

Pantheon Report

Generated at 2018-08-02 04:31:39 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

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

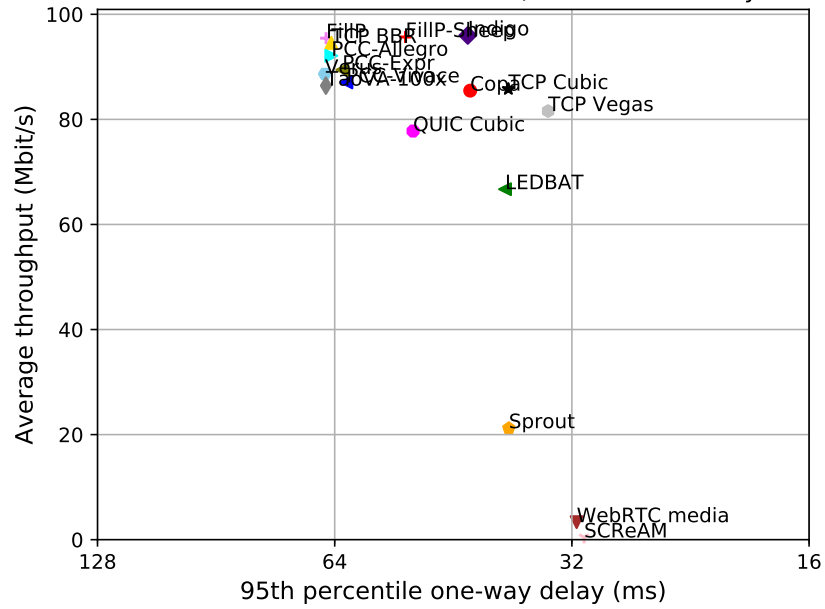
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

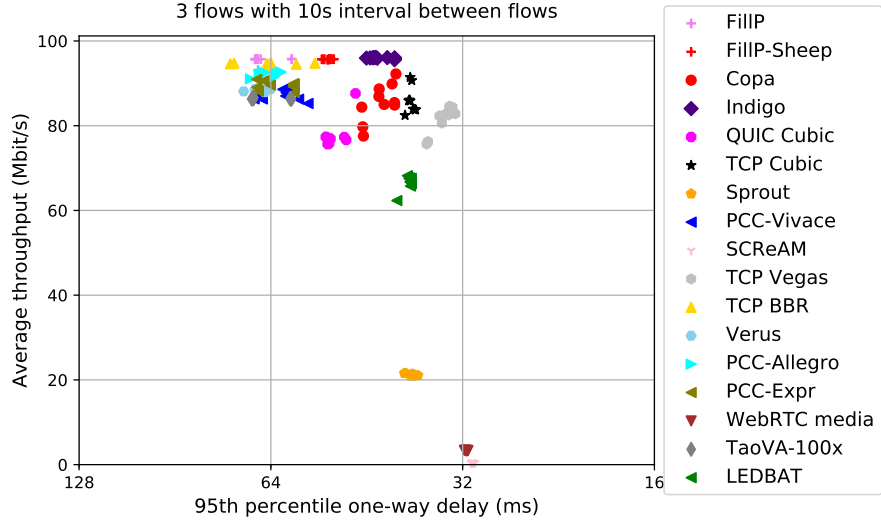
Git summary:

```
branch: master @ 640164b5b17c7c6561fff57729b3b5935d8596ce
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ daed0c84f98531712514b2231f43ec6901114ffe
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf90c077e64d
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webRTC @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from 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	58.78	38.38	30.97	60.97	67.78	66.55	1.84	3.09	2.93
Copa	10	50.46	37.92	29.49	41.46	44.46	43.57	0.15	0.30	0.72
TCP Cubic	10	50.49	37.74	30.72	37.82	38.66	38.37	0.15	0.33	0.74
FillP	10	59.05	39.06	31.61	60.11	62.83	62.26	1.69	3.68	4.46
FillP-Sheep	10	58.34	39.58	33.38	52.10	53.03	55.92	0.87	0.74	1.02
Indigo	10	59.82	38.92	31.48	43.12	44.76	43.33	0.23	0.40	0.76
LEDBAT	10	39.68	30.31	20.74	38.34	39.81	39.83	0.20	0.34	1.02
PCC-Allegro	10	58.47	36.01	29.54	58.64	66.73	63.20	4.19	4.09	1.90
PCC-Expr	10	54.75	37.18	30.34	57.25	63.15	60.26	0.61	1.09	1.15
QUIC Cubic	10	44.72	36.49	26.78	42.33	52.71	67.40	0.22	0.37	1.19
SCReAM	10	0.21	0.21	0.22	30.87	30.86	30.85	0.21	0.37	0.71
Sprout	10	10.81	10.59	10.24	38.25	38.45	39.42	0.20	0.34	0.74
TaoVA-100x	10	48.78	41.32	30.60	63.82	58.66	62.56	0.61	1.05	2.86
TCP Vegas	10	47.76	34.24	33.35	36.59	33.34	35.14	0.14	0.32	0.74
Verus	10	54.61	37.15	28.20	59.58	69.37	69.45	0.34	0.50	1.14
PCC-Vivace	10	55.19	34.29	27.54	54.53	61.97	63.79	1.77	1.54	1.66
WebRTC media	10	1.84	1.06	0.45	31.46	31.60	31.77	0.12	0.35	0.54

Run 1: Statistics of TCP BBR

Start at: 2018-08-02 00:15:26

End at: 2018-08-02 00:15:56

Local clock offset: -0.194 ms

Remote clock offset: 2.201 ms

Below is generated by plot.py at 2018-08-02 04:09:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.60 Mbit/s

95th percentile per-packet one-way delay: 74.102 ms

Loss rate: 2.23%

-- Flow 1:

Average throughput: 62.73 Mbit/s

95th percentile per-packet one-way delay: 54.257 ms

Loss rate: 1.94%

-- Flow 2:

Average throughput: 35.77 Mbit/s

95th percentile per-packet one-way delay: 75.224 ms

Loss rate: 2.57%

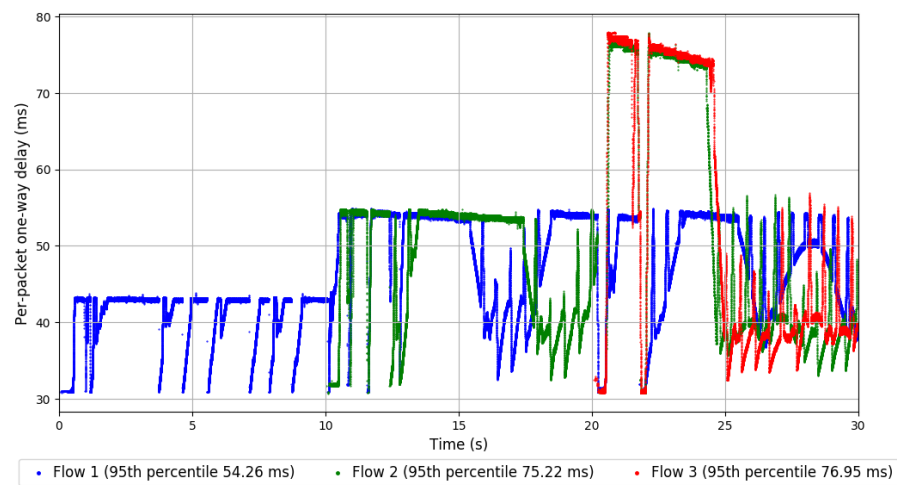
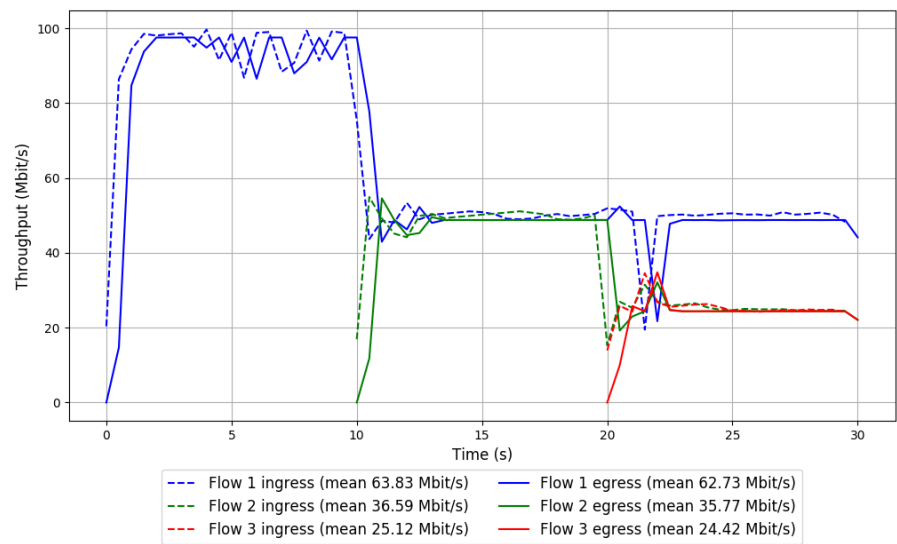
-- Flow 3:

Average throughput: 24.42 Mbit/s

95th percentile per-packet one-way delay: 76.951 ms

Loss rate: 3.46%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-08-02 00:38:16

End at: 2018-08-02 00:38:46

Local clock offset: 0.129 ms

Remote clock offset: 1.443 ms

Below is generated by plot.py at 2018-08-02 04:09:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.43 Mbit/s

95th percentile per-packet one-way delay: 64.458 ms

Loss rate: 2.21%

-- Flow 1:

Average throughput: 57.51 Mbit/s

95th percentile per-packet one-way delay: 60.229 ms

Loss rate: 1.83%

-- Flow 2:

Average throughput: 39.68 Mbit/s

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

Loss rate: 2.66%

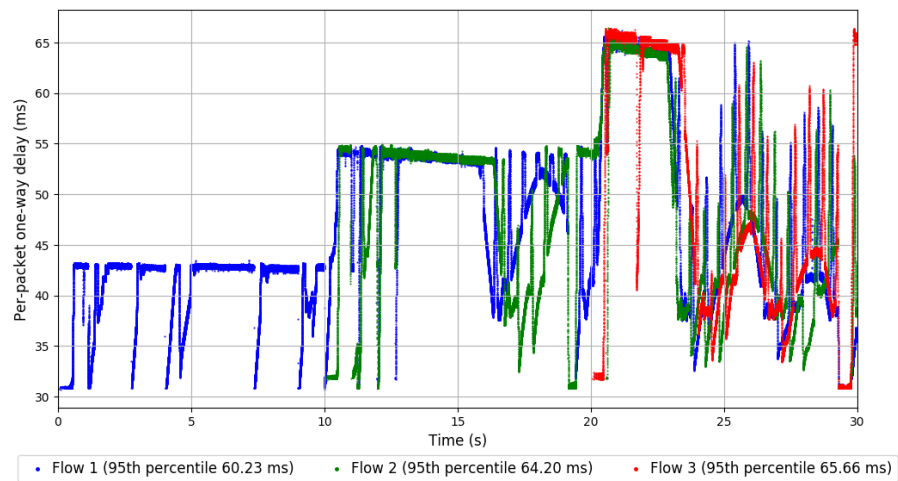
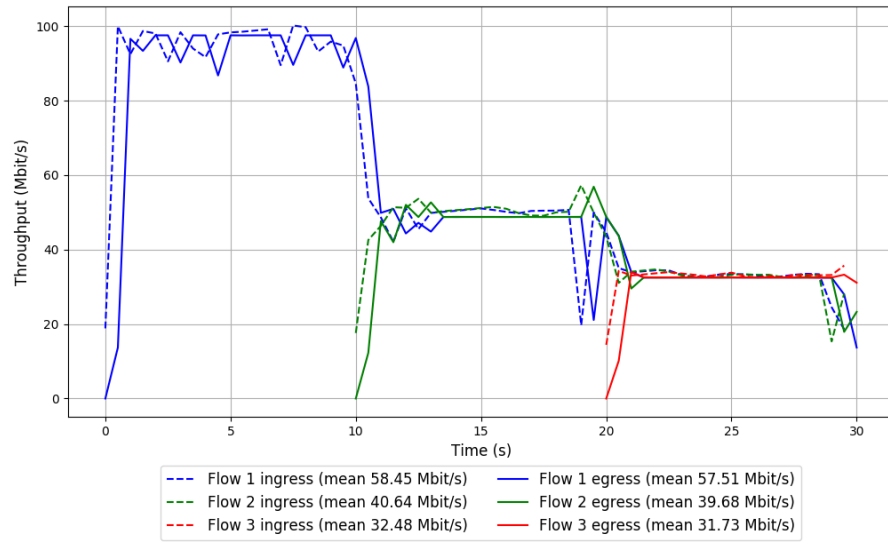
-- Flow 3:

Average throughput: 31.73 Mbit/s

95th percentile per-packet one-way delay: 65.661 ms

Loss rate: 3.09%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-08-02 01:01:09

End at: 2018-08-02 01:01:39

Local clock offset: 0.262 ms

Remote clock offset: 1.377 ms

Below is generated by plot.py at 2018-08-02 04:09:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.61 Mbit/s

95th percentile per-packet one-way delay: 64.920 ms

Loss rate: 2.24%

-- Flow 1:

Average throughput: 57.53 Mbit/s

95th percentile per-packet one-way delay: 63.892 ms

Loss rate: 1.55%

-- Flow 2:

Average throughput: 39.86 Mbit/s

95th percentile per-packet one-way delay: 64.261 ms

Loss rate: 3.38%

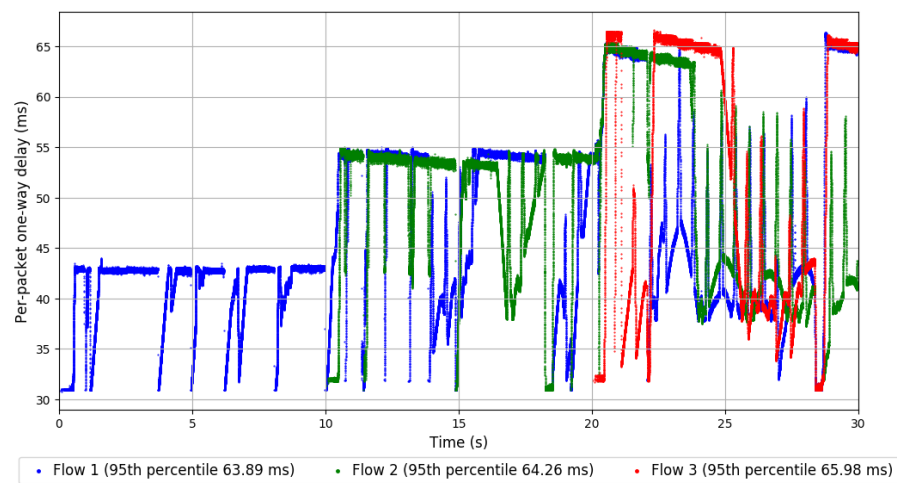
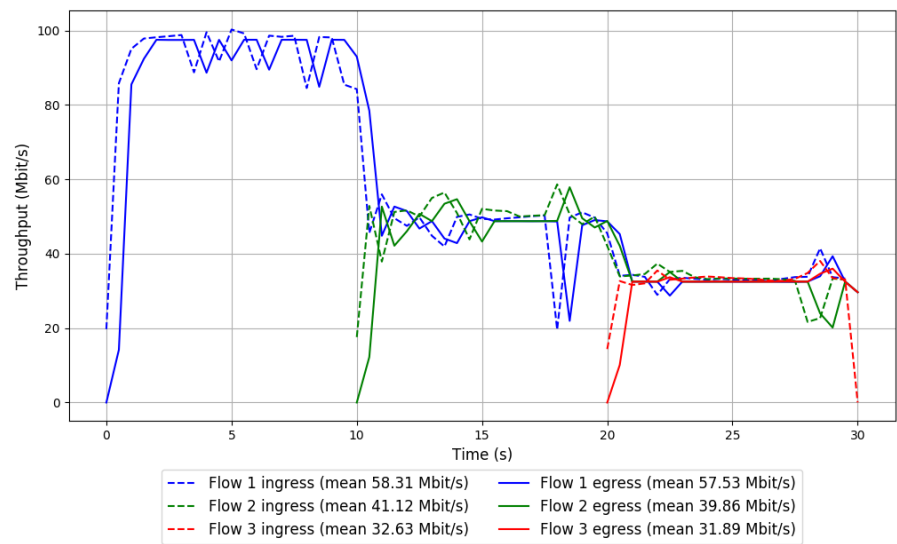
-- Flow 3:

Average throughput: 31.89 Mbit/s

95th percentile per-packet one-way delay: 65.985 ms

Loss rate: 3.09%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-08-02 01:24:17

End at: 2018-08-02 01:24:47

Local clock offset: 0.147 ms

Remote clock offset: 2.41 ms

Below is generated by plot.py at 2018-08-02 04:09:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.78 Mbit/s

95th percentile per-packet one-way delay: 64.009 ms

Loss rate: 2.41%

-- Flow 1:

Average throughput: 57.87 Mbit/s

95th percentile per-packet one-way delay: 63.931 ms

Loss rate: 2.02%

-- Flow 2:

Average throughput: 39.68 Mbit/s

95th percentile per-packet one-way delay: 62.916 ms

Loss rate: 3.33%

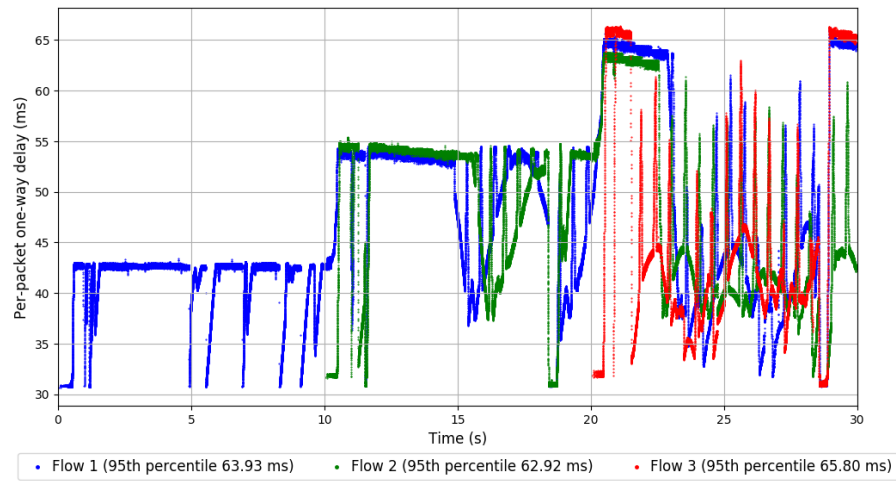
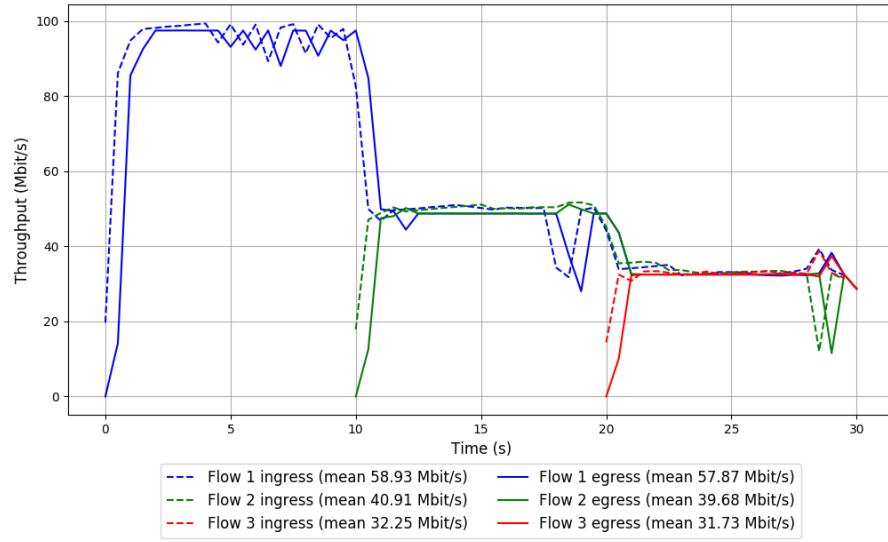
-- Flow 3:

Average throughput: 31.73 Mbit/s

95th percentile per-packet one-way delay: 65.804 ms

Loss rate: 2.27%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-08-02 01:47:18

End at: 2018-08-02 01:47:48

Local clock offset: 0.168 ms

Remote clock offset: 2.437 ms

Below is generated by plot.py at 2018-08-02 04:09:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.71 Mbit/s

95th percentile per-packet one-way delay: 64.107 ms

Loss rate: 2.51%

-- Flow 1:

Average throughput: 57.85 Mbit/s

95th percentile per-packet one-way delay: 57.423 ms

Loss rate: 1.94%

-- Flow 2:

Average throughput: 39.59 Mbit/s

95th percentile per-packet one-way delay: 63.970 ms

Loss rate: 3.18%

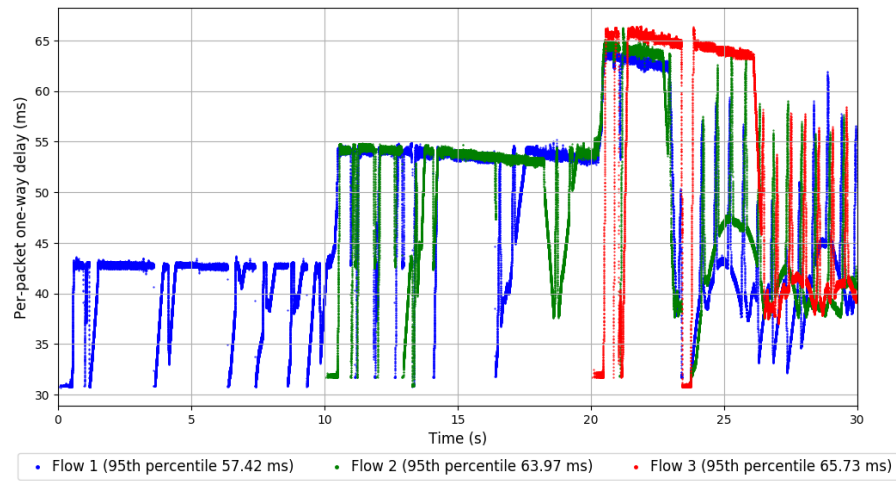
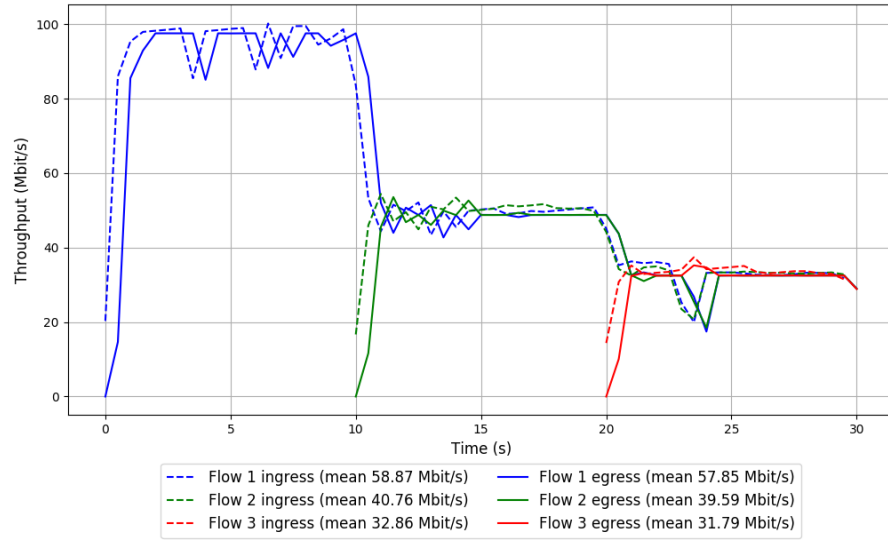
-- Flow 3:

Average throughput: 31.79 Mbit/s

95th percentile per-packet one-way delay: 65.730 ms

Loss rate: 3.88%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-08-02 02:10:16

End at: 2018-08-02 02:10:46

Local clock offset: 0.014 ms

Remote clock offset: 2.312 ms

Below is generated by plot.py at 2018-08-02 04:09:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.51 Mbit/s

95th percentile per-packet one-way delay: 64.903 ms

Loss rate: 2.57%

-- Flow 1:

Average throughput: 57.52 Mbit/s

95th percentile per-packet one-way delay: 64.778 ms

Loss rate: 2.15%

-- Flow 2:

Average throughput: 39.55 Mbit/s

95th percentile per-packet one-way delay: 63.356 ms

Loss rate: 3.21%

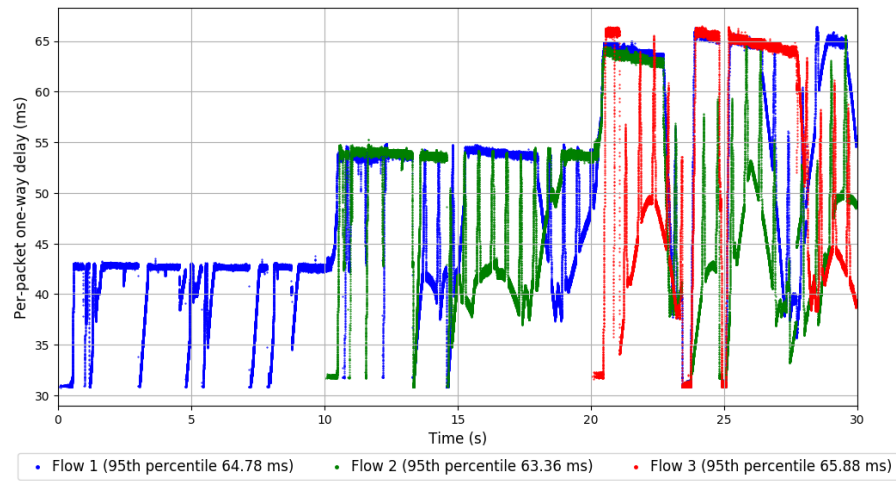
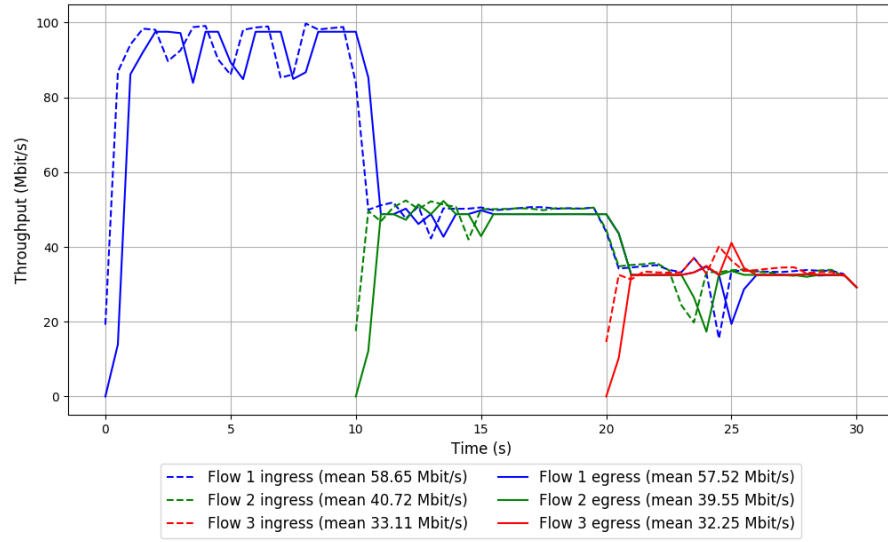
-- Flow 3:

Average throughput: 32.25 Mbit/s

95th percentile per-packet one-way delay: 65.882 ms

Loss rate: 3.25%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-08-02 02:33:30

End at: 2018-08-02 02:34:00

Local clock offset: -2.43 ms

Remote clock offset: 1.729 ms

Below is generated by plot.py at 2018-08-02 04:09:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.76 Mbit/s

95th percentile per-packet one-way delay: 54.576 ms

Loss rate: 2.25%

-- Flow 1:

Average throughput: 62.85 Mbit/s

95th percentile per-packet one-way delay: 54.382 ms

Loss rate: 1.93%

-- Flow 2:

Average throughput: 36.21 Mbit/s

95th percentile per-packet one-way delay: 72.567 ms

Loss rate: 2.96%

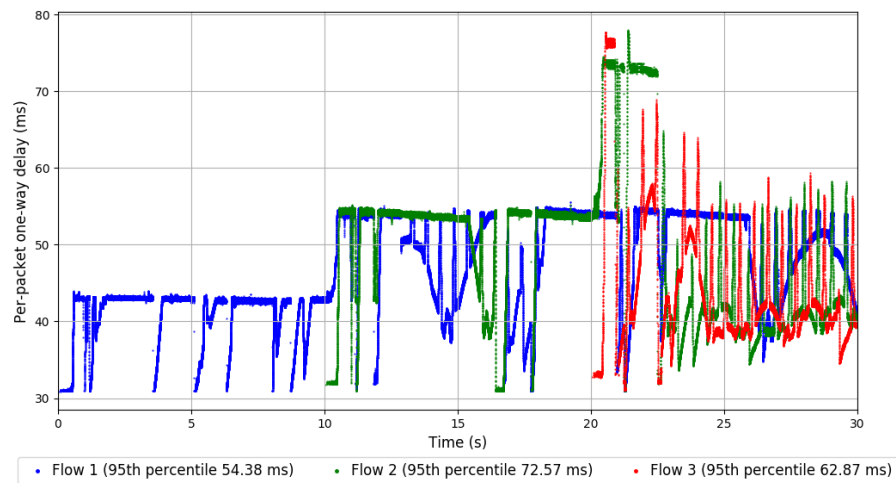
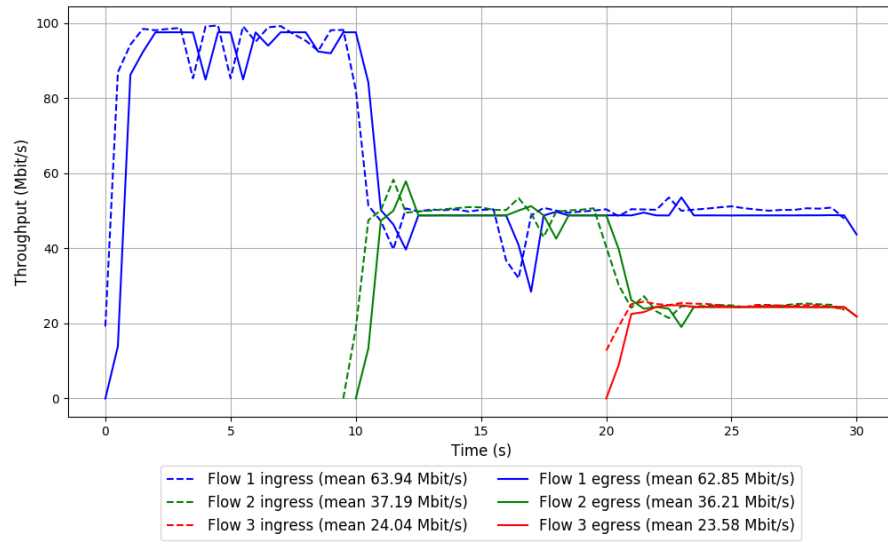
-- Flow 3:

Average throughput: 23.58 Mbit/s

95th percentile per-packet one-way delay: 62.871 ms

Loss rate: 2.57%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-08-02 02:56:31

End at: 2018-08-02 02:57:01

Local clock offset: -4.258 ms

Remote clock offset: 2.011 ms

Below is generated by plot.py at 2018-08-02 04:09:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.05 Mbit/s

95th percentile per-packet one-way delay: 63.821 ms

Loss rate: 2.00%

-- Flow 1:

Average throughput: 56.64 Mbit/s

95th percentile per-packet one-way delay: 64.233 ms

Loss rate: 1.49%

-- Flow 2:

Average throughput: 40.51 Mbit/s

95th percentile per-packet one-way delay: 63.595 ms

Loss rate: 3.03%

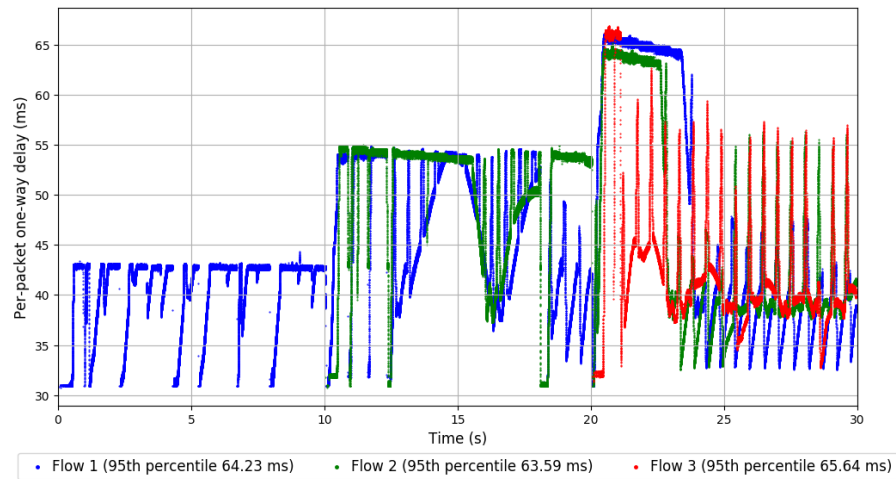
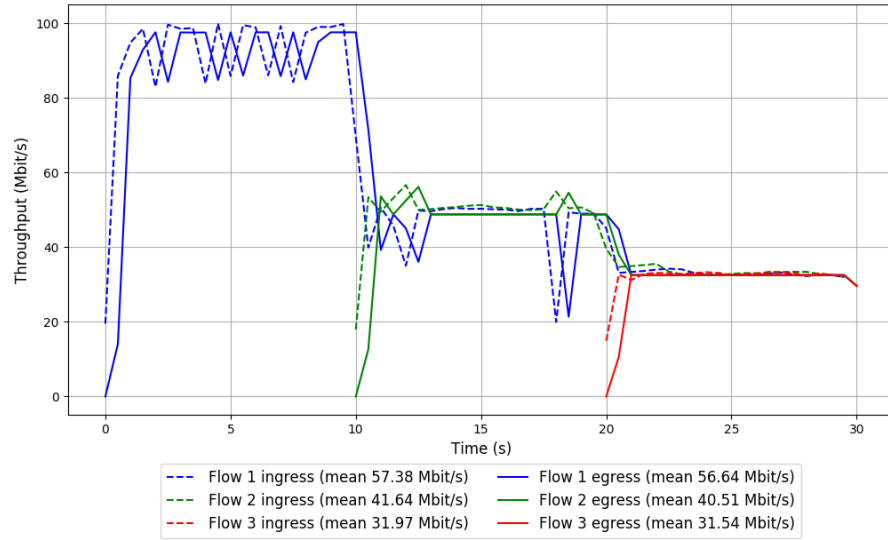
-- Flow 3:

Average throughput: 31.54 Mbit/s

95th percentile per-packet one-way delay: 65.640 ms

Loss rate: 2.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-08-02 03:19:23

End at: 2018-08-02 03:19:53

Local clock offset: -5.547 ms

Remote clock offset: 2.317 ms

Below is generated by plot.py at 2018-08-02 04:10:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.72 Mbit/s

95th percentile per-packet one-way delay: 73.104 ms

Loss rate: 2.40%

-- Flow 1:

Average throughput: 55.07 Mbit/s

95th percentile per-packet one-way delay: 72.751 ms

Loss rate: 1.77%

-- Flow 2:

Average throughput: 36.12 Mbit/s

95th percentile per-packet one-way delay: 74.537 ms

Loss rate: 3.16%

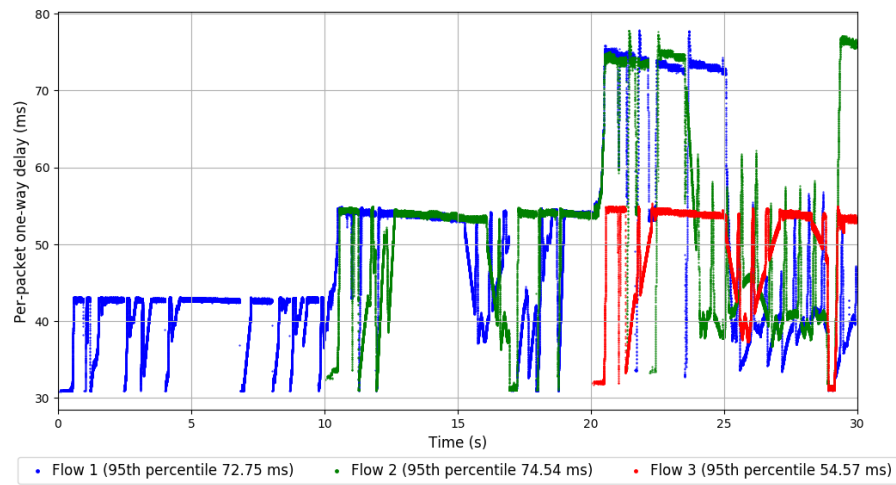
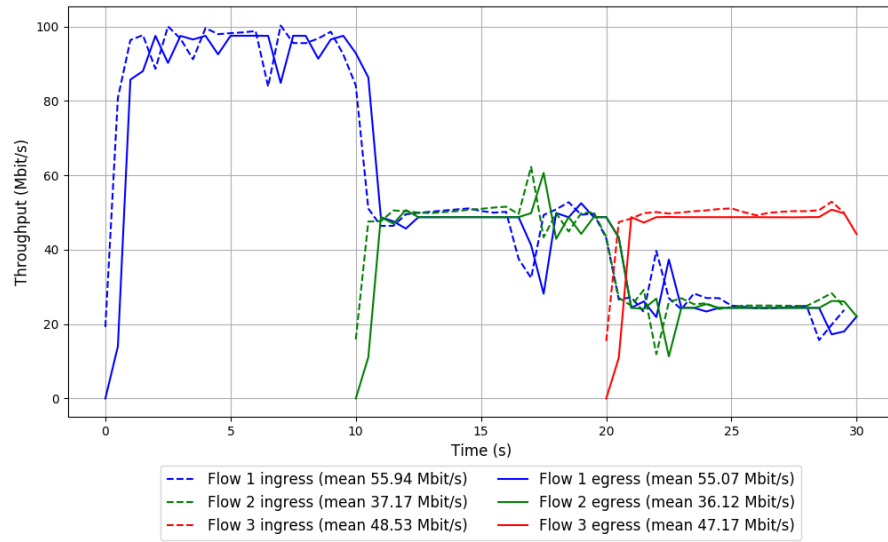
-- Flow 3:

Average throughput: 47.17 Mbit/s

95th percentile per-packet one-way delay: 54.573 ms

Loss rate: 3.45%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-08-02 03:42:29

End at: 2018-08-02 03:42:59

Local clock offset: 0.735 ms

Remote clock offset: 2.878 ms

Below is generated by plot.py at 2018-08-02 04:10:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.51 Mbit/s

95th percentile per-packet one-way delay: 58.372 ms

Loss rate: 2.25%

-- Flow 1:

Average throughput: 62.22 Mbit/s

95th percentile per-packet one-way delay: 53.866 ms

Loss rate: 1.78%

-- Flow 2:

Average throughput: 36.78 Mbit/s

95th percentile per-packet one-way delay: 73.183 ms

Loss rate: 3.40%

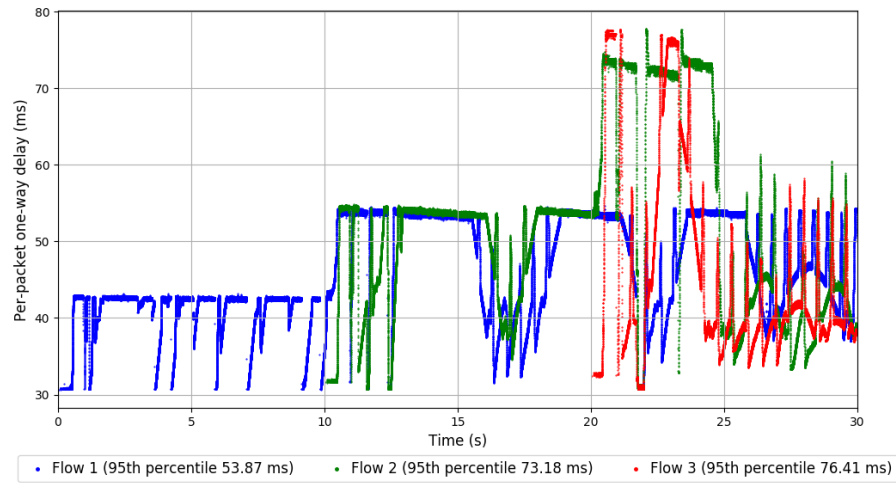
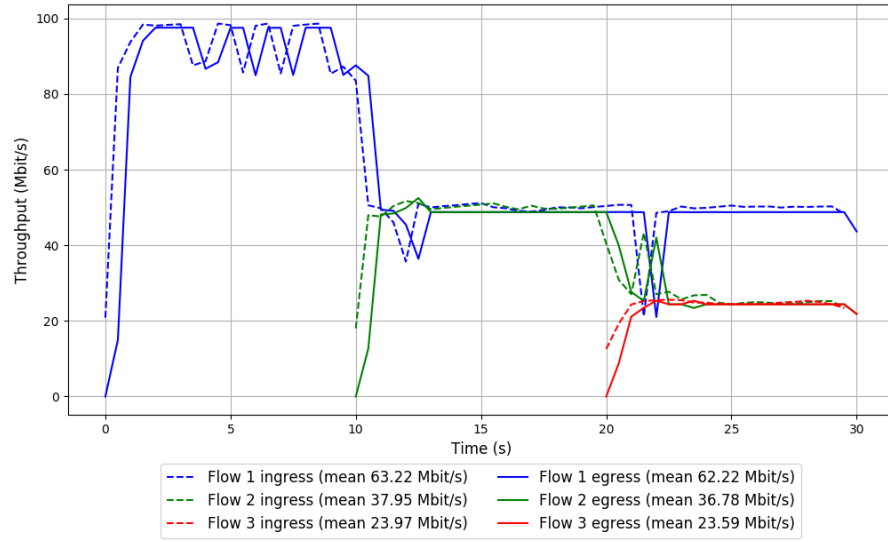
-- Flow 3:

Average throughput: 23.59 Mbit/s

95th percentile per-packet one-way delay: 76.410 ms

Loss rate: 2.26%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-08-02 00:18:06

End at: 2018-08-02 00:18:36

Local clock offset: -0.191 ms

Remote clock offset: 2.273 ms

Below is generated by plot.py at 2018-08-02 04:11:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.46 Mbit/s

95th percentile per-packet one-way delay: 40.940 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 49.81 Mbit/s

95th percentile per-packet one-way delay: 40.936 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 36.31 Mbit/s

95th percentile per-packet one-way delay: 37.095 ms

Loss rate: 0.33%

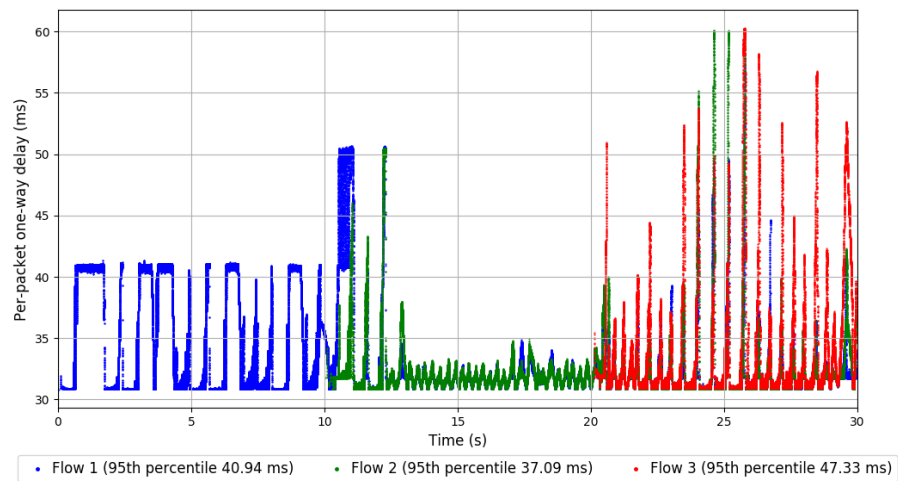
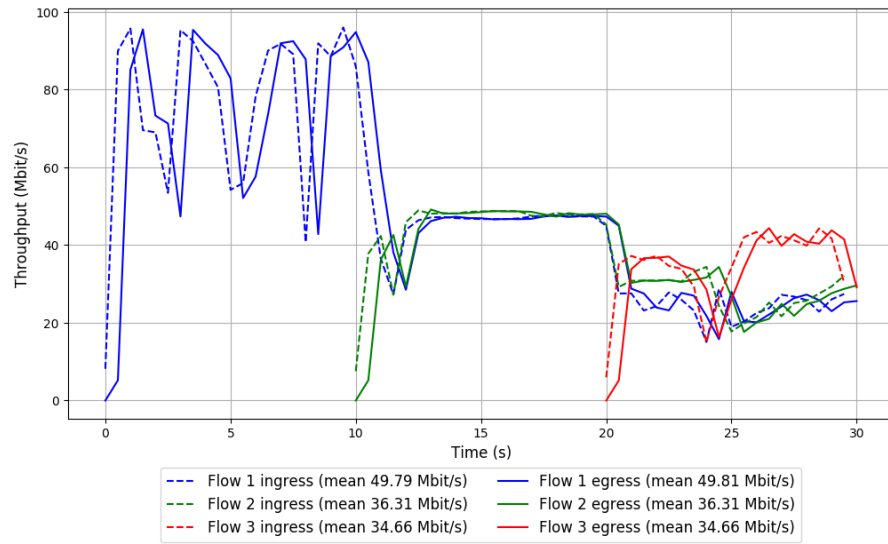
-- Flow 3:

Average throughput: 34.66 Mbit/s

95th percentile per-packet one-way delay: 47.332 ms

Loss rate: 0.64%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-08-02 00:40:56

End at: 2018-08-02 00:41:26

Local clock offset: 0.162 ms

Remote clock offset: 1.431 ms

Below is generated by plot.py at 2018-08-02 04:11:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.56 Mbit/s

95th percentile per-packet one-way delay: 45.798 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 46.43 Mbit/s

95th percentile per-packet one-way delay: 43.283 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 30.38 Mbit/s

95th percentile per-packet one-way delay: 49.939 ms

Loss rate: 0.25%

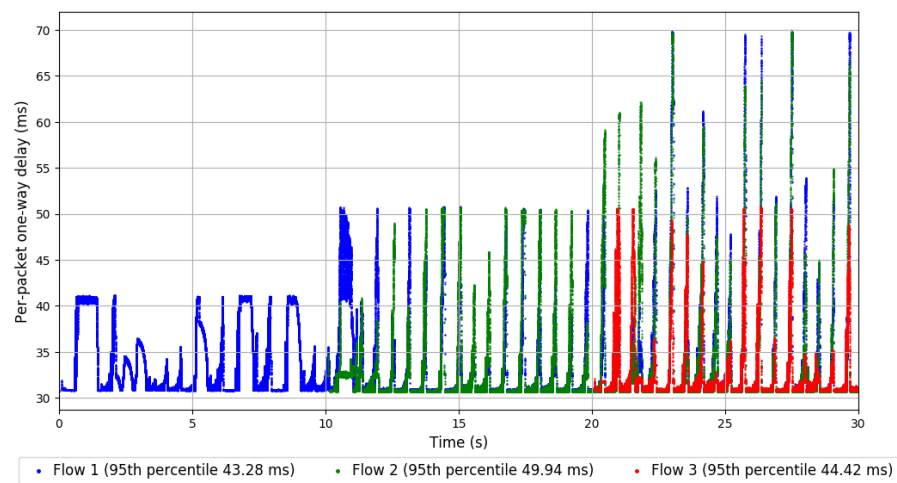
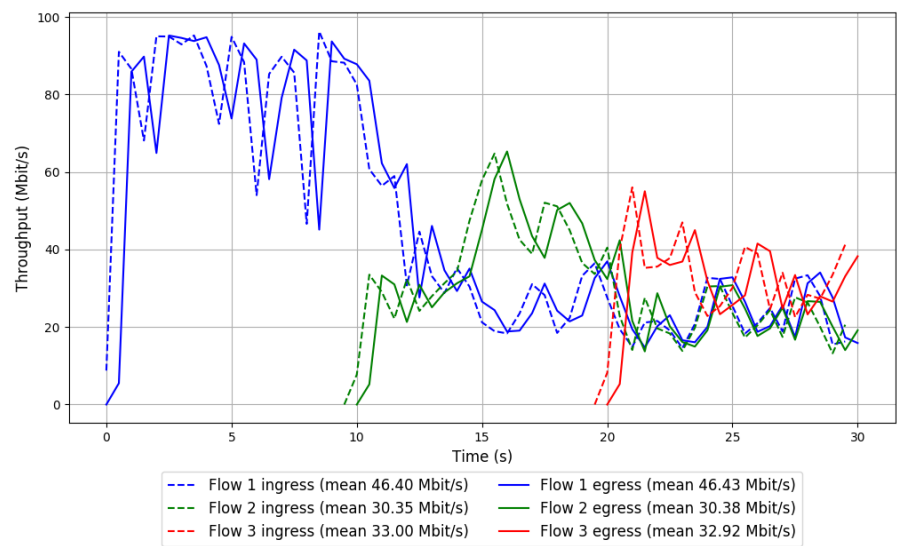
-- Flow 3:

Average throughput: 32.92 Mbit/s

95th percentile per-packet one-way delay: 44.420 ms

Loss rate: 0.87%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-08-02 01:03:50

End at: 2018-08-02 01:04:20

Local clock offset: 0.175 ms

Remote clock offset: 1.596 ms

Below is generated by plot.py at 2018-08-02 04:11:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.86 Mbit/s

95th percentile per-packet one-way delay: 41.298 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 54.21 Mbit/s

95th percentile per-packet one-way delay: 41.149 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 40.12 Mbit/s

95th percentile per-packet one-way delay: 43.912 ms

Loss rate: 0.32%

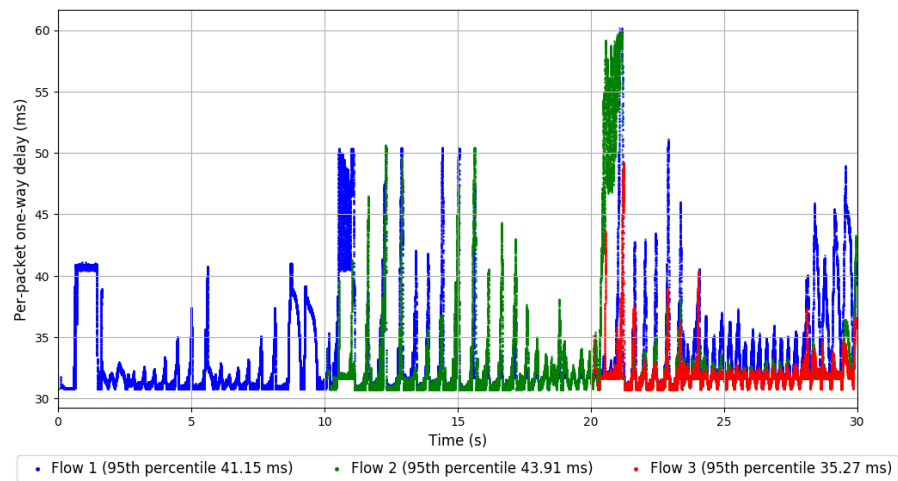
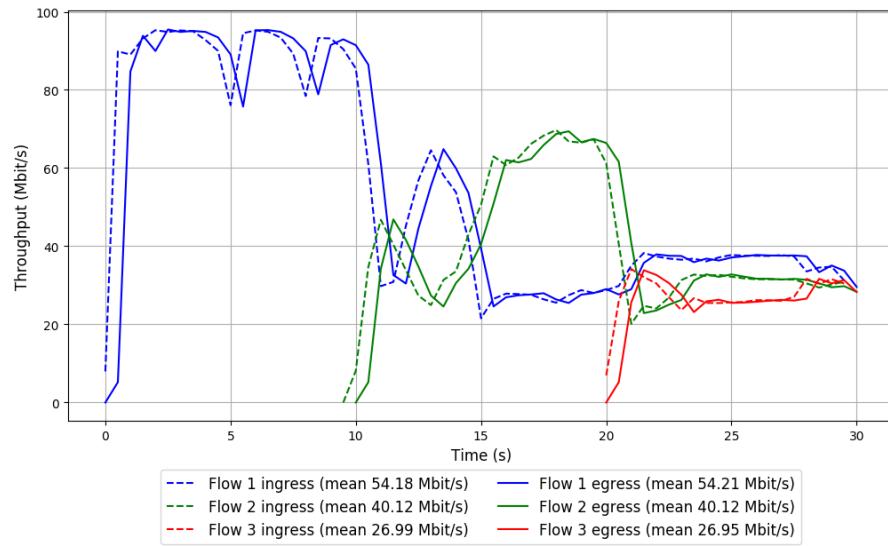
-- Flow 3:

Average throughput: 26.95 Mbit/s

95th percentile per-packet one-way delay: 35.271 ms

Loss rate: 0.81%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-08-02 01:26:57

End at: 2018-08-02 01:27:27

Local clock offset: 0.225 ms

Remote clock offset: 2.505 ms

Below is generated by plot.py at 2018-08-02 04:11:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.02 Mbit/s

95th percentile per-packet one-way delay: 42.498 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 58.46 Mbit/s

95th percentile per-packet one-way delay: 40.898 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 31.33 Mbit/s

95th percentile per-packet one-way delay: 46.460 ms

Loss rate: 0.39%

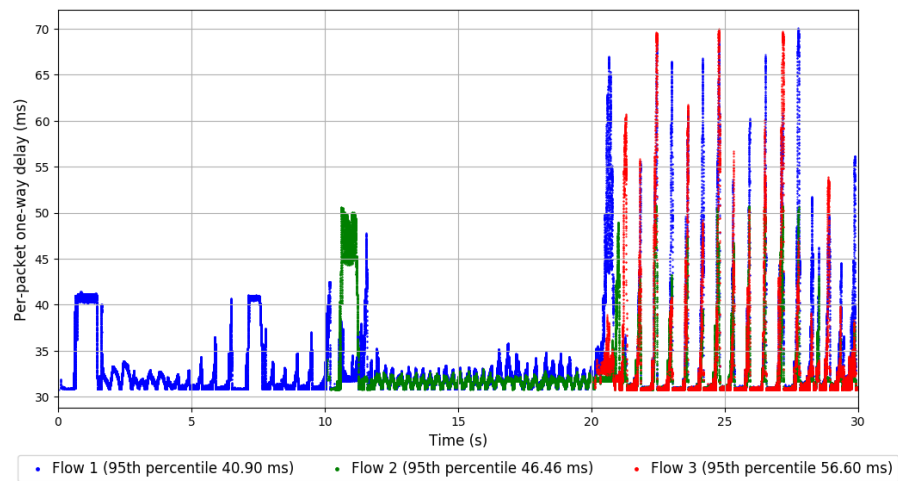
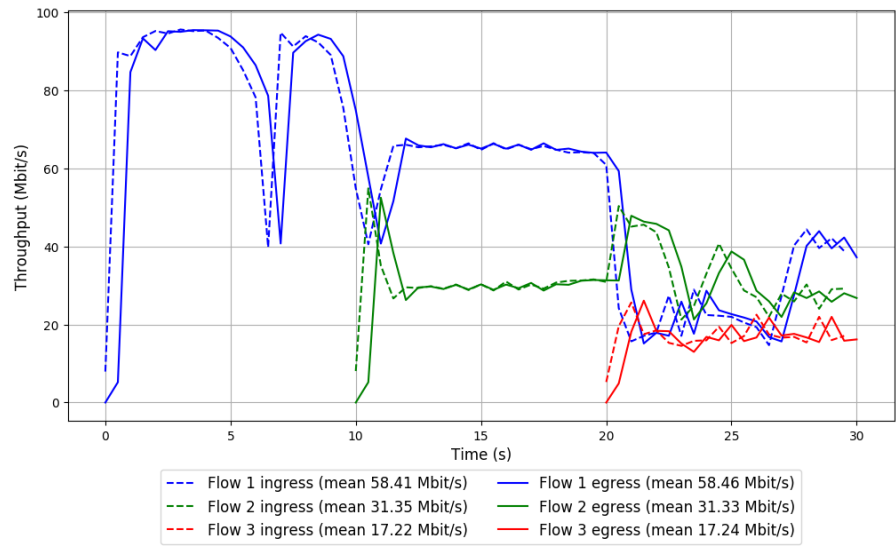
-- Flow 3:

Average throughput: 17.24 Mbit/s

95th percentile per-packet one-way delay: 56.605 ms

Loss rate: 0.56%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-08-02 01:49:59

End at: 2018-08-02 01:50:29

Local clock offset: 0.126 ms

Remote clock offset: 2.397 ms

Below is generated by plot.py at 2018-08-02 04:11:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.87 Mbit/s

95th percentile per-packet one-way delay: 40.918 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 44.96 Mbit/s

95th percentile per-packet one-way delay: 40.922 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 46.92 Mbit/s

95th percentile per-packet one-way delay: 37.748 ms

Loss rate: 0.31%

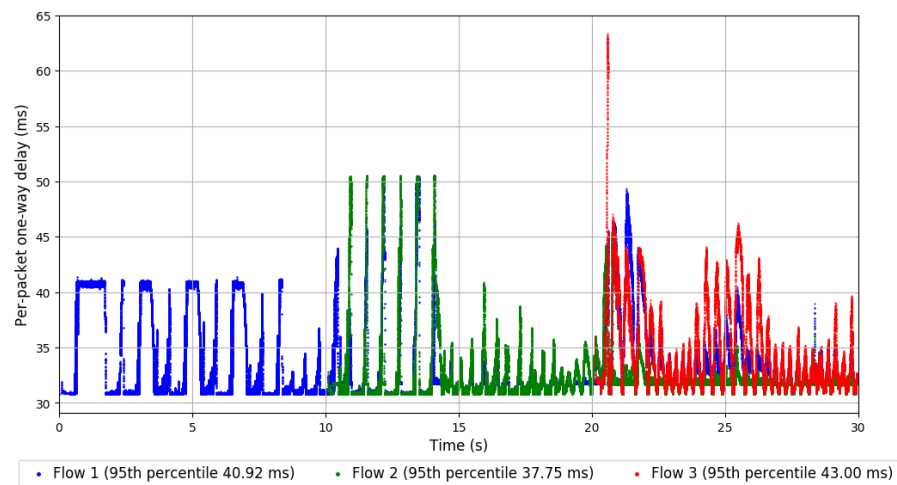
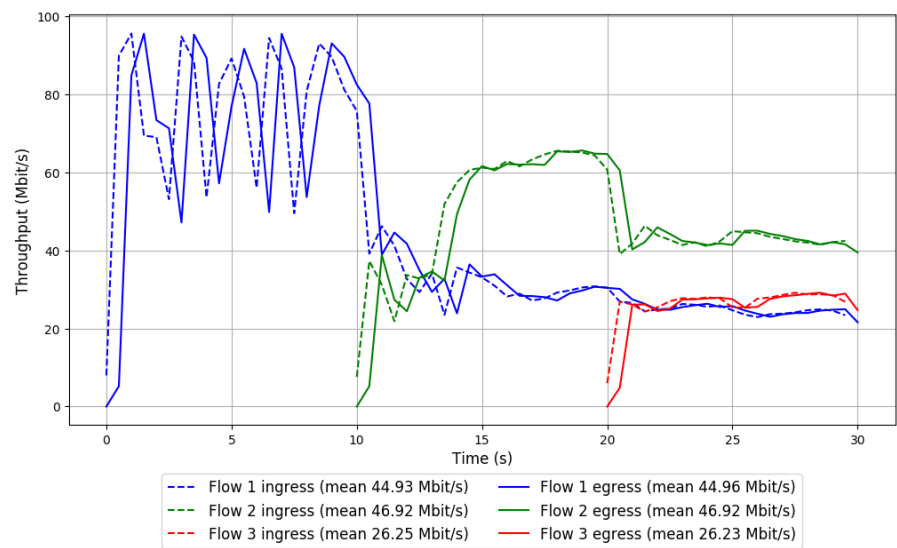
-- Flow 3:

Average throughput: 26.23 Mbit/s

95th percentile per-packet one-way delay: 43.004 ms

Loss rate: 0.73%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-08-02 02:12:59

End at: 2018-08-02 02:13:29

Local clock offset: -0.021 ms

Remote clock offset: 2.192 ms

Below is generated by plot.py at 2018-08-02 04:11:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.73 Mbit/s

95th percentile per-packet one-way delay: 45.909 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 52.14 Mbit/s

95th percentile per-packet one-way delay: 44.227 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 32.69 Mbit/s

95th percentile per-packet one-way delay: 50.037 ms

Loss rate: 0.28%

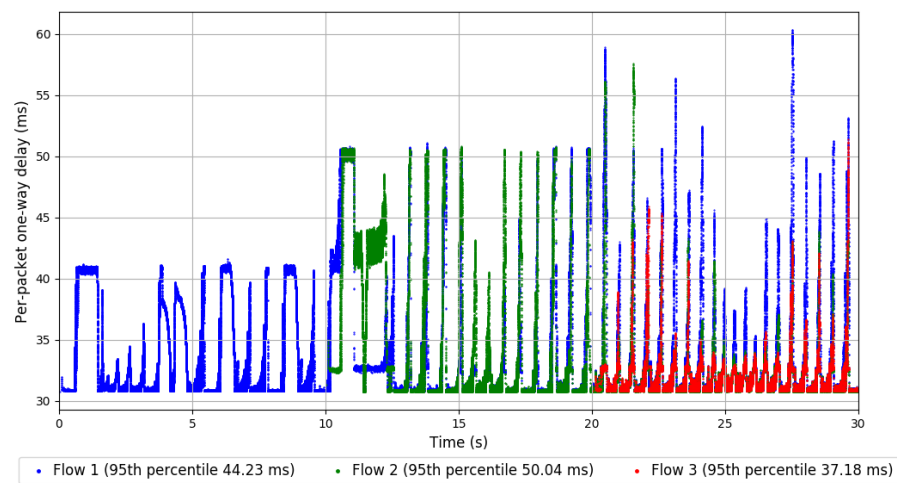
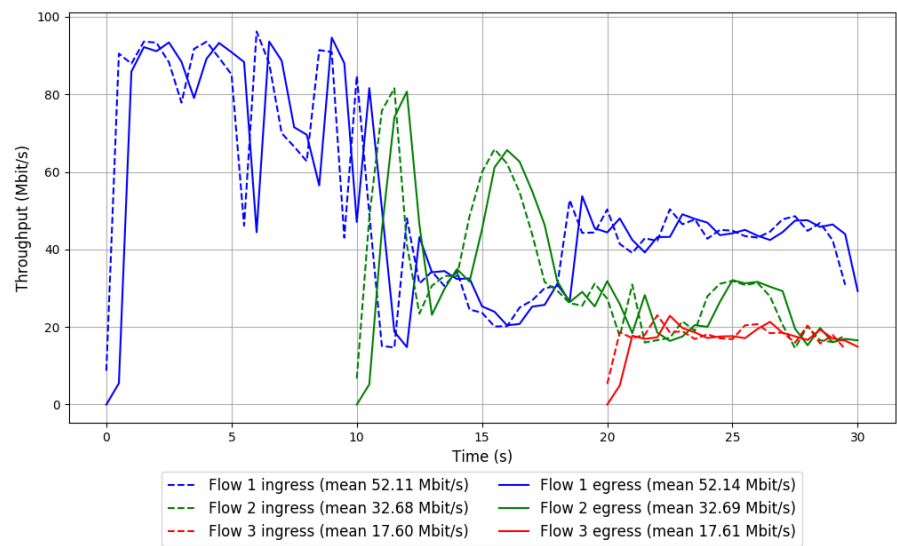
-- Flow 3:

Average throughput: 17.61 Mbit/s

95th percentile per-packet one-way delay: 37.179 ms

Loss rate: 0.58%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-08-02 02:36:12

End at: 2018-08-02 02:36:42

Local clock offset: -2.759 ms

Remote clock offset: 1.784 ms

Below is generated by plot.py at 2018-08-02 04:12:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.21 Mbit/s

95th percentile per-packet one-way delay: 40.727 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 52.22 Mbit/s

95th percentile per-packet one-way delay: 40.775 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 41.78 Mbit/s

95th percentile per-packet one-way delay: 39.896 ms

Loss rate: 0.25%

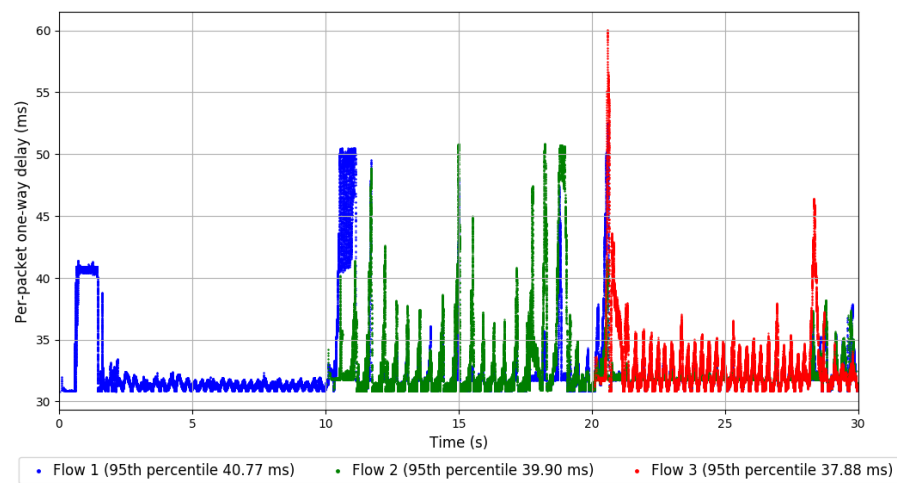
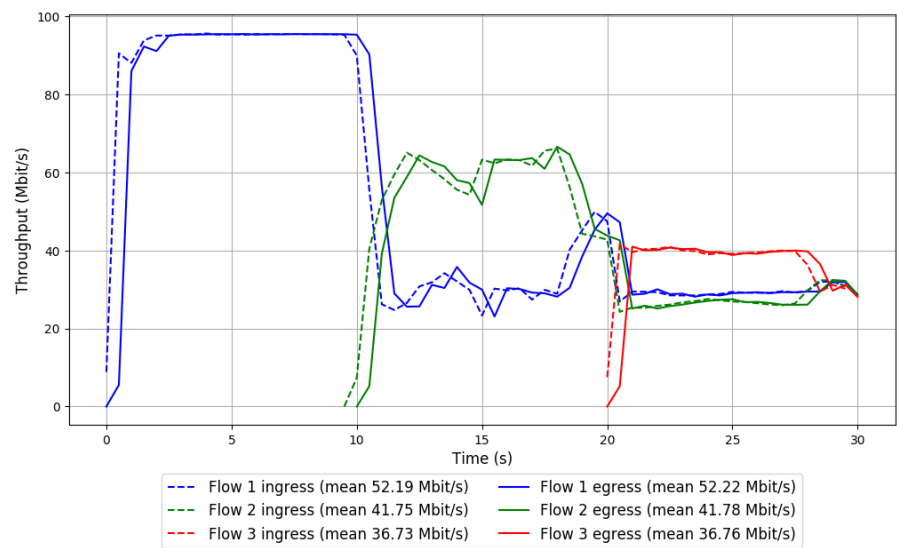
-- Flow 3:

Average throughput: 36.76 Mbit/s

95th percentile per-packet one-way delay: 37.883 ms

Loss rate: 0.56%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-08-02 02:59:10

End at: 2018-08-02 02:59:40

Local clock offset: -4.416 ms

Remote clock offset: 2.062 ms

Below is generated by plot.py at 2018-08-02 04:12:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.67 Mbit/s

95th percentile per-packet one-way delay: 43.266 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 45.61 Mbit/s

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

Loss rate: 0.13%

-- Flow 2:

Average throughput: 42.66 Mbit/s

95th percentile per-packet one-way delay: 41.485 ms

Loss rate: 0.25%

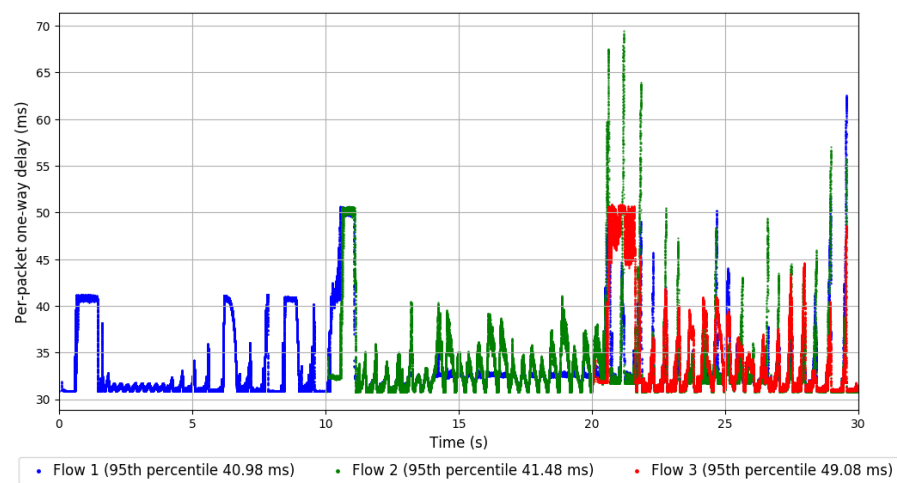
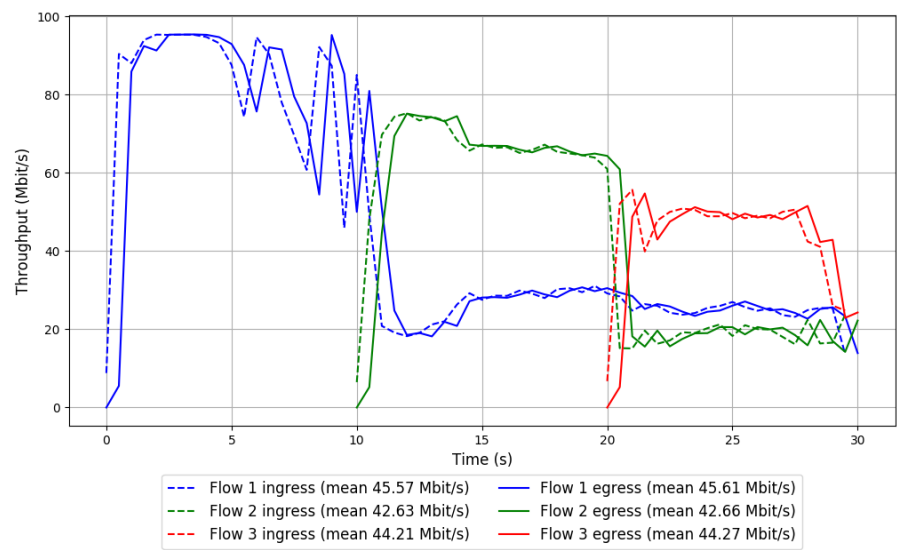
-- Flow 3:

Average throughput: 44.27 Mbit/s

95th percentile per-packet one-way delay: 49.080 ms

Loss rate: 0.52%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-08-02 03:22:06

End at: 2018-08-02 03:22:36

Local clock offset: -5.8 ms

Remote clock offset: 2.448 ms

Below is generated by plot.py at 2018-08-02 04:13:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.91 Mbit/s

95th percentile per-packet one-way delay: 43.316 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 51.70 Mbit/s

95th percentile per-packet one-way delay: 40.582 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 36.28 Mbit/s

95th percentile per-packet one-way delay: 47.959 ms

Loss rate: 0.28%

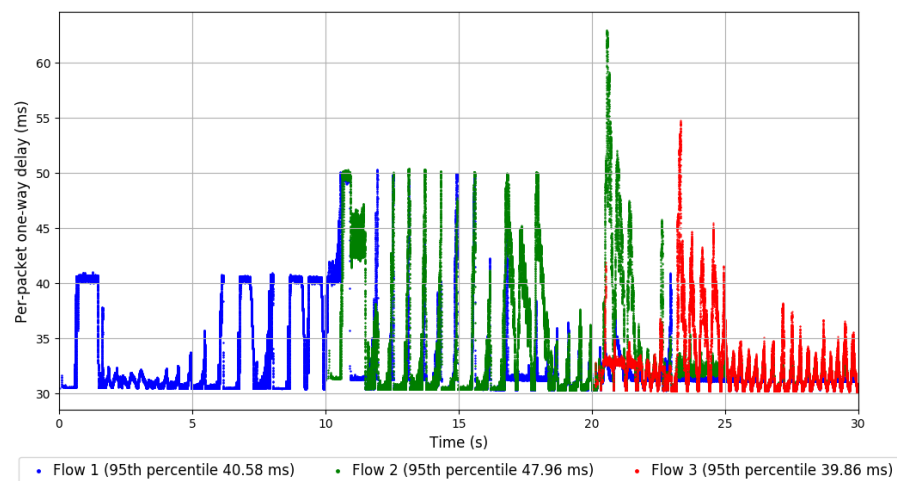
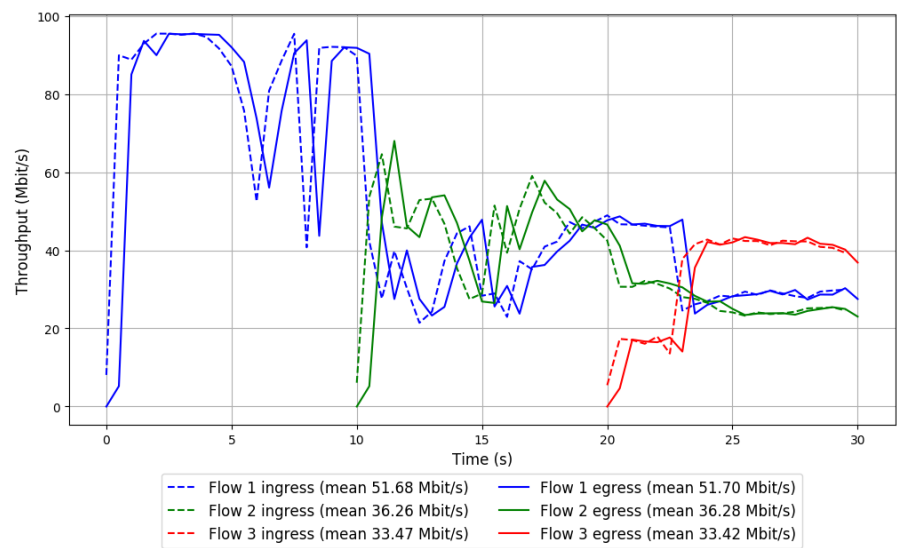
-- Flow 3:

Average throughput: 33.42 Mbit/s

95th percentile per-packet one-way delay: 39.859 ms

Loss rate: 0.79%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-08-02 03:45:09

End at: 2018-08-02 03:45:39

Local clock offset: 1.203 ms

Remote clock offset: 2.899 ms

Below is generated by plot.py at 2018-08-02 04:13:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.38 Mbit/s

95th percentile per-packet one-way delay: 46.078 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 49.03 Mbit/s

95th percentile per-packet one-way delay: 40.861 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 40.74 Mbit/s

95th percentile per-packet one-way delay: 50.096 ms

Loss rate: 0.32%

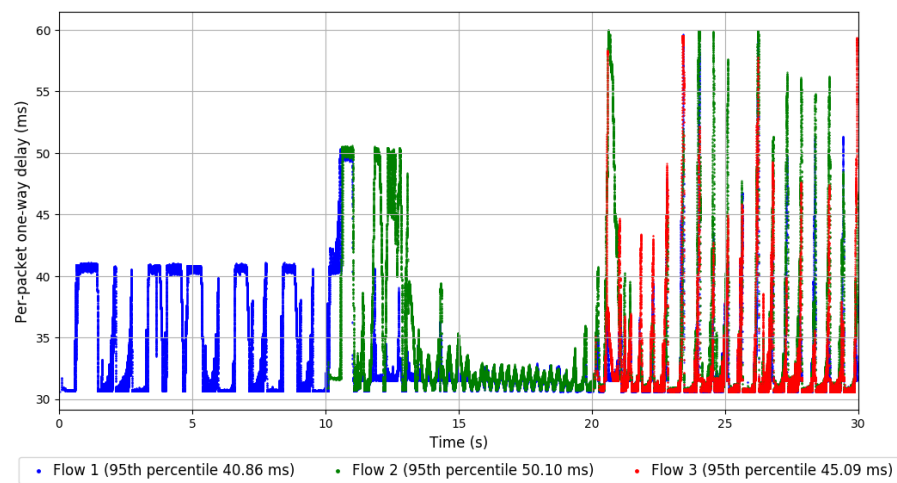
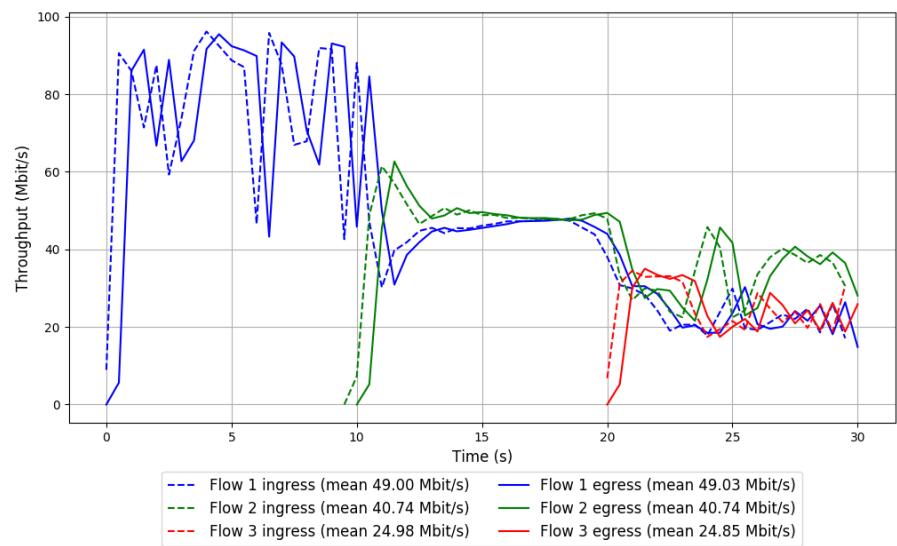
-- Flow 3:

Average throughput: 24.85 Mbit/s

95th percentile per-packet one-way delay: 45.095 ms

Loss rate: 1.18%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-08-02 00:35:36

End at: 2018-08-02 00:36:06

Local clock offset: 0.101 ms

Remote clock offset: 1.566 ms

Below is generated by plot.py at 2018-08-02 04:13:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.08 Mbit/s

95th percentile per-packet one-way delay: 38.784 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 46.52 Mbit/s

95th percentile per-packet one-way delay: 37.091 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 47.33 Mbit/s

95th percentile per-packet one-way delay: 38.832 ms

Loss rate: 0.34%

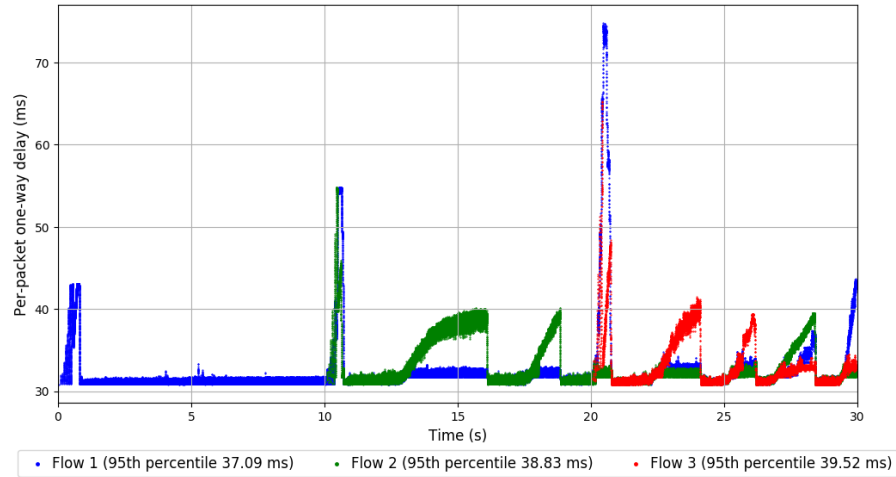
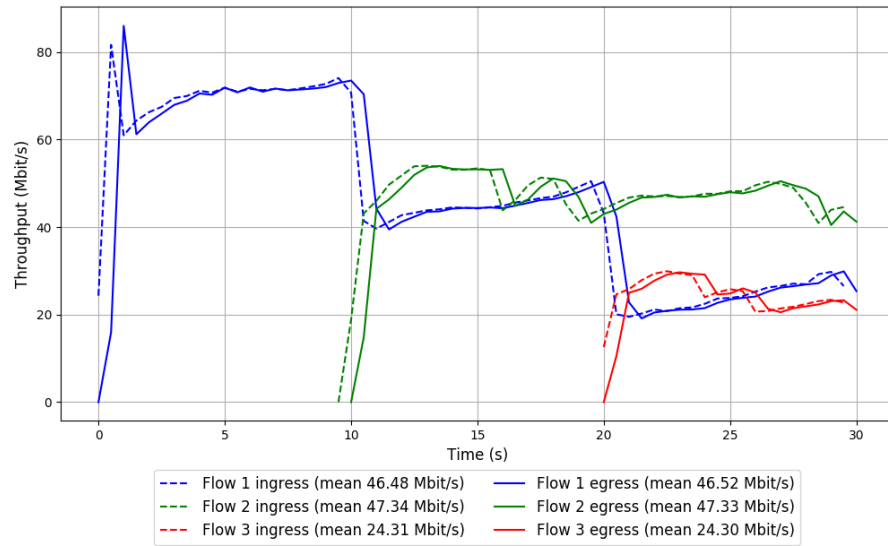
-- Flow 3:

Average throughput: 24.30 Mbit/s

95th percentile per-packet one-way delay: 39.519 ms

Loss rate: 0.67%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-08-02 00:58:27

End at: 2018-08-02 00:58:57

Local clock offset: 0.255 ms

Remote clock offset: 1.367 ms

Below is generated by plot.py at 2018-08-02 04:13:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.42 Mbit/s

95th percentile per-packet one-way delay: 38.673 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 59.92 Mbit/s

95th percentile per-packet one-way delay: 37.723 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 31.80 Mbit/s

95th percentile per-packet one-way delay: 38.224 ms

Loss rate: 0.35%

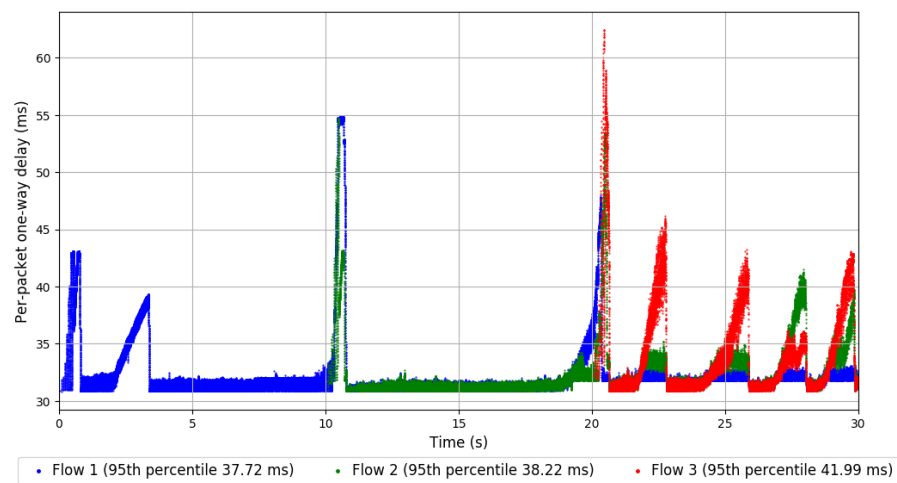
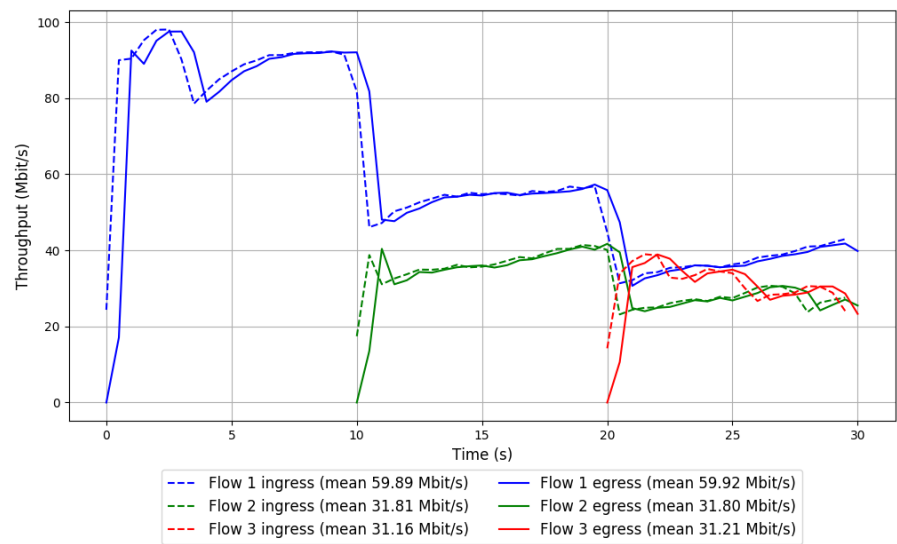
-- Flow 3:

Average throughput: 31.21 Mbit/s

95th percentile per-packet one-way delay: 41.989 ms

Loss rate: 0.49%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-08-02 01:21:35

End at: 2018-08-02 01:22:05

Local clock offset: 0.242 ms

Remote clock offset: 2.298 ms

Below is generated by plot.py at 2018-08-02 04:13:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.91 Mbit/s

95th percentile per-packet one-way delay: 38.892 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 46.06 Mbit/s

95th percentile per-packet one-way delay: 37.777 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 47.62 Mbit/s

95th percentile per-packet one-way delay: 39.076 ms

Loss rate: 0.32%

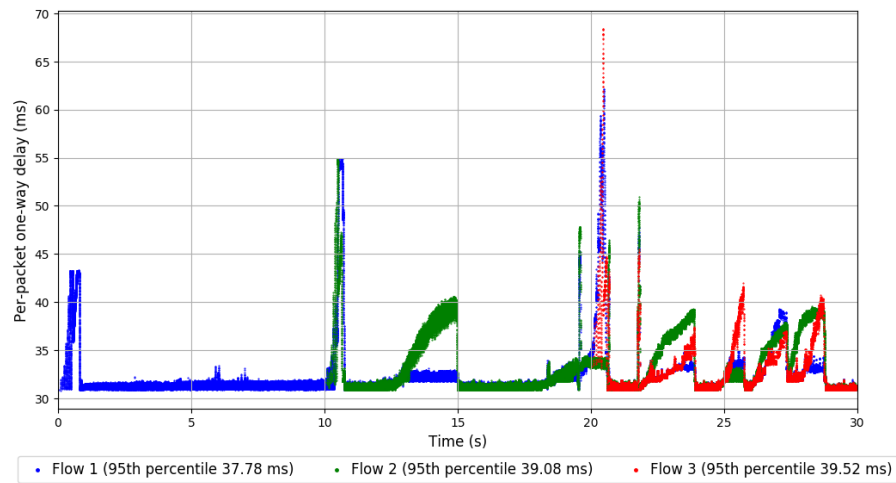
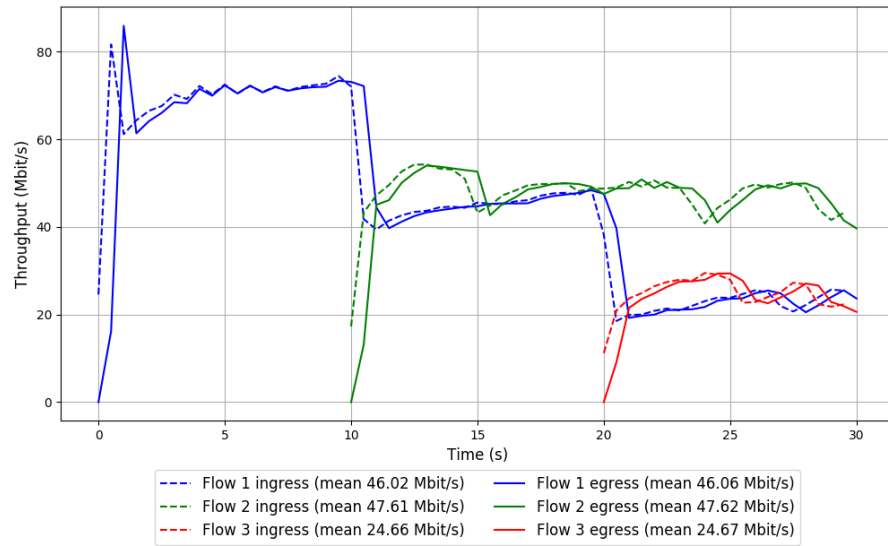
-- Flow 3:

Average throughput: 24.67 Mbit/s

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

Loss rate: 0.63%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-08-02 01:44:35

End at: 2018-08-02 01:45:05

Local clock offset: 0.173 ms

Remote clock offset: 2.426 ms

Below is generated by plot.py at 2018-08-02 04:13:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.45 Mbit/s

95th percentile per-packet one-way delay: 39.402 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 45.81 Mbit/s

95th percentile per-packet one-way delay: 37.722 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 31.25 Mbit/s

95th percentile per-packet one-way delay: 41.064 ms

Loss rate: 0.29%

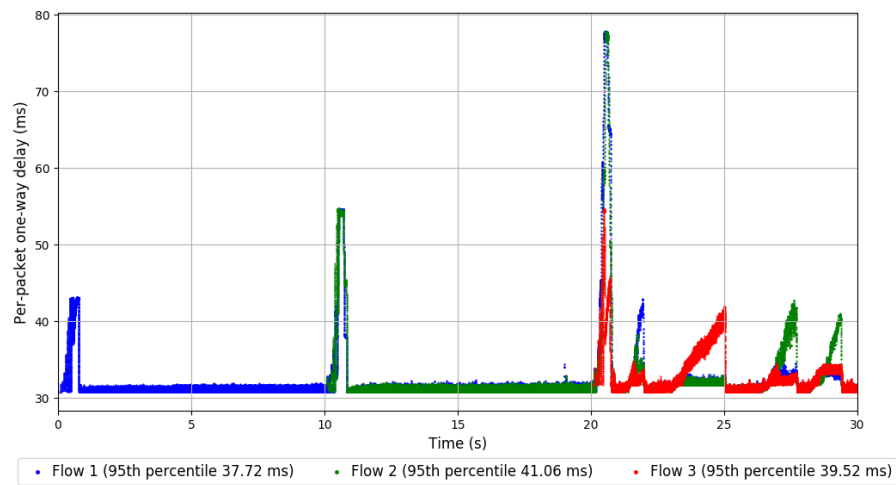
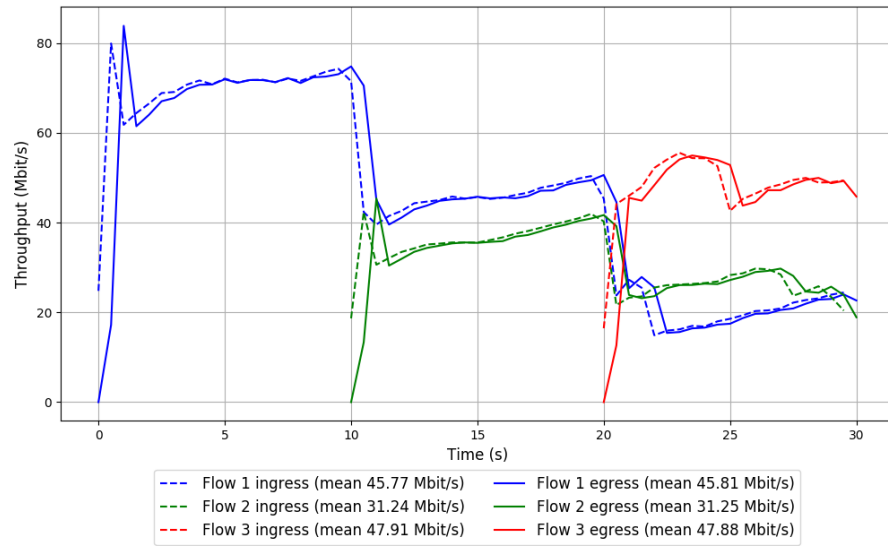
-- Flow 3:

Average throughput: 47.88 Mbit/s

95th percentile per-packet one-way delay: 39.515 ms

Loss rate: 0.71%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-08-02 02:07:32

End at: 2018-08-02 02:08:02

Local clock offset: 0.038 ms

Remote clock offset: 2.358 ms

Below is generated by plot.py at 2018-08-02 04:13:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.89 Mbit/s

95th percentile per-packet one-way delay: 38.184 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 49.32 Mbit/s

95th percentile per-packet one-way delay: 38.301 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 37.20 Mbit/s

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

Loss rate: 0.33%

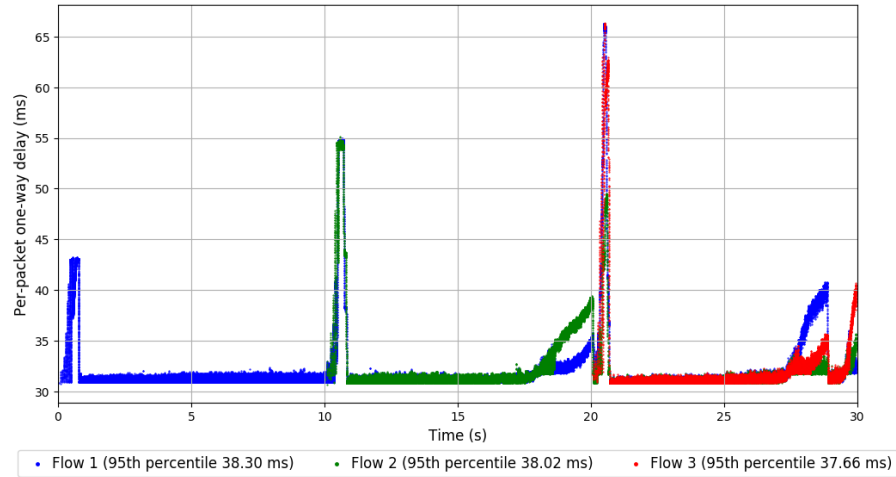
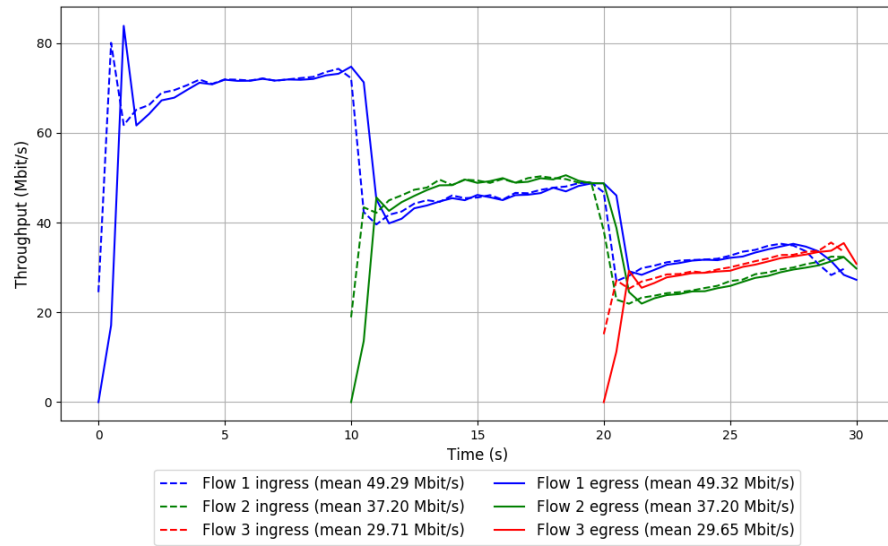
-- Flow 3:

Average throughput: 29.65 Mbit/s

95th percentile per-packet one-way delay: 37.656 ms

Loss rate: 0.85%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-08-02 02:30:47

End at: 2018-08-02 02:31:18

Local clock offset: -2.091 ms

Remote clock offset: 1.785 ms

Below is generated by plot.py at 2018-08-02 04:13:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.87 Mbit/s

95th percentile per-packet one-way delay: 38.683 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 53.92 Mbit/s

95th percentile per-packet one-way delay: 38.101 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 36.06 Mbit/s

95th percentile per-packet one-way delay: 38.972 ms

Loss rate: 0.28%

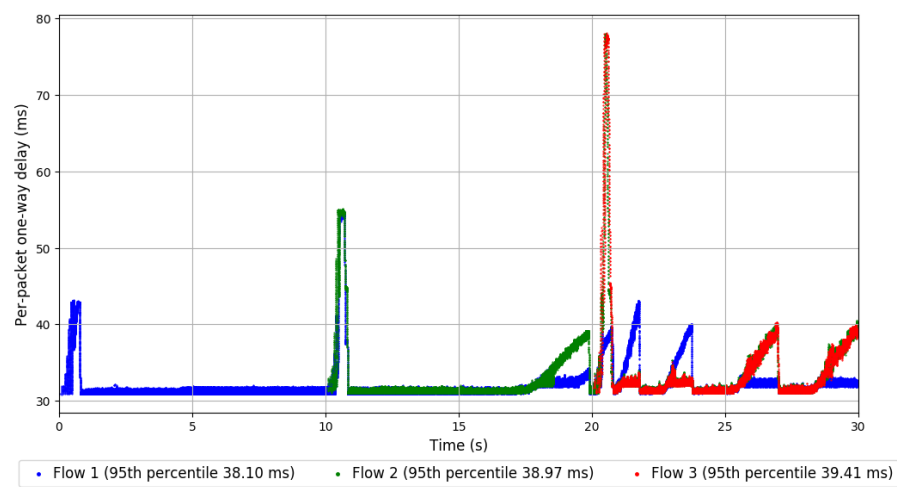
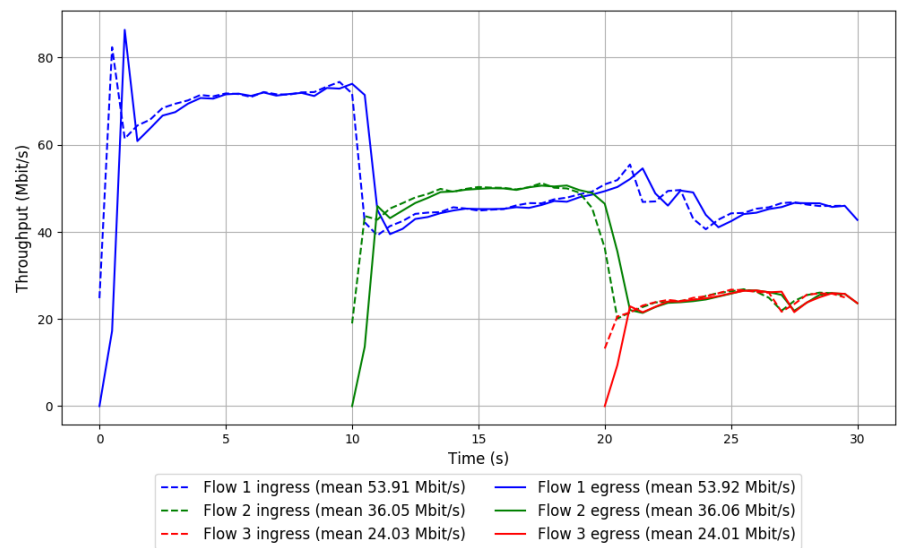
-- Flow 3:

Average throughput: 24.01 Mbit/s

95th percentile per-packet one-way delay: 39.414 ms

Loss rate: 0.71%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-08-02 02:53:50

End at: 2018-08-02 02:54:20

Local clock offset: -4.089 ms

Remote clock offset: 1.976 ms

Below is generated by plot.py at 2018-08-02 04:13:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.78 Mbit/s

95th percentile per-packet one-way delay: 37.922 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 49.04 Mbit/s

95th percentile per-packet one-way delay: 37.867 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 37.36 Mbit/s

95th percentile per-packet one-way delay: 38.110 ms

Loss rate: 0.39%

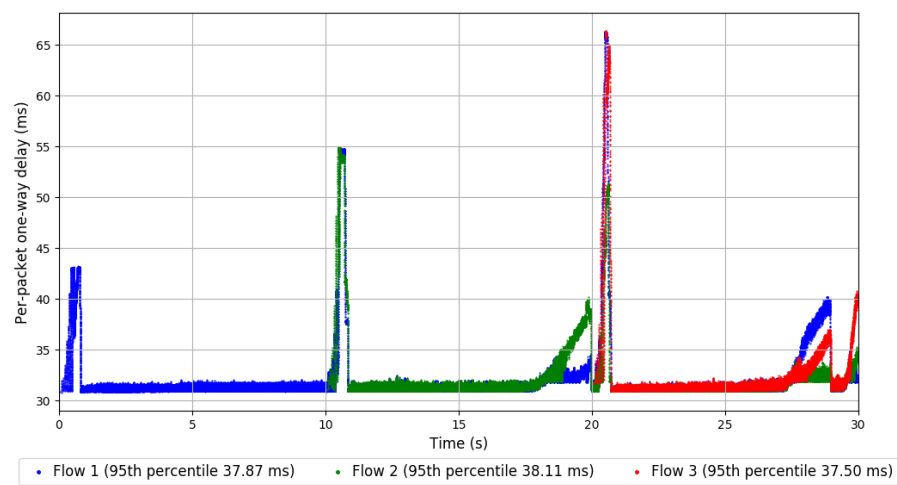
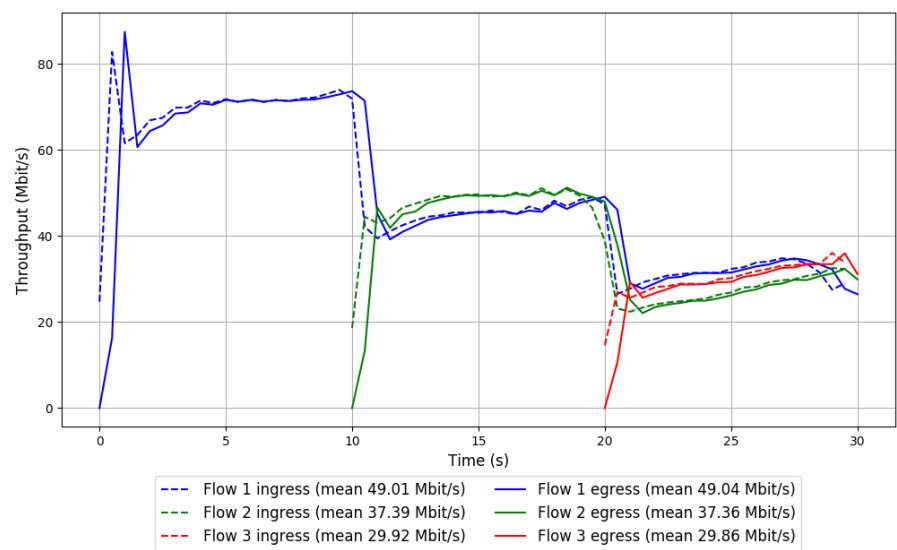
-- Flow 3:

Average throughput: 29.86 Mbit/s

95th percentile per-packet one-way delay: 37.499 ms

Loss rate: 0.85%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-08-02 03:16:39

End at: 2018-08-02 03:17:09

Local clock offset: -5.468 ms

Remote clock offset: 2.195 ms

Below is generated by plot.py at 2018-08-02 04:13:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.93 Mbit/s

95th percentile per-packet one-way delay: 38.267 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 46.51 Mbit/s

95th percentile per-packet one-way delay: 37.056 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 38.24 Mbit/s

95th percentile per-packet one-way delay: 39.271 ms

Loss rate: 0.27%

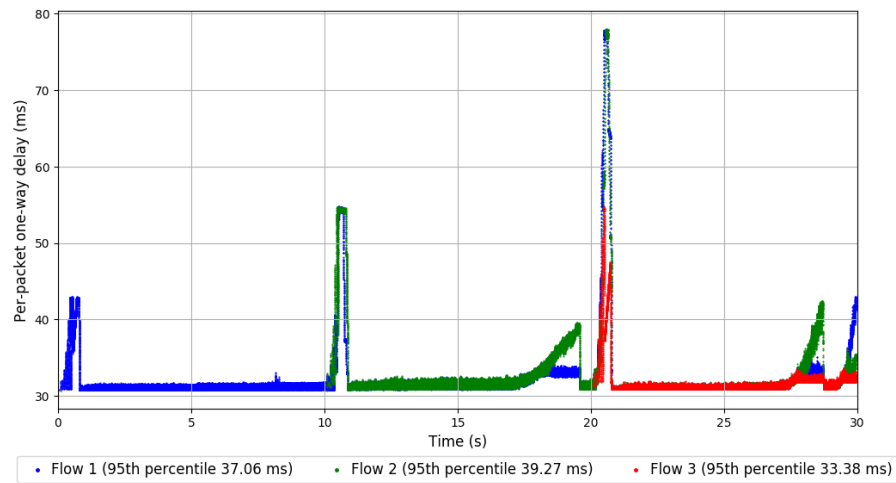
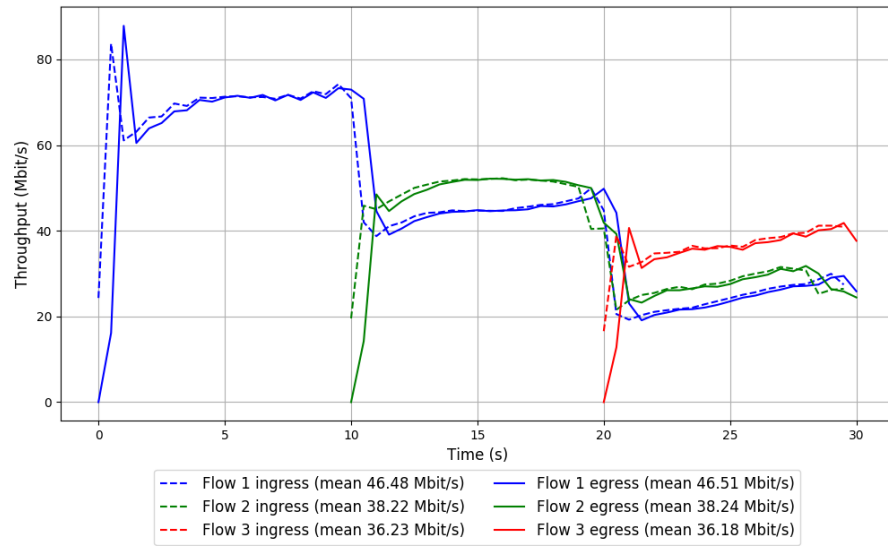
-- Flow 3:

Average throughput: 36.18 Mbit/s

95th percentile per-packet one-way delay: 33.381 ms

Loss rate: 0.79%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-08-02 03:39:48

End at: 2018-08-02 03:40:18

Local clock offset: 0.43 ms

Remote clock offset: 2.922 ms

Below is generated by plot.py at 2018-08-02 04:13:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.76 Mbit/s

95th percentile per-packet one-way delay: 38.009 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 48.96 Mbit/s

95th percentile per-packet one-way delay: 37.879 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 37.47 Mbit/s

95th percentile per-packet one-way delay: 38.430 ms

Loss rate: 0.32%

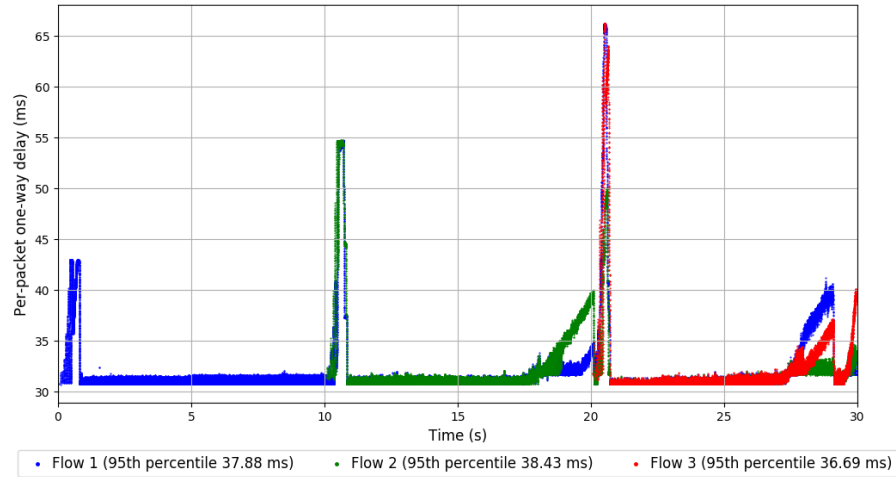
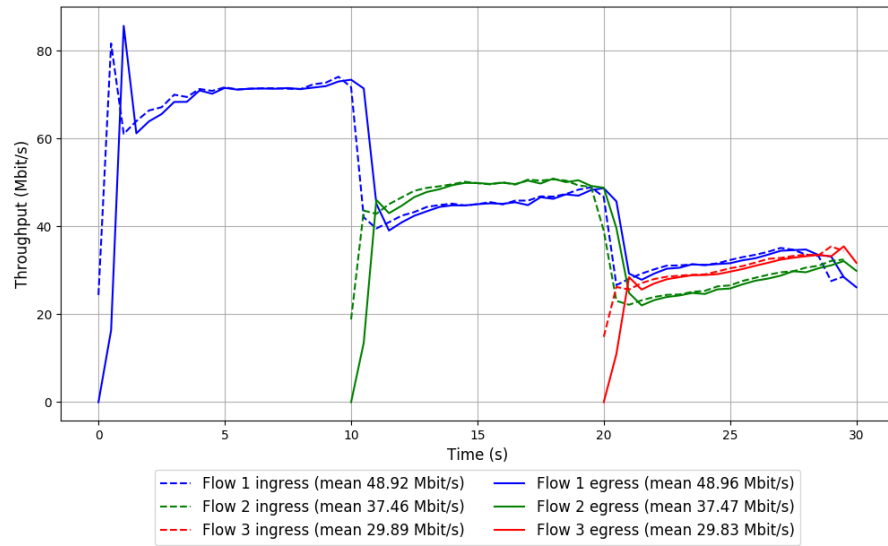
-- Flow 3:

Average throughput: 29.83 Mbit/s

95th percentile per-packet one-way delay: 36.685 ms

Loss rate: 0.86%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-08-02 04:02:51

End at: 2018-08-02 04:03:21

Local clock offset: 1.494 ms

Remote clock offset: 1.6 ms

Below is generated by plot.py at 2018-08-02 04:13:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.68 Mbit/s

95th percentile per-packet one-way delay: 38.462 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 58.89 Mbit/s

95th percentile per-packet one-way delay: 38.711 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 33.08 Mbit/s

95th percentile per-packet one-way delay: 36.560 ms

Loss rate: 0.38%

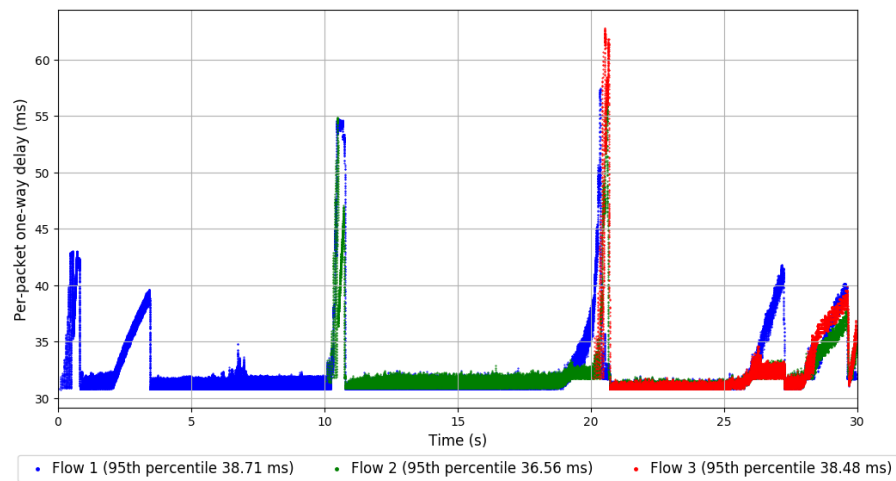
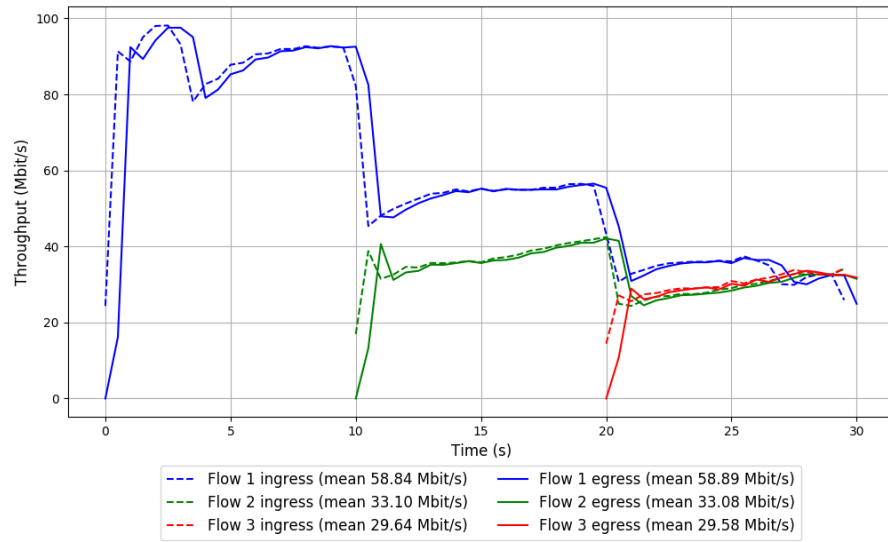
-- Flow 3:

Average throughput: 29.58 Mbit/s

95th percentile per-packet one-way delay: 38.477 ms

Loss rate: 0.86%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-08-02 00:27:36

End at: 2018-08-02 00:28:06

Local clock offset: -0.128 ms

Remote clock offset: 2.38 ms

Below is generated by plot.py at 2018-08-02 04:14:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.71 Mbit/s

95th percentile per-packet one-way delay: 66.371 ms

Loss rate: 2.64%

-- Flow 1:

Average throughput: 56.83 Mbit/s

95th percentile per-packet one-way delay: 66.074 ms

Loss rate: 1.87%

-- Flow 2:

Average throughput: 36.81 Mbit/s

95th percentile per-packet one-way delay: 67.351 ms

Loss rate: 3.87%

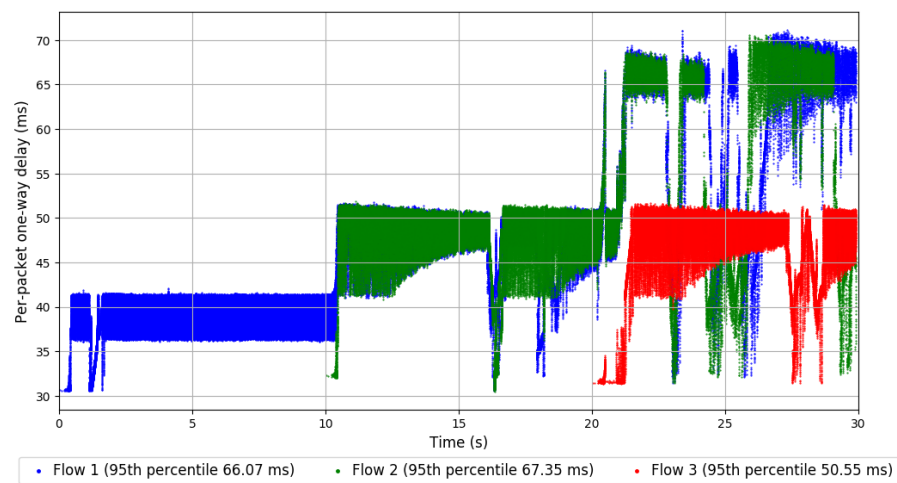
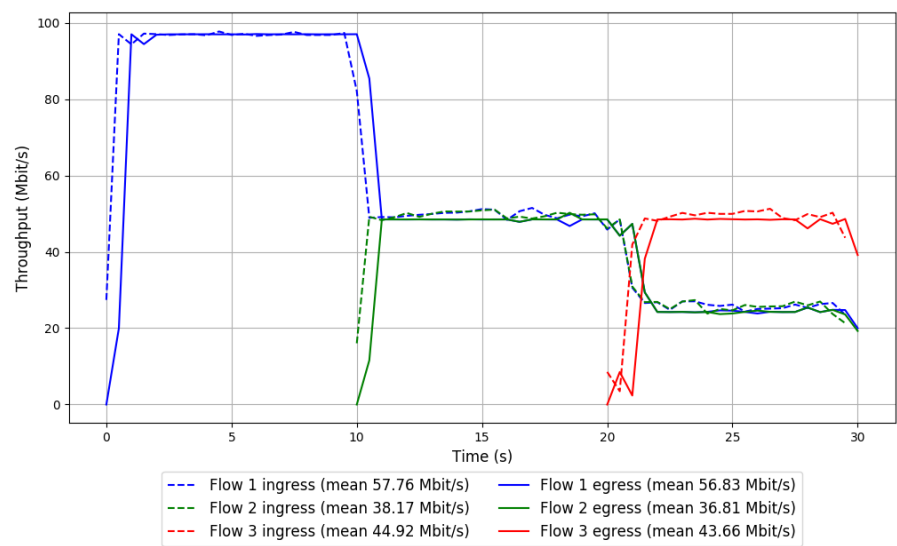
-- Flow 3:

Average throughput: 43.66 Mbit/s

95th percentile per-packet one-way delay: 50.551 ms

Loss rate: 3.52%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-08-02 00:50:26

End at: 2018-08-02 00:50:56

Local clock offset: 0.135 ms

Remote clock offset: 1.272 ms

Below is generated by plot.py at 2018-08-02 04:14:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.69 Mbit/s

95th percentile per-packet one-way delay: 67.093 ms

Loss rate: 2.21%

-- Flow 1:

Average throughput: 57.33 Mbit/s

95th percentile per-packet one-way delay: 66.645 ms

Loss rate: 1.49%

-- Flow 2:

Average throughput: 34.52 Mbit/s

95th percentile per-packet one-way delay: 68.305 ms

Loss rate: 3.44%

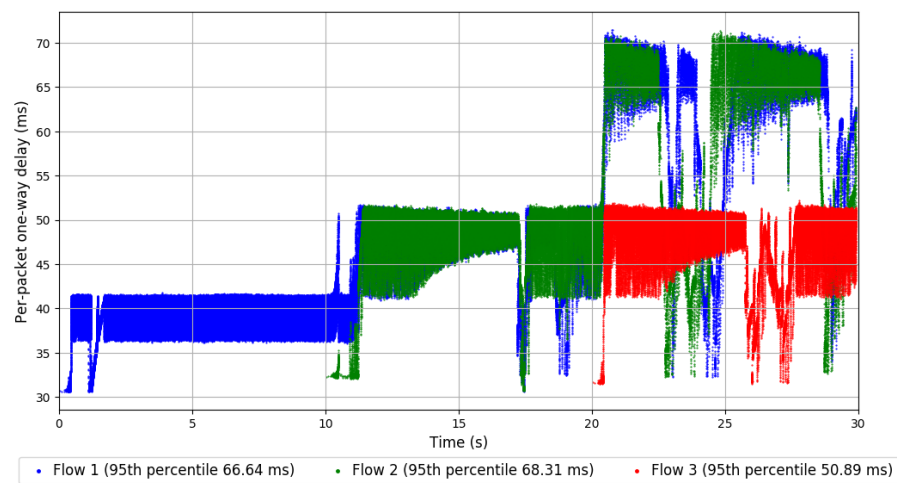
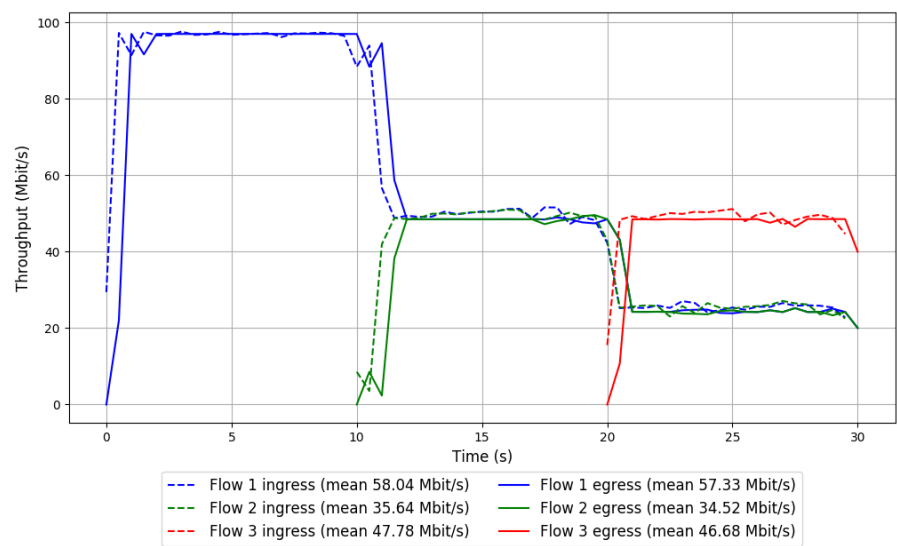
-- Flow 3:

Average throughput: 46.68 Mbit/s

95th percentile per-packet one-way delay: 50.886 ms

Loss rate: 3.00%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-08-02 01:13:23

End at: 2018-08-02 01:13:53

Local clock offset: 0.164 ms

Remote clock offset: 2.038 ms

Below is generated by plot.py at 2018-08-02 04:14:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.72 Mbit/s

95th percentile per-packet one-way delay: 67.302 ms

Loss rate: 2.50%

-- Flow 1:

Average throughput: 64.00 Mbit/s

95th percentile per-packet one-way delay: 50.505 ms

Loss rate: 1.70%

-- Flow 2:

Average throughput: 36.02 Mbit/s

95th percentile per-packet one-way delay: 68.200 ms

Loss rate: 3.50%

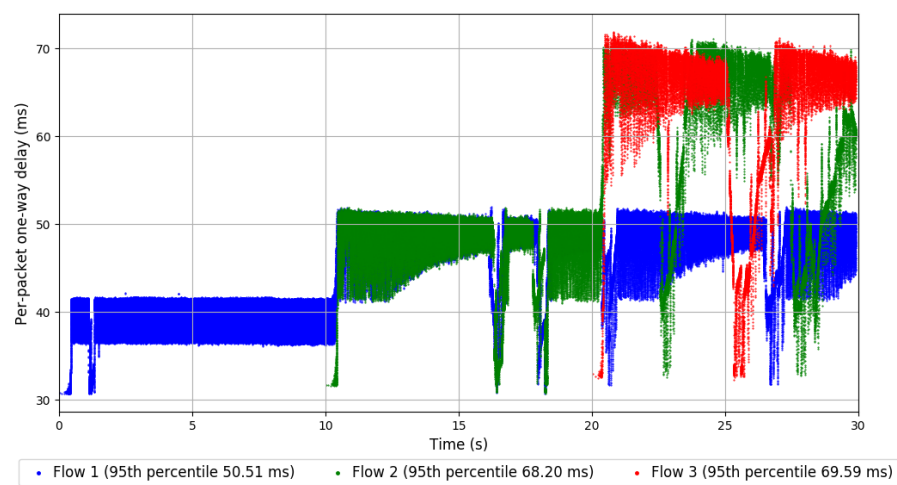
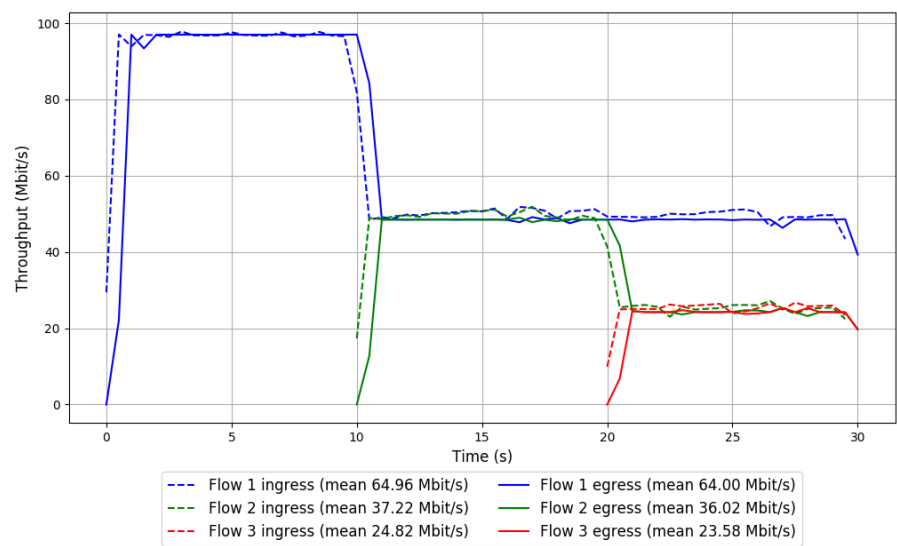
-- Flow 3:

Average throughput: 23.58 Mbit/s

95th percentile per-packet one-way delay: 69.586 ms

Loss rate: 5.79%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-08-02 01:36:29

End at: 2018-08-02 01:36:59

Local clock offset: 0.24 ms

Remote clock offset: 2.647 ms

Below is generated by plot.py at 2018-08-02 04:14:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.75 Mbit/s

95th percentile per-packet one-way delay: 59.356 ms

Loss rate: 2.40%

-- Flow 1:

Average throughput: 59.10 Mbit/s

95th percentile per-packet one-way delay: 58.335 ms

Loss rate: 1.66%

-- Flow 2:

Average throughput: 40.36 Mbit/s

95th percentile per-packet one-way delay: 59.296 ms

Loss rate: 3.39%

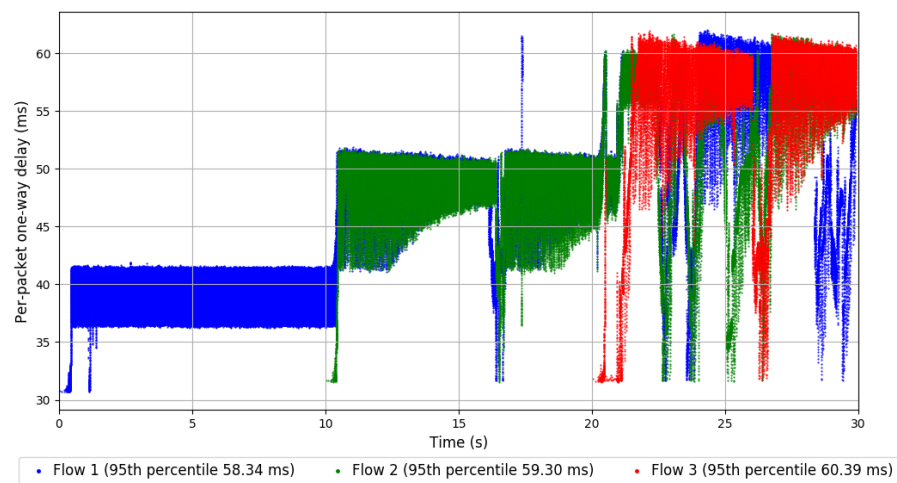
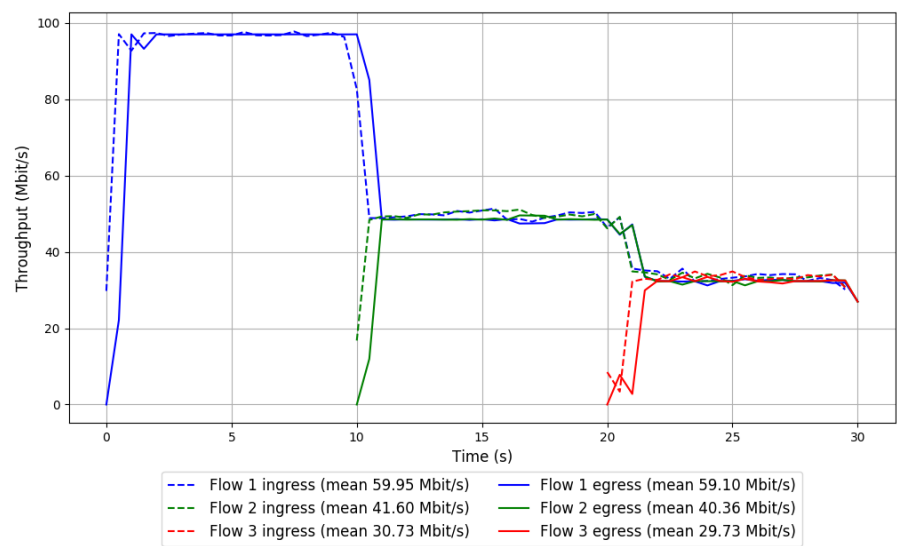
-- Flow 3:

Average throughput: 29.73 Mbit/s

95th percentile per-packet one-way delay: 60.386 ms

Loss rate: 4.03%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-08-02 01:59:30

End at: 2018-08-02 02:00:00

Local clock offset: 0.098 ms

Remote clock offset: 2.306 ms

Below is generated by plot.py at 2018-08-02 04:14:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.70 Mbit/s

95th percentile per-packet one-way delay: 67.613 ms

Loss rate: 2.39%

-- Flow 1:

Average throughput: 56.34 Mbit/s

95th percentile per-packet one-way delay: 66.896 ms

Loss rate: 1.47%

-- Flow 2:

Average throughput: 47.51 Mbit/s

95th percentile per-packet one-way delay: 50.740 ms

Loss rate: 3.32%

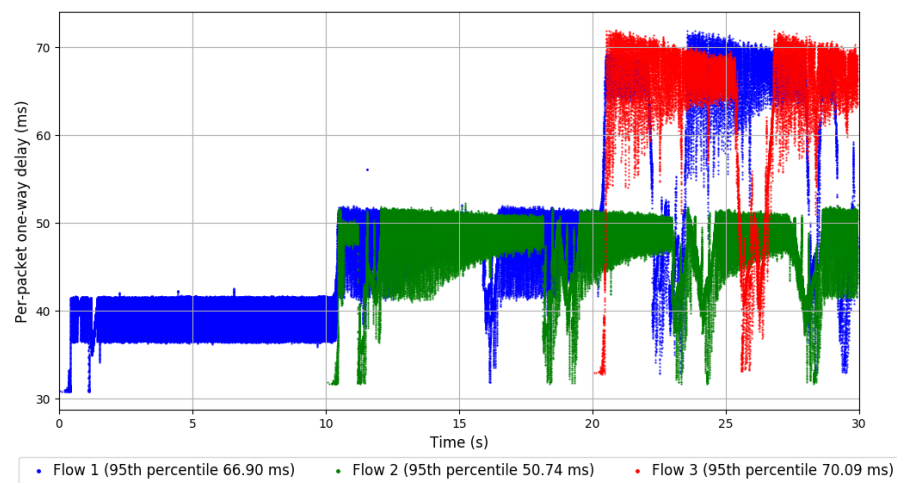
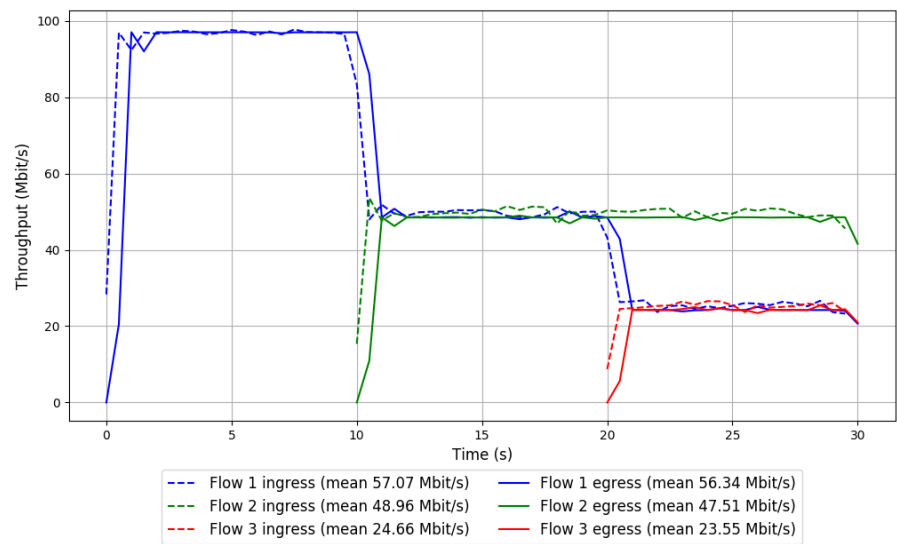
-- Flow 3:

Average throughput: 23.55 Mbit/s

95th percentile per-packet one-way delay: 70.091 ms

Loss rate: 5.13%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-08-02 02:22:36

End at: 2018-08-02 02:23:06

Local clock offset: -0.271 ms

Remote clock offset: 1.918 ms

Below is generated by plot.py at 2018-08-02 04:14:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.76 Mbit/s

95th percentile per-packet one-way delay: 67.399 ms

Loss rate: 2.69%

-- Flow 1:

Average throughput: 56.42 Mbit/s

95th percentile per-packet one-way delay: 66.813 ms

Loss rate: 2.01%

-- Flow 2:

Average throughput: 47.51 Mbit/s

95th percentile per-packet one-way delay: 51.063 ms

Loss rate: 3.18%

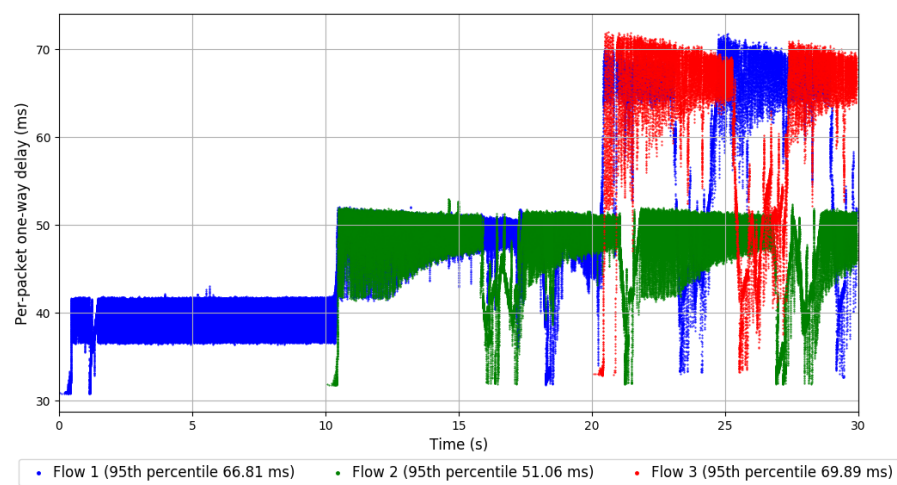
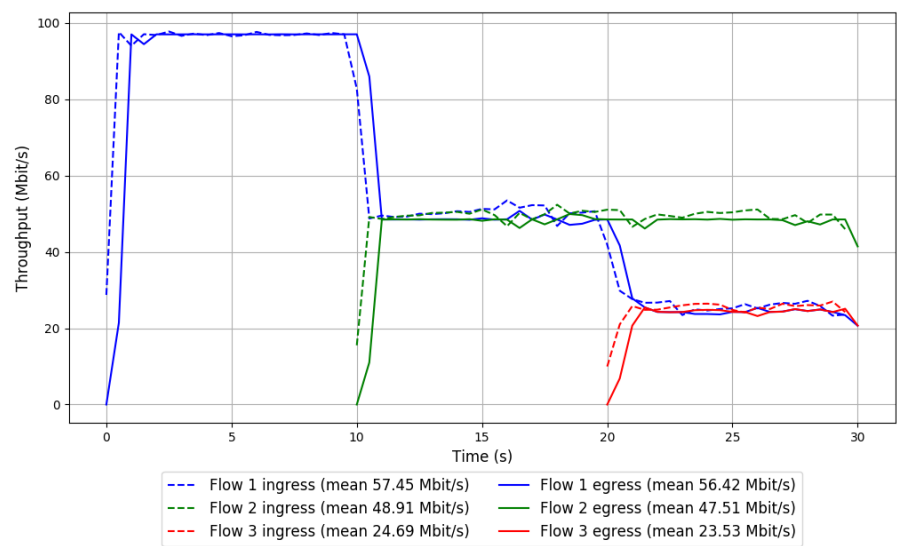
-- Flow 3:

Average throughput: 23.53 Mbit/s

95th percentile per-packet one-way delay: 69.888 ms

Loss rate: 5.47%

Run 6: Report of FillP — Data Link

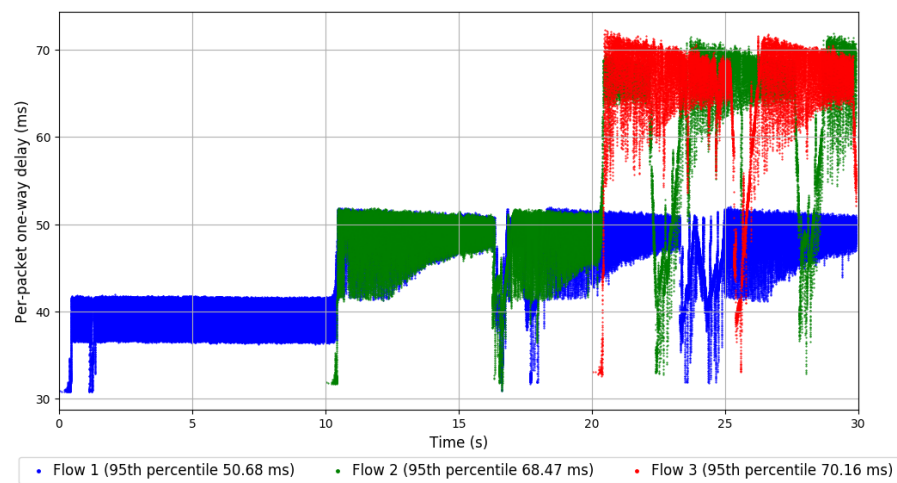
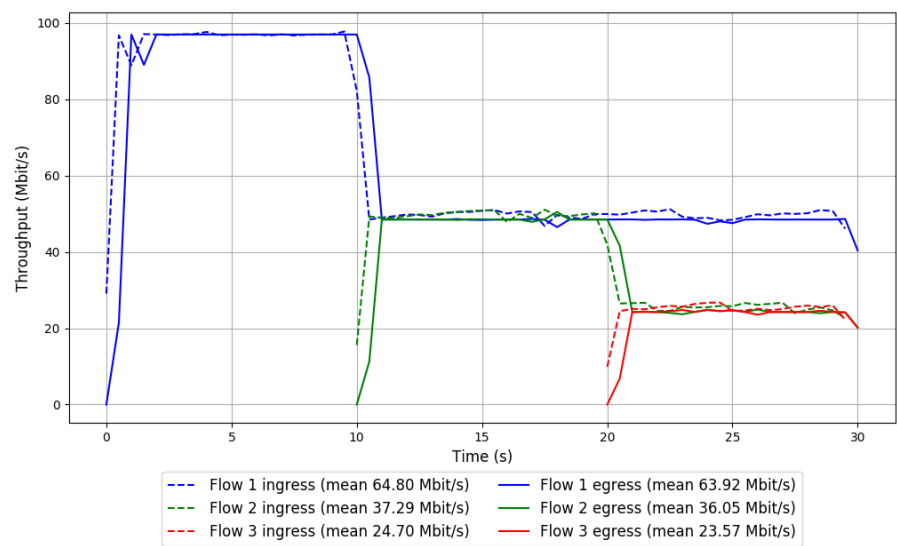


Run 7: Statistics of FillP

Start at: 2018-08-02 02:45:49
End at: 2018-08-02 02:46:19
Local clock offset: -3.585 ms
Remote clock offset: 1.733 ms

Below is generated by plot.py at 2018-08-02 04:15:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.67 Mbit/s
95th percentile per-packet one-way delay: 67.786 ms
Loss rate: 2.43%
-- Flow 1:
Average throughput: 63.92 Mbit/s
95th percentile per-packet one-way delay: 50.682 ms
Loss rate: 1.60%
-- Flow 2:
Average throughput: 36.05 Mbit/s
95th percentile per-packet one-way delay: 68.465 ms
Loss rate: 3.69%
-- Flow 3:
Average throughput: 23.57 Mbit/s
95th percentile per-packet one-way delay: 70.158 ms
Loss rate: 5.21%

Run 7: Report of FillP — Data Link

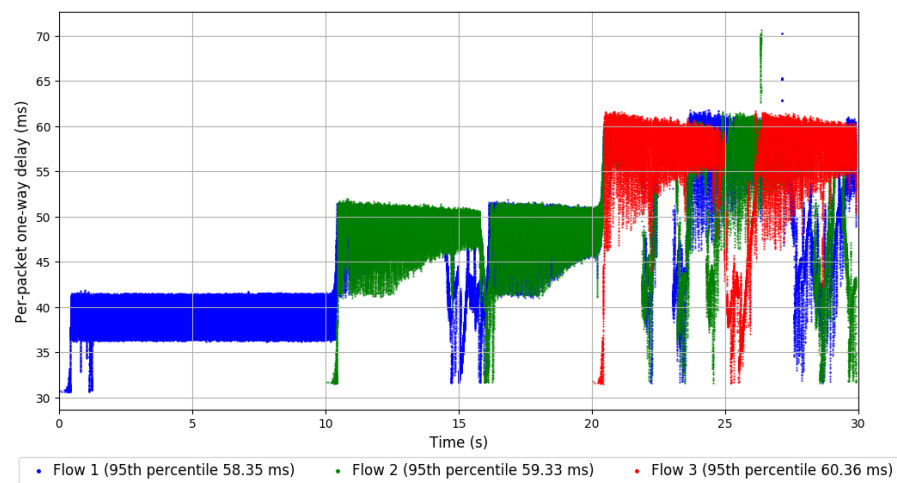
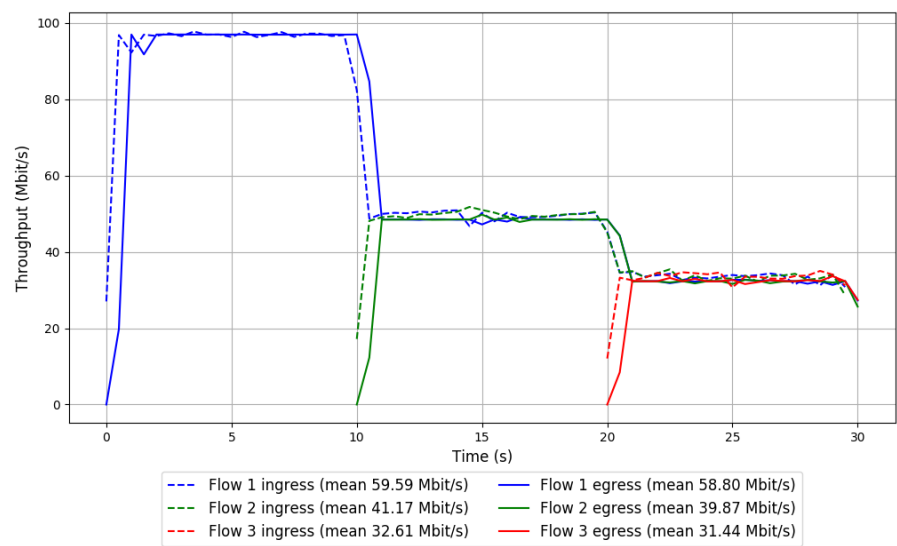


Run 8: Statistics of FillP

Start at: 2018-08-02 03:08:40
End at: 2018-08-02 03:09:10
Local clock offset: -5.022 ms
Remote clock offset: 2.101 ms

Below is generated by plot.py at 2018-08-02 04:15:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.69 Mbit/s
95th percentile per-packet one-way delay: 59.343 ms
Loss rate: 2.42%
-- Flow 1:
Average throughput: 58.80 Mbit/s
95th percentile per-packet one-way delay: 58.352 ms
Loss rate: 1.58%
-- Flow 2:
Average throughput: 39.87 Mbit/s
95th percentile per-packet one-way delay: 59.330 ms
Loss rate: 3.47%
-- Flow 3:
Average throughput: 31.44 Mbit/s
95th percentile per-packet one-way delay: 60.358 ms
Loss rate: 4.34%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-08-02 03:31:47

End at: 2018-08-02 03:32:17

Local clock offset: -1.256 ms

Remote clock offset: 2.772 ms

Below is generated by plot.py at 2018-08-02 04:15:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.15 Mbit/s

95th percentile per-packet one-way delay: 67.034 ms

Loss rate: 2.80%

-- Flow 1:

Average throughput: 61.45 Mbit/s

95th percentile per-packet one-way delay: 50.344 ms

Loss rate: 1.76%

-- Flow 2:

Average throughput: 35.95 Mbit/s

95th percentile per-packet one-way delay: 67.348 ms

Loss rate: 4.65%

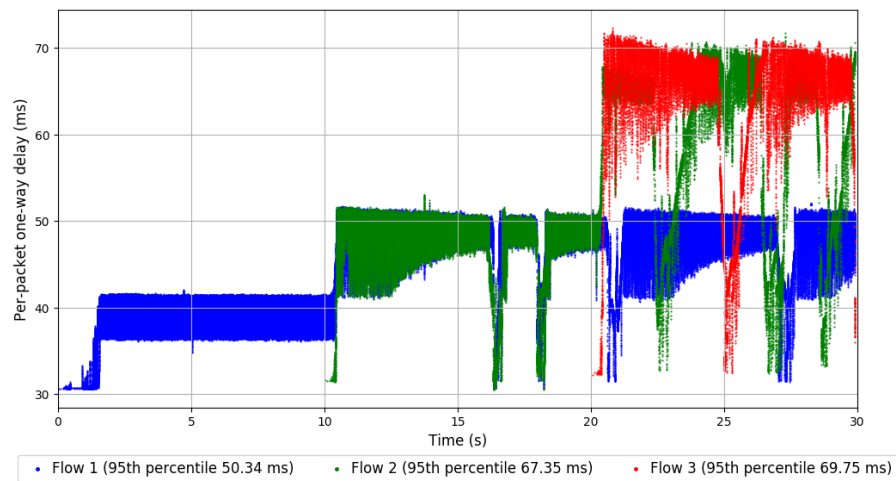
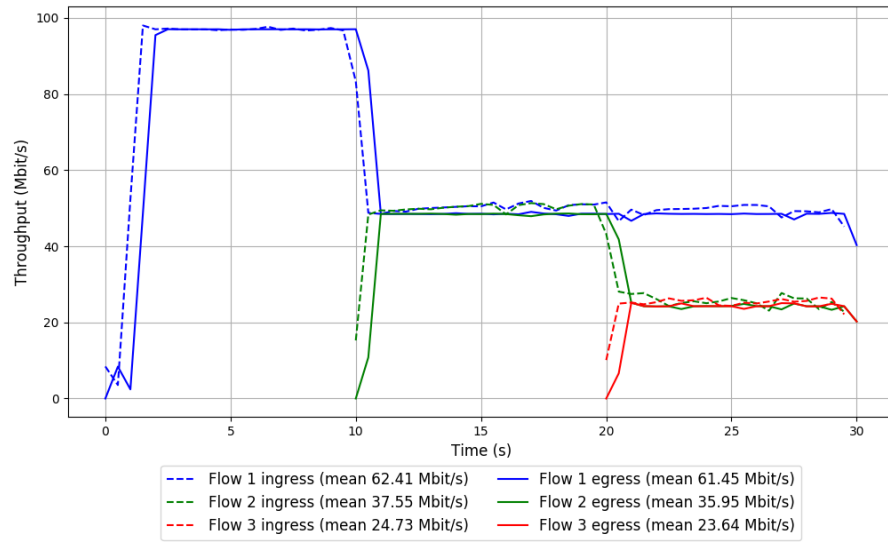
-- Flow 3:

Average throughput: 23.64 Mbit/s

95th percentile per-packet one-way delay: 69.747 ms

Loss rate: 5.06%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-08-02 03:54:50

End at: 2018-08-02 03:55:20

Local clock offset: 1.892 ms

Remote clock offset: 2.36 ms

Below is generated by plot.py at 2018-08-02 04:15:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.69 Mbit/s

95th percentile per-packet one-way delay: 67.019 ms

Loss rate: 2.60%

-- Flow 1:

Average throughput: 56.30 Mbit/s

95th percentile per-packet one-way delay: 66.437 ms

Loss rate: 1.73%

-- Flow 2:

Average throughput: 36.00 Mbit/s

95th percentile per-packet one-way delay: 68.162 ms

Loss rate: 4.30%

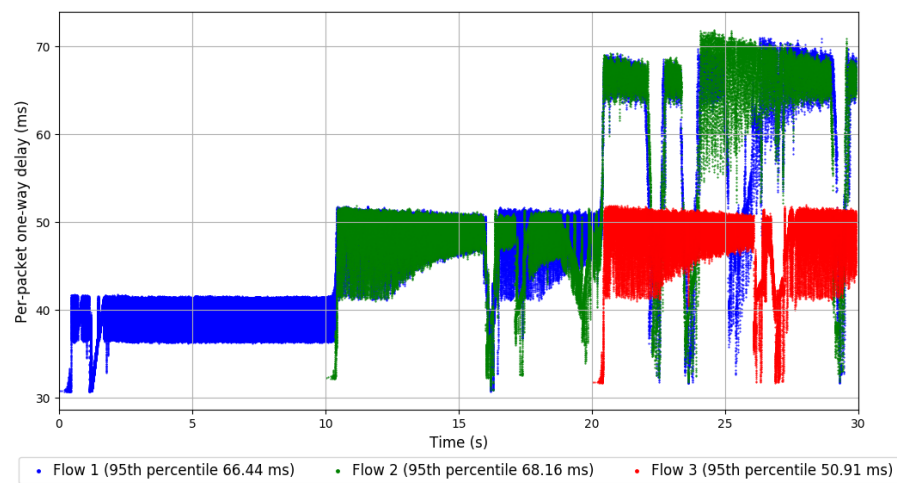
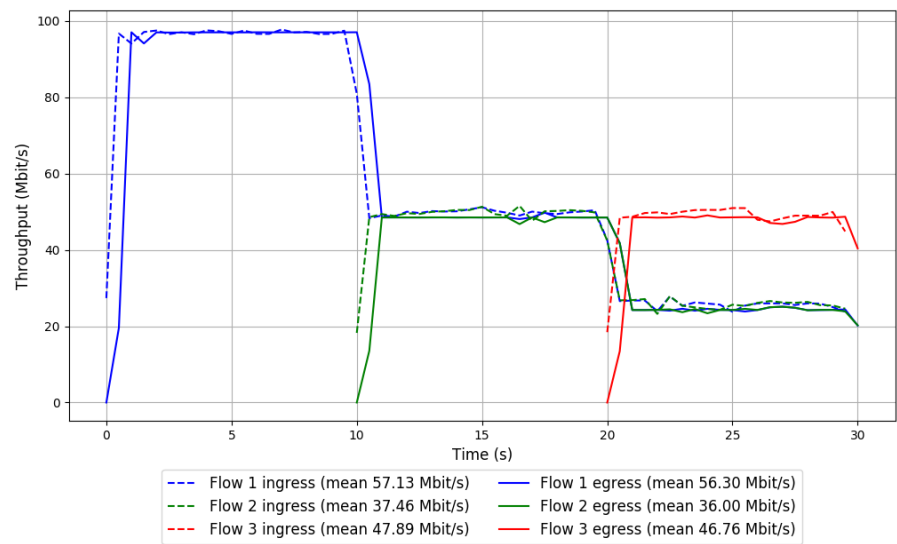
-- Flow 3:

Average throughput: 46.76 Mbit/s

95th percentile per-packet one-way delay: 50.913 ms

Loss rate: 3.08%

Run 10: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2018-08-02 00:34:16

End at: 2018-08-02 00:34:46

Local clock offset: 0.093 ms

Remote clock offset: 1.629 ms

Below is generated by plot.py at 2018-08-02 04:16:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.57 Mbit/s

95th percentile per-packet one-way delay: 52.172 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 58.64 Mbit/s

95th percentile per-packet one-way delay: 51.879 ms

Loss rate: 0.87%

-- Flow 2:

Average throughput: 39.78 Mbit/s

95th percentile per-packet one-way delay: 52.358 ms

Loss rate: 0.61%

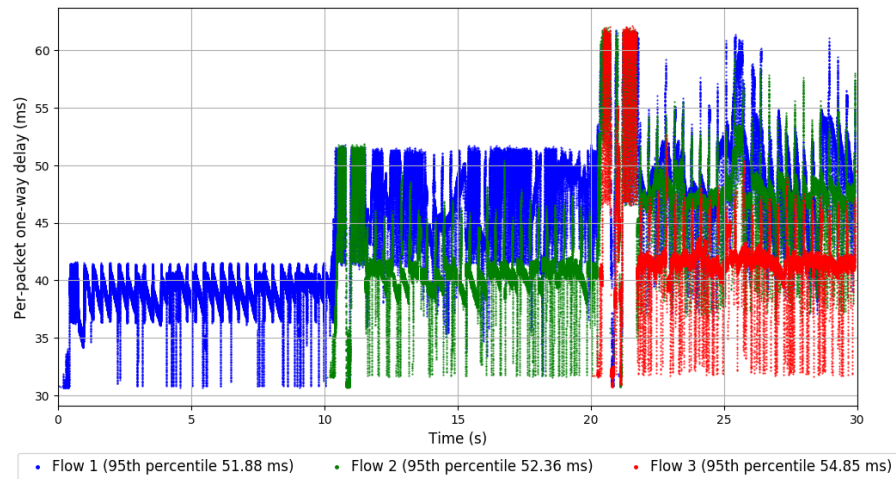
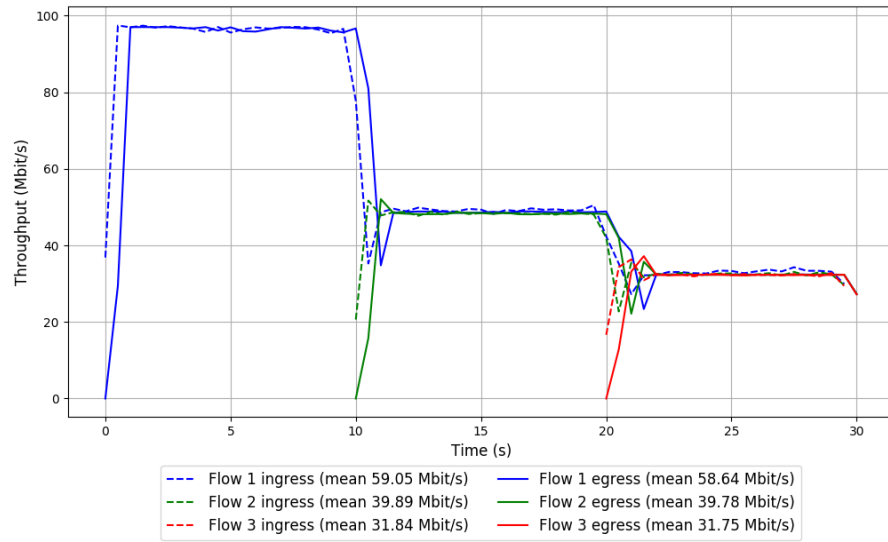
-- Flow 3:

Average throughput: 31.75 Mbit/s

95th percentile per-packet one-way delay: 54.847 ms

Loss rate: 0.91%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-08-02 00:57:07

End at: 2018-08-02 00:57:37

Local clock offset: 0.256 ms

Remote clock offset: 1.342 ms

Below is generated by plot.py at 2018-08-02 04:16:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.71 Mbit/s

95th percentile per-packet one-way delay: 51.225 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 56.22 Mbit/s

95th percentile per-packet one-way delay: 53.156 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 47.32 Mbit/s

95th percentile per-packet one-way delay: 49.007 ms

Loss rate: 0.52%

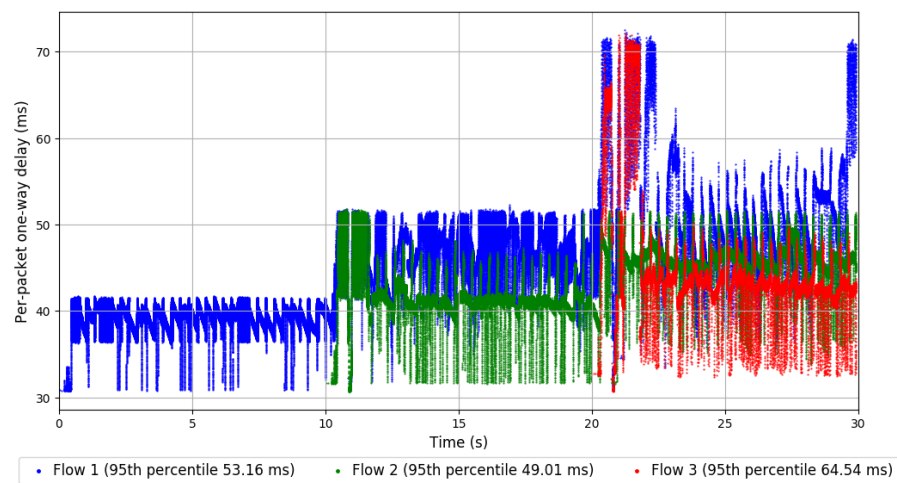
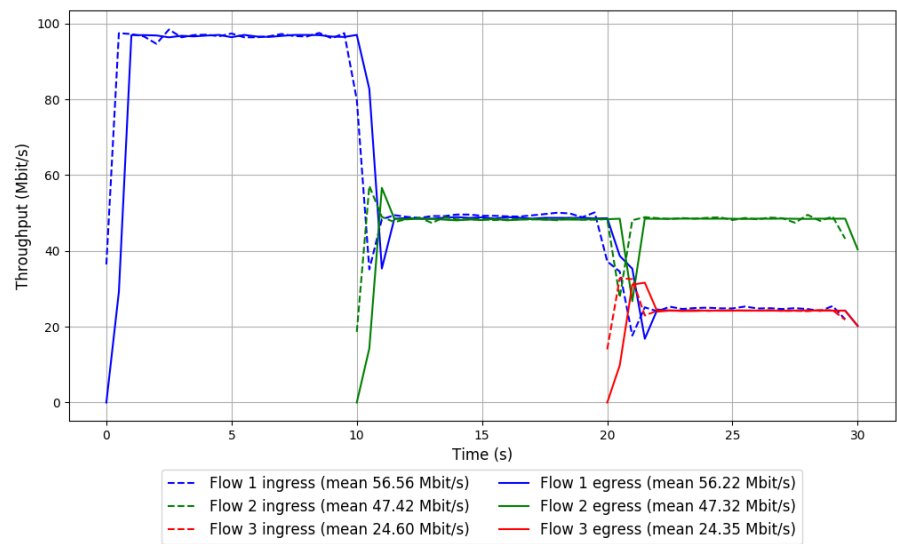
-- Flow 3:

Average throughput: 24.35 Mbit/s

95th percentile per-packet one-way delay: 64.544 ms

Loss rate: 1.63%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2018-08-02 01:20:07

End at: 2018-08-02 01:20:37

Local clock offset: 0.152 ms

Remote clock offset: 2.319 ms

Below is generated by plot.py at 2018-08-02 04:16:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.68 Mbit/s

95th percentile per-packet one-way delay: 53.239 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 55.98 Mbit/s

95th percentile per-packet one-way delay: 53.732 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 36.33 Mbit/s

95th percentile per-packet one-way delay: 56.712 ms

Loss rate: 0.96%

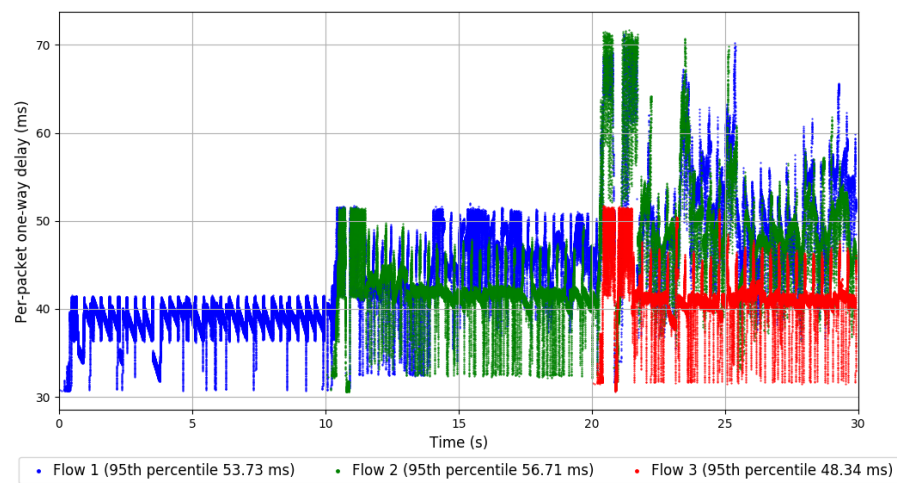
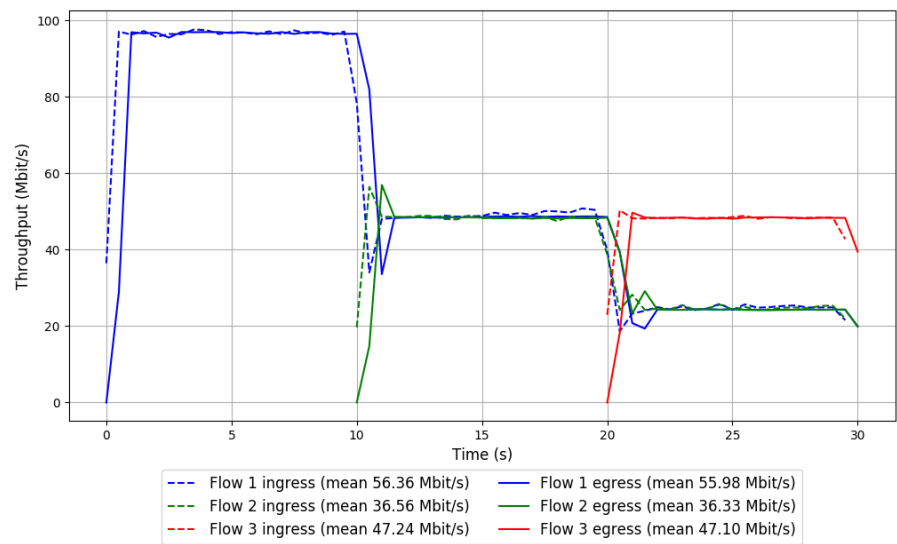
-- Flow 3:

Average throughput: 47.10 Mbit/s

95th percentile per-packet one-way delay: 48.340 ms

Loss rate: 0.96%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2018-08-02 01:43:13

End at: 2018-08-02 01:43:43

Local clock offset: 0.199 ms

Remote clock offset: 2.431 ms

Below is generated by plot.py at 2018-08-02 04:16:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.76 Mbit/s

95th percentile per-packet one-way delay: 51.598 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 58.57 Mbit/s

95th percentile per-packet one-way delay: 51.290 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 40.17 Mbit/s

95th percentile per-packet one-way delay: 52.075 ms

Loss rate: 0.75%

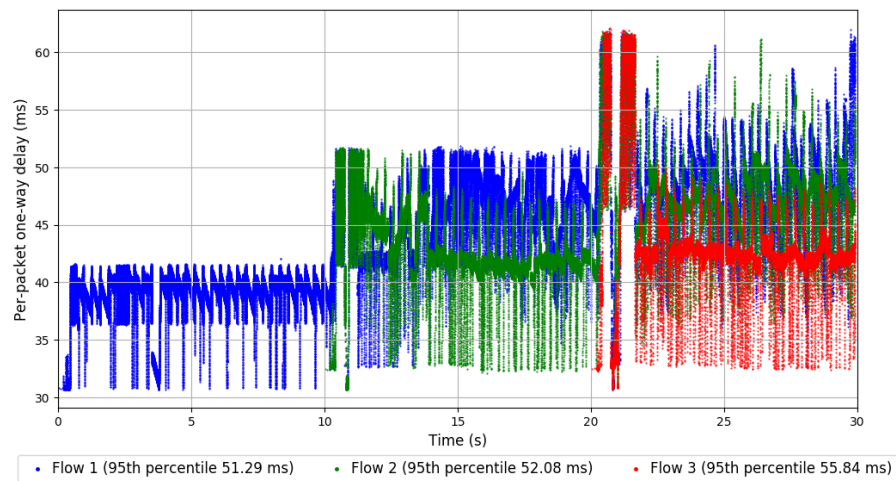
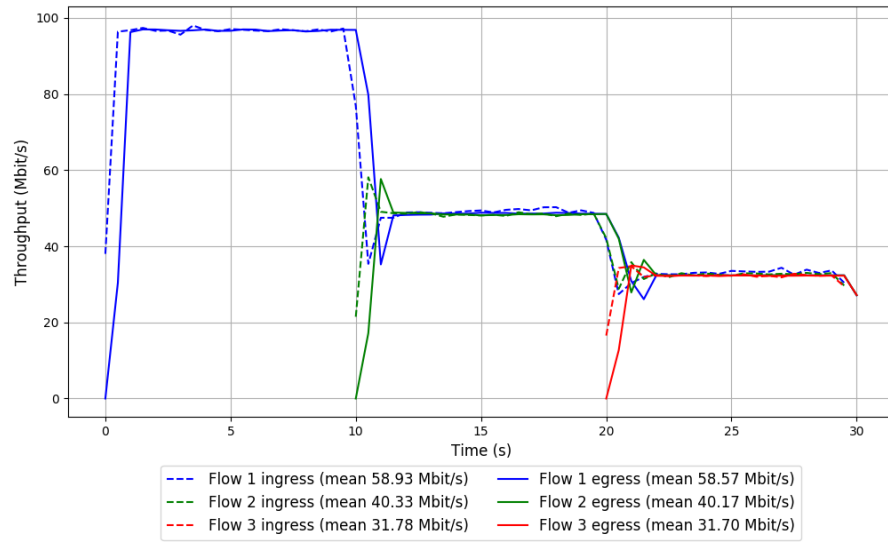
-- Flow 3:

Average throughput: 31.70 Mbit/s

95th percentile per-packet one-way delay: 55.844 ms

Loss rate: 0.93%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2018-08-02 02:06:11

End at: 2018-08-02 02:06:41

Local clock offset: 0.058 ms

Remote clock offset: 2.339 ms

Below is generated by plot.py at 2018-08-02 04:16:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.66 Mbit/s

95th percentile per-packet one-way delay: 51.611 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 58.61 Mbit/s

95th percentile per-packet one-way delay: 51.436 ms

Loss rate: 0.92%

-- Flow 2:

Average throughput: 39.91 Mbit/s

95th percentile per-packet one-way delay: 51.830 ms

Loss rate: 0.70%

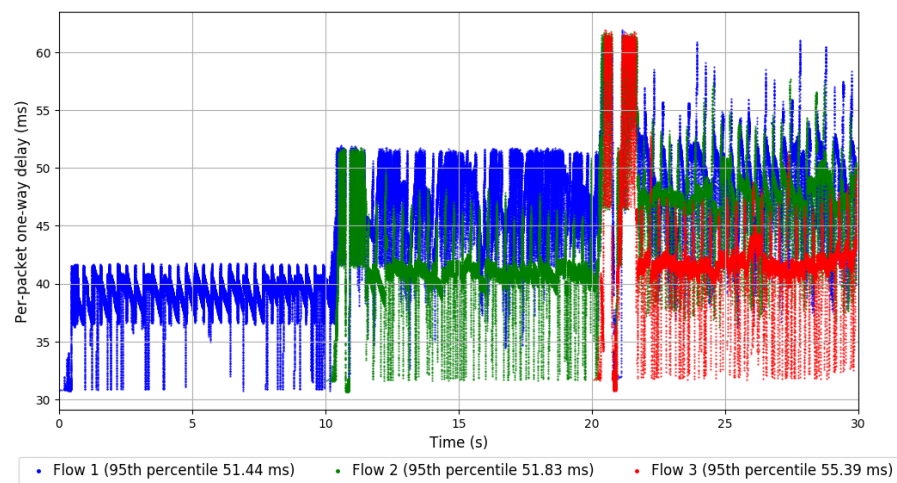
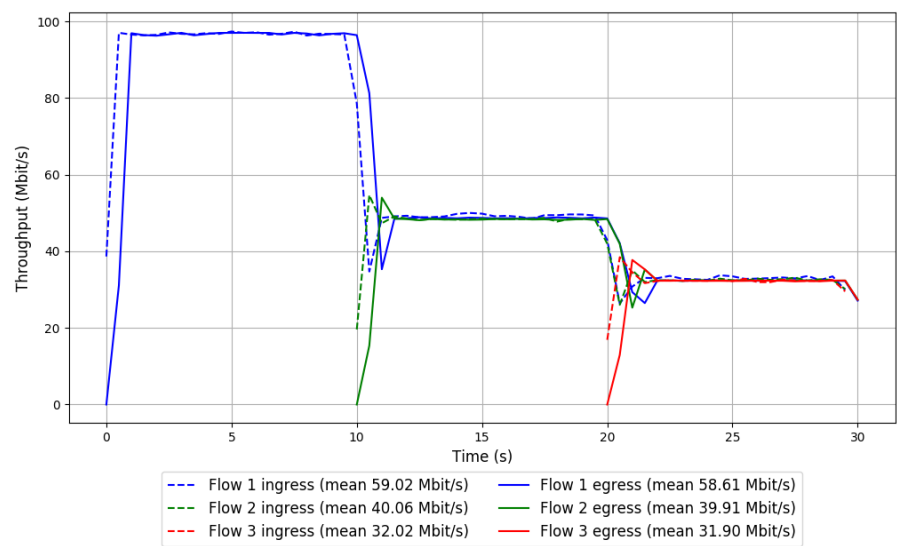
-- Flow 3:

Average throughput: 31.90 Mbit/s

95th percentile per-packet one-way delay: 55.392 ms

Loss rate: 0.95%

Run 5: Report of FillP-Sheep — Data Link



Run 6: Statistics of FillP-Sheep

Start at: 2018-08-02 02:29:26

End at: 2018-08-02 02:29:56

Local clock offset: -1.854 ms

Remote clock offset: 1.814 ms

Below is generated by plot.py at 2018-08-02 04:16:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.72 Mbit/s

95th percentile per-packet one-way delay: 52.744 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 58.55 Mbit/s

95th percentile per-packet one-way delay: 52.670 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 40.18 Mbit/s

95th percentile per-packet one-way delay: 52.495 ms

Loss rate: 0.60%

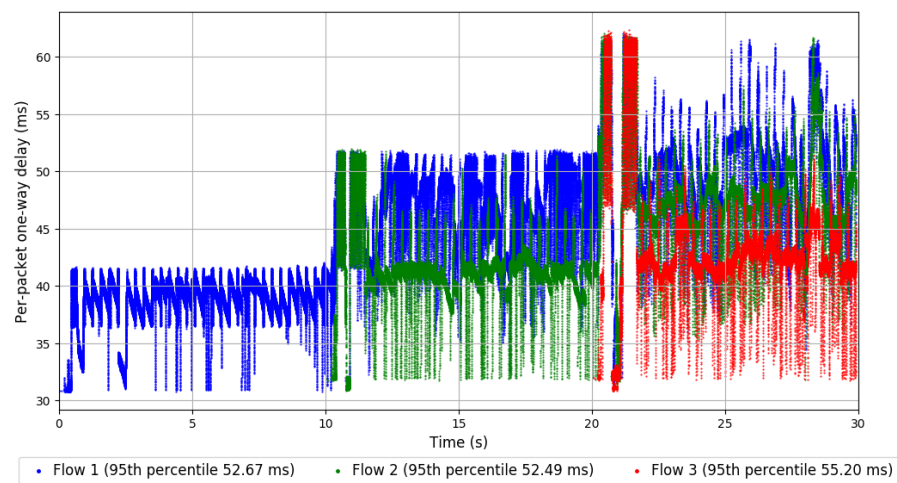
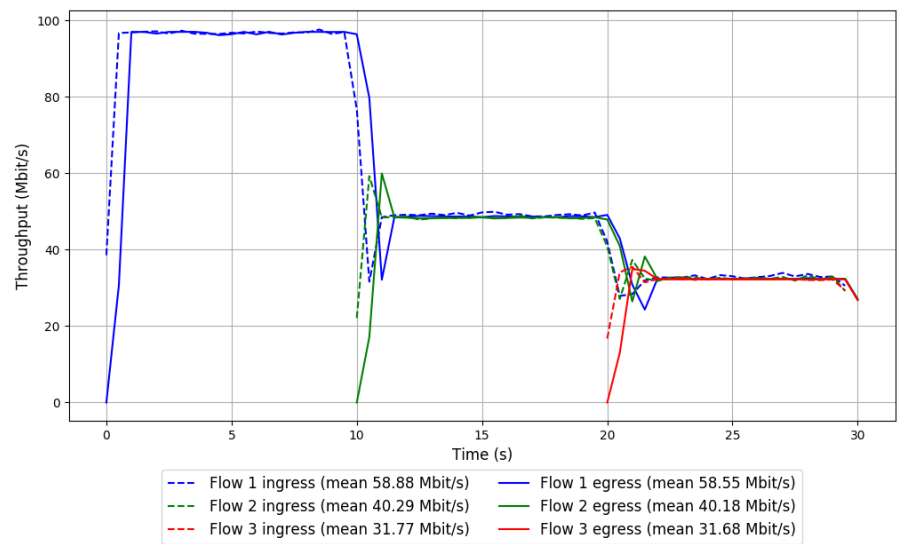
-- Flow 3:

Average throughput: 31.68 Mbit/s

95th percentile per-packet one-way delay: 55.205 ms

Loss rate: 0.92%

Run 6: Report of FillP-Sheep — Data Link

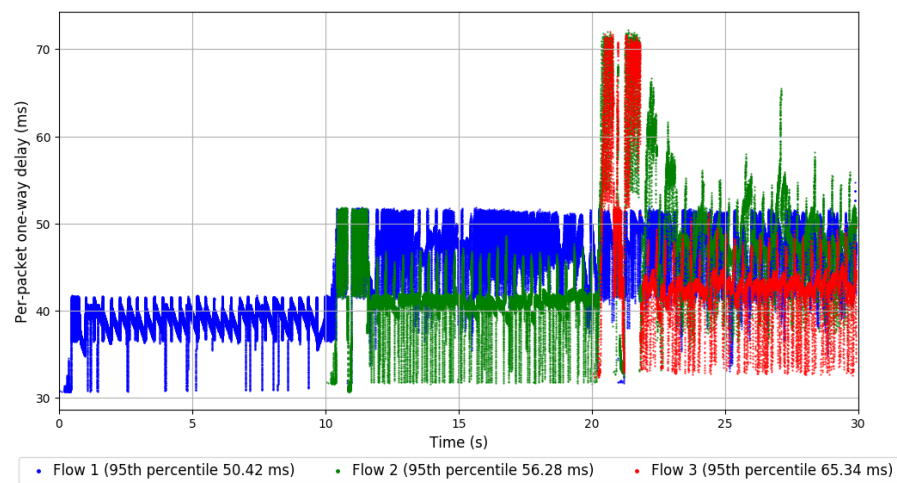
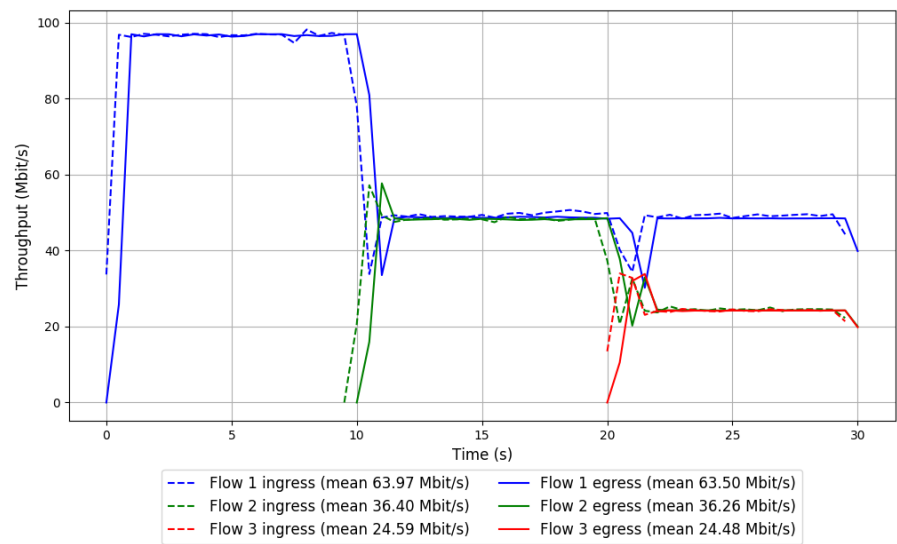


Run 7: Statistics of FillP-Sheep

Start at: 2018-08-02 02:52:30
End at: 2018-08-02 02:53:00
Local clock offset: -4.102 ms
Remote clock offset: 1.952 ms

Below is generated by plot.py at 2018-08-02 04:17:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.70 Mbit/s
95th percentile per-packet one-way delay: 50.962 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 63.50 Mbit/s
95th percentile per-packet one-way delay: 50.417 ms
Loss rate: 0.94%
-- Flow 2:
Average throughput: 36.26 Mbit/s
95th percentile per-packet one-way delay: 56.278 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 24.48 Mbit/s
95th percentile per-packet one-way delay: 65.341 ms
Loss rate: 1.05%

Run 7: Report of FillP-Sheep — Data Link



Run 8: Statistics of FillP-Sheep

Start at: 2018-08-02 03:15:19

End at: 2018-08-02 03:15:49

Local clock offset: -5.317 ms

Remote clock offset: 2.185 ms

Below is generated by plot.py at 2018-08-02 04:17:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.76 Mbit/s

95th percentile per-packet one-way delay: 51.878 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 55.99 Mbit/s

95th percentile per-packet one-way delay: 52.119 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 36.39 Mbit/s

95th percentile per-packet one-way delay: 54.502 ms

Loss rate: 1.01%

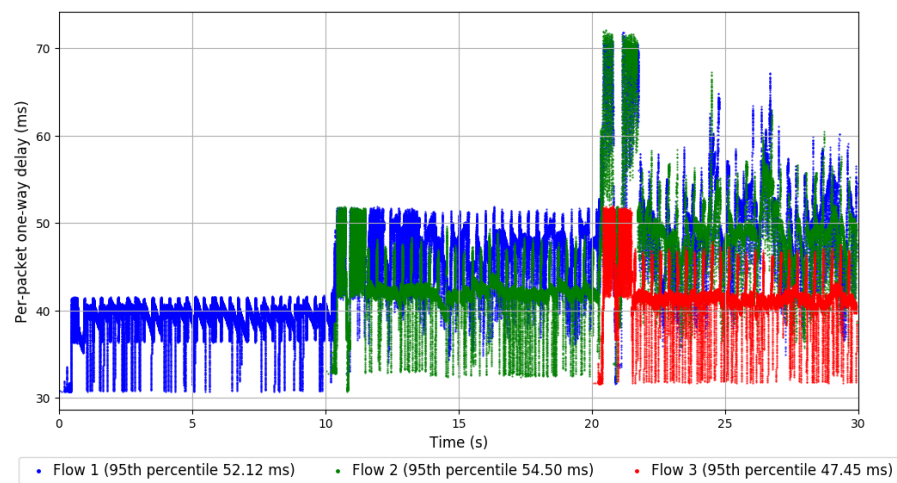
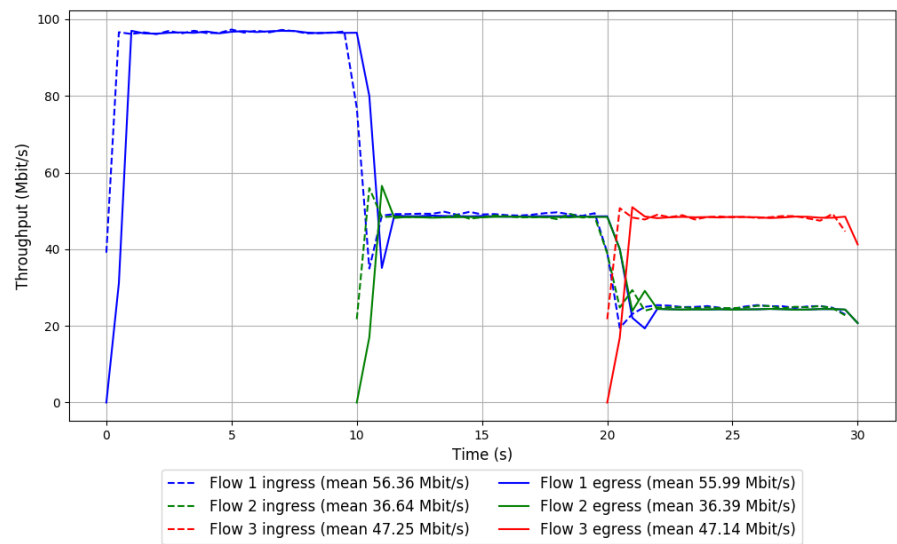
-- Flow 3:

Average throughput: 47.14 Mbit/s

95th percentile per-packet one-way delay: 47.450 ms

Loss rate: 0.88%

Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

Start at: 2018-08-02 03:38:28

End at: 2018-08-02 03:38:58

Local clock offset: 0.115 ms

Remote clock offset: 2.909 ms

Below is generated by plot.py at 2018-08-02 04:17:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.63 Mbit/s

95th percentile per-packet one-way delay: 52.921 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 58.68 Mbit/s

95th percentile per-packet one-way delay: 52.834 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 39.75 Mbit/s

95th percentile per-packet one-way delay: 52.422 ms

Loss rate: 0.81%

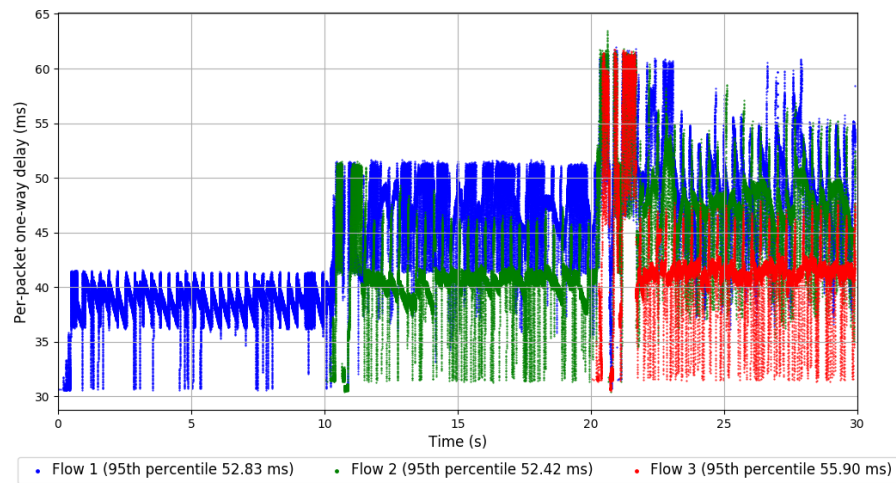
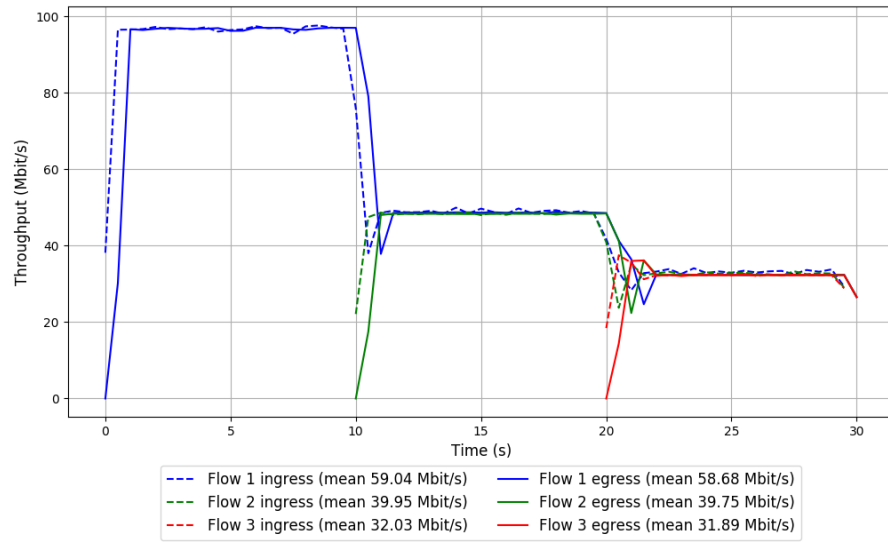
-- Flow 3:

Average throughput: 31.89 Mbit/s

95th percentile per-packet one-way delay: 55.903 ms

Loss rate: 1.08%

Run 9: Report of FillP-Sheep — Data Link



Run 10: Statistics of FillP-Sheep

Start at: 2018-08-02 04:01:31

End at: 2018-08-02 04:02:01

Local clock offset: 1.497 ms

Remote clock offset: 1.686 ms

Below is generated by plot.py at 2018-08-02 04:17:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.58 Mbit/s

95th percentile per-packet one-way delay: 51.974 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 58.69 Mbit/s

95th percentile per-packet one-way delay: 51.466 ms

Loss rate: 0.97%

-- Flow 2:

Average throughput: 39.70 Mbit/s

95th percentile per-packet one-way delay: 52.575 ms

Loss rate: 0.76%

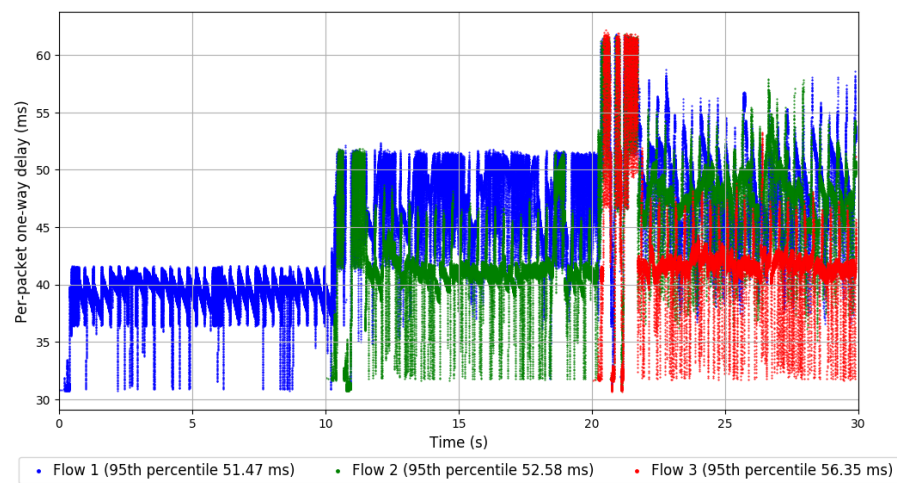
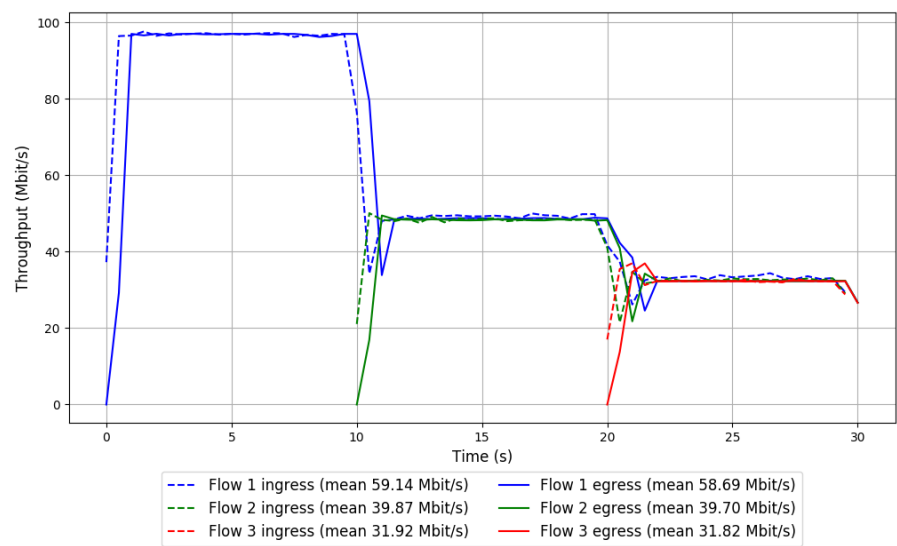
-- Flow 3:

Average throughput: 31.82 Mbit/s

95th percentile per-packet one-way delay: 56.351 ms

Loss rate: 0.91%

Run 10: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2018-08-02 00:22:15

End at: 2018-08-02 00:22:45

Local clock offset: -0.301 ms

Remote clock offset: 2.343 ms

Below is generated by plot.py at 2018-08-02 04:17:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.12 Mbit/s

95th percentile per-packet one-way delay: 43.787 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 59.08 Mbit/s

95th percentile per-packet one-way delay: 44.303 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 40.11 Mbit/s

95th percentile per-packet one-way delay: 43.260 ms

Loss rate: 0.35%

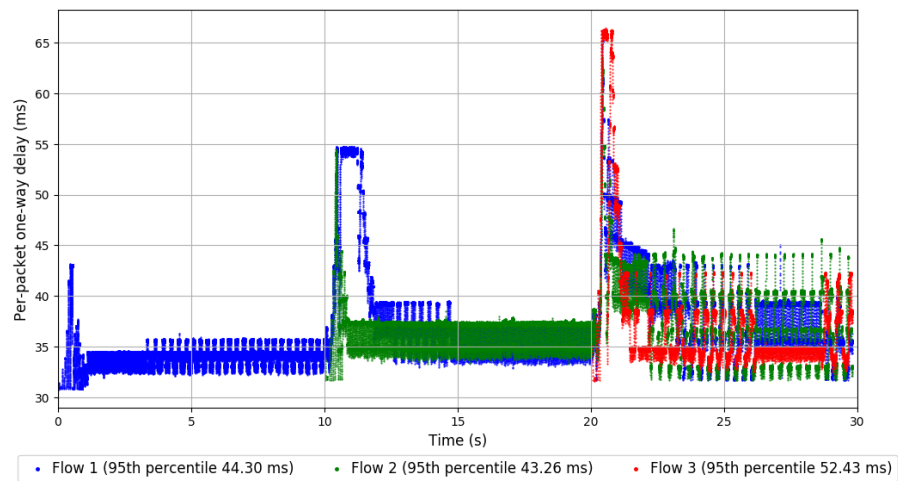
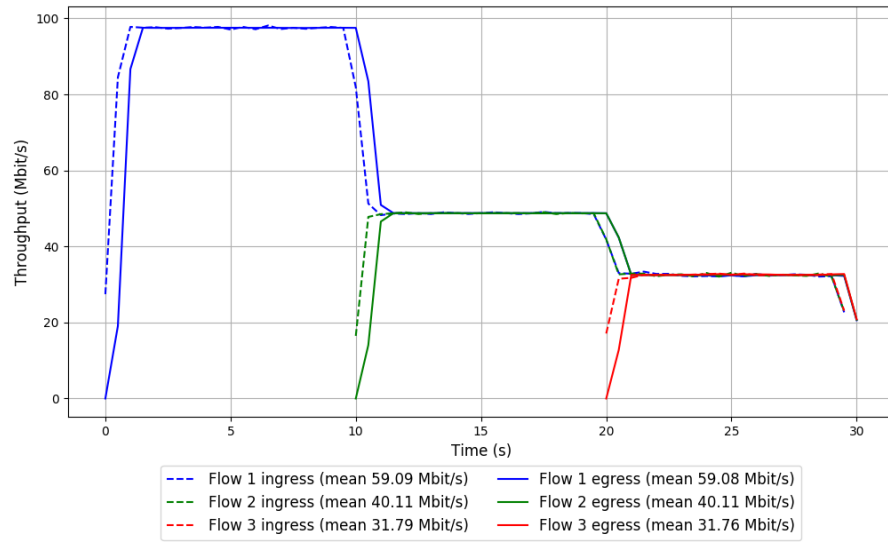
-- Flow 3:

Average throughput: 31.76 Mbit/s

95th percentile per-packet one-way delay: 52.429 ms

Loss rate: 0.77%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-08-02 00:45:04

End at: 2018-08-02 00:45:34

Local clock offset: 0.189 ms

Remote clock offset: 1.297 ms

Below is generated by plot.py at 2018-08-02 04:17:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.92 Mbit/s

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

Loss rate: 0.37%

-- Flow 1:

Average throughput: 58.99 Mbit/s

95th percentile per-packet one-way delay: 43.624 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 40.01 Mbit/s

95th percentile per-packet one-way delay: 43.478 ms

Loss rate: 0.51%

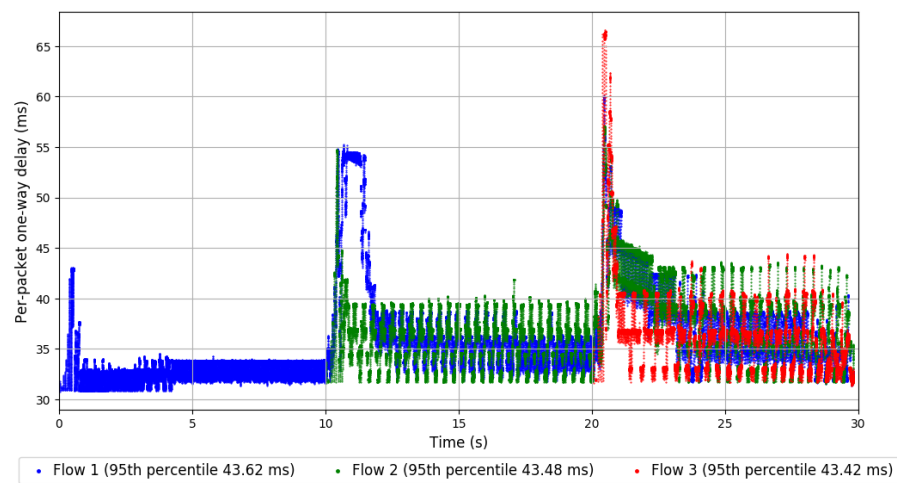
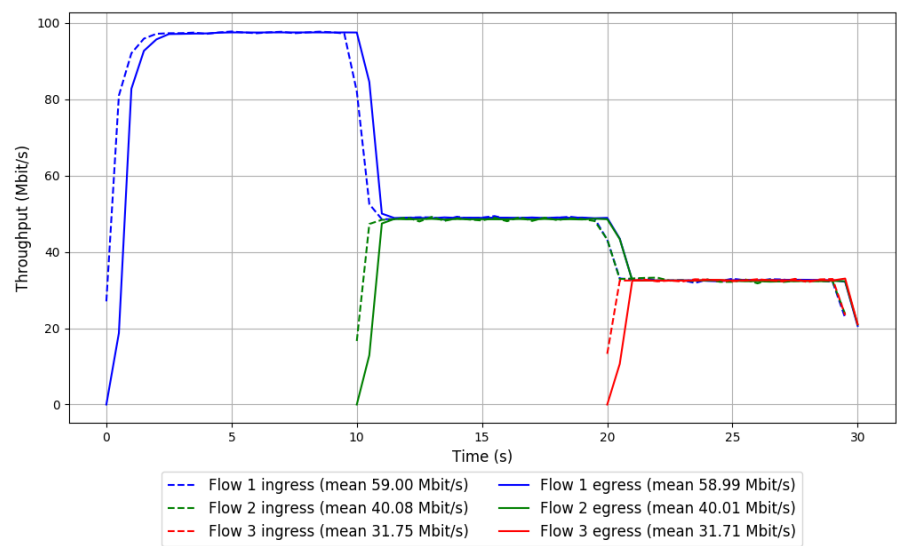
-- Flow 3:

Average throughput: 31.71 Mbit/s

95th percentile per-packet one-way delay: 43.416 ms

Loss rate: 0.79%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-08-02 01:08:01

End at: 2018-08-02 01:08:31

Local clock offset: 0.276 ms

Remote clock offset: 1.816 ms

Below is generated by plot.py at 2018-08-02 04:17:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.07 Mbit/s

95th percentile per-packet one-way delay: 42.019 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 64.22 Mbit/s

95th percentile per-packet one-way delay: 38.784 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 36.41 Mbit/s

95th percentile per-packet one-way delay: 49.773 ms

Loss rate: 0.42%

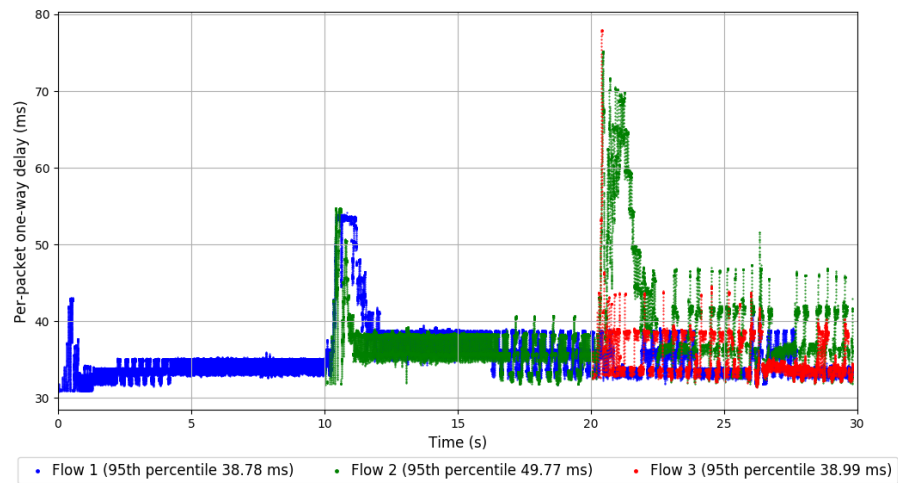
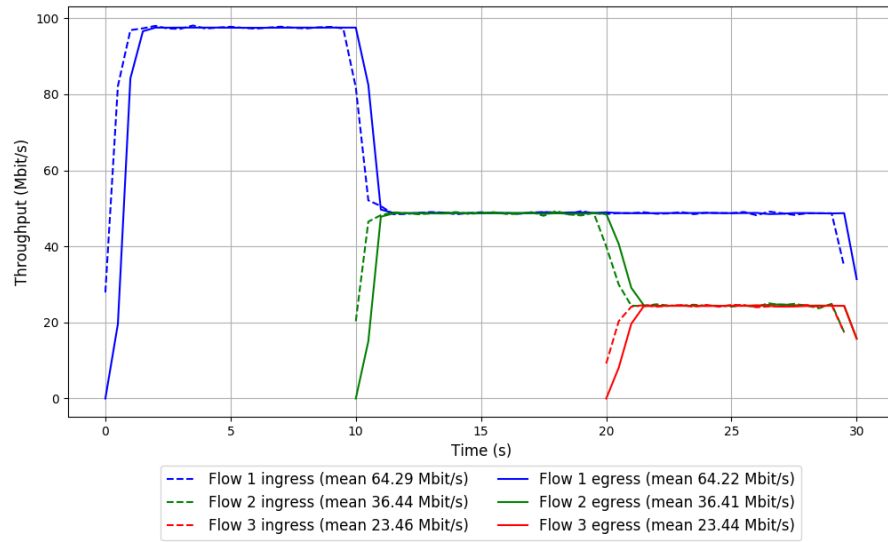
-- Flow 3:

Average throughput: 23.44 Mbit/s

95th percentile per-packet one-way delay: 38.988 ms

Loss rate: 0.76%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-08-02 01:31:06

End at: 2018-08-02 01:31:36

Local clock offset: 0.248 ms

Remote clock offset: 2.543 ms

Below is generated by plot.py at 2018-08-02 04:17:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.07 Mbit/s

95th percentile per-packet one-way delay: 44.157 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 56.98 Mbit/s

95th percentile per-packet one-way delay: 49.175 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 47.52 Mbit/s

95th percentile per-packet one-way delay: 38.665 ms

Loss rate: 0.37%

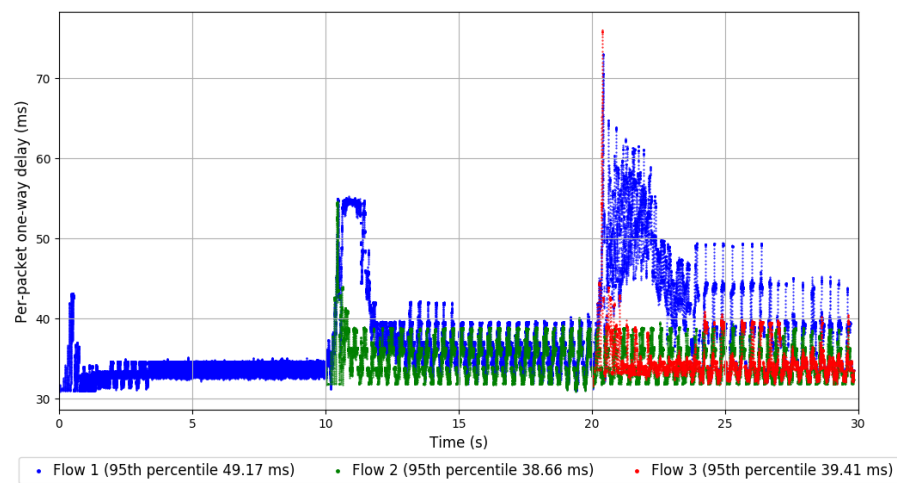
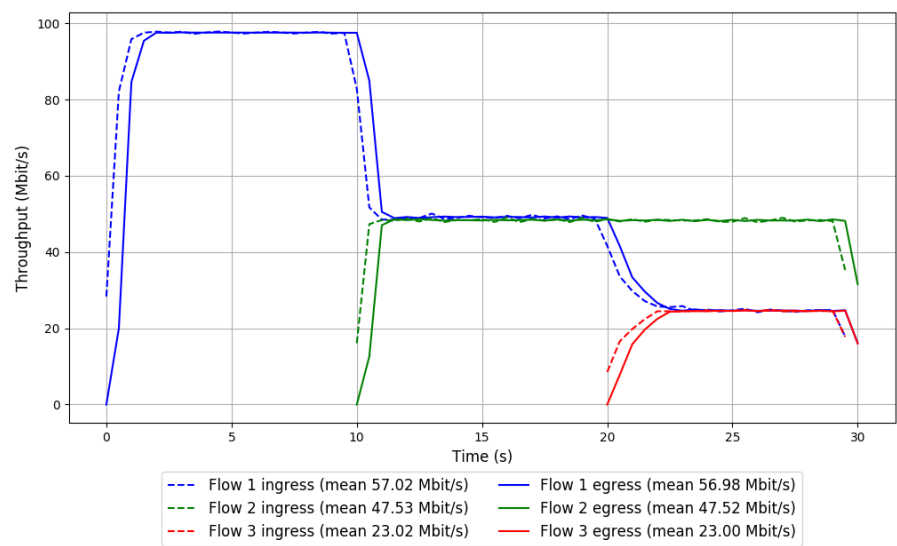
-- Flow 3:

Average throughput: 23.00 Mbit/s

95th percentile per-packet one-way delay: 39.405 ms

Loss rate: 0.75%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-08-02 01:54:08

End at: 2018-08-02 01:54:38

Local clock offset: 0.018 ms

Remote clock offset: 2.319 ms

Below is generated by plot.py at 2018-08-02 04:18:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.07 Mbit/s

95th percentile per-packet one-way delay: 44.076 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 59.22 Mbit/s

95th percentile per-packet one-way delay: 45.253 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 39.82 Mbit/s

95th percentile per-packet one-way delay: 40.796 ms

Loss rate: 0.32%

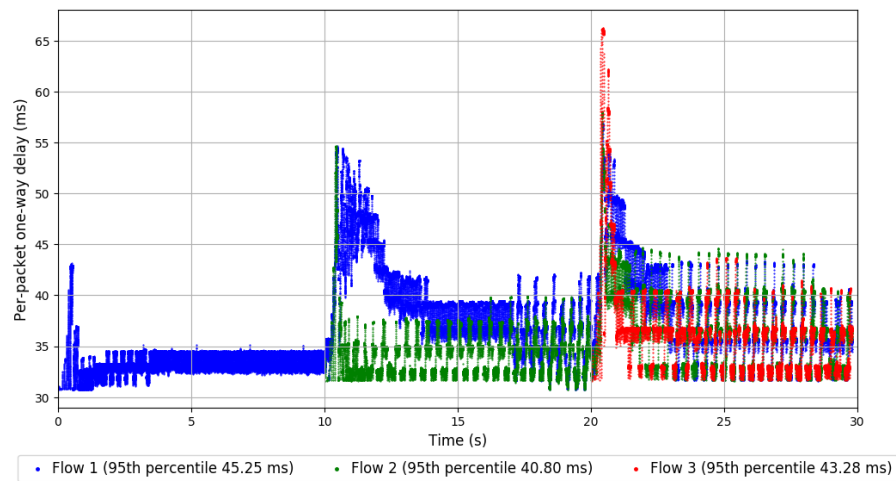
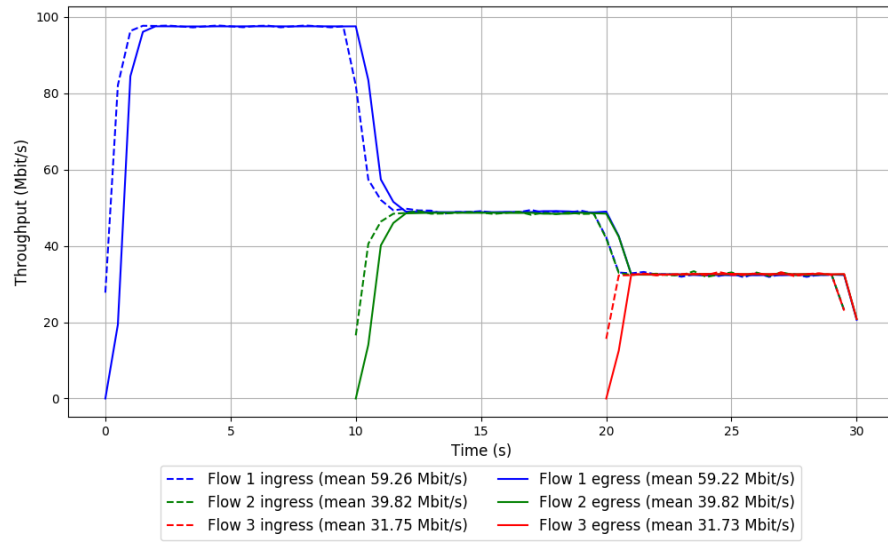
-- Flow 3:

Average throughput: 31.73 Mbit/s

95th percentile per-packet one-way delay: 43.279 ms

Loss rate: 0.74%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-08-02 02:17:13

End at: 2018-08-02 02:17:43

Local clock offset: -0.074 ms

Remote clock offset: 2.022 ms

Below is generated by plot.py at 2018-08-02 04:18:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.02 Mbit/s

95th percentile per-packet one-way delay: 40.921 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 64.19 Mbit/s

95th percentile per-packet one-way delay: 38.298 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 36.17 Mbit/s

95th percentile per-packet one-way delay: 43.189 ms

Loss rate: 0.32%

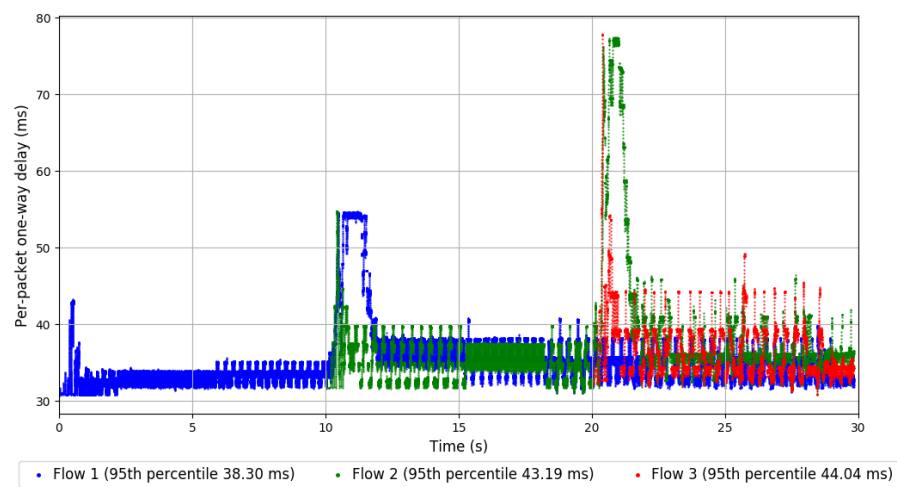
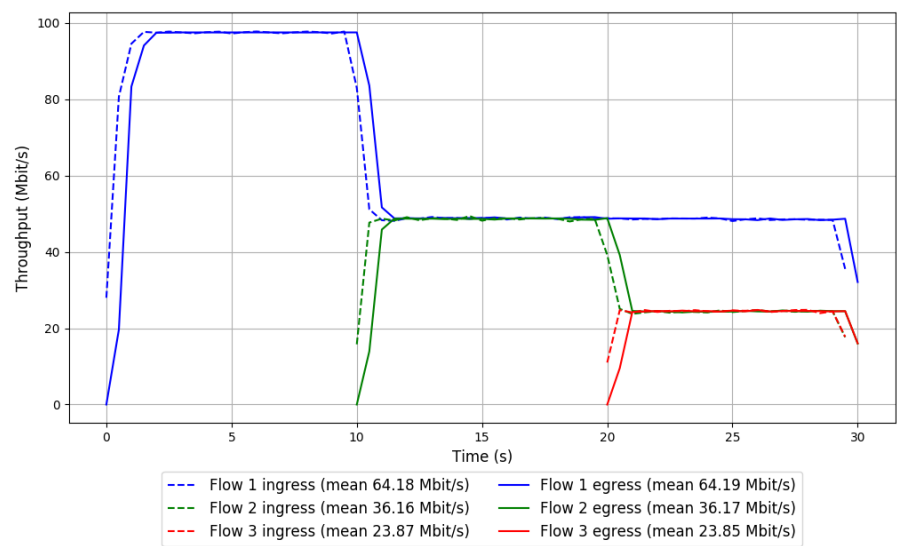
-- Flow 3:

Average throughput: 23.85 Mbit/s

95th percentile per-packet one-way delay: 44.041 ms

Loss rate: 0.78%

Run 6: Report of Indigo — Data Link

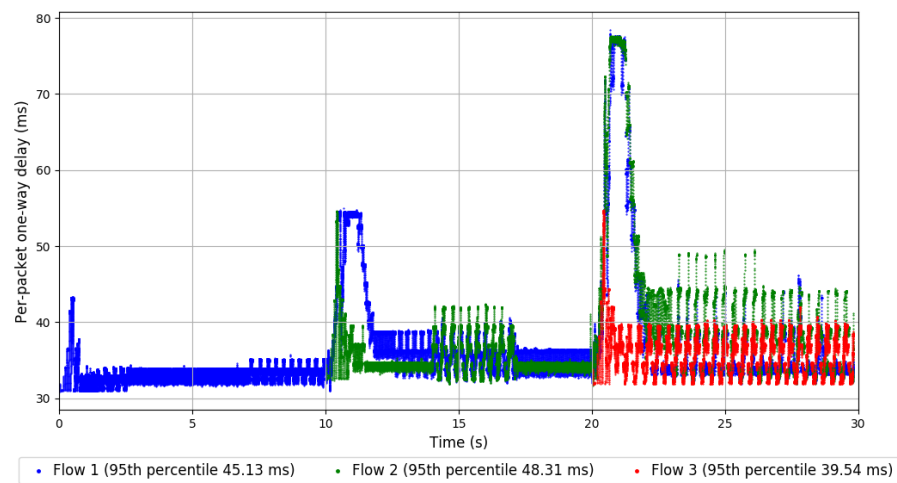
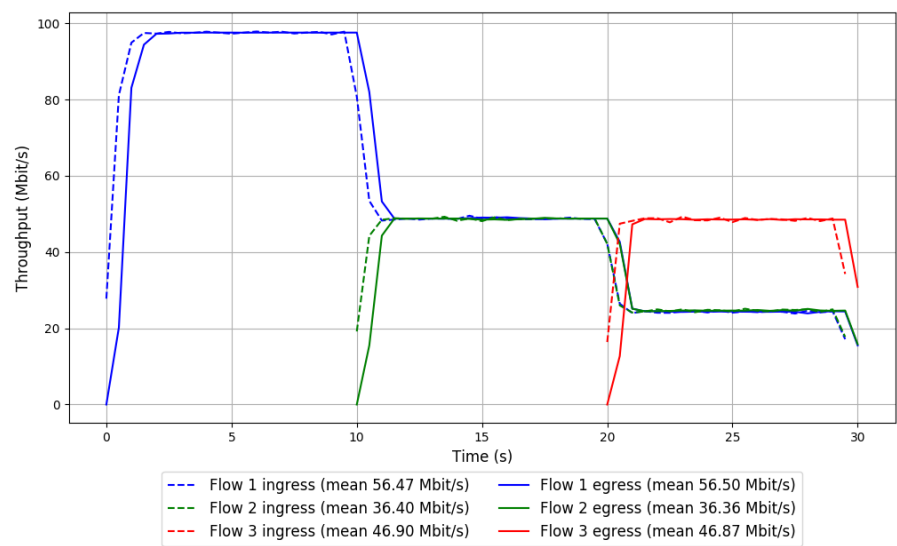


Run 7: Statistics of Indigo

Start at: 2018-08-02 02:40:25
End at: 2018-08-02 02:40:55
Local clock offset: -3.185 ms
Remote clock offset: 1.636 ms

Below is generated by plot.py at 2018-08-02 04:18:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.03 Mbit/s
95th percentile per-packet one-way delay: 44.295 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 56.50 Mbit/s
95th percentile per-packet one-way delay: 45.135 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 36.36 Mbit/s
95th percentile per-packet one-way delay: 48.307 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 46.87 Mbit/s
95th percentile per-packet one-way delay: 39.539 ms
Loss rate: 0.75%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-08-02 03:03:19

End at: 2018-08-02 03:03:49

Local clock offset: -4.634 ms

Remote clock offset: 2.063 ms

Below is generated by plot.py at 2018-08-02 04:18:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.99 Mbit/s

95th percentile per-packet one-way delay: 44.710 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 58.88 Mbit/s

95th percentile per-packet one-way delay: 43.603 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 40.20 Mbit/s

95th percentile per-packet one-way delay: 45.170 ms

Loss rate: 0.55%

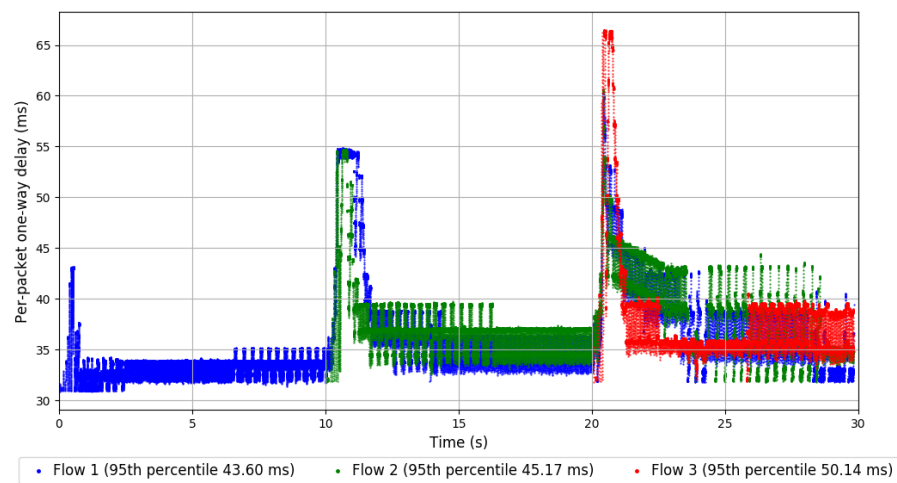
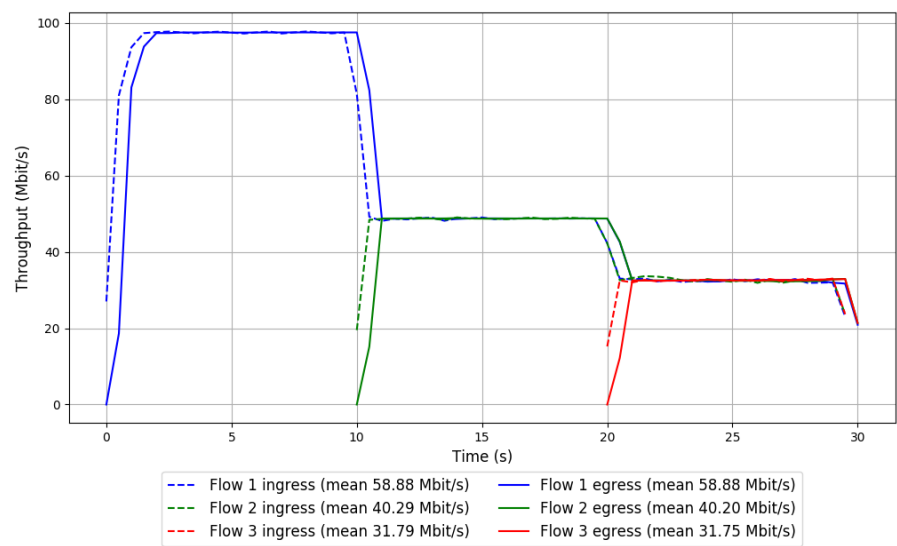
-- Flow 3:

Average throughput: 31.75 Mbit/s

95th percentile per-packet one-way delay: 50.141 ms

Loss rate: 0.80%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-08-02 03:26:22

End at: 2018-08-02 03:26:52

Local clock offset: -3.35 ms

Remote clock offset: 2.561 ms

Below is generated by plot.py at 2018-08-02 04:18:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.57 Mbit/s

95th percentile per-packet one-way delay: 40.932 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 63.68 Mbit/s

95th percentile per-packet one-way delay: 37.145 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 36.26 Mbit/s

95th percentile per-packet one-way delay: 43.488 ms

Loss rate: 0.34%

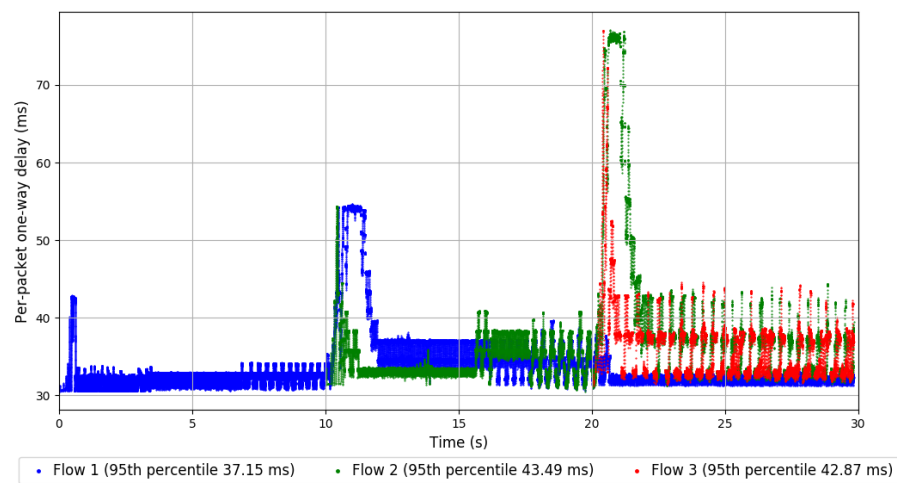
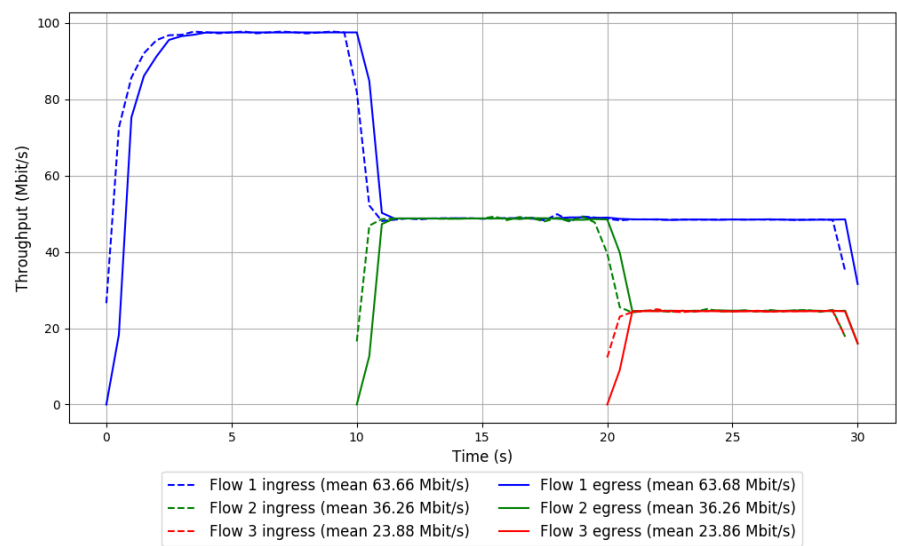
-- Flow 3:

Average throughput: 23.86 Mbit/s

95th percentile per-packet one-way delay: 42.874 ms

Loss rate: 0.77%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-08-02 03:49:18

End at: 2018-08-02 03:49:48

Local clock offset: 1.826 ms

Remote clock offset: 2.837 ms

Below is generated by plot.py at 2018-08-02 04:18:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.96 Mbit/s

95th percentile per-packet one-way delay: 45.310 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 56.43 Mbit/s

95th percentile per-packet one-way delay: 45.910 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 36.38 Mbit/s

95th percentile per-packet one-way delay: 51.462 ms

Loss rate: 0.39%

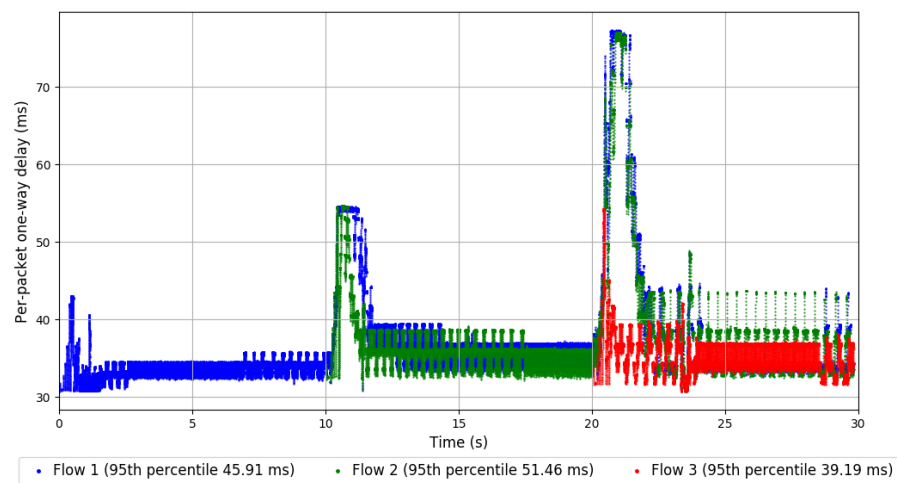
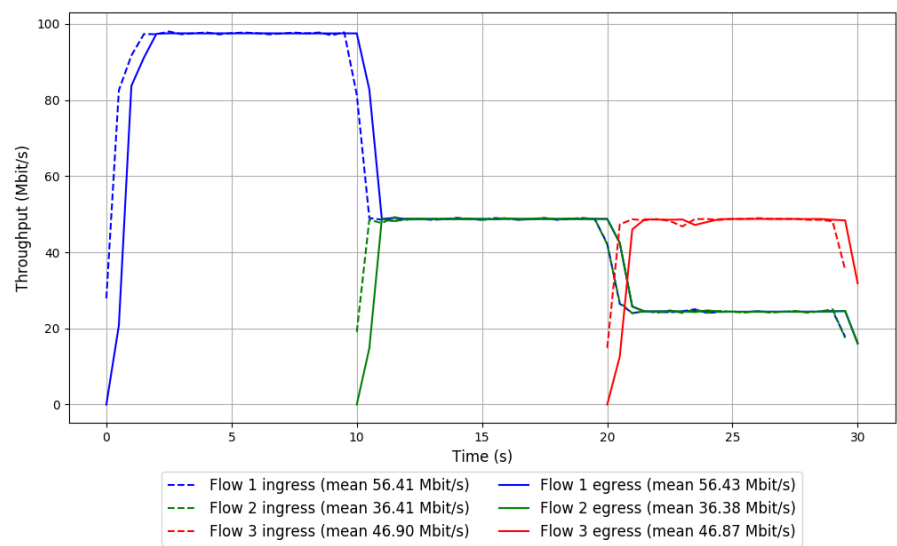
-- Flow 3:

Average throughput: 46.87 Mbit/s

95th percentile per-packet one-way delay: 39.186 ms

Loss rate: 0.73%

Run 10: Report of Indigo — Data Link

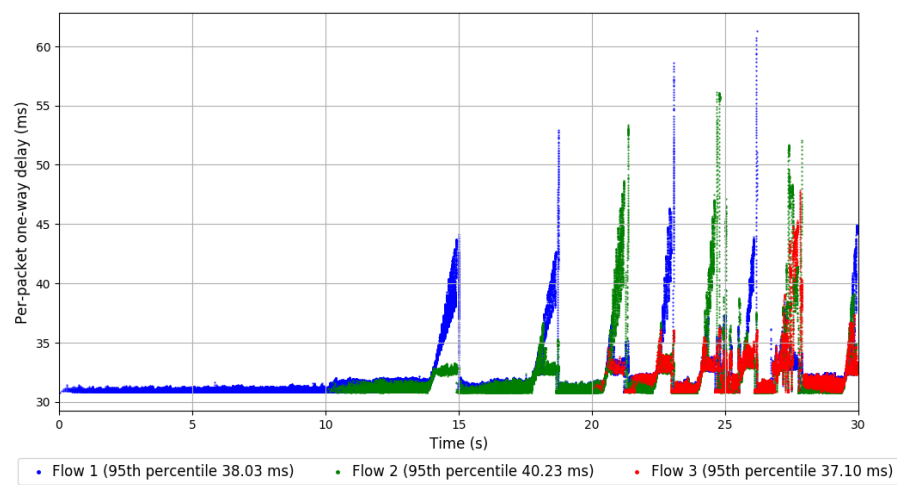
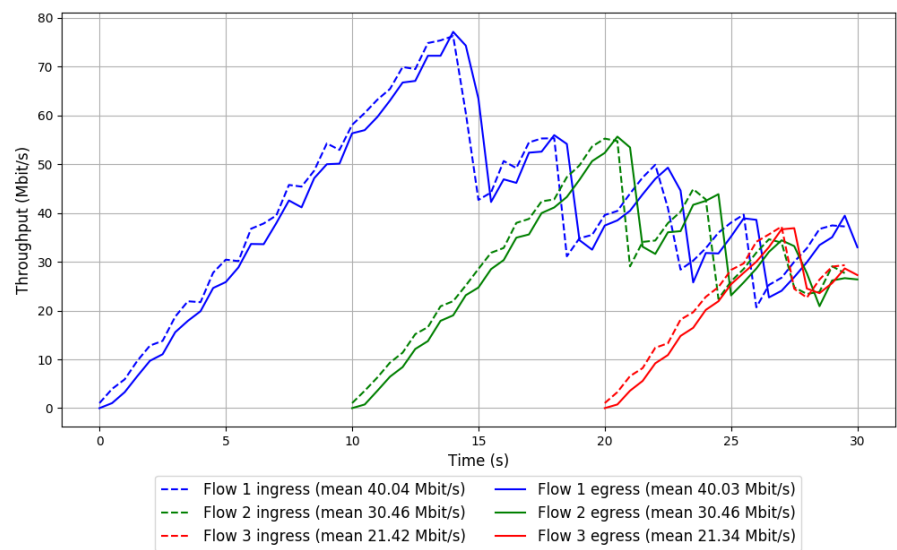


```
Run 1: Statistics of LEDBAT

Start at: 2018-08-02 00:36:56
End at: 2018-08-02 00:37:26
Local clock offset: 0.101 ms
Remote clock offset: 1.502 ms

# Below is generated by plot.py at 2018-08-02 04:18:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 67.36 Mbit/s
95th percentile per-packet one-way delay: 38.750 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 40.03 Mbit/s
95th percentile per-packet one-way delay: 38.030 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 30.46 Mbit/s
95th percentile per-packet one-way delay: 40.228 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 21.34 Mbit/s
95th percentile per-packet one-way delay: 37.102 ms
Loss rate: 1.01%
```


Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-08-02 00:59:49

End at: 2018-08-02 01:00:19

Local clock offset: 0.254 ms

Remote clock offset: 1.368 ms

Below is generated by plot.py at 2018-08-02 04:18:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 65.74 Mbit/s

95th percentile per-packet one-way delay: 38.646 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 40.42 Mbit/s

95th percentile per-packet one-way delay: 37.601 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 28.33 Mbit/s

95th percentile per-packet one-way delay: 40.454 ms

Loss rate: 0.24%

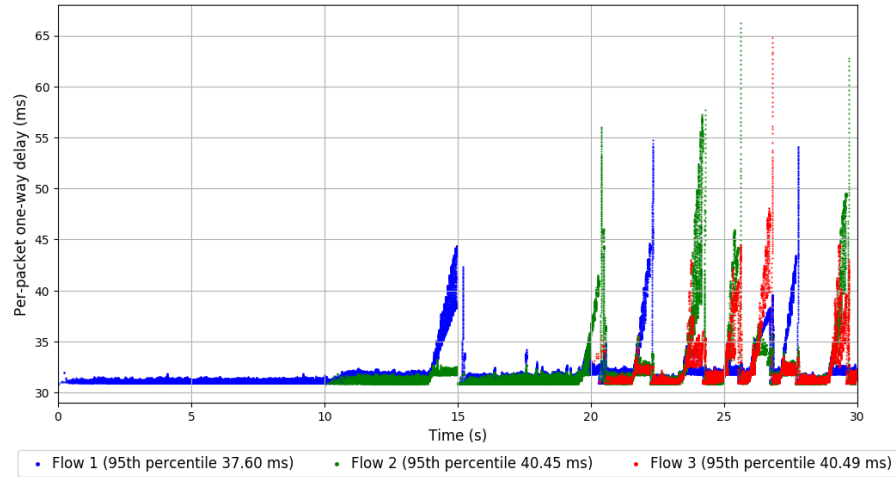
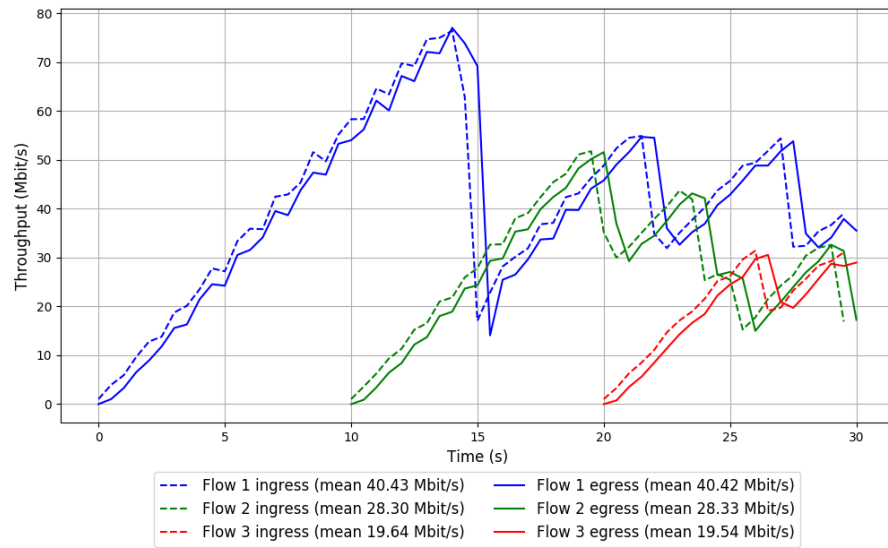
-- Flow 3:

Average throughput: 19.54 Mbit/s

95th percentile per-packet one-way delay: 40.492 ms

Loss rate: 1.16%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-08-02 01:22:56

End at: 2018-08-02 01:23:26

Local clock offset: 0.14 ms

Remote clock offset: 2.381 ms

Below is generated by plot.py at 2018-08-02 04:19:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.54 Mbit/s

95th percentile per-packet one-way delay: 38.553 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 39.54 Mbit/s

95th percentile per-packet one-way delay: 37.964 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 31.46 Mbit/s

95th percentile per-packet one-way delay: 39.705 ms

Loss rate: 0.31%

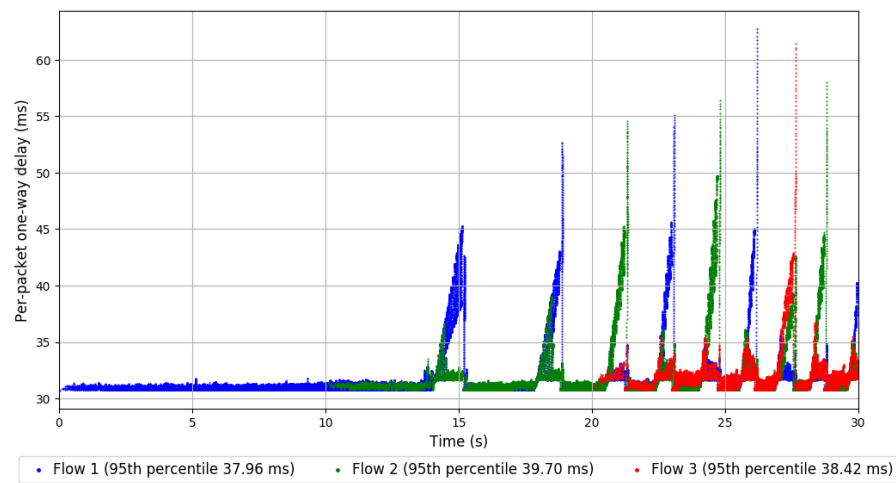
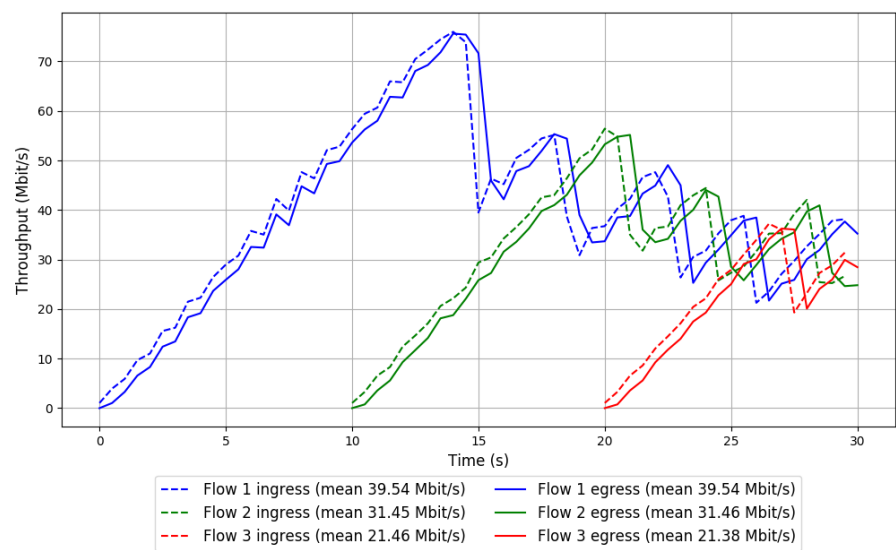
-- Flow 3:

Average throughput: 21.38 Mbit/s

95th percentile per-packet one-way delay: 38.422 ms

Loss rate: 1.03%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-08-02 01:45:57

End at: 2018-08-02 01:46:27

Local clock offset: 0.067 ms

Remote clock offset: 2.415 ms

Below is generated by plot.py at 2018-08-02 04:19:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.77 Mbit/s

95th percentile per-packet one-way delay: 38.736 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 38.83 Mbit/s

95th percentile per-packet one-way delay: 39.055 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 31.82 Mbit/s

95th percentile per-packet one-way delay: 38.027 ms

Loss rate: 0.34%

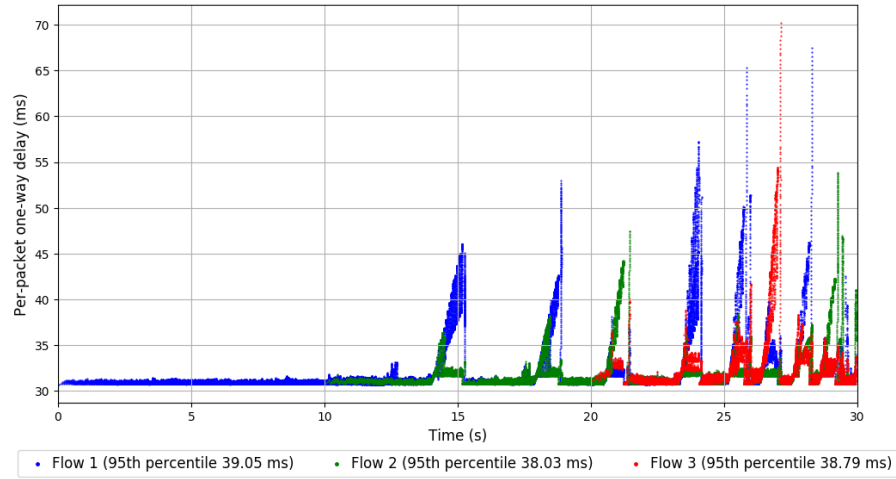
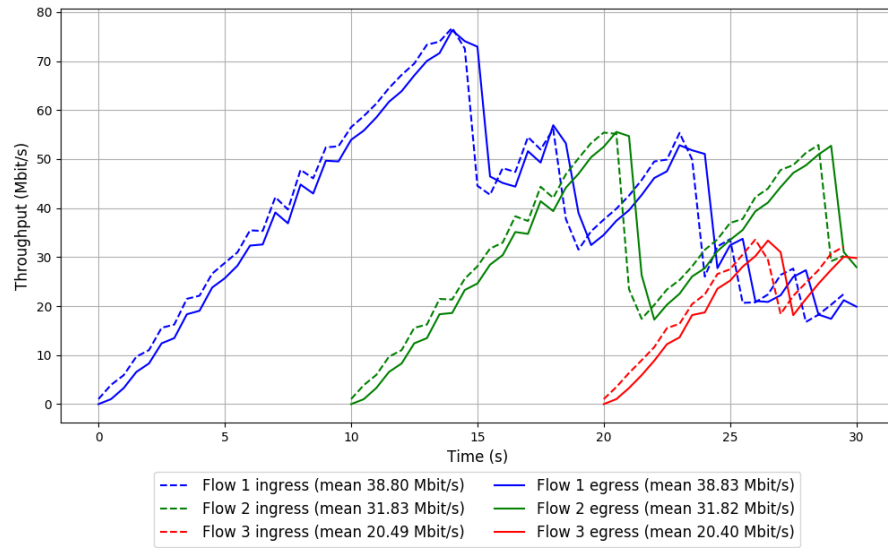
-- Flow 3:

Average throughput: 20.40 Mbit/s

95th percentile per-packet one-way delay: 38.788 ms

Loss rate: 1.11%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

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

End at: 2018-08-02 02:09:24

Local clock offset: 0.025 ms

Remote clock offset: 2.398 ms

Below is generated by plot.py at 2018-08-02 04:19:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.32 Mbit/s

95th percentile per-packet one-way delay: 38.513 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 41.29 Mbit/s

95th percentile per-packet one-way delay: 38.213 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 26.93 Mbit/s

95th percentile per-packet one-way delay: 39.576 ms

Loss rate: 0.36%

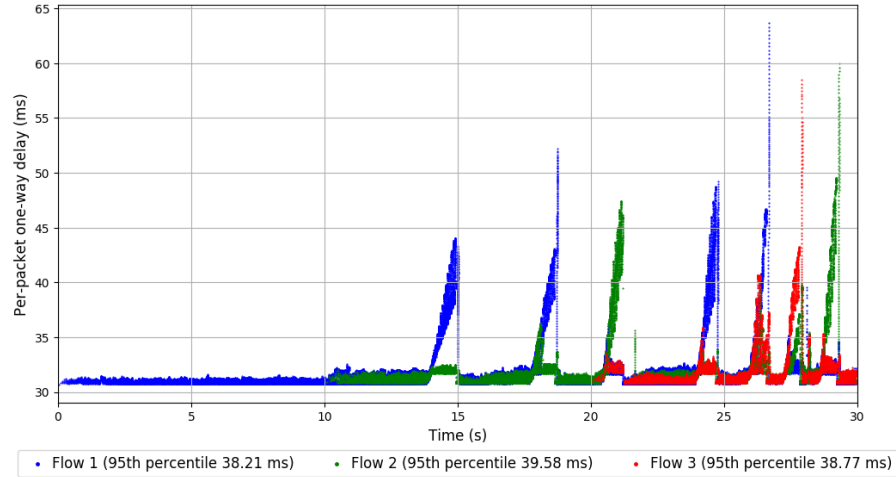
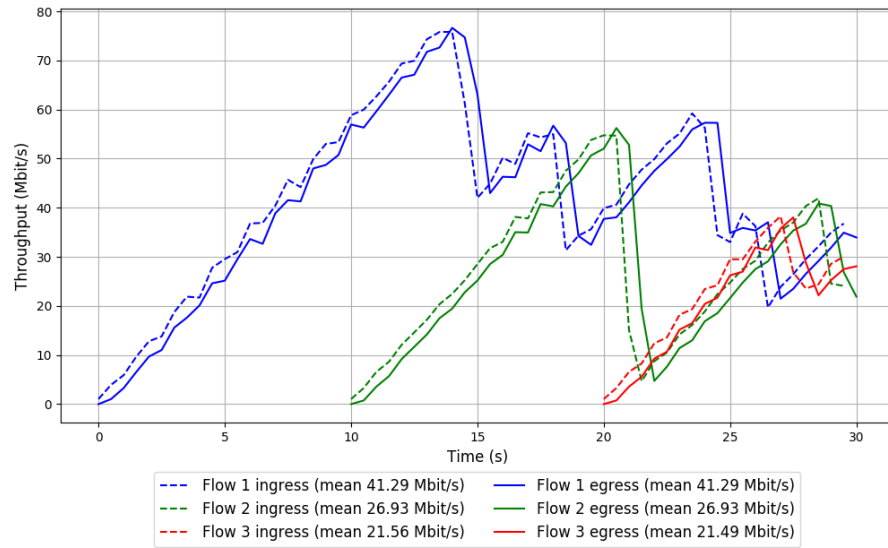
-- Flow 3:

Average throughput: 21.49 Mbit/s

95th percentile per-packet one-way delay: 38.769 ms

Loss rate: 1.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-08-02 02:32:09

End at: 2018-08-02 02:32:39

Local clock offset: -2.274 ms

Remote clock offset: 1.781 ms

Below is generated by plot.py at 2018-08-02 04:19:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.63 Mbit/s

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

Loss rate: 0.29%

-- Flow 1:

Average throughput: 42.62 Mbit/s

95th percentile per-packet one-way delay: 38.084 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 27.78 Mbit/s

95th percentile per-packet one-way delay: 40.141 ms

Loss rate: 0.28%

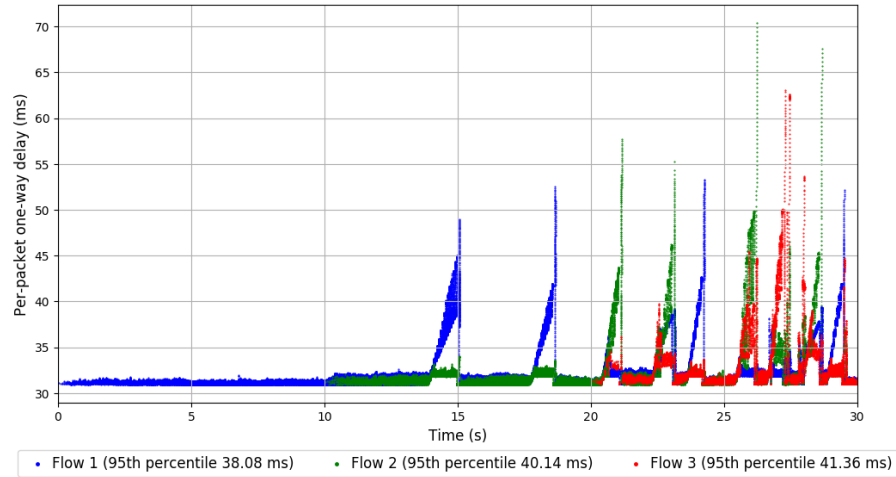
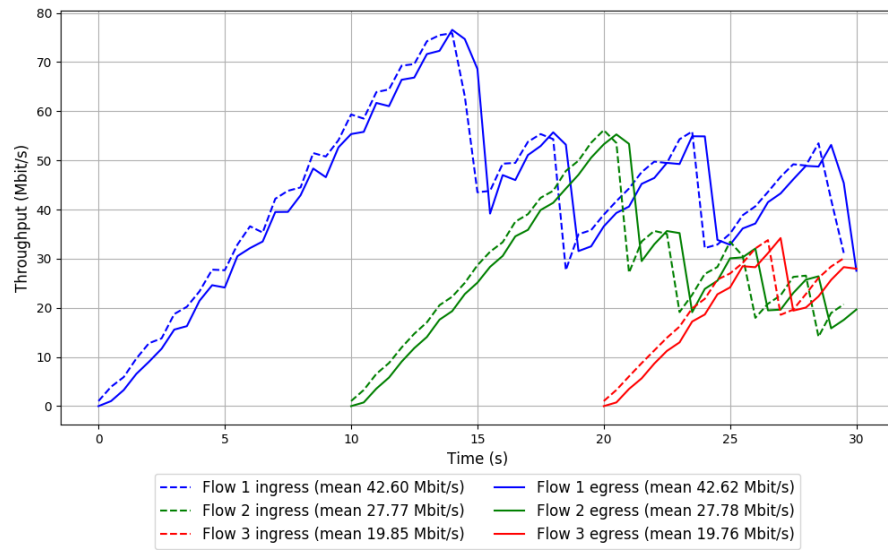
-- Flow 3:

Average throughput: 19.76 Mbit/s

95th percentile per-packet one-way delay: 41.360 ms

Loss rate: 1.08%

Run 6: Report of LEDBAT — Data Link

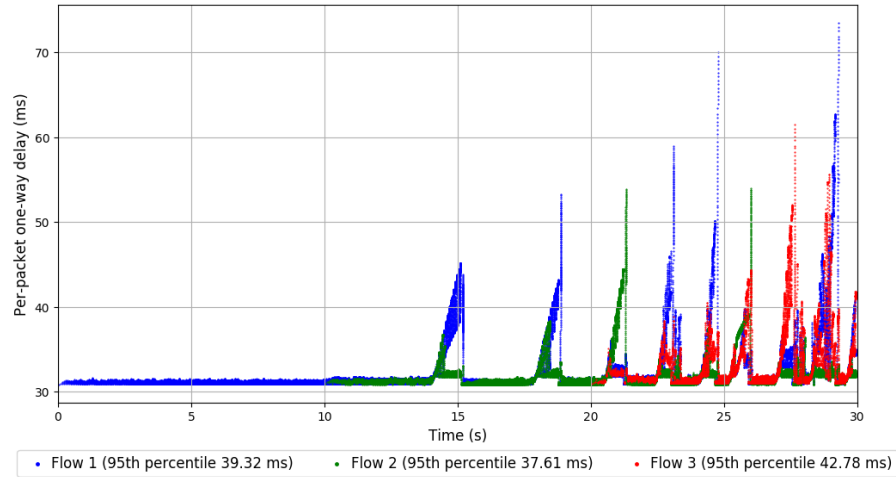
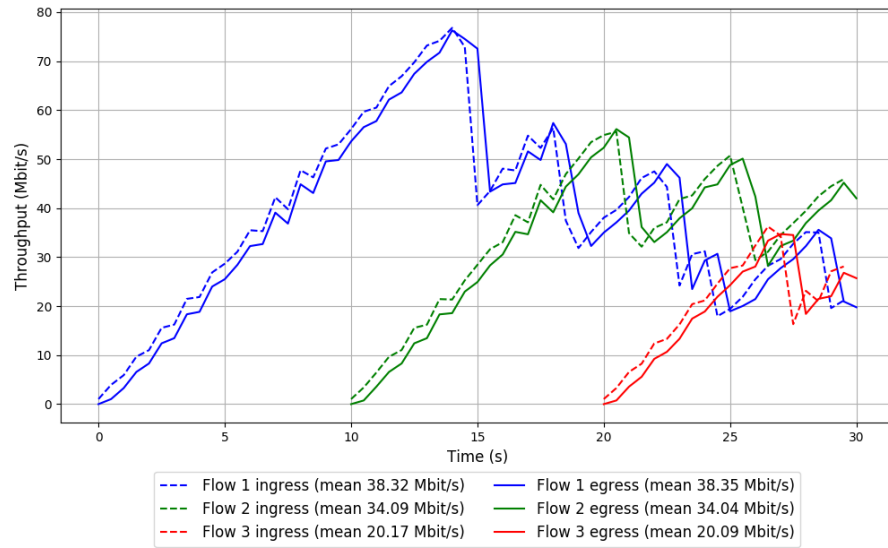


Run 7: Statistics of LEDBAT

Start at: 2018-08-02 02:55:10
End at: 2018-08-02 02:55:40
Local clock offset: -4.194 ms
Remote clock offset: 1.988 ms

Below is generated by plot.py at 2018-08-02 04:19:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 67.65 Mbit/s
95th percentile per-packet one-way delay: 38.876 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 38.35 Mbit/s
95th percentile per-packet one-way delay: 39.323 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 34.04 Mbit/s
95th percentile per-packet one-way delay: 37.611 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 20.09 Mbit/s
95th percentile per-packet one-way delay: 42.779 ms
Loss rate: 1.03%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-08-02 03:18:01

End at: 2018-08-02 03:18:31

Local clock offset: -5.565 ms

Remote clock offset: 2.3 ms

Below is generated by plot.py at 2018-08-02 04:19:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 62.33 Mbit/s

95th percentile per-packet one-way delay: 40.592 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 33.52 Mbit/s

95th percentile per-packet one-way delay: 37.734 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 32.11 Mbit/s

95th percentile per-packet one-way delay: 44.632 ms

Loss rate: 0.25%

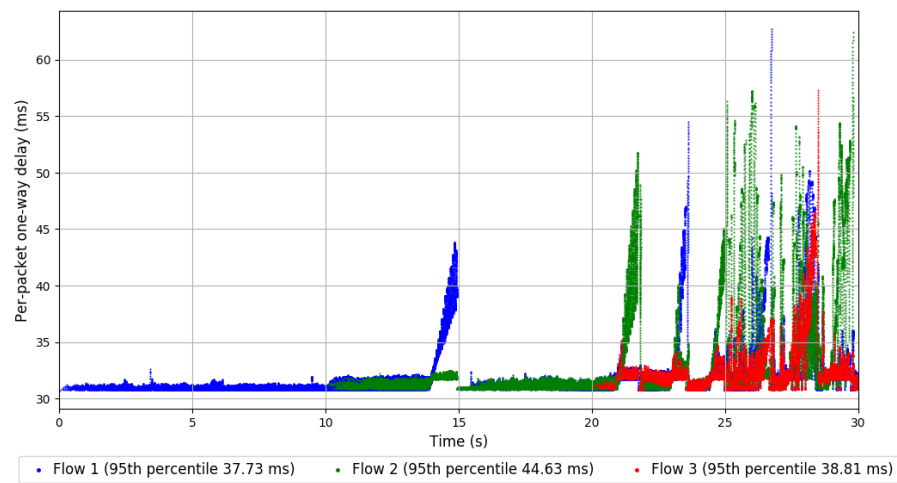
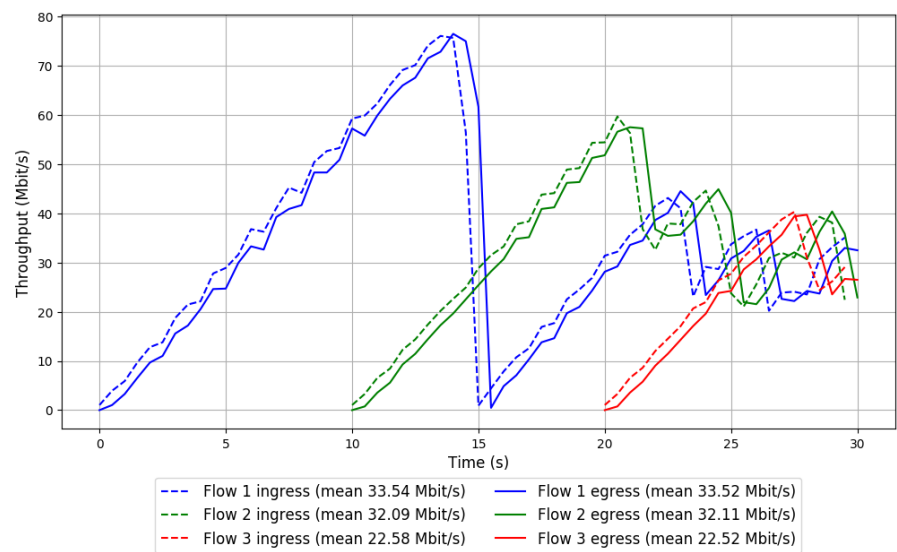
-- Flow 3:

Average throughput: 22.52 Mbit/s

95th percentile per-packet one-way delay: 38.813 ms

Loss rate: 0.91%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-08-02 03:41:09

End at: 2018-08-02 03:41:39

Local clock offset: 0.643 ms

Remote clock offset: 2.925 ms

Below is generated by plot.py at 2018-08-02 04:19:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.56 Mbit/s

95th percentile per-packet one-way delay: 38.540 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 42.40 Mbit/s

95th percentile per-packet one-way delay: 38.103 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 29.07 Mbit/s

95th percentile per-packet one-way delay: 39.117 ms

Loss rate: 0.44%

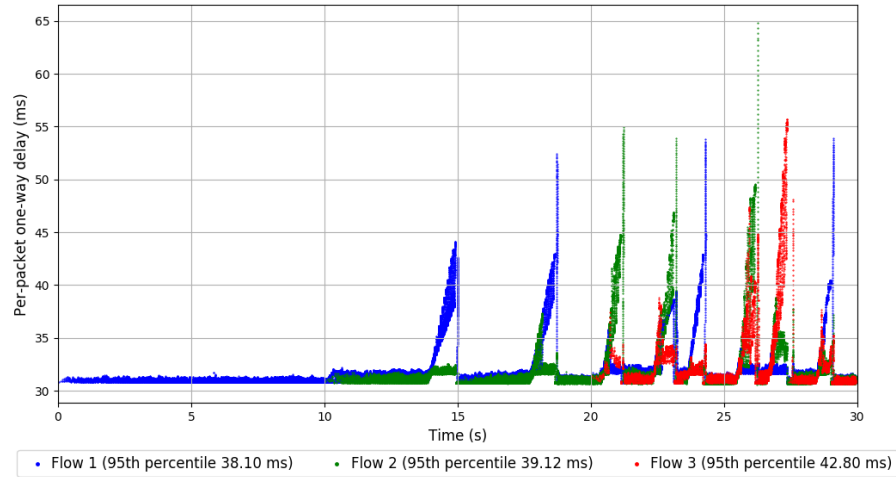
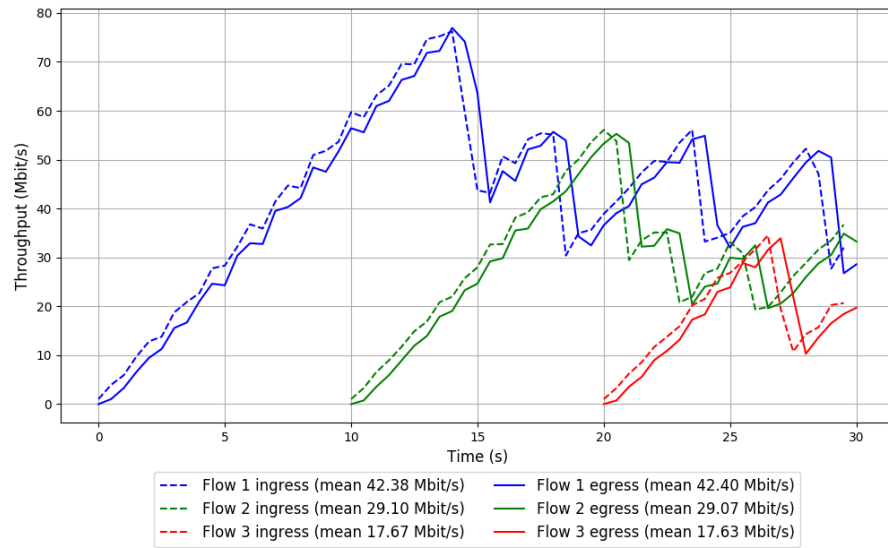
-- Flow 3:

Average throughput: 17.63 Mbit/s

95th percentile per-packet one-way delay: 42.795 ms

Loss rate: 0.91%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-08-02 04:04:12

End at: 2018-08-02 04:04:42

Local clock offset: 1.492 ms

Remote clock offset: 1.53 ms

Below is generated by plot.py at 2018-08-02 04:19:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.20 Mbit/s

95th percentile per-packet one-way delay: 39.078 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 39.81 Mbit/s

95th percentile per-packet one-way delay: 39.320 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 31.10 Mbit/s

95th percentile per-packet one-way delay: 38.579 ms

Loss rate: 0.40%

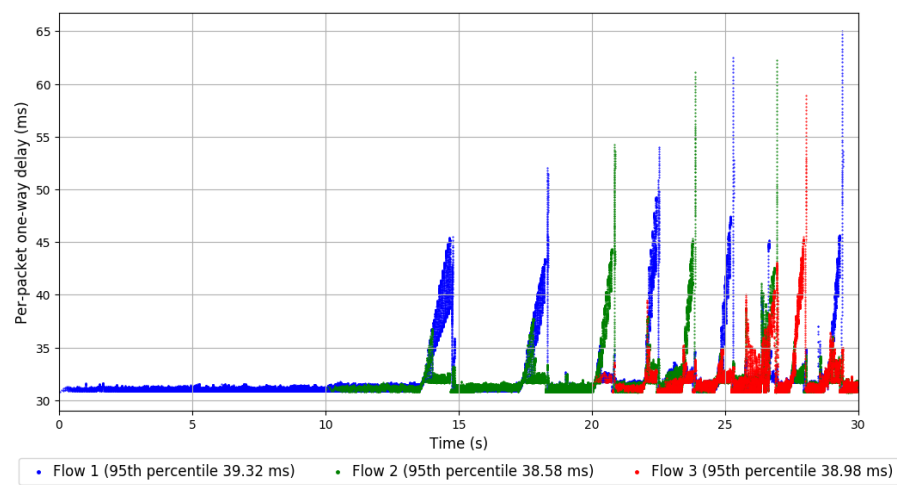
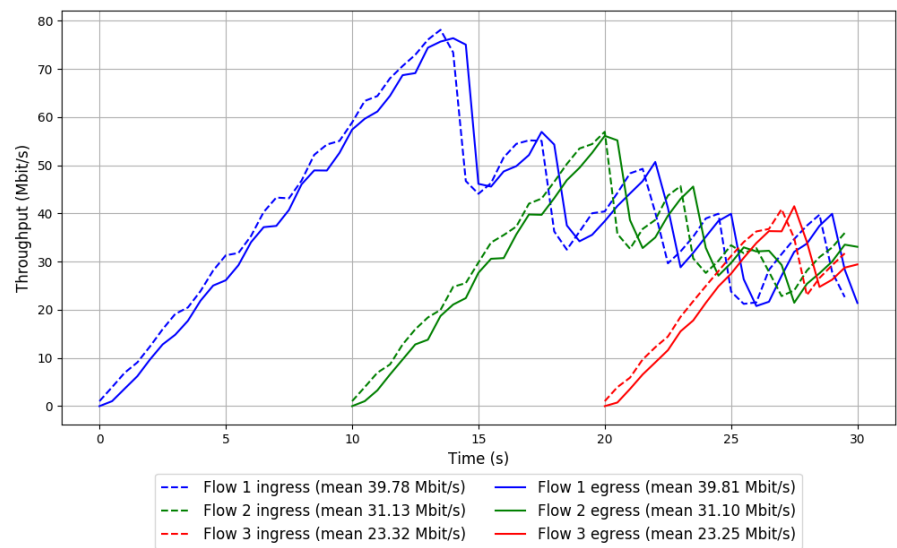
-- Flow 3:

Average throughput: 23.25 Mbit/s

95th percentile per-packet one-way delay: 38.976 ms

Loss rate: 0.94%

Run 10: Report of LEDBAT — Data Link

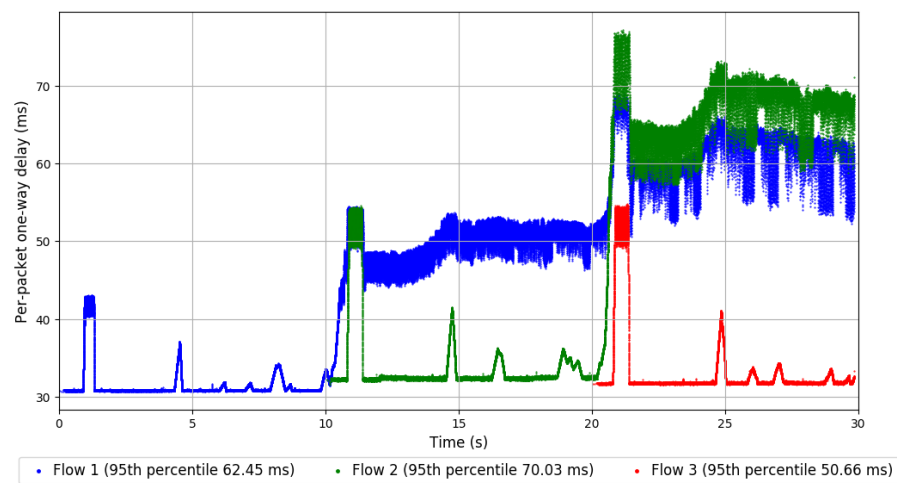
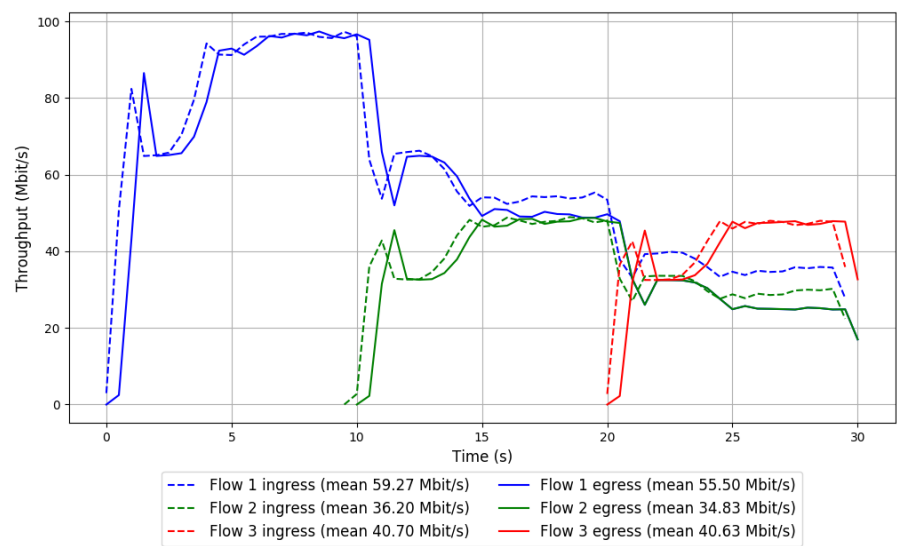


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-08-02 00:24:53
End at: 2018-08-02 00:25:24
Local clock offset: -0.125 ms
Remote clock offset: 2.449 ms

# Below is generated by plot.py at 2018-08-02 04:20:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.00 Mbit/s
95th percentile per-packet one-way delay: 66.296 ms
Loss rate: 5.17%
-- Flow 1:
Average throughput: 55.50 Mbit/s
95th percentile per-packet one-way delay: 62.449 ms
Loss rate: 6.59%
-- Flow 2:
Average throughput: 34.83 Mbit/s
95th percentile per-packet one-way delay: 70.032 ms
Loss rate: 4.10%
-- Flow 3:
Average throughput: 40.63 Mbit/s
95th percentile per-packet one-way delay: 50.661 ms
Loss rate: 0.82%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-08-02 00:47:43

End at: 2018-08-02 00:48:13

Local clock offset: 0.205 ms

Remote clock offset: 1.285 ms

Below is generated by plot.py at 2018-08-02 04:20:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.53 Mbit/s

95th percentile per-packet one-way delay: 65.518 ms

Loss rate: 3.05%

-- Flow 1:

Average throughput: 62.51 Mbit/s

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

Loss rate: 2.81%

-- Flow 2:

Average throughput: 34.85 Mbit/s

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

Loss rate: 4.31%

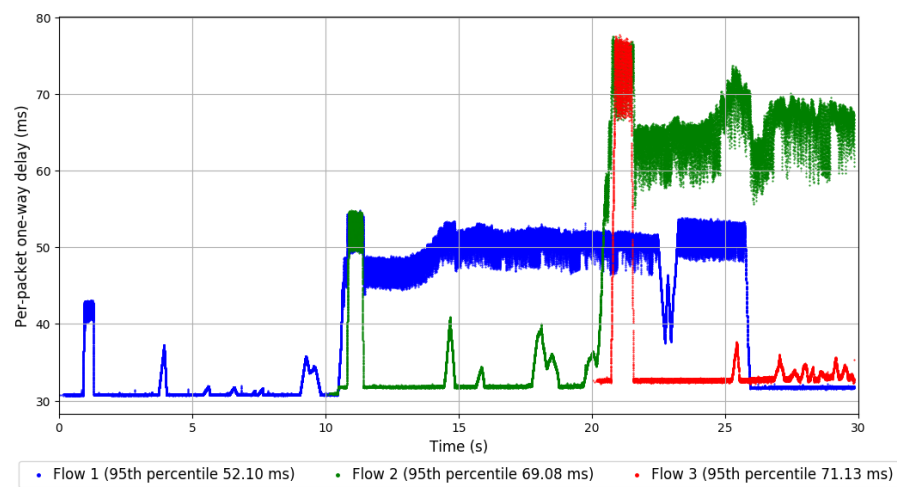
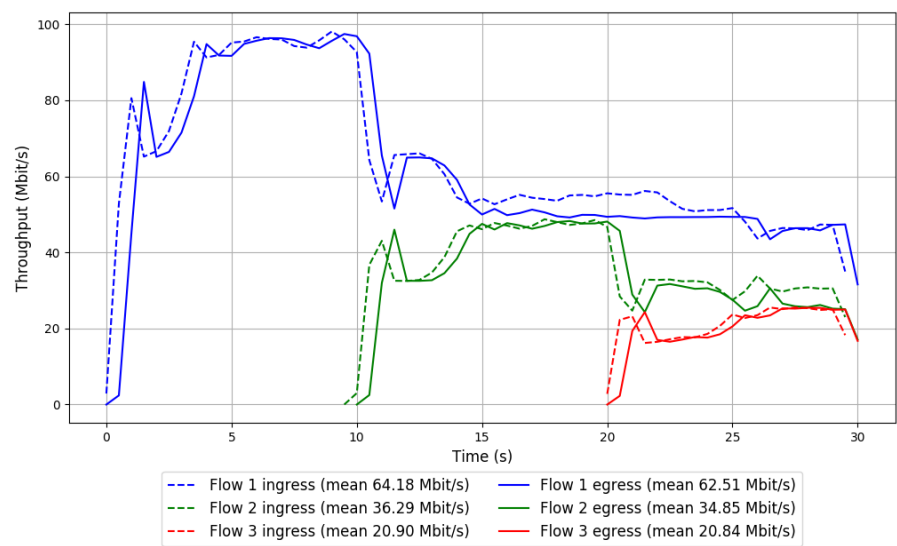
-- Flow 3:

Average throughput: 20.84 Mbit/s

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

Loss rate: 0.90%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-08-02 01:10:39

End at: 2018-08-02 01:11:09

Local clock offset: 0.279 ms

Remote clock offset: 1.922 ms

Below is generated by plot.py at 2018-08-02 04:20:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.05 Mbit/s

95th percentile per-packet one-way delay: 68.895 ms

Loss rate: 2.75%

-- Flow 1:

Average throughput: 54.15 Mbit/s

95th percentile per-packet one-way delay: 68.672 ms

Loss rate: 2.44%

-- Flow 2:

Average throughput: 35.02 Mbit/s

95th percentile per-packet one-way delay: 70.146 ms

Loss rate: 4.29%

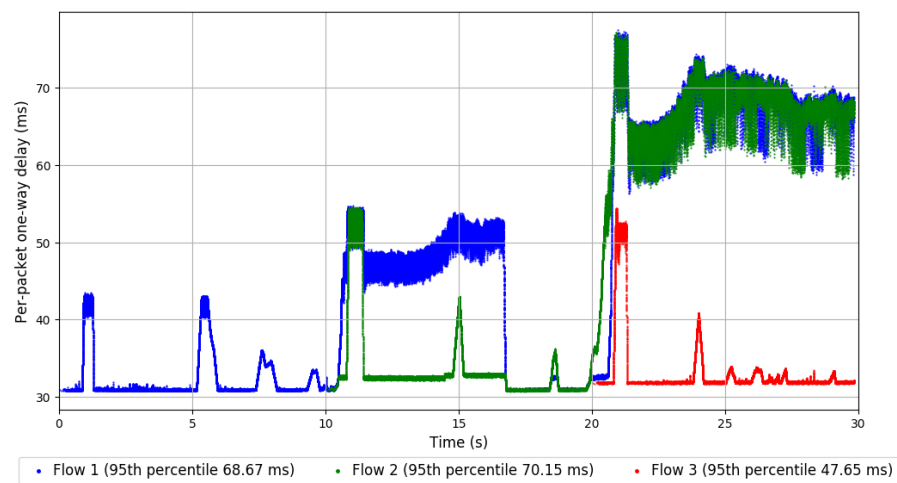
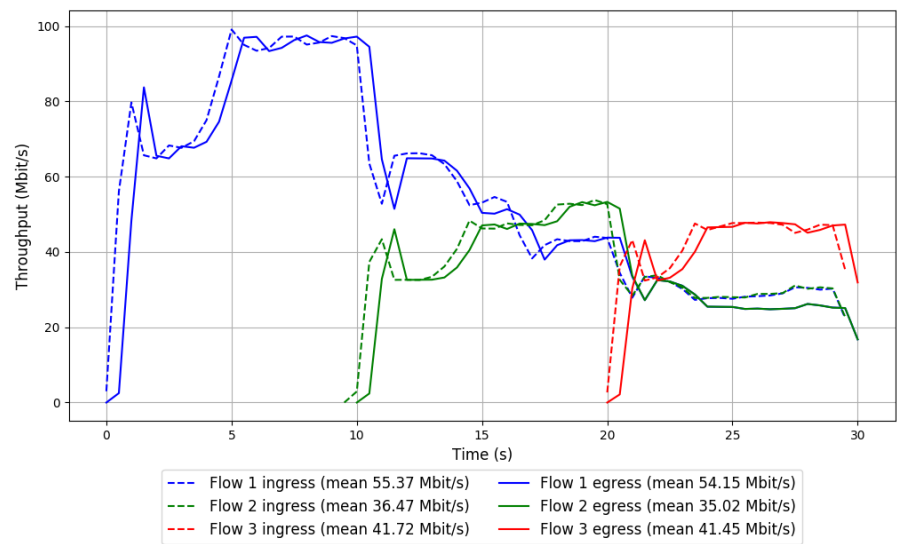
-- Flow 3:

Average throughput: 41.45 Mbit/s

95th percentile per-packet one-way delay: 47.649 ms

Loss rate: 1.31%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-08-02 01:33:45

End at: 2018-08-02 01:34:15

Local clock offset: 0.25 ms

Remote clock offset: 2.679 ms

Below is generated by plot.py at 2018-08-02 04:20:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.32 Mbit/s

95th percentile per-packet one-way delay: 62.412 ms

Loss rate: 5.29%

-- Flow 1:

Average throughput: 58.00 Mbit/s

95th percentile per-packet one-way delay: 58.025 ms

Loss rate: 6.29%

-- Flow 2:

Average throughput: 36.77 Mbit/s

95th percentile per-packet one-way delay: 63.561 ms

Loss rate: 3.97%

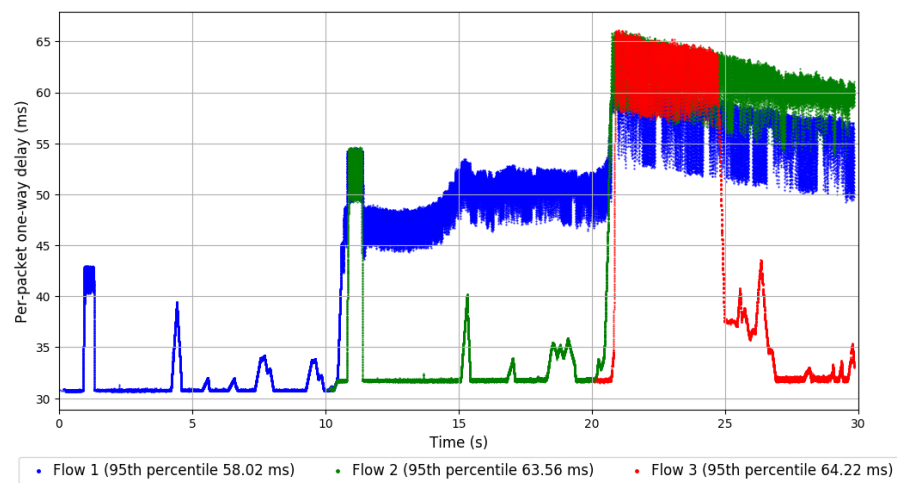
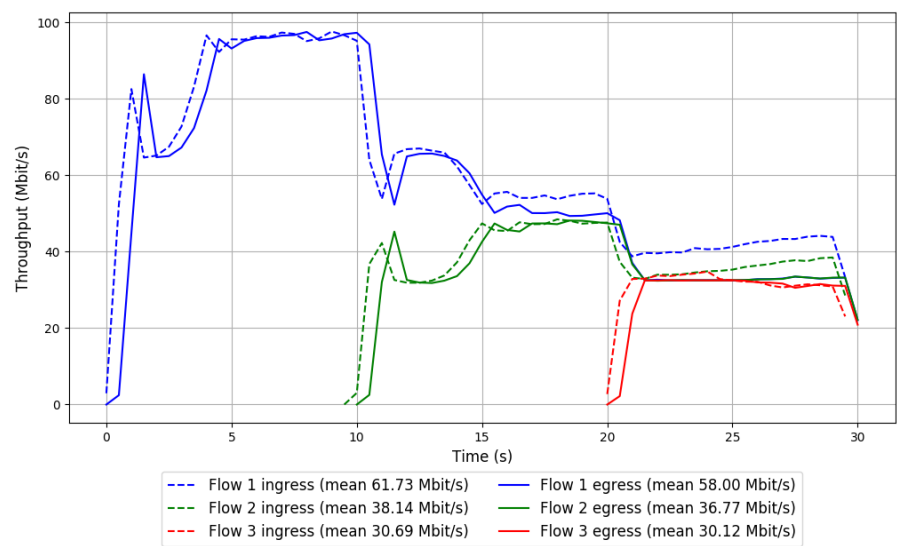
-- Flow 3:

Average throughput: 30.12 Mbit/s

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

Loss rate: 2.52%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-08-02 01:56:47

End at: 2018-08-02 01:57:17

Local clock offset: 0.107 ms

Remote clock offset: 2.372 ms

Below is generated by plot.py at 2018-08-02 04:20:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.52 Mbit/s

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

Loss rate: 2.84%

-- Flow 1:

Average throughput: 56.57 Mbit/s

95th percentile per-packet one-way delay: 62.318 ms

Loss rate: 2.41%

-- Flow 2:

Average throughput: 37.69 Mbit/s

95th percentile per-packet one-way delay: 63.500 ms

Loss rate: 3.93%

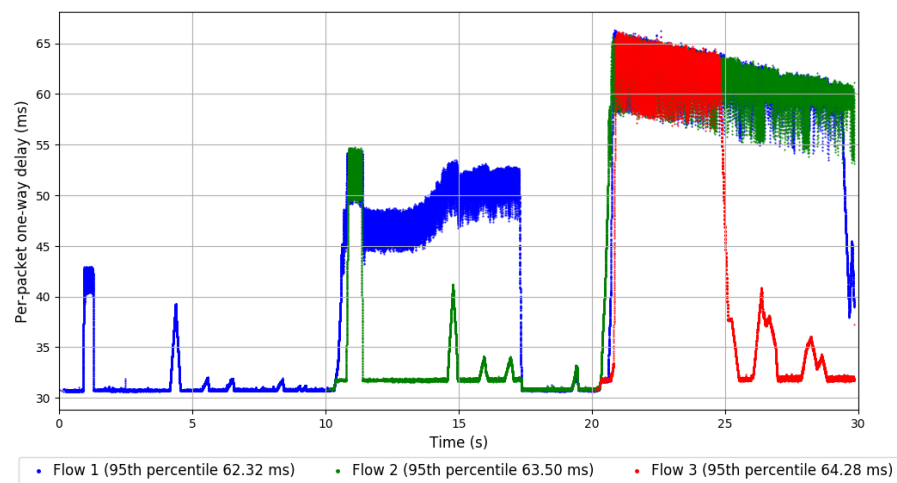
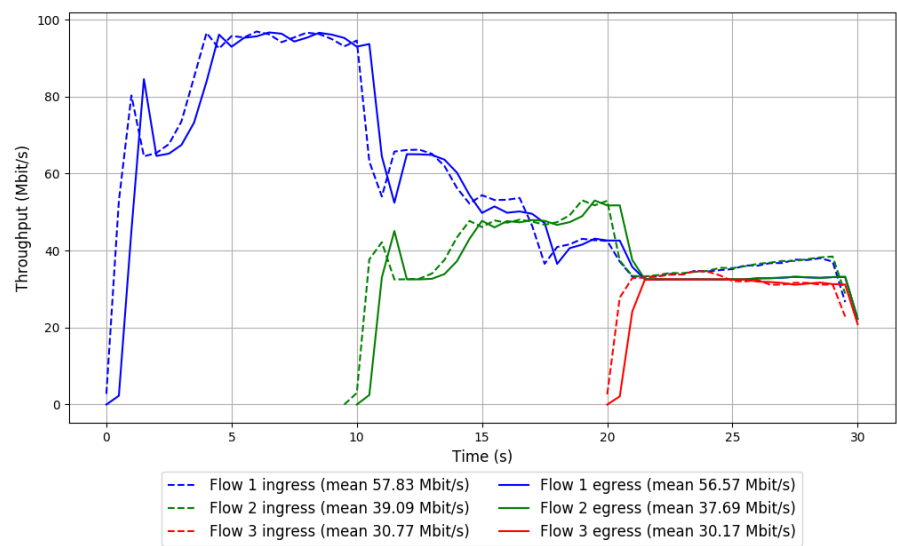
-- Flow 3:

Average throughput: 30.17 Mbit/s

95th percentile per-packet one-way delay: 64.279 ms

Loss rate: 2.55%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-08-02 02:19:52

End at: 2018-08-02 02:20:22

Local clock offset: -0.114 ms

Remote clock offset: 1.927 ms

Below is generated by plot.py at 2018-08-02 04:20:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.67 Mbit/s

95th percentile per-packet one-way delay: 61.672 ms

Loss rate: 5.56%

-- Flow 1:

Average throughput: 58.27 Mbit/s

95th percentile per-packet one-way delay: 58.000 ms

Loss rate: 6.62%

-- Flow 2:

Average throughput: 37.00 Mbit/s

95th percentile per-packet one-way delay: 63.493 ms

Loss rate: 3.97%

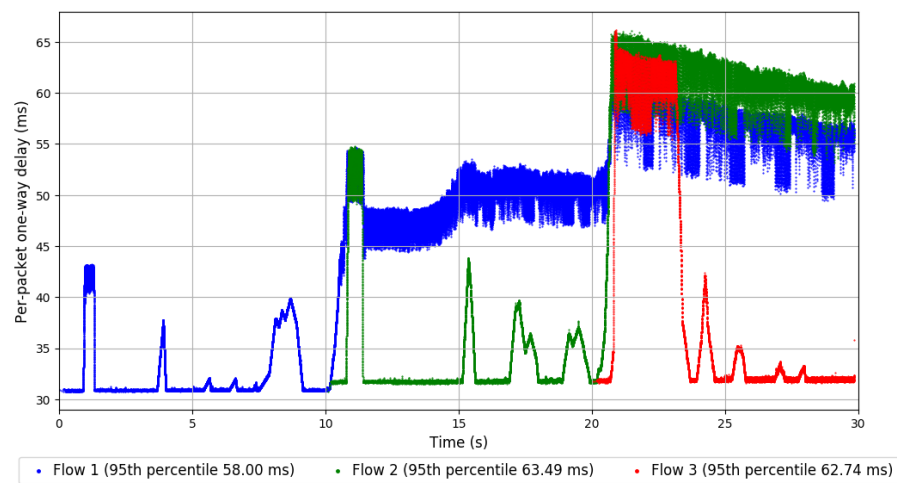
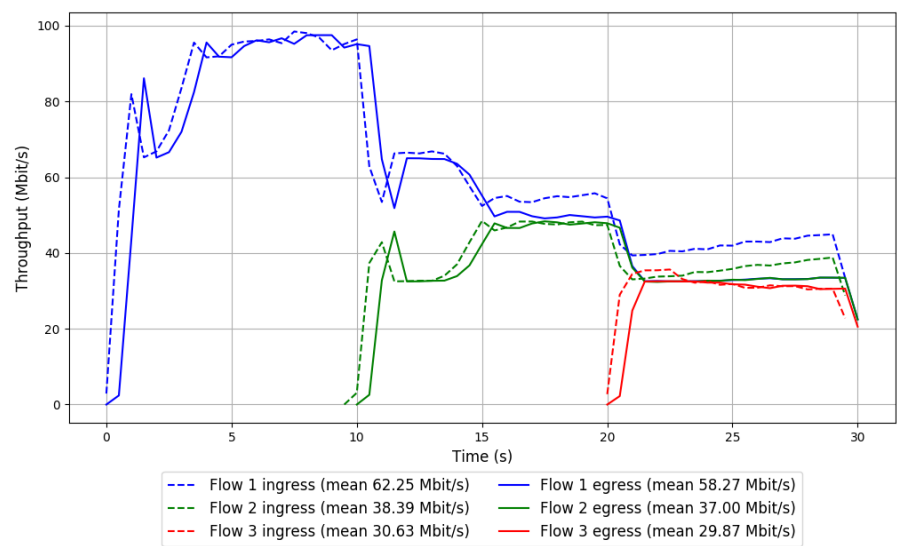
-- Flow 3:

Average throughput: 29.87 Mbit/s

95th percentile per-packet one-way delay: 62.737 ms

Loss rate: 3.09%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-08-02 02:43:05

End at: 2018-08-02 02:43:35

Local clock offset: -3.455 ms

Remote clock offset: 1.651 ms

Below is generated by plot.py at 2018-08-02 04:20:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.07 Mbit/s

95th percentile per-packet one-way delay: 66.730 ms

Loss rate: 3.18%

-- Flow 1:

Average throughput: 62.25 Mbit/s

95th percentile per-packet one-way delay: 52.111 ms

Loss rate: 3.00%

-- Flow 2:

Average throughput: 34.22 Mbit/s

95th percentile per-packet one-way delay: 71.436 ms

Loss rate: 4.26%

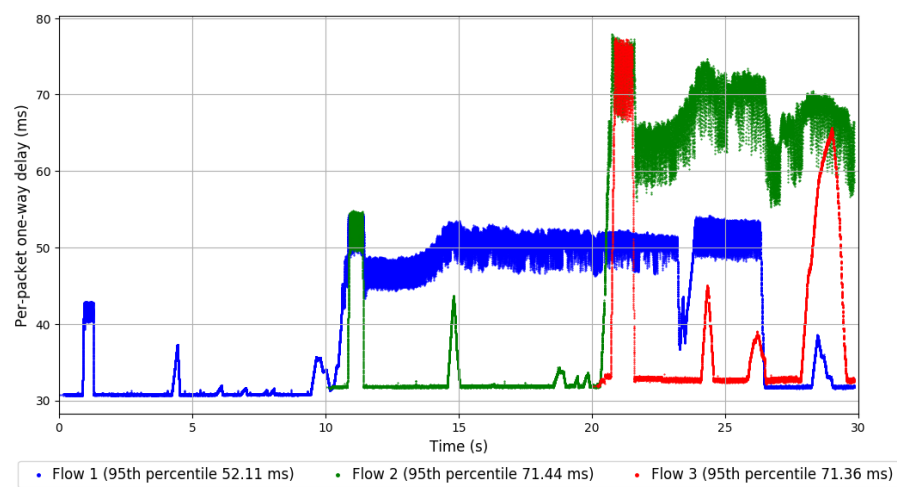
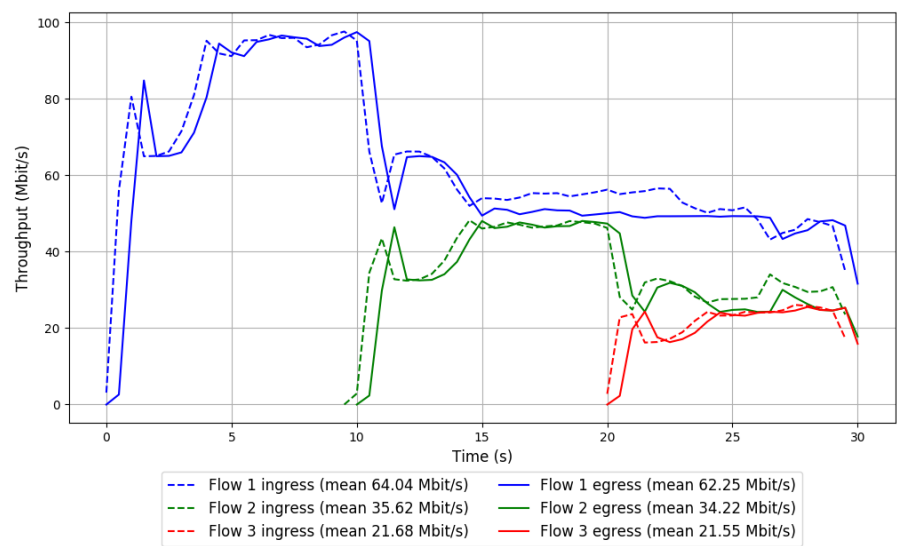
-- Flow 3:

Average throughput: 21.55 Mbit/s

95th percentile per-packet one-way delay: 71.360 ms

Loss rate: 1.27%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-08-02 03:05:57

End at: 2018-08-02 03:06:27

Local clock offset: -4.773 ms

Remote clock offset: 2.043 ms

Below is generated by plot.py at 2018-08-02 04:20:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.17 Mbit/s

95th percentile per-packet one-way delay: 62.752 ms

Loss rate: 4.94%

-- Flow 1:

Average throughput: 57.71 Mbit/s

95th percentile per-packet one-way delay: 58.577 ms

Loss rate: 6.08%

-- Flow 2:

Average throughput: 36.84 Mbit/s

95th percentile per-packet one-way delay: 63.776 ms

Loss rate: 3.13%

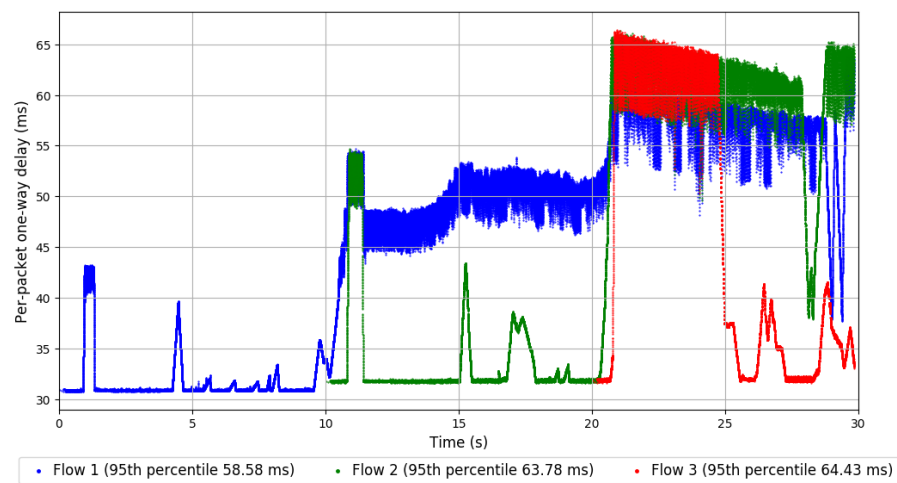
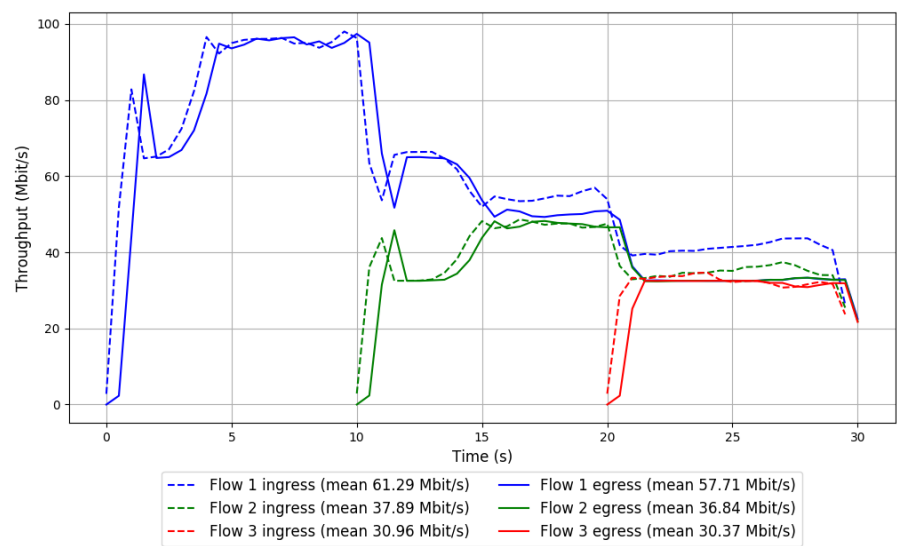
-- Flow 3:

Average throughput: 30.37 Mbit/s

95th percentile per-packet one-way delay: 64.430 ms

Loss rate: 2.54%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-08-02 03:29:02

End at: 2018-08-02 03:29:32

Local clock offset: -2.259 ms

Remote clock offset: 2.703 ms

Below is generated by plot.py at 2018-08-02 04:21:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.74 Mbit/s

95th percentile per-packet one-way delay: 65.991 ms

Loss rate: 3.63%

-- Flow 1:

Average throughput: 63.03 Mbit/s

95th percentile per-packet one-way delay: 51.925 ms

Loss rate: 3.65%

-- Flow 2:

Average throughput: 34.75 Mbit/s

95th percentile per-packet one-way delay: 69.388 ms

Loss rate: 4.30%

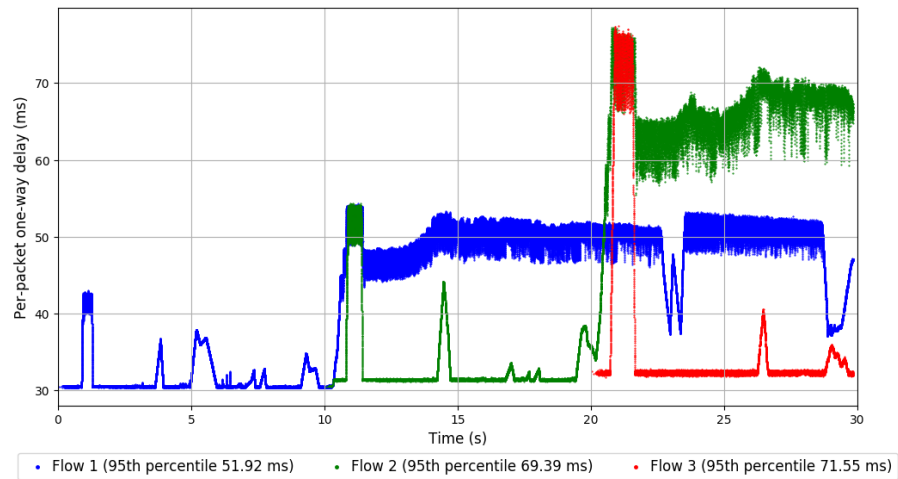
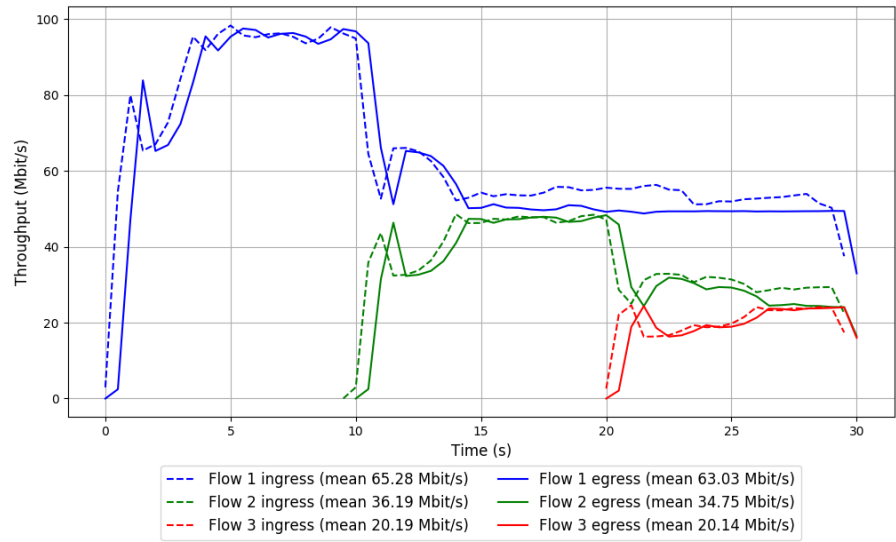
-- Flow 3:

Average throughput: 20.14 Mbit/s

95th percentile per-packet one-way delay: 71.546 ms

Loss rate: 0.92%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-08-02 03:51:58

End at: 2018-08-02 03:52:28

Local clock offset: 2.056 ms

Remote clock offset: 2.723 ms

Below is generated by plot.py at 2018-08-02 04:21:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.97 Mbit/s

95th percentile per-packet one-way delay: 62.895 ms

Loss rate: 2.88%

-- Flow 1:

Average throughput: 56.70 Mbit/s

95th percentile per-packet one-way delay: 62.205 ms

Loss rate: 2.04%

-- Flow 2:

Average throughput: 38.11 Mbit/s

95th percentile per-packet one-way delay: 62.873 ms

Loss rate: 4.64%

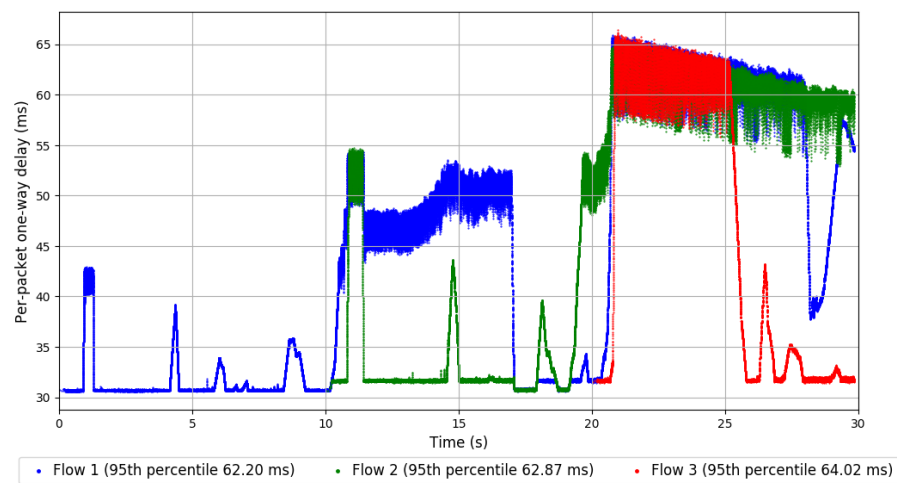
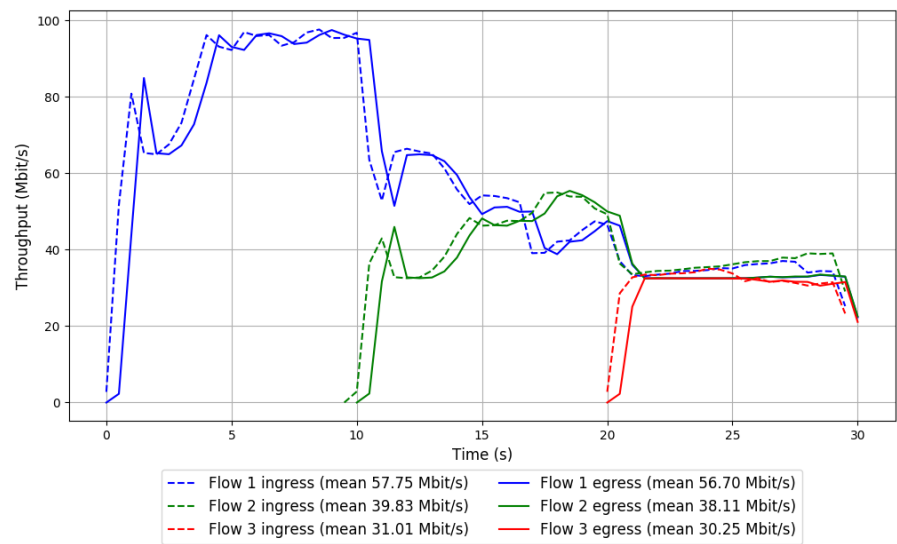
-- Flow 3:

Average throughput: 30.25 Mbit/s

95th percentile per-packet one-way delay: 64.021 ms

Loss rate: 3.08%

Run 10: Report of PCC-Allegro — Data Link

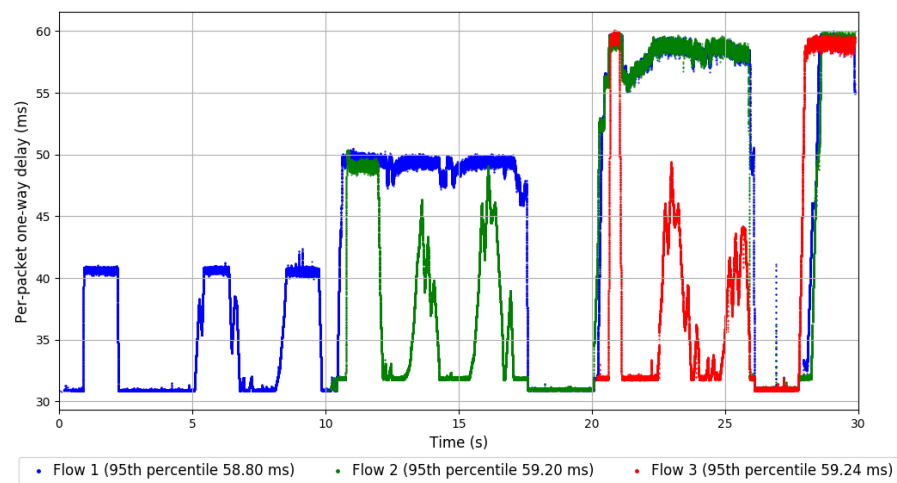
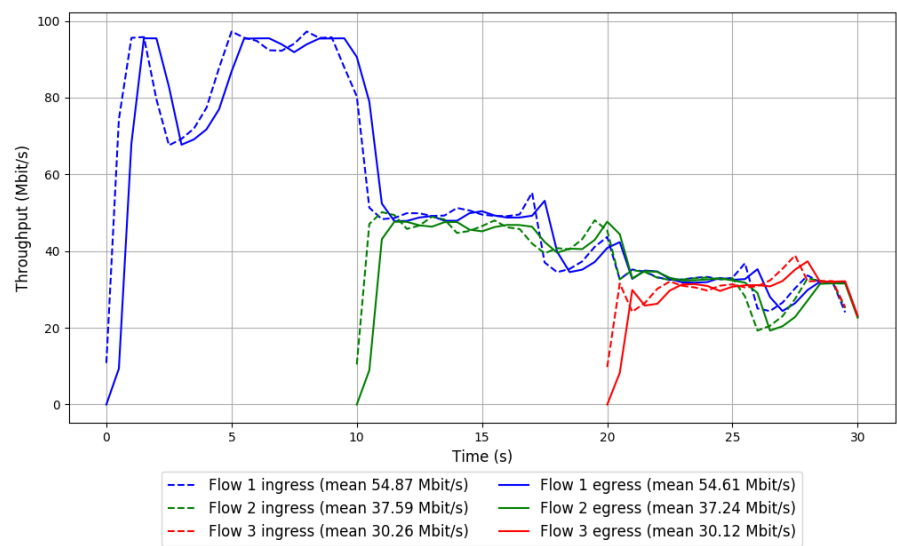


```
Run 1: Statistics of PCC-Expr

Start at: 2018-08-02 00:19:29
End at: 2018-08-02 00:19:59
Local clock offset: -0.192 ms
Remote clock offset: 2.294 ms

# Below is generated by plot.py at 2018-08-02 04:22:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.25 Mbit/s
95th percentile per-packet one-way delay: 59.044 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 54.61 Mbit/s
95th percentile per-packet one-way delay: 58.805 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 37.24 Mbit/s
95th percentile per-packet one-way delay: 59.197 ms
Loss rate: 1.25%
-- Flow 3:
Average throughput: 30.12 Mbit/s
95th percentile per-packet one-way delay: 59.240 ms
Loss rate: 1.12%
```


Run 1: Report of PCC-Expr — Data Link

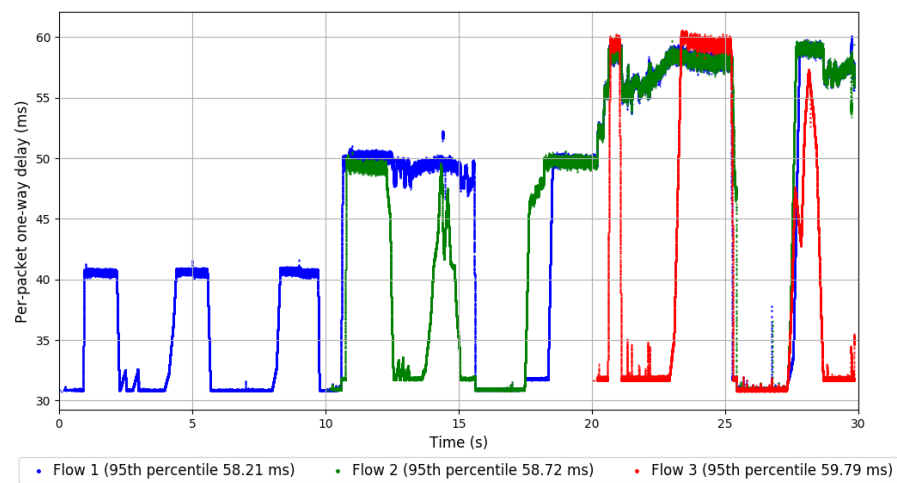
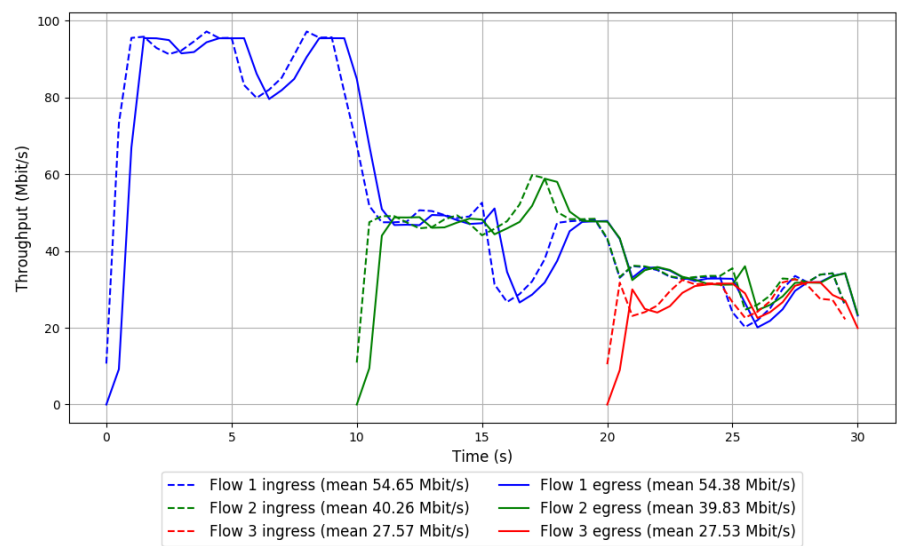


```
Run 2: Statistics of PCC-Expr

Start at: 2018-08-02 00:42:18
End at: 2018-08-02 00:42:48
Local clock offset: 0.156 ms
Remote clock offset: 1.32 ms

# Below is generated by plot.py at 2018-08-02 04:22:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.90 Mbit/s
95th percentile per-packet one-way delay: 58.821 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 54.38 Mbit/s
95th percentile per-packet one-way delay: 58.213 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 39.83 Mbit/s
95th percentile per-packet one-way delay: 58.723 ms
Loss rate: 1.41%
-- Flow 3:
Average throughput: 27.53 Mbit/s
95th percentile per-packet one-way delay: 59.790 ms
Loss rate: 0.81%
```

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-08-02 01:05:14

End at: 2018-08-02 01:05:44

Local clock offset: 0.253 ms

Remote clock offset: 1.636 ms

Below is generated by plot.py at 2018-08-02 04:22:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.86 Mbit/s

95th percentile per-packet one-way delay: 59.056 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 52.63 Mbit/s

95th percentile per-packet one-way delay: 58.393 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 40.53 Mbit/s

95th percentile per-packet one-way delay: 59.009 ms

Loss rate: 1.39%

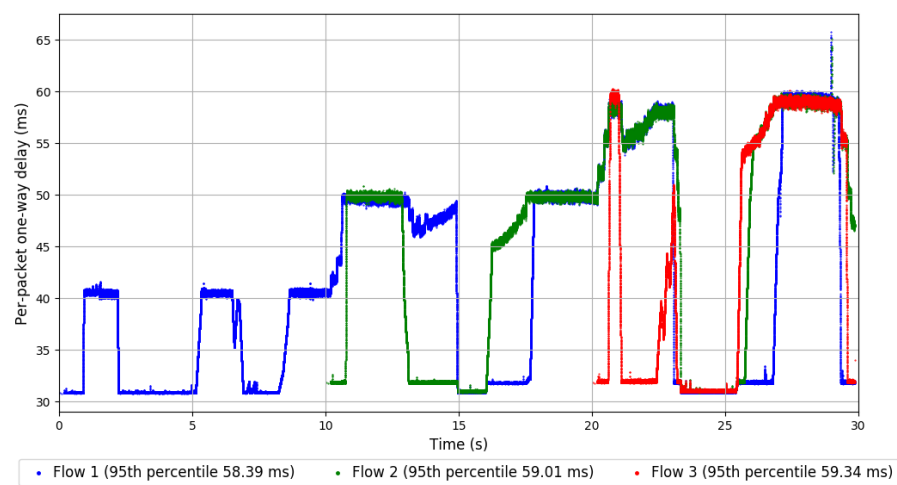
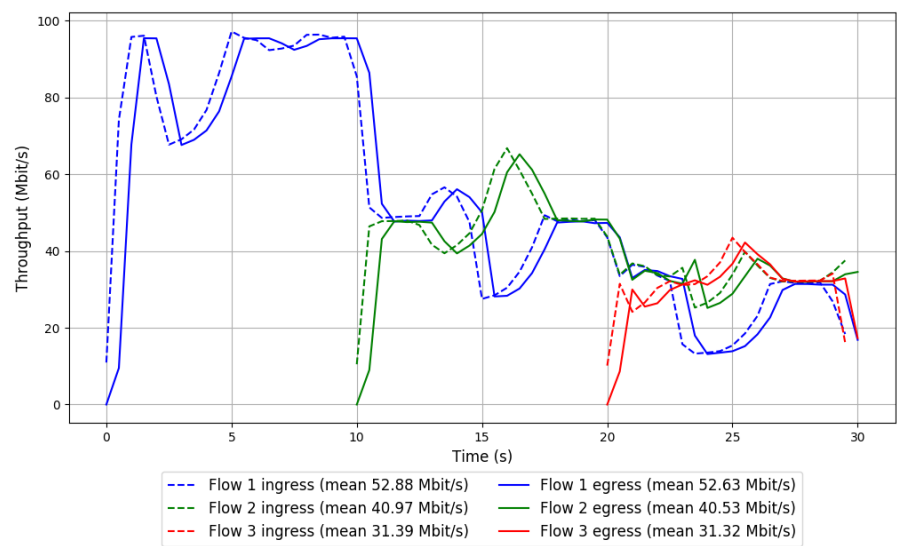
-- Flow 3:

Average throughput: 31.32 Mbit/s

95th percentile per-packet one-way delay: 59.342 ms

Loss rate: 0.88%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-08-02 01:28:21

End at: 2018-08-02 01:28:51

Local clock offset: 0.233 ms

Remote clock offset: 2.516 ms

Below is generated by plot.py at 2018-08-02 04:22:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.81 Mbit/s

95th percentile per-packet one-way delay: 58.813 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 53.82 Mbit/s

95th percentile per-packet one-way delay: 58.011 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 36.82 Mbit/s

95th percentile per-packet one-way delay: 58.521 ms

Loss rate: 0.95%

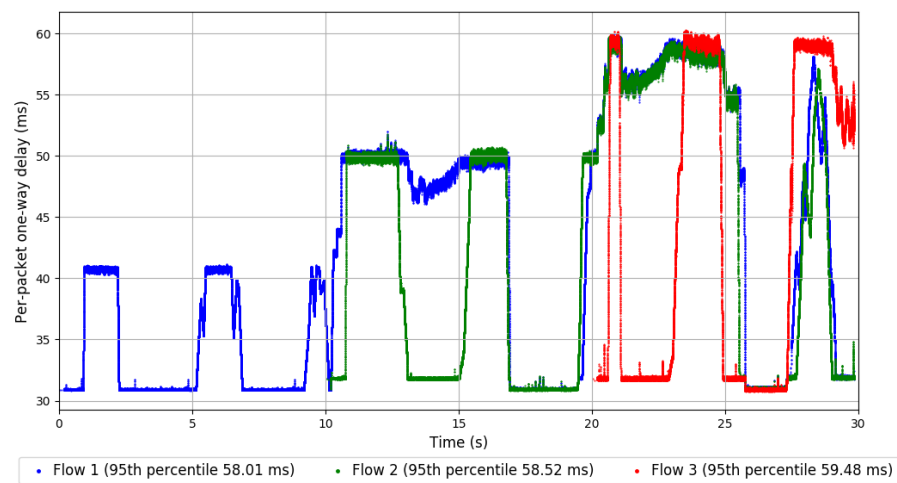
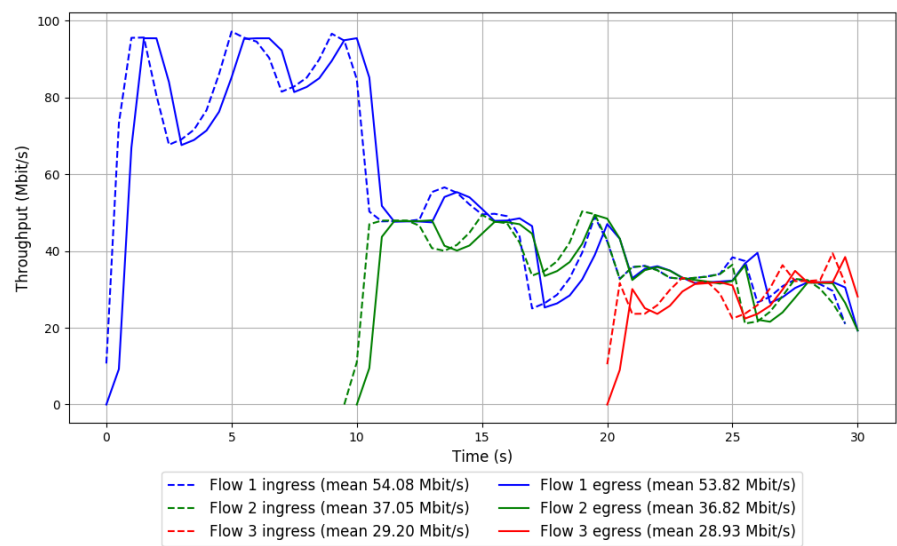
-- Flow 3:

Average throughput: 28.93 Mbit/s

95th percentile per-packet one-way delay: 59.475 ms

Loss rate: 1.65%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-08-02 01:51:22

End at: 2018-08-02 01:51:52

Local clock offset: 0.118 ms

Remote clock offset: 2.303 ms

Below is generated by plot.py at 2018-08-02 04:22:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.93 Mbit/s

95th percentile per-packet one-way delay: 67.358 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 53.45 Mbit/s

95th percentile per-packet one-way delay: 67.590 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 34.38 Mbit/s

95th percentile per-packet one-way delay: 67.730 ms

Loss rate: 1.43%

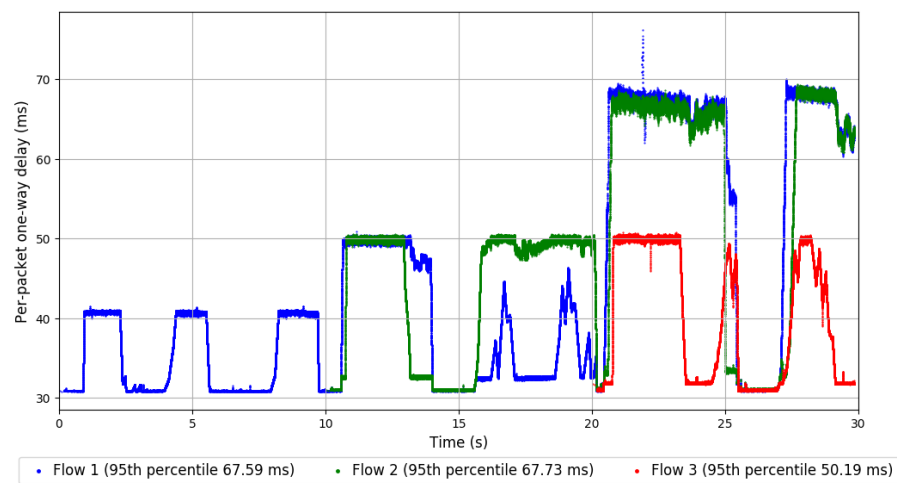
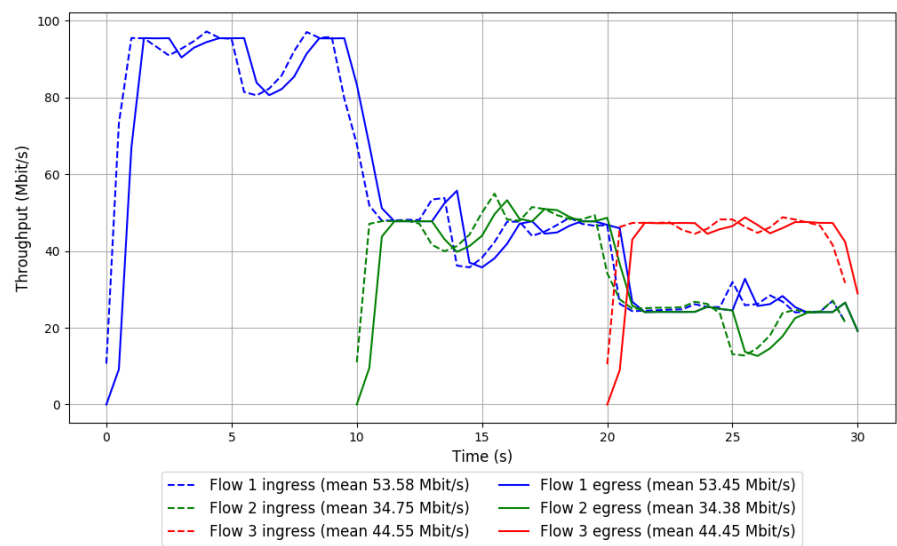
-- Flow 3:

Average throughput: 44.45 Mbit/s

95th percentile per-packet one-way delay: 50.193 ms

Loss rate: 0.88%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-08-02 02:14:25

End at: 2018-08-02 02:14:55

Local clock offset: -0.034 ms

Remote clock offset: 2.055 ms

Below is generated by plot.py at 2018-08-02 04:22:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.63 Mbit/s

95th percentile per-packet one-way delay: 65.660 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 54.41 Mbit/s

95th percentile per-packet one-way delay: 63.421 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 34.30 Mbit/s

95th percentile per-packet one-way delay: 67.610 ms

Loss rate: 0.82%

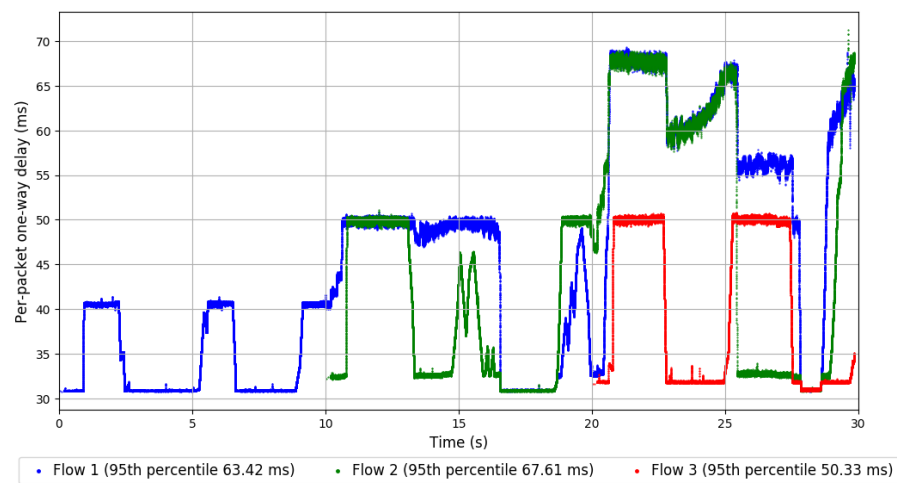
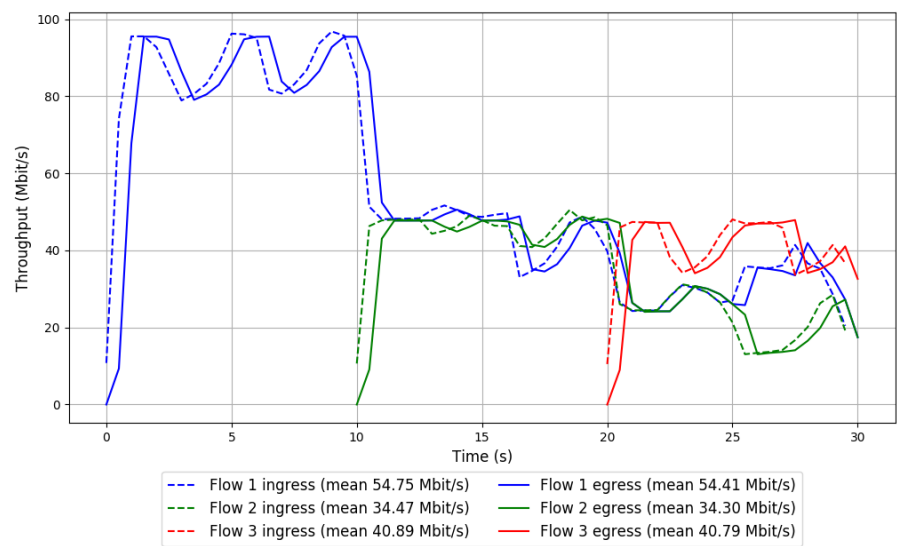
-- Flow 3:

Average throughput: 40.79 Mbit/s

95th percentile per-packet one-way delay: 50.328 ms

Loss rate: 0.91%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-08-02 02:37:37

End at: 2018-08-02 02:38:07

Local clock offset: -3.004 ms

Remote clock offset: 1.703 ms

Below is generated by plot.py at 2018-08-02 04:23:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.16 Mbit/s

95th percentile per-packet one-way delay: 66.952 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 56.86 Mbit/s

95th percentile per-packet one-way delay: 50.018 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 35.72 Mbit/s

95th percentile per-packet one-way delay: 67.743 ms

Loss rate: 1.12%

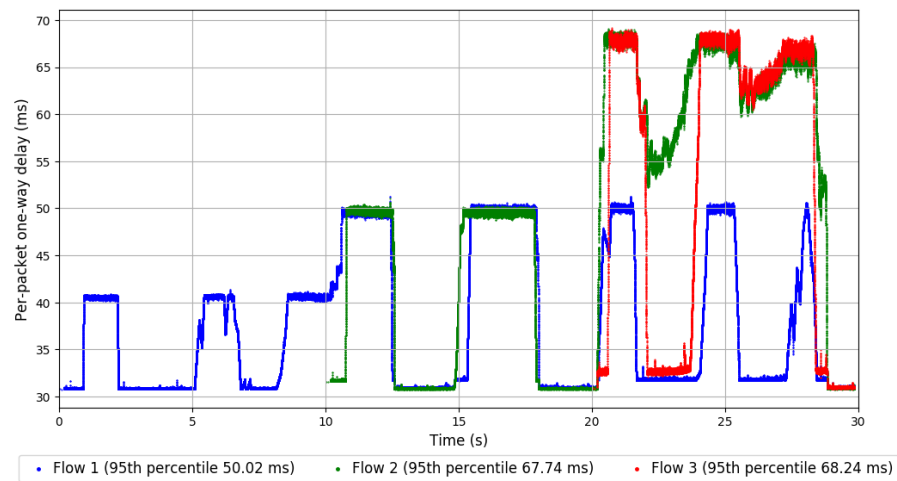
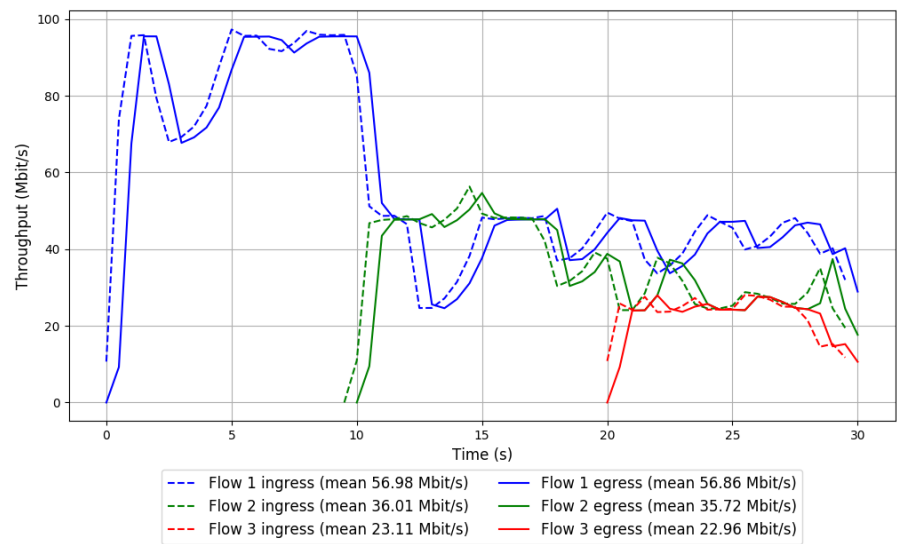
-- Flow 3:

Average throughput: 22.96 Mbit/s

95th percentile per-packet one-way delay: 68.236 ms

Loss rate: 1.32%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-08-02 03:00:34

End at: 2018-08-02 03:01:04

Local clock offset: -4.572 ms

Remote clock offset: 2.076 ms

Below is generated by plot.py at 2018-08-02 04:23:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.22 Mbit/s

95th percentile per-packet one-way delay: 58.876 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 54.37 Mbit/s

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

Loss rate: 0.68%

-- Flow 2:

Average throughput: 38.05 Mbit/s

95th percentile per-packet one-way delay: 58.894 ms

Loss rate: 0.85%

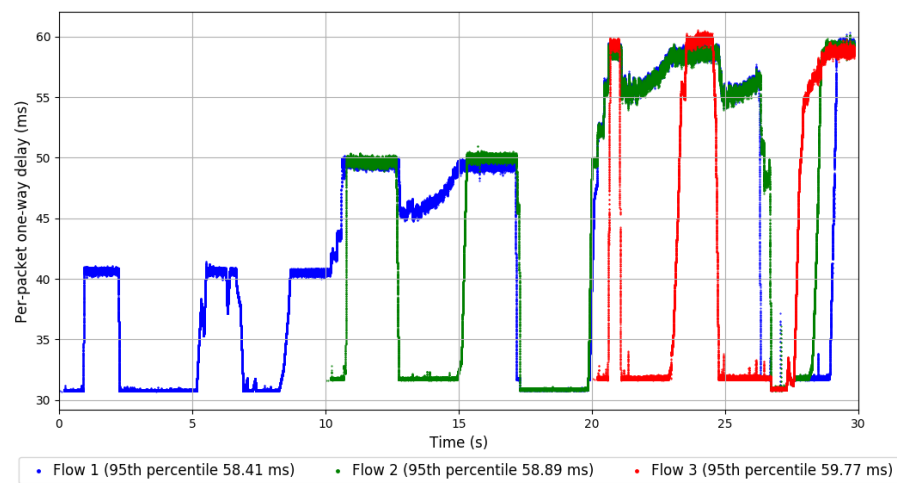
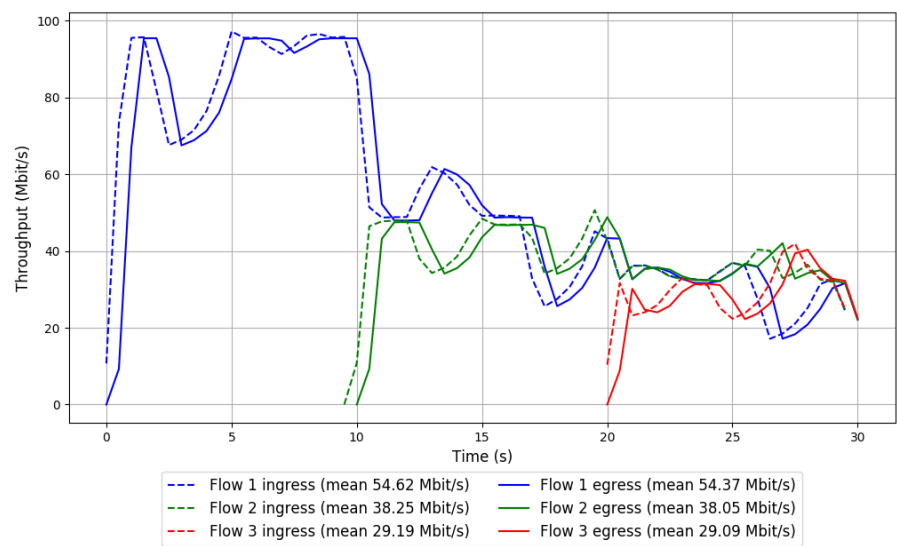
-- Flow 3:

Average throughput: 29.09 Mbit/s

95th percentile per-packet one-way delay: 59.769 ms

Loss rate: 1.13%

Run 8: Report of PCC-Expr — Data Link

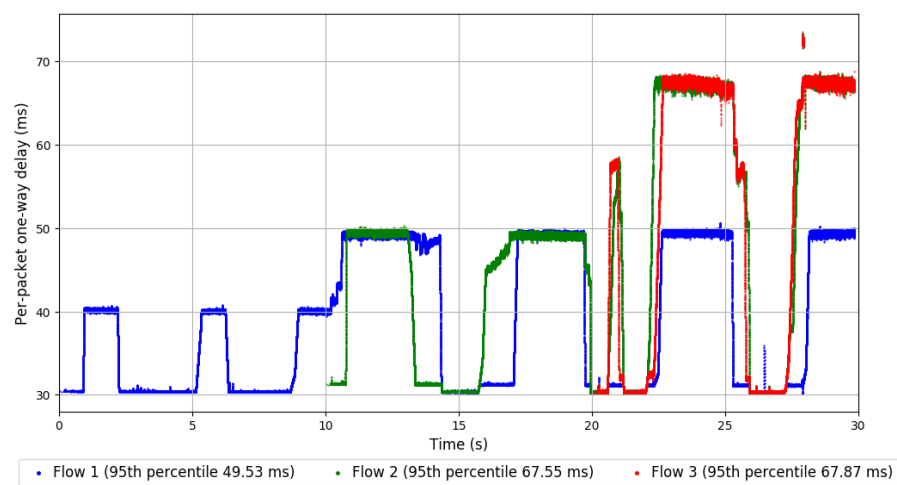
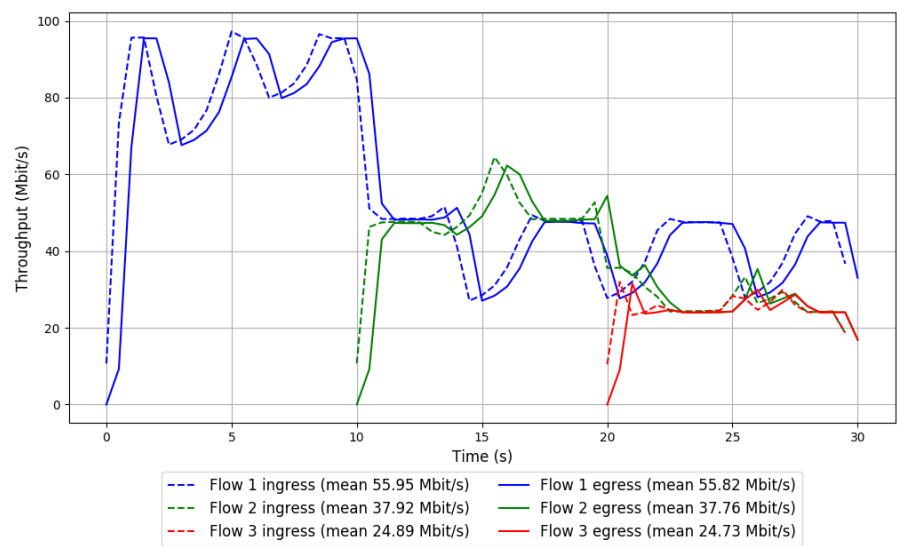


```
Run 9: Statistics of PCC-Expr

Start at: 2018-08-02 03:23:32
End at: 2018-08-02 03:24:02
Local clock offset: -4.969 ms
Remote clock offset: 2.426 ms

# Below is generated by plot.py at 2018-08-02 04:24:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.04 Mbit/s
95th percentile per-packet one-way delay: 67.297 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 55.82 Mbit/s
95th percentile per-packet one-way delay: 49.530 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 37.76 Mbit/s
95th percentile per-packet one-way delay: 67.551 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 24.73 Mbit/s
95th percentile per-packet one-way delay: 67.869 ms
Loss rate: 1.32%
```


Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-08-02 03:46:32

End at: 2018-08-02 03:47:02

Local clock offset: 1.407 ms

Remote clock offset: 2.785 ms

Below is generated by plot.py at 2018-08-02 04:24:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.58 Mbit/s

95th percentile per-packet one-way delay: 64.104 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 57.14 Mbit/s

95th percentile per-packet one-way delay: 50.063 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 37.19 Mbit/s

95th percentile per-packet one-way delay: 66.550 ms

Loss rate: 0.96%

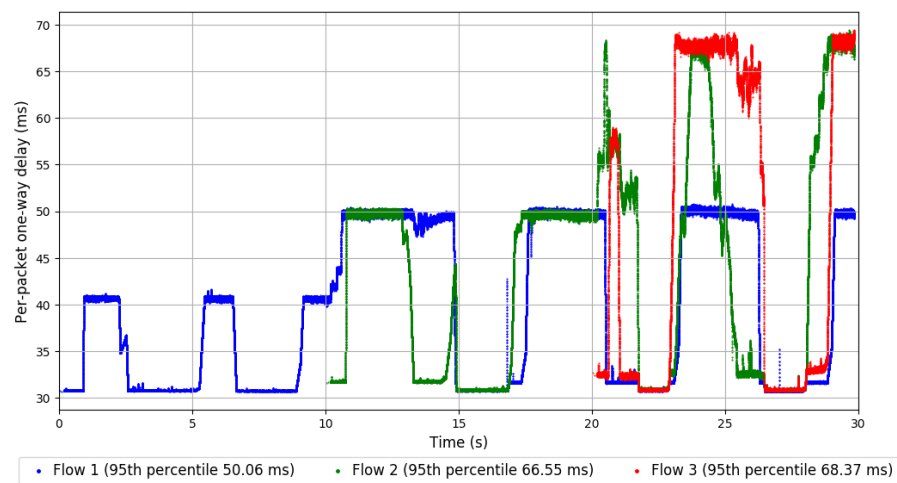
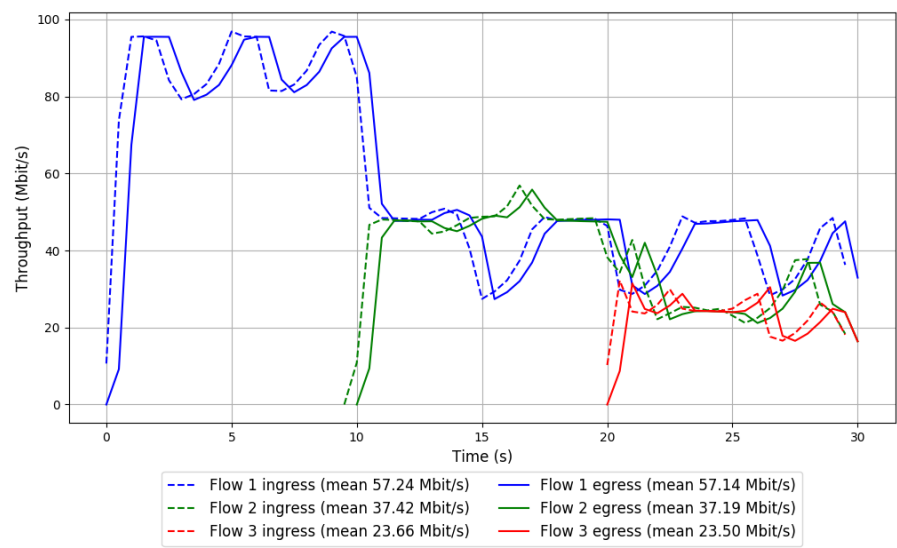
-- Flow 3:

Average throughput: 23.50 Mbit/s

95th percentile per-packet one-way delay: 68.366 ms

Loss rate: 1.53%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-08-02 00:28:57

End at: 2018-08-02 00:29:27

Local clock offset: -0.009 ms

Remote clock offset: 2.209 ms

Below is generated by plot.py at 2018-08-02 04:24:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.80 Mbit/s

95th percentile per-packet one-way delay: 51.632 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 40.39 Mbit/s

95th percentile per-packet one-way delay: 42.412 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 43.20 Mbit/s

95th percentile per-packet one-way delay: 52.174 ms

Loss rate: 0.40%

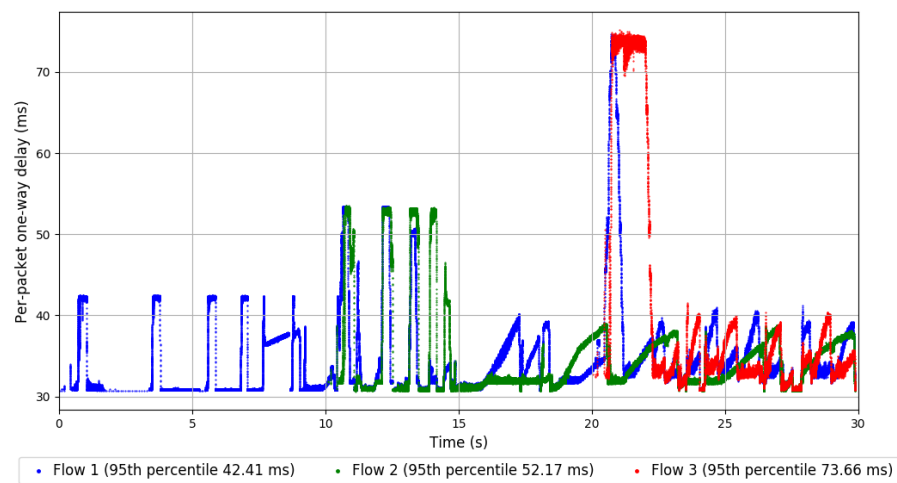
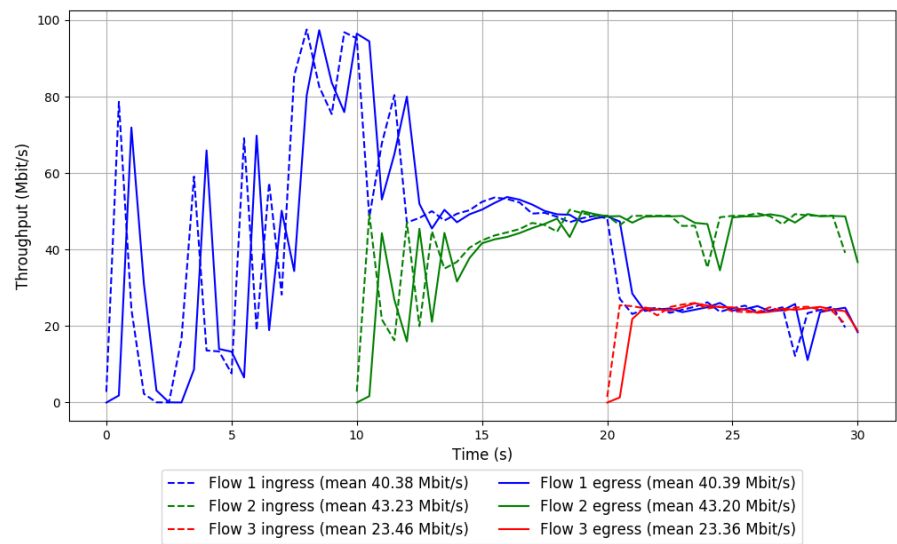
-- Flow 3:

Average throughput: 23.36 Mbit/s

95th percentile per-packet one-way delay: 73.660 ms

Loss rate: 1.09%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-08-02 00:51:47

End at: 2018-08-02 00:52:17

Local clock offset: 0.223 ms

Remote clock offset: 1.322 ms

Below is generated by plot.py at 2018-08-02 04:24:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.64 Mbit/s

95th percentile per-packet one-way delay: 48.750 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 47.70 Mbit/s

95th percentile per-packet one-way delay: 42.235 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 31.97 Mbit/s

95th percentile per-packet one-way delay: 52.940 ms

Loss rate: 0.33%

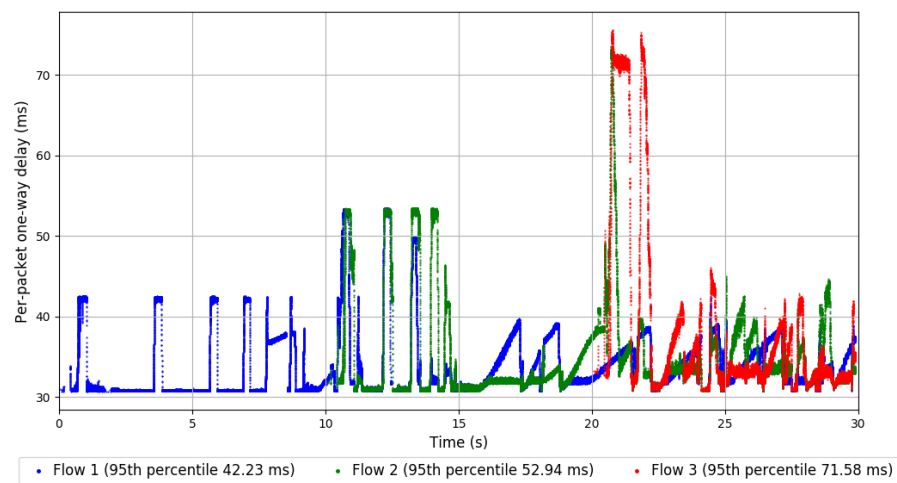
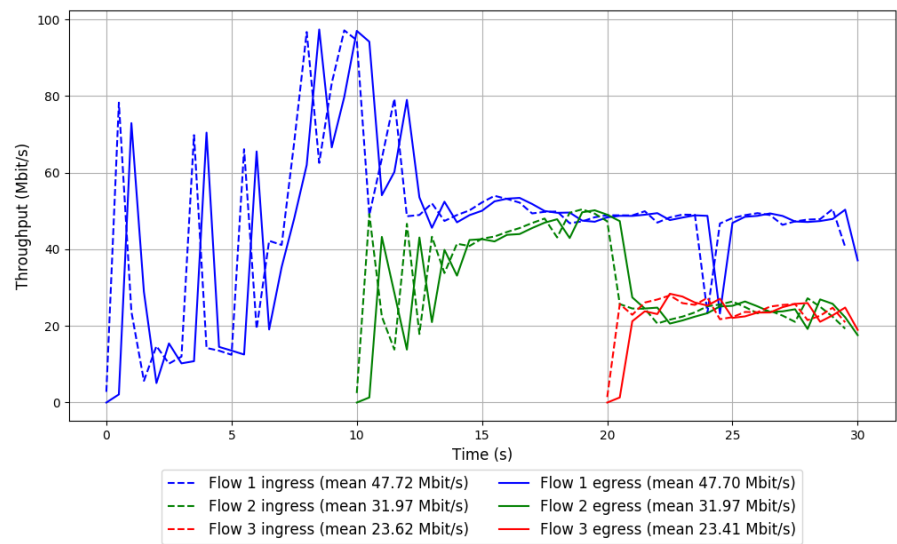
-- Flow 3:

Average throughput: 23.41 Mbit/s

95th percentile per-packet one-way delay: 71.585 ms

Loss rate: 1.56%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-08-02 01:14:44

End at: 2018-08-02 01:15:14

Local clock offset: 0.268 ms

Remote clock offset: 2.11 ms

Below is generated by plot.py at 2018-08-02 04:24:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.99 Mbit/s

95th percentile per-packet one-way delay: 51.633 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 42.61 Mbit/s

95th percentile per-packet one-way delay: 42.356 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 36.64 Mbit/s

95th percentile per-packet one-way delay: 52.874 ms

Loss rate: 0.39%

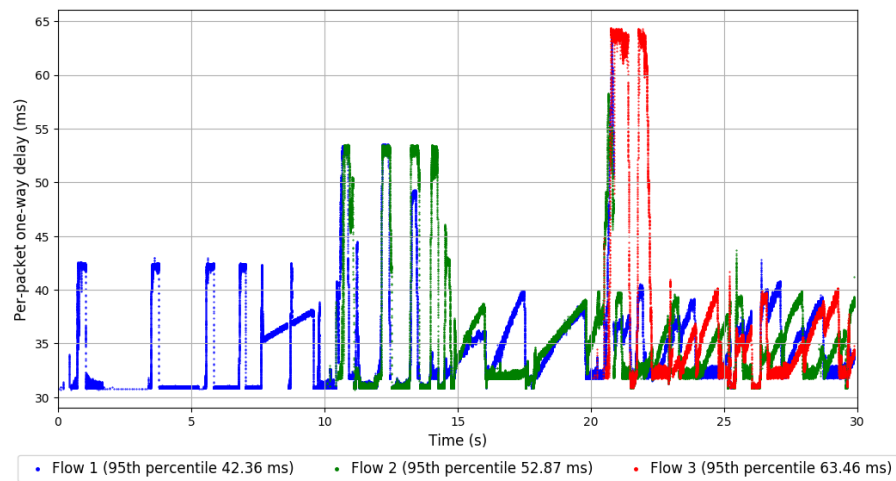
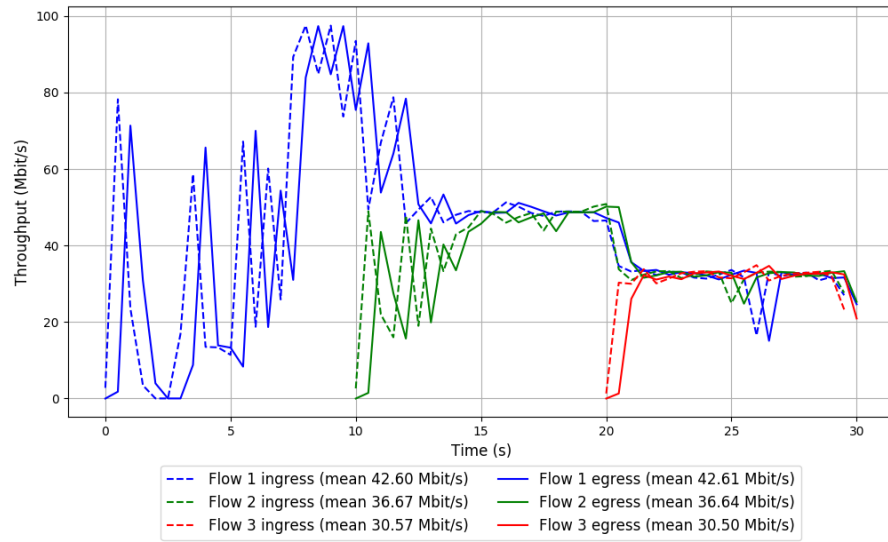
-- Flow 3:

Average throughput: 30.50 Mbit/s

95th percentile per-packet one-way delay: 63.459 ms

Loss rate: 0.88%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-08-02 01:37:50

End at: 2018-08-02 01:38:20

Local clock offset: 0.143 ms

Remote clock offset: 2.523 ms

Below is generated by plot.py at 2018-08-02 04:24:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.31 Mbit/s

95th percentile per-packet one-way delay: 49.083 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 40.61 Mbit/s

95th percentile per-packet one-way delay: 42.443 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 43.68 Mbit/s

95th percentile per-packet one-way delay: 51.589 ms

Loss rate: 0.42%

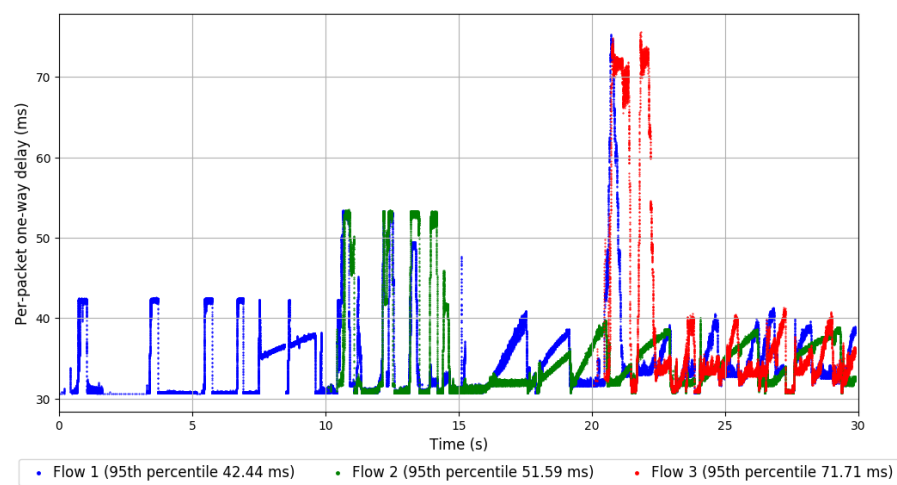
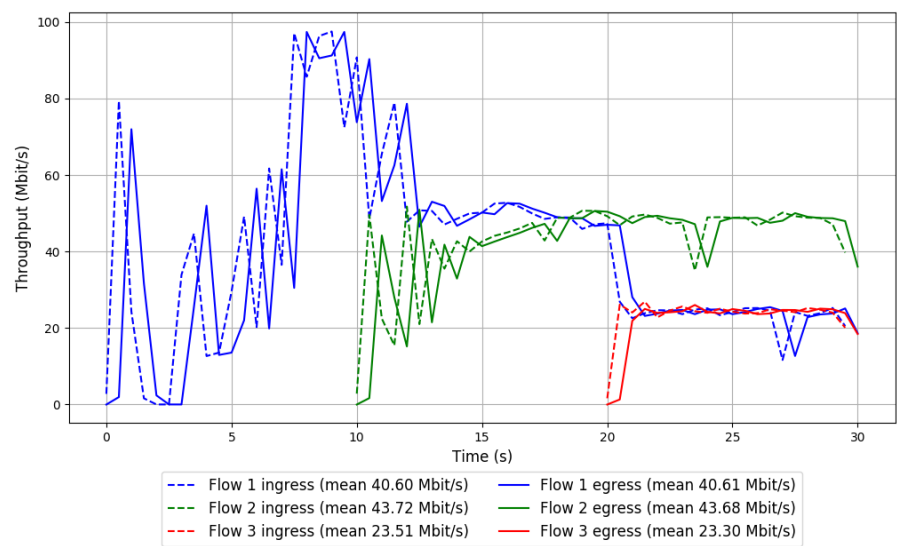
-- Flow 3:

Average throughput: 23.30 Mbit/s

95th percentile per-packet one-way delay: 71.713 ms

Loss rate: 1.55%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-08-02 02:00:51

End at: 2018-08-02 02:01:21

Local clock offset: 0.094 ms

Remote clock offset: 2.318 ms

Below is generated by plot.py at 2018-08-02 04:24:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.65 Mbit/s

95th percentile per-packet one-way delay: 52.125 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 46.83 Mbit/s

95th percentile per-packet one-way delay: 42.357 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 31.84 Mbit/s

95th percentile per-packet one-way delay: 52.931 ms

Loss rate: 0.36%

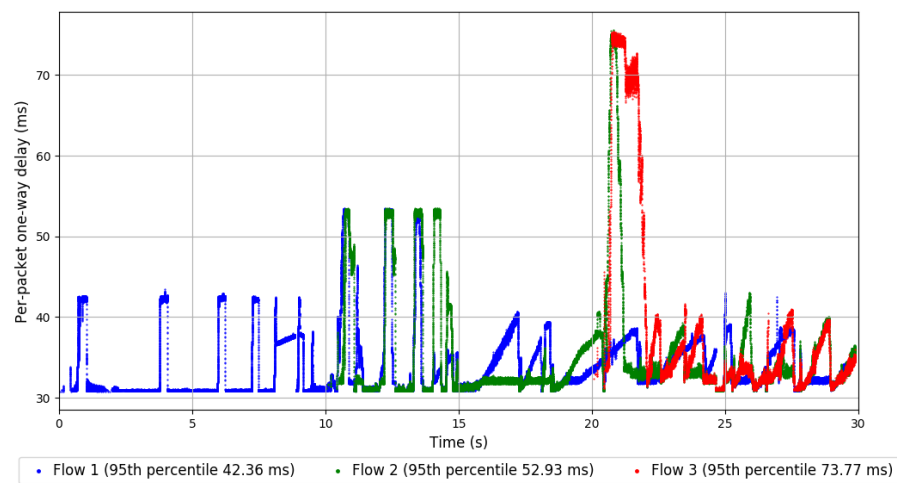
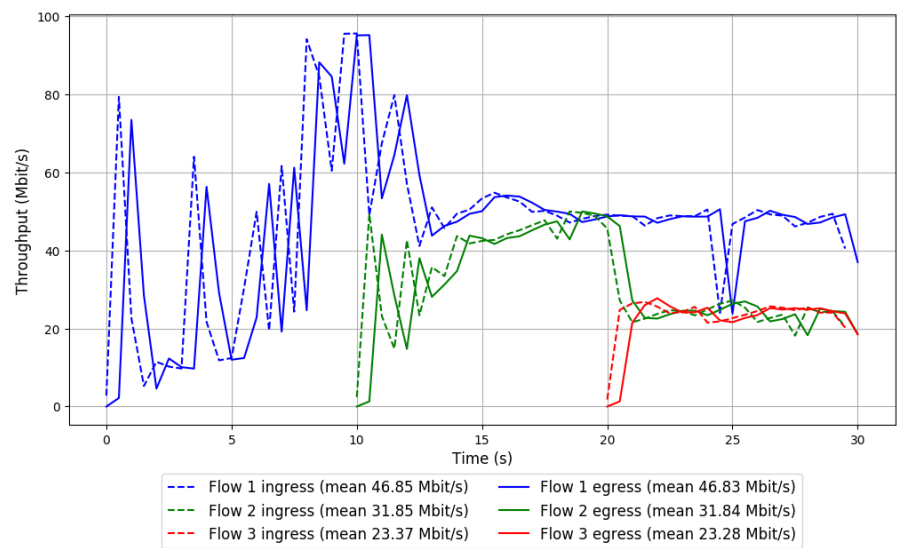
-- Flow 3:

Average throughput: 23.28 Mbit/s

95th percentile per-packet one-way delay: 73.767 ms

Loss rate: 1.03%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-08-02 02:23:58

End at: 2018-08-02 02:24:28

Local clock offset: -0.718 ms

Remote clock offset: 1.848 ms

Below is generated by plot.py at 2018-08-02 04:24:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.76 Mbit/s

95th percentile per-packet one-way delay: 51.864 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 41.28 Mbit/s

95th percentile per-packet one-way delay: 42.534 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 36.76 Mbit/s

95th percentile per-packet one-way delay: 52.895 ms

Loss rate: 0.35%

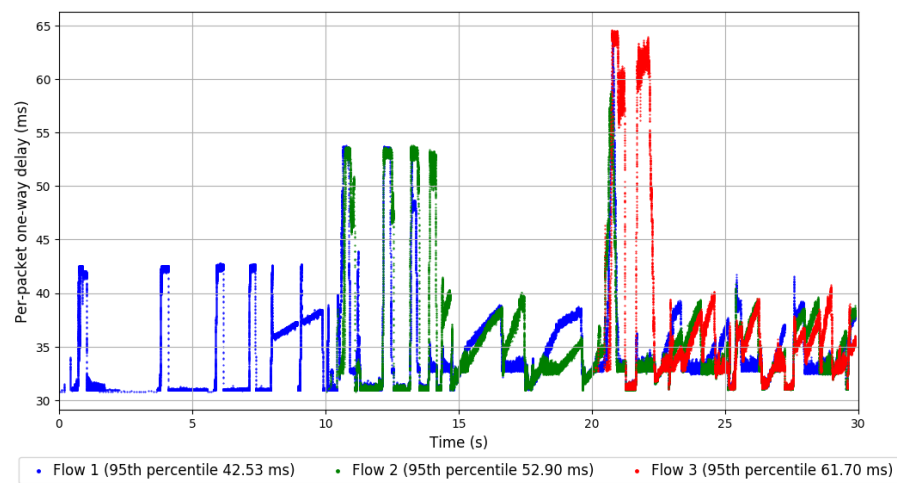
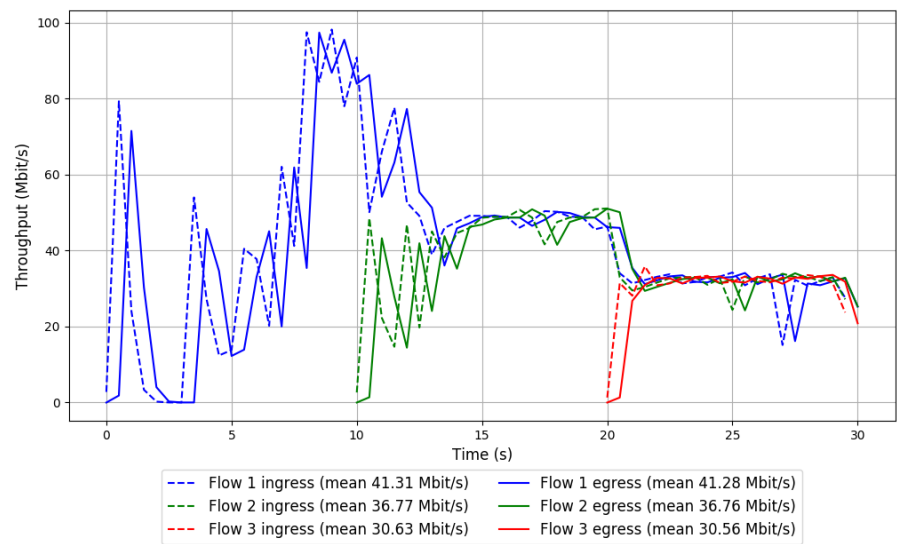
-- Flow 3:

Average throughput: 30.56 Mbit/s

95th percentile per-packet one-way delay: 61.695 ms

Loss rate: 0.91%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-08-02 02:47:10

End at: 2018-08-02 02:47:40

Local clock offset: -3.685 ms

Remote clock offset: 1.796 ms

Below is generated by plot.py at 2018-08-02 04:24:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.28 Mbit/s

95th percentile per-packet one-way delay: 52.439 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 43.49 Mbit/s

95th percentile per-packet one-way delay: 42.451 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 35.78 Mbit/s

95th percentile per-packet one-way delay: 53.075 ms

Loss rate: 0.39%

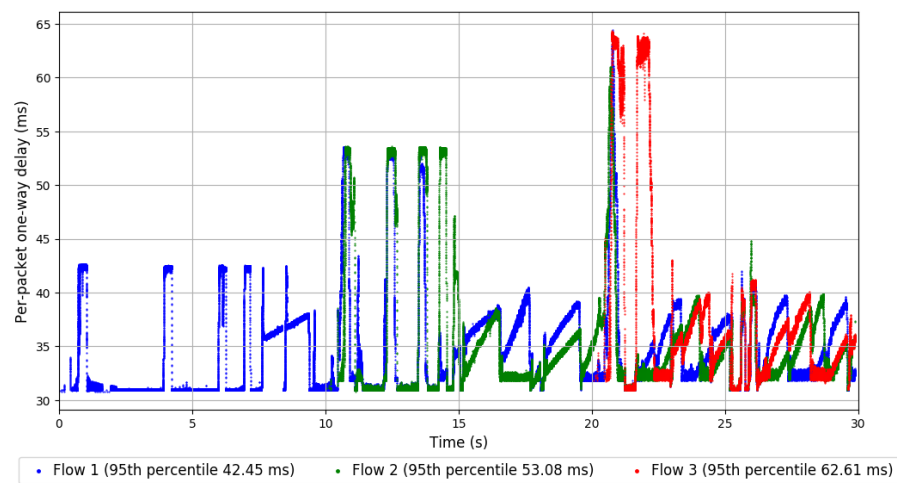
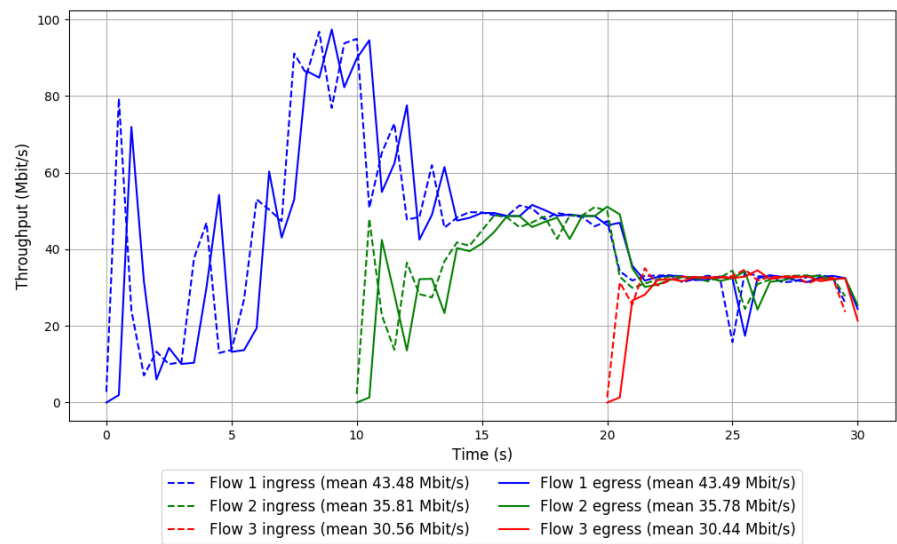
-- Flow 3:

Average throughput: 30.44 Mbit/s

95th percentile per-packet one-way delay: 62.614 ms

Loss rate: 1.03%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-08-02 03:10:01

End at: 2018-08-02 03:10:31

Local clock offset: -5.077 ms

Remote clock offset: 2.097 ms

Below is generated by plot.py at 2018-08-02 04:24:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.39 Mbit/s

95th percentile per-packet one-way delay: 51.917 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 42.51 Mbit/s

95th percentile per-packet one-way delay: 42.218 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 36.04 Mbit/s

95th percentile per-packet one-way delay: 52.780 ms

Loss rate: 0.39%

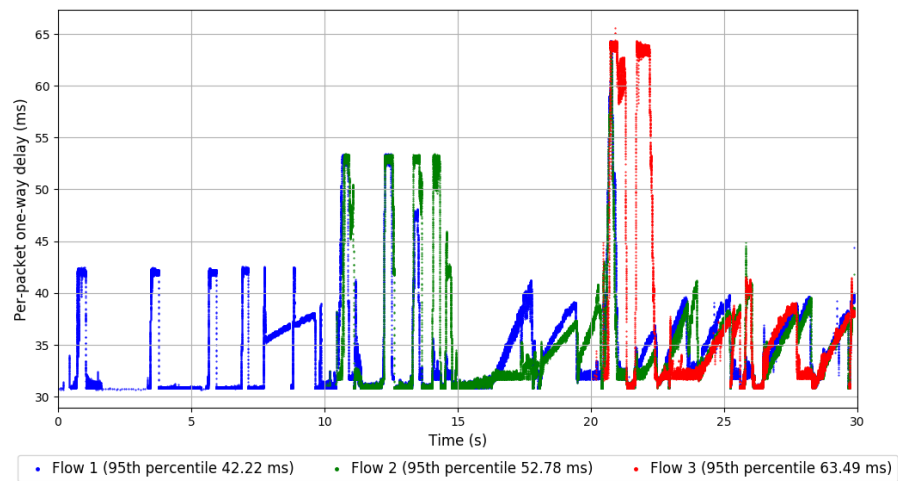
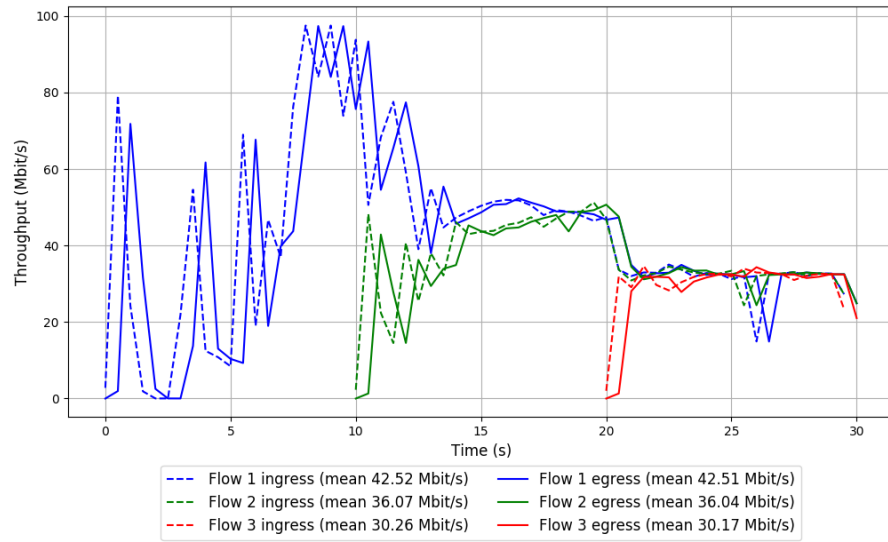
-- Flow 3:

Average throughput: 30.17 Mbit/s

95th percentile per-packet one-way delay: 63.486 ms

Loss rate: 0.95%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-08-02 03:33:08

End at: 2018-08-02 03:33:38

Local clock offset: -0.873 ms

Remote clock offset: 2.862 ms

Below is generated by plot.py at 2018-08-02 04:25:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.62 Mbit/s

95th percentile per-packet one-way delay: 47.134 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 58.17 Mbit/s

95th percentile per-packet one-way delay: 42.010 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 32.82 Mbit/s

95th percentile per-packet one-way delay: 52.828 ms

Loss rate: 0.33%

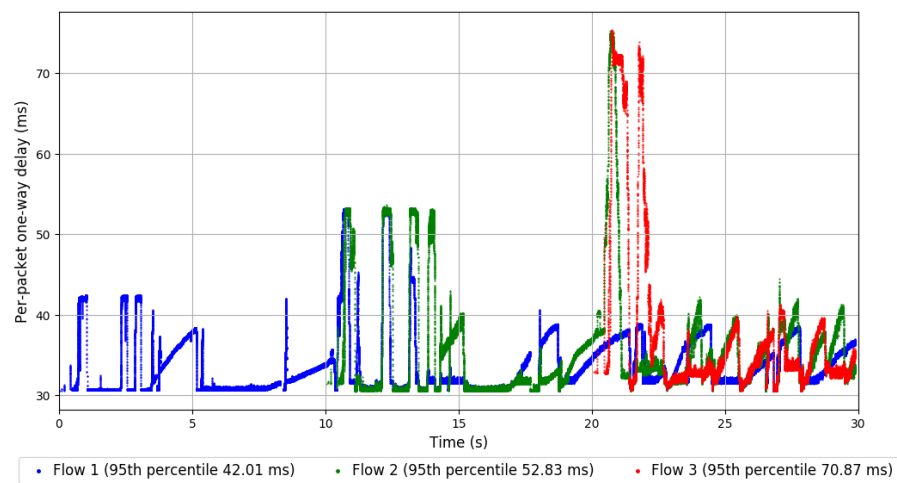
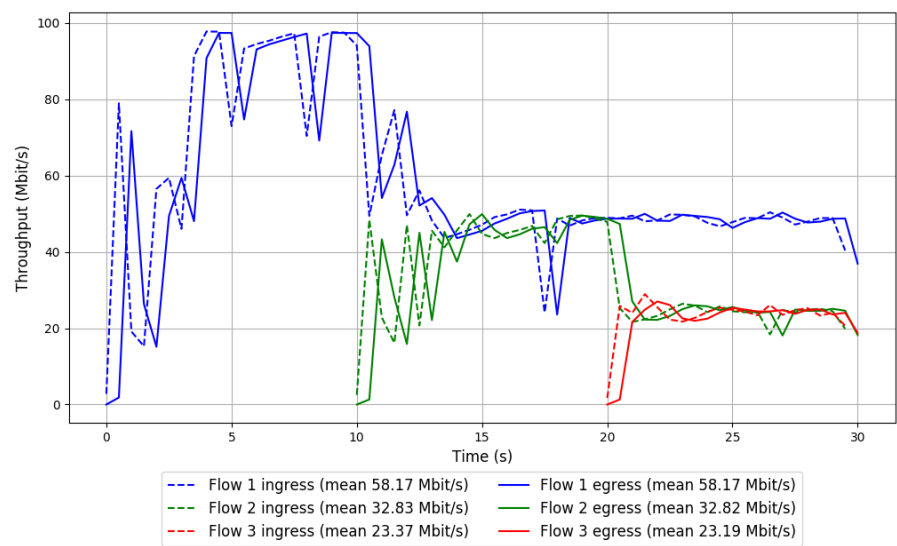
-- Flow 3:

Average throughput: 23.19 Mbit/s

95th percentile per-packet one-way delay: 70.874 ms

Loss rate: 1.46%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-08-02 03:56:11

End at: 2018-08-02 03:56:41

Local clock offset: 1.742 ms

Remote clock offset: 2.204 ms

Below is generated by plot.py at 2018-08-02 04:25:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.37 Mbit/s

95th percentile per-packet one-way delay: 52.440 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 43.56 Mbit/s

95th percentile per-packet one-way delay: 42.274 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 36.21 Mbit/s

95th percentile per-packet one-way delay: 53.038 ms

Loss rate: 0.38%

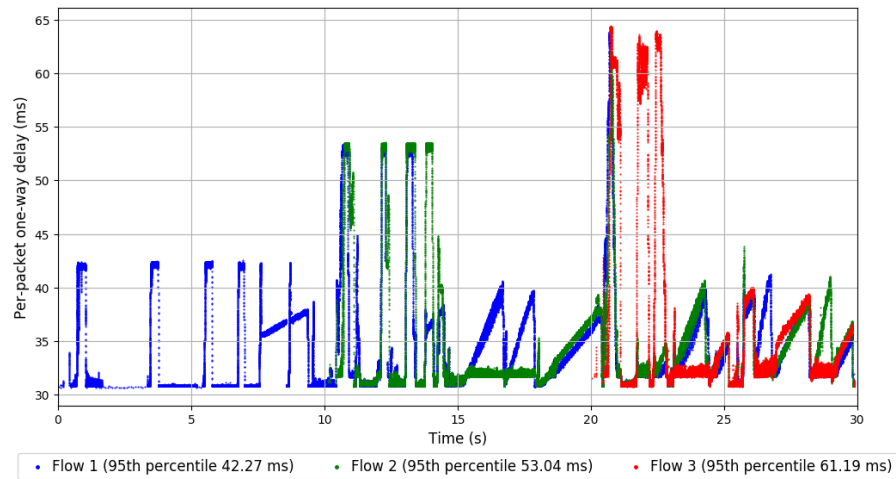
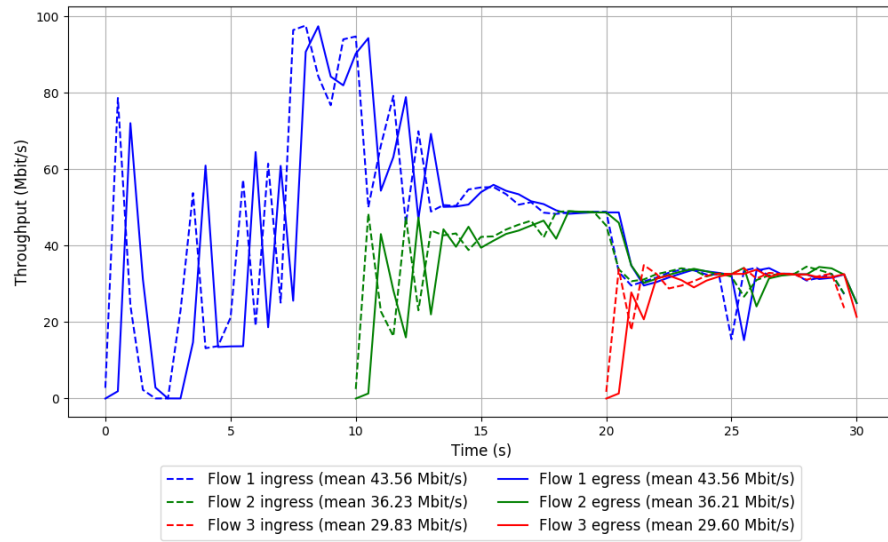
-- Flow 3:

Average throughput: 29.60 Mbit/s

95th percentile per-packet one-way delay: 61.186 ms

Loss rate: 1.44%

Run 10: Report of QUIC Cubic — Data Link

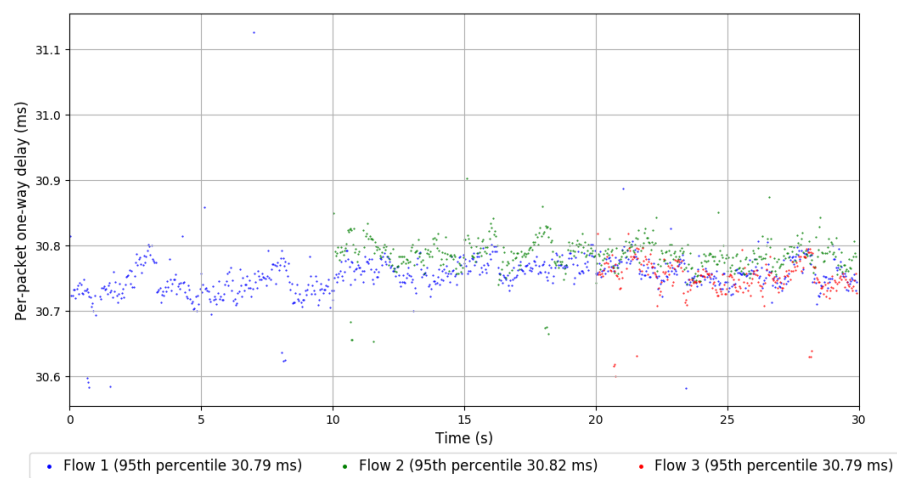
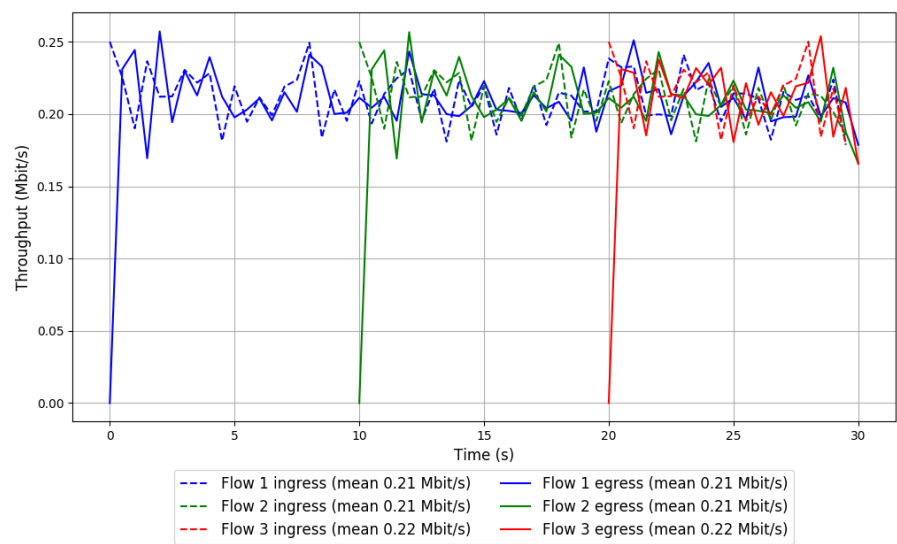


```
Run 1: Statistics of SReAM

Start at: 2018-08-02 00:23:37
End at: 2018-08-02 00:24:07
Local clock offset: -0.248 ms
Remote clock offset: 2.426 ms

# Below is generated by plot.py at 2018-08-02 04:25:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 30.810 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 30.791 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 30.823 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.790 ms
Loss rate: 0.71%
```


Run 1: Report of SReAM — Data Link



Run 2: Statistics of SReAM

Start at: 2018-08-02 00:46:26

End at: 2018-08-02 00:46:56

Local clock offset: 0.202 ms

Remote clock offset: 1.313 ms

Below is generated by plot.py at 2018-08-02 04:25:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 30.941 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.915 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.879 ms

Loss rate: 0.39%

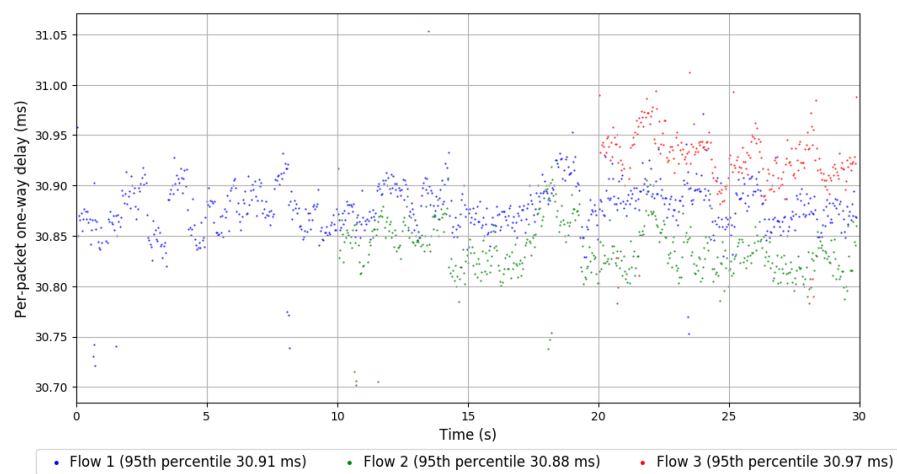
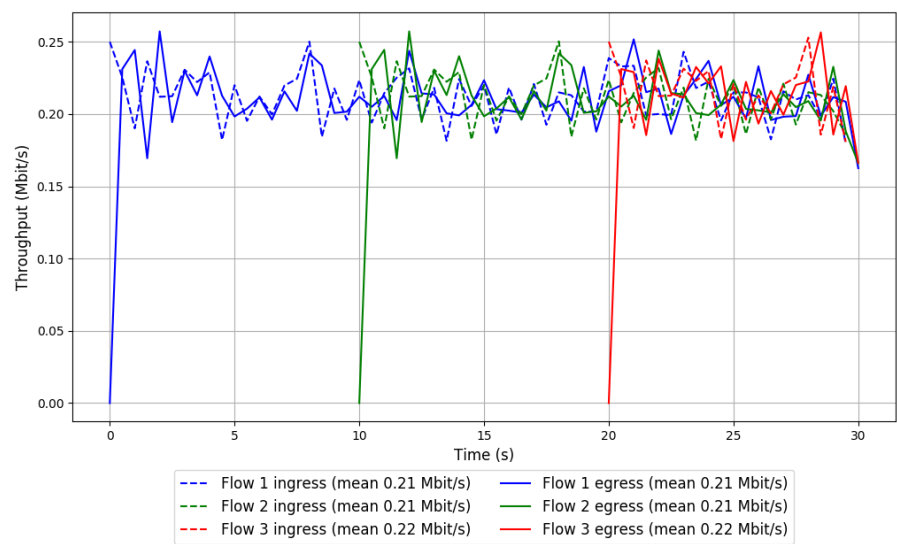
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.972 ms

Loss rate: 0.71%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-08-02 01:09:23

End at: 2018-08-02 01:09:53

Local clock offset: 0.178 ms

Remote clock offset: 1.867 ms

Below is generated by plot.py at 2018-08-02 04:25:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 30.866 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.871 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.841 ms

Loss rate: 0.39%

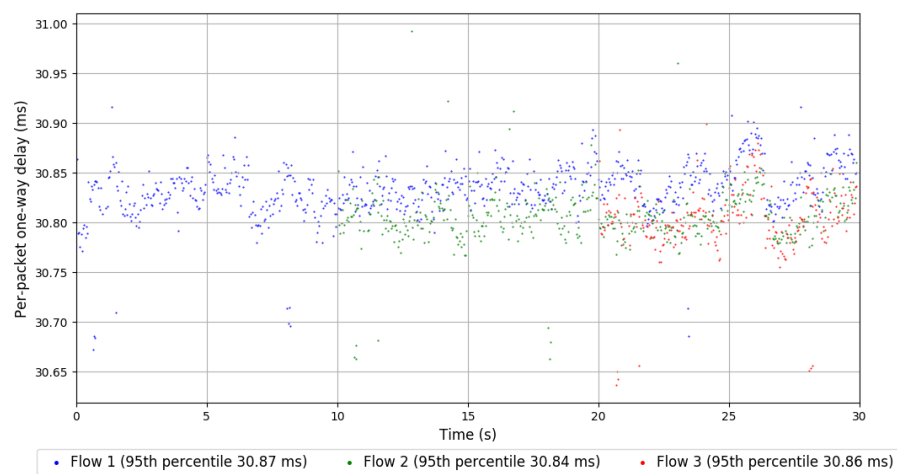
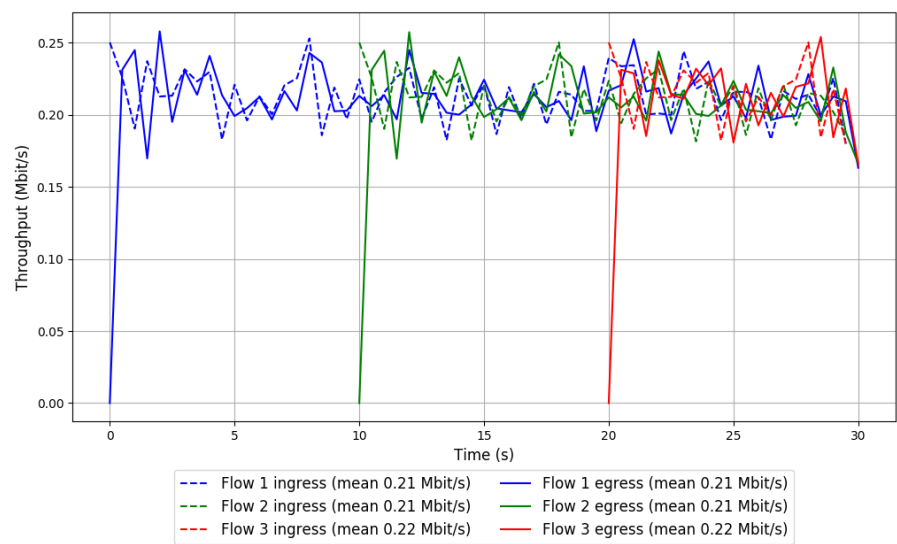
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.857 ms

Loss rate: 0.71%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-08-02 01:32:29

End at: 2018-08-02 01:32:59

Local clock offset: 0.241 ms

Remote clock offset: 2.619 ms

Below is generated by plot.py at 2018-08-02 04:25:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 30.986 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.994 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.894 ms

Loss rate: 0.19%

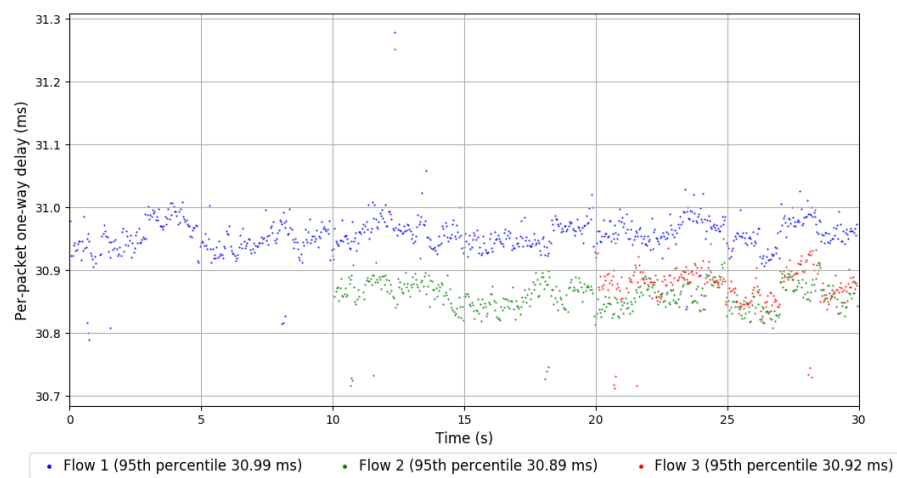
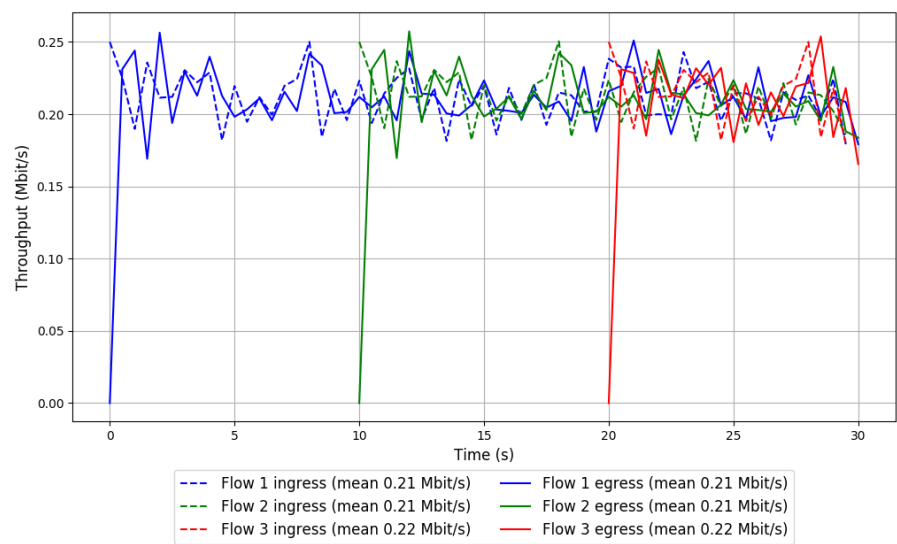
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.922 ms

Loss rate: 0.71%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-08-02 01:55:30

End at: 2018-08-02 01:56:00

Local clock offset: 0.116 ms

Remote clock offset: 2.331 ms

Below is generated by plot.py at 2018-08-02 04:25:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 30.961 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.967 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.948 ms

Loss rate: 0.39%

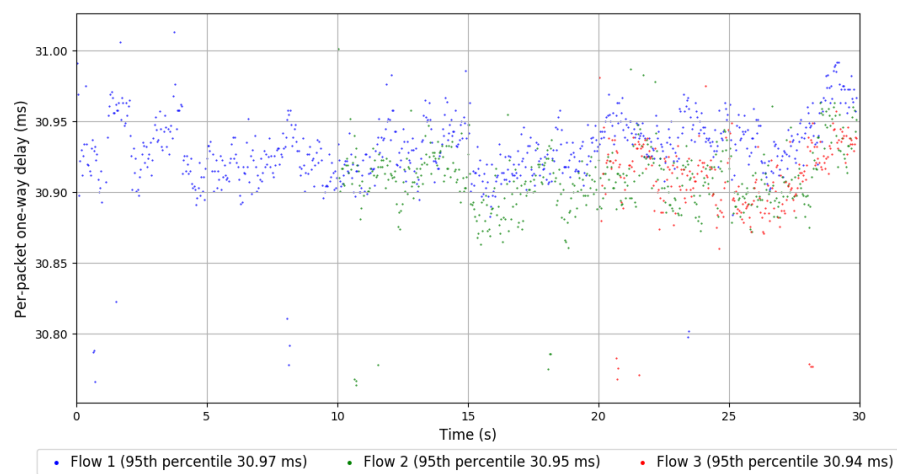
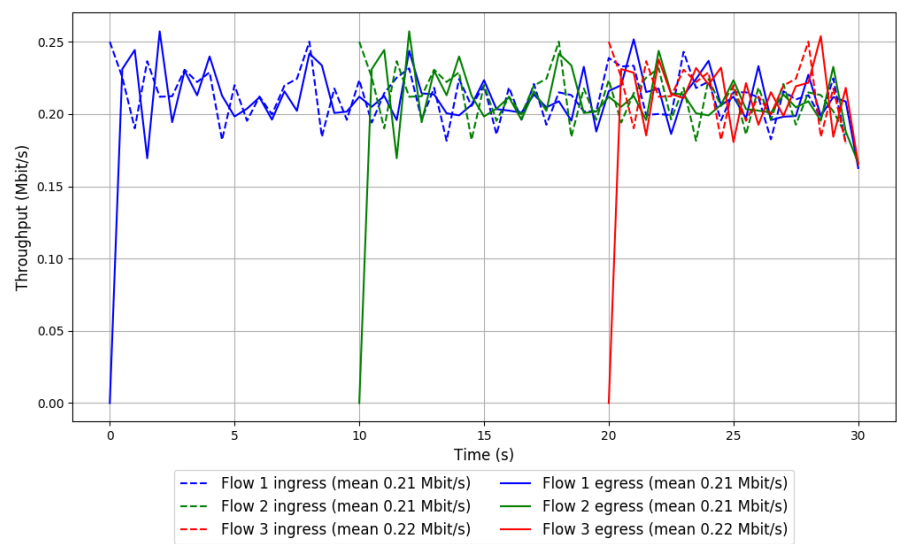
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.943 ms

Loss rate: 0.71%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-08-02 02:18:35

End at: 2018-08-02 02:19:05

Local clock offset: -0.077 ms

Remote clock offset: 1.965 ms

Below is generated by plot.py at 2018-08-02 04:25:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 30.918 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.917 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.911 ms

Loss rate: 0.39%

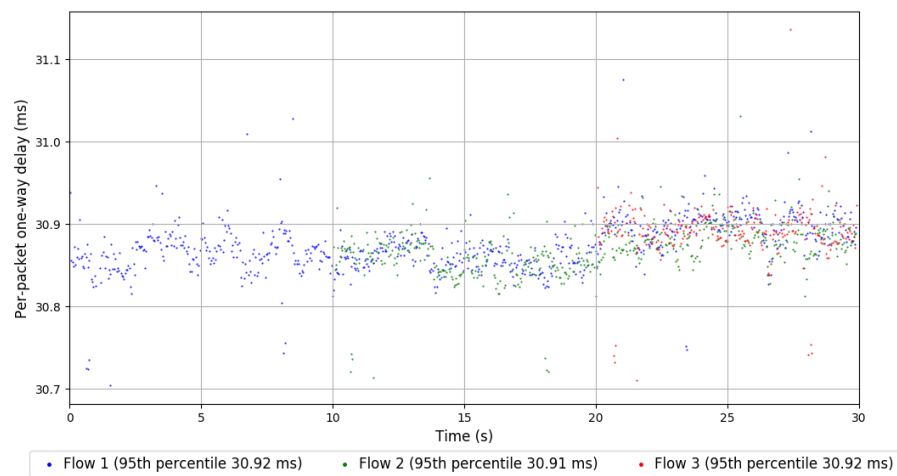
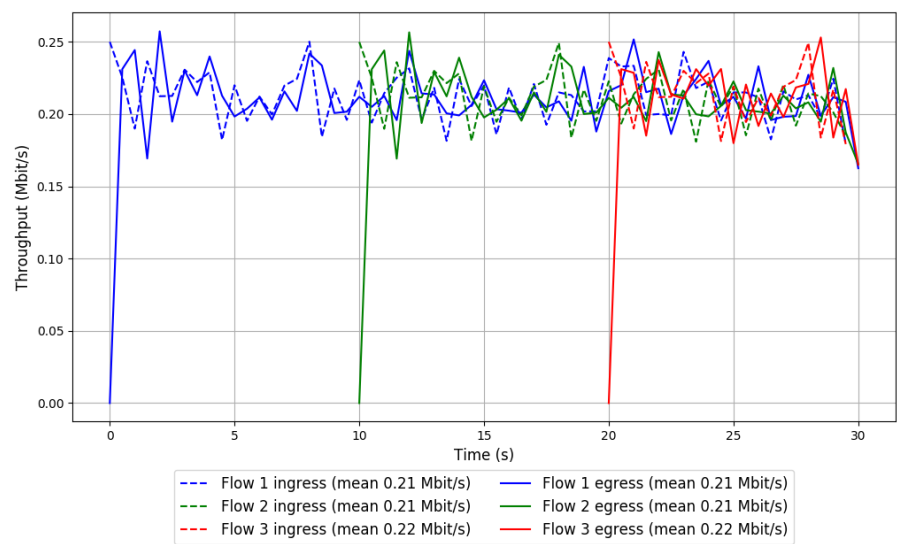
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.922 ms

Loss rate: 0.71%

Run 6: Report of SReAM — Data Link

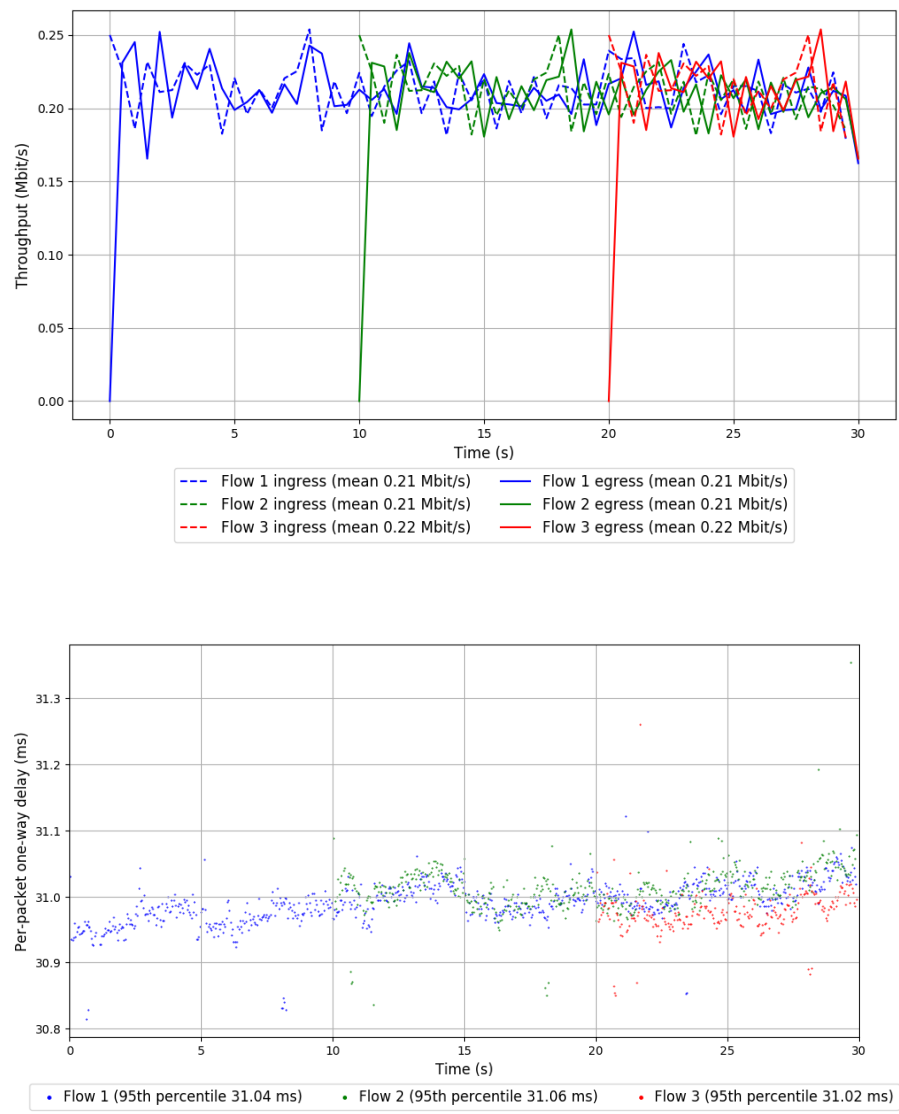


Run 7: Statistics of SReAM

Start at: 2018-08-02 02:41:48
End at: 2018-08-02 02:42:18
Local clock offset: -3.283 ms
Remote clock offset: 1.63 ms

Below is generated by plot.py at 2018-08-02 04:25:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 31.043 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 31.037 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 31.056 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 31.017 ms
Loss rate: 0.71%

Run 7: Report of SReAM — Data Link

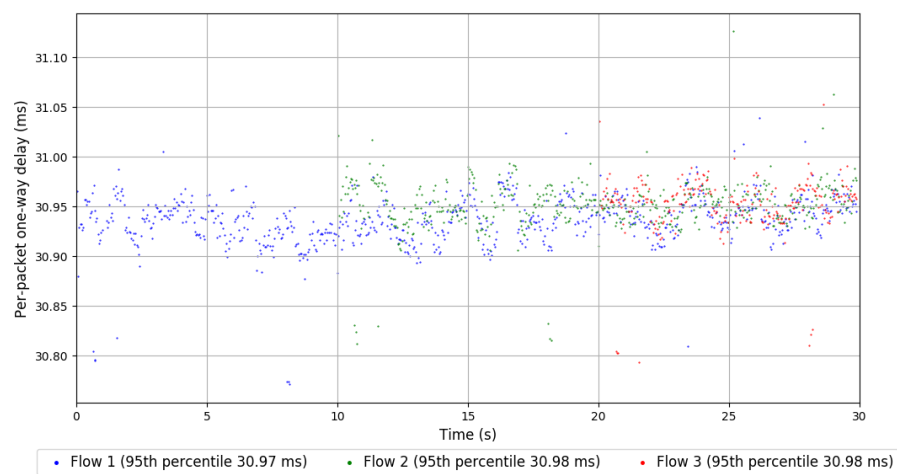
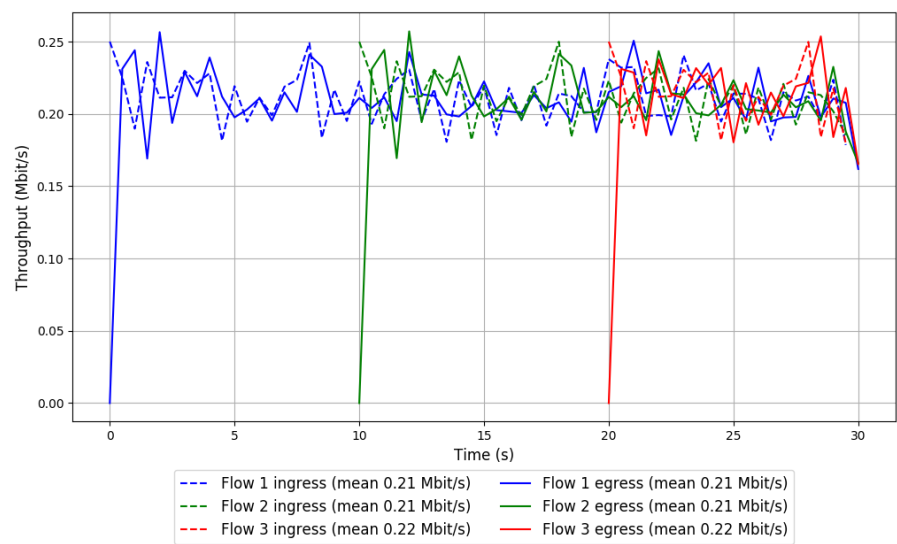


Run 8: Statistics of SReAM

Start at: 2018-08-02 03:04:41
End at: 2018-08-02 03:05:11
Local clock offset: -4.706 ms
Remote clock offset: 2.052 ms

Below is generated by plot.py at 2018-08-02 04:25:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 30.978 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 30.970 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 30.980 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.982 ms
Loss rate: 0.71%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-08-02 03:27:45

End at: 2018-08-02 03:28:15

Local clock offset: -2.742 ms

Remote clock offset: 2.619 ms

Below is generated by plot.py at 2018-08-02 04:25:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 30.593 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.601 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.563 ms

Loss rate: 0.39%

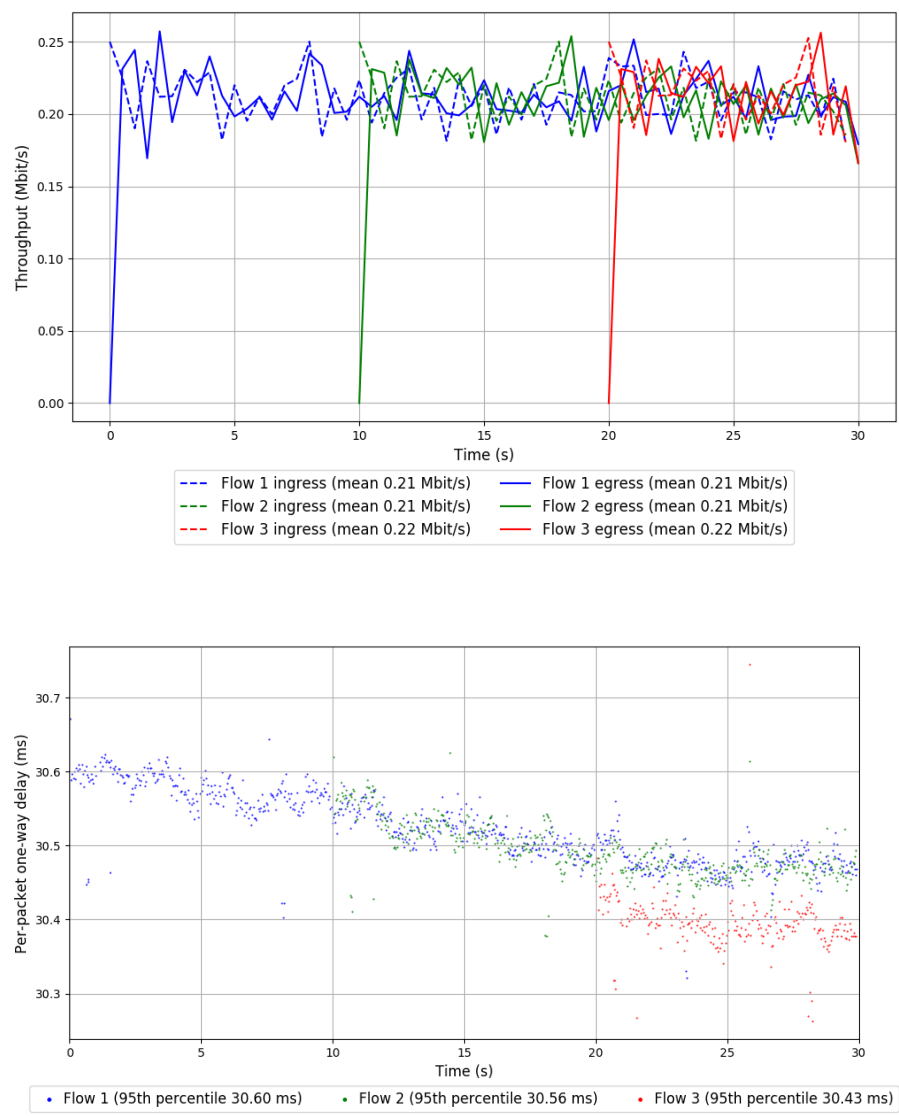
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.432 ms

Loss rate: 0.71%

Run 9: Report of SCReAM — Data Link



Run 10: Statistics of SCReAM

Start at: 2018-08-02 03:50:41

End at: 2018-08-02 03:51:11

Local clock offset: 1.896 ms

Remote clock offset: 2.793 ms

Below is generated by plot.py at 2018-08-02 04:25:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 30.691 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.675 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.691 ms

Loss rate: 0.39%

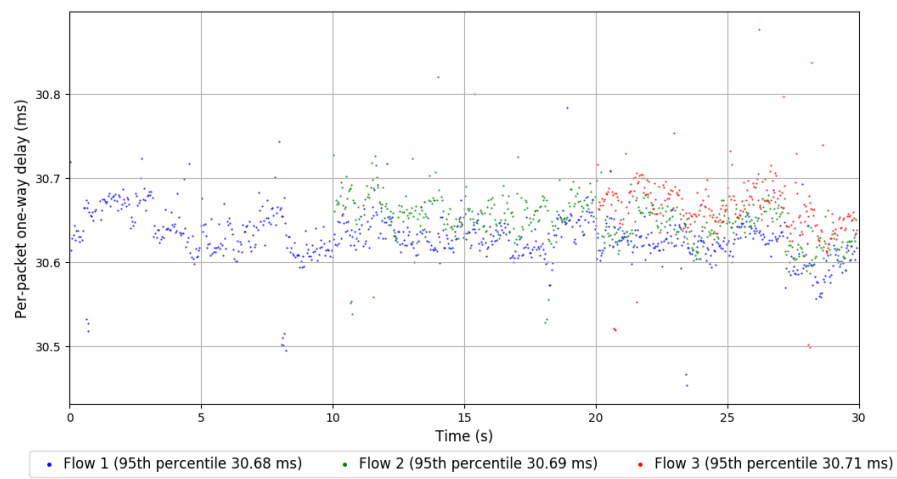
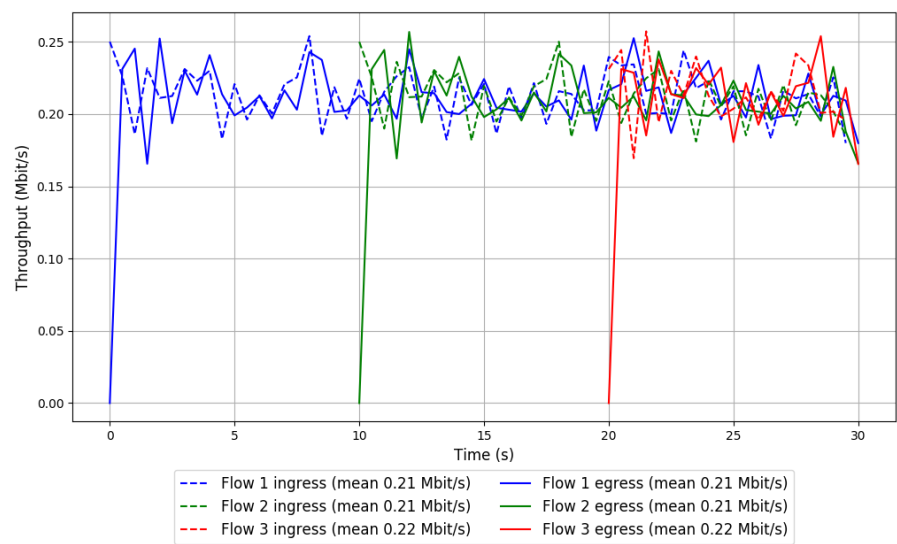
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.706 ms

Loss rate: 0.71%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-08-02 00:16:48

End at: 2018-08-02 00:17:18

Local clock offset: -0.179 ms

Remote clock offset: 2.265 ms

Below is generated by plot.py at 2018-08-02 04:25:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 21.28 Mbit/s

95th percentile per-packet one-way delay: 38.346 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 10.84 Mbit/s

95th percentile per-packet one-way delay: 38.275 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 10.57 Mbit/s

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

Loss rate: 0.41%

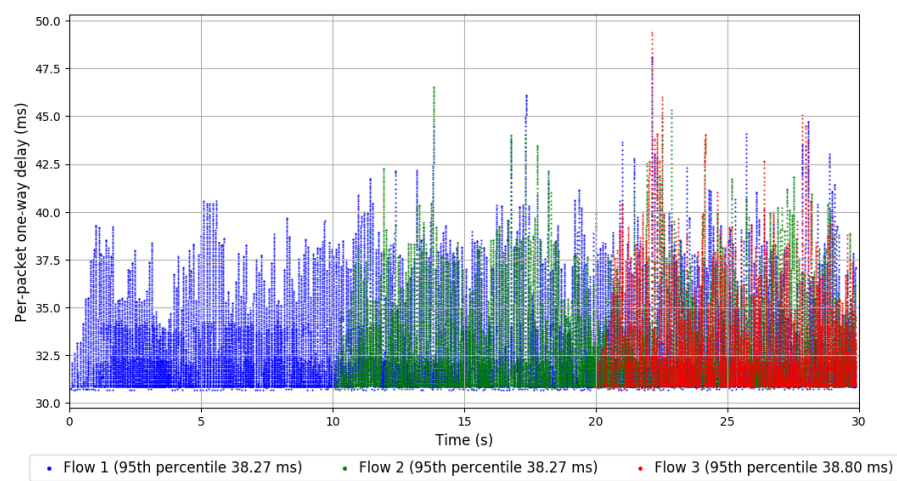
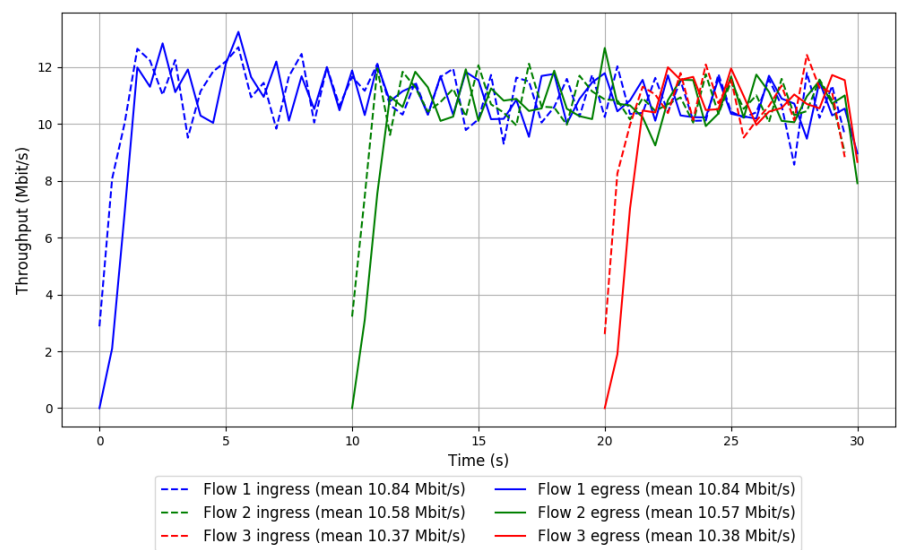
-- Flow 3:

Average throughput: 10.38 Mbit/s

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

Loss rate: 0.57%

Run 1: Report of Sprout — Data Link

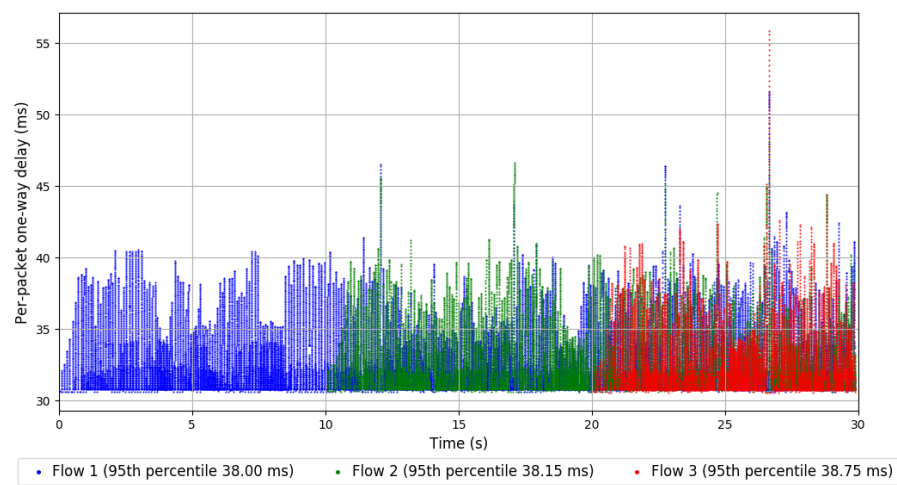
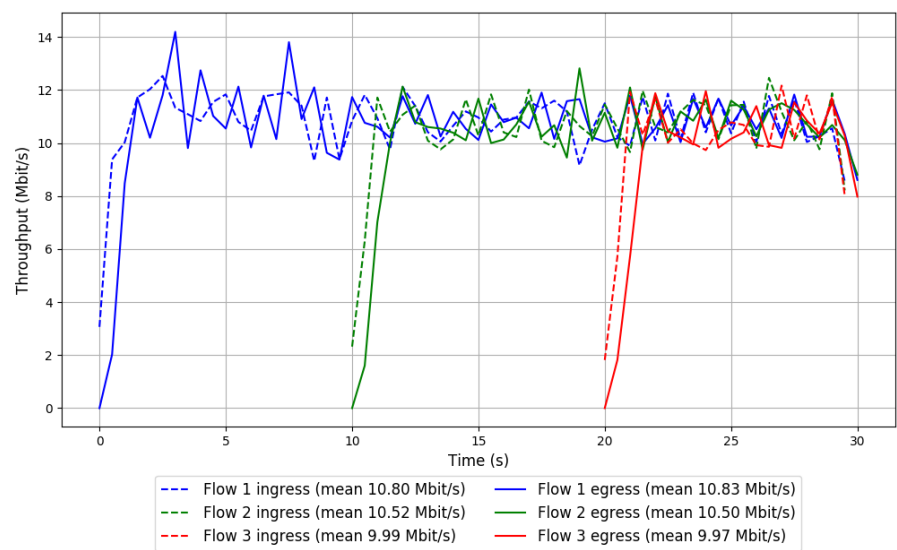


Run 2: Statistics of Sprout

Start at: 2018-08-02 00:39:38
End at: 2018-08-02 00:40:08
Local clock offset: 0.163 ms
Remote clock offset: 1.468 ms

Below is generated by plot.py at 2018-08-02 04:25:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 21.08 Mbit/s
95th percentile per-packet one-way delay: 38.135 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 10.83 Mbit/s
95th percentile per-packet one-way delay: 37.998 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 10.50 Mbit/s
95th percentile per-packet one-way delay: 38.152 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 9.97 Mbit/s
95th percentile per-packet one-way delay: 38.749 ms
Loss rate: 0.79%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-08-02 01:02:31

End at: 2018-08-02 01:03:01

Local clock offset: 0.262 ms

Remote clock offset: 1.541 ms

Below is generated by plot.py at 2018-08-02 04:25:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 21.39 Mbit/s

95th percentile per-packet one-way delay: 38.493 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 10.82 Mbit/s

95th percentile per-packet one-way delay: 38.217 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 10.79 Mbit/s

95th percentile per-packet one-way delay: 38.799 ms

Loss rate: 0.24%

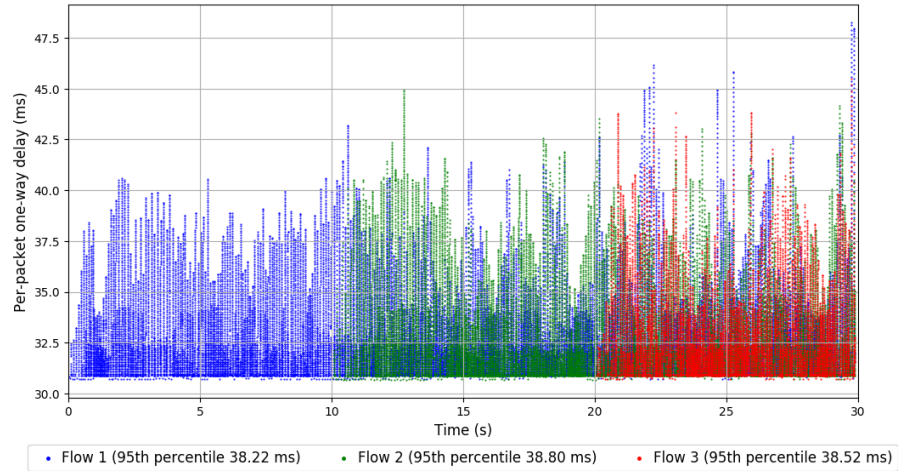
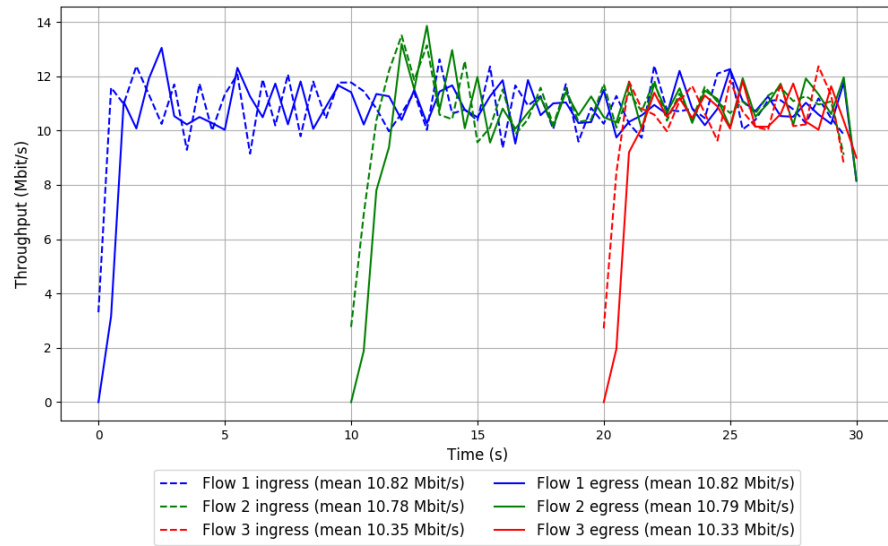
-- Flow 3:

Average throughput: 10.33 Mbit/s

95th percentile per-packet one-way delay: 38.523 ms

Loss rate: 0.86%

Run 3: Report of Sprout — Data Link

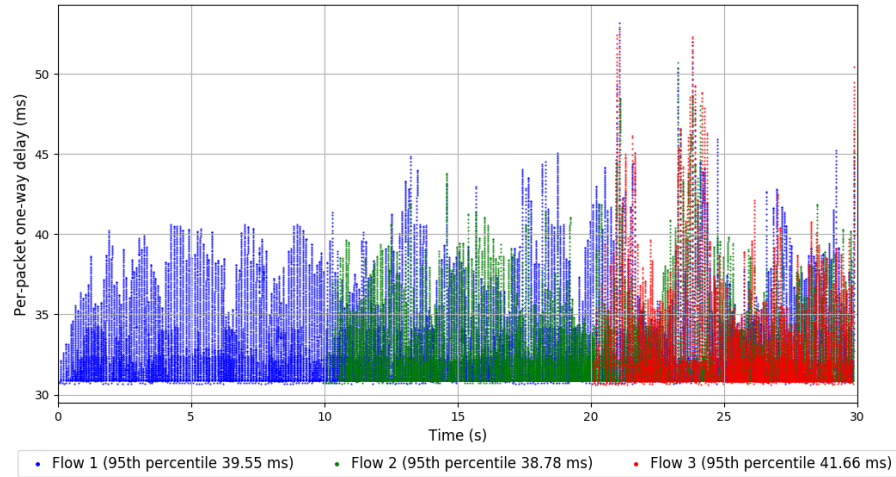
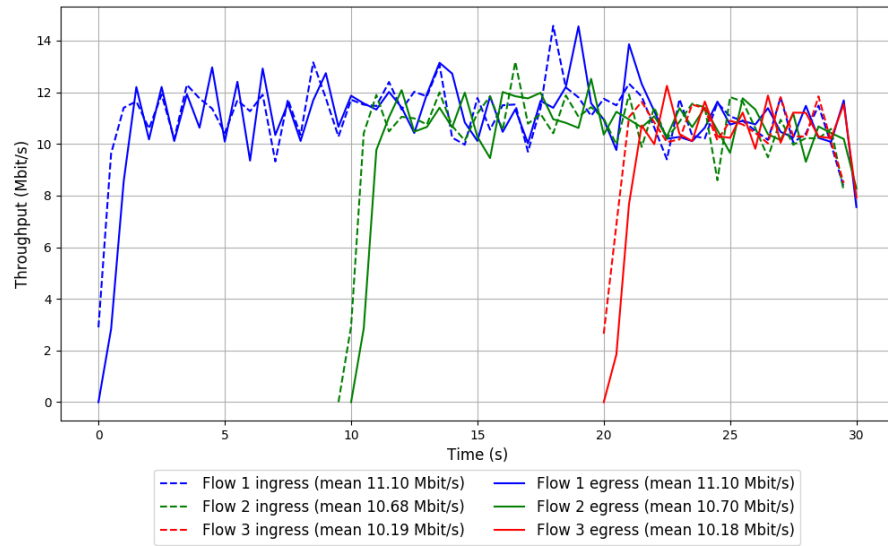


Run 4: Statistics of Sprout

Start at: 2018-08-02 01:25:39
End at: 2018-08-02 01:26:09
Local clock offset: 0.256 ms
Remote clock offset: 2.515 ms

```
# Below is generated by plot.py at 2018-08-02 04:25:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 21.57 Mbit/s
95th percentile per-packet one-way delay: 39.507 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 11.10 Mbit/s
95th percentile per-packet one-way delay: 39.548 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 10.70 Mbit/s
95th percentile per-packet one-way delay: 38.782 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 10.18 Mbit/s
95th percentile per-packet one-way delay: 41.662 ms
Loss rate: 0.36%
```

Run 4: Report of Sprout — Data Link

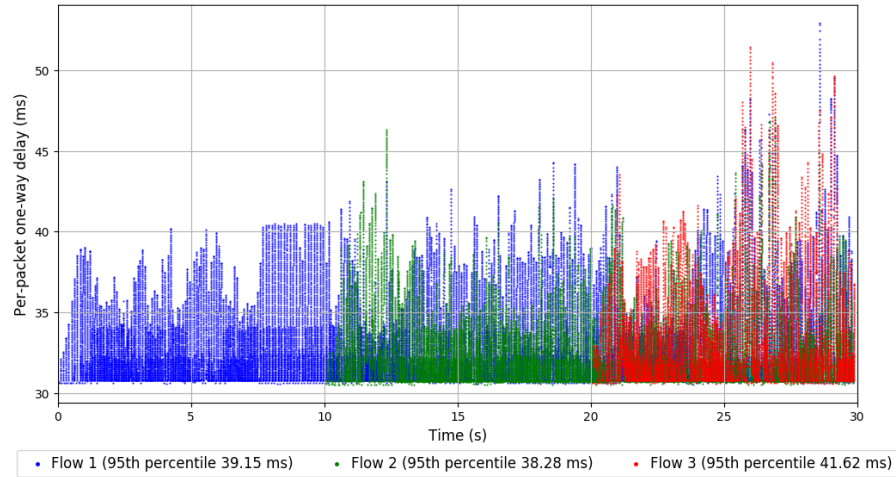
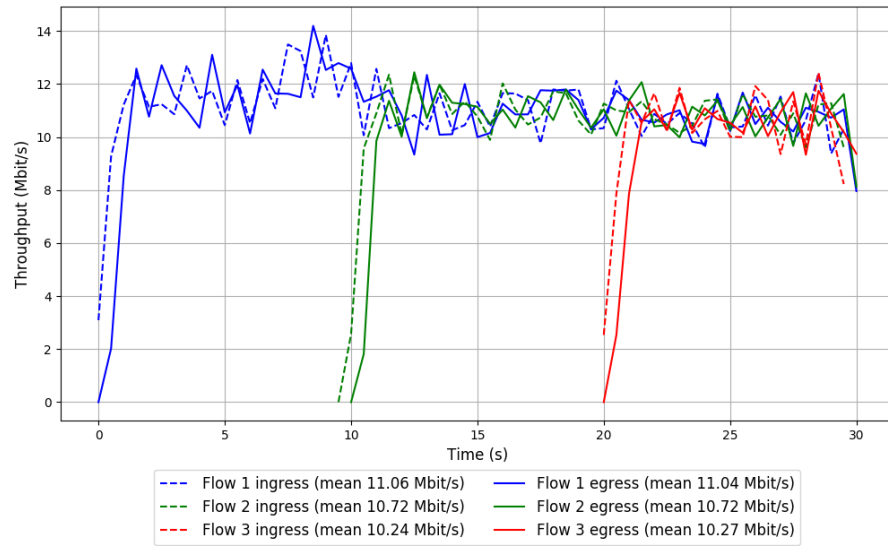


Run 5: Statistics of Sprout

Start at: 2018-08-02 01:48:41
End at: 2018-08-02 01:49:11
Local clock offset: 0.055 ms
Remote clock offset: 2.421 ms

Below is generated by plot.py at 2018-08-02 04:25:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 21.55 Mbit/s
95th percentile per-packet one-way delay: 39.253 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 11.04 Mbit/s
95th percentile per-packet one-way delay: 39.149 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 10.72 Mbit/s
95th percentile per-packet one-way delay: 38.285 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 10.27 Mbit/s
95th percentile per-packet one-way delay: 41.625 ms
Loss rate: 0.28%

Run 5: Report of Sprout — Data Link

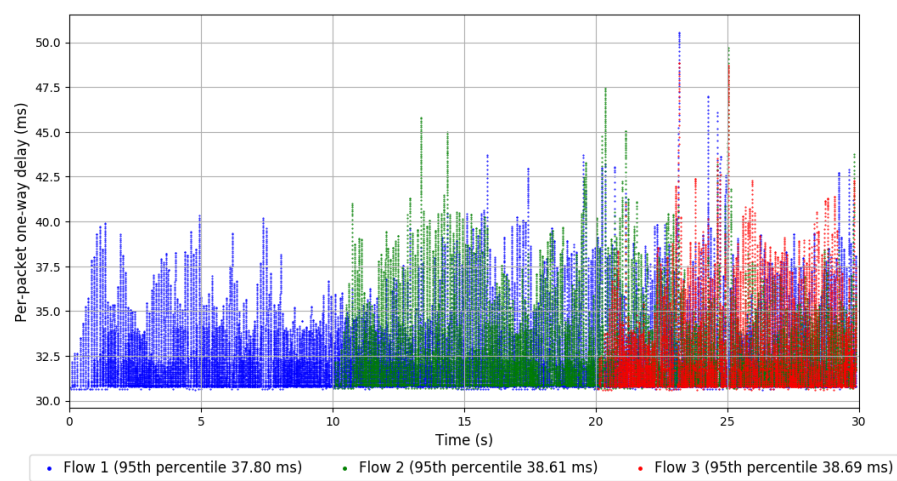
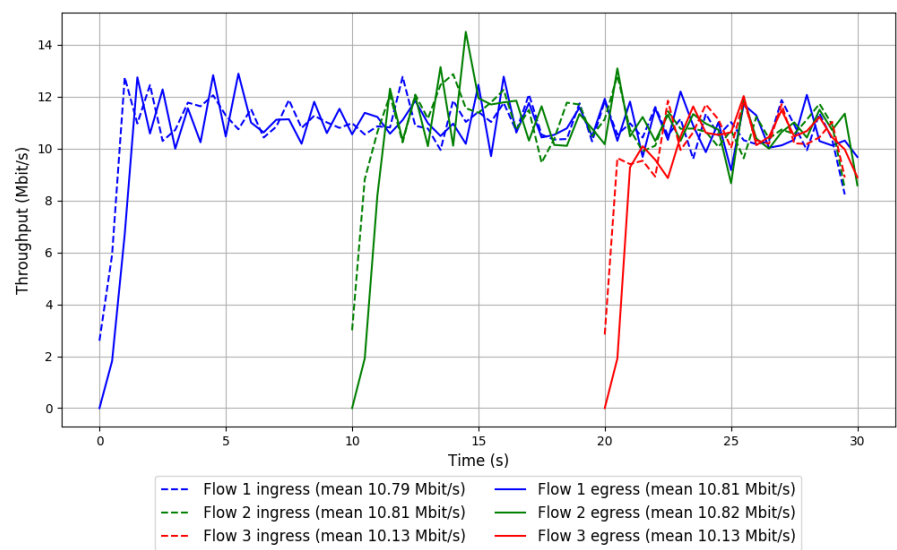


Run 6: Statistics of Sprout

Start at: 2018-08-02 02:11:41
End at: 2018-08-02 02:12:11
Local clock offset: -0.012 ms
Remote clock offset: 2.251 ms

Below is generated by plot.py at 2018-08-02 04:25:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 21.33 Mbit/s
95th percentile per-packet one-way delay: 38.203 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 10.81 Mbit/s
95th percentile per-packet one-way delay: 37.796 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 10.82 Mbit/s
95th percentile per-packet one-way delay: 38.612 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 10.13 Mbit/s
95th percentile per-packet one-way delay: 38.688 ms
Loss rate: 0.53%

Run 6: Report of Sprout — Data Link

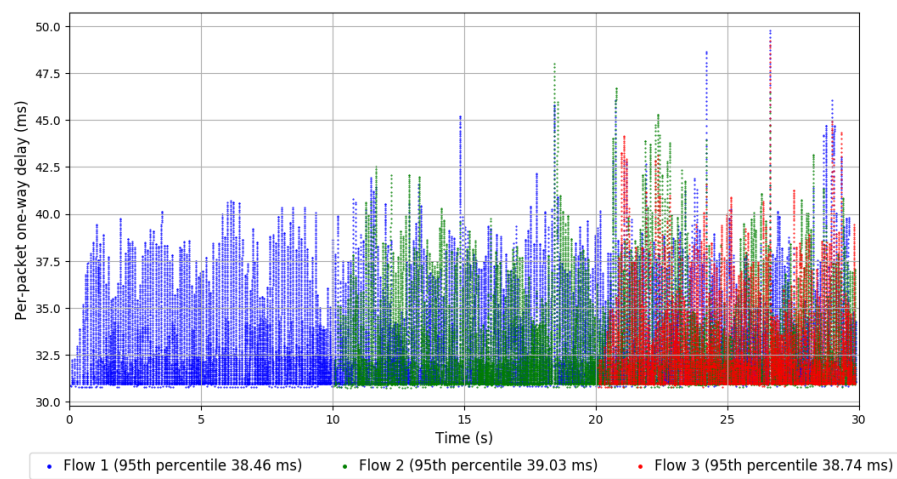
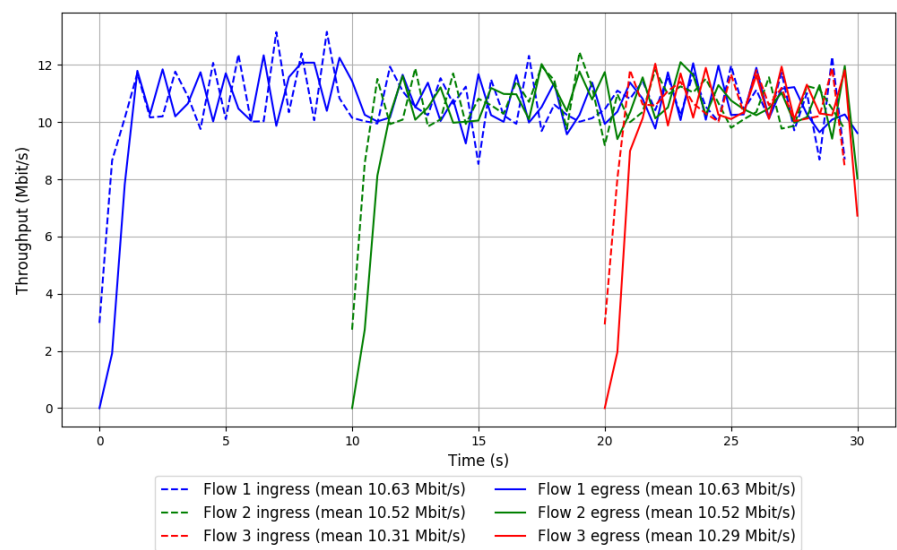


Run 7: Statistics of Sprout

Start at: 2018-08-02 02:34:53
End at: 2018-08-02 02:35:23
Local clock offset: -2.609 ms
Remote clock offset: 1.786 ms

```
# Below is generated by plot.py at 2018-08-02 04:25:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 20.99 Mbit/s
95th percentile per-packet one-way delay: 38.659 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 10.63 Mbit/s
95th percentile per-packet one-way delay: 38.458 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 10.52 Mbit/s
95th percentile per-packet one-way delay: 39.028 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 10.29 Mbit/s
95th percentile per-packet one-way delay: 38.745 ms
Loss rate: 1.00%
```


Run 7: Report of Sprout — Data Link

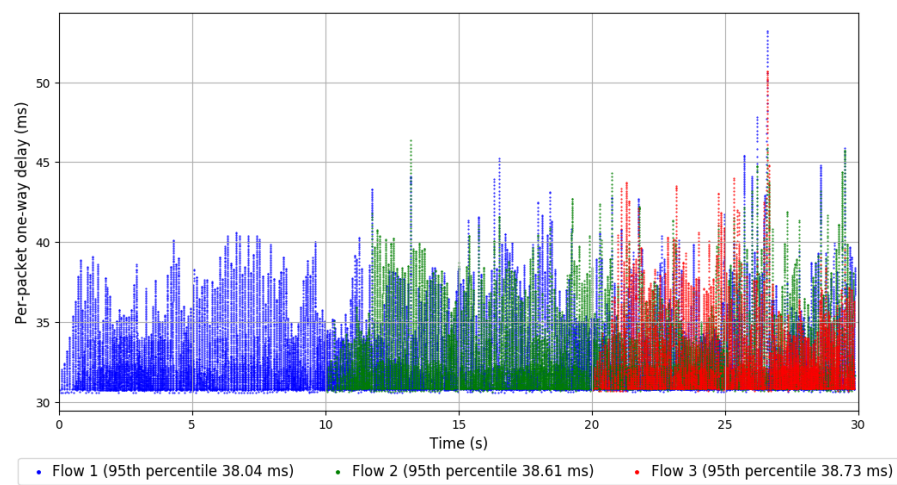
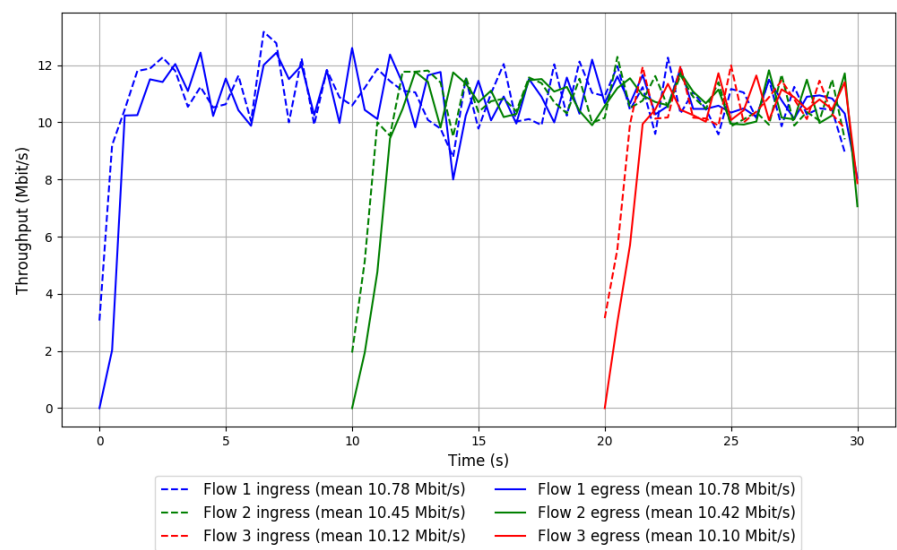


Run 8: Statistics of Sprout

Start at: 2018-08-02 02:57:52
End at: 2018-08-02 02:58:22
Local clock offset: -4.418 ms
Remote clock offset: 2.068 ms

```
# Below is generated by plot.py at 2018-08-02 04:25:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 21.02 Mbit/s
95th percentile per-packet one-way delay: 38.323 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 10.78 Mbit/s
95th percentile per-packet one-way delay: 38.044 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 10.42 Mbit/s
95th percentile per-packet one-way delay: 38.608 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 10.10 Mbit/s
95th percentile per-packet one-way delay: 38.727 ms
Loss rate: 1.04%
```

Run 8: Report of Sprout — Data Link

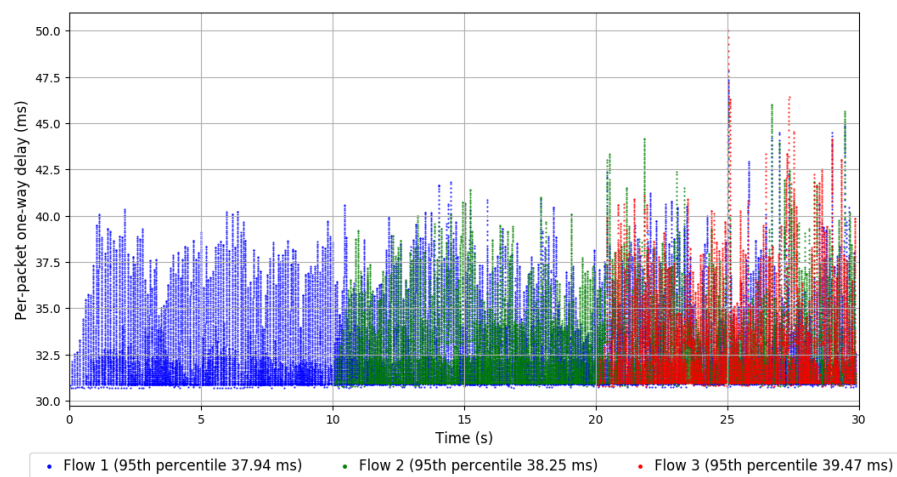
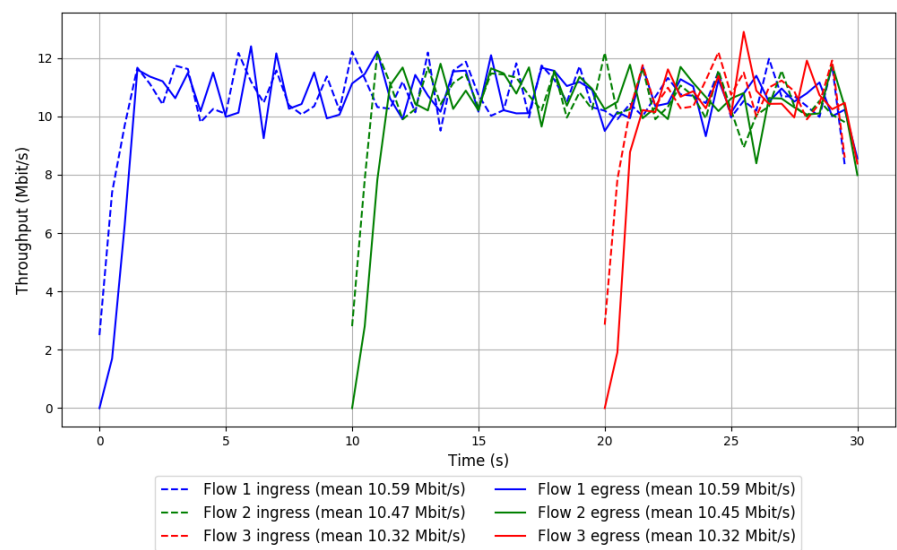


Run 9: Statistics of Sprout

Start at: 2018-08-02 03:20:47
End at: 2018-08-02 03:21:17
Local clock offset: -5.628 ms
Remote clock offset: 2.394 ms

Below is generated by plot.py at 2018-08-02 04:25:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 20.92 Mbit/s
95th percentile per-packet one-way delay: 38.233 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 10.59 Mbit/s
95th percentile per-packet one-way delay: 37.943 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 10.45 Mbit/s
95th percentile per-packet one-way delay: 38.252 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 10.32 Mbit/s
95th percentile per-packet one-way delay: 39.466 ms
Loss rate: 0.97%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-08-02 03:43:51

End at: 2018-08-02 03:44:21

Local clock offset: 0.922 ms

Remote clock offset: 2.94 ms

Below is generated by plot.py at 2018-08-02 04:25:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 21.07 Mbit/s

95th percentile per-packet one-way delay: 37.605 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 10.70 Mbit/s

95th percentile per-packet one-way delay: 37.066 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 10.46 Mbit/s

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

Loss rate: 0.39%

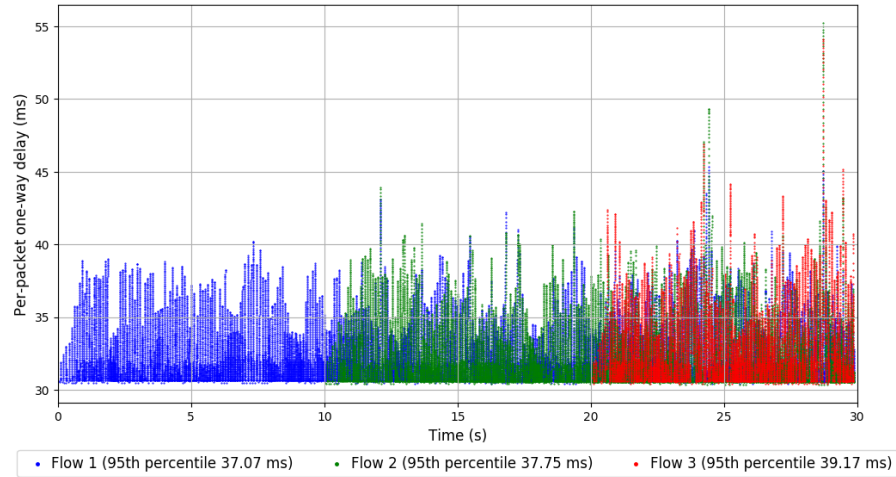
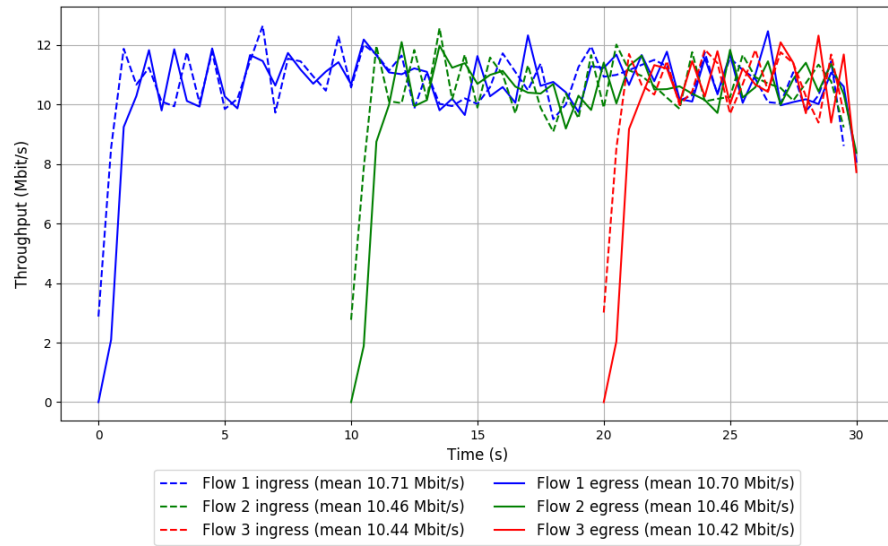
-- Flow 3:

Average throughput: 10.42 Mbit/s

95th percentile per-packet one-way delay: 39.169 ms

Loss rate: 0.96%

Run 10: Report of Sprout — Data Link

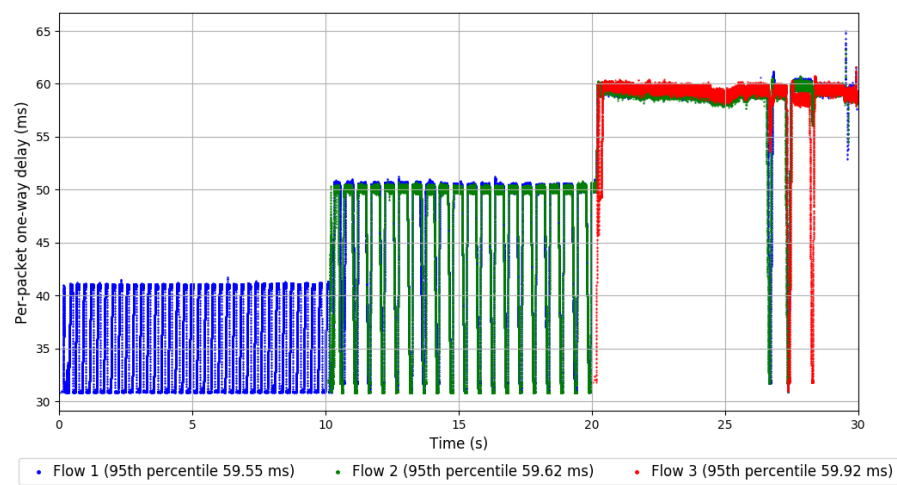
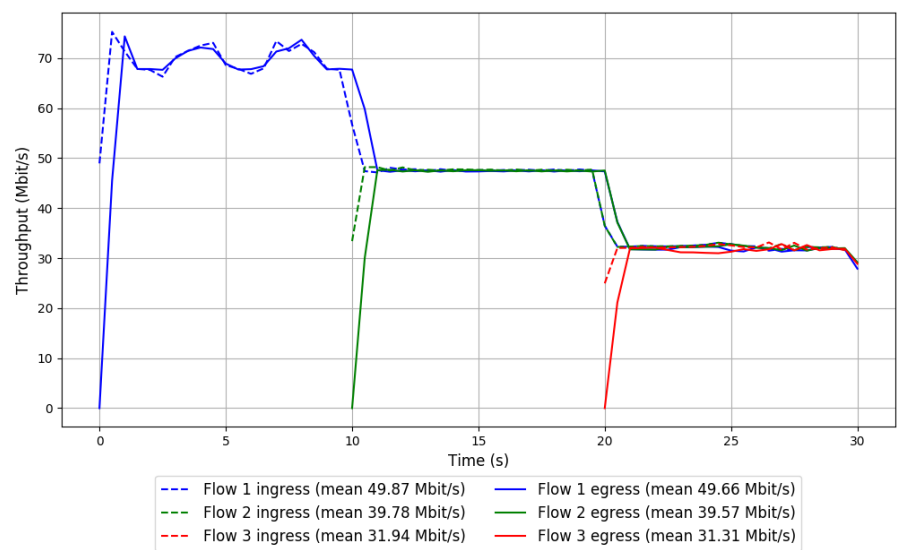


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-08-02 00:26:13
End at: 2018-08-02 00:26:43
Local clock offset: -0.068 ms
Remote clock offset: 2.498 ms

# Below is generated by plot.py at 2018-08-02 04:26:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.38 Mbit/s
95th percentile per-packet one-way delay: 59.700 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 49.66 Mbit/s
95th percentile per-packet one-way delay: 59.551 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 39.57 Mbit/s
95th percentile per-packet one-way delay: 59.621 ms
Loss rate: 0.93%
-- Flow 3:
Average throughput: 31.31 Mbit/s
95th percentile per-packet one-way delay: 59.925 ms
Loss rate: 2.64%
```


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



Run 2: Statistics of TaoVA-100x

Start at: 2018-08-02 00:49:03

End at: 2018-08-02 00:49:33

Local clock offset: 0.131 ms

Remote clock offset: 1.264 ms

Below is generated by plot.py at 2018-08-02 04:26:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.74 Mbit/s

95th percentile per-packet one-way delay: 68.197 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 47.50 Mbit/s

95th percentile per-packet one-way delay: 68.060 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 47.05 Mbit/s

95th percentile per-packet one-way delay: 50.479 ms

Loss rate: 0.59%

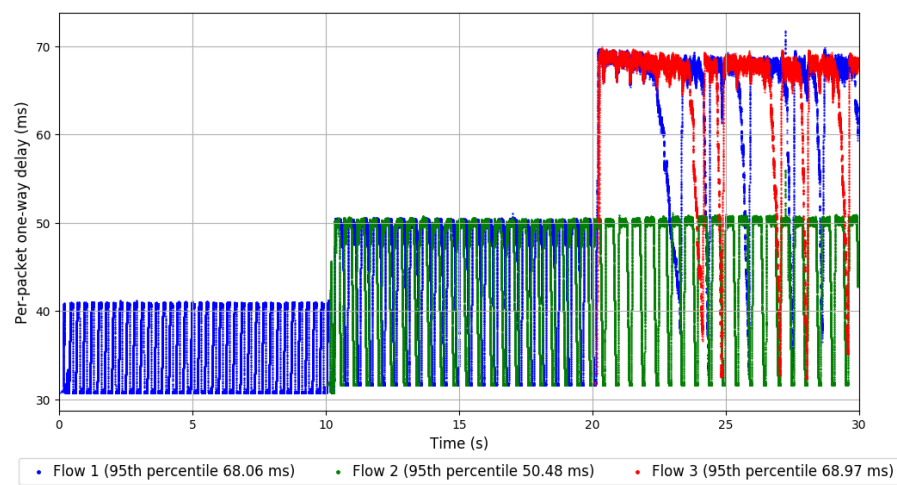
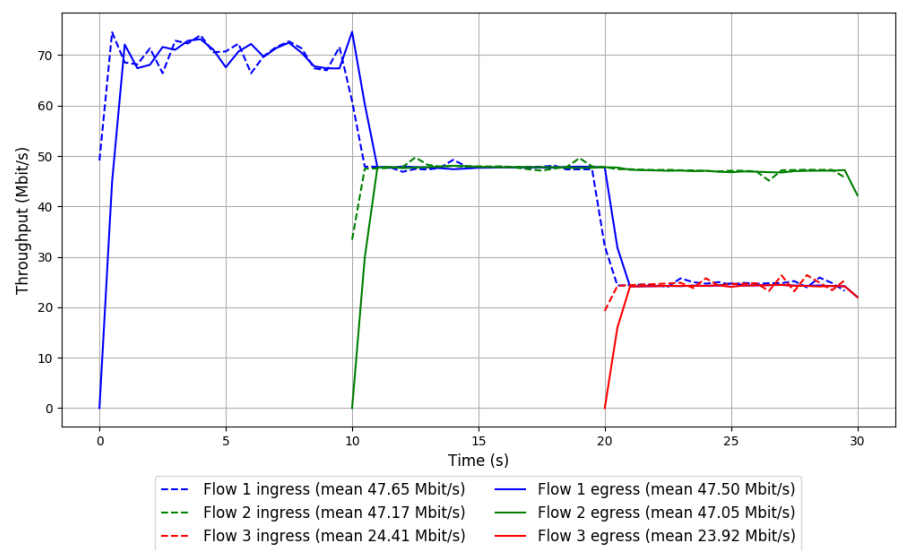
-- Flow 3:

Average throughput: 23.92 Mbit/s

95th percentile per-packet one-way delay: 68.969 ms

Loss rate: 2.65%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-08-02 01:11:59

End at: 2018-08-02 01:12:29

Local clock offset: 0.252 ms

Remote clock offset: 1.978 ms

Below is generated by plot.py at 2018-08-02 04:26:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.24 Mbit/s

95th percentile per-packet one-way delay: 59.411 ms

Loss rate: 1.73%

-- Flow 1:

Average throughput: 49.76 Mbit/s

95th percentile per-packet one-way delay: 59.266 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 39.24 Mbit/s

95th percentile per-packet one-way delay: 59.390 ms

Loss rate: 2.31%

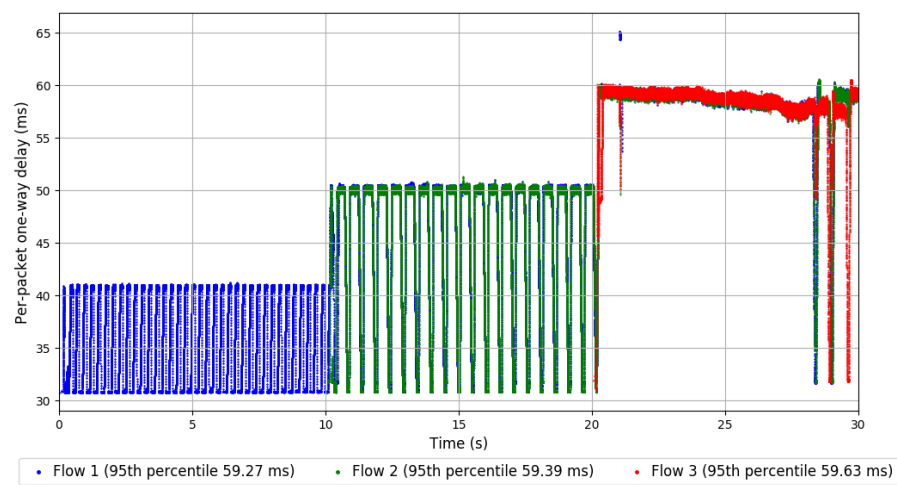
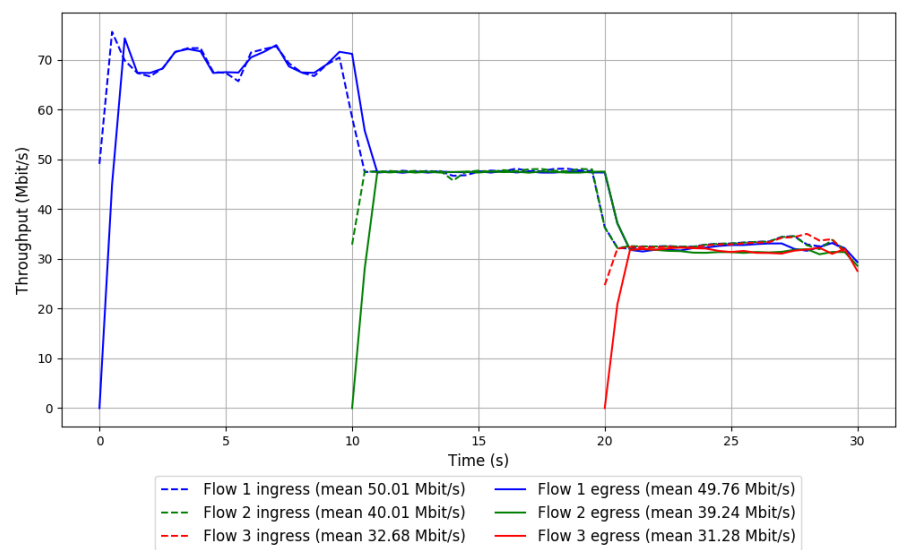
-- Flow 3:

Average throughput: 31.28 Mbit/s

95th percentile per-packet one-way delay: 59.630 ms

Loss rate: 4.92%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-08-02 01:35:05

End at: 2018-08-02 01:35:35

Local clock offset: 0.228 ms

Remote clock offset: 2.694 ms

Below is generated by plot.py at 2018-08-02 04:26:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.31 Mbit/s

95th percentile per-packet one-way delay: 68.208 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 54.64 Mbit/s

95th percentile per-packet one-way delay: 50.436 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 35.68 Mbit/s

95th percentile per-packet one-way delay: 68.571 ms

Loss rate: 1.26%

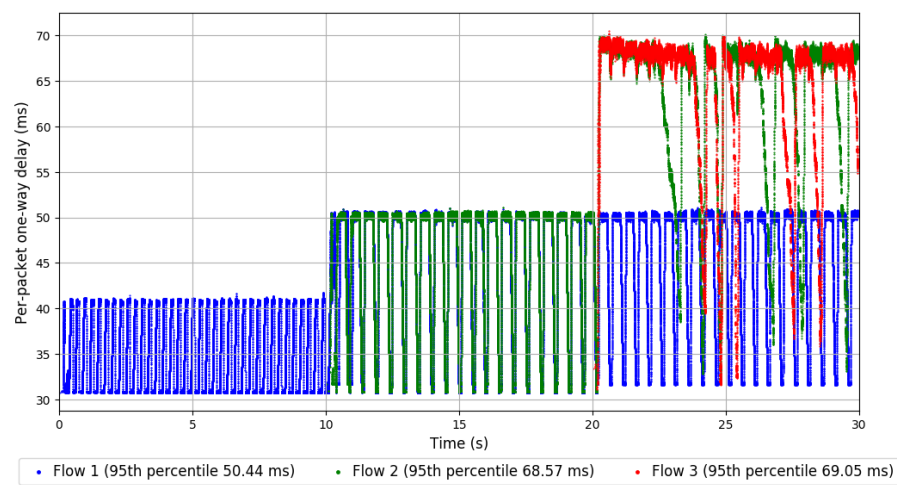
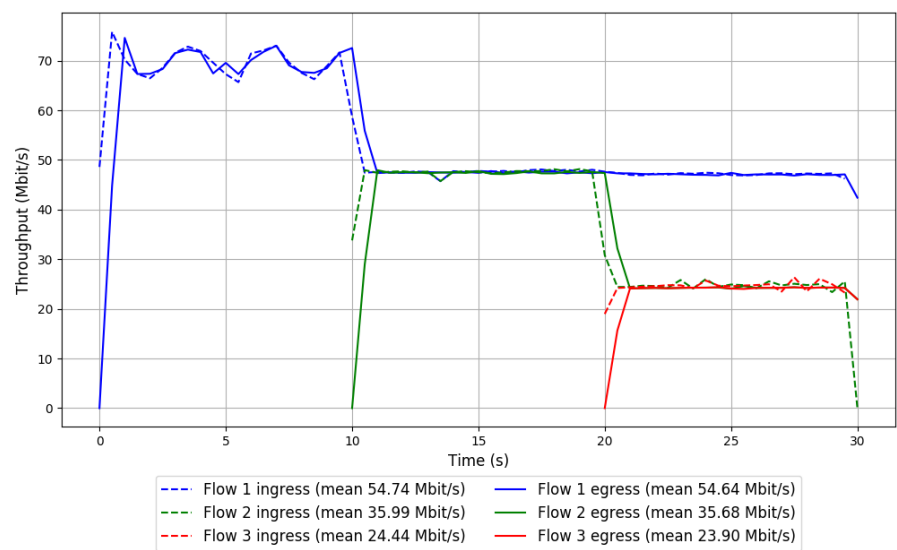
-- Flow 3:

Average throughput: 23.90 Mbit/s

95th percentile per-packet one-way delay: 69.047 ms

Loss rate: 2.83%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-08-02 01:58:07

End at: 2018-08-02 01:58:37

Local clock offset: 0.02 ms

Remote clock offset: 2.341 ms

Below is generated by plot.py at 2018-08-02 04:26:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.59 Mbit/s

95th percentile per-packet one-way delay: 68.054 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 47.47 Mbit/s

95th percentile per-packet one-way delay: 68.076 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 46.81 Mbit/s

95th percentile per-packet one-way delay: 50.500 ms

Loss rate: 0.71%

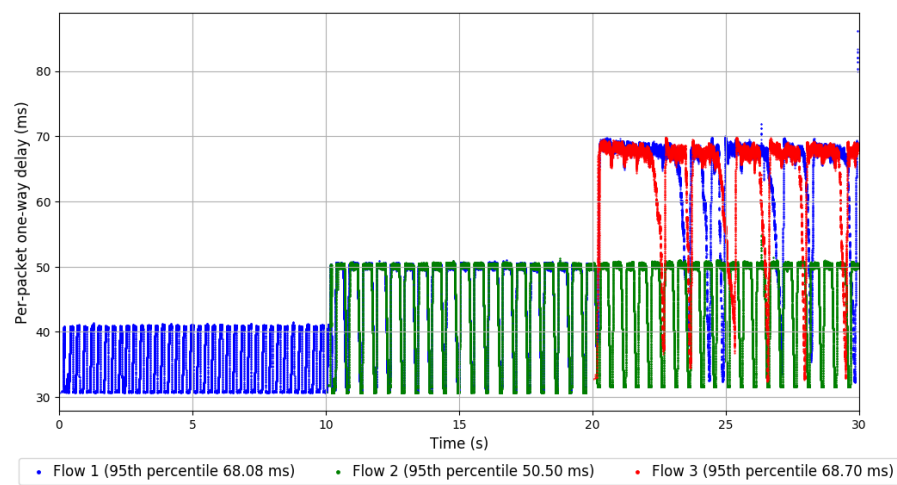
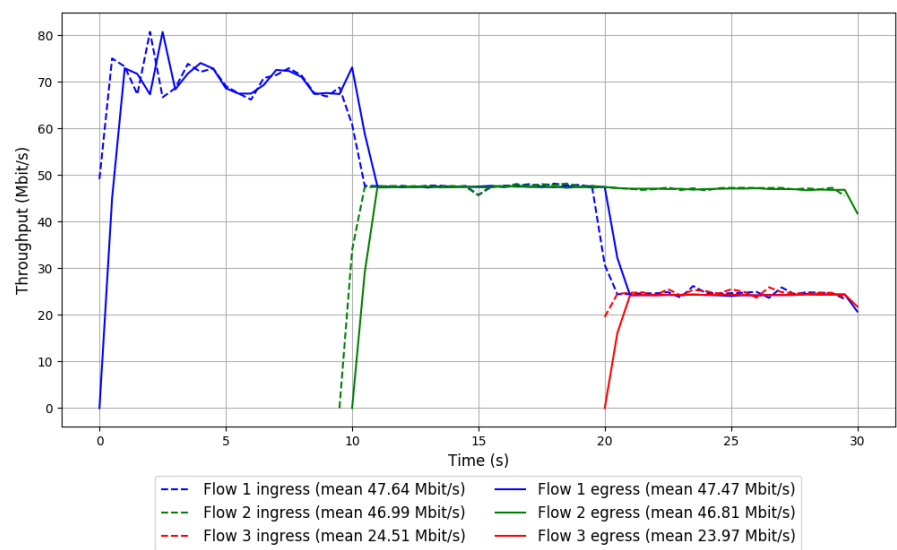
-- Flow 3:

Average throughput: 23.97 Mbit/s

95th percentile per-packet one-way delay: 68.702 ms

Loss rate: 3.03%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-08-02 02:21:12

End at: 2018-08-02 02:21:42

Local clock offset: -0.127 ms

Remote clock offset: 1.884 ms

Below is generated by plot.py at 2018-08-02 04:27:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.45 Mbit/s

95th percentile per-packet one-way delay: 68.379 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 47.30 Mbit/s

95th percentile per-packet one-way delay: 68.341 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 35.78 Mbit/s

95th percentile per-packet one-way delay: 68.700 ms

Loss rate: 1.12%

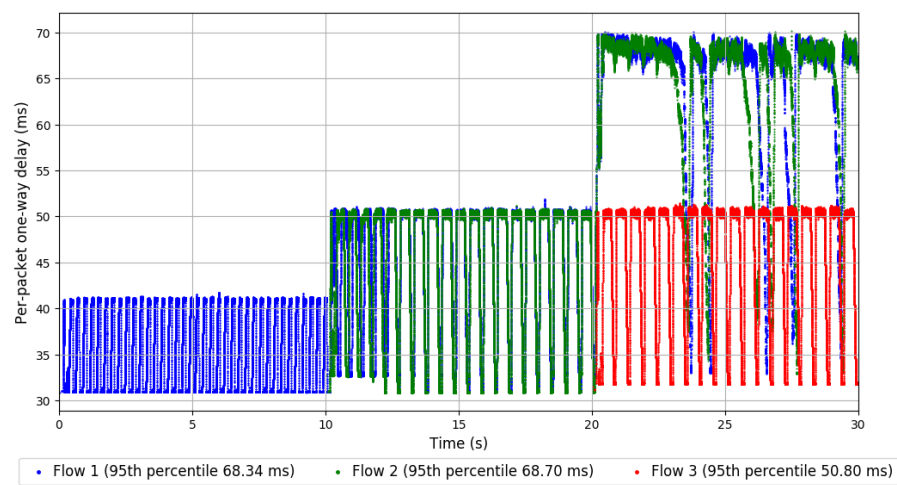
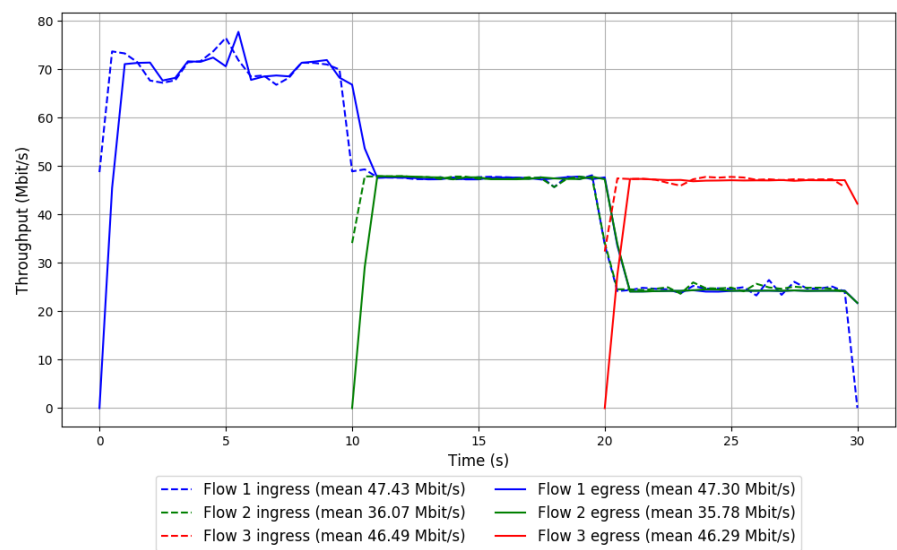
-- Flow 3:

Average throughput: 46.29 Mbit/s

95th percentile per-packet one-way delay: 50.799 ms

Loss rate: 1.19%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-08-02 02:44:25

End at: 2018-08-02 02:44:55

Local clock offset: -3.466 ms

Remote clock offset: 1.752 ms

Below is generated by plot.py at 2018-08-02 04:27:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.32 Mbit/s

95th percentile per-packet one-way delay: 68.599 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 47.19 Mbit/s

95th percentile per-packet one-way delay: 68.550 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 46.88 Mbit/s

95th percentile per-packet one-way delay: 50.668 ms

Loss rate: 0.70%

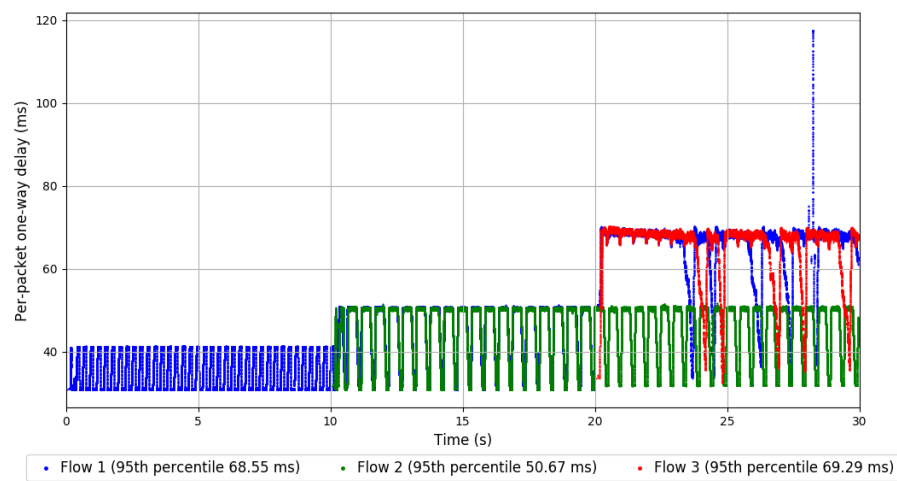
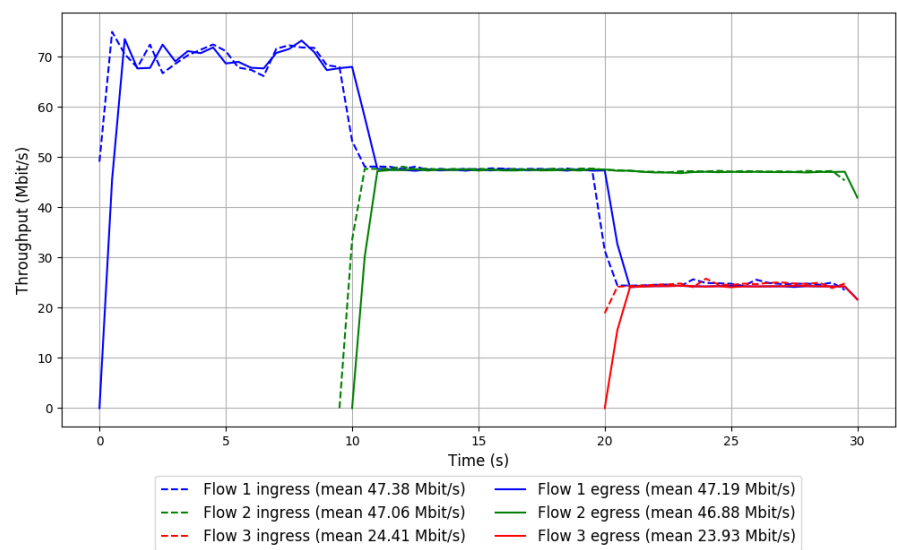
-- Flow 3:

Average throughput: 23.93 Mbit/s

95th percentile per-packet one-way delay: 69.287 ms

Loss rate: 2.85%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-08-02 03:07:17

End at: 2018-08-02 03:07:47

Local clock offset: -4.919 ms

Remote clock offset: 2.082 ms

Below is generated by plot.py at 2018-08-02 04:27:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.40 Mbit/s

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

Loss rate: 0.83%

-- Flow 1:

Average throughput: 47.29 Mbit/s

95th percentile per-packet one-way delay: 68.217 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 46.82 Mbit/s

95th percentile per-packet one-way delay: 50.567 ms

Loss rate: 0.76%

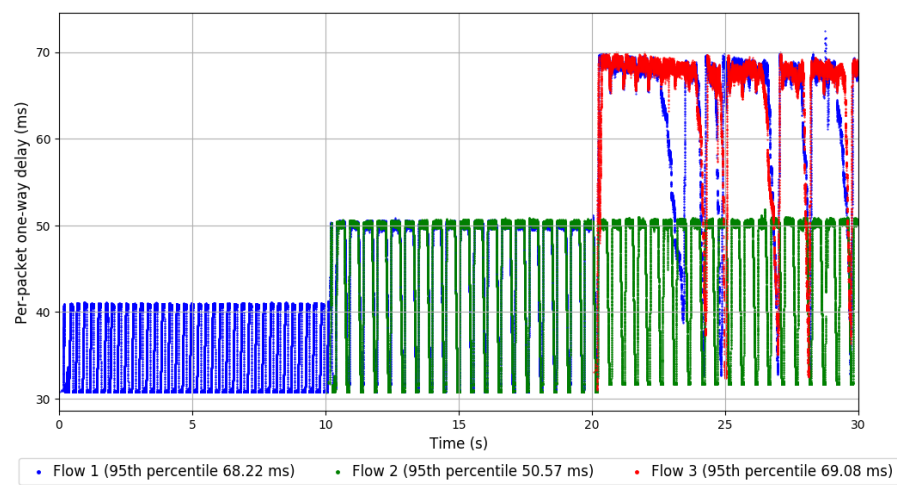
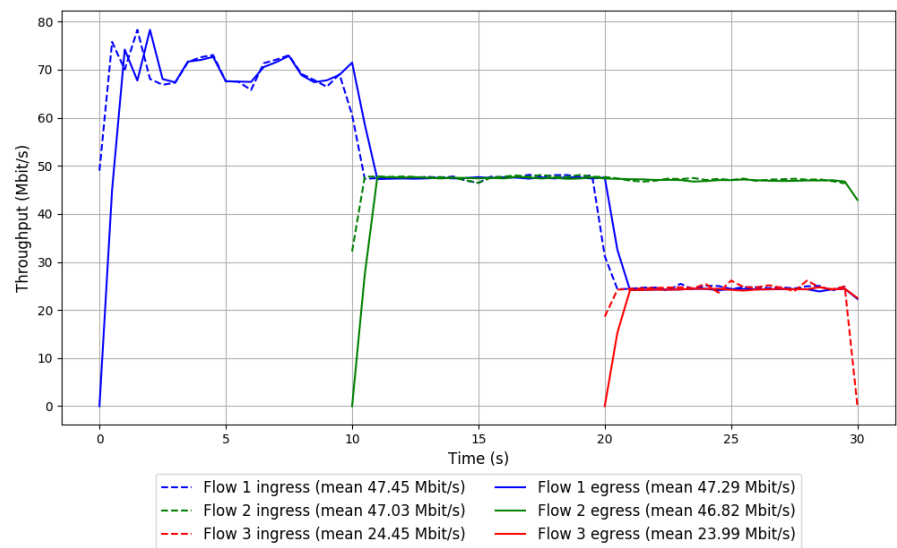
-- Flow 3:

Average throughput: 23.99 Mbit/s

95th percentile per-packet one-way delay: 69.085 ms

Loss rate: 2.70%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-08-02 03:30:23

End at: 2018-08-02 03:30:53

Local clock offset: -1.699 ms

Remote clock offset: 2.714 ms

Below is generated by plot.py at 2018-08-02 04:28:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.48 Mbit/s

95th percentile per-packet one-way delay: 68.191 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 47.39 Mbit/s

95th percentile per-packet one-way delay: 68.116 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 35.69 Mbit/s

95th percentile per-packet one-way delay: 68.534 ms

Loss rate: 1.06%

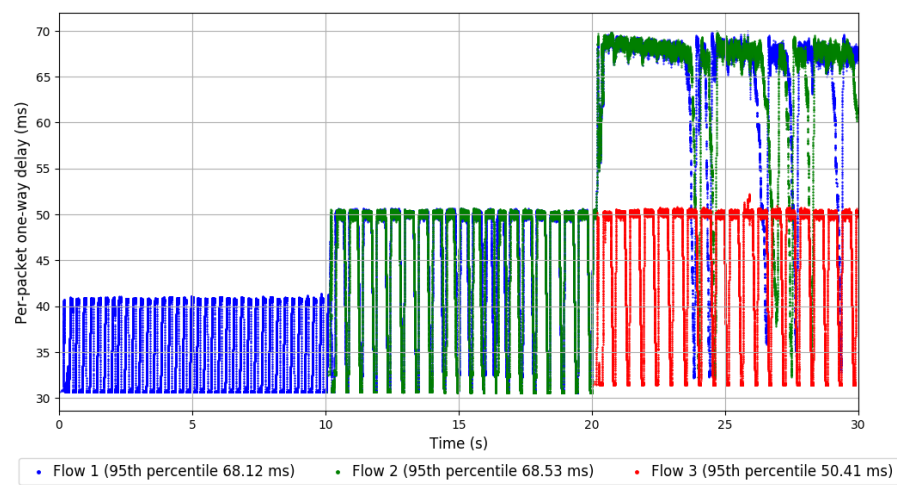
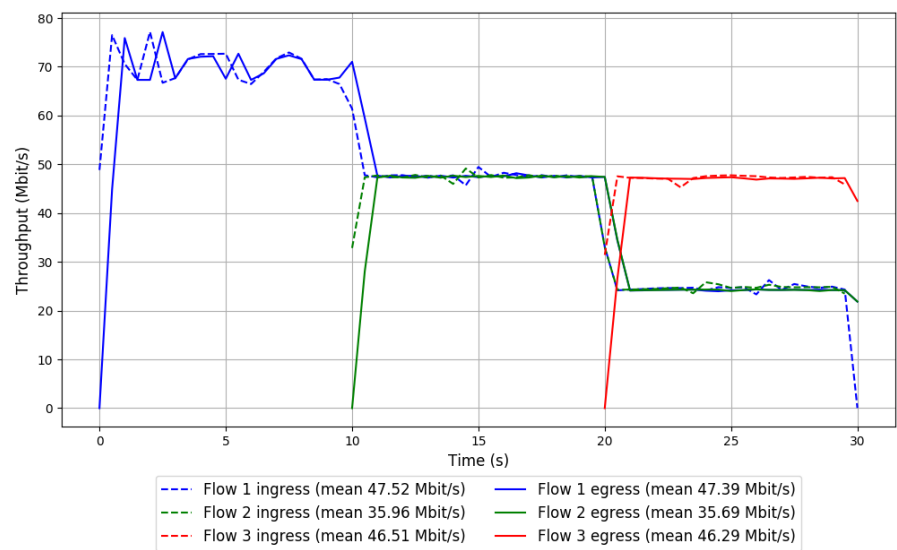
-- Flow 3:

Average throughput: 46.29 Mbit/s

95th percentile per-packet one-way delay: 50.408 ms

Loss rate: 1.12%

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

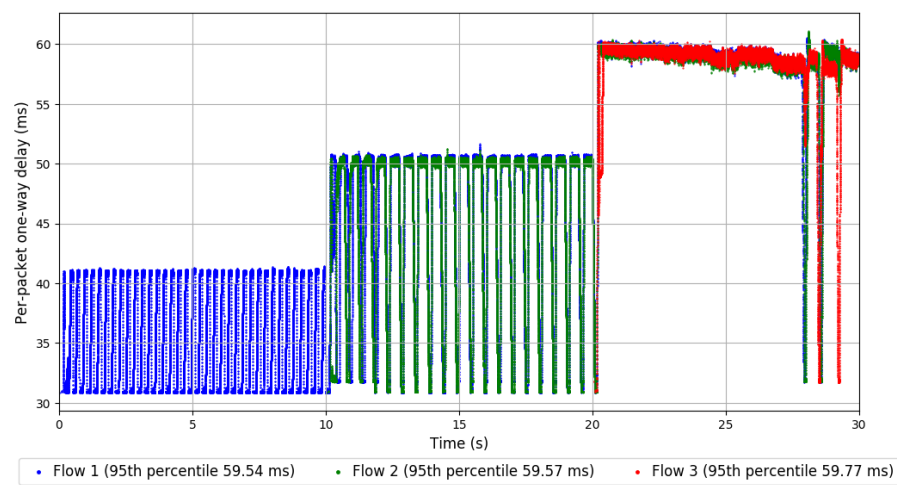
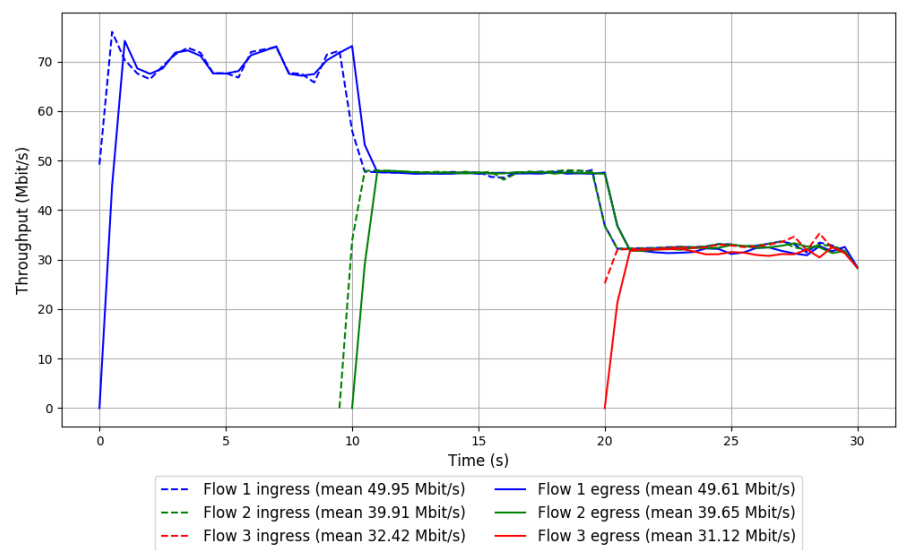


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-08-02 03:53:24
End at: 2018-08-02 03:53:54
Local clock offset: 2.043 ms
Remote clock offset: 2.509 ms

# Below is generated by plot.py at 2018-08-02 04:28:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.32 Mbit/s
95th percentile per-packet one-way delay: 59.614 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 49.61 Mbit/s
95th percentile per-packet one-way delay: 59.543 ms
Loss rate: 0.91%
-- Flow 2:
Average throughput: 39.65 Mbit/s
95th percentile per-packet one-way delay: 59.568 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 31.12 Mbit/s
95th percentile per-packet one-way delay: 59.775 ms
Loss rate: 4.64%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-08-02 00:32:55

End at: 2018-08-02 00:33:25

Local clock offset: 0.065 ms

Remote clock offset: 1.789 ms

Below is generated by plot.py at 2018-08-02 04:28:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.82 Mbit/s

95th percentile per-packet one-way delay: 32.862 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 52.54 Mbit/s

95th percentile per-packet one-way delay: 34.369 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 34.25 Mbit/s

95th percentile per-packet one-way delay: 32.767 ms

Loss rate: 0.33%

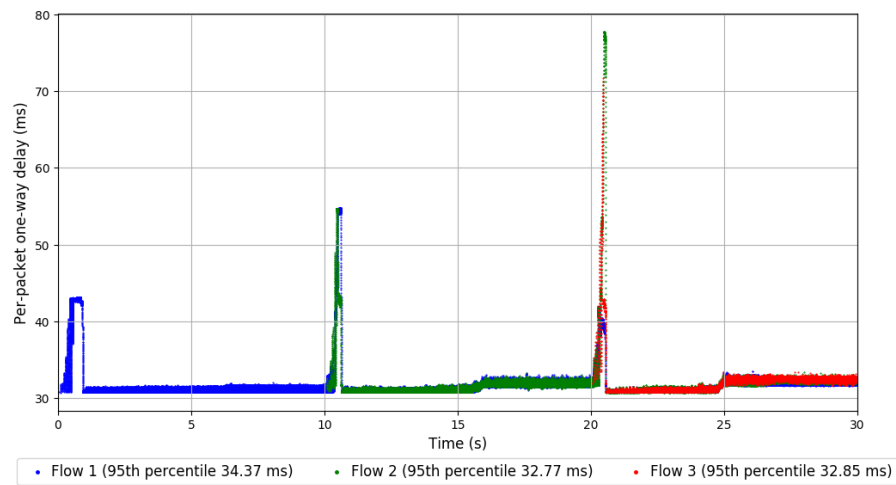
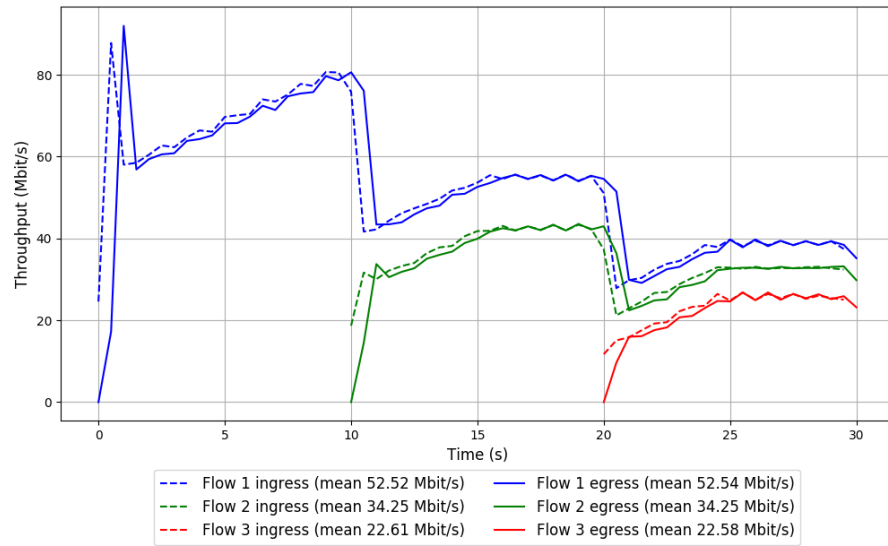
-- Flow 3:

Average throughput: 22.58 Mbit/s

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

Loss rate: 0.76%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-08-02 00:55:46

End at: 2018-08-02 00:56:16

Local clock offset: 0.253 ms

Remote clock offset: 1.328 ms

Below is generated by plot.py at 2018-08-02 04:28:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.32 Mbit/s

95th percentile per-packet one-way delay: 34.797 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 47.76 Mbit/s

95th percentile per-packet one-way delay: 35.975 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 34.22 Mbit/s

95th percentile per-packet one-way delay: 33.162 ms

Loss rate: 0.33%

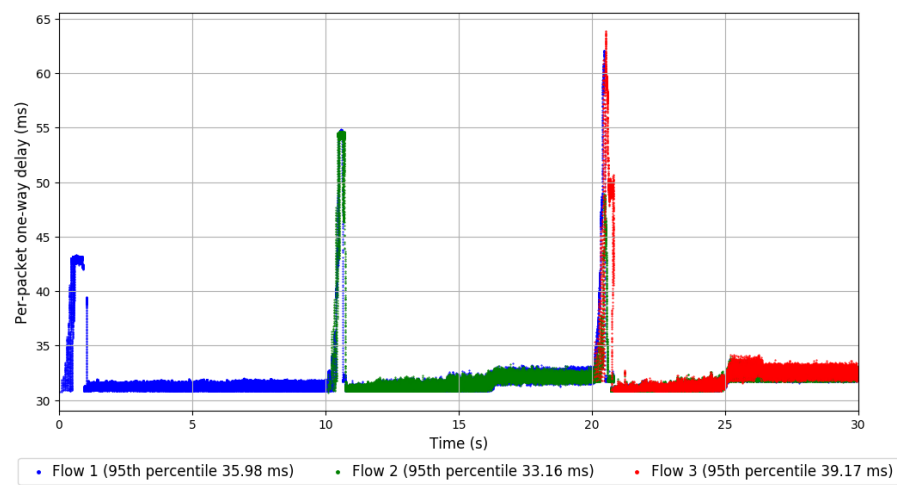
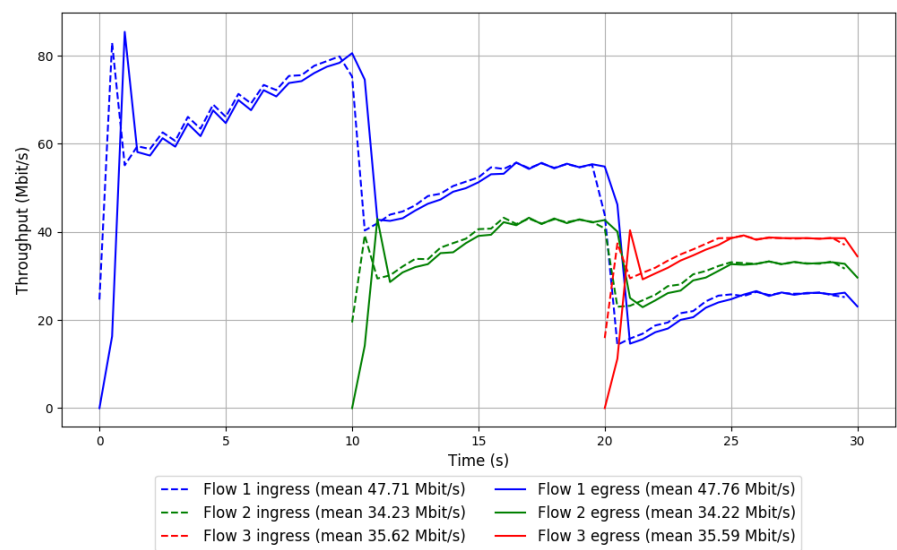
-- Flow 3:

Average throughput: 35.59 Mbit/s

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

Loss rate: 0.73%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-08-02 01:18:46

End at: 2018-08-02 01:19:16

Local clock offset: 0.158 ms

Remote clock offset: 2.285 ms

Below is generated by plot.py at 2018-08-02 04:28:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.25 Mbit/s

95th percentile per-packet one-way delay: 36.266 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 42.57 Mbit/s

95th percentile per-packet one-way delay: 37.550 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 31.82 Mbit/s

95th percentile per-packet one-way delay: 35.182 ms

Loss rate: 0.30%

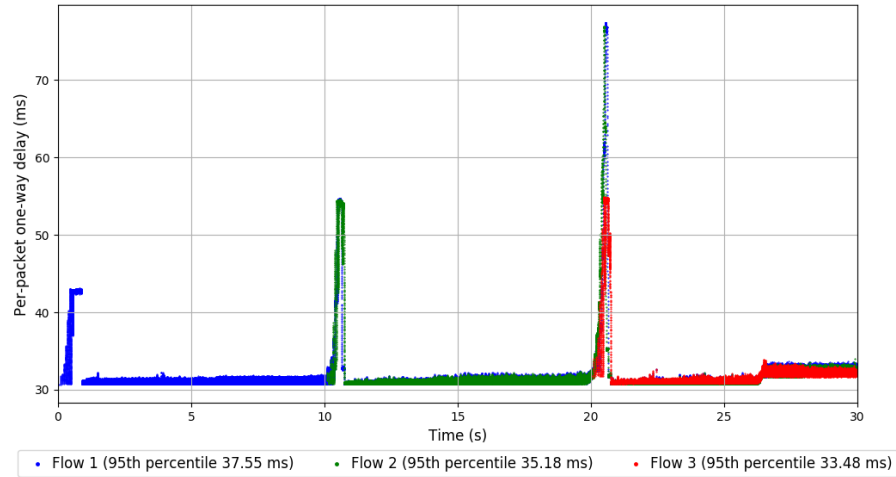
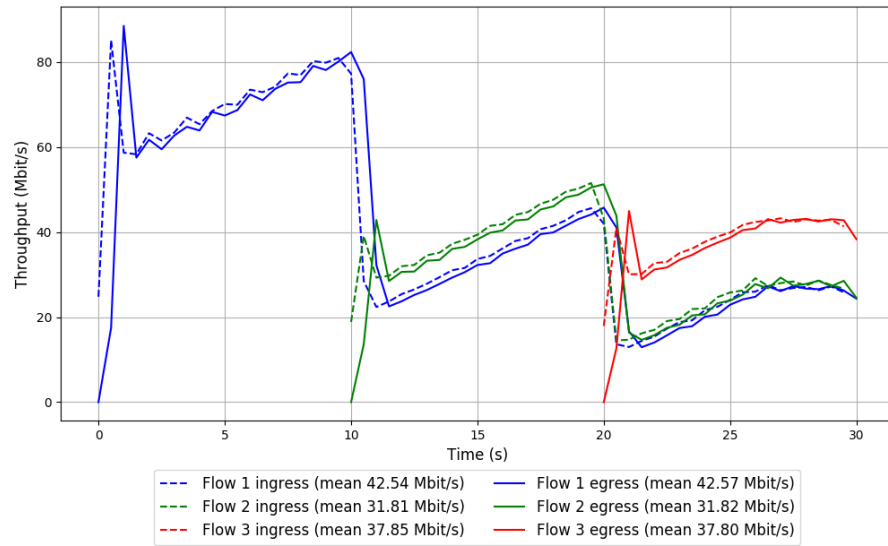
-- Flow 3:

Average throughput: 37.80 Mbit/s

95th percentile per-packet one-way delay: 33.479 ms

Loss rate: 0.77%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-08-02 01:41:51

End at: 2018-08-02 01:42:21

Local clock offset: 0.208 ms

Remote clock offset: 2.458 ms

Below is generated by plot.py at 2018-08-02 04:28:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.66 Mbit/s

95th percentile per-packet one-way delay: 36.450 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 41.94 Mbit/s

95th percentile per-packet one-way delay: 40.357 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 32.09 Mbit/s

95th percentile per-packet one-way delay: 33.220 ms

Loss rate: 0.30%

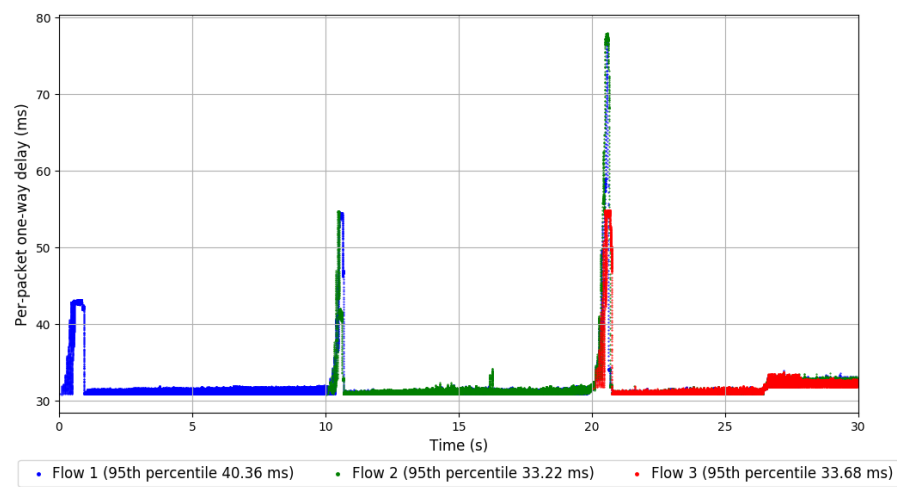
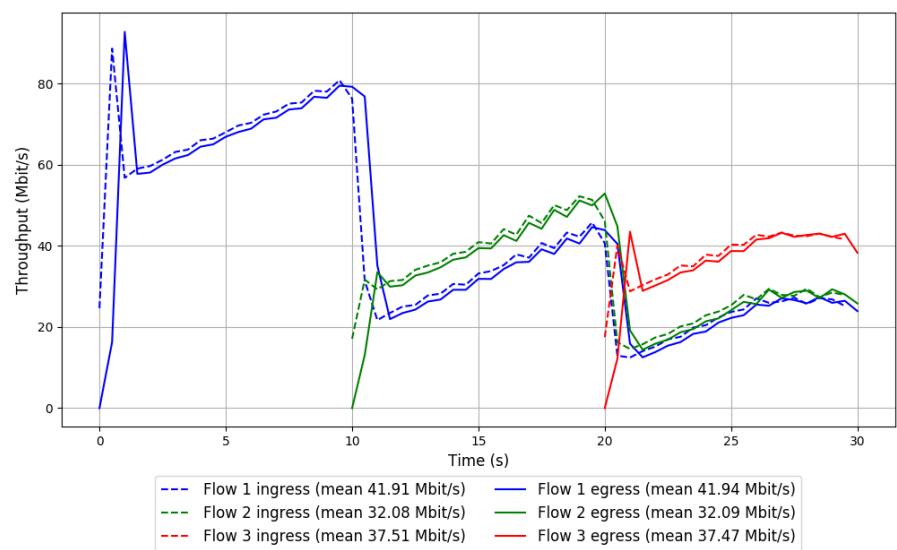
-- Flow 3:

Average throughput: 37.47 Mbit/s

95th percentile per-packet one-way delay: 33.680 ms

Loss rate: 0.77%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-08-02 02:04:51

End at: 2018-08-02 02:05:21

Local clock offset: 0.062 ms

Remote clock offset: 2.329 ms

Below is generated by plot.py at 2018-08-02 04:28:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.63 Mbit/s

95th percentile per-packet one-way delay: 34.155 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 48.24 Mbit/s

95th percentile per-packet one-way delay: 37.125 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 33.96 Mbit/s

95th percentile per-packet one-way delay: 33.589 ms

Loss rate: 0.33%

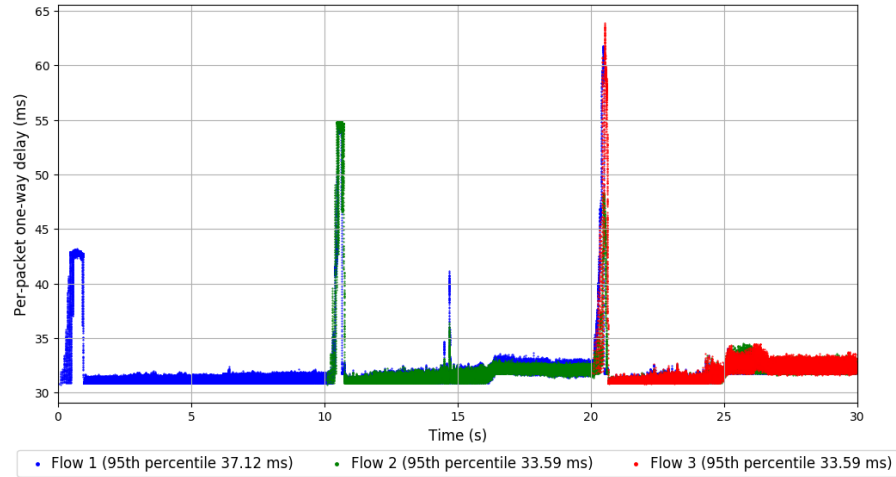
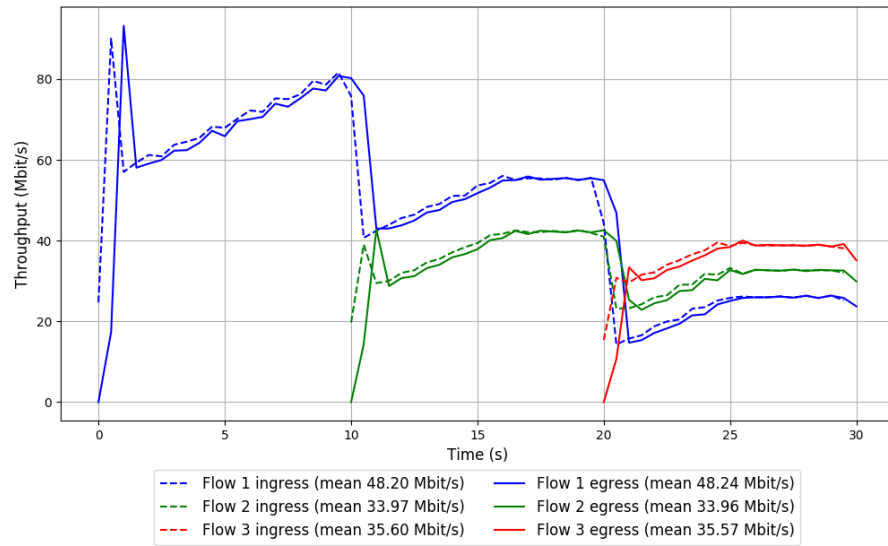
-- Flow 3:

Average throughput: 35.57 Mbit/s

95th percentile per-packet one-way delay: 33.592 ms

Loss rate: 0.73%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-08-02 02:28:05

End at: 2018-08-02 02:28:35

Local clock offset: -1.672 ms

Remote clock offset: 1.794 ms

Below is generated by plot.py at 2018-08-02 04:28:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.99 Mbit/s

95th percentile per-packet one-way delay: 33.582 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 51.30 Mbit/s

95th percentile per-packet one-way delay: 34.512 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 32.70 Mbit/s

95th percentile per-packet one-way delay: 32.850 ms

Loss rate: 0.29%

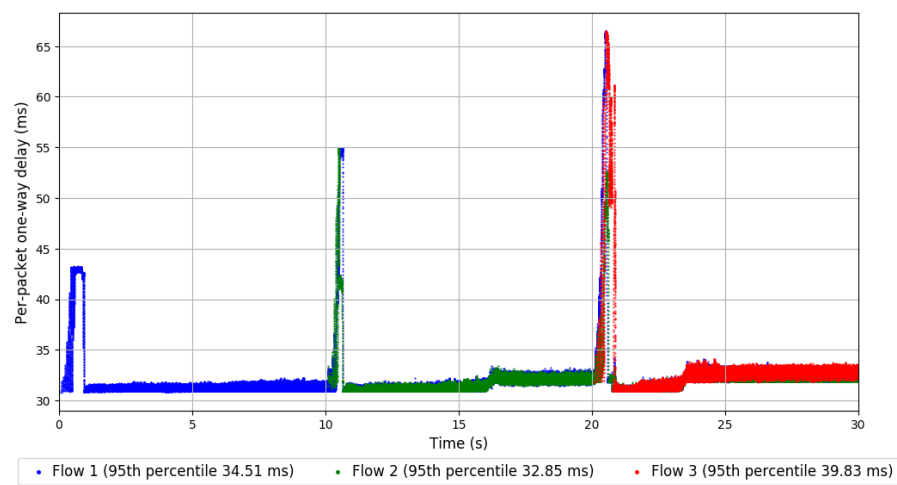
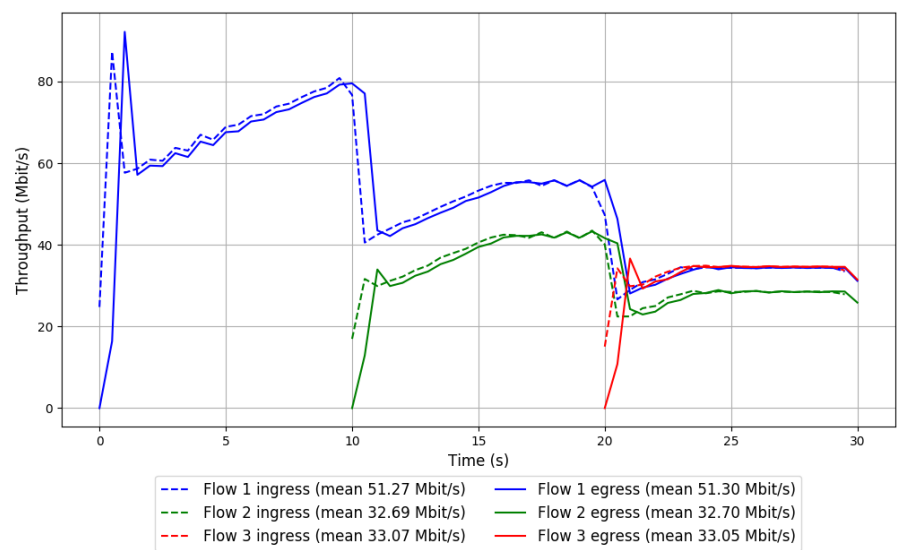
-- Flow 3:

Average throughput: 33.05 Mbit/s

95th percentile per-packet one-way delay: 39.834 ms

Loss rate: 0.71%

Run 6: Report of TCP Vegas — Data Link

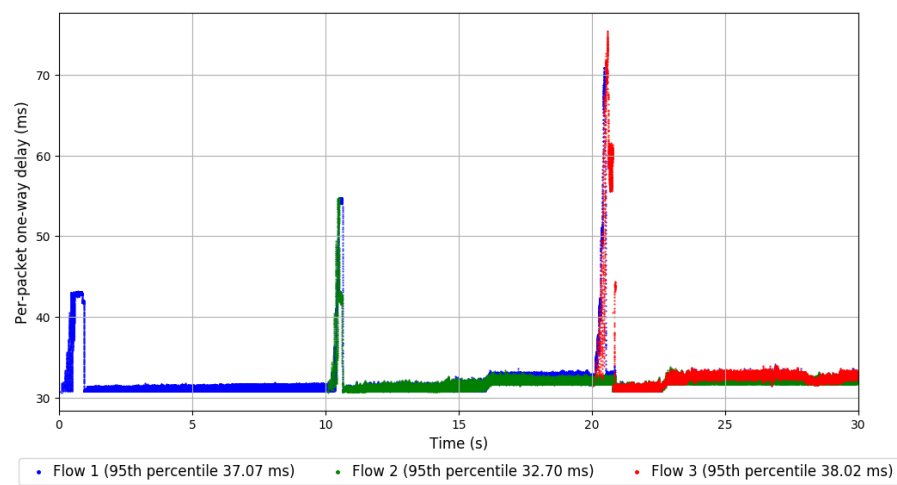
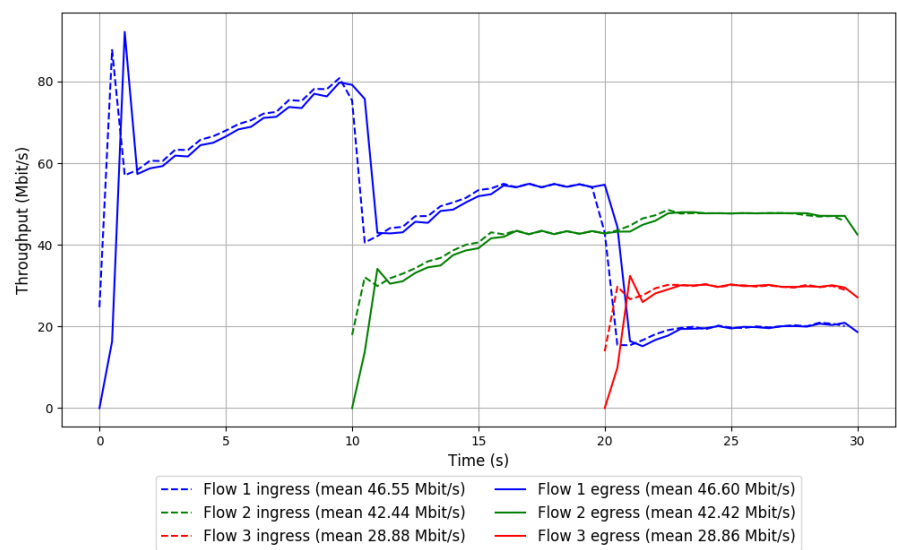


Run 7: Statistics of TCP Vegas

Start at: 2018-08-02 02:51:10
End at: 2018-08-02 02:51:40
Local clock offset: -4.031 ms
Remote clock offset: 1.939 ms

Below is generated by plot.py at 2018-08-02 04:28:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.38 Mbit/s
95th percentile per-packet one-way delay: 33.193 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 46.60 Mbit/s
95th percentile per-packet one-way delay: 37.072 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 42.42 Mbit/s
95th percentile per-packet one-way delay: 32.703 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 28.86 Mbit/s
95th percentile per-packet one-way delay: 38.017 ms
Loss rate: 0.70%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-08-02 03:13:59

End at: 2018-08-02 03:14:29

Local clock offset: -5.222 ms

Remote clock offset: 2.12 ms

Below is generated by plot.py at 2018-08-02 04:28:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.62 Mbit/s

95th percentile per-packet one-way delay: 34.492 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 48.29 Mbit/s

95th percentile per-packet one-way delay: 36.866 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 29.85 Mbit/s

95th percentile per-packet one-way delay: 33.409 ms

Loss rate: 0.30%

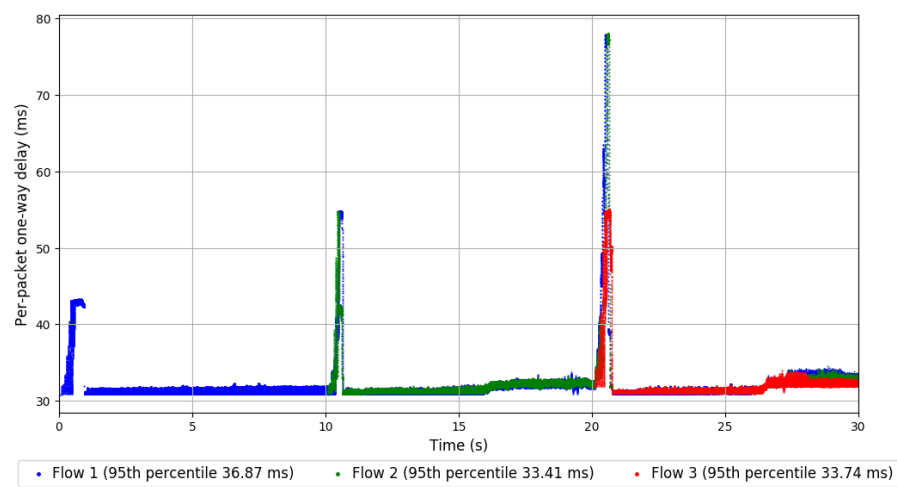
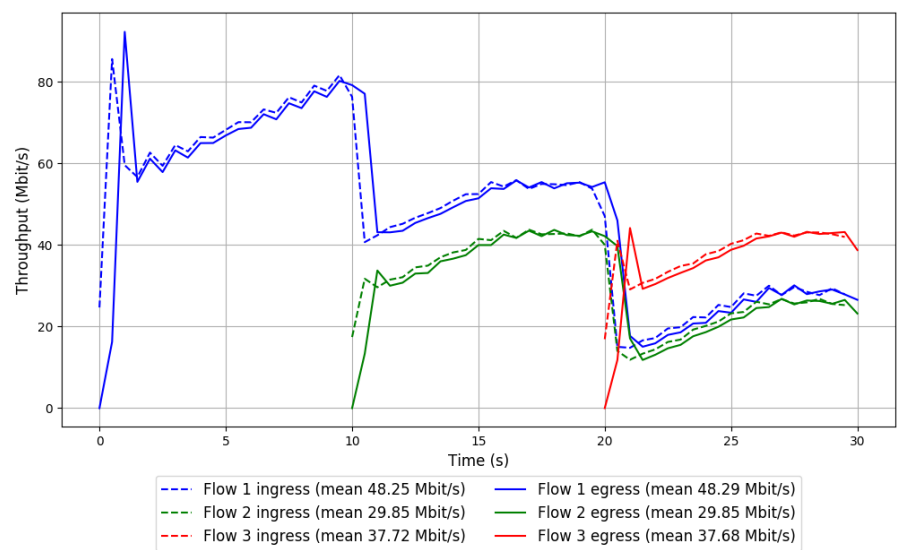
-- Flow 3:

Average throughput: 37.68 Mbit/s

95th percentile per-packet one-way delay: 33.742 ms

Loss rate: 0.76%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-08-02 03:37:07

End at: 2018-08-02 03:37:37

Local clock offset: -0.021 ms

Remote clock offset: 2.876 ms

Below is generated by plot.py at 2018-08-02 04:28:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.59 Mbit/s

95th percentile per-packet one-way delay: 33.557 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 46.47 Mbit/s

95th percentile per-packet one-way delay: 37.921 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 42.15 Mbit/s

95th percentile per-packet one-way delay: 32.502 ms

Loss rate: 0.38%

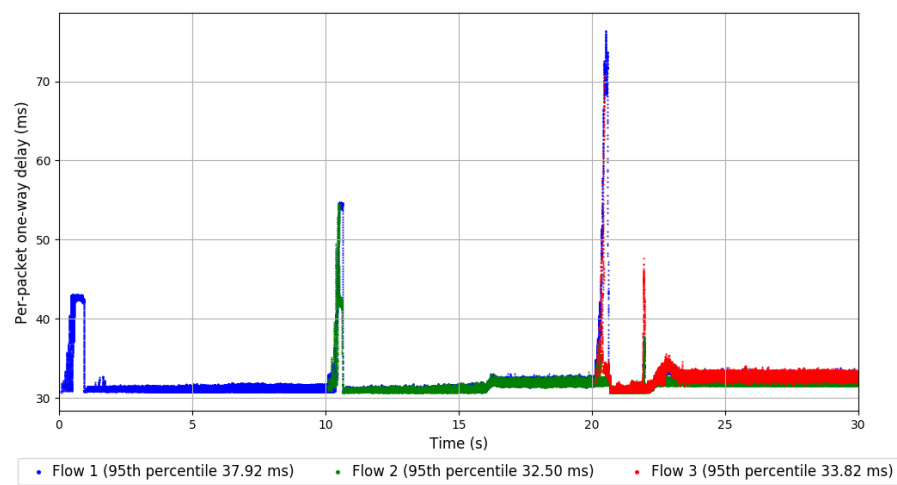
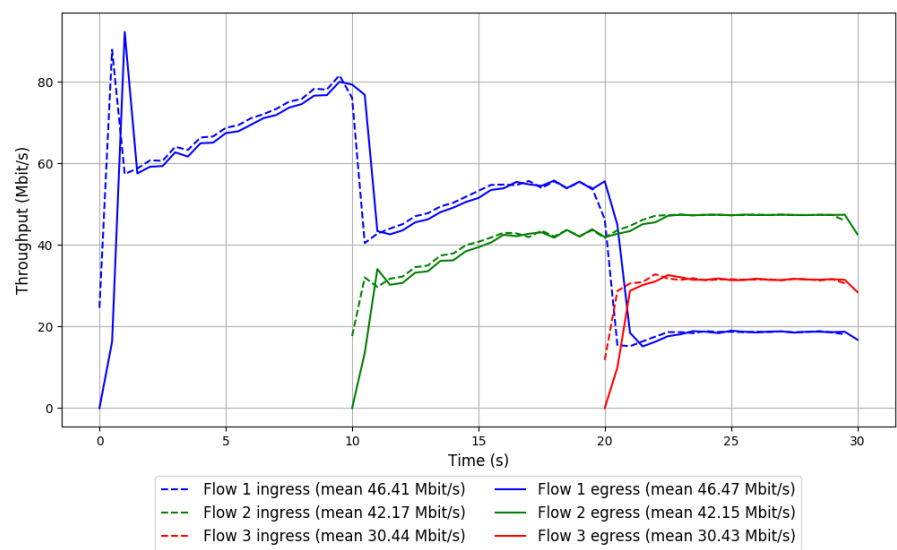
-- Flow 3:

Average throughput: 30.43 Mbit/s

95th percentile per-packet one-way delay: 33.823 ms

Loss rate: 0.69%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-08-02 04:00:10

End at: 2018-08-02 04:00:40

Local clock offset: 1.431 ms

Remote clock offset: 1.831 ms

Below is generated by plot.py at 2018-08-02 04:28:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.54 Mbit/s

95th percentile per-packet one-way delay: 33.663 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 51.88 Mbit/s

95th percentile per-packet one-way delay: 34.126 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 28.95 Mbit/s

95th percentile per-packet one-way delay: 33.978 ms

Loss rate: 0.26%

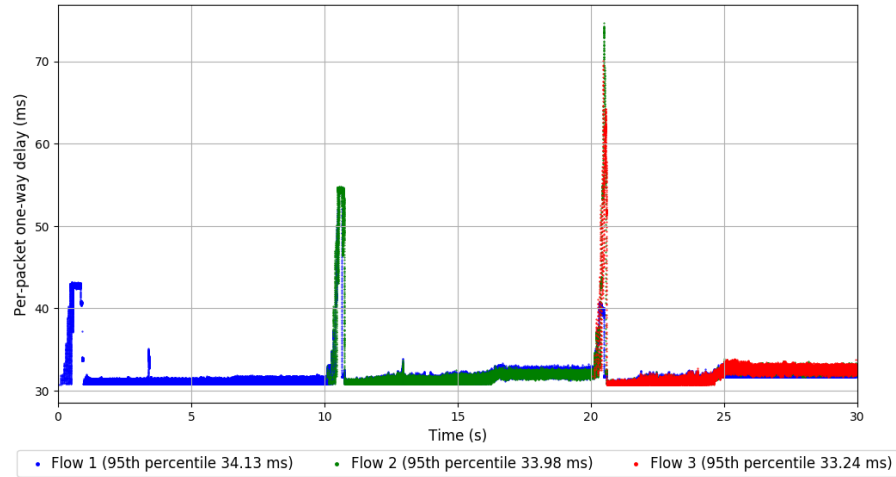
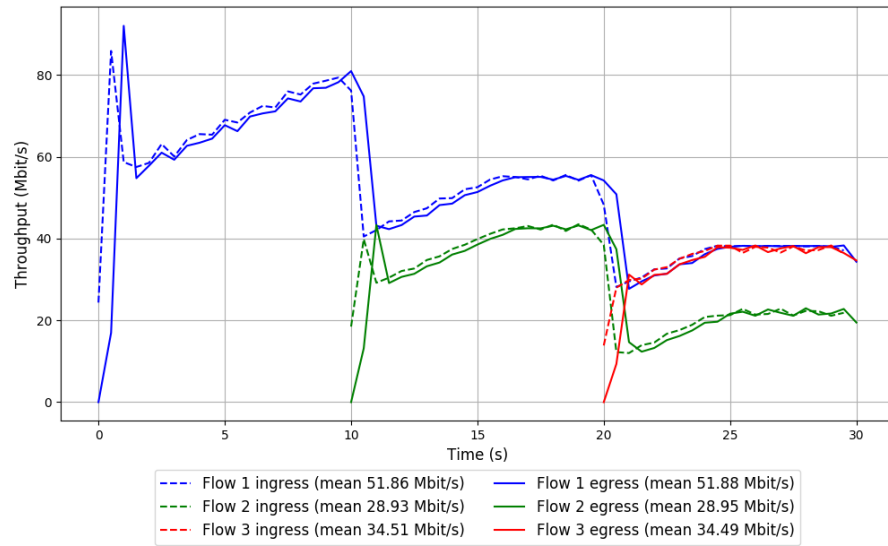
-- Flow 3:

Average throughput: 34.49 Mbit/s

95th percentile per-packet one-way delay: 33.236 ms

Loss rate: 0.74%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-08-02 00:20:53

End at: 2018-08-02 00:21:23

Local clock offset: -0.29 ms

Remote clock offset: 2.309 ms

Below is generated by plot.py at 2018-08-02 04:29:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.63 Mbit/s

95th percentile per-packet one-way delay: 67.788 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 57.65 Mbit/s

95th percentile per-packet one-way delay: 54.116 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 34.84 Mbit/s

95th percentile per-packet one-way delay: 75.906 ms

Loss rate: 0.58%

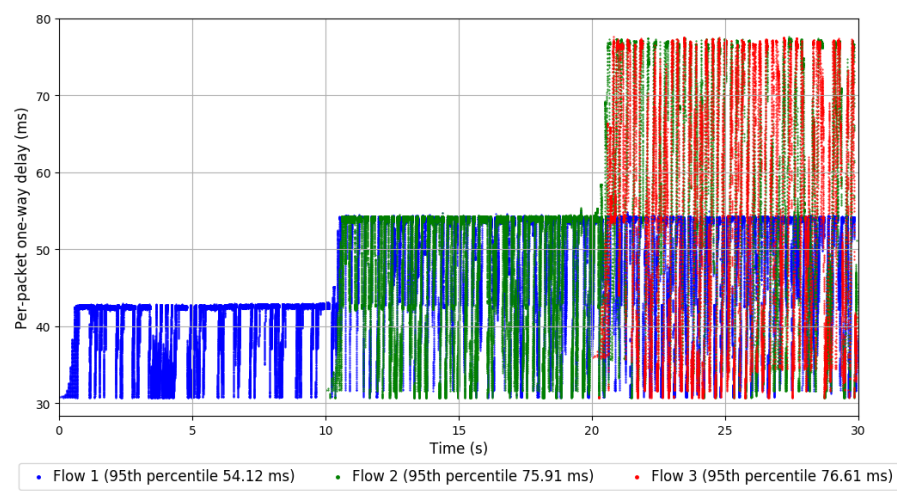
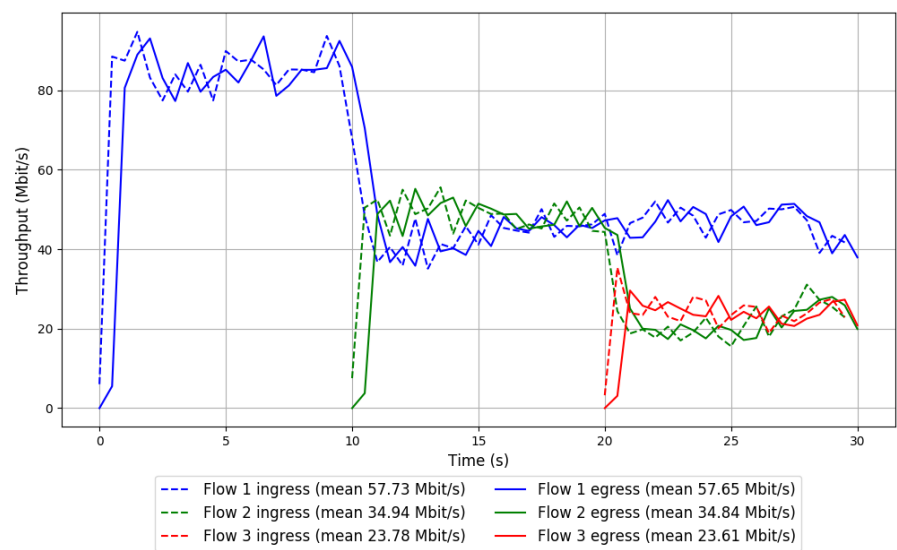
-- Flow 3:

Average throughput: 23.61 Mbit/s

95th percentile per-packet one-way delay: 76.614 ms

Loss rate: 1.39%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-08-02 00:43:42

End at: 2018-08-02 00:44:12

Local clock offset: 0.193 ms

Remote clock offset: 1.324 ms

Below is generated by plot.py at 2018-08-02 04:29:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.10 Mbit/s

95th percentile per-packet one-way delay: 70.612 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 51.06 Mbit/s

95th percentile per-packet one-way delay: 67.803 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 43.81 Mbit/s

95th percentile per-packet one-way delay: 54.430 ms

Loss rate: 0.68%

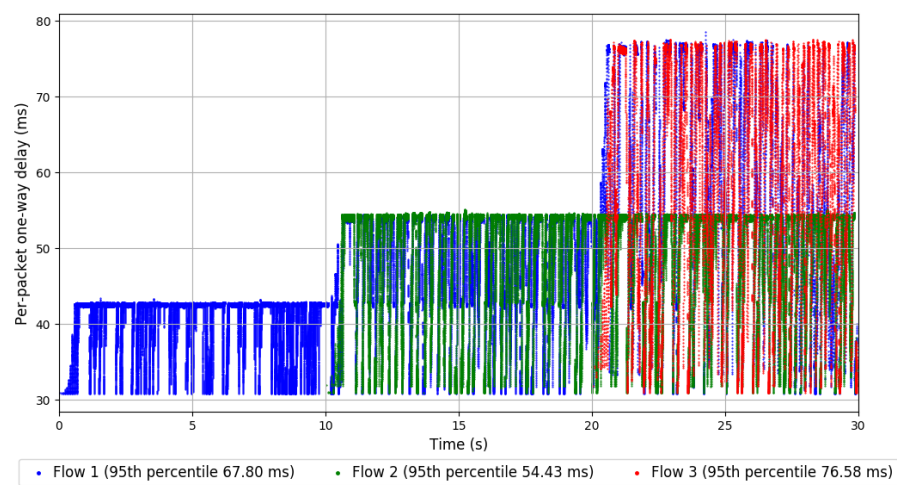
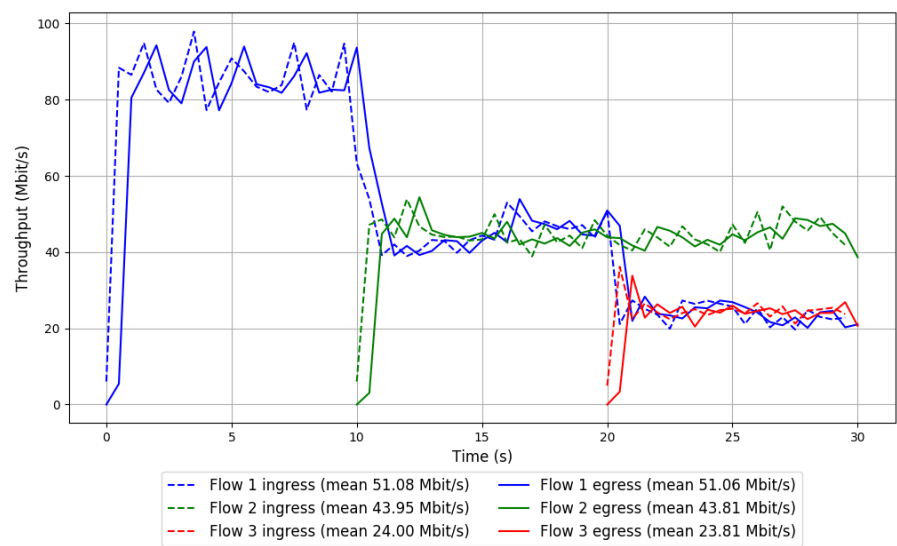
-- Flow 3:

Average throughput: 23.81 Mbit/s

95th percentile per-packet one-way delay: 76.579 ms

Loss rate: 1.43%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-08-02 01:06:38

End at: 2018-08-02 01:07:08

Local clock offset: 0.262 ms

Remote clock offset: 1.707 ms

Below is generated by plot.py at 2018-08-02 04:29:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.97 Mbit/s

95th percentile per-packet one-way delay: 64.891 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 50.25 Mbit/s

95th percentile per-packet one-way delay: 60.713 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 36.42 Mbit/s

95th percentile per-packet one-way delay: 74.388 ms

Loss rate: 0.49%

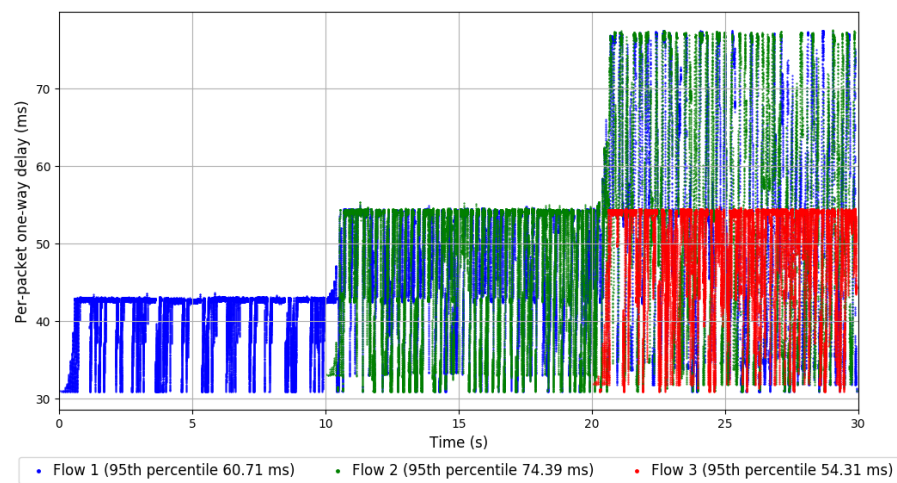
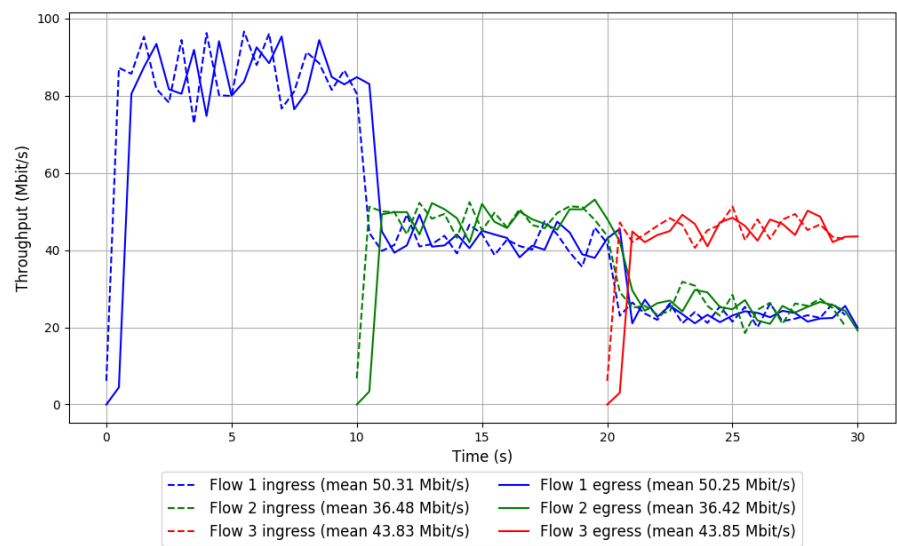
-- Flow 3:

Average throughput: 43.85 Mbit/s

95th percentile per-packet one-way delay: 54.307 ms

Loss rate: 0.72%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-08-02 01:29:44

End at: 2018-08-02 01:30:14

Local clock offset: 0.24 ms

Remote clock offset: 2.527 ms

Below is generated by plot.py at 2018-08-02 04:29:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.86 Mbit/s

95th percentile per-packet one-way delay: 66.963 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 59.54 Mbit/s

95th percentile per-packet one-way delay: 54.282 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 32.61 Mbit/s

95th percentile per-packet one-way delay: 76.390 ms

Loss rate: 0.43%

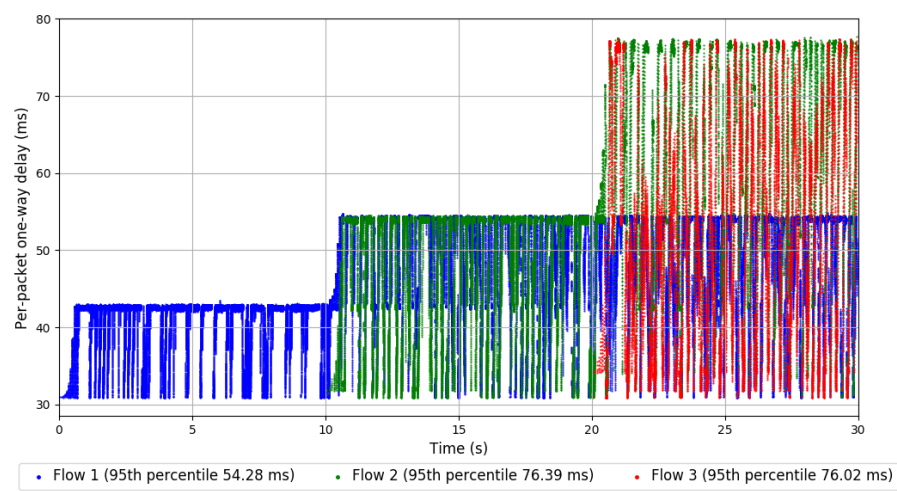
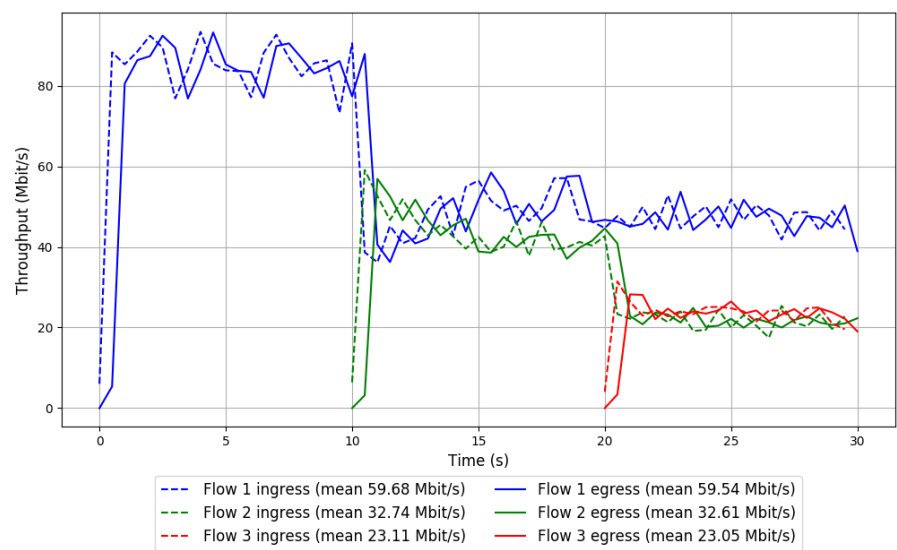
-- Flow 3:

Average throughput: 23.05 Mbit/s

95th percentile per-packet one-way delay: 76.023 ms

Loss rate: 0.83%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-08-02 01:52:46

End at: 2018-08-02 01:53:16

Local clock offset: 0.019 ms

Remote clock offset: 2.311 ms

Below is generated by plot.py at 2018-08-02 04:29:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.17 Mbit/s

95th percentile per-packet one-way delay: 65.227 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 53.64 Mbit/s

95th percentile per-packet one-way delay: 62.878 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 37.21 Mbit/s

95th percentile per-packet one-way delay: 65.361 ms

Loss rate: 0.60%

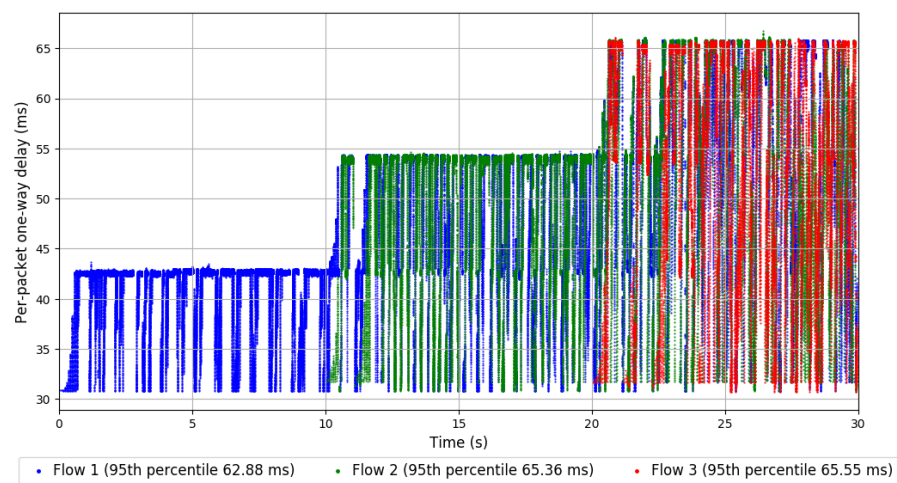
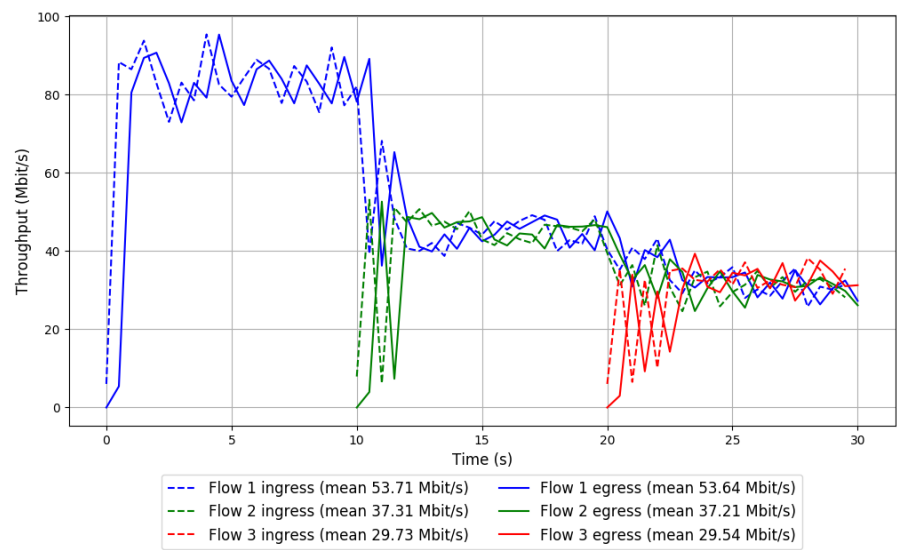
-- Flow 3:

Average throughput: 29.54 Mbit/s

95th percentile per-packet one-way delay: 65.550 ms

Loss rate: 1.46%

Run 5: Report of Verus — Data Link

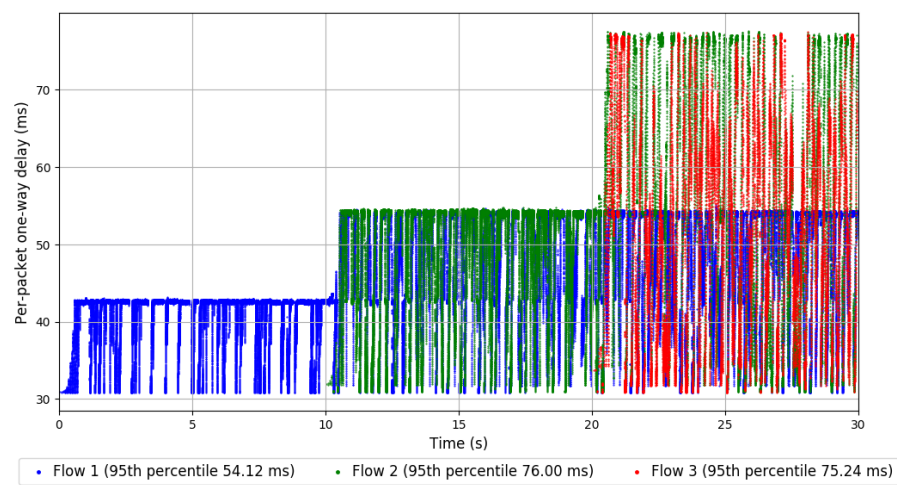
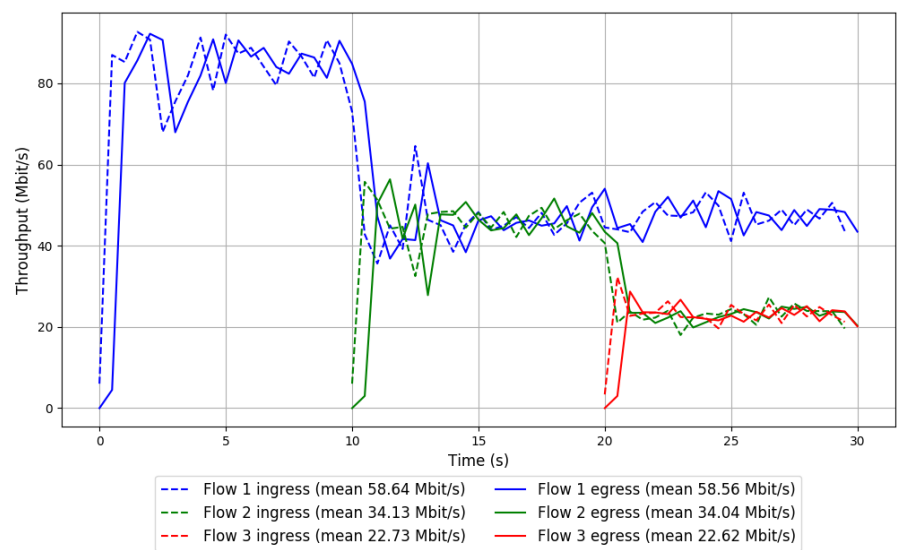


Run 6: Statistics of Verus

Start at: 2018-08-02 02:15:51
End at: 2018-08-02 02:16:21
Local clock offset: -0.044 ms
Remote clock offset: 2.012 ms

Below is generated by plot.py at 2018-08-02 04:29:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.68 Mbit/s
95th percentile per-packet one-way delay: 64.028 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 58.56 Mbit/s
95th percentile per-packet one-way delay: 54.122 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 34.04 Mbit/s
95th percentile per-packet one-way delay: 75.999 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 22.62 Mbit/s
95th percentile per-packet one-way delay: 75.242 ms
Loss rate: 1.06%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-08-02 02:39:02

End at: 2018-08-02 02:39:32

Local clock offset: -3.052 ms

Remote clock offset: 1.669 ms

Below is generated by plot.py at 2018-08-02 04:29:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.90 Mbit/s

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

Loss rate: 0.32%

-- Flow 1:

Average throughput: 51.76 Mbit/s

95th percentile per-packet one-way delay: 65.197 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 39.37 Mbit/s

95th percentile per-packet one-way delay: 65.391 ms

Loss rate: 0.23%

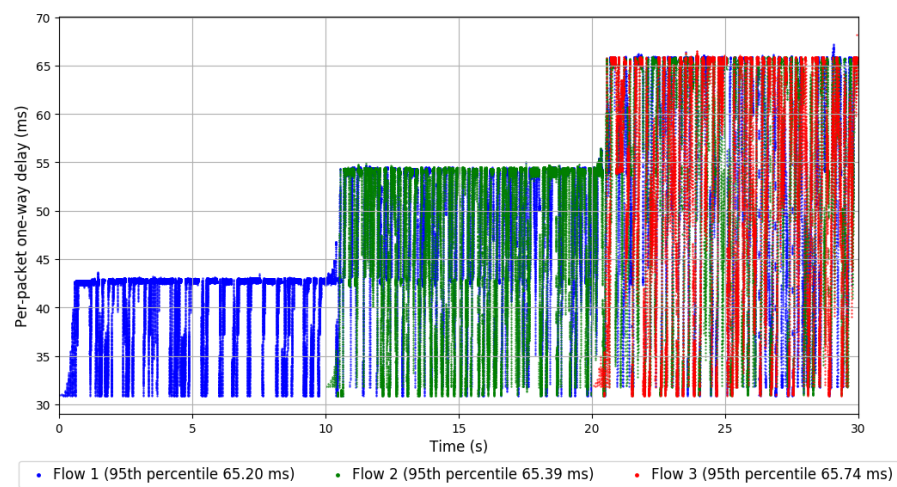
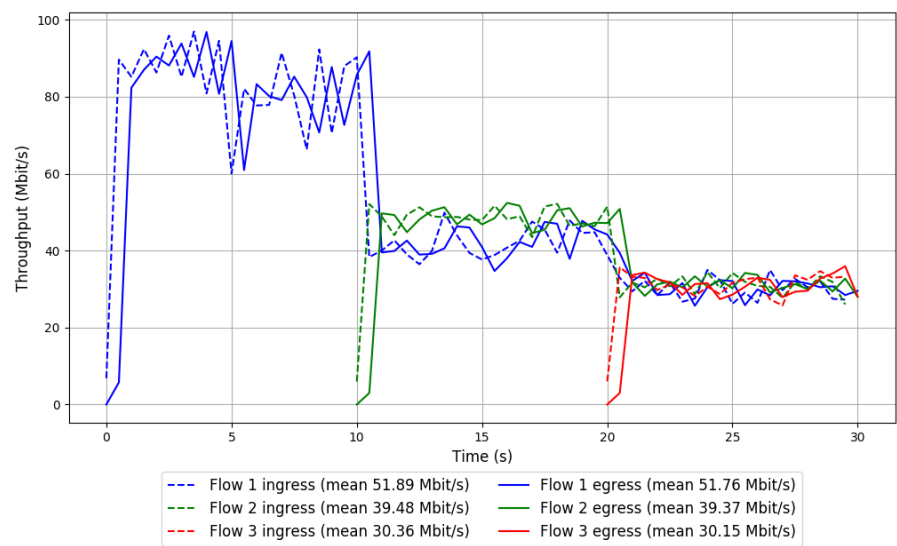
-- Flow 3:

Average throughput: 30.15 Mbit/s

95th percentile per-packet one-way delay: 65.738 ms

Loss rate: 1.28%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-08-02 03:01:57

End at: 2018-08-02 03:02:27

Local clock offset: -4.538 ms

Remote clock offset: 2.039 ms

Below is generated by plot.py at 2018-08-02 04:29:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.00 Mbit/s

95th percentile per-packet one-way delay: 64.790 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 57.85 Mbit/s

95th percentile per-packet one-way delay: 54.321 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 35.24 Mbit/s

95th percentile per-packet one-way delay: 76.017 ms

Loss rate: 0.49%

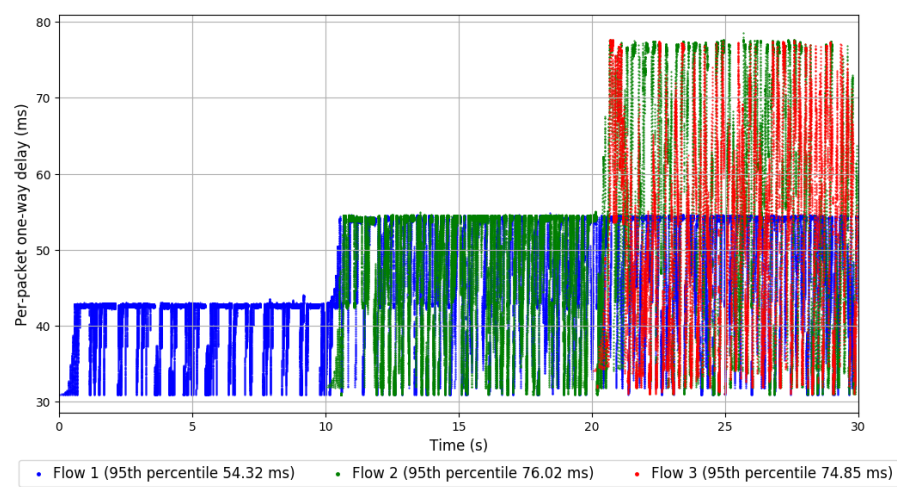
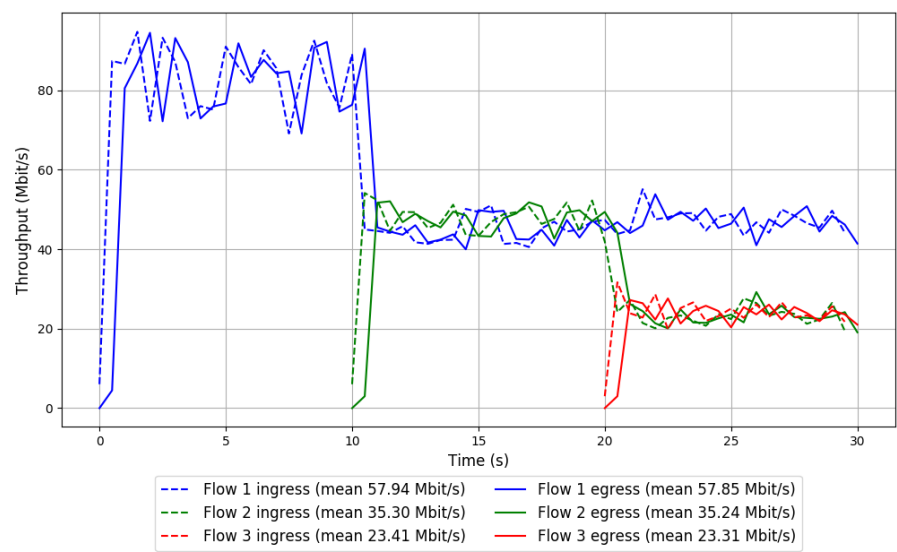
-- Flow 3:

Average throughput: 23.31 Mbit/s

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

Loss rate: 1.12%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-08-02 03:24:59

End at: 2018-08-02 03:25:29

Local clock offset: -4.079 ms

Remote clock offset: 2.487 ms

Below is generated by plot.py at 2018-08-02 04:30:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.03 Mbit/s

95th percentile per-packet one-way delay: 64.407 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 52.59 Mbit/s

95th percentile per-packet one-way delay: 60.293 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 38.90 Mbit/s

95th percentile per-packet one-way delay: 64.862 ms

Loss rate: 0.62%

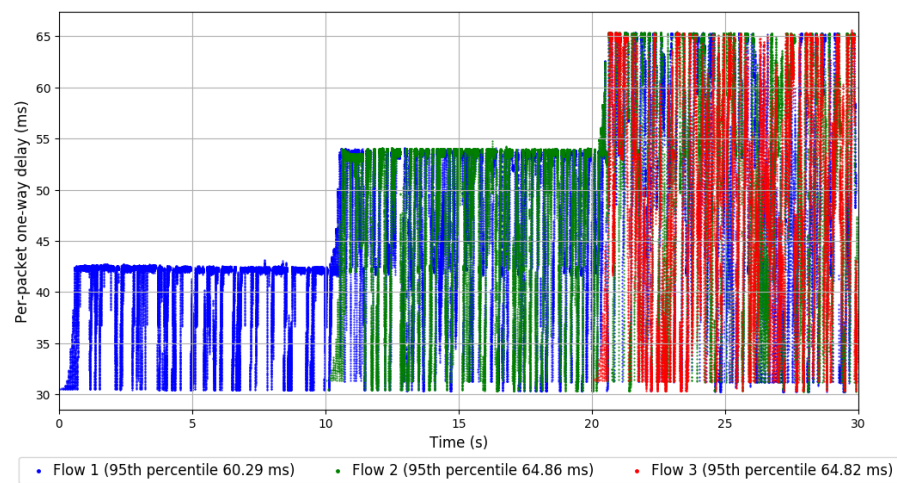
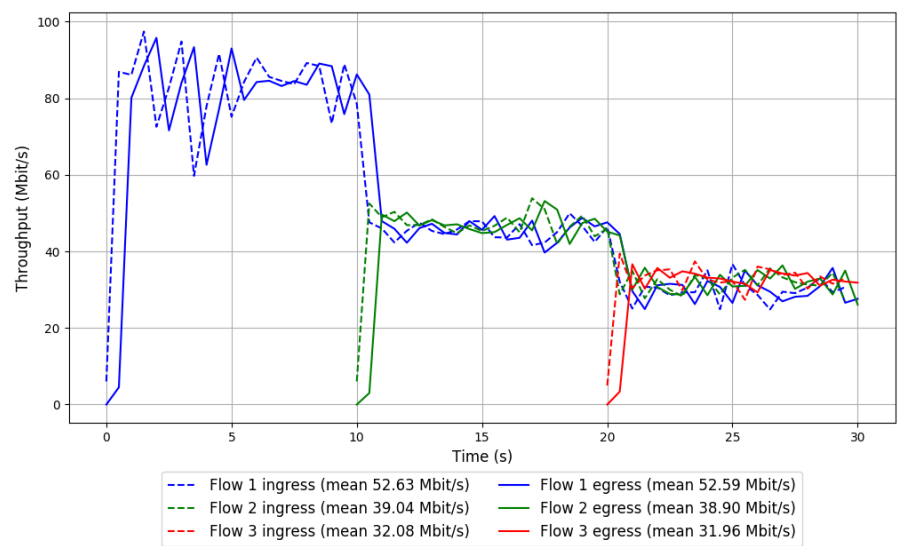
-- Flow 3:

Average throughput: 31.96 Mbit/s

95th percentile per-packet one-way delay: 64.816 ms

Loss rate: 0.94%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-08-02 03:47:56

End at: 2018-08-02 03:48:26

Local clock offset: 1.541 ms

Remote clock offset: 2.803 ms

Below is generated by plot.py at 2018-08-02 04:30:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.15 Mbit/s

95th percentile per-packet one-way delay: 64.625 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 53.24 Mbit/s

95th percentile per-packet one-way delay: 62.109 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 39.02 Mbit/s

95th percentile per-packet one-way delay: 64.908 ms

Loss rate: 0.45%

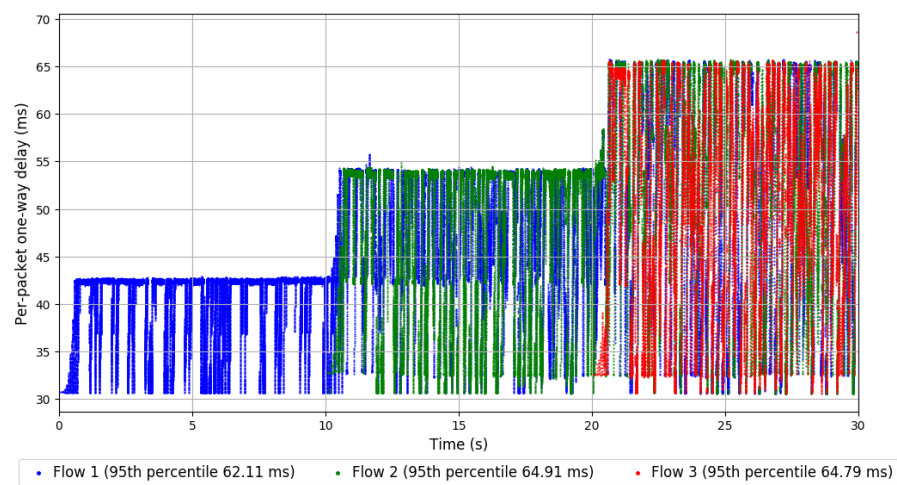
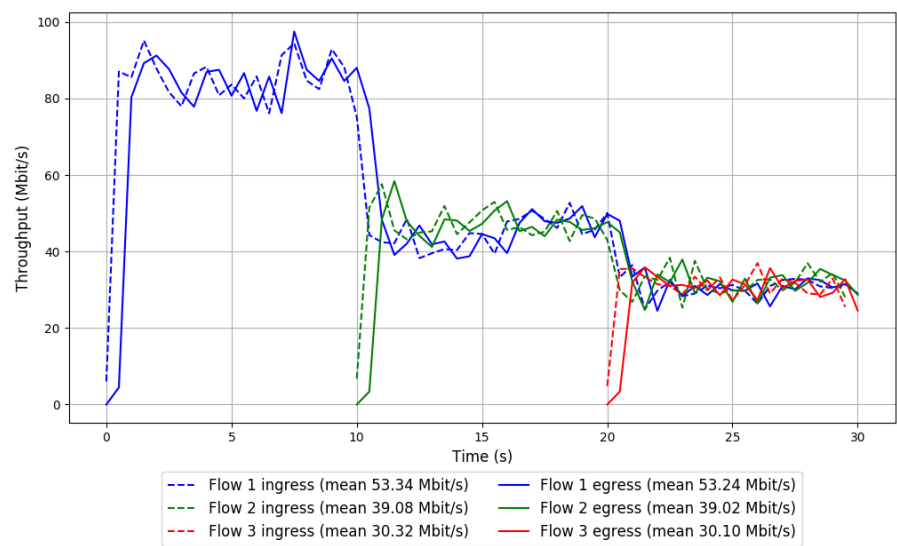
-- Flow 3:

Average throughput: 30.10 Mbit/s

95th percentile per-packet one-way delay: 64.787 ms

Loss rate: 1.14%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-08-02 00:30:17

End at: 2018-08-02 00:30:47

Local clock offset: 0.017 ms

Remote clock offset: 2.051 ms

Below is generated by plot.py at 2018-08-02 04:30:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.64 Mbit/s

95th percentile per-packet one-way delay: 60.312 ms

Loss rate: 2.21%

-- Flow 1:

Average throughput: 54.83 Mbit/s

95th percentile per-packet one-way delay: 52.994 ms

Loss rate: 2.71%

-- Flow 2:

Average throughput: 34.41 Mbit/s

95th percentile per-packet one-way delay: 61.021 ms

Loss rate: 0.52%

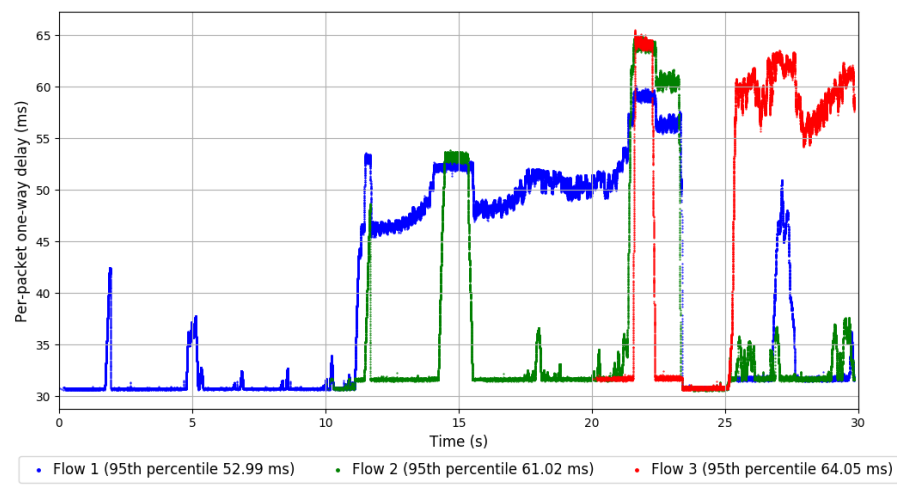
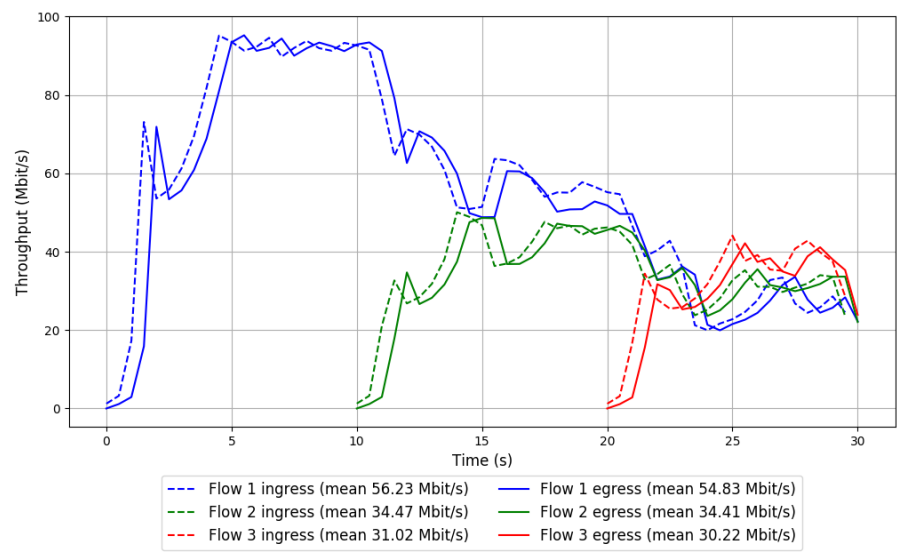
-- Flow 3:

Average throughput: 30.22 Mbit/s

95th percentile per-packet one-way delay: 64.049 ms

Loss rate: 3.30%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-08-02 00:53:07

End at: 2018-08-02 00:53:37

Local clock offset: 0.227 ms

Remote clock offset: 1.316 ms

Below is generated by plot.py at 2018-08-02 04:30:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.31 Mbit/s

95th percentile per-packet one-way delay: 66.001 ms

Loss rate: 1.47%

-- Flow 1:

Average throughput: 58.98 Mbit/s

95th percentile per-packet one-way delay: 64.140 ms

Loss rate: 1.24%

-- Flow 2:

Average throughput: 23.79 Mbit/s

95th percentile per-packet one-way delay: 71.944 ms

Loss rate: 2.56%

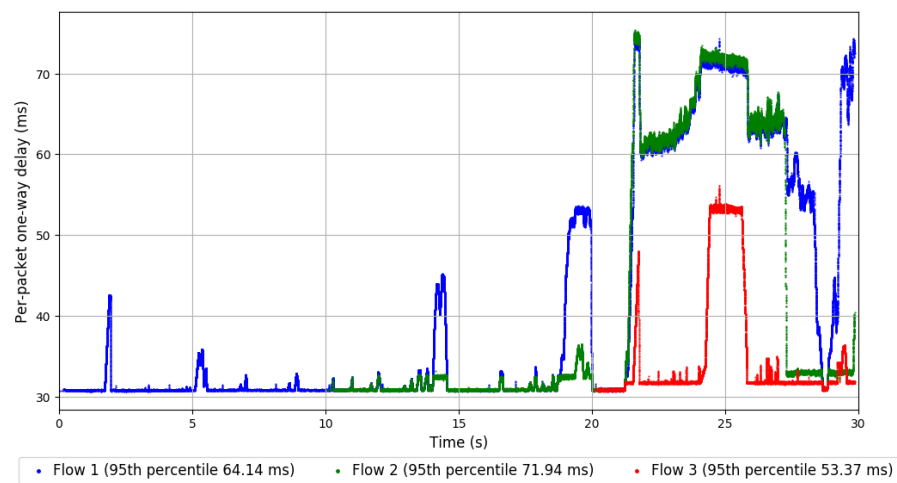
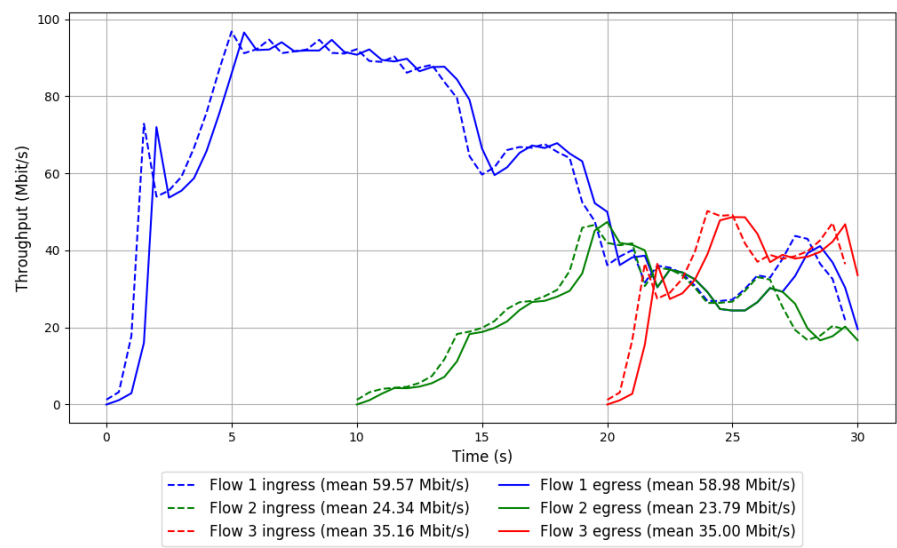
-- Flow 3:

Average throughput: 35.00 Mbit/s

95th percentile per-packet one-way delay: 53.370 ms

Loss rate: 1.09%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-08-02 01:16:04

End at: 2018-08-02 01:16:34

Local clock offset: 0.274 ms

Remote clock offset: 2.155 ms

Below is generated by plot.py at 2018-08-02 04:31:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.02 Mbit/s

95th percentile per-packet one-way delay: 60.691 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 53.36 Mbit/s

95th percentile per-packet one-way delay: 48.260 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 37.29 Mbit/s

95th percentile per-packet one-way delay: 61.936 ms

Loss rate: 1.11%

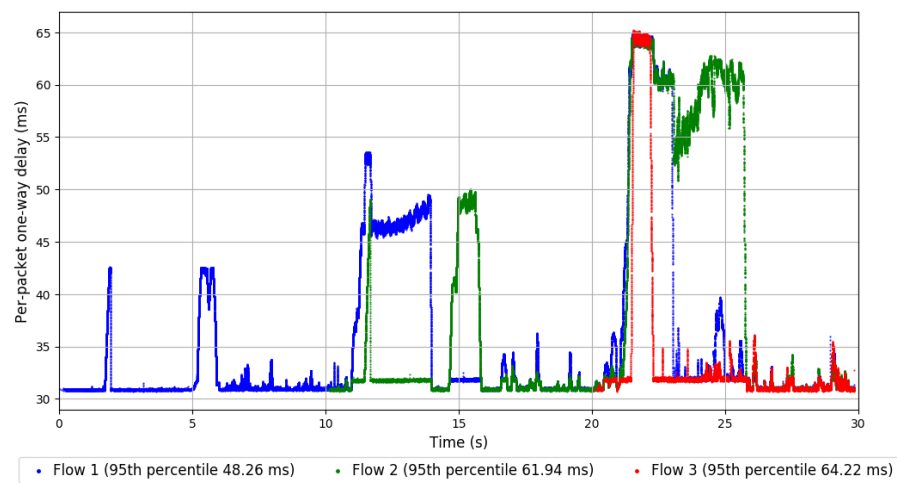
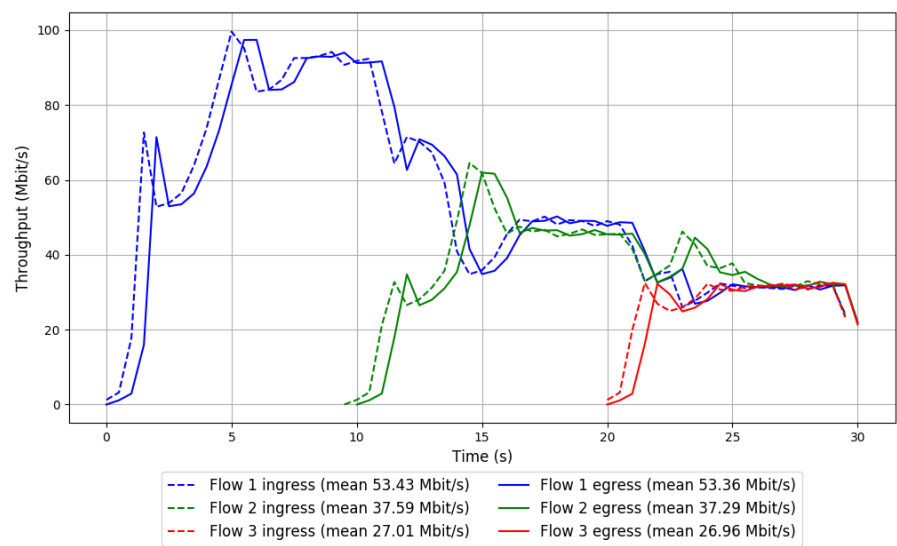
-- Flow 3:

Average throughput: 26.96 Mbit/s

95th percentile per-packet one-way delay: 64.220 ms

Loss rate: 0.82%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-08-02 01:39:10

End at: 2018-08-02 01:39:41

Local clock offset: 0.204 ms

Remote clock offset: 2.535 ms

Below is generated by plot.py at 2018-08-02 04:31:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.33 Mbit/s

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

Loss rate: 0.62%

-- Flow 1:

Average throughput: 52.73 Mbit/s

95th percentile per-packet one-way delay: 60.591 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 41.63 Mbit/s

95th percentile per-packet one-way delay: 50.469 ms

Loss rate: 0.40%

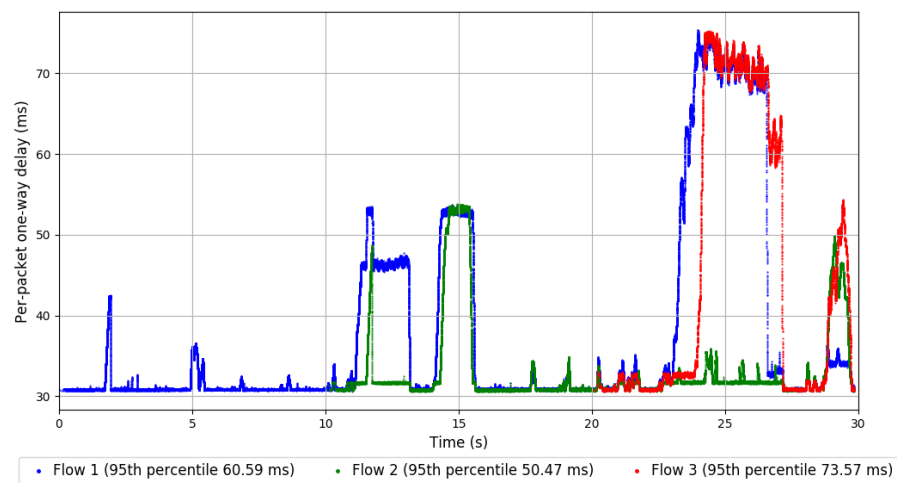
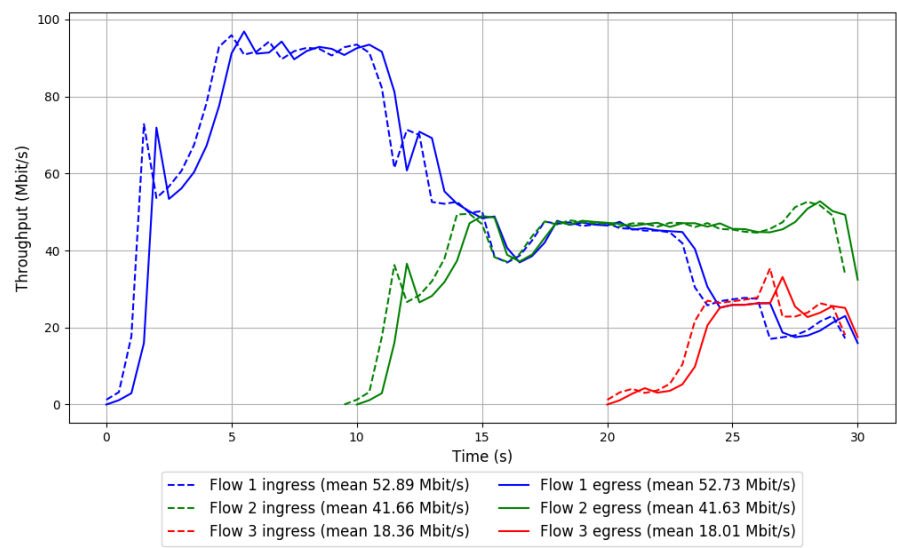
-- Flow 3:

Average throughput: 18.01 Mbit/s

95th percentile per-packet one-way delay: 73.568 ms

Loss rate: 2.56%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-08-02 02:02:11

End at: 2018-08-02 02:02:41

Local clock offset: 0.092 ms

Remote clock offset: 2.302 ms

Below is generated by plot.py at 2018-08-02 04:31:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.28 Mbit/s

95th percentile per-packet one-way delay: 60.619 ms

Loss rate: 4.19%

-- Flow 1:

Average throughput: 56.05 Mbit/s

95th percentile per-packet one-way delay: 57.427 ms

Loss rate: 5.88%

-- Flow 2:

Average throughput: 35.38 Mbit/s

95th percentile per-packet one-way delay: 62.537 ms

Loss rate: 1.22%

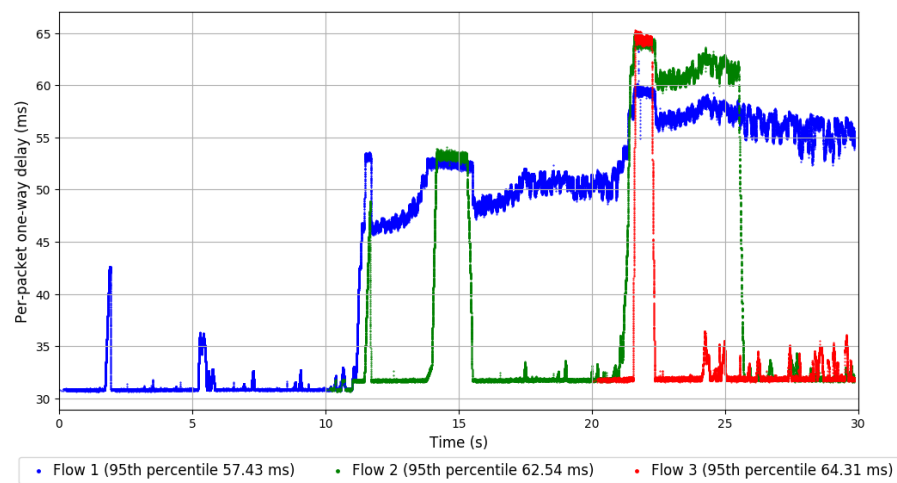
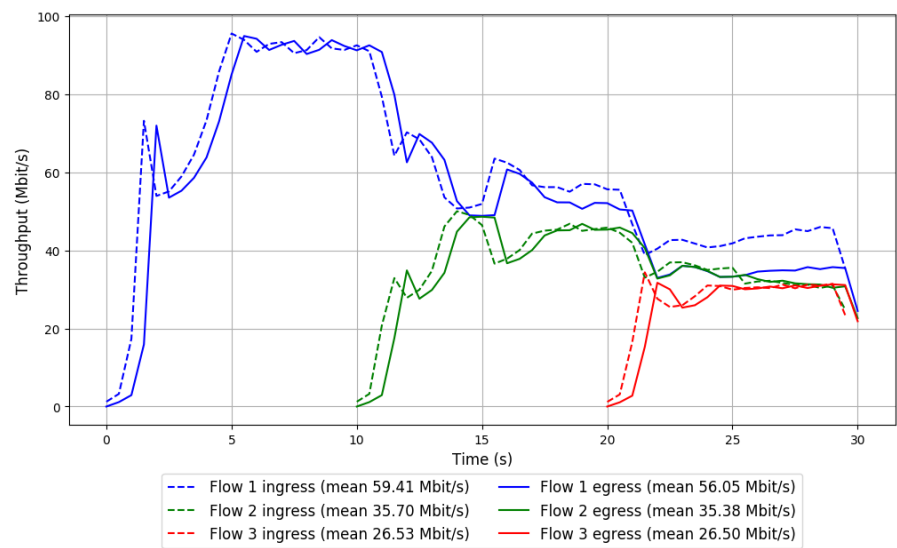
-- Flow 3:

Average throughput: 26.50 Mbit/s

95th percentile per-packet one-way delay: 64.313 ms

Loss rate: 0.81%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-08-02 02:25:23

End at: 2018-08-02 02:25:53

Local clock offset: -1.005 ms

Remote clock offset: 1.823 ms

Below is generated by plot.py at 2018-08-02 04:31:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.57 Mbit/s

95th percentile per-packet one-way delay: 61.301 ms

Loss rate: 2.79%

-- Flow 1:

Average throughput: 55.74 Mbit/s

95th percentile per-packet one-way delay: 57.053 ms

Loss rate: 2.77%

-- Flow 2:

Average throughput: 36.17 Mbit/s

95th percentile per-packet one-way delay: 62.667 ms

Loss rate: 3.53%

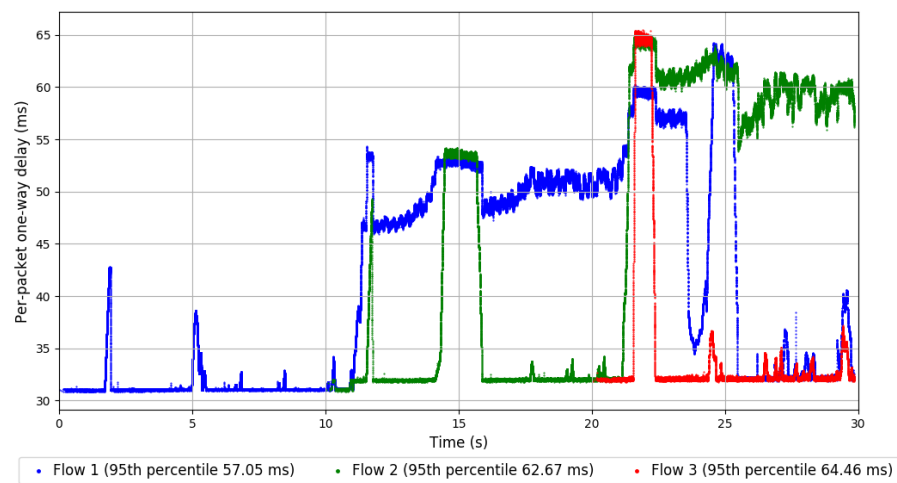
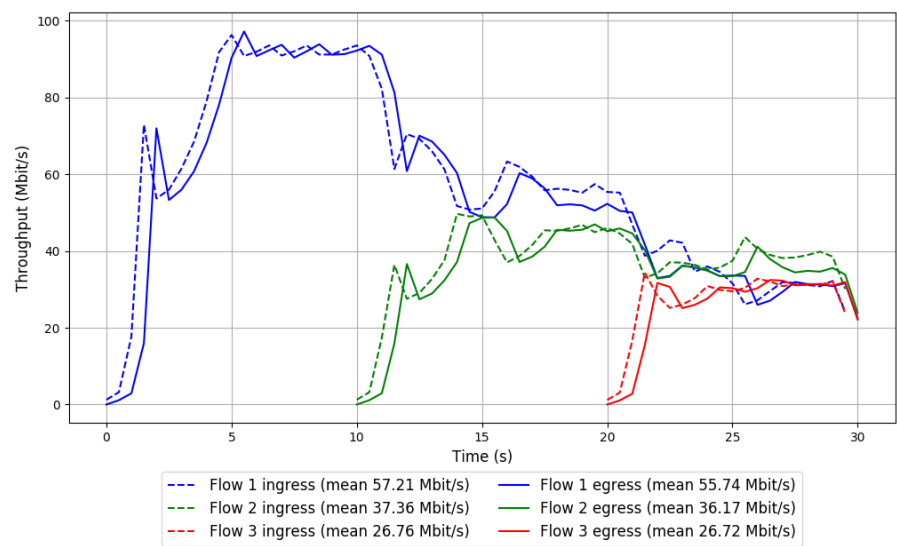
-- Flow 3:

Average throughput: 26.72 Mbit/s

95th percentile per-packet one-way delay: 64.460 ms

Loss rate: 0.83%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-08-02 02:48:31

End at: 2018-08-02 02:49:01

Local clock offset: -3.754 ms

Remote clock offset: 1.858 ms

Below is generated by plot.py at 2018-08-02 04:31:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.26 Mbit/s

95th percentile per-packet one-way delay: 57.895 ms

Loss rate: 1.10%

-- Flow 1:

Average throughput: 55.30 Mbit/s

95th percentile per-packet one-way delay: 58.945 ms

Loss rate: 1.17%

-- Flow 2:

Average throughput: 28.45 Mbit/s

95th percentile per-packet one-way delay: 60.339 ms

Loss rate: 0.95%

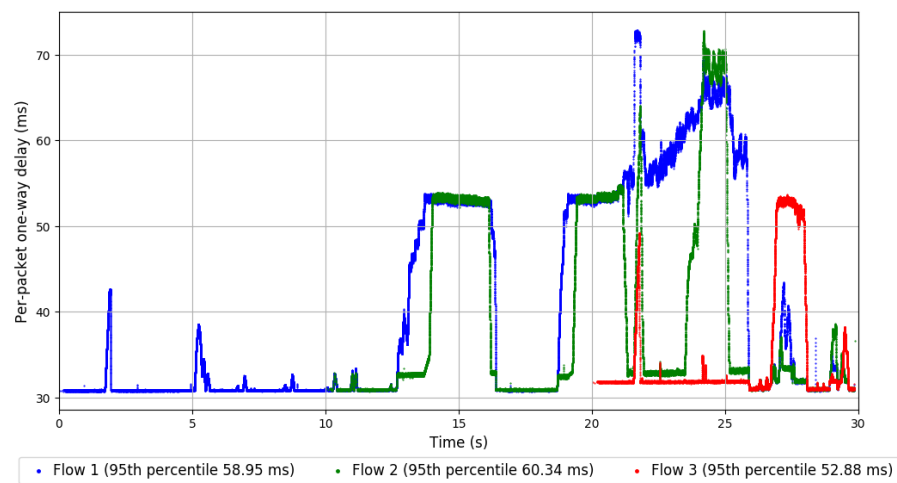
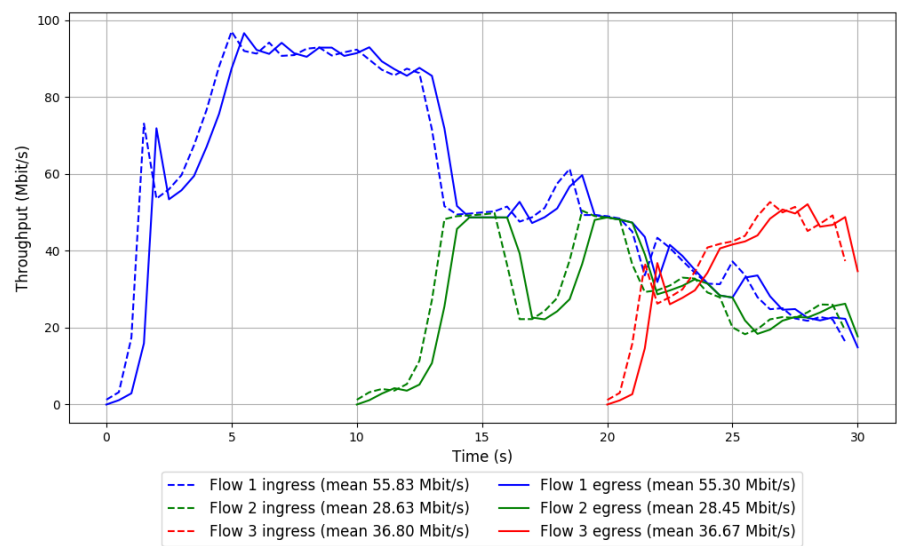
-- Flow 3:

Average throughput: 36.67 Mbit/s

95th percentile per-packet one-way delay: 52.875 ms

Loss rate: 0.99%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-08-02 03:11:21

End at: 2018-08-02 03:11:51

Local clock offset: -5.061 ms

Remote clock offset: 2.111 ms

Below is generated by plot.py at 2018-08-02 04:31:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.94 Mbit/s

95th percentile per-packet one-way delay: 67.180 ms

Loss rate: 1.28%

-- Flow 1:

Average throughput: 57.31 Mbit/s

95th percentile per-packet one-way delay: 46.614 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 35.26 Mbit/s

95th percentile per-packet one-way delay: 70.067 ms

Loss rate: 3.64%

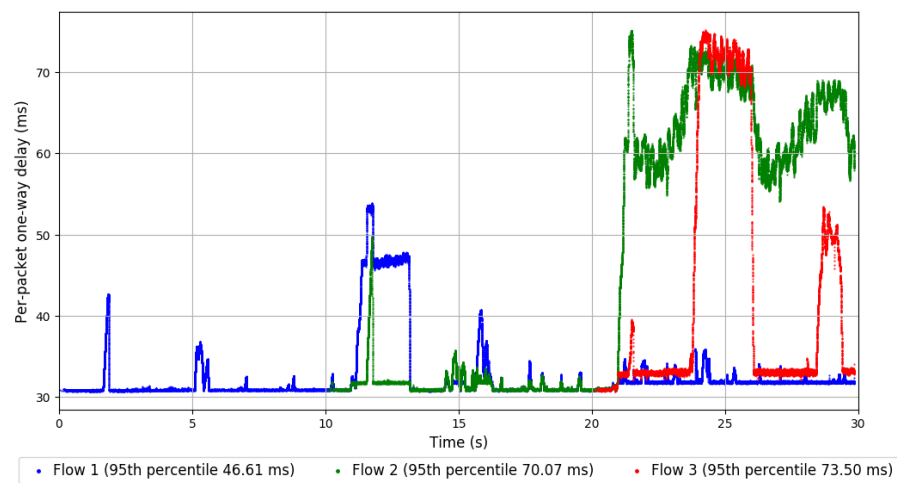
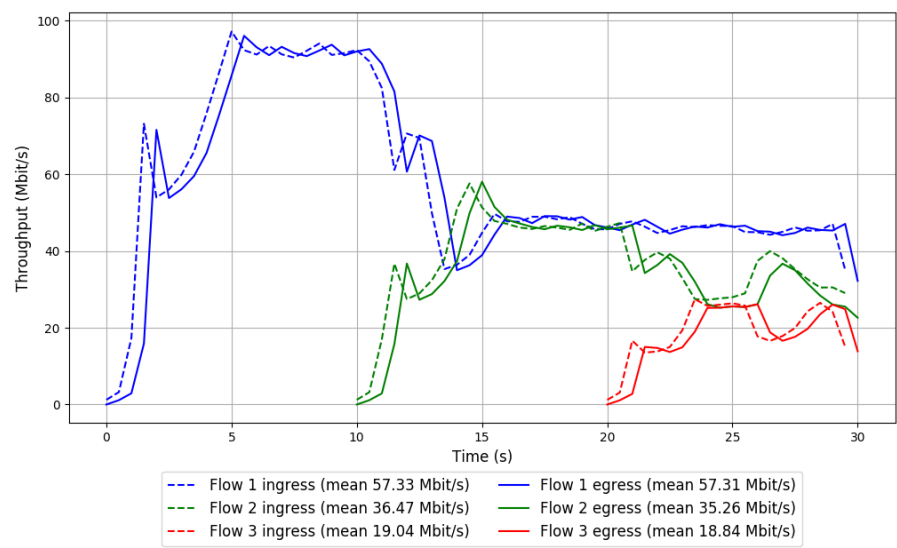
-- Flow 3:

Average throughput: 18.84 Mbit/s

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

Loss rate: 1.68%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-08-02 03:34:29

End at: 2018-08-02 03:34:59

Local clock offset: -0.553 ms

Remote clock offset: 2.849 ms

Below is generated by plot.py at 2018-08-02 04:31:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.80 Mbit/s

95th percentile per-packet one-way delay: 60.582 ms

Loss rate: 2.19%

-- Flow 1:

Average throughput: 54.68 Mbit/s

95th percentile per-packet one-way delay: 52.737 ms

Loss rate: 2.62%

-- Flow 2:

Average throughput: 35.08 Mbit/s

95th percentile per-packet one-way delay: 60.604 ms

Loss rate: 0.68%

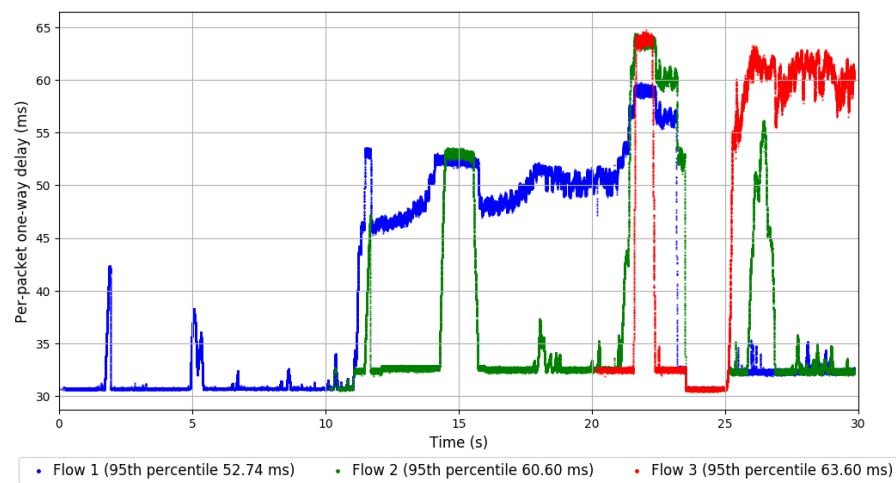
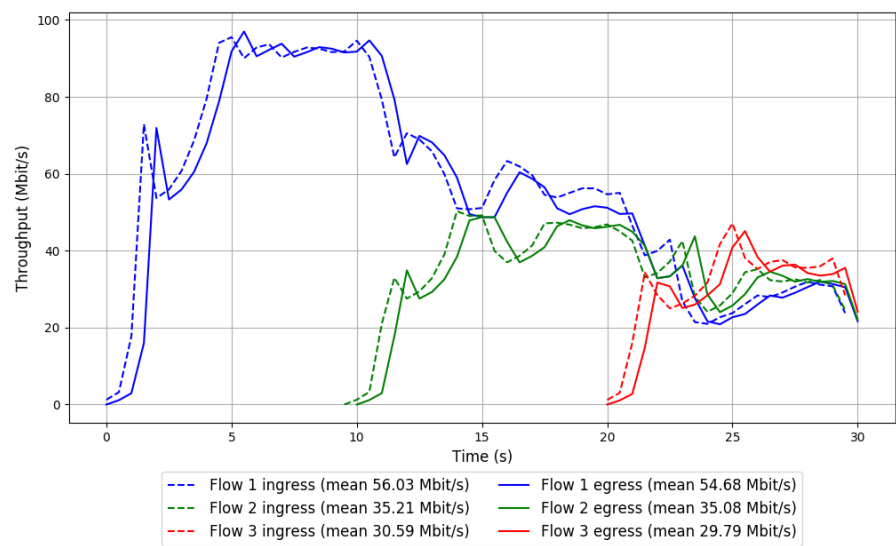
-- Flow 3:

Average throughput: 29.79 Mbit/s

95th percentile per-packet one-way delay: 63.596 ms

Loss rate: 3.35%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-08-02 03:57:31

End at: 2018-08-02 03:58:01

Local clock offset: 1.649 ms

Remote clock offset: 2.035 ms

Below is generated by plot.py at 2018-08-02 04:31:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.25 Mbit/s

95th percentile per-packet one-way delay: 55.954 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 52.89 Mbit/s

95th percentile per-packet one-way delay: 46.560 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 35.45 Mbit/s

95th percentile per-packet one-way delay: 58.072 ms

Loss rate: 0.83%

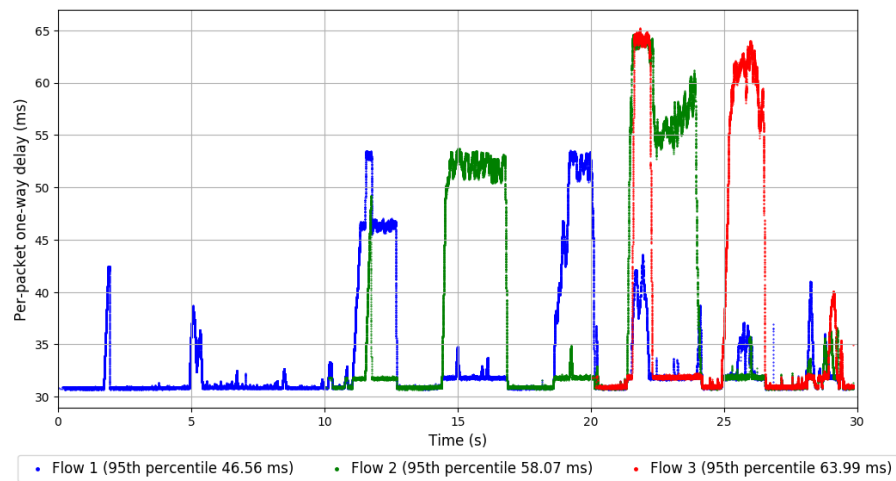
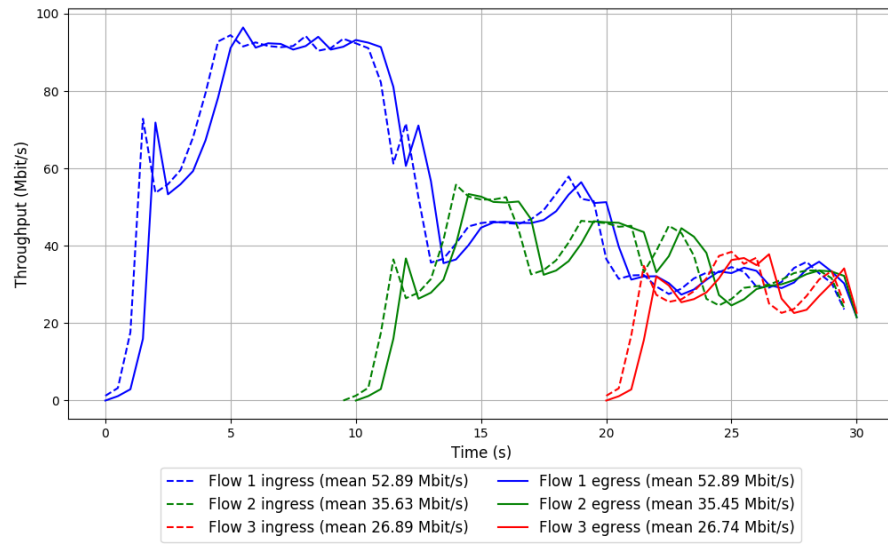
-- Flow 3:

Average throughput: 26.74 Mbit/s

95th percentile per-packet one-way delay: 63.990 ms

Loss rate: 1.18%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-08-02 00:31:39

End at: 2018-08-02 00:32:09

Local clock offset: 0.04 ms

Remote clock offset: 1.819 ms

Below is generated by plot.py at 2018-08-02 04:31:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.37 Mbit/s

95th percentile per-packet one-way delay: 31.558 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 1.87 Mbit/s

95th percentile per-packet one-way delay: 31.395 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 1.08 Mbit/s

95th percentile per-packet one-way delay: 31.654 ms

Loss rate: 0.32%

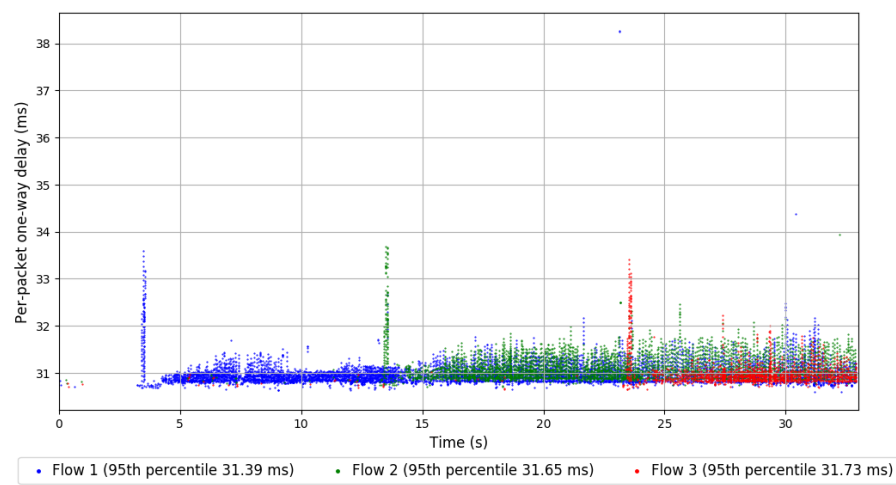
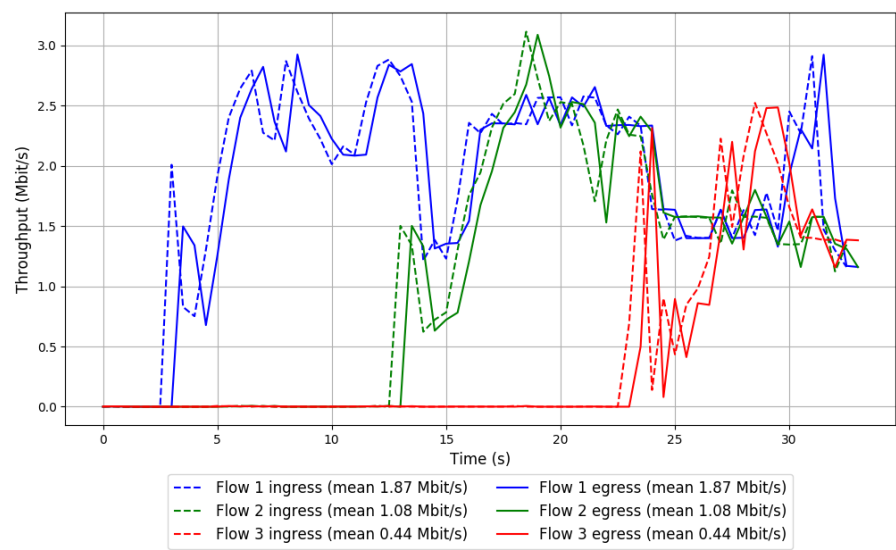
-- Flow 3:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 31.726 ms

Loss rate: 0.73%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-08-02 00:54:29

End at: 2018-08-02 00:54:59

Local clock offset: 0.13 ms

Remote clock offset: 1.374 ms

Below is generated by plot.py at 2018-08-02 04:31:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.29 Mbit/s

95th percentile per-packet one-way delay: 31.421 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 1.80 Mbit/s

95th percentile per-packet one-way delay: 31.322 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 1.05 Mbit/s

95th percentile per-packet one-way delay: 31.368 ms

Loss rate: 0.33%

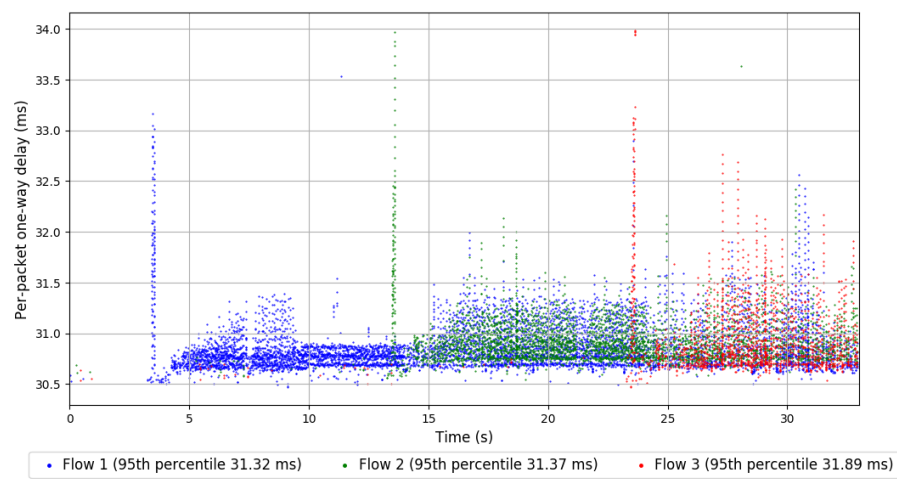
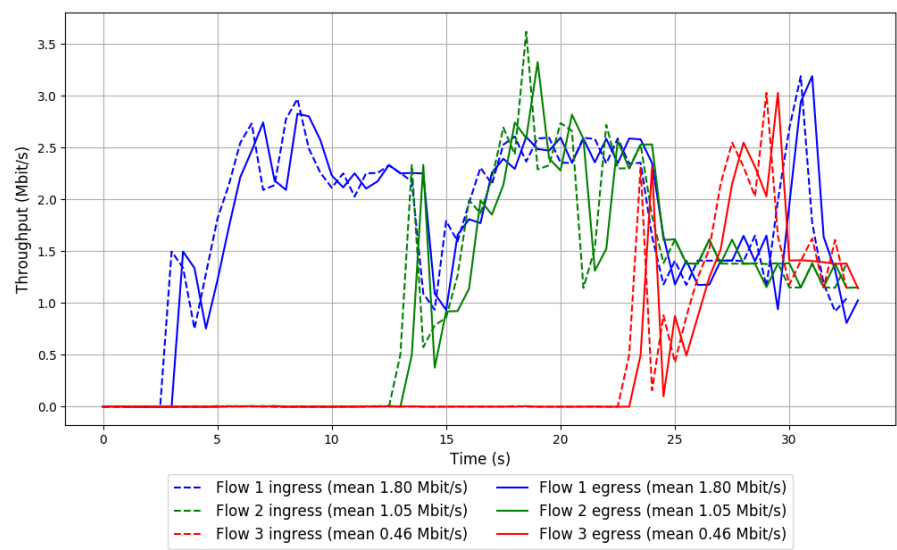
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 31.890 ms

Loss rate: 0.76%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-08-02 01:17:29

End at: 2018-08-02 01:17:59

Local clock offset: 0.27 ms

Remote clock offset: 2.234 ms

Below is generated by plot.py at 2018-08-02 04:31:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.29 Mbit/s

95th percentile per-packet one-way delay: 31.567 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 1.83 Mbit/s

95th percentile per-packet one-way delay: 31.499 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 1.04 Mbit/s

95th percentile per-packet one-way delay: 31.623 ms

Loss rate: 0.33%

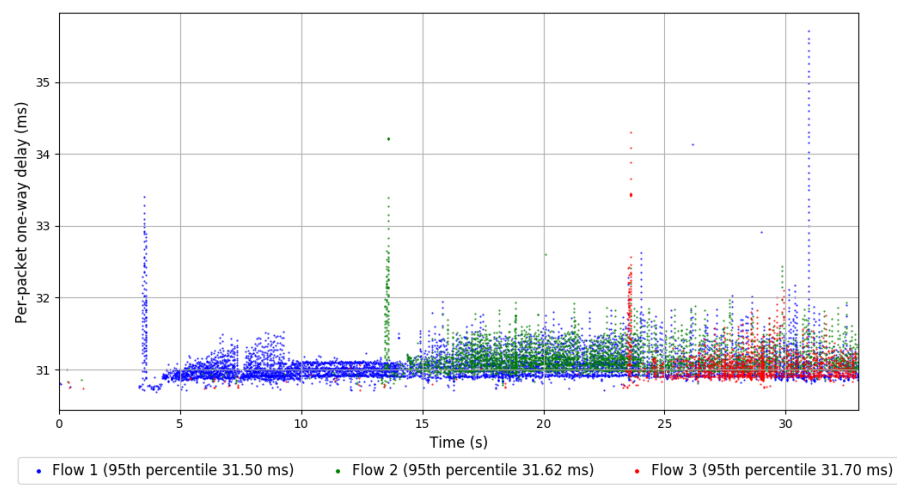
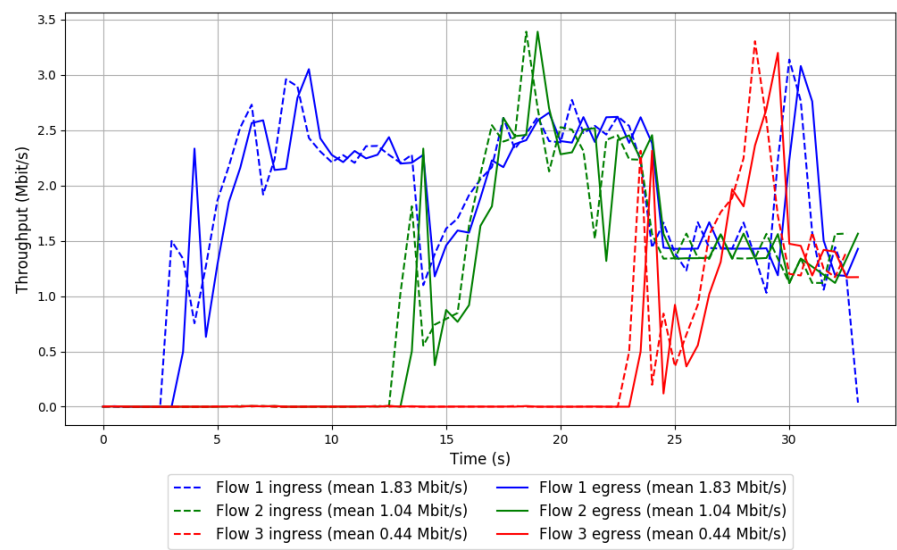
-- Flow 3:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 31.695 ms

Loss rate: 0.81%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-08-02 01:40:33

End at: 2018-08-02 01:41:03

Local clock offset: 0.205 ms

Remote clock offset: 2.491 ms

Below is generated by plot.py at 2018-08-02 04:31:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.26 Mbit/s

95th percentile per-packet one-way delay: 31.542 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 1.79 Mbit/s

95th percentile per-packet one-way delay: 31.469 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 1.04 Mbit/s

95th percentile per-packet one-way delay: 31.546 ms

Loss rate: 0.33%

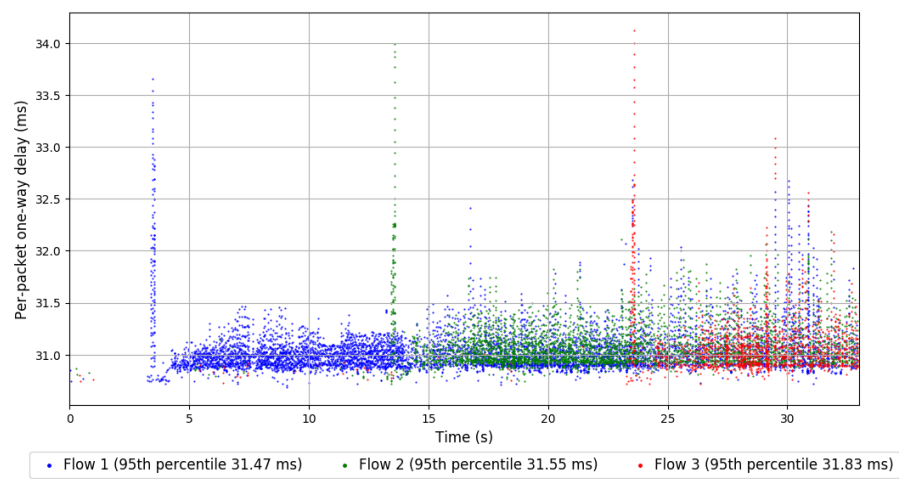
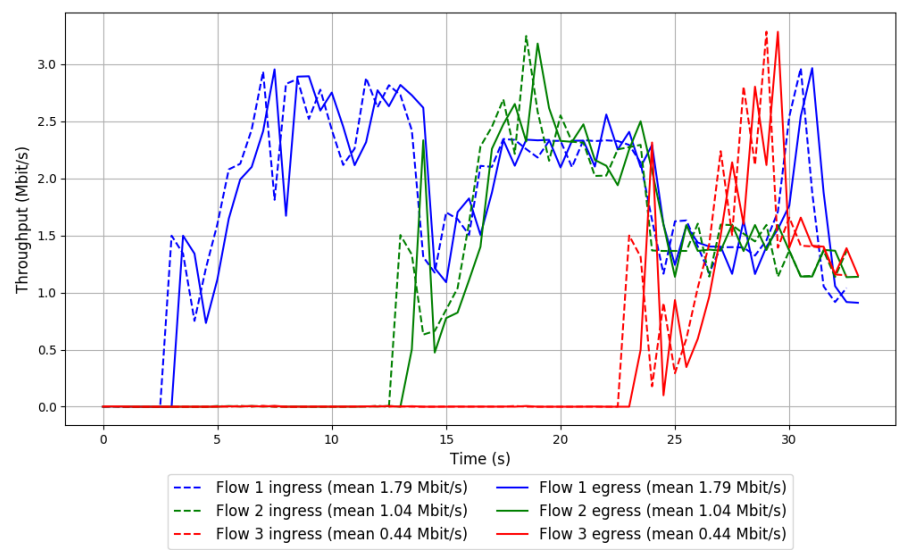
-- Flow 3:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 31.826 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-08-02 02:03:34

End at: 2018-08-02 02:04:04

Local clock offset: 0.09 ms

Remote clock offset: 2.313 ms

Below is generated by plot.py at 2018-08-02 04:31:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.41 Mbit/s

95th percentile per-packet one-way delay: 31.672 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 1.87 Mbit/s

95th percentile per-packet one-way delay: 31.530 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 1.10 Mbit/s

95th percentile per-packet one-way delay: 31.751 ms

Loss rate: 0.53%

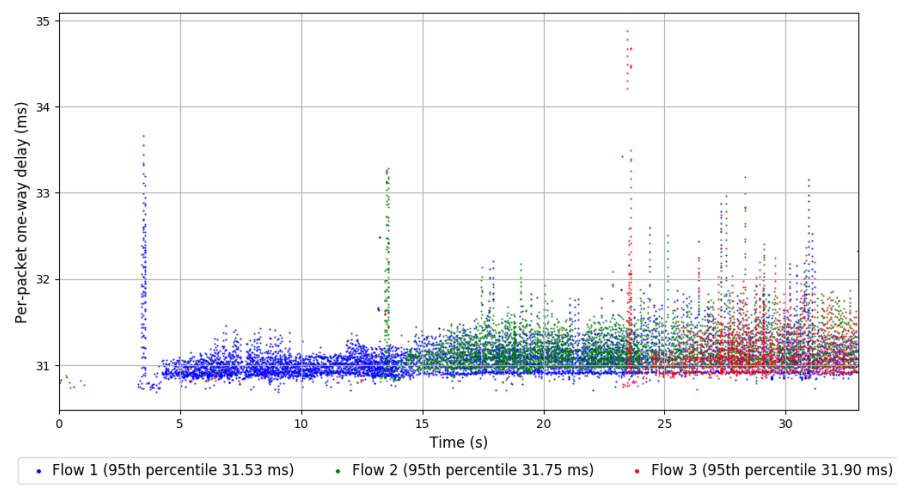
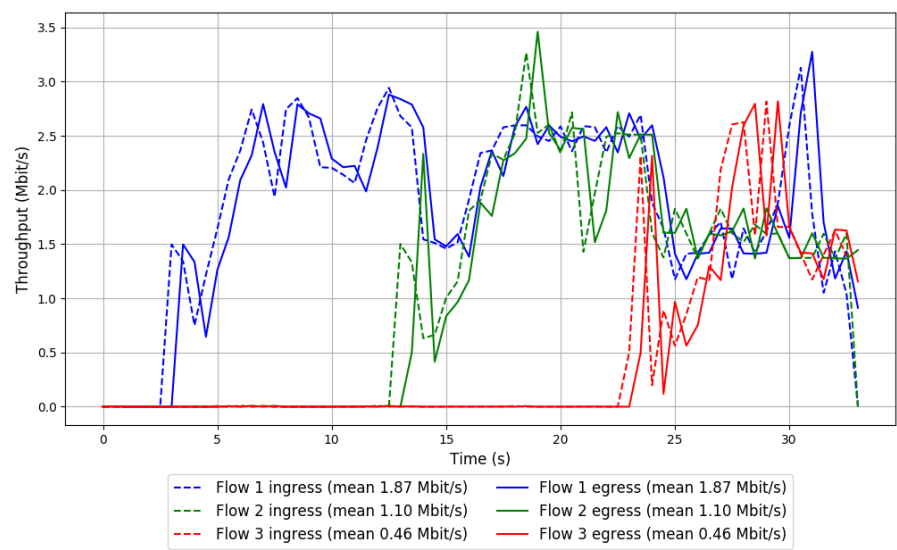
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 31.901 ms

Loss rate: 0.77%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-08-02 02:26:48

End at: 2018-08-02 02:27:18

Local clock offset: -1.309 ms

Remote clock offset: 1.839 ms

Below is generated by plot.py at 2018-08-02 04:31:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.37 Mbit/s

95th percentile per-packet one-way delay: 31.798 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 1.84 Mbit/s

95th percentile per-packet one-way delay: 31.610 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 1.08 Mbit/s

95th percentile per-packet one-way delay: 31.854 ms

Loss rate: 0.32%

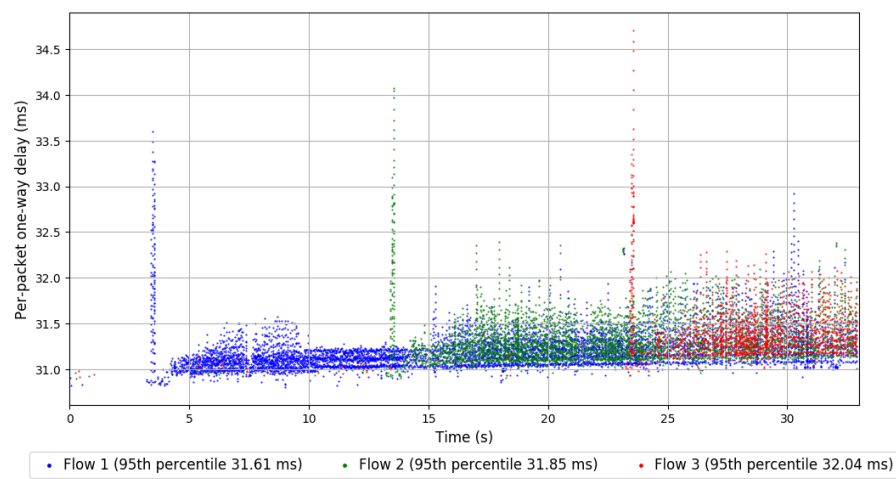
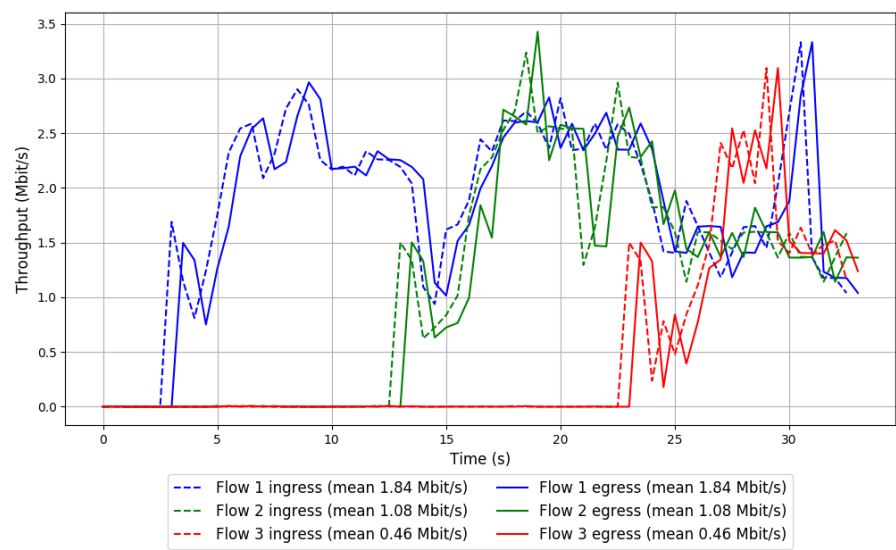
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 32.039 ms

Loss rate: 0.06%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-08-02 02:49:53

End at: 2018-08-02 02:50:23

Local clock offset: -3.845 ms

Remote clock offset: 1.883 ms

Below is generated by plot.py at 2018-08-02 04:31:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.37 Mbit/s

95th percentile per-packet one-way delay: 31.635 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 1.88 Mbit/s

95th percentile per-packet one-way delay: 31.559 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 1.05 Mbit/s

95th percentile per-packet one-way delay: 31.700 ms

Loss rate: 0.33%

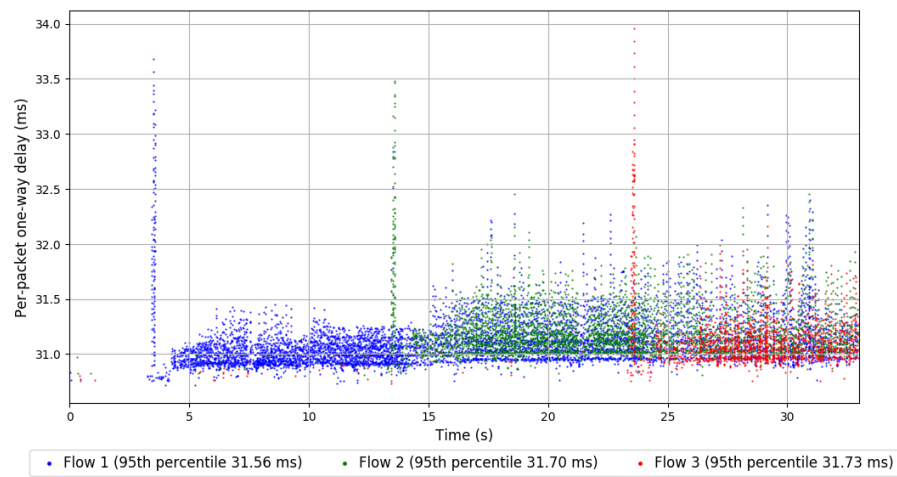
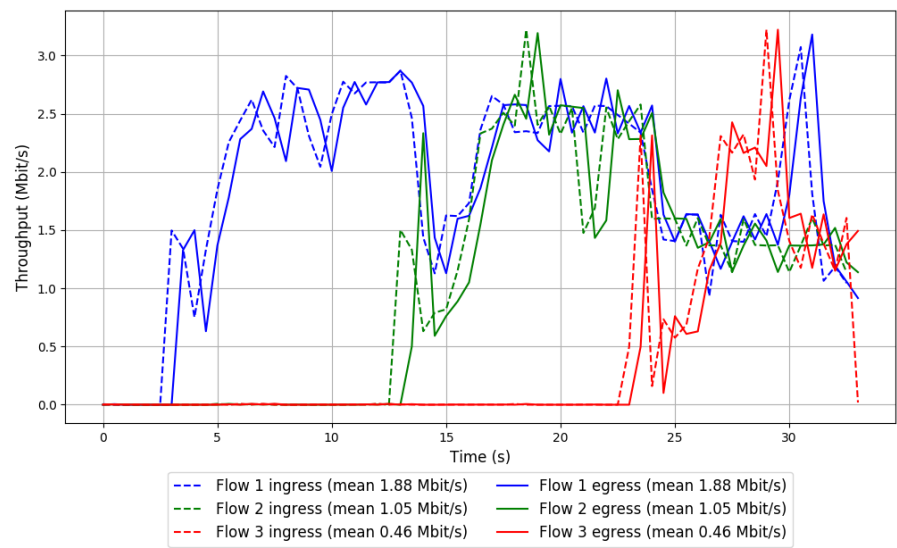
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 31.726 ms

Loss rate: 0.45%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-08-02 03:12:43

End at: 2018-08-02 03:13:13

Local clock offset: -5.253 ms

Remote clock offset: 2.064 ms

Below is generated by plot.py at 2018-08-02 04:31:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.27 Mbit/s

95th percentile per-packet one-way delay: 31.514 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 1.81 Mbit/s

95th percentile per-packet one-way delay: 31.424 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 1.05 Mbit/s

95th percentile per-packet one-way delay: 31.602 ms

Loss rate: 0.33%

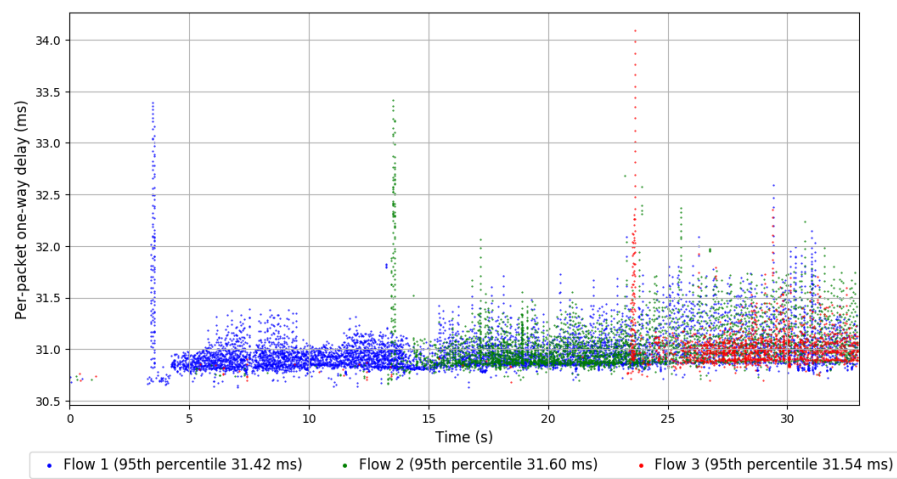
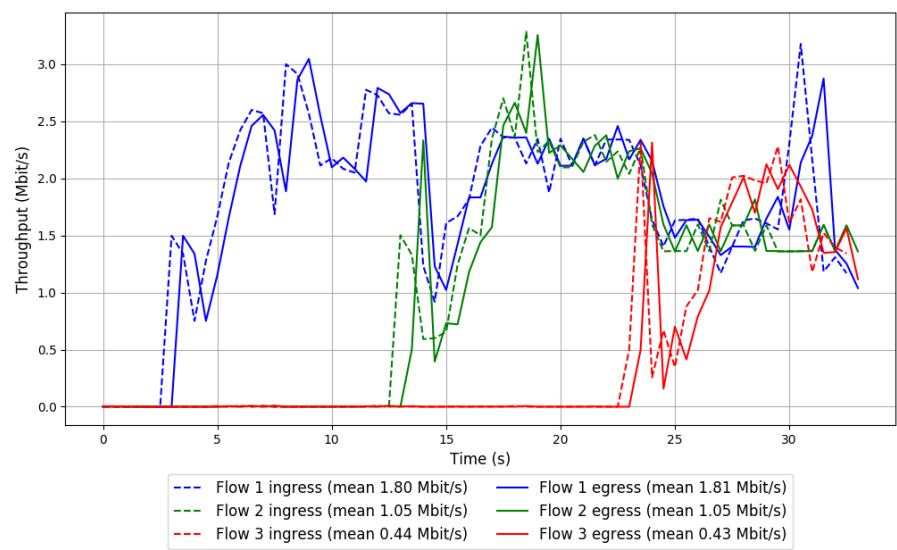
-- Flow 3:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 31.542 ms

Loss rate: 0.79%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-08-02 03:35:51

End at: 2018-08-02 03:36:21

Local clock offset: -0.249 ms

Remote clock offset: 2.881 ms

Below is generated by plot.py at 2018-08-02 04:31:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.34 Mbit/s

95th percentile per-packet one-way delay: 31.401 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 1.83 Mbit/s

95th percentile per-packet one-way delay: 31.351 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 1.07 Mbit/s

95th percentile per-packet one-way delay: 31.404 ms

Loss rate: 0.32%

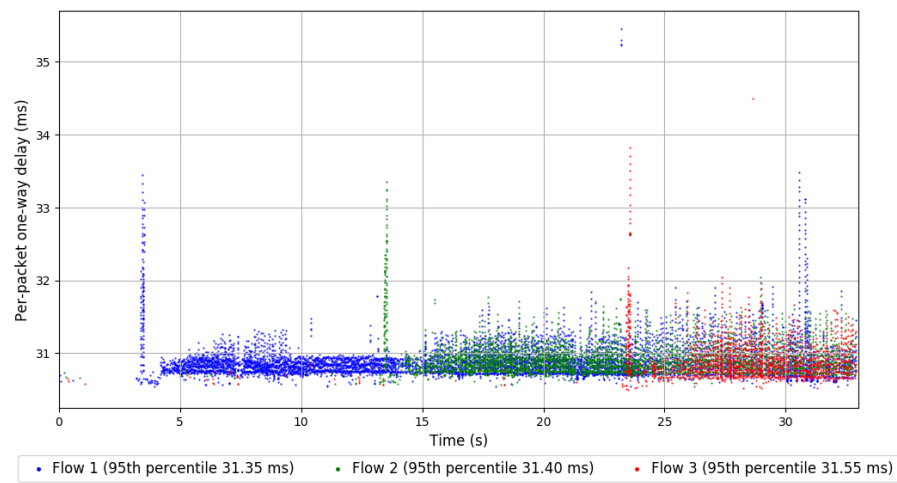
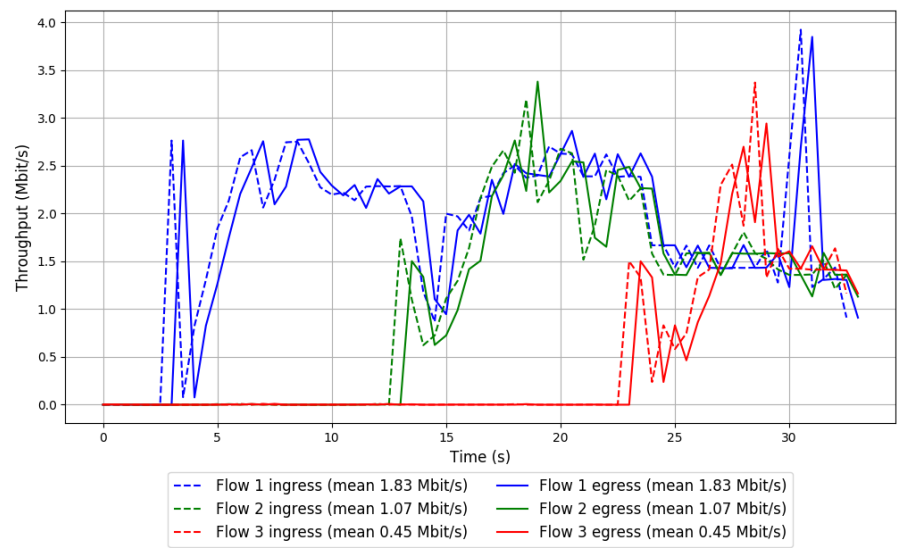
-- Flow 3:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 31.546 ms

Loss rate: 0.79%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-08-02 03:58:54

End at: 2018-08-02 03:59:24

Local clock offset: 1.579 ms

Remote clock offset: 1.924 ms

Below is generated by plot.py at 2018-08-02 04:31:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.33 Mbit/s

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

Loss rate: 0.19%

-- Flow 1:

Average throughput: 1.87 Mbit/s

95th percentile per-packet one-way delay: 31.452 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 1.04 Mbit/s

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

Loss rate: 0.33%

-- Flow 3:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 31.832 ms

Loss rate: 0.19%

Run 10: Report of WebRTC media — Data Link

