

Pantheon Report

Generated at 2018-05-25 15:59:44 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

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

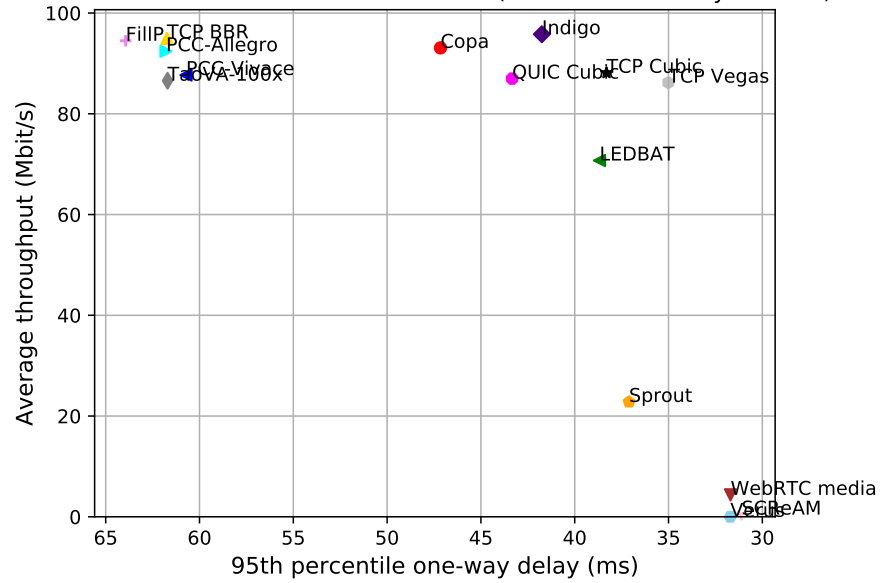
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

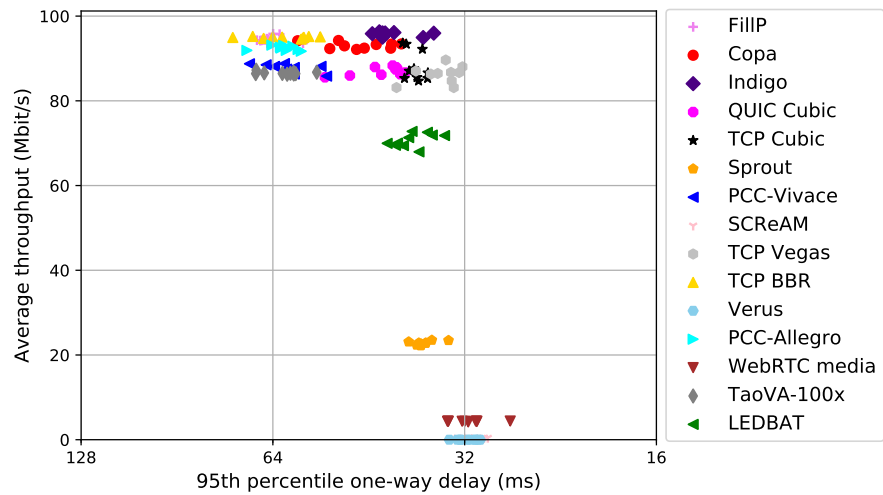
Git summary:

```
branch: master @ 0088822873ea99180f63545a341ef069f40efe59
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
third_party/sprout @ c838669682f0c19f6baf92afc9a596a406d48c1f
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from Mexico to AWS California 2, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from Mexico to AWS California 2, 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	58.77	38.17	32.63	55.94	67.47	66.43	2.04	3.55	3.18
Copa	10	57.69	36.93	32.62	45.48	46.01	48.18	0.55	0.29	0.71
TCP Cubic	10	52.36	39.55	28.52	38.49	36.49	38.17	0.14	0.27	0.68
FillP	10	56.95	39.69	33.74	61.73	59.50	58.28	1.63	3.58	4.14
Indigo	10	56.77	41.65	34.66	42.64	42.45	38.59	0.17	0.32	0.66
LEDBAT	10	42.69	31.28	21.81	37.98	39.33	38.23	0.18	0.30	0.81
PCC-Allegro	10	57.57	38.33	28.53	59.78	58.11	60.99	5.62	3.10	1.86
PCC-Expr	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
QUIC Cubic	10	51.04	39.90	28.61	40.20	47.60	64.87	0.15	0.34	0.88
SCReAM	10	0.22	0.22	0.22	28.23	28.83	28.58	0.13	0.31	0.71
Sprout	10	11.49	11.48	11.20	37.00	36.64	36.89	0.16	0.37	0.70
TaoVA-100x	10	49.85	39.50	31.47	58.97	59.20	59.47	0.77	1.57	3.47
TCP Vegas	10	49.82	37.23	34.99	34.19	32.89	35.88	0.12	0.28	0.65
Verus	10	0.00	0.00	0.00	30.32	29.45	29.91	0.00	0.00	0.00
PCC-Vivace	10	56.30	32.54	29.70	54.42	63.20	56.92	1.39	1.77	1.22
WebRTC media	10	2.29	1.47	0.61	30.30	30.37	29.81	0.23	0.40	0.54

Run 1: Statistics of TCP BBR

Start at: 2018-05-25 12:15:50

End at: 2018-05-25 12:16:20

Local clock offset: 0.302 ms

Remote clock offset: 1.051 ms

Below is generated by plot.py at 2018-05-25 15:42:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.98 Mbit/s

95th percentile per-packet one-way delay: 57.229 ms

Loss rate: 2.47%

-- Flow 1:

Average throughput: 63.06 Mbit/s

95th percentile per-packet one-way delay: 54.814 ms

Loss rate: 2.29%

-- Flow 2:

Average throughput: 36.00 Mbit/s

95th percentile per-packet one-way delay: 76.537 ms

Loss rate: 2.97%

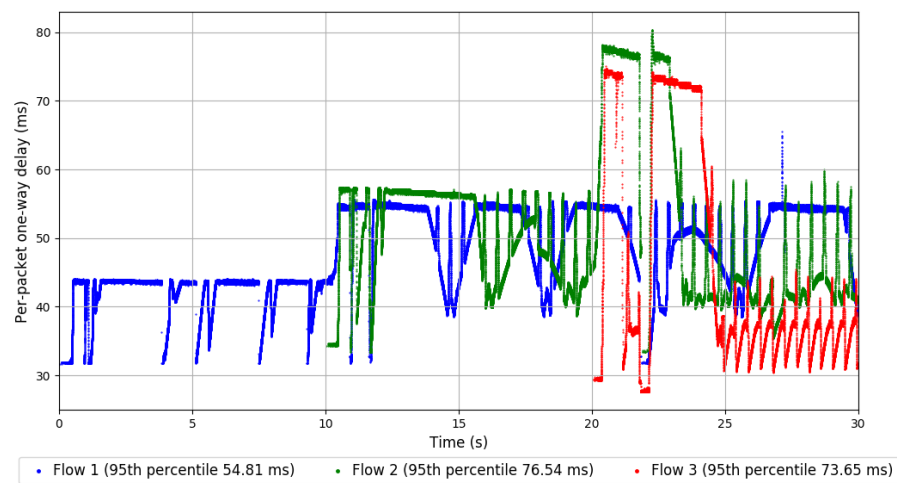
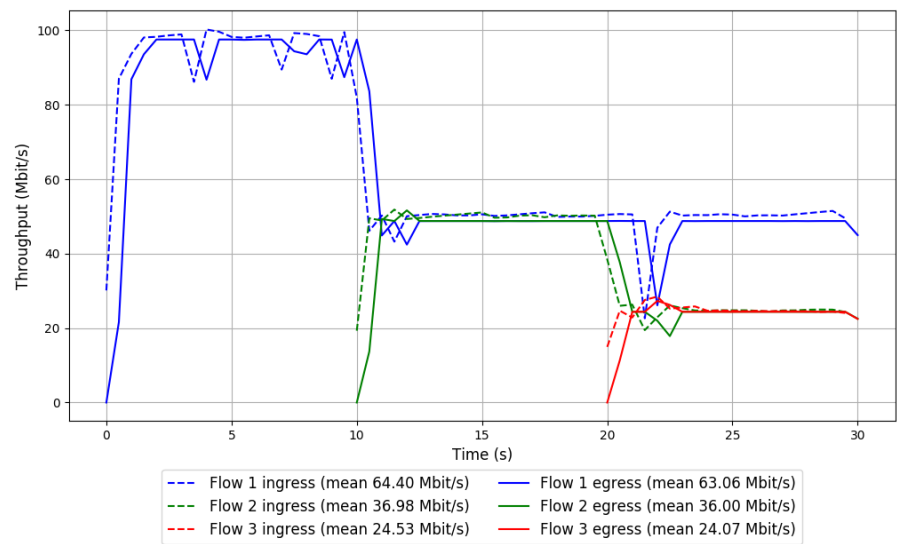
-- Flow 3:

Average throughput: 24.07 Mbit/s

95th percentile per-packet one-way delay: 73.654 ms

Loss rate: 2.44%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-05-25 12:37:09

End at: 2018-05-25 12:37:39

Local clock offset: 0.169 ms

Remote clock offset: 4.12 ms

Below is generated by plot.py at 2018-05-25 15:42:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.10 Mbit/s

95th percentile per-packet one-way delay: 64.044 ms

Loss rate: 2.19%

-- Flow 1:

Average throughput: 57.80 Mbit/s

95th percentile per-packet one-way delay: 61.512 ms

Loss rate: 1.63%

-- Flow 2:

Average throughput: 40.23 Mbit/s

95th percentile per-packet one-way delay: 49.223 ms

Loss rate: 3.00%

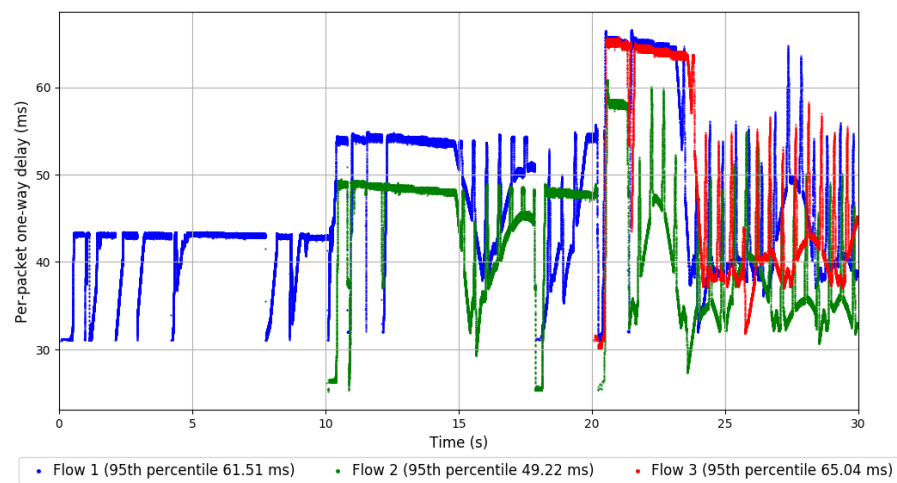
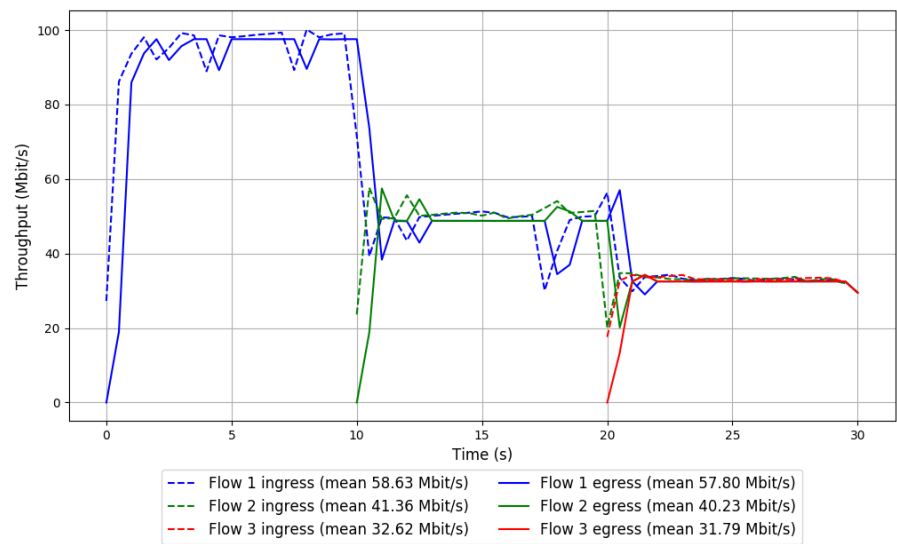
-- Flow 3:

Average throughput: 31.79 Mbit/s

95th percentile per-packet one-way delay: 65.043 ms

Loss rate: 3.14%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-05-25 12:58:28

End at: 2018-05-25 12:58:58

Local clock offset: 0.192 ms

Remote clock offset: 3.459 ms

Below is generated by plot.py at 2018-05-25 15:43:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.20 Mbit/s

95th percentile per-packet one-way delay: 68.827 ms

Loss rate: 2.62%

-- Flow 1:

Average throughput: 63.16 Mbit/s

95th percentile per-packet one-way delay: 53.891 ms

Loss rate: 2.17%

-- Flow 2:

Average throughput: 36.20 Mbit/s

95th percentile per-packet one-way delay: 74.794 ms

Loss rate: 3.48%

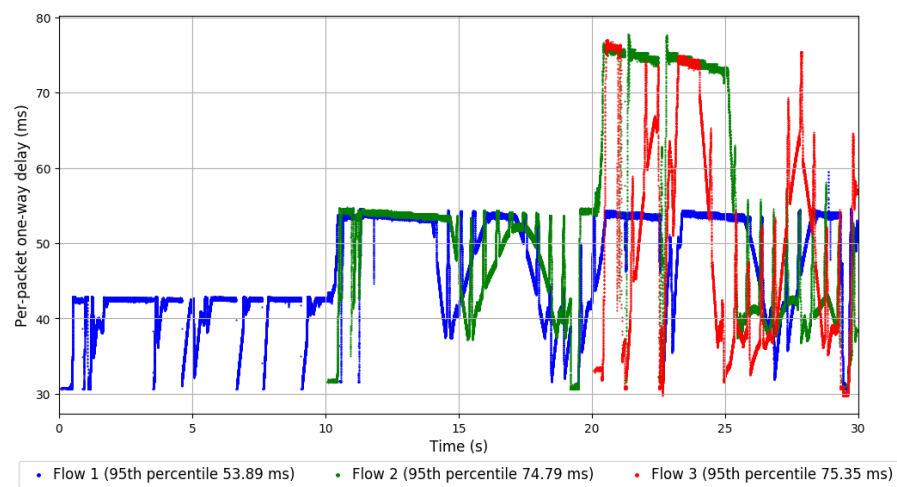
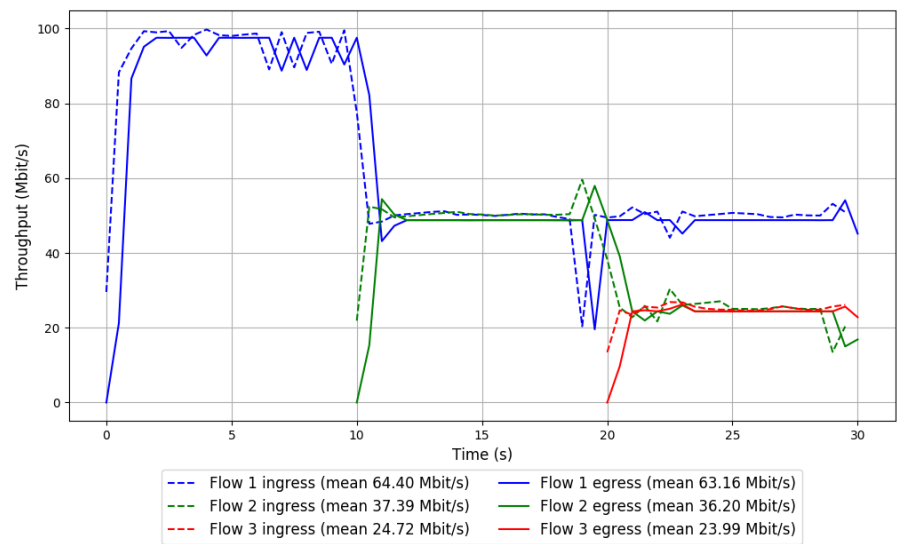
-- Flow 3:

Average throughput: 23.99 Mbit/s

95th percentile per-packet one-way delay: 75.351 ms

Loss rate: 3.55%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-05-25 13:19:50

End at: 2018-05-25 13:20:20

Local clock offset: 0.399 ms

Remote clock offset: 1.284 ms

Below is generated by plot.py at 2018-05-25 15:43:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.95 Mbit/s

95th percentile per-packet one-way delay: 73.970 ms

Loss rate: 2.93%

-- Flow 1:

Average throughput: 54.95 Mbit/s

95th percentile per-packet one-way delay: 56.399 ms

Loss rate: 2.16%

-- Flow 2:

Average throughput: 36.14 Mbit/s

95th percentile per-packet one-way delay: 76.681 ms

Loss rate: 4.61%

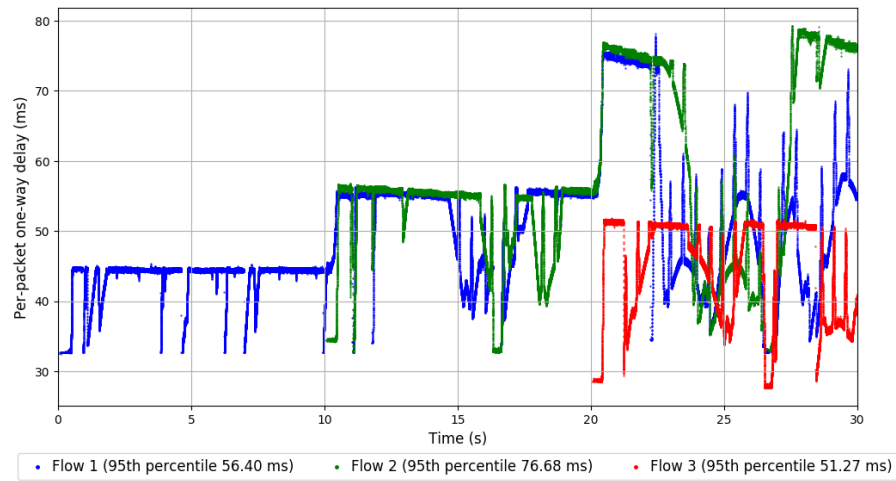
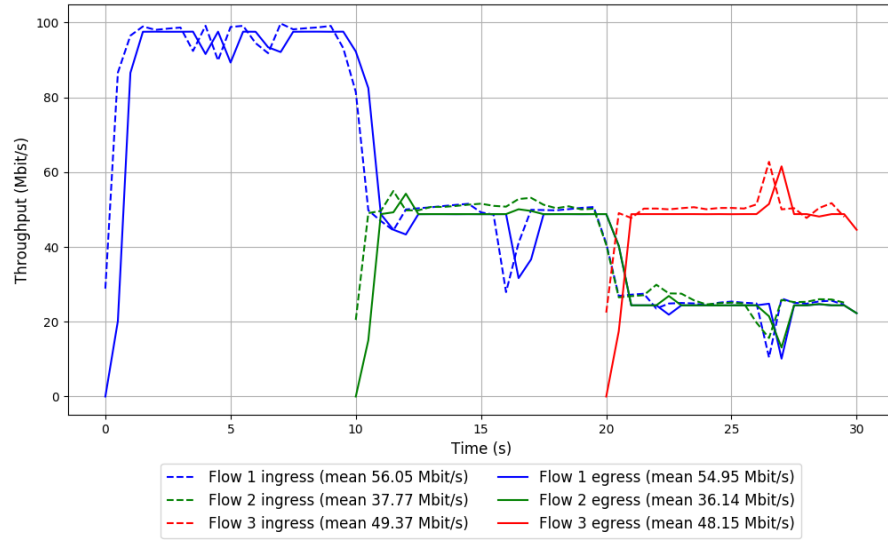
-- Flow 3:

Average throughput: 48.15 Mbit/s

95th percentile per-packet one-way delay: 51.273 ms

Loss rate: 3.01%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-05-25 13:41:10

End at: 2018-05-25 13:41:40

Local clock offset: 0.551 ms

Remote clock offset: 1.441 ms

Below is generated by plot.py at 2018-05-25 15:43:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.91 Mbit/s

95th percentile per-packet one-way delay: 57.337 ms

Loss rate: 2.54%

-- Flow 1:

Average throughput: 54.95 Mbit/s

95th percentile per-packet one-way delay: 56.956 ms

Loss rate: 1.88%

-- Flow 2:

Average throughput: 48.20 Mbit/s

95th percentile per-packet one-way delay: 56.850 ms

Loss rate: 3.45%

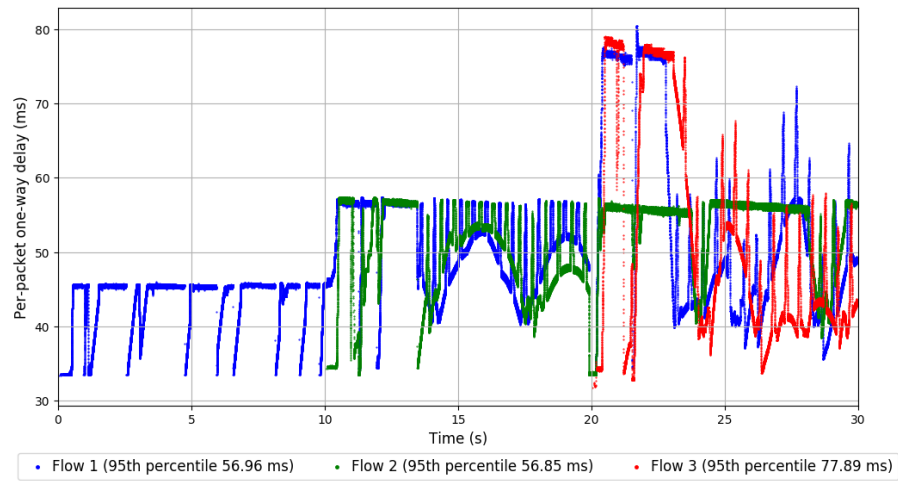
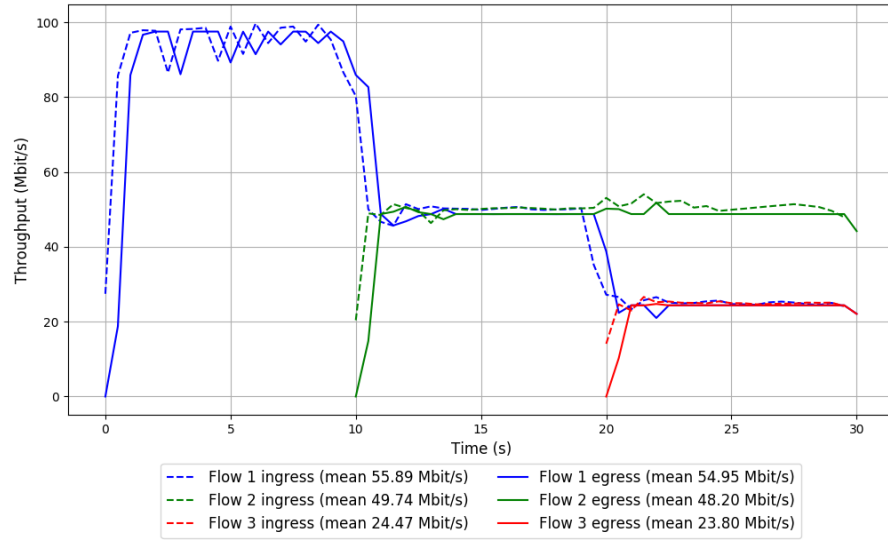
-- Flow 3:

Average throughput: 23.80 Mbit/s

95th percentile per-packet one-way delay: 77.894 ms

Loss rate: 3.34%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-05-25 14:02:26

End at: 2018-05-25 14:02:56

Local clock offset: 0.349 ms

Remote clock offset: 3.047 ms

Below is generated by plot.py at 2018-05-25 15:43:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.18 Mbit/s

95th percentile per-packet one-way delay: 56.208 ms

Loss rate: 2.59%

-- Flow 1:

Average throughput: 63.27 Mbit/s

95th percentile per-packet one-way delay: 48.804 ms

Loss rate: 2.14%

-- Flow 2:

Average throughput: 36.07 Mbit/s

95th percentile per-packet one-way delay: 72.301 ms

Loss rate: 3.52%

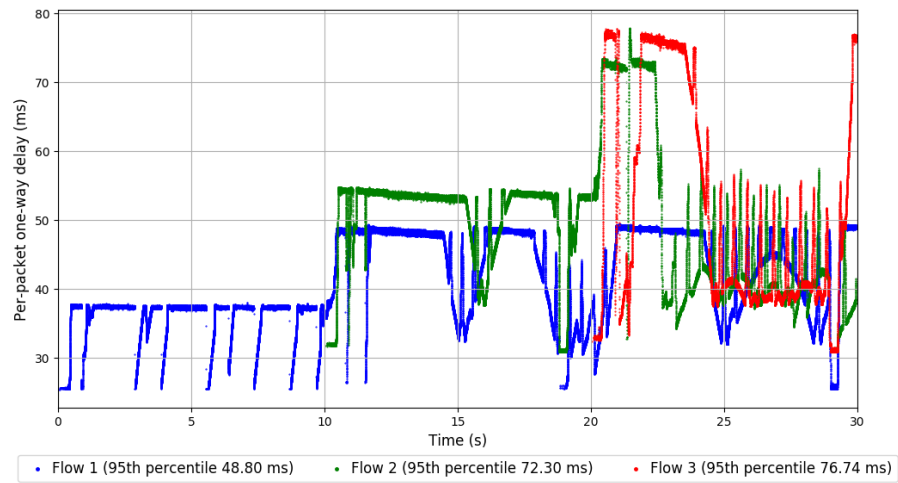
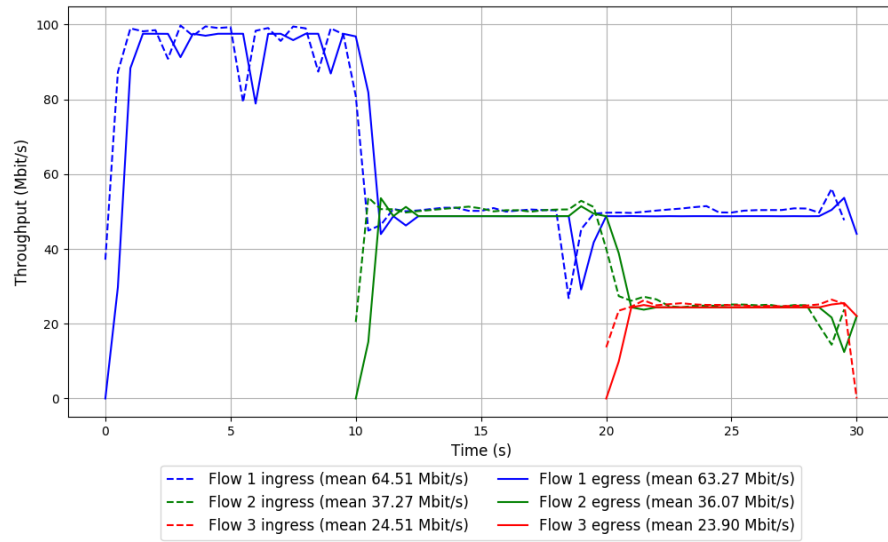
-- Flow 3:

Average throughput: 23.90 Mbit/s

95th percentile per-packet one-way delay: 76.741 ms

Loss rate: 3.28%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-05-25 14:23:41

End at: 2018-05-25 14:24:11

Local clock offset: 0.209 ms

Remote clock offset: 3.007 ms

Below is generated by plot.py at 2018-05-25 15:43:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.03 Mbit/s

95th percentile per-packet one-way delay: 61.883 ms

Loss rate: 2.78%

-- Flow 1:

Average throughput: 55.01 Mbit/s

95th percentile per-packet one-way delay: 55.986 ms

Loss rate: 2.17%

-- Flow 2:

Average throughput: 36.54 Mbit/s

95th percentile per-packet one-way delay: 67.055 ms

Loss rate: 3.63%

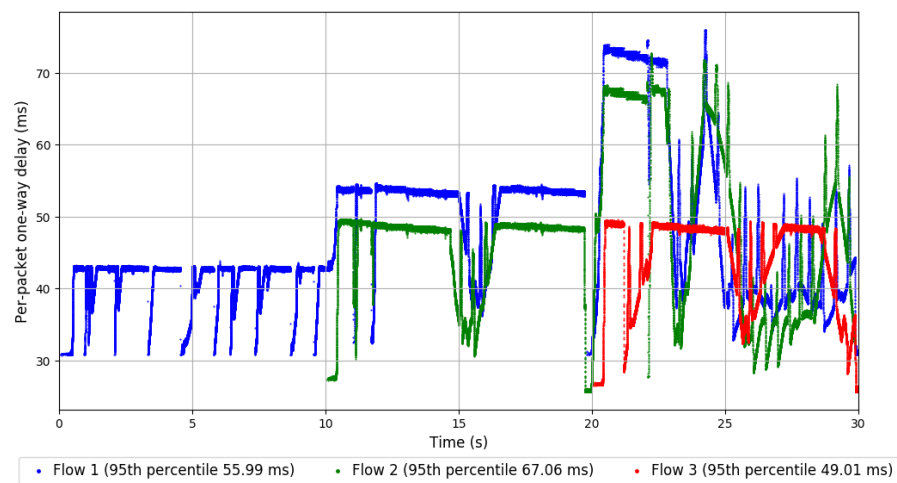
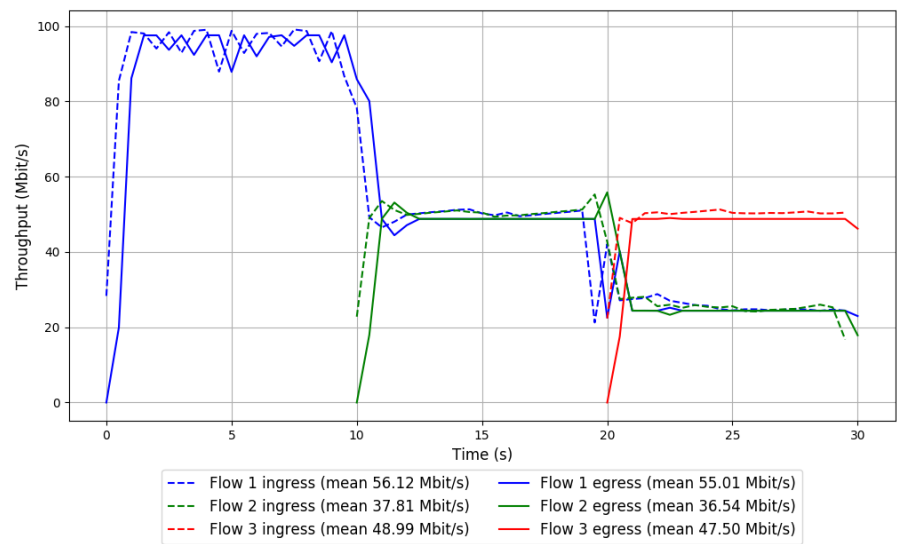
-- Flow 3:

Average throughput: 47.50 Mbit/s

95th percentile per-packet one-way delay: 49.005 ms

Loss rate: 3.58%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-05-25 14:44:58

End at: 2018-05-25 14:45:28

Local clock offset: 0.109 ms

Remote clock offset: 0.943 ms

Below is generated by plot.py at 2018-05-25 15:43:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.57 Mbit/s

95th percentile per-packet one-way delay: 57.762 ms

Loss rate: 2.49%

-- Flow 1:

Average throughput: 62.82 Mbit/s

95th percentile per-packet one-way delay: 56.758 ms

Loss rate: 2.03%

-- Flow 2:

Average throughput: 35.78 Mbit/s

95th percentile per-packet one-way delay: 74.116 ms

Loss rate: 3.56%

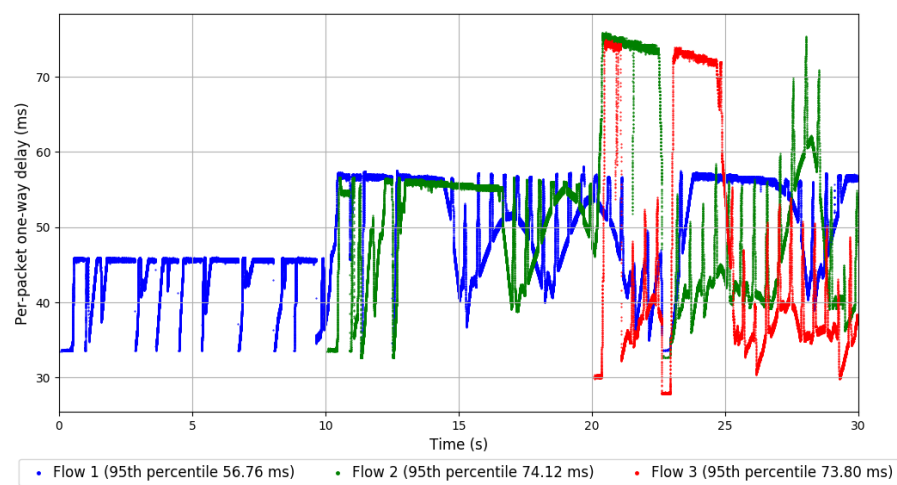
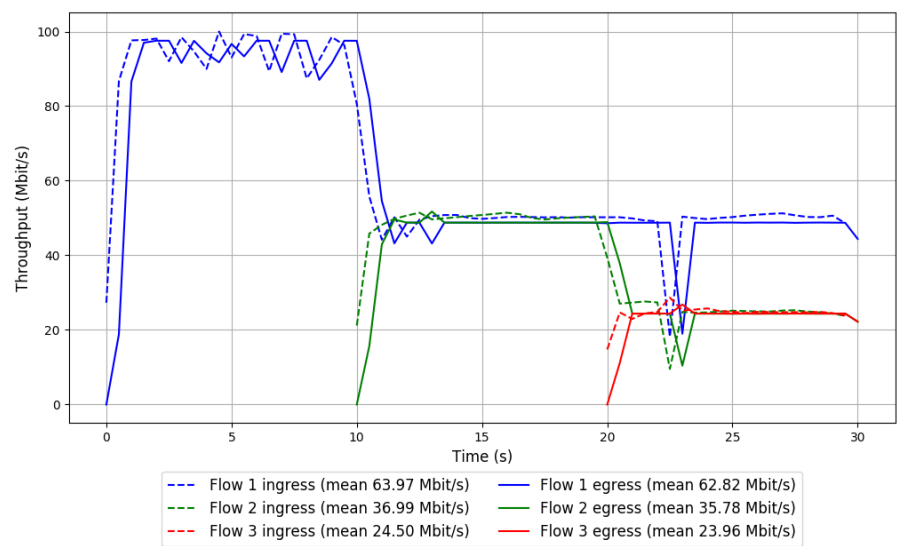
-- Flow 3:

Average throughput: 23.96 Mbit/s

95th percentile per-packet one-way delay: 73.796 ms

Loss rate: 2.80%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-05-25 15:06:15

End at: 2018-05-25 15:06:45

Local clock offset: 0.48 ms

Remote clock offset: 2.589 ms

Below is generated by plot.py at 2018-05-25 15:43:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.10 Mbit/s

95th percentile per-packet one-way delay: 53.925 ms

Loss rate: 2.66%

-- Flow 1:

Average throughput: 55.06 Mbit/s

95th percentile per-packet one-way delay: 49.188 ms

Loss rate: 2.02%

-- Flow 2:

Average throughput: 36.56 Mbit/s

95th percentile per-packet one-way delay: 67.045 ms

Loss rate: 3.52%

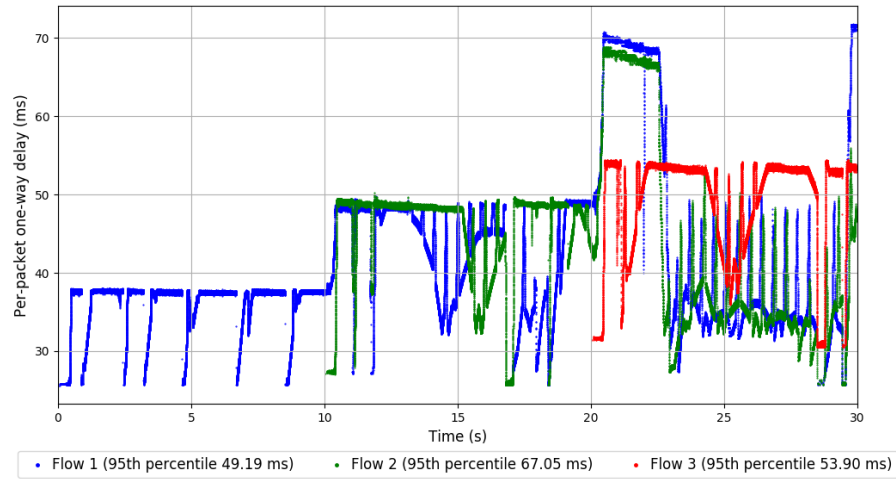
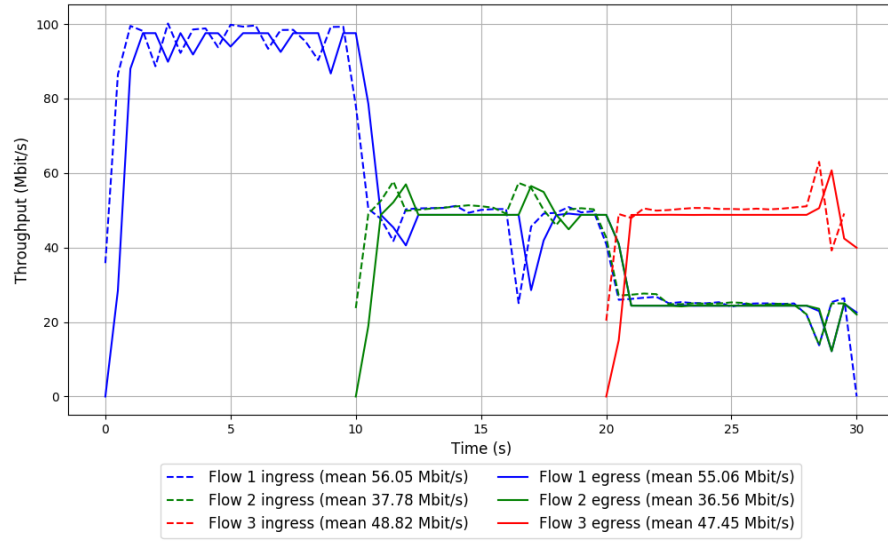
-- Flow 3:

Average throughput: 47.45 Mbit/s

95th percentile per-packet one-way delay: 53.897 ms

Loss rate: 3.51%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-05-25 15:27:37

End at: 2018-05-25 15:28:07

Local clock offset: 0.388 ms

Remote clock offset: 0.366 ms

Below is generated by plot.py at 2018-05-25 15:43:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.74 Mbit/s

95th percentile per-packet one-way delay: 66.176 ms

Loss rate: 2.57%

-- Flow 1:

Average throughput: 57.66 Mbit/s

95th percentile per-packet one-way delay: 65.103 ms

Loss rate: 1.91%

-- Flow 2:

Average throughput: 39.96 Mbit/s

95th percentile per-packet one-way delay: 60.087 ms

Loss rate: 3.77%

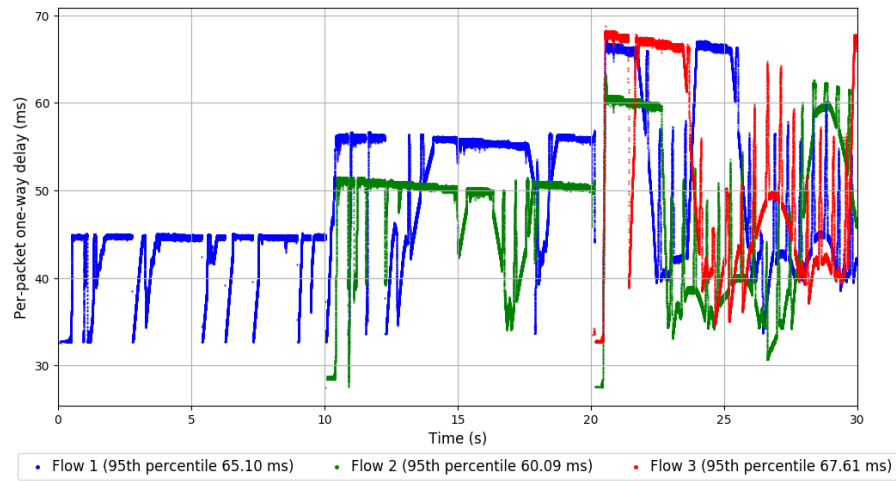
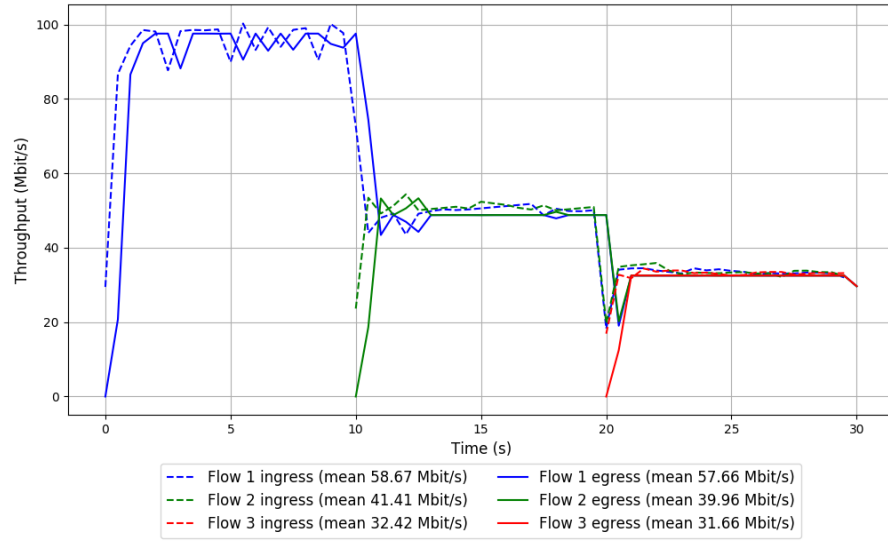
-- Flow 3:

Average throughput: 31.66 Mbit/s

95th percentile per-packet one-way delay: 67.614 ms

Loss rate: 3.11%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-05-25 12:19:56

End at: 2018-05-25 12:20:26

Local clock offset: 0.287 ms

Remote clock offset: 3.692 ms

Below is generated by plot.py at 2018-05-25 15:44:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.24 Mbit/s

95th percentile per-packet one-way delay: 50.481 ms

Loss rate: 1.29%

-- Flow 1:

Average throughput: 61.92 Mbit/s

95th percentile per-packet one-way delay: 50.801 ms

Loss rate: 1.73%

-- Flow 2:

Average throughput: 33.06 Mbit/s

95th percentile per-packet one-way delay: 49.437 ms

Loss rate: 0.29%

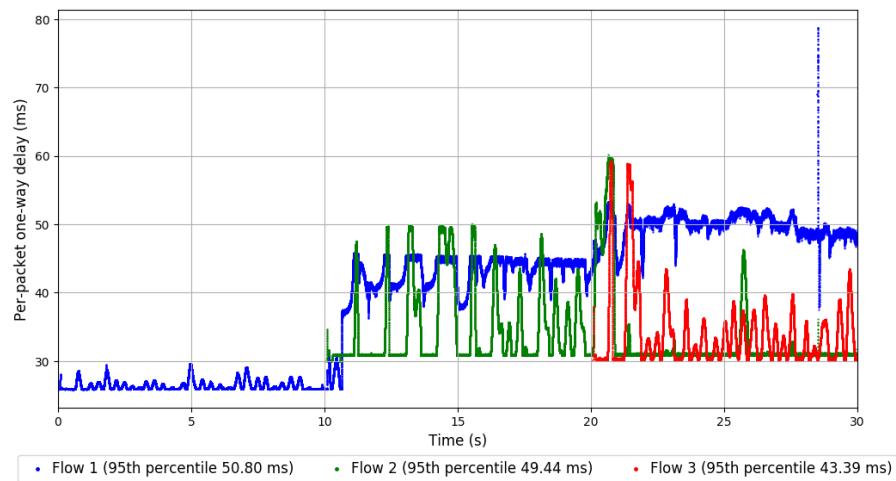
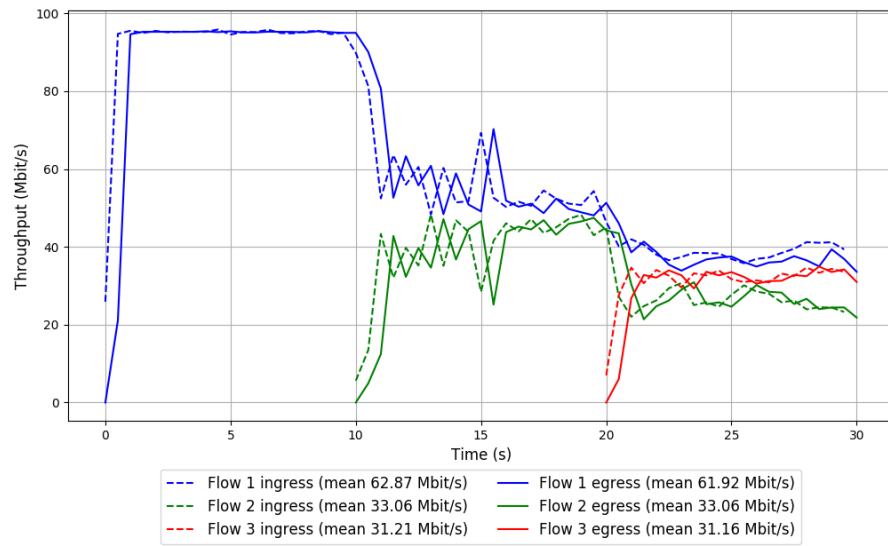
-- Flow 3:

Average throughput: 31.16 Mbit/s

95th percentile per-packet one-way delay: 43.393 ms

Loss rate: 0.76%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-05-25 12:41:14

End at: 2018-05-25 12:41:44

Local clock offset: 0.049 ms

Remote clock offset: 3.493 ms

Below is generated by plot.py at 2018-05-25 15:44:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.44 Mbit/s

95th percentile per-packet one-way delay: 45.989 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 55.87 Mbit/s

95th percentile per-packet one-way delay: 47.368 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 32.61 Mbit/s

95th percentile per-packet one-way delay: 45.366 ms

Loss rate: 0.25%

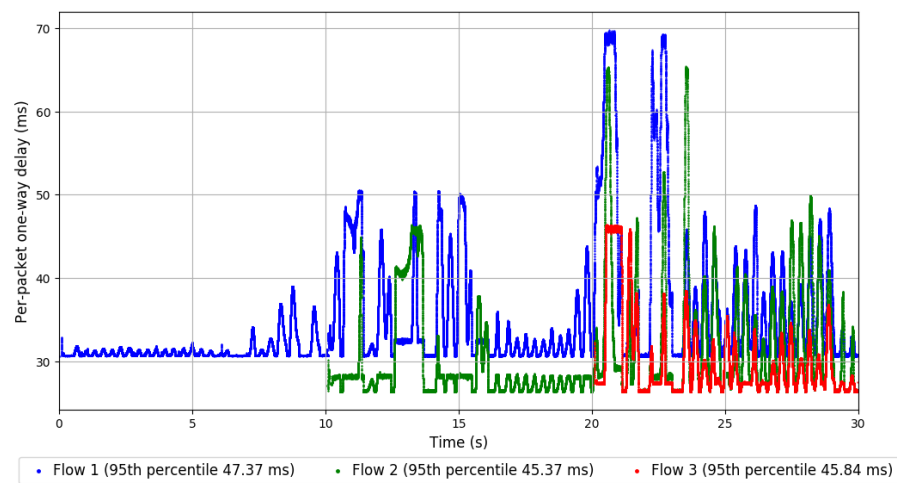
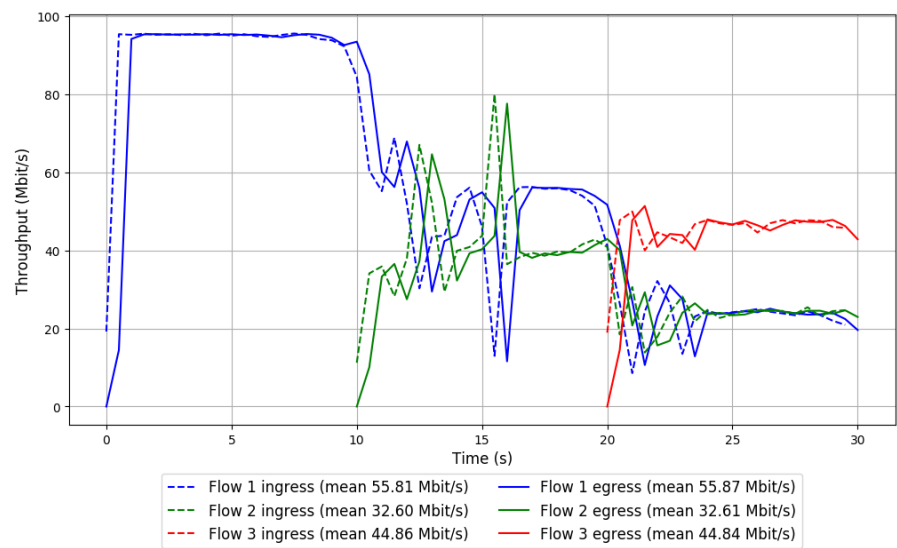
-- Flow 3:

Average throughput: 44.84 Mbit/s

95th percentile per-packet one-way delay: 45.840 ms

Loss rate: 0.61%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-05-25 13:02:35

End at: 2018-05-25 13:03:05

Local clock offset: 0.183 ms

Remote clock offset: 3.449 ms

Below is generated by plot.py at 2018-05-25 15:44:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.98 Mbit/s

95th percentile per-packet one-way delay: 49.409 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 56.41 Mbit/s

95th percentile per-packet one-way delay: 47.337 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 35.43 Mbit/s

95th percentile per-packet one-way delay: 50.933 ms

Loss rate: 0.30%

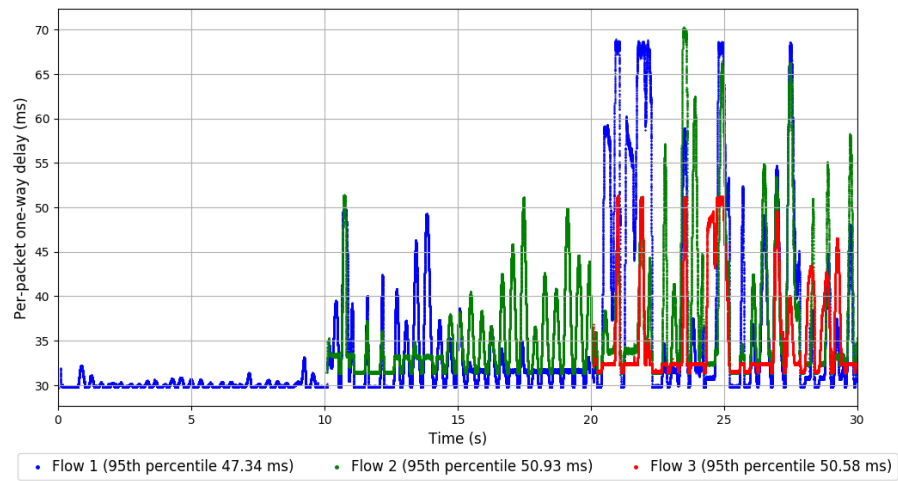
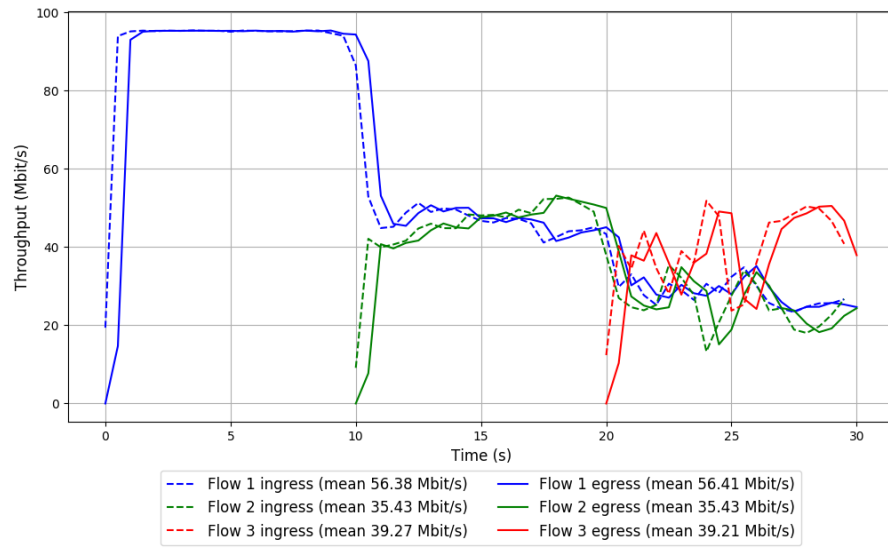
-- Flow 3:

Average throughput: 39.21 Mbit/s

95th percentile per-packet one-way delay: 50.583 ms

Loss rate: 0.76%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-05-25 13:23:57

End at: 2018-05-25 13:24:27

Local clock offset: 0.3 ms

Remote clock offset: 1.281 ms

Below is generated by plot.py at 2018-05-25 15:44:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.18 Mbit/s

95th percentile per-packet one-way delay: 58.519 ms

Loss rate: 1.87%

-- Flow 1:

Average throughput: 59.03 Mbit/s

95th percentile per-packet one-way delay: 58.853 ms

Loss rate: 2.73%

-- Flow 2:

Average throughput: 38.19 Mbit/s

95th percentile per-packet one-way delay: 36.579 ms

Loss rate: 0.28%

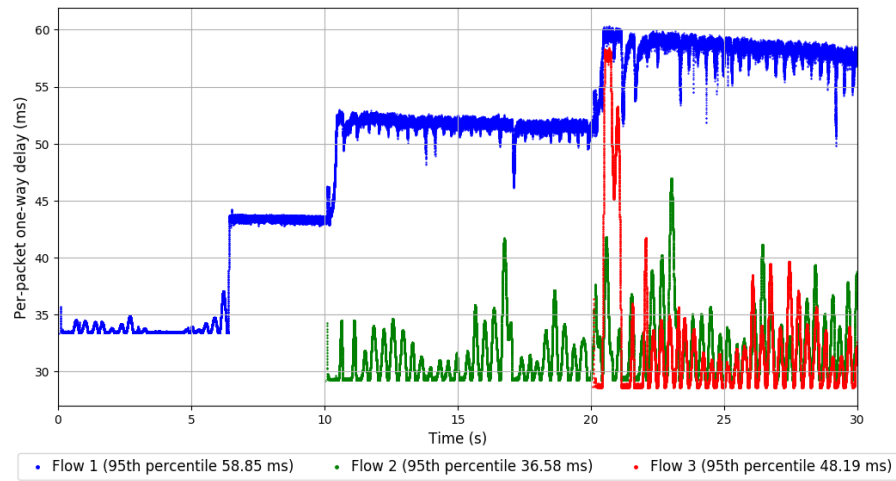
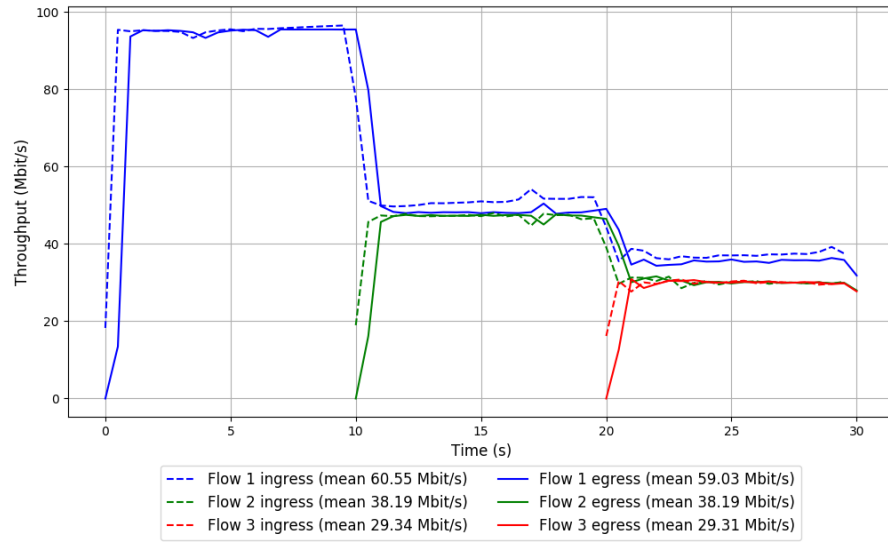
-- Flow 3:

Average throughput: 29.31 Mbit/s

95th percentile per-packet one-way delay: 48.189 ms

Loss rate: 0.67%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-05-25 13:45:16

End at: 2018-05-25 13:45:46

Local clock offset: 0.505 ms

Remote clock offset: 3.599 ms

Below is generated by plot.py at 2018-05-25 15:44:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.30 Mbit/s

95th percentile per-packet one-way delay: 44.049 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 58.77 Mbit/s

95th percentile per-packet one-way delay: 40.597 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 36.59 Mbit/s

95th percentile per-packet one-way delay: 49.926 ms

Loss rate: 0.30%

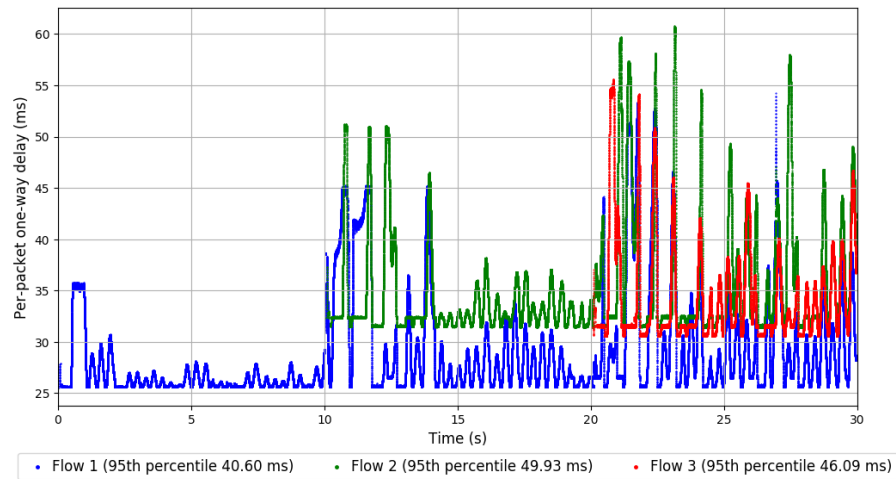
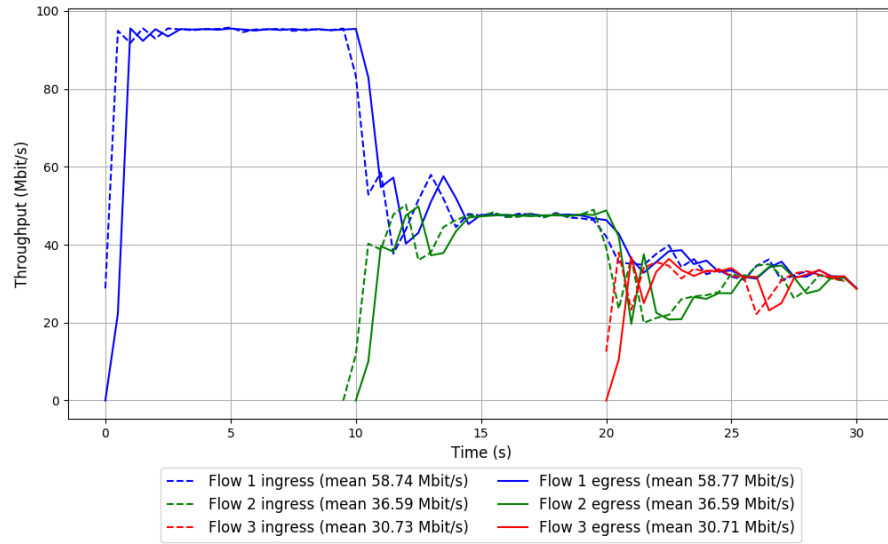
-- Flow 3:

Average throughput: 30.71 Mbit/s

95th percentile per-packet one-way delay: 46.091 ms

Loss rate: 0.69%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-05-25 14:06:31

End at: 2018-05-25 14:07:01

Local clock offset: 0.317 ms

Remote clock offset: 3.007 ms

Below is generated by plot.py at 2018-05-25 15:44:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.41 Mbit/s

95th percentile per-packet one-way delay: 41.660 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 57.24 Mbit/s

95th percentile per-packet one-way delay: 42.730 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 38.93 Mbit/s

95th percentile per-packet one-way delay: 37.023 ms

Loss rate: 0.22%

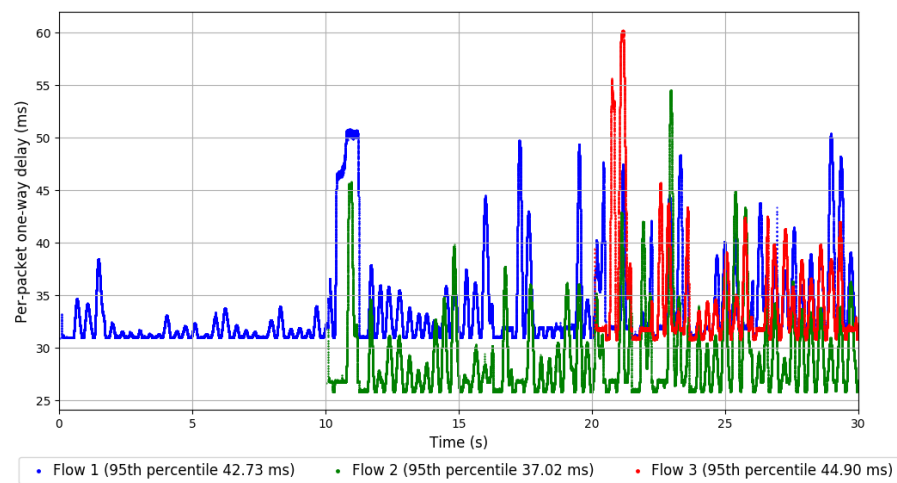
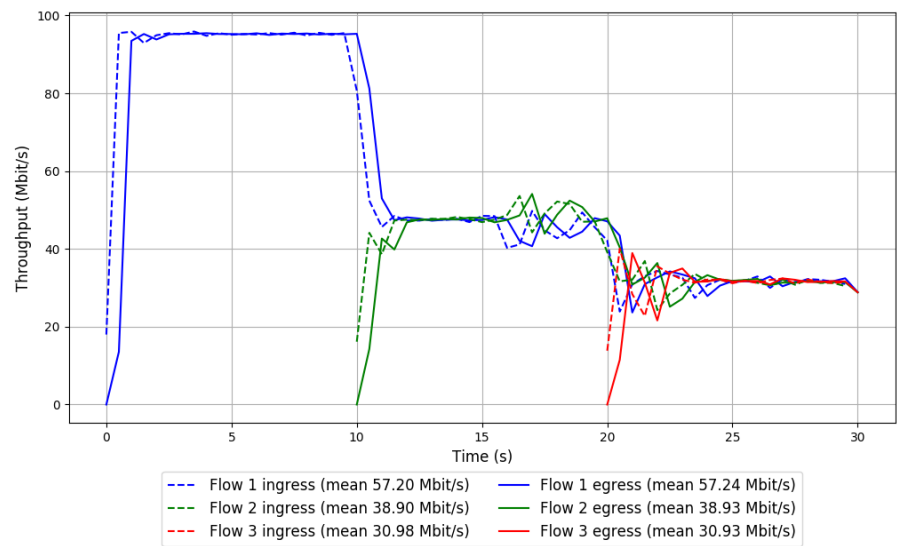
-- Flow 3:

Average throughput: 30.93 Mbit/s

95th percentile per-packet one-way delay: 44.900 ms

Loss rate: 0.75%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-05-25 14:27:46

End at: 2018-05-25 14:28:16

Local clock offset: 0.182 ms

Remote clock offset: 3.434 ms

Below is generated by plot.py at 2018-05-25 15:46:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.43 Mbit/s

95th percentile per-packet one-way delay: 40.226 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 54.44 Mbit/s

95th percentile per-packet one-way delay: 36.476 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 35.51 Mbit/s

95th percentile per-packet one-way delay: 44.582 ms

Loss rate: 0.23%

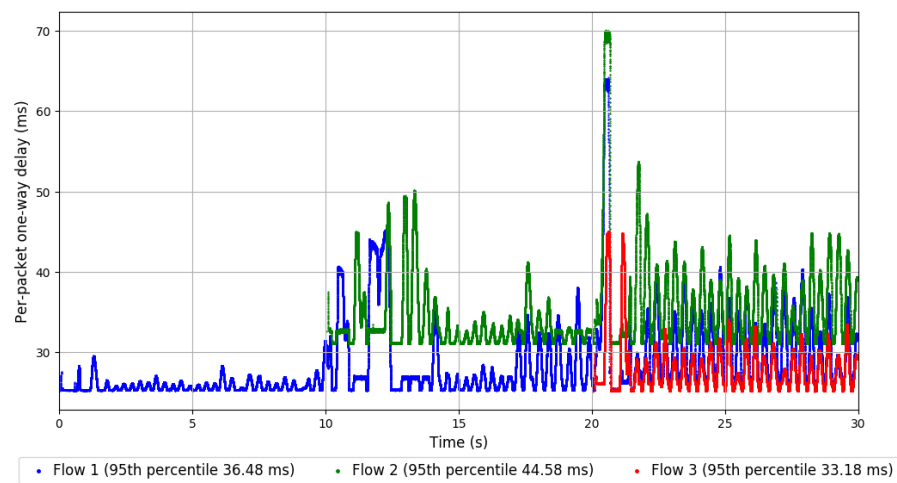
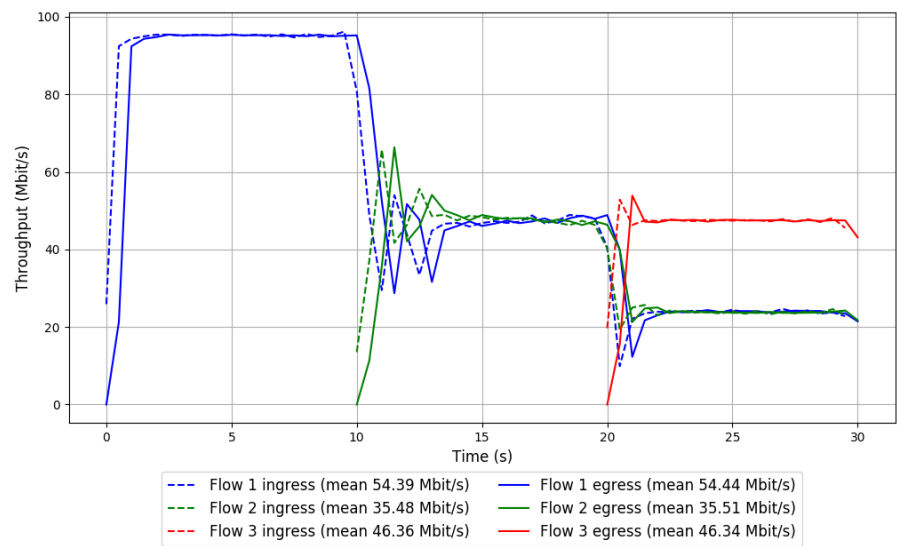
-- Flow 3:

Average throughput: 46.34 Mbit/s

95th percentile per-packet one-way delay: 33.180 ms

Loss rate: 0.60%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-05-25 14:49:04

End at: 2018-05-25 14:49:34

Local clock offset: 0.085 ms

Remote clock offset: 3.474 ms

Below is generated by plot.py at 2018-05-25 15:46:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.42 Mbit/s

95th percentile per-packet one-way delay: 41.805 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 62.29 Mbit/s

95th percentile per-packet one-way delay: 37.786 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 34.18 Mbit/s

95th percentile per-packet one-way delay: 45.297 ms

Loss rate: 0.23%

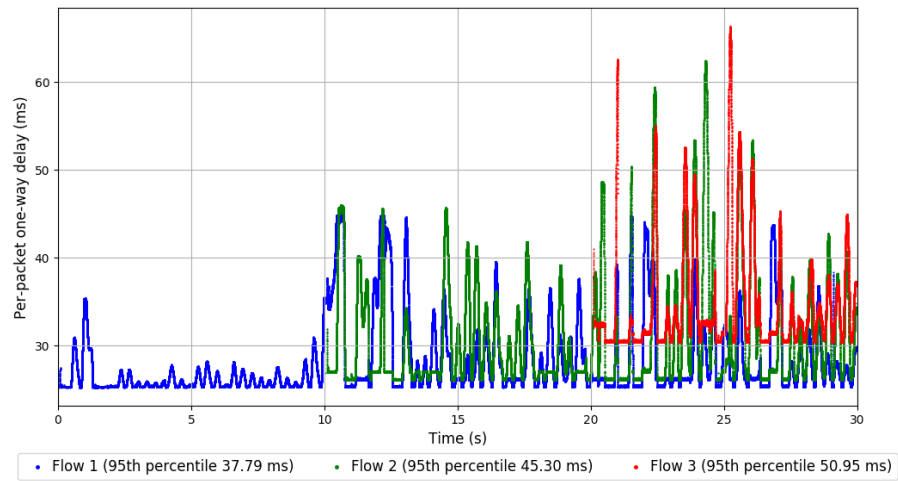
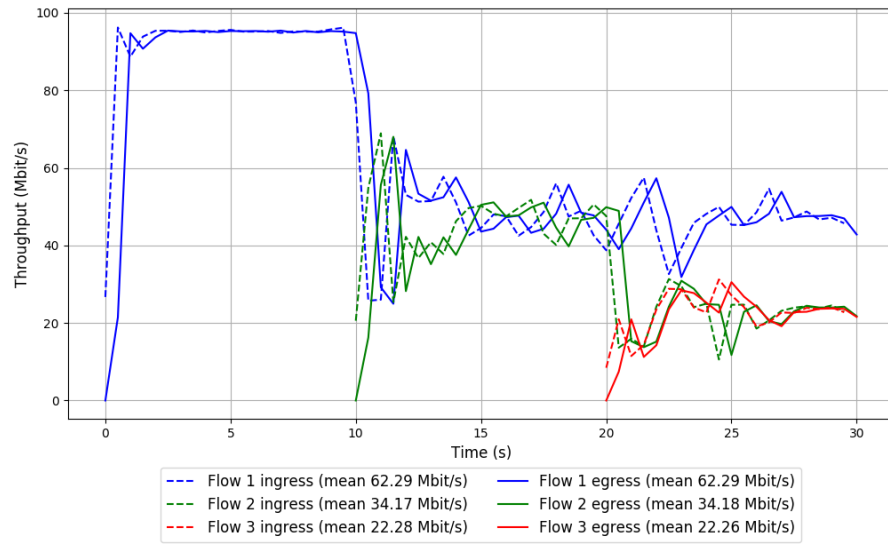
-- Flow 3:

Average throughput: 22.26 Mbit/s

95th percentile per-packet one-way delay: 50.948 ms

Loss rate: 0.70%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-05-25 15:10:22

End at: 2018-05-25 15:10:52

Local clock offset: 0.465 ms

Remote clock offset: 0.501 ms

Below is generated by plot.py at 2018-05-25 15:46:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.33 Mbit/s

95th percentile per-packet one-way delay: 52.100 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 54.07 Mbit/s

95th percentile per-packet one-way delay: 51.689 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 46.13 Mbit/s

95th percentile per-packet one-way delay: 52.713 ms

Loss rate: 0.49%

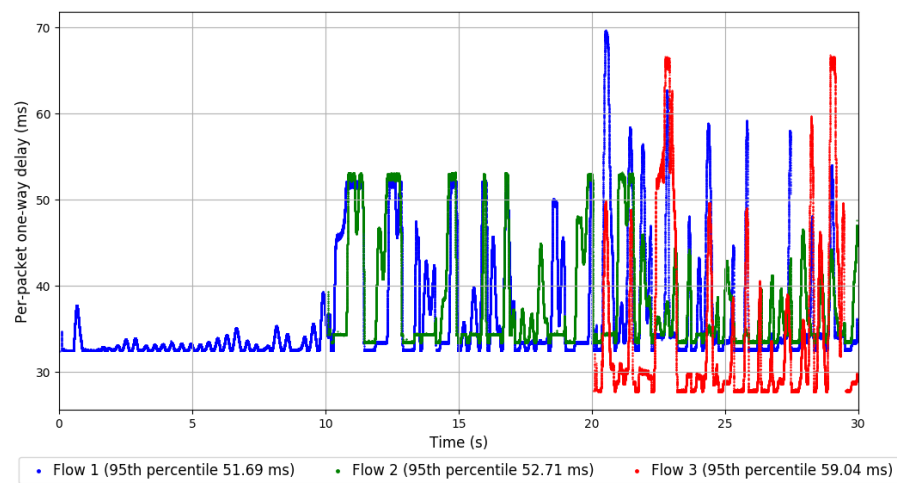
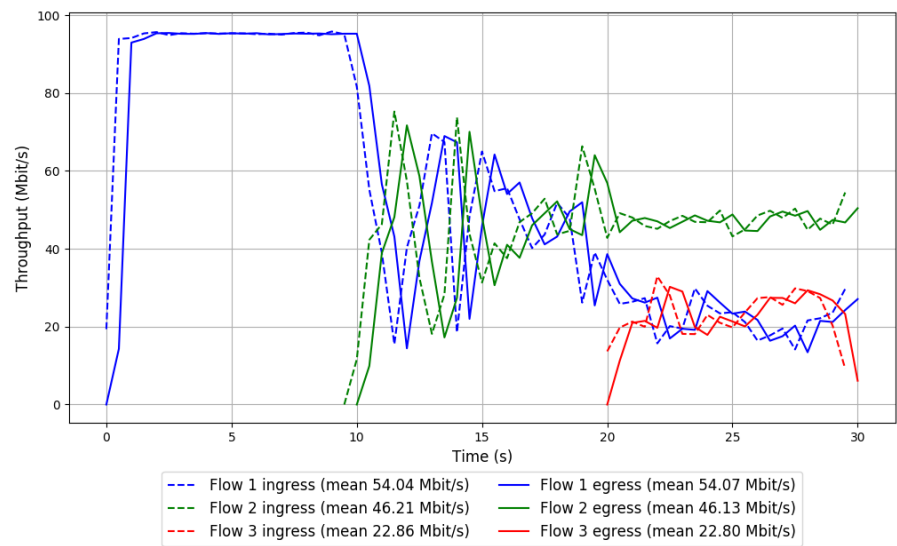
-- Flow 3:

Average throughput: 22.80 Mbit/s

95th percentile per-packet one-way delay: 59.040 ms

Loss rate: 0.81%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-05-25 15:31:43

End at: 2018-05-25 15:32:13

Local clock offset: 0.257 ms

Remote clock offset: 2.237 ms

Below is generated by plot.py at 2018-05-25 15:46:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.13 Mbit/s

95th percentile per-packet one-way delay: 47.294 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 56.89 Mbit/s

95th percentile per-packet one-way delay: 41.191 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 38.69 Mbit/s

95th percentile per-packet one-way delay: 48.257 ms

Loss rate: 0.27%

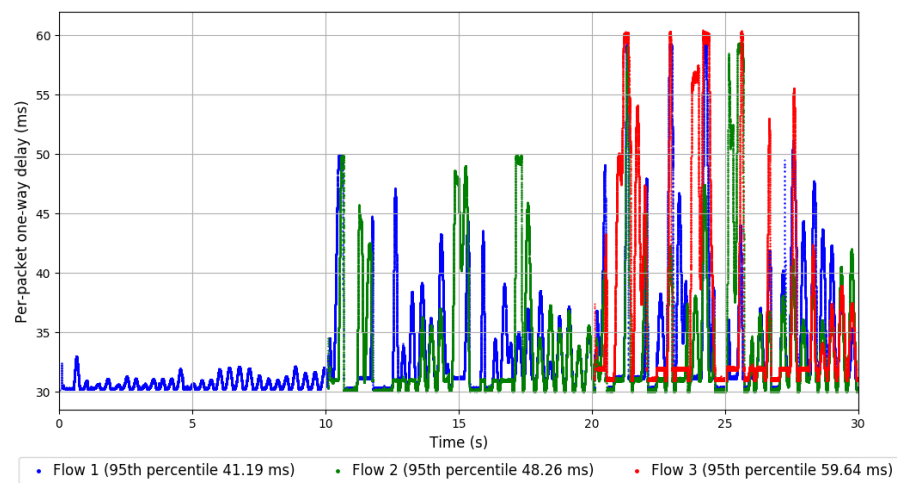
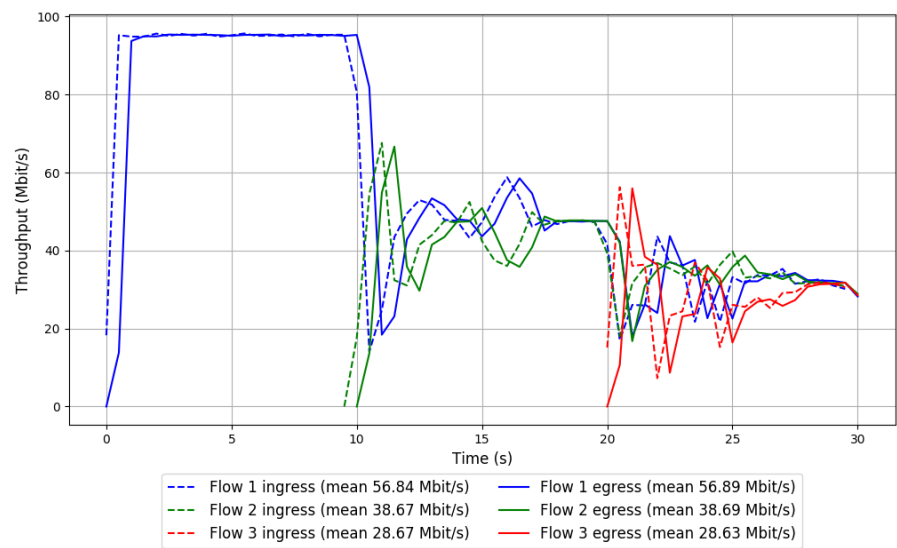
-- Flow 3:

Average throughput: 28.63 Mbit/s

95th percentile per-packet one-way delay: 59.644 ms

Loss rate: 0.76%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-05-25 12:21:20

End at: 2018-05-25 12:21:50

Local clock offset: 0.376 ms

Remote clock offset: 3.715 ms

Below is generated by plot.py at 2018-05-25 15:46:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.31 Mbit/s

95th percentile per-packet one-way delay: 36.584 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 51.08 Mbit/s

95th percentile per-packet one-way delay: 37.024 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 34.98 Mbit/s

95th percentile per-packet one-way delay: 36.971 ms

Loss rate: 0.29%

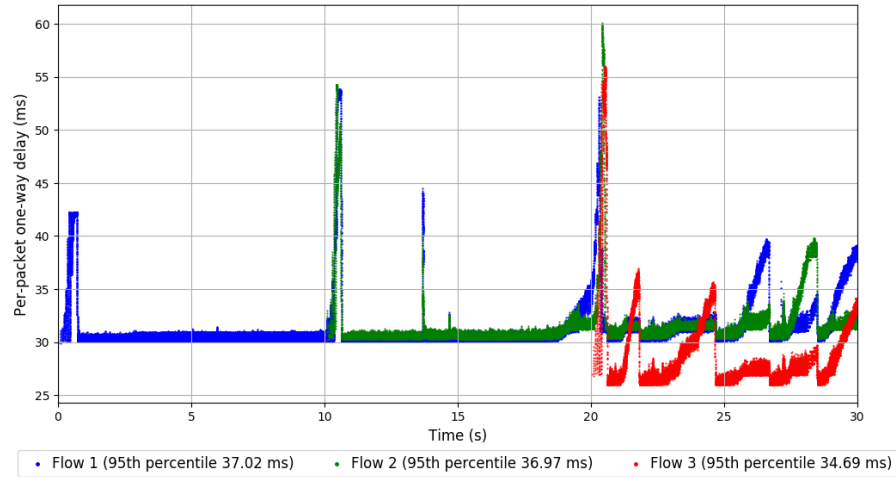
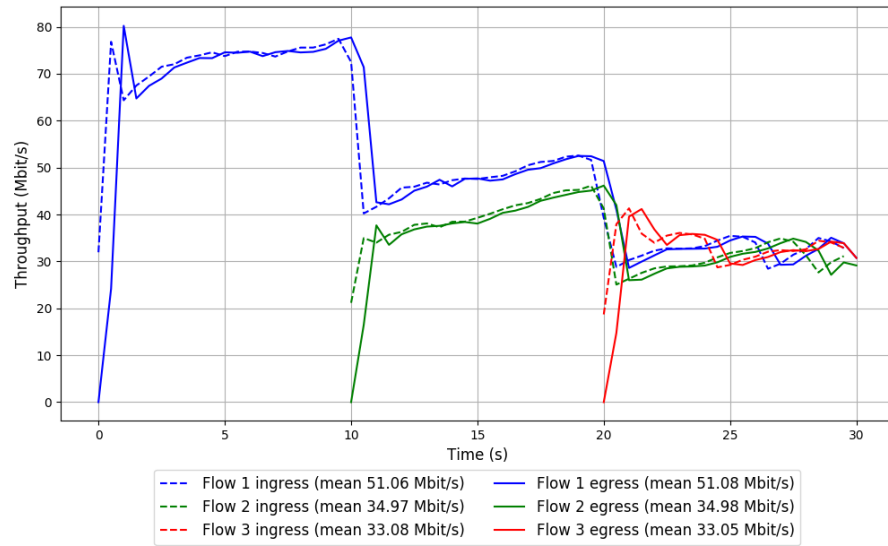
-- Flow 3:

Average throughput: 33.05 Mbit/s

95th percentile per-packet one-way delay: 34.689 ms

Loss rate: 0.65%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-05-25 12:42:38

End at: 2018-05-25 12:43:08

Local clock offset: 0.028 ms

Remote clock offset: 3.949 ms

Below is generated by plot.py at 2018-05-25 15:46:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.70 Mbit/s

95th percentile per-packet one-way delay: 37.802 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 50.31 Mbit/s

95th percentile per-packet one-way delay: 37.980 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 36.78 Mbit/s

95th percentile per-packet one-way delay: 34.362 ms

Loss rate: 0.22%

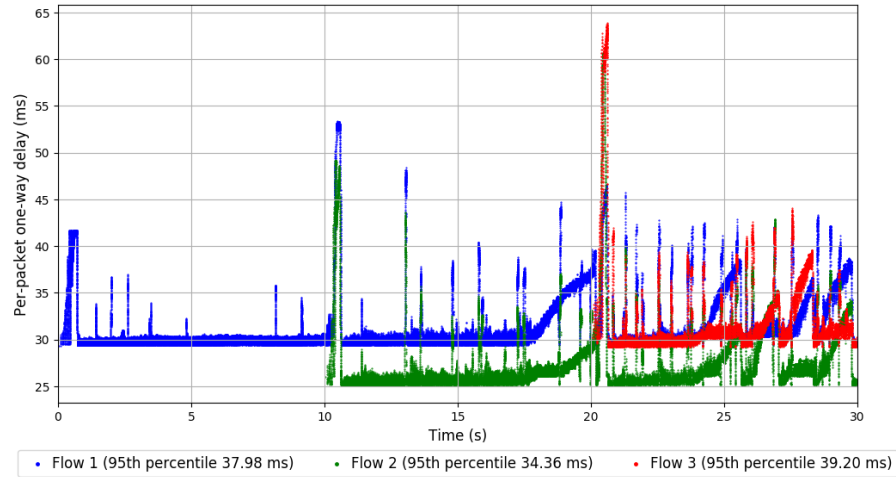
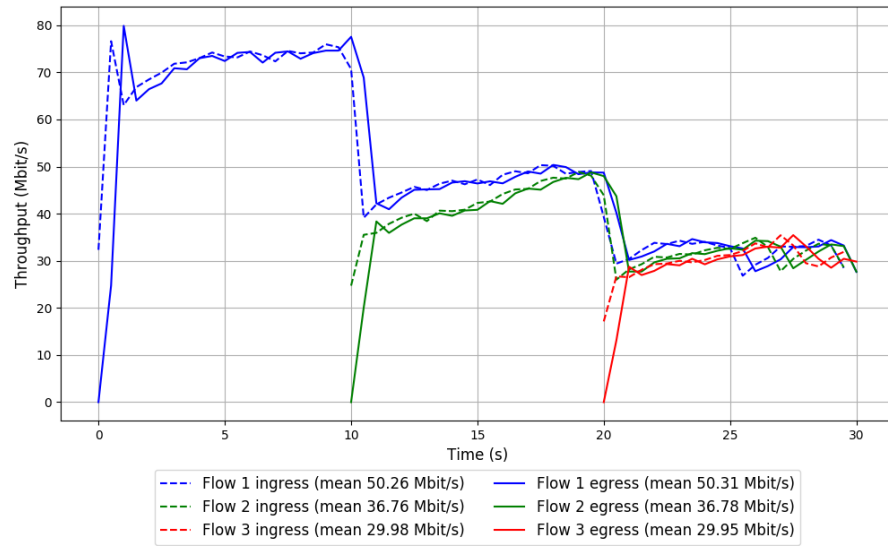
-- Flow 3:

Average throughput: 29.95 Mbit/s

95th percentile per-packet one-way delay: 39.196 ms

Loss rate: 0.69%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-05-25 13:03:59

End at: 2018-05-25 13:04:29

Local clock offset: 0.216 ms

Remote clock offset: 3.895 ms

Below is generated by plot.py at 2018-05-25 15:46:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.21 Mbit/s

95th percentile per-packet one-way delay: 37.275 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 55.78 Mbit/s

95th percentile per-packet one-way delay: 37.243 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 42.85 Mbit/s

95th percentile per-packet one-way delay: 37.062 ms

Loss rate: 0.34%

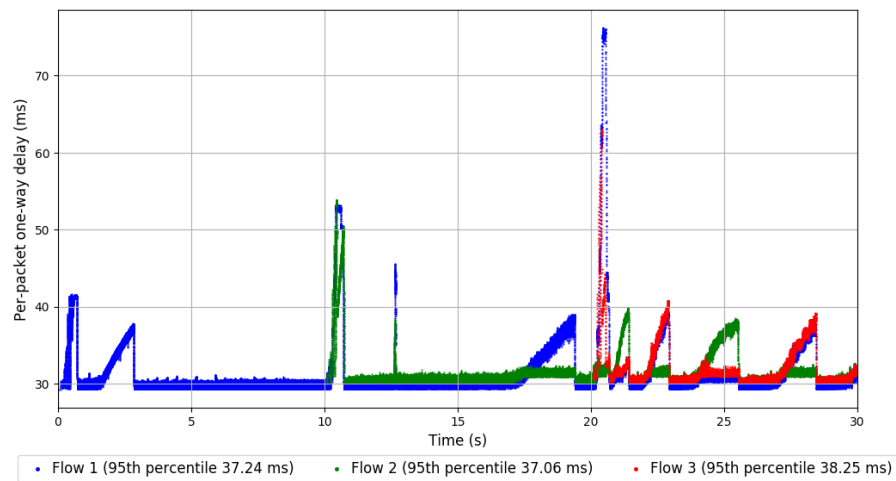
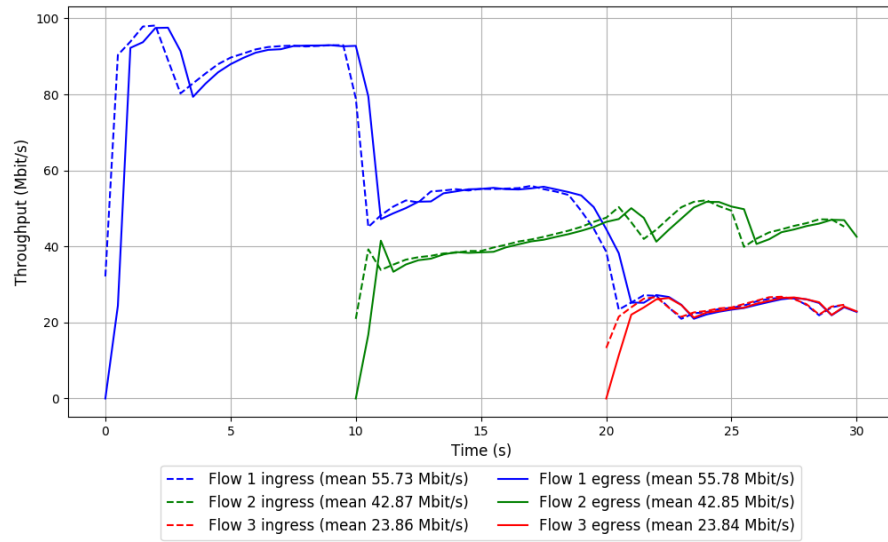
-- Flow 3:

Average throughput: 23.84 Mbit/s

95th percentile per-packet one-way delay: 38.251 ms

Loss rate: 0.70%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-05-25 13:25:21

End at: 2018-05-25 13:25:51

Local clock offset: 0.408 ms

Remote clock offset: 3.783 ms

Below is generated by plot.py at 2018-05-25 15:46:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.59 Mbit/s

95th percentile per-packet one-way delay: 38.431 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 55.22 Mbit/s

95th percentile per-packet one-way delay: 36.962 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 37.17 Mbit/s

95th percentile per-packet one-way delay: 40.009 ms

Loss rate: 0.22%

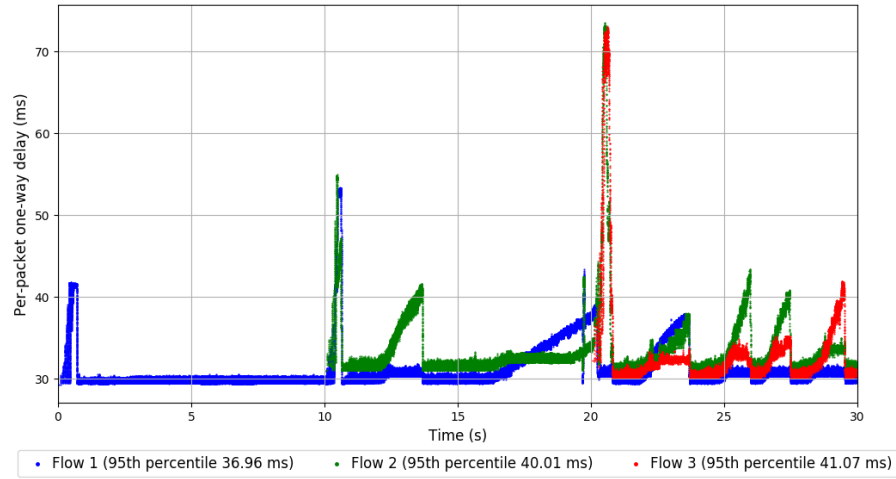
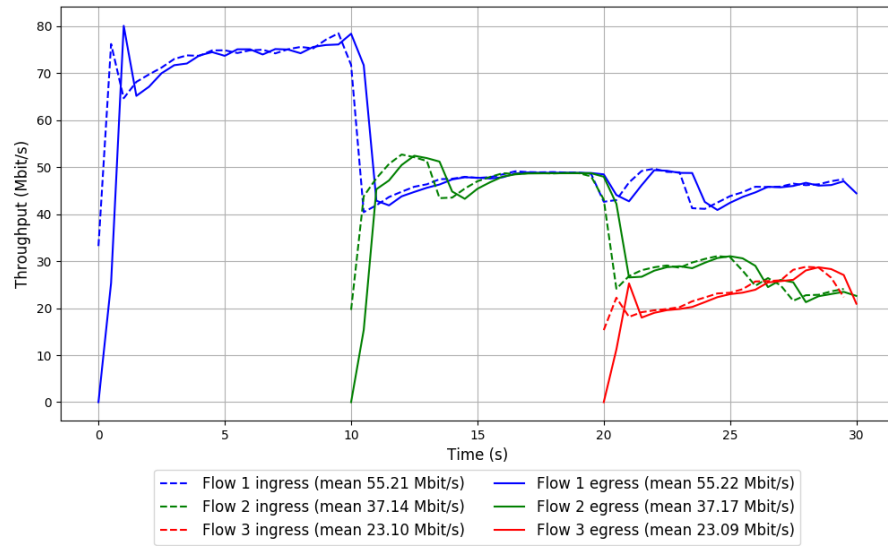
-- Flow 3:

Average throughput: 23.09 Mbit/s

95th percentile per-packet one-way delay: 41.067 ms

Loss rate: 0.68%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-05-25 13:46:40

End at: 2018-05-25 13:47:10

Local clock offset: 0.625 ms

Remote clock offset: 3.443 ms

Below is generated by plot.py at 2018-05-25 15:46:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.61 Mbit/s

95th percentile per-packet one-way delay: 36.545 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 49.30 Mbit/s

95th percentile per-packet one-way delay: 36.819 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 40.76 Mbit/s

95th percentile per-packet one-way delay: 34.665 ms

Loss rate: 0.22%

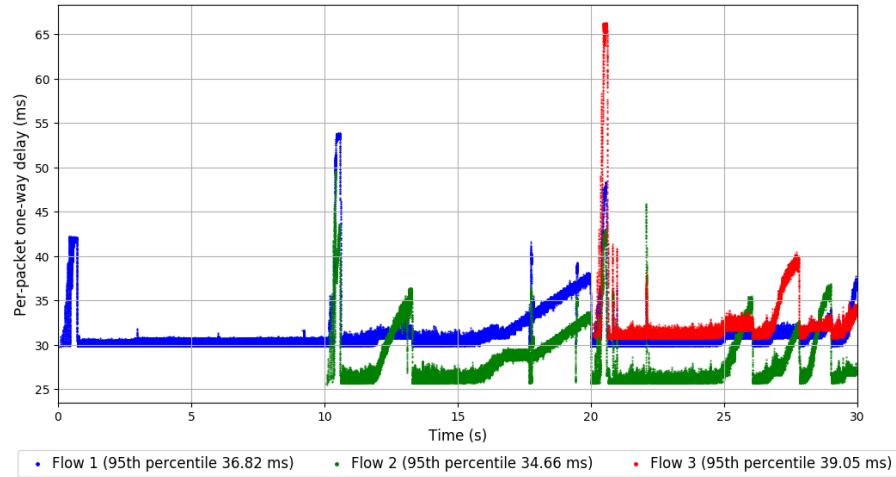
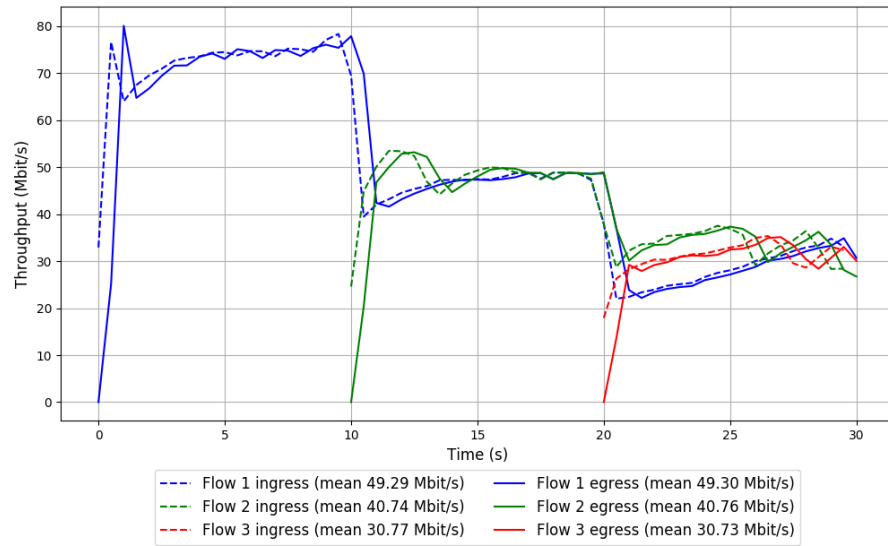
-- Flow 3:

Average throughput: 30.73 Mbit/s

95th percentile per-packet one-way delay: 39.054 ms

Loss rate: 0.72%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-05-25 14:07:55

End at: 2018-05-25 14:08:25

Local clock offset: 0.29 ms

Remote clock offset: 0.917 ms

Below is generated by plot.py at 2018-05-25 15:46:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.40 Mbit/s

95th percentile per-packet one-way delay: 39.520 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 54.41 Mbit/s

95th percentile per-packet one-way delay: 40.451 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 45.98 Mbit/s

95th percentile per-packet one-way delay: 35.606 ms

Loss rate: 0.30%

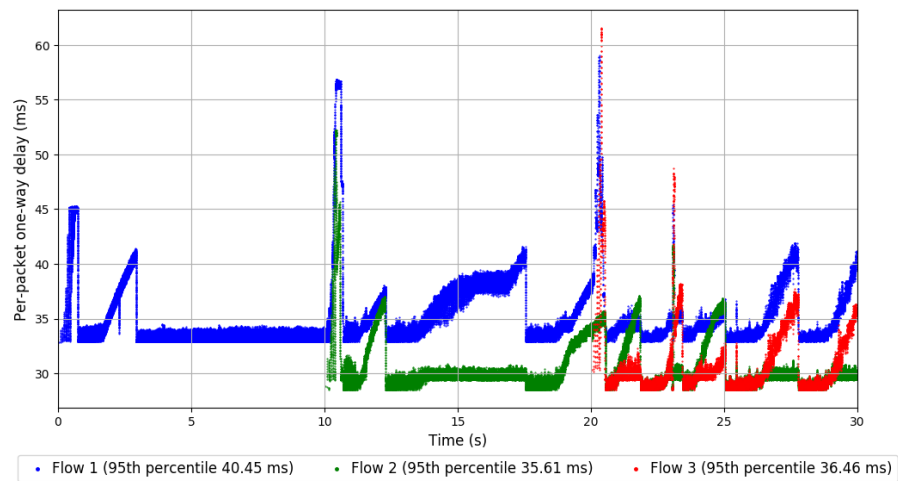
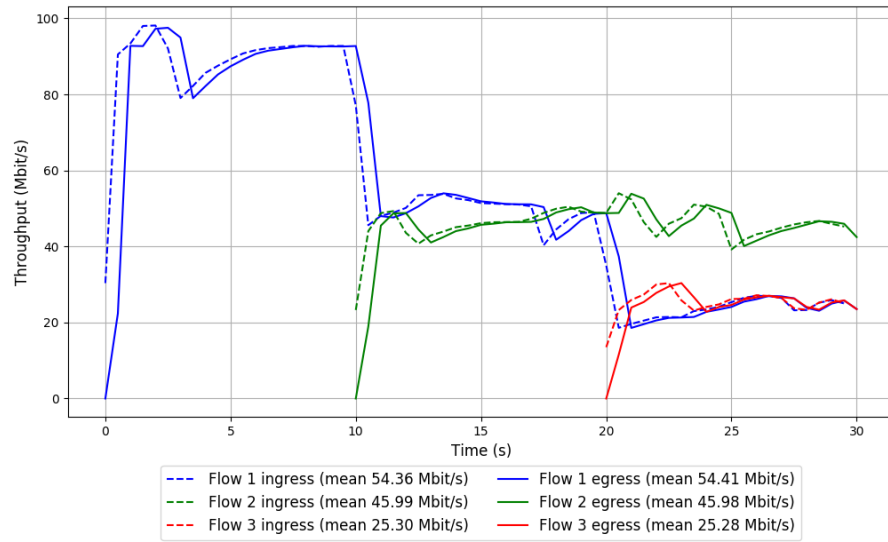
-- Flow 3:

Average throughput: 25.28 Mbit/s

95th percentile per-packet one-way delay: 36.460 ms

Loss rate: 0.66%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-05-25 14:29:10

End at: 2018-05-25 14:29:40

Local clock offset: 0.155 ms

Remote clock offset: 0.807 ms

Below is generated by plot.py at 2018-05-25 15:46:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.04 Mbit/s

95th percentile per-packet one-way delay: 39.103 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 50.09 Mbit/s

95th percentile per-packet one-way delay: 40.182 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 40.02 Mbit/s

95th percentile per-packet one-way delay: 36.863 ms

Loss rate: 0.22%

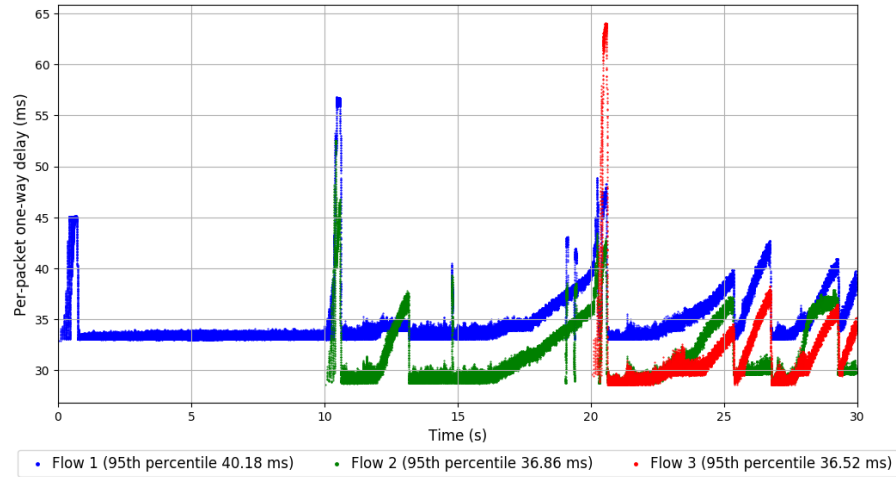
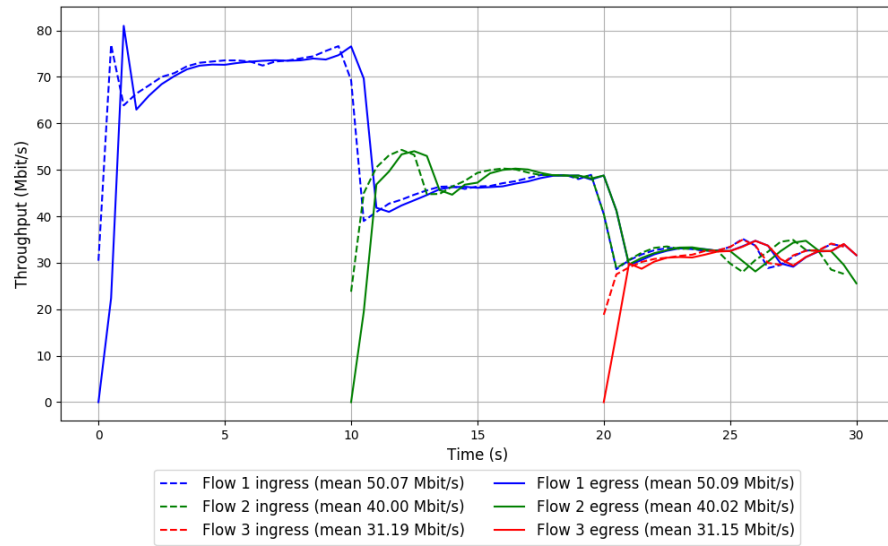
-- Flow 3:

Average throughput: 31.15 Mbit/s

95th percentile per-packet one-way delay: 36.524 ms

Loss rate: 0.68%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-05-25 14:50:27

End at: 2018-05-25 14:50:57

Local clock offset: 0.095 ms

Remote clock offset: 0.921 ms

Below is generated by plot.py at 2018-05-25 15:46:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.32 Mbit/s

95th percentile per-packet one-way delay: 39.771 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 50.60 Mbit/s

95th percentile per-packet one-way delay: 40.409 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 36.66 Mbit/s

95th percentile per-packet one-way delay: 35.954 ms

Loss rate: 0.30%

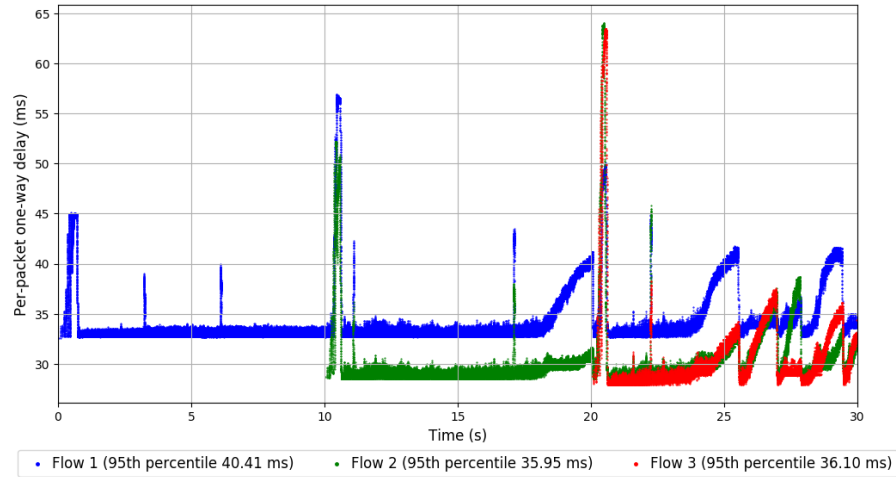
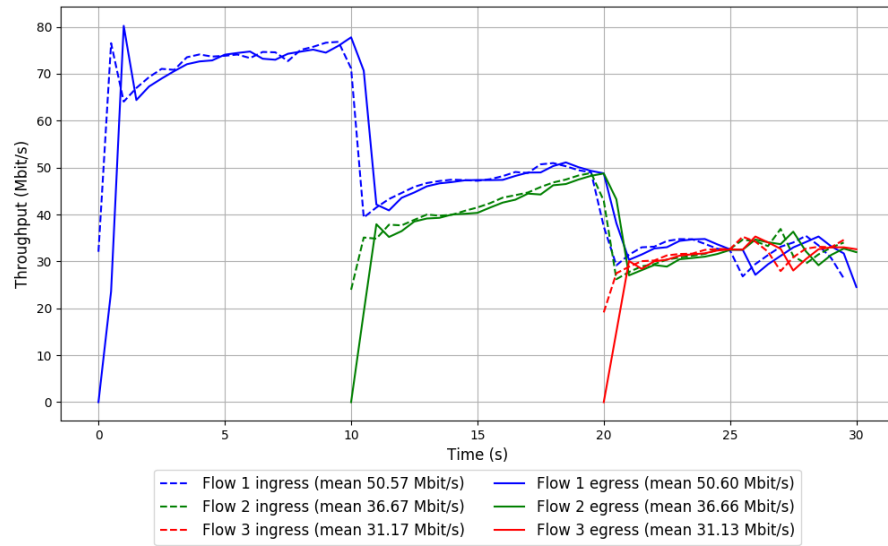
-- Flow 3:

Average throughput: 31.13 Mbit/s

95th percentile per-packet one-way delay: 36.099 ms

Loss rate: 0.69%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-05-25 15:11:46

End at: 2018-05-25 15:12:16

Local clock offset: 0.583 ms

Remote clock offset: 0.478 ms

Below is generated by plot.py at 2018-05-25 15:47:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.62 Mbit/s

95th percentile per-packet one-way delay: 40.022 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 55.10 Mbit/s

95th percentile per-packet one-way delay: 40.783 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 45.76 Mbit/s

95th percentile per-packet one-way delay: 35.643 ms

Loss rate: 0.30%

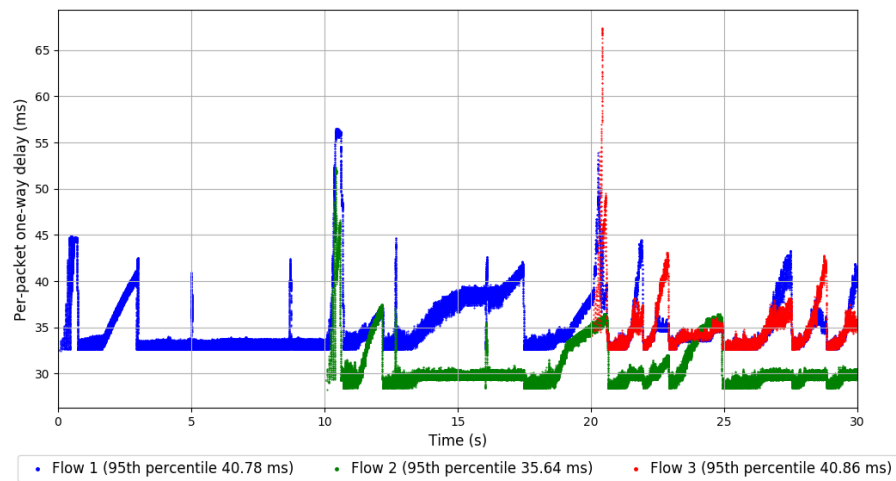
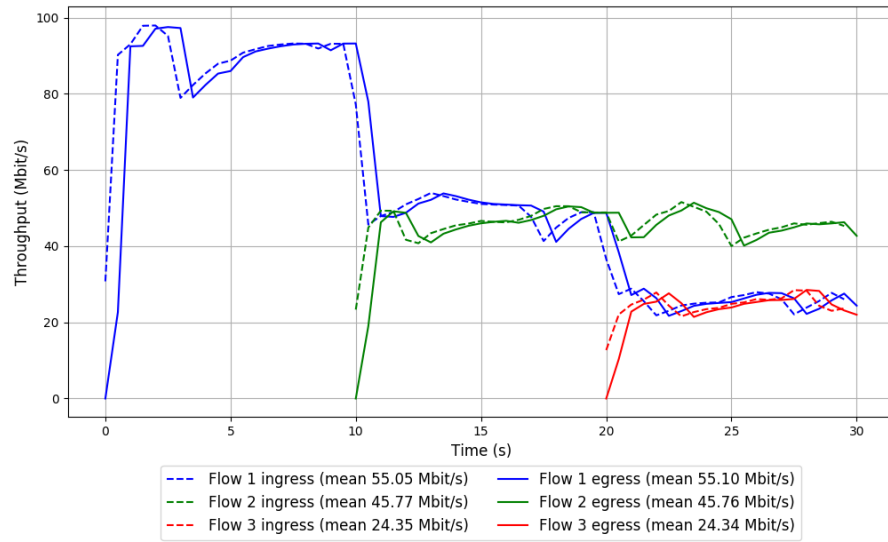
-- Flow 3:

Average throughput: 24.34 Mbit/s

95th percentile per-packet one-way delay: 40.863 ms

Loss rate: 0.67%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-05-25 15:33:07

End at: 2018-05-25 15:33:37

Local clock offset: 0.327 ms

Remote clock offset: 2.17 ms

Below is generated by plot.py at 2018-05-25 15:47:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.53 Mbit/s

95th percentile per-packet one-way delay: 38.011 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 51.73 Mbit/s

95th percentile per-packet one-way delay: 37.059 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 34.57 Mbit/s

95th percentile per-packet one-way delay: 37.726 ms

Loss rate: 0.29%

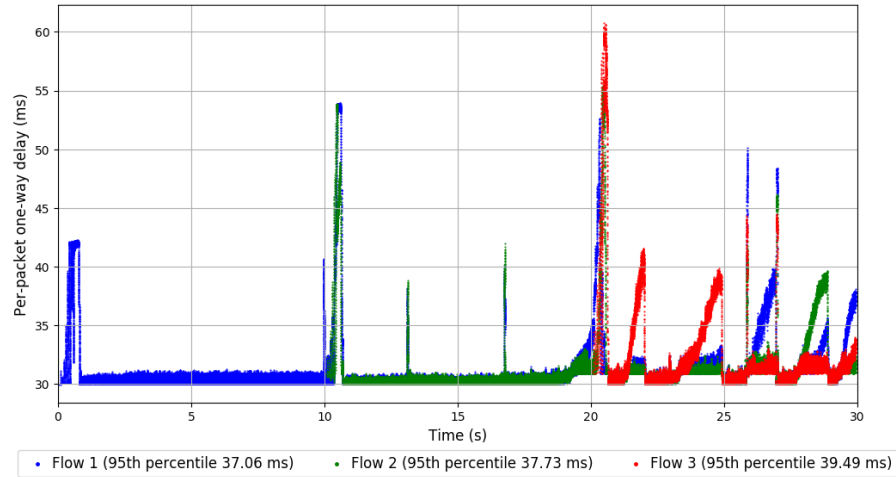
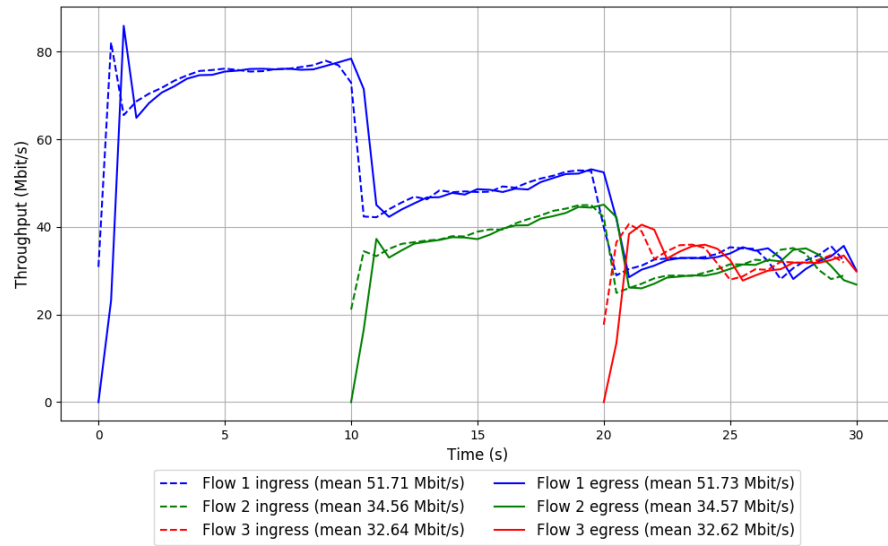
-- Flow 3:

Average throughput: 32.62 Mbit/s

95th percentile per-packet one-way delay: 39.491 ms

Loss rate: 0.66%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-05-25 12:06:38

End at: 2018-05-25 12:07:08

Local clock offset: 0.378 ms

Remote clock offset: 0.883 ms

Below is generated by plot.py at 2018-05-25 15:48:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.21 Mbit/s

95th percentile per-packet one-way delay: 66.999 ms

Loss rate: 2.58%

-- Flow 1:

Average throughput: 55.55 Mbit/s

95th percentile per-packet one-way delay: 68.818 ms

Loss rate: 1.86%

-- Flow 2:

Average throughput: 46.66 Mbit/s

95th percentile per-packet one-way delay: 51.927 ms

Loss rate: 3.30%

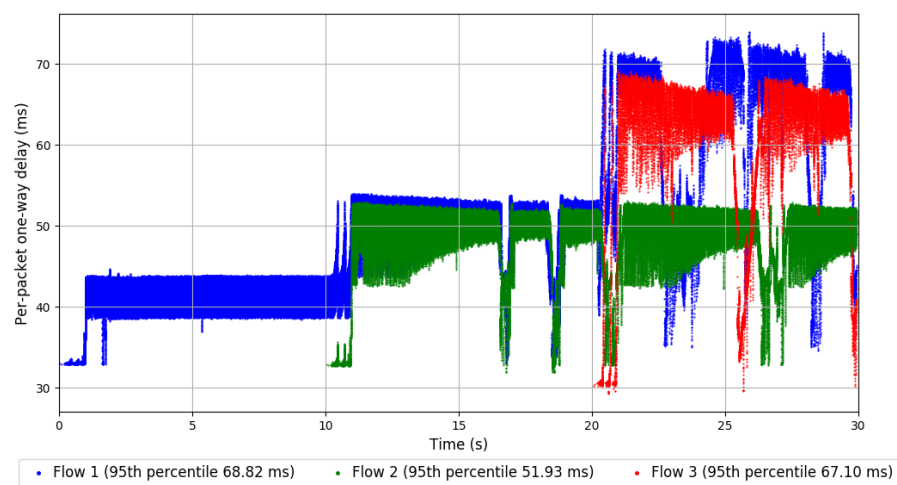
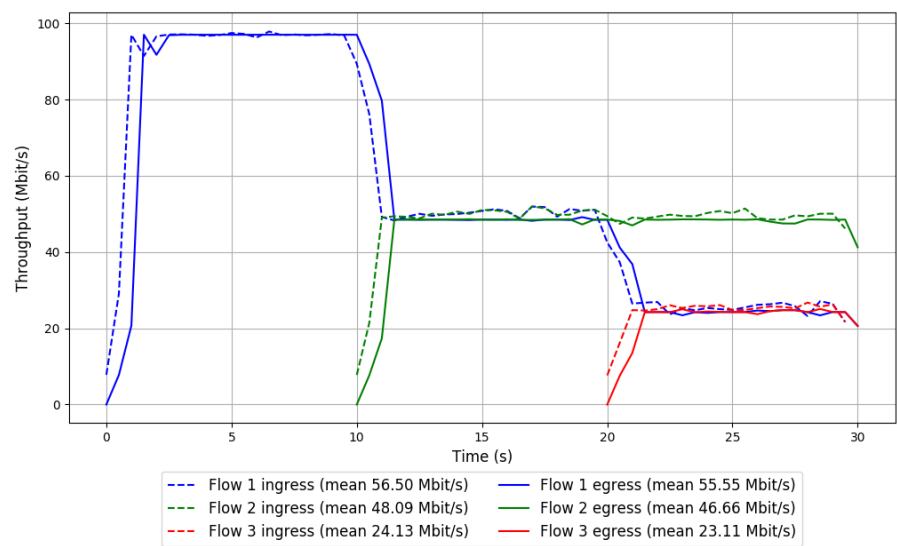
-- Flow 3:

Average throughput: 23.11 Mbit/s

95th percentile per-packet one-way delay: 67.096 ms

Loss rate: 4.76%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-05-25 12:27:53

End at: 2018-05-25 12:28:23

Local clock offset: 0.213 ms

Remote clock offset: 3.407 ms

Below is generated by plot.py at 2018-05-25 15:48:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.42 Mbit/s

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

Loss rate: 2.28%

-- Flow 1:

Average throughput: 55.93 Mbit/s

95th percentile per-packet one-way delay: 61.902 ms

Loss rate: 1.44%

-- Flow 2:

Average throughput: 35.56 Mbit/s

95th percentile per-packet one-way delay: 69.243 ms

Loss rate: 3.67%

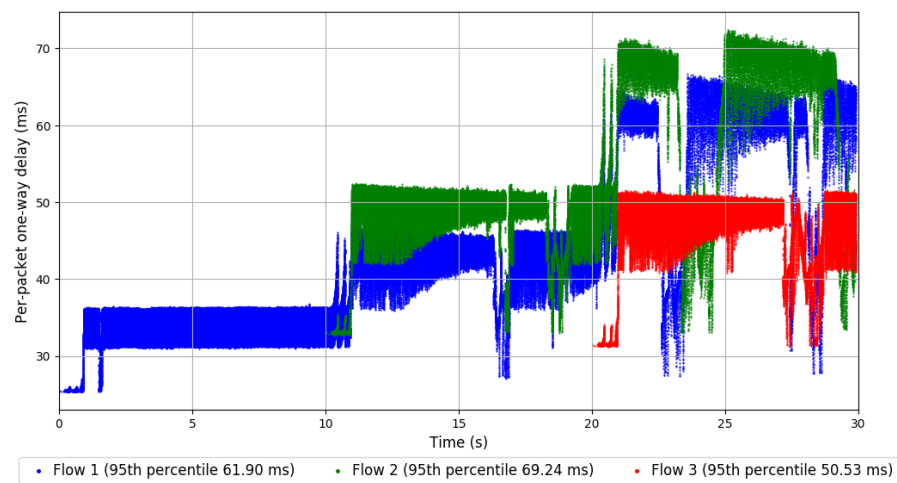
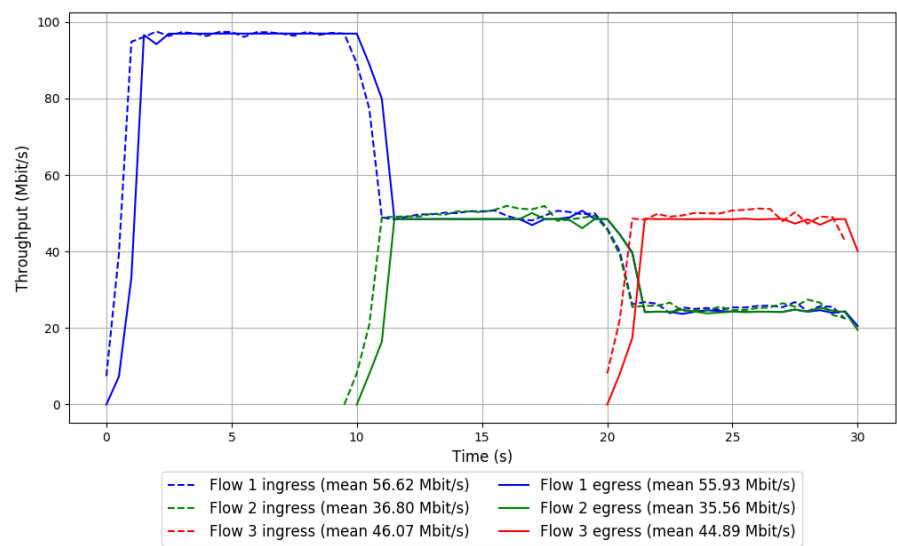
-- Flow 3:

Average throughput: 44.89 Mbit/s

95th percentile per-packet one-way delay: 50.532 ms

Loss rate: 3.17%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-05-25 12:49:14

End at: 2018-05-25 12:49:44

Local clock offset: 0.099 ms

Remote clock offset: 3.789 ms

Below is generated by plot.py at 2018-05-25 15:48:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.73 Mbit/s

95th percentile per-packet one-way delay: 62.460 ms

Loss rate: 2.75%

-- Flow 1:

Average throughput: 57.19 Mbit/s

95th percentile per-packet one-way delay: 63.999 ms

Loss rate: 1.87%

-- Flow 2:

Average throughput: 35.69 Mbit/s

95th percentile per-packet one-way delay: 62.209 ms

Loss rate: 4.33%

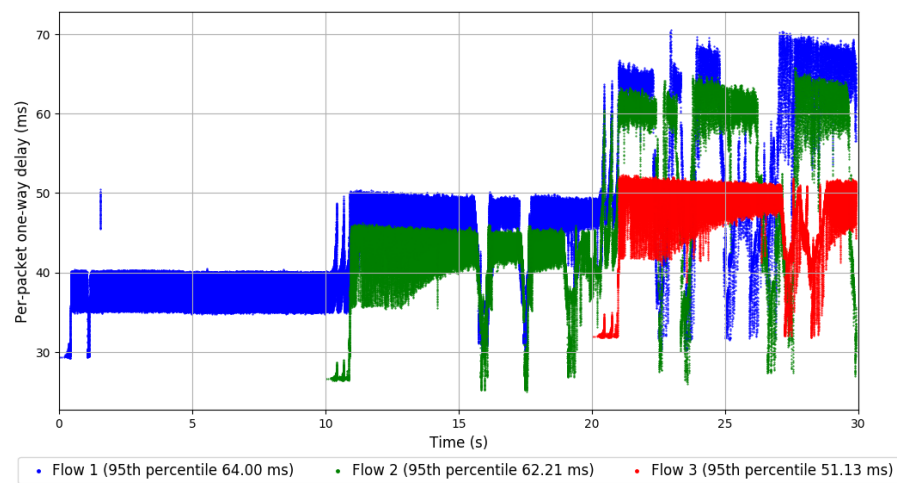
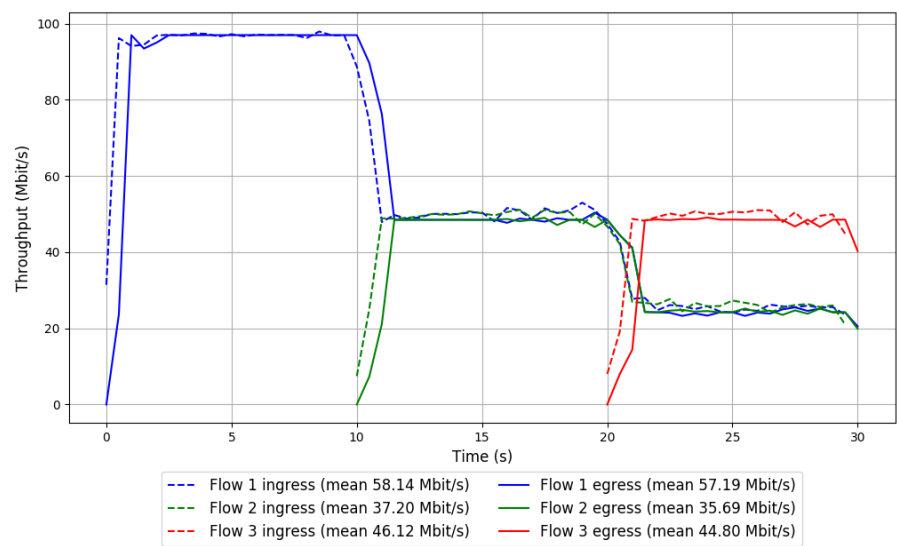
-- Flow 3:

Average throughput: 44.80 Mbit/s

95th percentile per-packet one-way delay: 51.133 ms

Loss rate: 3.54%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-05-25 13:10:35

End at: 2018-05-25 13:11:05

Local clock offset: 0.357 ms

Remote clock offset: 3.574 ms

Below is generated by plot.py at 2018-05-25 15:48:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.53 Mbit/s

95th percentile per-packet one-way delay: 65.307 ms

Loss rate: 2.58%

-- Flow 1:

Average throughput: 61.65 Mbit/s

95th percentile per-packet one-way delay: 46.250 ms

Loss rate: 1.63%

-- Flow 2:

Average throughput: 36.09 Mbit/s

95th percentile per-packet one-way delay: 62.827 ms

Loss rate: 3.95%

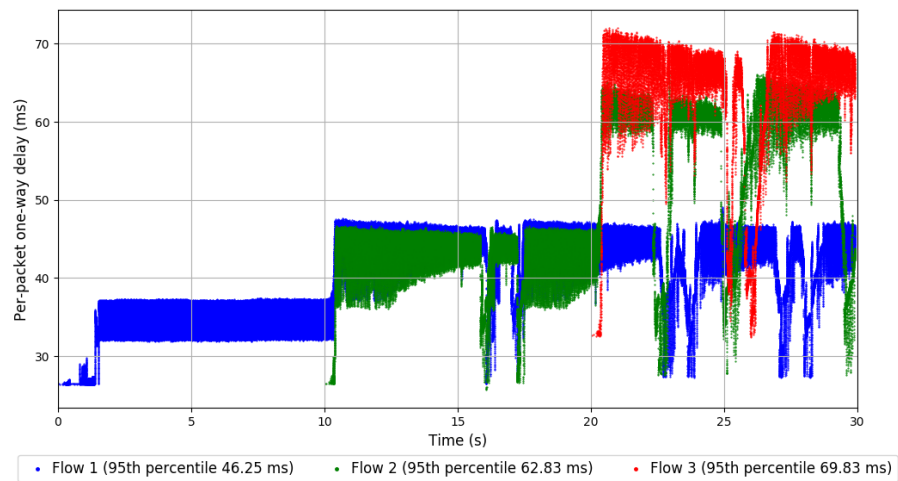
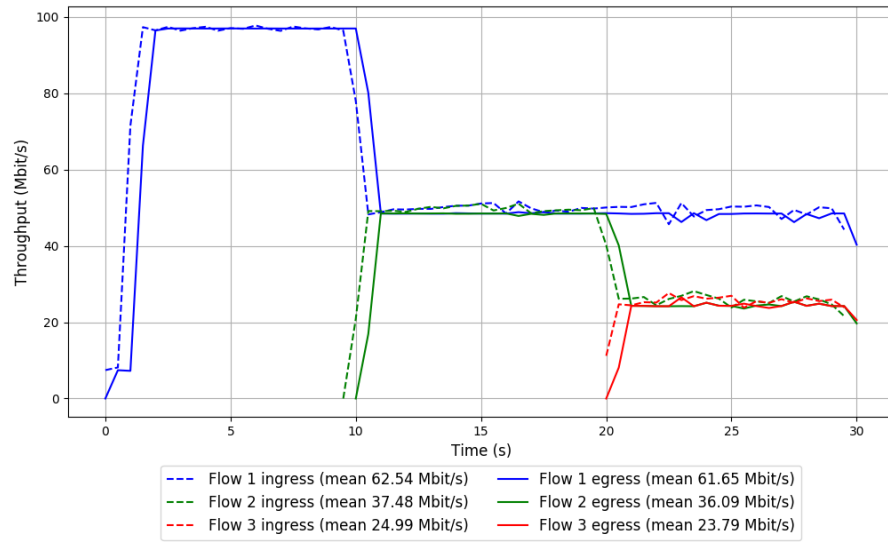
-- Flow 3:

Average throughput: 23.79 Mbit/s

95th percentile per-packet one-way delay: 69.831 ms

Loss rate: 5.55%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-05-25 13:31:56

End at: 2018-05-25 13:32:26

Local clock offset: 0.458 ms

Remote clock offset: 3.355 ms

Below is generated by plot.py at 2018-05-25 15:48:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.66 Mbit/s

95th percentile per-packet one-way delay: 65.419 ms

Loss rate: 2.43%

-- Flow 1:

Average throughput: 55.88 Mbit/s

95th percentile per-packet one-way delay: 62.149 ms

Loss rate: 1.68%

-- Flow 2:

Average throughput: 46.54 Mbit/s

95th percentile per-packet one-way delay: 50.686 ms

Loss rate: 3.01%

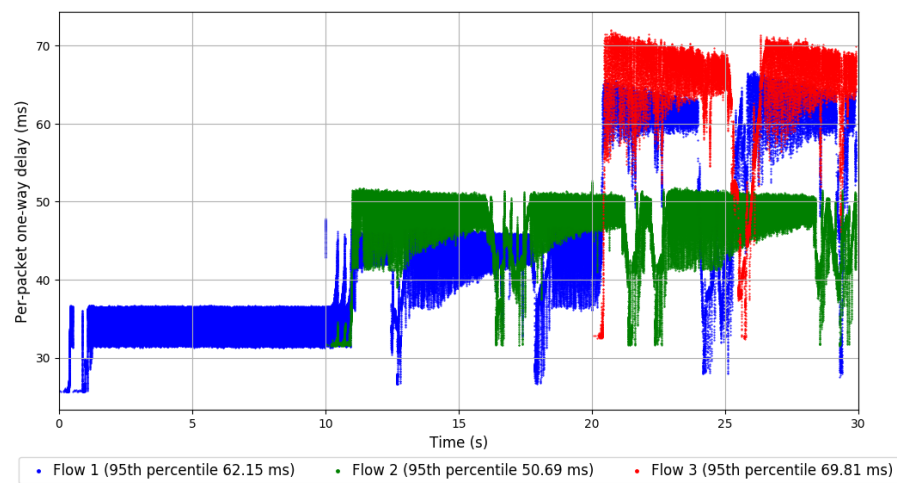
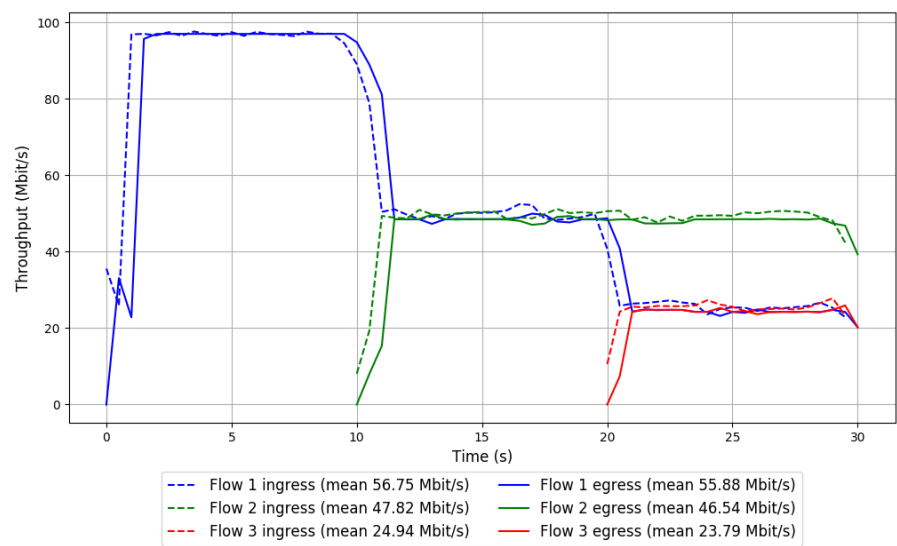
-- Flow 3:

Average throughput: 23.79 Mbit/s

95th percentile per-packet one-way delay: 69.813 ms

Loss rate: 5.36%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-05-25 13:53:12

End at: 2018-05-25 13:53:42

Local clock offset: 0.571 ms

Remote clock offset: 1.031 ms

Below is generated by plot.py at 2018-05-25 15:48:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.29 Mbit/s

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

Loss rate: 2.33%

-- Flow 1:

Average throughput: 55.57 Mbit/s

95th percentile per-packet one-way delay: 68.909 ms

Loss rate: 1.62%

-- Flow 2:

Average throughput: 46.75 Mbit/s

95th percentile per-packet one-way delay: 52.151 ms

Loss rate: 3.16%

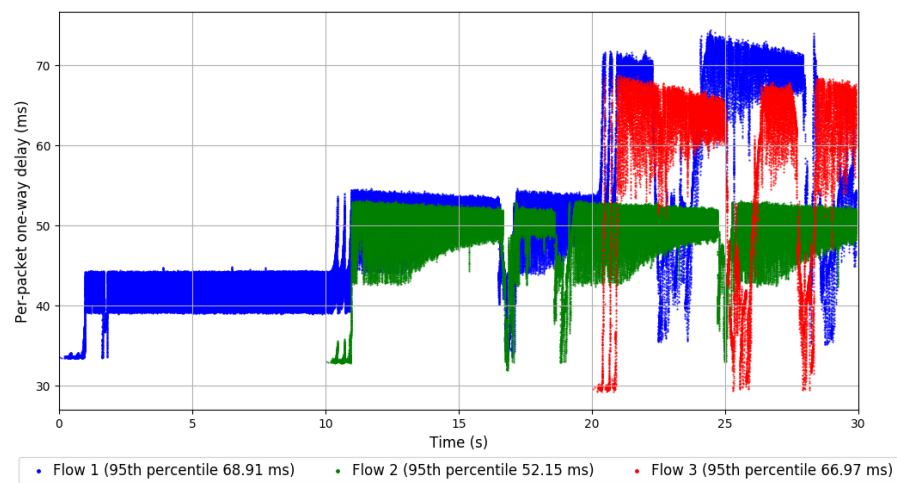
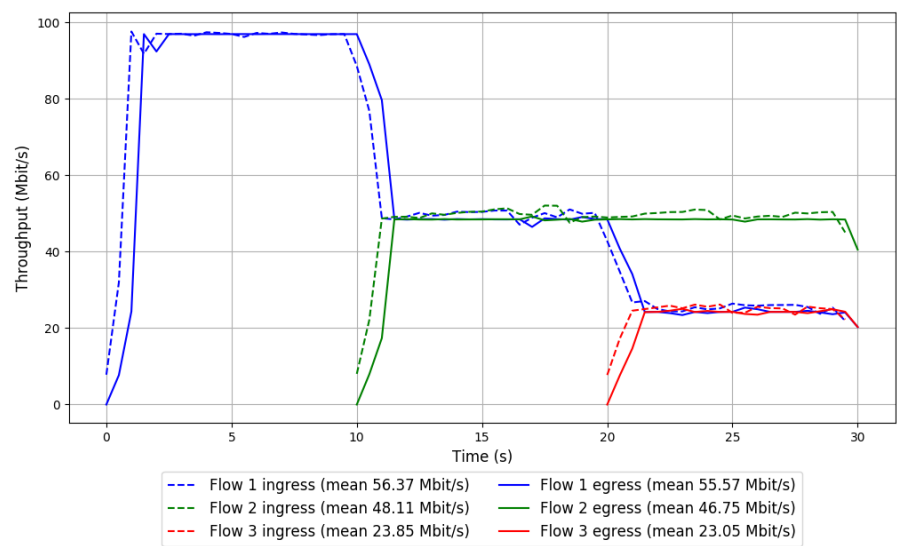
-- Flow 3:

Average throughput: 23.05 Mbit/s

95th percentile per-packet one-way delay: 66.974 ms

Loss rate: 4.05%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-05-25 14:14:29

End at: 2018-05-25 14:14:59

Local clock offset: 0.229 ms

Remote clock offset: 3.169 ms

Below is generated by plot.py at 2018-05-25 15:48:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.82 Mbit/s

95th percentile per-packet one-way delay: 63.941 ms

Loss rate: 2.31%

-- Flow 1:

Average throughput: 56.38 Mbit/s

95th percentile per-packet one-way delay: 66.287 ms

Loss rate: 1.57%

-- Flow 2:

Average throughput: 35.97 Mbit/s

95th percentile per-packet one-way delay: 63.209 ms

Loss rate: 3.41%

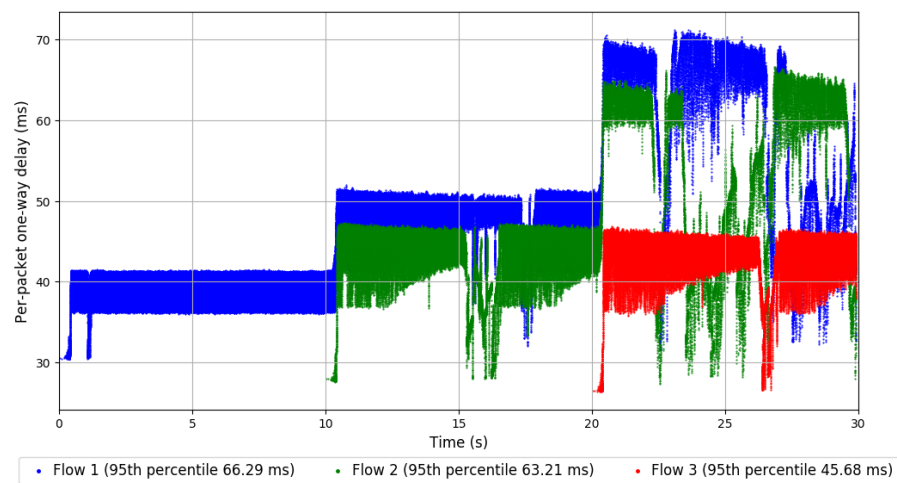
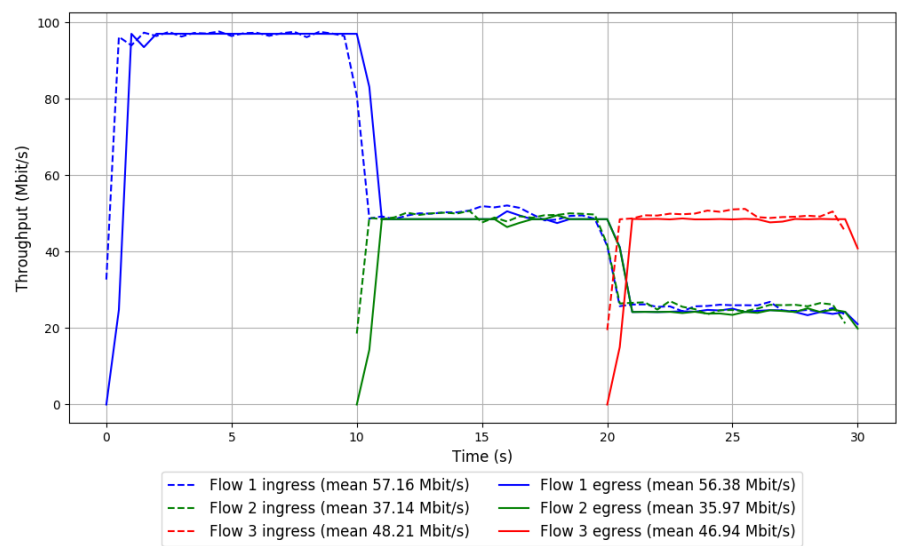
-- Flow 3:

Average throughput: 46.94 Mbit/s

95th percentile per-packet one-way delay: 45.684 ms

Loss rate: 3.28%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-05-25 14:35:44

End at: 2018-05-25 14:36:14

Local clock offset: 0.132 ms

Remote clock offset: 2.979 ms

Below is generated by plot.py at 2018-05-25 15:48:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.31 Mbit/s

95th percentile per-packet one-way delay: 67.781 ms

Loss rate: 2.38%

-- Flow 1:

Average throughput: 55.79 Mbit/s

95th percentile per-packet one-way delay: 67.036 ms

Loss rate: 1.64%

-- Flow 2:

Average throughput: 35.52 Mbit/s

95th percentile per-packet one-way delay: 69.083 ms

Loss rate: 3.63%

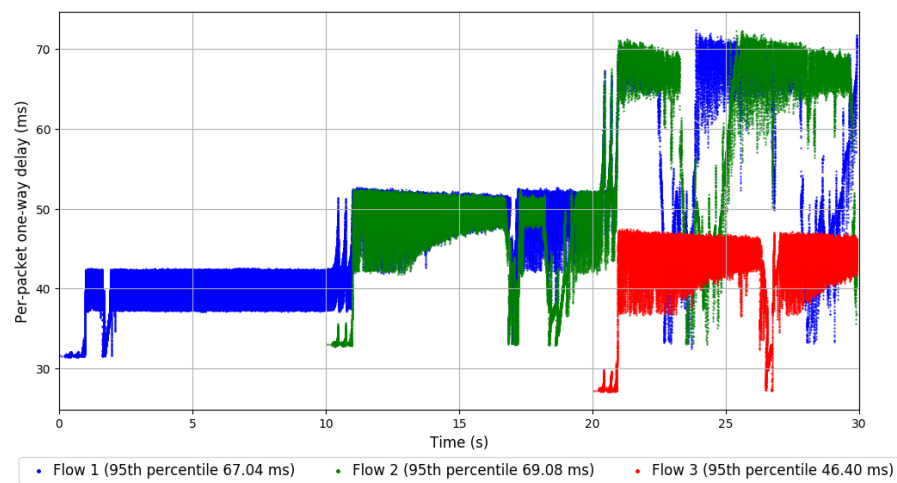
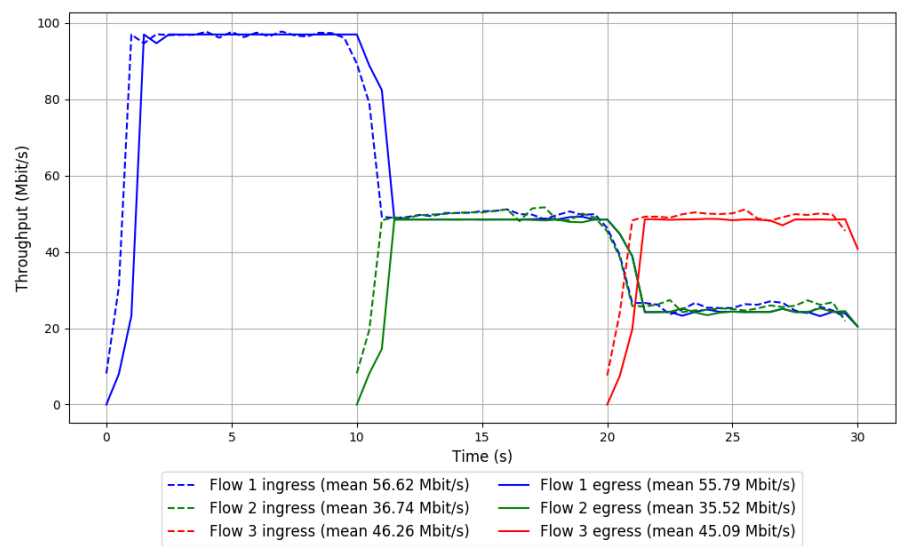
-- Flow 3:

Average throughput: 45.09 Mbit/s

95th percentile per-packet one-way delay: 46.404 ms

Loss rate: 3.14%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-05-25 14:57:01

End at: 2018-05-25 14:57:31

Local clock offset: 0.143 ms

Remote clock offset: 2.857 ms

Below is generated by plot.py at 2018-05-25 15:49:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.35 Mbit/s

95th percentile per-packet one-way delay: 58.409 ms

Loss rate: 2.36%

-- Flow 1:

Average throughput: 58.18 Mbit/s

95th percentile per-packet one-way delay: 57.552 ms

Loss rate: 1.53%

-- Flow 2:

Average throughput: 39.26 Mbit/s

95th percentile per-packet one-way delay: 54.397 ms

Loss rate: 3.60%

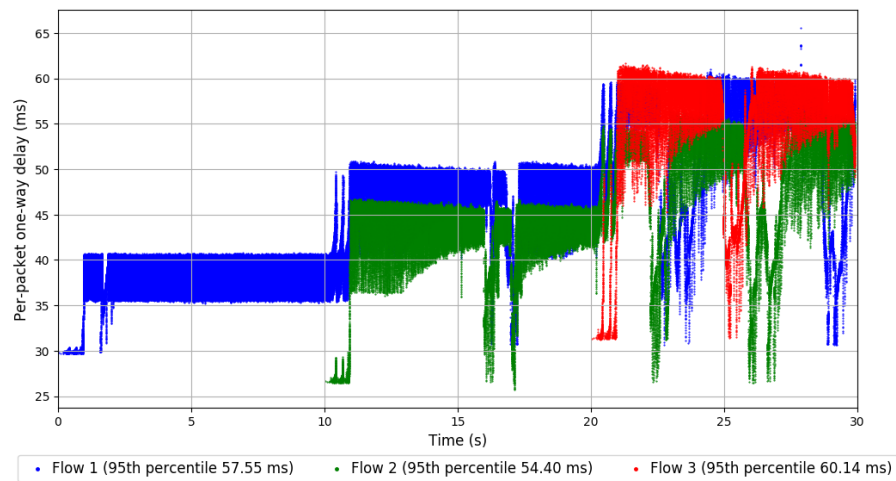
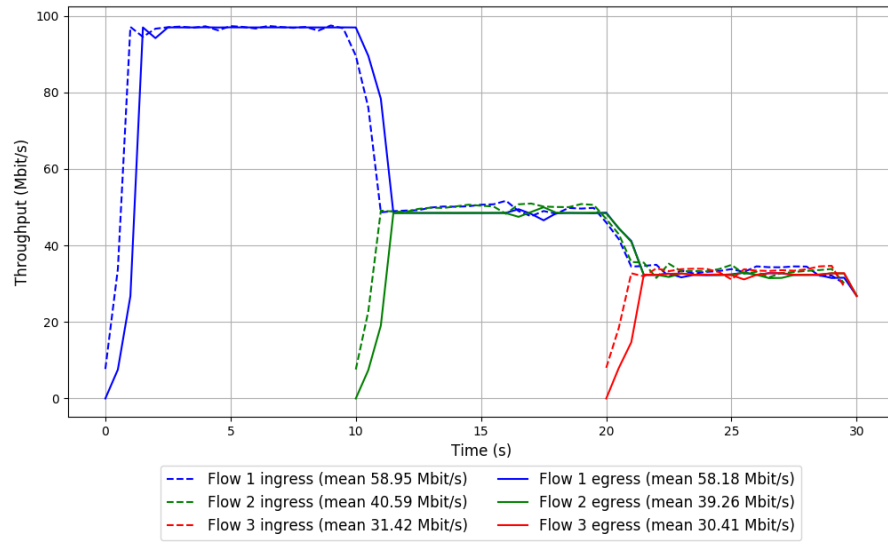
-- Flow 3:

Average throughput: 30.41 Mbit/s

95th percentile per-packet one-way delay: 60.141 ms

Loss rate: 3.81%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-05-25 15:18:22

End at: 2018-05-25 15:18:52

Local clock offset: 0.513 ms

Remote clock offset: 2.564 ms

Below is generated by plot.py at 2018-05-25 15:49:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.61 Mbit/s

95th percentile per-packet one-way delay: 57.392 ms

Loss rate: 2.44%

-- Flow 1:

Average throughput: 57.34 Mbit/s

95th percentile per-packet one-way delay: 54.413 ms

Loss rate: 1.42%

-- Flow 2:

Average throughput: 38.86 Mbit/s

95th percentile per-packet one-way delay: 59.289 ms

Loss rate: 3.74%

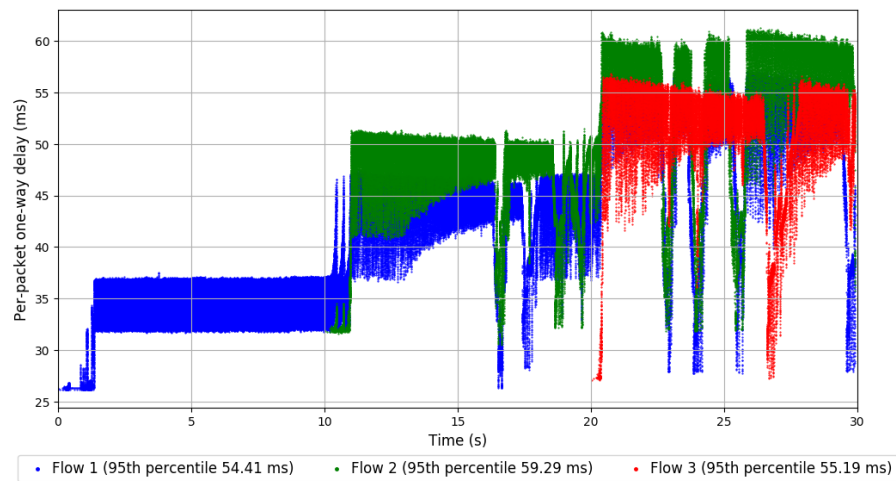
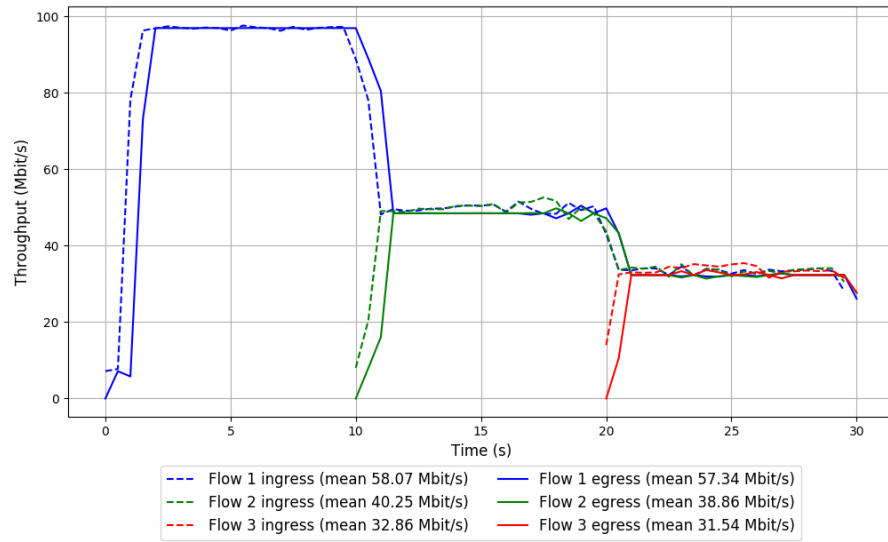
-- Flow 3:

Average throughput: 31.54 Mbit/s

95th percentile per-packet one-way delay: 55.188 ms

Loss rate: 4.71%

Run 10: Report of FillP — Data Link

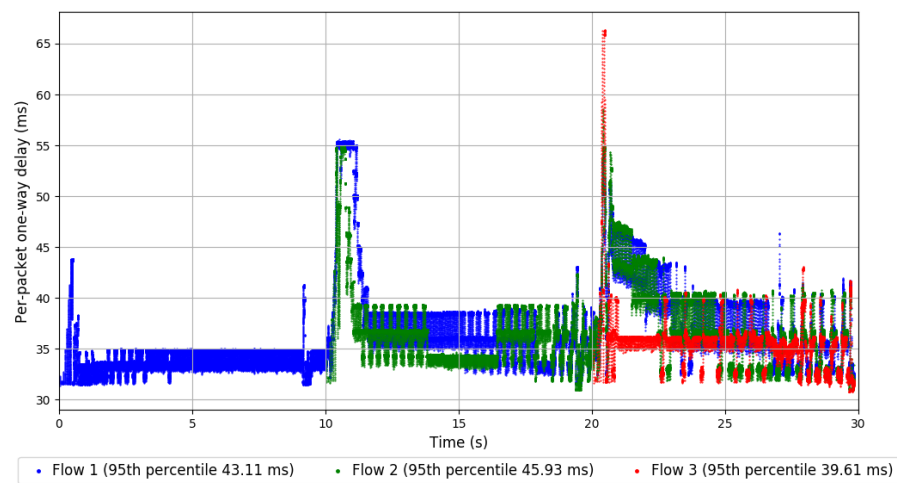
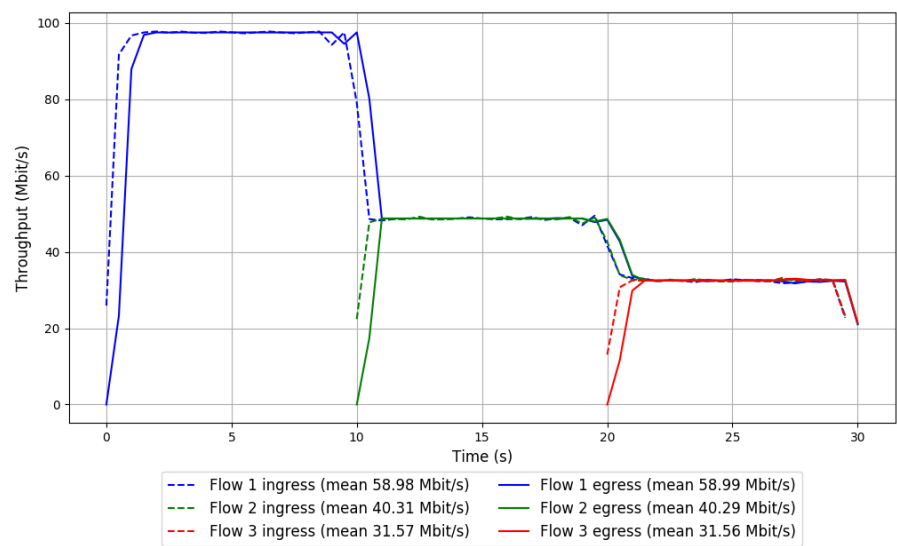


```
Run 1: Statistics of Indigo

Start at: 2018-05-25 12:09:16
End at: 2018-05-25 12:09:46
Local clock offset: 0.372 ms
Remote clock offset: 2.959 ms

# Below is generated by plot.py at 2018-05-25 15:49:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.09 Mbit/s
95th percentile per-packet one-way delay: 43.431 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 58.99 Mbit/s
95th percentile per-packet one-way delay: 43.106 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 40.29 Mbit/s
95th percentile per-packet one-way delay: 45.934 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 31.56 Mbit/s
95th percentile per-packet one-way delay: 39.611 ms
Loss rate: 0.65%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-05-25 12:30:32

End at: 2018-05-25 12:31:02

Local clock offset: 0.256 ms

Remote clock offset: 1.46 ms

Below is generated by plot.py at 2018-05-25 15:49:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.02 Mbit/s

95th percentile per-packet one-way delay: 43.064 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 55.41 Mbit/s

95th percentile per-packet one-way delay: 43.082 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 36.48 Mbit/s

95th percentile per-packet one-way delay: 47.839 ms

Loss rate: 0.34%

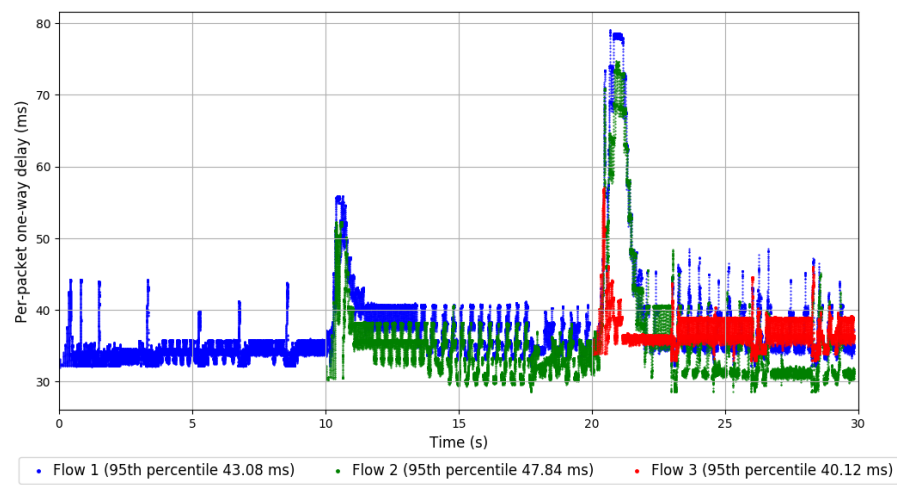
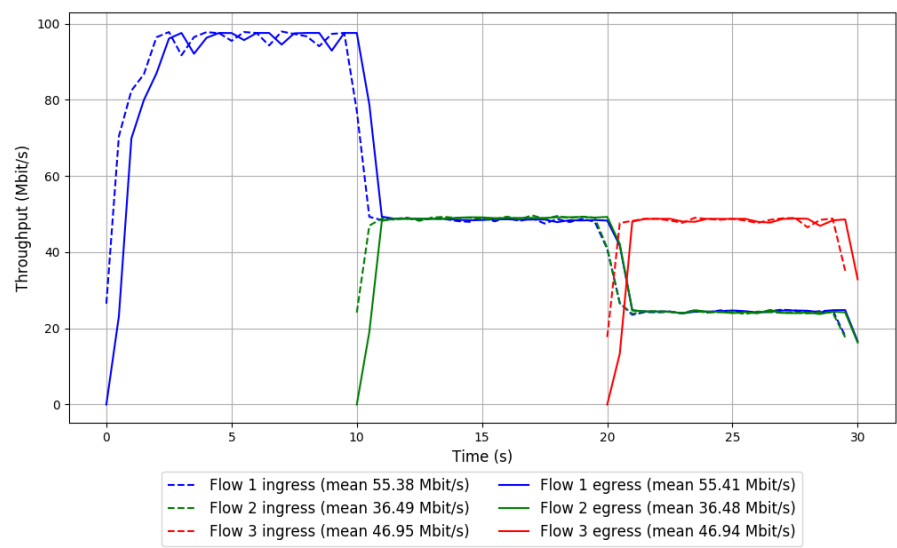
-- Flow 3:

Average throughput: 46.94 Mbit/s

95th percentile per-packet one-way delay: 40.119 ms

Loss rate: 0.65%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-05-25 12:51:52

End at: 2018-05-25 12:52:22

Local clock offset: 0.076 ms

Remote clock offset: 3.338 ms

Below is generated by plot.py at 2018-05-25 15:49:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.85 Mbit/s

95th percentile per-packet one-way delay: 44.677 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 56.25 Mbit/s

95th percentile per-packet one-way delay: 44.882 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 36.49 Mbit/s

95th percentile per-packet one-way delay: 49.134 ms

Loss rate: 0.32%

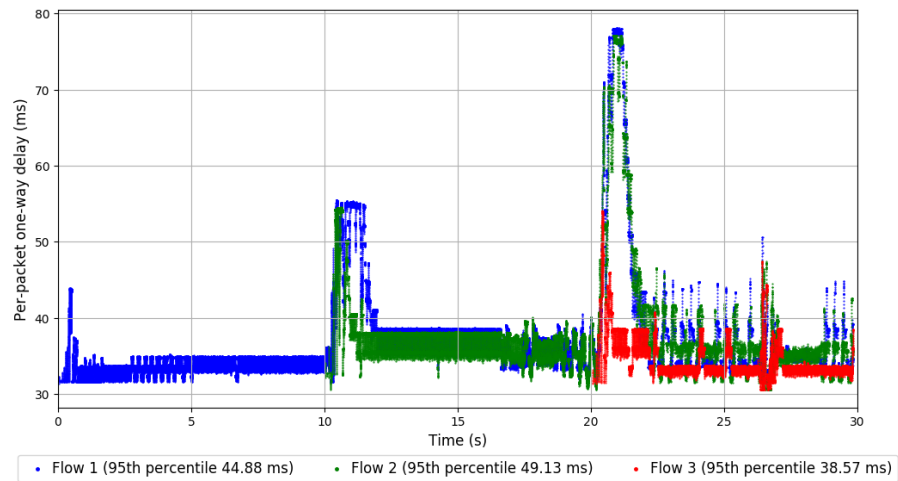
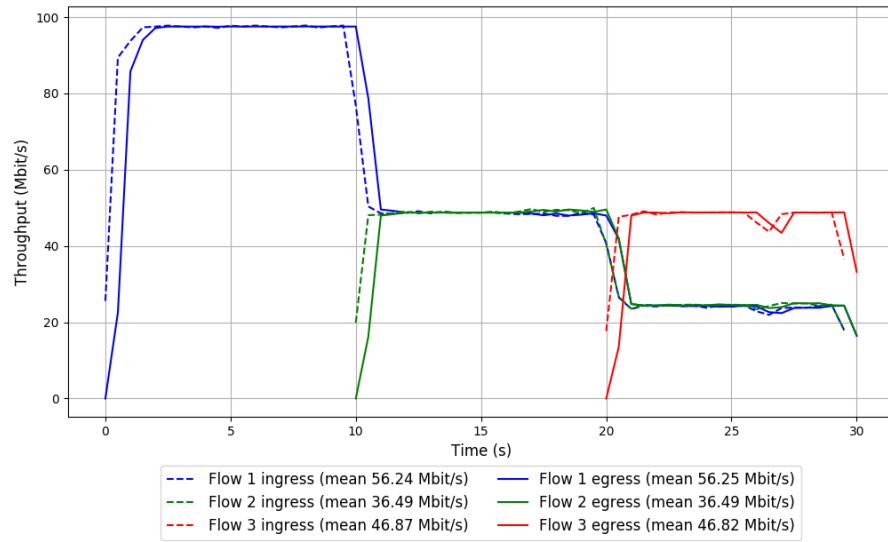
-- Flow 3:

Average throughput: 46.82 Mbit/s

95th percentile per-packet one-way delay: 38.569 ms

Loss rate: 0.73%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-05-25 13:13:13

End at: 2018-05-25 13:13:43

Local clock offset: 0.275 ms

Remote clock offset: 1.462 ms

Below is generated by plot.py at 2018-05-25 15:49:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.59 Mbit/s

95th percentile per-packet one-way delay: 42.819 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 55.95 Mbit/s

95th percentile per-packet one-way delay: 38.271 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 36.36 Mbit/s

95th percentile per-packet one-way delay: 50.225 ms

Loss rate: 0.32%

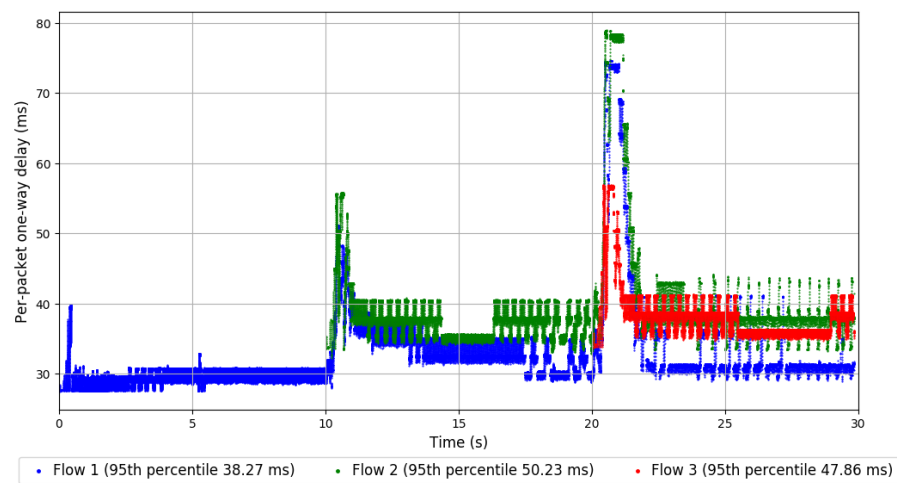
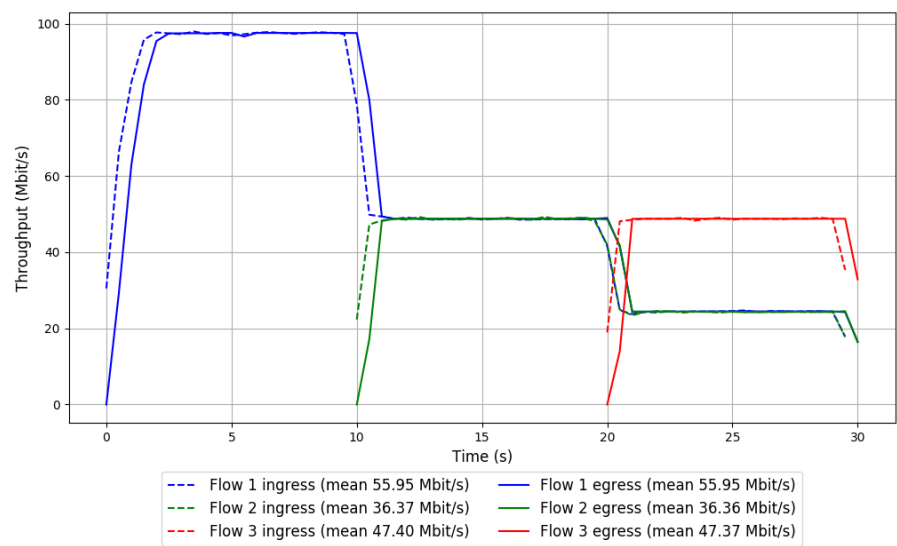
-- Flow 3:

Average throughput: 47.37 Mbit/s

95th percentile per-packet one-way delay: 47.862 ms

Loss rate: 0.70%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-05-25 13:34:35

End at: 2018-05-25 13:35:05

Local clock offset: 0.487 ms

Remote clock offset: 3.839 ms

Below is generated by plot.py at 2018-05-25 15:49:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.97 Mbit/s

95th percentile per-packet one-way delay: 35.781 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 56.41 Mbit/s

95th percentile per-packet one-way delay: 36.521 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 47.99 Mbit/s

95th percentile per-packet one-way delay: 33.712 ms

Loss rate: 0.30%

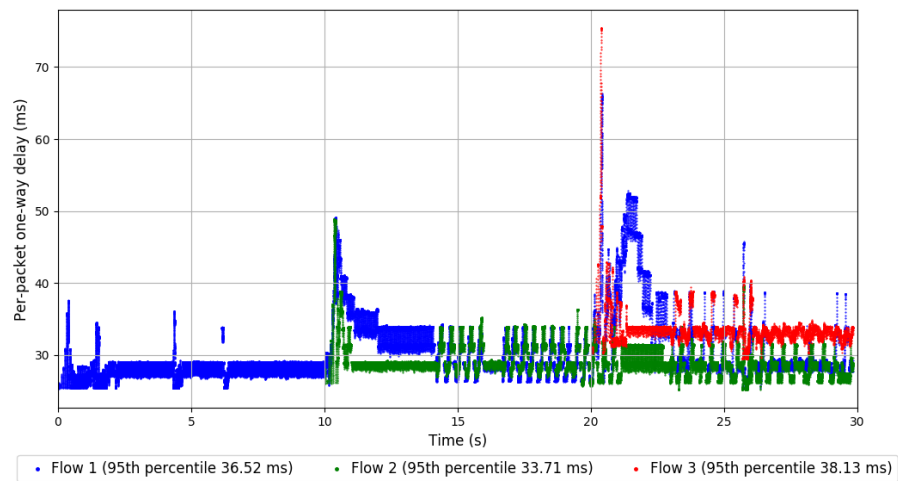
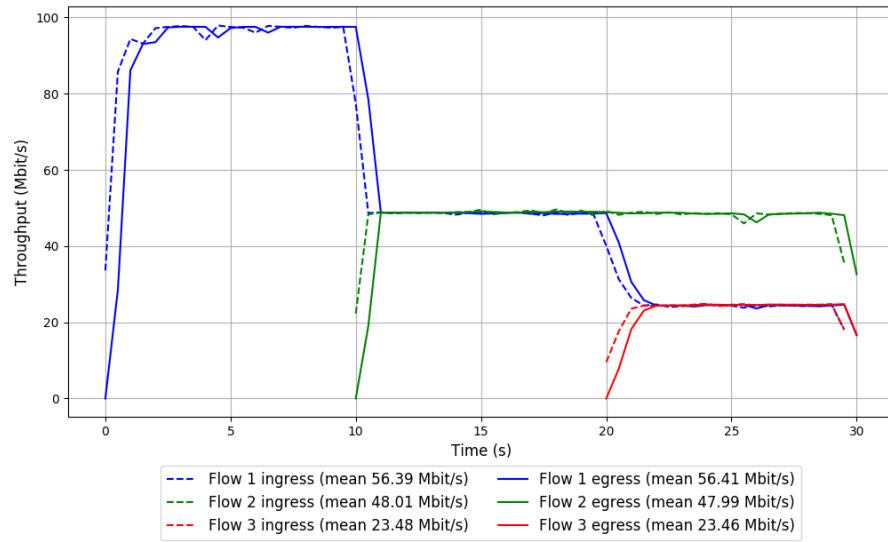
-- Flow 3:

Average throughput: 23.46 Mbit/s

95th percentile per-packet one-way delay: 38.131 ms

Loss rate: 0.69%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-05-25 13:55:50

End at: 2018-05-25 13:56:20

Local clock offset: 0.644 ms

Remote clock offset: 3.163 ms

Below is generated by plot.py at 2018-05-25 15:49:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.04 Mbit/s

95th percentile per-packet one-way delay: 43.055 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 56.42 Mbit/s

95th percentile per-packet one-way delay: 44.765 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 36.37 Mbit/s

95th percentile per-packet one-way delay: 44.162 ms

Loss rate: 0.34%

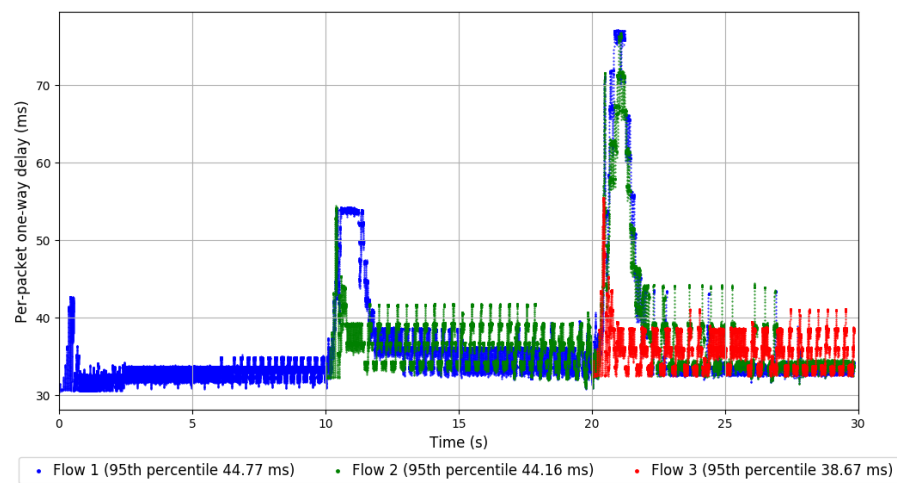
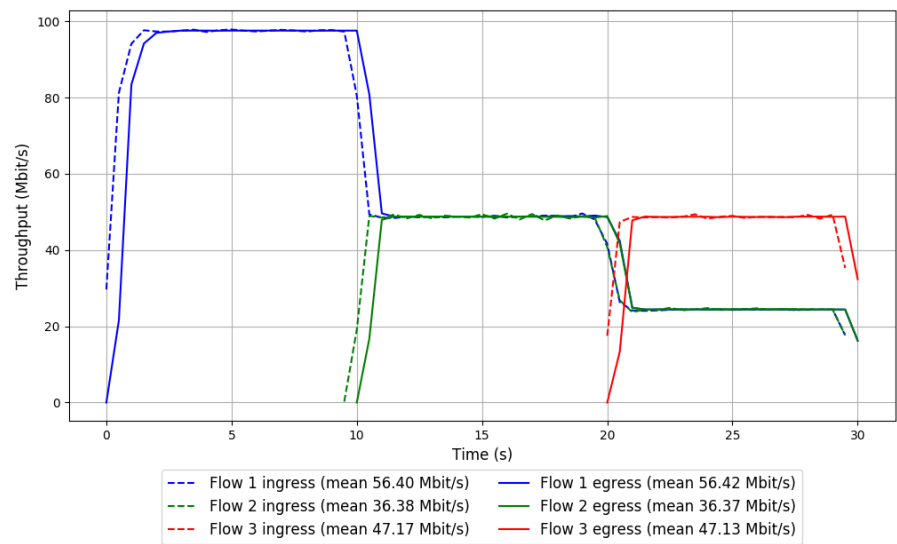
-- Flow 3:

Average throughput: 47.13 Mbit/s

95th percentile per-packet one-way delay: 38.672 ms

Loss rate: 0.72%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-05-25 14:17:06

End at: 2018-05-25 14:17:36

Local clock offset: 0.229 ms

Remote clock offset: 0.93 ms

Below is generated by plot.py at 2018-05-25 15:50:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.30 Mbit/s

95th percentile per-packet one-way delay: 43.557 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 59.34 Mbit/s

95th percentile per-packet one-way delay: 41.677 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 40.06 Mbit/s

95th percentile per-packet one-way delay: 45.484 ms

Loss rate: 0.31%

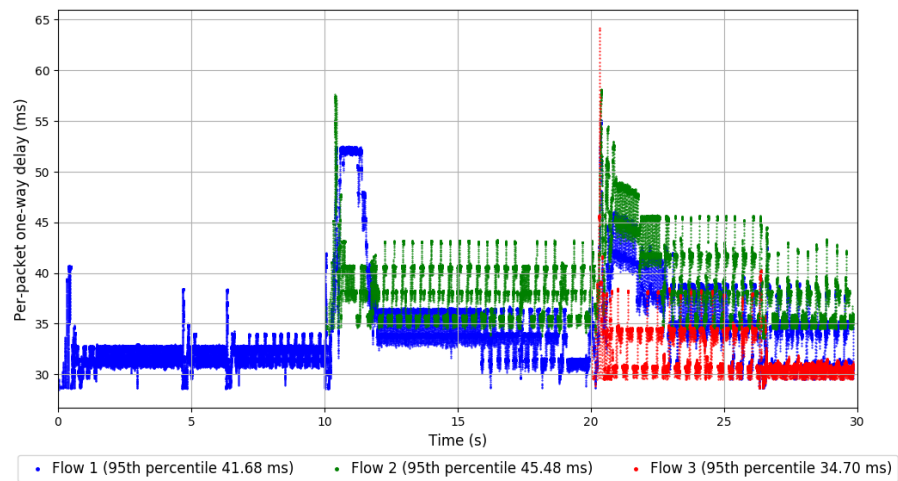
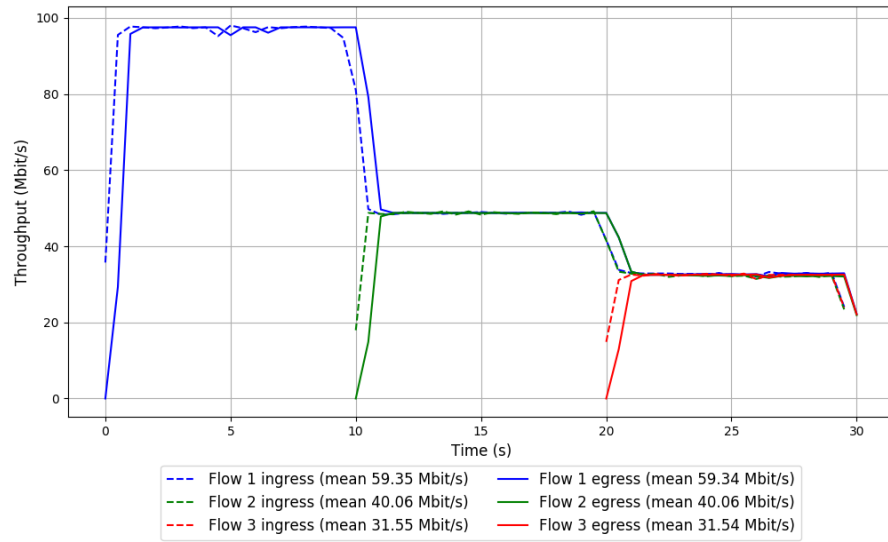
-- Flow 3:

Average throughput: 31.54 Mbit/s

95th percentile per-packet one-way delay: 34.705 ms

Loss rate: 0.61%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-05-25 14:38:22

End at: 2018-05-25 14:38:52

Local clock offset: 0.139 ms

Remote clock offset: 0.96 ms

Below is generated by plot.py at 2018-05-25 15:50:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.12 Mbit/s

95th percentile per-packet one-way delay: 41.315 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 56.61 Mbit/s

95th percentile per-packet one-way delay: 48.148 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 47.70 Mbit/s

95th percentile per-packet one-way delay: 35.370 ms

Loss rate: 0.30%

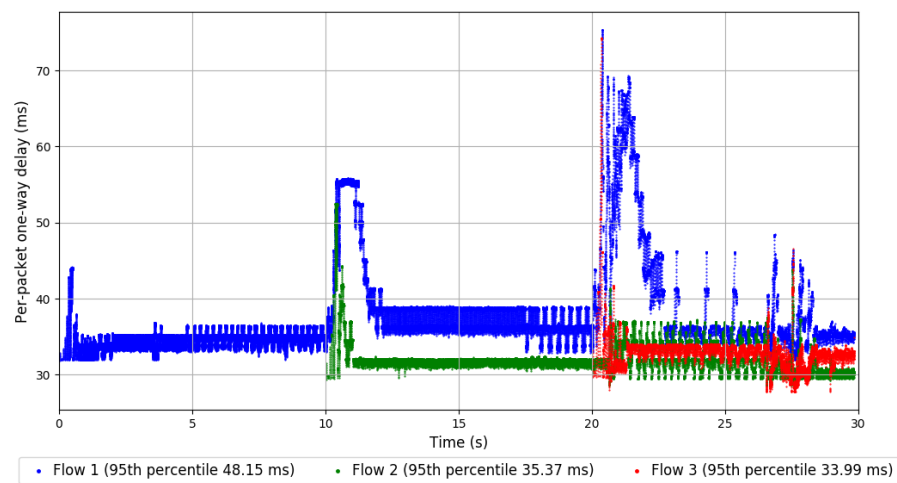
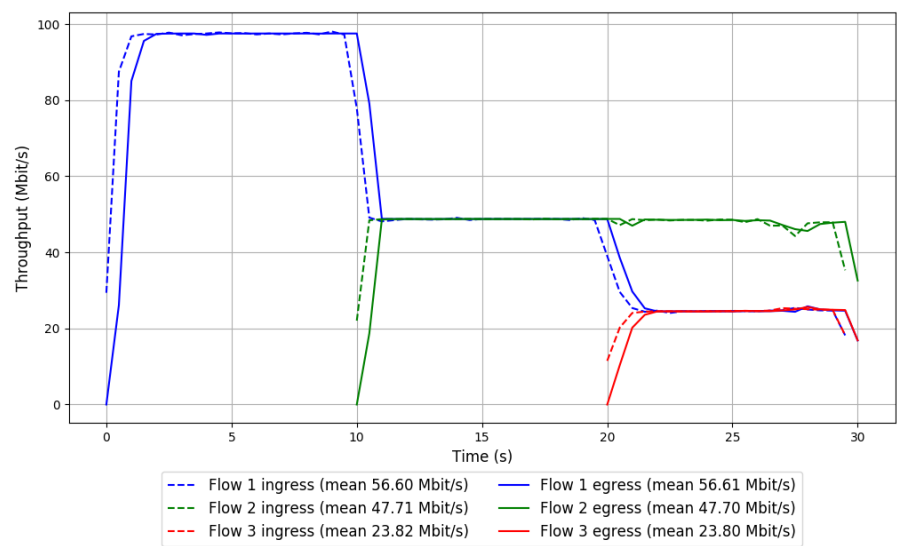
-- Flow 3:

Average throughput: 23.80 Mbit/s

95th percentile per-packet one-way delay: 33.993 ms

Loss rate: 0.63%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-05-25 14:59:39

End at: 2018-05-25 15:00:09

Local clock offset: 0.262 ms

Remote clock offset: 0.719 ms

Below is generated by plot.py at 2018-05-25 15:50:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.02 Mbit/s

95th percentile per-packet one-way delay: 42.646 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 56.75 Mbit/s

95th percentile per-packet one-way delay: 47.343 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 47.15 Mbit/s

95th percentile per-packet one-way delay: 40.373 ms

Loss rate: 0.31%

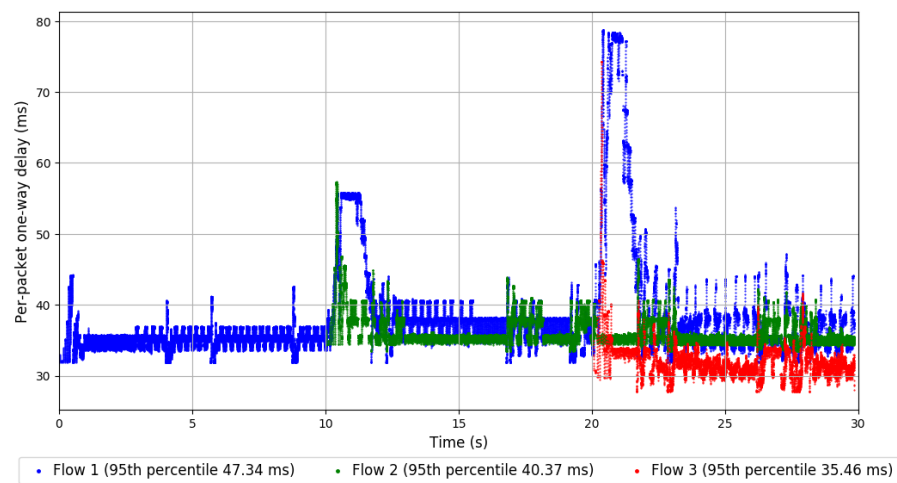
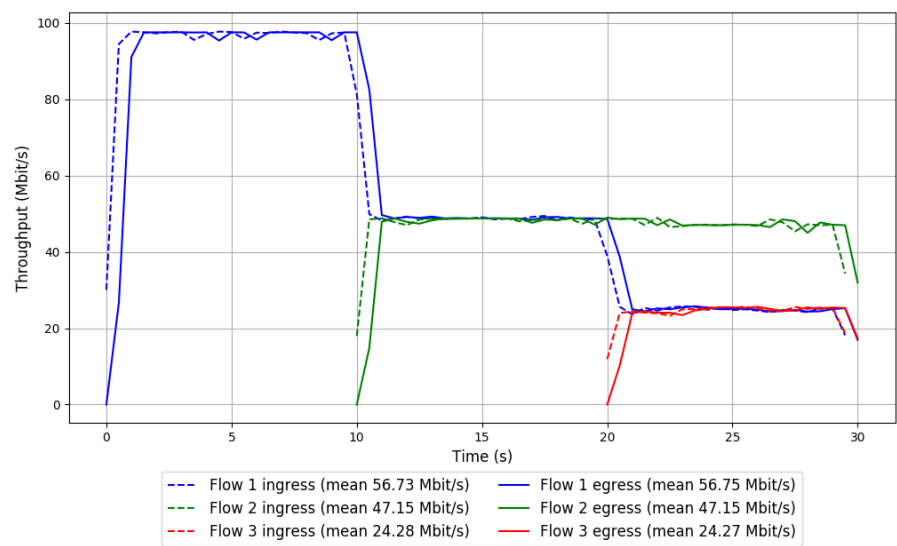
-- Flow 3:

Average throughput: 24.27 Mbit/s

95th percentile per-packet one-way delay: 35.461 ms

Loss rate: 0.62%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-05-25 15:21:01

End at: 2018-05-25 15:21:31

Local clock offset: 0.597 ms

Remote clock offset: 2.407 ms

Below is generated by plot.py at 2018-05-25 15:50:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.95 Mbit/s

95th percentile per-packet one-way delay: 37.173 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 55.54 Mbit/s

95th percentile per-packet one-way delay: 38.652 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 47.61 Mbit/s

95th percentile per-packet one-way delay: 32.276 ms

Loss rate: 0.29%

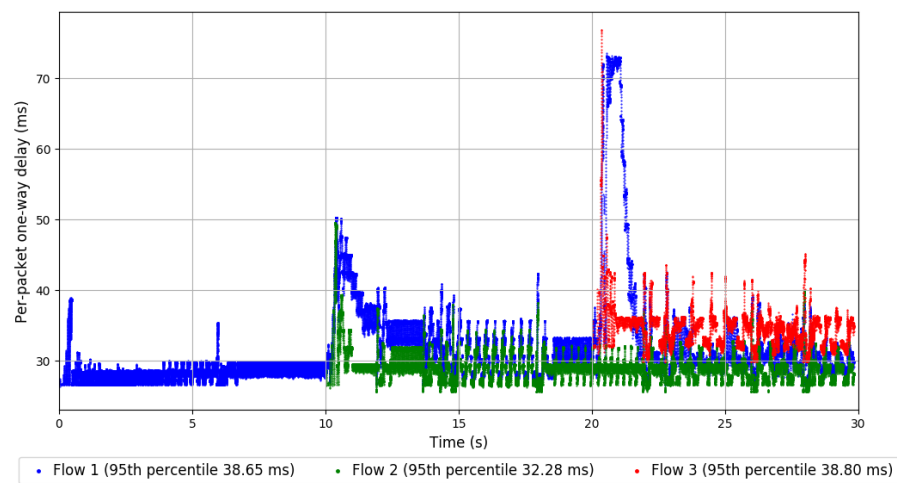
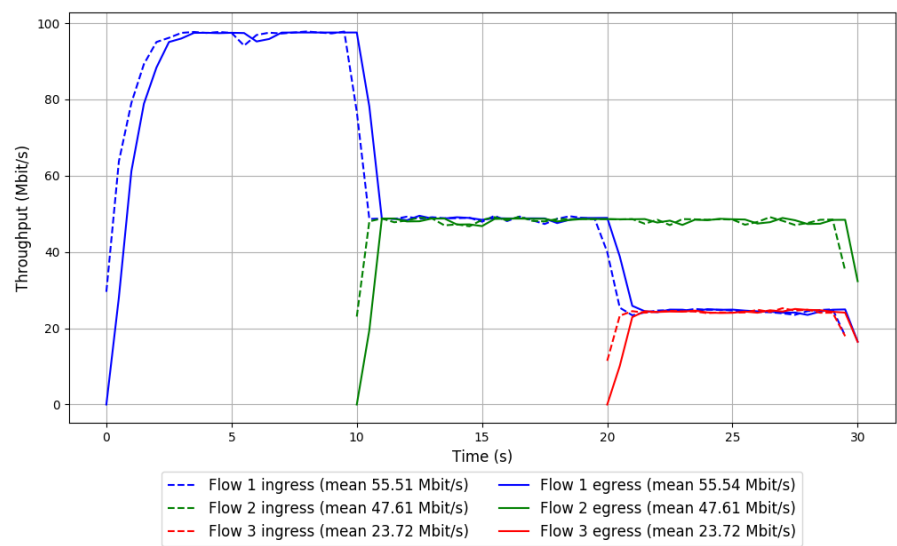
-- Flow 3:

Average throughput: 23.72 Mbit/s

95th percentile per-packet one-way delay: 38.798 ms

Loss rate: 0.64%

Run 10: Report of Indigo — Data Link

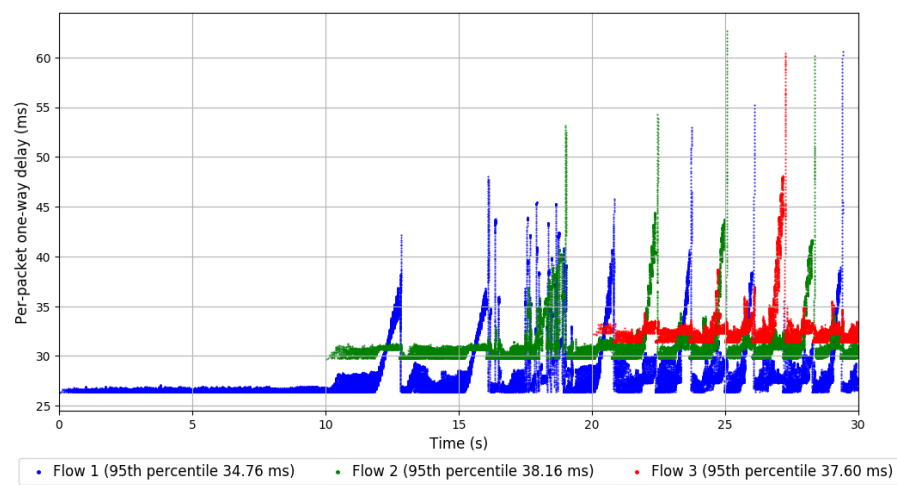
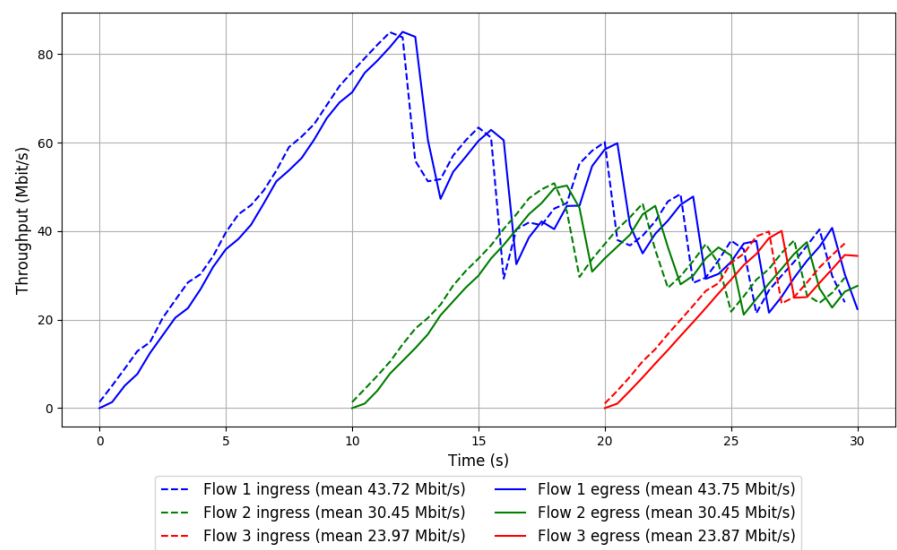


```
Run 1: Statistics of LEDBAT

Start at: 2018-05-25 12:18:35
End at: 2018-05-25 12:19:05
Local clock offset: 0.38 ms
Remote clock offset: 3.214 ms

# Below is generated by plot.py at 2018-05-25 15:50:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 71.92 Mbit/s
95th percentile per-packet one-way delay: 35.976 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 43.75 Mbit/s
95th percentile per-packet one-way delay: 34.761 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 30.45 Mbit/s
95th percentile per-packet one-way delay: 38.161 ms
Loss rate: 0.32%
-- Flow 3:
Average throughput: 23.87 Mbit/s
95th percentile per-packet one-way delay: 37.604 ms
Loss rate: 1.02%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-05-25 12:39:54

End at: 2018-05-25 12:40:24

Local clock offset: 0.126 ms

Remote clock offset: 4.064 ms

Below is generated by plot.py at 2018-05-25 15:50:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.95 Mbit/s

95th percentile per-packet one-way delay: 37.746 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 38.39 Mbit/s

95th percentile per-packet one-way delay: 39.148 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 34.39 Mbit/s

95th percentile per-packet one-way delay: 37.097 ms

Loss rate: 0.38%

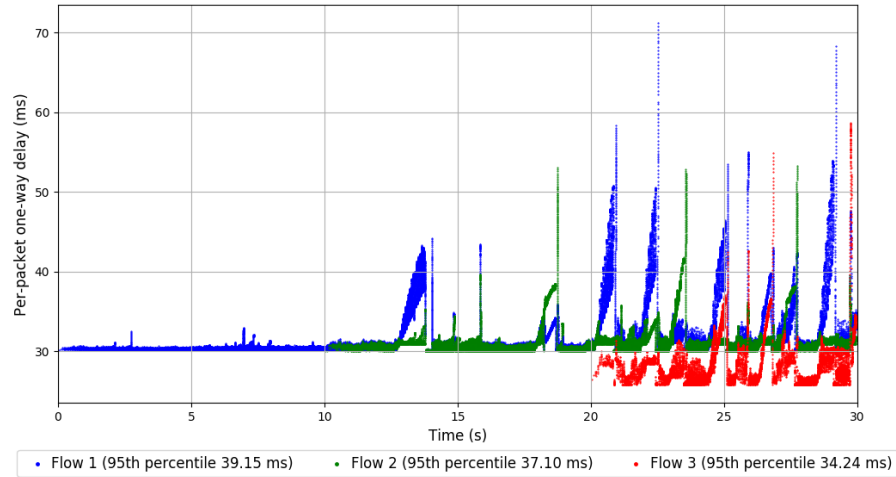
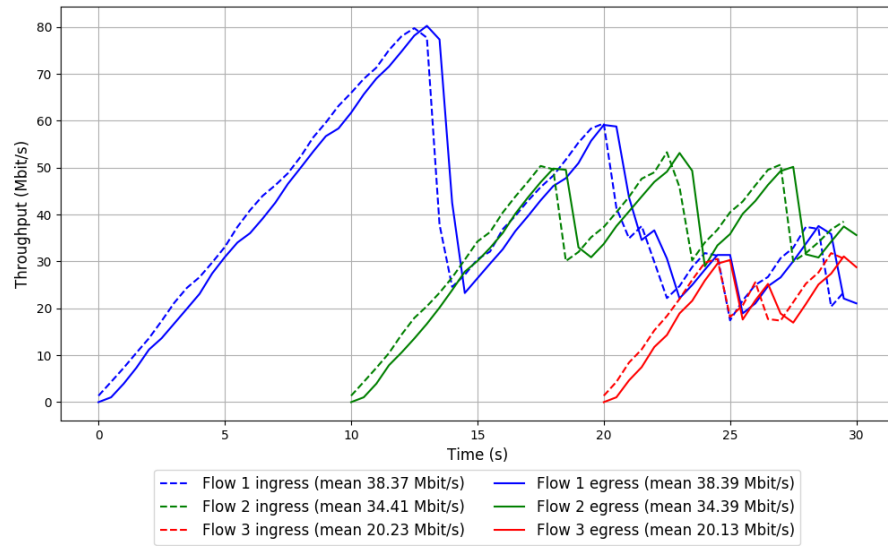
-- Flow 3:

Average throughput: 20.13 Mbit/s

95th percentile per-packet one-way delay: 34.239 ms

Loss rate: 1.07%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-05-25 13:01:14

End at: 2018-05-25 13:01:44

Local clock offset: 0.258 ms

Remote clock offset: 1.465 ms

Below is generated by plot.py at 2018-05-25 15:50:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 70.02 Mbit/s

95th percentile per-packet one-way delay: 40.795 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 40.73 Mbit/s

95th percentile per-packet one-way delay: 41.120 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 31.46 Mbit/s

95th percentile per-packet one-way delay: 40.977 ms

Loss rate: 0.30%

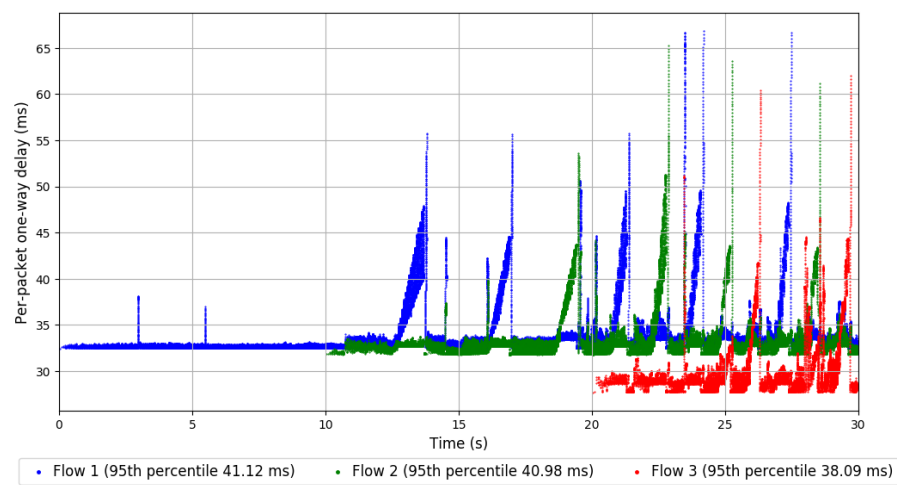
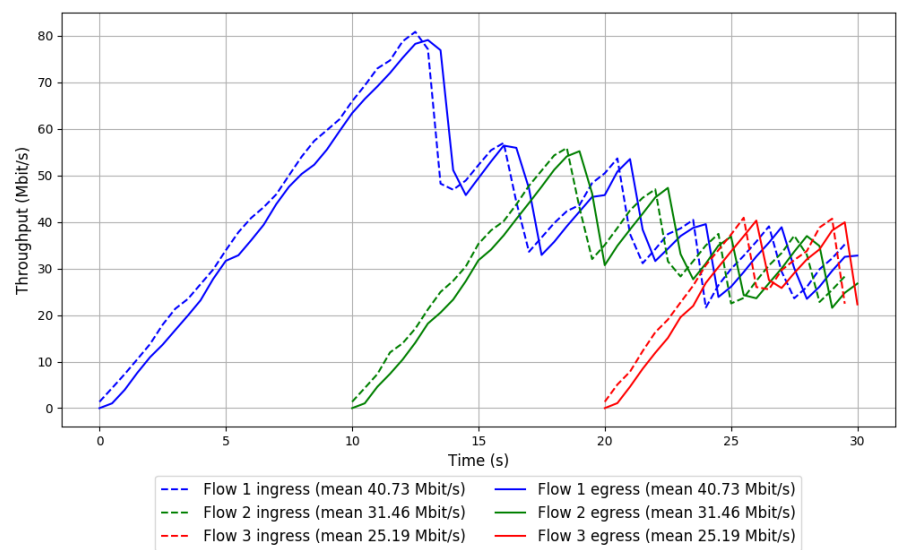
-- Flow 3:

Average throughput: 25.19 Mbit/s

95th percentile per-packet one-way delay: 38.088 ms

Loss rate: 0.58%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-05-25 13:22:36

End at: 2018-05-25 13:23:06

Local clock offset: 0.392 ms

Remote clock offset: 1.366 ms

Below is generated by plot.py at 2018-05-25 15:50:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 71.32 Mbit/s

95th percentile per-packet one-way delay: 39.175 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 43.72 Mbit/s

95th percentile per-packet one-way delay: 36.816 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 29.37 Mbit/s

95th percentile per-packet one-way delay: 41.813 ms

Loss rate: 0.32%

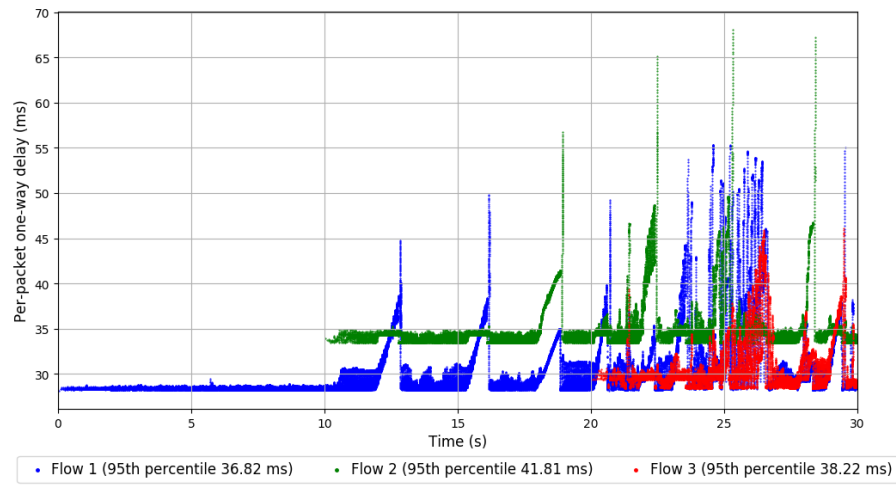
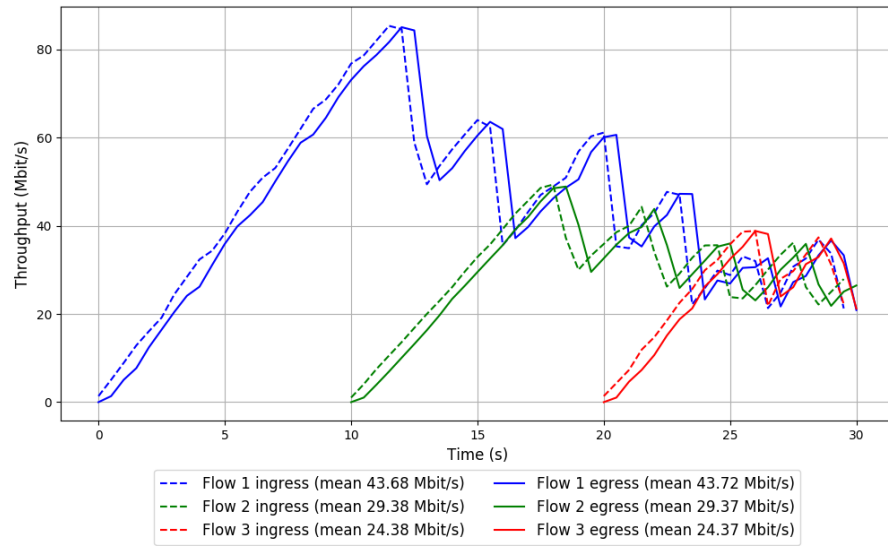
-- Flow 3:

Average throughput: 24.37 Mbit/s

95th percentile per-packet one-way delay: 38.220 ms

Loss rate: 0.60%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-05-25 13:43:55

End at: 2018-05-25 13:44:25

Local clock offset: 0.488 ms

Remote clock offset: 1.458 ms

Below is generated by plot.py at 2018-05-25 15:51:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 69.44 Mbit/s

95th percentile per-packet one-way delay: 39.926 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 43.73 Mbit/s

95th percentile per-packet one-way delay: 40.171 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 29.14 Mbit/s

95th percentile per-packet one-way delay: 35.925 ms

Loss rate: 0.23%

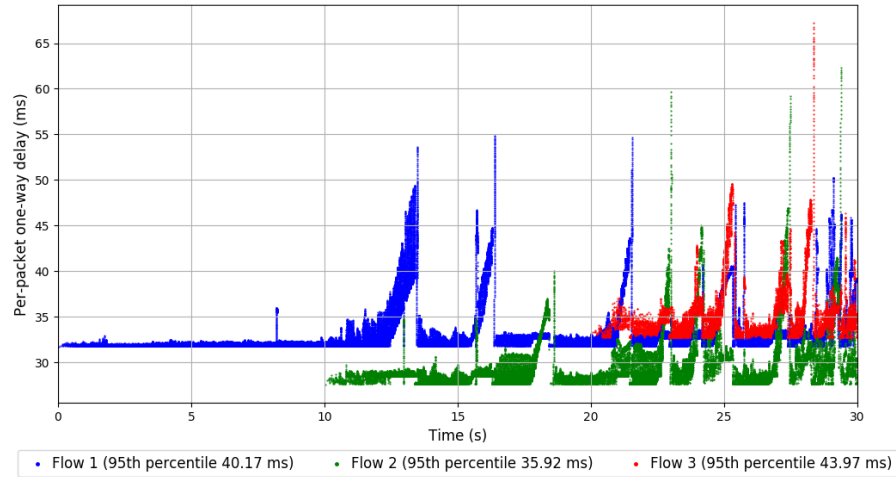
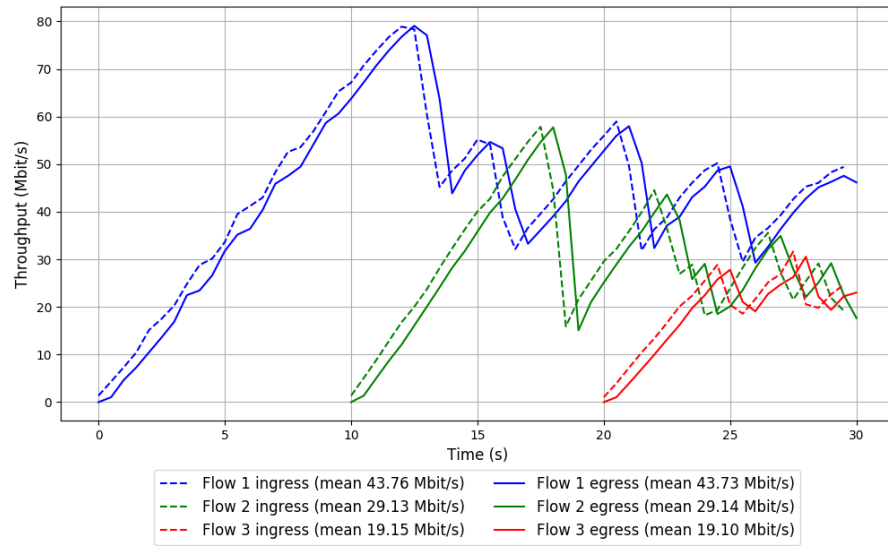
-- Flow 3:

Average throughput: 19.10 Mbit/s

95th percentile per-packet one-way delay: 43.973 ms

Loss rate: 0.90%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-05-25 14:05:10

End at: 2018-05-25 14:05:40

Local clock offset: 0.341 ms

Remote clock offset: 0.956 ms

Below is generated by plot.py at 2018-05-25 15:51:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 69.96 Mbit/s

95th percentile per-packet one-way delay: 42.349 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 39.07 Mbit/s

95th percentile per-packet one-way delay: 43.466 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 35.03 Mbit/s

95th percentile per-packet one-way delay: 38.812 ms

Loss rate: 0.28%

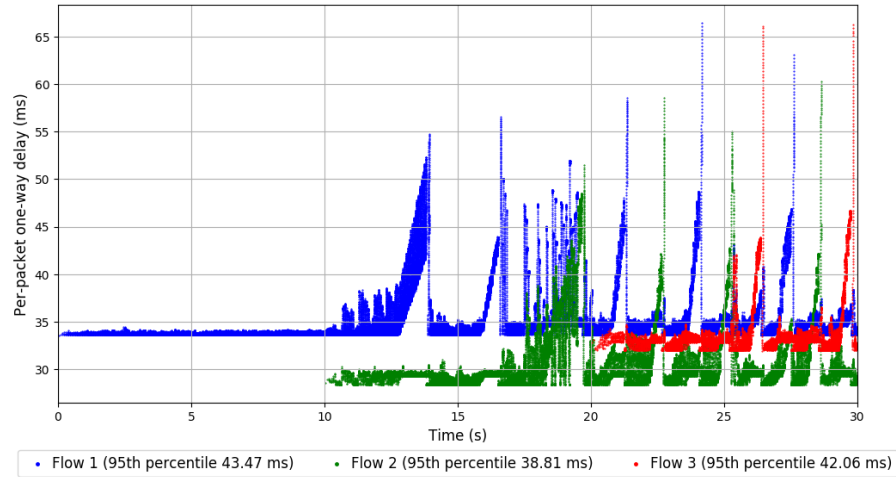
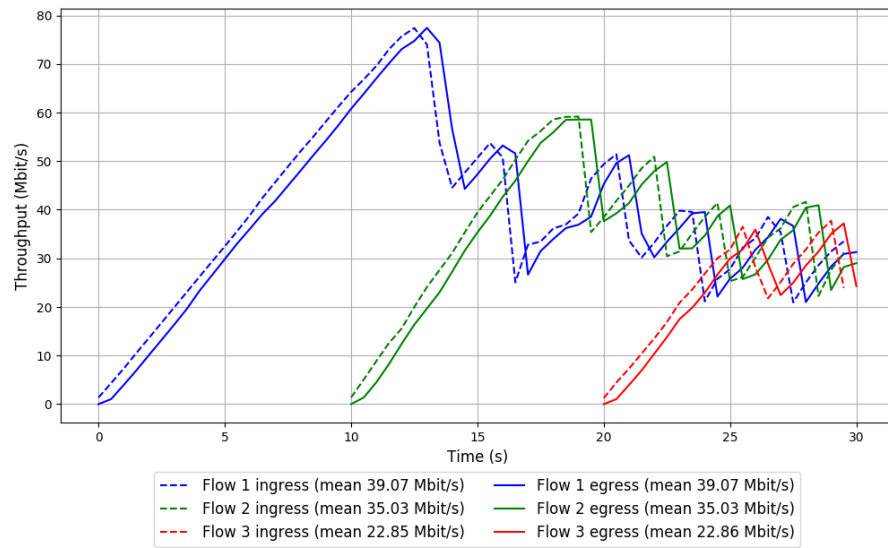
-- Flow 3:

Average throughput: 22.86 Mbit/s

95th percentile per-packet one-way delay: 42.057 ms

Loss rate: 0.59%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-05-25 14:26:25

End at: 2018-05-25 14:26:55

Local clock offset: 0.1 ms

Remote clock offset: 0.933 ms

Below is generated by plot.py at 2018-05-25 15:51:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.78 Mbit/s

95th percentile per-packet one-way delay: 38.701 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 46.75 Mbit/s

95th percentile per-packet one-way delay: 35.953 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 28.41 Mbit/s

95th percentile per-packet one-way delay: 44.149 ms

Loss rate: 0.21%

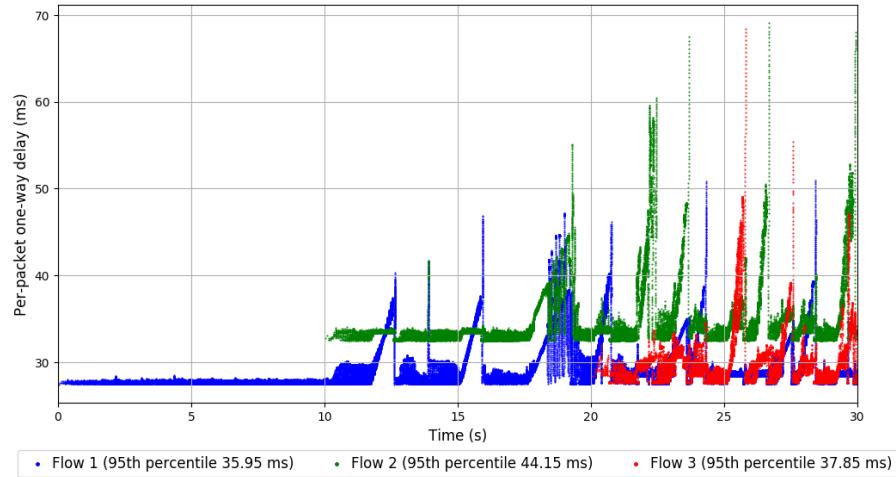
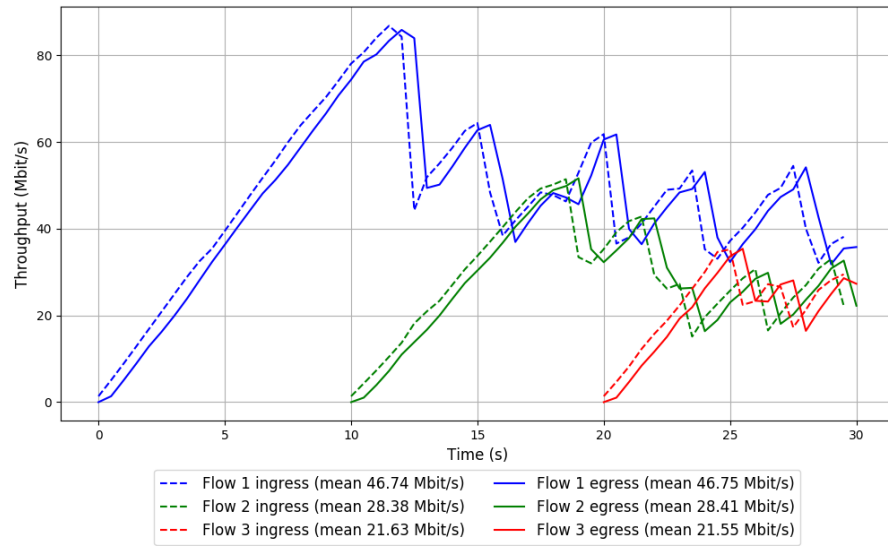
-- Flow 3:

Average throughput: 21.55 Mbit/s

95th percentile per-packet one-way delay: 37.852 ms

Loss rate: 0.91%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-05-25 14:47:43

End at: 2018-05-25 14:48:13

Local clock offset: 0.001 ms

Remote clock offset: 3.062 ms

Below is generated by plot.py at 2018-05-25 15:51:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 71.80 Mbit/s

95th percentile per-packet one-way delay: 34.414 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 45.17 Mbit/s

95th percentile per-packet one-way delay: 33.174 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 30.38 Mbit/s

95th percentile per-packet one-way delay: 37.105 ms

Loss rate: 0.30%

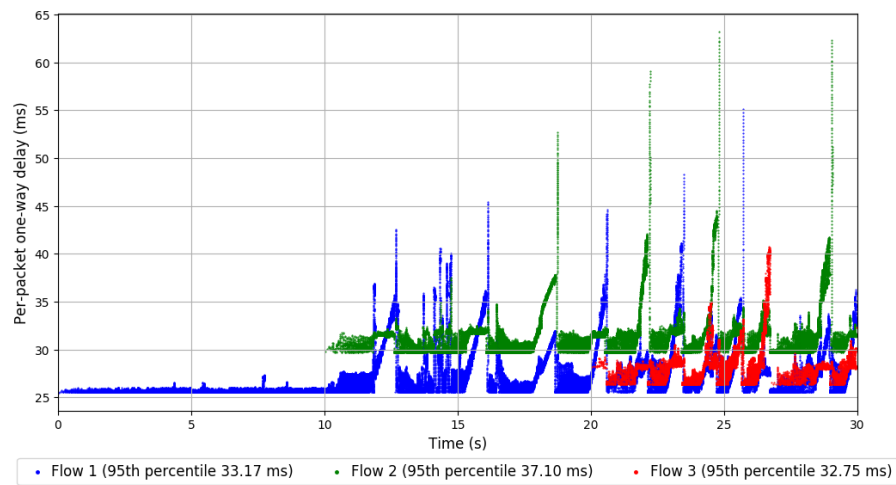
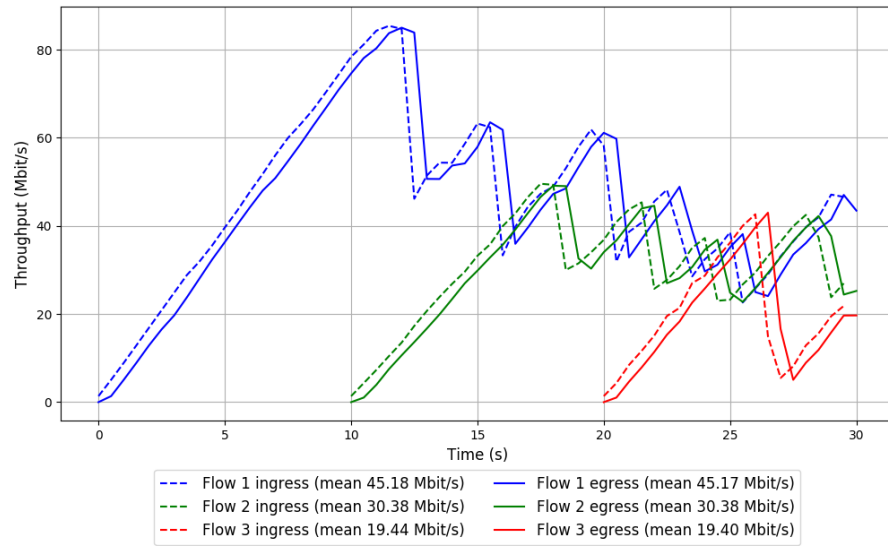
-- Flow 3:

Average throughput: 19.40 Mbit/s

95th percentile per-packet one-way delay: 32.748 ms

Loss rate: 0.77%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-05-25 15:09:01

End at: 2018-05-25 15:09:31

Local clock offset: 0.522 ms

Remote clock offset: 2.576 ms

Below is generated by plot.py at 2018-05-25 15:51:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.58 Mbit/s

95th percentile per-packet one-way delay: 36.618 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 42.58 Mbit/s

95th percentile per-packet one-way delay: 33.964 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 34.55 Mbit/s

95th percentile per-packet one-way delay: 38.432 ms

Loss rate: 0.36%

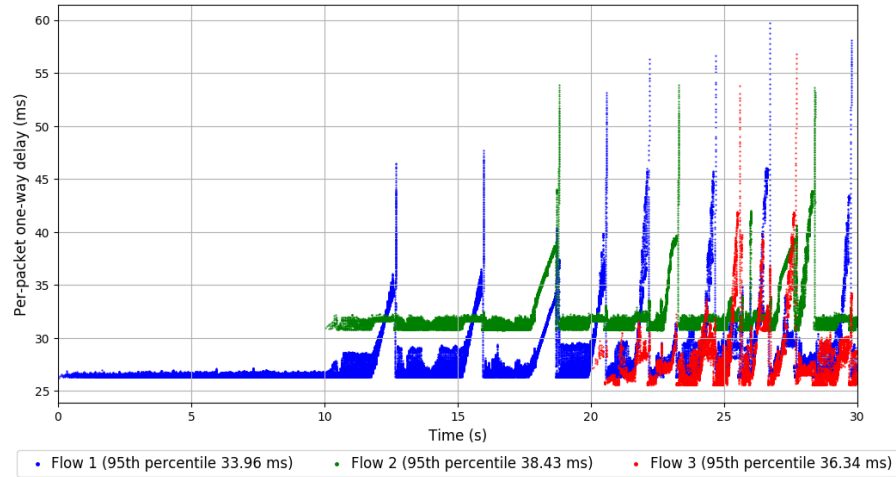
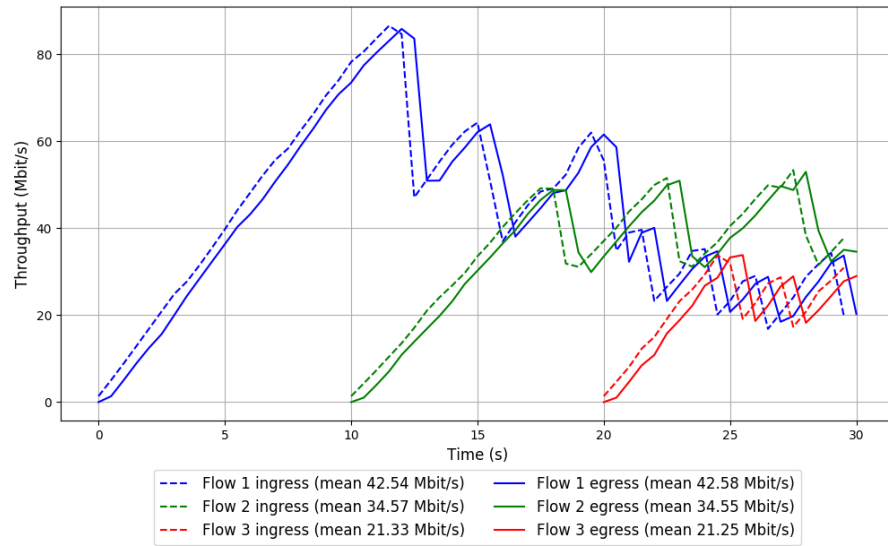
-- Flow 3:

Average throughput: 21.25 Mbit/s

95th percentile per-packet one-way delay: 36.342 ms

Loss rate: 0.91%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-05-25 15:30:23

End at: 2018-05-25 15:30:53

Local clock offset: 0.379 ms

Remote clock offset: 2.036 ms

Below is generated by plot.py at 2018-05-25 15:51:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 69.50 Mbit/s

95th percentile per-packet one-way delay: 41.095 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 43.04 Mbit/s

95th percentile per-packet one-way delay: 41.263 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 29.62 Mbit/s

95th percentile per-packet one-way delay: 40.856 ms

Loss rate: 0.35%

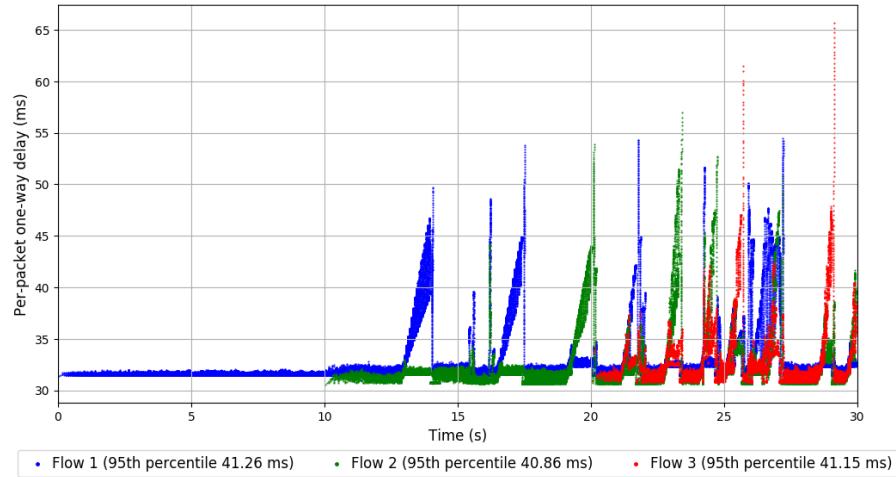
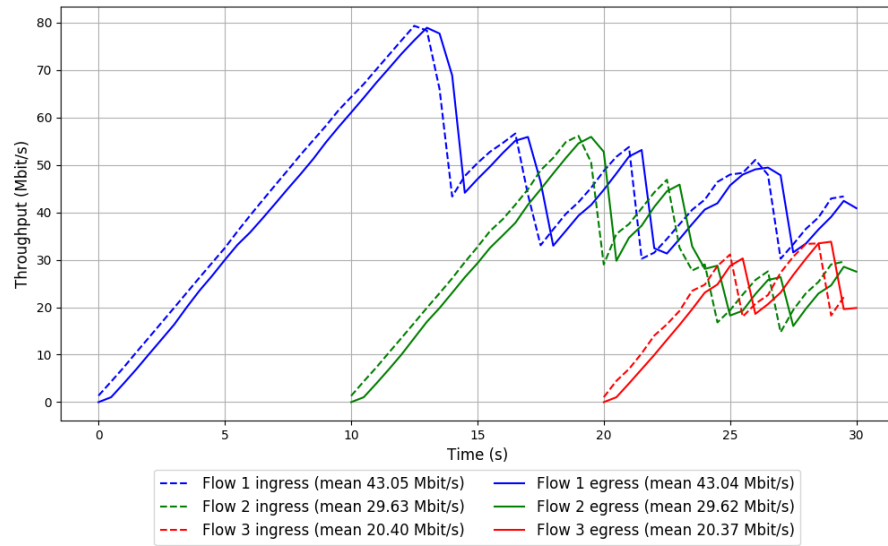
-- Flow 3:

Average throughput: 20.37 Mbit/s

95th percentile per-packet one-way delay: 41.152 ms

Loss rate: 0.76%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-05-25 12:23:56

End at: 2018-05-25 12:24:26

Local clock offset: 0.38 ms

Remote clock offset: 3.314 ms

Below is generated by plot.py at 2018-05-25 15:51:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.90 Mbit/s

95th percentile per-packet one-way delay: 60.978 ms

Loss rate: 5.33%

-- Flow 1:

Average throughput: 57.06 Mbit/s

95th percentile per-packet one-way delay: 59.249 ms

Loss rate: 6.42%

-- Flow 2:

Average throughput: 37.47 Mbit/s

95th percentile per-packet one-way delay: 63.265 ms

Loss rate: 3.93%

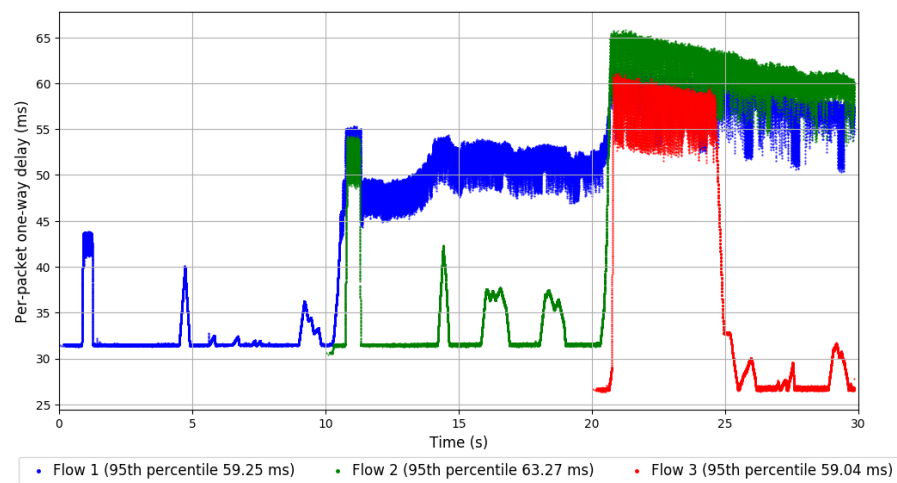
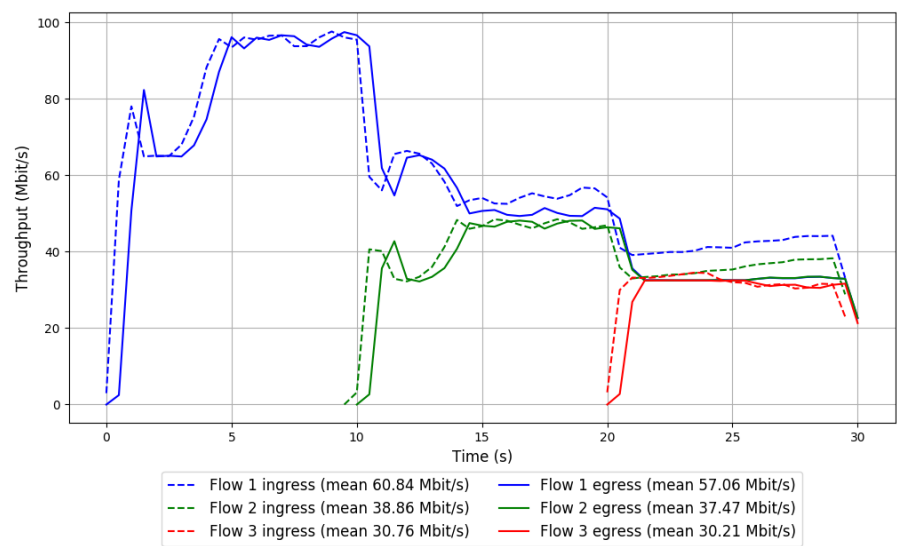
-- Flow 3:

Average throughput: 30.21 Mbit/s

95th percentile per-packet one-way delay: 59.044 ms

Loss rate: 2.35%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-05-25 12:45:15

End at: 2018-05-25 12:45:45

Local clock offset: 0.105 ms

Remote clock offset: 3.897 ms

Below is generated by plot.py at 2018-05-25 15:51:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.71 Mbit/s

95th percentile per-packet one-way delay: 57.756 ms

Loss rate: 4.27%

-- Flow 1:

Average throughput: 56.21 Mbit/s

95th percentile per-packet one-way delay: 58.261 ms

Loss rate: 6.54%

-- Flow 2:

Average throughput: 44.52 Mbit/s

95th percentile per-packet one-way delay: 36.397 ms

Loss rate: 0.34%

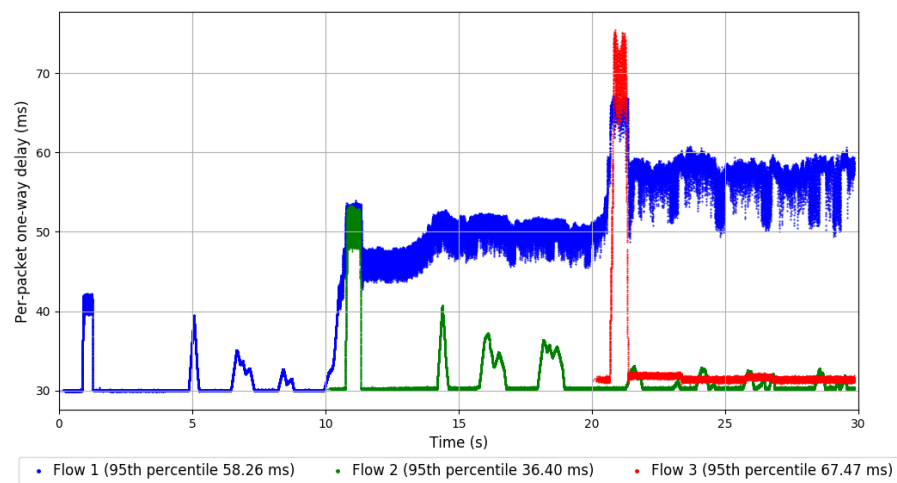
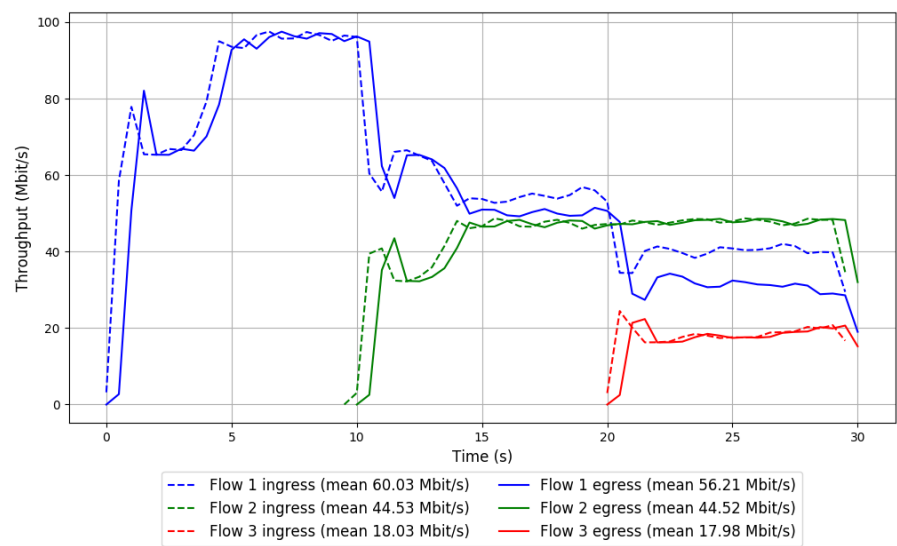
-- Flow 3:

Average throughput: 17.98 Mbit/s

95th percentile per-packet one-way delay: 67.475 ms

Loss rate: 0.89%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-05-25 13:06:37

End at: 2018-05-25 13:07:07

Local clock offset: 0.326 ms

Remote clock offset: 3.475 ms

Below is generated by plot.py at 2018-05-25 15:52:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.46 Mbit/s

95th percentile per-packet one-way delay: 62.148 ms

Loss rate: 5.21%

-- Flow 1:

Average throughput: 57.66 Mbit/s

95th percentile per-packet one-way delay: 58.305 ms

Loss rate: 6.37%

-- Flow 2:

Average throughput: 37.41 Mbit/s

95th percentile per-packet one-way delay: 63.216 ms

Loss rate: 3.52%

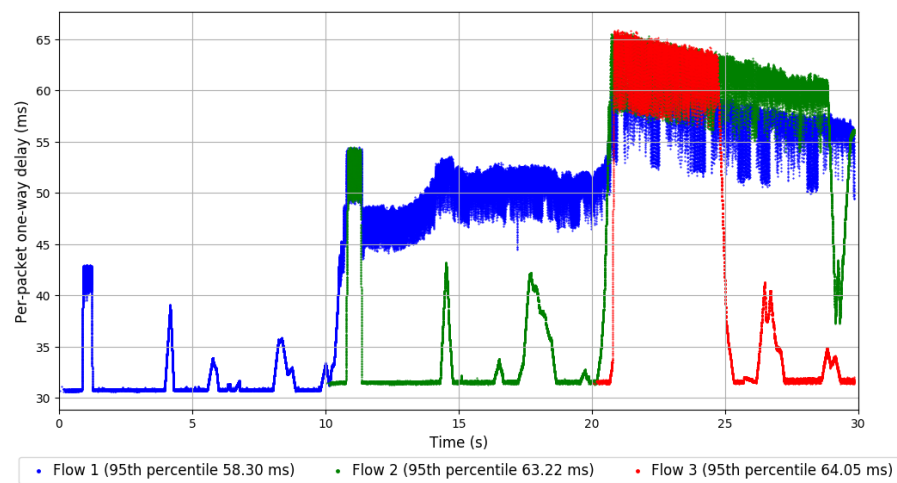
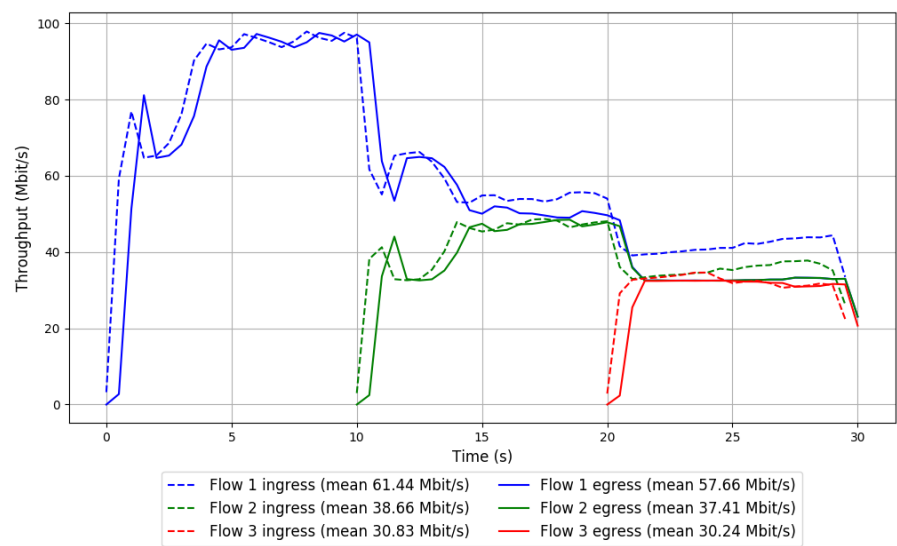
-- Flow 3:

Average throughput: 30.24 Mbit/s

95th percentile per-packet one-way delay: 64.045 ms

Loss rate: 2.50%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-05-25 13:27:58

End at: 2018-05-25 13:28:28

Local clock offset: 0.412 ms

Remote clock offset: 3.335 ms

Below is generated by plot.py at 2018-05-25 15:52:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.89 Mbit/s

95th percentile per-packet one-way delay: 59.528 ms

Loss rate: 5.15%

-- Flow 1:

Average throughput: 58.69 Mbit/s

95th percentile per-packet one-way delay: 56.874 ms

Loss rate: 6.29%

-- Flow 2:

Average throughput: 38.32 Mbit/s

95th percentile per-packet one-way delay: 61.149 ms

Loss rate: 3.90%

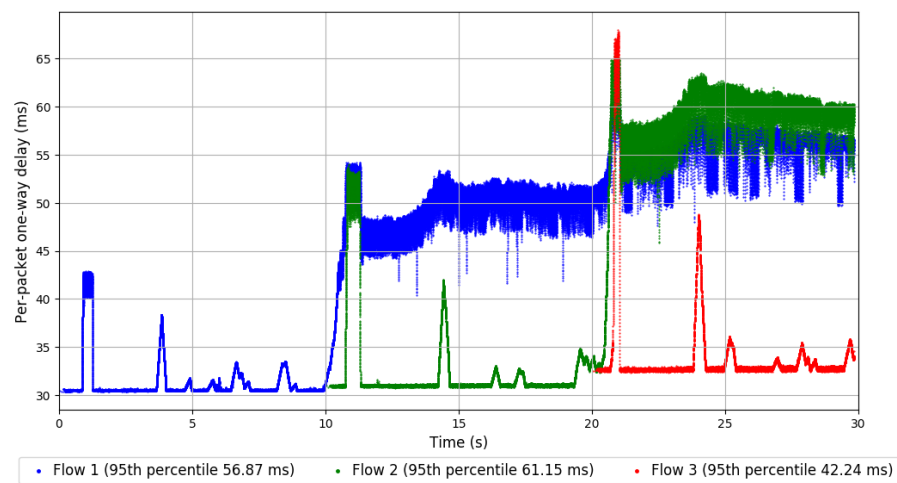
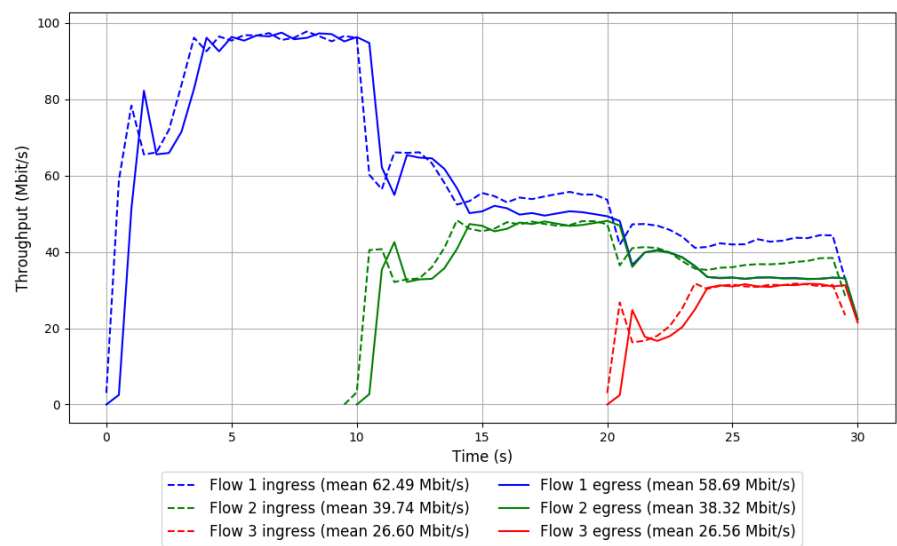
-- Flow 3:

Average throughput: 26.56 Mbit/s

95th percentile per-packet one-way delay: 42.241 ms

Loss rate: 0.79%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-05-25 13:49:15

End at: 2018-05-25 13:49:45

Local clock offset: 0.629 ms

Remote clock offset: 3.769 ms

Below is generated by plot.py at 2018-05-25 15:52:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.29 Mbit/s

95th percentile per-packet one-way delay: 60.700 ms

Loss rate: 5.07%

-- Flow 1:

Average throughput: 57.22 Mbit/s

95th percentile per-packet one-way delay: 58.004 ms

Loss rate: 6.35%

-- Flow 2:

Average throughput: 37.84 Mbit/s

95th percentile per-packet one-way delay: 62.945 ms

Loss rate: 3.03%

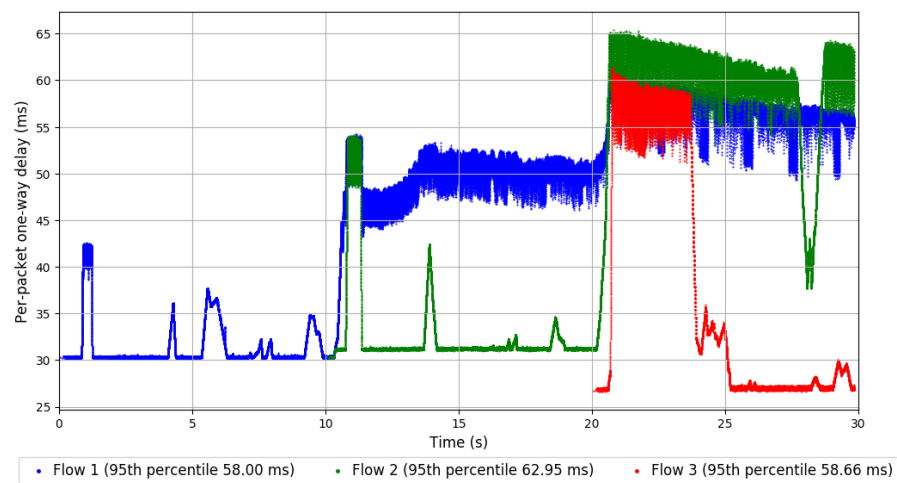
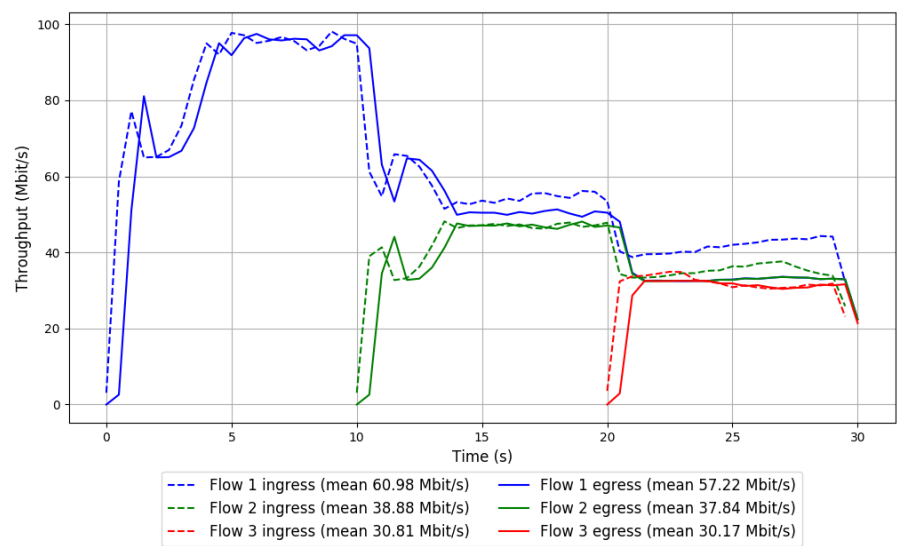
-- Flow 3:

Average throughput: 30.17 Mbit/s

95th percentile per-packet one-way delay: 58.663 ms

Loss rate: 2.63%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-05-25 14:10:31

End at: 2018-05-25 14:11:01

Local clock offset: 0.239 ms

Remote clock offset: 0.908 ms

Below is generated by plot.py at 2018-05-25 15:52:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.14 Mbit/s

95th percentile per-packet one-way delay: 64.223 ms

Loss rate: 5.01%

-- Flow 1:

Average throughput: 58.45 Mbit/s

95th percentile per-packet one-way delay: 59.944 ms

Loss rate: 5.88%

-- Flow 2:

Average throughput: 37.26 Mbit/s

95th percentile per-packet one-way delay: 65.403 ms

Loss rate: 3.88%

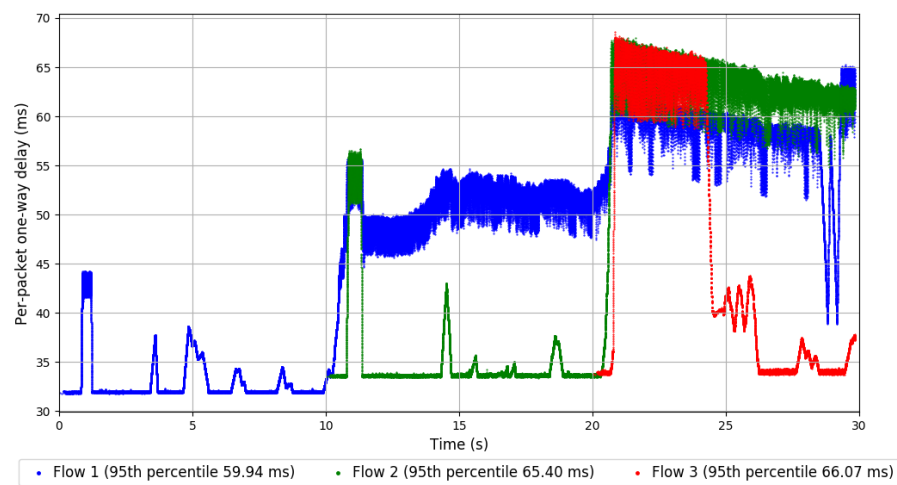
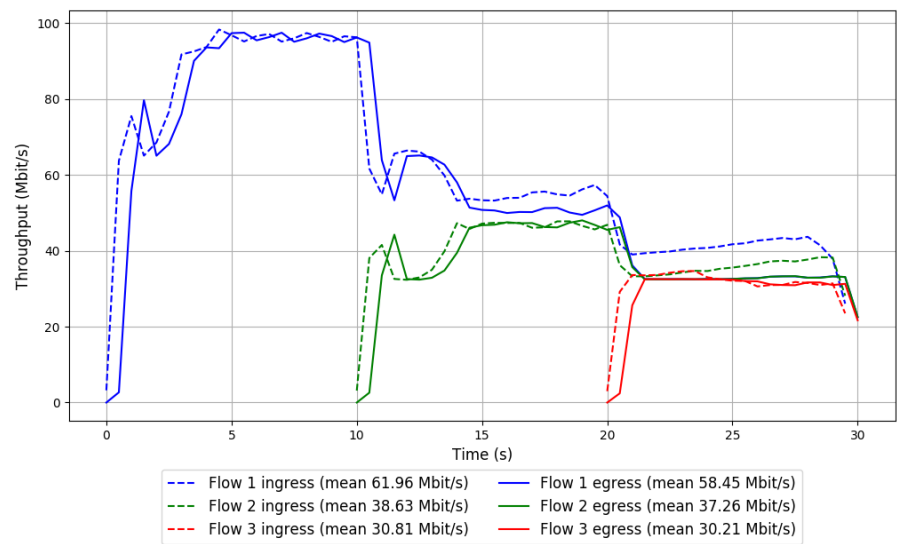
-- Flow 3:

Average throughput: 30.21 Mbit/s

95th percentile per-packet one-way delay: 66.073 ms

Loss rate: 2.57%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-05-25 14:31:46

End at: 2018-05-25 14:32:16

Local clock offset: 0.147 ms

Remote clock offset: 0.889 ms

Below is generated by plot.py at 2018-05-25 15:52:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.91 Mbit/s

95th percentile per-packet one-way delay: 70.289 ms

Loss rate: 2.61%

-- Flow 1:

Average throughput: 57.96 Mbit/s

95th percentile per-packet one-way delay: 69.716 ms

Loss rate: 2.32%

-- Flow 2:

Average throughput: 31.34 Mbit/s

95th percentile per-packet one-way delay: 71.462 ms

Loss rate: 4.41%

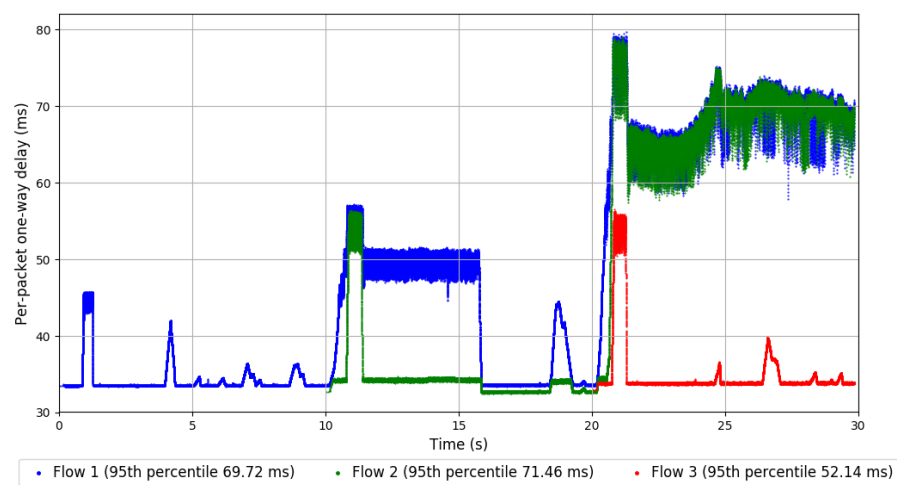
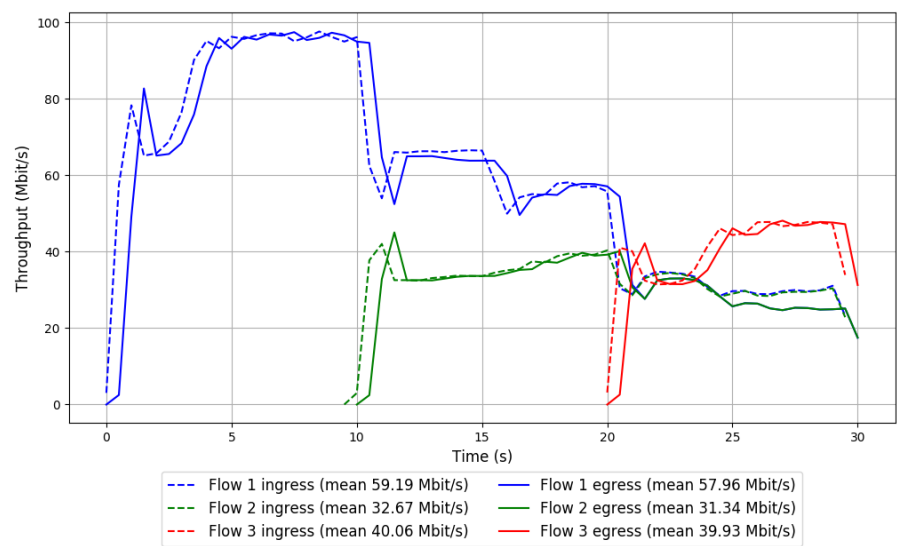
-- Flow 3:

Average throughput: 39.93 Mbit/s

95th percentile per-packet one-way delay: 52.138 ms

Loss rate: 0.96%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-05-25 14:53:04

End at: 2018-05-25 14:53:34

Local clock offset: 0.076 ms

Remote clock offset: 3.527 ms

Below is generated by plot.py at 2018-05-25 15:52:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.66 Mbit/s

95th percentile per-packet one-way delay: 62.276 ms

Loss rate: 2.52%

-- Flow 1:

Average throughput: 57.01 Mbit/s

95th percentile per-packet one-way delay: 64.202 ms

Loss rate: 3.76%

-- Flow 2:

Average throughput: 43.92 Mbit/s

95th percentile per-packet one-way delay: 38.474 ms

Loss rate: 0.35%

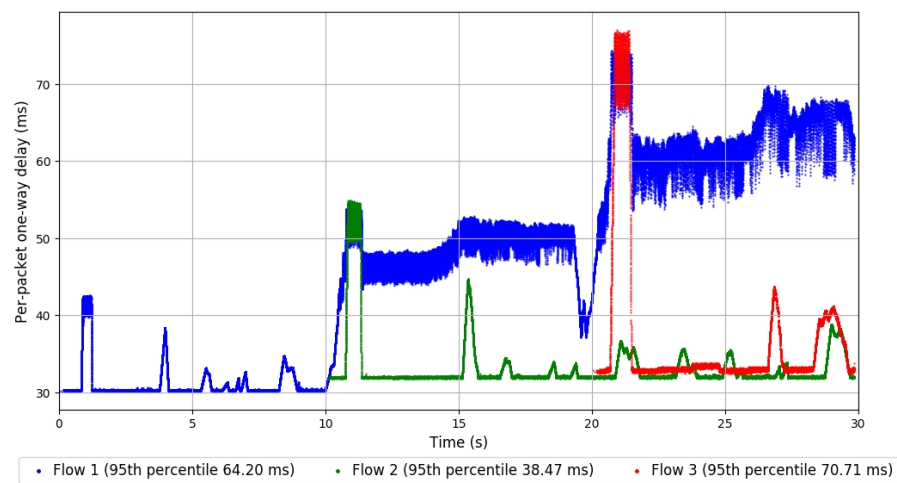
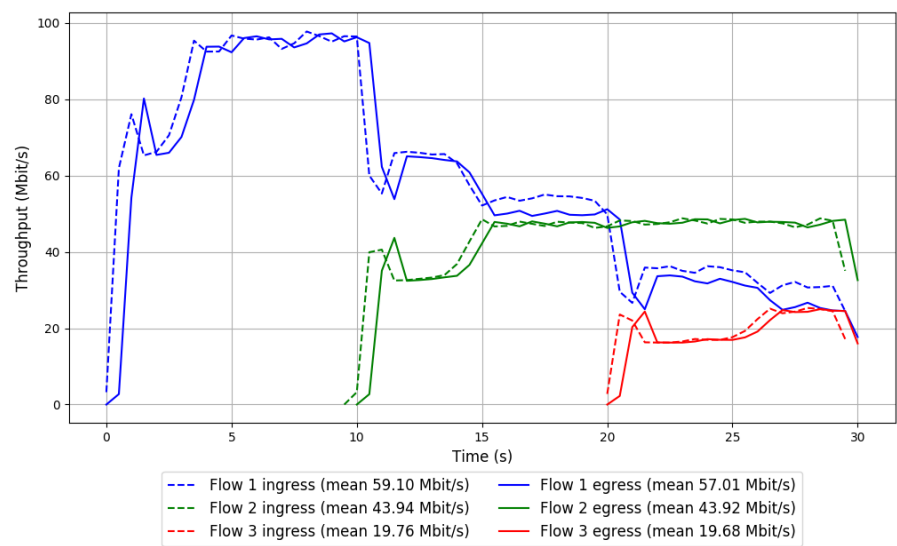
-- Flow 3:

Average throughput: 19.68 Mbit/s

95th percentile per-packet one-way delay: 70.712 ms

Loss rate: 1.02%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-05-25 15:14:24

End at: 2018-05-25 15:14:54

Local clock offset: 0.495 ms

Remote clock offset: 0.528 ms

Below is generated by plot.py at 2018-05-25 15:52:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.09 Mbit/s

95th percentile per-packet one-way delay: 61.528 ms

Loss rate: 5.24%

-- Flow 1:

Average throughput: 57.94 Mbit/s

95th percentile per-packet one-way delay: 60.103 ms

Loss rate: 6.32%

-- Flow 2:

Average throughput: 37.95 Mbit/s

95th percentile per-packet one-way delay: 60.983 ms

Loss rate: 3.78%

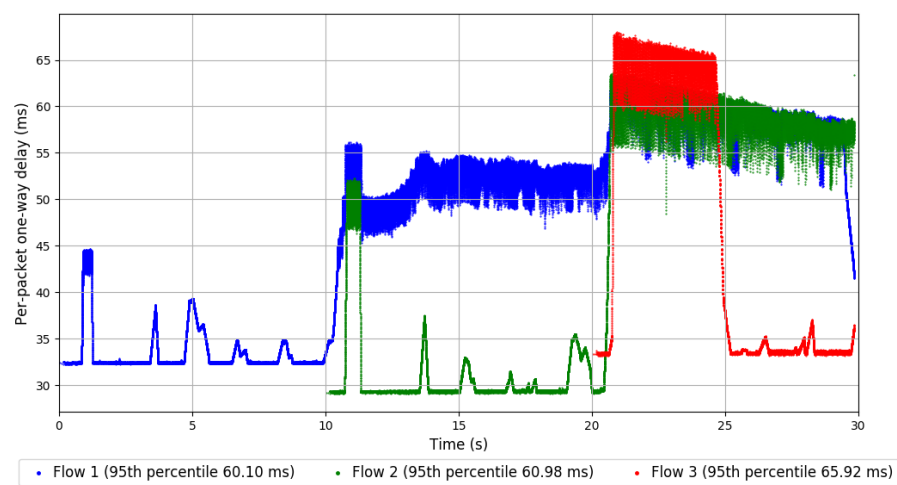
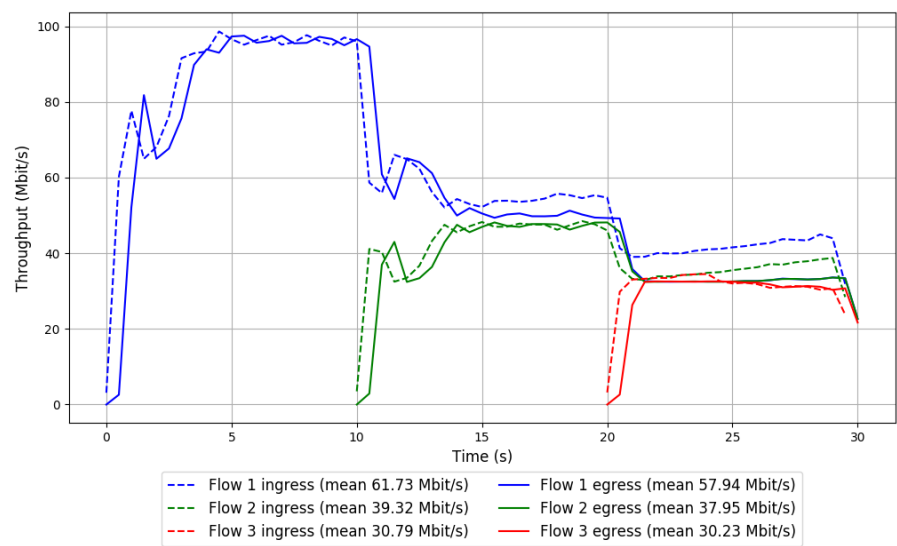
-- Flow 3:

Average throughput: 30.23 Mbit/s

95th percentile per-packet one-way delay: 65.922 ms

Loss rate: 2.44%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-05-25 15:35:43

End at: 2018-05-25 15:36:13

Local clock offset: 0.262 ms

Remote clock offset: 1.83 ms

Below is generated by plot.py at 2018-05-25 15:53:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.13 Mbit/s

95th percentile per-packet one-way delay: 58.419 ms

Loss rate: 5.02%

-- Flow 1:

Average throughput: 57.48 Mbit/s

95th percentile per-packet one-way delay: 53.112 ms

Loss rate: 5.94%

-- Flow 2:

Average throughput: 37.25 Mbit/s

95th percentile per-packet one-way delay: 57.802 ms

Loss rate: 3.85%

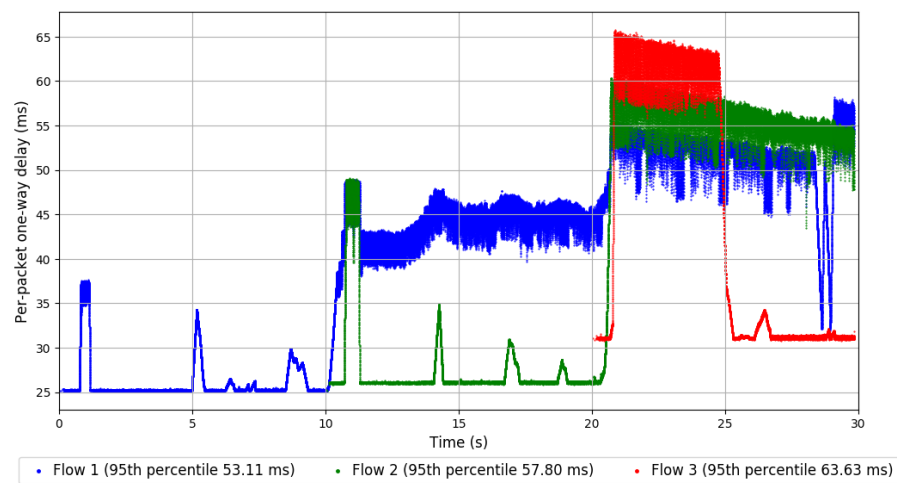
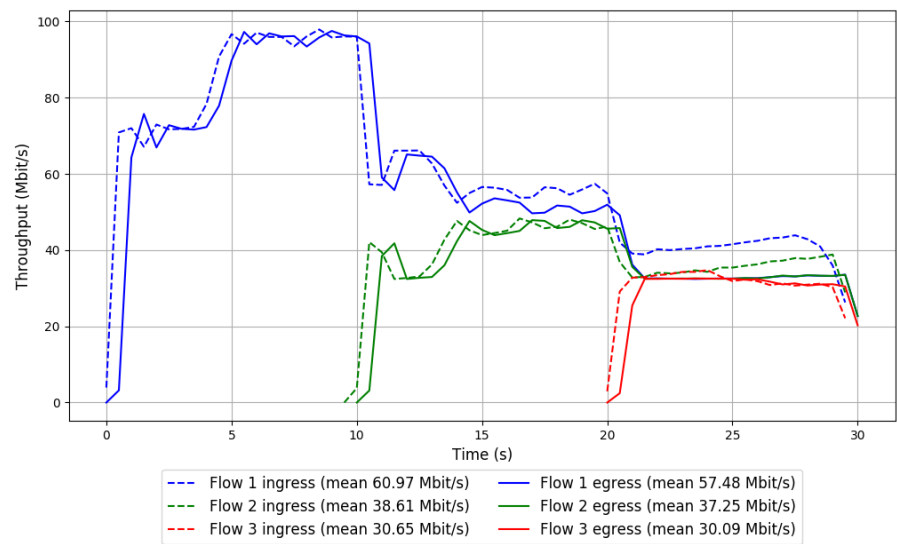
-- Flow 3:

Average throughput: 30.09 Mbit/s

95th percentile per-packet one-way delay: 63.635 ms

Loss rate: 2.44%

Run 10: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-05-25 12:13:15

End at: 2018-05-25 12:13:45

Local clock offset: 0.3 ms

Remote clock offset: 3.508 ms

Run 1: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of PCC-Expr

Start at: 2018-05-25 12:34:32

End at: 2018-05-25 12:35:02

Local clock offset: 0.167 ms

Remote clock offset: 1.543 ms

Run 2: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of PCC-Expr

Start at: 2018-05-25 12:55:51

End at: 2018-05-25 12:56:21

Local clock offset: 0.016 ms

Remote clock offset: 1.314 ms

Run 3: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of PCC-Expr

Start at: 2018-05-25 13:17:13

End at: 2018-05-25 13:17:43

Local clock offset: 0.386 ms

Remote clock offset: 3.816 ms

Run 4: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of PCC-Expr

Start at: 2018-05-25 13:38:34

End at: 2018-05-25 13:39:04

Local clock offset: 0.529 ms

Remote clock offset: 1.385 ms

Run 5: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of PCC-Expr

Start at: 2018-05-25 13:59:49

End at: 2018-05-25 14:00:19

Local clock offset: 0.412 ms

Remote clock offset: 3.535 ms

Run 6: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of PCC-Expr

Start at: 2018-05-25 14:21:05

End at: 2018-05-25 14:21:35

Local clock offset: 0.114 ms

Remote clock offset: 0.928 ms

Run 7: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of PCC-Expr

Start at: 2018-05-25 14:42:21

End at: 2018-05-25 14:42:51

Local clock offset: 0.127 ms

Remote clock offset: 3.002 ms

Run 8: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of PCC-Expr

Start at: 2018-05-25 15:03:38

End at: 2018-05-25 15:04:08

Local clock offset: 0.311 ms

Remote clock offset: 3.101 ms

Run 9: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of PCC-Expr

Start at: 2018-05-25 15:25:00

End at: 2018-05-25 15:25:30

Local clock offset: 0.623 ms

Remote clock offset: 2.426 ms

Run 10: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 1: Statistics of QUIC Cubic

Start at: 2018-05-25 12:10:38

End at: 2018-05-25 12:11:08

Local clock offset: 0.381 ms

Remote clock offset: 0.995 ms

Below is generated by plot.py at 2018-05-25 15:53:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.98 Mbit/s

95th percentile per-packet one-way delay: 44.252 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 49.36 Mbit/s

95th percentile per-packet one-way delay: 44.226 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 46.49 Mbit/s

95th percentile per-packet one-way delay: 41.116 ms

Loss rate: 0.35%

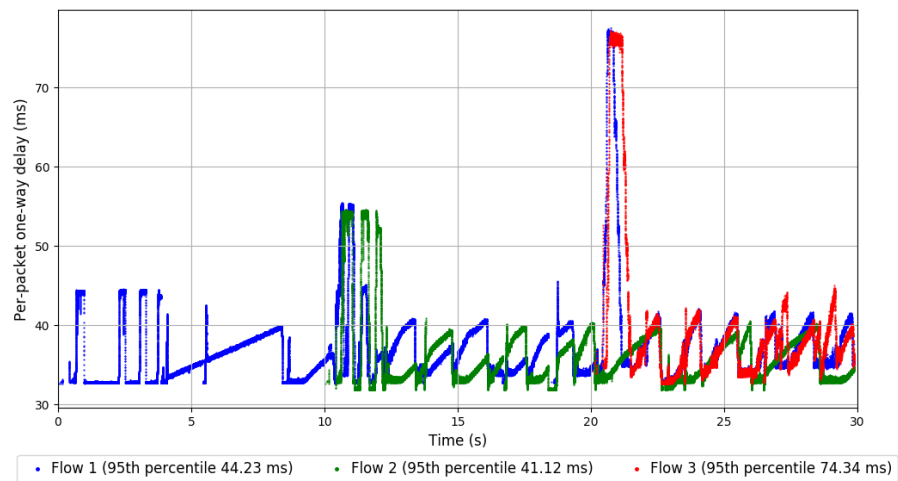
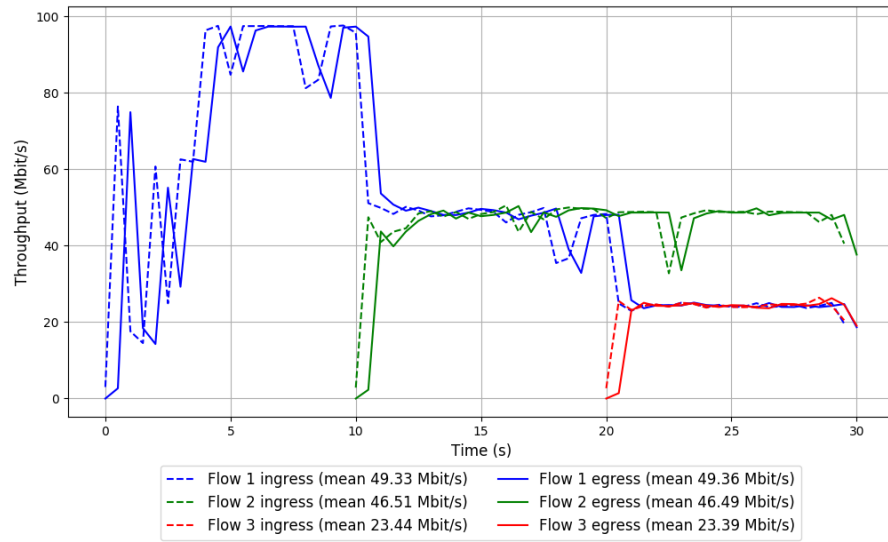
-- Flow 3:

Average throughput: 23.39 Mbit/s

95th percentile per-packet one-way delay: 74.345 ms

Loss rate: 0.83%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-05-25 12:31:54

End at: 2018-05-25 12:32:24

Local clock offset: 0.229 ms

Remote clock offset: 3.965 ms

Below is generated by plot.py at 2018-05-25 15:53:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.29 Mbit/s

95th percentile per-packet one-way delay: 40.387 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 50.28 Mbit/s

95th percentile per-packet one-way delay: 36.774 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 39.10 Mbit/s

95th percentile per-packet one-way delay: 48.170 ms

Loss rate: 0.31%

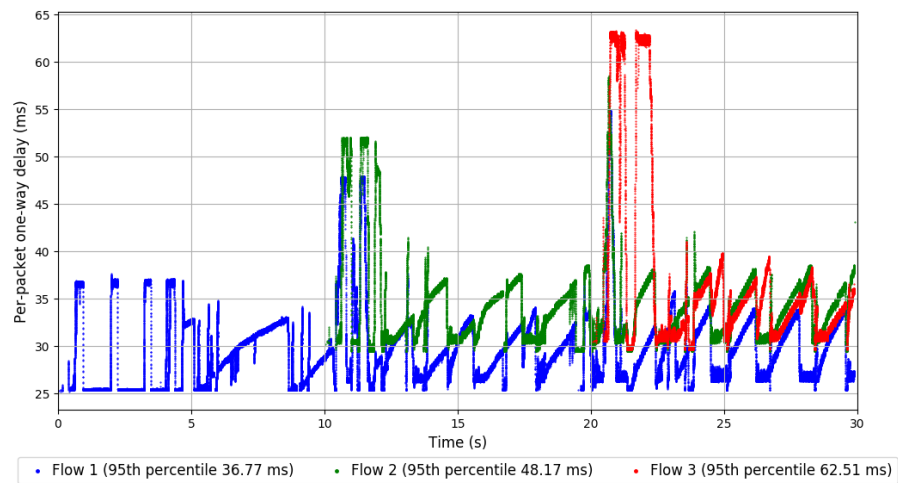
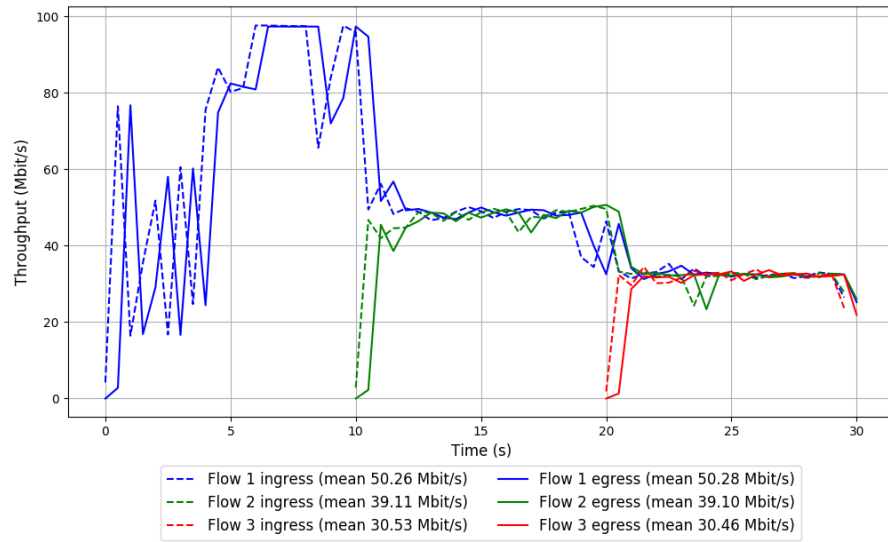
-- Flow 3:

Average throughput: 30.46 Mbit/s

95th percentile per-packet one-way delay: 62.513 ms

Loss rate: 0.85%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-05-25 12:53:14

End at: 2018-05-25 12:53:44

Local clock offset: -0.002 ms

Remote clock offset: 3.853 ms

Below is generated by plot.py at 2018-05-25 15:53:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.97 Mbit/s

95th percentile per-packet one-way delay: 48.449 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 50.73 Mbit/s

95th percentile per-packet one-way delay: 41.359 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 37.51 Mbit/s

95th percentile per-packet one-way delay: 51.007 ms

Loss rate: 0.33%

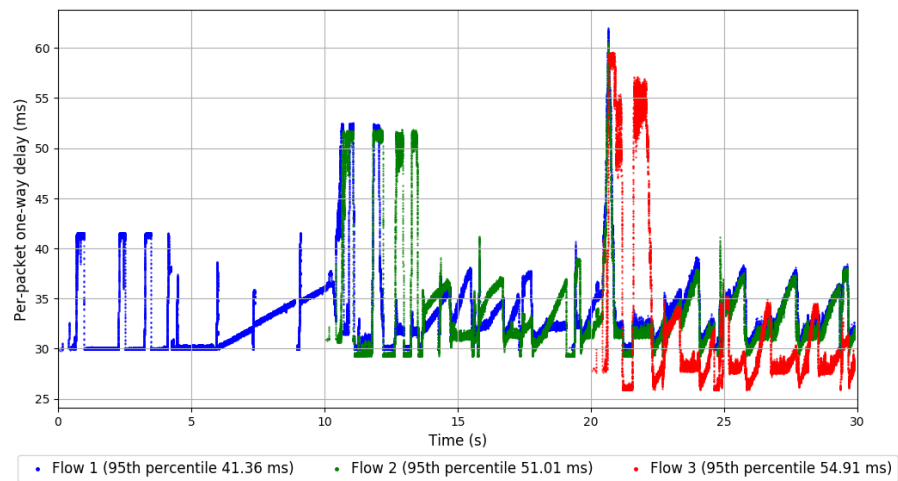
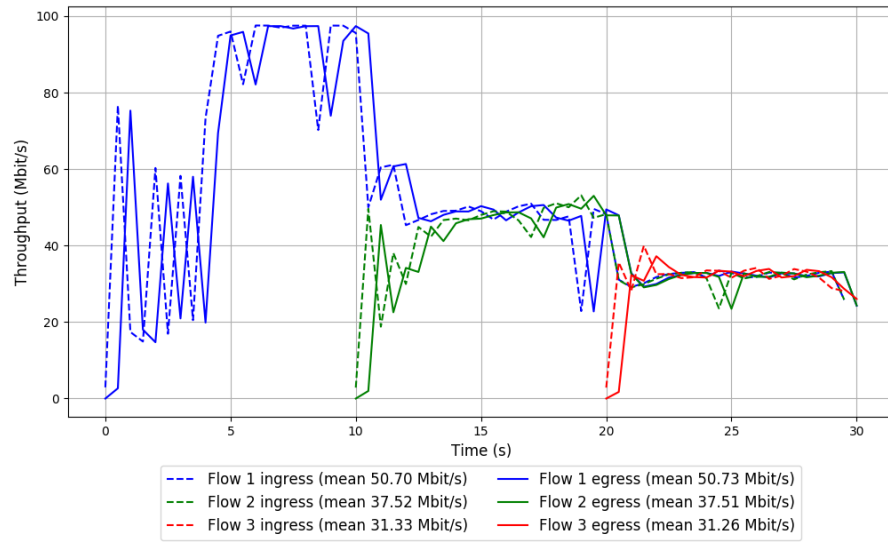
-- Flow 3:

Average throughput: 31.26 Mbit/s

95th percentile per-packet one-way delay: 54.908 ms

Loss rate: 0.81%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-05-25 13:14:36

End at: 2018-05-25 13:15:06

Local clock offset: 0.368 ms

Remote clock offset: 3.965 ms

Below is generated by plot.py at 2018-05-25 15:53:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.54 Mbit/s

95th percentile per-packet one-way delay: 40.821 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 51.35 Mbit/s

95th percentile per-packet one-way delay: 40.601 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 39.25 Mbit/s

95th percentile per-packet one-way delay: 42.802 ms

Loss rate: 0.30%

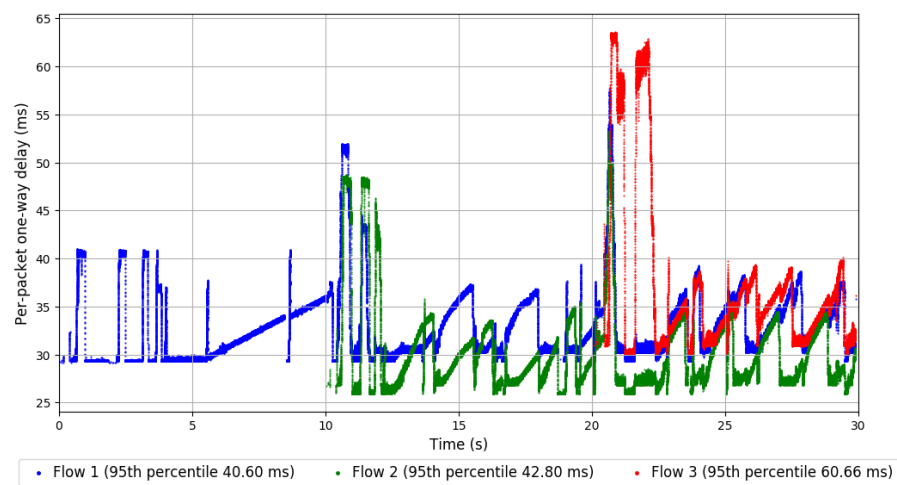
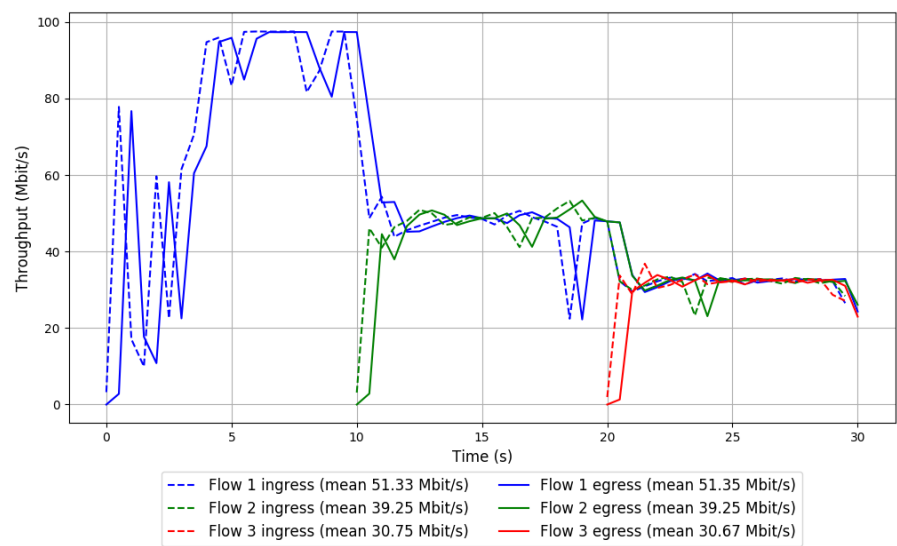
-- Flow 3:

Average throughput: 30.67 Mbit/s

95th percentile per-packet one-way delay: 60.663 ms

Loss rate: 0.83%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-05-25 13:35:57

End at: 2018-05-25 13:36:27

Local clock offset: 0.487 ms

Remote clock offset: 1.356 ms

Below is generated by plot.py at 2018-05-25 15:53:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.91 Mbit/s

95th percentile per-packet one-way delay: 40.967 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 57.03 Mbit/s

95th percentile per-packet one-way delay: 39.803 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 34.98 Mbit/s

95th percentile per-packet one-way delay: 53.871 ms

Loss rate: 0.31%

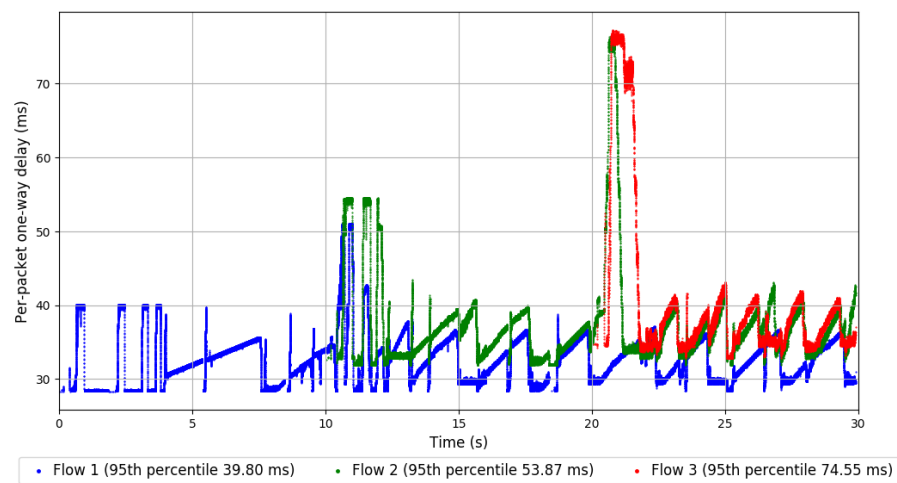
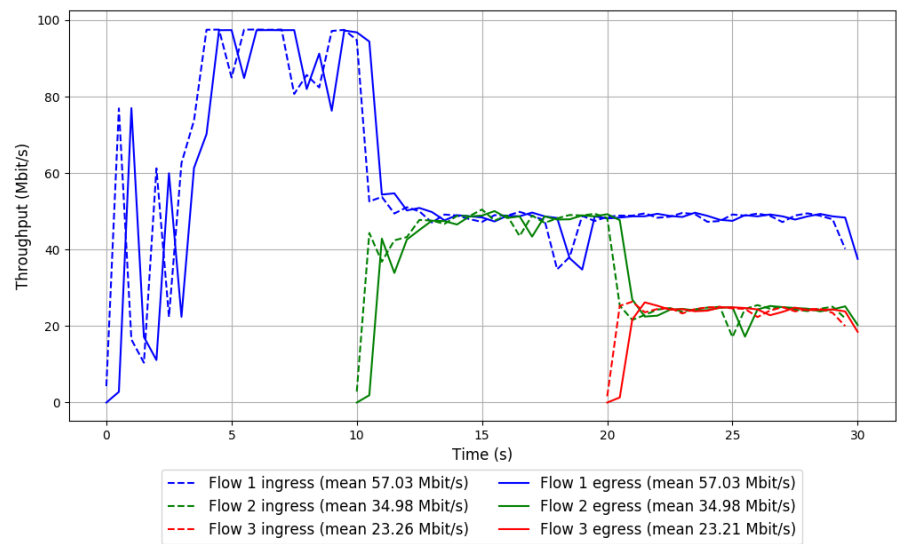
-- Flow 3:

Average throughput: 23.21 Mbit/s

95th percentile per-packet one-way delay: 74.545 ms

Loss rate: 0.87%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-05-25 13:57:12

End at: 2018-05-25 13:57:42

Local clock offset: 0.514 ms

Remote clock offset: 3.114 ms

Below is generated by plot.py at 2018-05-25 15:53:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.68 Mbit/s

95th percentile per-packet one-way delay: 39.659 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 50.87 Mbit/s

95th percentile per-packet one-way delay: 37.000 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 38.92 Mbit/s

95th percentile per-packet one-way delay: 48.795 ms

Loss rate: 0.32%

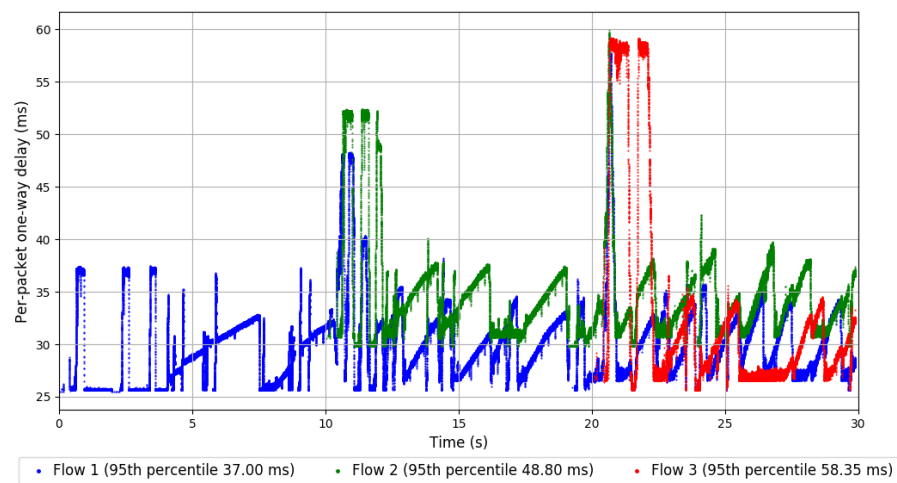
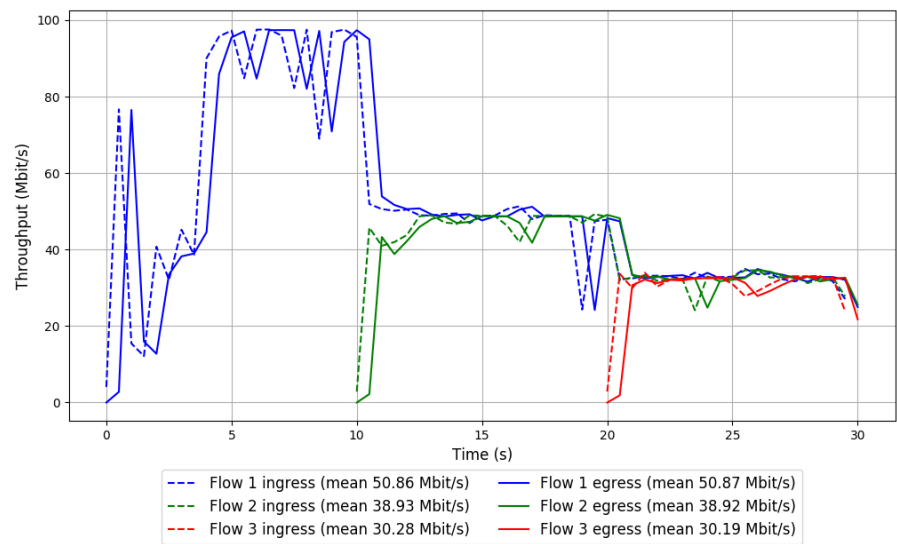
-- Flow 3:

Average throughput: 30.19 Mbit/s

95th percentile per-packet one-way delay: 58.352 ms

Loss rate: 0.86%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-05-25 14:18:28

End at: 2018-05-25 14:18:58

Local clock offset: 0.117 ms

Remote clock offset: 3.493 ms

Below is generated by plot.py at 2018-05-25 15:54:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.17 Mbit/s

95th percentile per-packet one-way delay: 43.247 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 49.55 Mbit/s

95th percentile per-packet one-way delay: 36.582 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 43.61 Mbit/s

95th percentile per-packet one-way delay: 52.215 ms

Loss rate: 0.44%

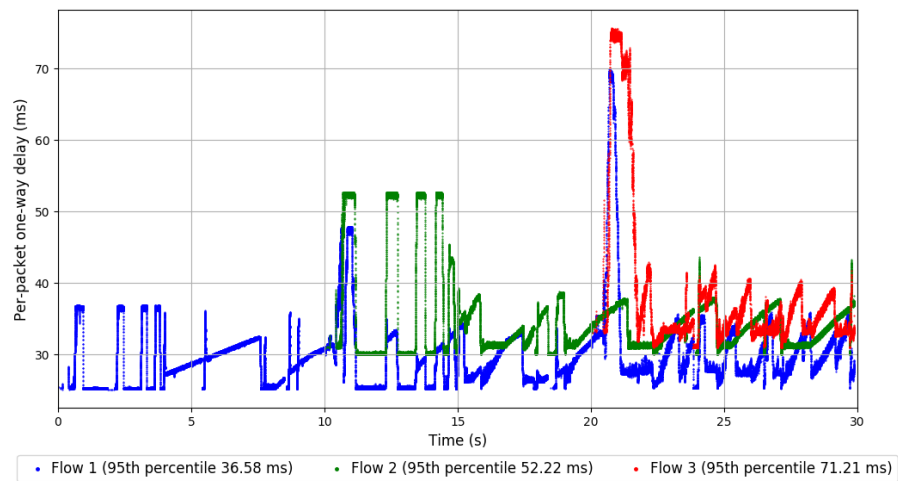
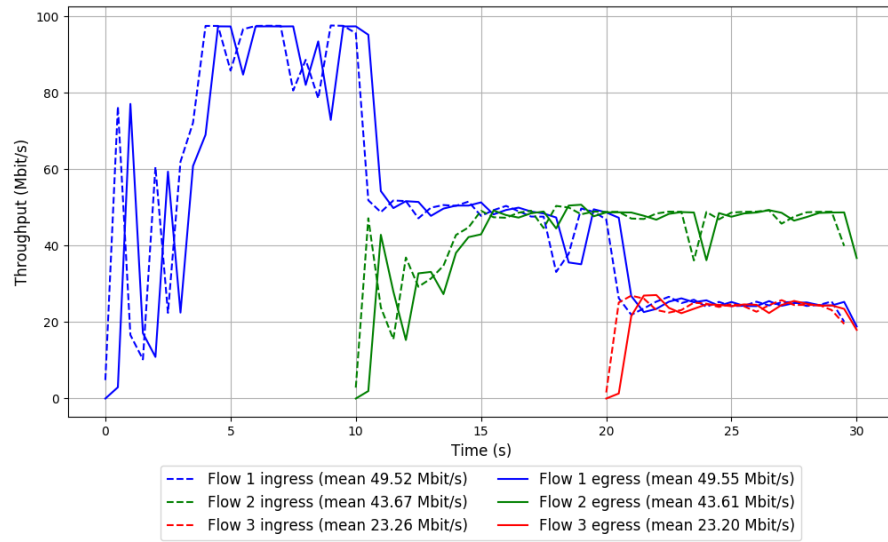
-- Flow 3:

Average throughput: 23.20 Mbit/s

95th percentile per-packet one-way delay: 71.212 ms

Loss rate: 0.89%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-05-25 14:39:44

End at: 2018-05-25 14:40:14

Local clock offset: 0.037 ms

Remote clock offset: 0.902 ms

Below is generated by plot.py at 2018-05-25 15:54:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.55 Mbit/s

95th percentile per-packet one-way delay: 53.014 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 49.61 Mbit/s

95th percentile per-packet one-way delay: 44.799 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 33.98 Mbit/s

95th percentile per-packet one-way delay: 54.379 ms

Loss rate: 0.30%

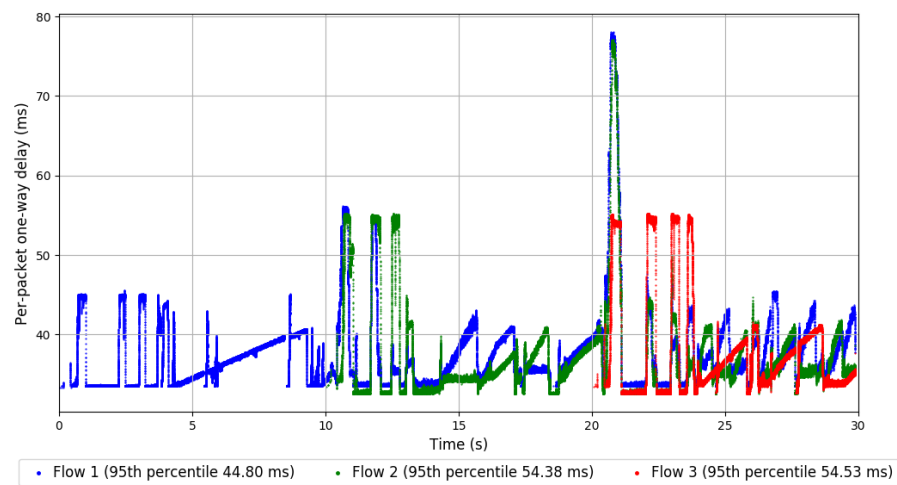
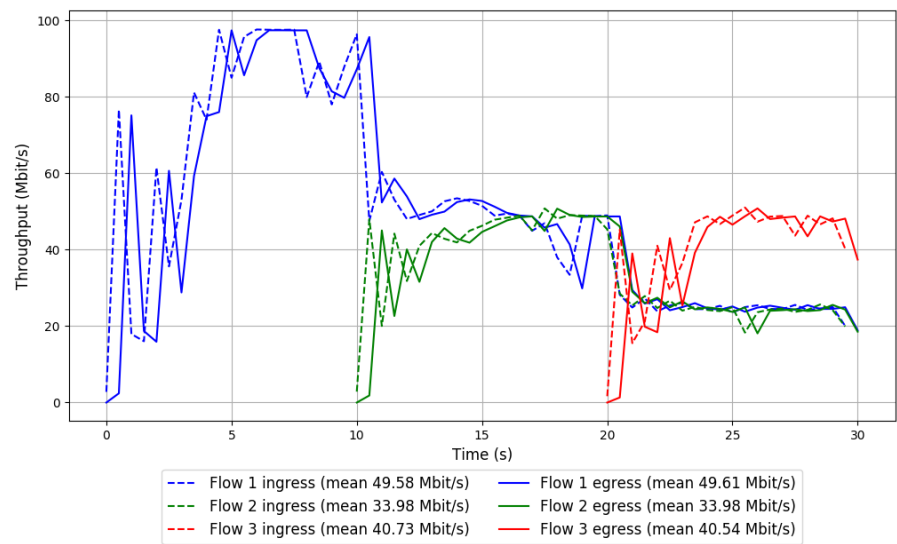
-- Flow 3:

Average throughput: 40.54 Mbit/s

95th percentile per-packet one-way delay: 54.531 ms

Loss rate: 1.06%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-05-25 15:01:01

End at: 2018-05-25 15:01:31

Local clock offset: 0.317 ms

Remote clock offset: 3.207 ms

Below is generated by plot.py at 2018-05-25 15:54:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.32 Mbit/s

95th percentile per-packet one-way delay: 41.498 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 49.87 Mbit/s

95th percentile per-packet one-way delay: 41.402 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 46.38 Mbit/s

95th percentile per-packet one-way delay: 40.211 ms

Loss rate: 0.38%

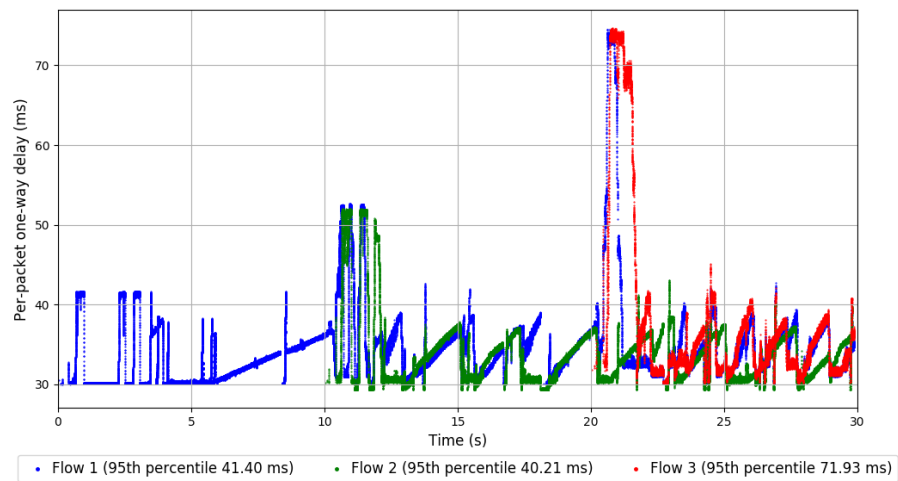
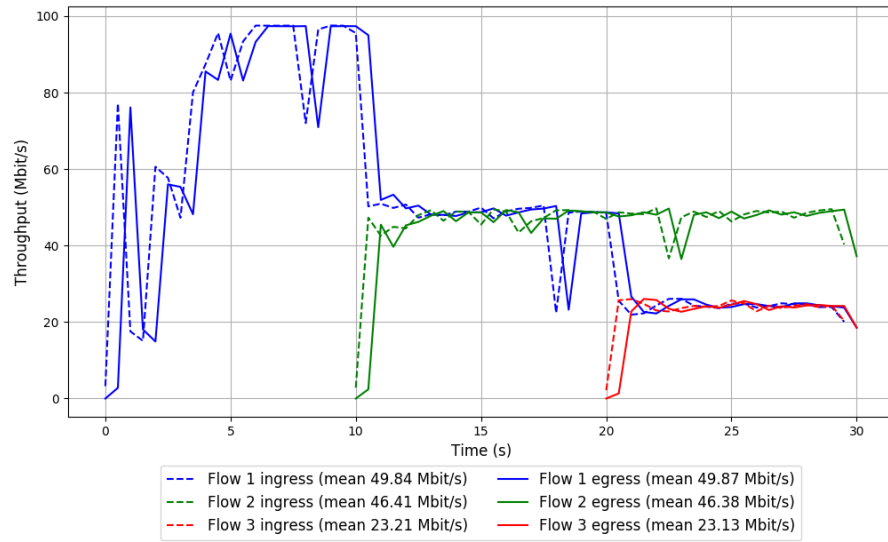
-- Flow 3:

Average throughput: 23.13 Mbit/s

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

Loss rate: 0.93%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-05-25 15:22:23

End at: 2018-05-25 15:22:53

Local clock offset: 0.601 ms

Remote clock offset: 0.312 ms

Below is generated by plot.py at 2018-05-25 15:54:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.41 Mbit/s

95th percentile per-packet one-way delay: 41.071 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 51.74 Mbit/s

95th percentile per-packet one-way delay: 39.420 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 38.76 Mbit/s

95th percentile per-packet one-way delay: 43.411 ms

Loss rate: 0.35%

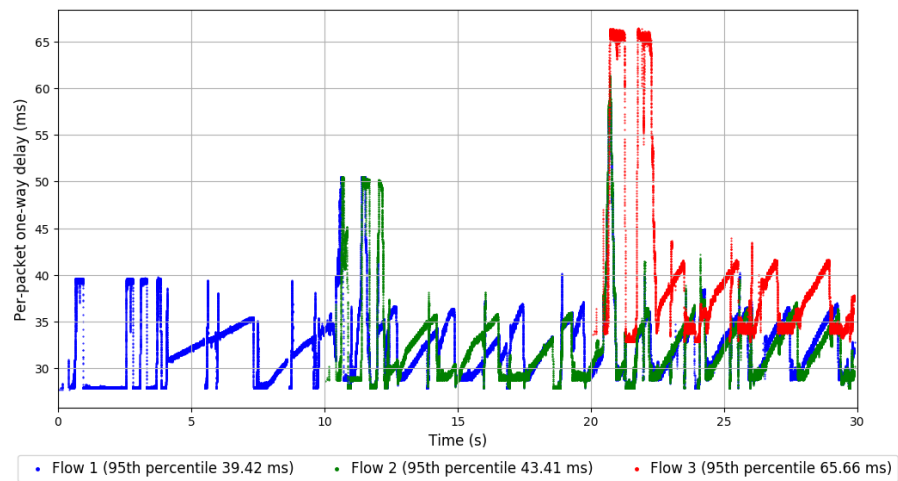
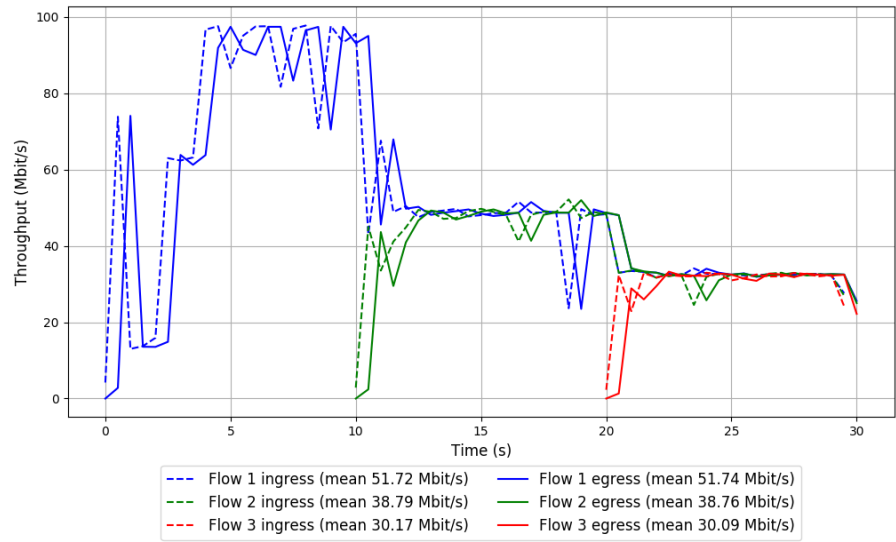
-- Flow 3:

Average throughput: 30.09 Mbit/s

95th percentile per-packet one-way delay: 65.658 ms

Loss rate: 0.89%

Run 10: Report of QUIC Cubic — Data Link



Run 1: Statistics of SReAM

Start at: 2018-05-25 12:26:37

End at: 2018-05-25 12:27:07

Local clock offset: 0.339 ms

Remote clock offset: 3.894 ms

Below is generated by plot.py at 2018-05-25 15:54:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 29.430 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 25.252 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 25.245 ms

Loss rate: 0.19%

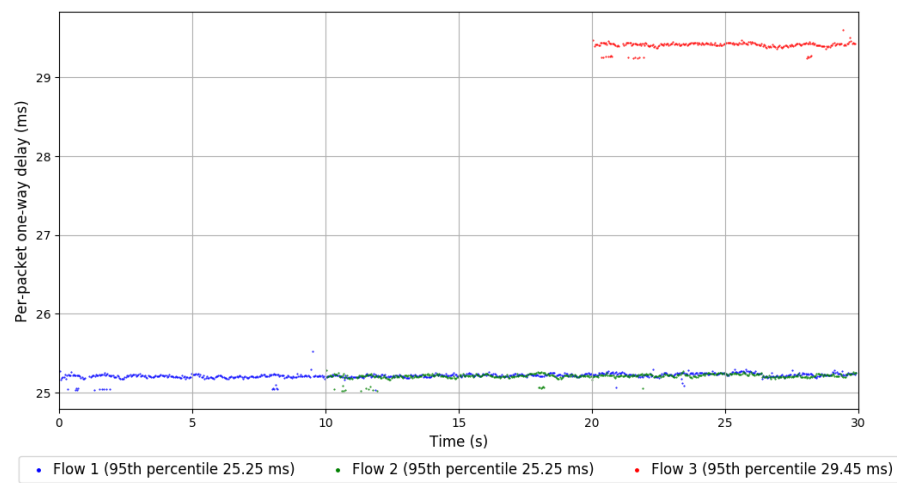
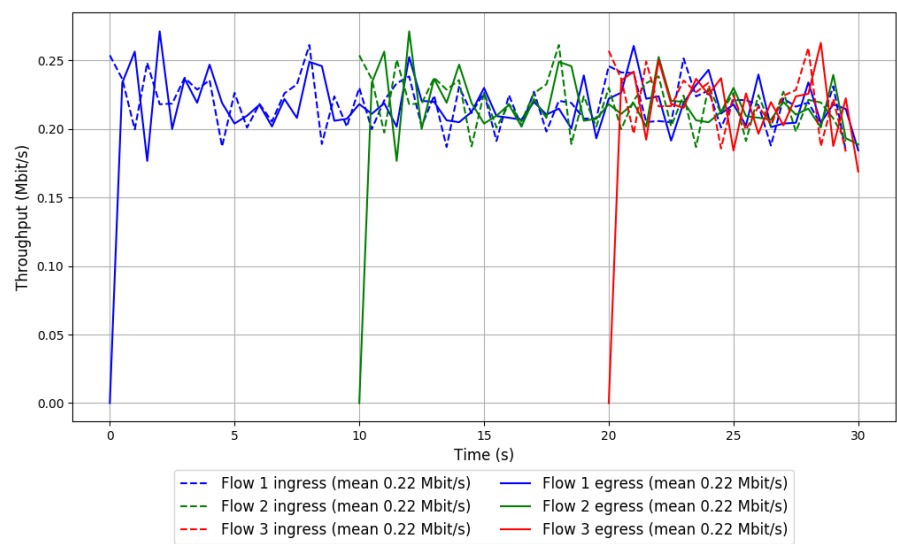
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 29.445 ms

Loss rate: 0.70%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SReAM

Start at: 2018-05-25 12:47:57

End at: 2018-05-25 12:48:27

Local clock offset: 0.098 ms

Remote clock offset: 3.313 ms

Below is generated by plot.py at 2018-05-25 15:54:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 30.913 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.920 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 26.508 ms

Loss rate: 0.19%

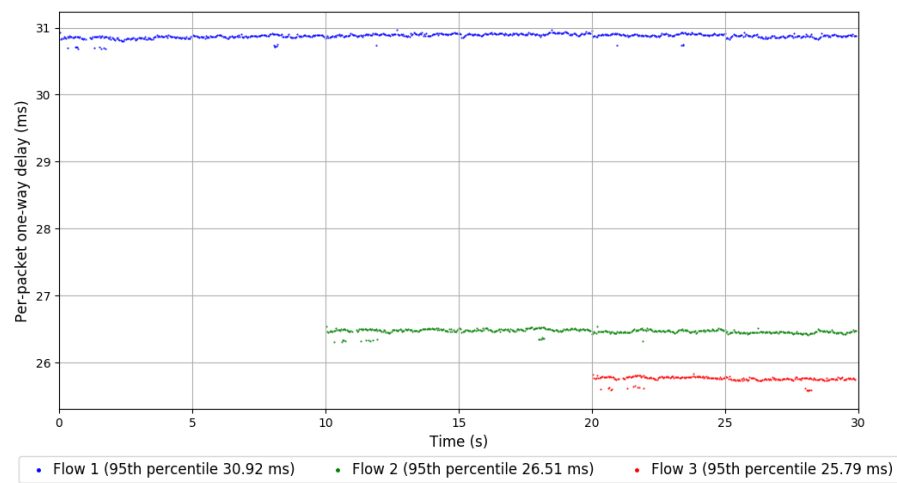
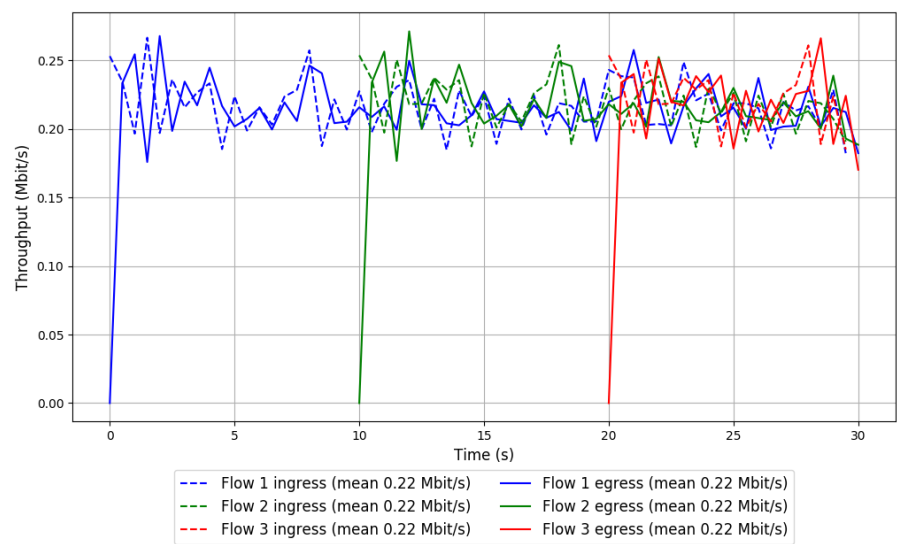
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 25.794 ms

Loss rate: 0.70%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-05-25 13:09:18

End at: 2018-05-25 13:09:48

Local clock offset: 0.352 ms

Remote clock offset: 3.544 ms

Below is generated by plot.py at 2018-05-25 15:54:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 31.500 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.995 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.817 ms

Loss rate: 0.40%

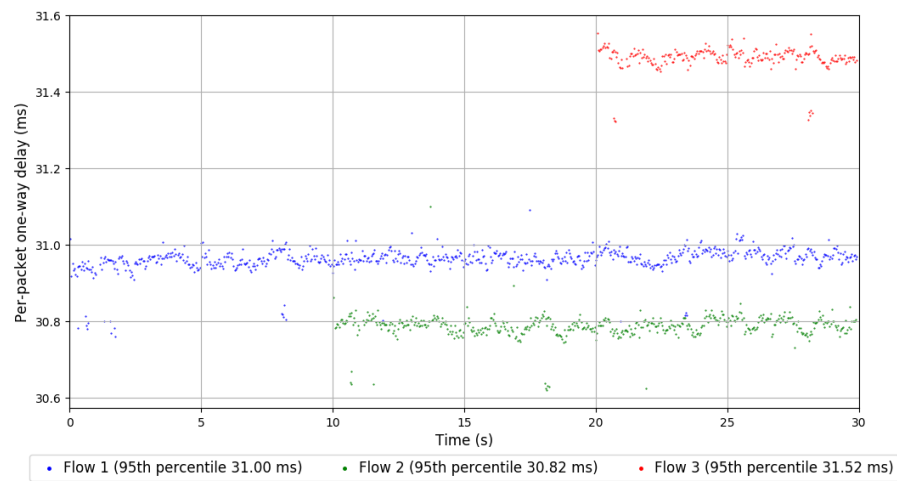
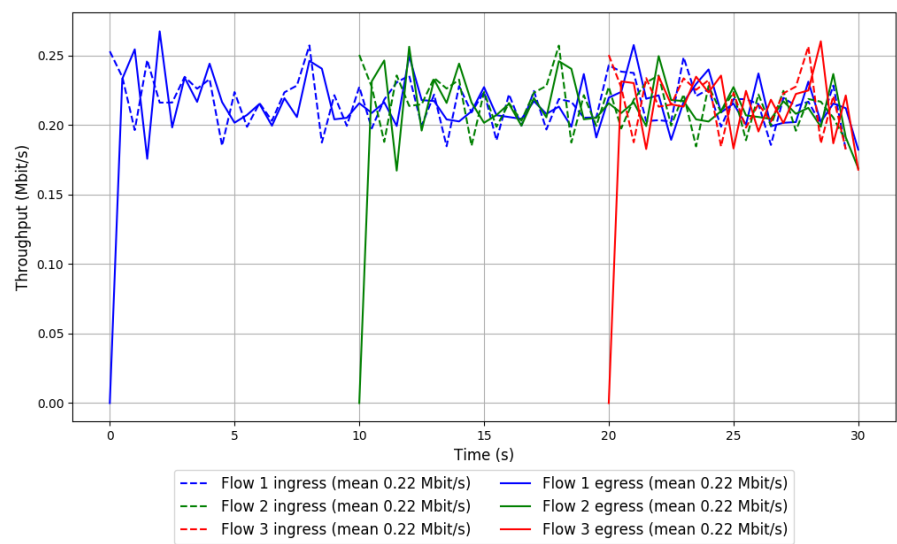
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 31.518 ms

Loss rate: 0.71%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-05-25 13:30:40

End at: 2018-05-25 13:31:10

Local clock offset: 0.454 ms

Remote clock offset: 3.386 ms

Below is generated by plot.py at 2018-05-25 15:54:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 31.490 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 25.835 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 31.505 ms

Loss rate: 0.40%

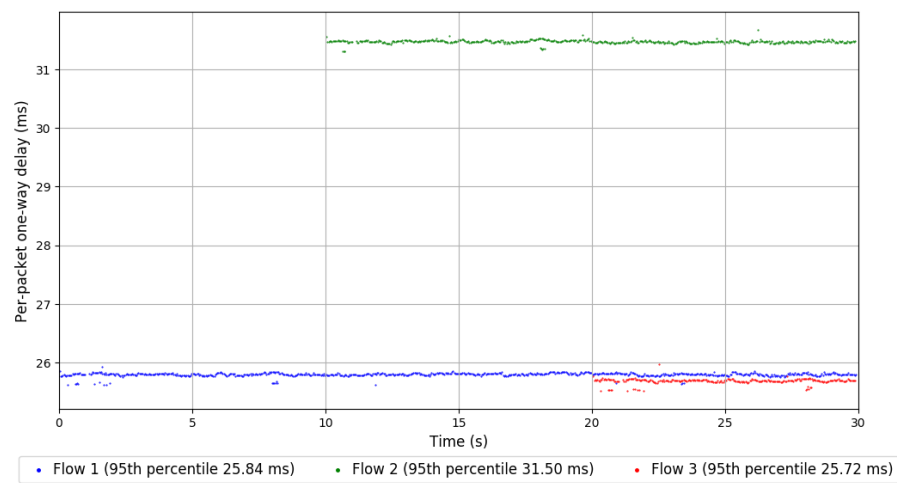
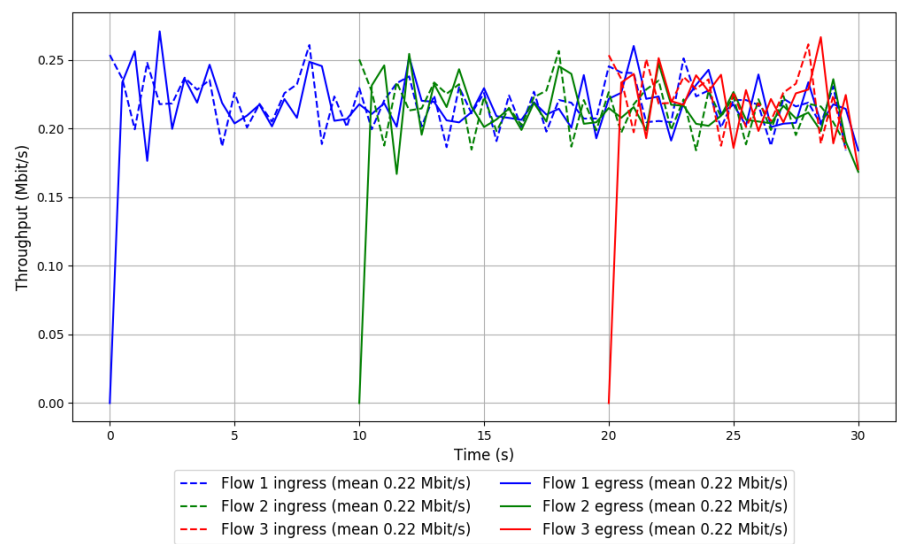
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 25.724 ms

Loss rate: 0.71%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-05-25 13:51:56

End at: 2018-05-25 13:52:26

Local clock offset: 0.563 ms

Remote clock offset: 3.211 ms

Below is generated by plot.py at 2018-05-25 15:54:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 29.827 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 29.835 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 26.340 ms

Loss rate: 0.39%

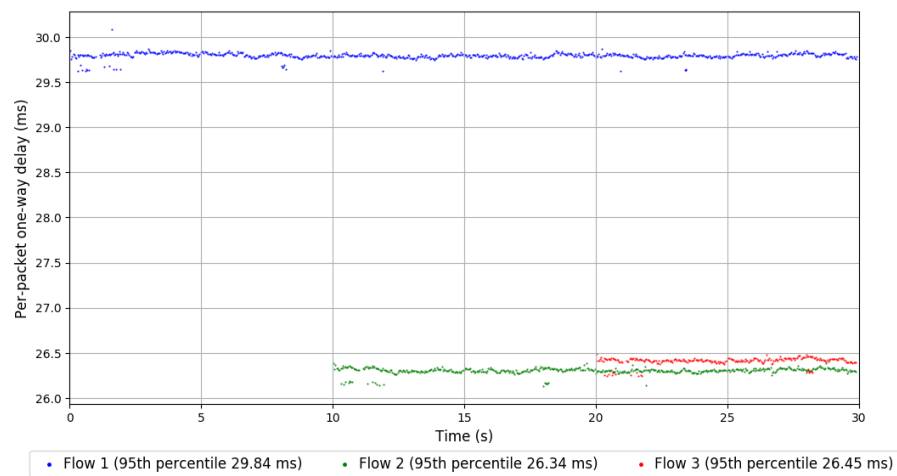
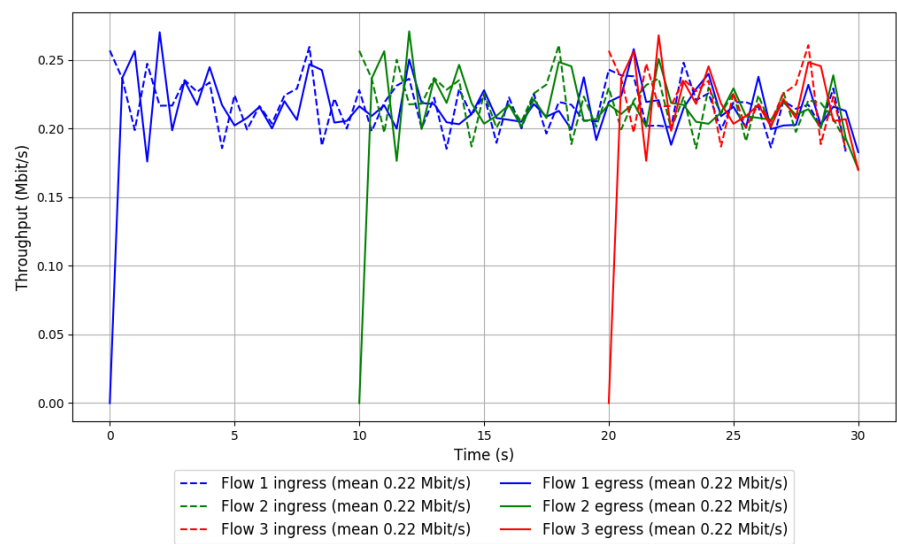
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 26.452 ms

Loss rate: 0.70%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-05-25 14:13:12

End at: 2018-05-25 14:13:42

Local clock offset: 0.228 ms

Remote clock offset: 3.036 ms

Below is generated by plot.py at 2018-05-25 15:54:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 29.900 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 26.452 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 25.753 ms

Loss rate: 0.19%

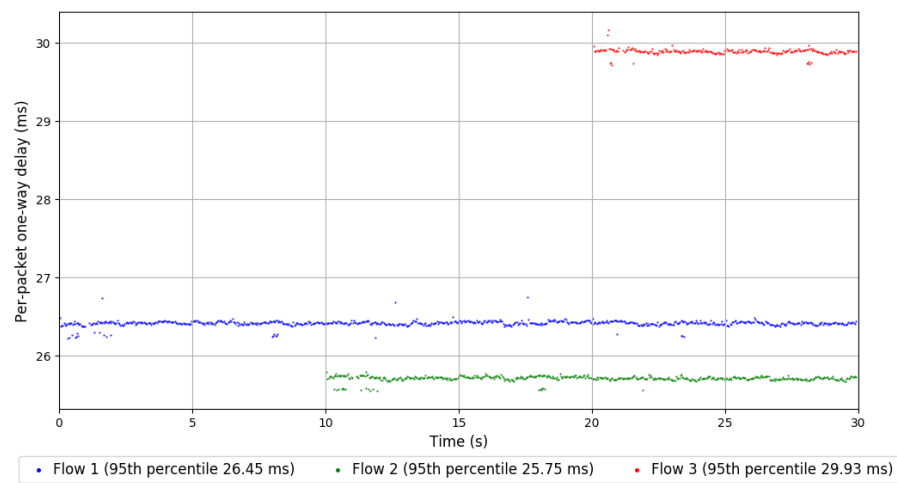
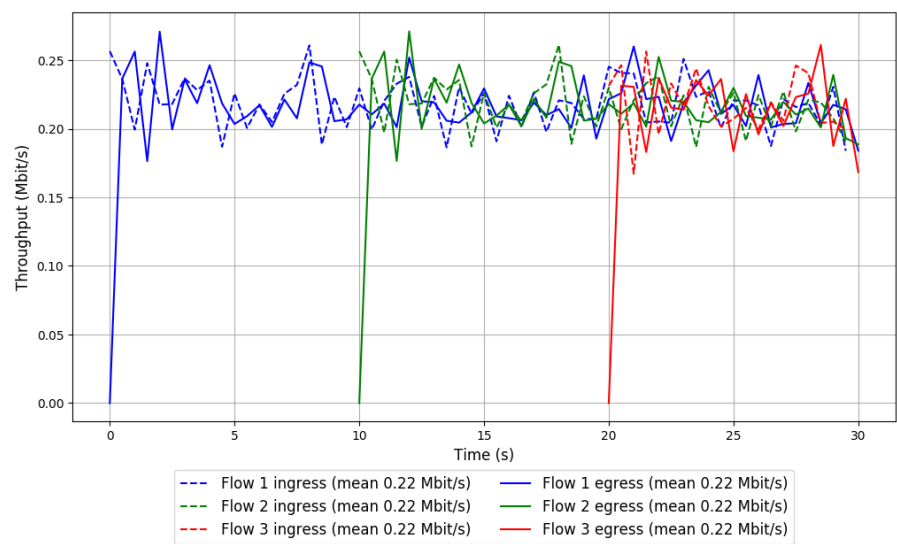
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 29.925 ms

Loss rate: 0.71%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SReAM

Start at: 2018-05-25 14:34:28

End at: 2018-05-25 14:34:58

Local clock offset: 0.139 ms

Remote clock offset: 2.979 ms

Below is generated by plot.py at 2018-05-25 15:54:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 30.874 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 26.548 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.890 ms

Loss rate: 0.40%

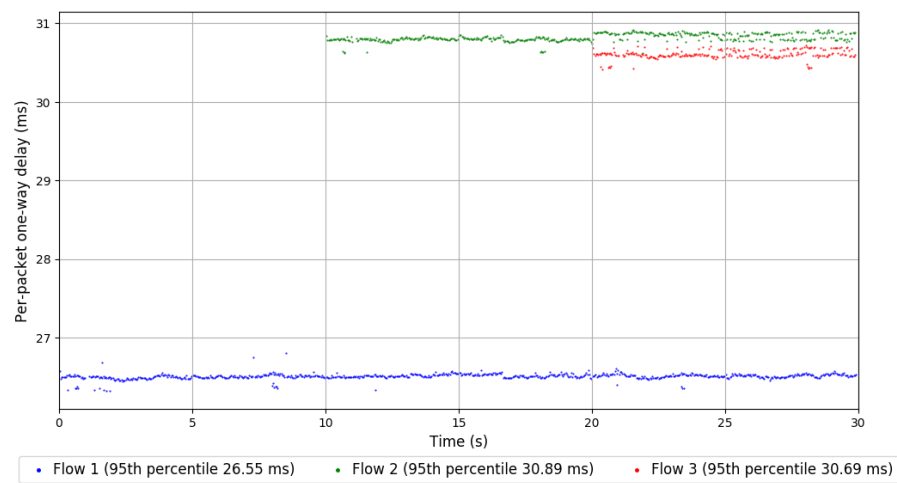
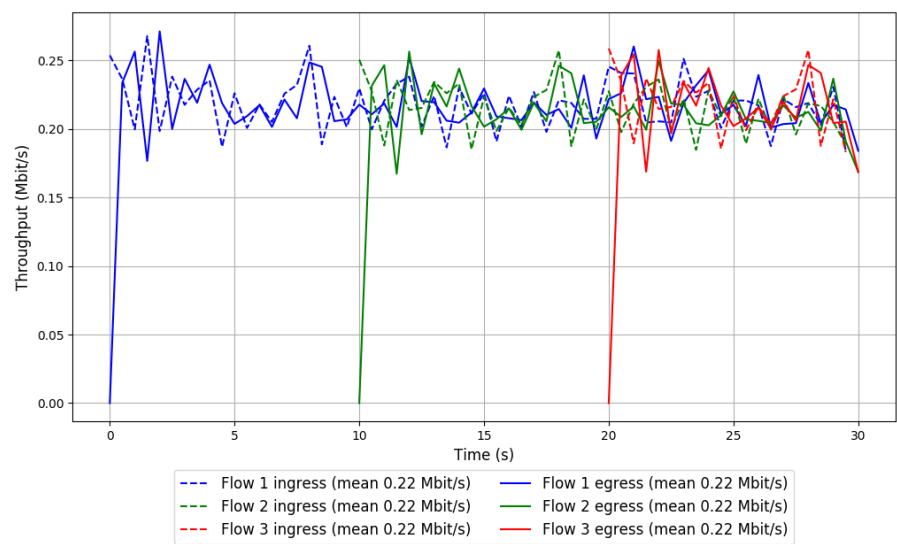
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.690 ms

Loss rate: 0.71%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-05-25 14:55:45

End at: 2018-05-25 14:56:15

Local clock offset: 0.002 ms

Remote clock offset: 0.815 ms

Below is generated by plot.py at 2018-05-25 15:54:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 32.808 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 32.818 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 27.711 ms

Loss rate: 0.19%

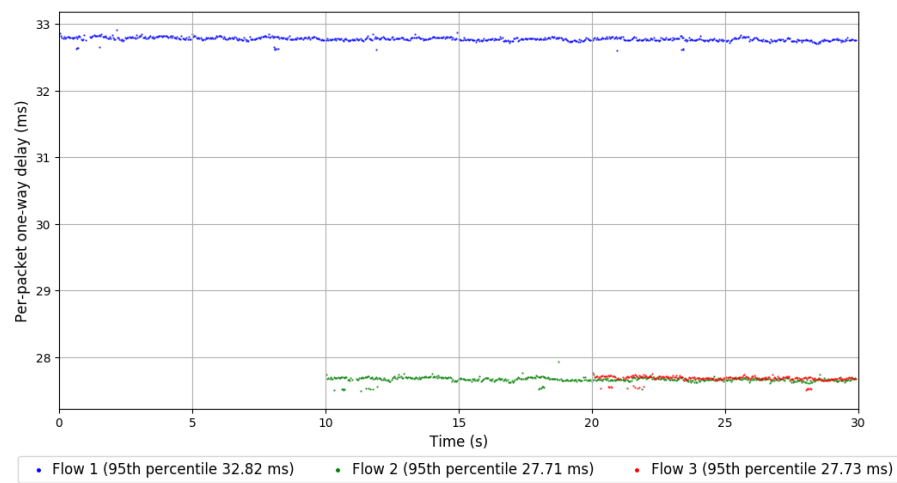
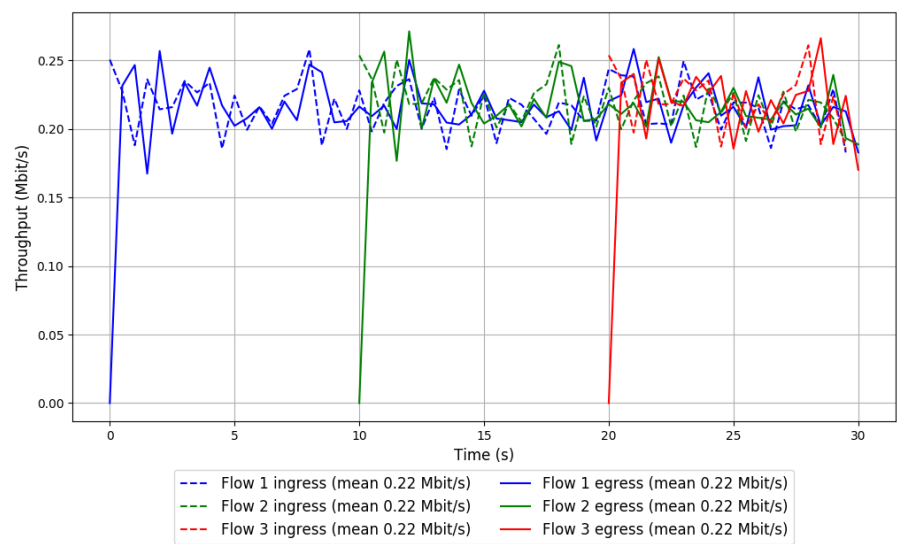
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 27.732 ms

Loss rate: 0.71%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-05-25 15:17:06

End at: 2018-05-25 15:17:36

Local clock offset: 0.591 ms

Remote clock offset: 2.478 ms

Below is generated by plot.py at 2018-05-25 15:54:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 31.537 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 25.795 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 31.551 ms

Loss rate: 0.40%

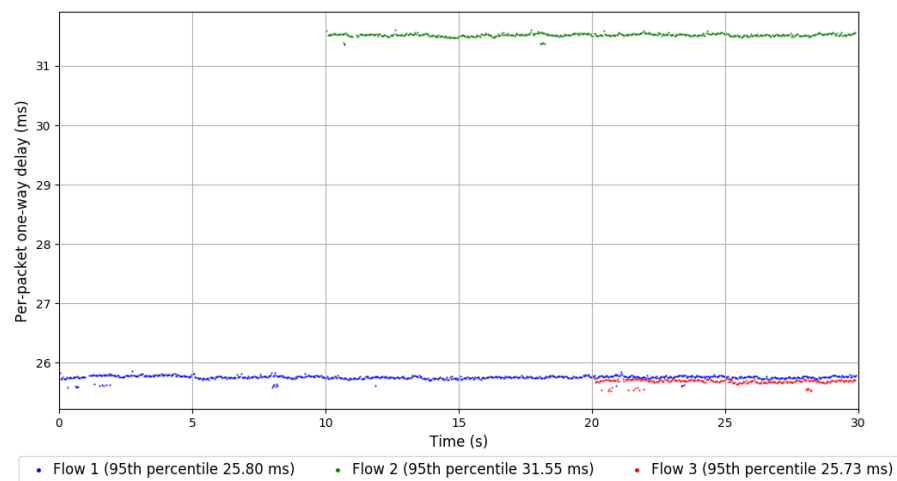
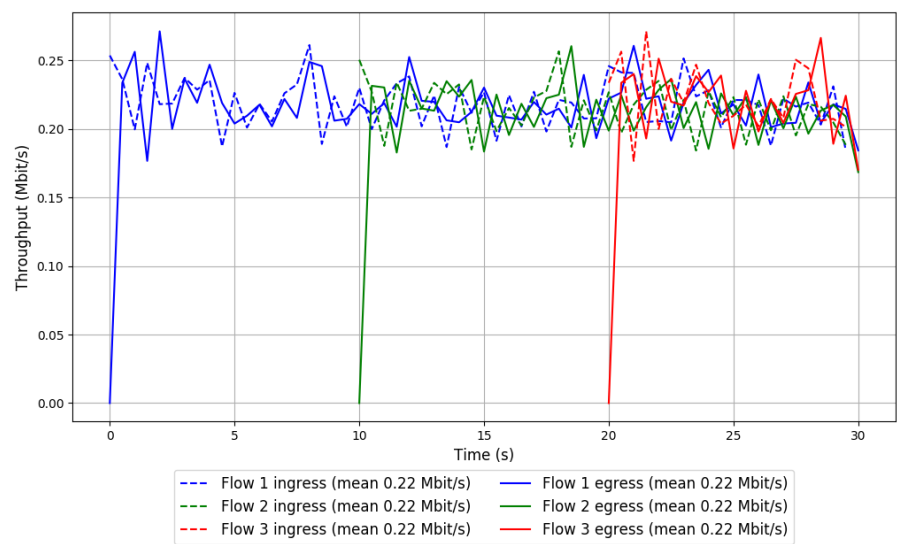
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 25.725 ms

Loss rate: 0.70%

Run 9: Report of SReAM — Data Link

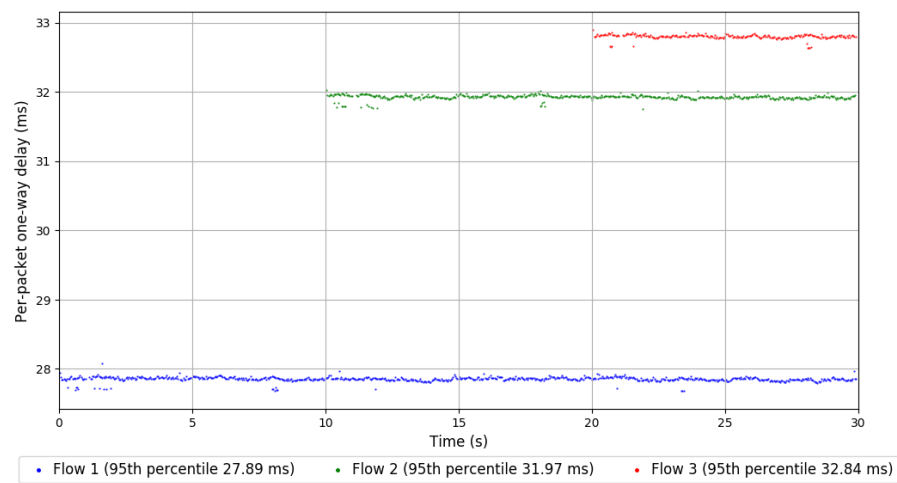
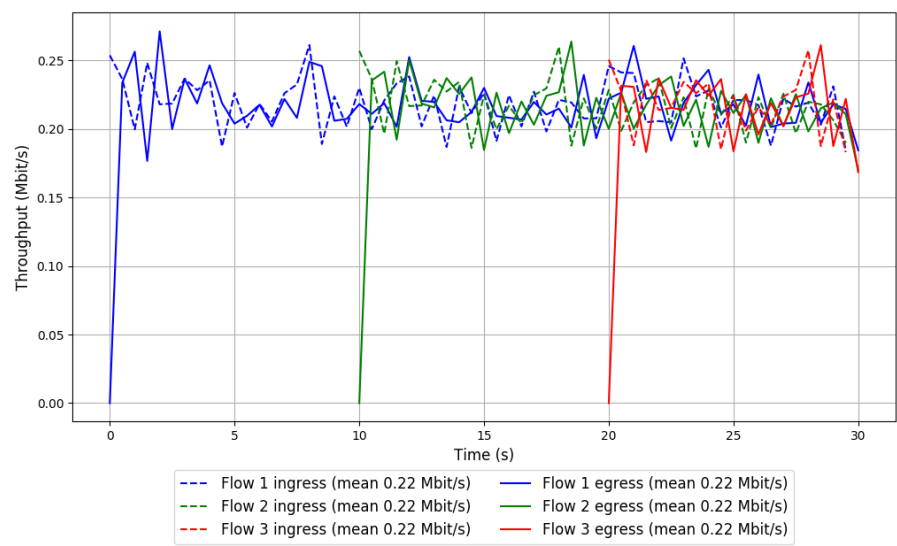


Run 10: Statistics of SCReAM

Start at: 2018-05-25 15:38:25
End at: 2018-05-25 15:38:55
Local clock offset: 0.243 ms
Remote clock offset: -0.862 ms

Below is generated by plot.py at 2018-05-25 15:54:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 32.813 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 27.890 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 31.967 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 32.838 ms
Loss rate: 0.71%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-05-25 12:07:58

End at: 2018-05-25 12:08:28

Local clock offset: 0.394 ms

Remote clock offset: 3.438 ms

Below is generated by plot.py at 2018-05-25 15:54:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 22.20 Mbit/s

95th percentile per-packet one-way delay: 37.514 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 11.19 Mbit/s

95th percentile per-packet one-way delay: 37.741 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 11.32 Mbit/s

95th percentile per-packet one-way delay: 36.803 ms

Loss rate: 0.44%

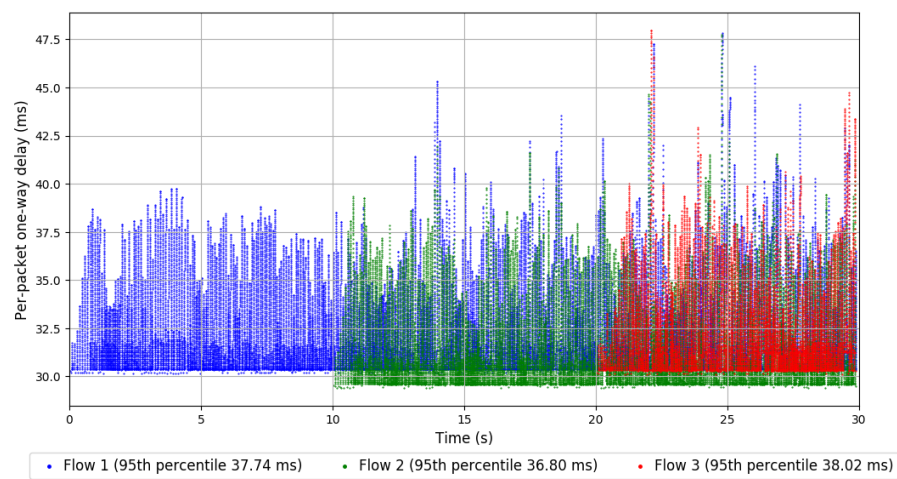
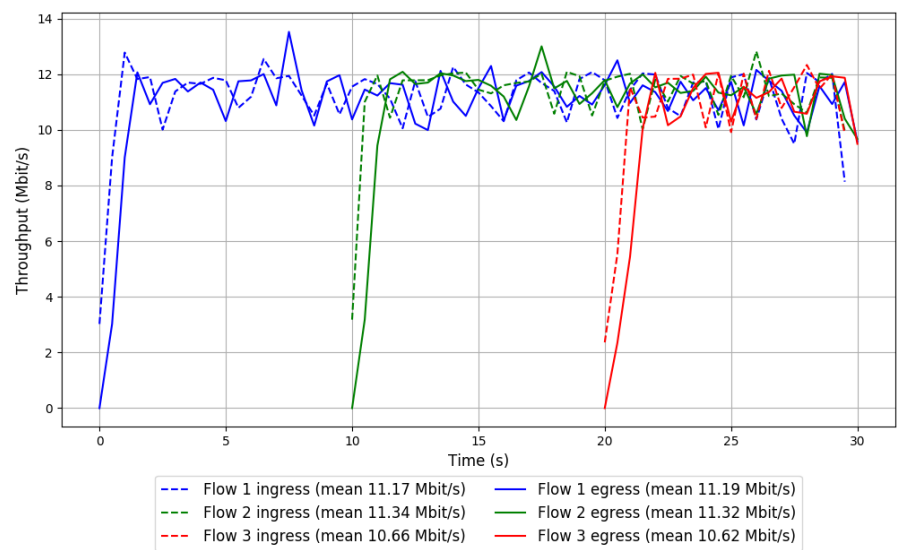
-- Flow 3:

Average throughput: 10.62 Mbit/s

95th percentile per-packet one-way delay: 38.022 ms

Loss rate: 0.95%

Run 1: Report of Sprout — Data Link

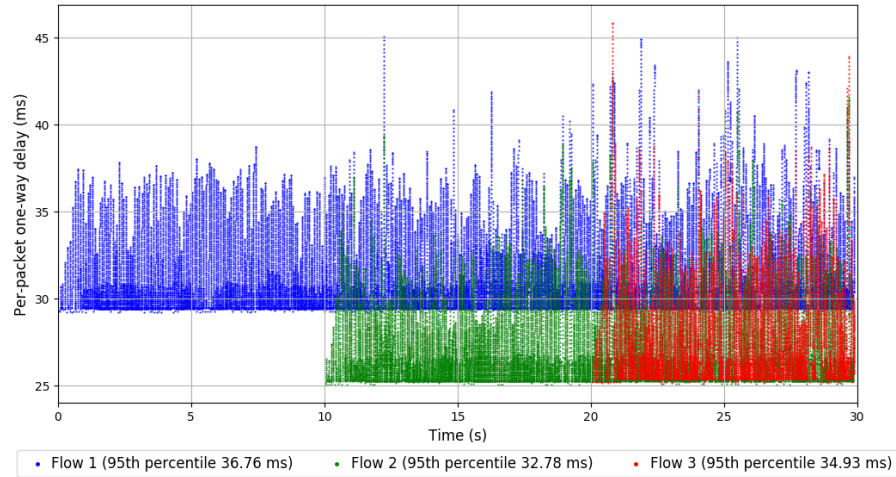
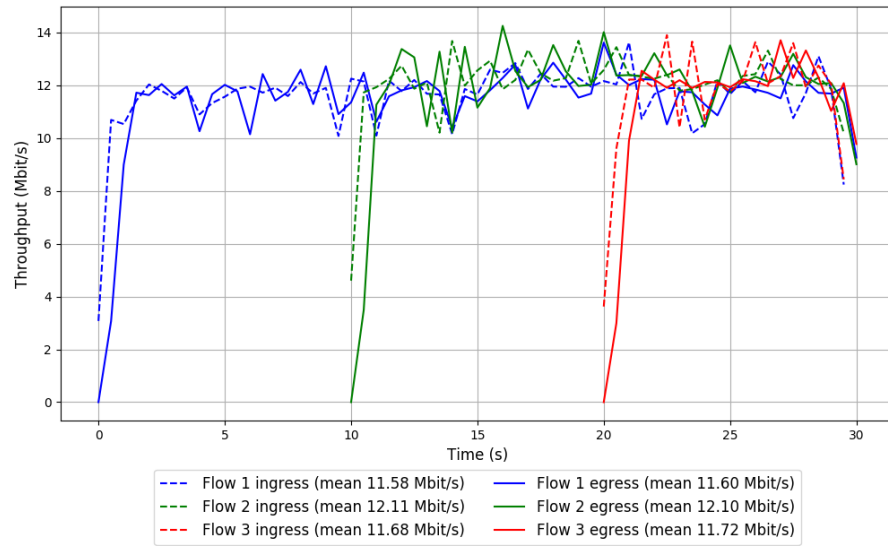


Run 2: Statistics of Sprout

Start at: 2018-05-25 12:29:13
End at: 2018-05-25 12:29:43
Local clock offset: 0.277 ms
Remote clock offset: 3.914 ms

```
# Below is generated by plot.py at 2018-05-25 15:54:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.51 Mbit/s
95th percentile per-packet one-way delay: 36.030 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 11.60 Mbit/s
95th percentile per-packet one-way delay: 36.756 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 12.10 Mbit/s
95th percentile per-packet one-way delay: 32.785 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 11.72 Mbit/s
95th percentile per-packet one-way delay: 34.926 ms
Loss rate: 0.15%
```

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-05-25 12:50:34

End at: 2018-05-25 12:51:04

Local clock offset: 0.093 ms

Remote clock offset: 3.461 ms

Below is generated by plot.py at 2018-05-25 15:54:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 22.64 Mbit/s

95th percentile per-packet one-way delay: 37.470 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 11.43 Mbit/s

95th percentile per-packet one-way delay: 37.516 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 11.11 Mbit/s

95th percentile per-packet one-way delay: 37.894 ms

Loss rate: 0.44%

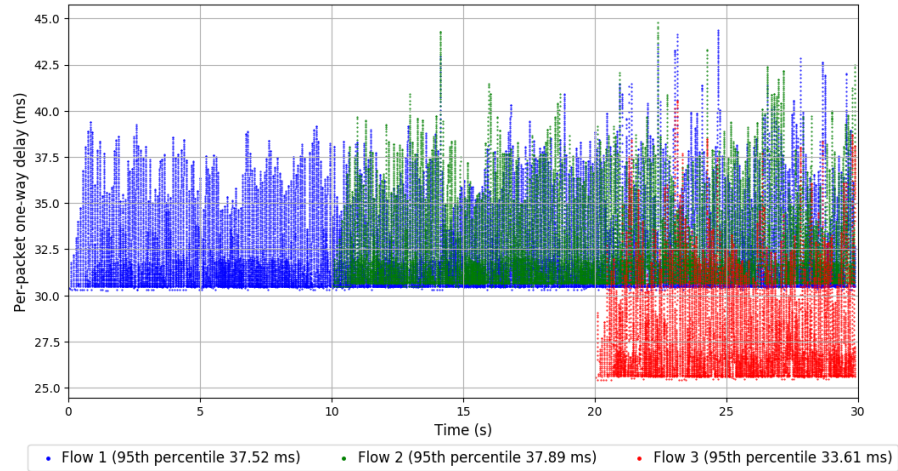
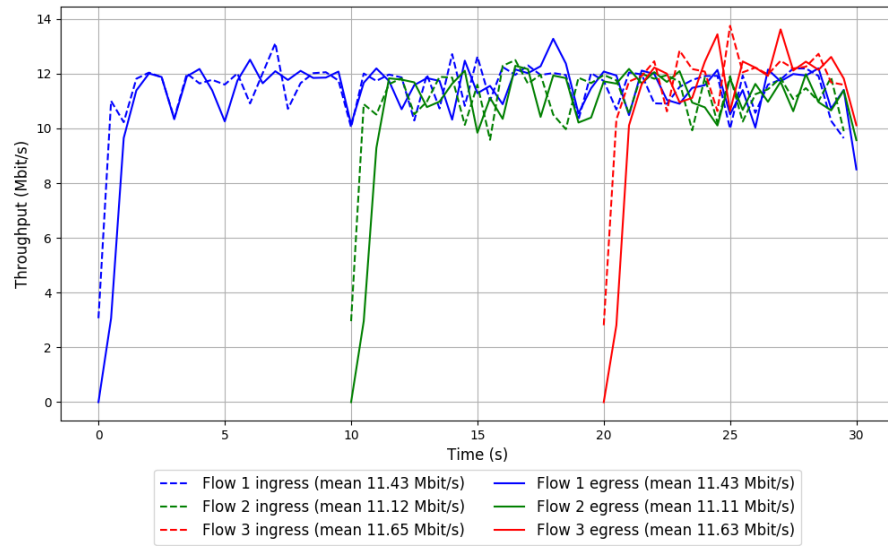
-- Flow 3:

Average throughput: 11.63 Mbit/s

95th percentile per-packet one-way delay: 33.609 ms

Loss rate: 0.72%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-05-25 13:11:55

End at: 2018-05-25 13:12:25

Local clock offset: 0.37 ms

Remote clock offset: 3.597 ms

Below is generated by plot.py at 2018-05-25 15:54:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 22.29 Mbit/s

95th percentile per-packet one-way delay: 37.453 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 11.36 Mbit/s

95th percentile per-packet one-way delay: 36.575 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 11.11 Mbit/s

95th percentile per-packet one-way delay: 37.687 ms

Loss rate: 0.36%

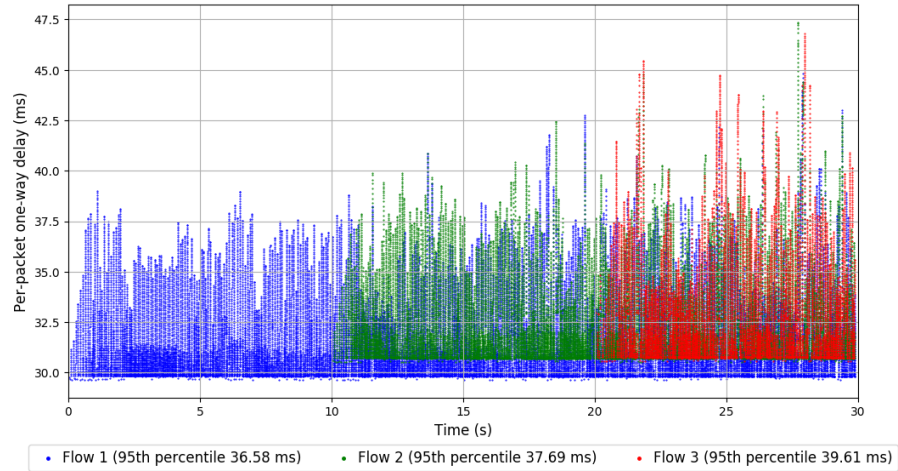
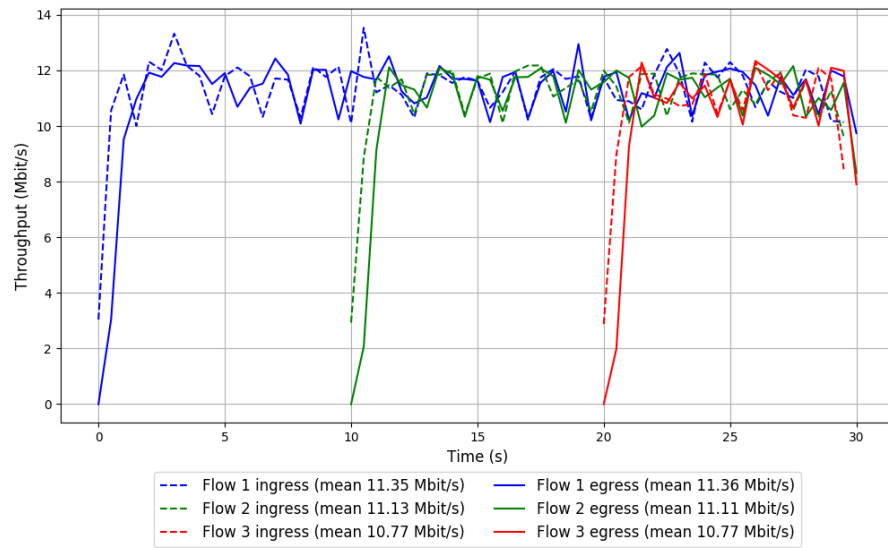
-- Flow 3:

Average throughput: 10.77 Mbit/s

95th percentile per-packet one-way delay: 39.608 ms

Loss rate: 0.25%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-05-25 13:33:17

End at: 2018-05-25 13:33:47

Local clock offset: 0.378 ms

Remote clock offset: 1.325 ms

Below is generated by plot.py at 2018-05-25 15:54:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 23.11 Mbit/s

95th percentile per-packet one-way delay: 39.173 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 11.80 Mbit/s

95th percentile per-packet one-way delay: 38.774 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 11.36 Mbit/s

95th percentile per-packet one-way delay: 40.446 ms

Loss rate: 0.45%

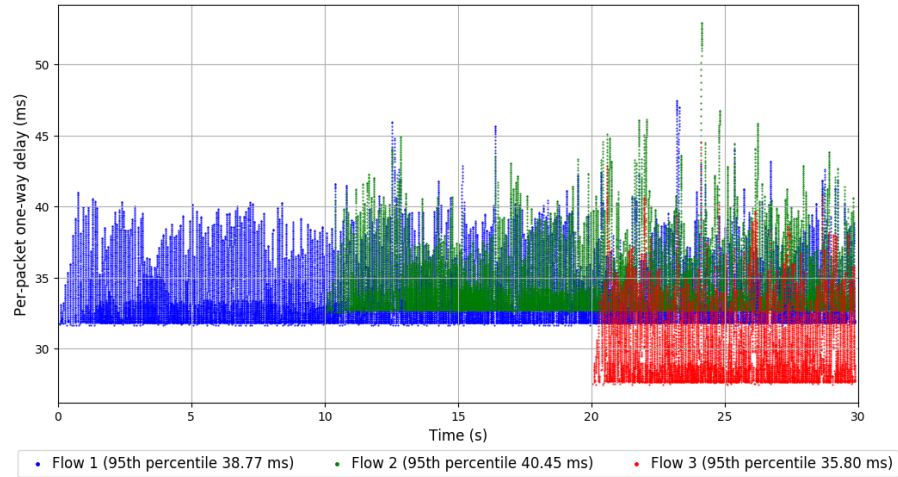
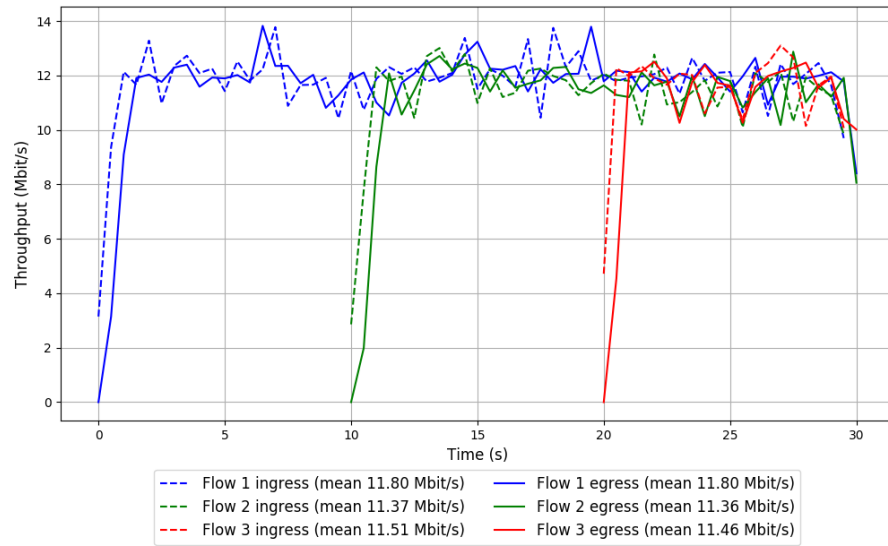
-- Flow 3:

Average throughput: 11.46 Mbit/s

95th percentile per-packet one-way delay: 35.800 ms

Loss rate: 0.71%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-05-25 13:54:32

End at: 2018-05-25 13:55:02

Local clock offset: 0.674 ms

Remote clock offset: 3.174 ms

Below is generated by plot.py at 2018-05-25 15:54:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 23.45 Mbit/s

95th percentile per-packet one-way delay: 33.920 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 11.78 Mbit/s

95th percentile per-packet one-way delay: 33.617 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 11.72 Mbit/s

95th percentile per-packet one-way delay: 34.372 ms

Loss rate: 0.42%

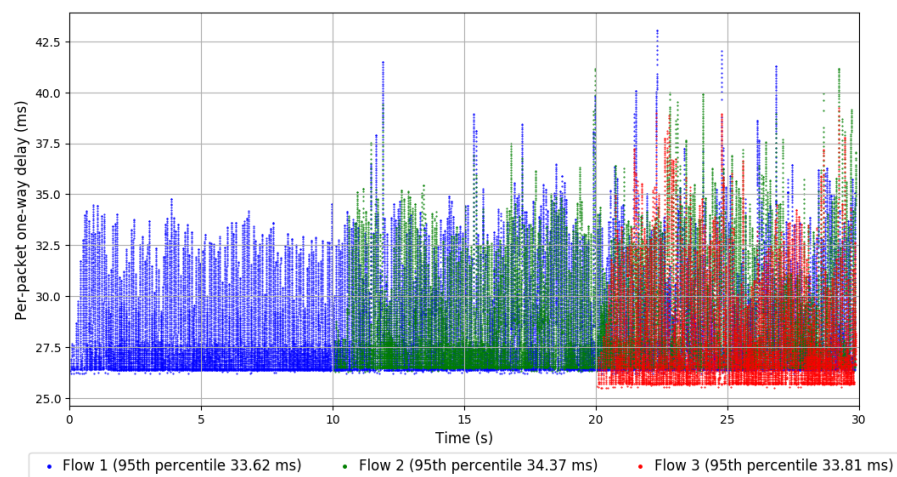
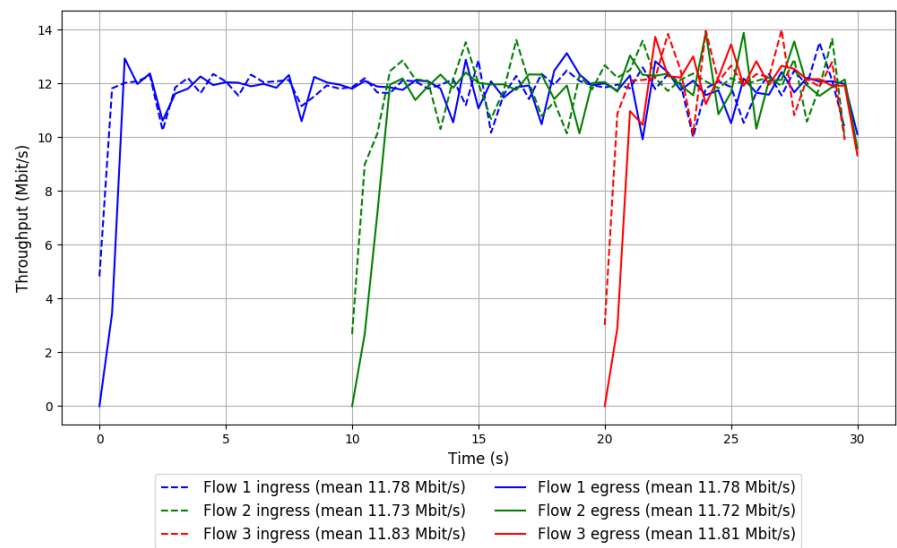
-- Flow 3:

Average throughput: 11.81 Mbit/s

95th percentile per-packet one-way delay: 33.812 ms

Loss rate: 0.75%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-05-25 14:15:48

End at: 2018-05-25 14:16:18

Local clock offset: 0.234 ms

Remote clock offset: 3.501 ms

Below is generated by plot.py at 2018-05-25 15:54:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 22.82 Mbit/s

95th percentile per-packet one-way delay: 36.806 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 11.38 Mbit/s

95th percentile per-packet one-way delay: 37.110 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 11.79 Mbit/s

95th percentile per-packet one-way delay: 34.238 ms

Loss rate: 0.35%

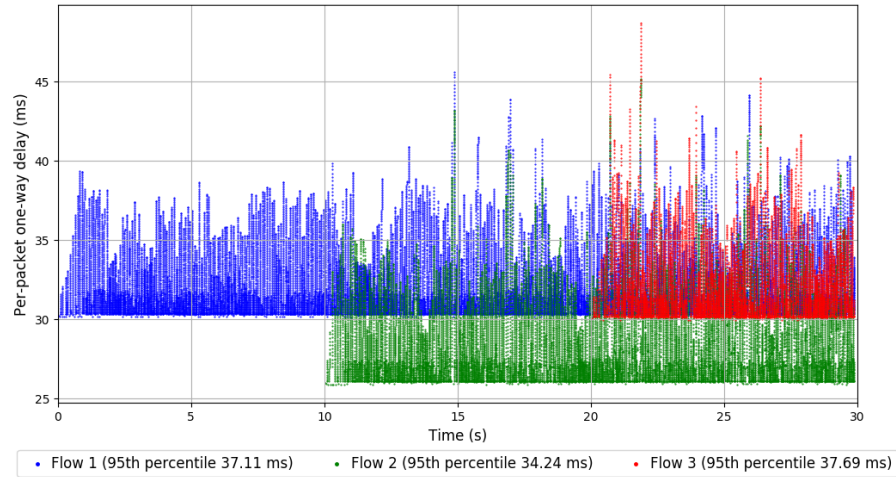
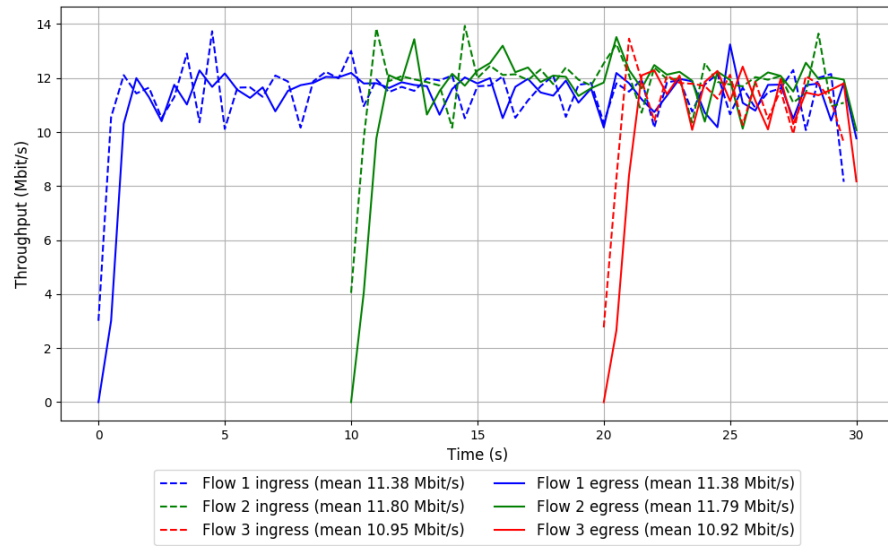
-- Flow 3:

Average throughput: 10.92 Mbit/s

95th percentile per-packet one-way delay: 37.692 ms

Loss rate: 0.79%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-05-25 14:37:04

End at: 2018-05-25 14:37:34

Local clock offset: 0.046 ms

Remote clock offset: 2.964 ms

Below is generated by plot.py at 2018-05-25 15:54:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 22.85 Mbit/s

95th percentile per-packet one-way delay: 37.767 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 11.65 Mbit/s

95th percentile per-packet one-way delay: 36.947 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 11.38 Mbit/s

95th percentile per-packet one-way delay: 38.061 ms

Loss rate: 0.39%

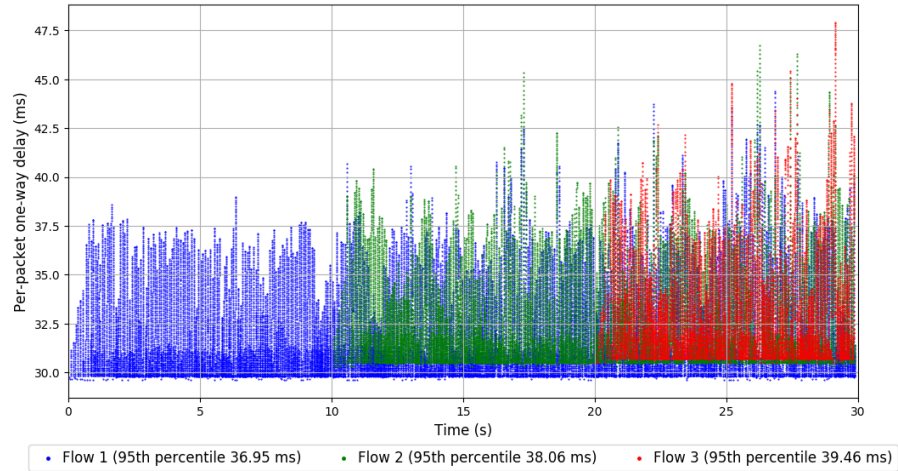
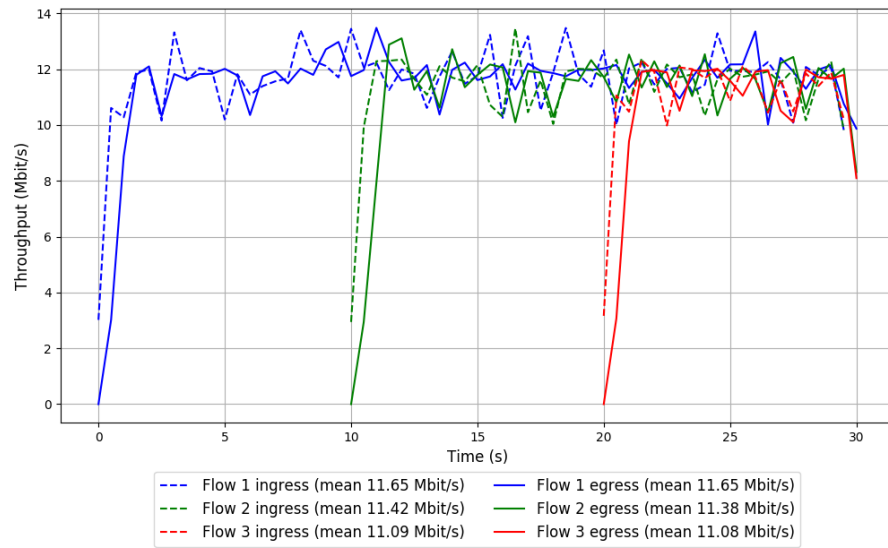
-- Flow 3:

Average throughput: 11.08 Mbit/s

95th percentile per-packet one-way delay: 39.460 ms

Loss rate: 1.01%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-05-25 14:58:21

End at: 2018-05-25 14:58:51

Local clock offset: 0.217 ms

Remote clock offset: 3.267 ms

Below is generated by plot.py at 2018-05-25 15:54:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 22.36 Mbit/s

95th percentile per-packet one-way delay: 38.057 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 11.17 Mbit/s

95th percentile per-packet one-way delay: 38.290 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 11.50 Mbit/s

95th percentile per-packet one-way delay: 37.143 ms

Loss rate: 0.38%

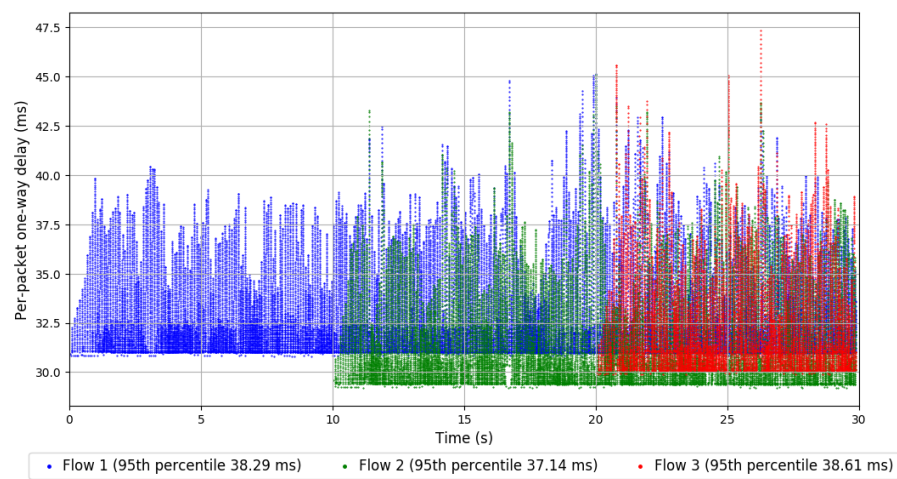
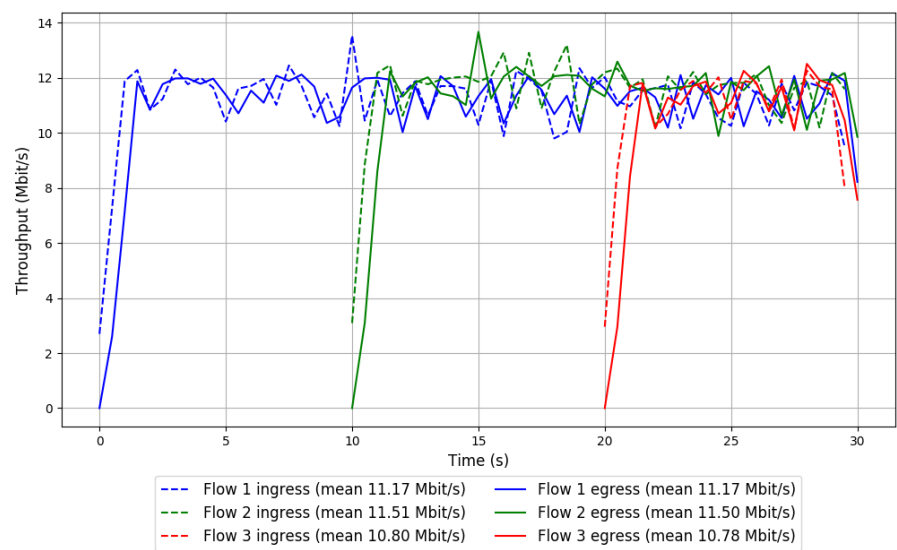
-- Flow 3:

Average throughput: 10.78 Mbit/s

95th percentile per-packet one-way delay: 38.608 ms

Loss rate: 0.87%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-05-25 15:19:43

End at: 2018-05-25 15:20:13

Local clock offset: 0.589 ms

Remote clock offset: 2.449 ms

Below is generated by plot.py at 2018-05-25 15:54:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 22.81 Mbit/s

95th percentile per-packet one-way delay: 36.873 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 11.53 Mbit/s

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

Loss rate: 0.28%

-- Flow 2:

Average throughput: 11.46 Mbit/s

95th percentile per-packet one-way delay: 36.942 ms

Loss rate: 0.10%

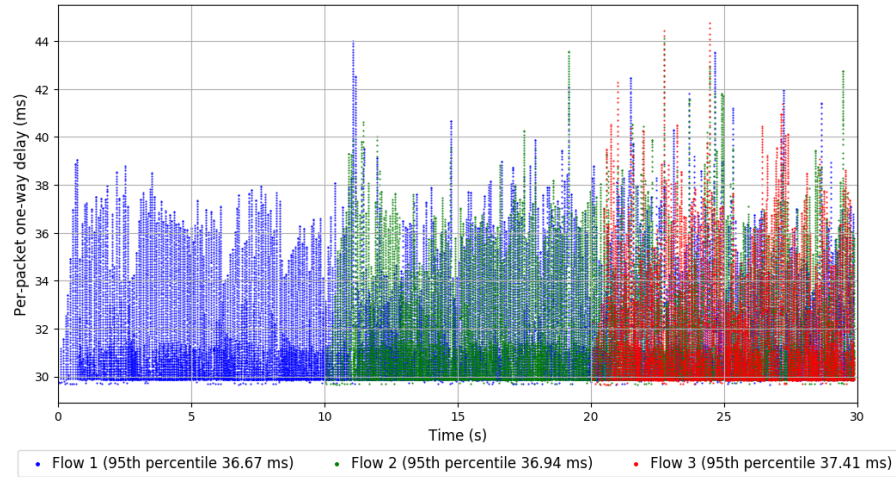
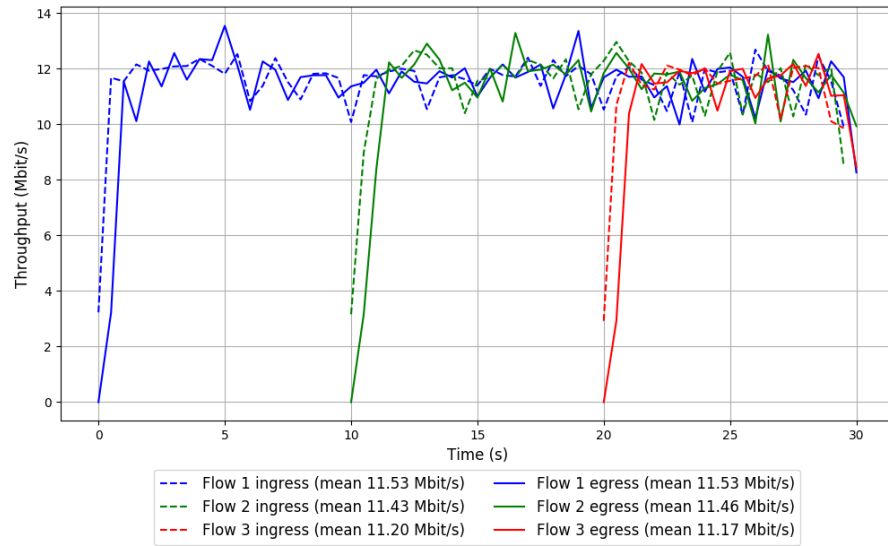
-- Flow 3:

Average throughput: 11.17 Mbit/s

95th percentile per-packet one-way delay: 37.409 ms

Loss rate: 0.77%

Run 10: Report of Sprout — Data Link

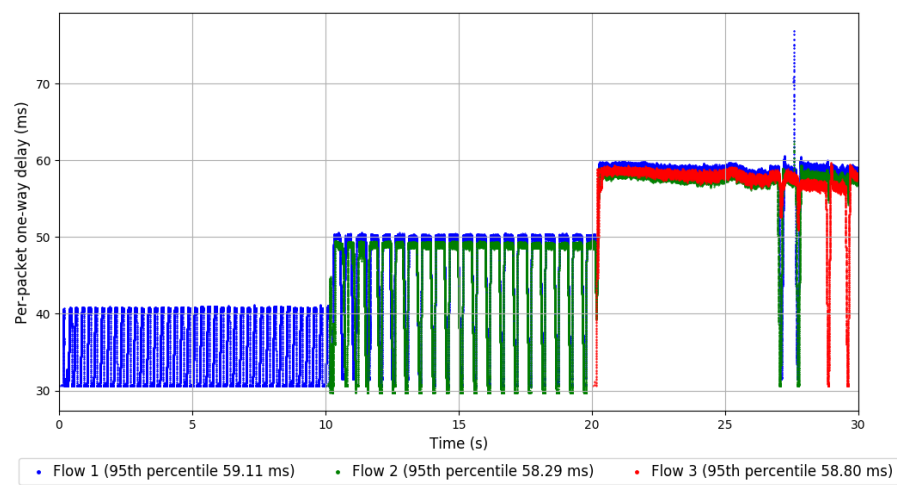
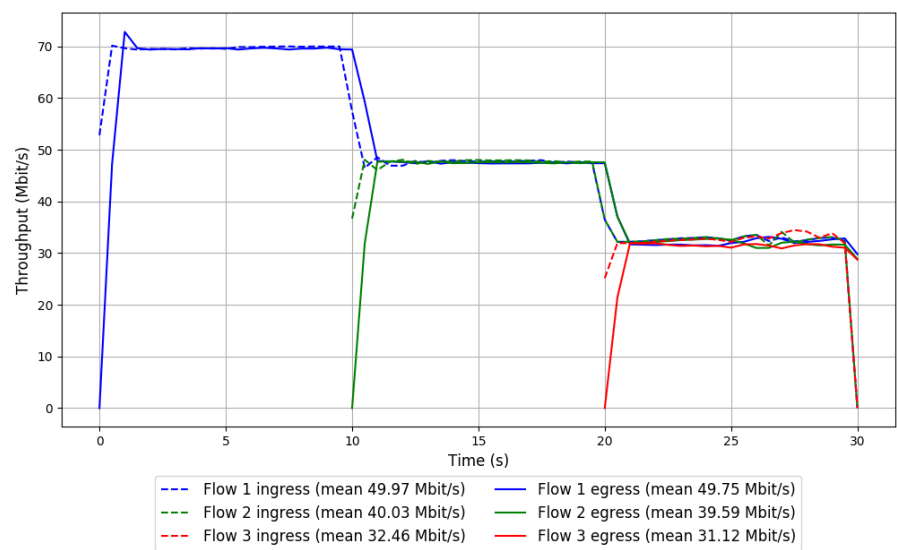


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-05-25 12:17:12
End at: 2018-05-25 12:17:42
Local clock offset: 0.302 ms
Remote clock offset: 3.143 ms

# Below is generated by plot.py at 2018-05-25 15:56:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.41 Mbit/s
95th percentile per-packet one-way delay: 58.930 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 49.75 Mbit/s
95th percentile per-packet one-way delay: 59.106 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 39.59 Mbit/s
95th percentile per-packet one-way delay: 58.286 ms
Loss rate: 1.47%
-- Flow 3:
Average throughput: 31.12 Mbit/s
95th percentile per-packet one-way delay: 58.801 ms
Loss rate: 4.86%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-05-25 12:38:30

End at: 2018-05-25 12:39:00

Local clock offset: 0.062 ms

Remote clock offset: 3.673 ms

Below is generated by plot.py at 2018-05-25 15:56:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.42 Mbit/s

95th percentile per-packet one-way delay: 68.093 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 54.61 Mbit/s

95th percentile per-packet one-way delay: 50.073 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 35.84 Mbit/s

95th percentile per-packet one-way delay: 63.865 ms

Loss rate: 1.10%

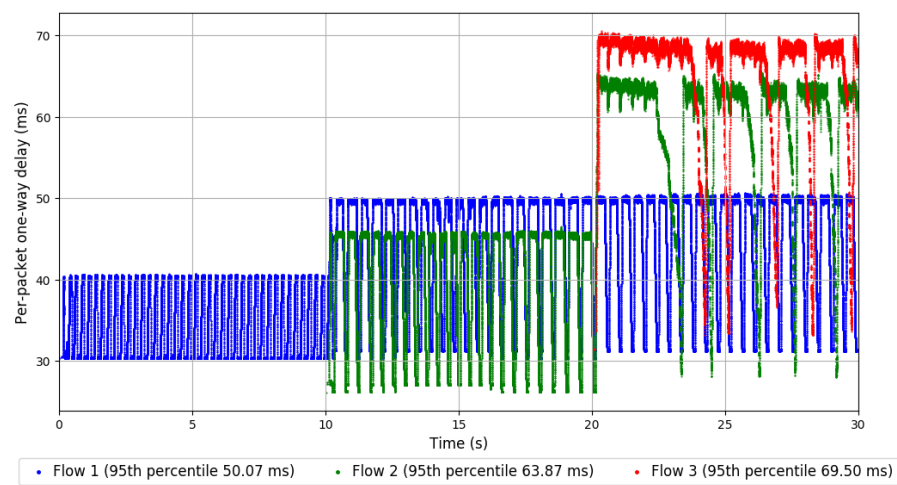
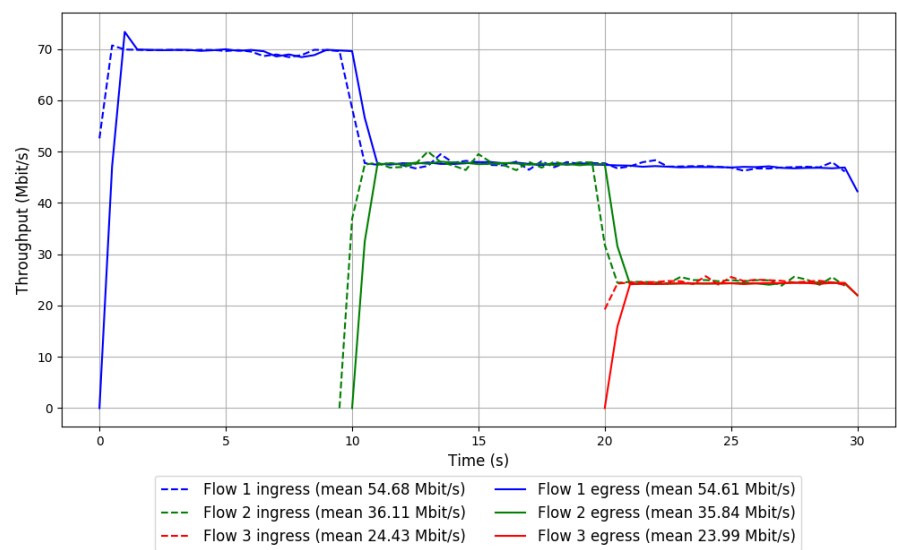
-- Flow 3:

Average throughput: 23.99 Mbit/s

95th percentile per-packet one-way delay: 69.505 ms

Loss rate: 2.62%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-05-25 12:59:50

End at: 2018-05-25 13:00:20

Local clock offset: 0.143 ms

Remote clock offset: 1.374 ms

Below is generated by plot.py at 2018-05-25 15:56:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.27 Mbit/s

95th percentile per-packet one-way delay: 60.778 ms

Loss rate: 1.58%

-- Flow 1:

Average throughput: 49.73 Mbit/s

95th percentile per-packet one-way delay: 56.775 ms

Loss rate: 0.88%

-- Flow 2:

Average throughput: 39.31 Mbit/s

95th percentile per-packet one-way delay: 61.236 ms

Loss rate: 1.98%

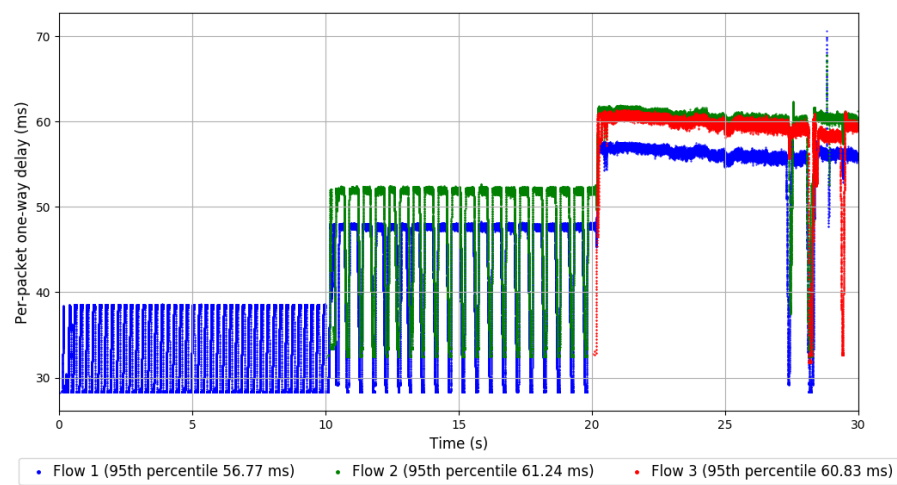
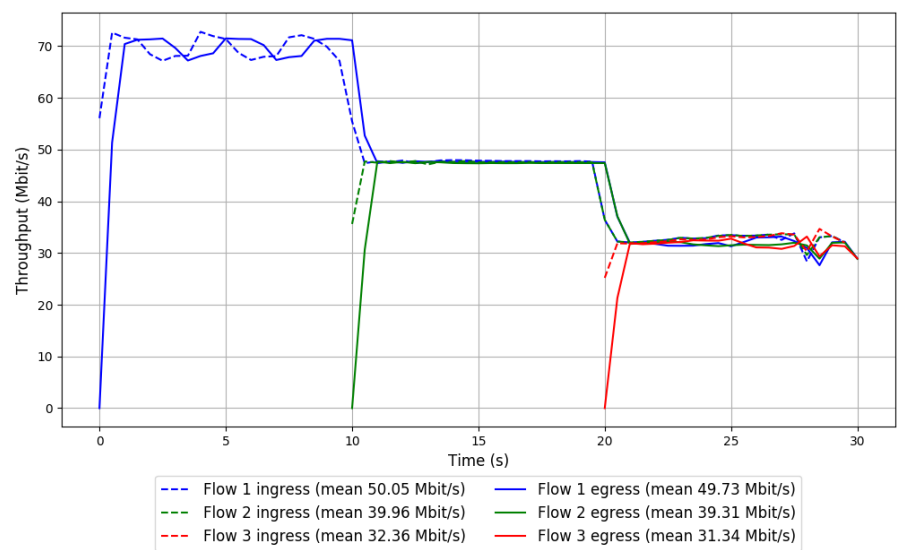
-- Flow 3:

Average throughput: 31.34 Mbit/s

95th percentile per-packet one-way delay: 60.830 ms

Loss rate: 3.86%

Run 3: Report of TaoVA-100x — Data Link



Run 4: Statistics of TaoVA-100x

Start at: 2018-05-25 13:21:13

End at: 2018-05-25 13:21:43

Local clock offset: 0.395 ms

Remote clock offset: 3.405 ms

Below is generated by plot.py at 2018-05-25 15:56:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.75 Mbit/s

95th percentile per-packet one-way delay: 54.614 ms

Loss rate: 1.50%

-- Flow 1:

Average throughput: 50.00 Mbit/s

95th percentile per-packet one-way delay: 54.761 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 39.45 Mbit/s

95th percentile per-packet one-way delay: 54.289 ms

Loss rate: 1.99%

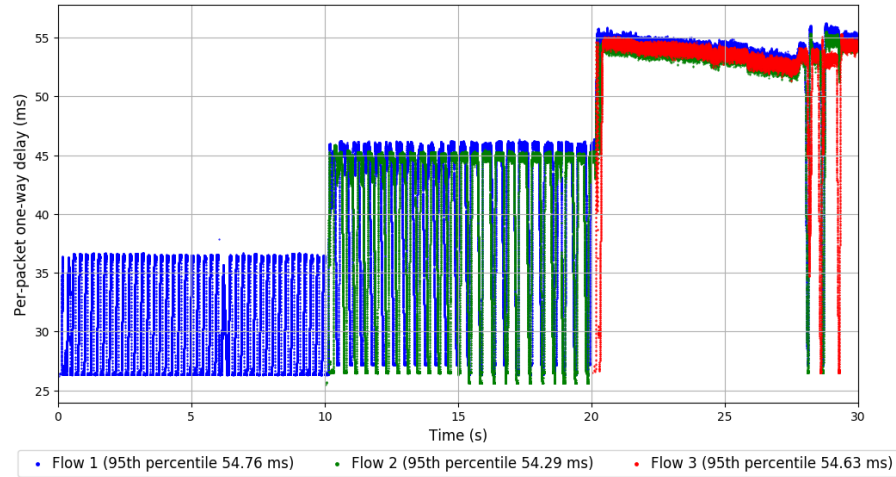
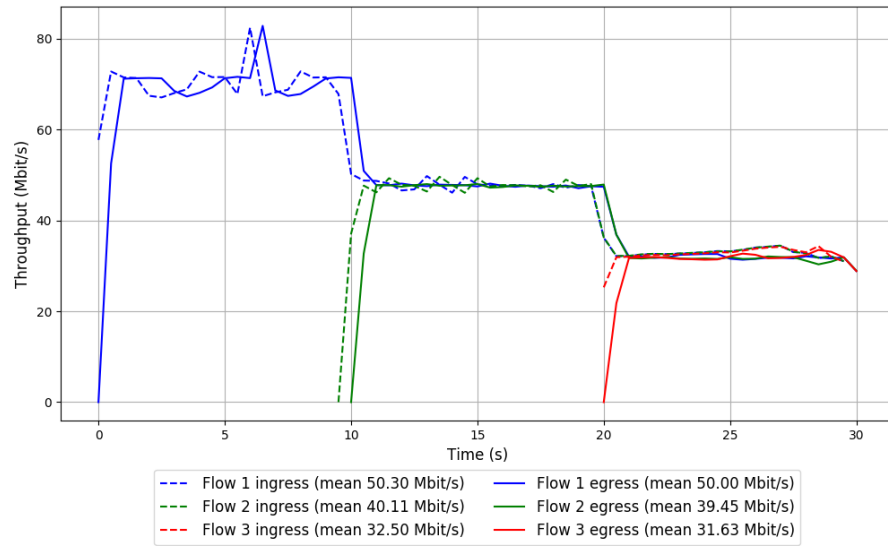
-- Flow 3:

Average throughput: 31.63 Mbit/s

95th percentile per-packet one-way delay: 54.626 ms

Loss rate: 3.39%

Run 4: Report of TaoVA-100x — Data Link



Run 5: Statistics of TaoVA-100x

Start at: 2018-05-25 13:42:32

End at: 2018-05-25 13:43:02

Local clock offset: 0.568 ms

Remote clock offset: 3.543 ms

Below is generated by plot.py at 2018-05-25 15:56:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.24 Mbit/s

95th percentile per-packet one-way delay: 67.974 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 47.98 Mbit/s

95th percentile per-packet one-way delay: 67.698 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 47.01 Mbit/s

95th percentile per-packet one-way delay: 46.133 ms

Loss rate: 0.60%

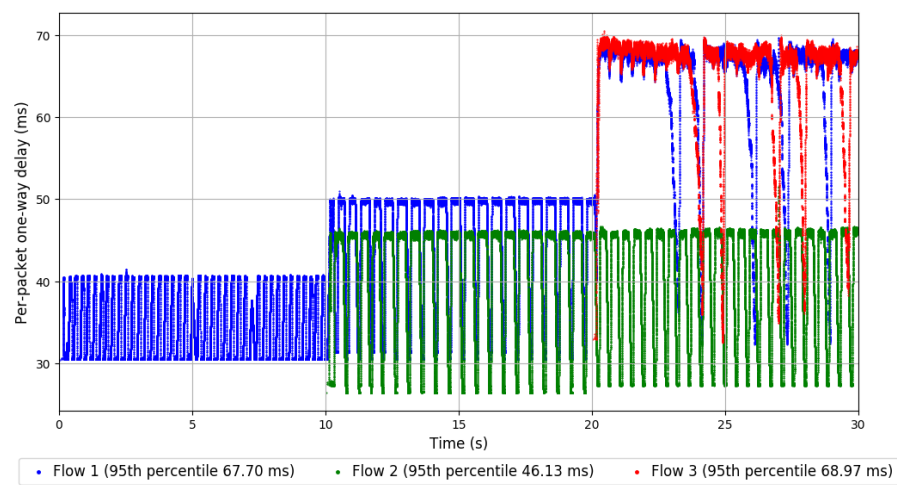
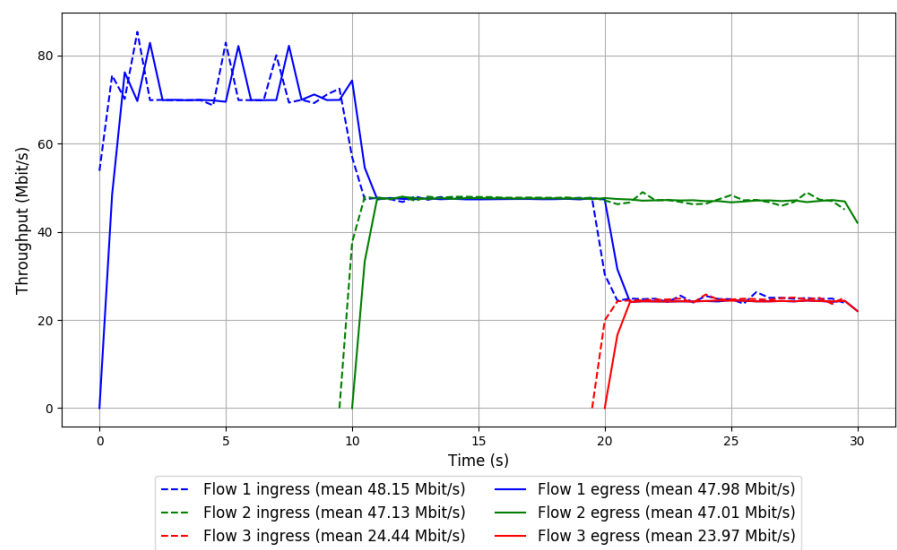
-- Flow 3:

Average throughput: 23.97 Mbit/s

95th percentile per-packet one-way delay: 68.973 ms

Loss rate: 2.73%

Run 5: Report of TaoVA-100x — Data Link



Run 6: Statistics of TaoVA-100x

Start at: 2018-05-25 14:03:48

End at: 2018-05-25 14:04:18

Local clock offset: 0.29 ms

Remote clock offset: 3.079 ms

Below is generated by plot.py at 2018-05-25 15:56:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.73 Mbit/s

95th percentile per-packet one-way delay: 59.369 ms

Loss rate: 1.92%

-- Flow 1:

Average throughput: 49.88 Mbit/s

95th percentile per-packet one-way delay: 59.322 ms

Loss rate: 1.22%

-- Flow 2:

Average throughput: 39.59 Mbit/s

95th percentile per-packet one-way delay: 59.486 ms

Loss rate: 2.19%

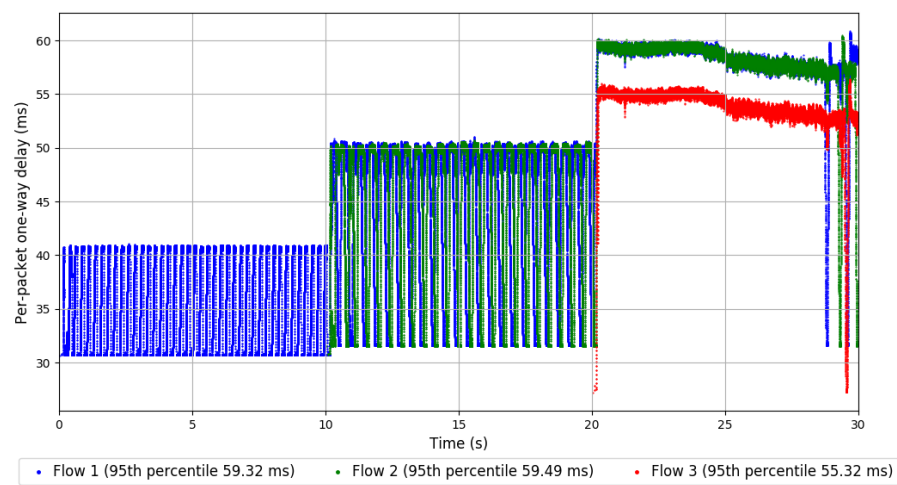
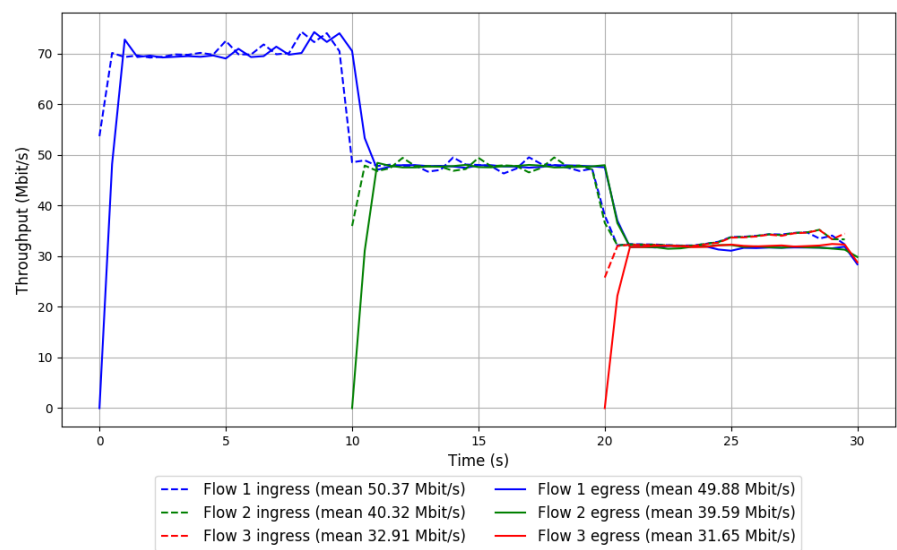
-- Flow 3:

Average throughput: 31.65 Mbit/s

95th percentile per-packet one-way delay: 55.323 ms

Loss rate: 4.50%

Run 6: Report of TaoVA-100x — Data Link



Run 7: Statistics of TaoVA-100x

Start at: 2018-05-25 14:25:02

End at: 2018-05-25 14:25:32

Local clock offset: 0.191 ms

Remote clock offset: 1.025 ms

Below is generated by plot.py at 2018-05-25 15:56:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.46 Mbit/s

95th percentile per-packet one-way delay: 61.848 ms

Loss rate: 1.47%

-- Flow 1:

Average throughput: 49.77 Mbit/s

95th percentile per-packet one-way delay: 61.293 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 39.37 Mbit/s

95th percentile per-packet one-way delay: 62.323 ms

Loss rate: 1.83%

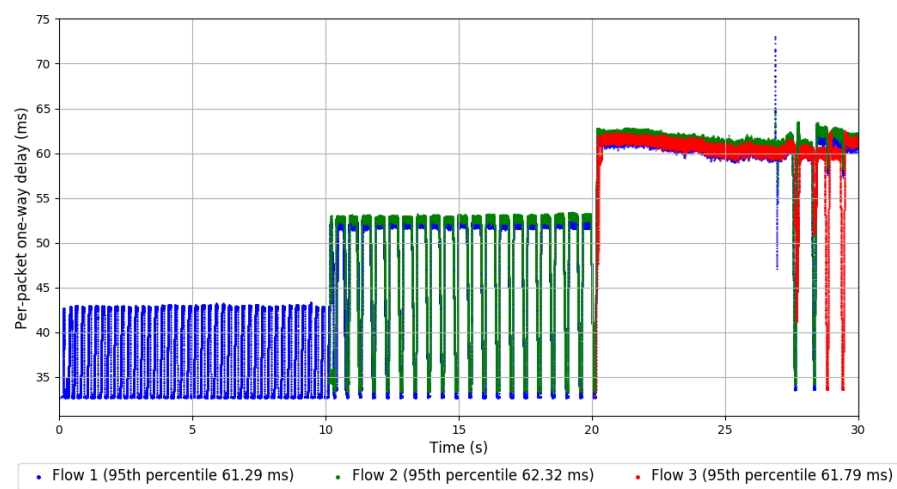
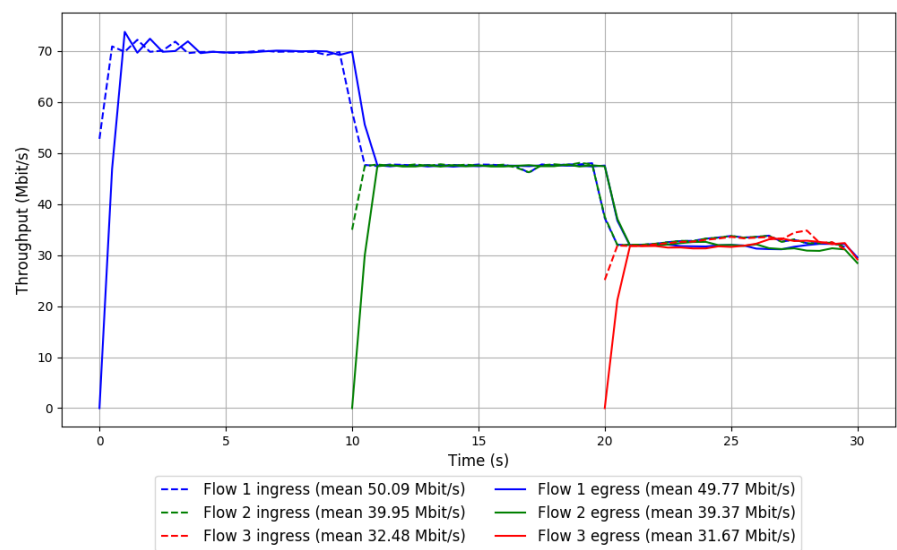
-- Flow 3:

Average throughput: 31.67 Mbit/s

95th percentile per-packet one-way delay: 61.793 ms

Loss rate: 3.24%

Run 7: Report of TaoVA-100x — Data Link



Run 8: Statistics of TaoVA-100x

Start at: 2018-05-25 14:46:20

End at: 2018-05-25 14:46:50

Local clock offset: 0.106 ms

Remote clock offset: 0.977 ms

Below is generated by plot.py at 2018-05-25 15:56:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.60 Mbit/s

95th percentile per-packet one-way delay: 66.018 ms

Loss rate: 0.82%

-- Flow 1:

Average throughput: 47.29 Mbit/s

95th percentile per-packet one-way delay: 65.970 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 35.88 Mbit/s

95th percentile per-packet one-way delay: 66.353 ms

Loss rate: 1.17%

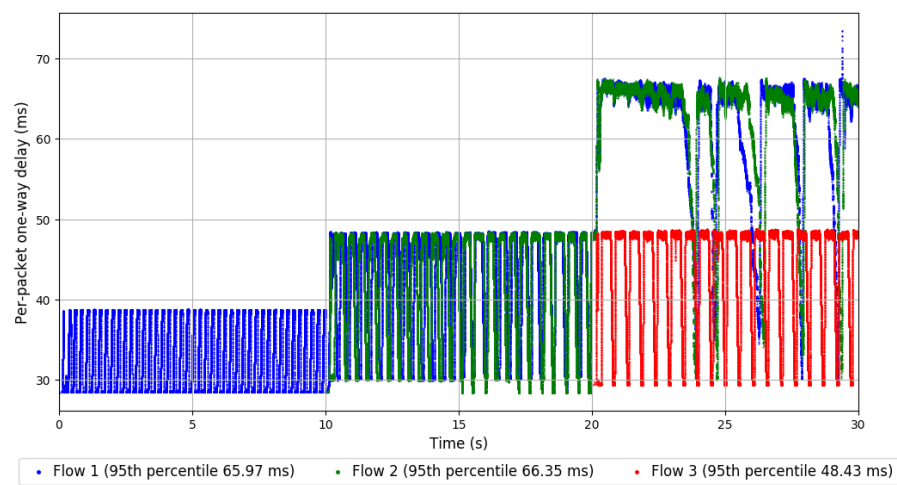
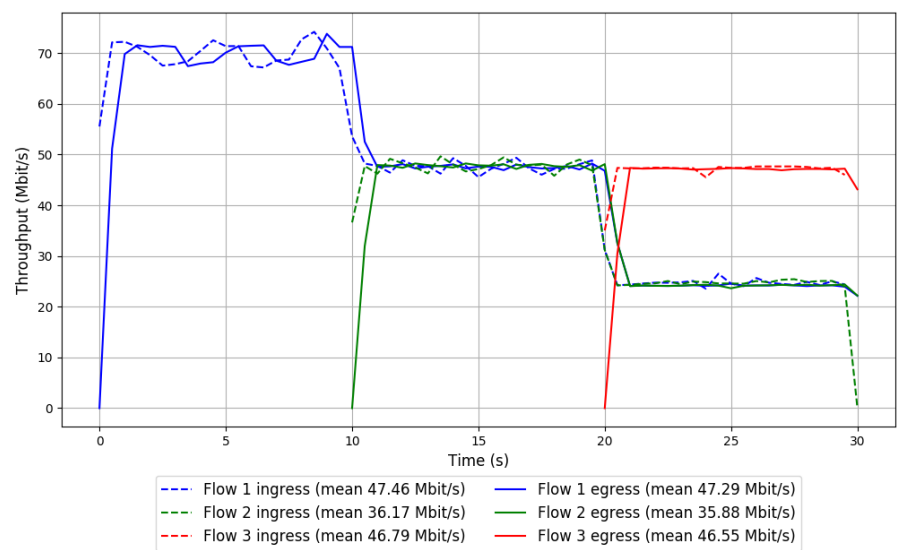
-- Flow 3:

Average throughput: 46.55 Mbit/s

95th percentile per-packet one-way delay: 48.430 ms

Loss rate: 1.09%

Run 8: Report of TaoVA-100x — Data Link



Run 9: Statistics of TaoVA-100x

Start at: 2018-05-25 15:07:38

End at: 2018-05-25 15:08:08

Local clock offset: 0.507 ms

Remote clock offset: 2.591 ms

Below is generated by plot.py at 2018-05-25 15:57:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.32 Mbit/s

95th percentile per-packet one-way delay: 59.351 ms

Loss rate: 1.52%

-- Flow 1:

Average throughput: 49.53 Mbit/s

95th percentile per-packet one-way delay: 58.415 ms

Loss rate: 1.08%

-- Flow 2:

Average throughput: 39.61 Mbit/s

95th percentile per-packet one-way delay: 59.497 ms

Loss rate: 1.40%

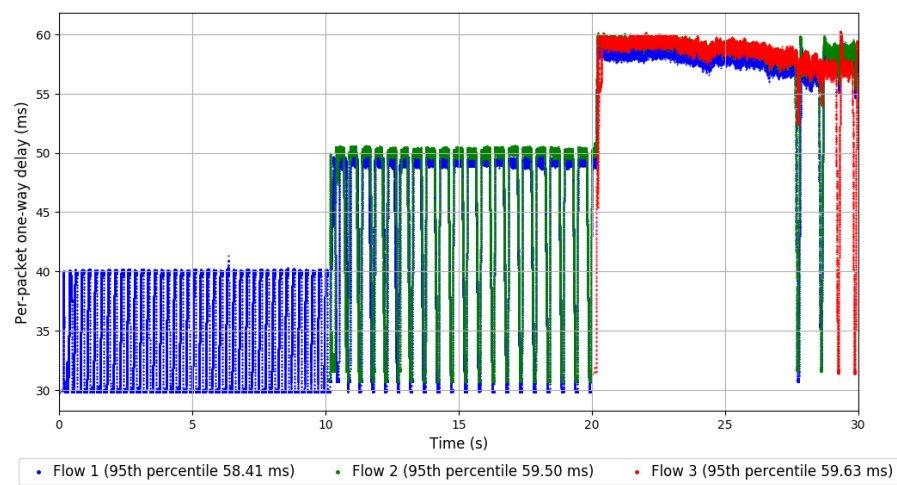
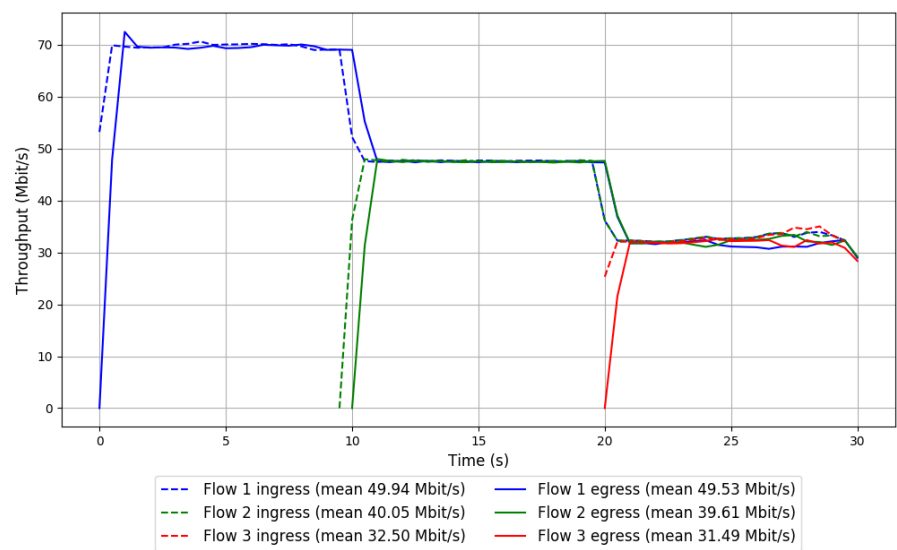
-- Flow 3:

Average throughput: 31.49 Mbit/s

95th percentile per-packet one-way delay: 59.635 ms

Loss rate: 3.83%

Run 9: Report of TaoVA-100x — Data Link



Run 10: Statistics of TaoVA-100x

Start at: 2018-05-25 15:28:59

End at: 2018-05-25 15:29:29

Local clock offset: 0.43 ms

Remote clock offset: 0.198 ms

Below is generated by plot.py at 2018-05-25 15:58:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.50 Mbit/s

95th percentile per-packet one-way delay: 60.060 ms

Loss rate: 1.49%

-- Flow 1:

Average throughput: 49.98 Mbit/s

95th percentile per-packet one-way delay: 56.238 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 39.31 Mbit/s

95th percentile per-packet one-way delay: 60.515 ms

Loss rate: 1.98%

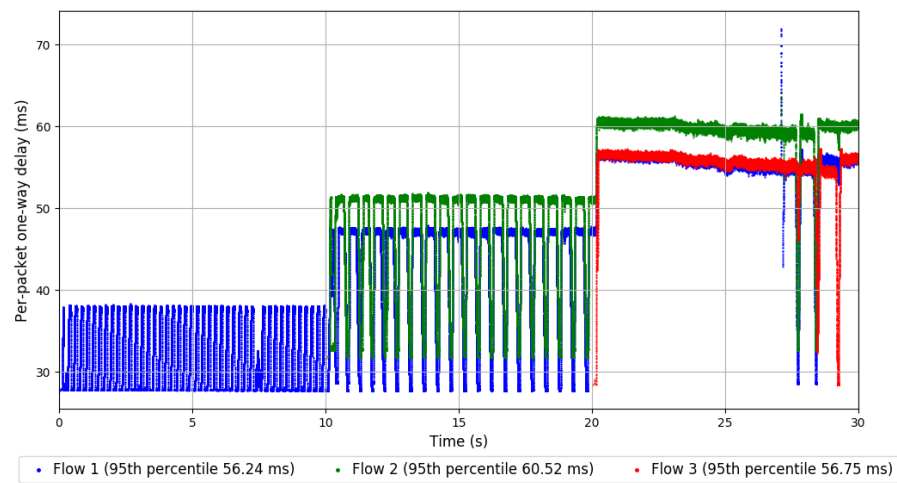
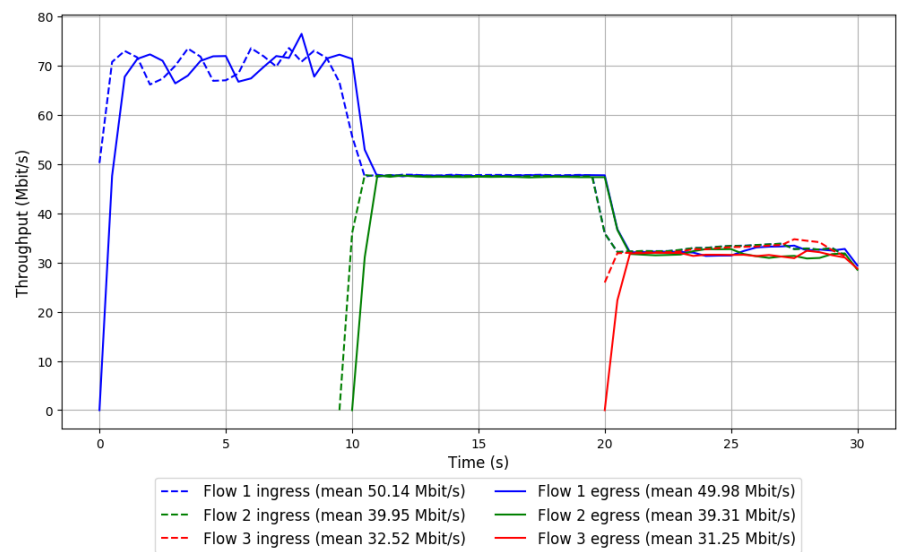
-- Flow 3:

Average throughput: 31.25 Mbit/s

95th percentile per-packet one-way delay: 56.747 ms

Loss rate: 4.61%

Run 10: Report of TaoVA-100x — Data Link



Run 1: Statistics of TCP Vegas

Start at: 2018-05-25 12:14:31

End at: 2018-05-25 12:15:01

Local clock offset: 0.384 ms

Remote clock offset: 3.031 ms

Below is generated by plot.py at 2018-05-25 15:58:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.03 Mbit/s

95th percentile per-packet one-way delay: 32.257 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 48.92 Mbit/s

95th percentile per-packet one-way delay: 31.974 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 47.99 Mbit/s

95th percentile per-packet one-way delay: 29.469 ms

Loss rate: 0.29%

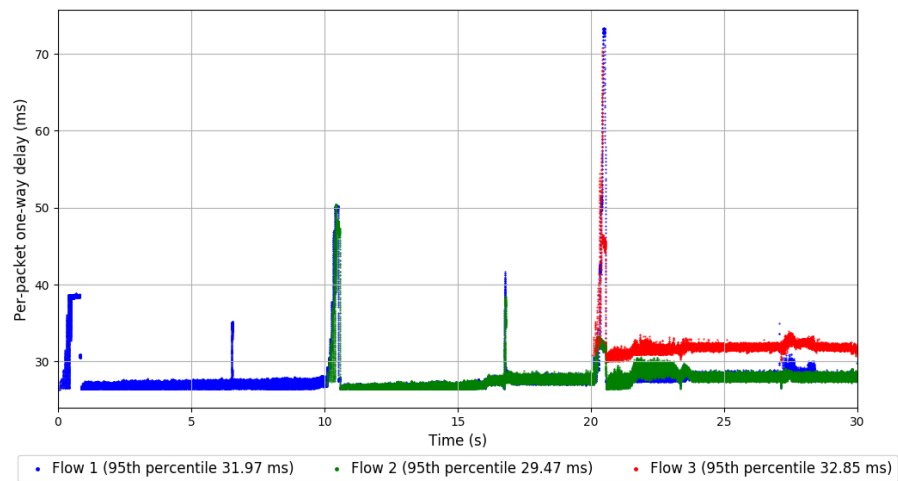
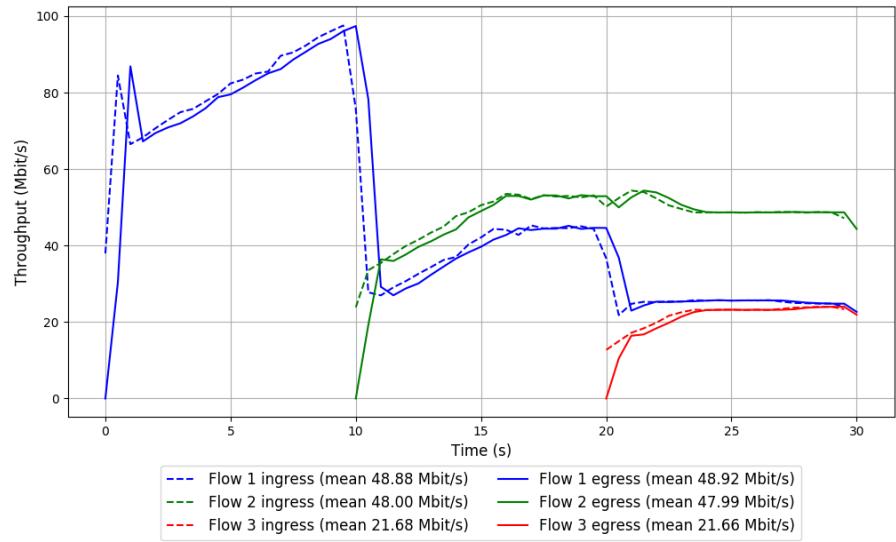
-- Flow 3:

Average throughput: 21.66 Mbit/s

95th percentile per-packet one-way delay: 32.846 ms

Loss rate: 0.70%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-05-25 12:35:48

End at: 2018-05-25 12:36:18

Local clock offset: 0.181 ms

Remote clock offset: 1.567 ms

Below is generated by plot.py at 2018-05-25 15:58:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.32 Mbit/s

95th percentile per-packet one-way delay: 36.162 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 47.89 Mbit/s

95th percentile per-packet one-way delay: 33.728 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 46.65 Mbit/s

95th percentile per-packet one-way delay: 36.330 ms

Loss rate: 0.33%

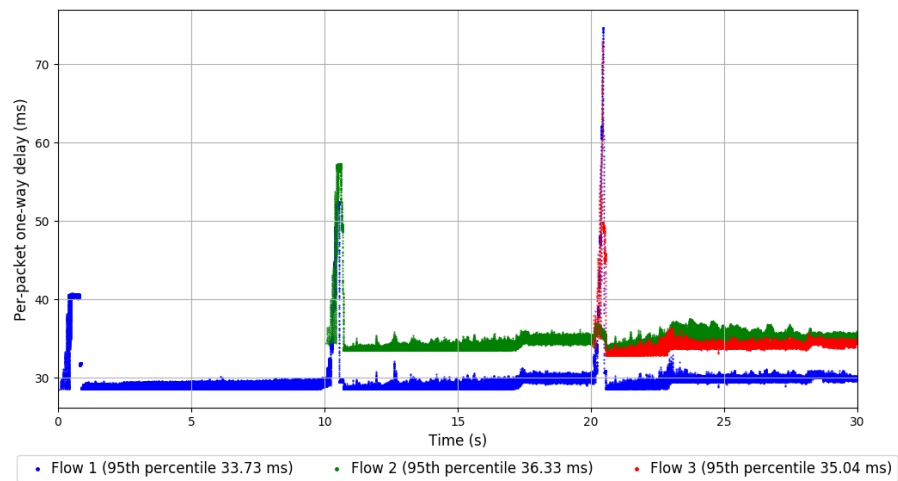
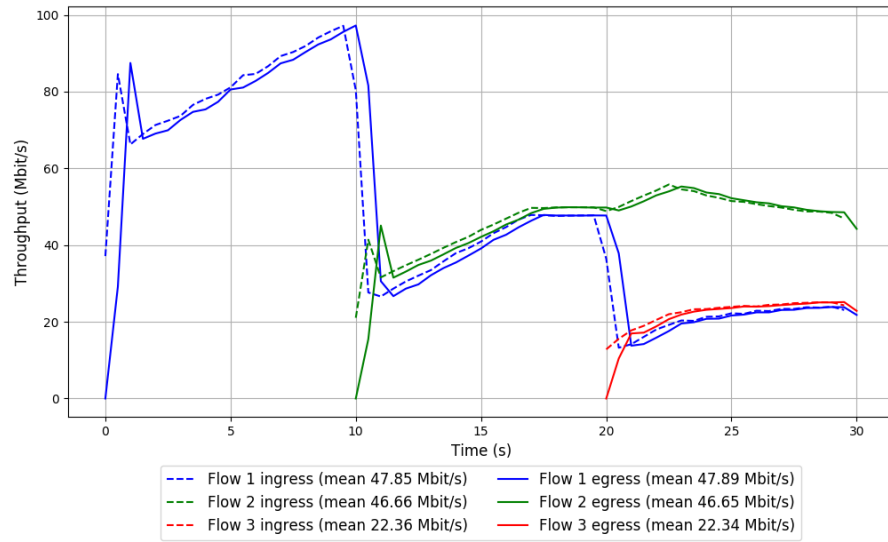
-- Flow 3:

Average throughput: 22.34 Mbit/s

95th percentile per-packet one-way delay: 35.037 ms

Loss rate: 0.71%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-05-25 12:57:08

End at: 2018-05-25 12:57:38

Local clock offset: 0.149 ms

Remote clock offset: 3.86 ms

Below is generated by plot.py at 2018-05-25 15:58:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.03 Mbit/s

95th percentile per-packet one-way delay: 38.170 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 47.72 Mbit/s

95th percentile per-packet one-way delay: 32.237 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 33.38 Mbit/s

95th percentile per-packet one-way delay: 33.216 ms

Loss rate: 0.26%

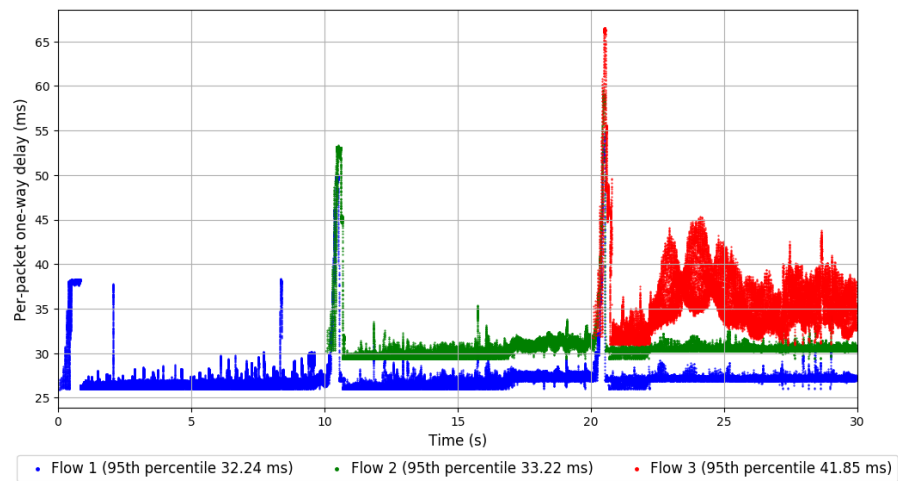
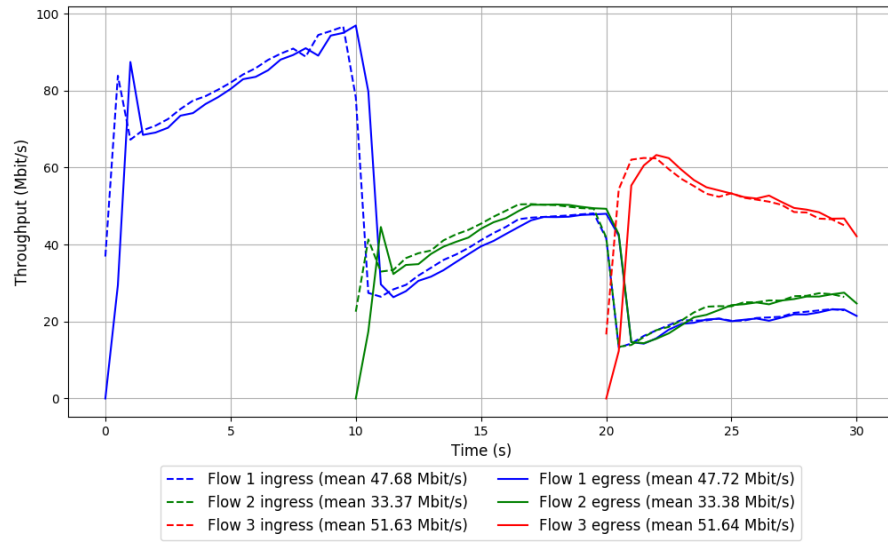
-- Flow 3:

Average throughput: 51.64 Mbit/s

95th percentile per-packet one-way delay: 41.850 ms

Loss rate: 0.59%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-05-25 13:18:30

End at: 2018-05-25 13:19:00

Local clock offset: 0.387 ms

Remote clock offset: 3.349 ms

Below is generated by plot.py at 2018-05-25 15:58:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.13 Mbit/s

95th percentile per-packet one-way delay: 40.935 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 45.52 Mbit/s

95th percentile per-packet one-way delay: 40.982 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 31.81 Mbit/s

95th percentile per-packet one-way delay: 37.131 ms

Loss rate: 0.24%

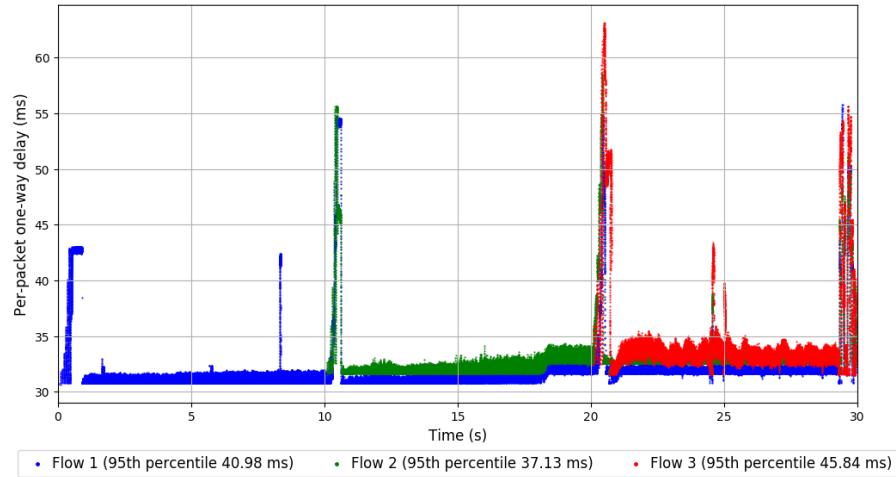
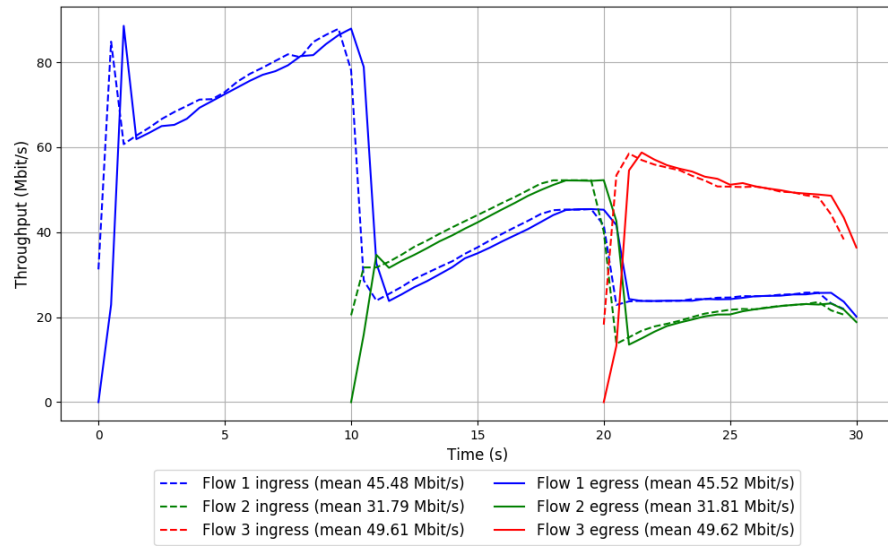
-- Flow 3:

Average throughput: 49.62 Mbit/s

95th percentile per-packet one-way delay: 45.843 ms

Loss rate: 0.61%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-05-25 13:39:50

End at: 2018-05-25 13:40:20

Local clock offset: 0.442 ms

Remote clock offset: 3.921 ms

Below is generated by plot.py at 2018-05-25 15:58:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.71 Mbit/s

95th percentile per-packet one-way delay: 33.529 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 52.39 Mbit/s

95th percentile per-packet one-way delay: 33.051 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 33.78 Mbit/s

95th percentile per-packet one-way delay: 29.418 ms

Loss rate: 0.19%

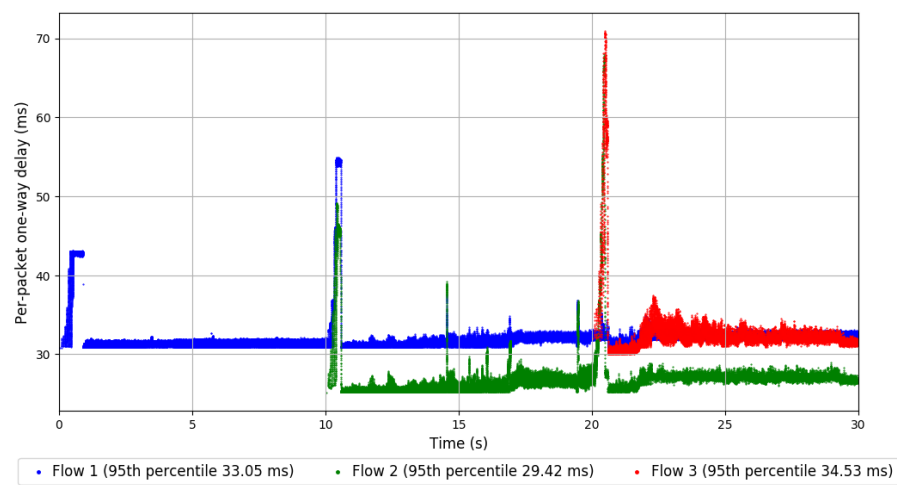
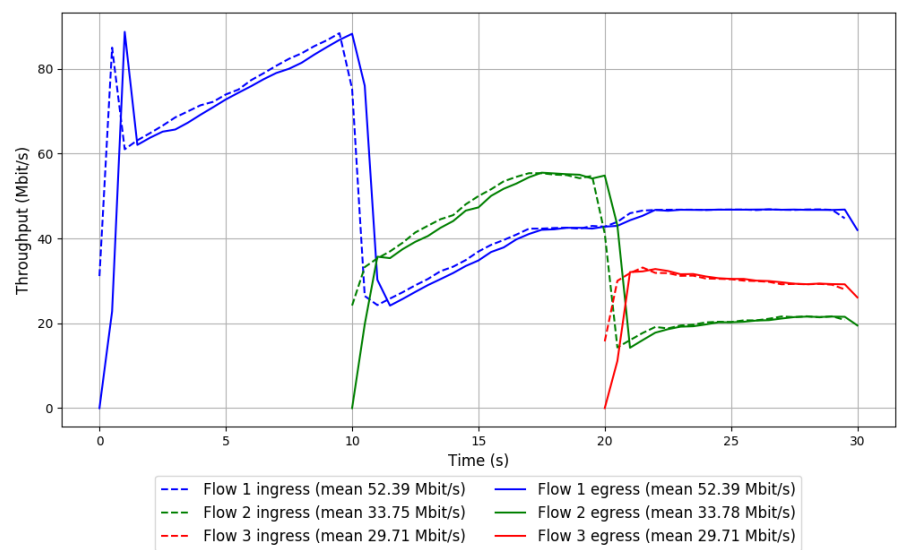
-- Flow 3:

Average throughput: 29.71 Mbit/s

95th percentile per-packet one-way delay: 34.527 ms

Loss rate: 0.62%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-05-25 14:01:05

End at: 2018-05-25 14:01:35

Local clock offset: 0.371 ms

Remote clock offset: 3.541 ms

Below is generated by plot.py at 2018-05-25 15:58:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.68 Mbit/s

95th percentile per-packet one-way delay: 32.647 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 53.78 Mbit/s

95th percentile per-packet one-way delay: 30.420 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 29.93 Mbit/s

95th percentile per-packet one-way delay: 28.899 ms

Loss rate: 0.31%

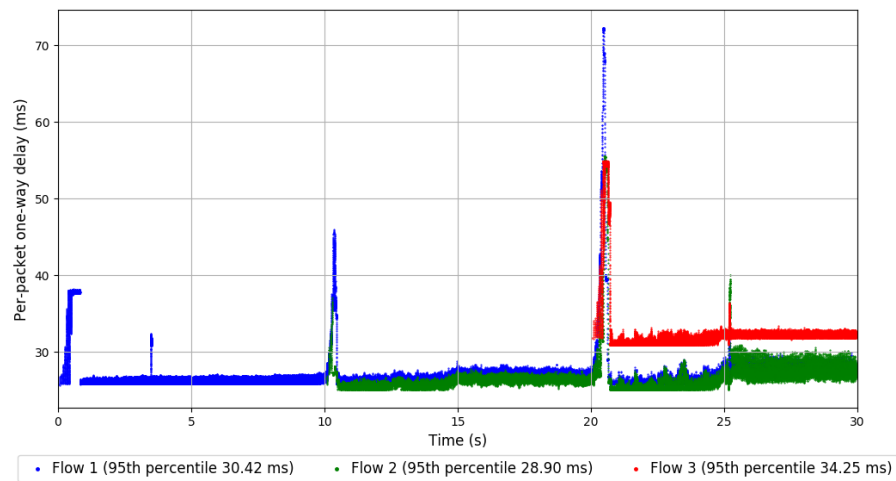
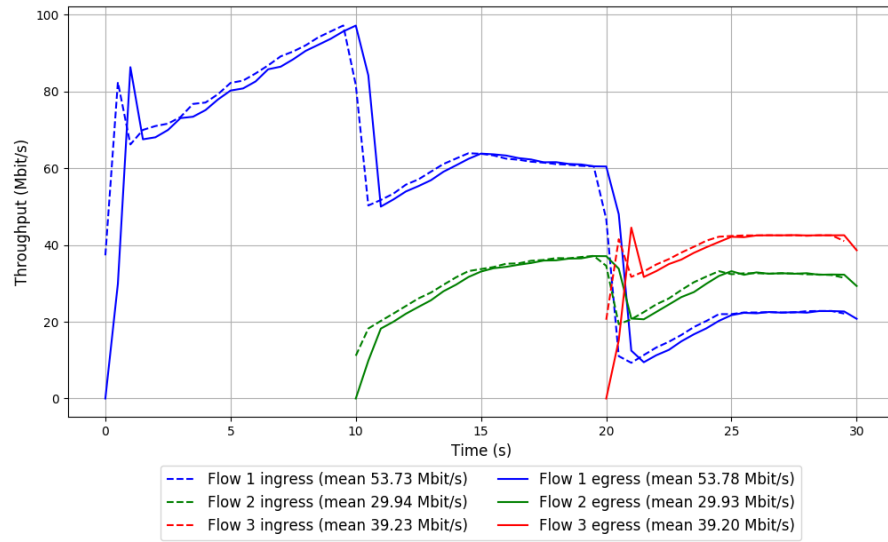
-- Flow 3:

Average throughput: 39.20 Mbit/s

95th percentile per-packet one-way delay: 34.251 ms

Loss rate: 0.69%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-05-25 14:22:21

End at: 2018-05-25 14:22:51

Local clock offset: 0.217 ms

Remote clock offset: 0.936 ms

Below is generated by plot.py at 2018-05-25 15:58:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.46 Mbit/s

95th percentile per-packet one-way delay: 35.270 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 48.19 Mbit/s

95th percentile per-packet one-way delay: 34.709 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 46.74 Mbit/s

95th percentile per-packet one-way delay: 34.843 ms

Loss rate: 0.31%

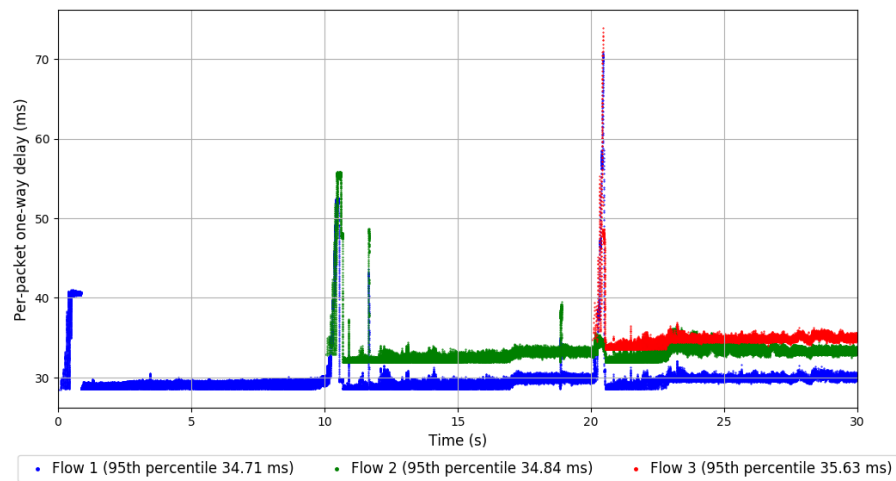
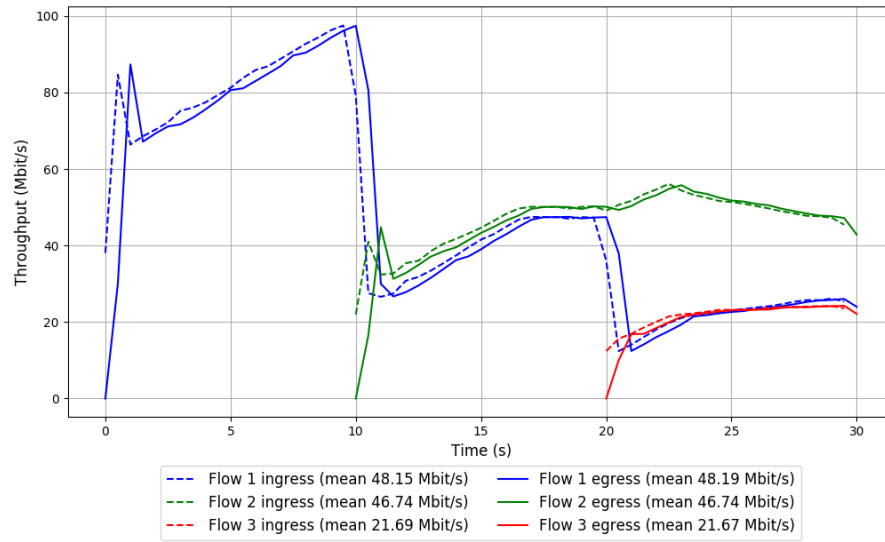
-- Flow 3:

Average throughput: 21.67 Mbit/s

95th percentile per-packet one-way delay: 35.632 ms

Loss rate: 0.72%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-05-25 14:43:38

End at: 2018-05-25 14:44:08

Local clock offset: 0.115 ms

Remote clock offset: 1.007 ms

Below is generated by plot.py at 2018-05-25 15:58:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.64 Mbit/s

95th percentile per-packet one-way delay: 34.261 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 54.14 Mbit/s

95th percentile per-packet one-way delay: 33.639 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 33.75 Mbit/s

95th percentile per-packet one-way delay: 34.425 ms

Loss rate: 0.29%

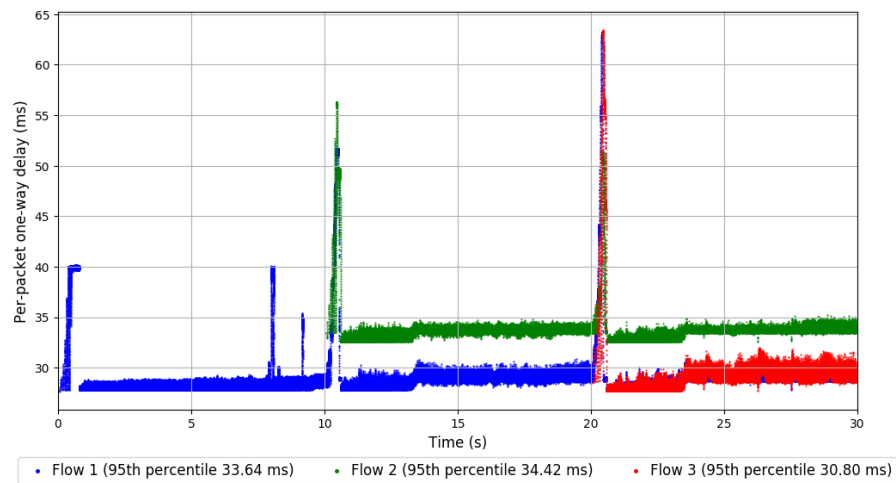
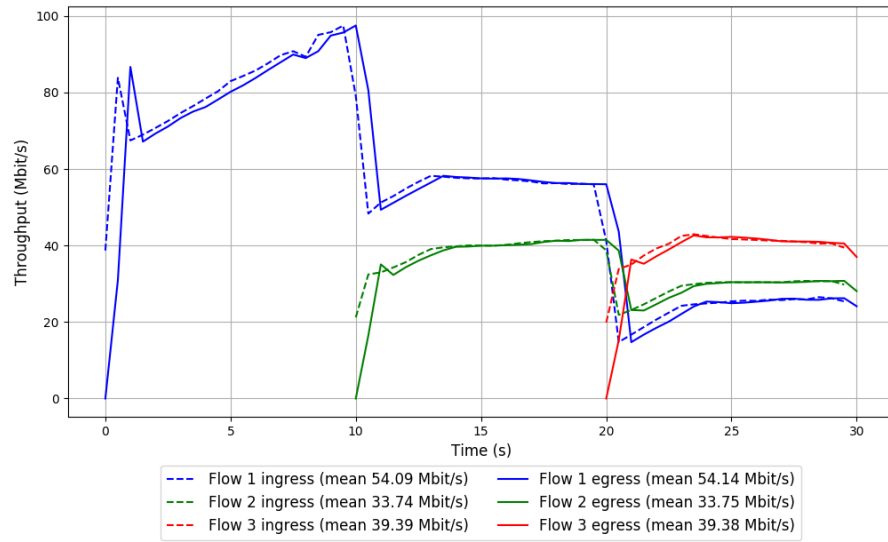
-- Flow 3:

Average throughput: 39.38 Mbit/s

95th percentile per-packet one-way delay: 30.795 ms

Loss rate: 0.59%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-05-25 15:04:55

End at: 2018-05-25 15:05:25

Local clock offset: 0.439 ms

Remote clock offset: 2.575 ms

Below is generated by plot.py at 2018-05-25 15:58:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.71 Mbit/s

95th percentile per-packet one-way delay: 33.617 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 51.35 Mbit/s

95th percentile per-packet one-way delay: 35.013 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 34.37 Mbit/s

95th percentile per-packet one-way delay: 33.372 ms

Loss rate: 0.29%

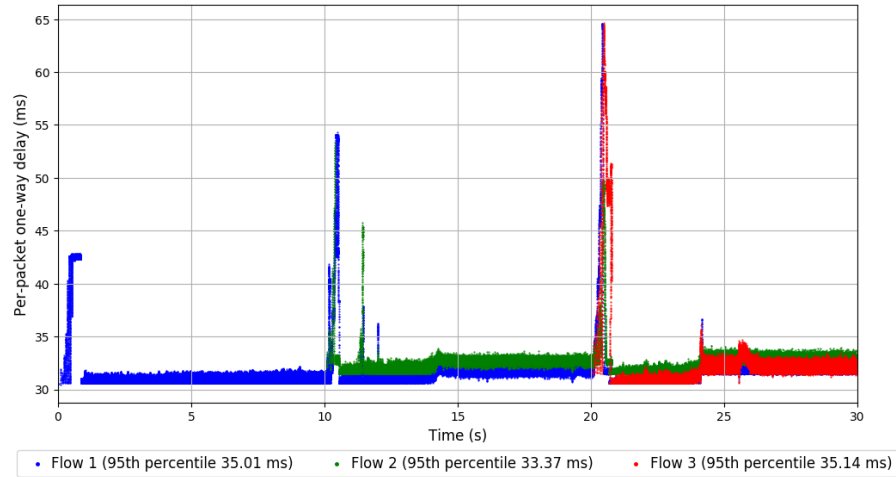
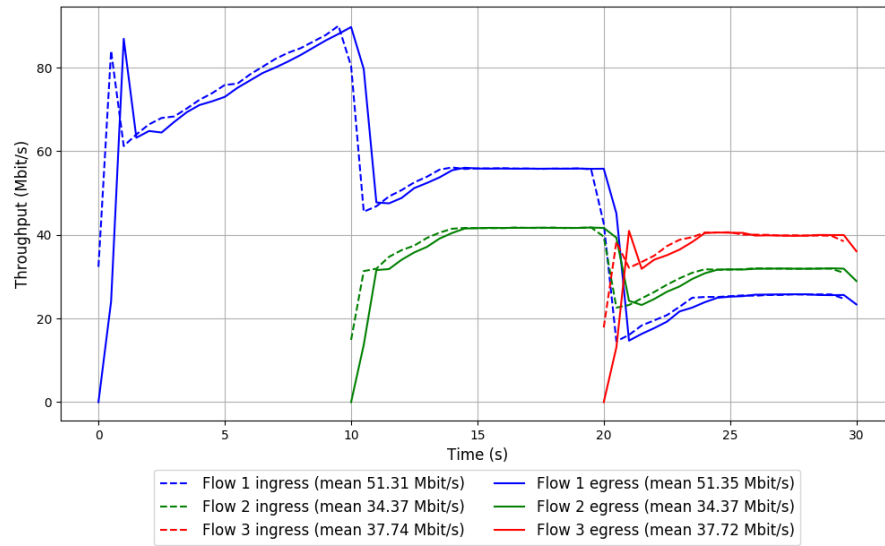
-- Flow 3:

Average throughput: 37.72 Mbit/s

95th percentile per-packet one-way delay: 35.141 ms

Loss rate: 0.66%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-05-25 15:26:17

End at: 2018-05-25 15:26:47

Local clock offset: 0.553 ms

Remote clock offset: 2.877 ms

Below is generated by plot.py at 2018-05-25 15:58:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.12 Mbit/s

95th percentile per-packet one-way delay: 33.283 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 48.29 Mbit/s

95th percentile per-packet one-way delay: 36.112 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 33.95 Mbit/s

95th percentile per-packet one-way delay: 31.799 ms

Loss rate: 0.24%

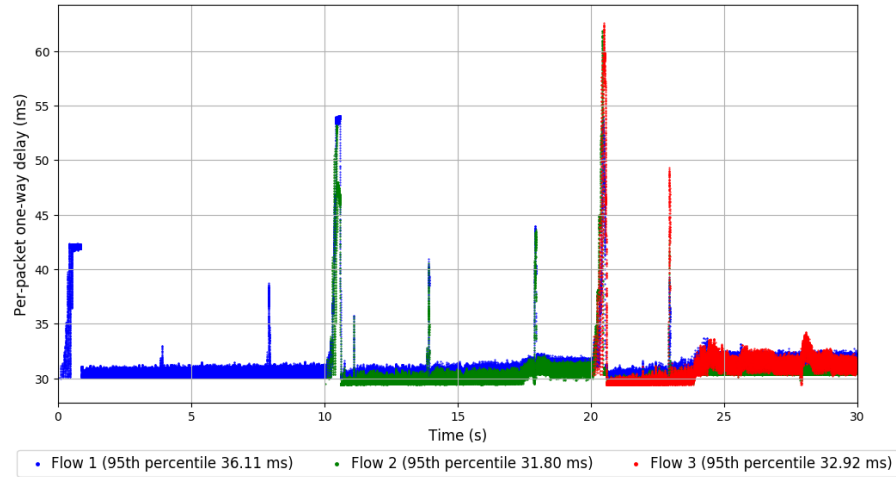
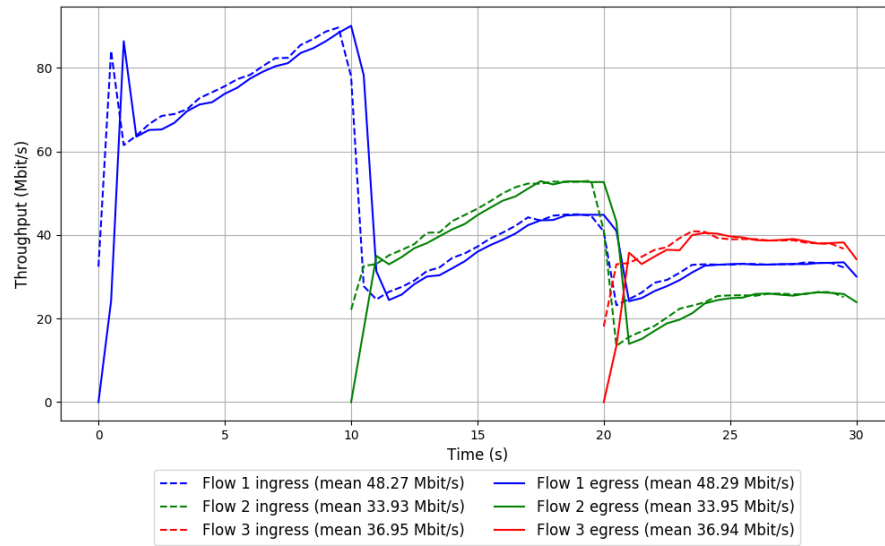
-- Flow 3:

Average throughput: 36.94 Mbit/s

95th percentile per-packet one-way delay: 32.922 ms

Loss rate: 0.64%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-05-25 12:22:40

End at: 2018-05-25 12:23:10

Local clock offset: 0.373 ms

Remote clock offset: 1.146 ms

Below is generated by plot.py at 2018-05-25 15:58:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 32.536 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 28.791 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 31.835 ms

Loss rate: 0.00%

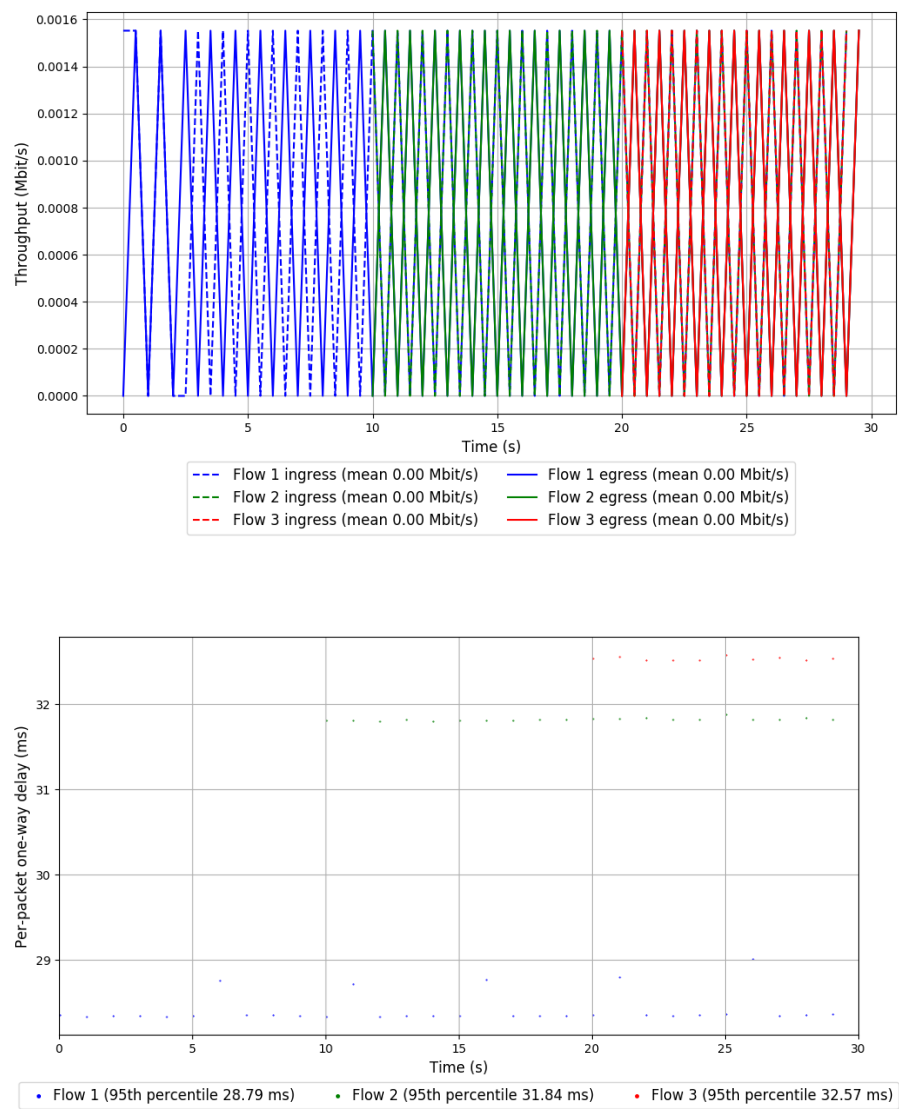
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 32.571 ms

Loss rate: 0.00%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-05-25 12:43:58

End at: 2018-05-25 12:44:28

Local clock offset: 0.027 ms

Remote clock offset: 1.348 ms

Below is generated by plot.py at 2018-05-25 15:58:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 31.667 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 28.687 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 27.410 ms

Loss rate: 0.00%

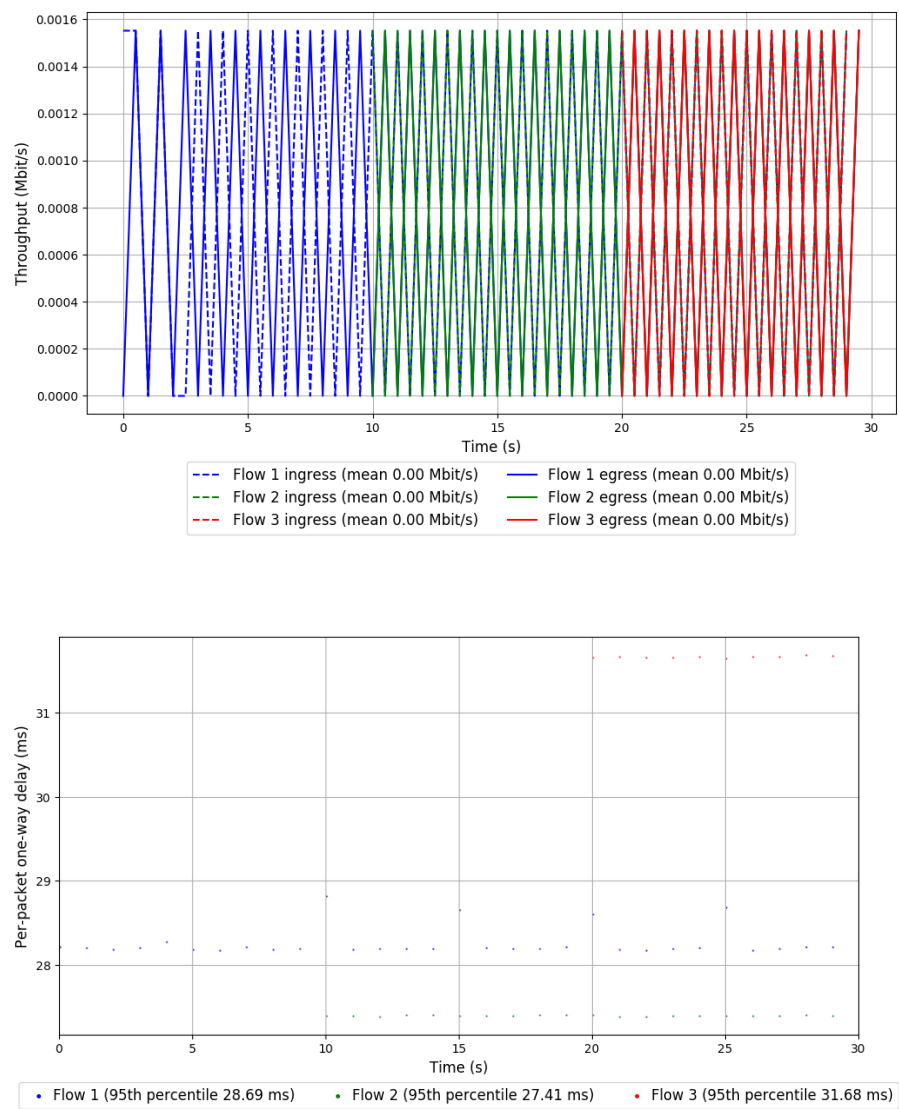
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 31.685 ms

Loss rate: 0.00%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-05-25 13:05:20

End at: 2018-05-25 13:05:50

Local clock offset: 0.326 ms

Remote clock offset: 3.507 ms

Below is generated by plot.py at 2018-05-25 15:58:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 30.796 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 30.934 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 26.322 ms

Loss rate: 0.00%

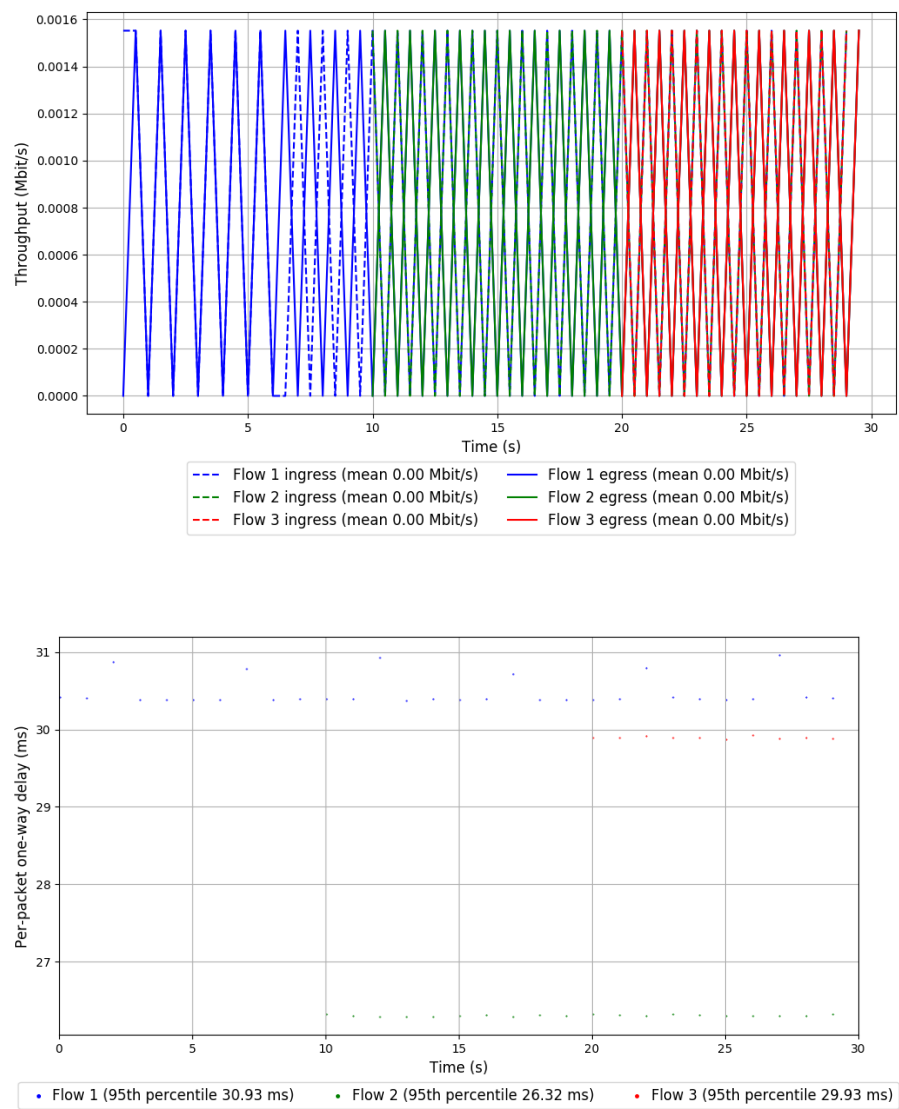
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 29.926 ms

Loss rate: 0.00%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-05-25 13:26:42

End at: 2018-05-25 13:27:12

Local clock offset: 0.318 ms

Remote clock offset: 3.415 ms

Below is generated by plot.py at 2018-05-25 15:58:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 30.233 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 26.383 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 25.492 ms

Loss rate: 0.00%

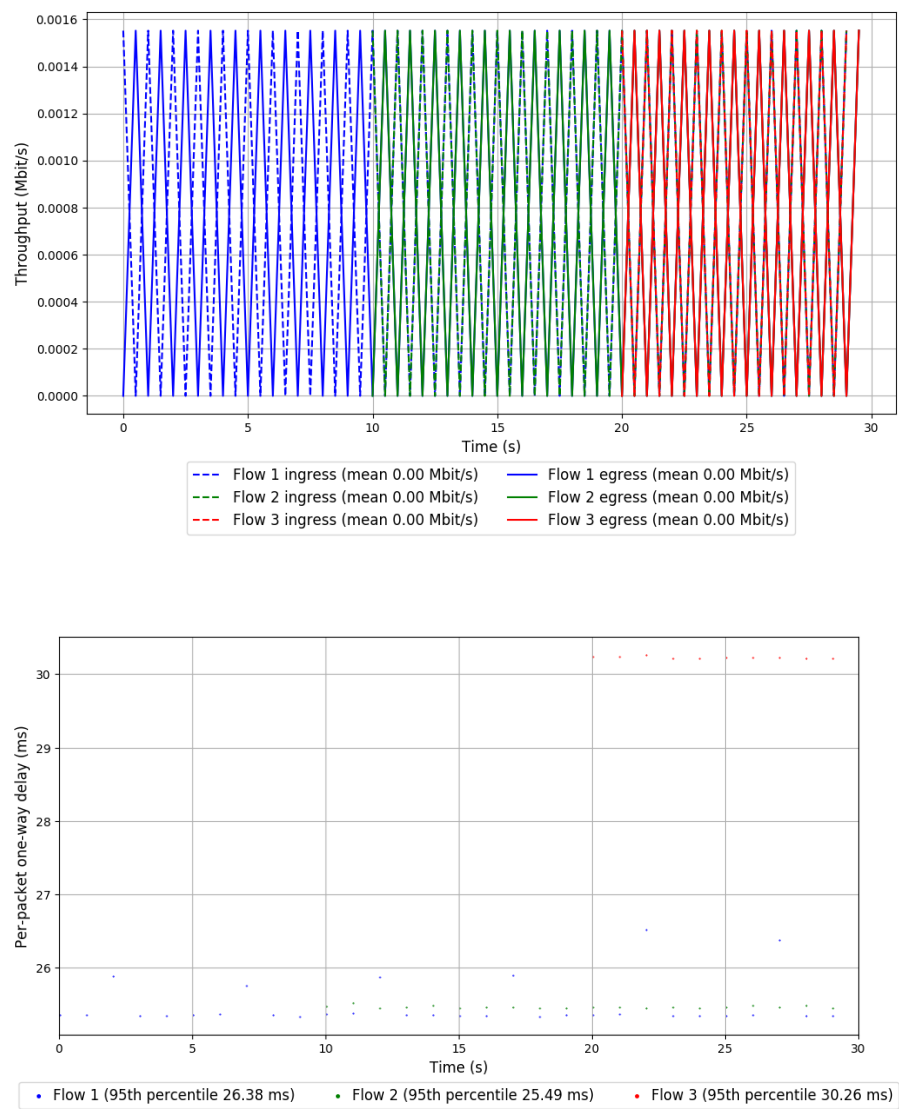
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 30.261 ms

Loss rate: 0.00%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-05-25 13:47:59

End at: 2018-05-25 13:48:29

Local clock offset: 0.628 ms

Remote clock offset: 3.391 ms

Below is generated by plot.py at 2018-05-25 15:58:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 30.808 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 30.831 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 29.695 ms

Loss rate: 0.00%

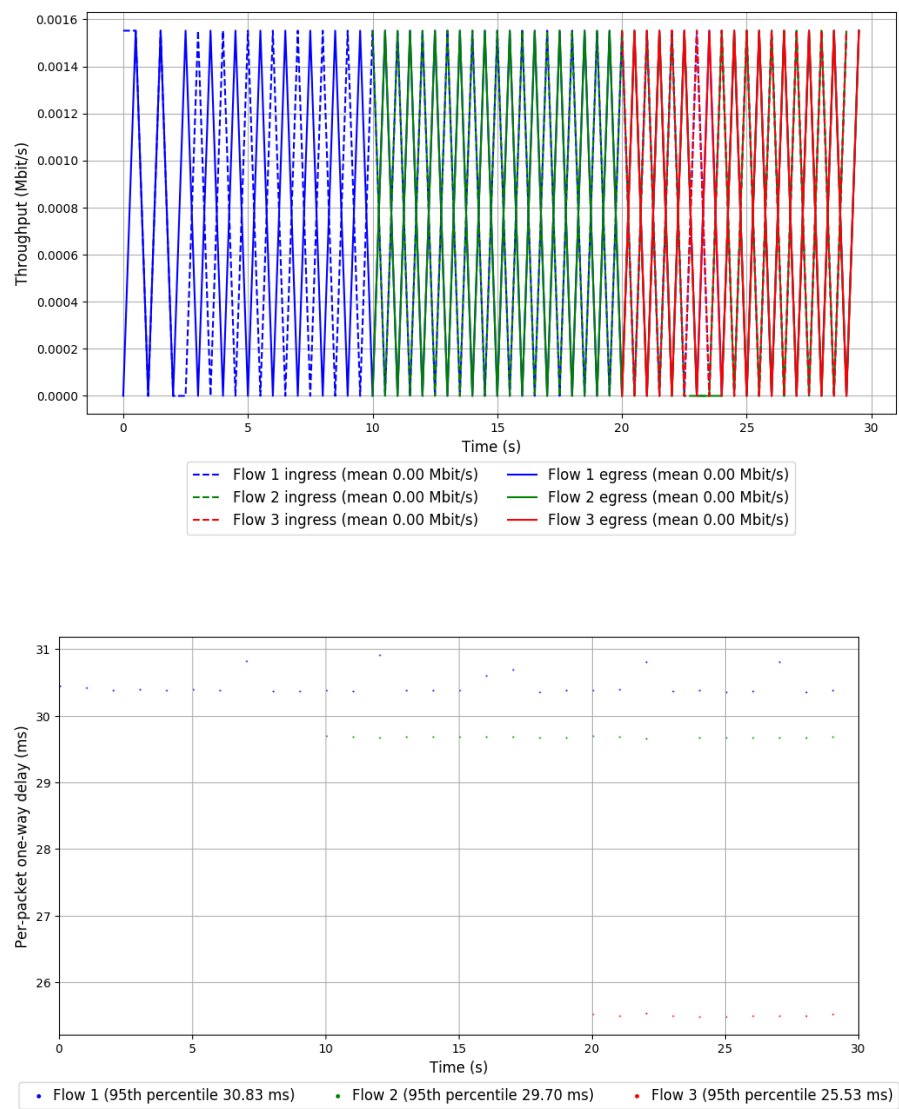
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 25.531 ms

Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-05-25 14:09:15

End at: 2018-05-25 14:09:45

Local clock offset: 0.187 ms

Remote clock offset: 0.995 ms

Below is generated by plot.py at 2018-05-25 15:58:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 33.832 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 33.872 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 32.599 ms

Loss rate: 0.00%

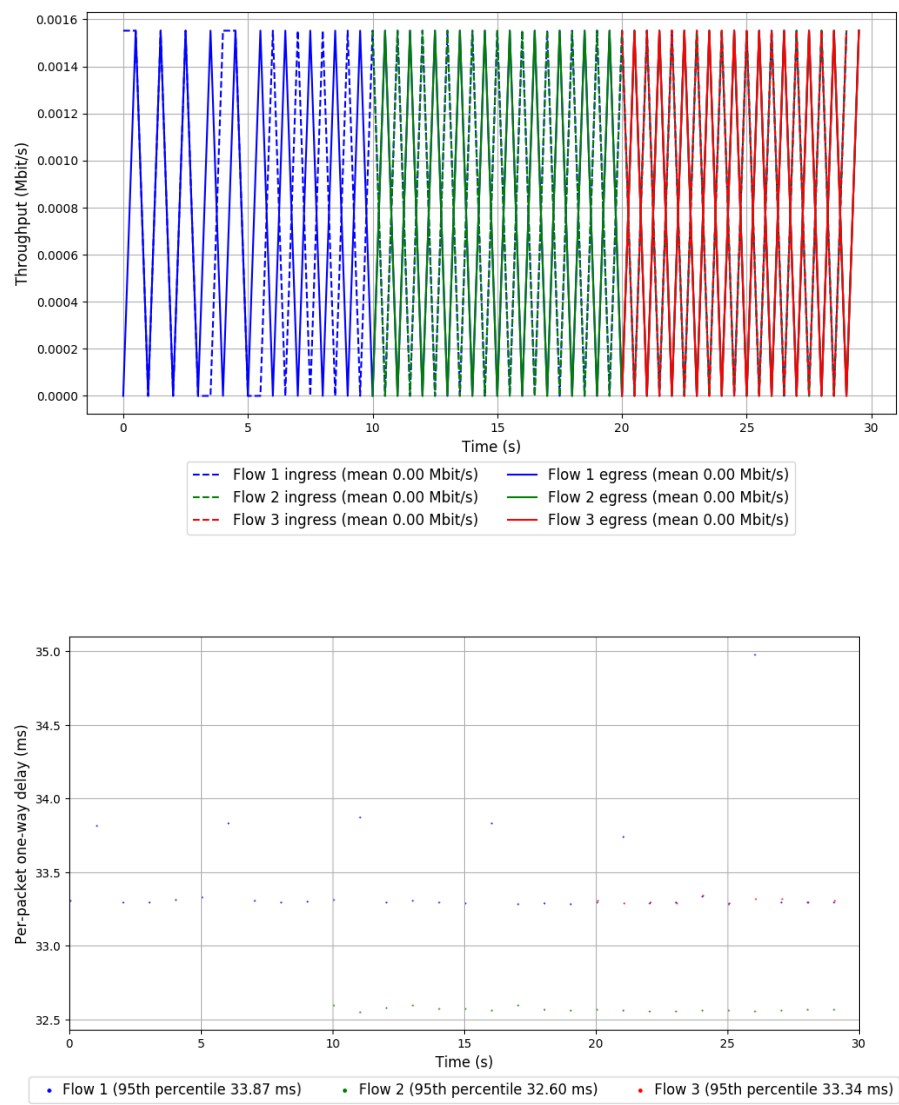
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 33.344 ms

Loss rate: 0.00%

Run 6: Report of Verus — Data Link

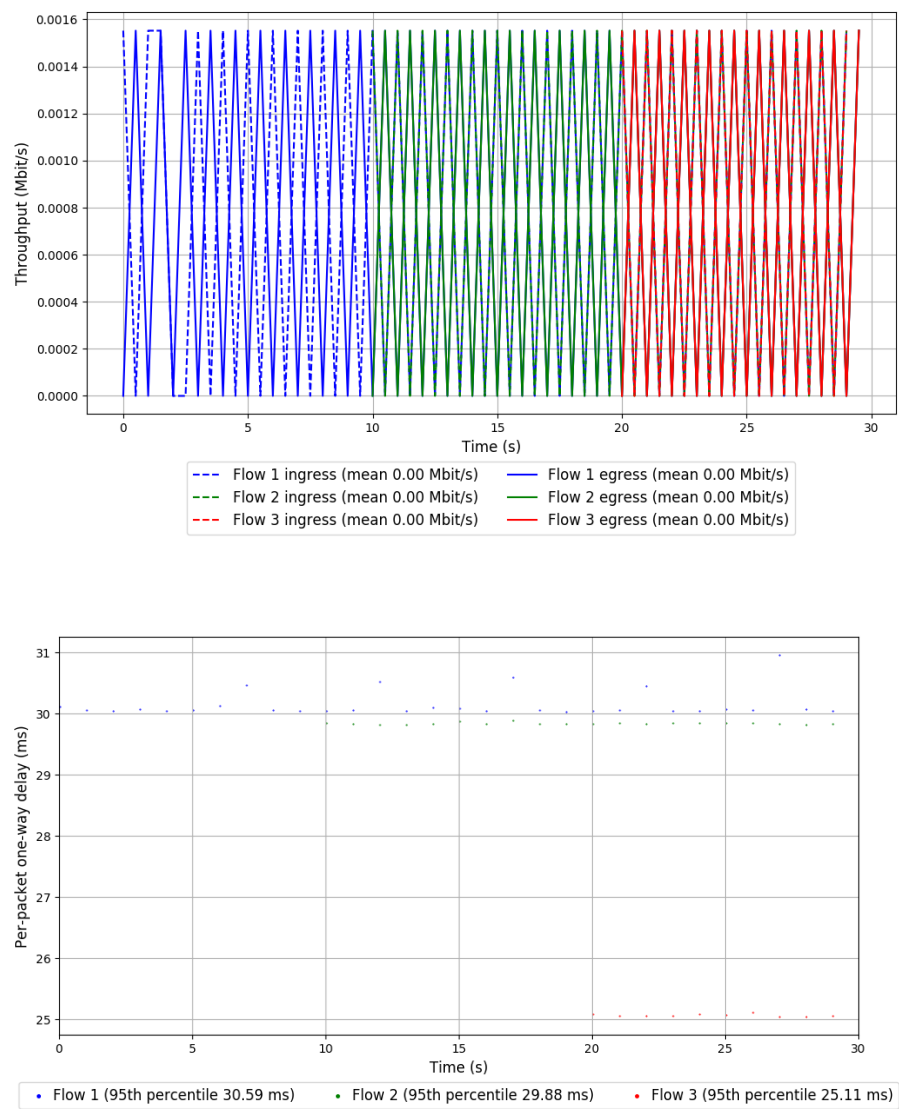


Run 7: Statistics of Verus

Start at: 2018-05-25 14:30:30
End at: 2018-05-25 14:31:00
Local clock offset: 0.059 ms
Remote clock offset: 3.462 ms

Below is generated by plot.py at 2018-05-25 15:58:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 30.463 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 30.595 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 29.876 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 25.112 ms
Loss rate: 0.00%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-05-25 14:51:47

End at: 2018-05-25 14:52:17

Local clock offset: 0.086 ms

Remote clock offset: 3.029 ms

Below is generated by plot.py at 2018-05-25 15:58:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 31.447 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 31.461 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 26.647 ms

Loss rate: 0.00%

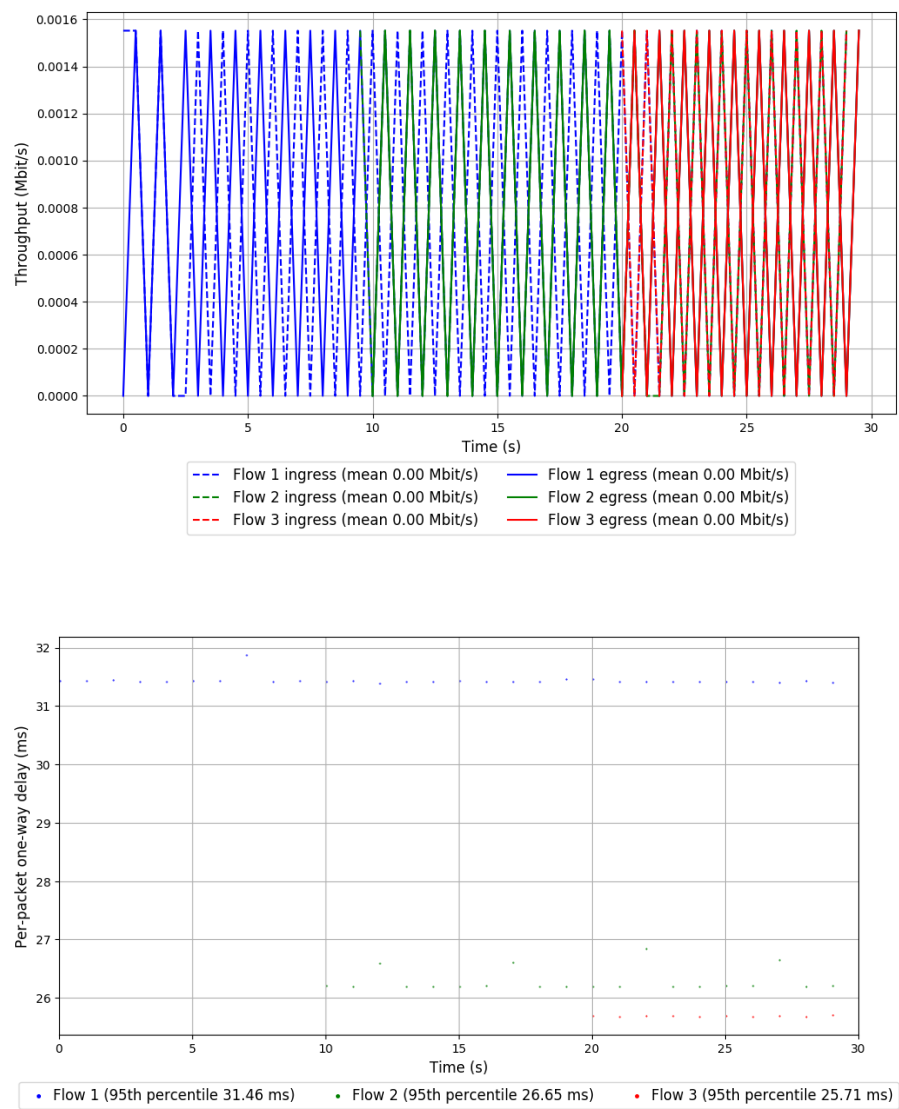
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 25.715 ms

Loss rate: 0.00%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-05-25 15:13:07

End at: 2018-05-25 15:13:37

Local clock offset: 0.492 ms

Remote clock offset: 0.405 ms

Below is generated by plot.py at 2018-05-25 15:58:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 32.429 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 32.525 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 31.741 ms

Loss rate: 0.00%

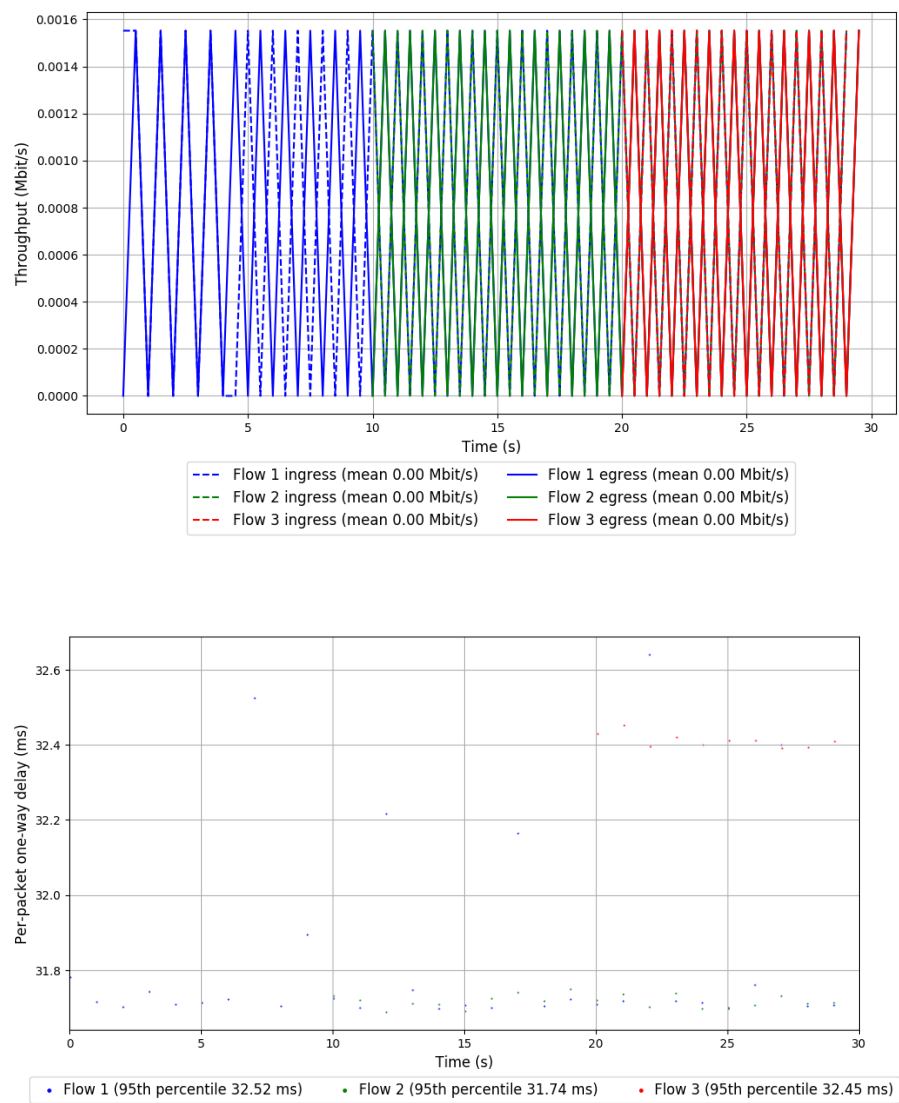
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 32.451 ms

Loss rate: 0.00%

Run 9: Report of Verus — Data Link

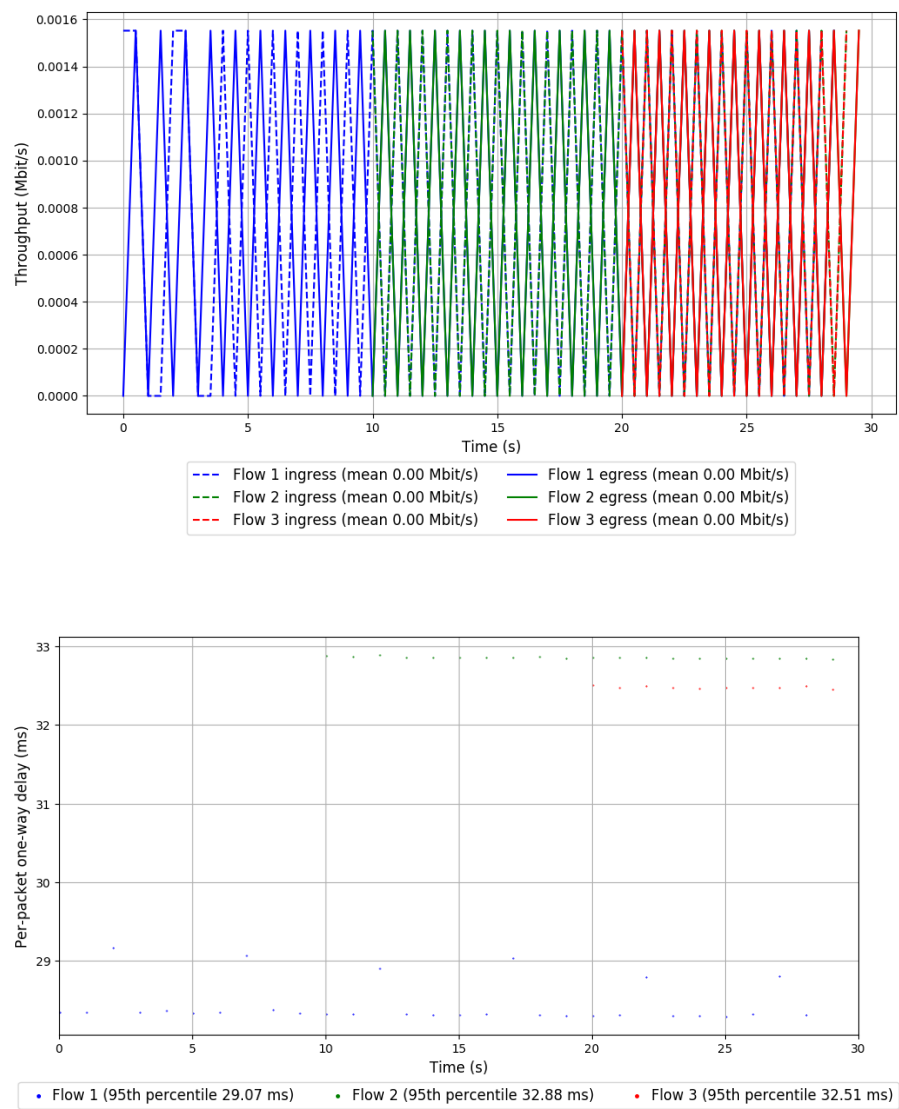


Run 10: Statistics of Verus

Start at: 2018-05-25 15:34:27
End at: 2018-05-25 15:34:57
Local clock offset: 0.275 ms
Remote clock offset: -0.599 ms

Below is generated by plot.py at 2018-05-25 15:58:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 32.869 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 29.071 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 32.879 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 32.509 ms
Loss rate: 0.00%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-05-25 12:25:15

End at: 2018-05-25 12:25:45

Local clock offset: 0.306 ms

Remote clock offset: 3.331 ms

Below is generated by plot.py at 2018-05-25 15:58:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.50 Mbit/s

95th percentile per-packet one-way delay: 65.588 ms

Loss rate: 1.06%

-- Flow 1:

Average throughput: 55.67 Mbit/s

95th percentile per-packet one-way delay: 61.940 ms

Loss rate: 0.68%

-- Flow 2:

Average throughput: 30.93 Mbit/s

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

Loss rate: 2.26%

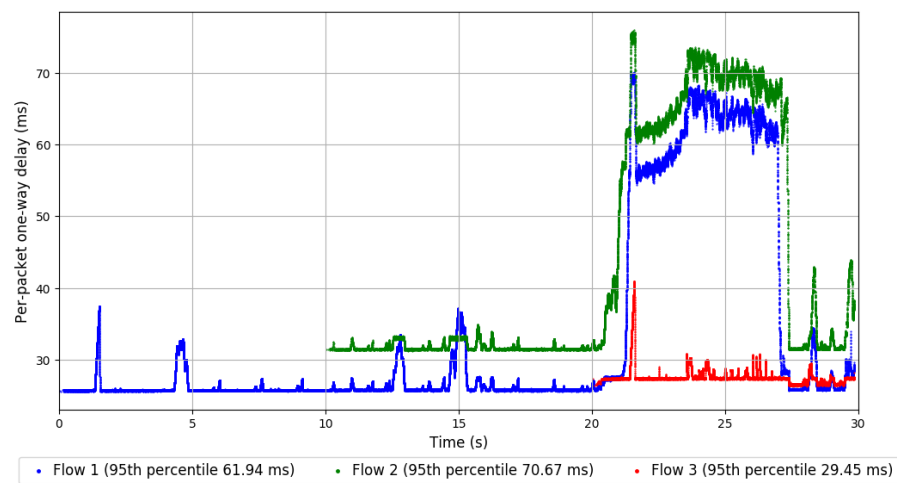
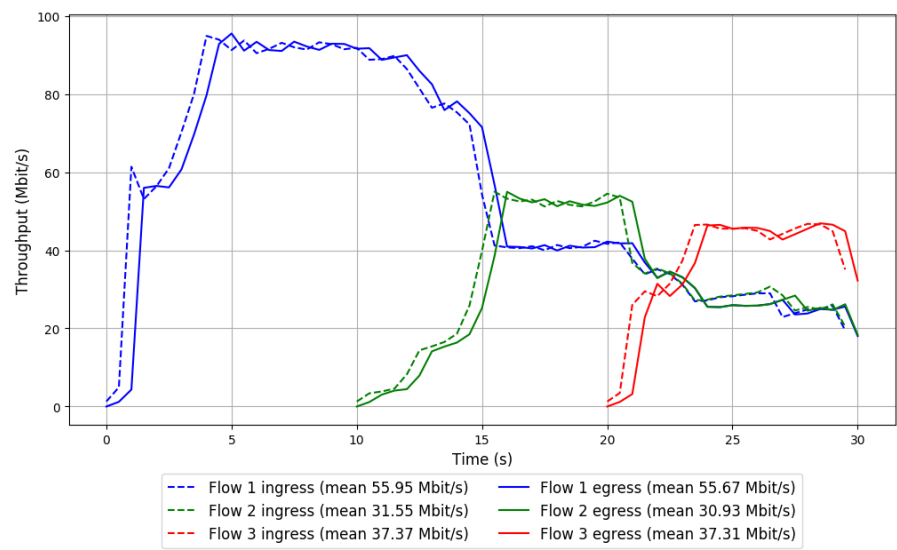
-- Flow 3:

Average throughput: 37.31 Mbit/s

95th percentile per-packet one-way delay: 29.452 ms

Loss rate: 0.73%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-05-25 12:46:35

End at: 2018-05-25 12:47:05

Local clock offset: 0.027 ms

Remote clock offset: 3.381 ms

Below is generated by plot.py at 2018-05-25 15:58:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.83 Mbit/s

95th percentile per-packet one-way delay: 52.705 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 60.16 Mbit/s

95th percentile per-packet one-way delay: 51.099 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 25.33 Mbit/s

95th percentile per-packet one-way delay: 48.151 ms

Loss rate: 0.57%

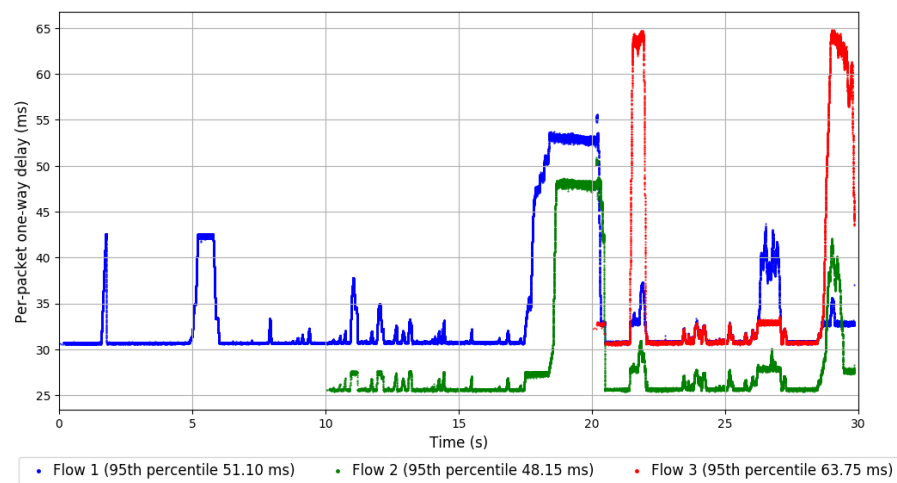
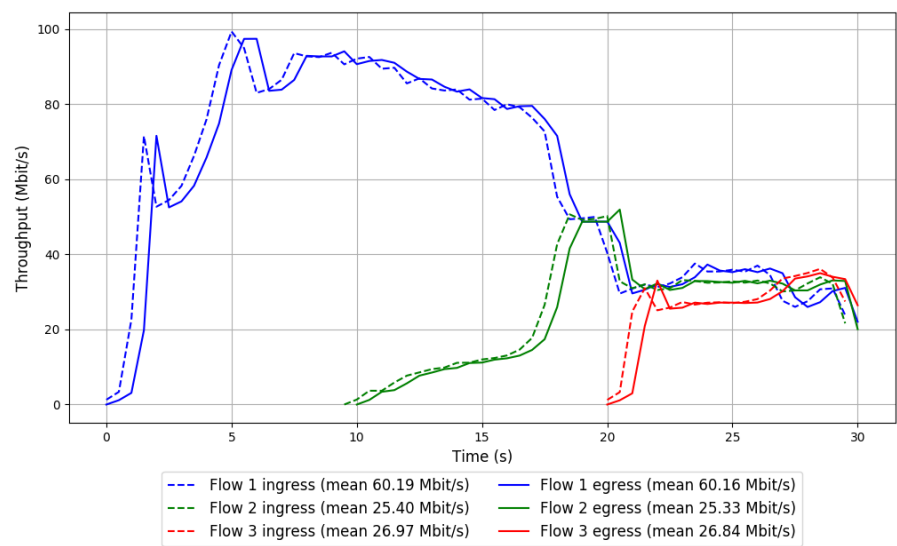
-- Flow 3:

Average throughput: 26.84 Mbit/s

95th percentile per-packet one-way delay: 63.751 ms

Loss rate: 1.11%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-05-25 13:07:56

End at: 2018-05-25 13:08:26

Local clock offset: 0.331 ms

Remote clock offset: 3.983 ms

Below is generated by plot.py at 2018-05-25 15:59:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.18 Mbit/s

95th percentile per-packet one-way delay: 61.137 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 54.70 Mbit/s

95th percentile per-packet one-way delay: 59.236 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 35.63 Mbit/s

95th percentile per-packet one-way delay: 61.341 ms

Loss rate: 0.50%

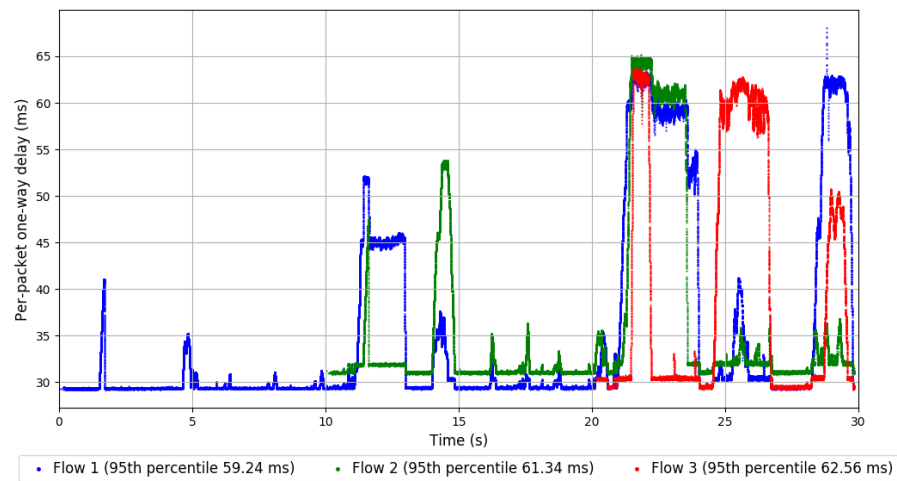
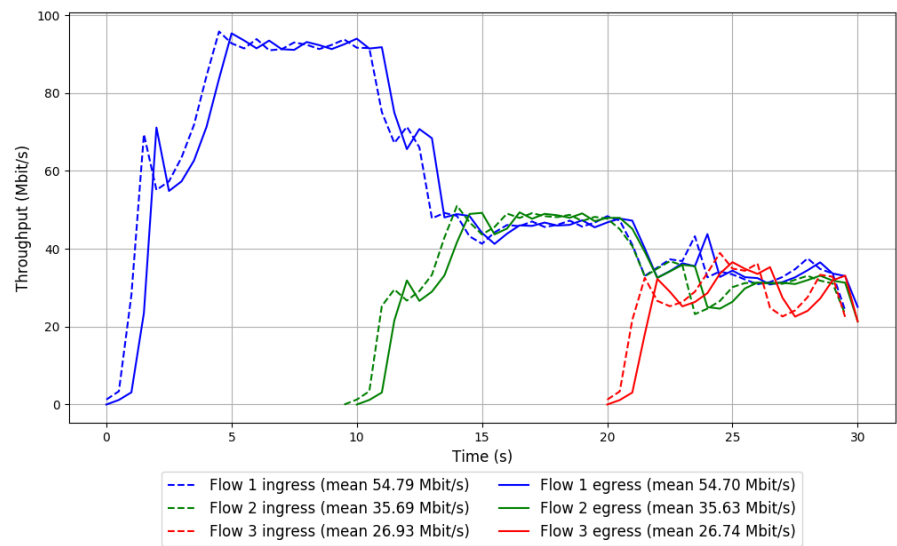
-- Flow 3:

Average throughput: 26.74 Mbit/s

95th percentile per-packet one-way delay: 62.562 ms

Loss rate: 1.31%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-05-25 13:29:18

End at: 2018-05-25 13:29:48

Local clock offset: 0.45 ms

Remote clock offset: 3.782 ms

Below is generated by plot.py at 2018-05-25 15:59:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.79 Mbit/s

95th percentile per-packet one-way delay: 61.380 ms

Loss rate: 2.39%

-- Flow 1:

Average throughput: 54.25 Mbit/s

95th percentile per-packet one-way delay: 60.883 ms

Loss rate: 2.22%

-- Flow 2:

Average throughput: 34.77 Mbit/s

95th percentile per-packet one-way delay: 66.703 ms

Loss rate: 3.51%

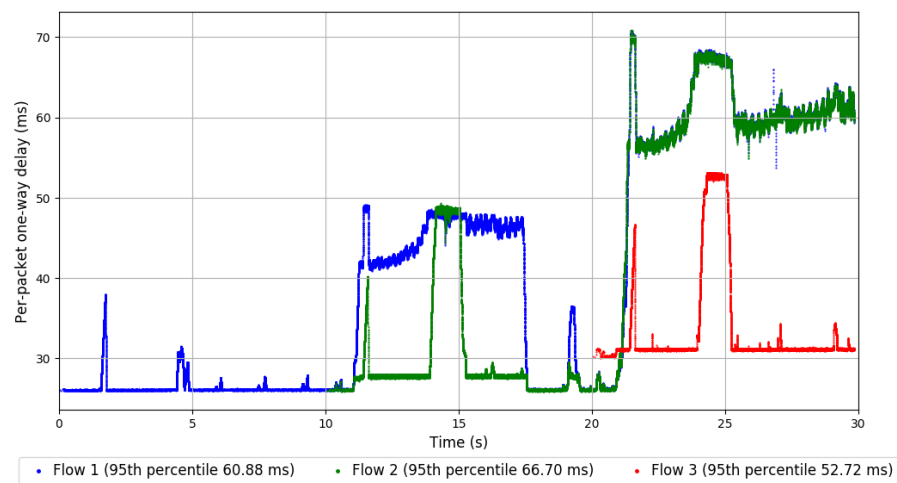
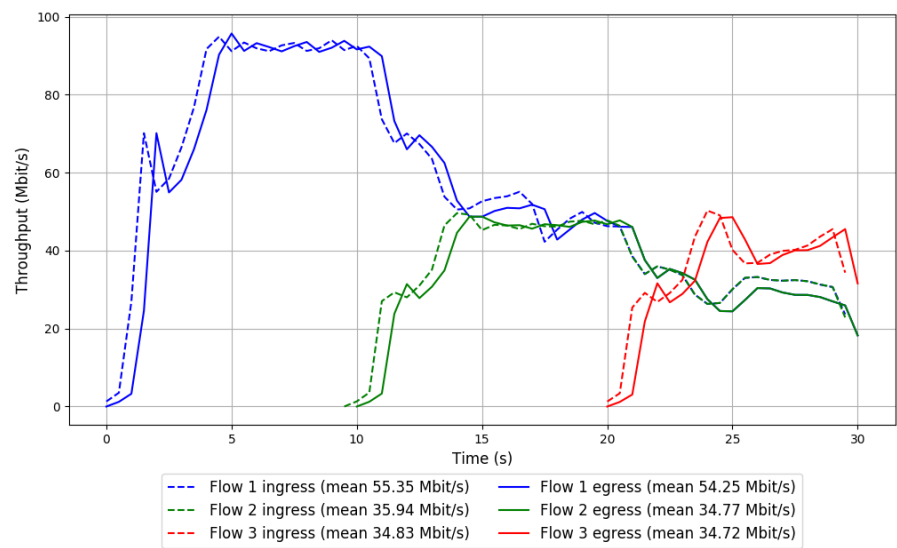
-- Flow 3:

Average throughput: 34.72 Mbit/s

95th percentile per-packet one-way delay: 52.718 ms

Loss rate: 0.93%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-05-25 13:50:34

End at: 2018-05-25 13:51:04

Local clock offset: 0.551 ms

Remote clock offset: 3.28 ms

Below is generated by plot.py at 2018-05-25 15:59:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.14 Mbit/s

95th percentile per-packet one-way delay: 53.778 ms

Loss rate: 1.59%

-- Flow 1:

Average throughput: 56.66 Mbit/s

95th percentile per-packet one-way delay: 53.668 ms

Loss rate: 2.09%

-- Flow 2:

Average throughput: 29.55 Mbit/s

95th percentile per-packet one-way delay: 55.982 ms

Loss rate: 0.57%

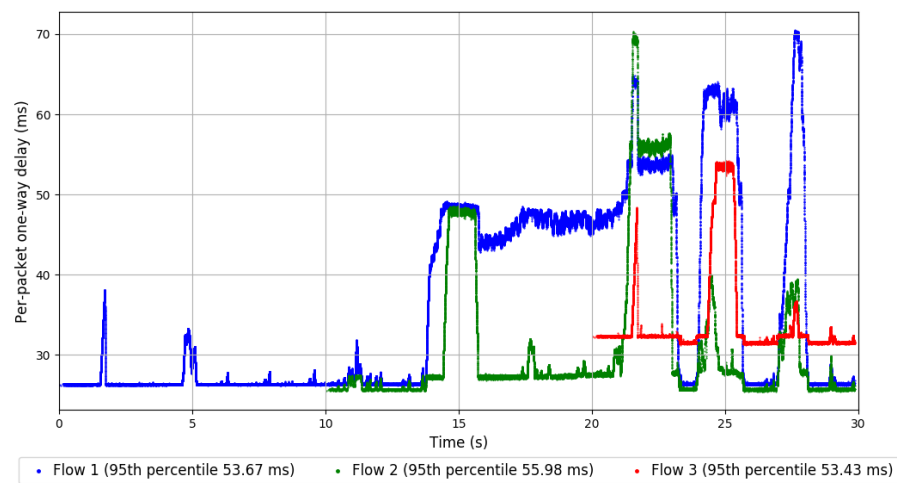
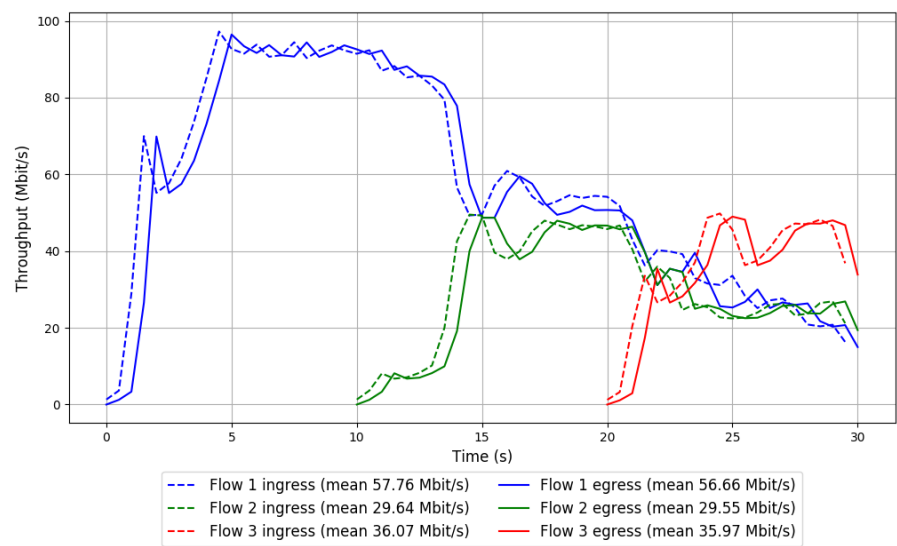
-- Flow 3:

Average throughput: 35.97 Mbit/s

95th percentile per-packet one-way delay: 53.426 ms

Loss rate: 0.91%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-05-25 14:11:51

End at: 2018-05-25 14:12:21

Local clock offset: 0.139 ms

Remote clock offset: 0.941 ms

Below is generated by plot.py at 2018-05-25 15:59:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.48 Mbit/s

95th percentile per-packet one-way delay: 60.893 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 55.61 Mbit/s

95th percentile per-packet one-way delay: 49.991 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 35.55 Mbit/s

95th percentile per-packet one-way delay: 64.890 ms

Loss rate: 0.94%

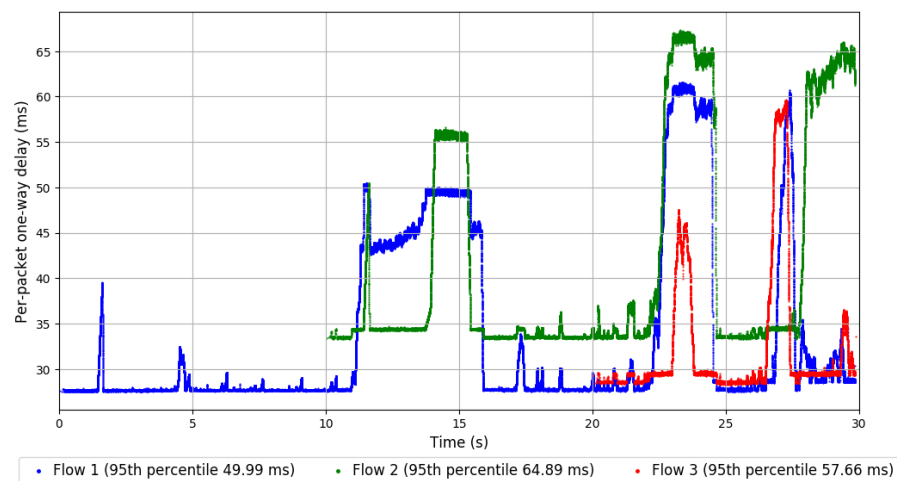
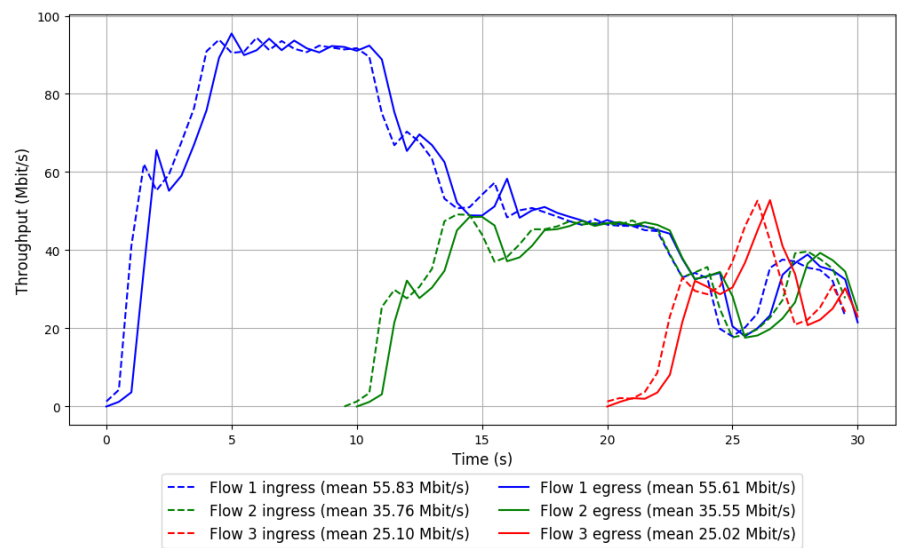
-- Flow 3:

Average throughput: 25.02 Mbit/s

95th percentile per-packet one-way delay: 57.663 ms

Loss rate: 0.87%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-05-25 14:33:05

End at: 2018-05-25 14:33:35

Local clock offset: 0.039 ms

Remote clock offset: 2.967 ms

Below is generated by plot.py at 2018-05-25 15:59:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.75 Mbit/s

95th percentile per-packet one-way delay: 69.655 ms

Loss rate: 1.72%

-- Flow 1:

Average throughput: 59.32 Mbit/s

95th percentile per-packet one-way delay: 46.692 ms

Loss rate: 1.08%

-- Flow 2:

Average throughput: 34.55 Mbit/s

95th percentile per-packet one-way delay: 71.058 ms

Loss rate: 2.78%

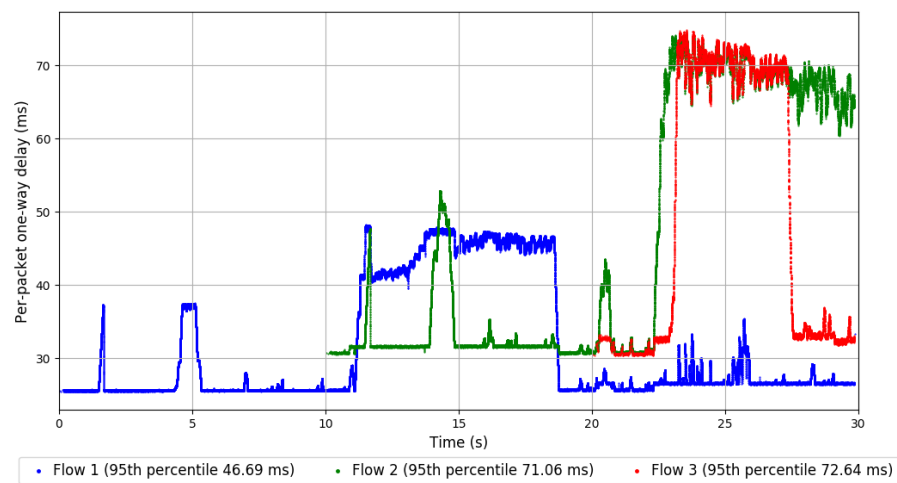
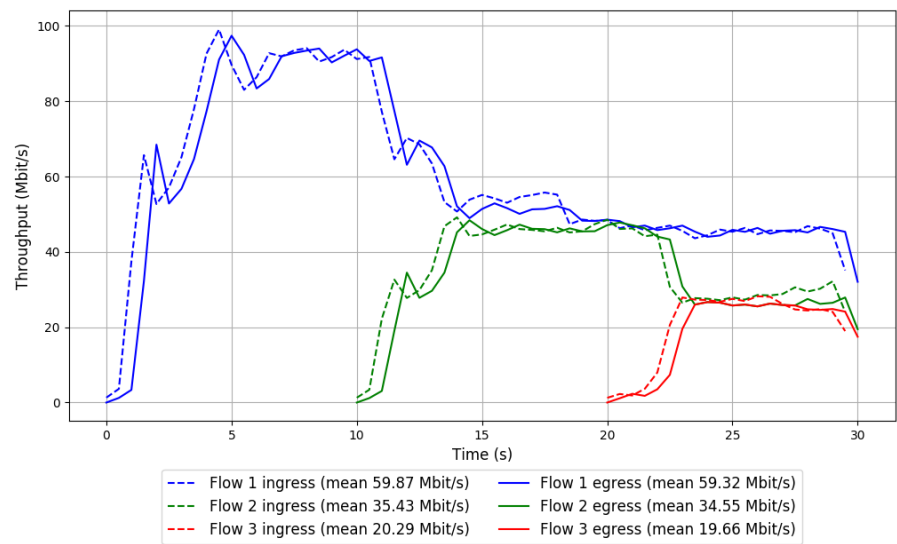
-- Flow 3:

Average throughput: 19.66 Mbit/s

95th percentile per-packet one-way delay: 72.639 ms

Loss rate: 3.70%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-05-25 14:54:23

End at: 2018-05-25 14:54:53

Local clock offset: 0.083 ms

Remote clock offset: 3.062 ms

Below is generated by plot.py at 2018-05-25 15:59:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.32 Mbit/s

95th percentile per-packet one-way delay: 59.237 ms

Loss rate: 0.94%

-- Flow 1:

Average throughput: 52.54 Mbit/s

95th percentile per-packet one-way delay: 46.446 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 37.41 Mbit/s

95th percentile per-packet one-way delay: 60.674 ms

Loss rate: 2.35%

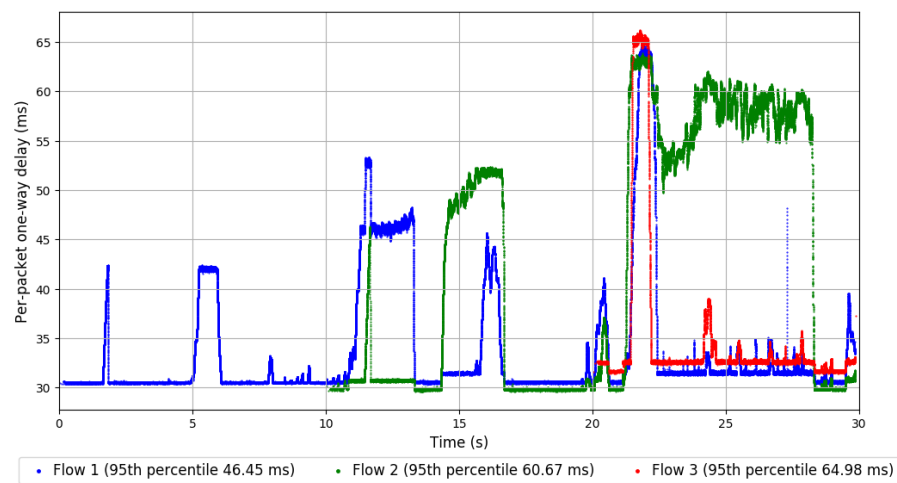
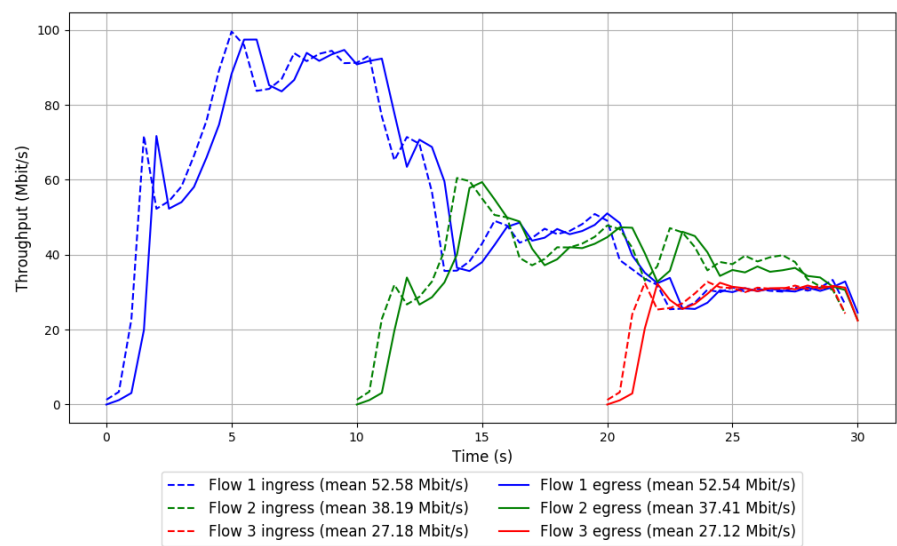
-- Flow 3:

Average throughput: 27.12 Mbit/s

95th percentile per-packet one-way delay: 64.982 ms

Loss rate: 0.79%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-05-25 15:15:43

End at: 2018-05-25 15:16:13

Local clock offset: 0.498 ms

Remote clock offset: 2.927 ms

Below is generated by plot.py at 2018-05-25 15:59:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.12 Mbit/s

95th percentile per-packet one-way delay: 63.611 ms

Loss rate: 3.48%

-- Flow 1:

Average throughput: 56.30 Mbit/s

95th percentile per-packet one-way delay: 56.795 ms

Loss rate: 3.97%

-- Flow 2:

Average throughput: 29.92 Mbit/s

95th percentile per-packet one-way delay: 71.317 ms

Loss rate: 3.55%

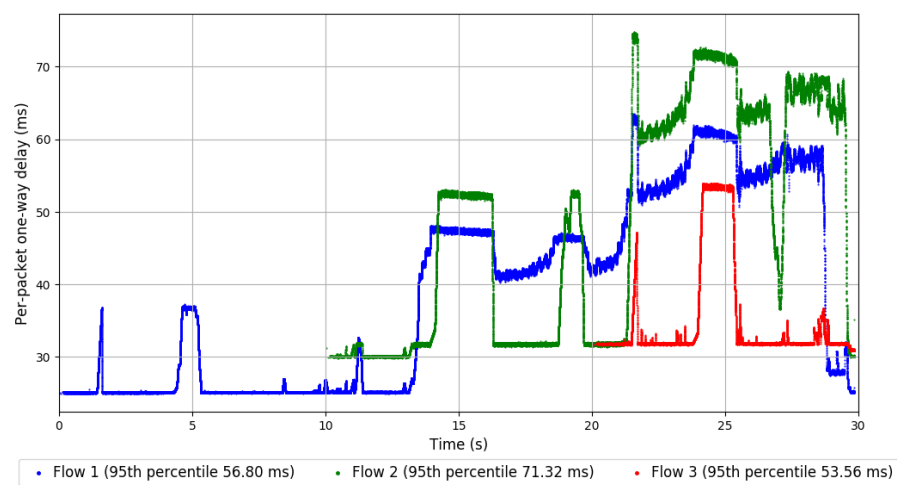
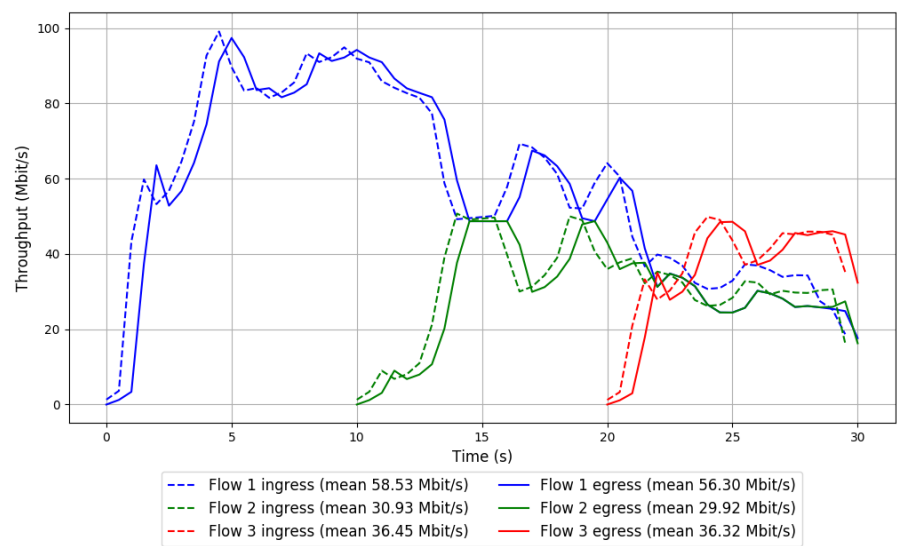
-- Flow 3:

Average throughput: 36.32 Mbit/s

95th percentile per-packet one-way delay: 53.564 ms

Loss rate: 0.97%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-05-25 15:37:03

End at: 2018-05-25 15:37:33

Local clock offset: 0.249 ms

Remote clock offset: 1.81 ms

Below is generated by plot.py at 2018-05-25 15:59:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.88 Mbit/s

95th percentile per-packet one-way delay: 59.233 ms

Loss rate: 1.83%

-- Flow 1:

Average throughput: 57.78 Mbit/s

95th percentile per-packet one-way delay: 57.427 ms

Loss rate: 2.36%

-- Flow 2:

Average throughput: 31.76 Mbit/s

95th percentile per-packet one-way delay: 61.184 ms

Loss rate: 0.72%

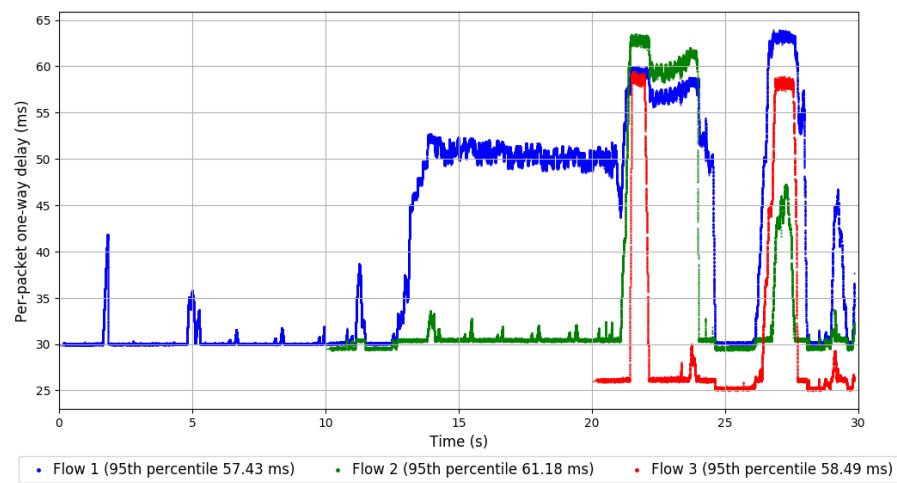
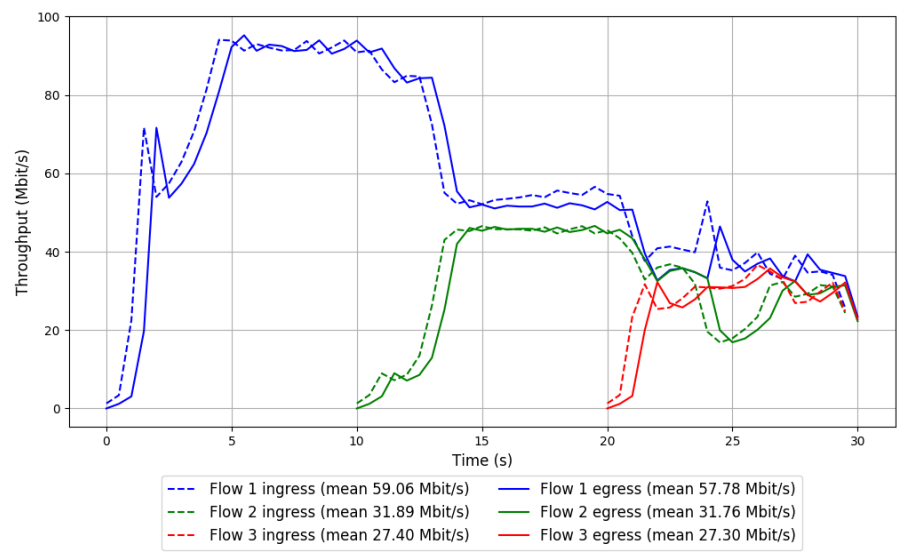
-- Flow 3:

Average throughput: 27.30 Mbit/s

95th percentile per-packet one-way delay: 58.486 ms

Loss rate: 0.92%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-05-25 12:11:58

End at: 2018-05-25 12:12:28

Local clock offset: 0.39 ms

Remote clock offset: 3.443 ms

Below is generated by plot.py at 2018-05-25 15:59:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.40 Mbit/s

95th percentile per-packet one-way delay: 30.738 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 26.016 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.47 Mbit/s

95th percentile per-packet one-way delay: 30.976 ms

Loss rate: 0.30%

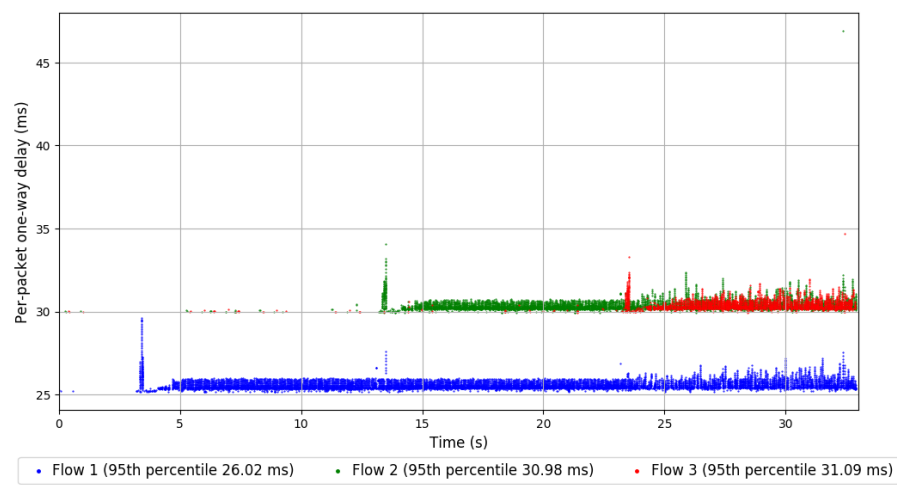
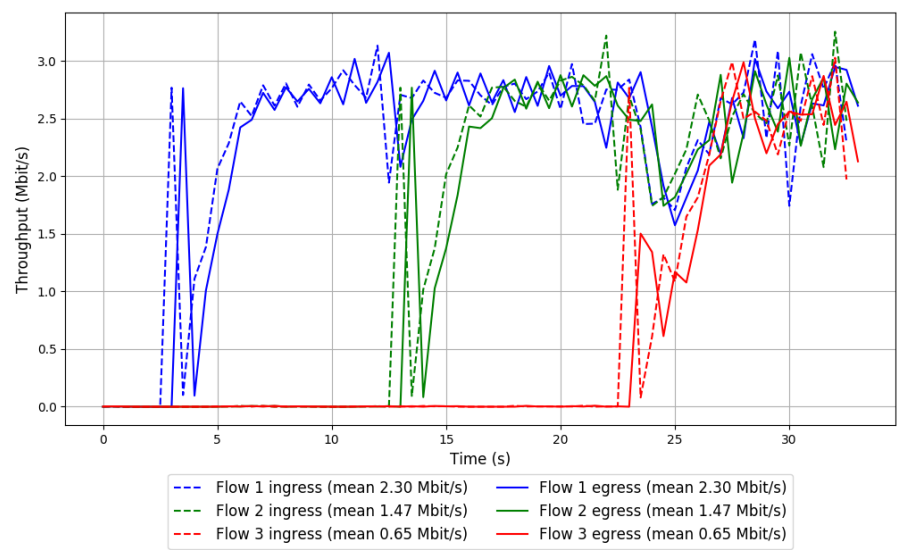
-- Flow 3:

Average throughput: 0.65 Mbit/s

95th percentile per-packet one-way delay: 31.094 ms

Loss rate: 0.53%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-05-25 12:33:15

End at: 2018-05-25 12:33:45

Local clock offset: 0.107 ms

Remote clock offset: 1.53 ms

Below is generated by plot.py at 2018-05-25 15:59:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.39 Mbit/s

95th percentile per-packet one-way delay: 33.969 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 32.529 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 1.48 Mbit/s

95th percentile per-packet one-way delay: 34.289 ms

Loss rate: 0.47%

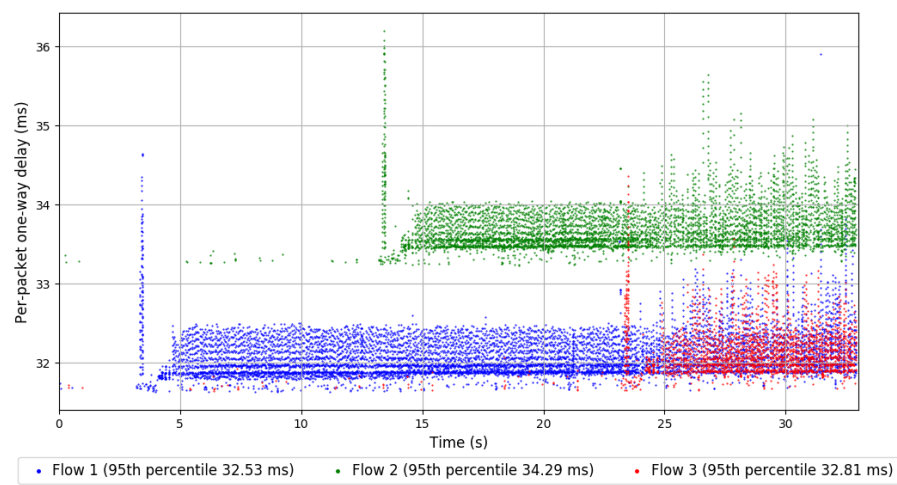
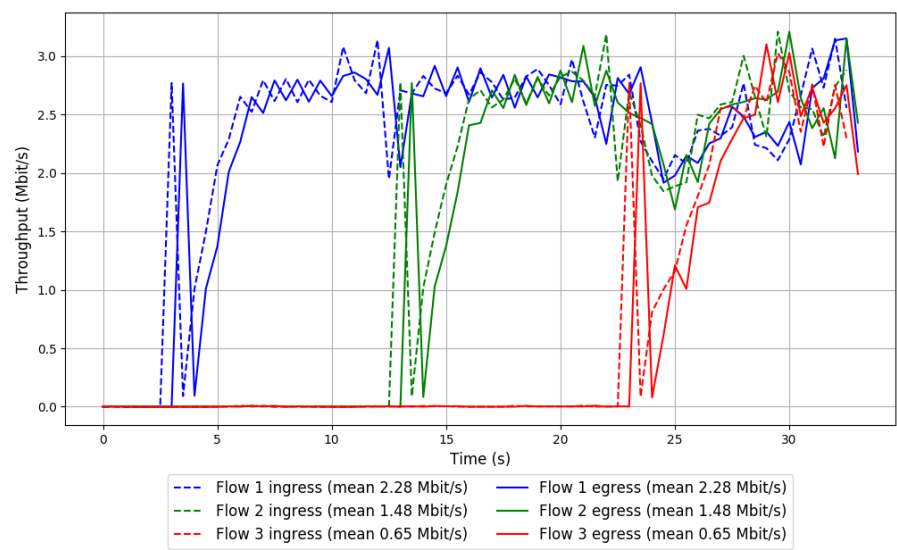
-- Flow 3:

Average throughput: 0.65 Mbit/s

95th percentile per-packet one-way delay: 32.814 ms

Loss rate: 0.72%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-05-25 12:54:35

End at: 2018-05-25 12:55:05

Local clock offset: 0.079 ms

Remote clock offset: 3.462 ms

Below is generated by plot.py at 2018-05-25 15:59:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.42 Mbit/s

95th percentile per-packet one-way delay: 27.138 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 26.980 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 1.50 Mbit/s

95th percentile per-packet one-way delay: 27.367 ms

Loss rate: 0.48%

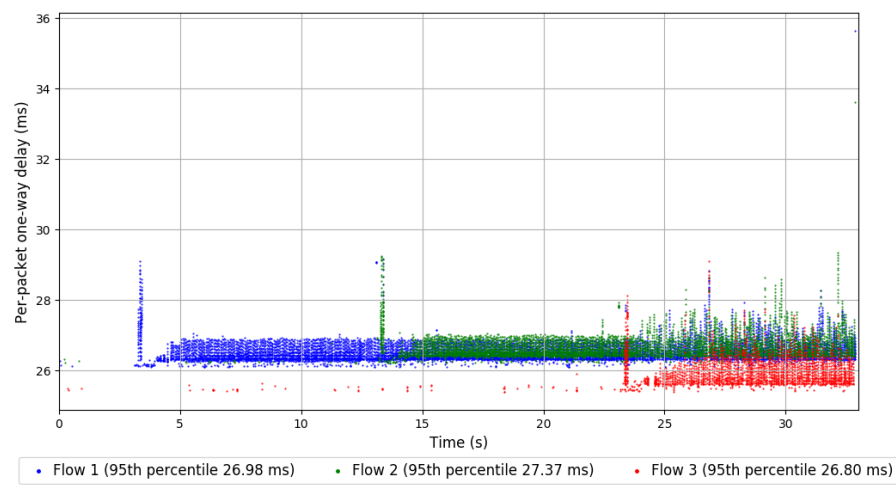
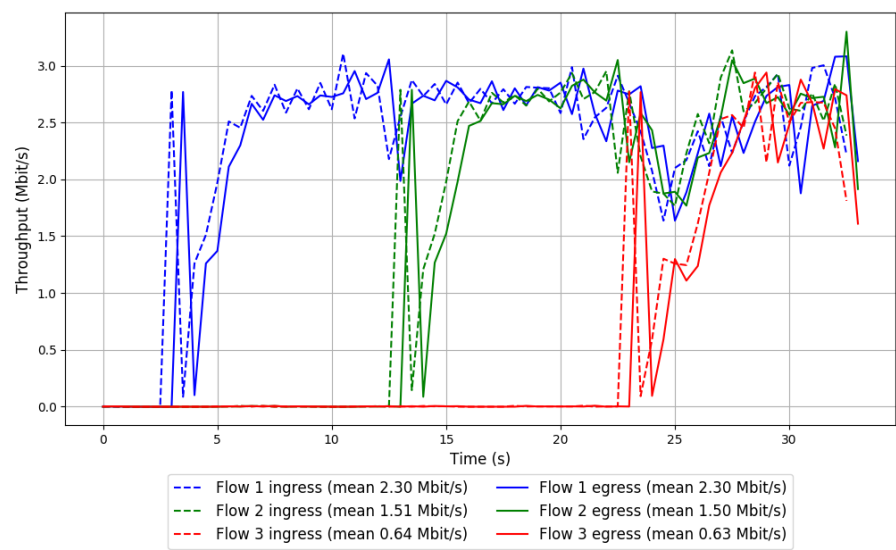
-- Flow 3:

Average throughput: 0.63 Mbit/s

95th percentile per-packet one-way delay: 26.800 ms

Loss rate: 0.49%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-05-25 13:15:57

End at: 2018-05-25 13:16:27

Local clock offset: 0.383 ms

Remote clock offset: 3.453 ms

Below is generated by plot.py at 2018-05-25 15:59:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.37 Mbit/s

95th percentile per-packet one-way delay: 32.287 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 32.263 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 1.47 Mbit/s

95th percentile per-packet one-way delay: 32.281 ms

Loss rate: 0.55%

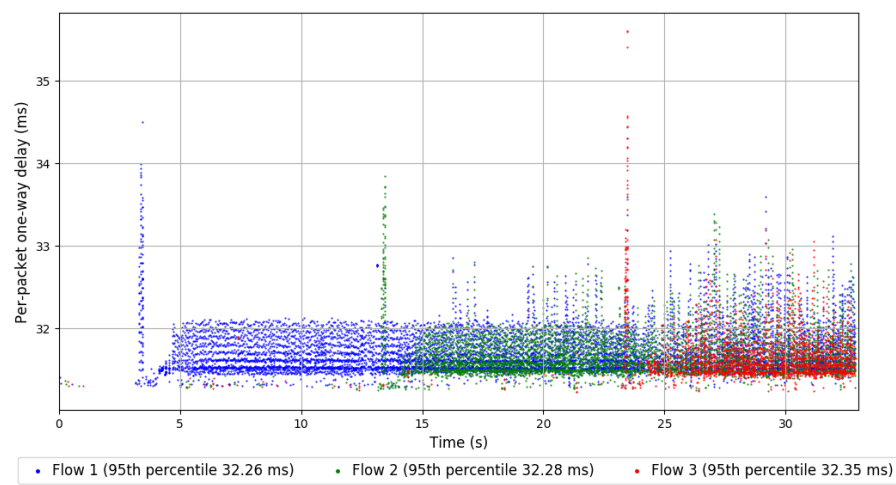
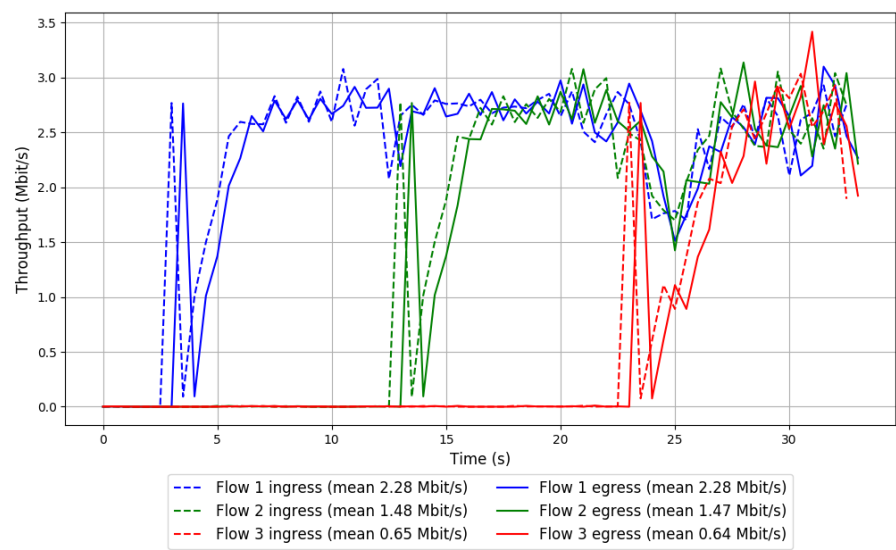
-- Flow 3:

Average throughput: 0.64 Mbit/s

95th percentile per-packet one-way delay: 32.354 ms

Loss rate: 1.01%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-05-25 13:37:17

End at: 2018-05-25 13:37:47

Local clock offset: 0.414 ms

Remote clock offset: 1.443 ms

Below is generated by plot.py at 2018-05-25 15:59:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.34 Mbit/s

95th percentile per-packet one-way delay: 33.960 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 34.088 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 1.48 Mbit/s

95th percentile per-packet one-way delay: 29.311 ms

Loss rate: 0.32%

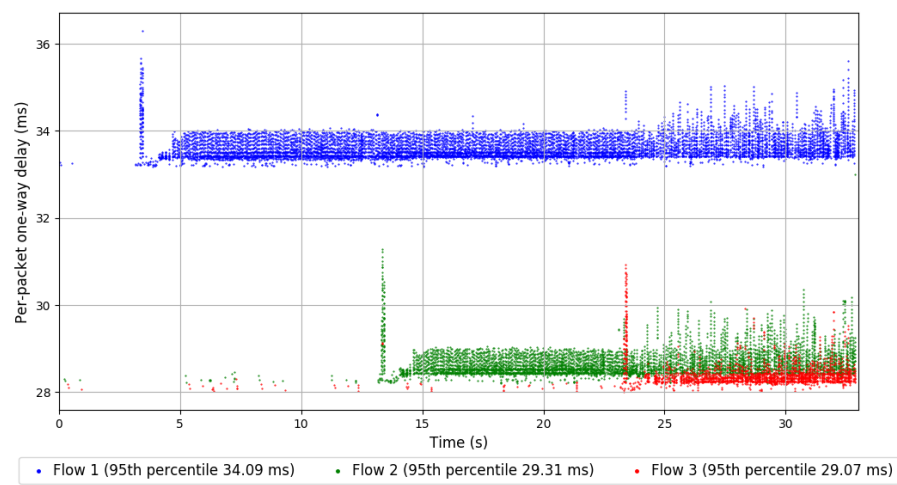
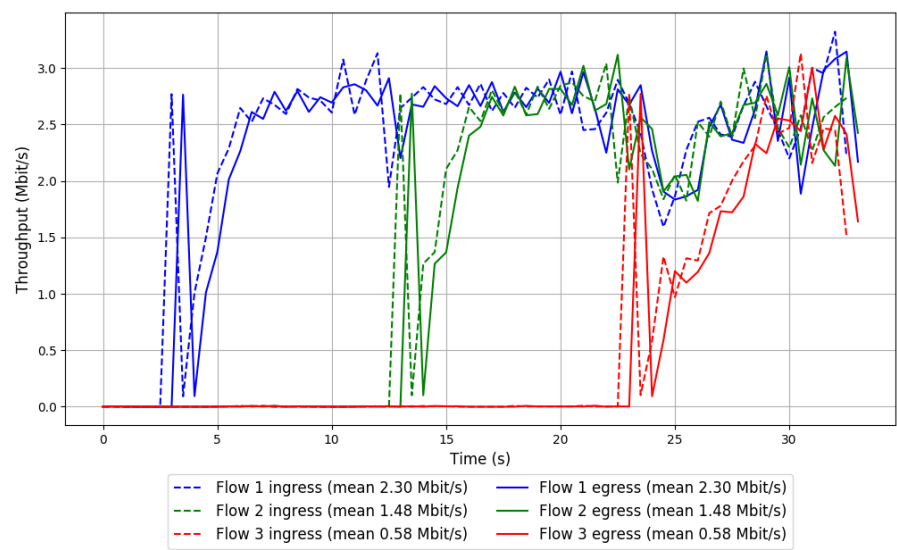
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 29.069 ms

Loss rate: 0.16%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-05-25 13:58:32

End at: 2018-05-25 13:59:02

Local clock offset: 0.537 ms

Remote clock offset: 3.506 ms

Below is generated by plot.py at 2018-05-25 15:59:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.30 Mbit/s

95th percentile per-packet one-way delay: 30.628 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 30.121 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 1.47 Mbit/s

95th percentile per-packet one-way delay: 30.313 ms

Loss rate: 0.43%

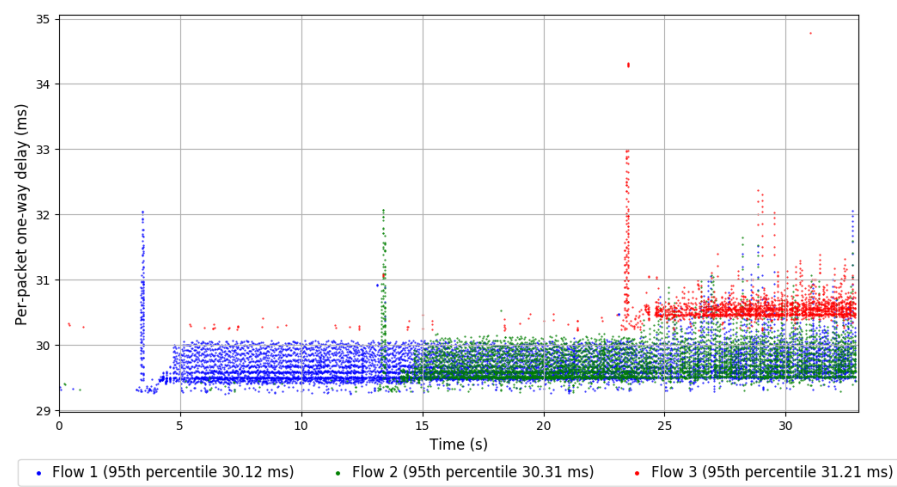
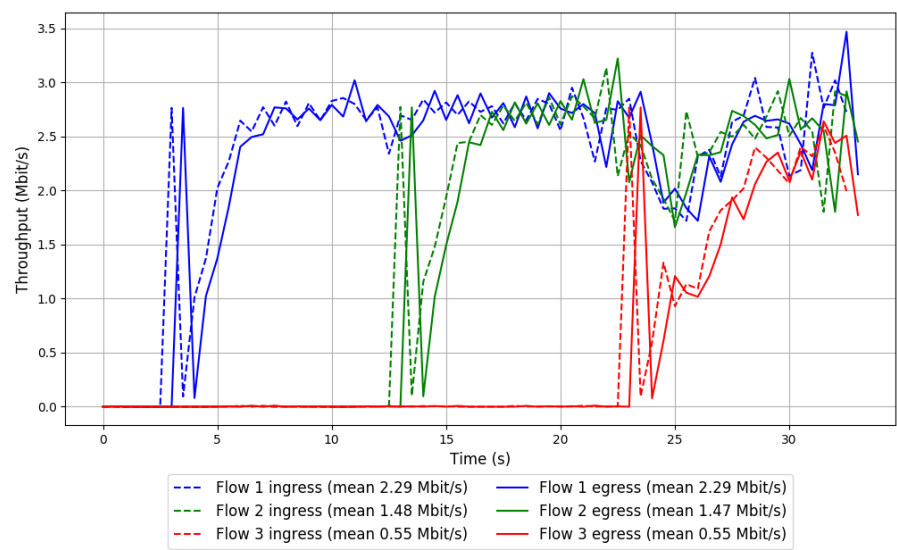
-- Flow 3:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 31.210 ms

Loss rate: 0.62%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-05-25 14:19:48

End at: 2018-05-25 14:20:18

Local clock offset: 0.211 ms

Remote clock offset: 3.032 ms

Below is generated by plot.py at 2018-05-25 15:59:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.20 Mbit/s

95th percentile per-packet one-way delay: 31.587 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 26.392 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 1.48 Mbit/s

95th percentile per-packet one-way delay: 26.594 ms

Loss rate: 0.38%

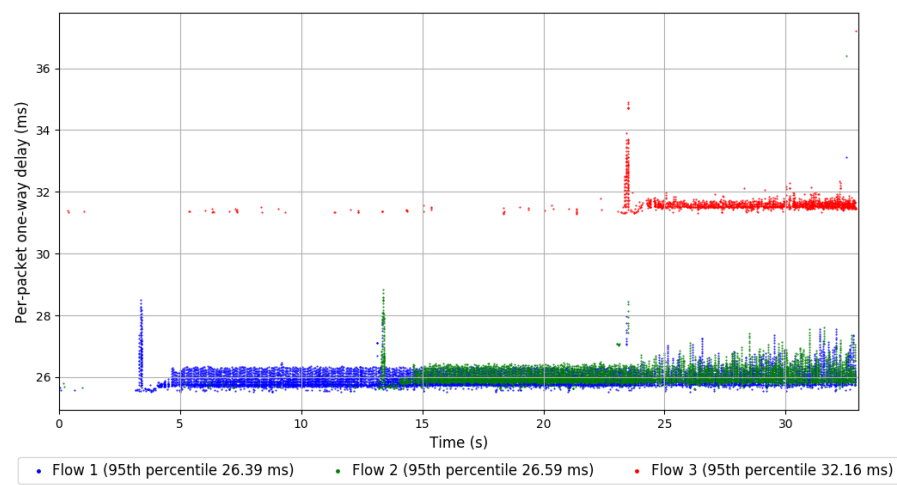
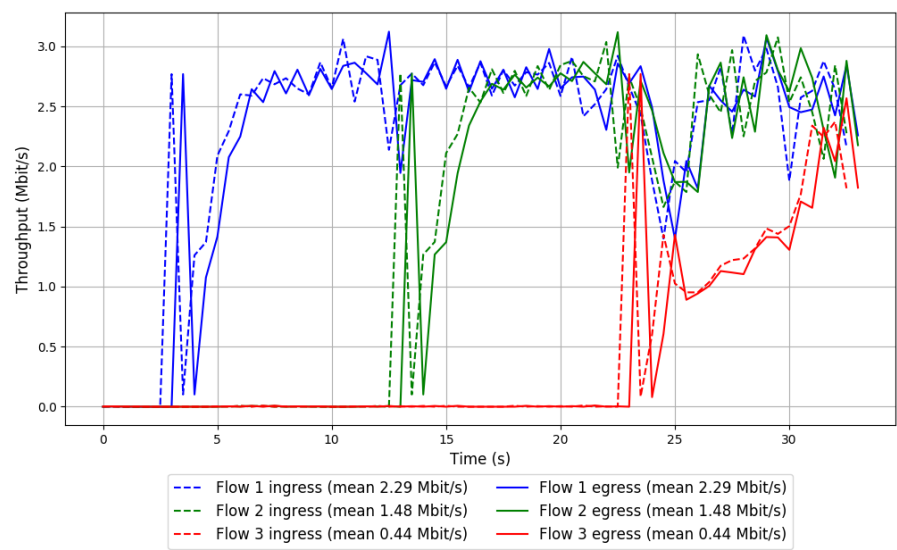
-- Flow 3:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 32.162 ms

Loss rate: 0.45%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-05-25 14:41:04

End at: 2018-05-25 14:41:34

Local clock offset: 0.122 ms

Remote clock offset: 0.939 ms

Below is generated by plot.py at 2018-05-25 15:59:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.36 Mbit/s

95th percentile per-packet one-way delay: 34.041 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 32.650 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 1.46 Mbit/s

95th percentile per-packet one-way delay: 34.289 ms

Loss rate: 0.54%

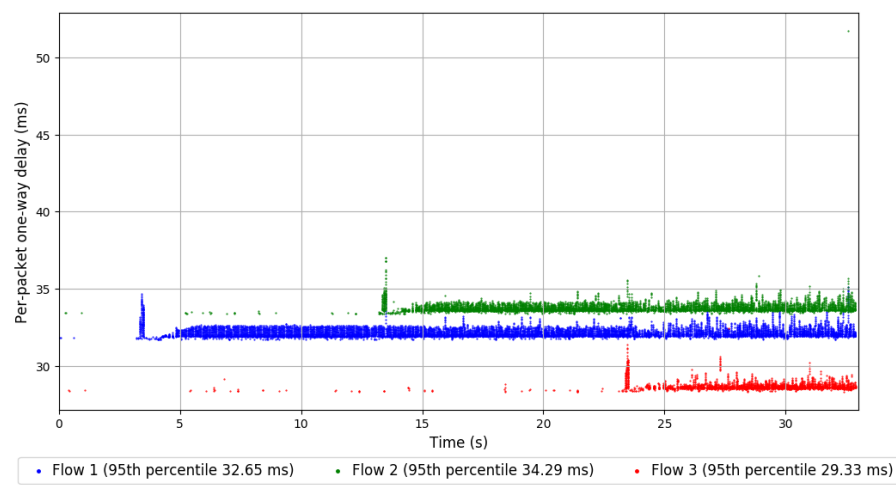
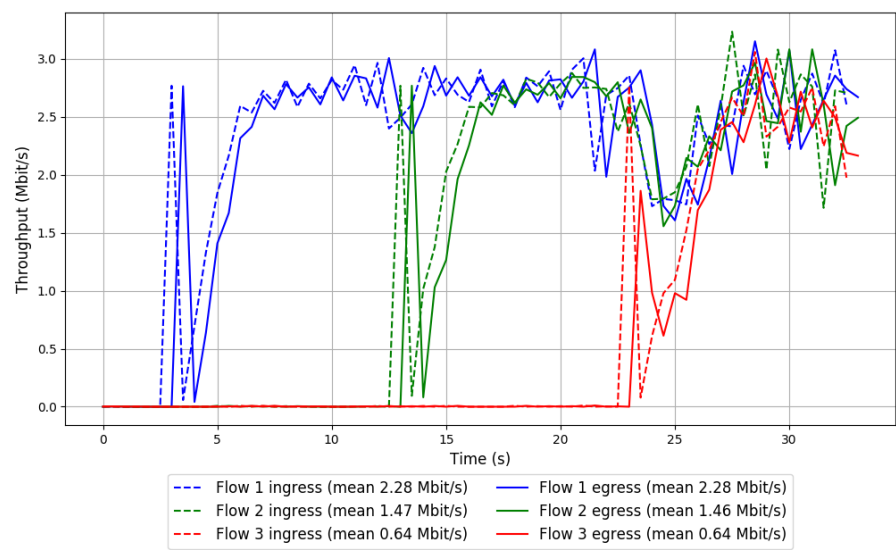
-- Flow 3:

Average throughput: 0.64 Mbit/s

95th percentile per-packet one-way delay: 29.332 ms

Loss rate: 0.52%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-05-25 15:02:21

End at: 2018-05-25 15:02:51

Local clock offset: 0.283 ms

Remote clock offset: 3.095 ms

Below is generated by plot.py at 2018-05-25 15:59:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.40 Mbit/s

95th percentile per-packet one-way delay: 30.626 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 30.722 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 1.48 Mbit/s

95th percentile per-packet one-way delay: 25.993 ms

Loss rate: 0.42%

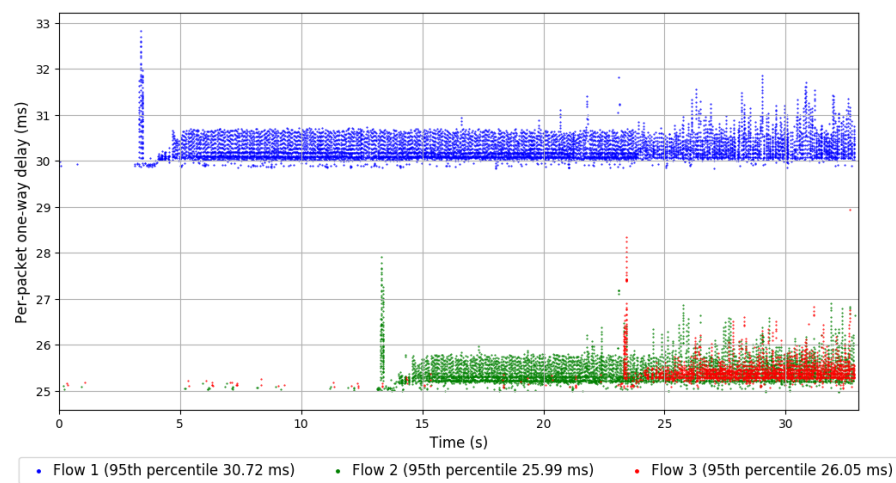
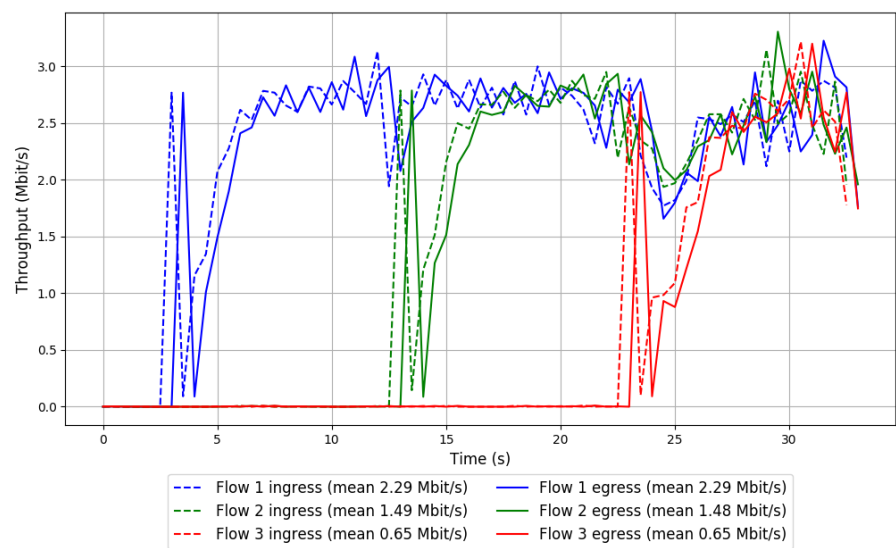
-- Flow 3:

Average throughput: 0.65 Mbit/s

95th percentile per-packet one-way delay: 26.052 ms

Loss rate: 0.56%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-05-25 15:23:43

End at: 2018-05-25 15:24:13

Local clock offset: 0.619 ms

Remote clock offset: 2.418 ms

Below is generated by plot.py at 2018-05-25 15:59:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.36 Mbit/s

95th percentile per-packet one-way delay: 31.981 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 31.248 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 1.45 Mbit/s

95th percentile per-packet one-way delay: 32.252 ms

Loss rate: 0.07%

-- Flow 3:

Average throughput: 0.65 Mbit/s

95th percentile per-packet one-way delay: 27.189 ms

Loss rate: 0.30%

Run 10: Report of WebRTC media — Data Link

