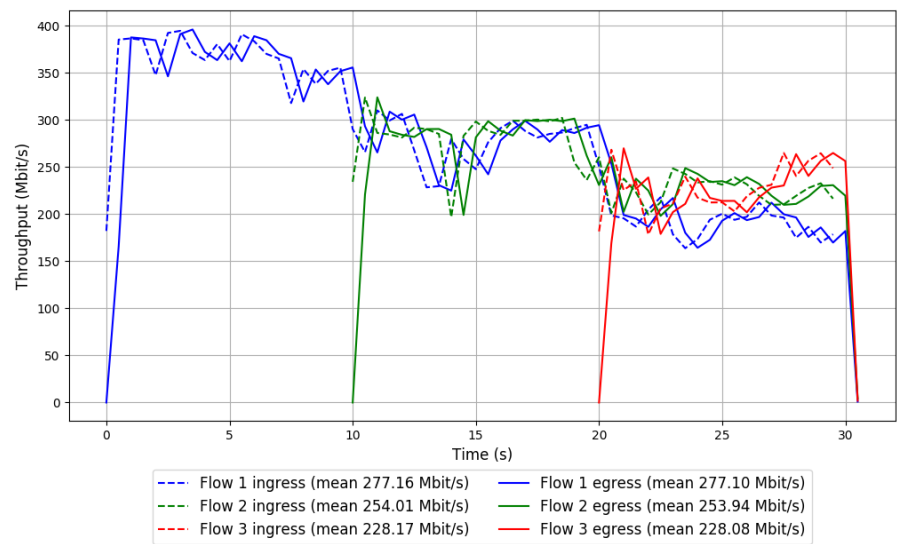
-- Flow 3:

Average throughput: 228.08 Mbit/s

95th percentile per-packet one-way delay: 25.107 ms

Loss rate: 0.05%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-07-17 19:28:18

End at: 2018-07-17 19:28:48

Local clock offset: -2.176 ms

Remote clock offset: 3.076 ms

Below is generated by plot.py at 2018-07-17 21:55:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 479.94 Mbit/s

95th percentile per-packet one-way delay: 21.448 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 261.87 Mbit/s

95th percentile per-packet one-way delay: 21.258 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 225.30 Mbit/s

95th percentile per-packet one-way delay: 20.939 ms

Loss rate: 0.32%

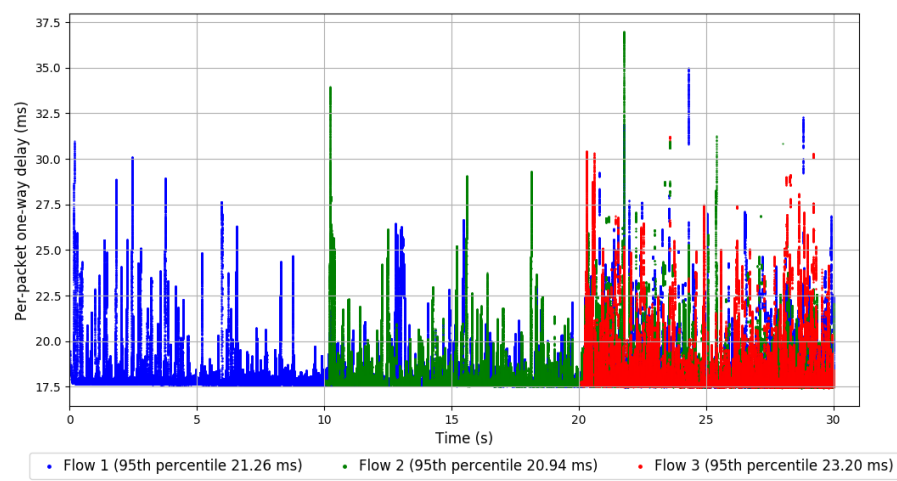
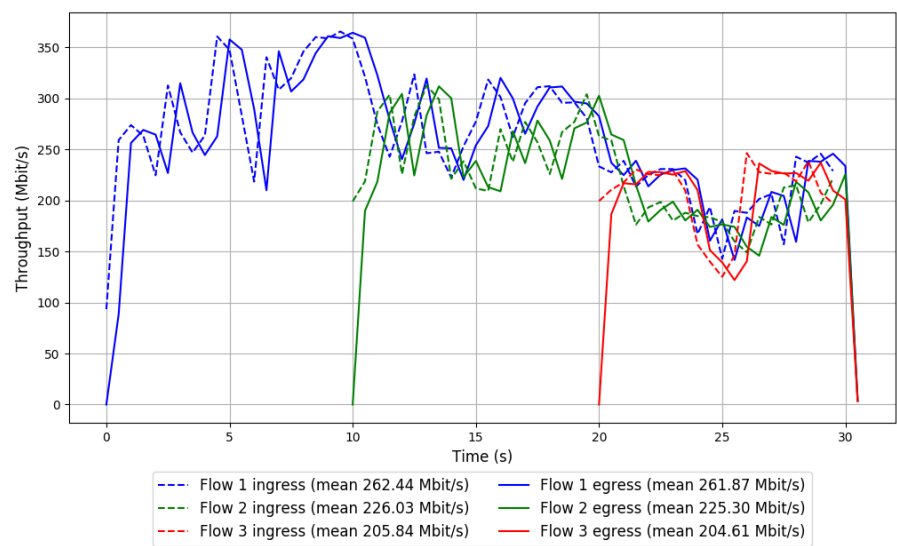
-- Flow 3:

Average throughput: 204.61 Mbit/s

95th percentile per-packet one-way delay: 23.204 ms

Loss rate: 0.59%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-07-17 19:55:35

End at: 2018-07-17 19:56:05

Local clock offset: -2.599 ms

Remote clock offset: 2.636 ms

Below is generated by plot.py at 2018-07-17 21:55:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 500.52 Mbit/s

95th percentile per-packet one-way delay: 22.046 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 265.30 Mbit/s

95th percentile per-packet one-way delay: 21.304 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 247.53 Mbit/s

95th percentile per-packet one-way delay: 21.888 ms

Loss rate: 0.01%

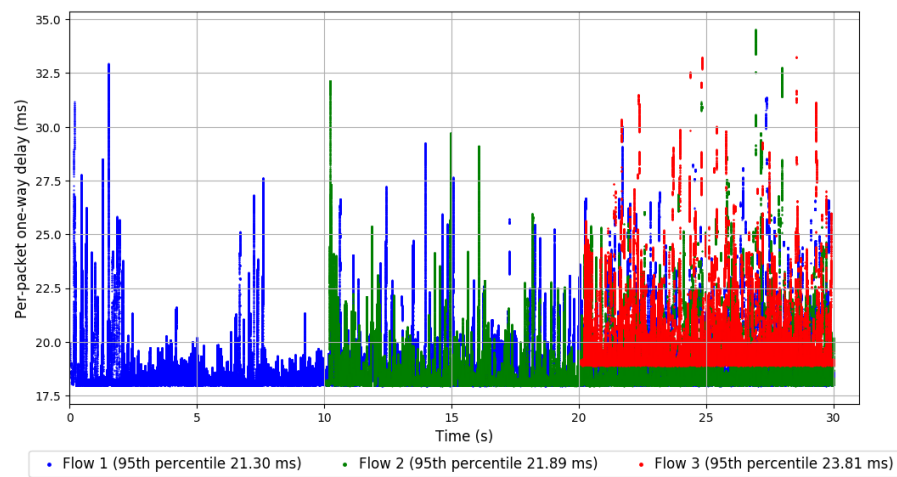
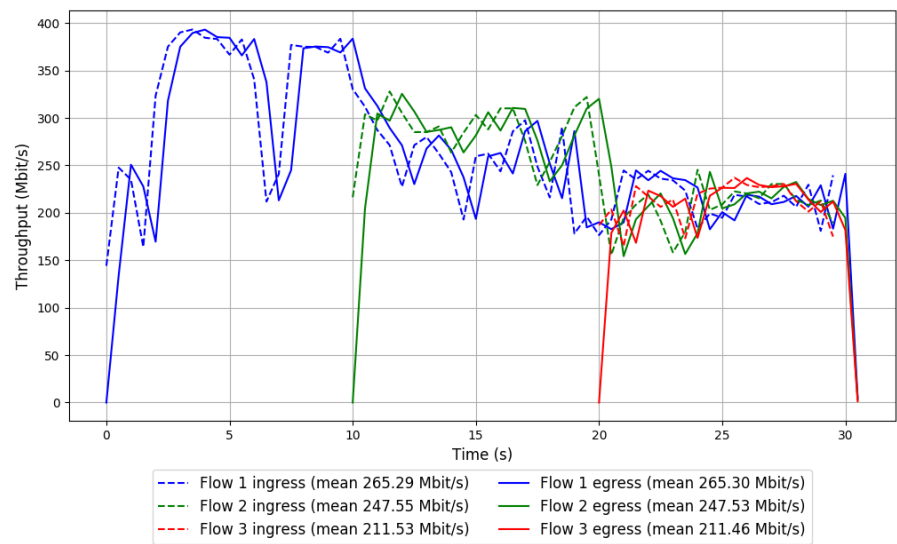
-- Flow 3:

Average throughput: 211.46 Mbit/s

95th percentile per-packet one-way delay: 23.807 ms

Loss rate: 0.04%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-07-17 20:22:57

End at: 2018-07-17 20:23:27

Local clock offset: -1.823 ms

Remote clock offset: 2.182 ms

Below is generated by plot.py at 2018-07-17 21:57:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 518.42 Mbit/s

95th percentile per-packet one-way delay: 23.006 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 282.07 Mbit/s

95th percentile per-packet one-way delay: 22.774 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 254.34 Mbit/s

95th percentile per-packet one-way delay: 23.046 ms

Loss rate: 0.00%

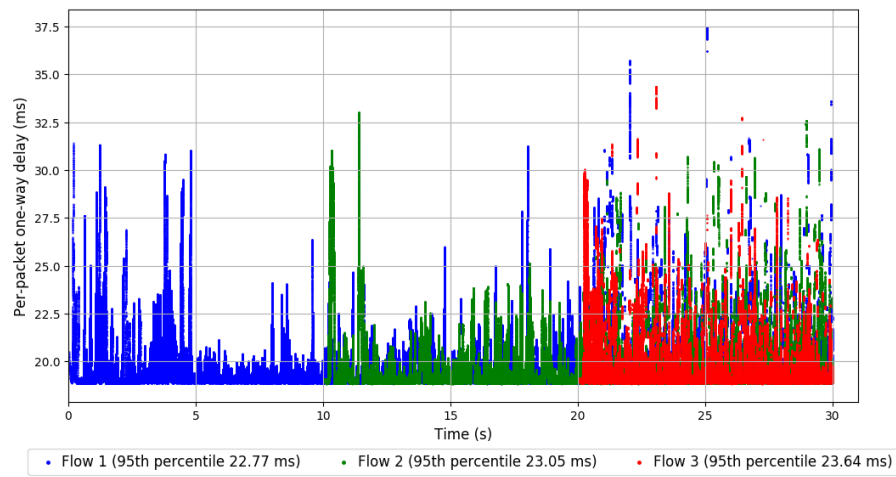
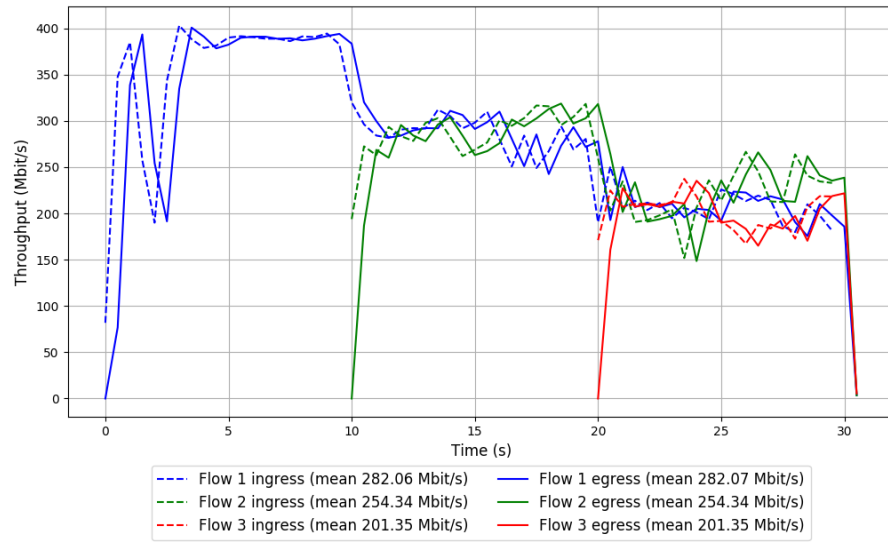
-- Flow 3:

Average throughput: 201.35 Mbit/s

95th percentile per-packet one-way delay: 23.639 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-07-17 20:50:02

End at: 2018-07-17 20:50:32

Local clock offset: -0.594 ms

Remote clock offset: 1.531 ms

Below is generated by plot.py at 2018-07-17 21:57:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 464.25 Mbit/s

95th percentile per-packet one-way delay: 22.507 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 231.33 Mbit/s

95th percentile per-packet one-way delay: 22.106 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 245.68 Mbit/s

95th percentile per-packet one-way delay: 22.321 ms

Loss rate: 0.03%

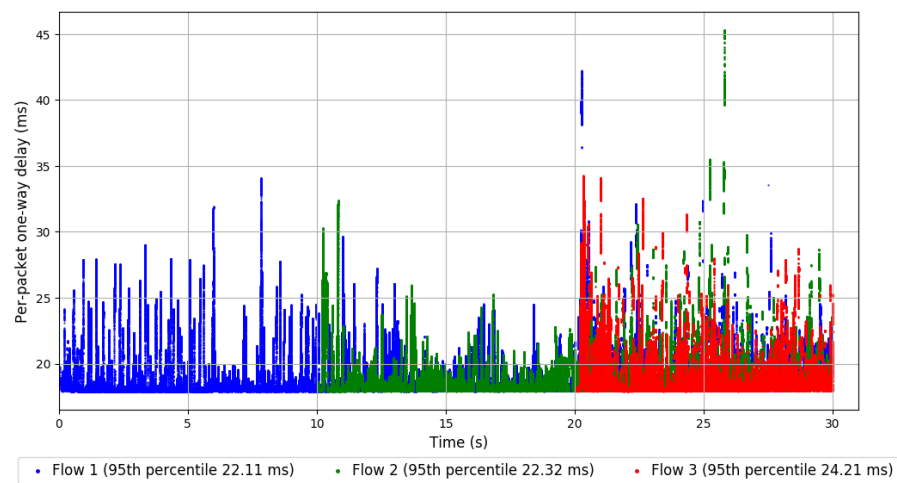
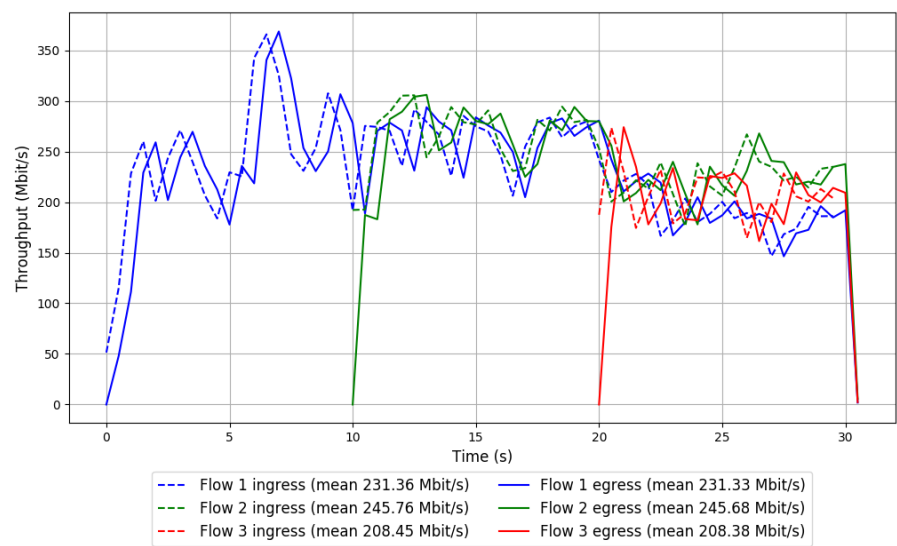
-- Flow 3:

Average throughput: 208.38 Mbit/s

95th percentile per-packet one-way delay: 24.210 ms

Loss rate: 0.03%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-07-17 17:02:34

End at: 2018-07-17 17:03:04

Local clock offset: -4.197 ms

Remote clock offset: 0.944 ms

Below is generated by plot.py at 2018-07-17 21:57:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 283.23 Mbit/s

95th percentile per-packet one-way delay: 24.119 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 109.15 Mbit/s

95th percentile per-packet one-way delay: 21.947 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 178.63 Mbit/s

95th percentile per-packet one-way delay: 24.983 ms

Loss rate: 0.08%

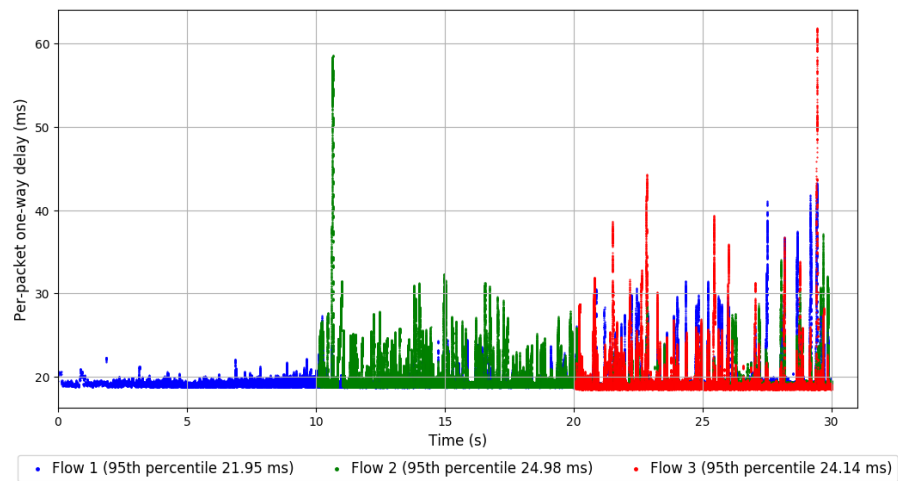
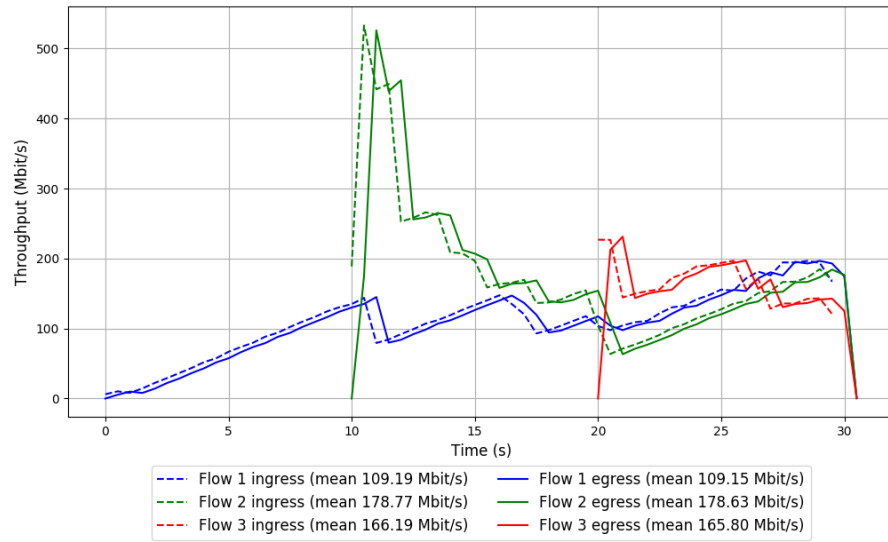
-- Flow 3:

Average throughput: 165.80 Mbit/s

95th percentile per-packet one-way delay: 24.140 ms

Loss rate: 0.23%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-07-17 17:29:54

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

Local clock offset: 0.646 ms

Remote clock offset: 1.666 ms

Below is generated by plot.py at 2018-07-17 21:57:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 310.51 Mbit/s

95th percentile per-packet one-way delay: 22.690 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 149.38 Mbit/s

95th percentile per-packet one-way delay: 21.061 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 171.05 Mbit/s

95th percentile per-packet one-way delay: 24.901 ms

Loss rate: 0.15%

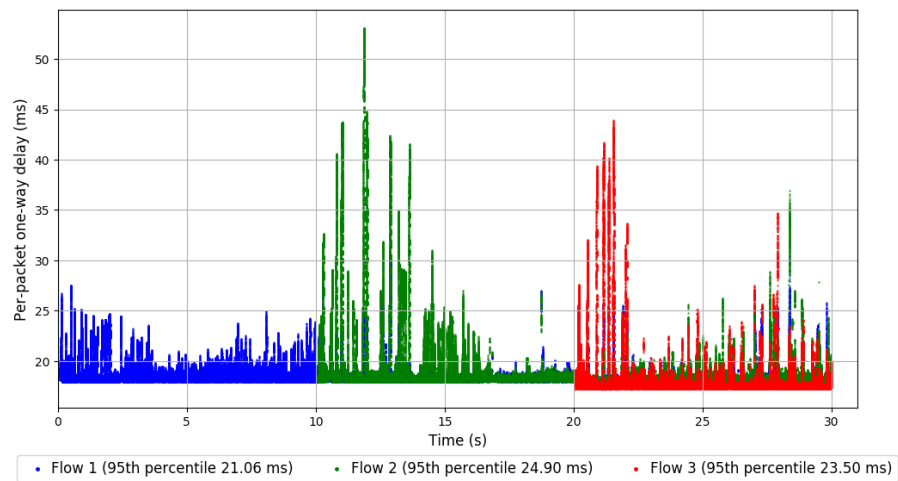
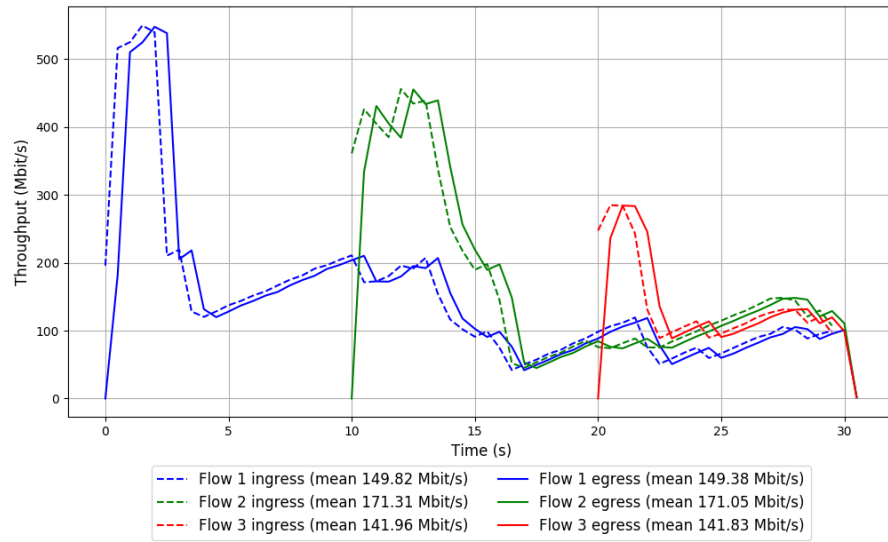
-- Flow 3:

Average throughput: 141.83 Mbit/s

95th percentile per-packet one-way delay: 23.504 ms

Loss rate: 0.10%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-07-17 17:57:22

End at: 2018-07-17 17:57:52

Local clock offset: 0.407 ms

Remote clock offset: 2.542 ms

Below is generated by plot.py at 2018-07-17 21:57:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 343.23 Mbit/s

95th percentile per-packet one-way delay: 25.833 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 127.73 Mbit/s

95th percentile per-packet one-way delay: 19.925 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 226.93 Mbit/s

95th percentile per-packet one-way delay: 28.719 ms

Loss rate: 0.12%

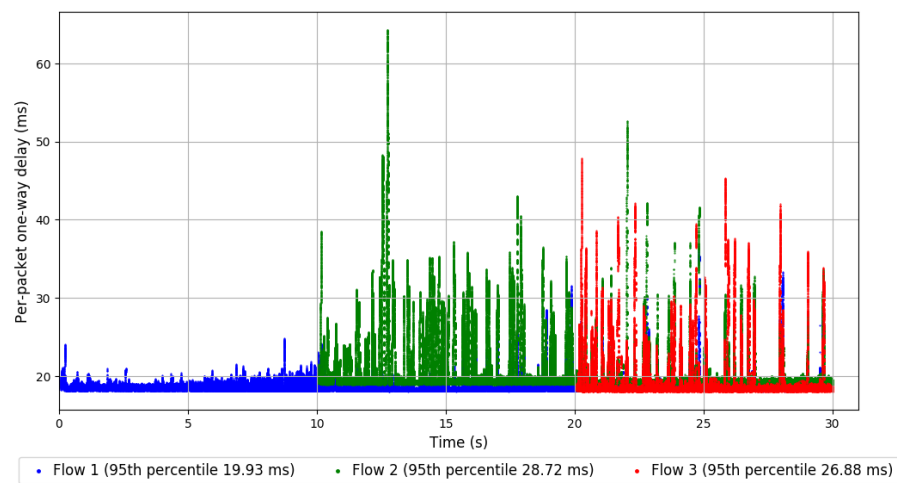
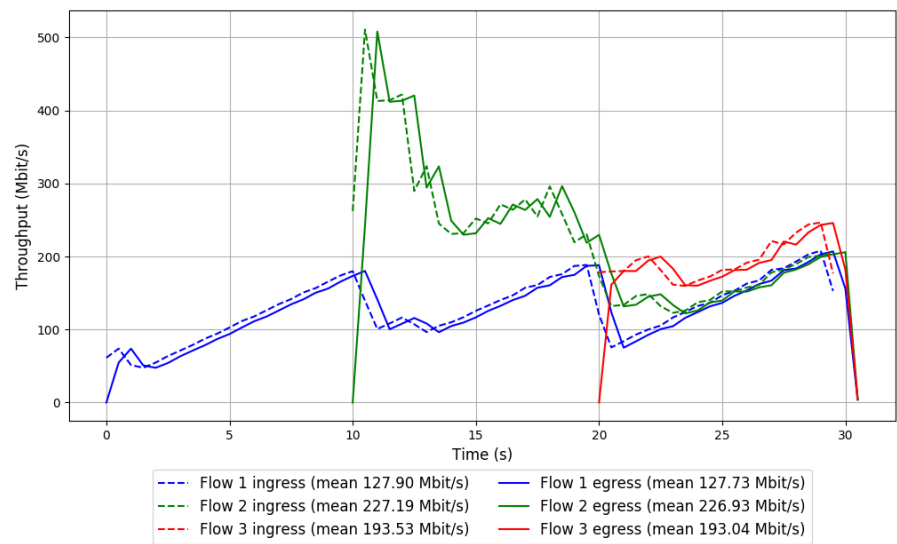
-- Flow 3:

Average throughput: 193.04 Mbit/s

95th percentile per-packet one-way delay: 26.876 ms

Loss rate: 0.25%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-07-17 18:24:32

End at: 2018-07-17 18:25:02

Local clock offset: 10.805 ms

Remote clock offset: 3.159 ms

Below is generated by plot.py at 2018-07-17 21:57:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 296.16 Mbit/s

95th percentile per-packet one-way delay: 25.356 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 121.47 Mbit/s

95th percentile per-packet one-way delay: 21.604 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 129.67 Mbit/s

95th percentile per-packet one-way delay: 30.533 ms

Loss rate: 0.28%

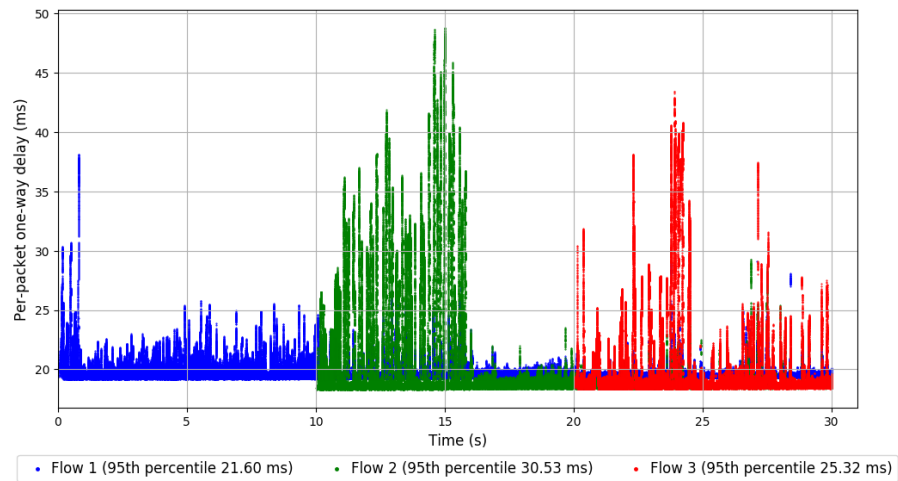
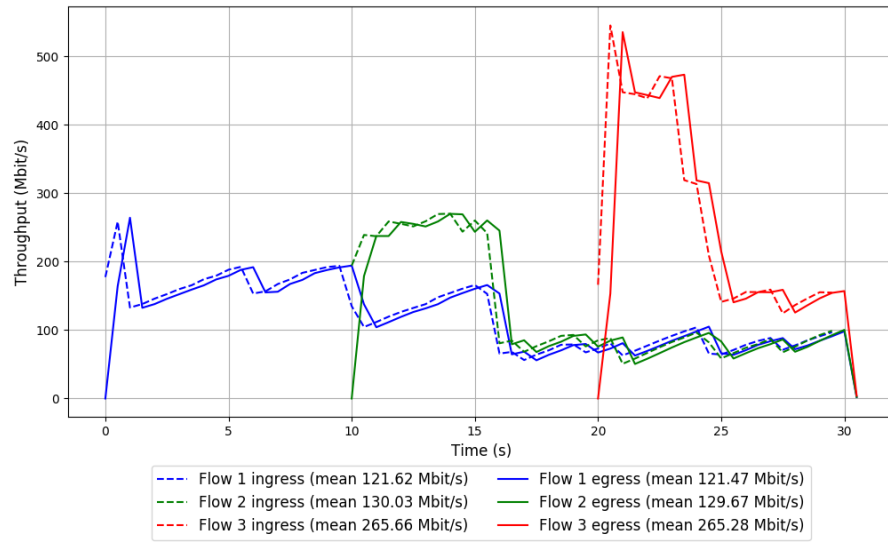
-- Flow 3:

Average throughput: 265.28 Mbit/s

95th percentile per-packet one-way delay: 25.315 ms

Loss rate: 0.14%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-07-17 18:51:45

End at: 2018-07-17 18:52:15

Local clock offset: 16.96 ms

Remote clock offset: 3.404 ms

Below is generated by plot.py at 2018-07-17 21:57:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 355.89 Mbit/s

95th percentile per-packet one-way delay: 21.843 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 175.80 Mbit/s

95th percentile per-packet one-way delay: 22.336 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 119.40 Mbit/s

95th percentile per-packet one-way delay: 21.702 ms

Loss rate: 0.08%

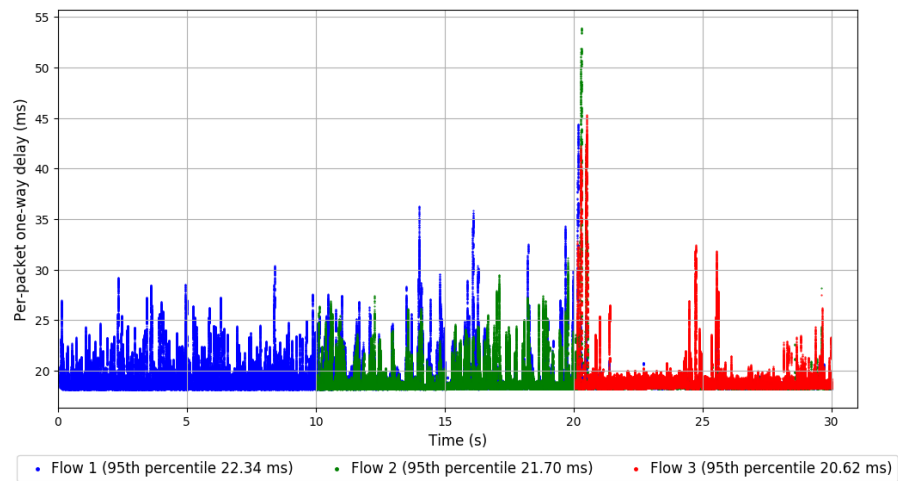
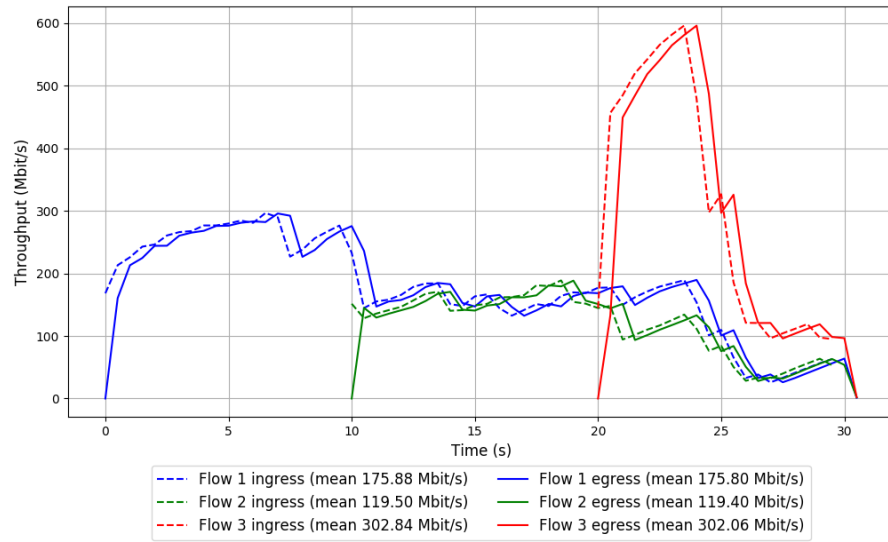
-- Flow 3:

Average throughput: 302.06 Mbit/s

95th percentile per-packet one-way delay: 20.625 ms

Loss rate: 0.26%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-07-17 19:18:50

End at: 2018-07-17 19:19:20

Local clock offset: 4.169 ms

Remote clock offset: 3.165 ms

Below is generated by plot.py at 2018-07-17 21:57:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 328.48 Mbit/s

95th percentile per-packet one-way delay: 23.116 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 145.44 Mbit/s

95th percentile per-packet one-way delay: 20.210 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 209.15 Mbit/s

95th percentile per-packet one-way delay: 25.153 ms

Loss rate: 0.09%

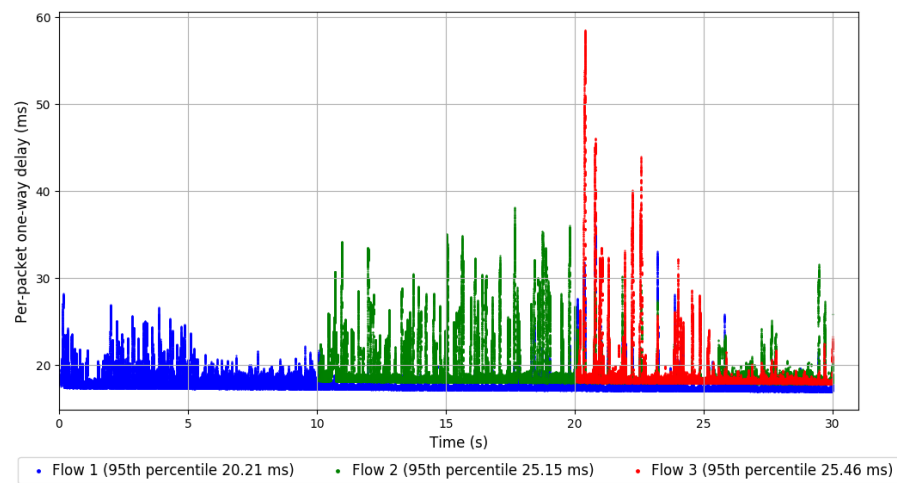
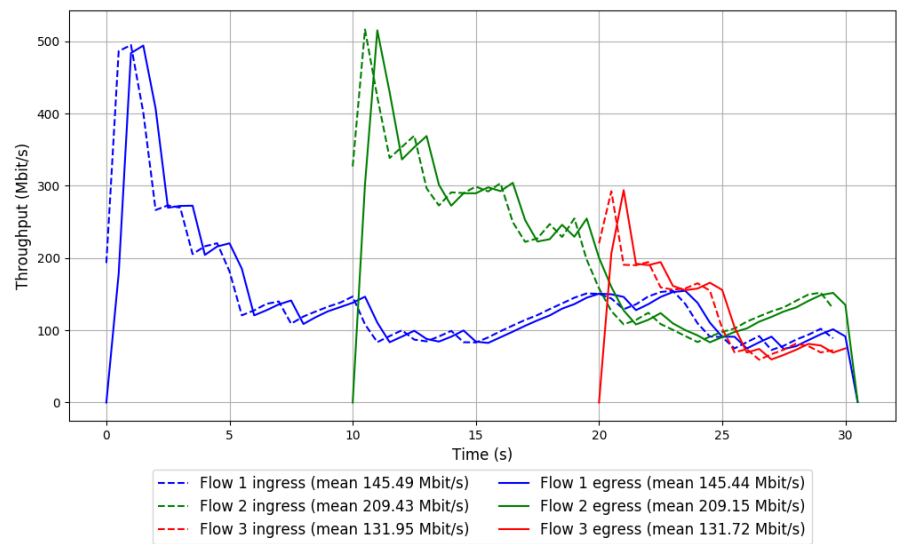
-- Flow 3:

Average throughput: 131.72 Mbit/s

95th percentile per-packet one-way delay: 25.463 ms

Loss rate: 0.14%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-07-17 19:45:52

End at: 2018-07-17 19:46:22

Local clock offset: -3.27 ms

Remote clock offset: 2.757 ms

Below is generated by plot.py at 2018-07-17 21:57:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 372.83 Mbit/s

95th percentile per-packet one-way delay: 24.248 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 145.35 Mbit/s

95th percentile per-packet one-way delay: 22.192 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 161.51 Mbit/s

95th percentile per-packet one-way delay: 21.839 ms

Loss rate: 0.15%

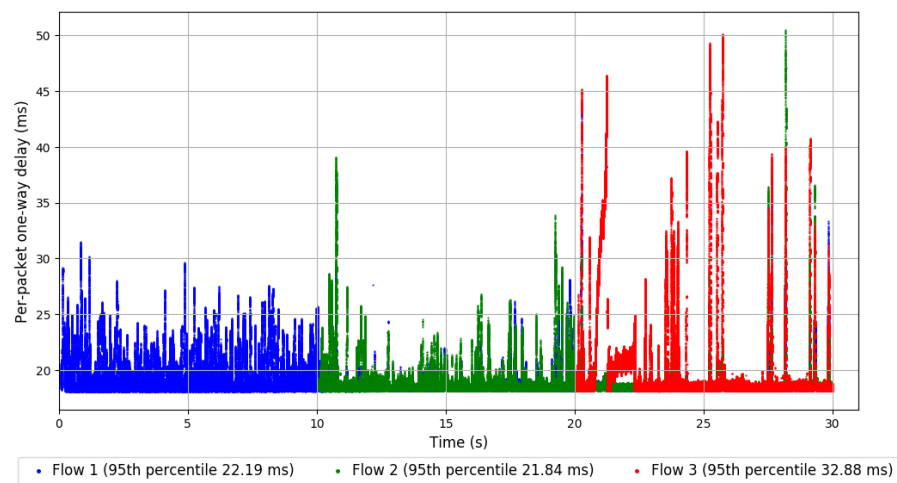
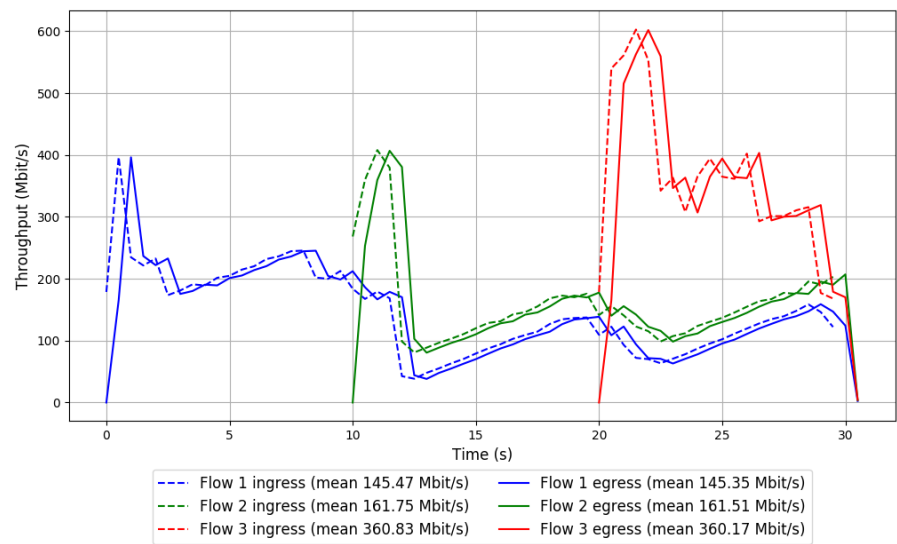
-- Flow 3:

Average throughput: 360.17 Mbit/s

95th percentile per-packet one-way delay: 32.875 ms

Loss rate: 0.18%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-07-17 20:13:10

End at: 2018-07-17 20:13:40

Local clock offset: -2.787 ms

Remote clock offset: 2.366 ms

Below is generated by plot.py at 2018-07-17 21:57:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 411.21 Mbit/s

95th percentile per-packet one-way delay: 23.452 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 167.00 Mbit/s

95th percentile per-packet one-way delay: 23.762 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 118.43 Mbit/s

95th percentile per-packet one-way delay: 24.732 ms

Loss rate: 0.14%

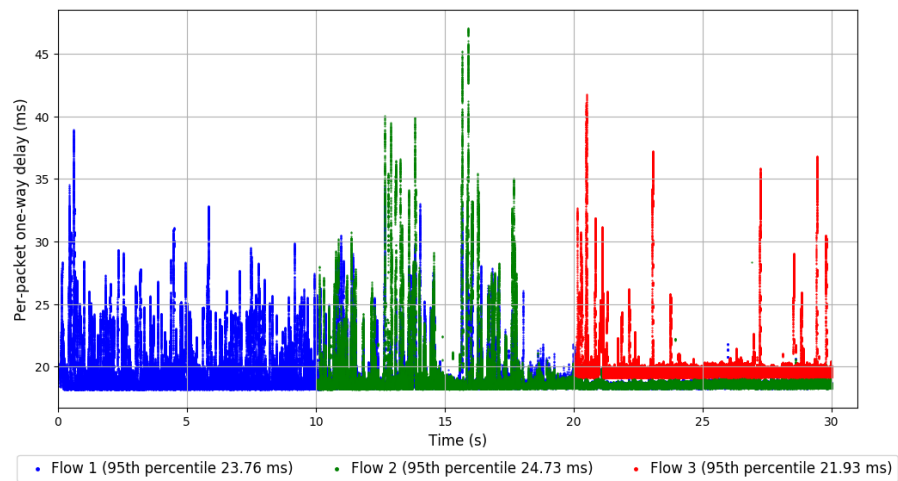
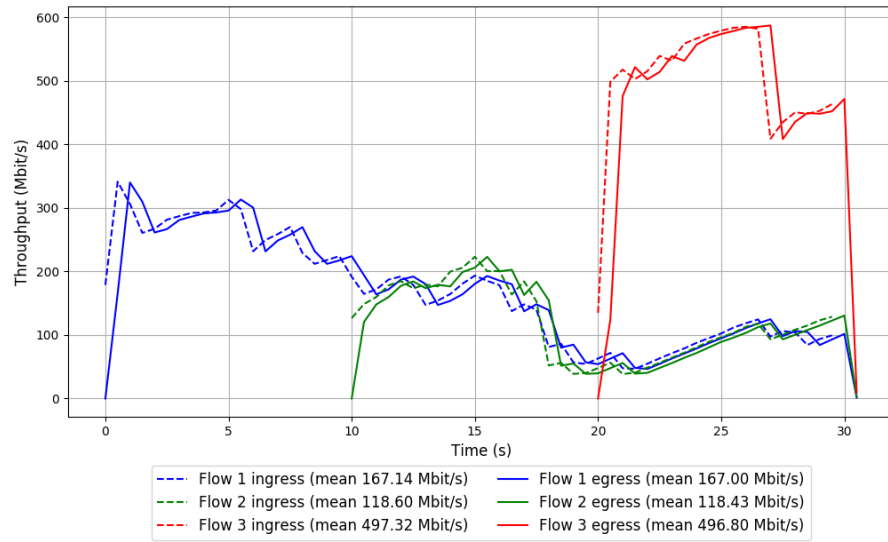
-- Flow 3:

Average throughput: 496.80 Mbit/s

95th percentile per-packet one-way delay: 21.934 ms

Loss rate: 0.12%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-07-17 20:40:31

End at: 2018-07-17 20:41:01

Local clock offset: -2.135 ms

Remote clock offset: 1.887 ms

Below is generated by plot.py at 2018-07-17 21:57:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 245.06 Mbit/s

95th percentile per-packet one-way delay: 24.263 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 145.62 Mbit/s

95th percentile per-packet one-way delay: 23.539 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 114.56 Mbit/s

95th percentile per-packet one-way delay: 26.274 ms

Loss rate: 0.23%

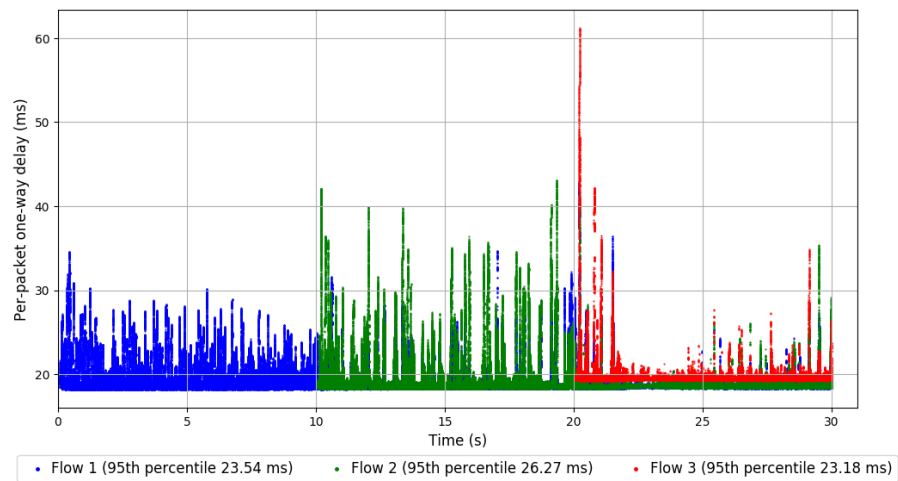
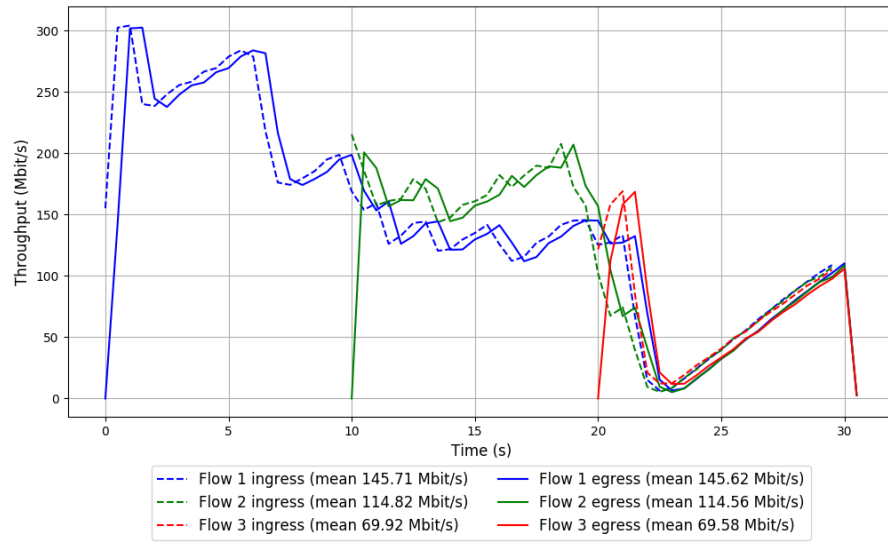
-- Flow 3:

Average throughput: 69.58 Mbit/s

95th percentile per-packet one-way delay: 23.176 ms

Loss rate: 0.49%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-07-17 21:07:26

End at: 2018-07-17 21:07:56

Local clock offset: -0.426 ms

Remote clock offset: 1.227 ms

Below is generated by plot.py at 2018-07-17 21:58:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 438.08 Mbit/s

95th percentile per-packet one-way delay: 23.812 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 224.41 Mbit/s

95th percentile per-packet one-way delay: 24.164 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 178.90 Mbit/s

95th percentile per-packet one-way delay: 22.793 ms

Loss rate: 0.01%

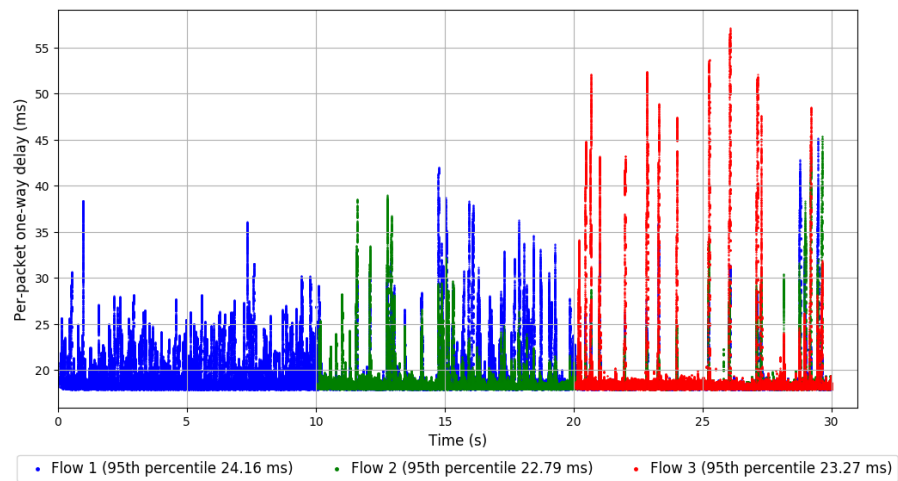
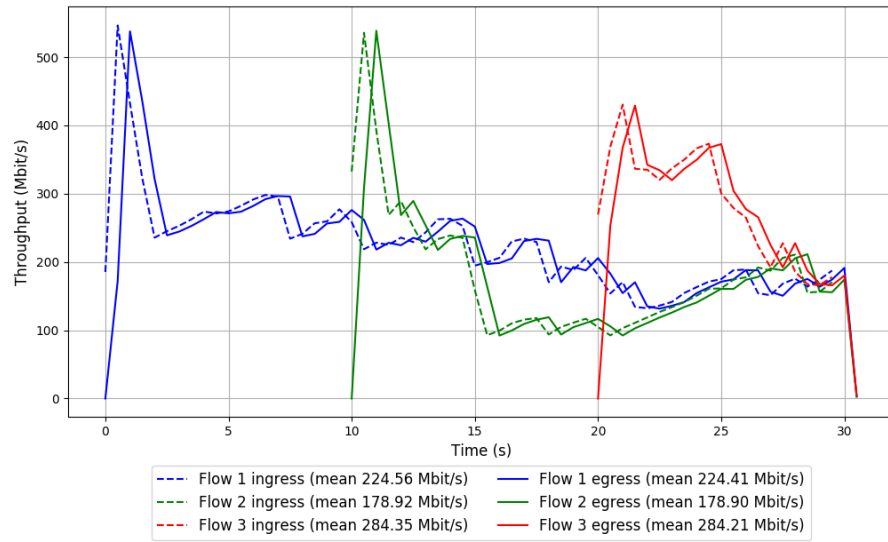
-- Flow 3:

Average throughput: 284.21 Mbit/s

95th percentile per-packet one-way delay: 23.273 ms

Loss rate: 0.04%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-07-17 16:46:52

End at: 2018-07-17 16:47:22

Local clock offset: -2.9 ms

Remote clock offset: 0.612 ms

Below is generated by plot.py at 2018-07-17 22:06:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 827.58 Mbit/s

95th percentile per-packet one-way delay: 81.143 ms

Loss rate: 15.85%

-- Flow 1:

Average throughput: 526.04 Mbit/s

95th percentile per-packet one-way delay: 87.383 ms

Loss rate: 12.40%

-- Flow 2:

Average throughput: 361.15 Mbit/s

95th percentile per-packet one-way delay: 67.390 ms

Loss rate: 20.50%

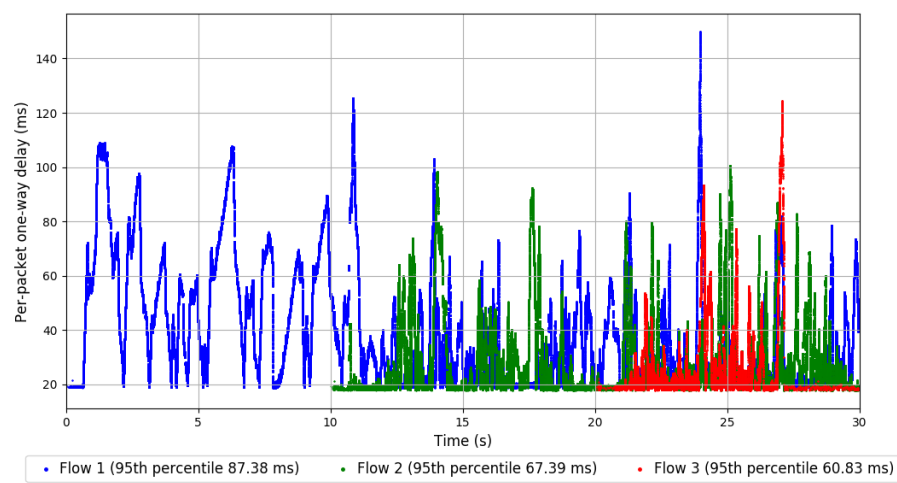
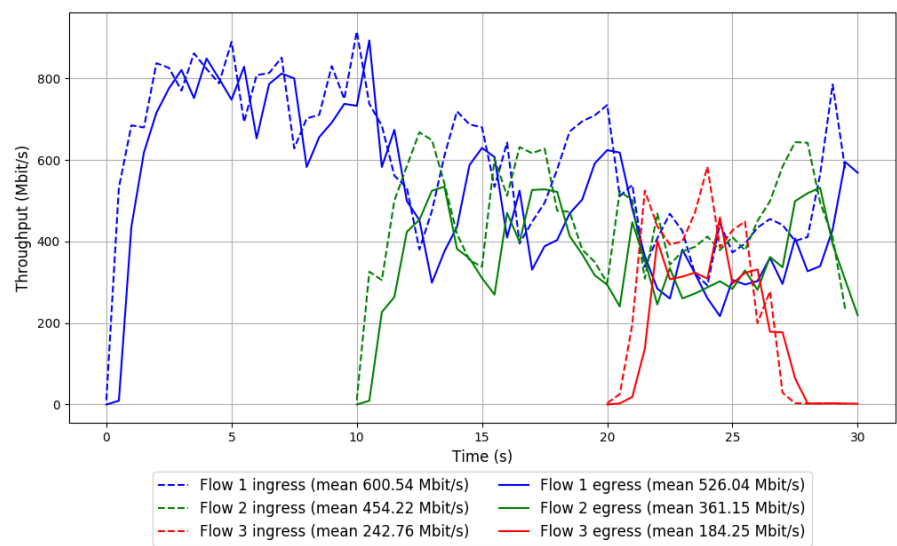
-- Flow 3:

Average throughput: 184.25 Mbit/s

95th percentile per-packet one-way delay: 60.826 ms

Loss rate: 24.11%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-07-17 17:14:11

End at: 2018-07-17 17:14:41

Local clock offset: -2.319 ms

Remote clock offset: 1.246 ms

Below is generated by plot.py at 2018-07-17 22:06:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 812.06 Mbit/s

95th percentile per-packet one-way delay: 105.949 ms

Loss rate: 16.39%

-- Flow 1:

Average throughput: 508.20 Mbit/s

95th percentile per-packet one-way delay: 103.562 ms

Loss rate: 12.44%

-- Flow 2:

Average throughput: 307.75 Mbit/s

95th percentile per-packet one-way delay: 128.373 ms

Loss rate: 21.64%

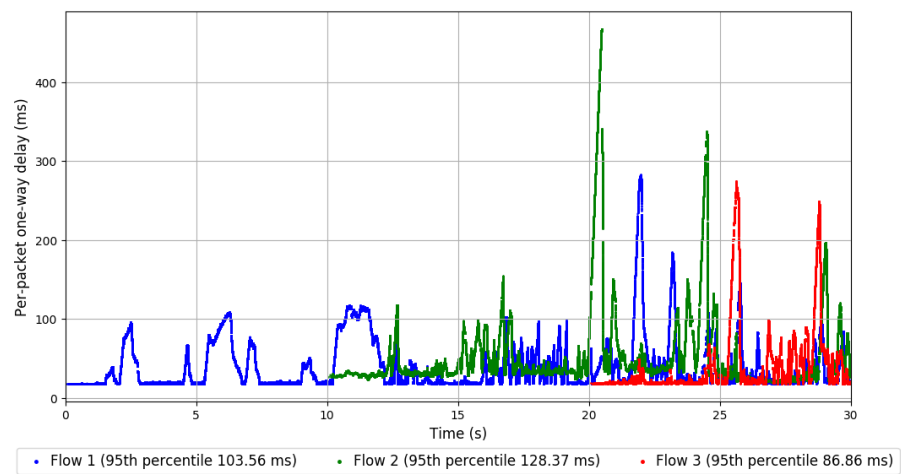
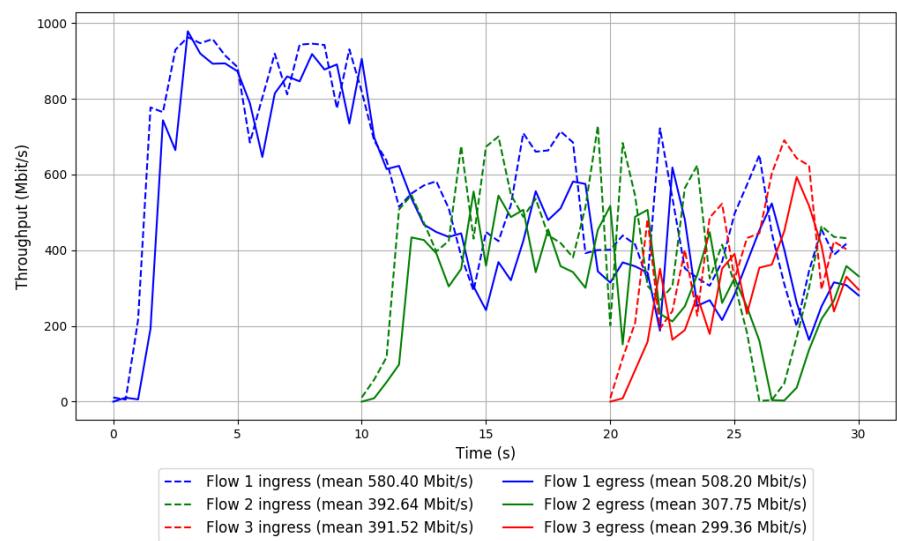
-- Flow 3:

Average throughput: 299.36 Mbit/s

95th percentile per-packet one-way delay: 86.858 ms

Loss rate: 23.54%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-07-17 17:41:33

End at: 2018-07-17 17:42:03

Local clock offset: 0.923 ms

Remote clock offset: 2.002 ms

Below is generated by plot.py at 2018-07-17 22:07:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 821.52 Mbit/s

95th percentile per-packet one-way delay: 105.928 ms

Loss rate: 15.08%

-- Flow 1:

Average throughput: 537.71 Mbit/s

95th percentile per-packet one-way delay: 104.810 ms

Loss rate: 12.28%

-- Flow 2:

Average throughput: 249.53 Mbit/s

95th percentile per-packet one-way delay: 107.877 ms

Loss rate: 18.29%

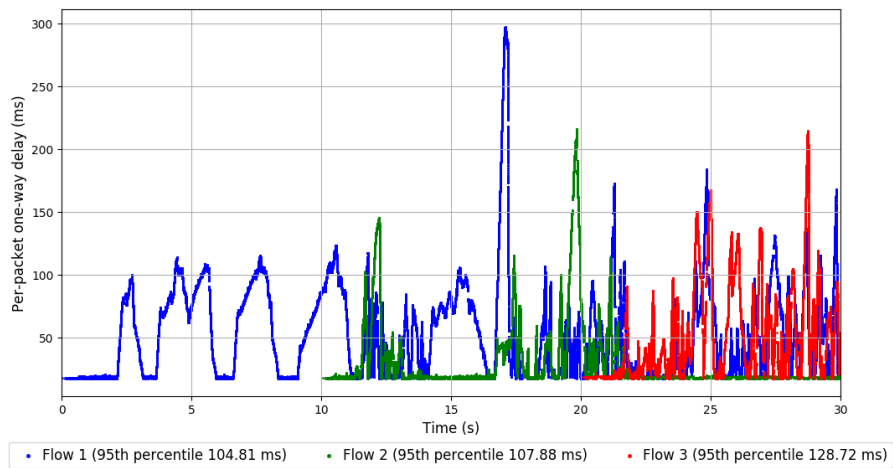
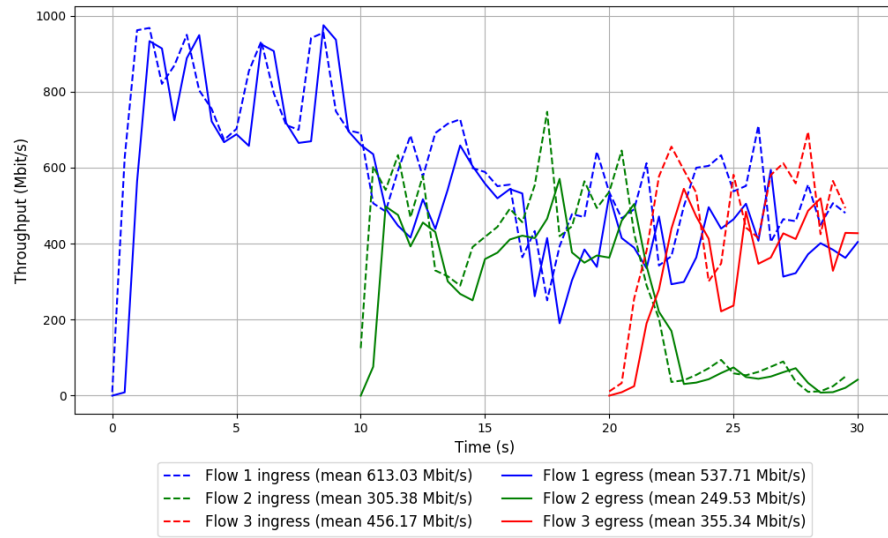
-- Flow 3:

Average throughput: 355.34 Mbit/s

95th percentile per-packet one-way delay: 128.719 ms

Loss rate: 22.11%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-07-17 18:08:49

End at: 2018-07-17 18:09:19

Local clock offset: 0.64 ms

Remote clock offset: 2.747 ms

Below is generated by plot.py at 2018-07-17 22:07:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 772.73 Mbit/s

95th percentile per-packet one-way delay: 120.341 ms

Loss rate: 17.18%

-- Flow 1:

Average throughput: 458.34 Mbit/s

95th percentile per-packet one-way delay: 107.966 ms

Loss rate: 12.70%

-- Flow 2:

Average throughput: 315.31 Mbit/s

95th percentile per-packet one-way delay: 151.462 ms

Loss rate: 22.31%

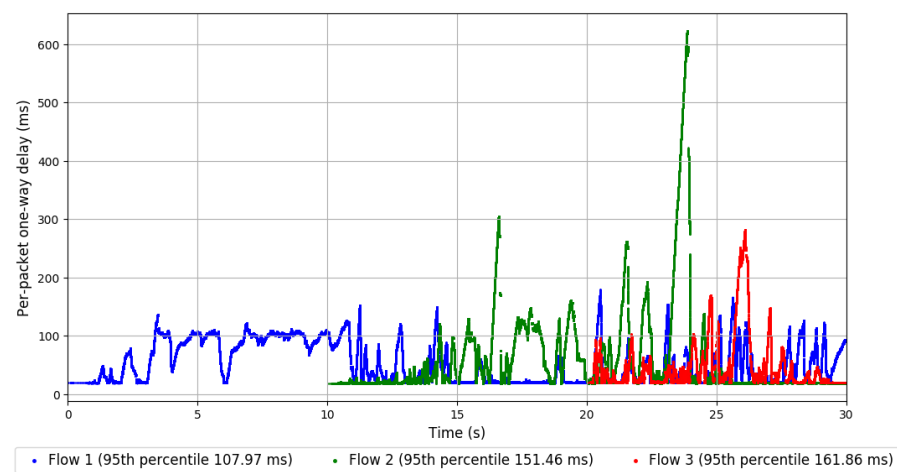
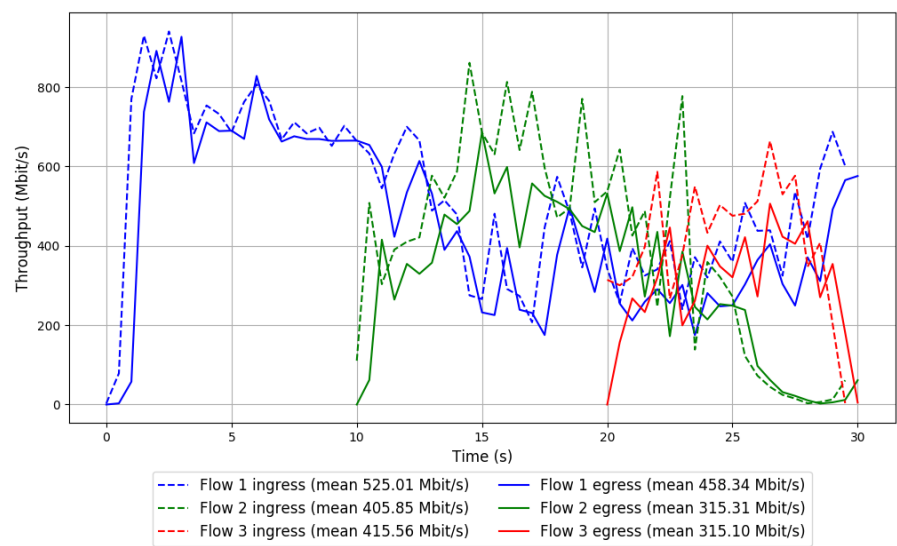
-- Flow 3:

Average throughput: 315.10 Mbit/s

95th percentile per-packet one-way delay: 161.862 ms

Loss rate: 24.18%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-07-17 18:36:02

End at: 2018-07-17 18:36:32

Local clock offset: 13.933 ms

Remote clock offset: 3.291 ms

Below is generated by plot.py at 2018-07-17 22:08:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 799.24 Mbit/s

95th percentile per-packet one-way delay: 112.598 ms

Loss rate: 15.30%

-- Flow 1:

Average throughput: 460.01 Mbit/s

95th percentile per-packet one-way delay: 106.377 ms

Loss rate: 12.02%

-- Flow 2:

Average throughput: 427.44 Mbit/s

95th percentile per-packet one-way delay: 135.948 ms

Loss rate: 18.47%

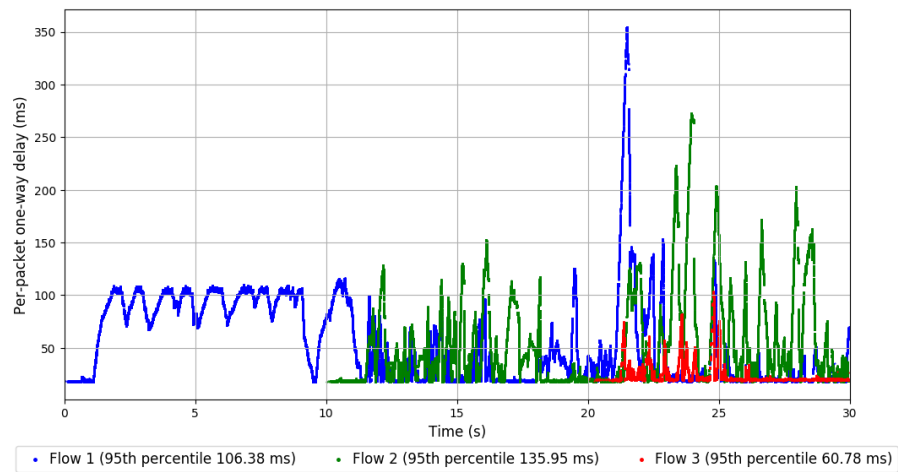
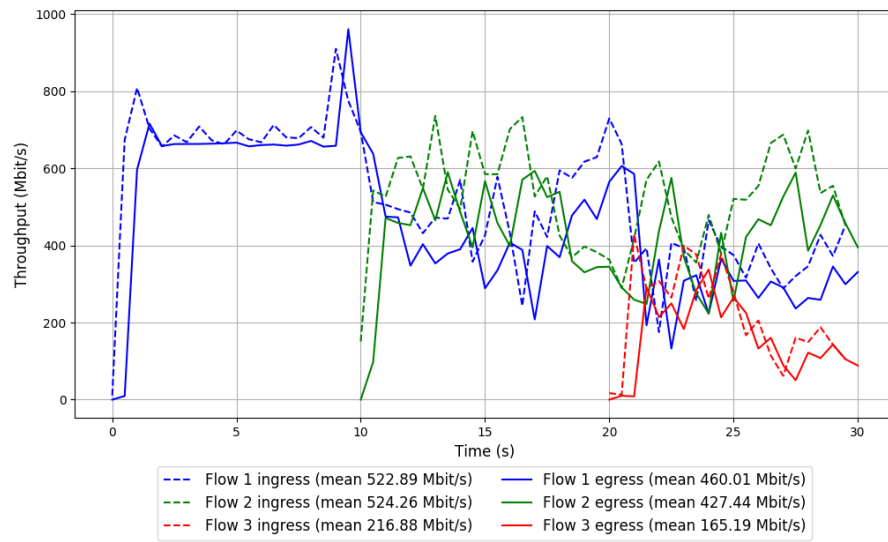
-- Flow 3:

Average throughput: 165.19 Mbit/s

95th percentile per-packet one-way delay: 60.784 ms

Loss rate: 23.79%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-07-17 19:03:09

End at: 2018-07-17 19:03:39

Local clock offset: 17.993 ms

Remote clock offset: 3.278 ms

Below is generated by plot.py at 2018-07-17 22:08:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 790.40 Mbit/s

95th percentile per-packet one-way delay: 114.213 ms

Loss rate: 15.33%

-- Flow 1:

Average throughput: 396.03 Mbit/s

95th percentile per-packet one-way delay: 108.750 ms

Loss rate: 11.75%

-- Flow 2:

Average throughput: 427.92 Mbit/s

95th percentile per-packet one-way delay: 108.526 ms

Loss rate: 17.43%

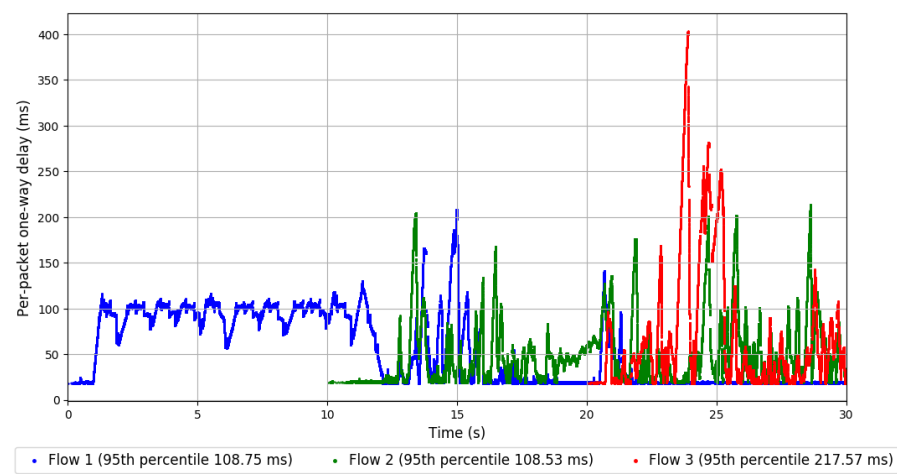
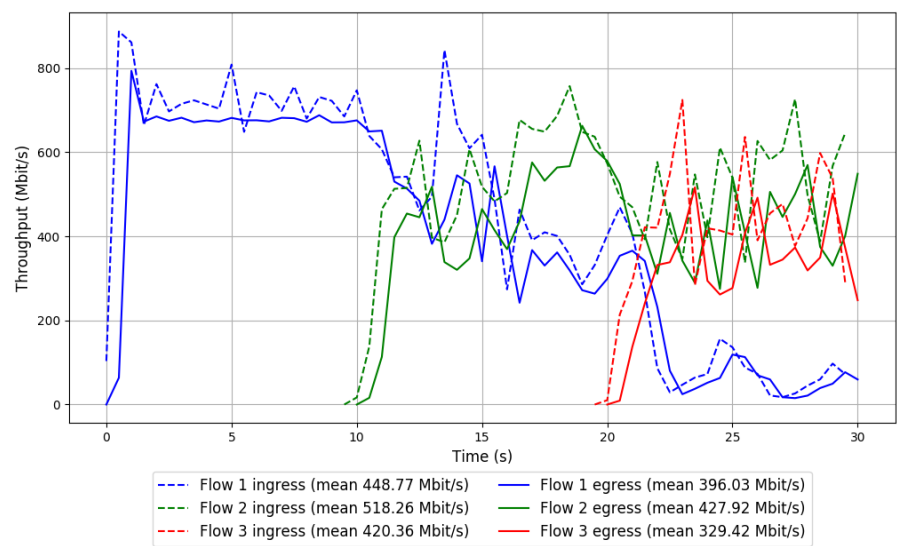
-- Flow 3:

Average throughput: 329.42 Mbit/s

95th percentile per-packet one-way delay: 217.575 ms

Loss rate: 21.64%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-07-17 19:30:05

End at: 2018-07-17 19:30:35

Local clock offset: -3.011 ms

Remote clock offset: 3.067 ms

Below is generated by plot.py at 2018-07-17 22:09:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 776.49 Mbit/s

95th percentile per-packet one-way delay: 108.237 ms

Loss rate: 18.13%

-- Flow 1:

Average throughput: 462.32 Mbit/s

95th percentile per-packet one-way delay: 105.468 ms

Loss rate: 14.07%

-- Flow 2:

Average throughput: 351.19 Mbit/s

95th percentile per-packet one-way delay: 113.450 ms

Loss rate: 22.81%

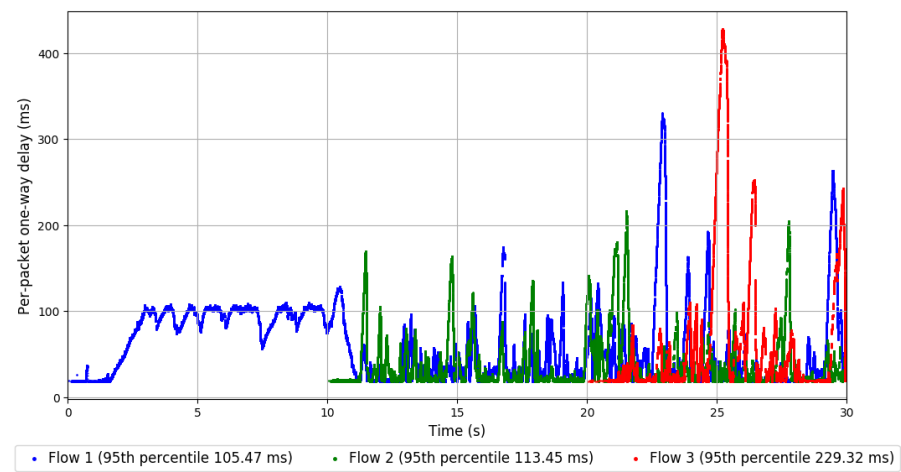
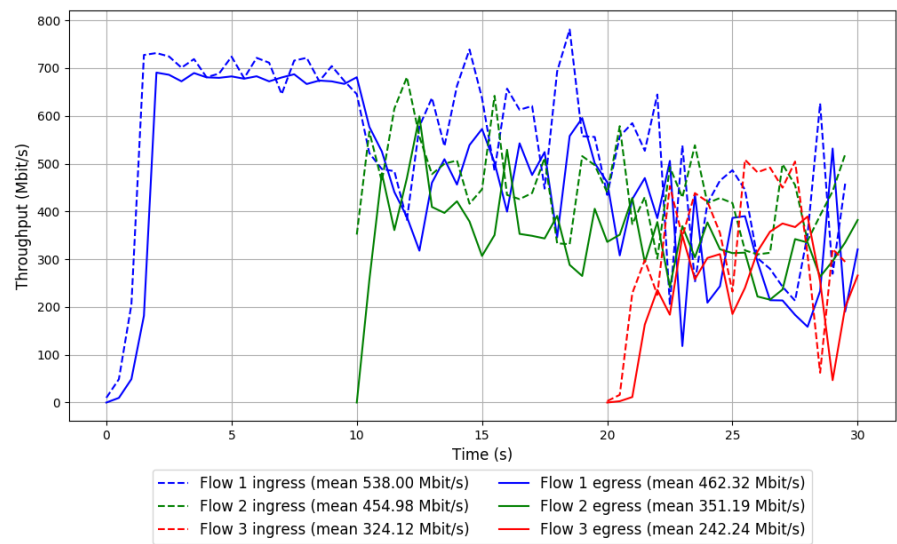
-- Flow 3:

Average throughput: 242.24 Mbit/s

95th percentile per-packet one-way delay: 229.319 ms

Loss rate: 25.25%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-07-17 19:57:23

End at: 2018-07-17 19:57:53

Local clock offset: -2.594 ms

Remote clock offset: 2.669 ms

Below is generated by plot.py at 2018-07-17 22:10:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 788.73 Mbit/s

95th percentile per-packet one-way delay: 119.564 ms

Loss rate: 15.68%

-- Flow 1:

Average throughput: 487.23 Mbit/s

95th percentile per-packet one-way delay: 106.696 ms

Loss rate: 13.13%

-- Flow 2:

Average throughput: 436.38 Mbit/s

95th percentile per-packet one-way delay: 148.197 ms

Loss rate: 19.56%

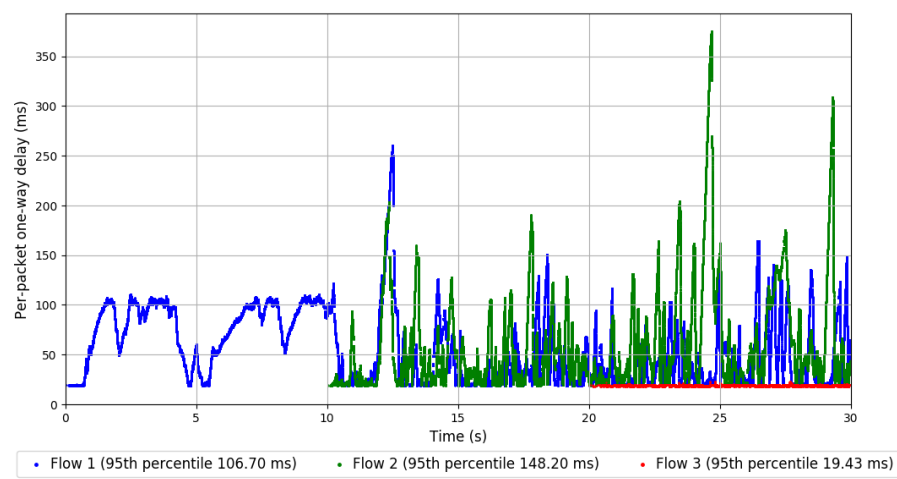
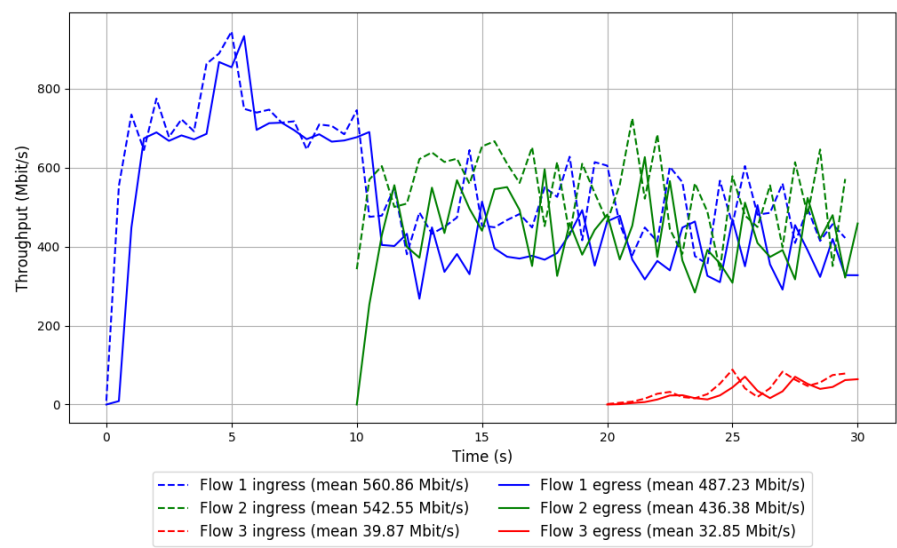
-- Flow 3:

Average throughput: 32.85 Mbit/s

95th percentile per-packet one-way delay: 19.427 ms

Loss rate: 17.61%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-07-17 20:24:47

End at: 2018-07-17 20:25:17

Local clock offset: -1.906 ms

Remote clock offset: 2.212 ms

Below is generated by plot.py at 2018-07-17 22:19:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 799.93 Mbit/s

95th percentile per-packet one-way delay: 128.001 ms

Loss rate: 17.01%

-- Flow 1:

Average throughput: 486.79 Mbit/s

95th percentile per-packet one-way delay: 110.396 ms

Loss rate: 12.64%

-- Flow 2:

Average throughput: 330.84 Mbit/s

95th percentile per-packet one-way delay: 150.034 ms

Loss rate: 21.87%

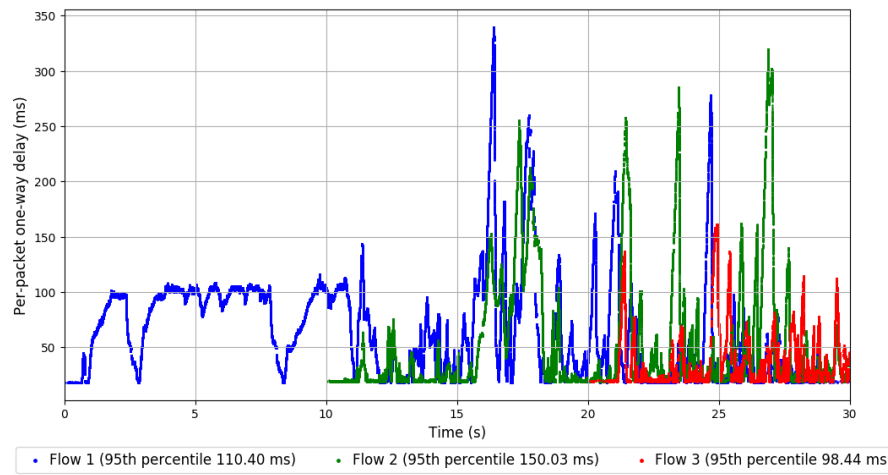
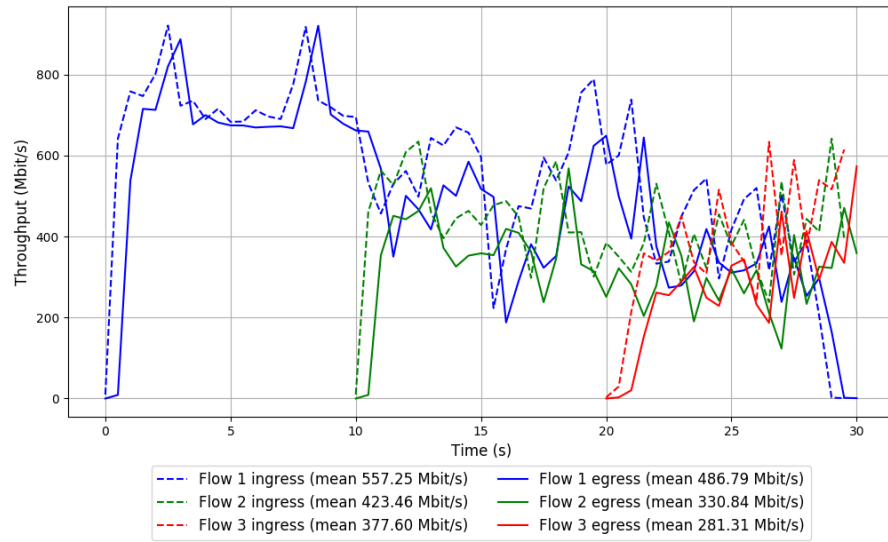
-- Flow 3:

Average throughput: 281.31 Mbit/s

95th percentile per-packet one-way delay: 98.439 ms

Loss rate: 25.49%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-07-17 20:51:48

End at: 2018-07-17 20:52:18

Local clock offset: -0.481 ms

Remote clock offset: 1.585 ms

Below is generated by plot.py at 2018-07-17 22:19:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 776.14 Mbit/s

95th percentile per-packet one-way delay: 108.344 ms

Loss rate: 12.11%

-- Flow 1:

Average throughput: 554.79 Mbit/s

95th percentile per-packet one-way delay: 108.476 ms

Loss rate: 9.93%

-- Flow 2:

Average throughput: 191.64 Mbit/s

95th percentile per-packet one-way delay: 82.354 ms

Loss rate: 16.04%

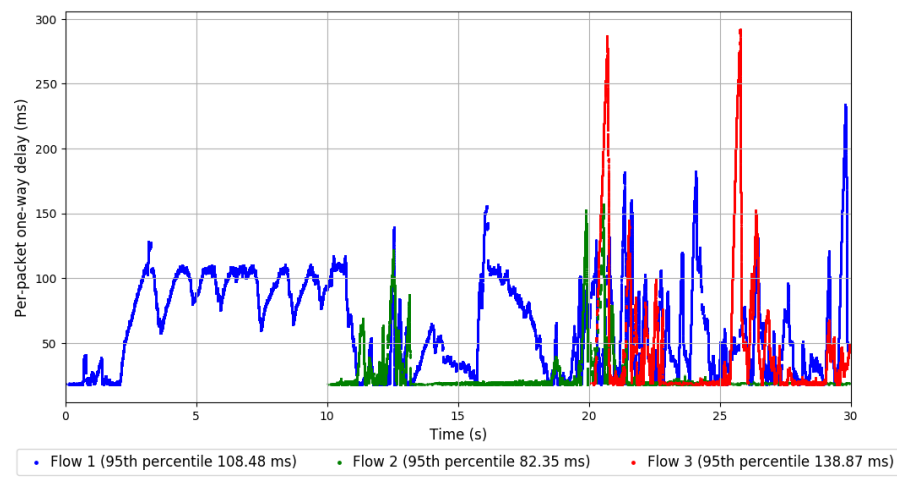
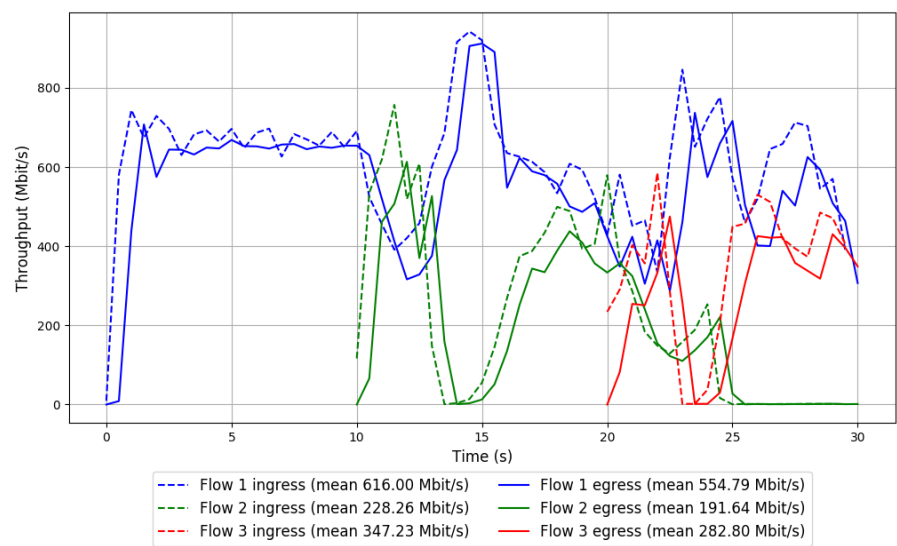
-- Flow 3:

Average throughput: 282.80 Mbit/s

95th percentile per-packet one-way delay: 138.868 ms

Loss rate: 18.55%

Run 10: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2018-07-17 16:43:18

End at: 2018-07-17 16:43:48

Local clock offset: -2.283 ms

Remote clock offset: 0.515 ms

Below is generated by plot.py at 2018-07-17 22:19:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 796.93 Mbit/s

95th percentile per-packet one-way delay: 62.651 ms

Loss rate: 12.54%

-- Flow 1:

Average throughput: 671.59 Mbit/s

95th percentile per-packet one-way delay: 62.985 ms

Loss rate: 9.62%

-- Flow 2:

Average throughput: 155.28 Mbit/s

95th percentile per-packet one-way delay: 60.112 ms

Loss rate: 22.85%

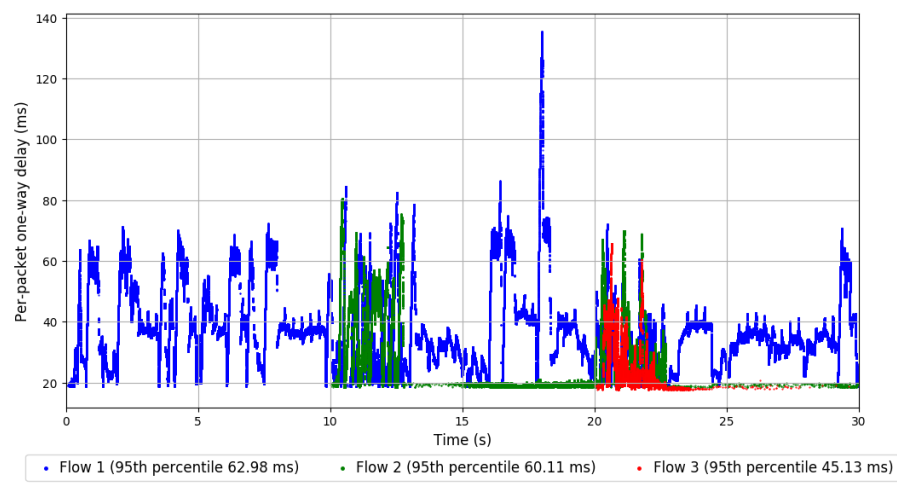
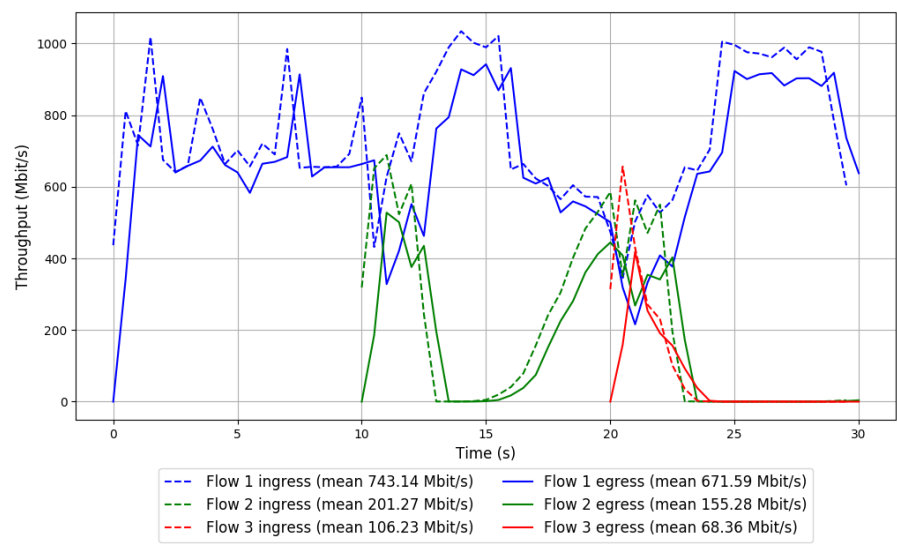
-- Flow 3:

Average throughput: 68.36 Mbit/s

95th percentile per-packet one-way delay: 45.130 ms

Loss rate: 35.65%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-07-17 17:10:33

End at: 2018-07-17 17:11:03

Local clock offset: -4.01 ms

Remote clock offset: 1.163 ms

Below is generated by plot.py at 2018-07-17 22:20:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 815.55 Mbit/s

95th percentile per-packet one-way delay: 72.065 ms

Loss rate: 18.93%

-- Flow 1:

Average throughput: 581.69 Mbit/s

95th percentile per-packet one-way delay: 73.169 ms

Loss rate: 15.64%

-- Flow 2:

Average throughput: 148.31 Mbit/s

95th percentile per-packet one-way delay: 70.562 ms

Loss rate: 30.41%

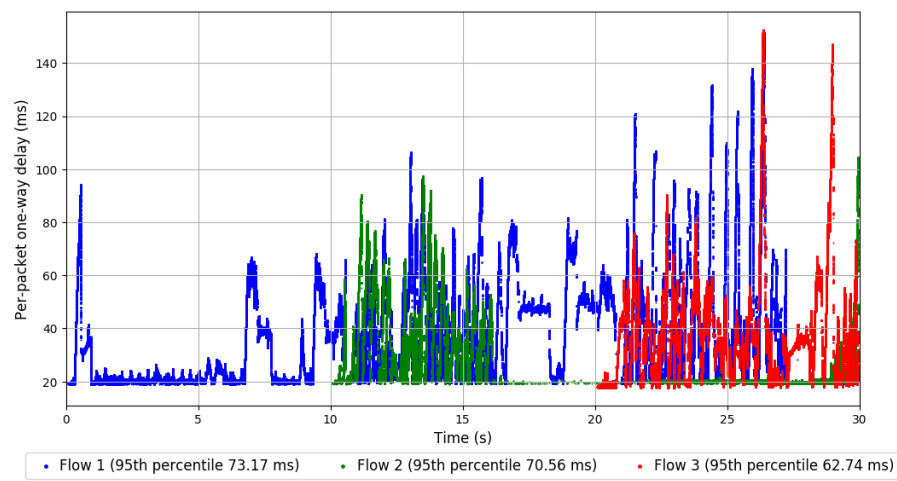
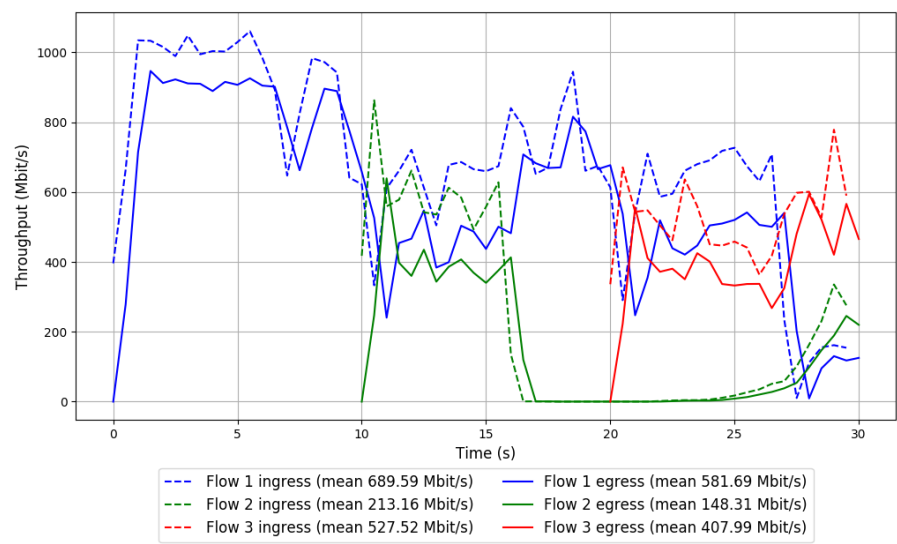
-- Flow 3:

Average throughput: 407.99 Mbit/s

95th percentile per-packet one-way delay: 62.738 ms

Loss rate: 22.60%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2018-07-17 17:37:49

End at: 2018-07-17 17:38:19

Local clock offset: 1.151 ms

Remote clock offset: 1.964 ms

Below is generated by plot.py at 2018-07-17 22:21:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 882.54 Mbit/s

95th percentile per-packet one-way delay: 68.902 ms

Loss rate: 23.65%

-- Flow 1:

Average throughput: 572.00 Mbit/s

95th percentile per-packet one-way delay: 67.391 ms

Loss rate: 20.33%

-- Flow 2:

Average throughput: 294.25 Mbit/s

95th percentile per-packet one-way delay: 73.025 ms

Loss rate: 28.97%

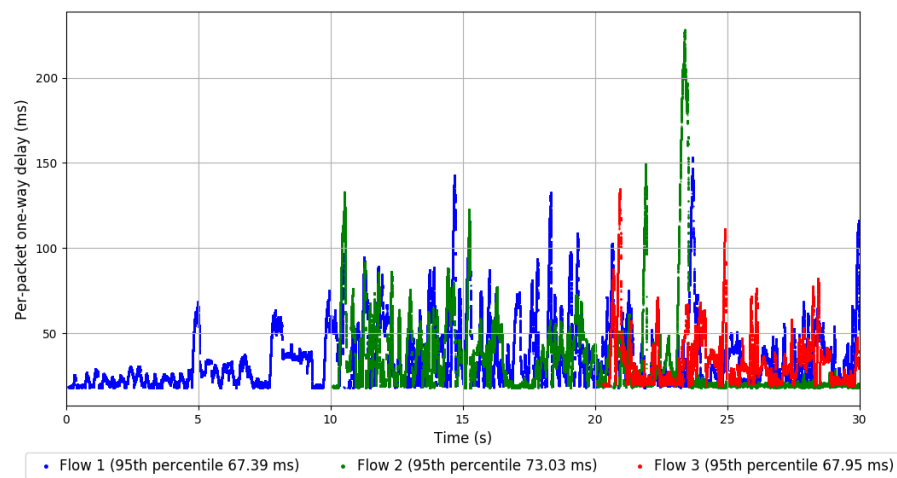
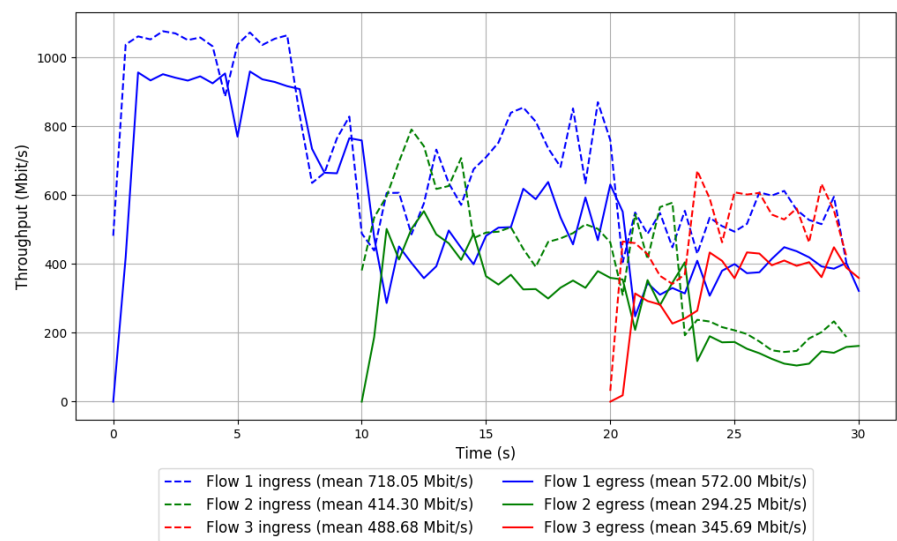
-- Flow 3:

Average throughput: 345.69 Mbit/s

95th percentile per-packet one-way delay: 67.946 ms

Loss rate: 29.26%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2018-07-17 18:05:18

End at: 2018-07-17 18:05:48

Local clock offset: 0.556 ms

Remote clock offset: 2.744 ms

Below is generated by plot.py at 2018-07-17 22:21:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 621.20 Mbit/s

95th percentile per-packet one-way delay: 61.011 ms

Loss rate: 15.11%

-- Flow 1:

Average throughput: 385.77 Mbit/s

95th percentile per-packet one-way delay: 59.791 ms

Loss rate: 13.22%

-- Flow 2:

Average throughput: 283.01 Mbit/s

95th percentile per-packet one-way delay: 68.348 ms

Loss rate: 18.30%

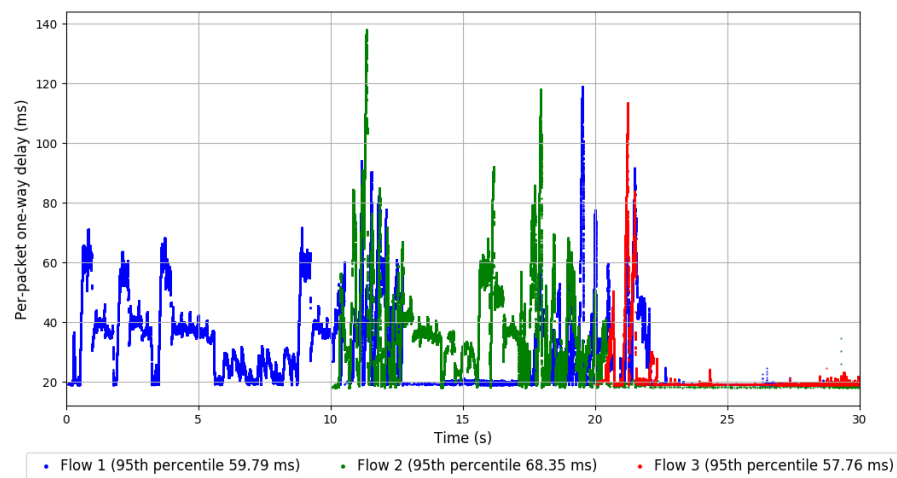
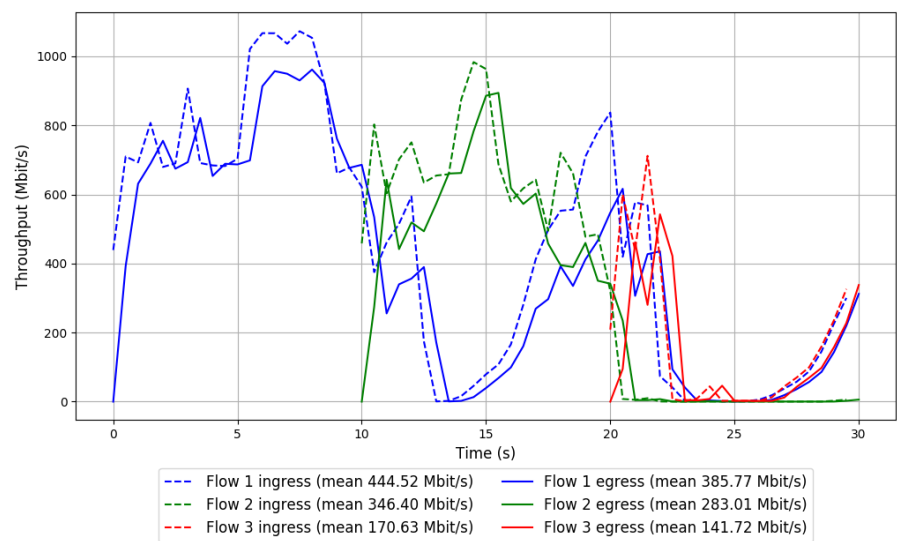
-- Flow 3:

Average throughput: 141.72 Mbit/s

95th percentile per-packet one-way delay: 57.760 ms

Loss rate: 16.94%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2018-07-17 18:32:27

End at: 2018-07-17 18:32:57

Local clock offset: 13.08 ms

Remote clock offset: 3.235 ms

Below is generated by plot.py at 2018-07-17 22:21:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 775.48 Mbit/s

95th percentile per-packet one-way delay: 65.219 ms

Loss rate: 14.97%

-- Flow 1:

Average throughput: 613.50 Mbit/s

95th percentile per-packet one-way delay: 63.236 ms

Loss rate: 11.34%

-- Flow 2:

Average throughput: 185.53 Mbit/s

95th percentile per-packet one-way delay: 74.349 ms

Loss rate: 26.03%

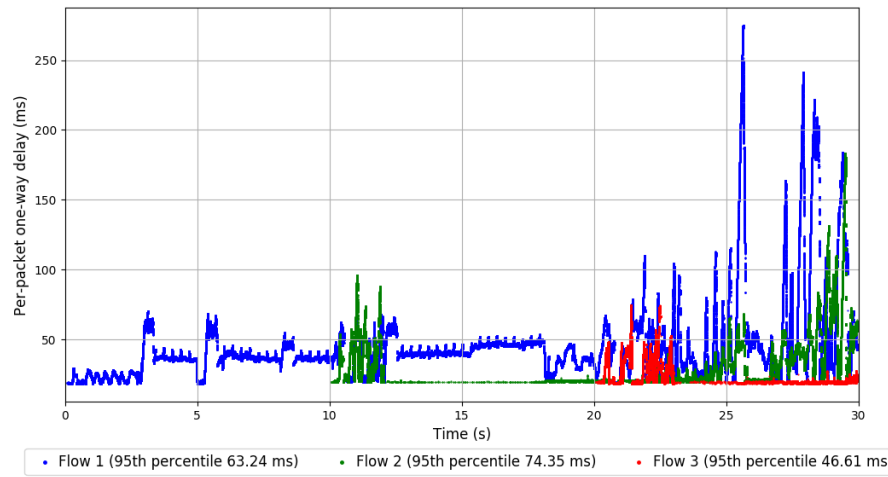
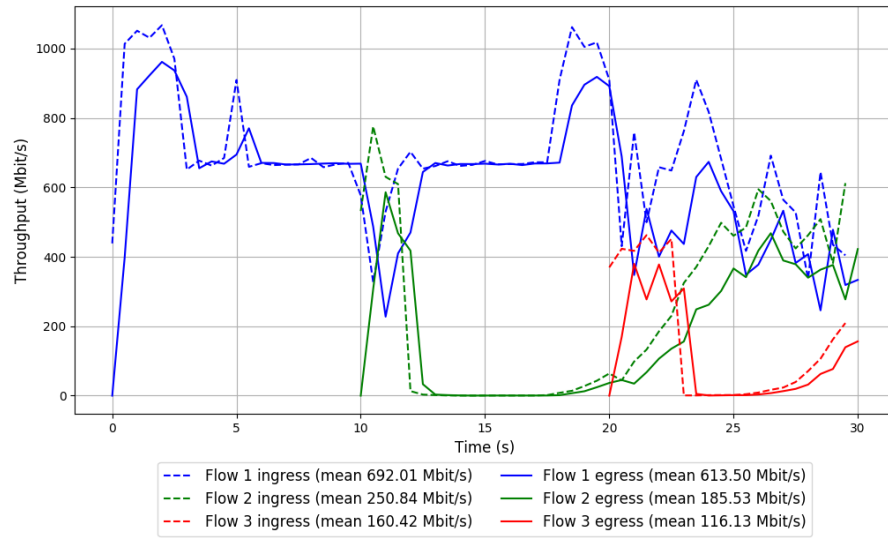
-- Flow 3:

Average throughput: 116.13 Mbit/s

95th percentile per-packet one-way delay: 46.612 ms

Loss rate: 27.61%

Run 5: Report of FillP-Sheep — Data Link



Run 6: Statistics of FillP-Sheep

Start at: 2018-07-17 18:59:39

End at: 2018-07-17 19:00:09

Local clock offset: 17.759 ms

Remote clock offset: 3.319 ms

Below is generated by plot.py at 2018-07-17 22:21:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 646.33 Mbit/s

95th percentile per-packet one-way delay: 51.413 ms

Loss rate: 13.56%

-- Flow 1:

Average throughput: 331.54 Mbit/s

95th percentile per-packet one-way delay: 38.249 ms

Loss rate: 11.57%

-- Flow 2:

Average throughput: 168.21 Mbit/s

95th percentile per-packet one-way delay: 79.400 ms

Loss rate: 18.68%

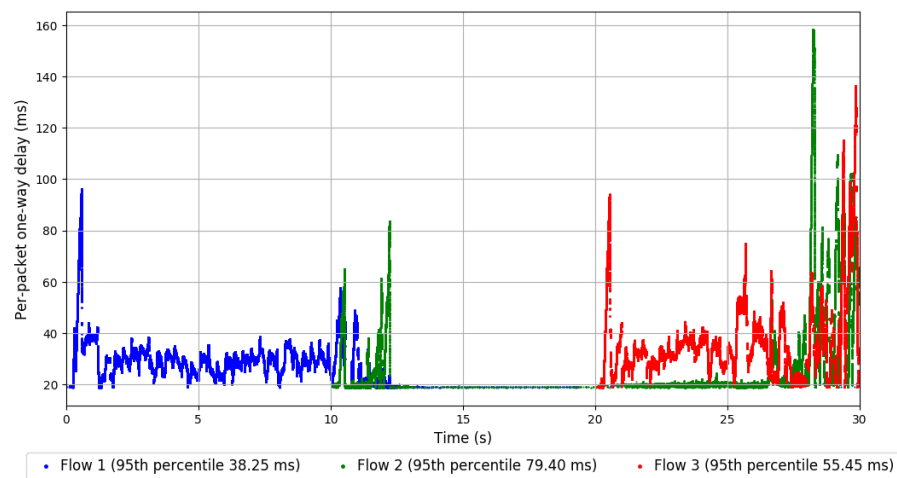
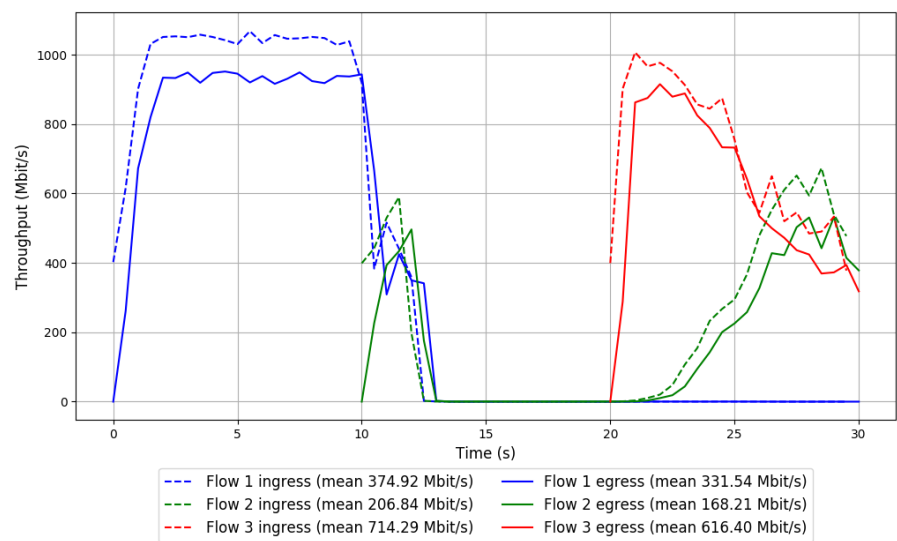
-- Flow 3:

Average throughput: 616.40 Mbit/s

95th percentile per-packet one-way delay: 55.450 ms

Loss rate: 13.71%

Run 6: Report of FillP-Sheep — Data Link



Run 7: Statistics of FillP-Sheep

Start at: 2018-07-17 19:26:41

End at: 2018-07-17 19:27:11

Local clock offset: -1.322 ms

Remote clock offset: 3.088 ms

Below is generated by plot.py at 2018-07-17 22:26:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 626.13 Mbit/s

95th percentile per-packet one-way delay: 60.026 ms

Loss rate: 9.58%

-- Flow 1:

Average throughput: 345.74 Mbit/s

95th percentile per-packet one-way delay: 61.424 ms

Loss rate: 10.40%

-- Flow 2:

Average throughput: 108.02 Mbit/s

95th percentile per-packet one-way delay: 83.928 ms

Loss rate: 22.69%

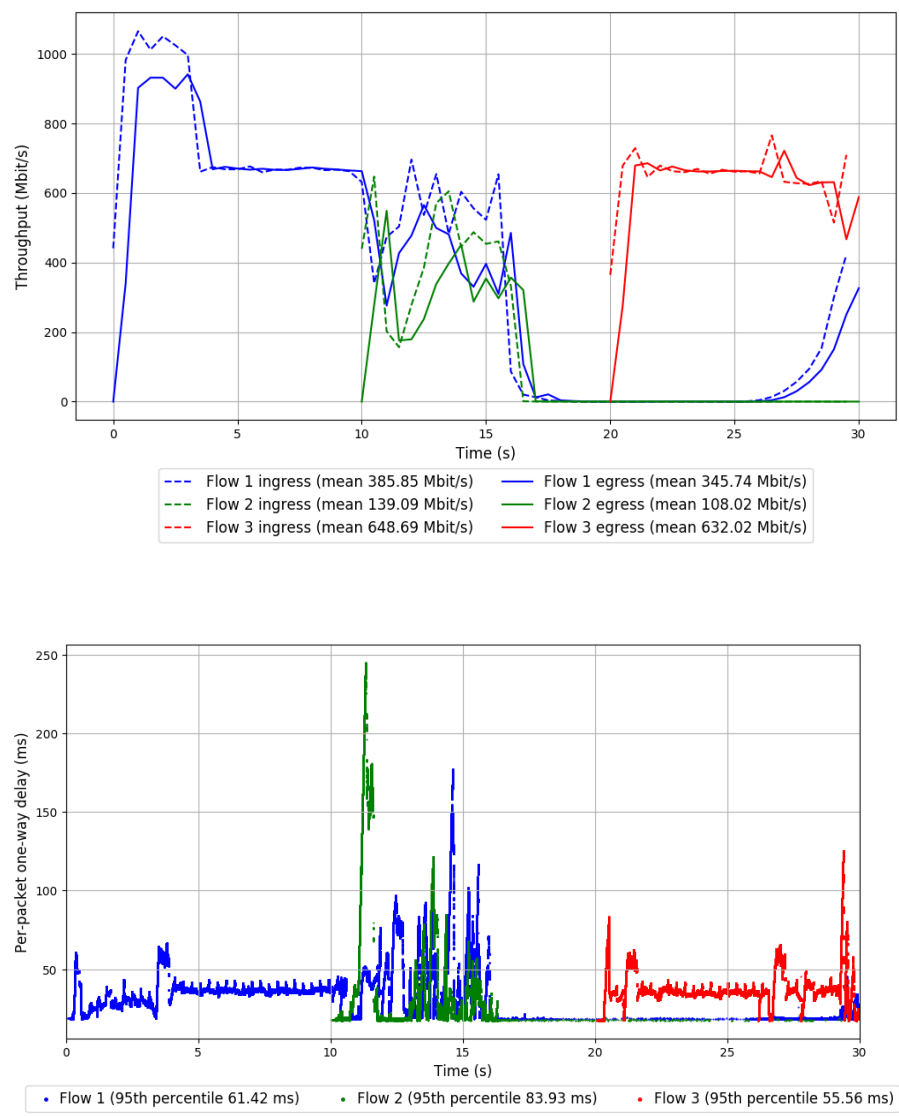
-- Flow 3:

Average throughput: 632.02 Mbit/s

95th percentile per-packet one-way delay: 55.557 ms

Loss rate: 2.55%

Run 7: Report of FillP-Sheep — Data Link



Run 8: Statistics of FillP-Sheep

Start at: 2018-07-17 19:53:50

End at: 2018-07-17 19:54:20

Local clock offset: -2.463 ms

Remote clock offset: 2.617 ms

Below is generated by plot.py at 2018-07-17 22:29:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 757.49 Mbit/s

95th percentile per-packet one-way delay: 83.979 ms

Loss rate: 15.38%

-- Flow 1:

Average throughput: 520.04 Mbit/s

95th percentile per-packet one-way delay: 80.975 ms

Loss rate: 11.13%

-- Flow 2:

Average throughput: 194.01 Mbit/s

95th percentile per-packet one-way delay: 74.871 ms

Loss rate: 23.19%

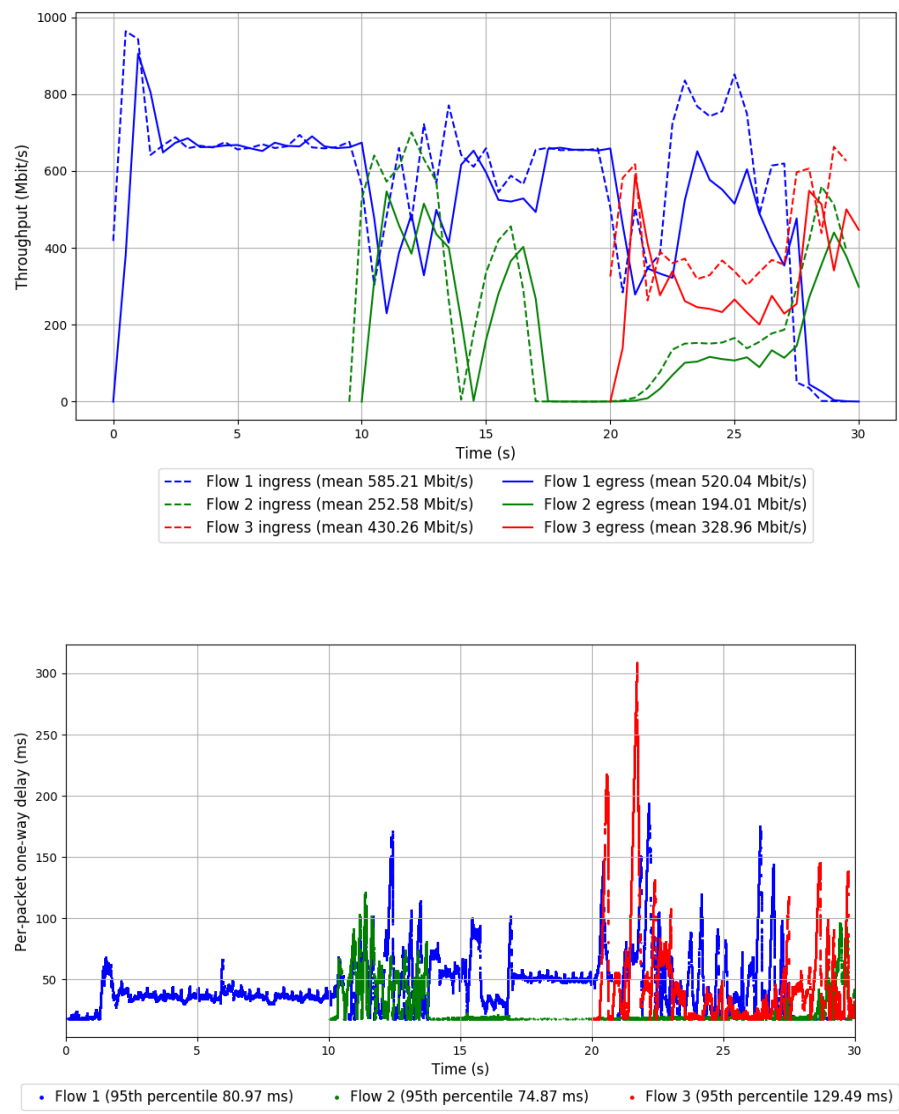
-- Flow 3:

Average throughput: 328.96 Mbit/s

95th percentile per-packet one-way delay: 129.493 ms

Loss rate: 23.54%

Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

Start at: 2018-07-17 20:21:10

End at: 2018-07-17 20:21:40

Local clock offset: -1.874 ms

Remote clock offset: 2.17 ms

Below is generated by plot.py at 2018-07-17 22:30:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 770.65 Mbit/s

95th percentile per-packet one-way delay: 68.353 ms

Loss rate: 18.21%

-- Flow 1:

Average throughput: 420.52 Mbit/s

95th percentile per-packet one-way delay: 67.049 ms

Loss rate: 16.25%

-- Flow 2:

Average throughput: 271.32 Mbit/s

95th percentile per-packet one-way delay: 77.985 ms

Loss rate: 28.71%

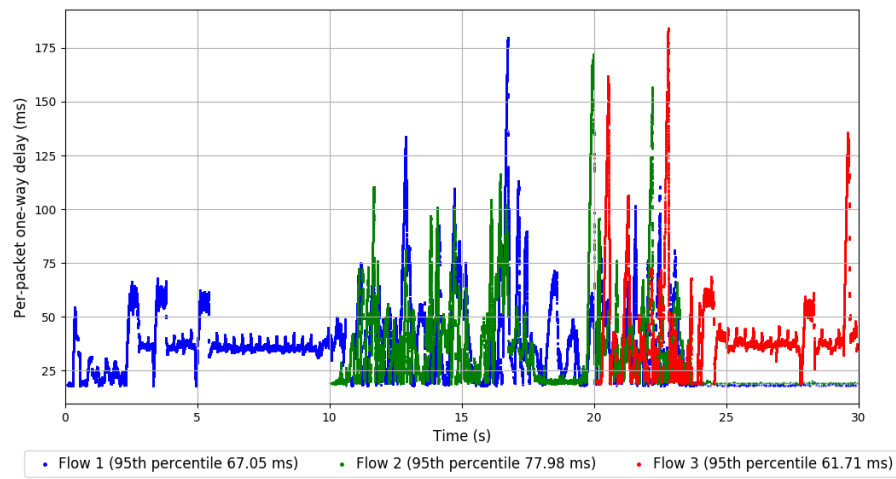
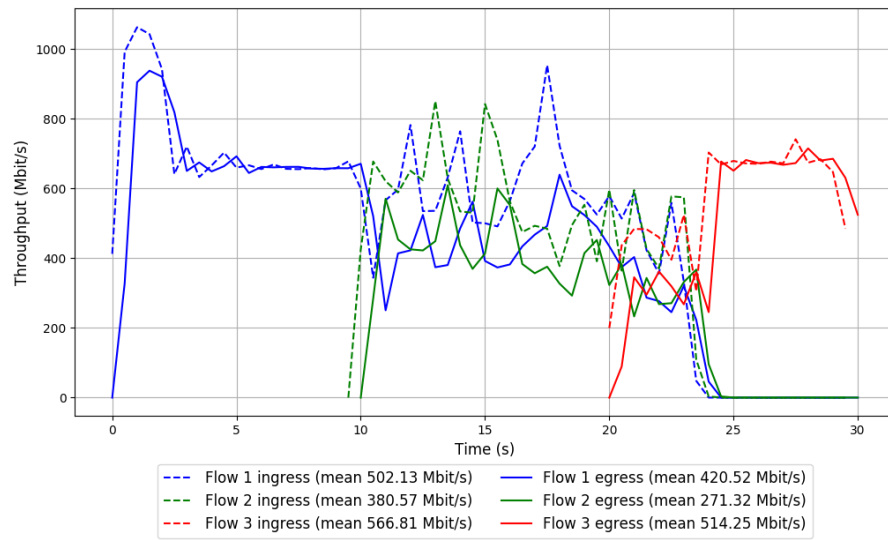
-- Flow 3:

Average throughput: 514.25 Mbit/s

95th percentile per-packet one-way delay: 61.710 ms

Loss rate: 9.29%

Run 9: Report of FillP-Sheep — Data Link



Run 10: Statistics of FillP-Sheep

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

End at: 2018-07-17 20:48:47

Local clock offset: -0.721 ms

Remote clock offset: 1.694 ms

Below is generated by plot.py at 2018-07-17 22:30:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 743.46 Mbit/s

95th percentile per-packet one-way delay: 77.923 ms

Loss rate: 15.88%

-- Flow 1:

Average throughput: 401.44 Mbit/s

95th percentile per-packet one-way delay: 78.115 ms

Loss rate: 13.45%

-- Flow 2:

Average throughput: 487.17 Mbit/s

95th percentile per-packet one-way delay: 72.766 ms

Loss rate: 17.63%

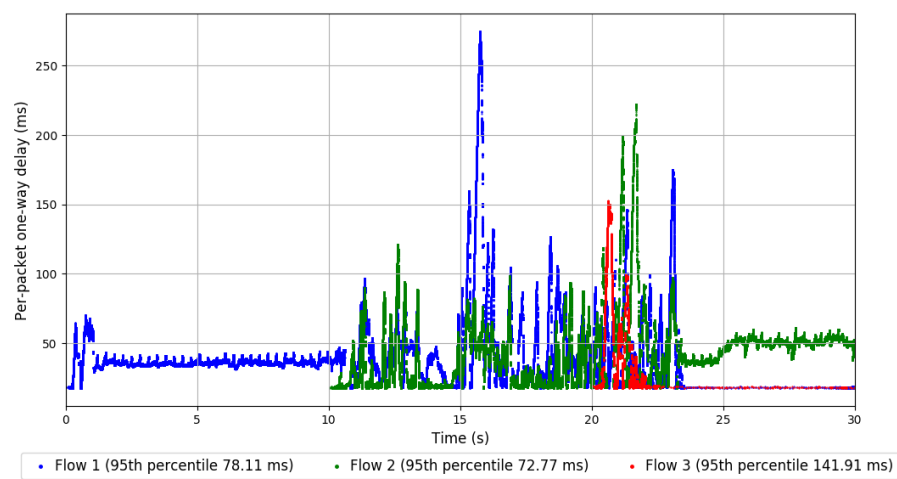
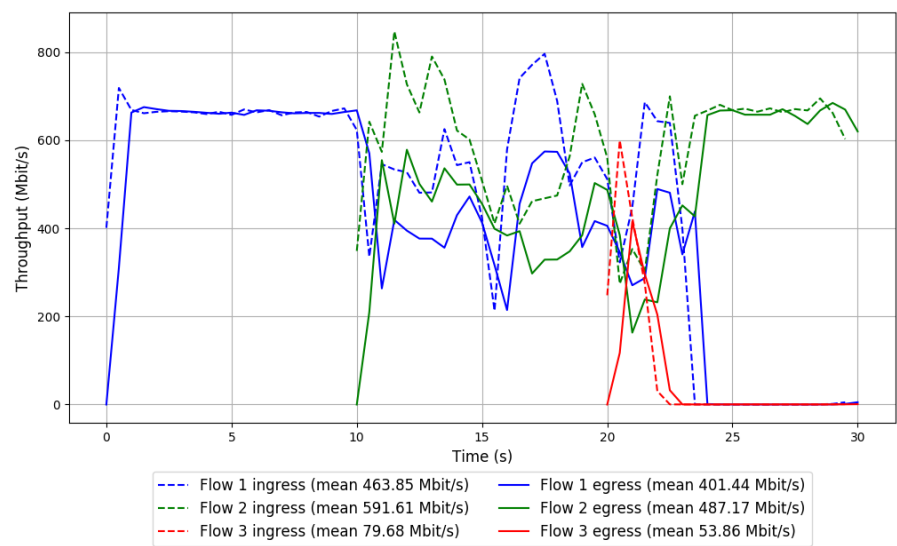
-- Flow 3:

Average throughput: 53.86 Mbit/s

95th percentile per-packet one-way delay: 141.911 ms

Loss rate: 32.41%

Run 10: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2018-07-17 16:36:48

End at: 2018-07-17 16:37:18

Local clock offset: -1.286 ms

Remote clock offset: 0.411 ms

Below is generated by plot.py at 2018-07-17 22:30:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 389.91 Mbit/s

95th percentile per-packet one-way delay: 23.981 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 194.56 Mbit/s

95th percentile per-packet one-way delay: 25.061 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 199.76 Mbit/s

95th percentile per-packet one-way delay: 21.155 ms

Loss rate: 0.00%

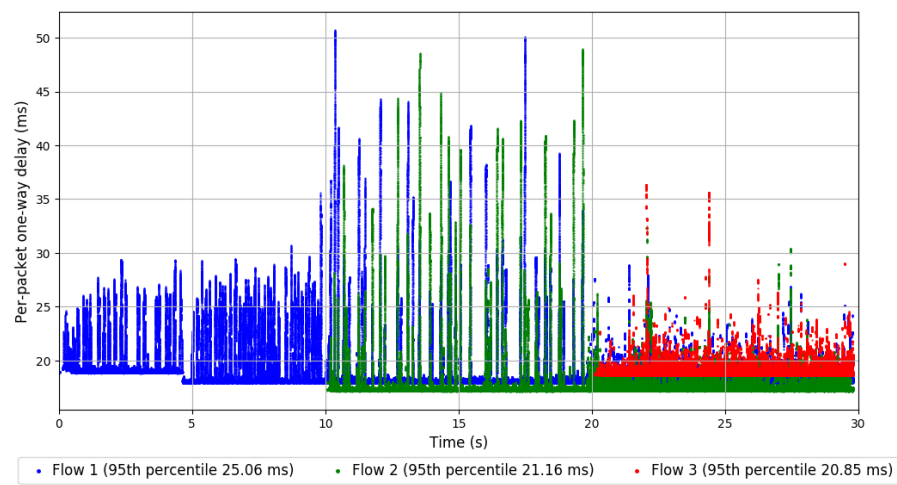
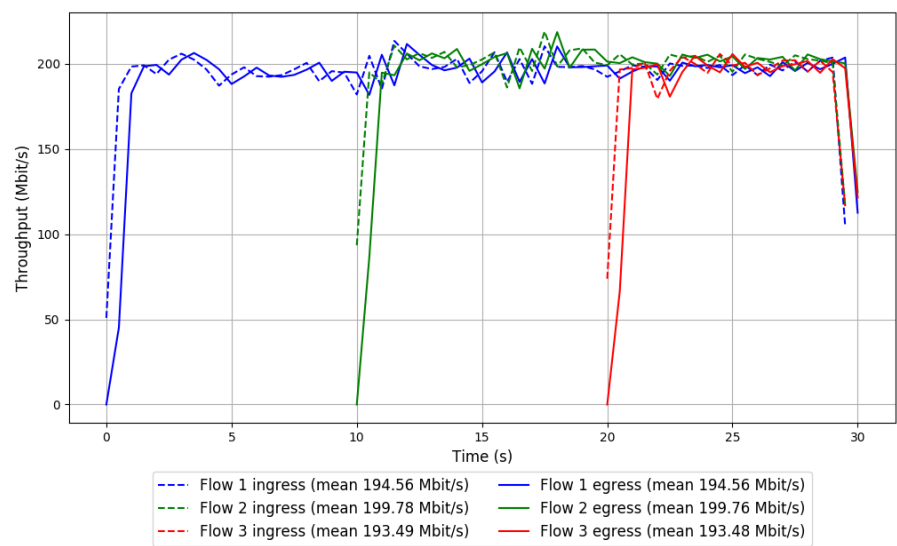
-- Flow 3:

Average throughput: 193.48 Mbit/s

95th percentile per-packet one-way delay: 20.849 ms

Loss rate: 0.01%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-07-17 17:04:01

End at: 2018-07-17 17:04:31

Local clock offset: -4.282 ms

Remote clock offset: 0.983 ms

Below is generated by plot.py at 2018-07-17 22:30:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 379.17 Mbit/s

95th percentile per-packet one-way delay: 25.317 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 191.65 Mbit/s

95th percentile per-packet one-way delay: 28.324 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 189.65 Mbit/s

95th percentile per-packet one-way delay: 21.633 ms

Loss rate: 0.46%

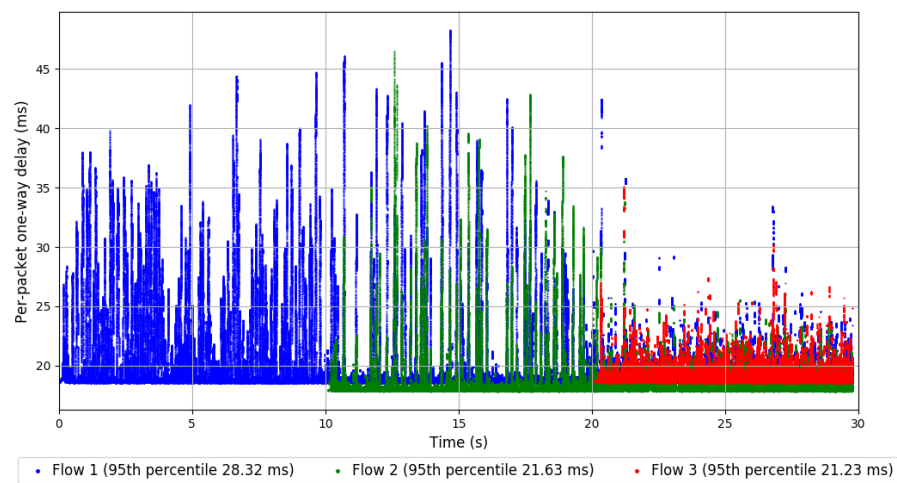
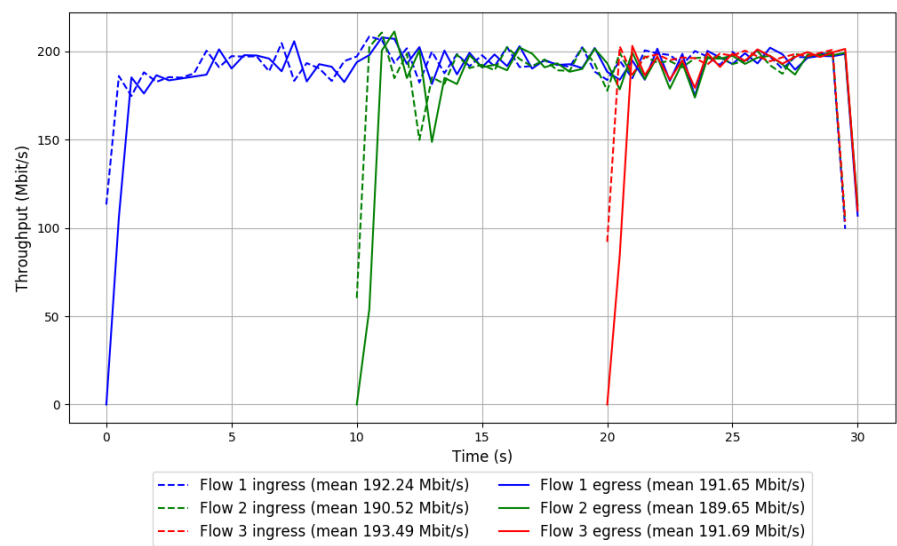
-- Flow 3:

Average throughput: 191.69 Mbit/s

95th percentile per-packet one-way delay: 21.231 ms

Loss rate: 0.88%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-07-17 17:31:22

End at: 2018-07-17 17:31:52

Local clock offset: 0.744 ms

Remote clock offset: 1.781 ms

Below is generated by plot.py at 2018-07-17 22:30:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 383.40 Mbit/s

95th percentile per-packet one-way delay: 22.479 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 193.59 Mbit/s

95th percentile per-packet one-way delay: 23.963 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 193.09 Mbit/s

95th percentile per-packet one-way delay: 22.220 ms

Loss rate: 0.47%

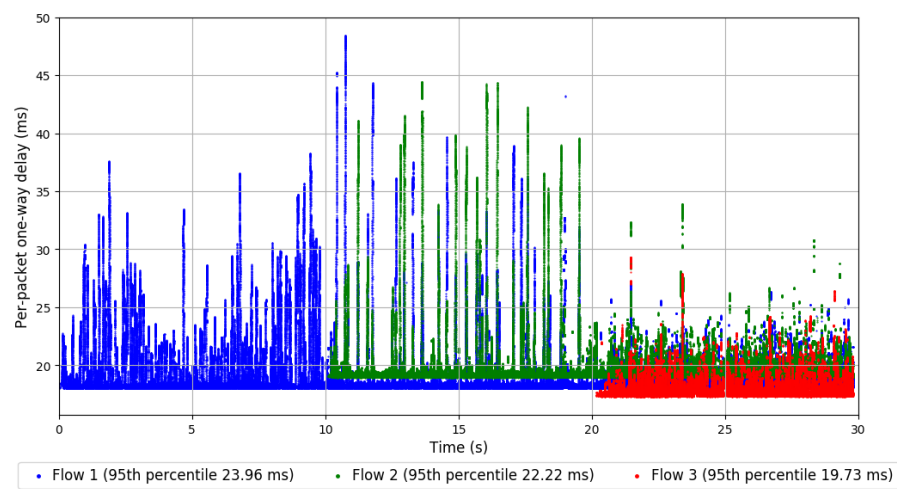
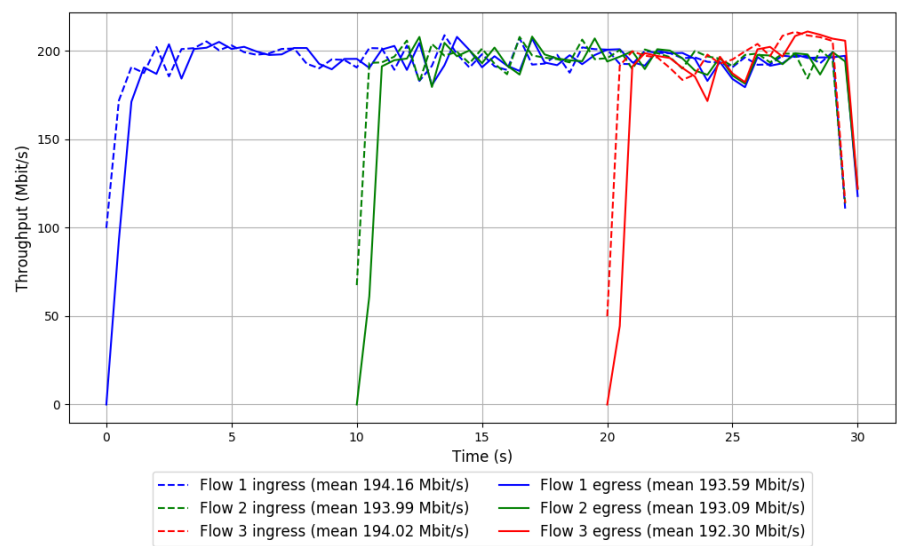
-- Flow 3:

Average throughput: 192.30 Mbit/s

95th percentile per-packet one-way delay: 19.727 ms

Loss rate: 0.89%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-07-17 17:58:52

End at: 2018-07-17 17:59:22

Local clock offset: 0.403 ms

Remote clock offset: 2.549 ms

Below is generated by plot.py at 2018-07-17 22:30:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 286.05 Mbit/s

95th percentile per-packet one-way delay: 21.504 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 99.29 Mbit/s

95th percentile per-packet one-way delay: 21.114 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 188.13 Mbit/s

95th percentile per-packet one-way delay: 24.523 ms

Loss rate: 0.30%

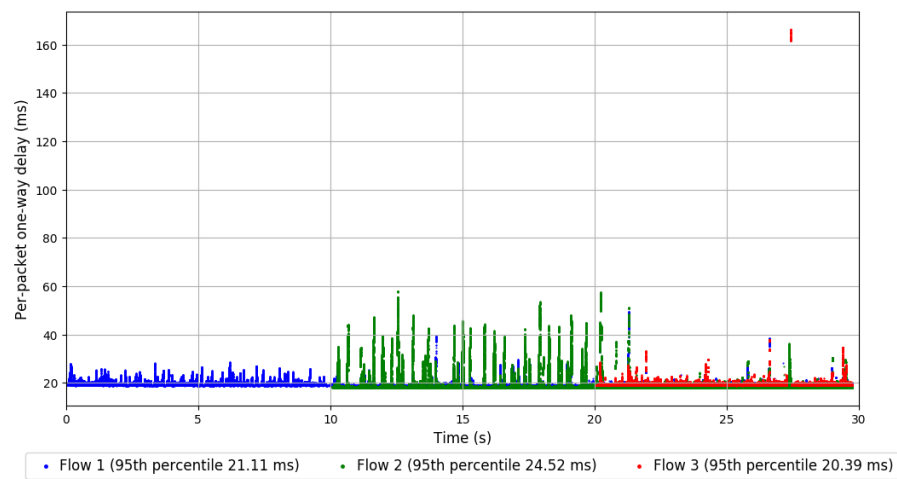
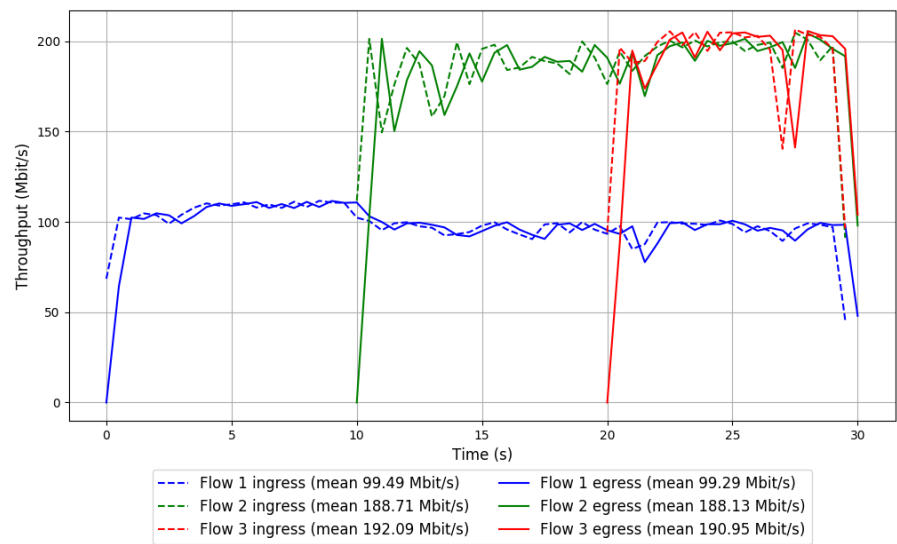
-- Flow 3:

Average throughput: 190.95 Mbit/s

95th percentile per-packet one-way delay: 20.385 ms

Loss rate: 0.59%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-07-17 18:26:00

End at: 2018-07-17 18:26:30

Local clock offset: 11.314 ms

Remote clock offset: 3.149 ms

Below is generated by plot.py at 2018-07-17 22:30:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 387.82 Mbit/s

95th percentile per-packet one-way delay: 22.535 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 195.77 Mbit/s

95th percentile per-packet one-way delay: 23.662 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 194.16 Mbit/s

95th percentile per-packet one-way delay: 21.199 ms

Loss rate: 0.00%

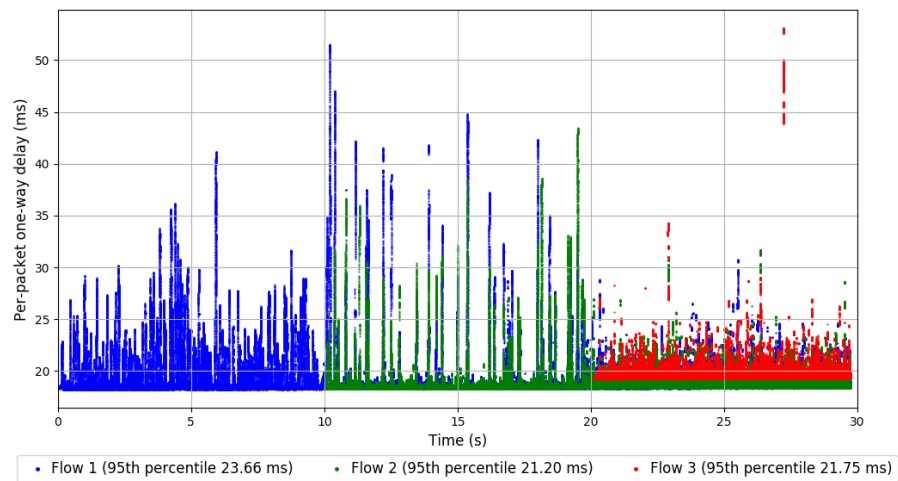
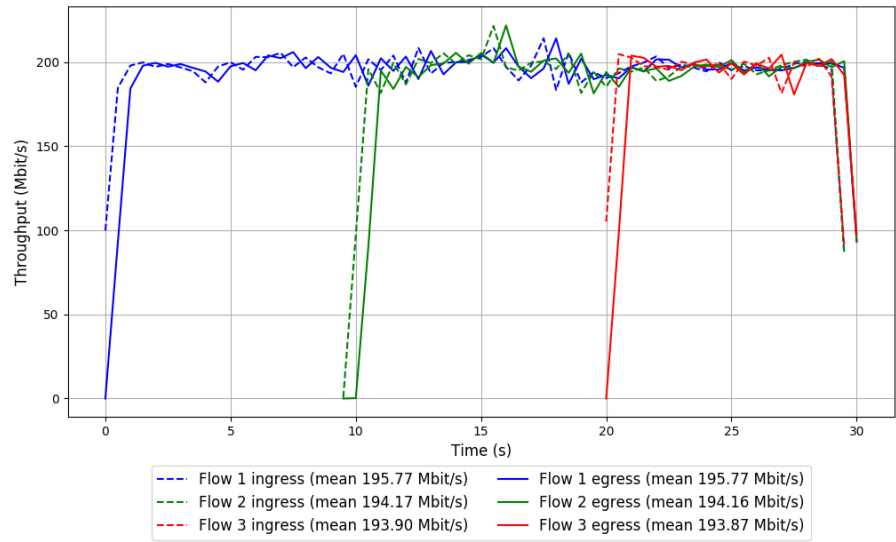
-- Flow 3:

Average throughput: 193.87 Mbit/s

95th percentile per-packet one-way delay: 21.747 ms

Loss rate: 0.01%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-07-17 18:53:14

End at: 2018-07-17 18:53:44

Local clock offset: 17.234 ms

Remote clock offset: 3.392 ms

Below is generated by plot.py at 2018-07-17 22:30:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 392.39 Mbit/s

95th percentile per-packet one-way delay: 21.511 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 197.68 Mbit/s

95th percentile per-packet one-way delay: 22.852 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 197.13 Mbit/s

95th percentile per-packet one-way delay: 20.640 ms

Loss rate: 0.00%

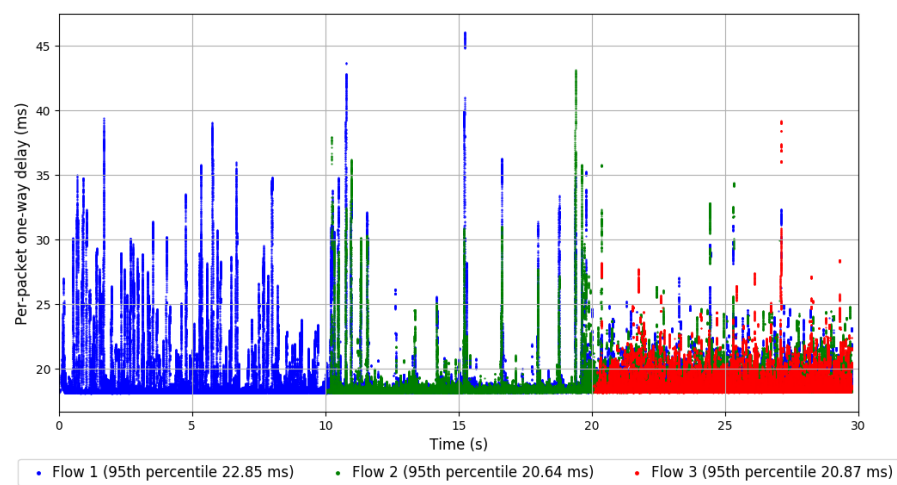
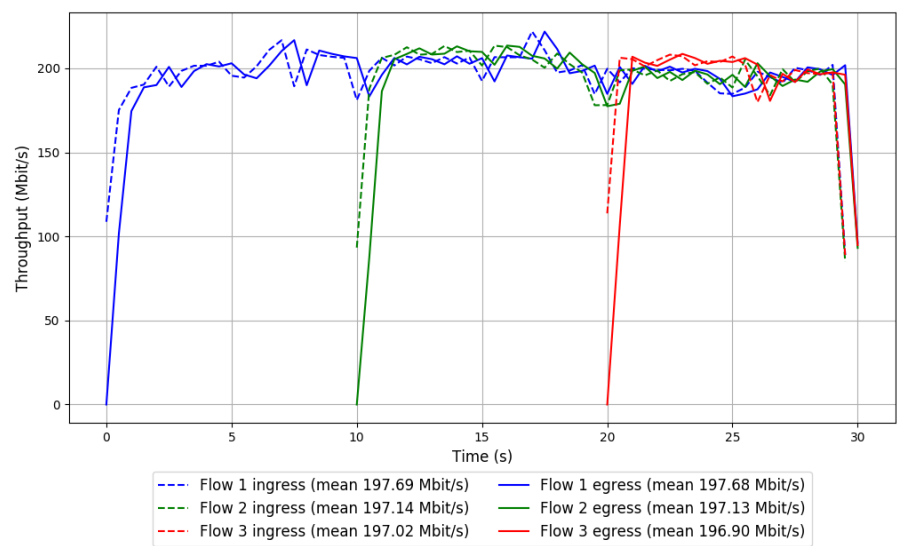
-- Flow 3:

Average throughput: 196.90 Mbit/s

95th percentile per-packet one-way delay: 20.868 ms

Loss rate: 0.06%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-07-17 19:20:19

End at: 2018-07-17 19:20:49

Local clock offset: 2.759 ms

Remote clock offset: 3.093 ms

Below is generated by plot.py at 2018-07-17 22:30:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 387.09 Mbit/s

95th percentile per-packet one-way delay: 20.756 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 195.59 Mbit/s

95th percentile per-packet one-way delay: 21.947 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 194.59 Mbit/s

95th percentile per-packet one-way delay: 19.624 ms

Loss rate: 0.37%

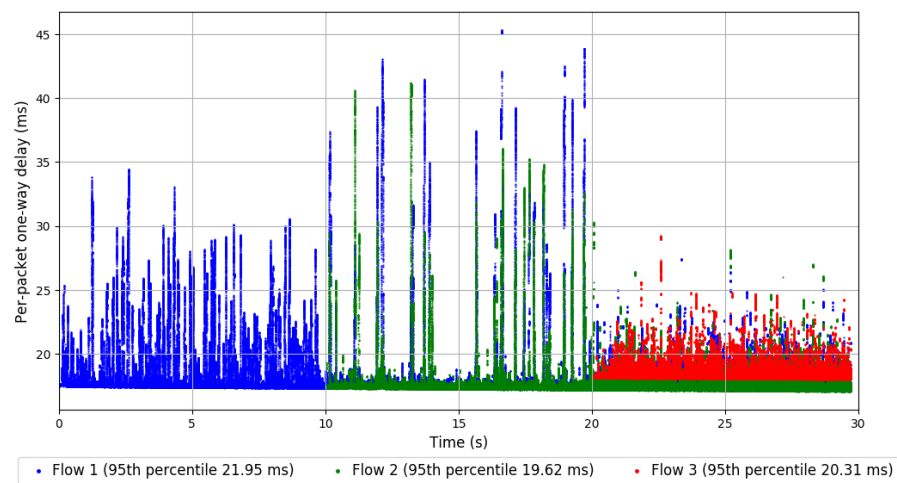
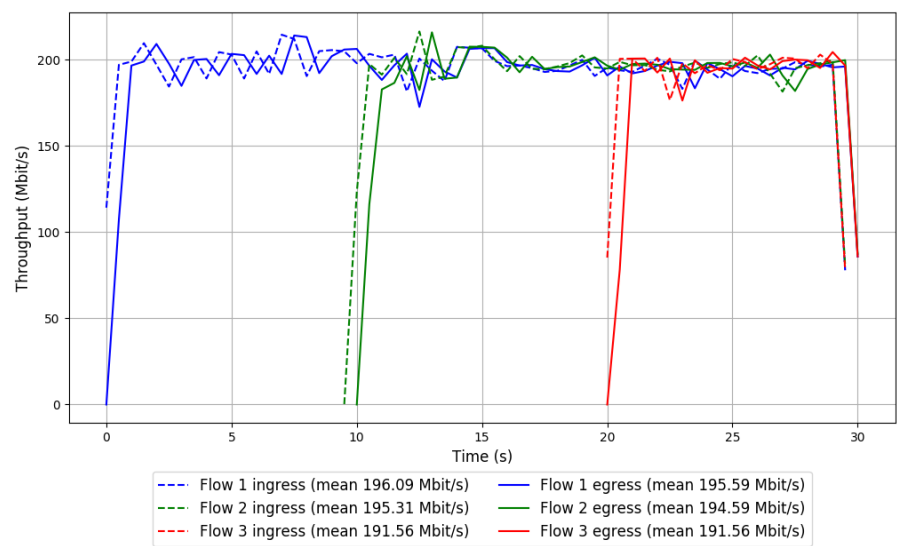
-- Flow 3:

Average throughput: 191.56 Mbit/s

95th percentile per-packet one-way delay: 20.311 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-07-17 19:47:22

End at: 2018-07-17 19:47:52

Local clock offset: -2.992 ms

Remote clock offset: 2.784 ms

Below is generated by plot.py at 2018-07-17 22:30:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 392.51 Mbit/s

95th percentile per-packet one-way delay: 20.784 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 199.14 Mbit/s

95th percentile per-packet one-way delay: 20.998 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 198.25 Mbit/s

95th percentile per-packet one-way delay: 20.152 ms

Loss rate: 0.00%

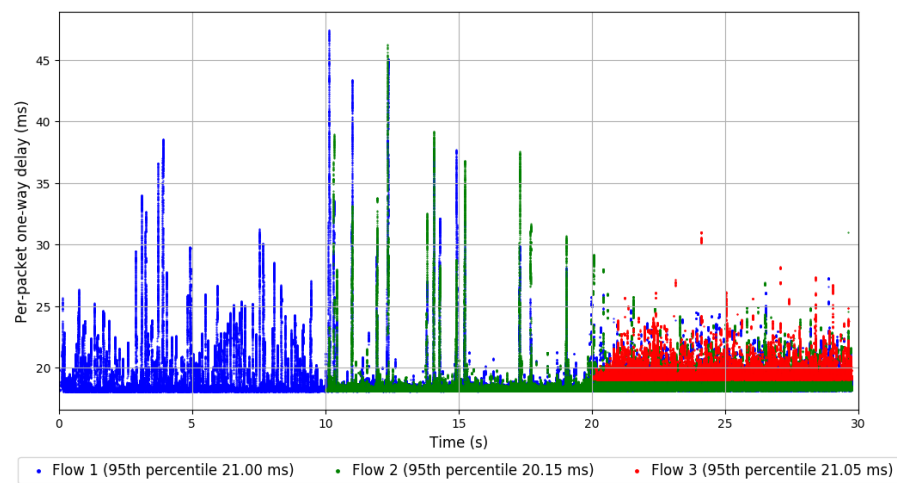
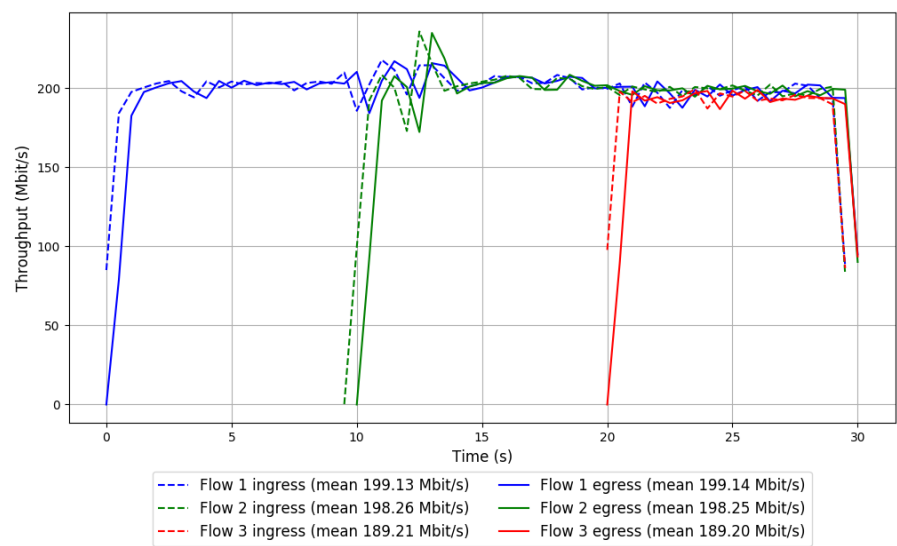
-- Flow 3:

Average throughput: 189.20 Mbit/s

95th percentile per-packet one-way delay: 21.047 ms

Loss rate: 0.02%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-07-17 20:14:42

End at: 2018-07-17 20:15:12

Local clock offset: -2.391 ms

Remote clock offset: 2.392 ms

Below is generated by plot.py at 2018-07-17 22:31:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 390.38 Mbit/s

95th percentile per-packet one-way delay: 21.356 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 196.02 Mbit/s

95th percentile per-packet one-way delay: 22.224 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 196.47 Mbit/s

95th percentile per-packet one-way delay: 21.064 ms

Loss rate: 0.03%

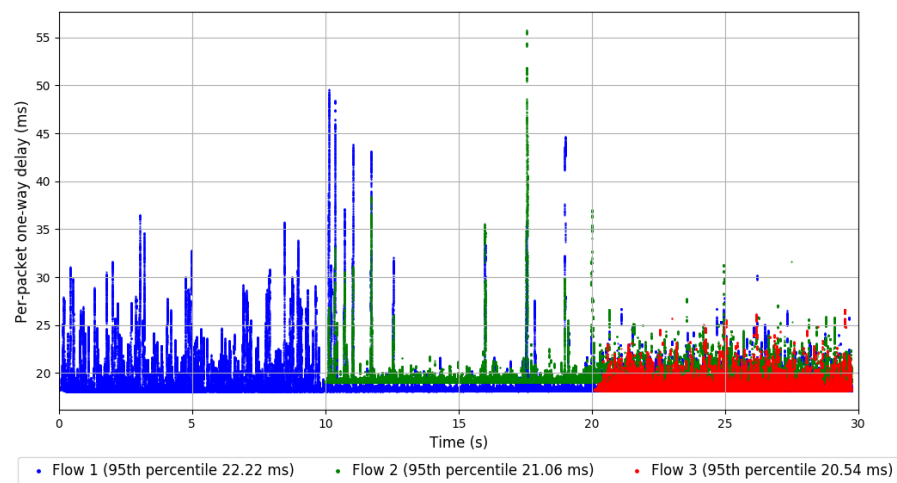
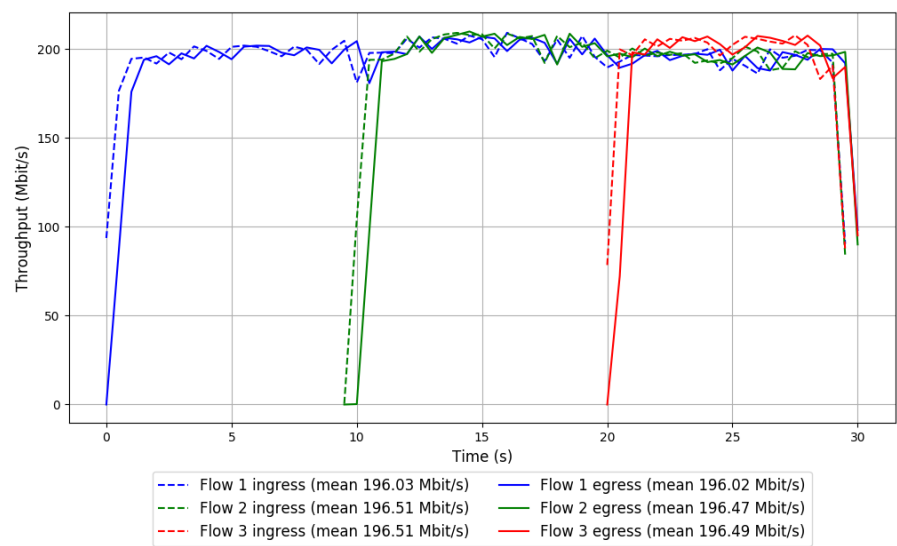
-- Flow 3:

Average throughput: 196.49 Mbit/s

95th percentile per-packet one-way delay: 20.538 ms

Loss rate: 0.01%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-07-17 20:41:57

End at: 2018-07-17 20:42:27

Local clock offset: -1.746 ms

Remote clock offset: 1.855 ms

Below is generated by plot.py at 2018-07-17 22:32:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 290.11 Mbit/s

95th percentile per-packet one-way delay: 21.743 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 100.21 Mbit/s

95th percentile per-packet one-way delay: 21.884 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 188.74 Mbit/s

95th percentile per-packet one-way delay: 24.964 ms

Loss rate: 0.00%

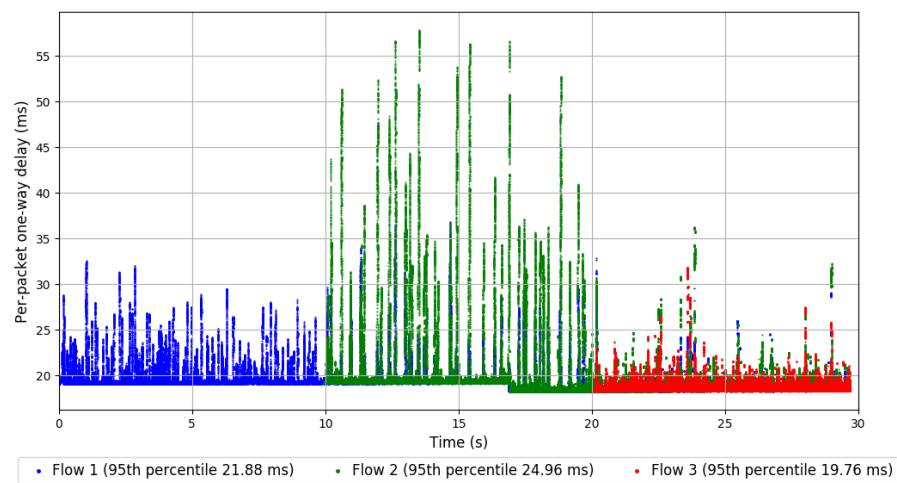
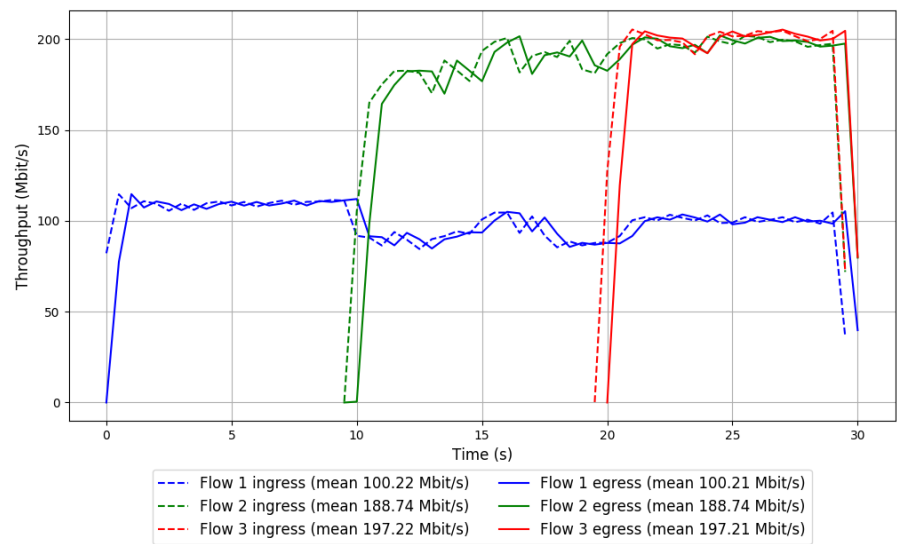
-- Flow 3:

Average throughput: 197.21 Mbit/s

95th percentile per-packet one-way delay: 19.760 ms

Loss rate: 0.01%

Run 10: Report of Indigo — Data Link

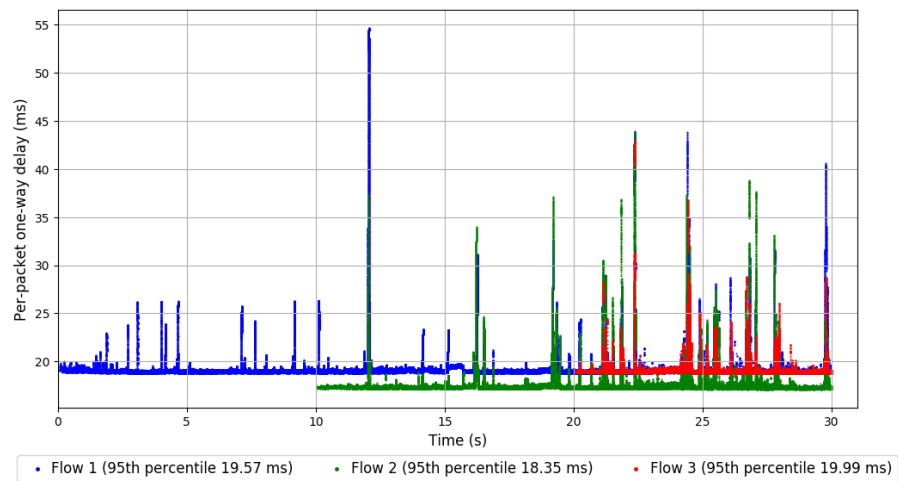
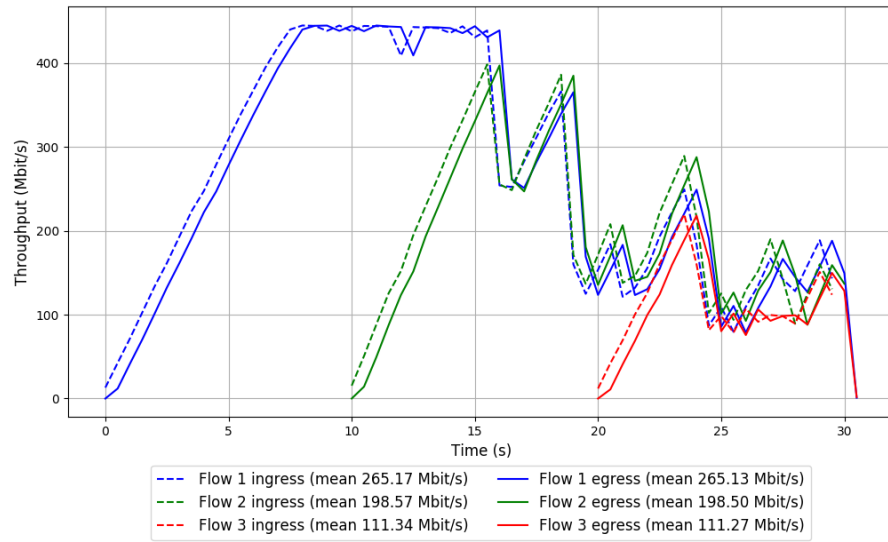


```
Run 1: Statistics of LEDBAT

Start at: 2018-07-17 16:38:23
End at: 2018-07-17 16:38:53
Local clock offset: -1.323 ms
Remote clock offset: 0.415 ms

# Below is generated by plot.py at 2018-07-17 22:34:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 434.31 Mbit/s
95th percentile per-packet one-way delay: 19.538 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 265.13 Mbit/s
95th percentile per-packet one-way delay: 19.566 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 198.50 Mbit/s
95th percentile per-packet one-way delay: 18.353 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 111.27 Mbit/s
95th percentile per-packet one-way delay: 19.988 ms
Loss rate: 0.07%
```


Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-07-17 17:05:36

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

Local clock offset: -4.486 ms

Remote clock offset: 1.024 ms

Below is generated by plot.py at 2018-07-17 22:35:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 498.47 Mbit/s

95th percentile per-packet one-way delay: 19.700 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 291.67 Mbit/s

95th percentile per-packet one-way delay: 19.830 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 231.97 Mbit/s

95th percentile per-packet one-way delay: 19.488 ms

Loss rate: 0.01%

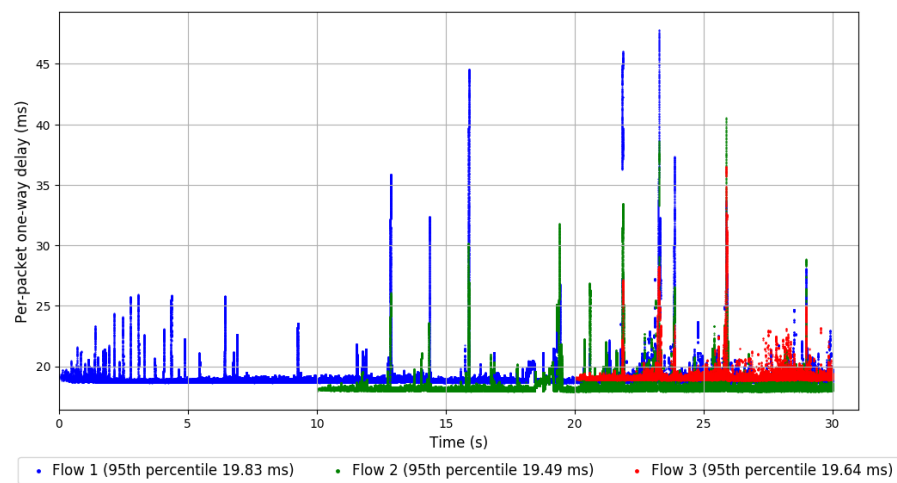
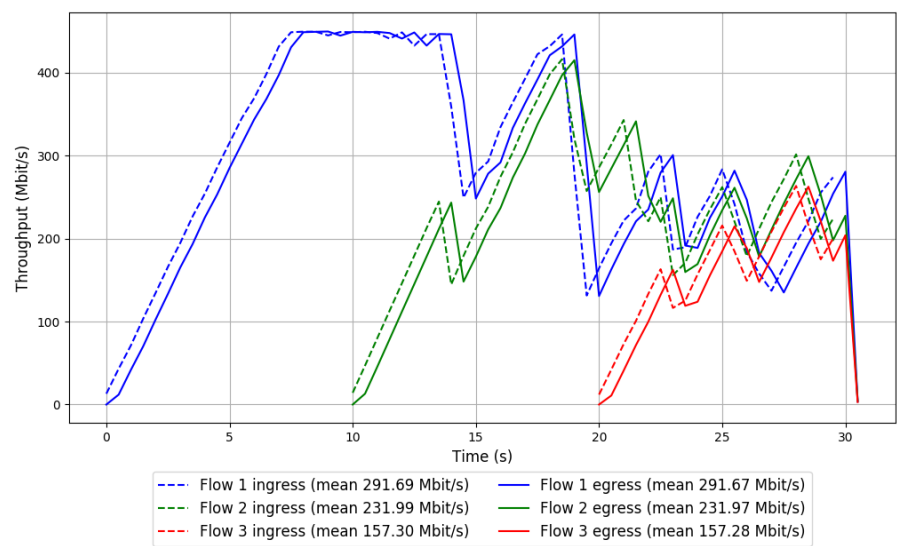
-- Flow 3:

Average throughput: 157.28 Mbit/s

95th percentile per-packet one-way delay: 19.645 ms

Loss rate: 0.02%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-07-17 17:32:57

End at: 2018-07-17 17:33:27

Local clock offset: 0.846 ms

Remote clock offset: 1.814 ms

Below is generated by plot.py at 2018-07-17 22:35:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 425.48 Mbit/s

95th percentile per-packet one-way delay: 19.331 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 248.84 Mbit/s

95th percentile per-packet one-way delay: 19.114 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 201.83 Mbit/s

95th percentile per-packet one-way delay: 19.134 ms

Loss rate: 0.03%

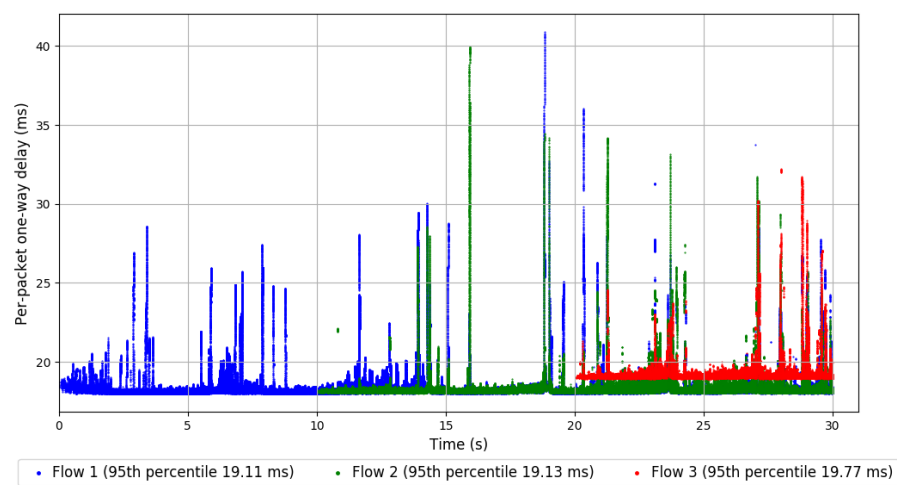
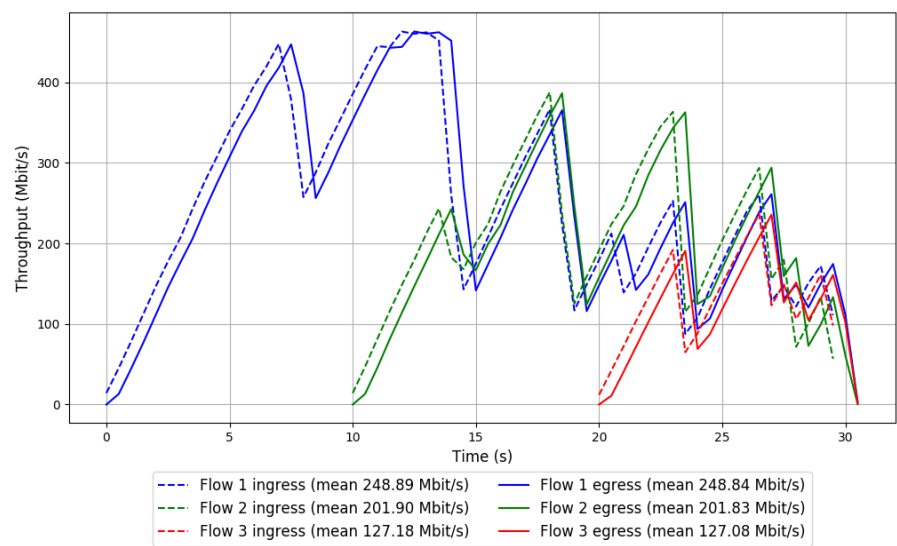
-- Flow 3:

Average throughput: 127.08 Mbit/s

95th percentile per-packet one-way delay: 19.775 ms

Loss rate: 0.07%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-07-17 18:00:23

End at: 2018-07-17 18:00:53

Local clock offset: 0.495 ms

Remote clock offset: 2.559 ms

Below is generated by plot.py at 2018-07-17 22:35:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 428.36 Mbit/s

95th percentile per-packet one-way delay: 19.754 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 247.07 Mbit/s

95th percentile per-packet one-way delay: 20.082 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 204.23 Mbit/s

95th percentile per-packet one-way delay: 19.261 ms

Loss rate: 0.03%

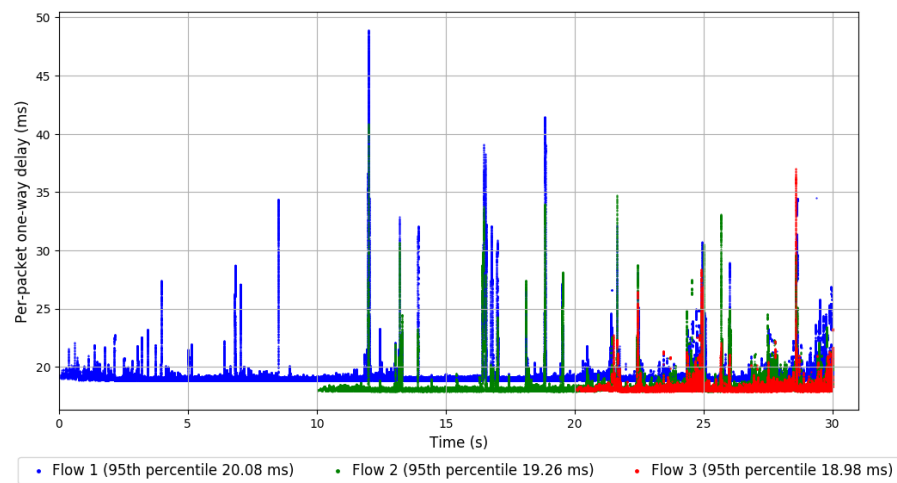
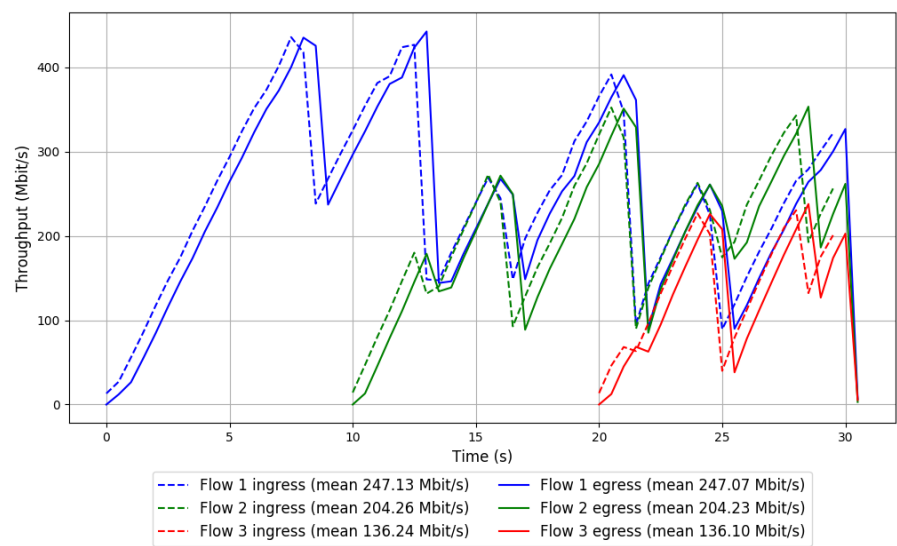
-- Flow 3:

Average throughput: 136.10 Mbit/s

95th percentile per-packet one-way delay: 18.977 ms

Loss rate: 0.10%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-07-17 18:27:34

End at: 2018-07-17 18:28:04

Local clock offset: 11.845 ms

Remote clock offset: 3.195 ms

Below is generated by plot.py at 2018-07-17 22:35:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 450.50 Mbit/s

95th percentile per-packet one-way delay: 18.987 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 265.86 Mbit/s

95th percentile per-packet one-way delay: 18.873 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 202.09 Mbit/s

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

Loss rate: 0.06%

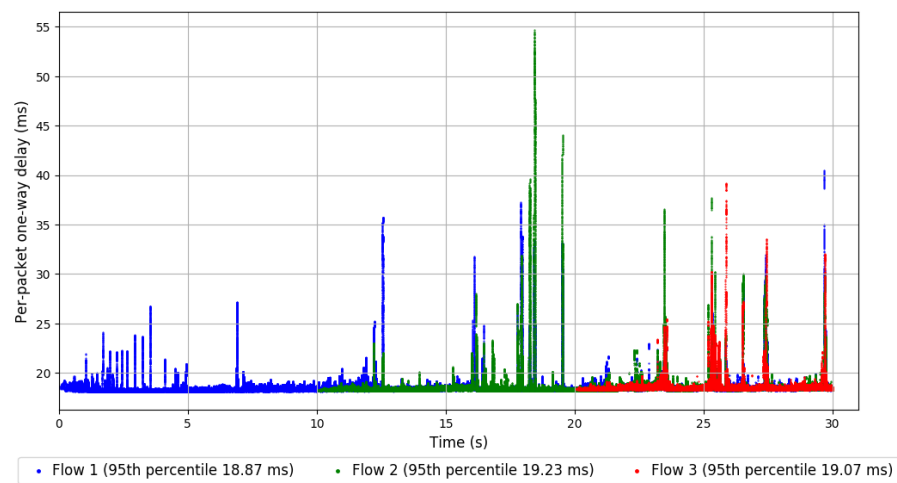
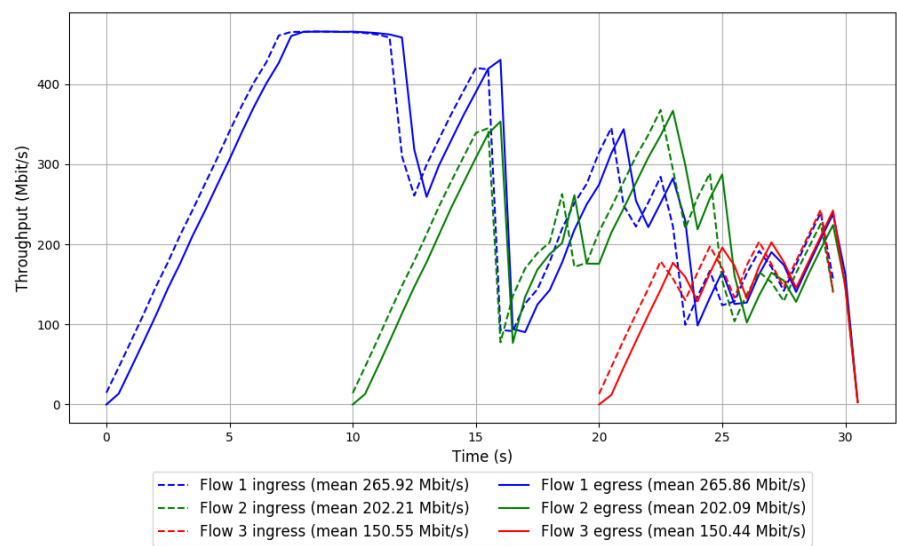
-- Flow 3:

Average throughput: 150.44 Mbit/s

95th percentile per-packet one-way delay: 19.075 ms

Loss rate: 0.07%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-07-17 18:54:49

End at: 2018-07-17 18:55:19

Local clock offset: 17.543 ms

Remote clock offset: 3.398 ms

Below is generated by plot.py at 2018-07-17 22:35:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 326.55 Mbit/s

95th percentile per-packet one-way delay: 19.856 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 153.60 Mbit/s

95th percentile per-packet one-way delay: 19.852 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 197.64 Mbit/s

95th percentile per-packet one-way delay: 19.575 ms

Loss rate: 0.05%

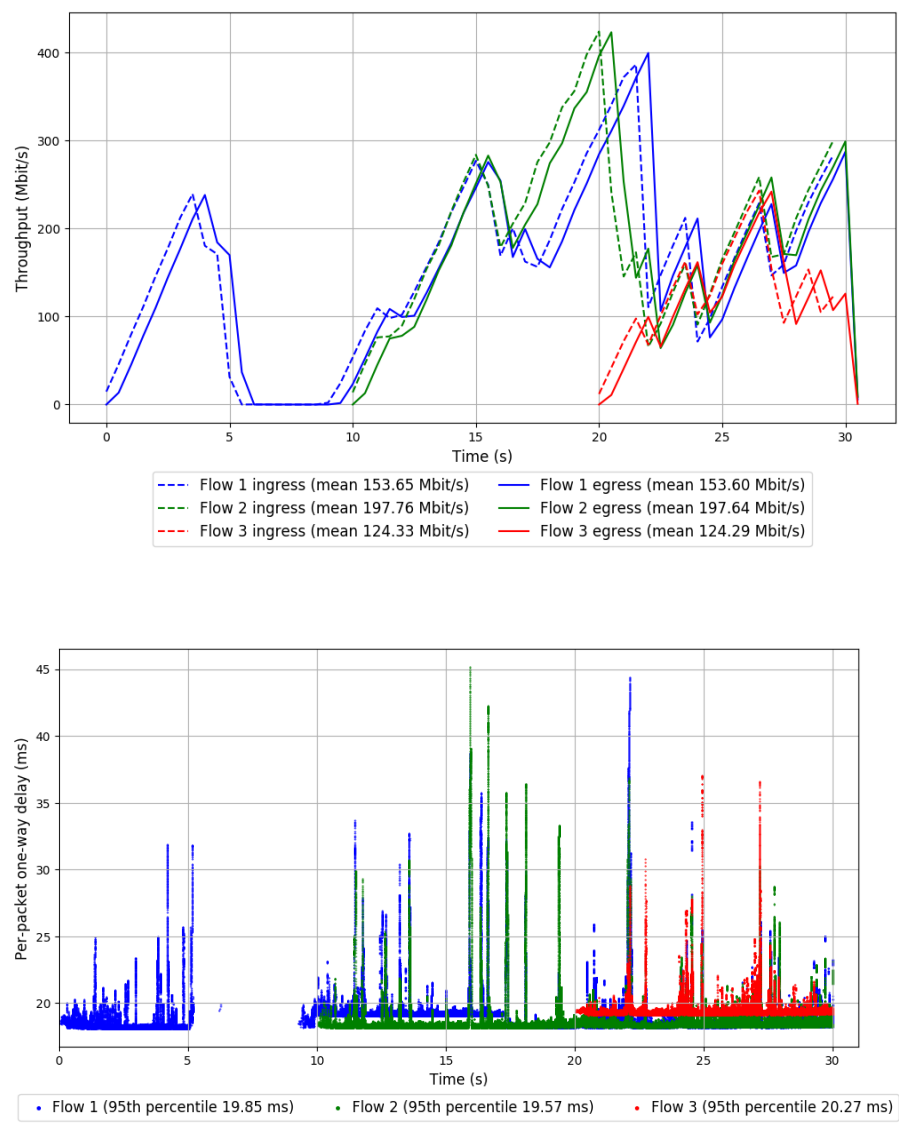
-- Flow 3:

Average throughput: 124.29 Mbit/s

95th percentile per-packet one-way delay: 20.266 ms

Loss rate: 0.04%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-07-17 19:21:54

End at: 2018-07-17 19:22:24

Local clock offset: 1.523 ms

Remote clock offset: 3.132 ms

Below is generated by plot.py at 2018-07-17 22:35:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 269.16 Mbit/s

95th percentile per-packet one-way delay: 19.891 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 152.12 Mbit/s

95th percentile per-packet one-way delay: 19.621 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 139.27 Mbit/s

95th percentile per-packet one-way delay: 20.094 ms

Loss rate: 0.02%

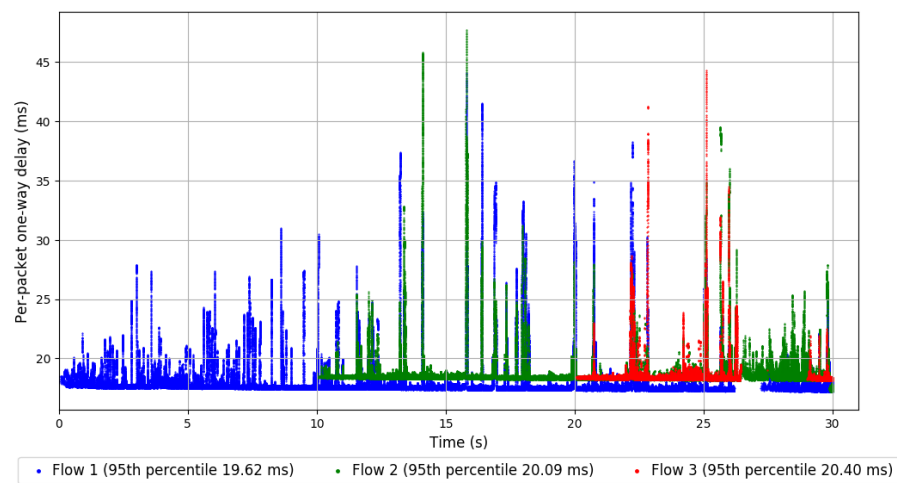
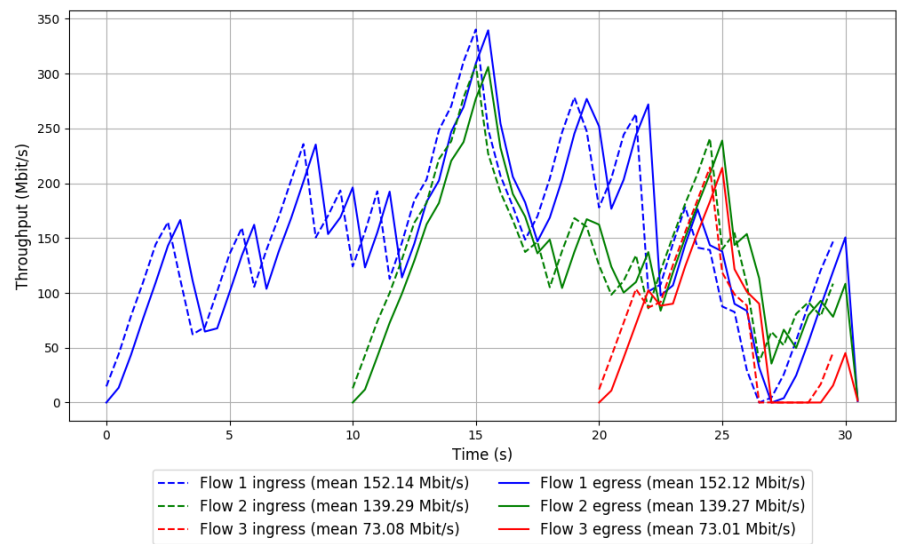
-- Flow 3:

Average throughput: 73.01 Mbit/s

95th percentile per-packet one-way delay: 20.402 ms

Loss rate: 0.11%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-07-17 19:48:57

End at: 2018-07-17 19:49:27

Local clock offset: -2.748 ms

Remote clock offset: 2.783 ms

Below is generated by plot.py at 2018-07-17 22:37:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 449.59 Mbit/s

95th percentile per-packet one-way delay: 19.510 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 261.32 Mbit/s

95th percentile per-packet one-way delay: 19.383 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 215.78 Mbit/s

95th percentile per-packet one-way delay: 19.477 ms

Loss rate: 0.03%

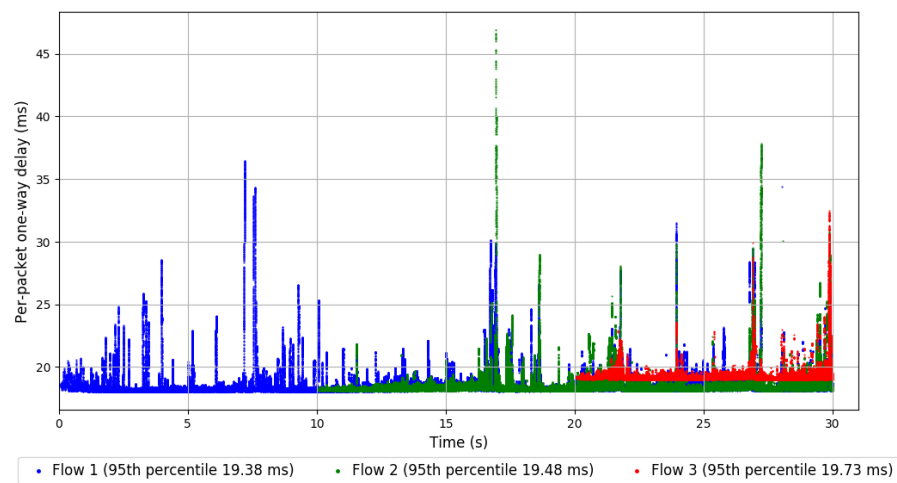
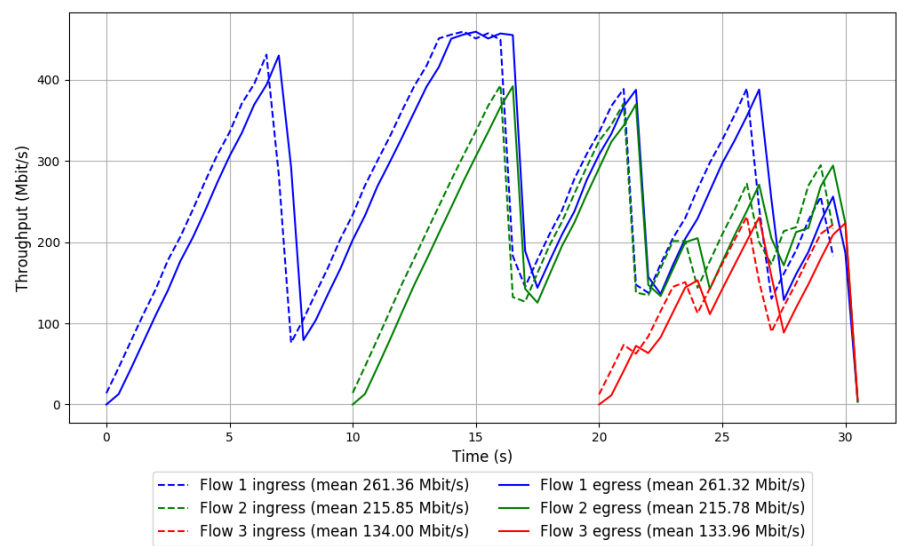
-- Flow 3:

Average throughput: 133.96 Mbit/s

95th percentile per-packet one-way delay: 19.729 ms

Loss rate: 0.04%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-07-17 20:16:17

End at: 2018-07-17 20:16:47

Local clock offset: -2.206 ms

Remote clock offset: 2.273 ms

Below is generated by plot.py at 2018-07-17 22:39:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 415.19 Mbit/s

95th percentile per-packet one-way delay: 19.396 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 264.98 Mbit/s

95th percentile per-packet one-way delay: 19.234 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 169.80 Mbit/s

95th percentile per-packet one-way delay: 19.127 ms

Loss rate: 0.05%

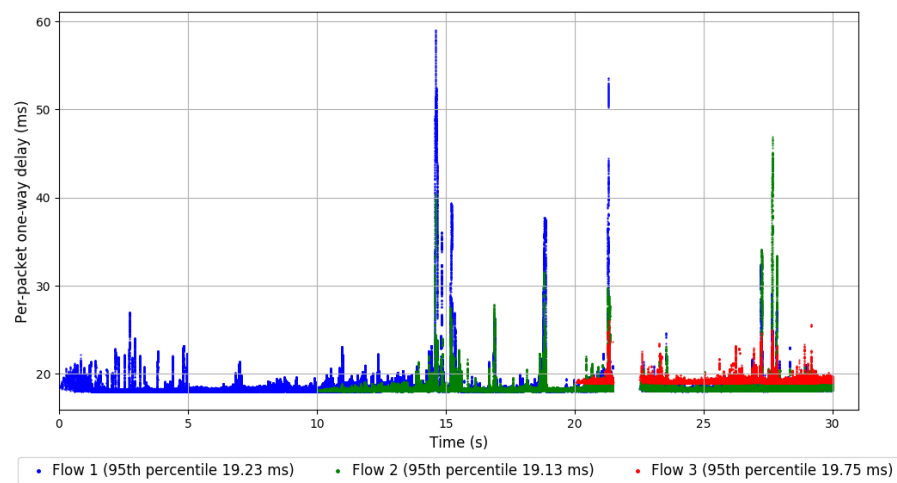
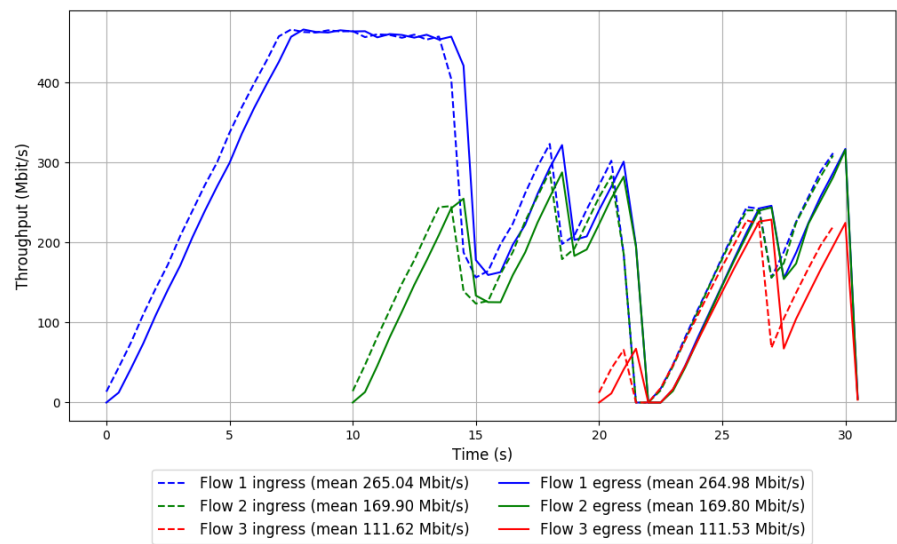
-- Flow 3:

Average throughput: 111.53 Mbit/s

95th percentile per-packet one-way delay: 19.752 ms

Loss rate: 0.09%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-07-17 20:43:28

End at: 2018-07-17 20:43:58

Local clock offset: -1.45 ms

Remote clock offset: 1.788 ms

Below is generated by plot.py at 2018-07-17 22:39:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 333.06 Mbit/s

95th percentile per-packet one-way delay: 19.699 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 171.26 Mbit/s

95th percentile per-packet one-way delay: 19.538 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 174.04 Mbit/s

95th percentile per-packet one-way delay: 19.378 ms

Loss rate: 0.04%

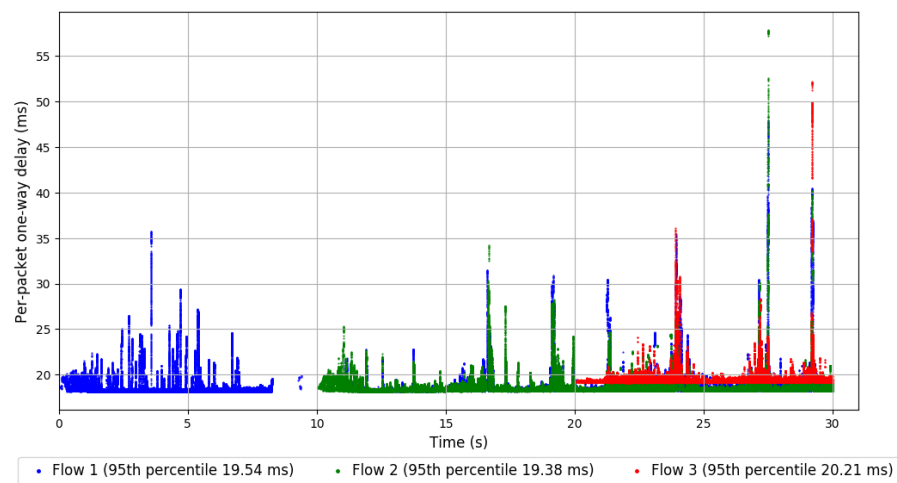
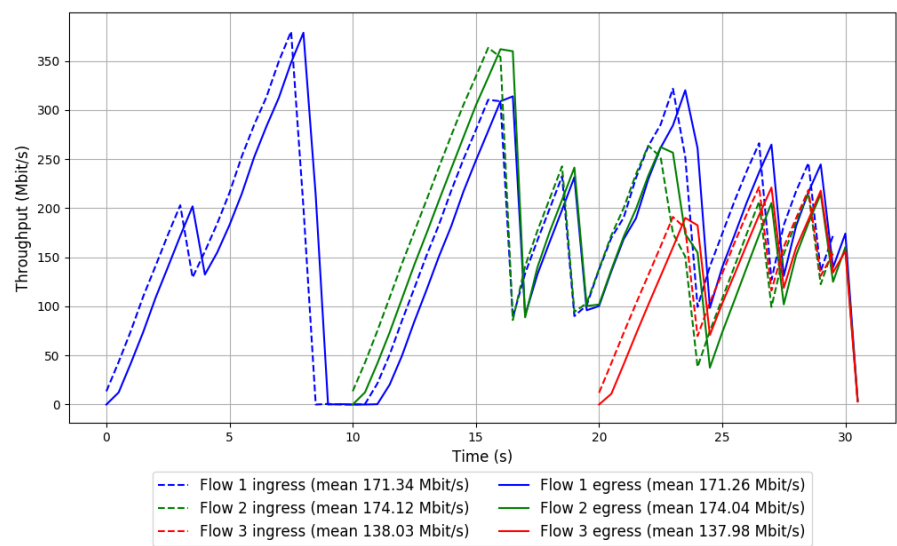
-- Flow 3:

Average throughput: 137.98 Mbit/s

95th percentile per-packet one-way delay: 20.206 ms

Loss rate: 0.03%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-07-17 16:40:00

End at: 2018-07-17 16:40:30

Local clock offset: -1.596 ms

Remote clock offset: 0.467 ms

Below is generated by plot.py at 2018-07-17 22:44:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 897.75 Mbit/s

95th percentile per-packet one-way delay: 29.052 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 726.92 Mbit/s

95th percentile per-packet one-way delay: 33.775 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 239.65 Mbit/s

95th percentile per-packet one-way delay: 19.198 ms

Loss rate: 0.39%

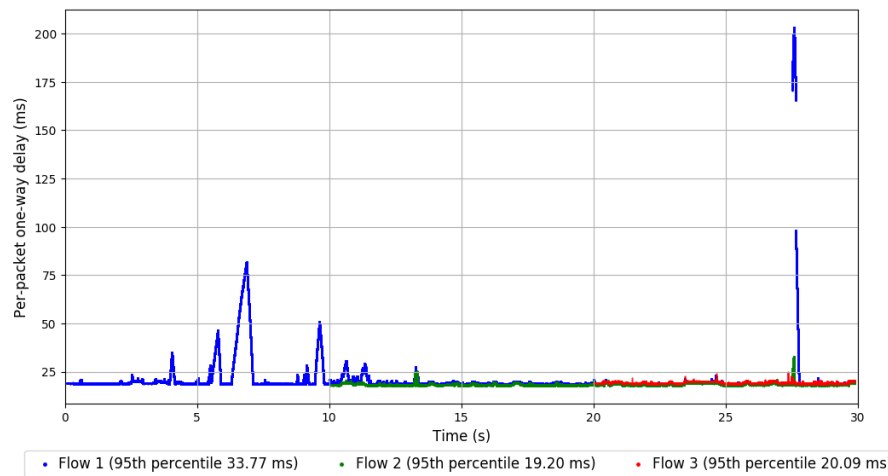
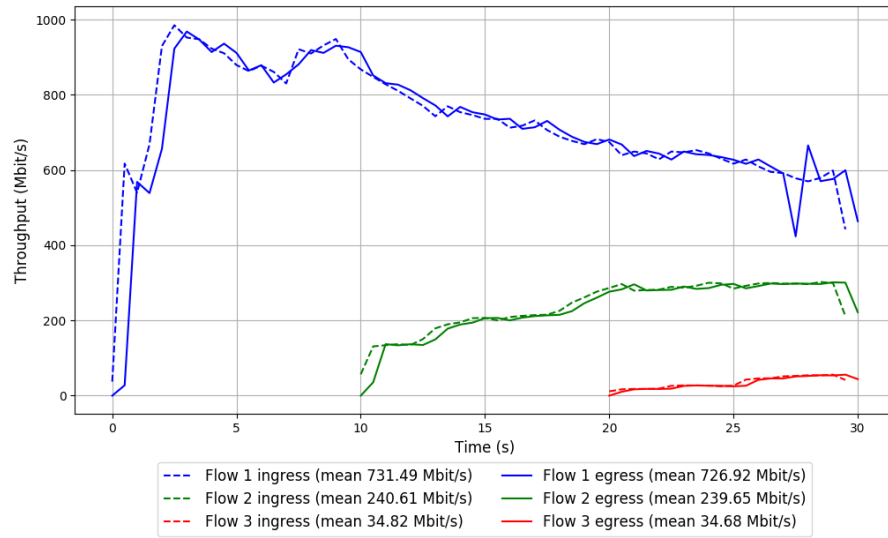
-- Flow 3:

Average throughput: 34.68 Mbit/s

95th percentile per-packet one-way delay: 20.093 ms

Loss rate: 0.39%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

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

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

Local clock offset: -4.579 ms

Remote clock offset: 1.063 ms

Below is generated by plot.py at 2018-07-17 22:45:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 924.30 Mbit/s

95th percentile per-packet one-way delay: 22.577 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 724.82 Mbit/s

95th percentile per-packet one-way delay: 23.351 ms

Loss rate: 0.81%

-- Flow 2:

Average throughput: 262.17 Mbit/s

95th percentile per-packet one-way delay: 20.133 ms

Loss rate: 0.26%

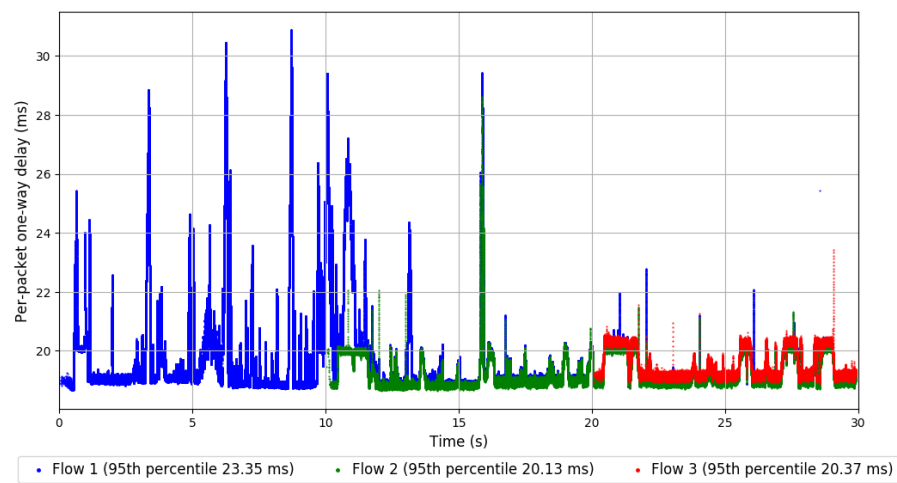
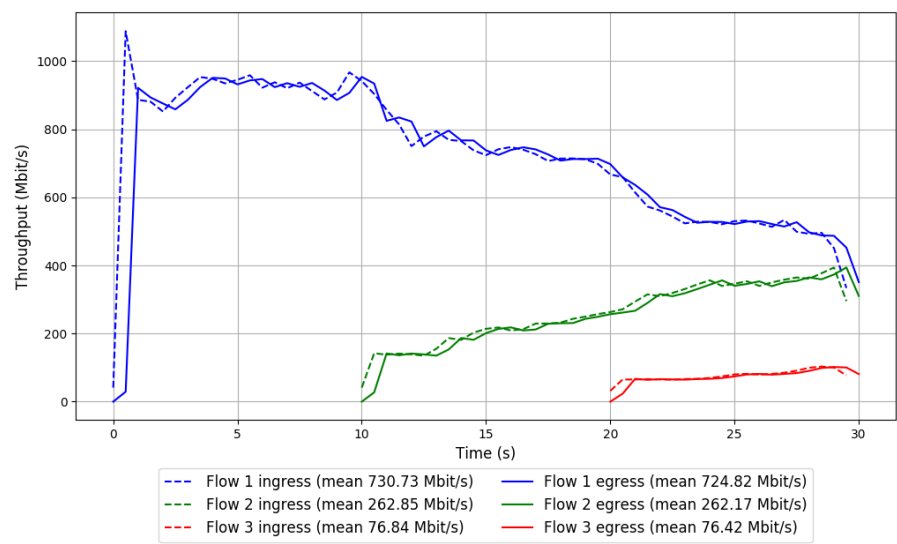
-- Flow 3:

Average throughput: 76.42 Mbit/s

95th percentile per-packet one-way delay: 20.369 ms

Loss rate: 0.55%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-07-17 17:34:33

End at: 2018-07-17 17:35:03

Local clock offset: 0.952 ms

Remote clock offset: 1.825 ms

Below is generated by plot.py at 2018-07-17 22:45:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 908.41 Mbit/s

95th percentile per-packet one-way delay: 20.532 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 788.72 Mbit/s

95th percentile per-packet one-way delay: 20.756 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 153.87 Mbit/s

95th percentile per-packet one-way delay: 19.449 ms

Loss rate: 0.27%

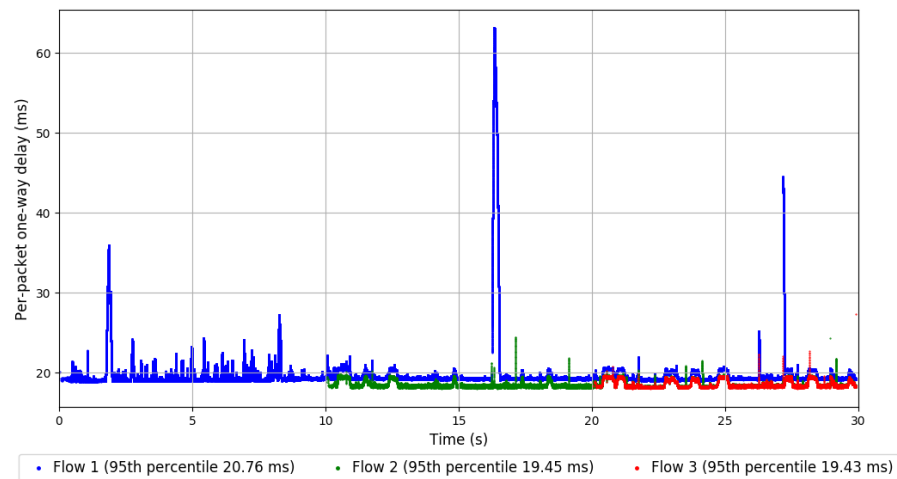
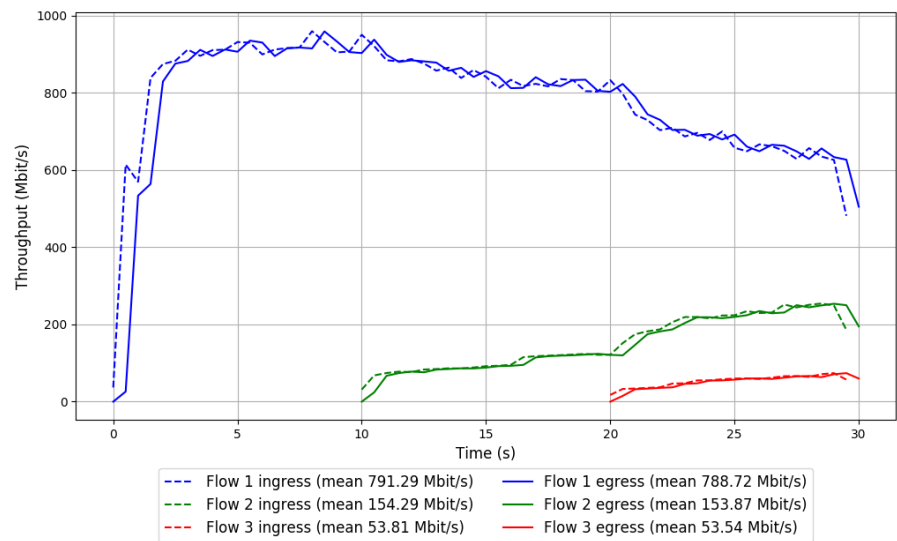
-- Flow 3:

Average throughput: 53.54 Mbit/s

95th percentile per-packet one-way delay: 19.432 ms

Loss rate: 0.41%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-07-17 18:02:00

End at: 2018-07-17 18:02:30

Local clock offset: 0.539 ms

Remote clock offset: 2.574 ms

Below is generated by plot.py at 2018-07-17 22:46:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 913.31 Mbit/s

95th percentile per-packet one-way delay: 20.187 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 785.32 Mbit/s

95th percentile per-packet one-way delay: 19.924 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 147.87 Mbit/s

95th percentile per-packet one-way delay: 20.283 ms

Loss rate: 0.40%

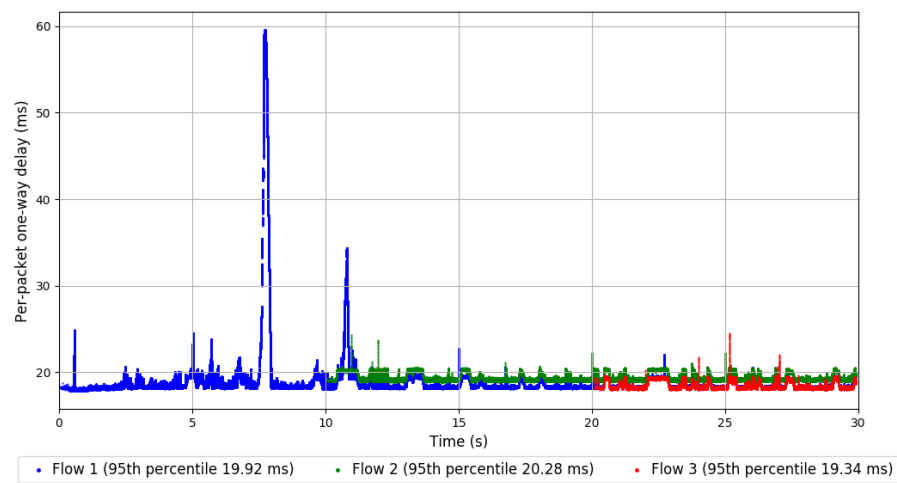
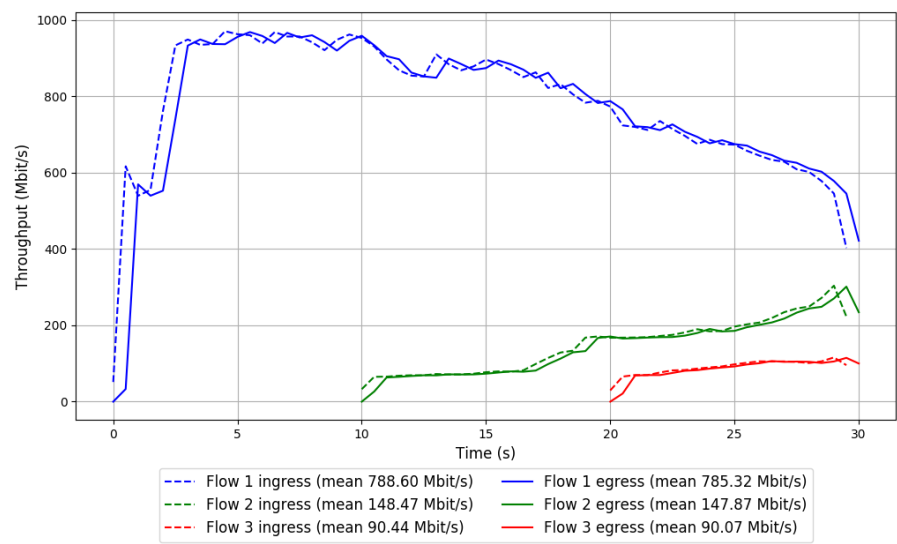
-- Flow 3:

Average throughput: 90.07 Mbit/s

95th percentile per-packet one-way delay: 19.344 ms

Loss rate: 0.42%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-07-17 18:29:12

End at: 2018-07-17 18:29:42

Local clock offset: 12.159 ms

Remote clock offset: 3.143 ms

Below is generated by plot.py at 2018-07-17 22:46:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 878.75 Mbit/s

95th percentile per-packet one-way delay: 20.062 ms

Loss rate: 1.70%

-- Flow 1:

Average throughput: 795.42 Mbit/s

95th percentile per-packet one-way delay: 20.231 ms

Loss rate: 1.80%

-- Flow 2:

Average throughput: 83.72 Mbit/s

95th percentile per-packet one-way delay: 19.633 ms

Loss rate: 0.96%

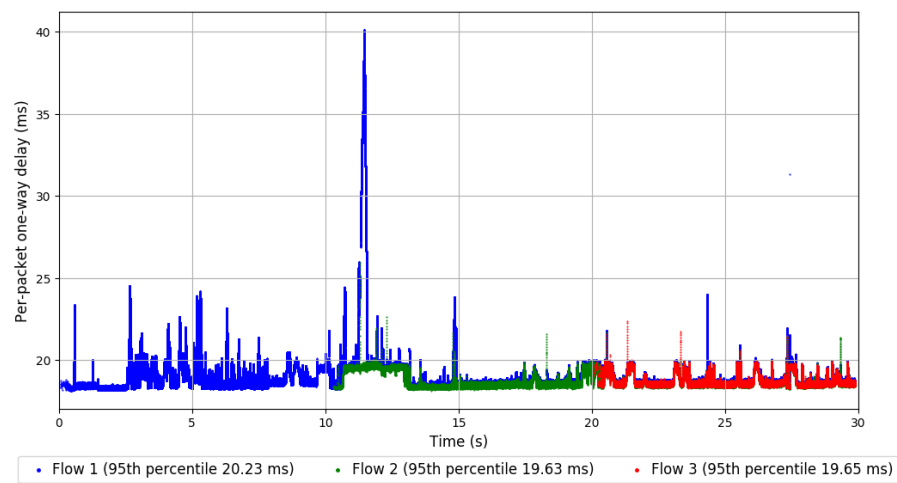
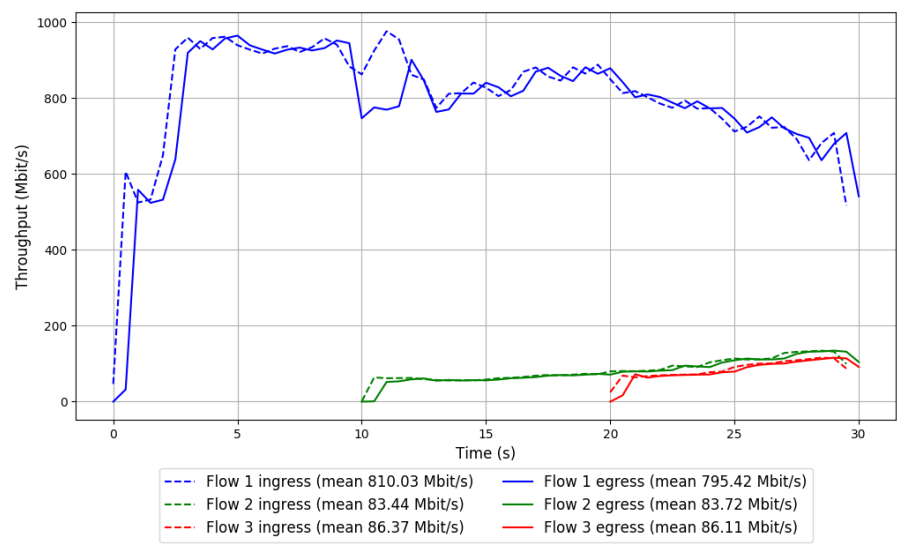
-- Flow 3:

Average throughput: 86.11 Mbit/s

95th percentile per-packet one-way delay: 19.649 ms

Loss rate: 0.30%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-07-17 18:56:22

End at: 2018-07-17 18:56:52

Local clock offset: 17.914 ms

Remote clock offset: 3.42 ms

Below is generated by plot.py at 2018-07-17 22:48:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 913.66 Mbit/s

95th percentile per-packet one-way delay: 19.672 ms

Loss rate: 1.51%

-- Flow 1:

Average throughput: 736.74 Mbit/s

95th percentile per-packet one-way delay: 19.860 ms

Loss rate: 1.37%

-- Flow 2:

Average throughput: 212.16 Mbit/s

95th percentile per-packet one-way delay: 19.062 ms

Loss rate: 1.79%

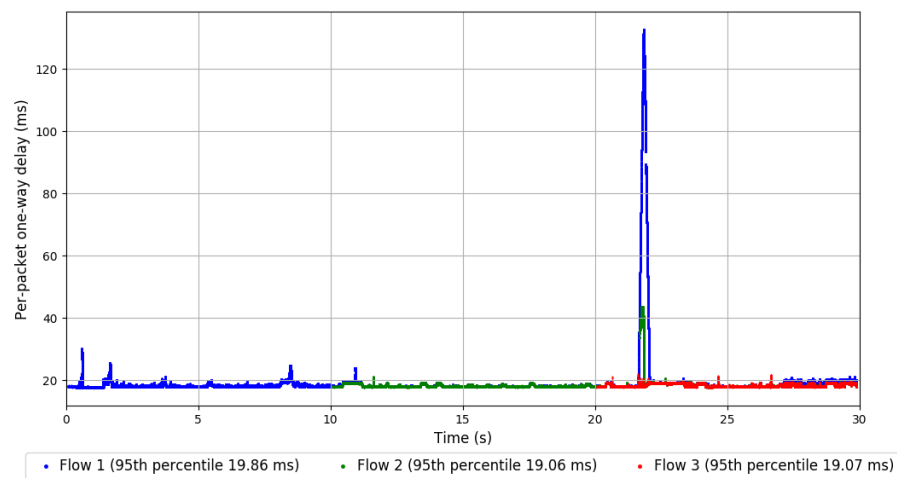
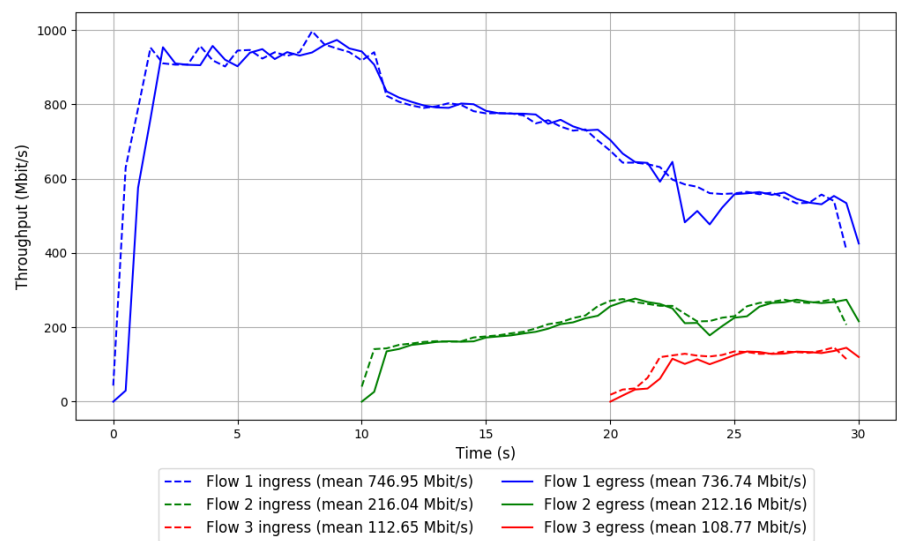
-- Flow 3:

Average throughput: 108.77 Mbit/s

95th percentile per-packet one-way delay: 19.065 ms

Loss rate: 3.43%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-07-17 19:23:24

End at: 2018-07-17 19:23:54

Local clock offset: 0.519 ms

Remote clock offset: 3.114 ms

Below is generated by plot.py at 2018-07-17 22:48:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 883.57 Mbit/s

95th percentile per-packet one-way delay: 18.944 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 813.18 Mbit/s

95th percentile per-packet one-way delay: 18.954 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 99.08 Mbit/s

95th percentile per-packet one-way delay: 18.773 ms

Loss rate: 0.20%

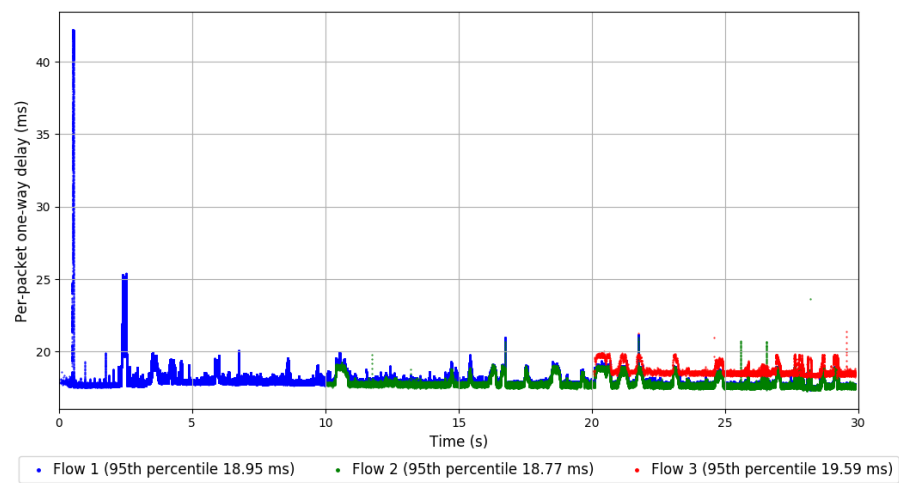
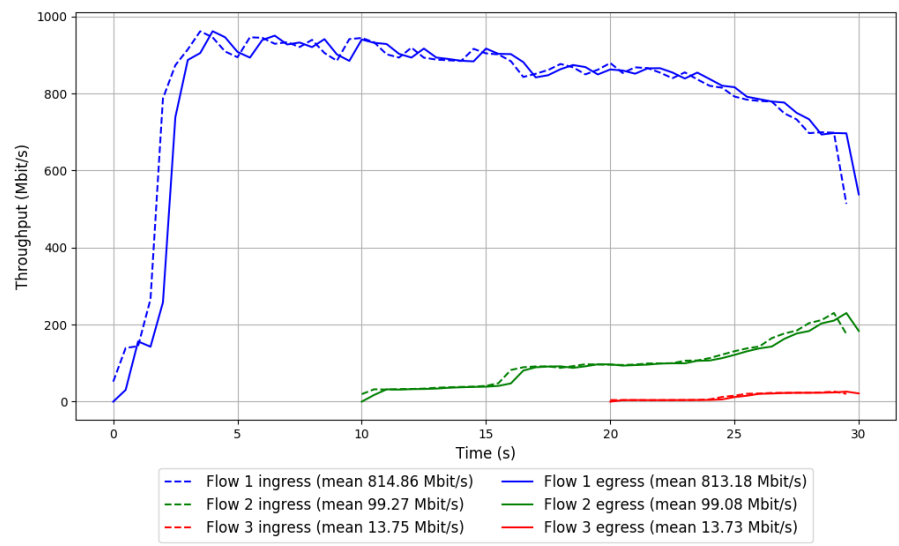
-- Flow 3:

Average throughput: 13.73 Mbit/s

95th percentile per-packet one-way delay: 19.592 ms

Loss rate: 0.16%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-07-17 19:50:33

End at: 2018-07-17 19:51:03

Local clock offset: -2.601 ms

Remote clock offset: 2.674 ms

Below is generated by plot.py at 2018-07-17 22:49:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 924.10 Mbit/s

95th percentile per-packet one-way delay: 20.597 ms

Loss rate: 1.28%

-- Flow 1:

Average throughput: 806.25 Mbit/s

95th percentile per-packet one-way delay: 20.690 ms

Loss rate: 1.40%

-- Flow 2:

Average throughput: 98.43 Mbit/s

95th percentile per-packet one-way delay: 20.375 ms

Loss rate: 0.49%

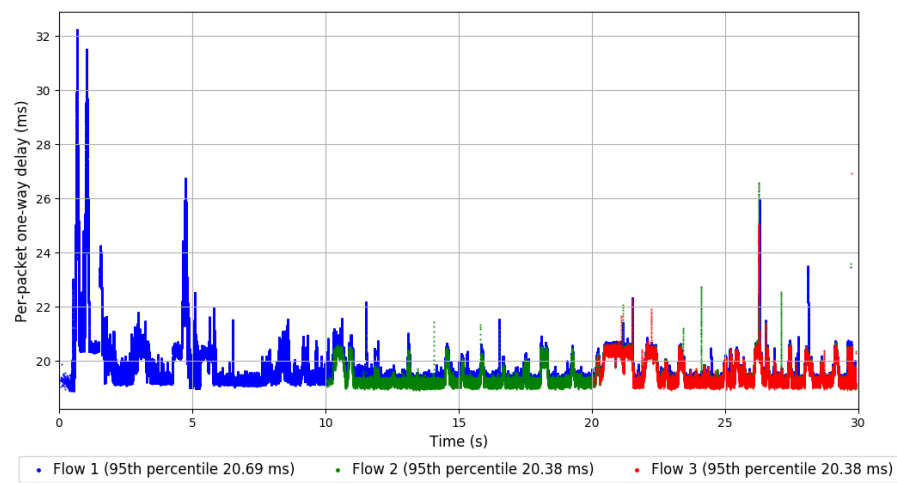
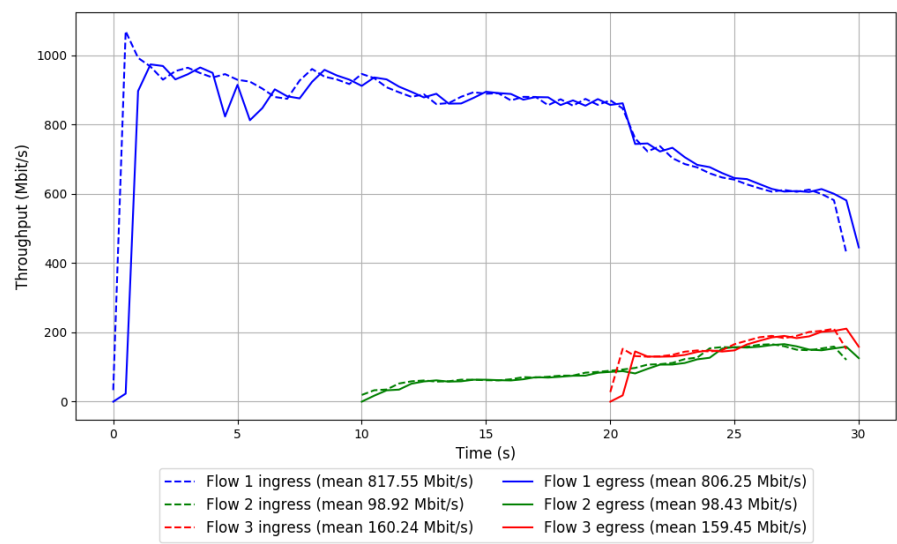
-- Flow 3:

Average throughput: 159.45 Mbit/s

95th percentile per-packet one-way delay: 20.380 ms

Loss rate: 0.49%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-07-17 20:17:52

End at: 2018-07-17 20:18:22

Local clock offset: -2.141 ms

Remote clock offset: 2.306 ms

Below is generated by plot.py at 2018-07-17 22:55:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 882.97 Mbit/s

95th percentile per-packet one-way delay: 19.741 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 849.19 Mbit/s

95th percentile per-packet one-way delay: 19.712 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 28.04 Mbit/s

95th percentile per-packet one-way delay: 20.452 ms

Loss rate: 0.37%

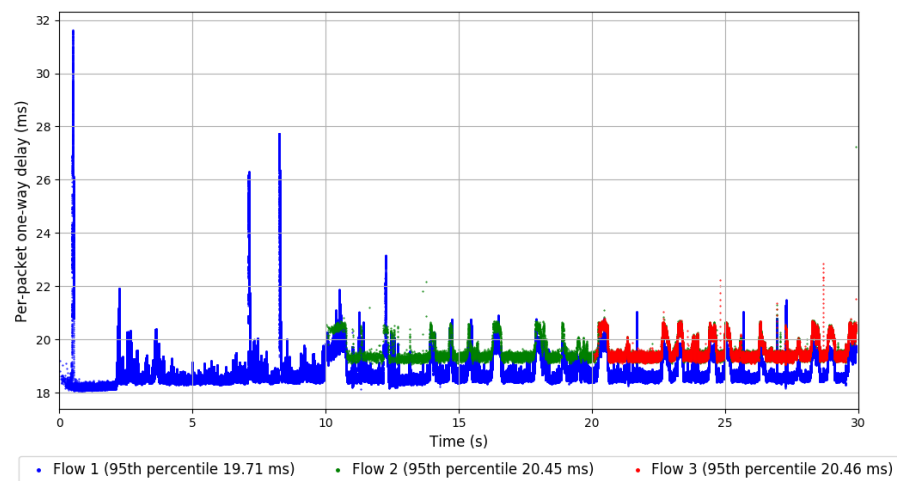
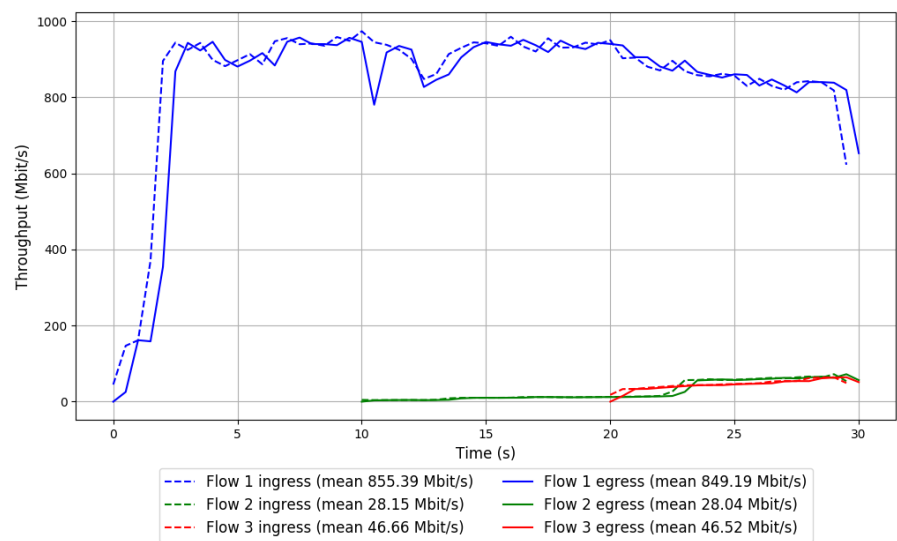
-- Flow 3:

Average throughput: 46.52 Mbit/s

95th percentile per-packet one-way delay: 20.457 ms

Loss rate: 0.27%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-07-17 20:45:00

End at: 2018-07-17 20:45:30

Local clock offset: -1.135 ms

Remote clock offset: 1.791 ms

Below is generated by plot.py at 2018-07-17 22:55:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 880.98 Mbit/s

95th percentile per-packet one-way delay: 19.672 ms

Loss rate: 1.24%

-- Flow 1:

Average throughput: 720.67 Mbit/s

95th percentile per-packet one-way delay: 19.680 ms

Loss rate: 1.05%

-- Flow 2:

Average throughput: 220.19 Mbit/s

95th percentile per-packet one-way delay: 19.632 ms

Loss rate: 1.93%

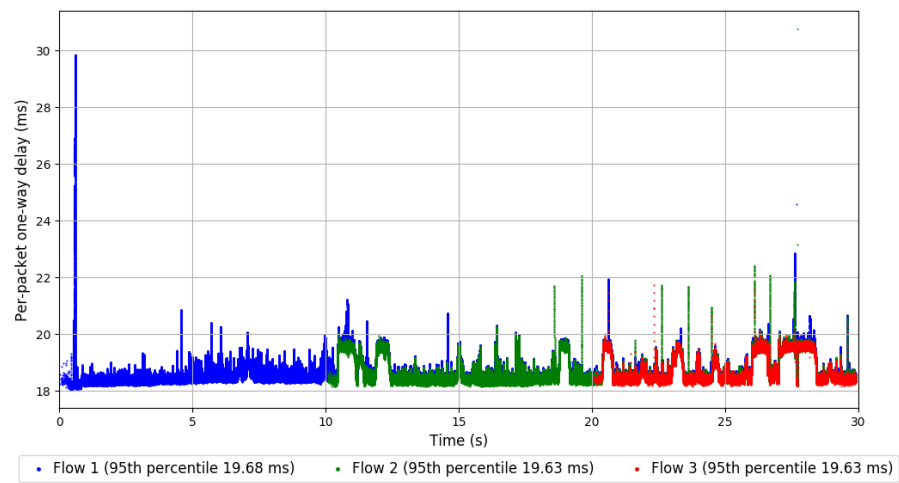
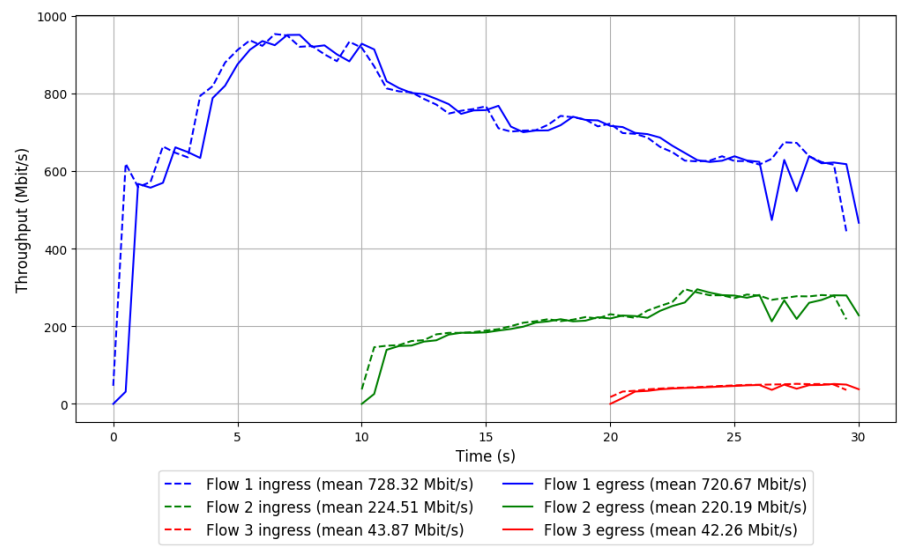
-- Flow 3:

Average throughput: 42.26 Mbit/s

95th percentile per-packet one-way delay: 19.631 ms

Loss rate: 3.68%

Run 10: Report of PCC-Allegro — Data Link

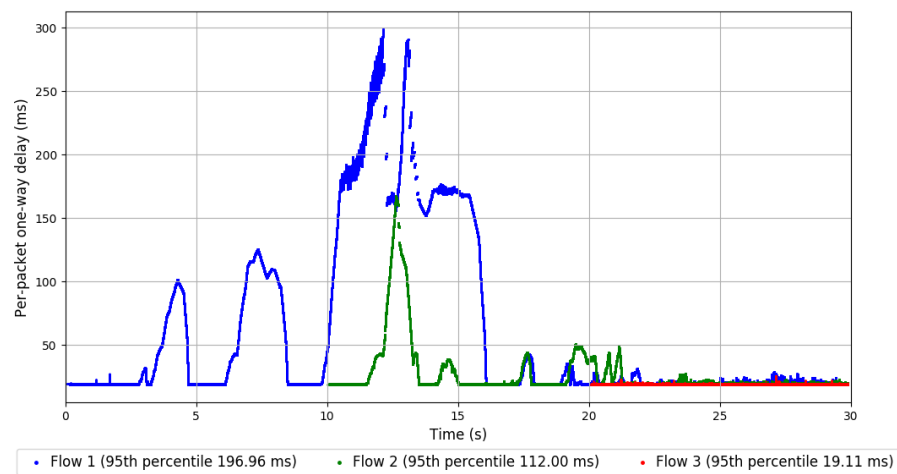
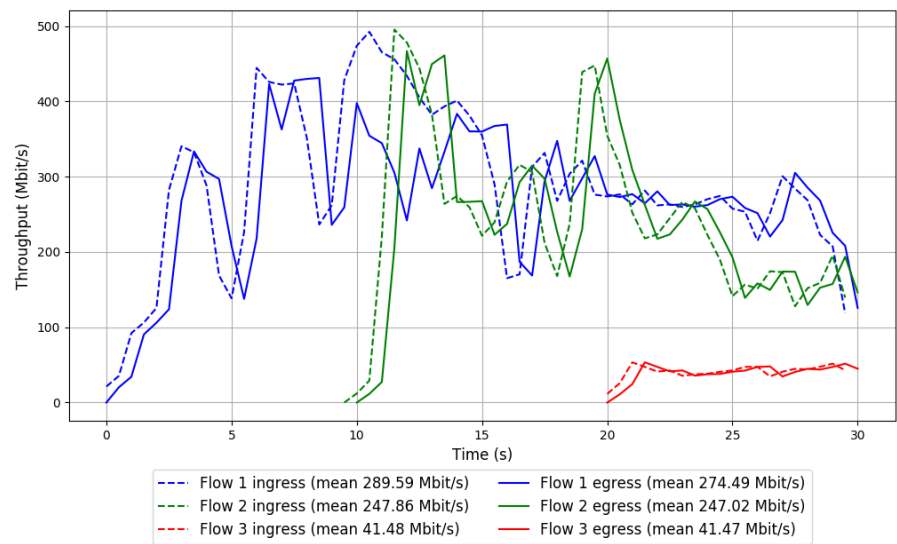


```
Run 1: Statistics of PCC-Expr

Start at: 2018-07-17 16:49:58
End at: 2018-07-17 16:50:28
Local clock offset: -3.191 ms
Remote clock offset: 0.683 ms

# Below is generated by plot.py at 2018-07-17 22:55:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 452.57 Mbit/s
95th percentile per-packet one-way delay: 178.083 ms
Loss rate: 3.35%
-- Flow 1:
Average throughput: 274.49 Mbit/s
95th percentile per-packet one-way delay: 196.960 ms
Loss rate: 5.22%
-- Flow 2:
Average throughput: 247.02 Mbit/s
95th percentile per-packet one-way delay: 111.996 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 41.47 Mbit/s
95th percentile per-packet one-way delay: 19.111 ms
Loss rate: 0.00%
```


Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

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

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

Local clock offset: -1.334 ms

Remote clock offset: 1.368 ms

Below is generated by plot.py at 2018-07-17 22:56:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 498.16 Mbit/s

95th percentile per-packet one-way delay: 173.365 ms

Loss rate: 1.45%

-- Flow 1:

Average throughput: 288.96 Mbit/s

95th percentile per-packet one-way delay: 170.521 ms

Loss rate: 1.61%

-- Flow 2:

Average throughput: 294.88 Mbit/s

95th percentile per-packet one-way delay: 175.288 ms

Loss rate: 1.31%

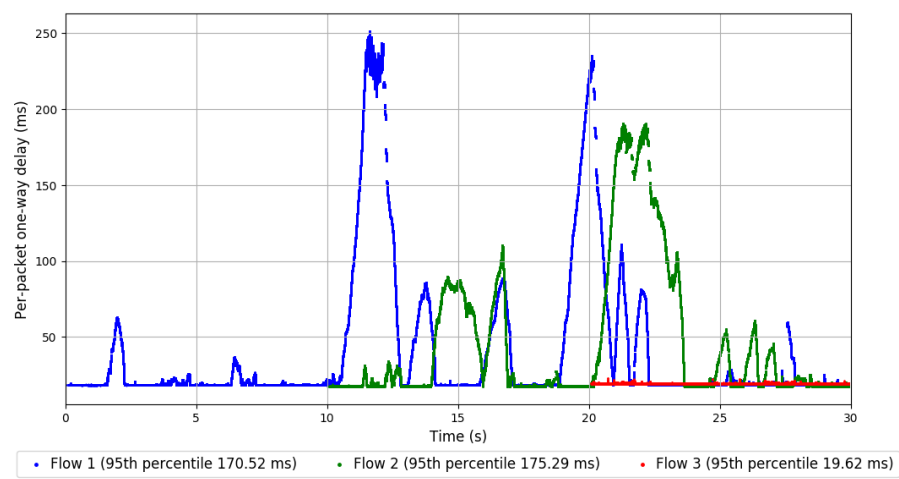
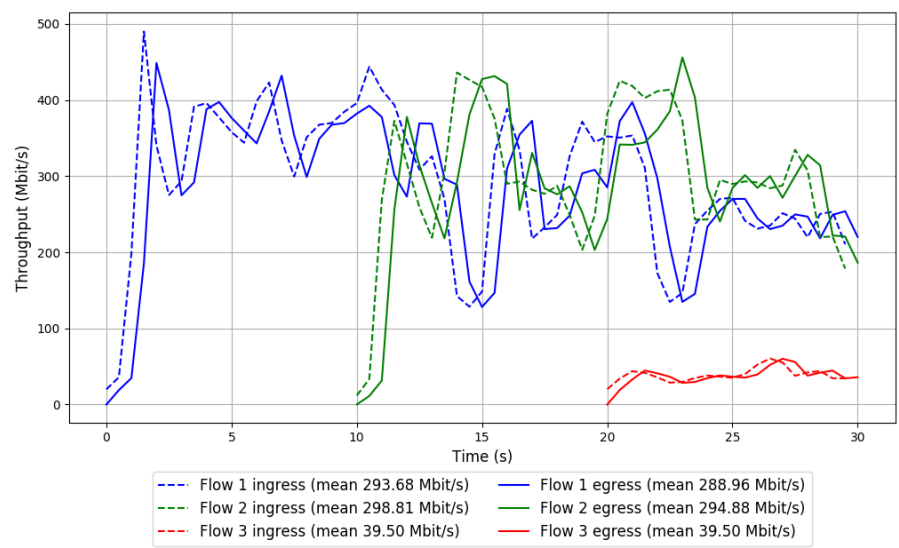
-- Flow 3:

Average throughput: 39.50 Mbit/s

95th percentile per-packet one-way delay: 19.620 ms

Loss rate: 0.00%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-07-17 17:44:38

End at: 2018-07-17 17:45:08

Local clock offset: 0.804 ms

Remote clock offset: 2.248 ms

Below is generated by plot.py at 2018-07-17 22:56:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 483.71 Mbit/s

95th percentile per-packet one-way delay: 174.657 ms

Loss rate: 3.32%

-- Flow 1:

Average throughput: 290.04 Mbit/s

95th percentile per-packet one-way delay: 202.398 ms

Loss rate: 5.42%

-- Flow 2:

Average throughput: 257.32 Mbit/s

95th percentile per-packet one-way delay: 97.538 ms

Loss rate: 0.00%

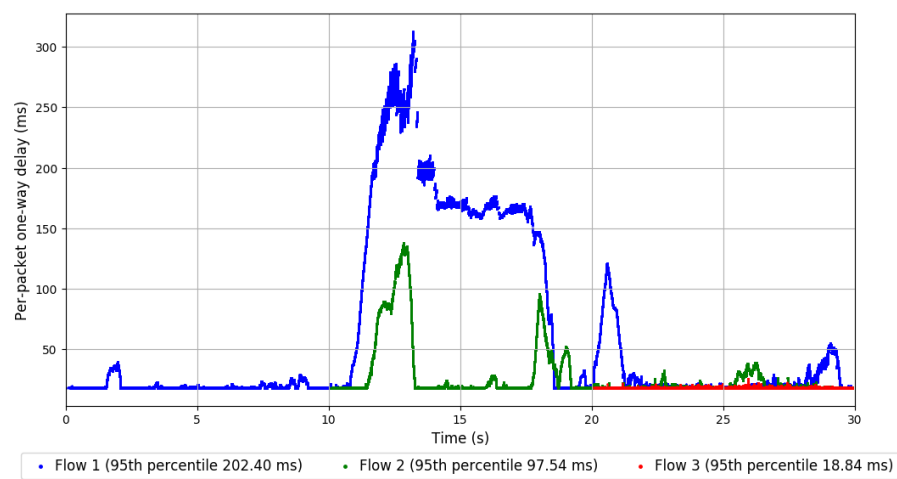
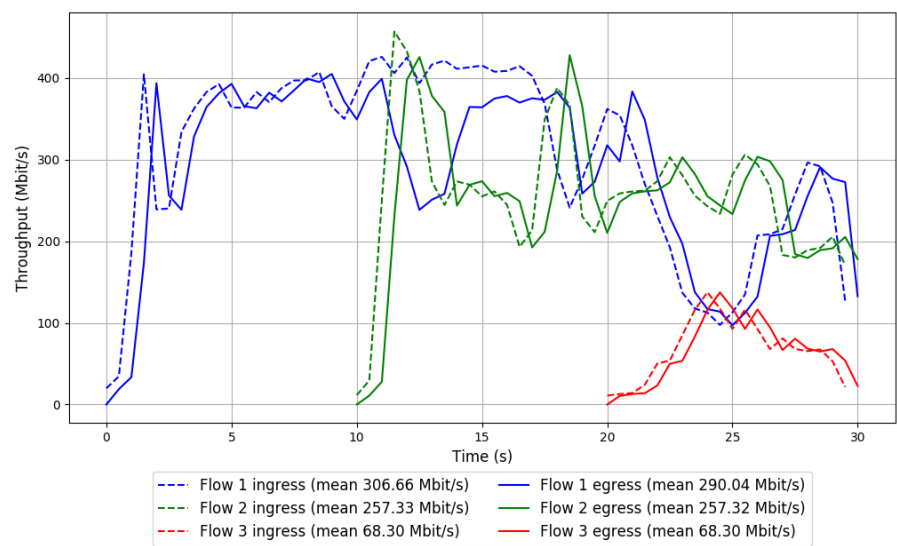
-- Flow 3:

Average throughput: 68.30 Mbit/s

95th percentile per-packet one-way delay: 18.839 ms

Loss rate: 0.00%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-07-17 18:11:52

End at: 2018-07-17 18:12:22

Local clock offset: 3.416 ms

Remote clock offset: 2.853 ms

Below is generated by plot.py at 2018-07-17 22:58:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 468.97 Mbit/s

95th percentile per-packet one-way delay: 59.935 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 278.43 Mbit/s

95th percentile per-packet one-way delay: 47.577 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 228.95 Mbit/s

95th percentile per-packet one-way delay: 76.012 ms

Loss rate: 0.01%

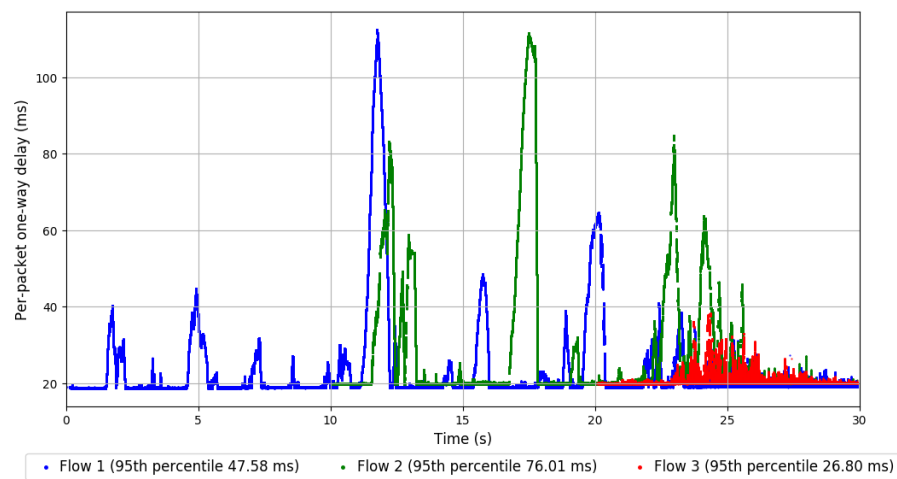
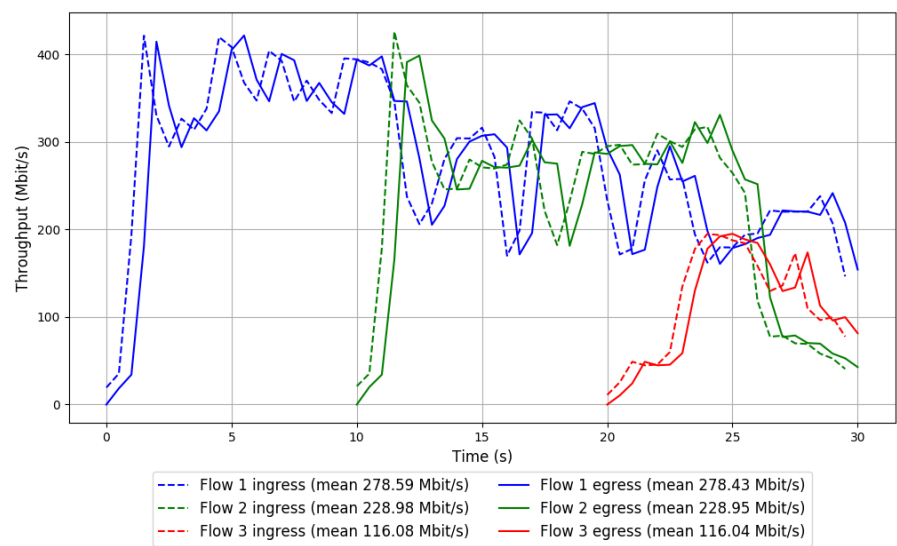
-- Flow 3:

Average throughput: 116.04 Mbit/s

95th percentile per-packet one-way delay: 26.798 ms

Loss rate: 0.04%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-07-17 18:39:07

End at: 2018-07-17 18:39:37

Local clock offset: 14.573 ms

Remote clock offset: 3.447 ms

Below is generated by plot.py at 2018-07-17 22:59:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 464.90 Mbit/s

95th percentile per-packet one-way delay: 47.015 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 270.41 Mbit/s

95th percentile per-packet one-way delay: 58.902 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 248.95 Mbit/s

95th percentile per-packet one-way delay: 30.025 ms

Loss rate: 0.43%

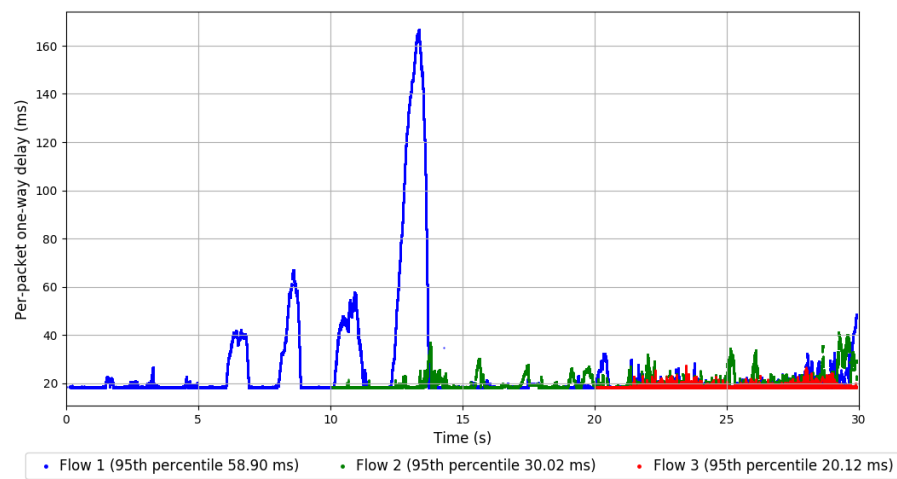
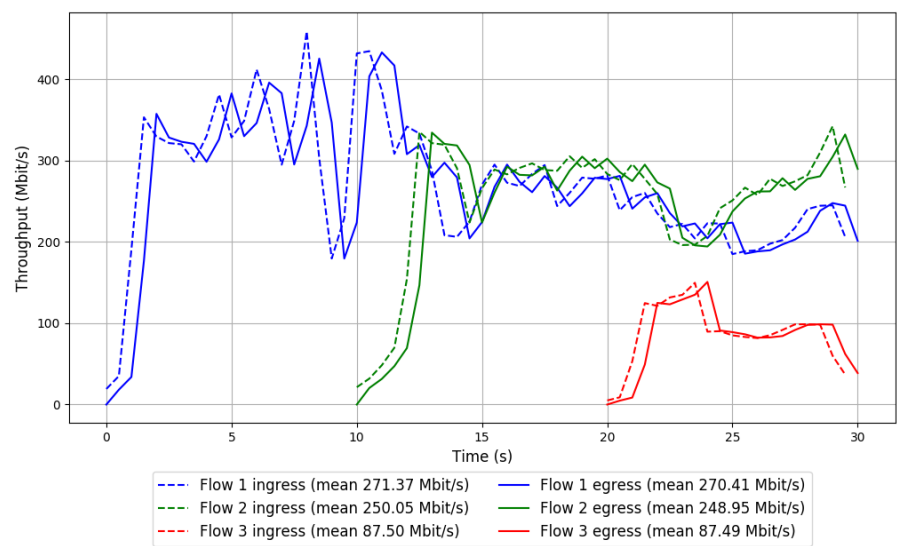
-- Flow 3:

Average throughput: 87.49 Mbit/s

95th percentile per-packet one-way delay: 20.122 ms

Loss rate: 0.01%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-07-17 19:06:13

End at: 2018-07-17 19:06:43

Local clock offset: 18.359 ms

Remote clock offset: 3.243 ms

Below is generated by plot.py at 2018-07-17 23:00:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 462.90 Mbit/s

95th percentile per-packet one-way delay: 66.788 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 307.08 Mbit/s

95th percentile per-packet one-way delay: 71.840 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 208.51 Mbit/s

95th percentile per-packet one-way delay: 52.238 ms

Loss rate: 0.01%

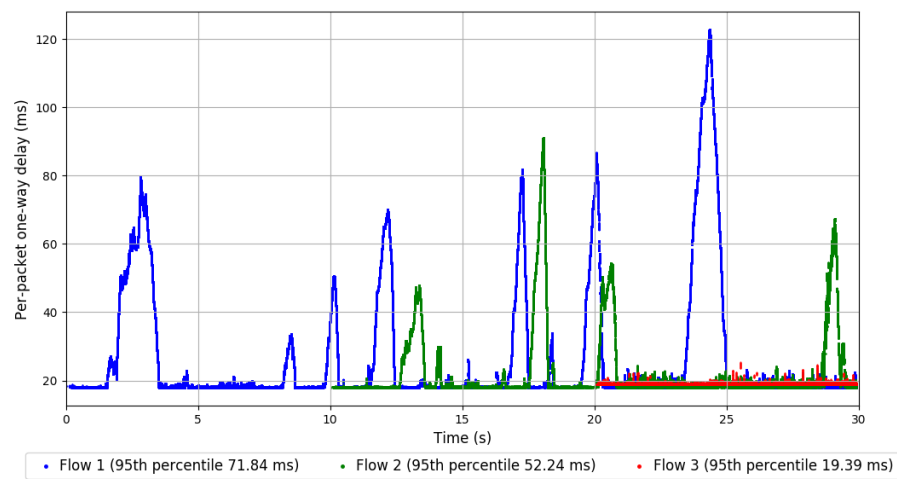
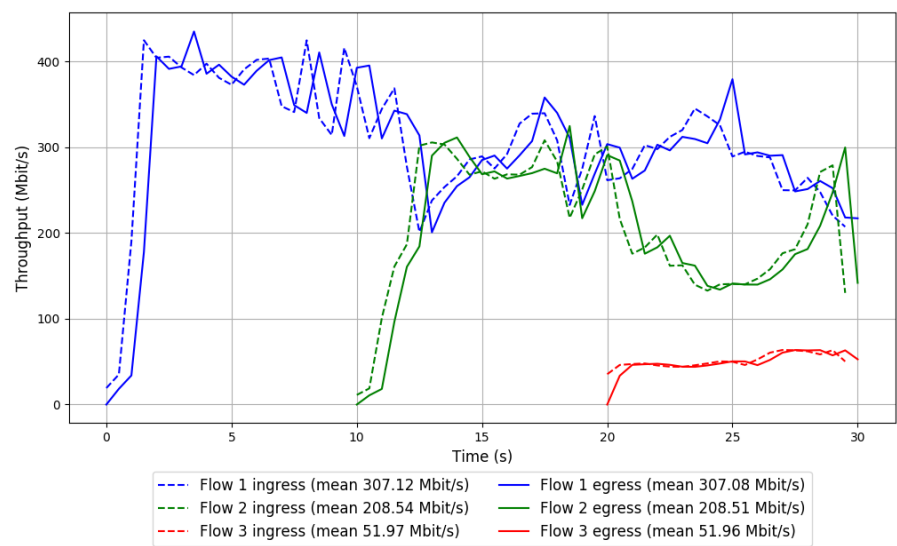
-- Flow 3:

Average throughput: 51.96 Mbit/s

95th percentile per-packet one-way delay: 19.389 ms

Loss rate: 0.01%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-07-17 19:33:09

End at: 2018-07-17 19:33:39

Local clock offset: -4.152 ms

Remote clock offset: 3.039 ms

Below is generated by plot.py at 2018-07-17 23:06:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 482.73 Mbit/s

95th percentile per-packet one-way delay: 112.116 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 286.66 Mbit/s

95th percentile per-packet one-way delay: 68.597 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 263.61 Mbit/s

95th percentile per-packet one-way delay: 148.476 ms

Loss rate: 0.47%

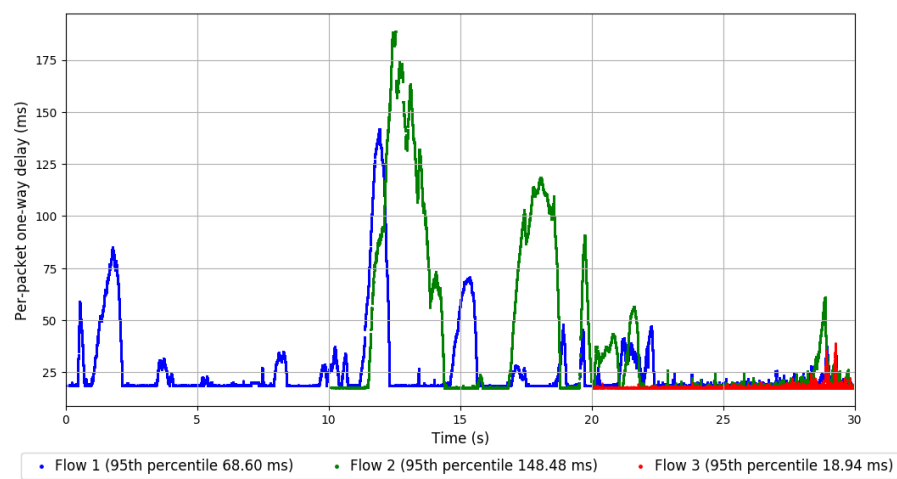
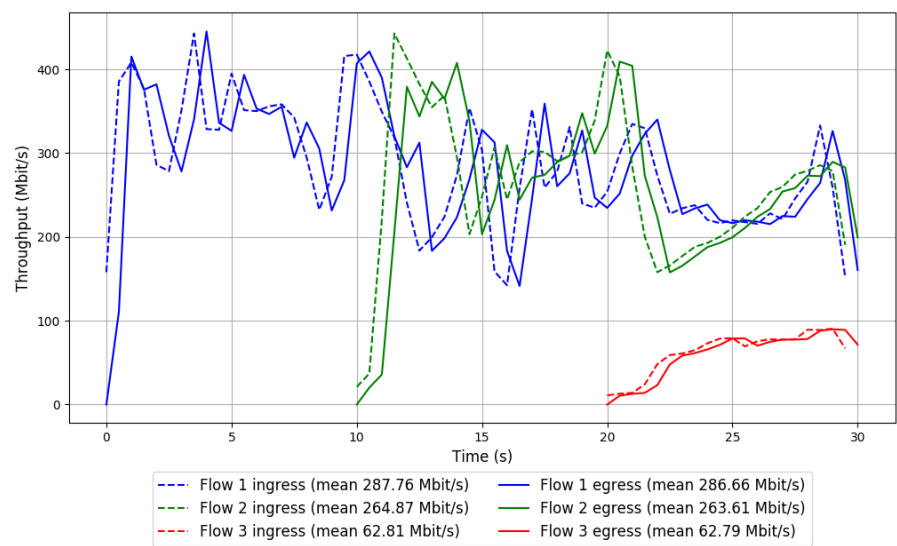
-- Flow 3:

Average throughput: 62.79 Mbit/s

95th percentile per-packet one-way delay: 18.937 ms

Loss rate: 0.00%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-07-17 20:00:27

End at: 2018-07-17 20:00:57

Local clock offset: -2.788 ms

Remote clock offset: 2.646 ms

Below is generated by plot.py at 2018-07-17 23:06:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 471.01 Mbit/s

95th percentile per-packet one-way delay: 104.408 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 290.98 Mbit/s

95th percentile per-packet one-way delay: 87.189 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 246.79 Mbit/s

95th percentile per-packet one-way delay: 128.193 ms

Loss rate: 0.52%

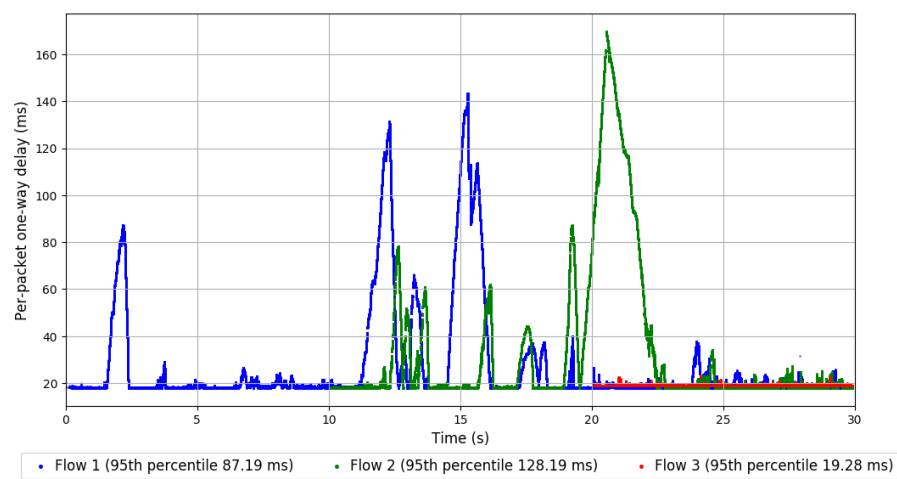
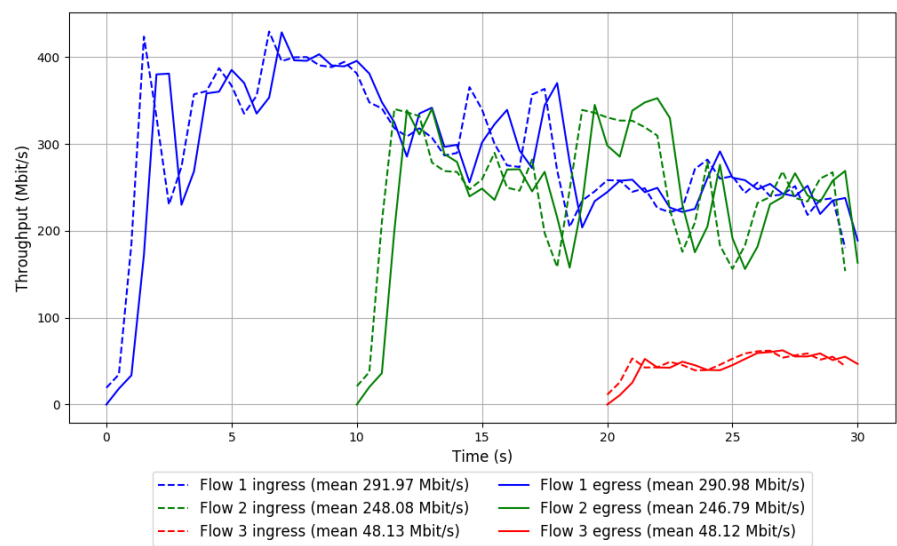
-- Flow 3:

Average throughput: 48.12 Mbit/s

95th percentile per-packet one-way delay: 19.277 ms

Loss rate: 0.01%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-07-17 20:27:53

End at: 2018-07-17 20:28:23

Local clock offset: -1.878 ms

Remote clock offset: 2.044 ms

Below is generated by plot.py at 2018-07-17 23:07:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 494.44 Mbit/s

95th percentile per-packet one-way delay: 163.530 ms

Loss rate: 1.34%

-- Flow 1:

Average throughput: 322.60 Mbit/s

95th percentile per-packet one-way delay: 165.713 ms

Loss rate: 1.58%

-- Flow 2:

Average throughput: 234.54 Mbit/s

95th percentile per-packet one-way delay: 158.742 ms

Loss rate: 0.97%

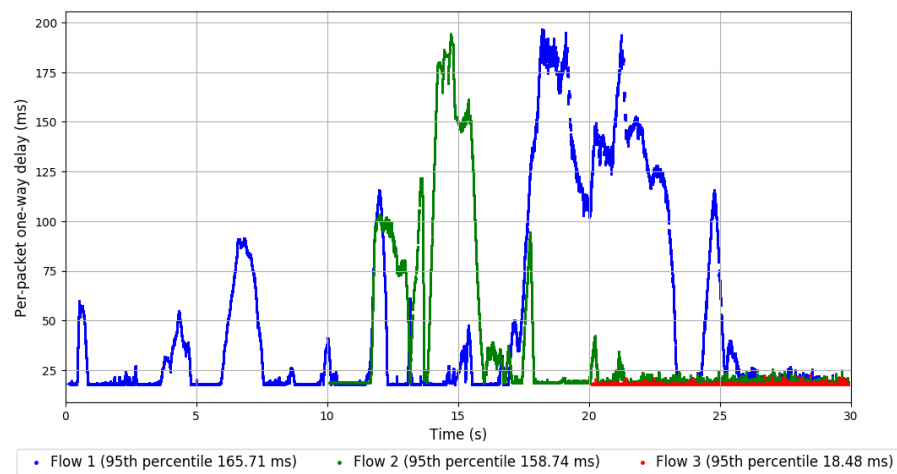
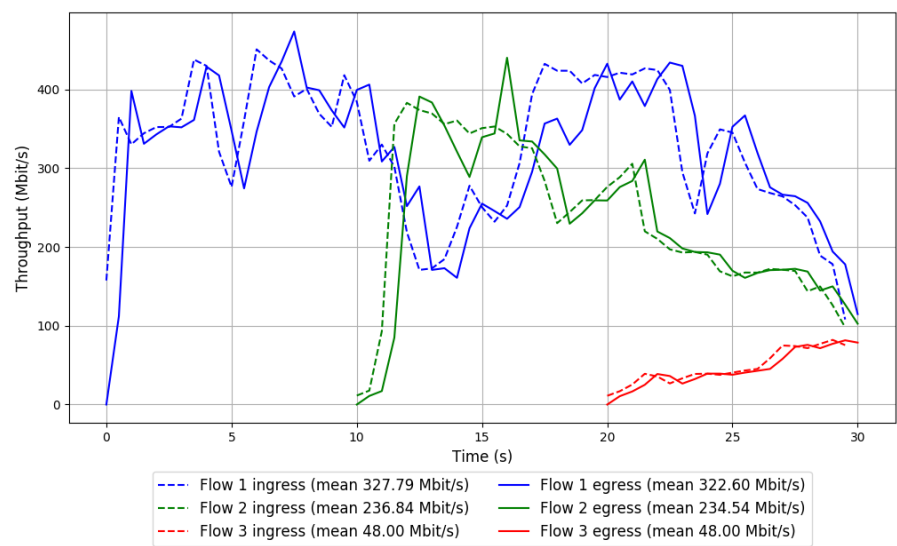
-- Flow 3:

Average throughput: 48.00 Mbit/s

95th percentile per-packet one-way delay: 18.477 ms

Loss rate: 0.00%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-07-17 20:54:51

End at: 2018-07-17 20:55:21

Local clock offset: -0.373 ms

Remote clock offset: 1.472 ms

Below is generated by plot.py at 2018-07-17 23:07:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 468.75 Mbit/s

95th percentile per-packet one-way delay: 75.147 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 288.25 Mbit/s

95th percentile per-packet one-way delay: 52.256 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 227.02 Mbit/s

95th percentile per-packet one-way delay: 155.400 ms

Loss rate: 0.20%

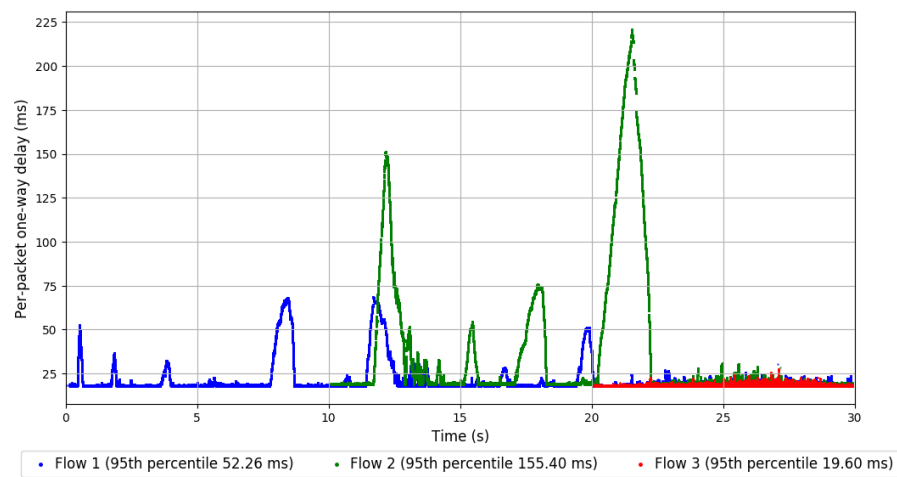
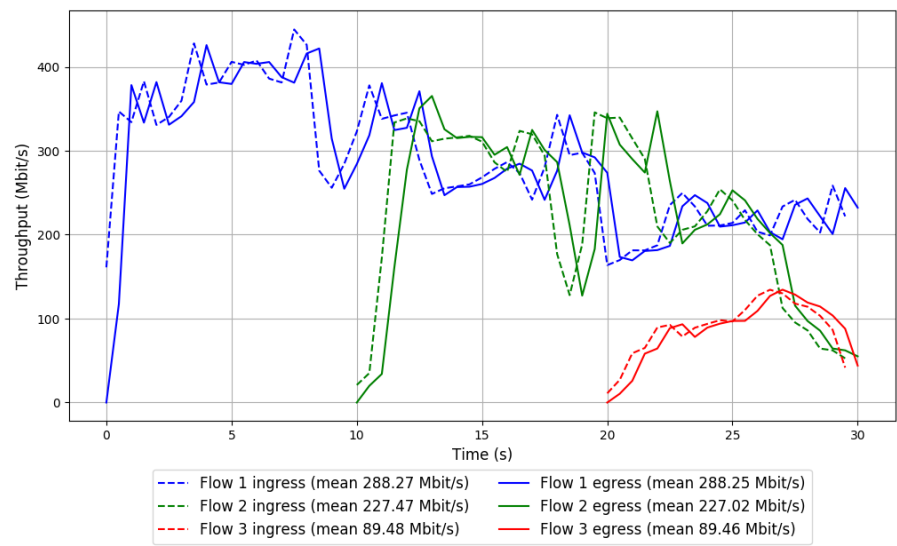
-- Flow 3:

Average throughput: 89.46 Mbit/s

95th percentile per-packet one-way delay: 19.596 ms

Loss rate: 0.02%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-07-17 16:58:04

End at: 2018-07-17 16:58:34

Local clock offset: -3.886 ms

Remote clock offset: 0.849 ms

Below is generated by plot.py at 2018-07-17 23:07:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 71.61 Mbit/s

95th percentile per-packet one-way delay: 18.665 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 18.830 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 73.62 Mbit/s

95th percentile per-packet one-way delay: 18.679 ms

Loss rate: 0.00%

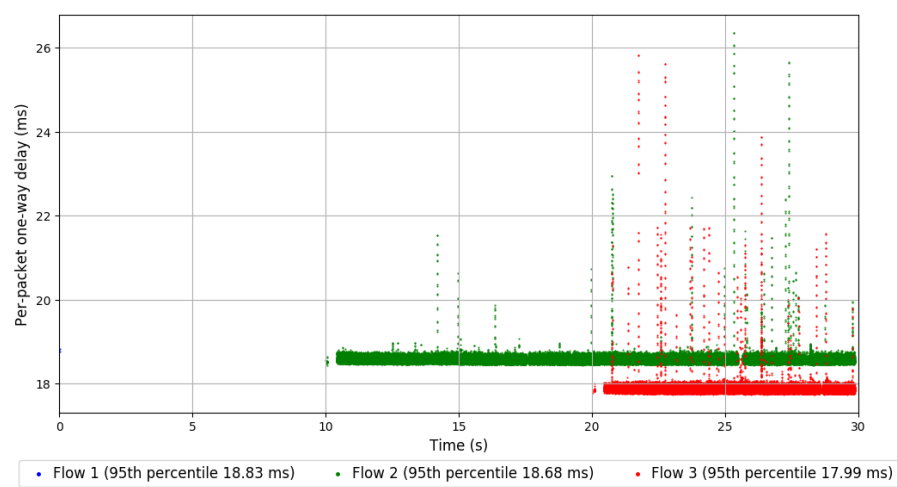
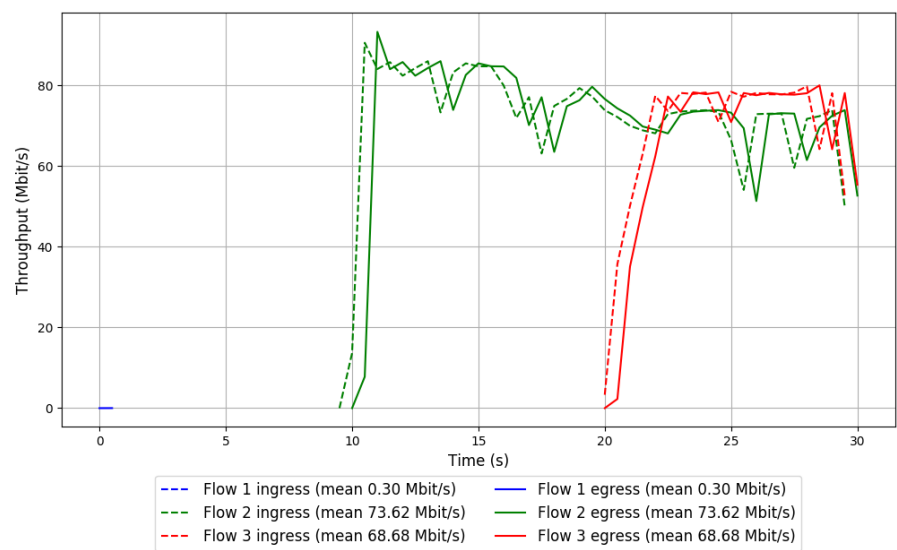
-- Flow 3:

Average throughput: 68.68 Mbit/s

95th percentile per-packet one-way delay: 17.987 ms

Loss rate: 0.00%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-07-17 17:25:21

End at: 2018-07-17 17:25:51

Local clock offset: 0.073 ms

Remote clock offset: 1.55 ms

Below is generated by plot.py at 2018-07-17 23:07:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 125.61 Mbit/s

95th percentile per-packet one-way delay: 19.916 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 66.12 Mbit/s

95th percentile per-packet one-way delay: 18.044 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 61.37 Mbit/s

95th percentile per-packet one-way delay: 17.690 ms

Loss rate: 0.00%

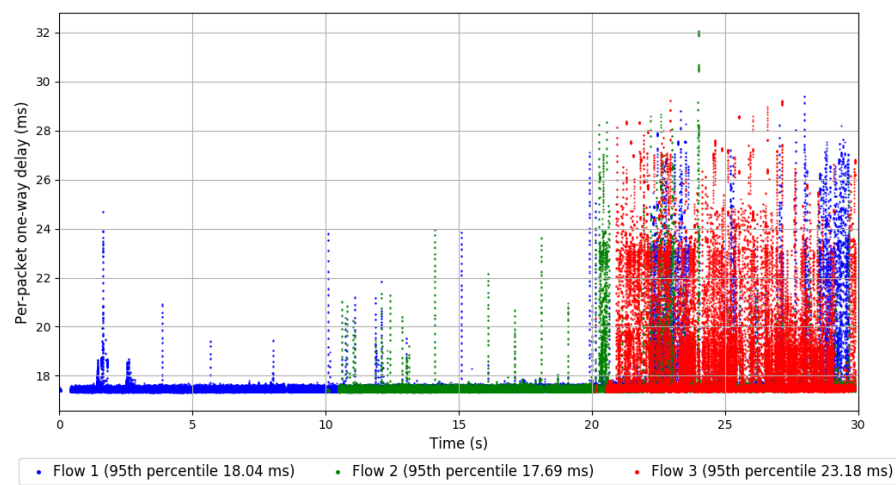
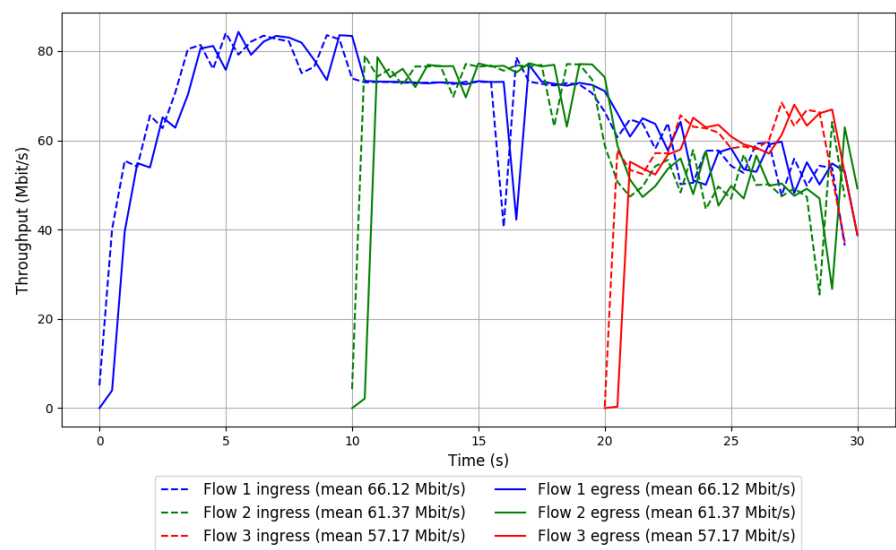
-- Flow 3:

Average throughput: 57.17 Mbit/s

95th percentile per-packet one-way delay: 23.183 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-07-17 17:52:49

End at: 2018-07-17 17:53:19

Local clock offset: 0.559 ms

Remote clock offset: 2.455 ms

Below is generated by plot.py at 2018-07-17 23:07:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 120.30 Mbit/s

95th percentile per-packet one-way delay: 20.861 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 60.18 Mbit/s

95th percentile per-packet one-way delay: 19.070 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 65.30 Mbit/s

95th percentile per-packet one-way delay: 21.597 ms

Loss rate: 0.01%

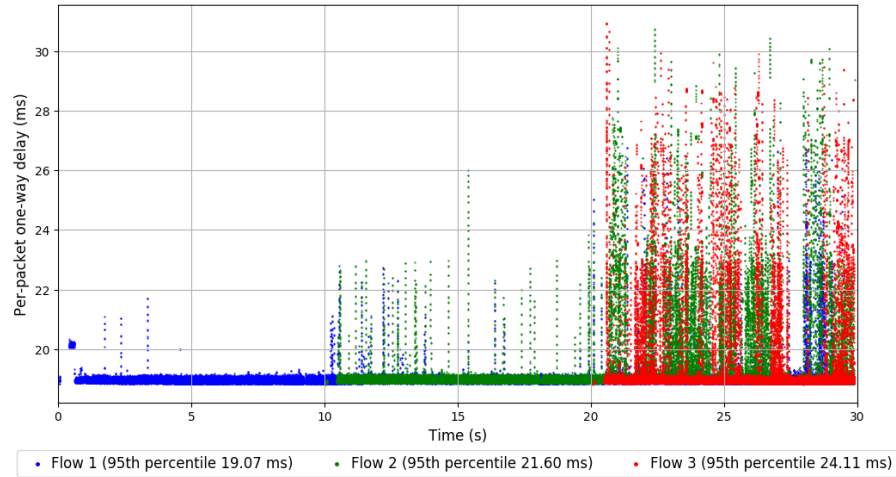
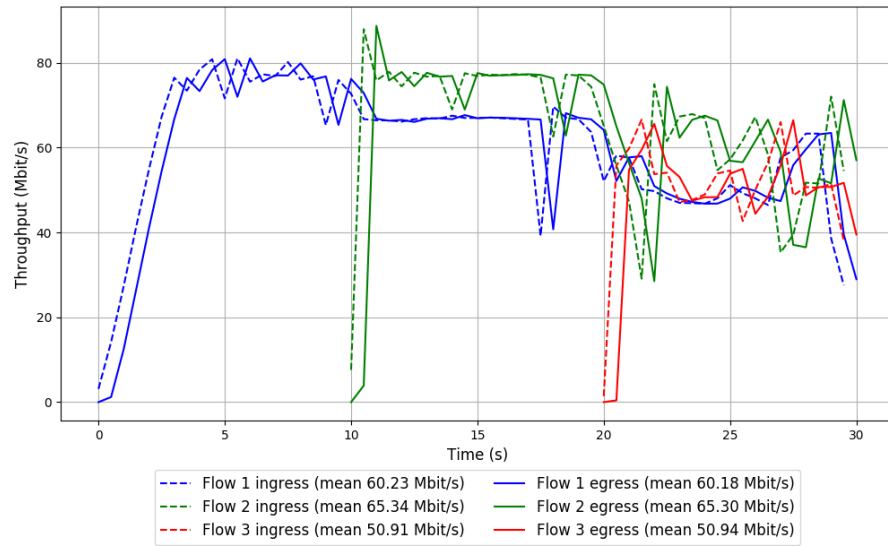
-- Flow 3:

Average throughput: 50.94 Mbit/s

95th percentile per-packet one-way delay: 24.113 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-07-17 18:19:56

End at: 2018-07-17 18:20:26

Local clock offset: 8.844 ms

Remote clock offset: 3.049 ms

Below is generated by plot.py at 2018-07-17 23:07:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 123.86 Mbit/s

95th percentile per-packet one-way delay: 19.693 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 67.63 Mbit/s

95th percentile per-packet one-way delay: 19.631 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 58.99 Mbit/s

95th percentile per-packet one-way delay: 19.348 ms

Loss rate: 0.11%

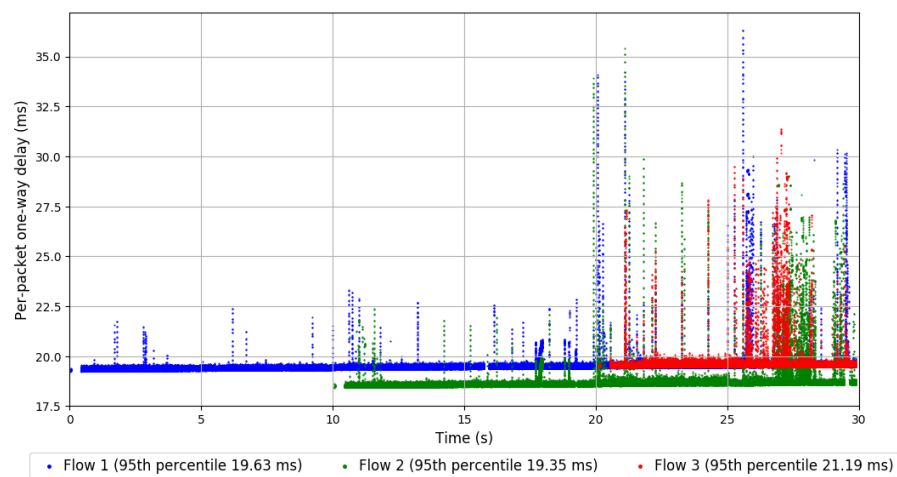
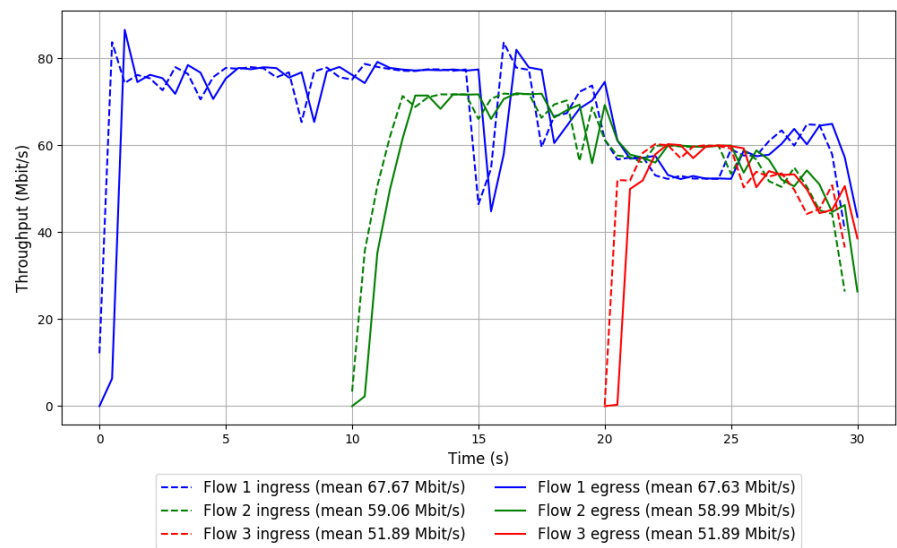
-- Flow 3:

Average throughput: 51.89 Mbit/s

95th percentile per-packet one-way delay: 21.191 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-07-17 18:47:14

End at: 2018-07-17 18:47:44

Local clock offset: 16.107 ms

Remote clock offset: 3.503 ms

Below is generated by plot.py at 2018-07-17 23:07:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 120.49 Mbit/s

95th percentile per-packet one-way delay: 20.558 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 68.08 Mbit/s

95th percentile per-packet one-way delay: 19.012 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 56.44 Mbit/s

95th percentile per-packet one-way delay: 20.455 ms

Loss rate: 0.31%

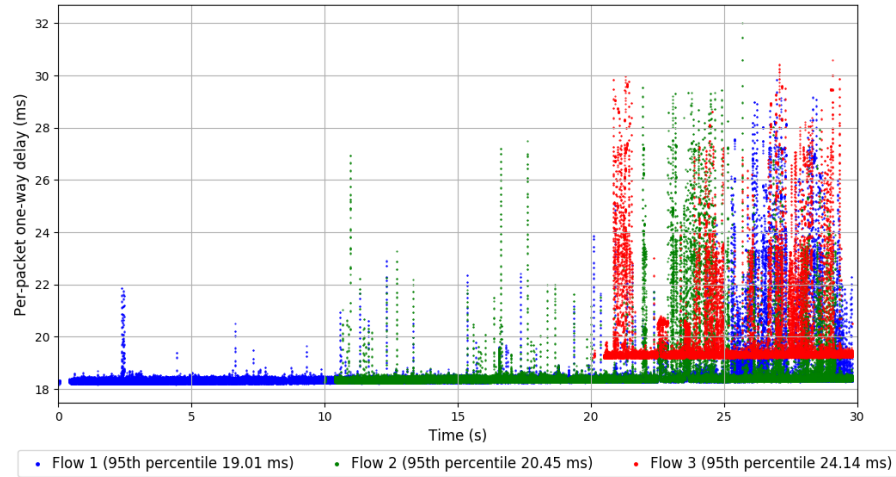
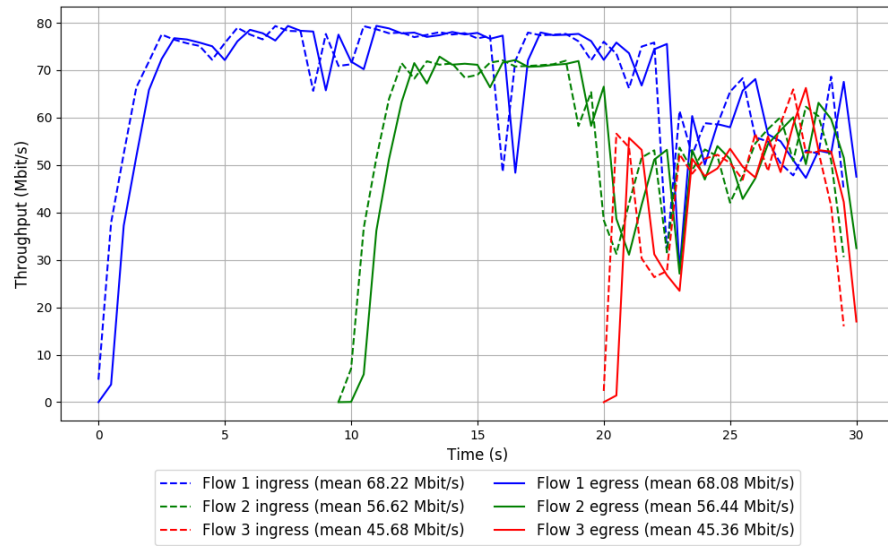
-- Flow 3:

Average throughput: 45.36 Mbit/s

95th percentile per-packet one-way delay: 24.138 ms

Loss rate: 0.70%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-07-17 19:14:16

End at: 2018-07-17 19:14:46

Local clock offset: 9.249 ms

Remote clock offset: 3.254 ms

Below is generated by plot.py at 2018-07-17 23:07:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 122.98 Mbit/s

95th percentile per-packet one-way delay: 18.385 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 67.84 Mbit/s

95th percentile per-packet one-way delay: 17.986 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 59.15 Mbit/s

95th percentile per-packet one-way delay: 18.863 ms

Loss rate: 0.09%

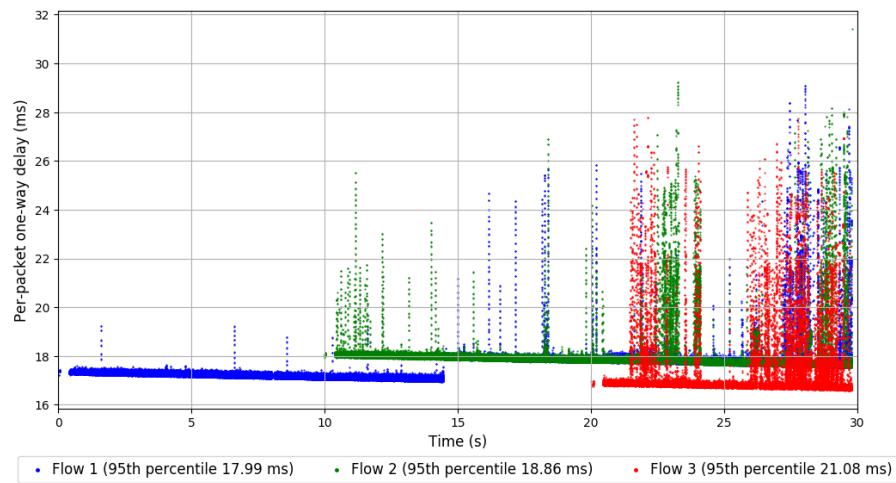
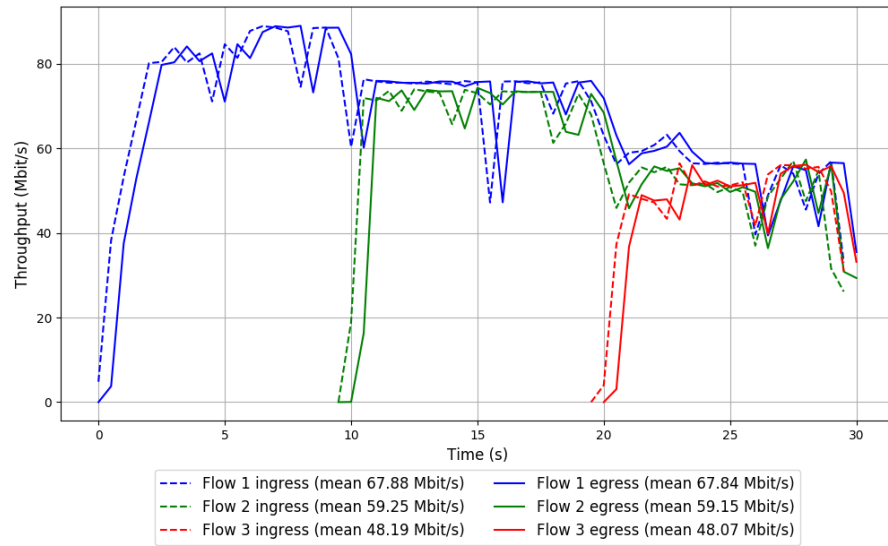
-- Flow 3:

Average throughput: 48.07 Mbit/s

95th percentile per-packet one-way delay: 21.078 ms

Loss rate: 0.26%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-07-17 19:41:16

End at: 2018-07-17 19:41:46

Local clock offset: -5.039 ms

Remote clock offset: 2.915 ms

Below is generated by plot.py at 2018-07-17 23:07:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 121.14 Mbit/s

95th percentile per-packet one-way delay: 20.327 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 64.72 Mbit/s

95th percentile per-packet one-way delay: 19.654 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 59.42 Mbit/s

95th percentile per-packet one-way delay: 19.209 ms

Loss rate: 0.02%

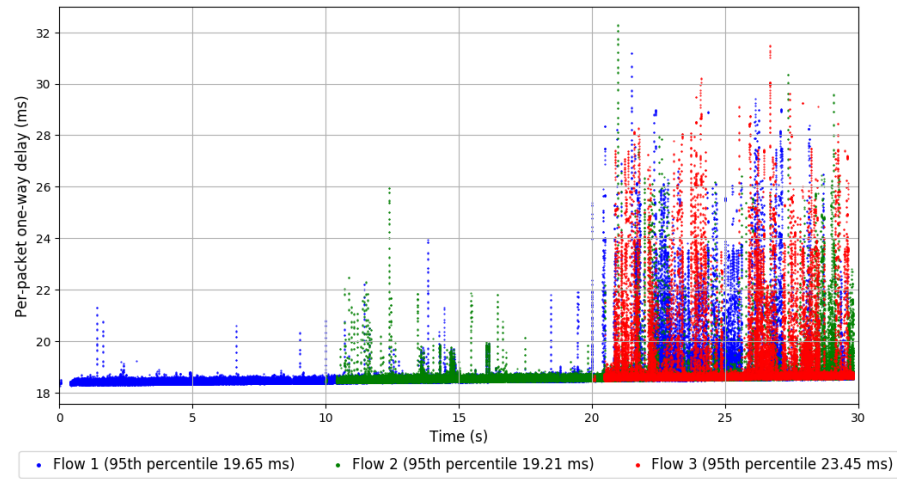
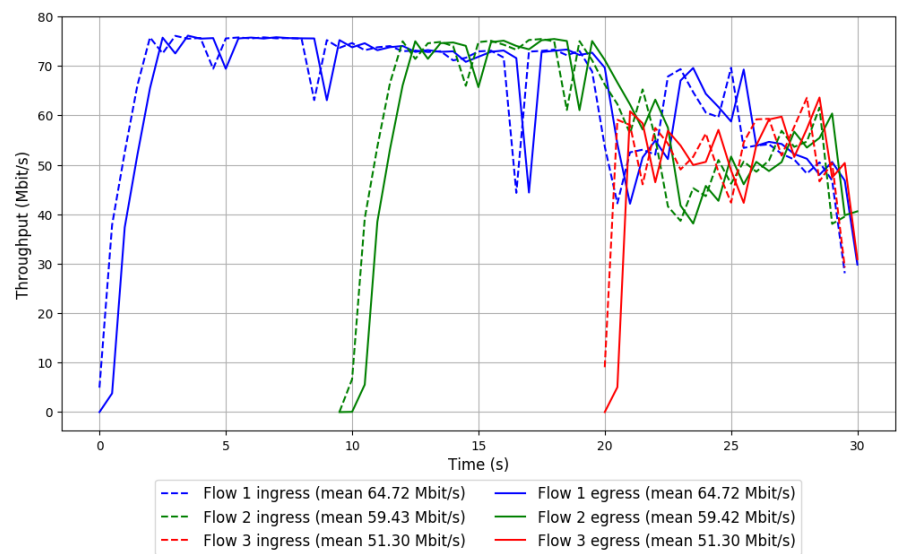
-- Flow 3:

Average throughput: 51.30 Mbit/s

95th percentile per-packet one-way delay: 23.455 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-07-17 20:08:34

End at: 2018-07-17 20:09:04

Local clock offset: -3.698 ms

Remote clock offset: 2.511 ms

Below is generated by plot.py at 2018-07-17 23:07:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 121.28 Mbit/s

95th percentile per-packet one-way delay: 20.526 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 63.64 Mbit/s

95th percentile per-packet one-way delay: 19.683 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 60.91 Mbit/s

95th percentile per-packet one-way delay: 19.527 ms

Loss rate: 0.01%

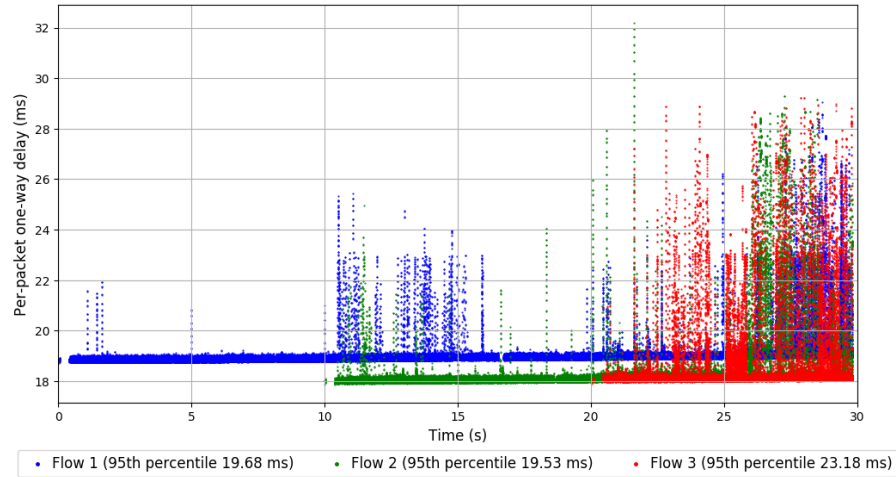
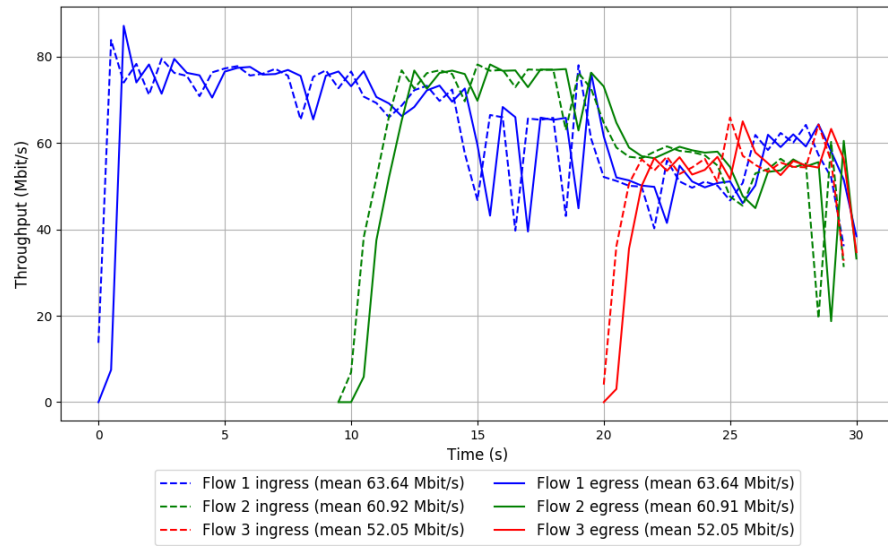
-- Flow 3:

Average throughput: 52.05 Mbit/s

95th percentile per-packet one-way delay: 23.176 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-07-17 20:35:57

End at: 2018-07-17 20:36:27

Local clock offset: -2.381 ms

Remote clock offset: 1.907 ms

Below is generated by plot.py at 2018-07-17 23:07:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 125.25 Mbit/s

95th percentile per-packet one-way delay: 21.165 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 65.85 Mbit/s

95th percentile per-packet one-way delay: 19.538 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 65.02 Mbit/s

95th percentile per-packet one-way delay: 21.200 ms

Loss rate: 0.02%

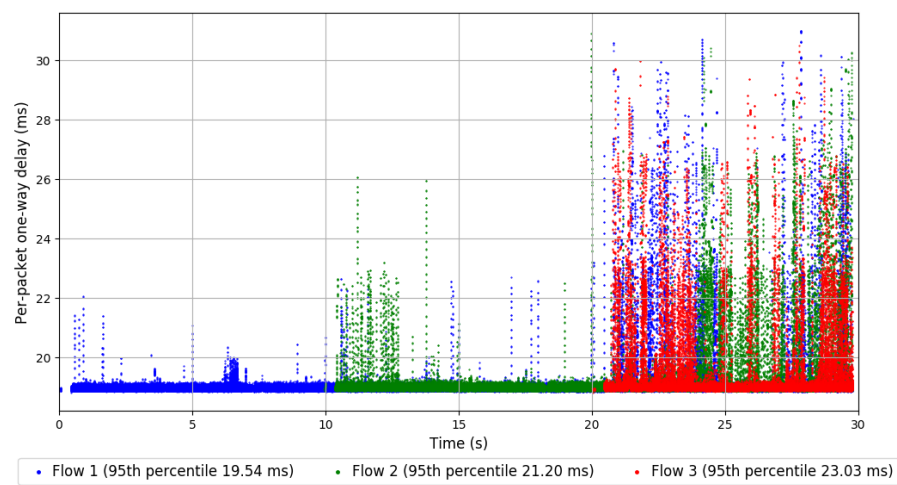
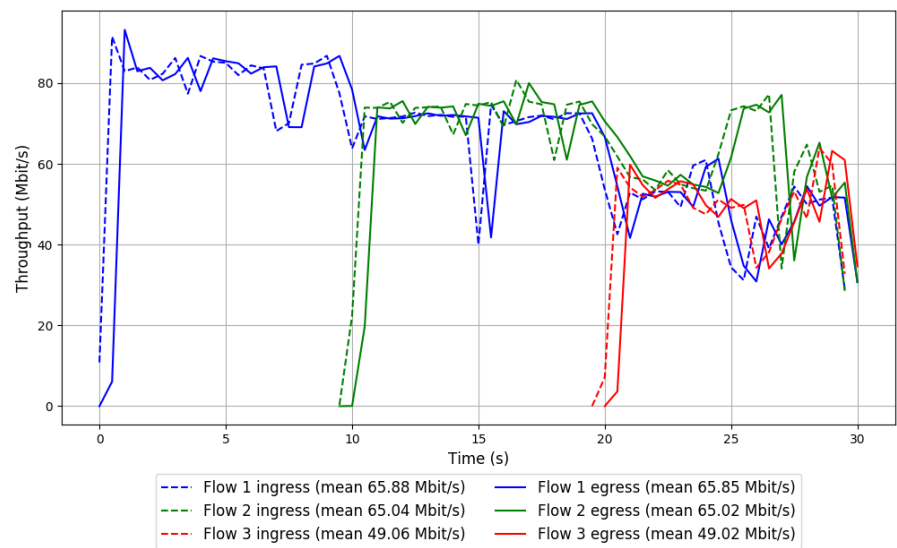
-- Flow 3:

Average throughput: 49.02 Mbit/s

95th percentile per-packet one-way delay: 23.034 ms

Loss rate: 0.07%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-07-17 21:02:59

End at: 2018-07-17 21:03:29

Local clock offset: -0.313 ms

Remote clock offset: 1.317 ms

Below is generated by plot.py at 2018-07-17 23:07:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 121.49 Mbit/s

95th percentile per-packet one-way delay: 21.447 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 63.36 Mbit/s

95th percentile per-packet one-way delay: 18.933 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 63.06 Mbit/s

95th percentile per-packet one-way delay: 22.426 ms

Loss rate: 0.01%

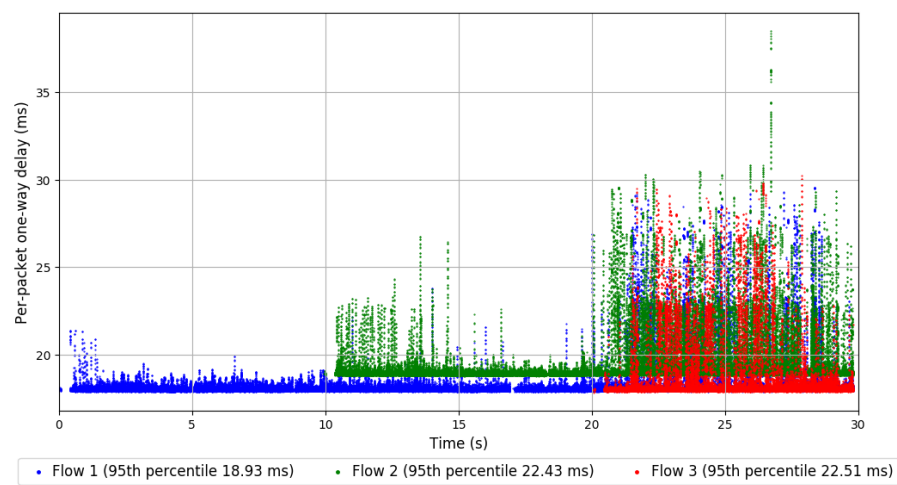
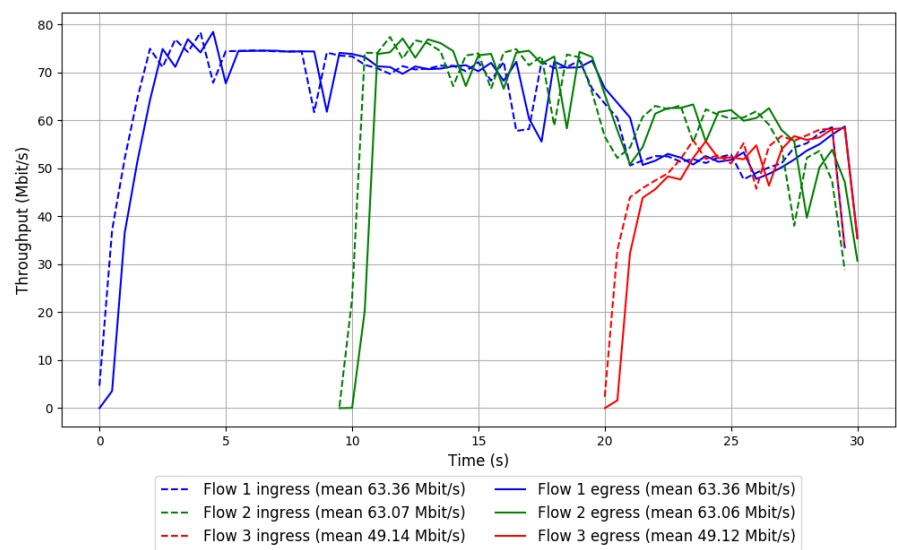
-- Flow 3:

Average throughput: 49.12 Mbit/s

95th percentile per-packet one-way delay: 22.506 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

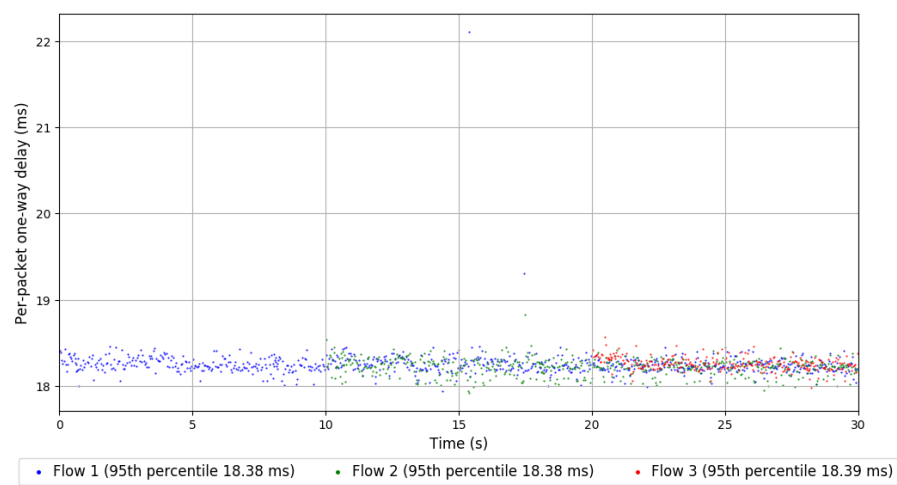
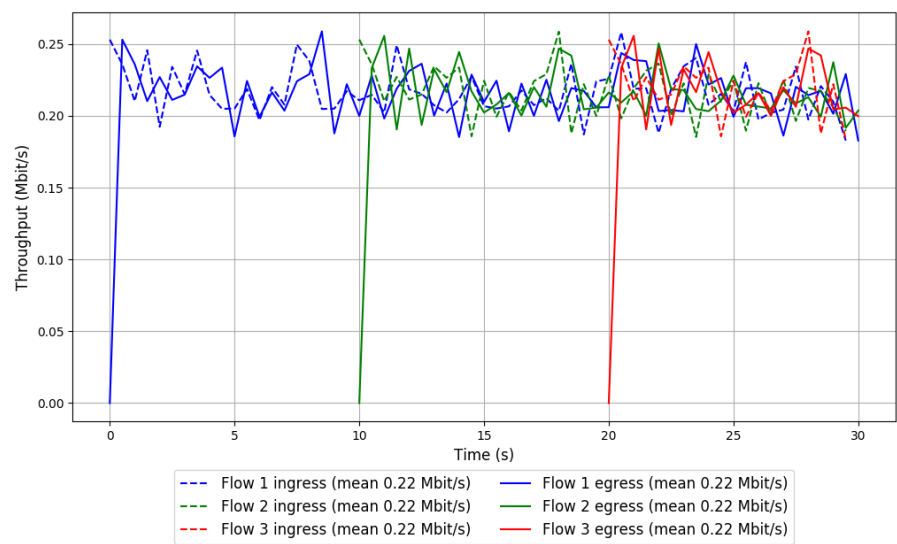


```
Run 1: Statistics of SReAM

Start at: 2018-07-17 16:56:46
End at: 2018-07-17 16:57:16
Local clock offset: -3.794 ms
Remote clock offset: 0.912 ms

# Below is generated by plot.py at 2018-07-17 23:07:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 18.383 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 18.382 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 18.377 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 18.385 ms
Loss rate: 0.00%
```


Run 1: Report of SReAM — Data Link



Run 2: Statistics of SReAM

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

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

Local clock offset: -0.094 ms

Remote clock offset: 1.6 ms

Below is generated by plot.py at 2018-07-17 23:07:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 19.573 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 17.967 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.640 ms

Loss rate: 0.00%

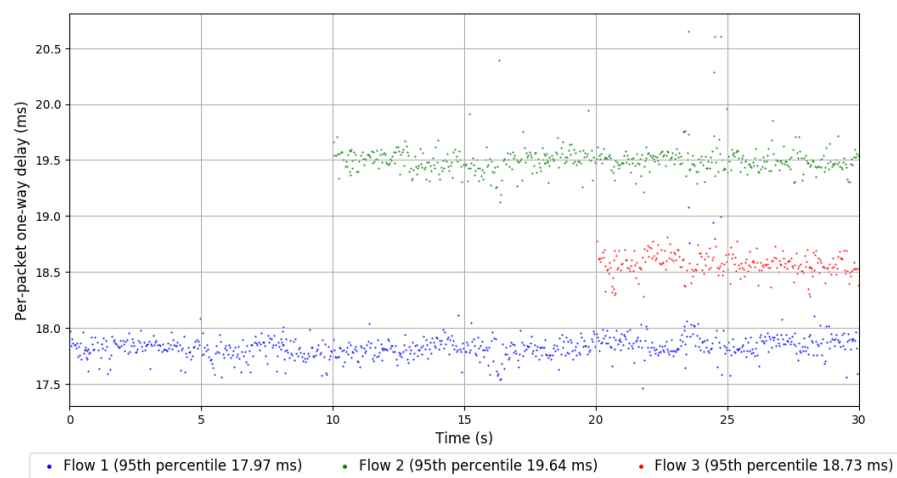
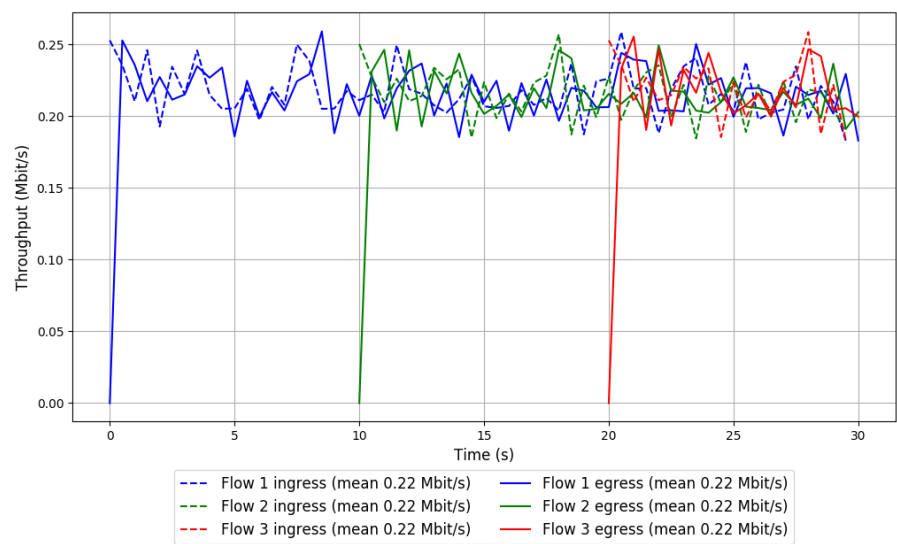
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.727 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-07-17 17:51:31

End at: 2018-07-17 17:52:01

Local clock offset: 0.584 ms

Remote clock offset: 2.315 ms

Below is generated by plot.py at 2018-07-17 23:07:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 19.301 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.261 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 19.320 ms

Loss rate: 0.22%

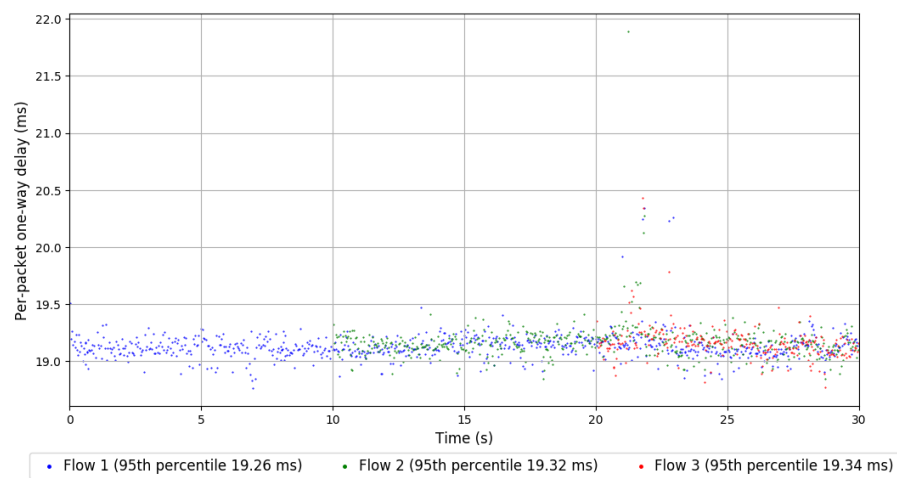
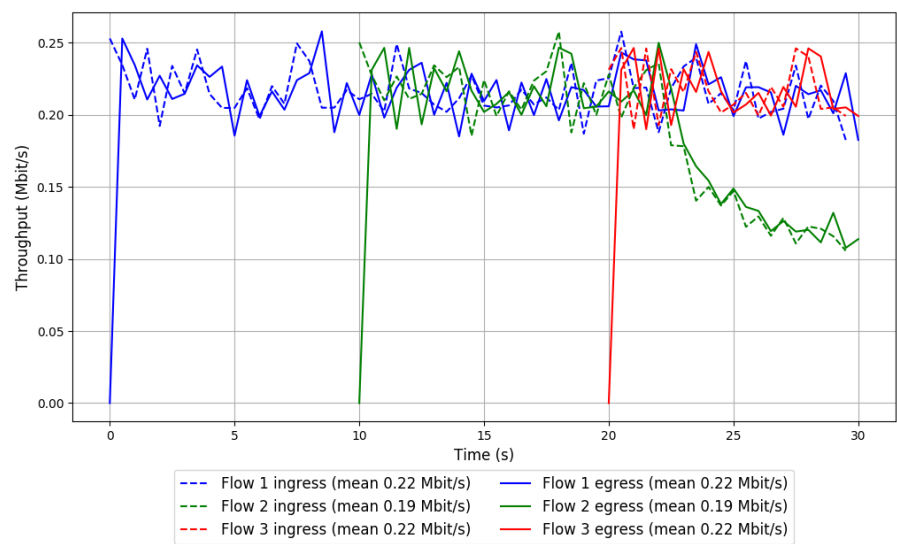
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.340 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-07-17 18:18:38

End at: 2018-07-17 18:19:08

Local clock offset: 8.384 ms

Remote clock offset: 3.026 ms

Below is generated by plot.py at 2018-07-17 23:07:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 19.814 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.804 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.853 ms

Loss rate: 0.00%

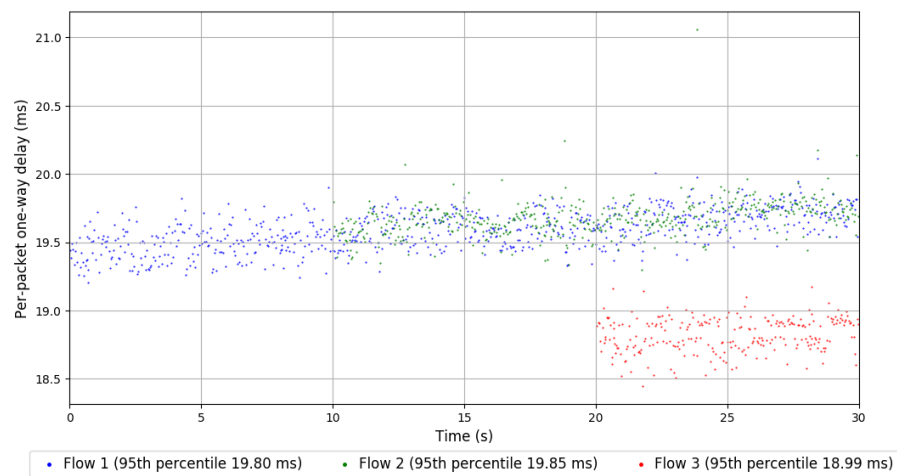
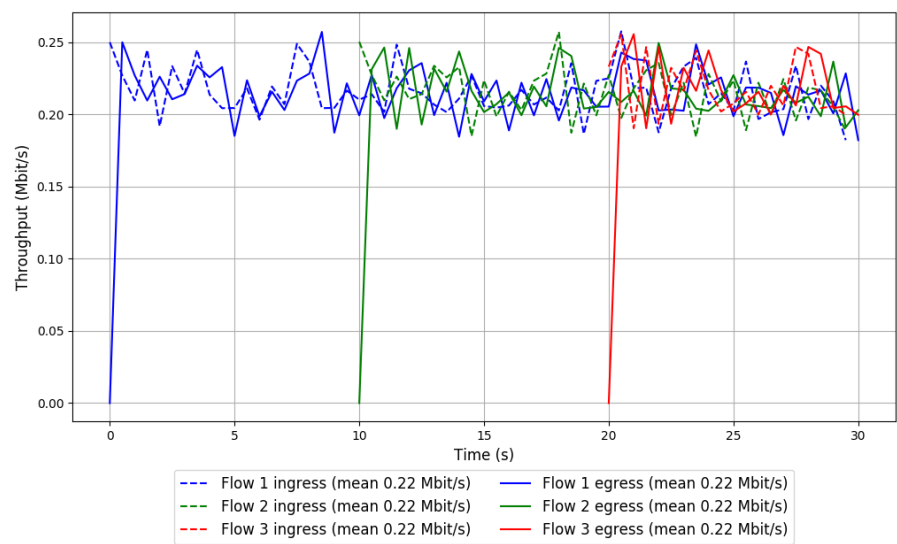
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.988 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-07-17 18:45:56

End at: 2018-07-17 18:46:26

Local clock offset: 15.971 ms

Remote clock offset: 3.446 ms

Below is generated by plot.py at 2018-07-17 23:07:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 18.628 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.620 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.637 ms

Loss rate: 0.00%

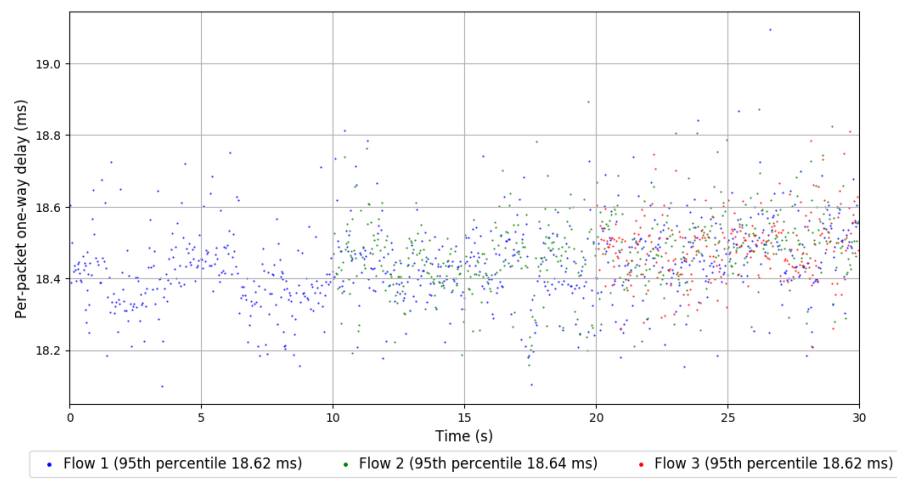
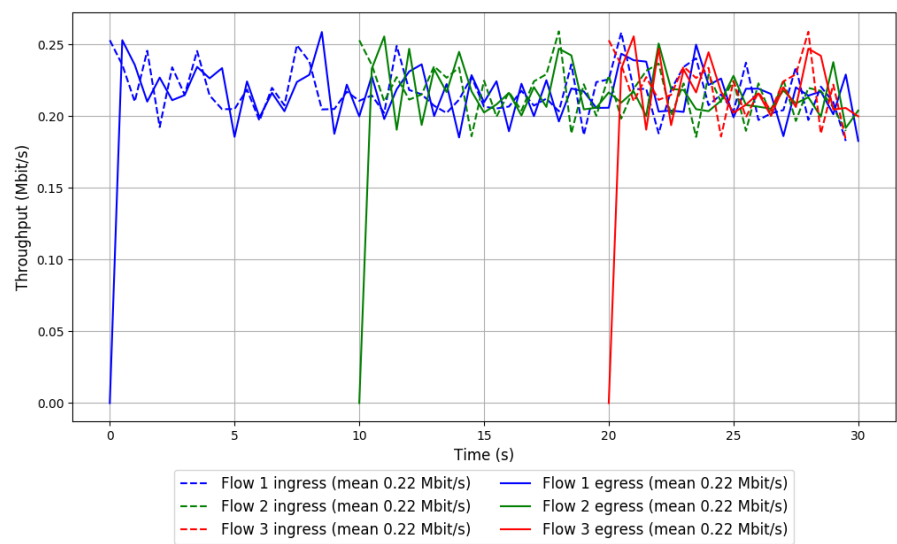
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.619 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-07-17 19:12:58

End at: 2018-07-17 19:13:28

Local clock offset: 11.198 ms

Remote clock offset: 3.28 ms

Below is generated by plot.py at 2018-07-17 23:07:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 18.436 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.509 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.267 ms

Loss rate: 0.00%

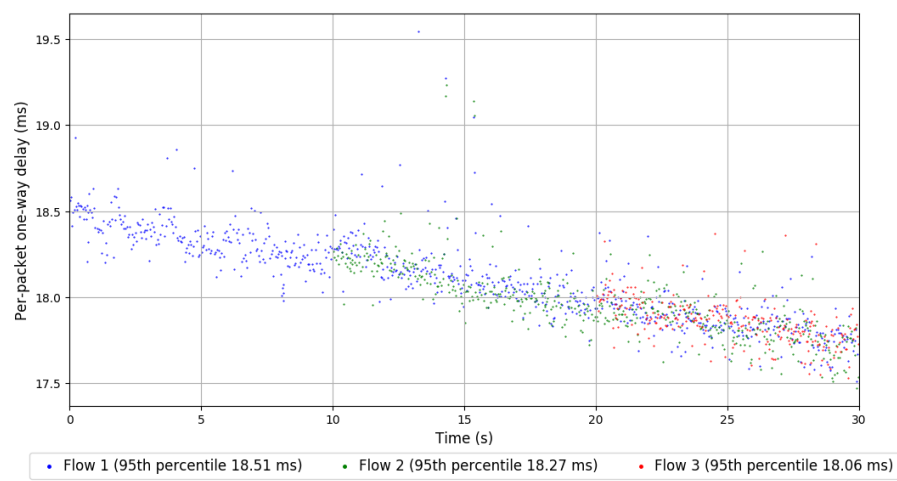
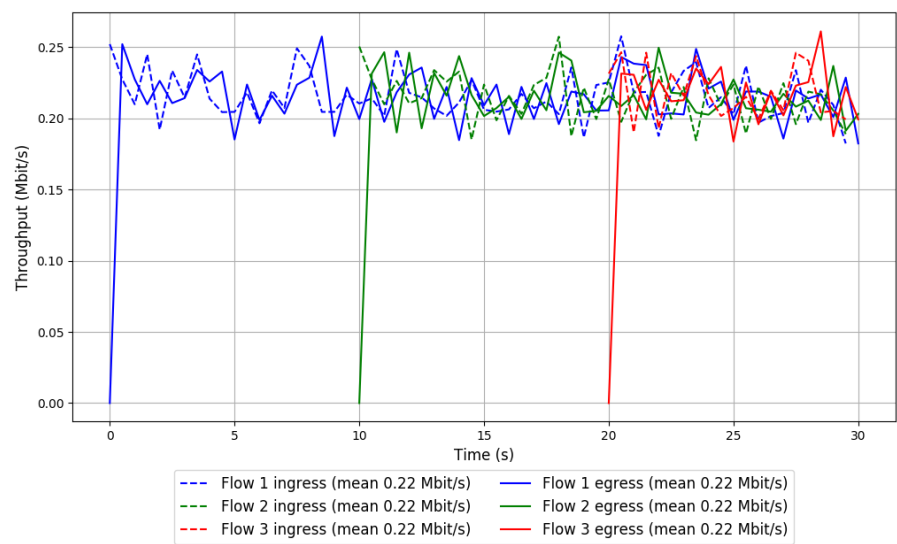
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.060 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

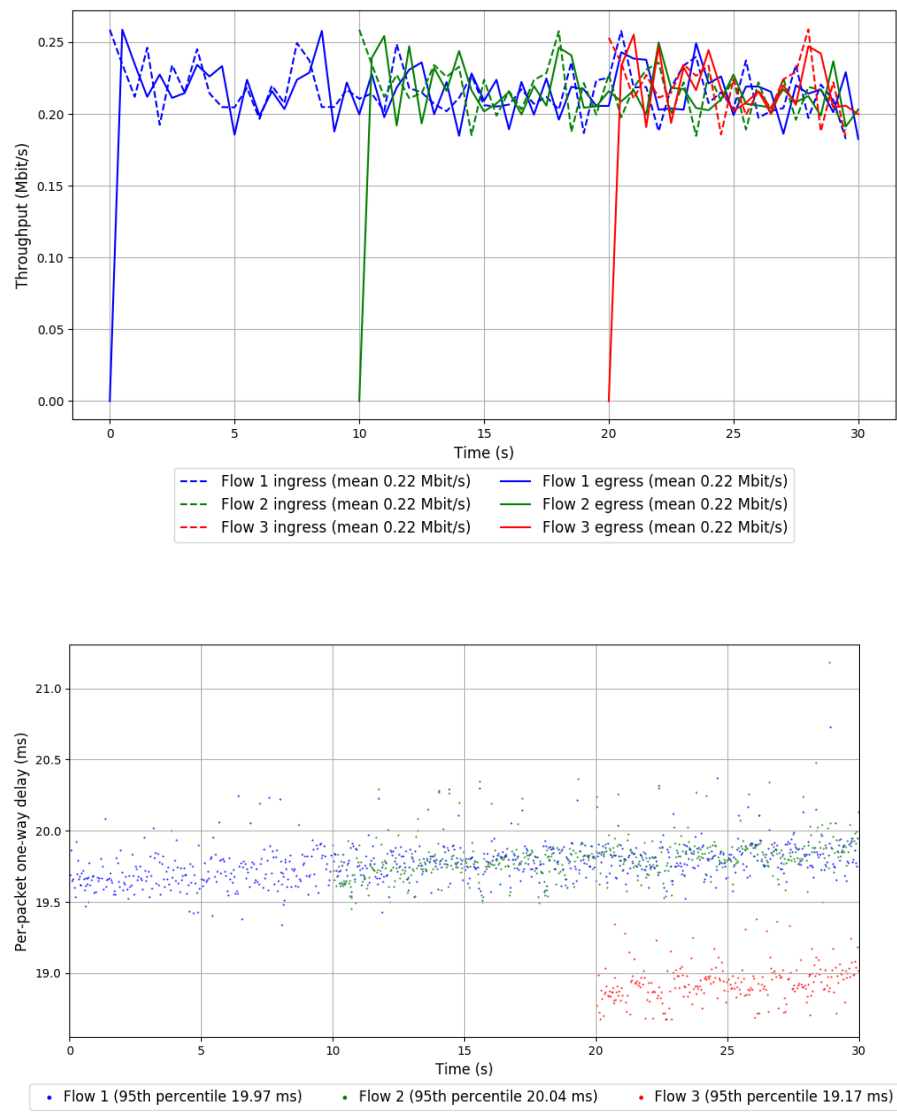


Run 7: Statistics of SReAM

Start at: 2018-07-17 19:39:58
End at: 2018-07-17 19:40:28
Local clock offset: -5.77 ms
Remote clock offset: 2.888 ms

Below is generated by plot.py at 2018-07-17 23:07:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 19.969 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.967 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 20.040 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.172 ms
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-07-17 20:07:16

End at: 2018-07-17 20:07:46

Local clock offset: -3.626 ms

Remote clock offset: 2.528 ms

Below is generated by plot.py at 2018-07-17 23:07:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 19.343 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.597 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.361 ms

Loss rate: 0.00%

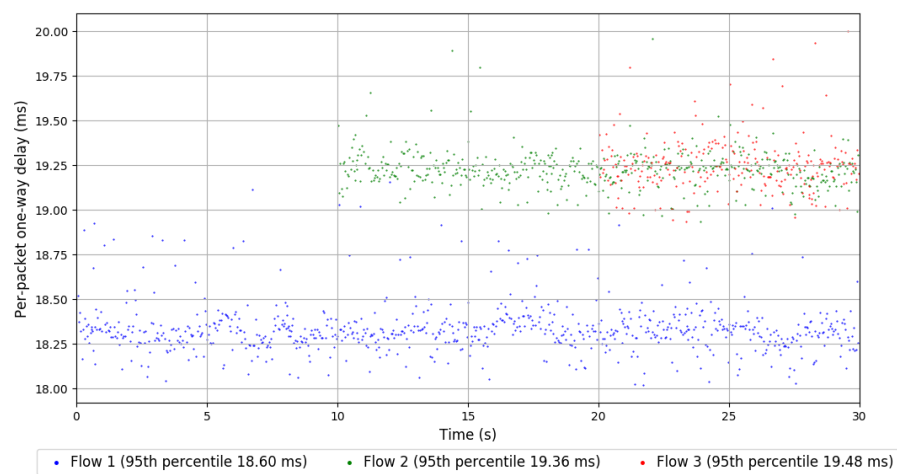
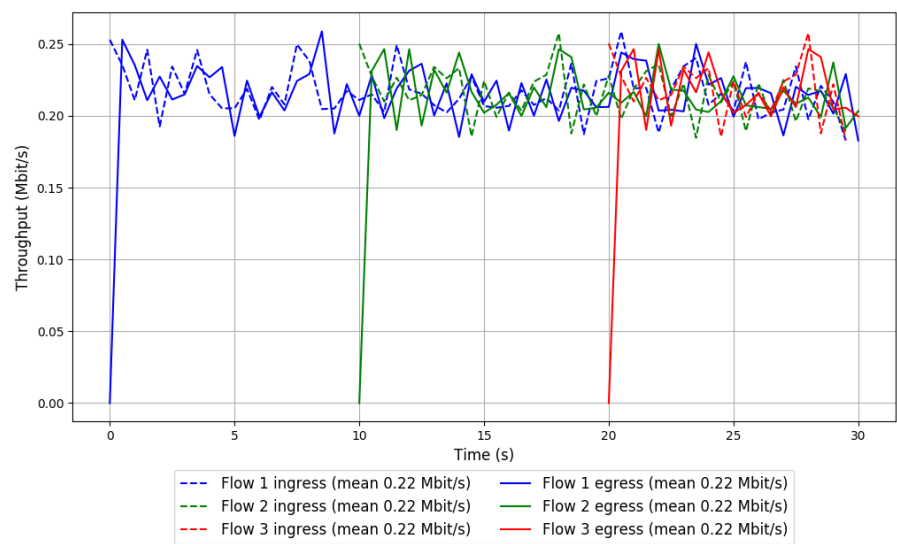
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.482 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-07-17 20:34:39

End at: 2018-07-17 20:35:09

Local clock offset: -2.288 ms

Remote clock offset: 2.04 ms

Below is generated by plot.py at 2018-07-17 23:07:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 18.646 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.629 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.645 ms

Loss rate: 0.00%

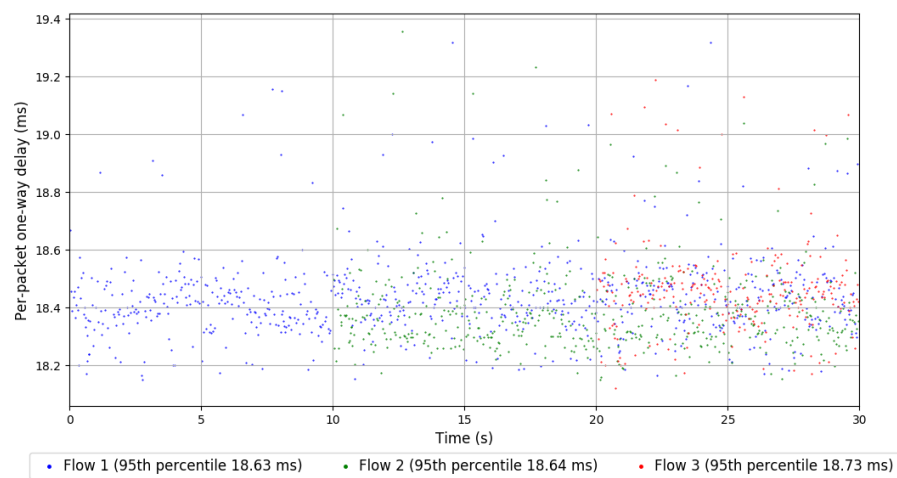
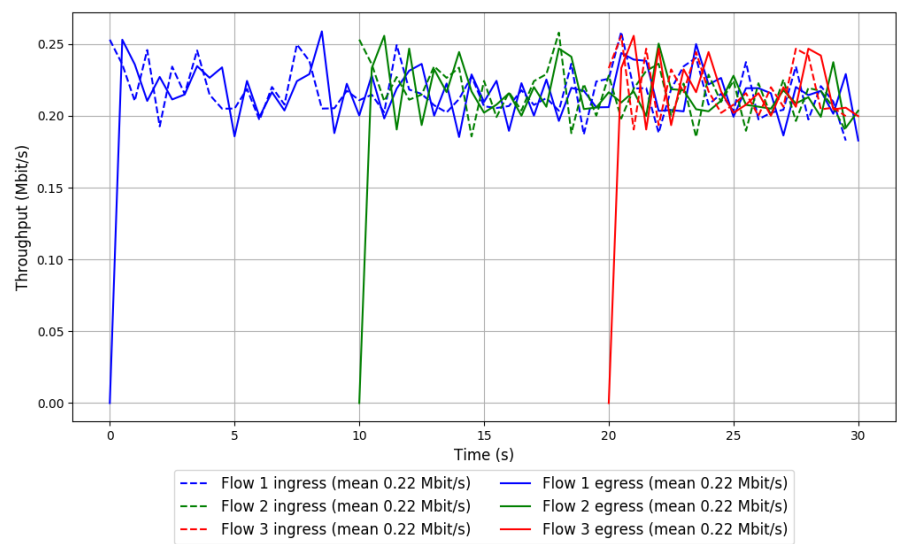
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.727 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-07-17 21:01:41

End at: 2018-07-17 21:02:11

Local clock offset: -0.321 ms

Remote clock offset: 1.416 ms

Below is generated by plot.py at 2018-07-17 23:07:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 19.671 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.620 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.679 ms

Loss rate: 0.00%

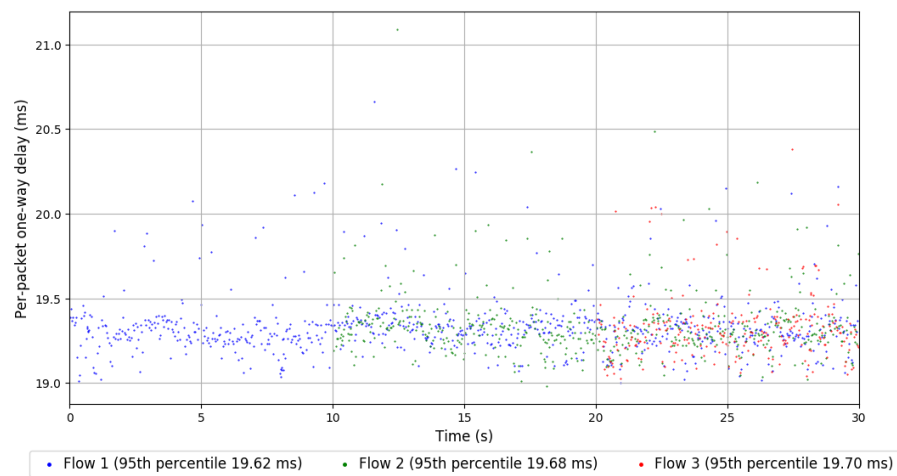
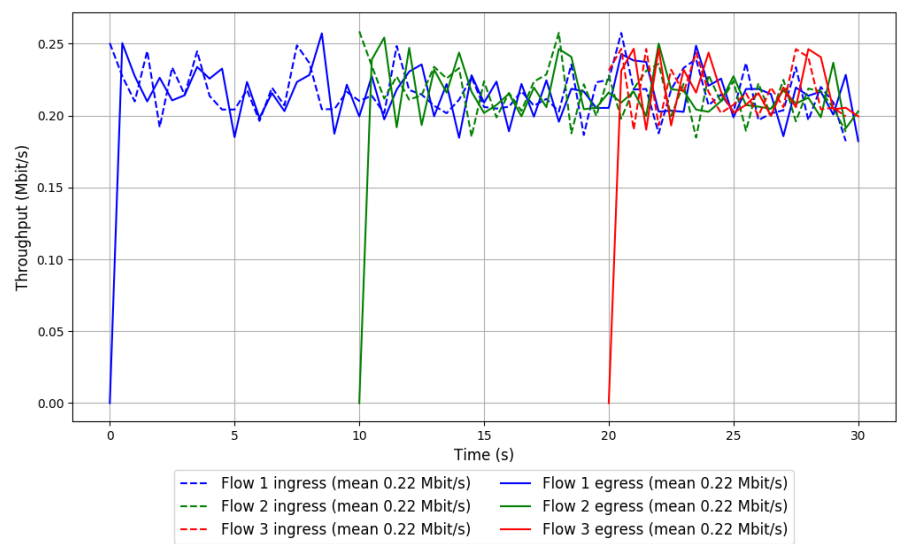
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.695 ms

Loss rate: 0.00%

Run 10: Report of SCReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-07-17 16:53:39

End at: 2018-07-17 16:54:09

Local clock offset: -3.527 ms

Remote clock offset: 0.8 ms

Below is generated by plot.py at 2018-07-17 23:07:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 40.61 Mbit/s

95th percentile per-packet one-way delay: 21.551 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 20.27 Mbit/s

95th percentile per-packet one-way delay: 21.516 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 20.37 Mbit/s

95th percentile per-packet one-way delay: 21.753 ms

Loss rate: 0.00%

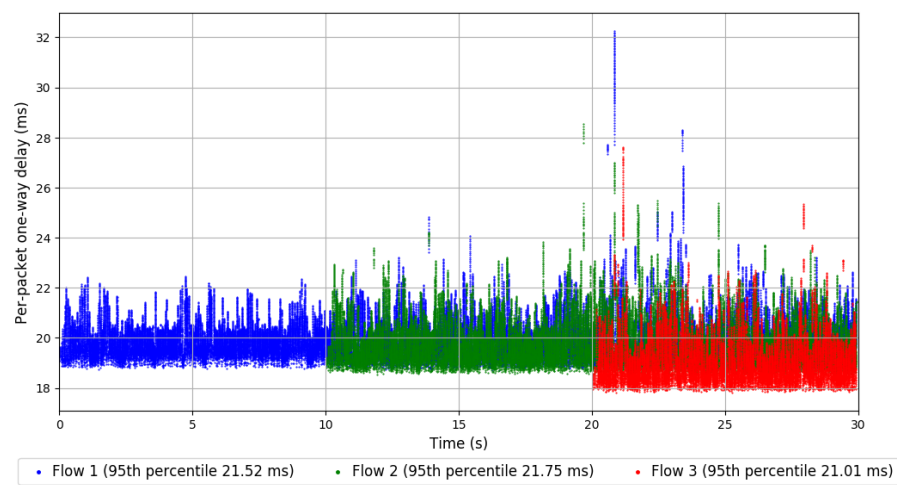
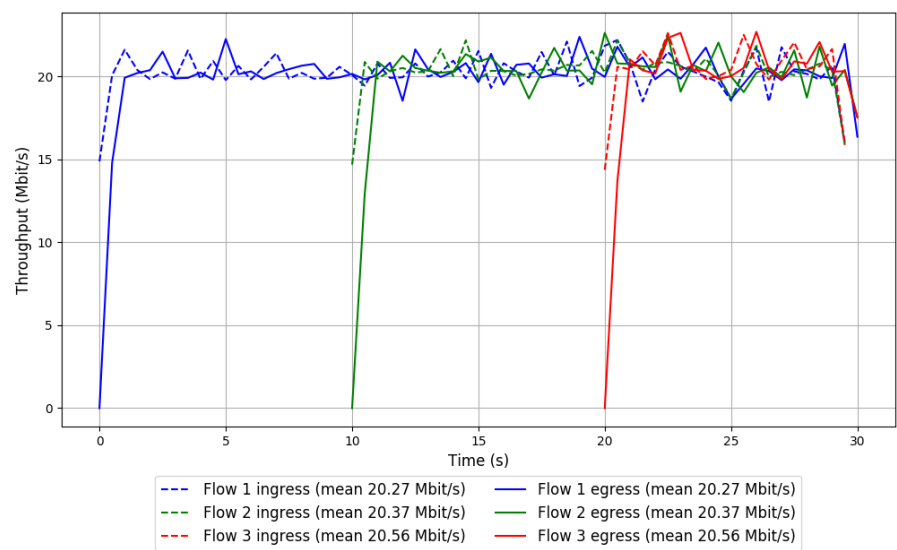
-- Flow 3:

Average throughput: 20.56 Mbit/s

95th percentile per-packet one-way delay: 21.007 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

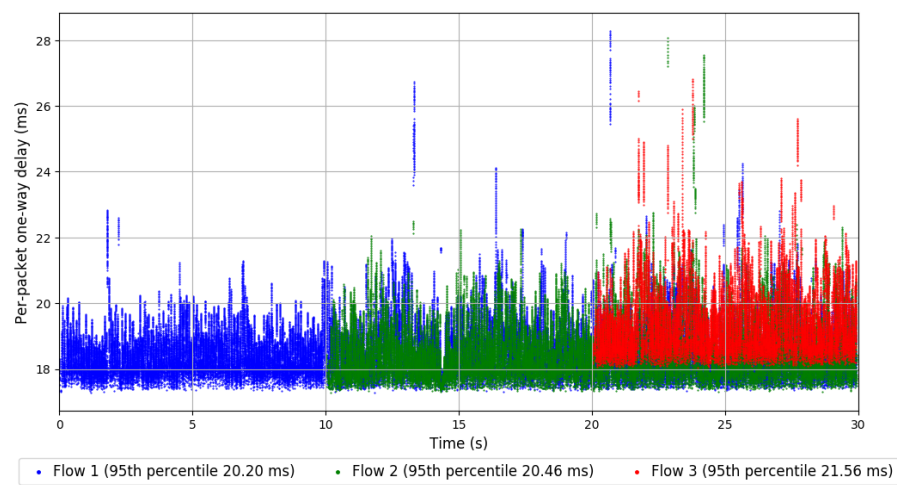
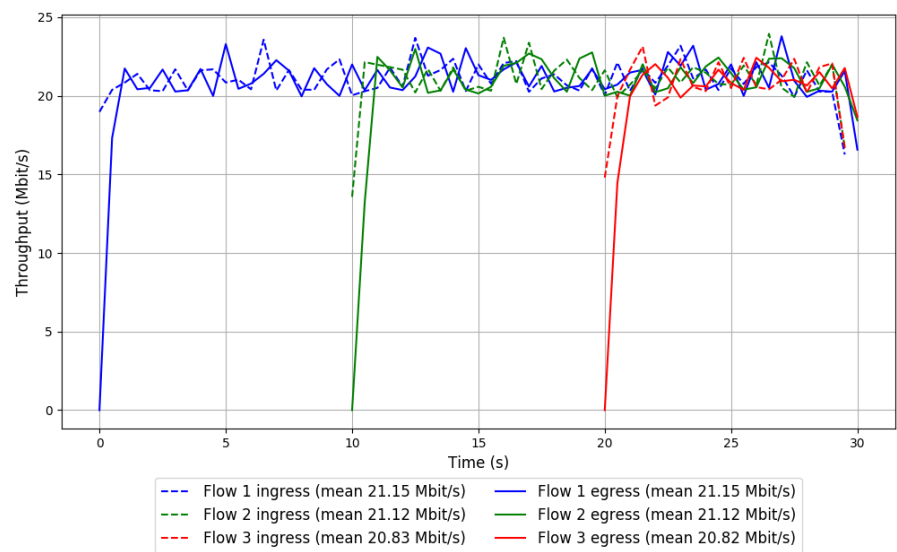


Run 2: Statistics of Sprout

Start at: 2018-07-17 17:20:57
End at: 2018-07-17 17:21:27
Local clock offset: -0.487 ms
Remote clock offset: 1.427 ms

Below is generated by plot.py at 2018-07-17 23:07:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 42.08 Mbit/s
95th percentile per-packet one-way delay: 20.630 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 21.15 Mbit/s
95th percentile per-packet one-way delay: 20.205 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 21.12 Mbit/s
95th percentile per-packet one-way delay: 20.457 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 20.82 Mbit/s
95th percentile per-packet one-way delay: 21.561 ms
Loss rate: 0.01%

Run 2: Report of Sprout — Data Link

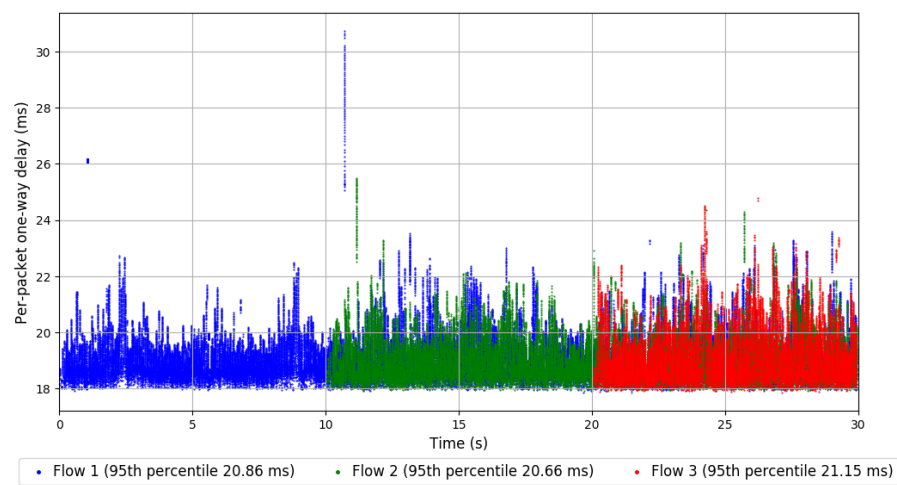
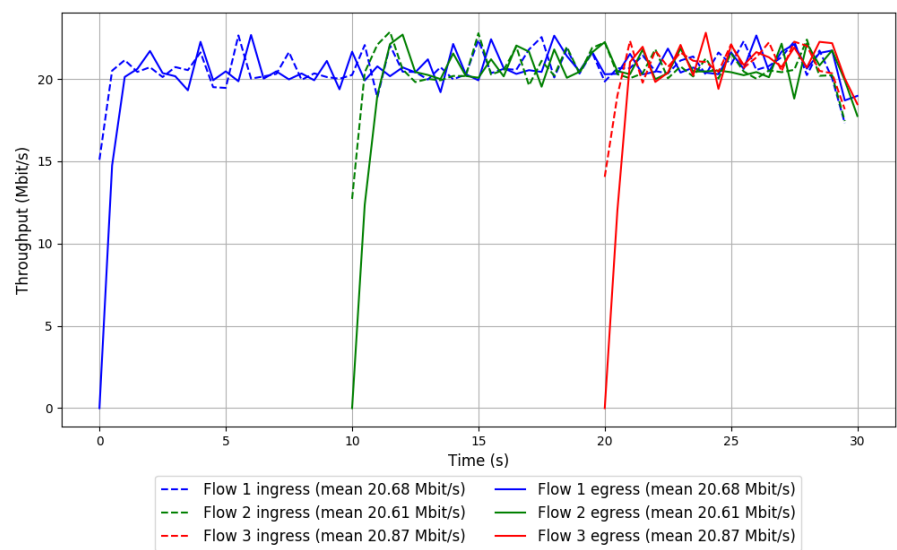


Run 3: Statistics of Sprout

Start at: 2018-07-17 17:48:23
End at: 2018-07-17 17:48:53
Local clock offset: 0.664 ms
Remote clock offset: 2.258 ms

```
# Below is generated by plot.py at 2018-07-17 23:07:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 41.27 Mbit/s
95th percentile per-packet one-way delay: 20.857 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 20.68 Mbit/s
95th percentile per-packet one-way delay: 20.857 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 20.61 Mbit/s
95th percentile per-packet one-way delay: 20.658 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 20.87 Mbit/s
95th percentile per-packet one-way delay: 21.154 ms
Loss rate: 0.00%
```


Run 3: Report of Sprout — Data Link

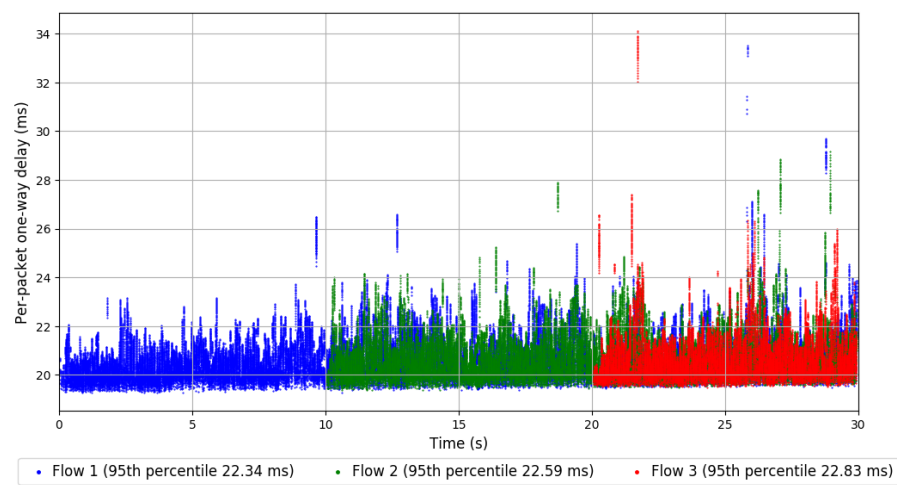
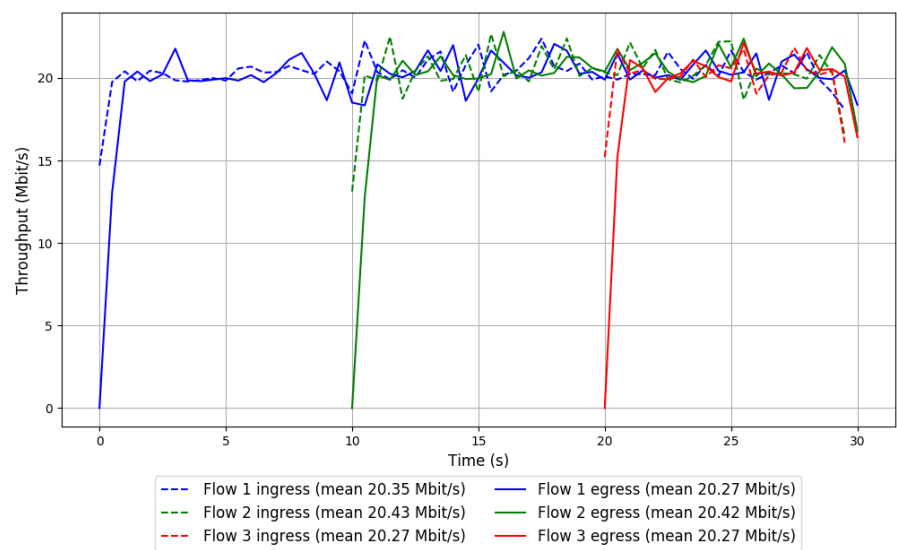


Run 4: Statistics of Sprout

Start at: 2018-07-17 18:15:31
End at: 2018-07-17 18:16:01
Local clock offset: 6.455 ms
Remote clock offset: 2.914 ms

```
# Below is generated by plot.py at 2018-07-17 23:07:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 40.55 Mbit/s
95th percentile per-packet one-way delay: 22.490 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 20.27 Mbit/s
95th percentile per-packet one-way delay: 22.345 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 20.42 Mbit/s
95th percentile per-packet one-way delay: 22.594 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 20.27 Mbit/s
95th percentile per-packet one-way delay: 22.833 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

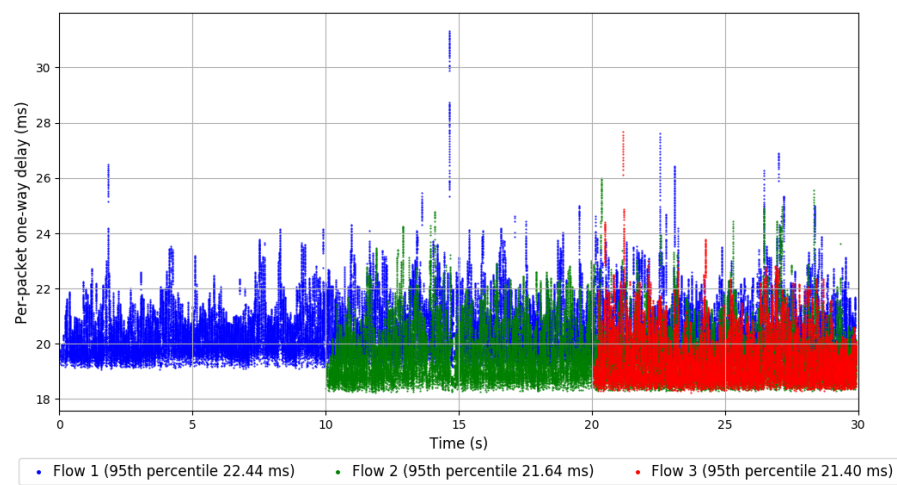
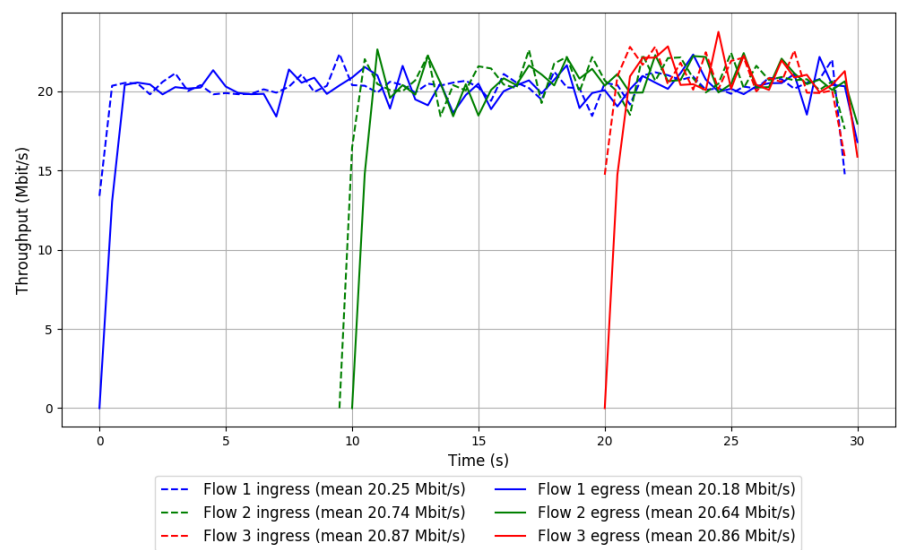


Run 5: Statistics of Sprout

Start at: 2018-07-17 18:42:50
End at: 2018-07-17 18:43:20
Local clock offset: 15.253 ms
Remote clock offset: 3.478 ms

```
# Below is generated by plot.py at 2018-07-17 23:07:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 40.80 Mbit/s
95th percentile per-packet one-way delay: 22.092 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 20.18 Mbit/s
95th percentile per-packet one-way delay: 22.439 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 20.64 Mbit/s
95th percentile per-packet one-way delay: 21.638 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 20.86 Mbit/s
95th percentile per-packet one-way delay: 21.403 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

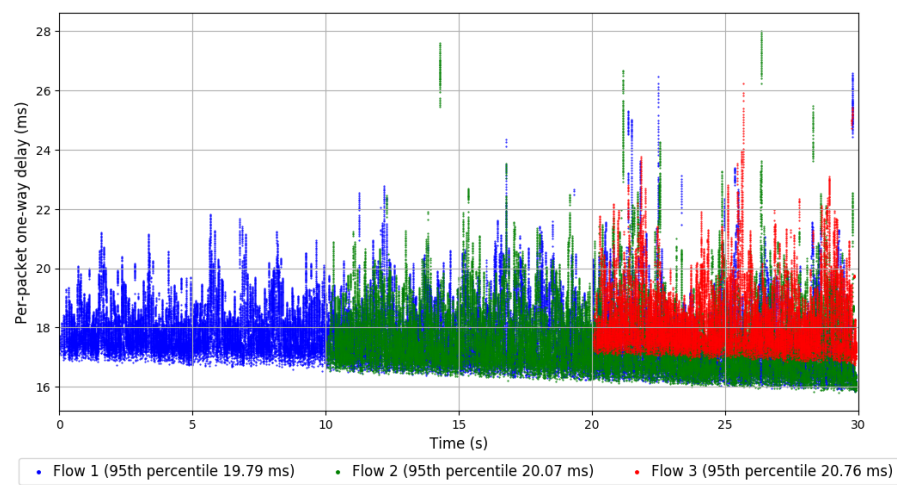
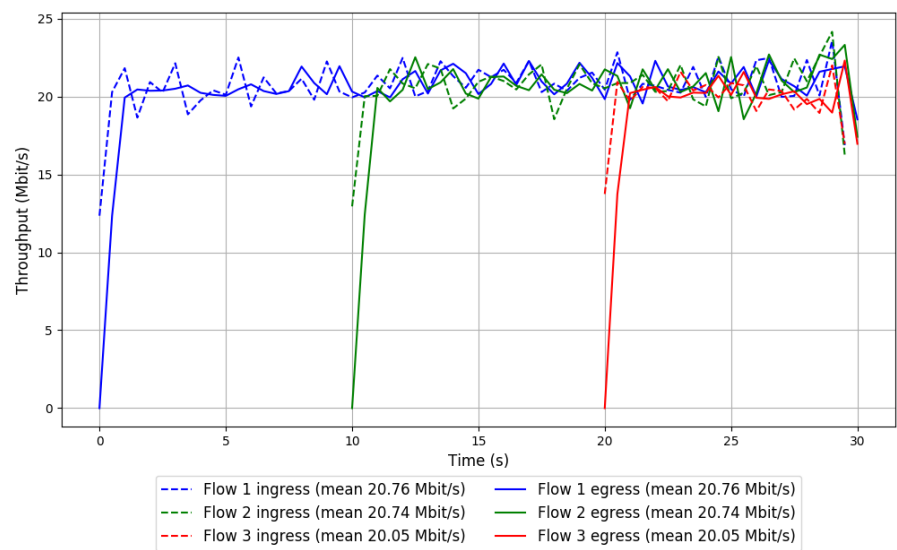


Run 6: Statistics of Sprout

Start at: 2018-07-17 19:09:53
End at: 2018-07-17 19:10:23
Local clock offset: 17.038 ms
Remote clock offset: 3.27 ms

```
# Below is generated by plot.py at 2018-07-17 23:07:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 41.18 Mbit/s
95th percentile per-packet one-way delay: 20.053 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 20.76 Mbit/s
95th percentile per-packet one-way delay: 19.794 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 20.74 Mbit/s
95th percentile per-packet one-way delay: 20.071 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 20.05 Mbit/s
95th percentile per-packet one-way delay: 20.759 ms
Loss rate: 0.00%
```

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-07-17 19:36:51

End at: 2018-07-17 19:37:21

Local clock offset: -5.47 ms

Remote clock offset: 2.987 ms

Below is generated by plot.py at 2018-07-17 23:07:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.14 Mbit/s

95th percentile per-packet one-way delay: 21.745 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 20.78 Mbit/s

95th percentile per-packet one-way delay: 21.301 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 20.62 Mbit/s

95th percentile per-packet one-way delay: 21.541 ms

Loss rate: 0.04%

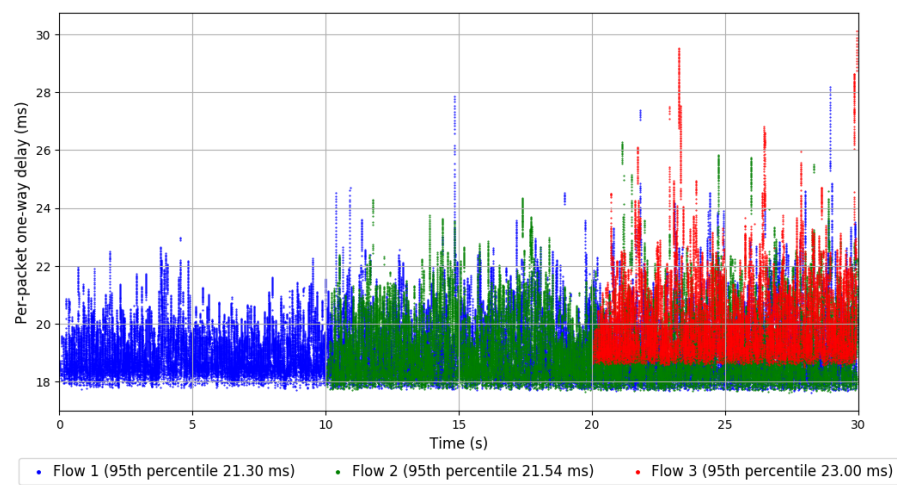
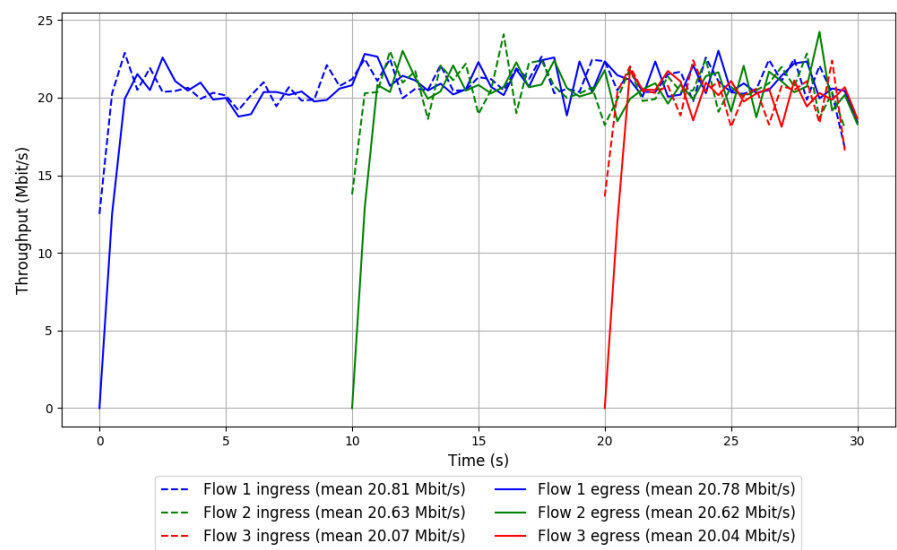
-- Flow 3:

Average throughput: 20.04 Mbit/s

95th percentile per-packet one-way delay: 23.003 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link

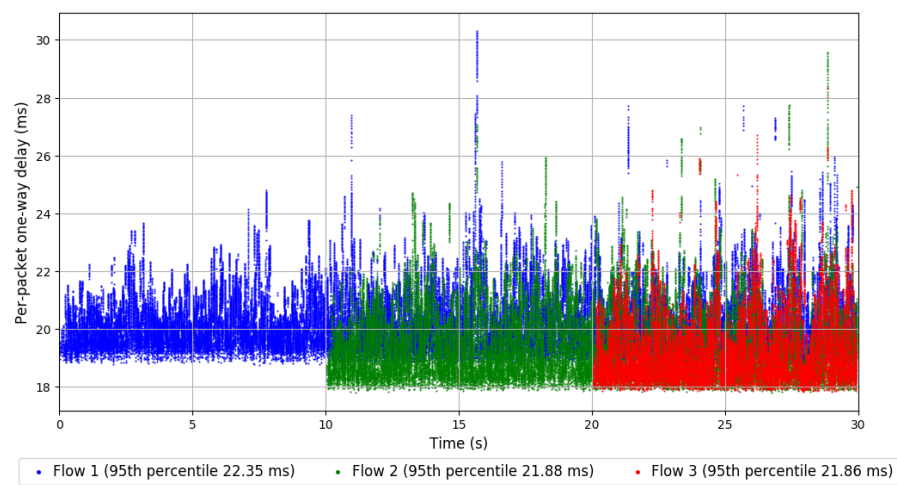
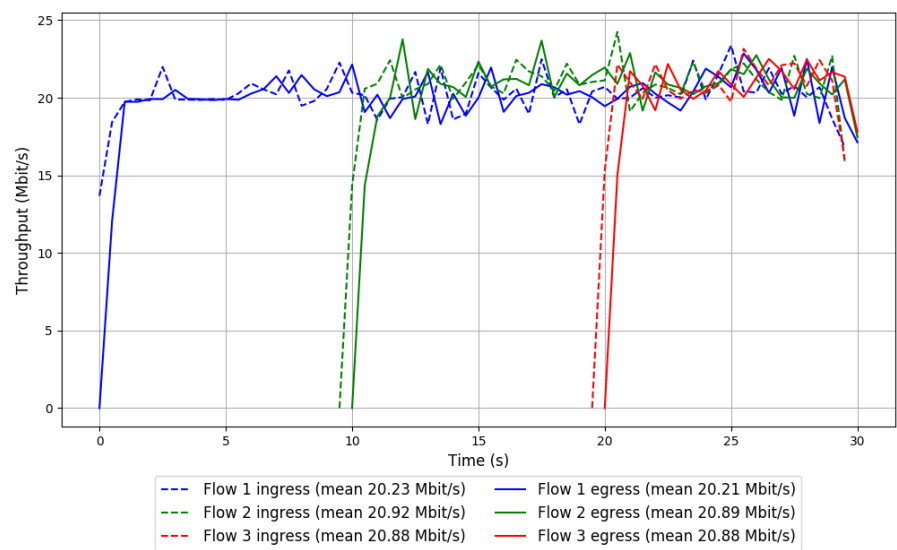


Run 8: Statistics of Sprout

Start at: 2018-07-17 20:04:10
End at: 2018-07-17 20:04:40
Local clock offset: -3.153 ms
Remote clock offset: 2.549 ms

```
# Below is generated by plot.py at 2018-07-17 23:07:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 41.01 Mbit/s
95th percentile per-packet one-way delay: 22.143 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 20.21 Mbit/s
95th percentile per-packet one-way delay: 22.349 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 20.89 Mbit/s
95th percentile per-packet one-way delay: 21.883 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 20.88 Mbit/s
95th percentile per-packet one-way delay: 21.859 ms
Loss rate: 0.00%
```

Run 8: Report of Sprout — Data Link

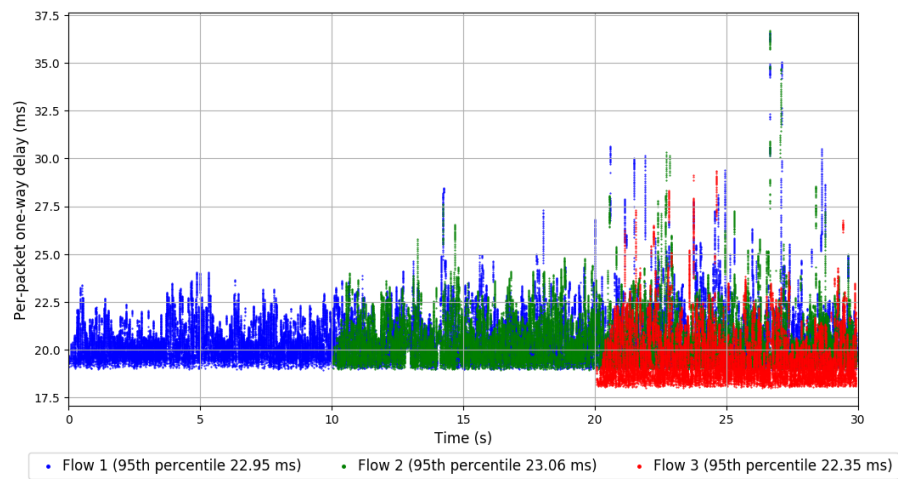
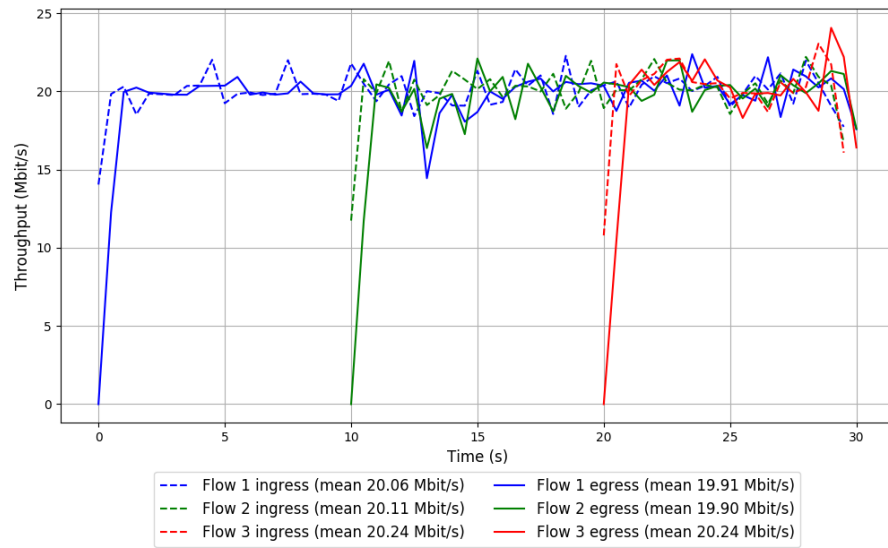


Run 9: Statistics of Sprout

Start at: 2018-07-17 20:31:33
End at: 2018-07-17 20:32:03
Local clock offset: -2.063 ms
Remote clock offset: 2.062 ms

Below is generated by plot.py at 2018-07-17 23:07:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 39.82 Mbit/s
95th percentile per-packet one-way delay: 22.916 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 19.91 Mbit/s
95th percentile per-packet one-way delay: 22.950 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 19.90 Mbit/s
95th percentile per-packet one-way delay: 23.061 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 20.24 Mbit/s
95th percentile per-packet one-way delay: 22.351 ms
Loss rate: 0.00%

Run 9: Report of Sprout — Data Link

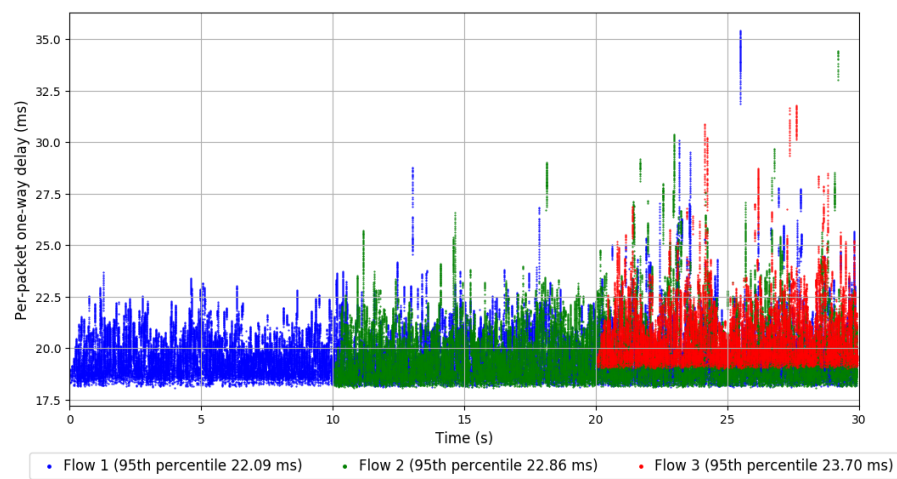
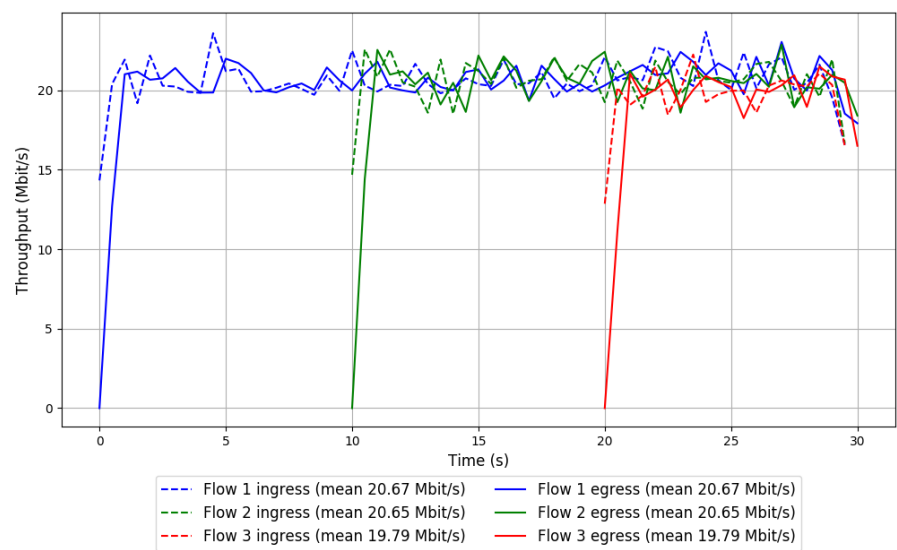


Run 10: Statistics of Sprout

Start at: 2018-07-17 20:58:34
End at: 2018-07-17 20:59:04
Local clock offset: -0.412 ms
Remote clock offset: 1.441 ms

Below is generated by plot.py at 2018-07-17 23:07:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 40.93 Mbit/s
95th percentile per-packet one-way delay: 22.702 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 20.67 Mbit/s
95th percentile per-packet one-way delay: 22.094 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 20.65 Mbit/s
95th percentile per-packet one-way delay: 22.858 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 19.79 Mbit/s
95th percentile per-packet one-way delay: 23.699 ms
Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

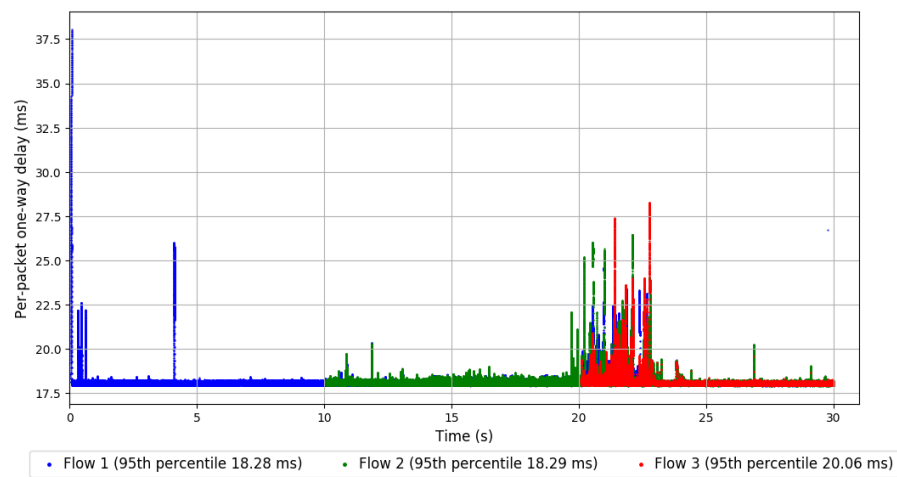
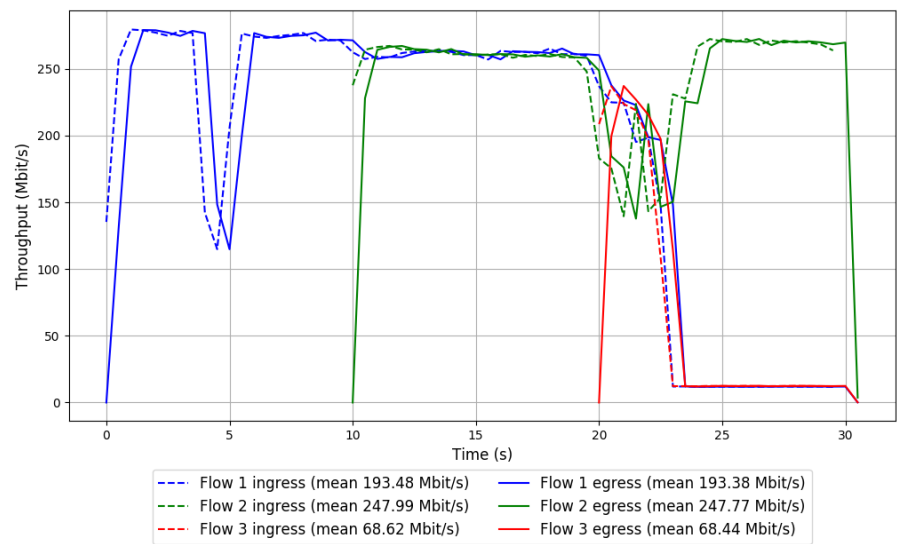


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-07-17 16:59:25
End at: 2018-07-17 16:59:55
Local clock offset: -4.082 ms
Remote clock offset: 0.927 ms

# Below is generated by plot.py at 2018-07-17 23:11:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 381.17 Mbit/s
95th percentile per-packet one-way delay: 18.354 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 193.38 Mbit/s
95th percentile per-packet one-way delay: 18.277 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 247.77 Mbit/s
95th percentile per-packet one-way delay: 18.291 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 68.44 Mbit/s
95th percentile per-packet one-way delay: 20.059 ms
Loss rate: 0.26%
```


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



Run 2: Statistics of TaoVA-100x

Start at: 2018-07-17 17:26:43

End at: 2018-07-17 17:27:13

Local clock offset: 0.346 ms

Remote clock offset: 1.619 ms

Below is generated by plot.py at 2018-07-17 23:13:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 454.41 Mbit/s

95th percentile per-packet one-way delay: 19.588 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 236.03 Mbit/s

95th percentile per-packet one-way delay: 18.714 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 232.47 Mbit/s

95th percentile per-packet one-way delay: 19.156 ms

Loss rate: 0.01%

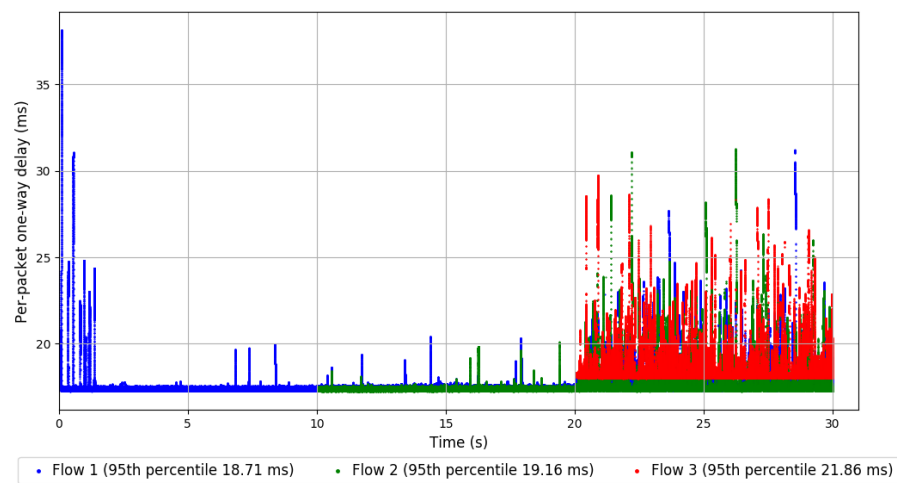
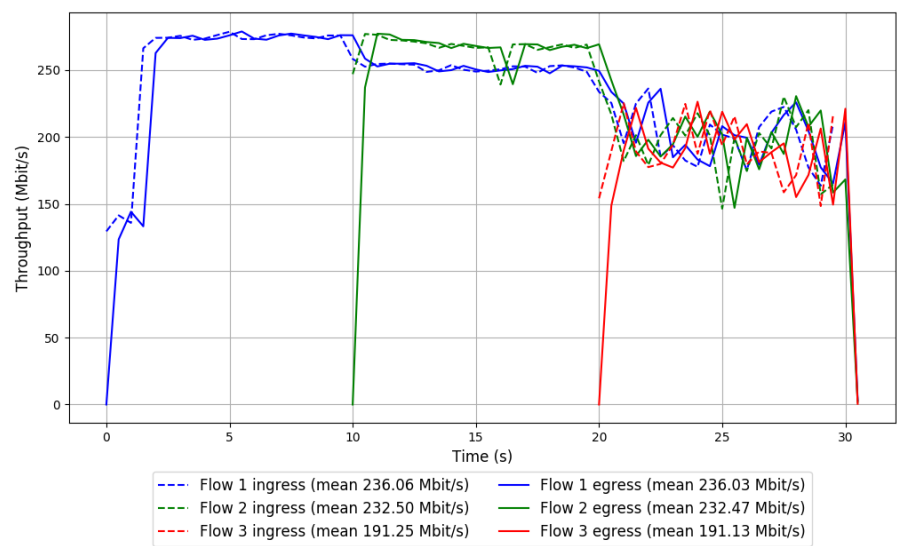
-- Flow 3:

Average throughput: 191.13 Mbit/s

95th percentile per-packet one-way delay: 21.859 ms

Loss rate: 0.06%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-07-17 17:54:12

End at: 2018-07-17 17:54:42

Local clock offset: 0.516 ms

Remote clock offset: 2.477 ms

Below is generated by plot.py at 2018-07-17 23:13:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 430.10 Mbit/s

95th percentile per-packet one-way delay: 19.578 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 219.00 Mbit/s

95th percentile per-packet one-way delay: 18.990 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 223.64 Mbit/s

95th percentile per-packet one-way delay: 19.517 ms

Loss rate: 0.10%

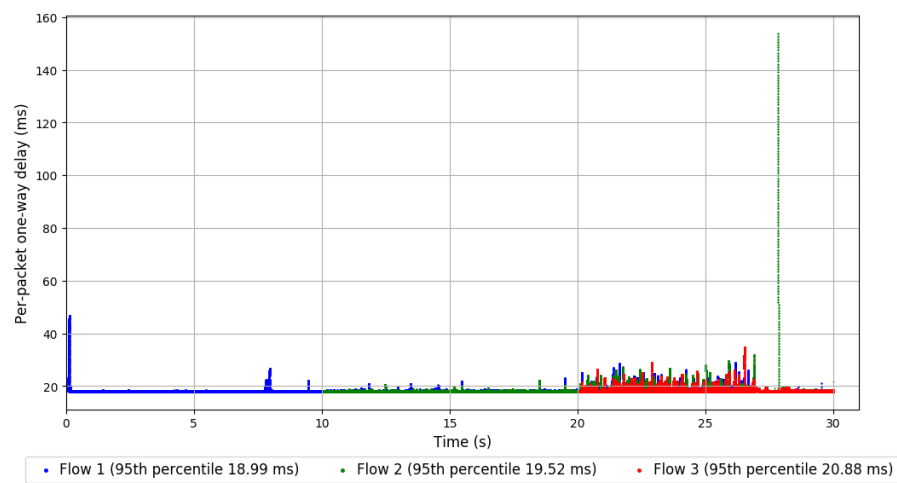
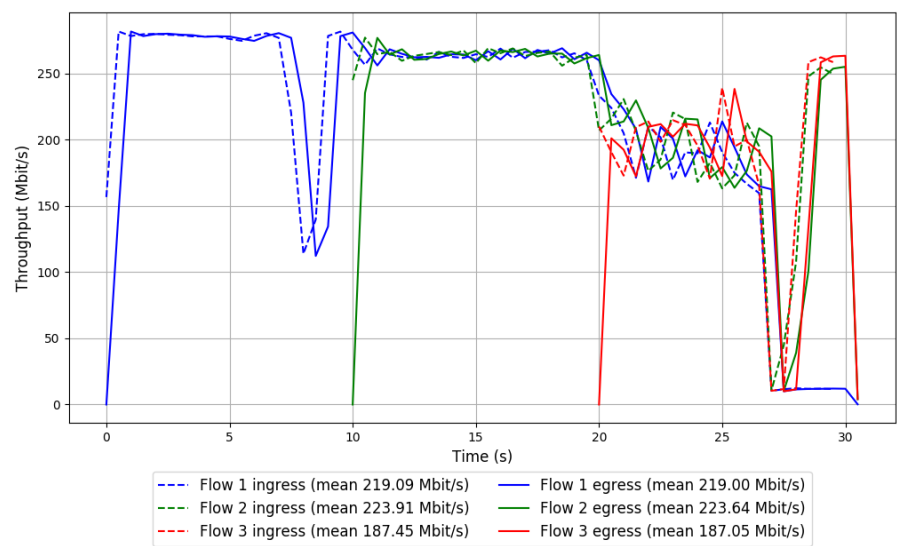
-- Flow 3:

Average throughput: 187.05 Mbit/s

95th percentile per-packet one-way delay: 20.884 ms

Loss rate: 0.21%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-07-17 18:21:18

End at: 2018-07-17 18:21:48

Local clock offset: 9.556 ms

Remote clock offset: 3.068 ms

Below is generated by plot.py at 2018-07-17 23:14:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 460.82 Mbit/s

95th percentile per-packet one-way delay: 20.902 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 238.76 Mbit/s

95th percentile per-packet one-way delay: 19.920 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 235.46 Mbit/s

95th percentile per-packet one-way delay: 21.252 ms

Loss rate: 0.00%

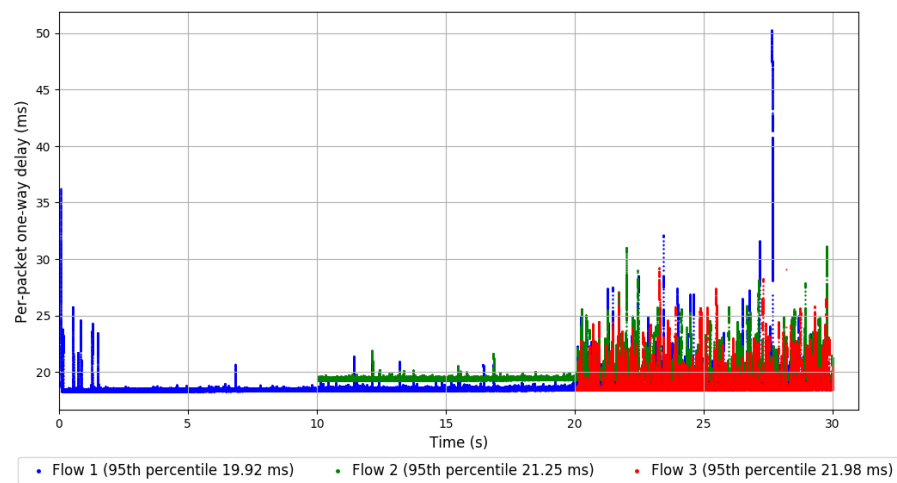
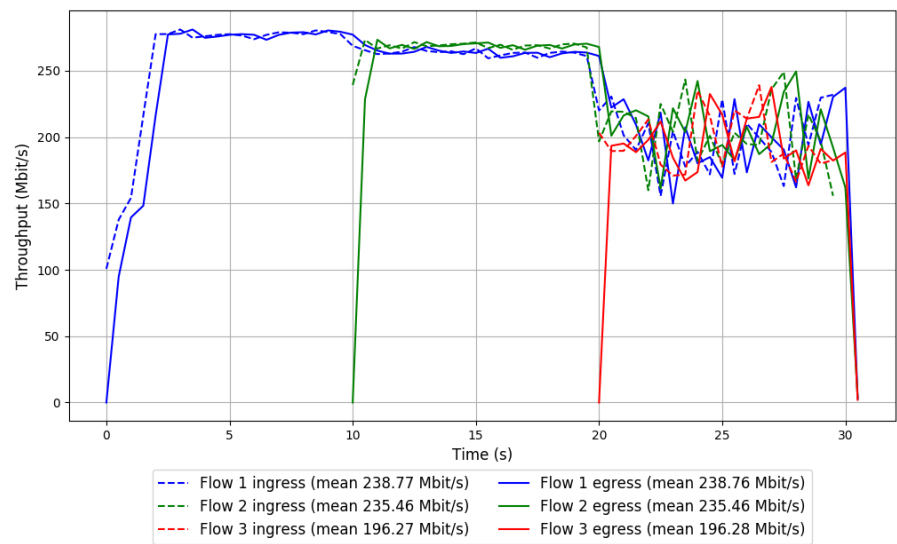
-- Flow 3:

Average throughput: 196.28 Mbit/s

95th percentile per-packet one-way delay: 21.983 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-07-17 18:48:36

End at: 2018-07-17 18:49:06

Local clock offset: 16.456 ms

Remote clock offset: 3.511 ms

Below is generated by plot.py at 2018-07-17 23:16:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 453.41 Mbit/s

95th percentile per-packet one-way delay: 20.668 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 239.51 Mbit/s

95th percentile per-packet one-way delay: 19.605 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 226.72 Mbit/s

95th percentile per-packet one-way delay: 20.402 ms

Loss rate: 0.01%

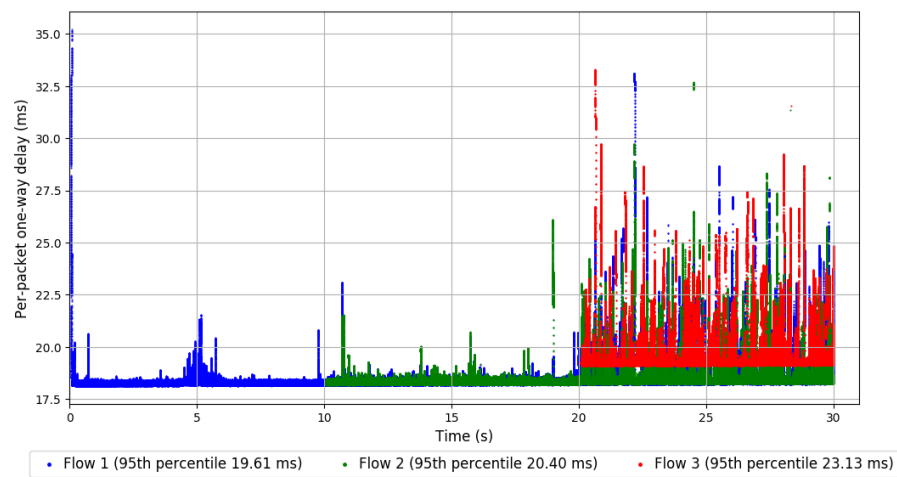
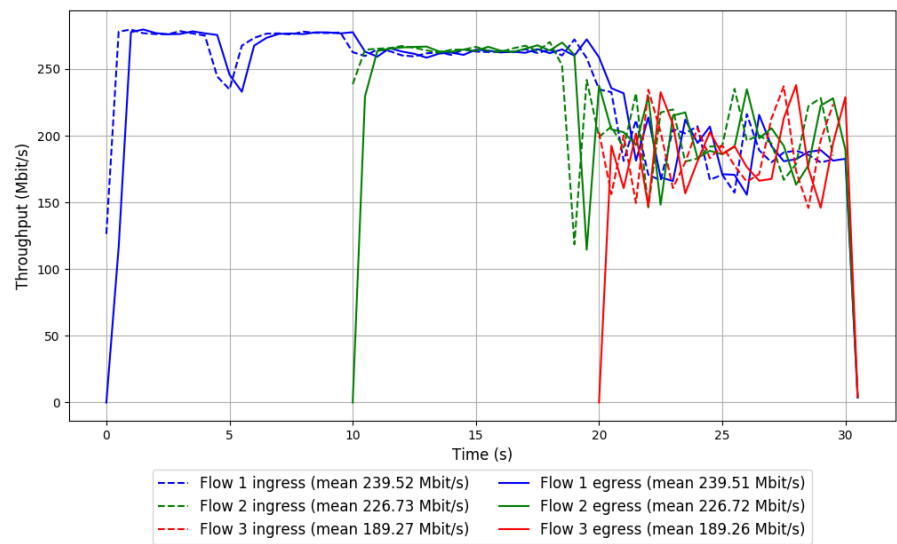
-- Flow 3:

Average throughput: 189.26 Mbit/s

95th percentile per-packet one-way delay: 23.129 ms

Loss rate: 0.01%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-07-17 19:15:39

End at: 2018-07-17 19:16:09

Local clock offset: 7.319 ms

Remote clock offset: 3.264 ms

Below is generated by plot.py at 2018-07-17 23:16:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 445.28 Mbit/s

95th percentile per-packet one-way delay: 19.583 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 230.07 Mbit/s

95th percentile per-packet one-way delay: 18.420 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 227.88 Mbit/s

95th percentile per-packet one-way delay: 19.985 ms

Loss rate: 0.14%

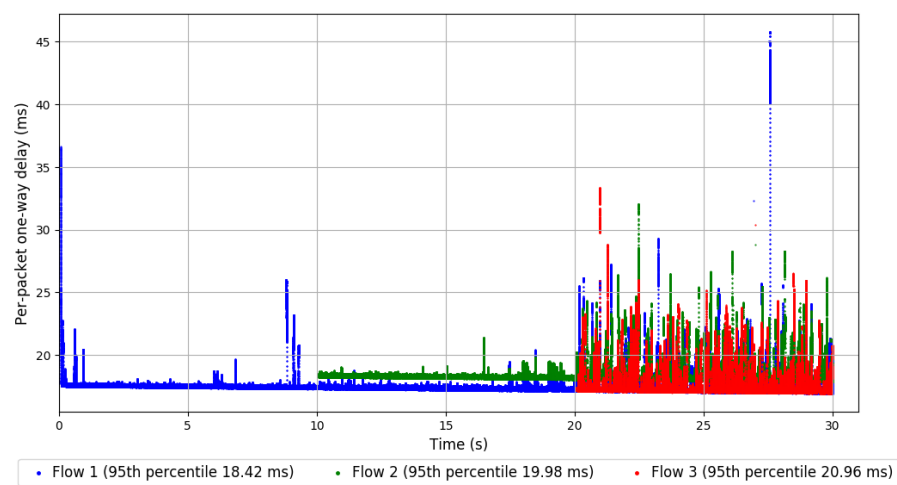
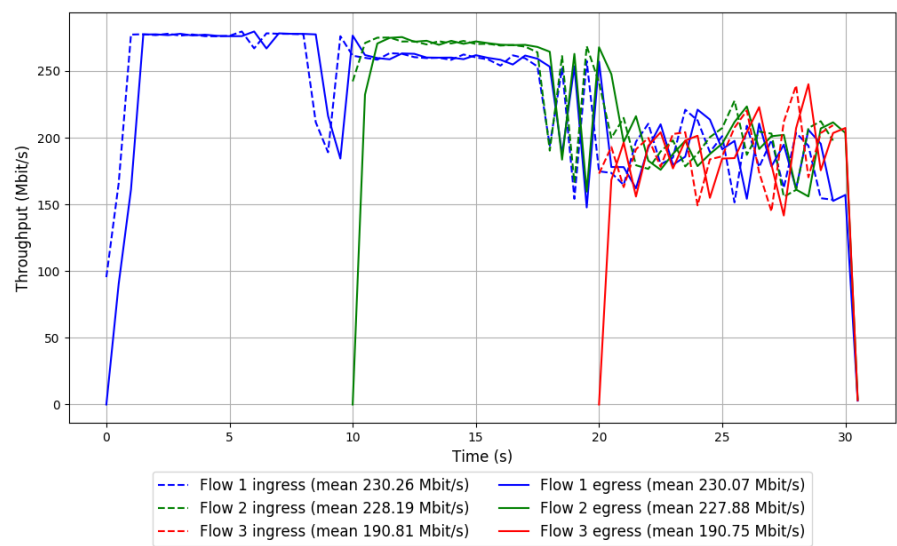
-- Flow 3:

Average throughput: 190.75 Mbit/s

95th percentile per-packet one-way delay: 20.965 ms

Loss rate: 0.02%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-07-17 19:42:38

End at: 2018-07-17 19:43:08

Local clock offset: -4.369 ms

Remote clock offset: 2.84 ms

Below is generated by plot.py at 2018-07-17 23:16:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 452.63 Mbit/s

95th percentile per-packet one-way delay: 21.507 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 237.88 Mbit/s

95th percentile per-packet one-way delay: 20.021 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 227.81 Mbit/s

95th percentile per-packet one-way delay: 21.652 ms

Loss rate: 0.01%

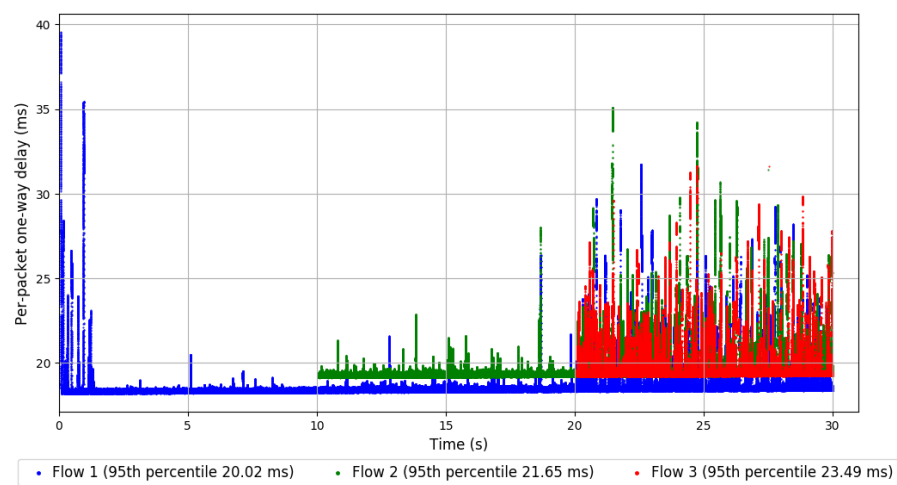
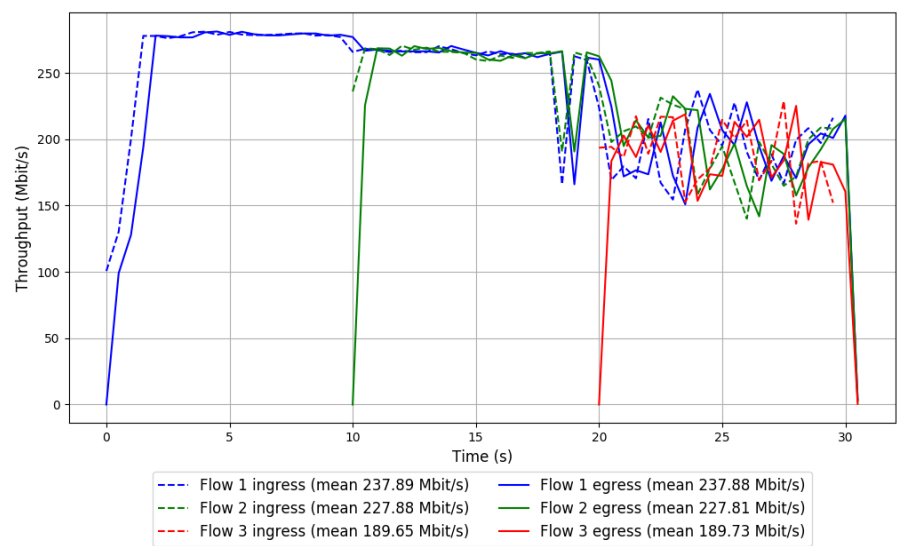
-- Flow 3:

Average throughput: 189.73 Mbit/s

95th percentile per-packet one-way delay: 23.493 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-07-17 20:09:57

End at: 2018-07-17 20:10:27

Local clock offset: -3.67 ms

Remote clock offset: 2.438 ms

Below is generated by plot.py at 2018-07-17 23:17:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 452.03 Mbit/s

95th percentile per-packet one-way delay: 21.367 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 241.35 Mbit/s

95th percentile per-packet one-way delay: 19.814 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 223.83 Mbit/s

95th percentile per-packet one-way delay: 21.700 ms

Loss rate: 0.01%

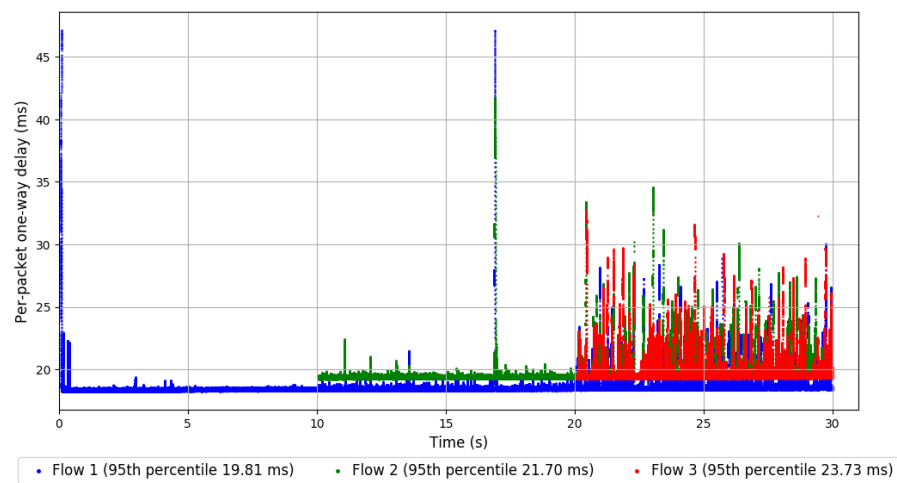
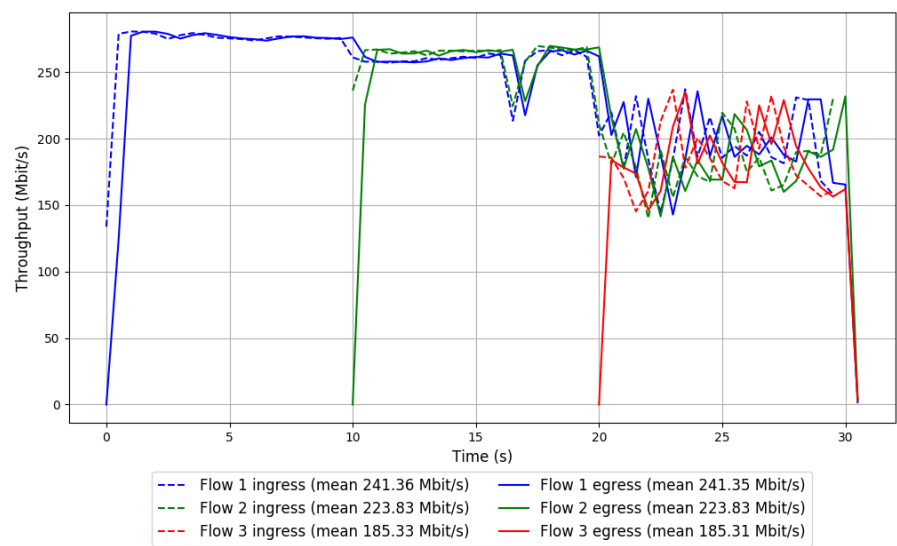
-- Flow 3:

Average throughput: 185.31 Mbit/s

95th percentile per-packet one-way delay: 23.734 ms

Loss rate: 0.01%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-07-17 20:37:20

End at: 2018-07-17 20:37:50

Local clock offset: -2.395 ms

Remote clock offset: 1.934 ms

Below is generated by plot.py at 2018-07-17 23:21:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 430.86 Mbit/s

95th percentile per-packet one-way delay: 20.710 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 199.21 Mbit/s

95th percentile per-packet one-way delay: 19.039 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 238.41 Mbit/s

95th percentile per-packet one-way delay: 20.745 ms

Loss rate: 0.00%

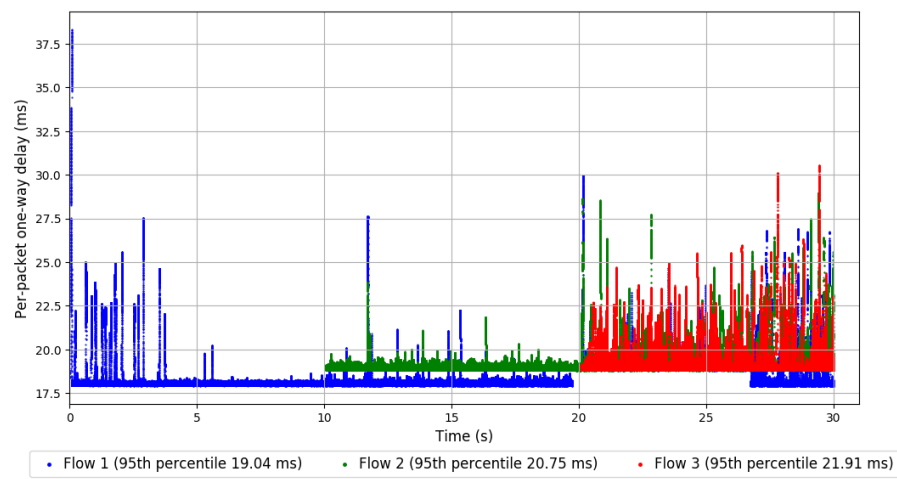
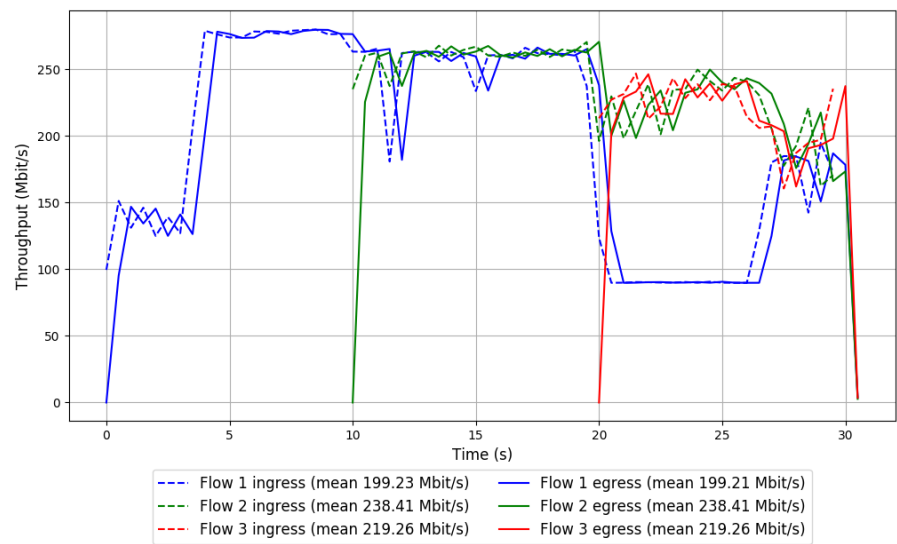
-- Flow 3:

Average throughput: 219.26 Mbit/s

95th percentile per-packet one-way delay: 21.907 ms

Loss rate: 0.01%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-07-17 21:04:21

End at: 2018-07-17 21:04:51

Local clock offset: -0.44 ms

Remote clock offset: 1.378 ms

Below is generated by plot.py at 2018-07-17 23:21:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 299.28 Mbit/s

95th percentile per-packet one-way delay: 18.568 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 149.03 Mbit/s

95th percentile per-packet one-way delay: 18.543 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 96.84 Mbit/s

95th percentile per-packet one-way delay: 18.706 ms

Loss rate: 0.17%

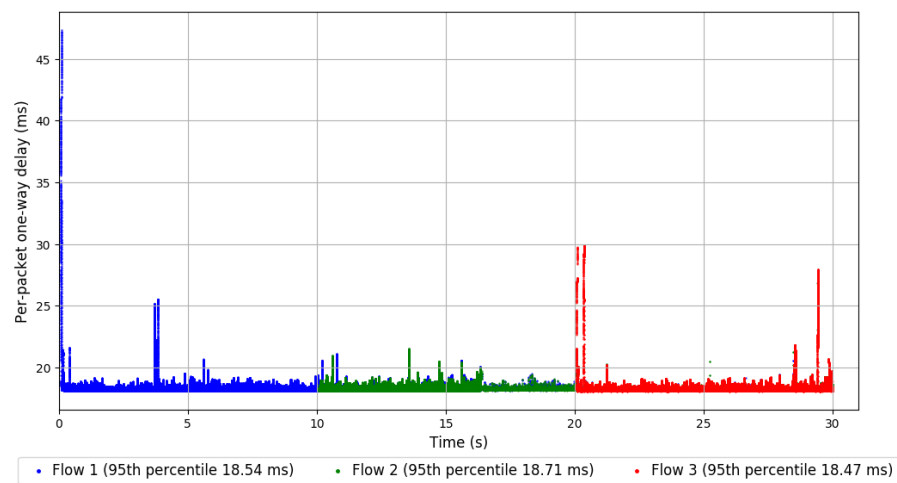
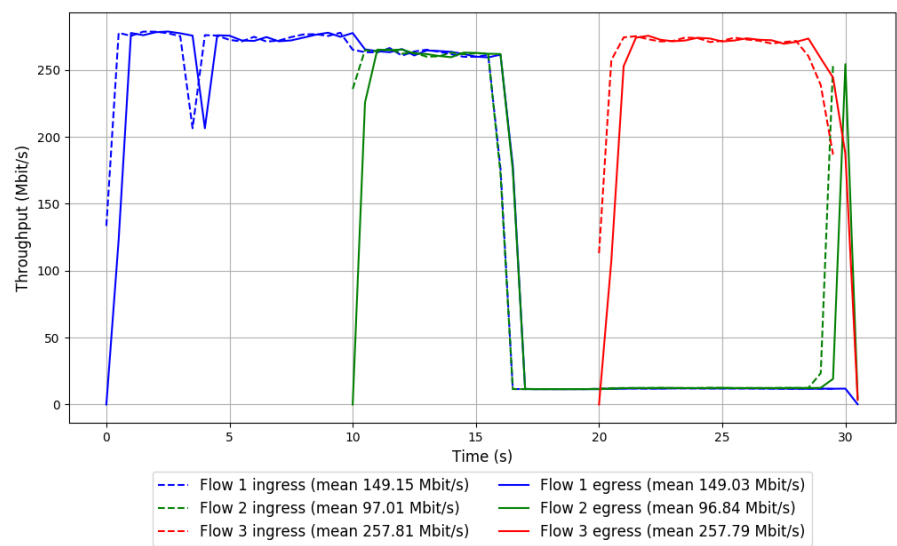
-- Flow 3:

Average throughput: 257.79 Mbit/s

95th percentile per-packet one-way delay: 18.470 ms

Loss rate: 0.00%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-07-17 17:01:06

End at: 2018-07-17 17:01:36

Local clock offset: -4.193 ms

Remote clock offset: 0.915 ms

Below is generated by plot.py at 2018-07-17 23:21:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 287.39 Mbit/s

95th percentile per-packet one-way delay: 23.070 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 74.98 Mbit/s

95th percentile per-packet one-way delay: 21.010 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 127.25 Mbit/s

95th percentile per-packet one-way delay: 23.387 ms

Loss rate: 0.28%

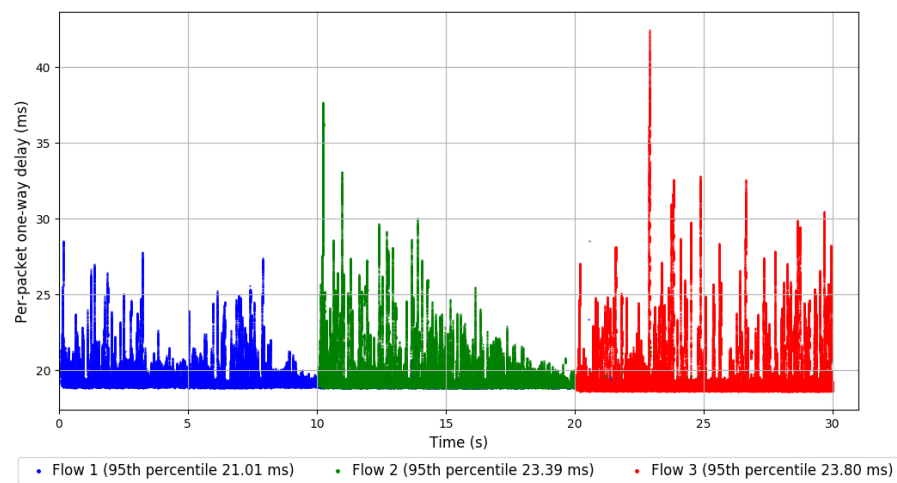
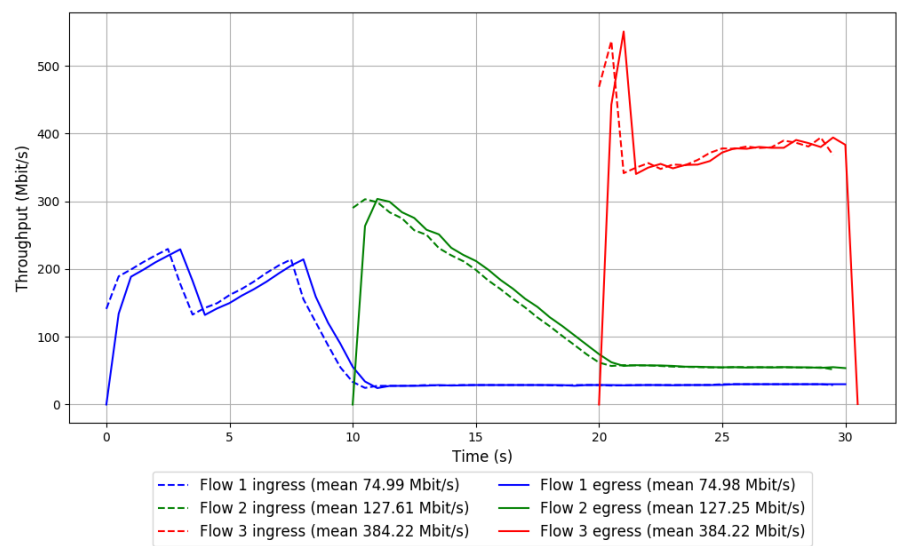
-- Flow 3:

Average throughput: 384.22 Mbit/s

95th percentile per-packet one-way delay: 23.802 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-07-17 17:28:29

End at: 2018-07-17 17:28:59

Local clock offset: 0.408 ms

Remote clock offset: 1.712 ms

Below is generated by plot.py at 2018-07-17 23:21:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 220.97 Mbit/s

95th percentile per-packet one-way delay: 21.569 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 69.64 Mbit/s

95th percentile per-packet one-way delay: 22.736 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 156.06 Mbit/s

95th percentile per-packet one-way delay: 21.168 ms

Loss rate: 0.01%

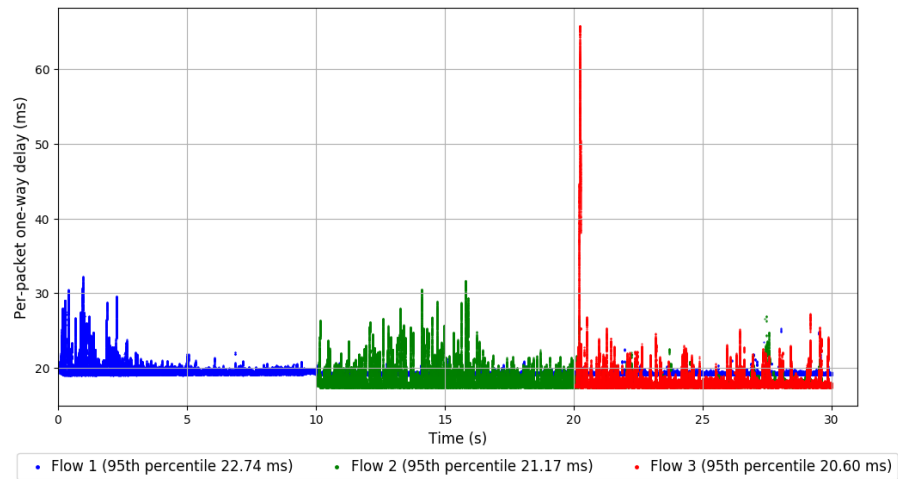
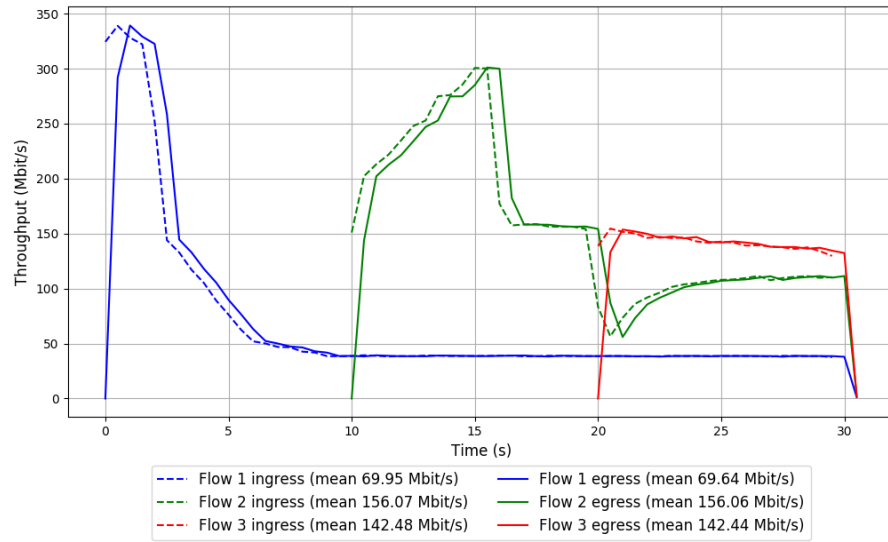
-- Flow 3:

Average throughput: 142.44 Mbit/s

95th percentile per-packet one-way delay: 20.596 ms

Loss rate: 0.03%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-07-17 17:55:56

End at: 2018-07-17 17:56:26

Local clock offset: 0.505 ms

Remote clock offset: 2.47 ms

Below is generated by plot.py at 2018-07-17 23:21:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 248.62 Mbit/s

95th percentile per-packet one-way delay: 24.287 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 111.42 Mbit/s

95th percentile per-packet one-way delay: 24.529 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 82.20 Mbit/s

95th percentile per-packet one-way delay: 23.167 ms

Loss rate: 0.60%

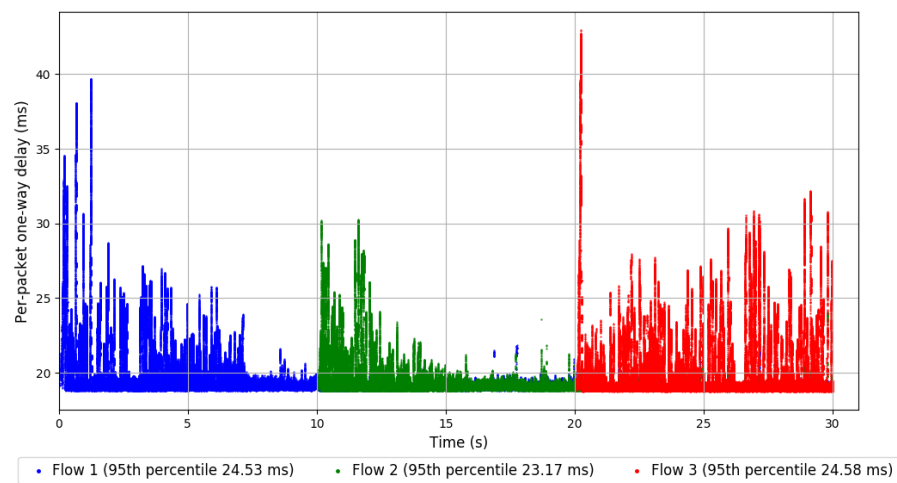
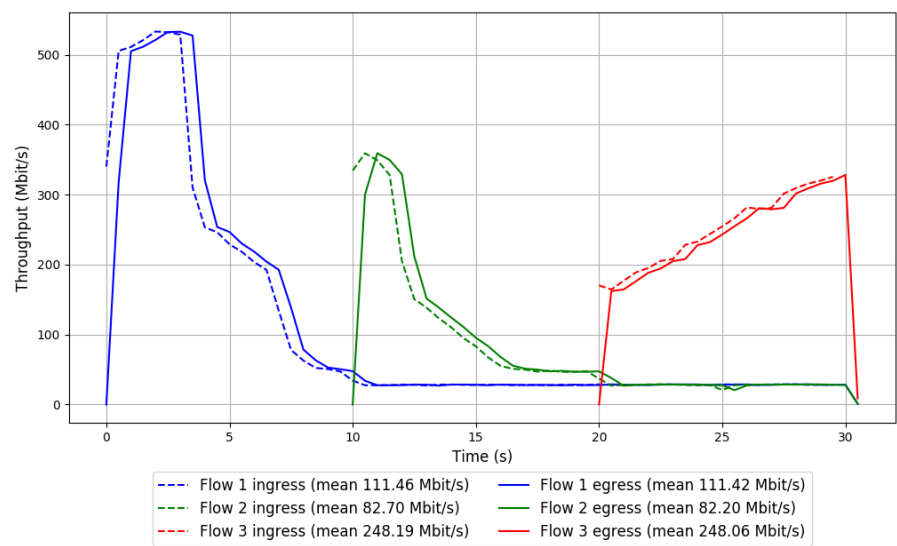
-- Flow 3:

Average throughput: 248.06 Mbit/s

95th percentile per-packet one-way delay: 24.580 ms

Loss rate: 0.05%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-07-17 18:23:04

End at: 2018-07-17 18:23:34

Local clock offset: 10.163 ms

Remote clock offset: 3.111 ms

Below is generated by plot.py at 2018-07-17 23:21:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 291.57 Mbit/s

95th percentile per-packet one-way delay: 22.560 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 175.52 Mbit/s

95th percentile per-packet one-way delay: 22.629 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 146.18 Mbit/s

95th percentile per-packet one-way delay: 22.795 ms

Loss rate: 0.08%

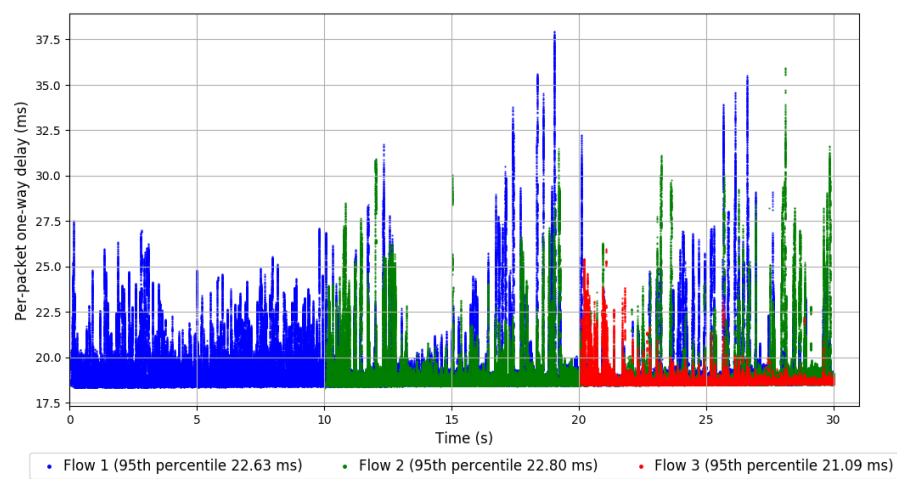
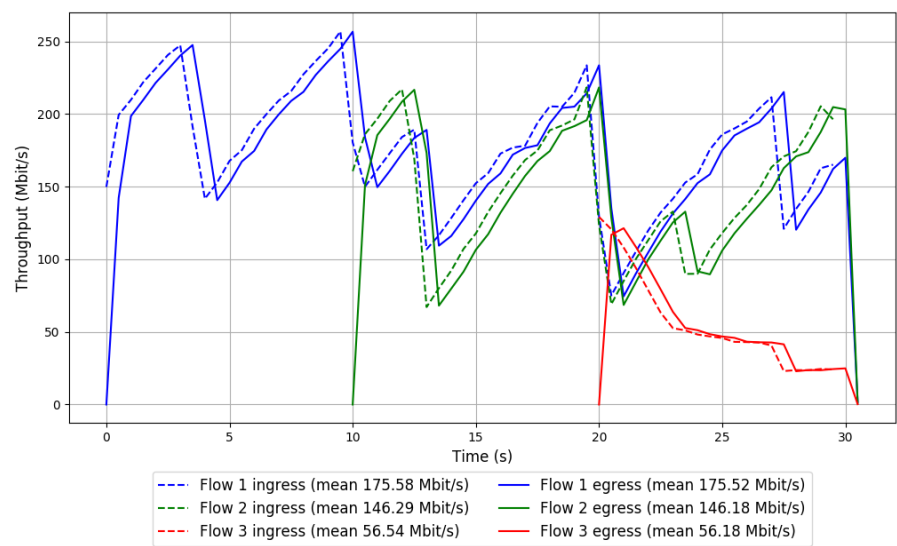
-- Flow 3:

Average throughput: 56.18 Mbit/s

95th percentile per-packet one-way delay: 21.093 ms

Loss rate: 0.64%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-07-17 18:50:21

End at: 2018-07-17 18:50:51

Local clock offset: 16.702 ms

Remote clock offset: 3.398 ms

Below is generated by plot.py at 2018-07-17 23:21:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 162.85 Mbit/s

95th percentile per-packet one-way delay: 20.770 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 119.90 Mbit/s

95th percentile per-packet one-way delay: 20.886 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 44.57 Mbit/s

95th percentile per-packet one-way delay: 21.104 ms

Loss rate: 0.50%

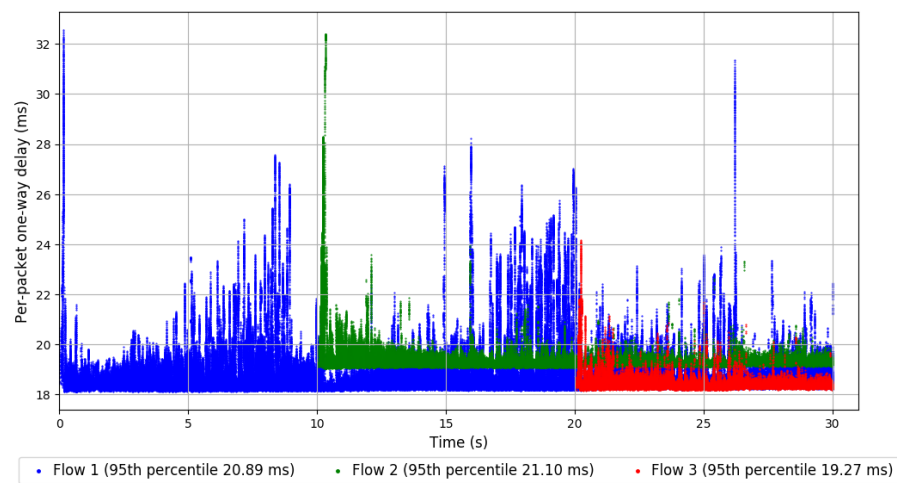
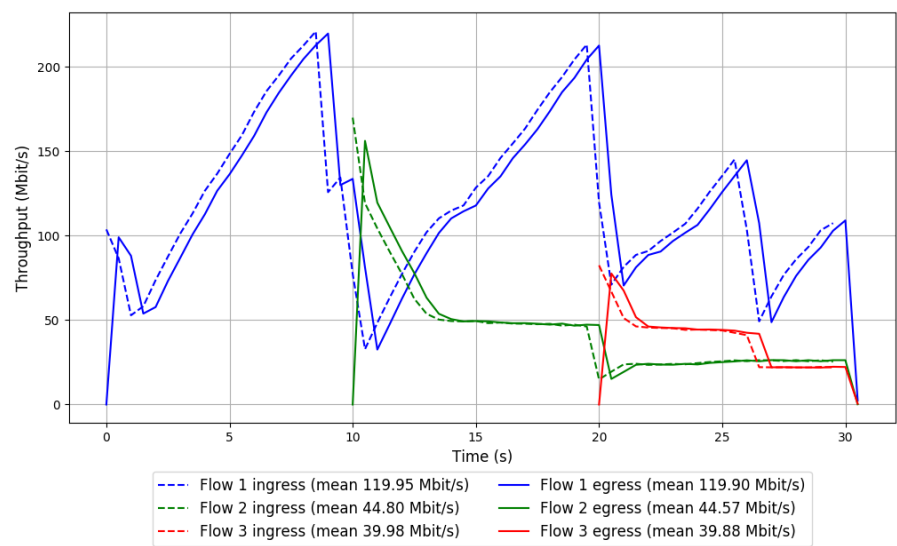
-- Flow 3:

Average throughput: 39.88 Mbit/s

95th percentile per-packet one-way delay: 19.268 ms

Loss rate: 0.26%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

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

End at: 2018-07-17 19:17:54

Local clock offset: 5.599 ms

Remote clock offset: 3.175 ms

Below is generated by plot.py at 2018-07-17 23:21:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 259.71 Mbit/s

95th percentile per-packet one-way delay: 22.308 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 141.54 Mbit/s

95th percentile per-packet one-way delay: 21.047 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 127.70 Mbit/s

95th percentile per-packet one-way delay: 25.315 ms

Loss rate: 0.11%

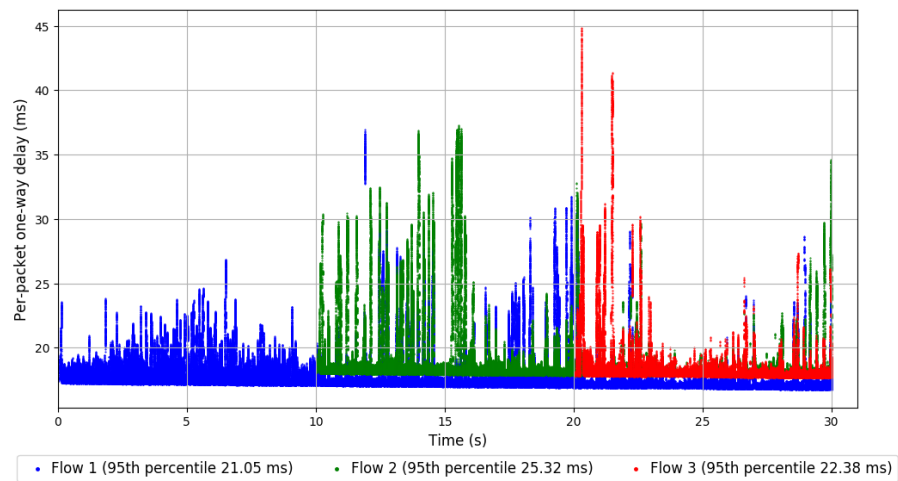
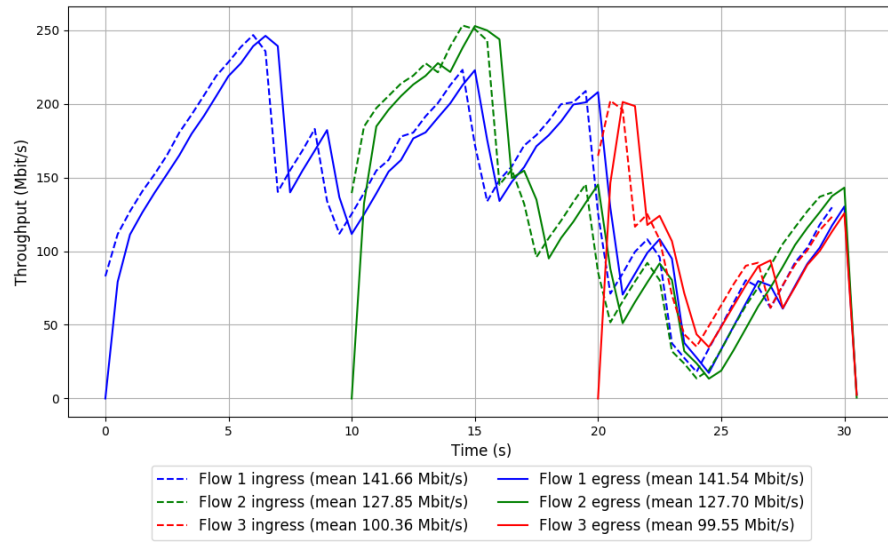
-- Flow 3:

Average throughput: 99.55 Mbit/s

95th percentile per-packet one-way delay: 22.377 ms

Loss rate: 0.77%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-07-17 19:44:23

End at: 2018-07-17 19:44:53

Local clock offset: -3.795 ms

Remote clock offset: 2.795 ms

Below is generated by plot.py at 2018-07-17 23:21:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 316.30 Mbit/s

95th percentile per-packet one-way delay: 25.989 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 78.18 Mbit/s

95th percentile per-packet one-way delay: 21.997 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 247.72 Mbit/s

95th percentile per-packet one-way delay: 27.143 ms

Loss rate: 0.01%

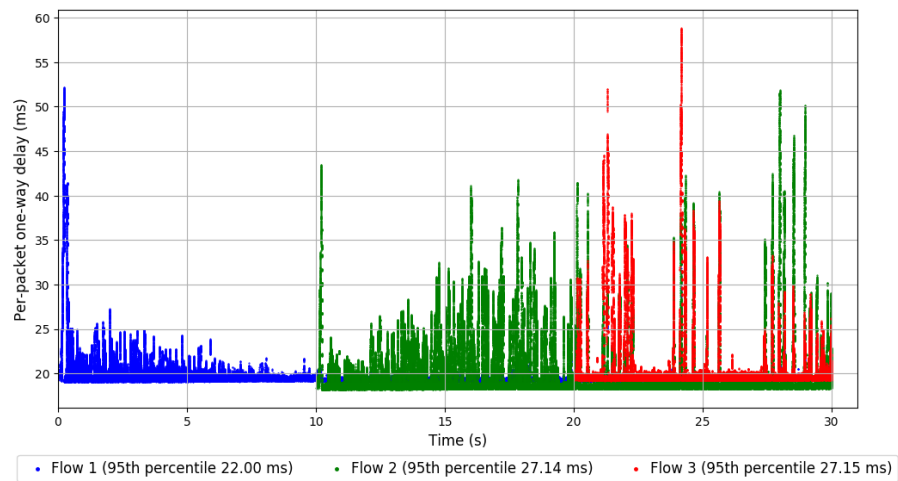
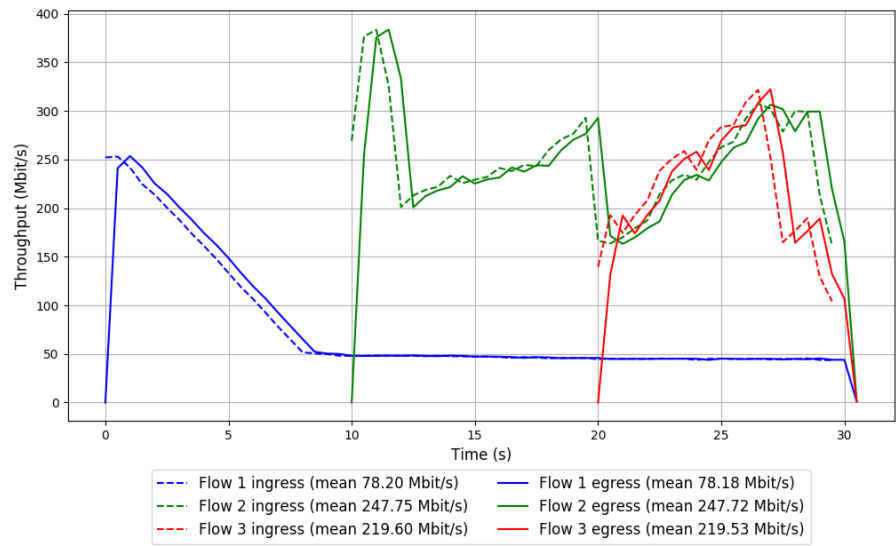
-- Flow 3:

Average throughput: 219.53 Mbit/s

95th percentile per-packet one-way delay: 27.148 ms

Loss rate: 0.04%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-07-17 20:11:42

End at: 2018-07-17 20:12:12

Local clock offset: -3.047 ms

Remote clock offset: 2.385 ms

Below is generated by plot.py at 2018-07-17 23:21:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 284.18 Mbit/s

95th percentile per-packet one-way delay: 25.175 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 151.62 Mbit/s

95th percentile per-packet one-way delay: 24.472 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 147.14 Mbit/s

95th percentile per-packet one-way delay: 26.580 ms

Loss rate: 0.02%

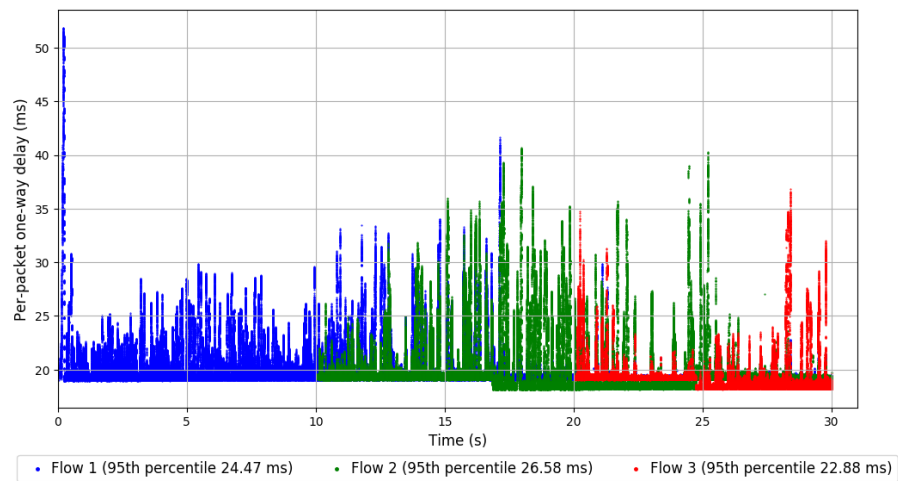
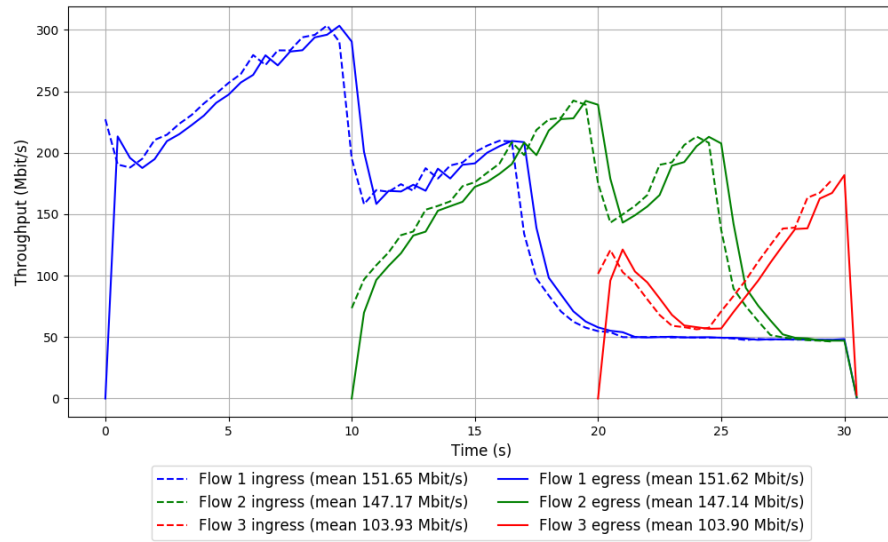
-- Flow 3:

Average throughput: 103.90 Mbit/s

95th percentile per-packet one-way delay: 22.882 ms

Loss rate: 0.03%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-07-17 20:39:04

End at: 2018-07-17 20:39:34

Local clock offset: -2.52 ms

Remote clock offset: 1.896 ms

Below is generated by plot.py at 2018-07-17 23:21:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 248.17 Mbit/s

95th percentile per-packet one-way delay: 23.406 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 113.87 Mbit/s

95th percentile per-packet one-way delay: 21.817 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 120.42 Mbit/s

95th percentile per-packet one-way delay: 23.842 ms

Loss rate: 0.03%

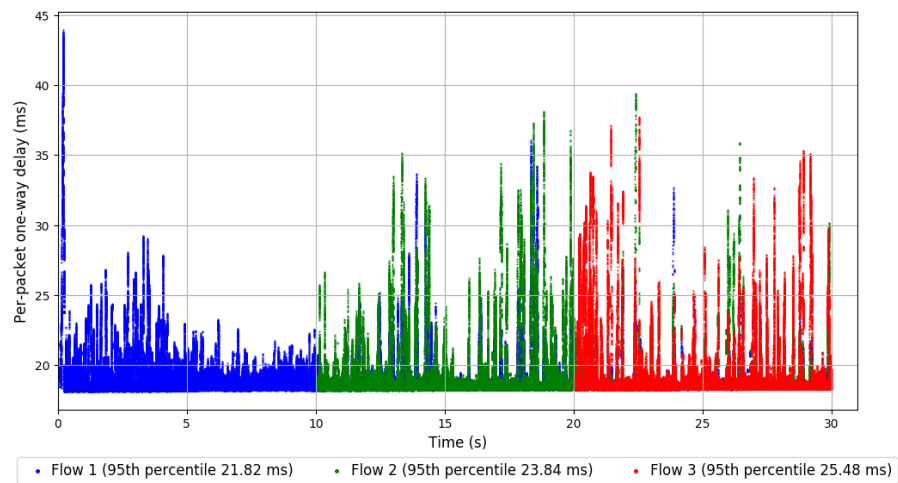
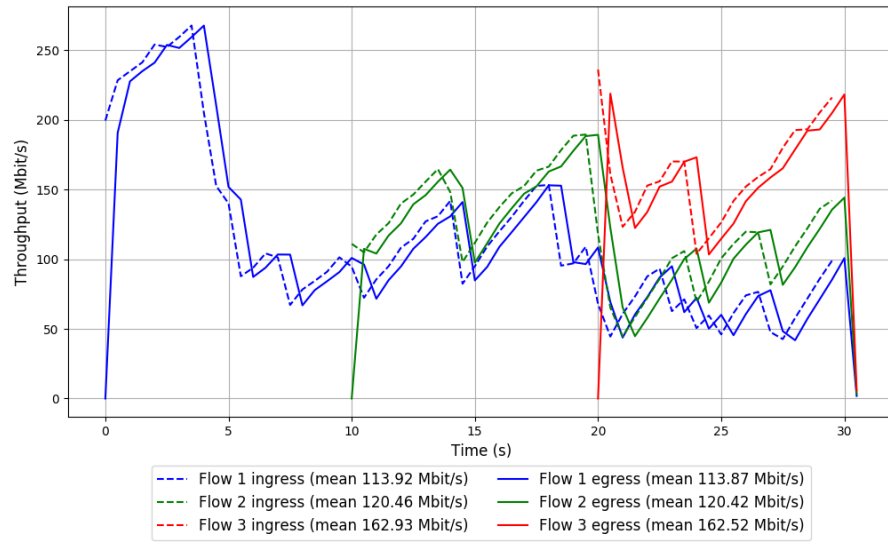
-- Flow 3:

Average throughput: 162.52 Mbit/s

95th percentile per-packet one-way delay: 25.479 ms

Loss rate: 0.24%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-07-17 21:05:58

End at: 2018-07-17 21:06:28

Local clock offset: -0.378 ms

Remote clock offset: 1.274 ms

Below is generated by plot.py at 2018-07-17 23:22:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 295.39 Mbit/s

95th percentile per-packet one-way delay: 23.960 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 147.55 Mbit/s

95th percentile per-packet one-way delay: 23.076 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 129.48 Mbit/s

95th percentile per-packet one-way delay: 25.029 ms

Loss rate: 0.13%

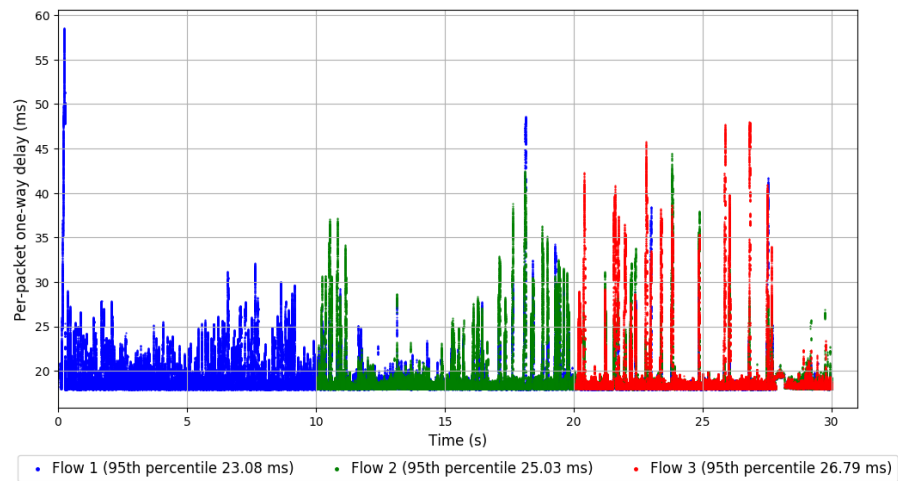
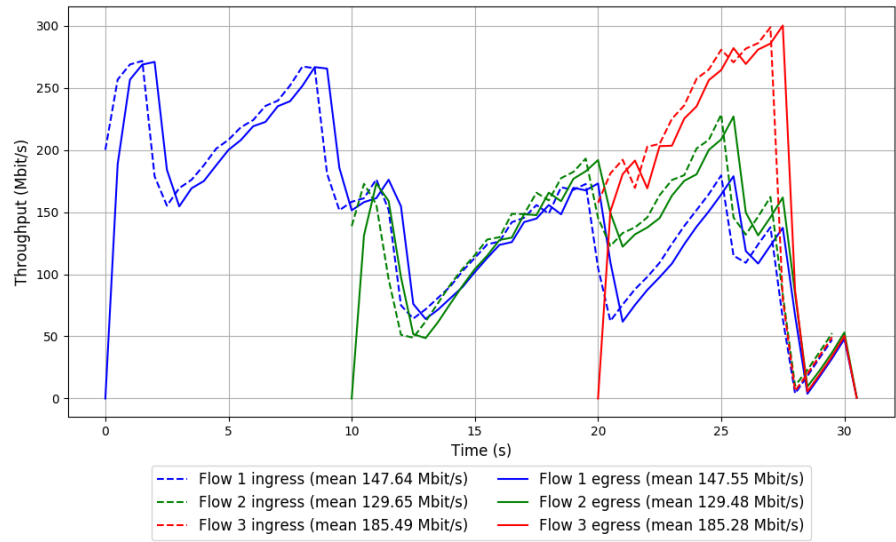
-- Flow 3:

Average throughput: 185.28 Mbit/s

95th percentile per-packet one-way delay: 26.793 ms

Loss rate: 0.11%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-07-17 16:41:40

End at: 2018-07-17 16:42:10

Local clock offset: -1.891 ms

Remote clock offset: 0.468 ms

Below is generated by plot.py at 2018-07-17 23:24:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 407.22 Mbit/s

95th percentile per-packet one-way delay: 35.568 ms

Loss rate: 20.67%

-- Flow 1:

Average throughput: 214.05 Mbit/s

95th percentile per-packet one-way delay: 40.228 ms

Loss rate: 20.21%

-- Flow 2:

Average throughput: 216.69 Mbit/s

95th percentile per-packet one-way delay: 29.565 ms

Loss rate: 21.25%

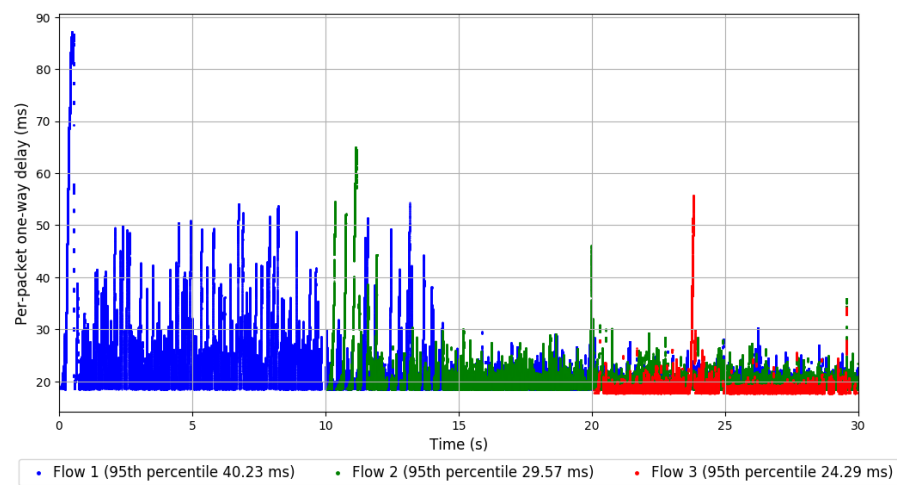
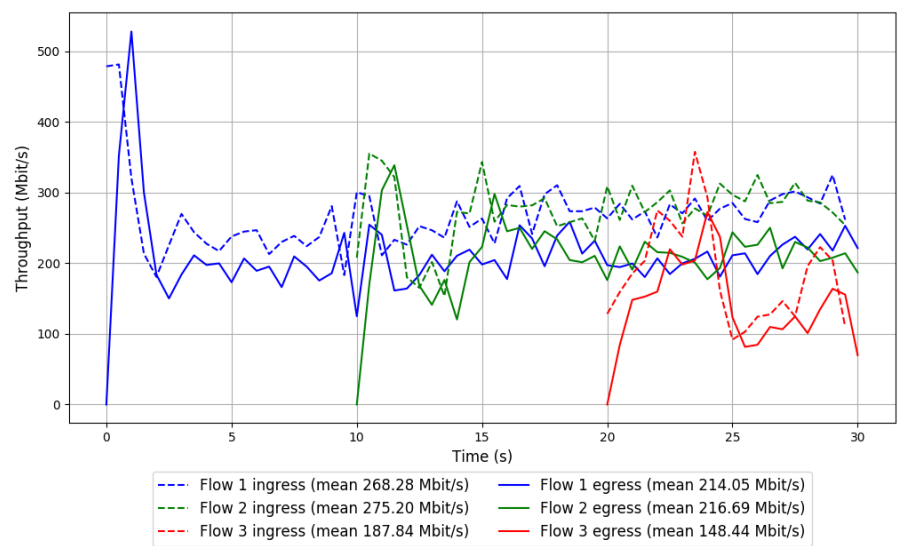
-- Flow 3:

Average throughput: 148.44 Mbit/s

95th percentile per-packet one-way delay: 24.291 ms

Loss rate: 20.98%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-07-17 17:08:56

End at: 2018-07-17 17:09:26

Local clock offset: -4.672 ms

Remote clock offset: 1.088 ms

Below is generated by plot.py at 2018-07-17 23:24:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 382.33 Mbit/s

95th percentile per-packet one-way delay: 43.459 ms

Loss rate: 27.96%

-- Flow 1:

Average throughput: 182.04 Mbit/s

95th percentile per-packet one-way delay: 49.260 ms

Loss rate: 26.75%

-- Flow 2:

Average throughput: 237.37 Mbit/s

95th percentile per-packet one-way delay: 34.693 ms

Loss rate: 30.93%

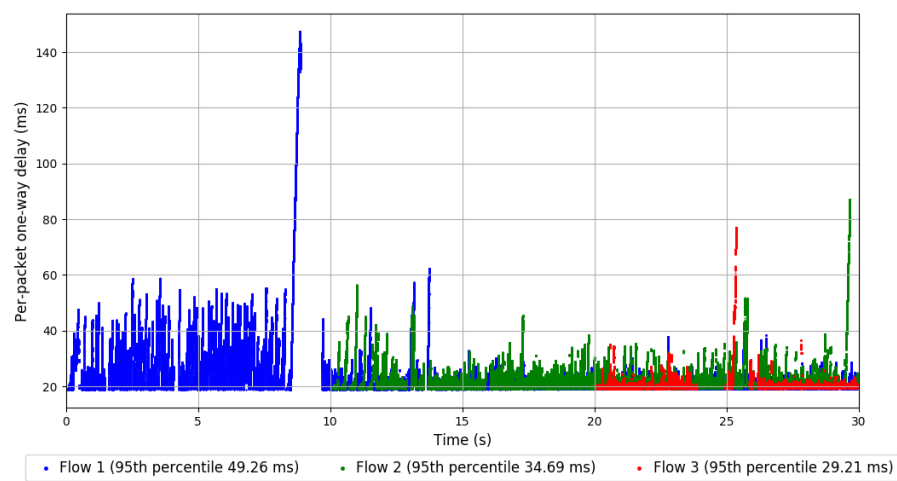
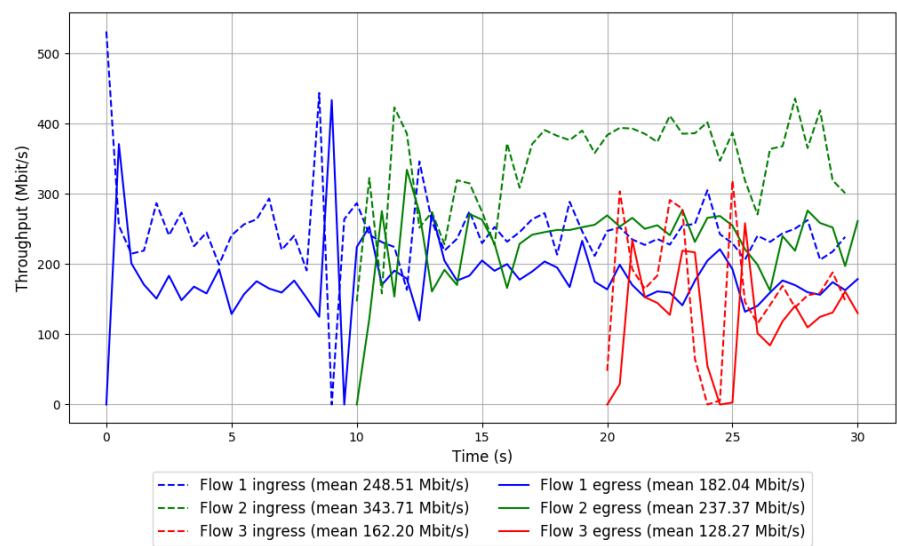
-- Flow 3:

Average throughput: 128.27 Mbit/s

95th percentile per-packet one-way delay: 29.212 ms

Loss rate: 20.93%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-07-17 17:36:13

End at: 2018-07-17 17:36:43

Local clock offset: 1.046 ms

Remote clock offset: 1.915 ms

Below is generated by plot.py at 2018-07-17 23:24:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 374.12 Mbit/s

95th percentile per-packet one-way delay: 42.934 ms

Loss rate: 24.34%

-- Flow 1:

Average throughput: 200.62 Mbit/s

95th percentile per-packet one-way delay: 52.651 ms

Loss rate: 21.30%

-- Flow 2:

Average throughput: 202.95 Mbit/s

95th percentile per-packet one-way delay: 29.950 ms

Loss rate: 28.94%

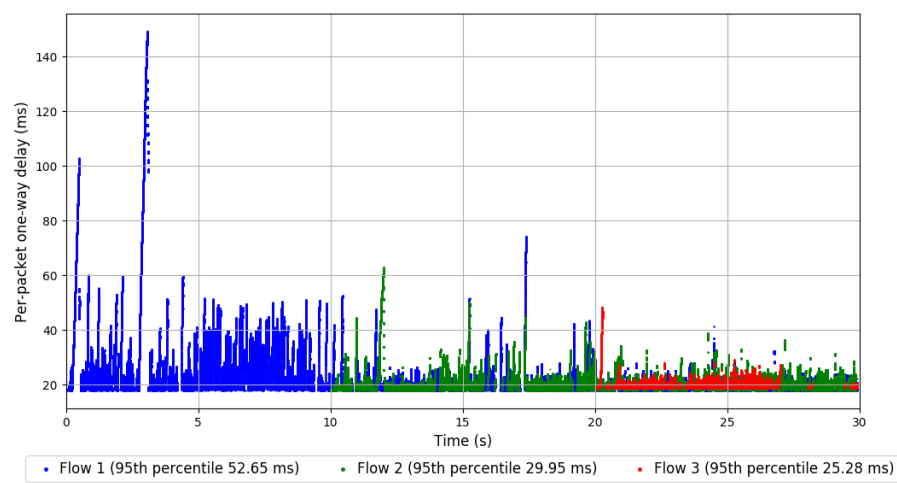
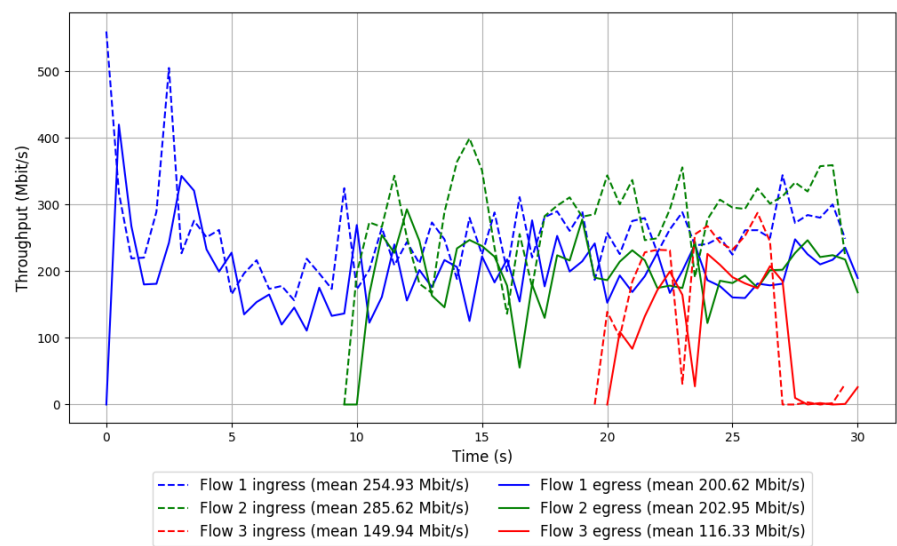
-- Flow 3:

Average throughput: 116.33 Mbit/s

95th percentile per-packet one-way delay: 25.279 ms

Loss rate: 22.41%

Run 3: Report of Verus — Data Link

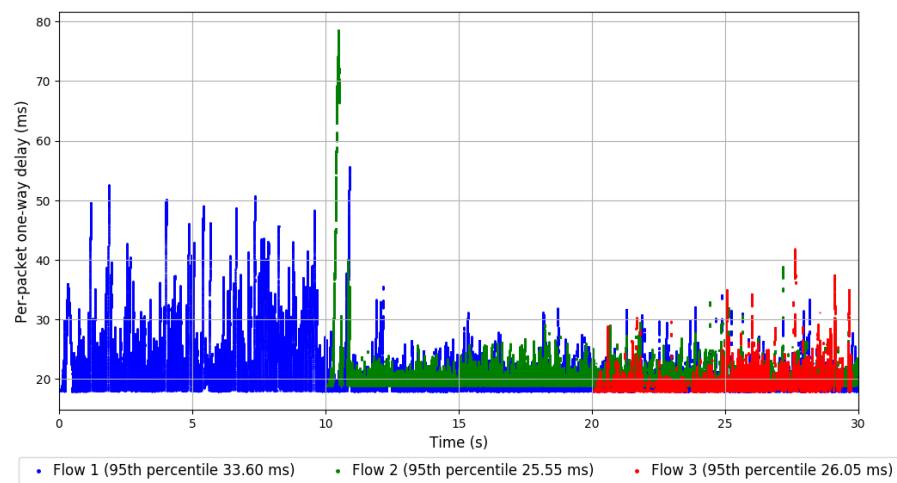
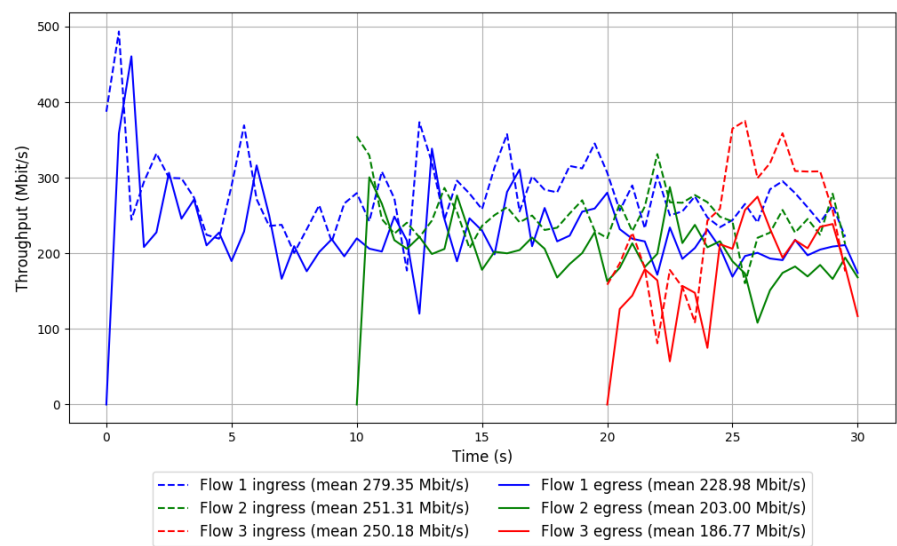


Run 4: Statistics of Verus

Start at: 2018-07-17 18:03:40
End at: 2018-07-17 18:04:10
Local clock offset: 0.546 ms
Remote clock offset: 2.612 ms

```
# Below is generated by plot.py at 2018-07-17 23:26:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 424.49 Mbit/s
95th percentile per-packet one-way delay: 31.380 ms
Loss rate: 19.53%
-- Flow 1:
Average throughput: 228.98 Mbit/s
95th percentile per-packet one-way delay: 33.599 ms
Loss rate: 18.02%
-- Flow 2:
Average throughput: 203.00 Mbit/s
95th percentile per-packet one-way delay: 25.553 ms
Loss rate: 19.22%
-- Flow 3:
Average throughput: 186.77 Mbit/s
95th percentile per-packet one-way delay: 26.047 ms
Loss rate: 25.33%
```

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-07-17 18:30:51

End at: 2018-07-17 18:31:21

Local clock offset: 12.6 ms

Remote clock offset: 3.233 ms

Below is generated by plot.py at 2018-07-17 23:26:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 389.07 Mbit/s

95th percentile per-packet one-way delay: 35.288 ms

Loss rate: 22.16%

-- Flow 1:

Average throughput: 217.20 Mbit/s

95th percentile per-packet one-way delay: 36.454 ms

Loss rate: 20.38%

-- Flow 2:

Average throughput: 178.35 Mbit/s

95th percentile per-packet one-way delay: 33.905 ms

Loss rate: 26.82%

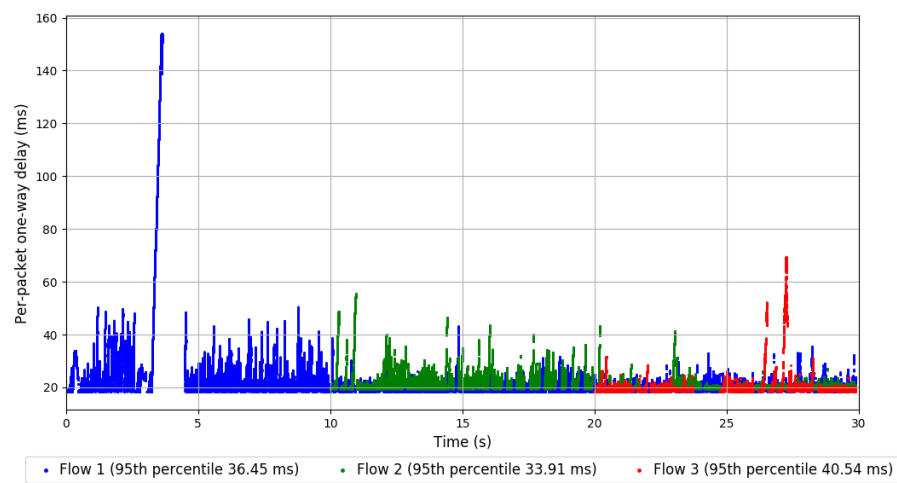
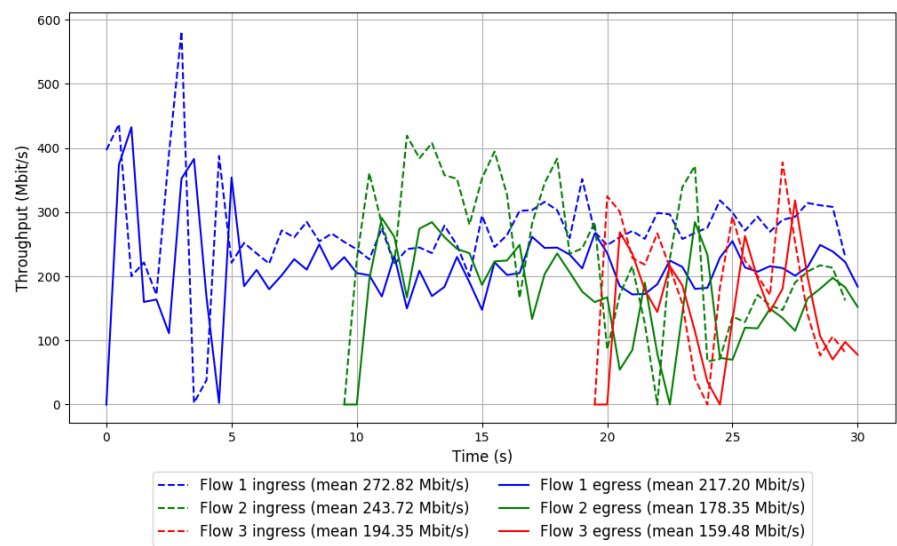
-- Flow 3:

Average throughput: 159.48 Mbit/s

95th percentile per-packet one-way delay: 40.541 ms

Loss rate: 17.94%

Run 5: Report of Verus — Data Link

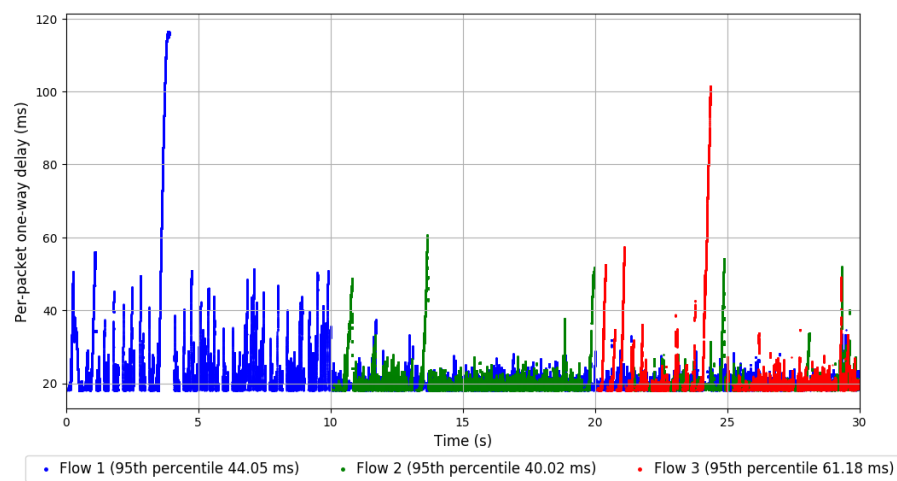
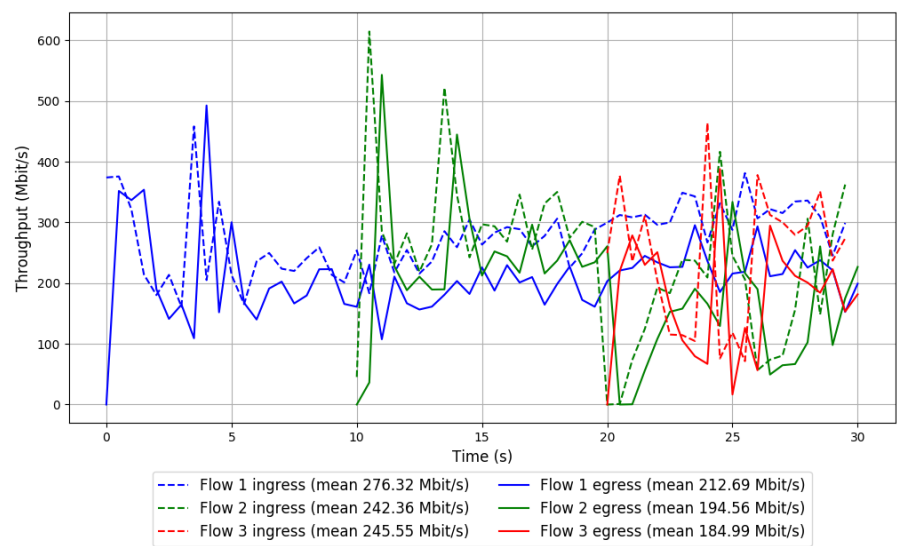


Run 6: Statistics of Verus

Start at: 2018-07-17 18:58:02
End at: 2018-07-17 18:58:32
Local clock offset: 17.585 ms
Remote clock offset: 3.437 ms

```
# Below is generated by plot.py at 2018-07-17 23:26:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 403.37 Mbit/s
95th percentile per-packet one-way delay: 45.146 ms
Loss rate: 22.25%
-- Flow 1:
Average throughput: 212.69 Mbit/s
95th percentile per-packet one-way delay: 44.052 ms
Loss rate: 23.02%
-- Flow 2:
Average throughput: 194.56 Mbit/s
95th percentile per-packet one-way delay: 40.019 ms
Loss rate: 19.72%
-- Flow 3:
Average throughput: 184.99 Mbit/s
95th percentile per-packet one-way delay: 61.179 ms
Loss rate: 24.65%
```

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-07-17 19:25:03

End at: 2018-07-17 19:25:33

Local clock offset: -0.436 ms

Remote clock offset: 3.076 ms

Below is generated by plot.py at 2018-07-17 23:26:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 397.21 Mbit/s

95th percentile per-packet one-way delay: 34.400 ms

Loss rate: 26.29%

-- Flow 1:

Average throughput: 179.59 Mbit/s

95th percentile per-packet one-way delay: 41.772 ms

Loss rate: 23.70%

-- Flow 2:

Average throughput: 226.46 Mbit/s

95th percentile per-packet one-way delay: 31.407 ms

Loss rate: 28.79%

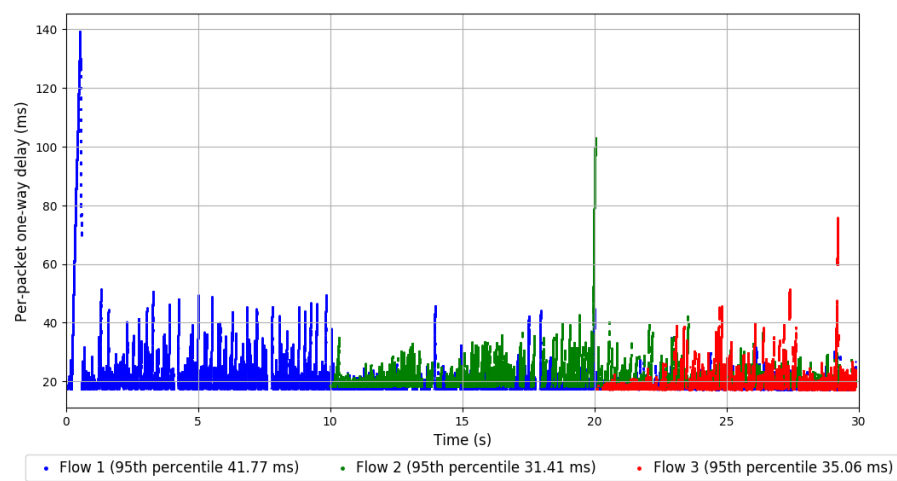
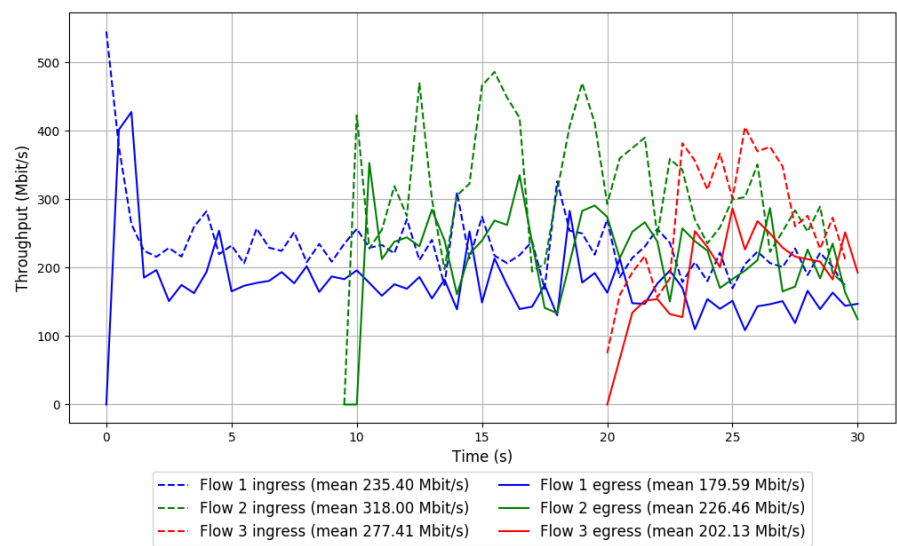
-- Flow 3:

Average throughput: 202.13 Mbit/s

95th percentile per-packet one-way delay: 35.059 ms

Loss rate: 27.13%

Run 7: Report of Verus — Data Link

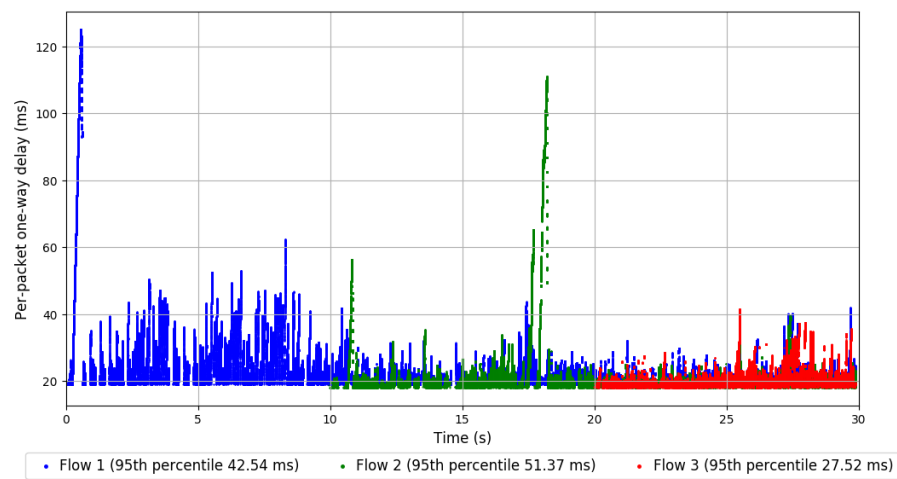
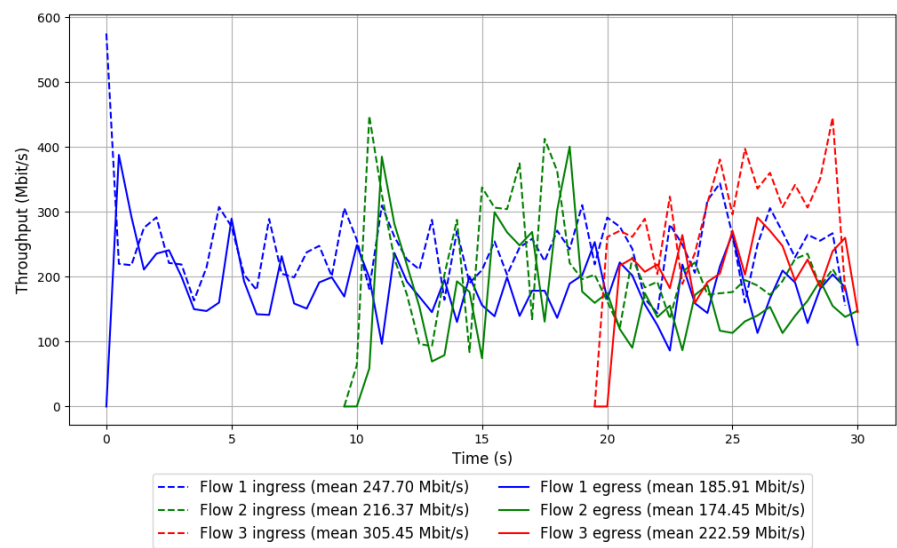


Run 8: Statistics of Verus

Start at: 2018-07-17 19:52:14
End at: 2018-07-17 19:52:44
Local clock offset: -2.488 ms
Remote clock offset: 2.754 ms

Below is generated by plot.py at 2018-07-17 23:27:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 376.14 Mbit/s
95th percentile per-packet one-way delay: 39.685 ms
Loss rate: 23.76%
-- Flow 1:
Average throughput: 185.91 Mbit/s
95th percentile per-packet one-way delay: 42.540 ms
Loss rate: 24.94%
-- Flow 2:
Average throughput: 174.45 Mbit/s
95th percentile per-packet one-way delay: 51.369 ms
Loss rate: 19.36%
-- Flow 3:
Average throughput: 222.59 Mbit/s
95th percentile per-packet one-way delay: 27.524 ms
Loss rate: 27.12%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-07-17 20:19:32

End at: 2018-07-17 20:20:02

Local clock offset: -1.935 ms

Remote clock offset: 2.257 ms

Below is generated by plot.py at 2018-07-17 23:29:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 418.78 Mbit/s

95th percentile per-packet one-way delay: 33.114 ms

Loss rate: 25.52%

-- Flow 1:

Average throughput: 229.68 Mbit/s

95th percentile per-packet one-way delay: 40.332 ms

Loss rate: 20.38%

-- Flow 2:

Average throughput: 211.67 Mbit/s

95th percentile per-packet one-way delay: 31.077 ms

Loss rate: 30.57%

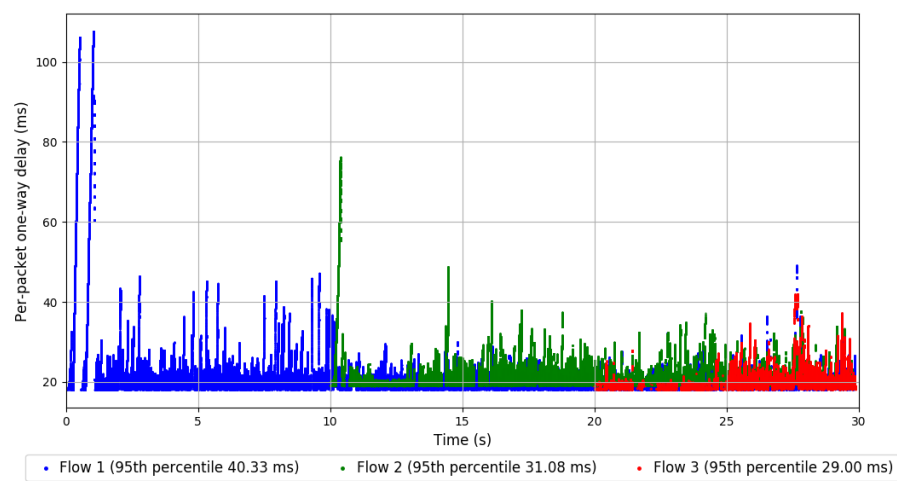
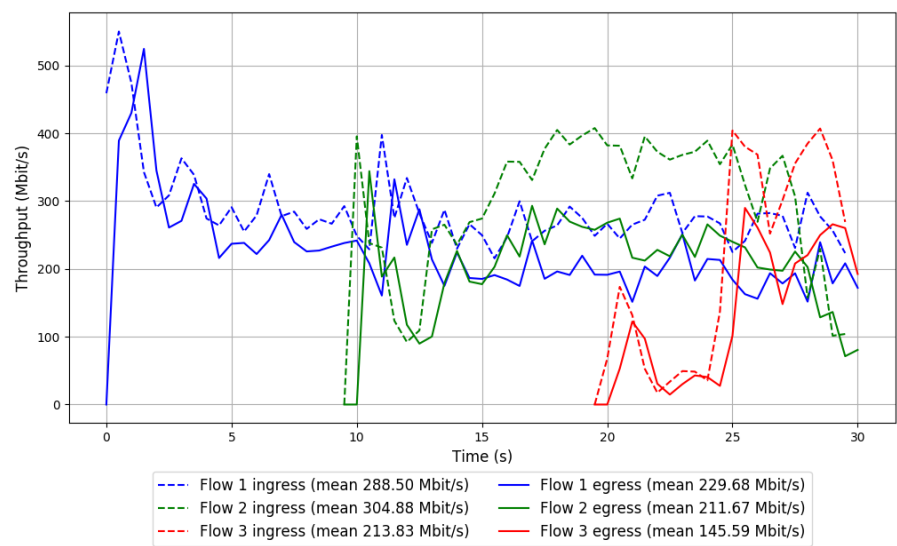
-- Flow 3:

Average throughput: 145.59 Mbit/s

95th percentile per-packet one-way delay: 28.999 ms

Loss rate: 31.92%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-07-17 20:46:40

End at: 2018-07-17 20:47:10

Local clock offset: -0.919 ms

Remote clock offset: 1.669 ms

Below is generated by plot.py at 2018-07-17 23:29:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 384.60 Mbit/s

95th percentile per-packet one-way delay: 42.144 ms

Loss rate: 25.89%

-- Flow 1:

Average throughput: 200.56 Mbit/s

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

Loss rate: 24.16%

-- Flow 2:

Average throughput: 193.79 Mbit/s

95th percentile per-packet one-way delay: 41.166 ms

Loss rate: 28.03%

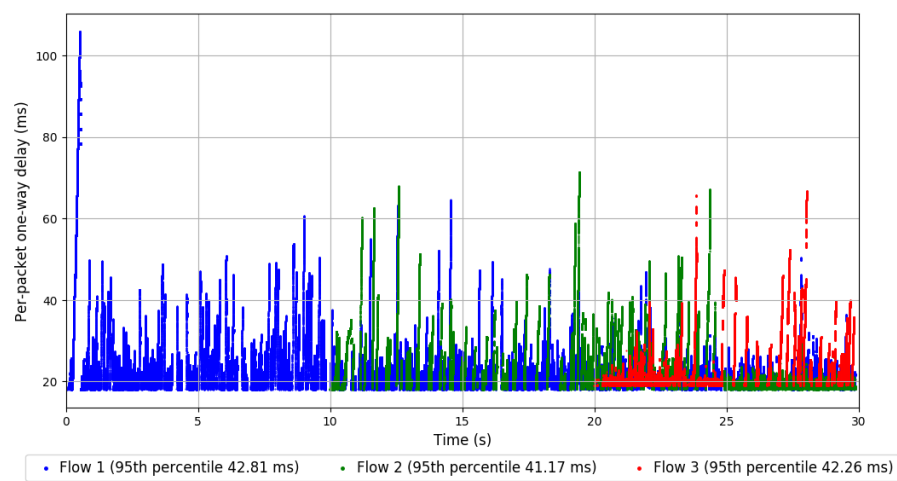
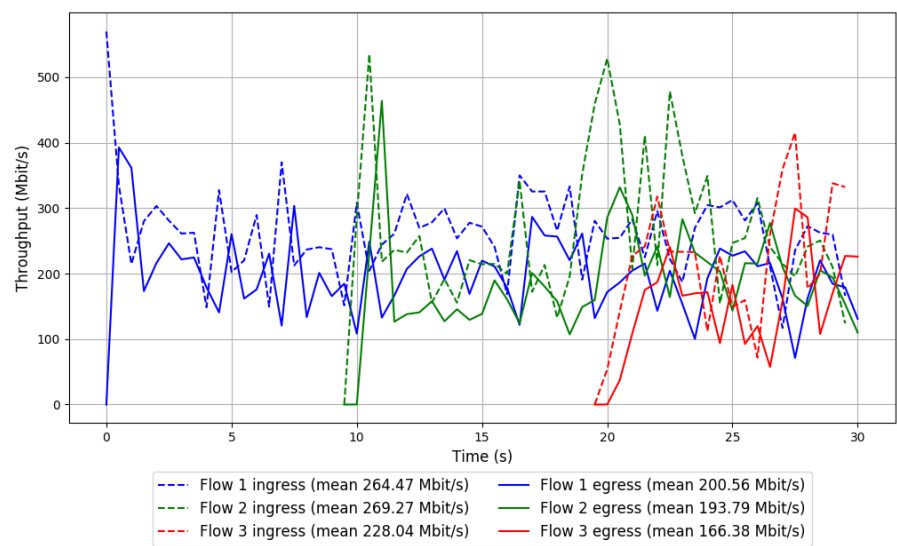
-- Flow 3:

Average throughput: 166.38 Mbit/s

95th percentile per-packet one-way delay: 42.263 ms

Loss rate: 26.91%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-07-17 16:54:59

End at: 2018-07-17 16:55:29

Local clock offset: -3.68 ms

Remote clock offset: 0.835 ms

Below is generated by plot.py at 2018-07-17 23:32:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 633.29 Mbit/s

95th percentile per-packet one-way delay: 90.748 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 403.25 Mbit/s

95th percentile per-packet one-way delay: 96.742 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 302.82 Mbit/s

95th percentile per-packet one-way delay: 22.818 ms

Loss rate: 0.95%

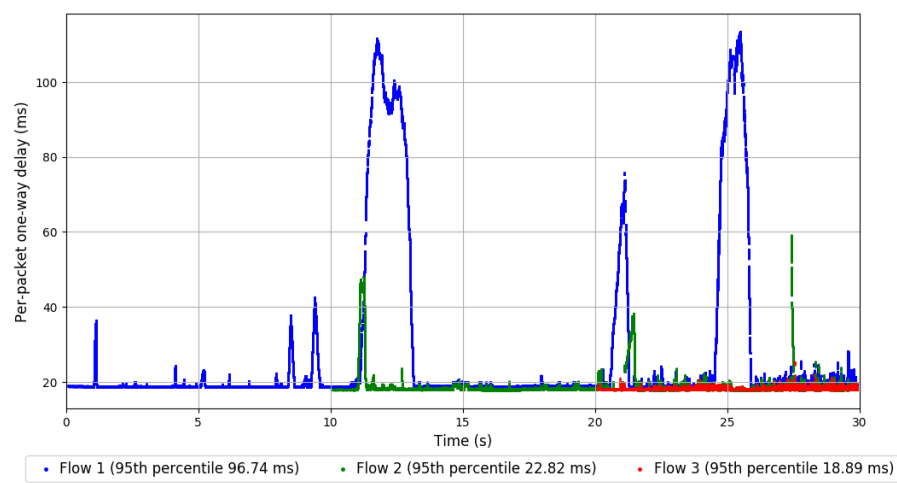
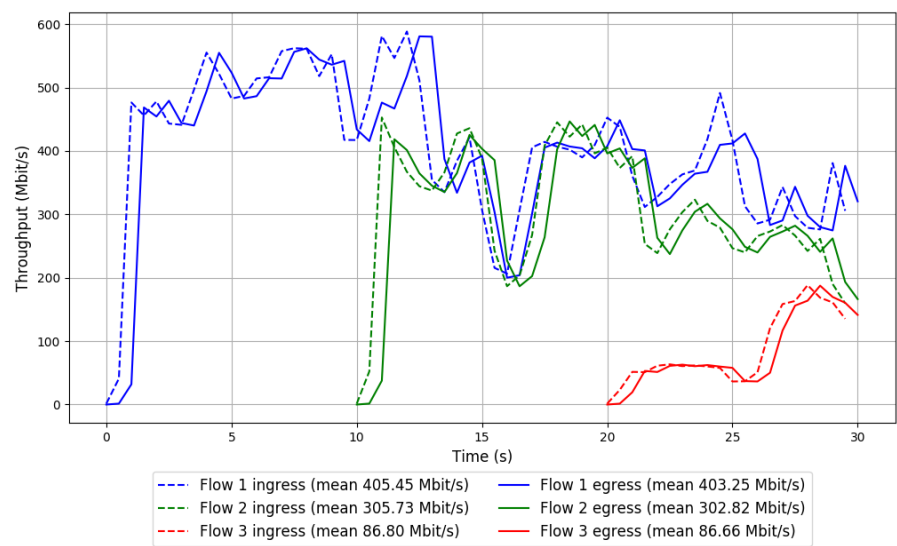
-- Flow 3:

Average throughput: 86.66 Mbit/s

95th percentile per-packet one-way delay: 18.890 ms

Loss rate: 0.15%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

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

End at: 2018-07-17 17:22:47

Local clock offset: -0.353 ms

Remote clock offset: 1.56 ms

Below is generated by plot.py at 2018-07-17 23:33:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 601.93 Mbit/s

95th percentile per-packet one-way delay: 29.484 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 370.66 Mbit/s

95th percentile per-packet one-way delay: 28.096 ms

Loss rate: 0.97%

-- Flow 2:

Average throughput: 281.68 Mbit/s

95th percentile per-packet one-way delay: 37.267 ms

Loss rate: 0.91%

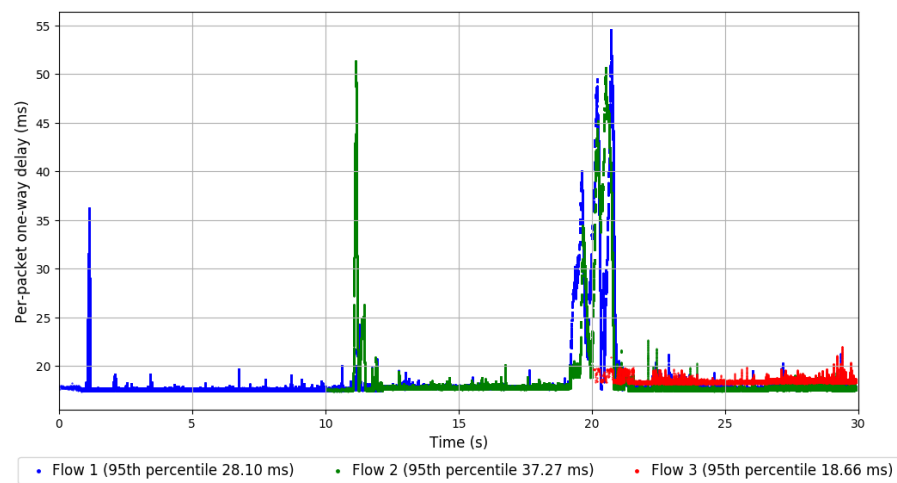
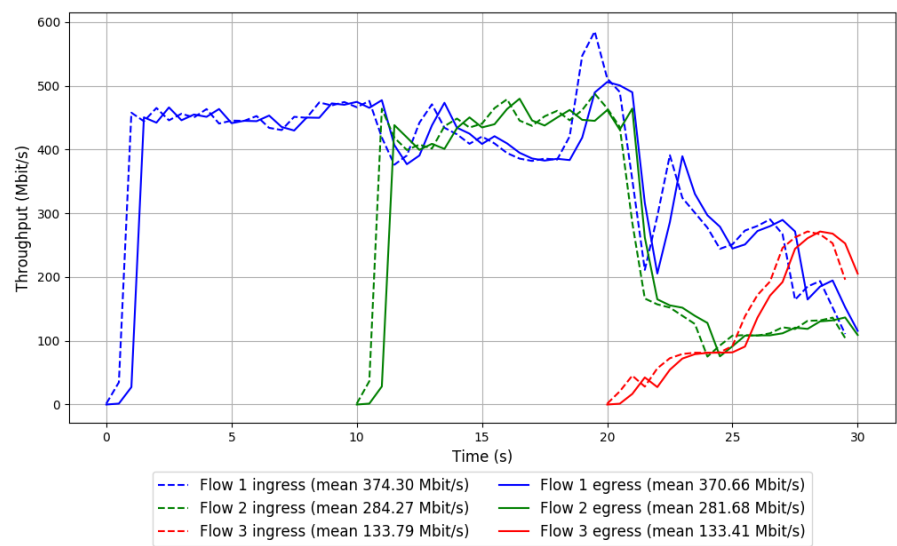
-- Flow 3:

Average throughput: 133.41 Mbit/s

95th percentile per-packet one-way delay: 18.655 ms

Loss rate: 0.30%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-07-17 17:49:43

End at: 2018-07-17 17:50:13

Local clock offset: 0.618 ms

Remote clock offset: 2.321 ms

Below is generated by plot.py at 2018-07-17 23:33:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 634.75 Mbit/s

95th percentile per-packet one-way delay: 20.635 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 393.48 Mbit/s

95th percentile per-packet one-way delay: 23.983 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 254.88 Mbit/s

95th percentile per-packet one-way delay: 19.659 ms

Loss rate: 0.60%

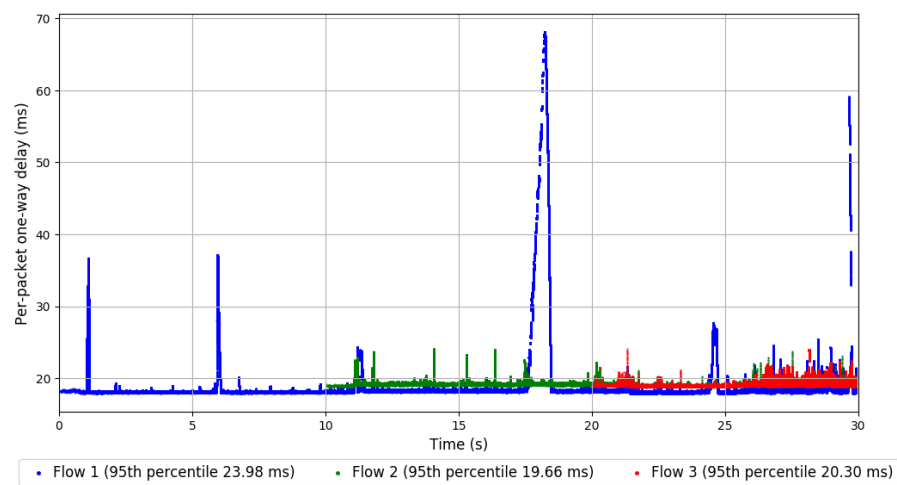
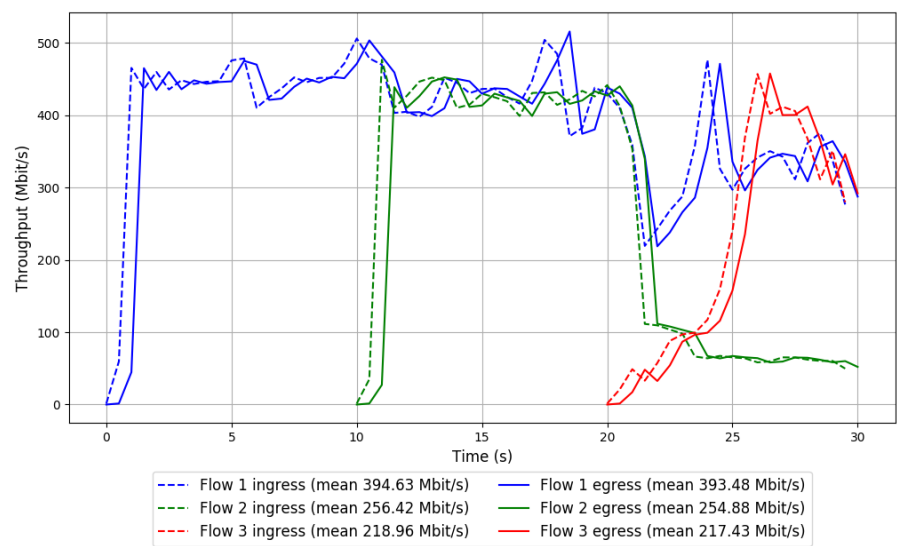
-- Flow 3:

Average throughput: 217.43 Mbit/s

95th percentile per-packet one-way delay: 20.297 ms

Loss rate: 0.70%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-07-17 18:16:51

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

Local clock offset: 7.277 ms

Remote clock offset: 2.92 ms

Below is generated by plot.py at 2018-07-17 23:34:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 623.53 Mbit/s

95th percentile per-packet one-way delay: 22.004 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 412.24 Mbit/s

95th percentile per-packet one-way delay: 30.302 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 276.10 Mbit/s

95th percentile per-packet one-way delay: 20.324 ms

Loss rate: 0.27%

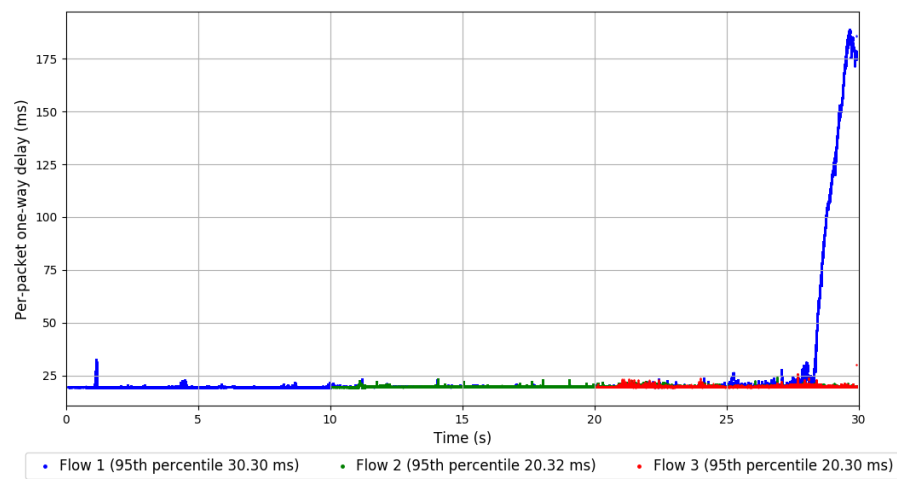
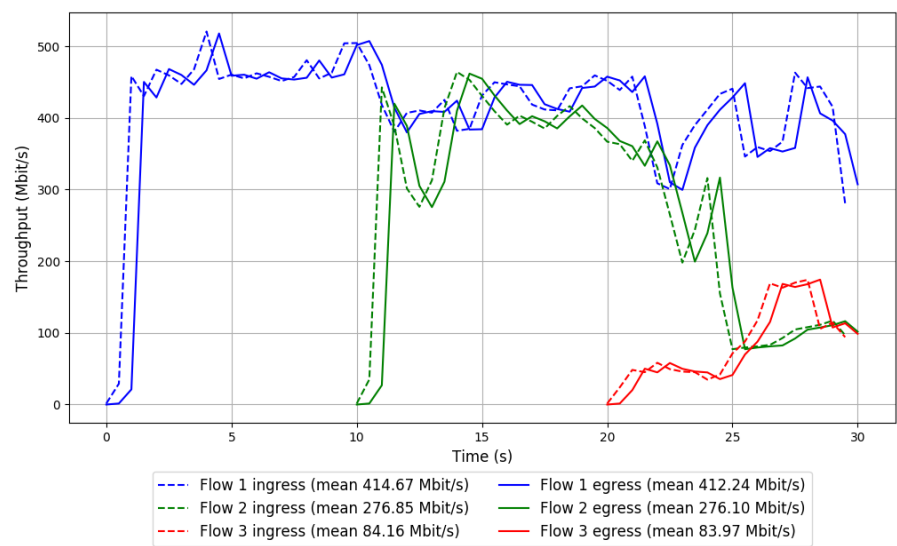
-- Flow 3:

Average throughput: 83.97 Mbit/s

95th percentile per-packet one-way delay: 20.297 ms

Loss rate: 0.14%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-07-17 18:44:10

End at: 2018-07-17 18:44:40

Local clock offset: 15.508 ms

Remote clock offset: 3.462 ms

Below is generated by plot.py at 2018-07-17 23:34:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 613.46 Mbit/s

95th percentile per-packet one-way delay: 20.116 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 380.89 Mbit/s

95th percentile per-packet one-way delay: 20.765 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 329.24 Mbit/s

95th percentile per-packet one-way delay: 19.404 ms

Loss rate: 0.28%

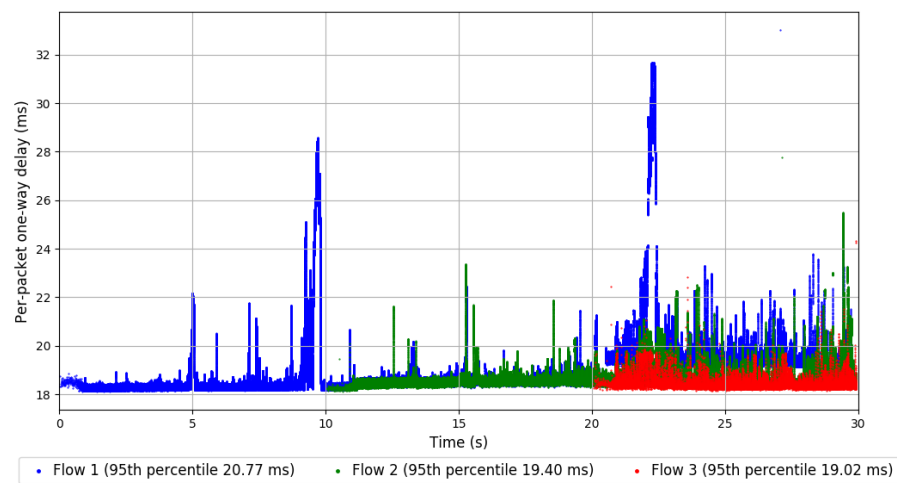
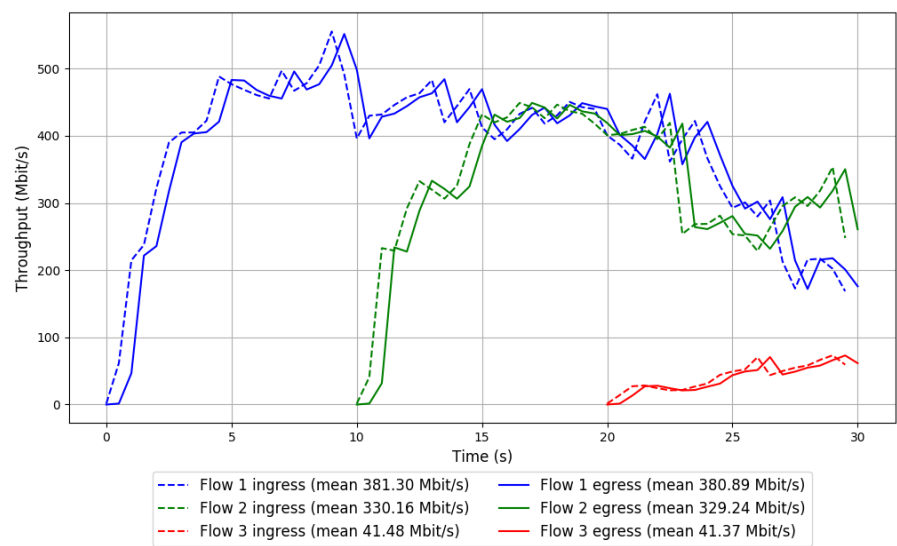
-- Flow 3:

Average throughput: 41.37 Mbit/s

95th percentile per-packet one-way delay: 19.015 ms

Loss rate: 0.21%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-07-17 19:11:13

End at: 2018-07-17 19:11:43

Local clock offset: 14.451 ms

Remote clock offset: 3.243 ms

Below is generated by plot.py at 2018-07-17 23:34:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 597.99 Mbit/s

95th percentile per-packet one-way delay: 22.118 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 392.58 Mbit/s

95th percentile per-packet one-way delay: 24.810 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 267.71 Mbit/s

95th percentile per-packet one-way delay: 19.903 ms

Loss rate: 0.09%

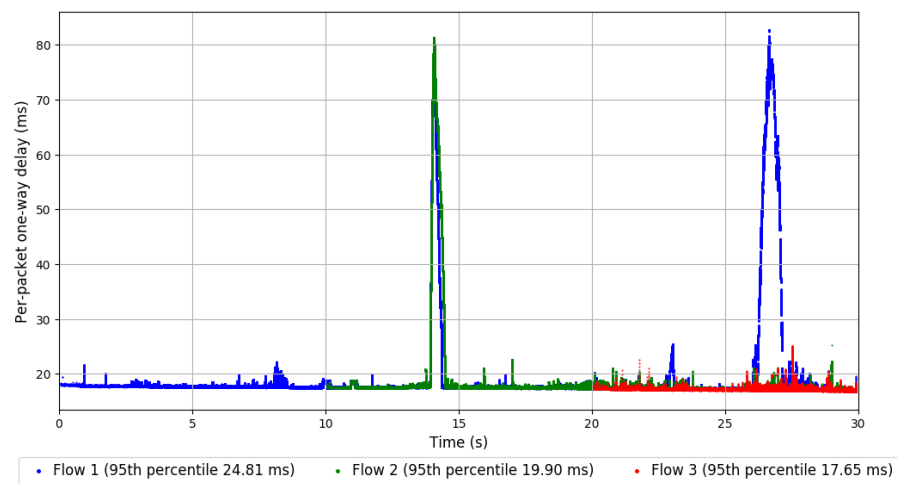
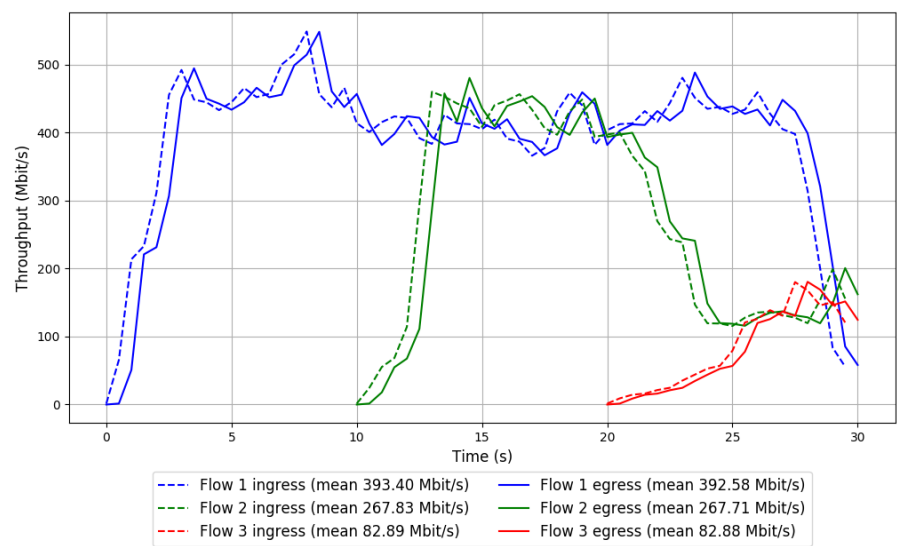
-- Flow 3:

Average throughput: 82.88 Mbit/s

95th percentile per-packet one-way delay: 17.647 ms

Loss rate: 0.01%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-07-17 19:38:11

End at: 2018-07-17 19:38:41

Local clock offset: -5.854 ms

Remote clock offset: 2.951 ms

Below is generated by plot.py at 2018-07-17 23:36:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 618.30 Mbit/s

95th percentile per-packet one-way delay: 21.280 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 340.68 Mbit/s

95th percentile per-packet one-way delay: 19.747 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 362.48 Mbit/s

95th percentile per-packet one-way delay: 22.937 ms

Loss rate: 0.35%

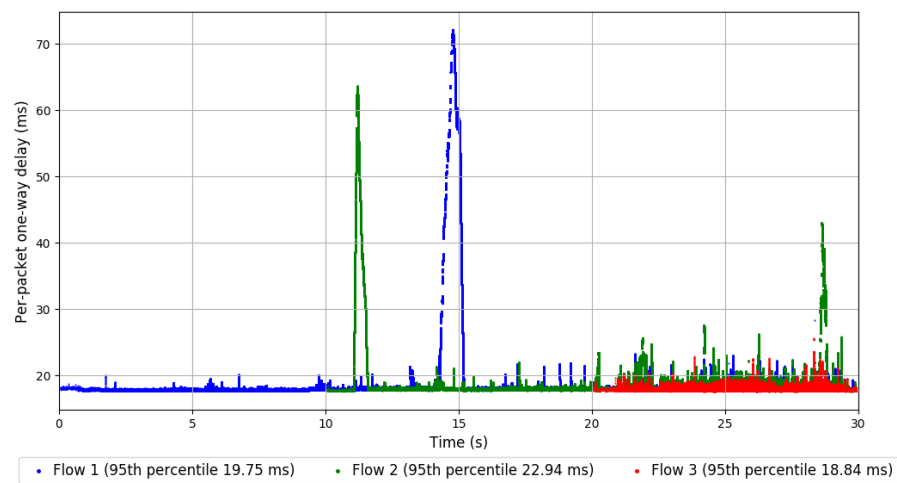
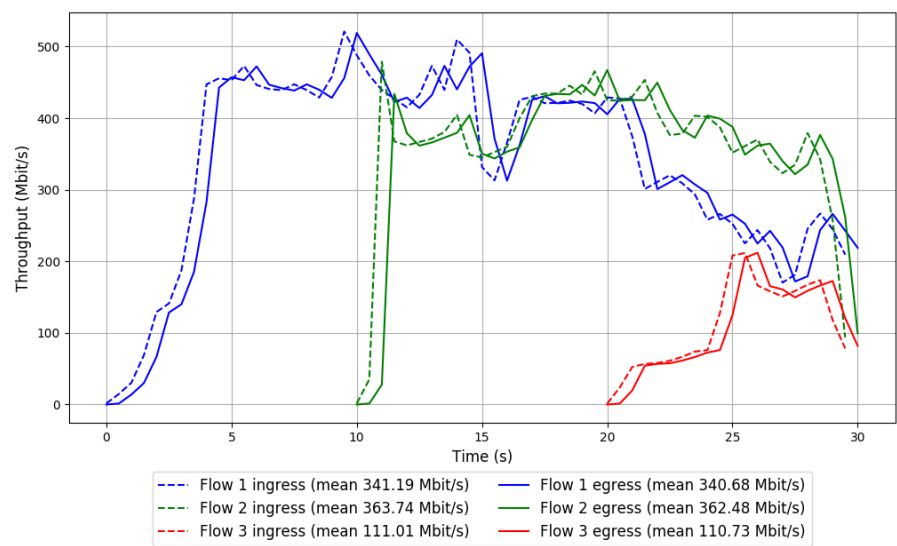
-- Flow 3:

Average throughput: 110.73 Mbit/s

95th percentile per-packet one-way delay: 18.845 ms

Loss rate: 0.26%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-07-17 20:05:30

End at: 2018-07-17 20:06:00

Local clock offset: -3.424 ms

Remote clock offset: 2.606 ms

Below is generated by plot.py at 2018-07-17 23:36:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 619.95 Mbit/s

95th percentile per-packet one-way delay: 20.431 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 377.69 Mbit/s

95th percentile per-packet one-way delay: 22.451 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 329.05 Mbit/s

95th percentile per-packet one-way delay: 20.285 ms

Loss rate: 0.38%

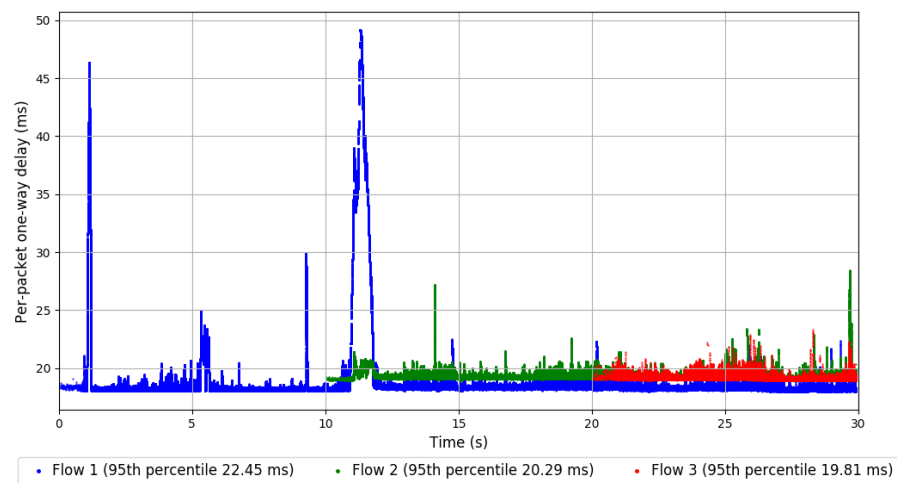
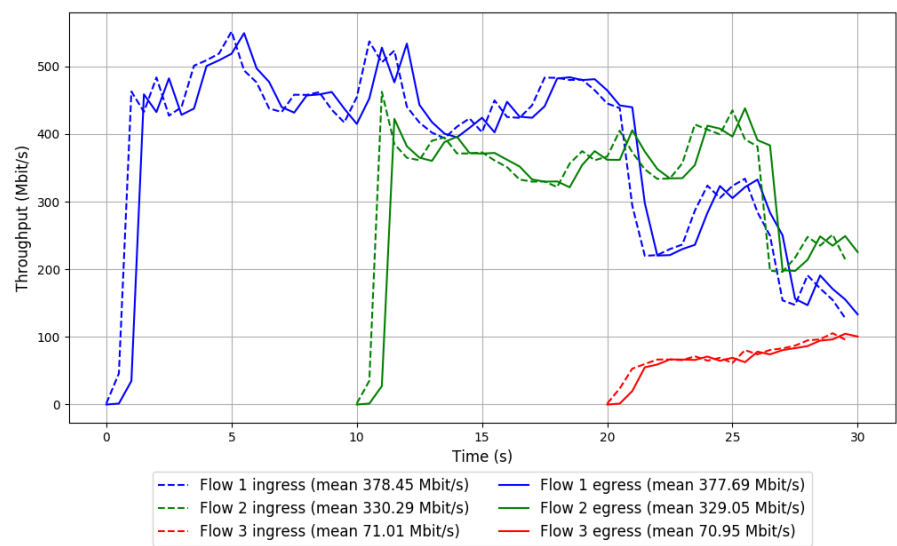
-- Flow 3:

Average throughput: 70.95 Mbit/s

95th percentile per-packet one-way delay: 19.811 ms

Loss rate: 0.09%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-07-17 20:32:53

End at: 2018-07-17 20:33:23

Local clock offset: -2.1 ms

Remote clock offset: 2.018 ms

Below is generated by plot.py at 2018-07-17 23:36:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 584.91 Mbit/s

95th percentile per-packet one-way delay: 20.645 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 326.02 Mbit/s

95th percentile per-packet one-way delay: 20.005 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 342.10 Mbit/s

95th percentile per-packet one-way delay: 24.800 ms

Loss rate: 0.48%

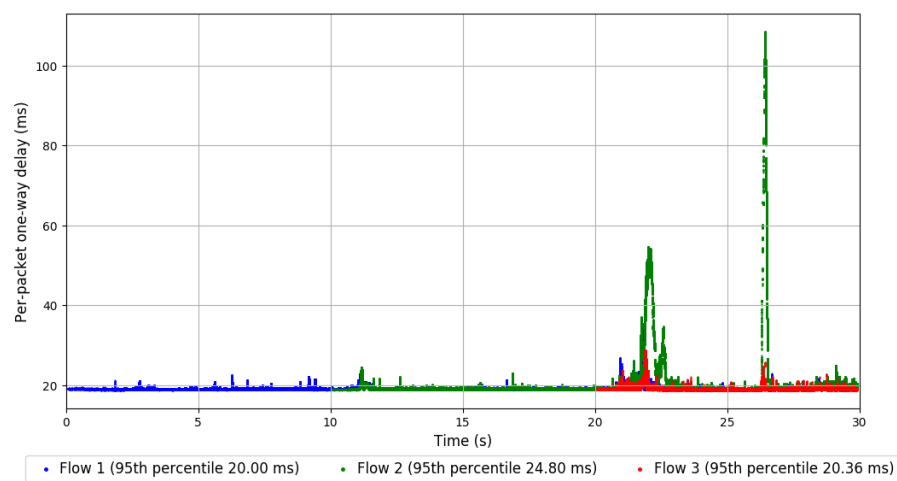
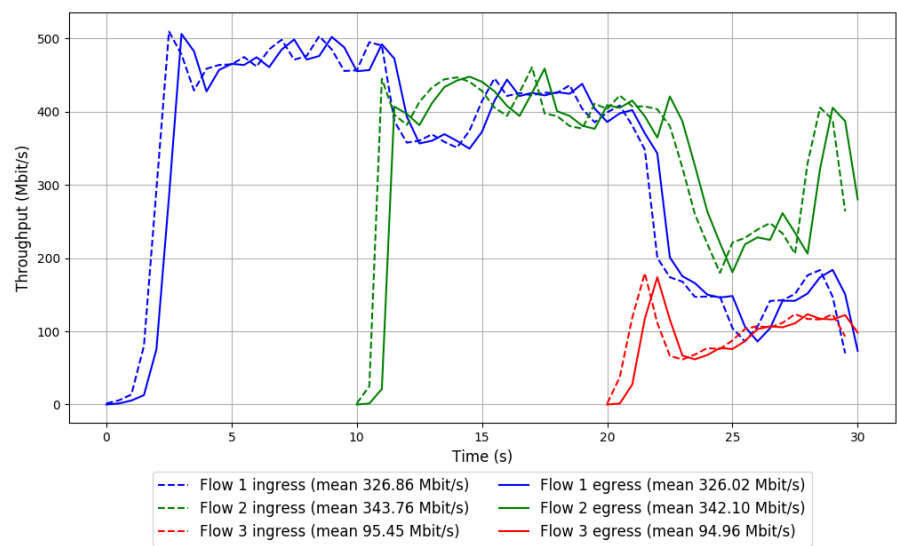
-- Flow 3:

Average throughput: 94.96 Mbit/s

95th percentile per-packet one-way delay: 20.359 ms

Loss rate: 0.51%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-07-17 20:59:54

End at: 2018-07-17 21:00:24

Local clock offset: -0.309 ms

Remote clock offset: 1.473 ms

Below is generated by plot.py at 2018-07-17 23:36:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 610.23 Mbit/s

95th percentile per-packet one-way delay: 37.103 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 342.81 Mbit/s

95th percentile per-packet one-way delay: 20.631 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 335.38 Mbit/s

95th percentile per-packet one-way delay: 152.929 ms

Loss rate: 0.60%

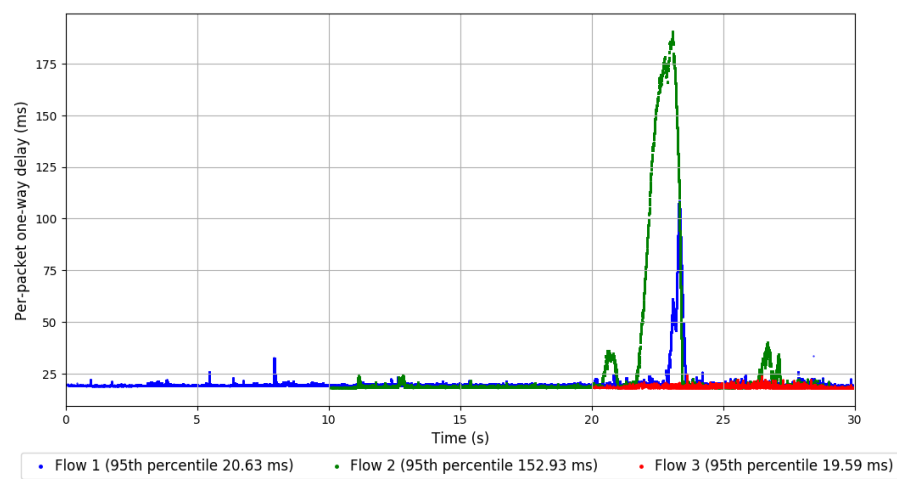
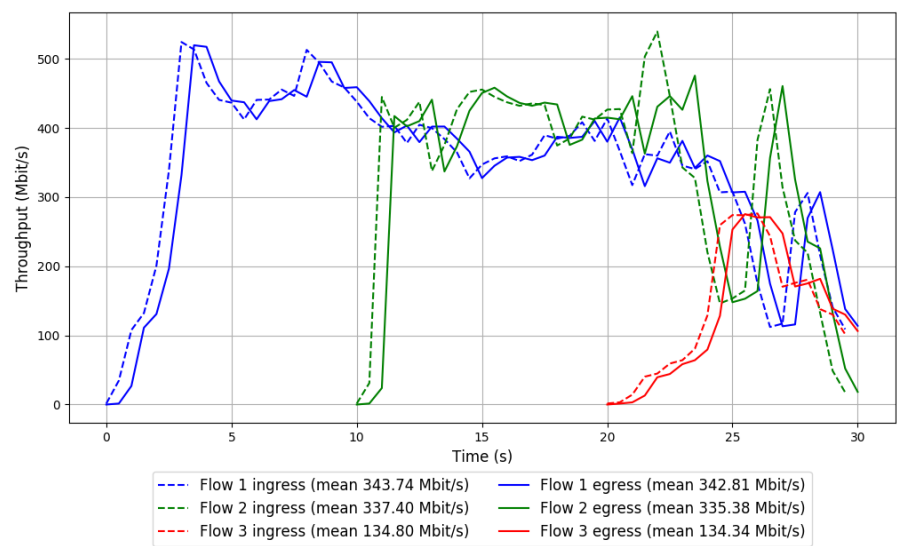
-- Flow 3:

Average throughput: 134.34 Mbit/s

95th percentile per-packet one-way delay: 19.586 ms

Loss rate: 0.35%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-07-17 16:48:40

End at: 2018-07-17 16:49:10

Local clock offset: -3.054 ms

Remote clock offset: 0.673 ms

Below is generated by plot.py at 2018-07-17 23:36:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.49 Mbit/s

95th percentile per-packet one-way delay: 21.024 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 2.44 Mbit/s

95th percentile per-packet one-way delay: 20.282 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 1.45 Mbit/s

95th percentile per-packet one-way delay: 21.751 ms

Loss rate: 0.00%

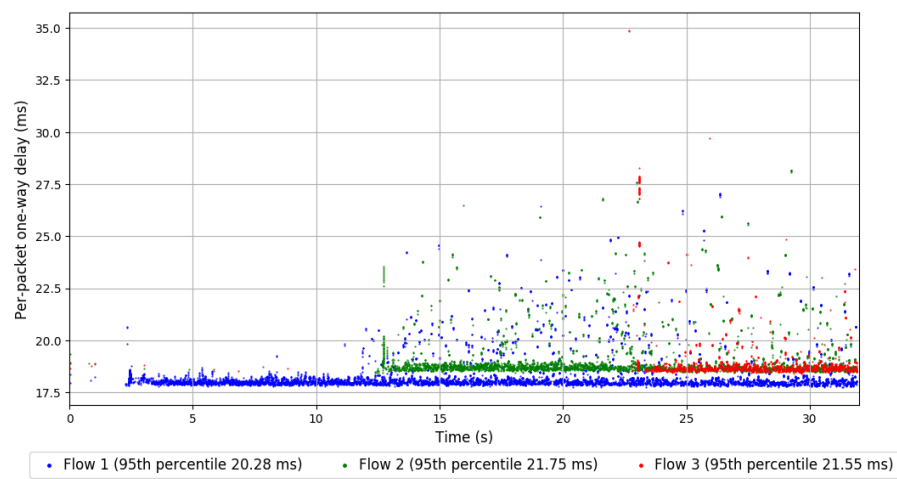
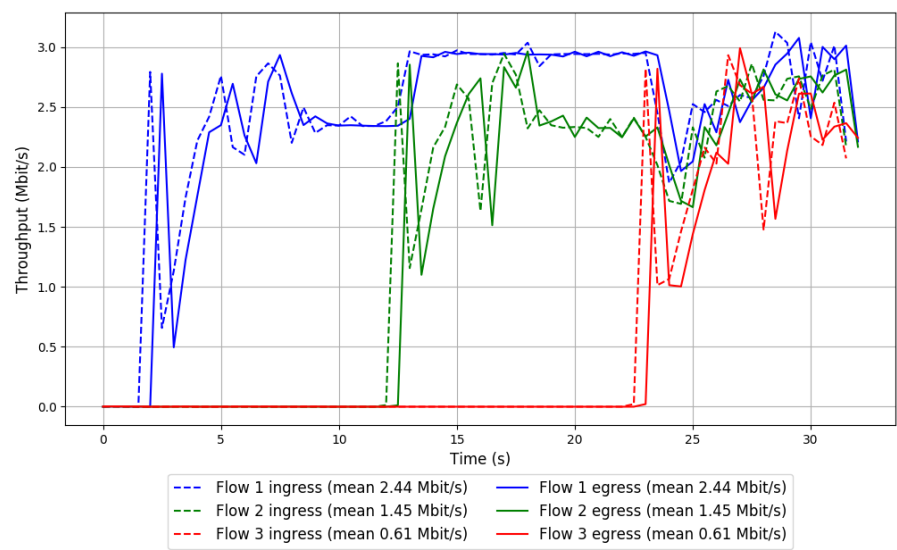
-- Flow 3:

Average throughput: 0.61 Mbit/s

95th percentile per-packet one-way delay: 21.545 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-07-17 17:15:59

End at: 2018-07-17 17:16:29

Local clock offset: -1.663 ms

Remote clock offset: 1.283 ms

Below is generated by plot.py at 2018-07-17 23:36:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.39 Mbit/s

95th percentile per-packet one-way delay: 20.284 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 19.554 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 1.64 Mbit/s

95th percentile per-packet one-way delay: 19.931 ms

Loss rate: 0.01%

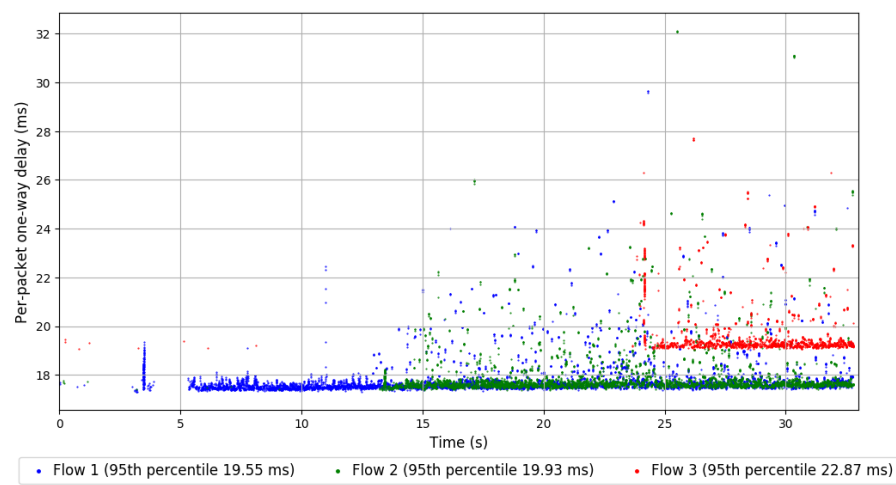
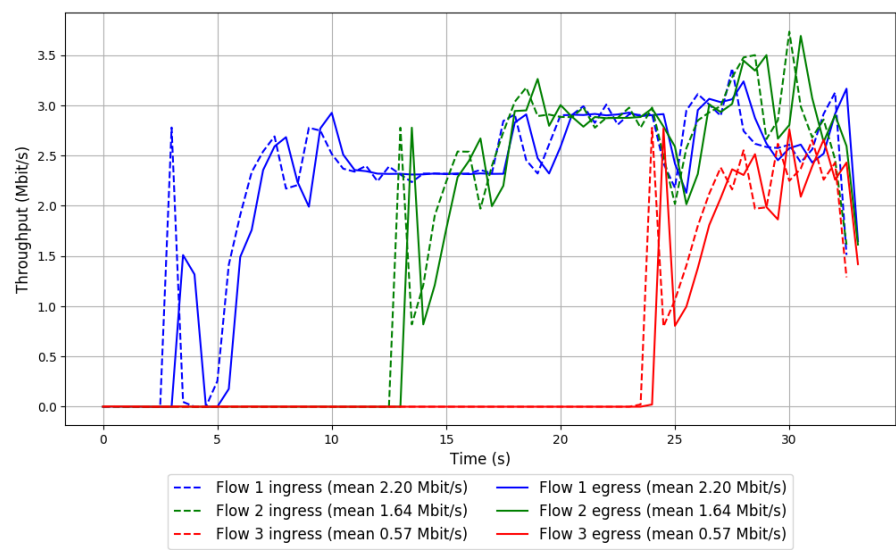
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 22.871 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-07-17 17:43:20

End at: 2018-07-17 17:43:50

Local clock offset: 0.874 ms

Remote clock offset: 2.05 ms

Below is generated by plot.py at 2018-07-17 23:36:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.69 Mbit/s

95th percentile per-packet one-way delay: 20.439 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 20.669 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 1.57 Mbit/s

95th percentile per-packet one-way delay: 19.954 ms

Loss rate: 0.21%

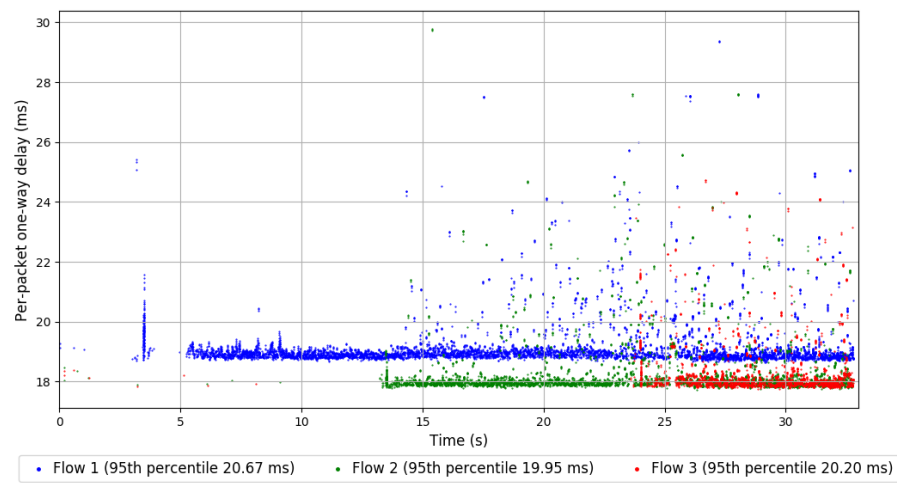
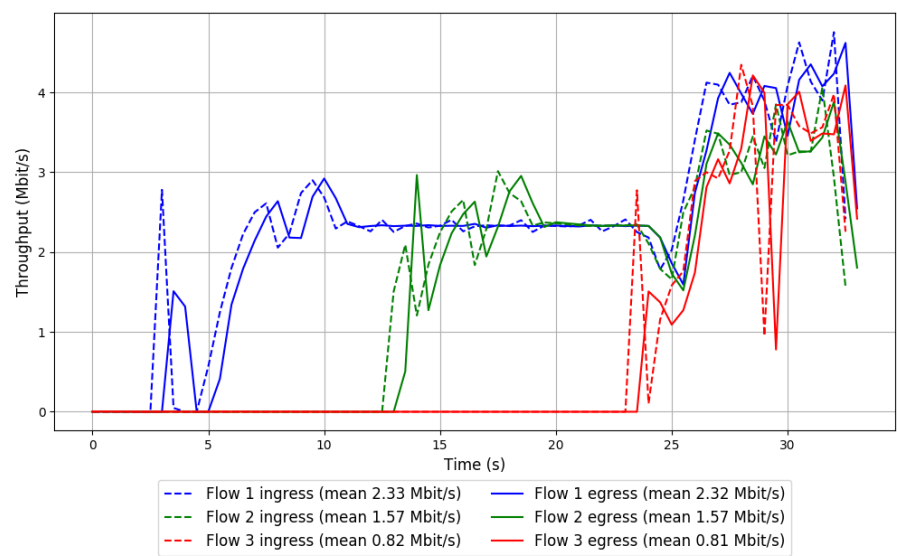
-- Flow 3:

Average throughput: 0.81 Mbit/s

95th percentile per-packet one-way delay: 20.201 ms

Loss rate: 0.58%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-07-17 18:10:34

End at: 2018-07-17 18:11:04

Local clock offset: 1.969 ms

Remote clock offset: 2.878 ms

Below is generated by plot.py at 2018-07-17 23:36:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.03 Mbit/s

95th percentile per-packet one-way delay: 21.494 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 21.395 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.45 Mbit/s

95th percentile per-packet one-way delay: 21.118 ms

Loss rate: 0.00%

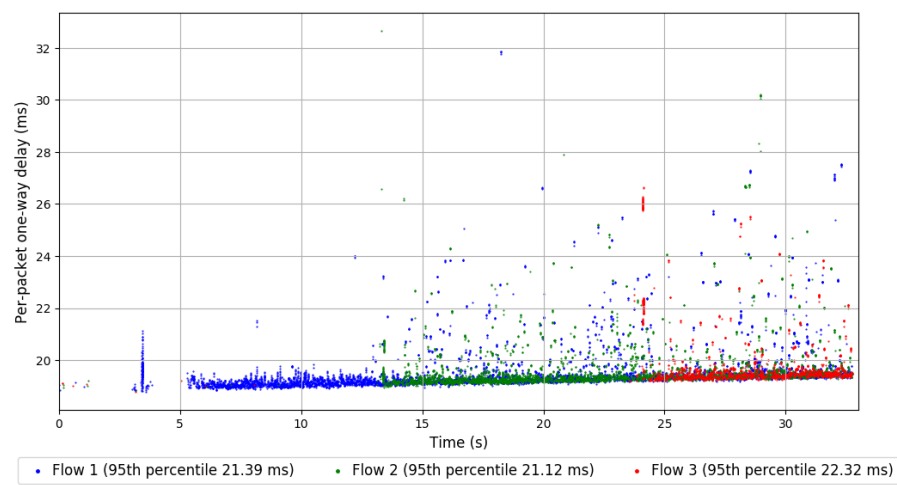
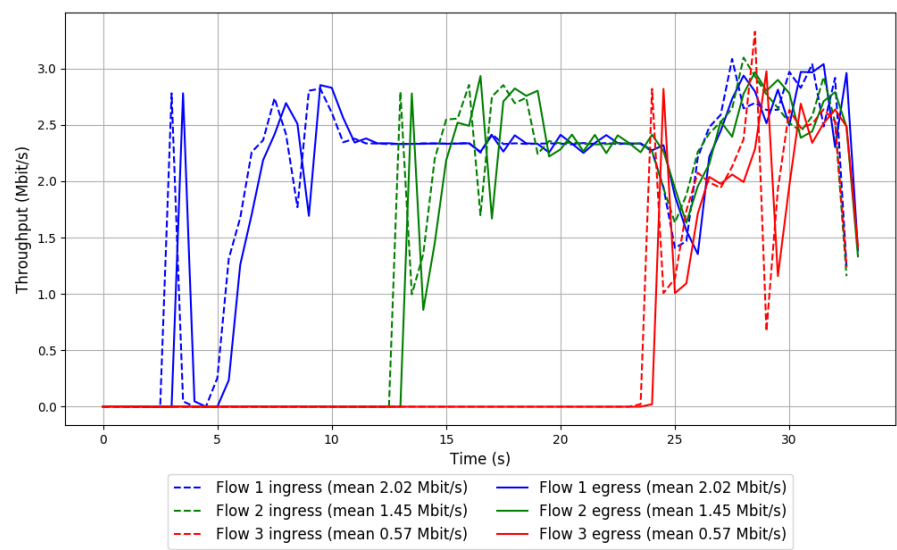
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 22.324 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-07-17 18:37:48

End at: 2018-07-17 18:38:18

Local clock offset: 14.351 ms

Remote clock offset: 3.369 ms

Below is generated by plot.py at 2018-07-17 23:36:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.00 Mbit/s

95th percentile per-packet one-way delay: 20.602 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 20.830 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.42 Mbit/s

95th percentile per-packet one-way delay: 20.442 ms

Loss rate: 0.00%

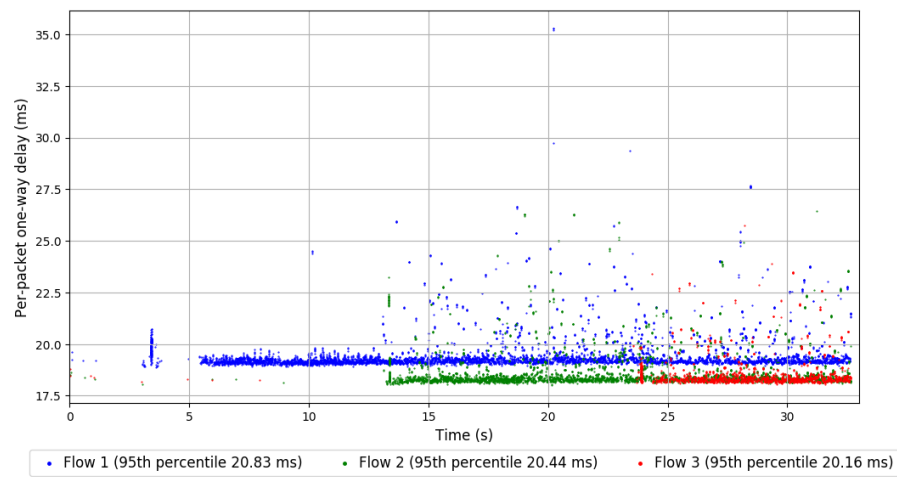
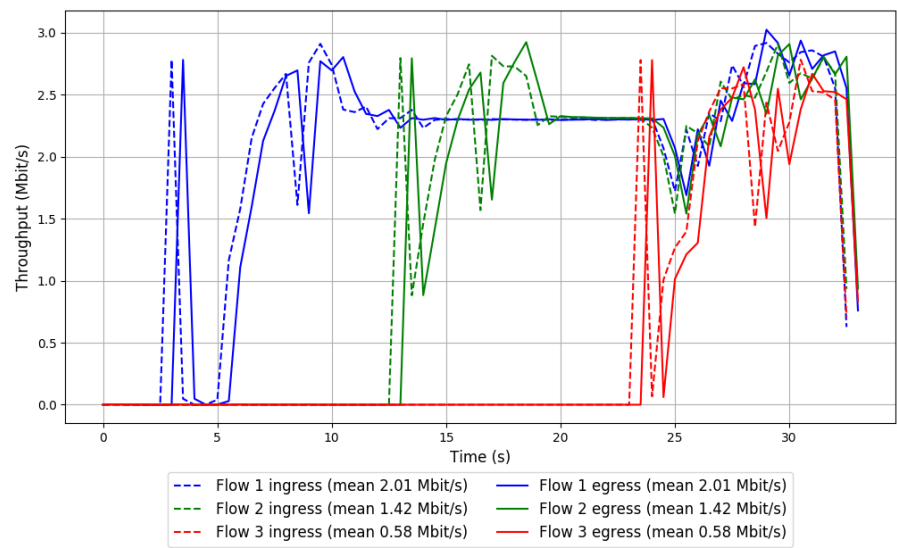
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 20.159 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-07-17 19:04:55

End at: 2018-07-17 19:05:25

Local clock offset: 18.236 ms

Remote clock offset: 3.282 ms

Below is generated by plot.py at 2018-07-17 23:36:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.98 Mbit/s

95th percentile per-packet one-way delay: 20.373 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 20.062 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 1.42 Mbit/s

95th percentile per-packet one-way delay: 20.373 ms

Loss rate: 0.00%

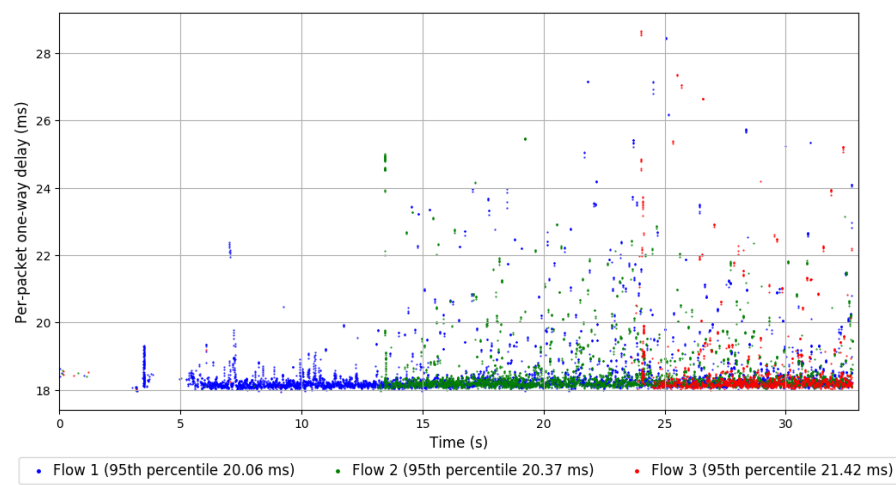
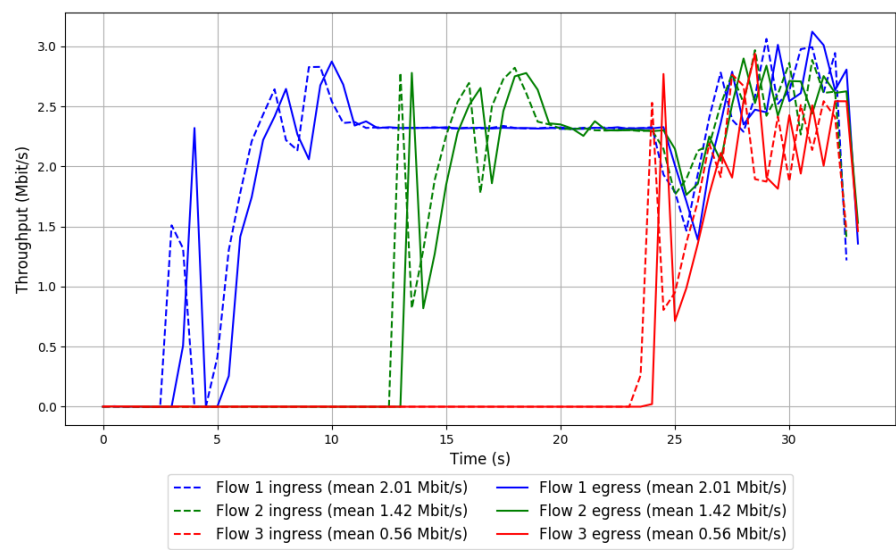
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 21.422 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-07-17 19:31:51

End at: 2018-07-17 19:32:21

Local clock offset: -3.807 ms

Remote clock offset: 3.045 ms

Below is generated by plot.py at 2018-07-17 23:36:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.00 Mbit/s

95th percentile per-packet one-way delay: 19.976 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 19.821 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 20.165 ms

Loss rate: 0.00%

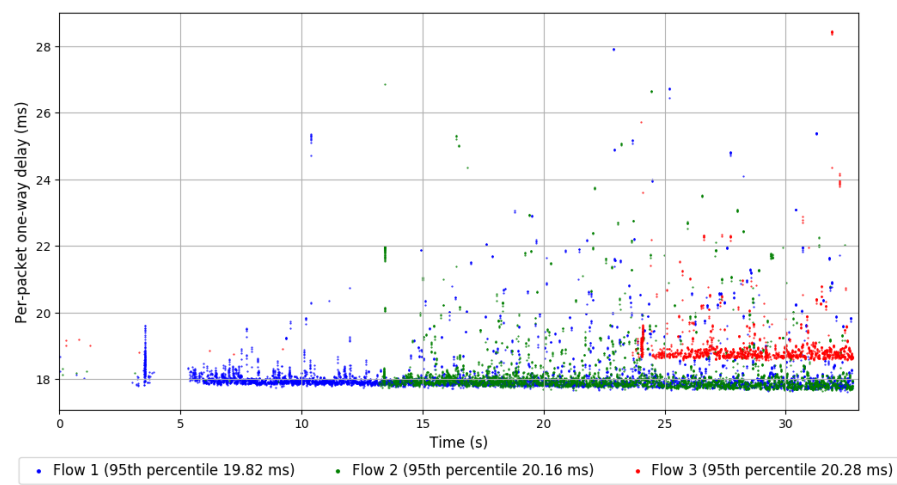
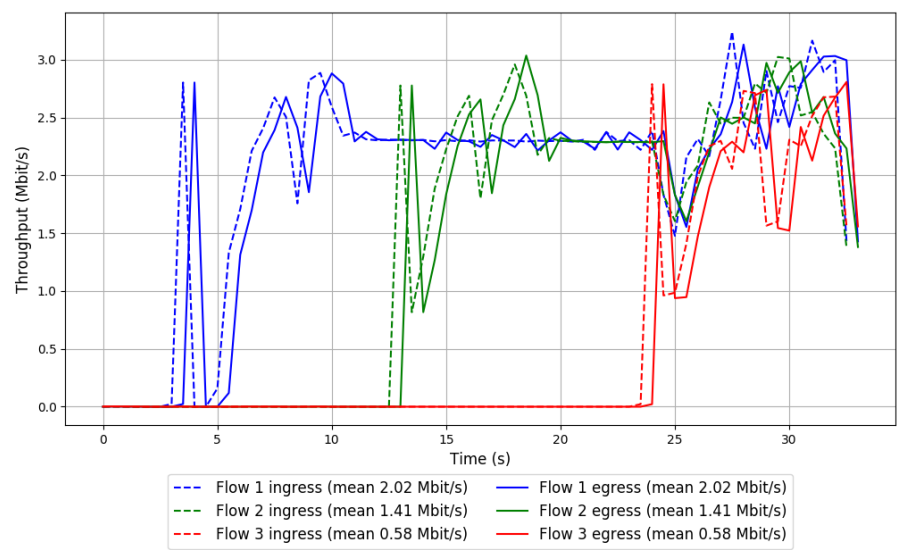
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 20.276 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-07-17 19:59:09

End at: 2018-07-17 19:59:39

Local clock offset: -2.685 ms

Remote clock offset: 2.62 ms

Below is generated by plot.py at 2018-07-17 23:36:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.00 Mbit/s

95th percentile per-packet one-way delay: 20.532 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 20.294 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.42 Mbit/s

95th percentile per-packet one-way delay: 20.933 ms

Loss rate: 0.00%

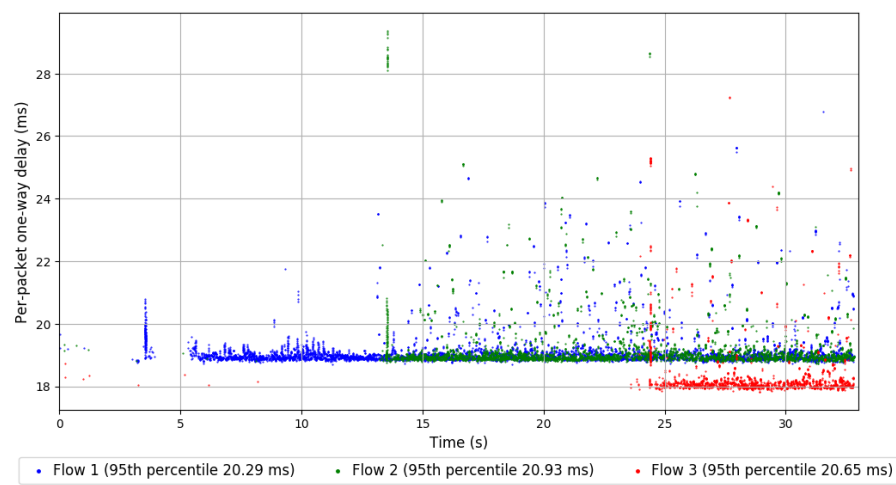
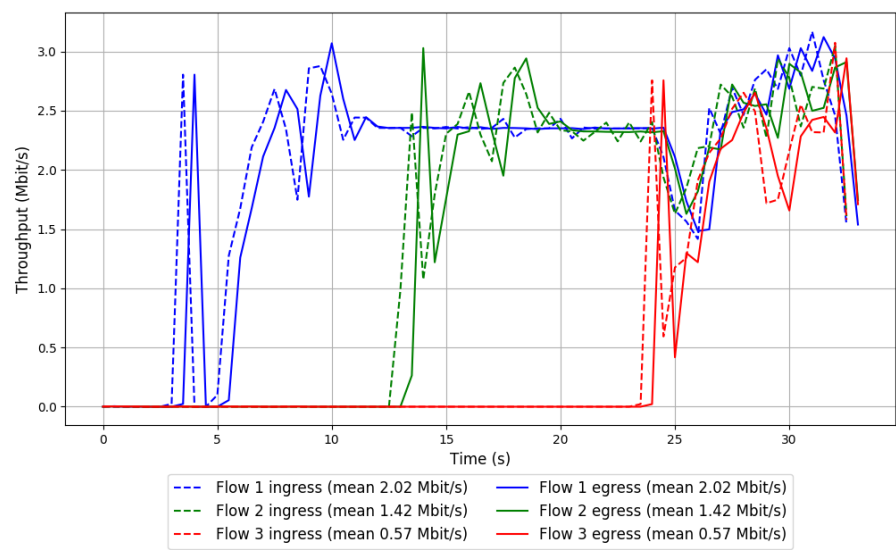
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 20.648 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-07-17 20:26:34

End at: 2018-07-17 20:27:04

Local clock offset: -1.927 ms

Remote clock offset: 2.177 ms

Below is generated by plot.py at 2018-07-17 23:36:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.01 Mbit/s

95th percentile per-packet one-way delay: 20.980 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 20.747 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 1.43 Mbit/s

95th percentile per-packet one-way delay: 21.012 ms

Loss rate: 0.00%

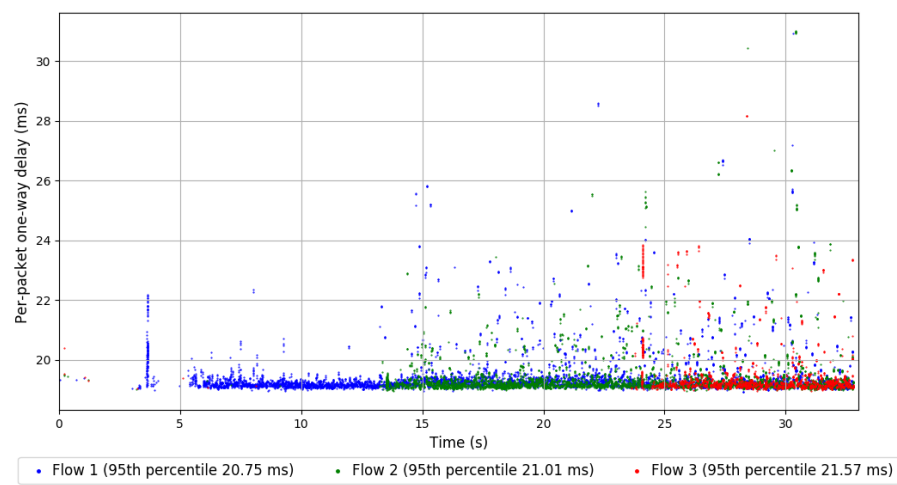
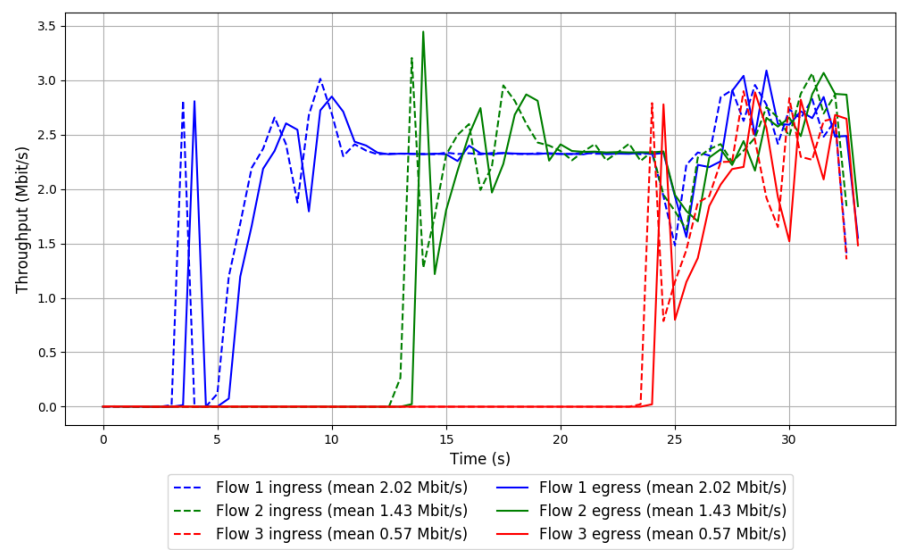
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 21.572 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-07-17 20:53:33

End at: 2018-07-17 20:54:03

Local clock offset: -0.512 ms

Remote clock offset: 1.495 ms

Below is generated by plot.py at 2018-07-17 23:36:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.01 Mbit/s

95th percentile per-packet one-way delay: 21.105 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 20.359 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.43 Mbit/s

95th percentile per-packet one-way delay: 21.376 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 22.565 ms

Loss rate: 0.16%

Run 10: Report of WebRTC media — Data Link

