

Pantheon Report

Generated at 2018-07-11 00:47:58 (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.

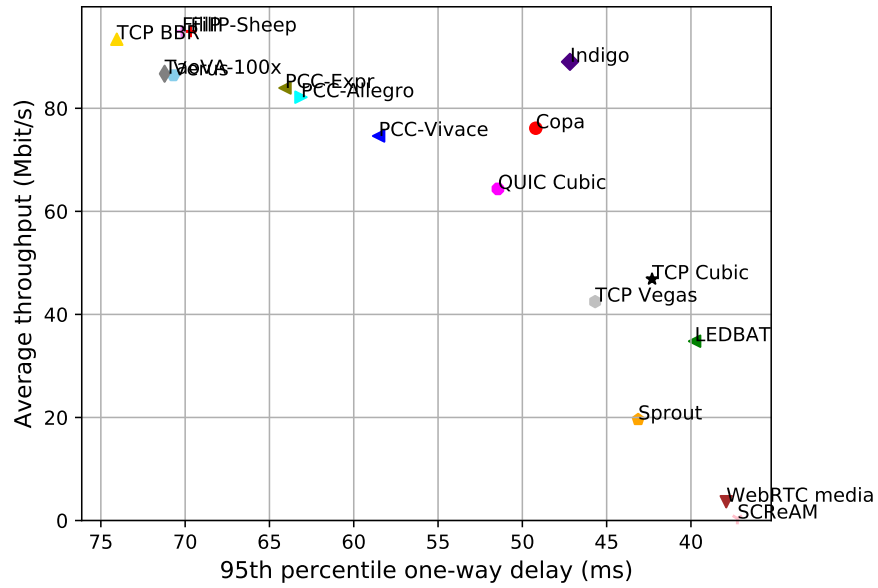
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

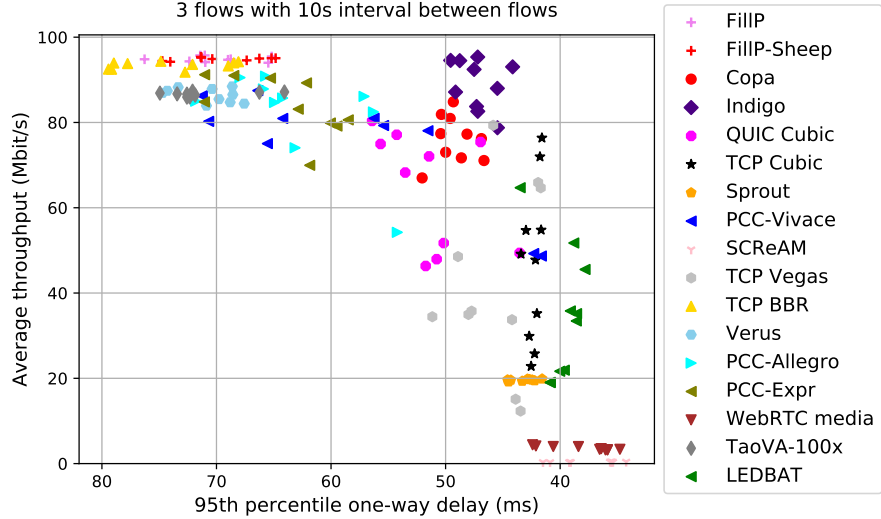
Git summary:

```
branch: master @ 9250dbeec7fb57193cdff1ba8c440b4e16ab30f0
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ 37162fe9af85249aeccac061c93e75640ef710b5
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	56.19	41.02	30.00	70.06	69.83	75.55	2.44	3.88	4.85
Copa	10	46.49	29.65	29.91	48.40	48.19	51.49	0.50	0.60	1.13
TCP Cubic	10	25.06	24.31	16.94	41.69	43.26	44.67	0.41	0.52	0.93
FillP	10	57.75	38.43	35.25	67.24	69.76	65.70	2.36	4.49	5.02
FillP-Sheep	10	59.03	39.64	28.88	64.09	67.43	71.63	3.66	7.17	7.67
Indigo	10	56.14	33.12	33.24	47.32	48.22	47.99	0.61	0.75	1.19
LEDBAT	10	19.05	16.99	13.46	39.53	39.97	40.13	0.48	0.76	1.30
PCC-Allegro	10	53.24	31.47	24.44	60.27	58.84	60.51	3.68	2.79	1.91
PCC-Expr	10	50.29	37.79	25.95	62.79	63.73	54.67	1.10	1.40	1.51
QUIC Cubic	10	34.36	31.70	27.15	46.77	53.90	53.97	0.48	0.61	1.02
SCReAM	10	0.18	0.21	0.22	36.76	36.62	37.57	0.46	0.42	0.82
Sprout	10	9.98	9.82	9.44	42.69	43.30	43.97	0.52	0.60	1.18
TaoVA-100x	10	50.48	39.40	30.19	67.47	67.76	69.90	0.89	1.37	2.30
TCP Vegas	10	22.46	19.75	20.80	44.24	44.85	50.88	0.50	0.65	1.00
Verus	10	52.30	37.98	26.82	67.19	69.52	74.38	0.67	0.79	1.38
PCC-Vivace	10	50.98	27.11	17.13	55.71	59.64	49.17	1.47	2.32	1.67
WebRTC media	10	2.00	1.16	0.49	37.75	37.50	38.06	0.38	0.57	1.04

Run 1: Statistics of TCP BBR

Start at: 2018-07-10 20:27:32

End at: 2018-07-10 20:28:02

Local clock offset: 0.237 ms

Remote clock offset: 2.851 ms

Below is generated by plot.py at 2018-07-11 00:27:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.82 Mbit/s

95th percentile per-packet one-way delay: 77.759 ms

Loss rate: 2.82%

-- Flow 1:

Average throughput: 54.77 Mbit/s

95th percentile per-packet one-way delay: 75.938 ms

Loss rate: 2.02%

-- Flow 2:

Average throughput: 46.83 Mbit/s

95th percentile per-packet one-way delay: 58.924 ms

Loss rate: 3.82%

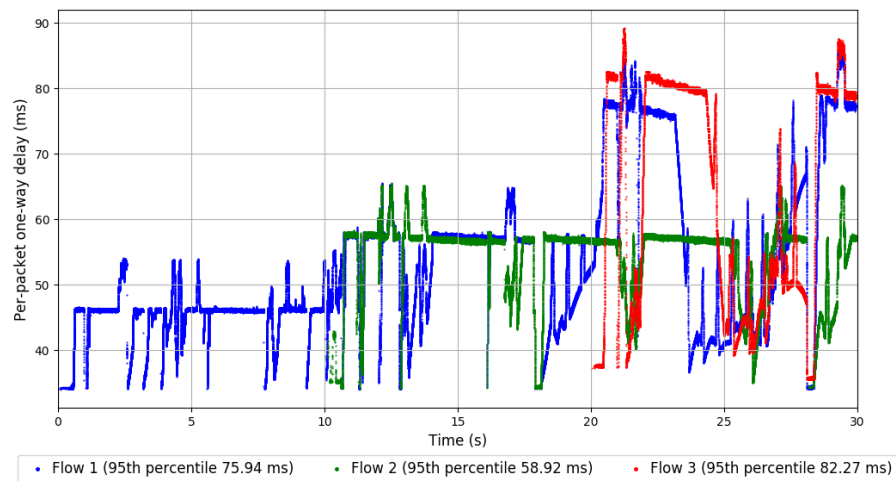
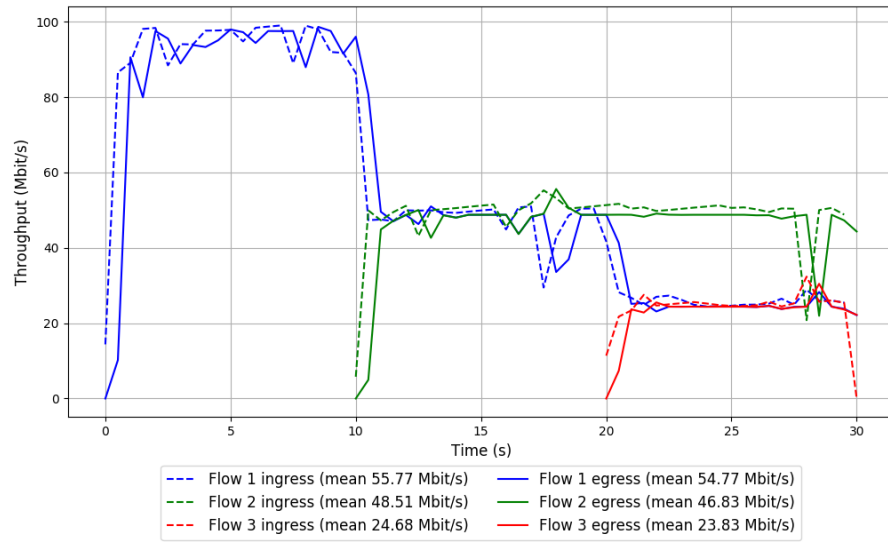
-- Flow 3:

Average throughput: 23.83 Mbit/s

95th percentile per-packet one-way delay: 82.269 ms

Loss rate: 4.33%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-07-10 20:51:29

End at: 2018-07-10 20:51:59

Local clock offset: 0.024 ms

Remote clock offset: 3.408 ms

Below is generated by plot.py at 2018-07-11 00:27:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.35 Mbit/s

95th percentile per-packet one-way delay: 74.857 ms

Loss rate: 2.73%

-- Flow 1:

Average throughput: 62.34 Mbit/s

95th percentile per-packet one-way delay: 57.261 ms

Loss rate: 2.04%

-- Flow 2:

Average throughput: 35.83 Mbit/s

95th percentile per-packet one-way delay: 76.319 ms

Loss rate: 3.64%

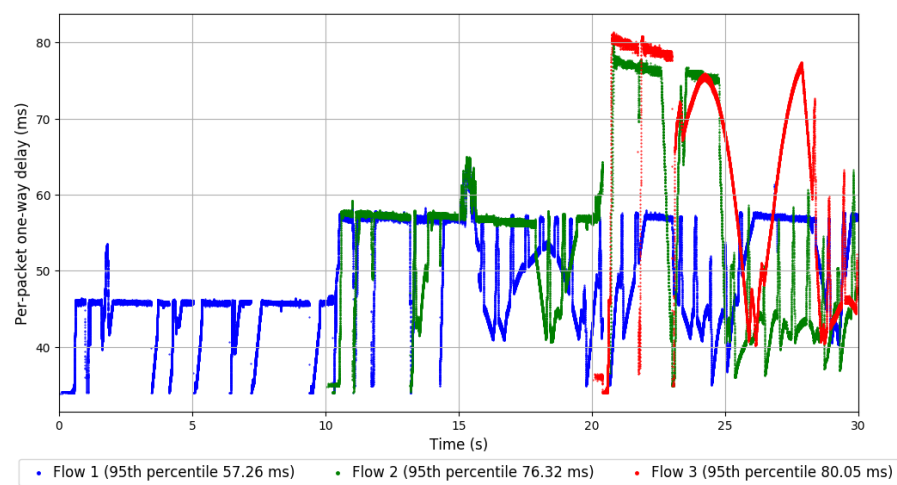
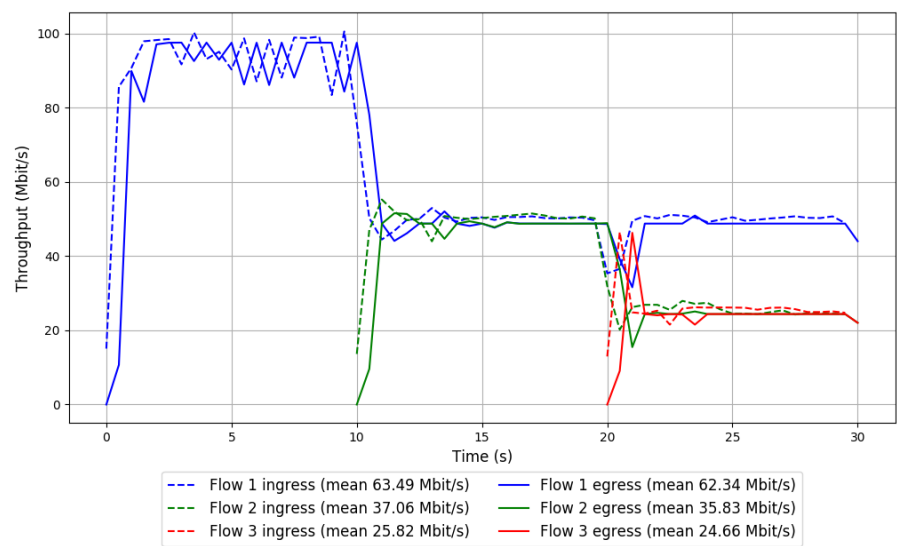
-- Flow 3:

Average throughput: 24.66 Mbit/s

95th percentile per-packet one-way delay: 80.051 ms

Loss rate: 5.20%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-07-10 21:15:26

End at: 2018-07-10 21:15:56

Local clock offset: 0.012 ms

Remote clock offset: 2.95 ms

Below is generated by plot.py at 2018-07-11 00:27:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.98 Mbit/s

95th percentile per-packet one-way delay: 68.491 ms

Loss rate: 2.32%

-- Flow 1:

Average throughput: 56.88 Mbit/s

95th percentile per-packet one-way delay: 63.064 ms

Loss rate: 1.59%

-- Flow 2:

Average throughput: 39.98 Mbit/s

95th percentile per-packet one-way delay: 69.551 ms

Loss rate: 3.18%

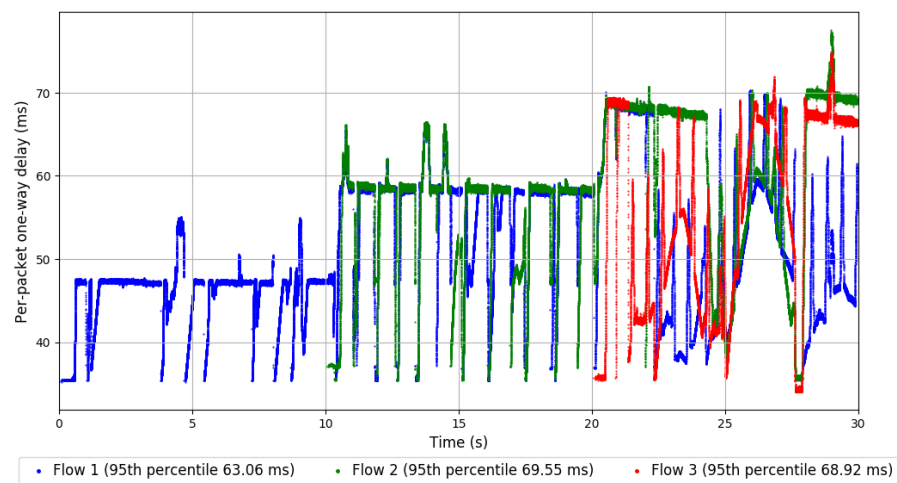
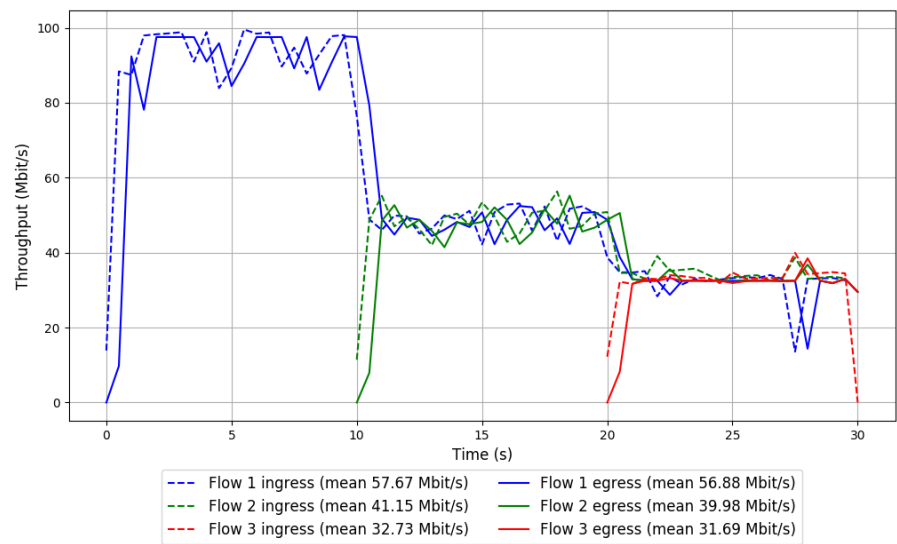
-- Flow 3:

Average throughput: 31.69 Mbit/s

95th percentile per-packet one-way delay: 68.915 ms

Loss rate: 3.99%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-07-10 21:39:10

End at: 2018-07-10 21:39:40

Local clock offset: 0.048 ms

Remote clock offset: 3.294 ms

Below is generated by plot.py at 2018-07-11 00:27:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.94 Mbit/s

95th percentile per-packet one-way delay: 78.961 ms

Loss rate: 3.20%

-- Flow 1:

Average throughput: 54.52 Mbit/s

95th percentile per-packet one-way delay: 75.994 ms

Loss rate: 2.68%

-- Flow 2:

Average throughput: 36.07 Mbit/s

95th percentile per-packet one-way delay: 81.327 ms

Loss rate: 4.24%

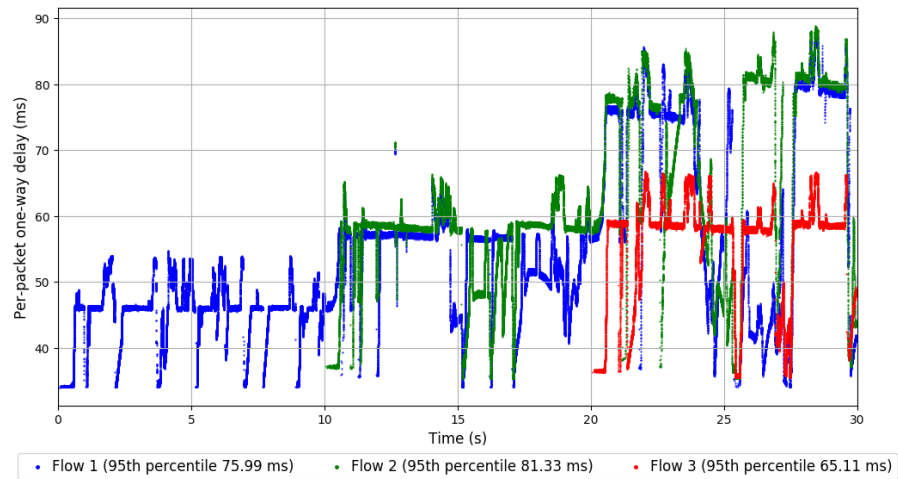
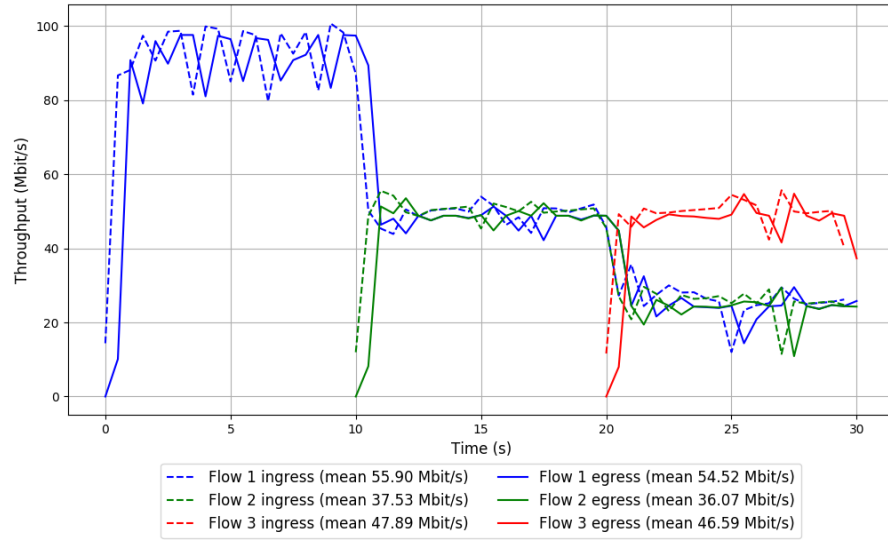
-- Flow 3:

Average throughput: 46.59 Mbit/s

95th percentile per-packet one-way delay: 65.107 ms

Loss rate: 3.39%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-07-10 22:03:57

End at: 2018-07-10 22:04:27

Local clock offset: -0.077 ms

Remote clock offset: 3.759 ms

Below is generated by plot.py at 2018-07-11 00:27:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.25 Mbit/s

95th percentile per-packet one-way delay: 68.083 ms

Loss rate: 2.65%

-- Flow 1:

Average throughput: 57.27 Mbit/s

95th percentile per-packet one-way delay: 67.230 ms

Loss rate: 1.97%

-- Flow 2:

Average throughput: 39.64 Mbit/s

95th percentile per-packet one-way delay: 68.100 ms

Loss rate: 3.62%

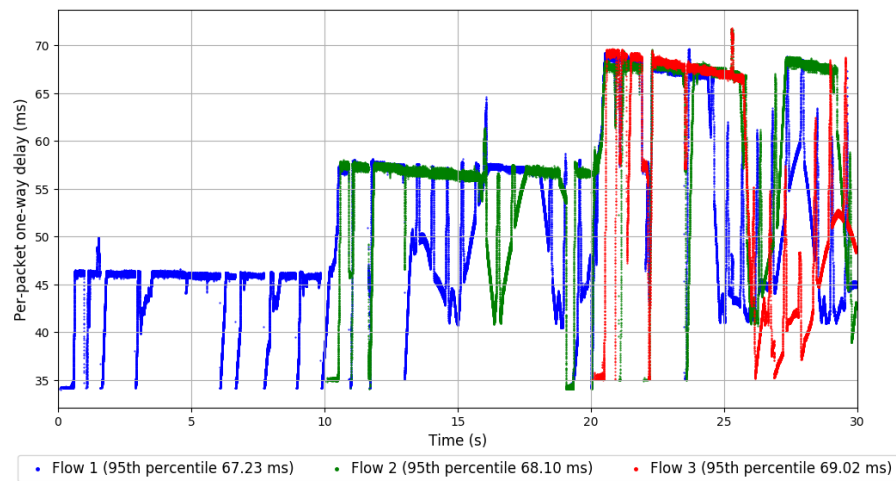
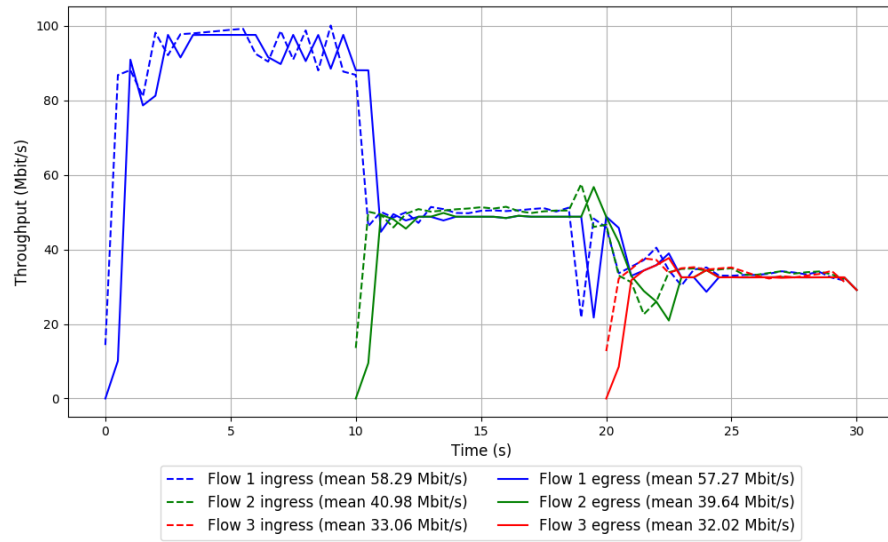
-- Flow 3:

Average throughput: 32.02 Mbit/s

95th percentile per-packet one-way delay: 69.020 ms

Loss rate: 3.83%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-07-10 22:27:58

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

Local clock offset: -0.104 ms

Remote clock offset: 6.941 ms

Below is generated by plot.py at 2018-07-11 00:27:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.26 Mbit/s

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

Loss rate: 3.05%

-- Flow 1:

Average throughput: 56.53 Mbit/s

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

Loss rate: 2.54%

-- Flow 2:

Average throughput: 39.79 Mbit/s

95th percentile per-packet one-way delay: 69.467 ms

Loss rate: 3.77%

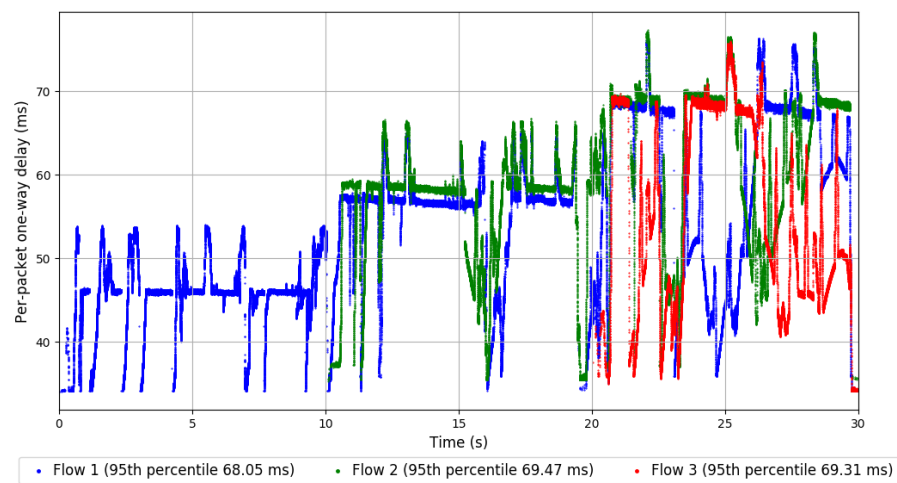
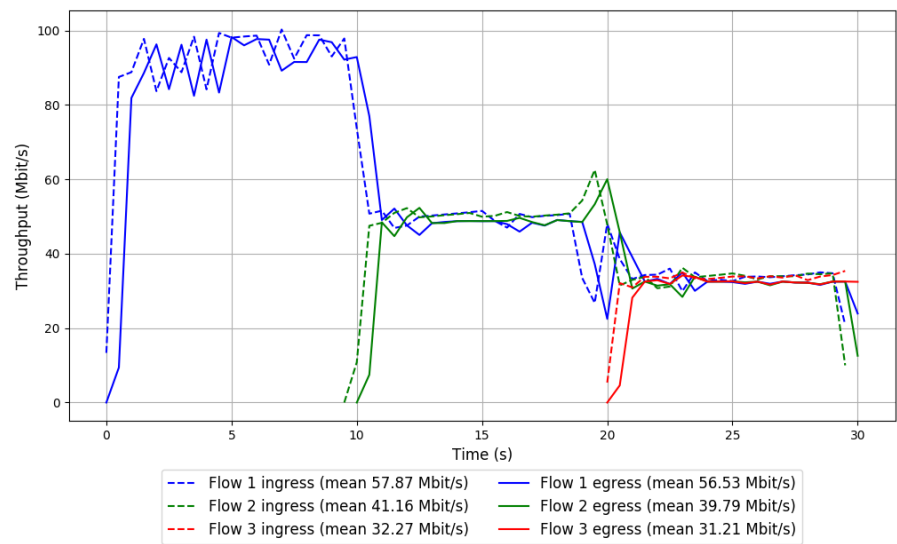
-- Flow 3:

Average throughput: 31.21 Mbit/s

95th percentile per-packet one-way delay: 69.310 ms

Loss rate: 3.99%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-07-10 22:52:50

End at: 2018-07-10 22:53:20

Local clock offset: -0.126 ms

Remote clock offset: 3.722 ms

Below is generated by plot.py at 2018-07-11 00:27:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.61 Mbit/s

95th percentile per-packet one-way delay: 72.094 ms

Loss rate: 3.57%

-- Flow 1:

Average throughput: 56.96 Mbit/s

95th percentile per-packet one-way delay: 68.636 ms

Loss rate: 3.06%

-- Flow 2:

Average throughput: 39.43 Mbit/s

95th percentile per-packet one-way delay: 72.730 ms

Loss rate: 4.09%

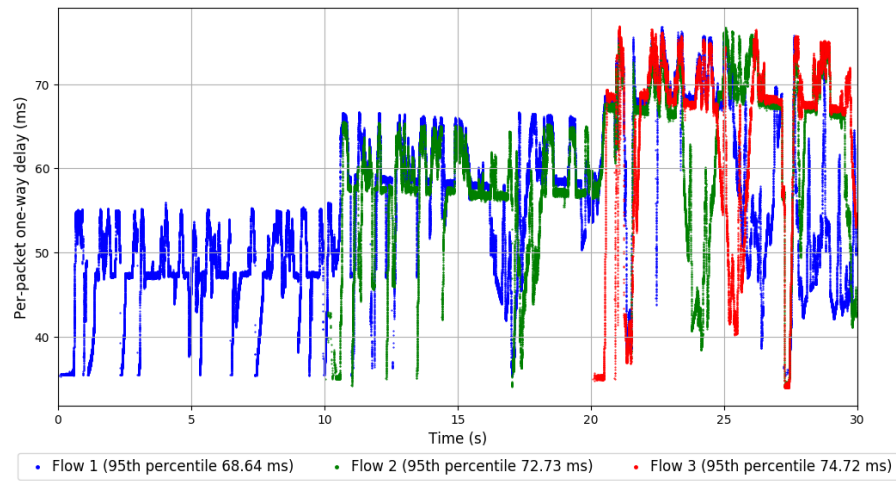
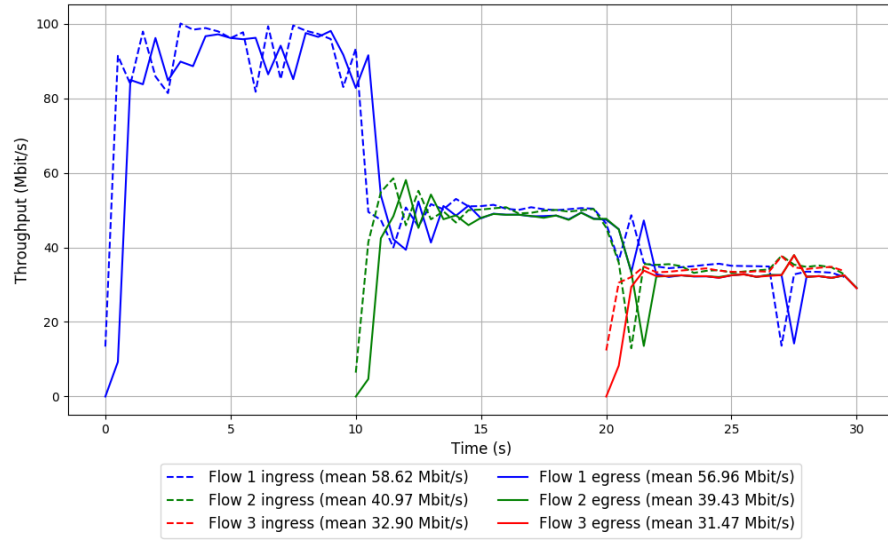
-- Flow 3:

Average throughput: 31.47 Mbit/s

95th percentile per-packet one-way delay: 74.721 ms

Loss rate: 5.02%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-07-10 23:18:11

End at: 2018-07-10 23:18:41

Local clock offset: -0.664 ms

Remote clock offset: 1.798 ms

Below is generated by plot.py at 2018-07-11 00:27:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.49 Mbit/s

95th percentile per-packet one-way delay: 79.156 ms

Loss rate: 3.55%

-- Flow 1:

Average throughput: 53.71 Mbit/s

95th percentile per-packet one-way delay: 78.086 ms

Loss rate: 2.85%

-- Flow 2:

Average throughput: 46.56 Mbit/s

95th percentile per-packet one-way delay: 64.091 ms

Loss rate: 4.06%

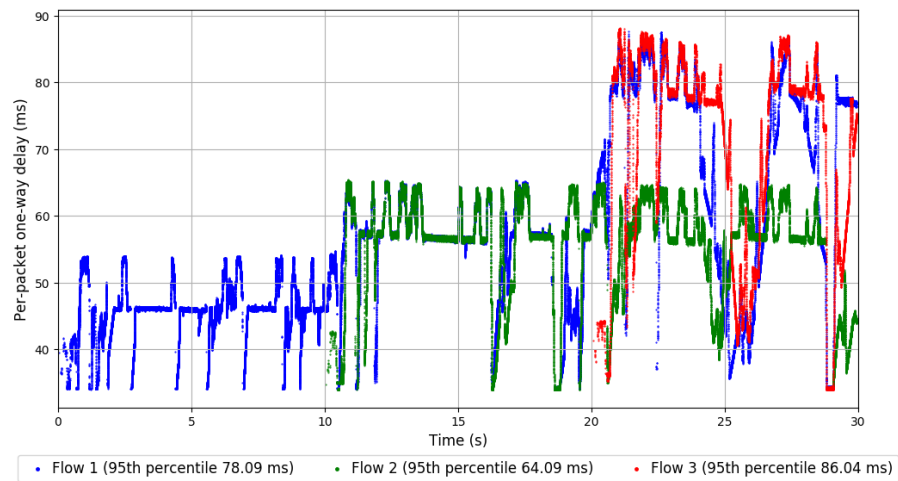
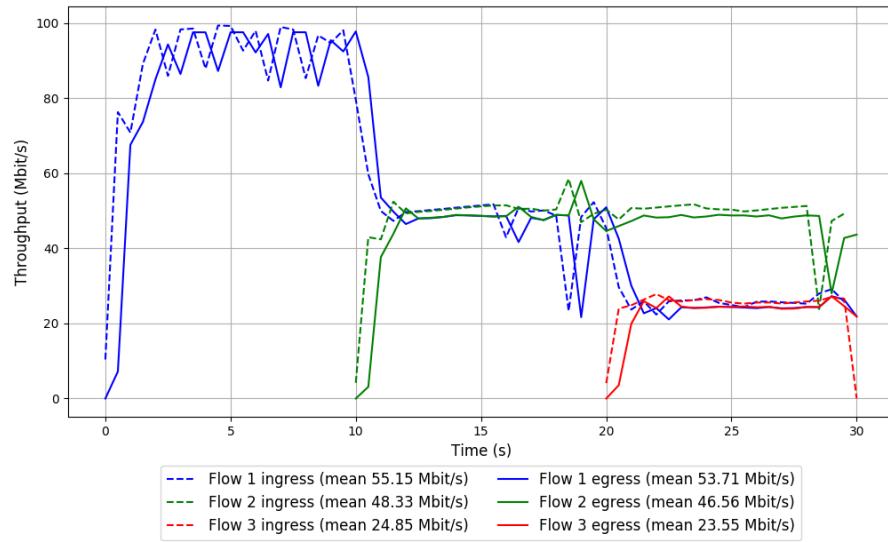
-- Flow 3:

Average throughput: 23.55 Mbit/s

95th percentile per-packet one-way delay: 86.041 ms

Loss rate: 6.17%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-07-10 23:44:30

End at: 2018-07-10 23:45:00

Local clock offset: -0.902 ms

Remote clock offset: 1.383 ms

Below is generated by plot.py at 2018-07-11 00:28:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.80 Mbit/s

95th percentile per-packet one-way delay: 72.744 ms

Loss rate: 3.66%

-- Flow 1:

Average throughput: 55.22 Mbit/s

95th percentile per-packet one-way delay: 67.182 ms

Loss rate: 2.96%

-- Flow 2:

Average throughput: 39.43 Mbit/s

95th percentile per-packet one-way delay: 72.488 ms

Loss rate: 4.25%

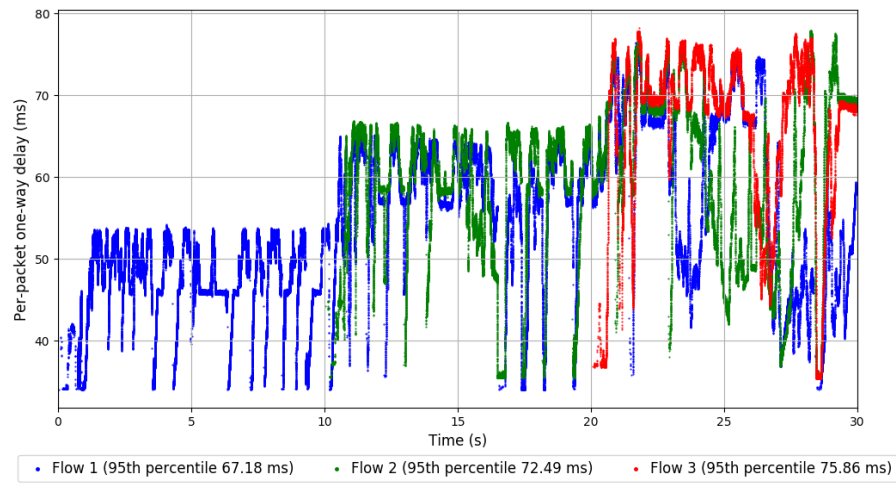
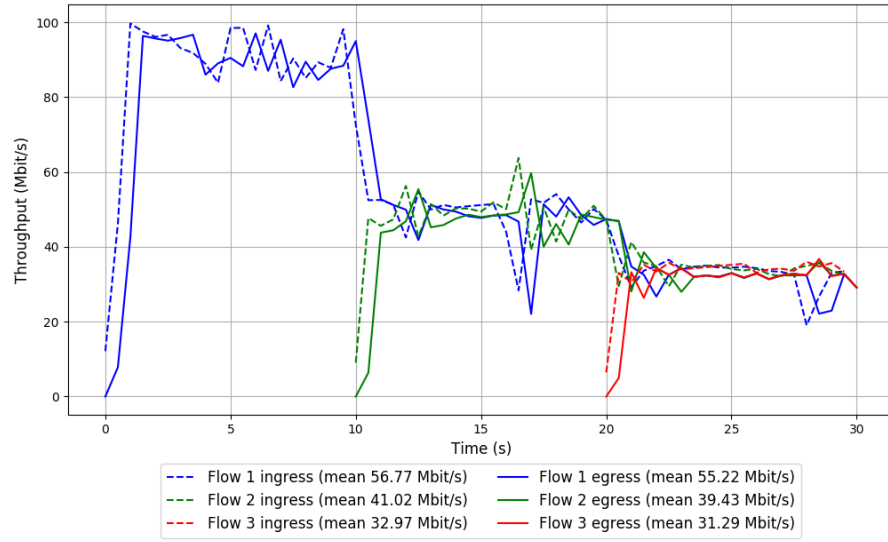
-- Flow 3:

Average throughput: 31.29 Mbit/s

95th percentile per-packet one-way delay: 75.862 ms

Loss rate: 5.80%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-07-11 00:09:52

End at: 2018-07-11 00:10:22

Local clock offset: -0.06 ms

Remote clock offset: 2.619 ms

Below is generated by plot.py at 2018-07-11 00:28:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.52 Mbit/s

95th percentile per-packet one-way delay: 79.429 ms

Loss rate: 3.51%

-- Flow 1:

Average throughput: 53.69 Mbit/s

95th percentile per-packet one-way delay: 79.163 ms

Loss rate: 2.64%

-- Flow 2:

Average throughput: 46.59 Mbit/s

95th percentile per-packet one-way delay: 65.352 ms

Loss rate: 4.15%

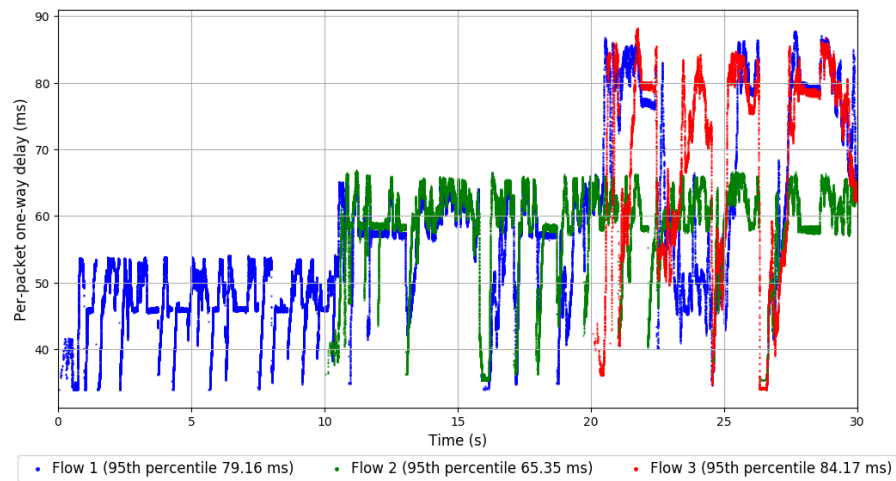
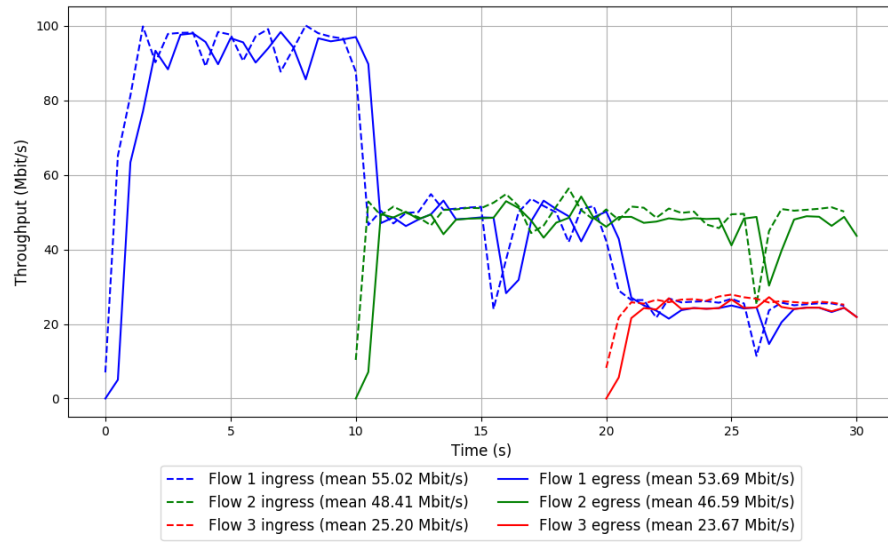
-- Flow 3:

Average throughput: 23.67 Mbit/s

95th percentile per-packet one-way delay: 84.170 ms

Loss rate: 6.80%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-07-10 20:23:18

End at: 2018-07-10 20:23:48

Local clock offset: 0.292 ms

Remote clock offset: 2.831 ms

Below is generated by plot.py at 2018-07-11 00:29:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.38 Mbit/s

95th percentile per-packet one-way delay: 50.422 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 51.98 Mbit/s

95th percentile per-packet one-way delay: 50.855 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 26.33 Mbit/s

95th percentile per-packet one-way delay: 49.705 ms

Loss rate: 0.31%

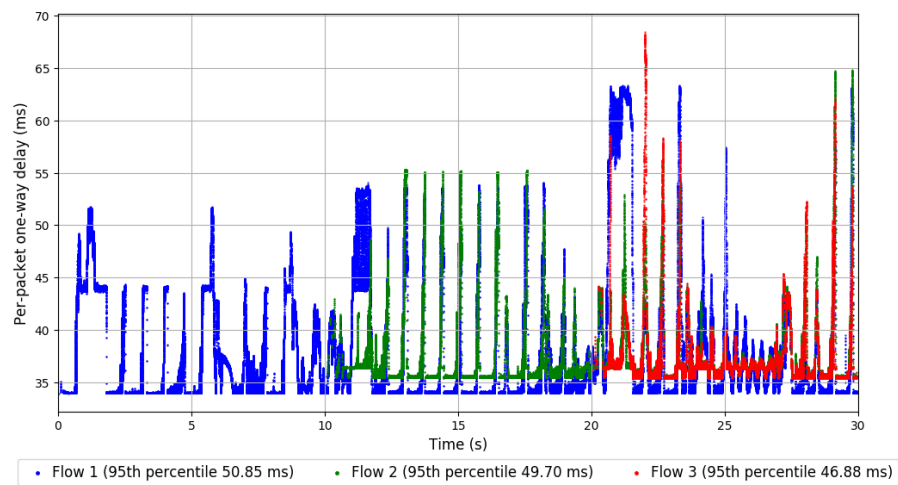
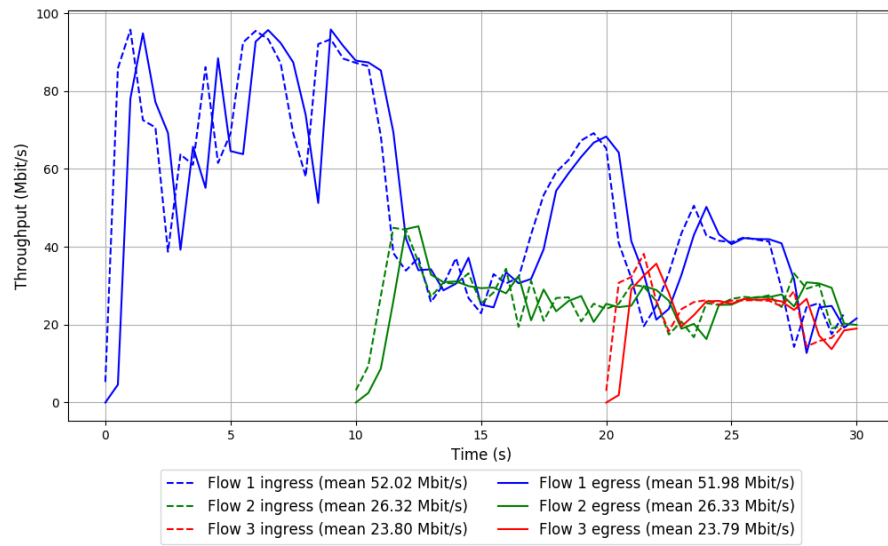
-- Flow 3:

Average throughput: 23.79 Mbit/s

95th percentile per-packet one-way delay: 46.880 ms

Loss rate: 0.71%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-07-10 20:47:07

End at: 2018-07-10 20:47:37

Local clock offset: 0.024 ms

Remote clock offset: 3.271 ms

Below is generated by plot.py at 2018-07-11 00:29:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.89 Mbit/s

95th percentile per-packet one-way delay: 50.368 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 51.03 Mbit/s

95th percentile per-packet one-way delay: 50.797 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 31.50 Mbit/s

95th percentile per-packet one-way delay: 43.182 ms

Loss rate: 0.19%

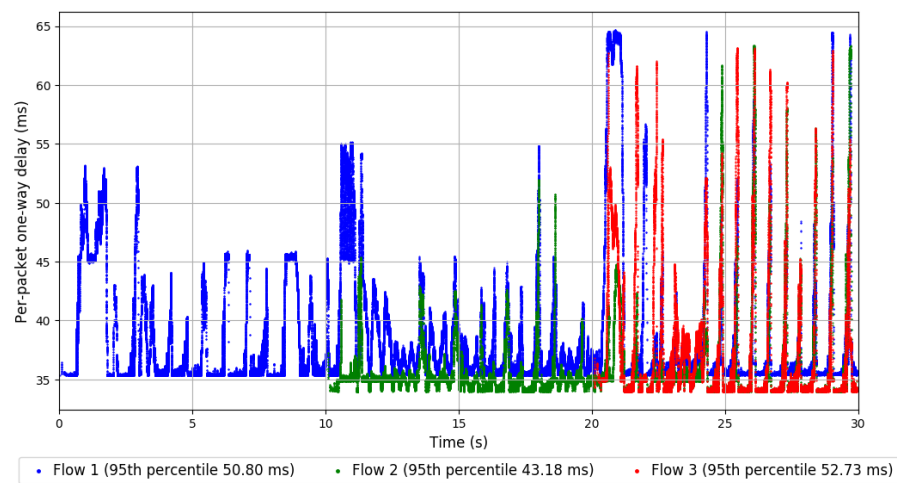
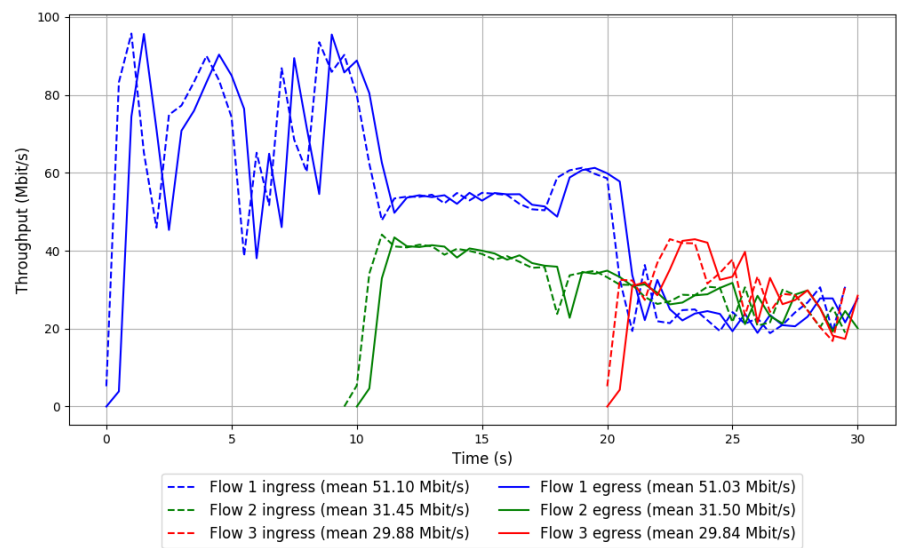
-- Flow 3:

Average throughput: 29.84 Mbit/s

95th percentile per-packet one-way delay: 52.730 ms

Loss rate: 0.83%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

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

End at: 2018-07-10 21:11:41

Local clock offset: 0.114 ms

Remote clock offset: 3.03 ms

Below is generated by plot.py at 2018-07-11 00:29:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.26 Mbit/s

95th percentile per-packet one-way delay: 48.131 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 49.18 Mbit/s

95th percentile per-packet one-way delay: 45.323 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 28.12 Mbit/s

95th percentile per-packet one-way delay: 52.917 ms

Loss rate: 0.80%

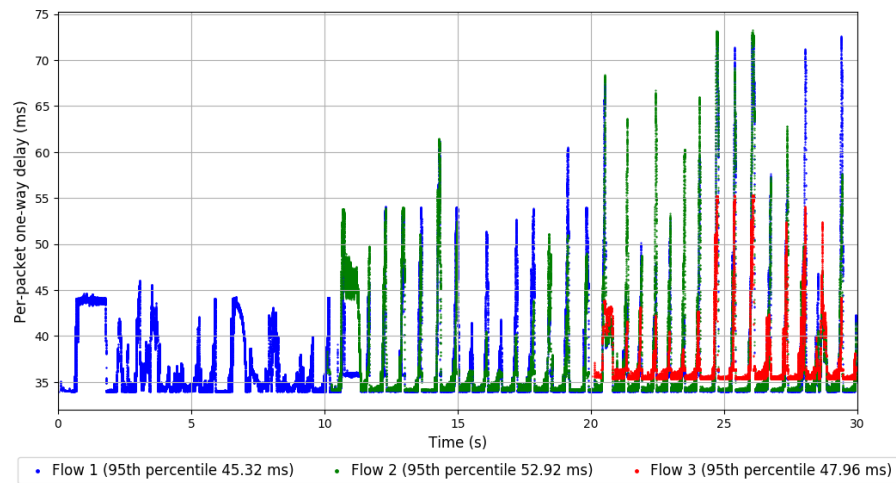
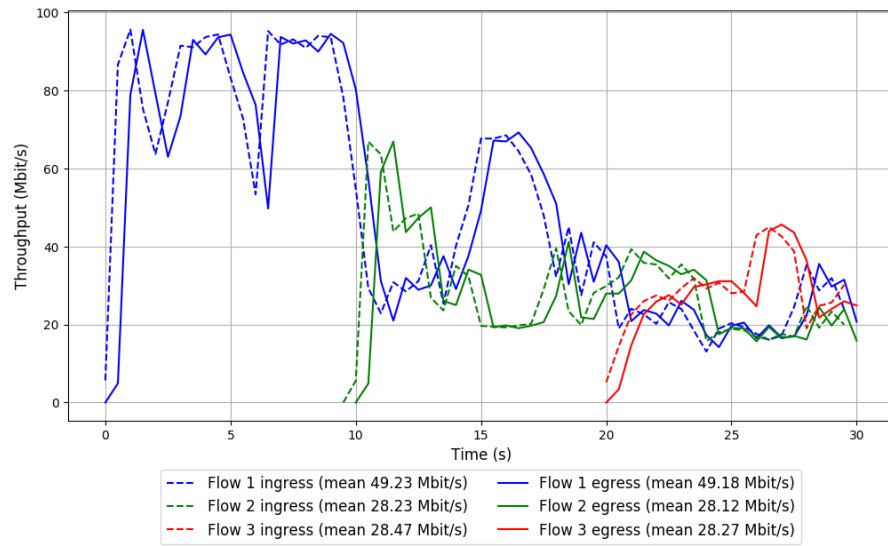
-- Flow 3:

Average throughput: 28.27 Mbit/s

95th percentile per-packet one-way delay: 47.963 ms

Loss rate: 1.40%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-07-10 21:34:45

End at: 2018-07-10 21:35:15

Local clock offset: 0.046 ms

Remote clock offset: 3.203 ms

Below is generated by plot.py at 2018-07-11 00:29:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.94 Mbit/s

95th percentile per-packet one-way delay: 49.600 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 43.91 Mbit/s

95th percentile per-packet one-way delay: 49.937 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 38.24 Mbit/s

95th percentile per-packet one-way delay: 42.036 ms

Loss rate: 0.49%

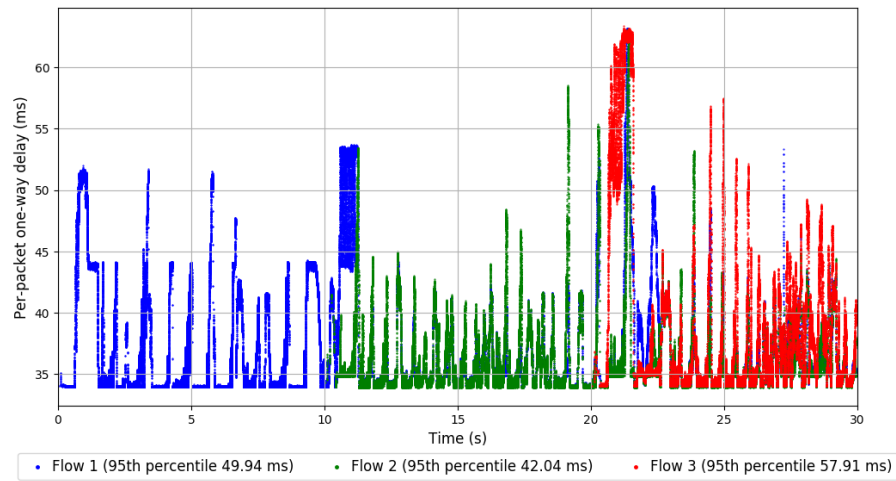
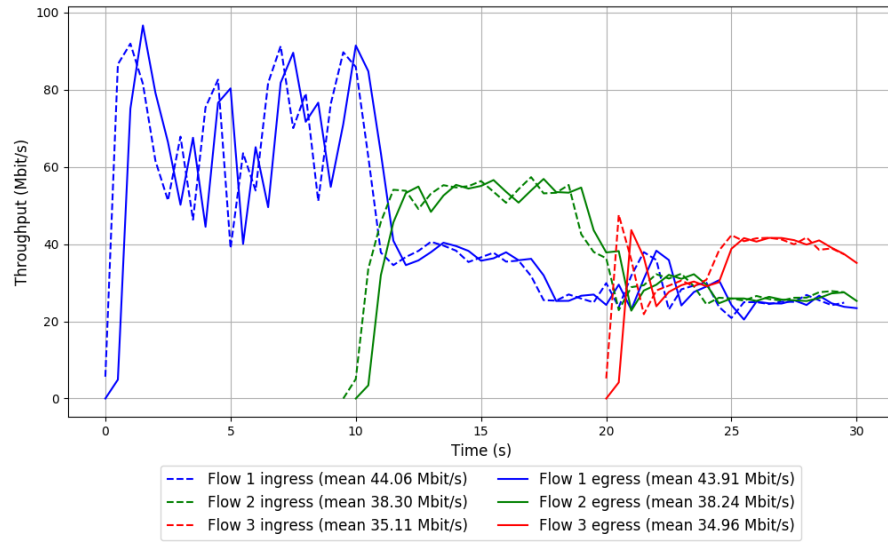
-- Flow 3:

Average throughput: 34.96 Mbit/s

95th percentile per-packet one-way delay: 57.907 ms

Loss rate: 1.13%

Run 4: Report of Copa — Data Link

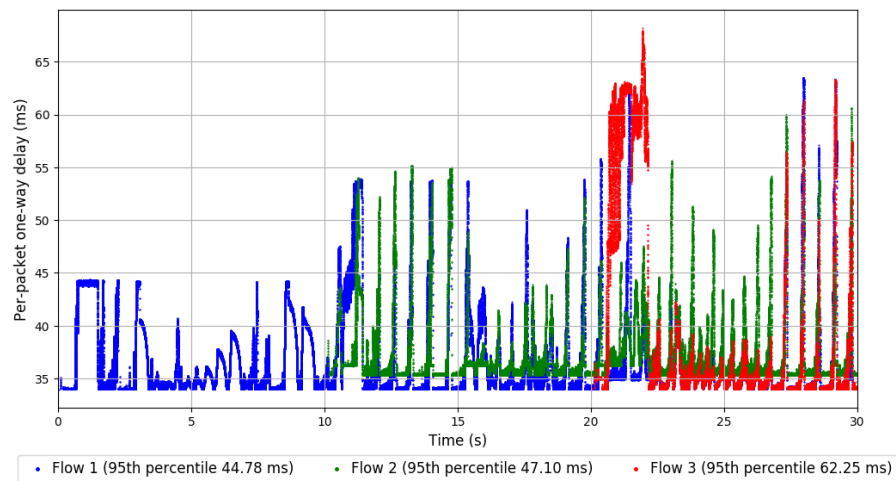
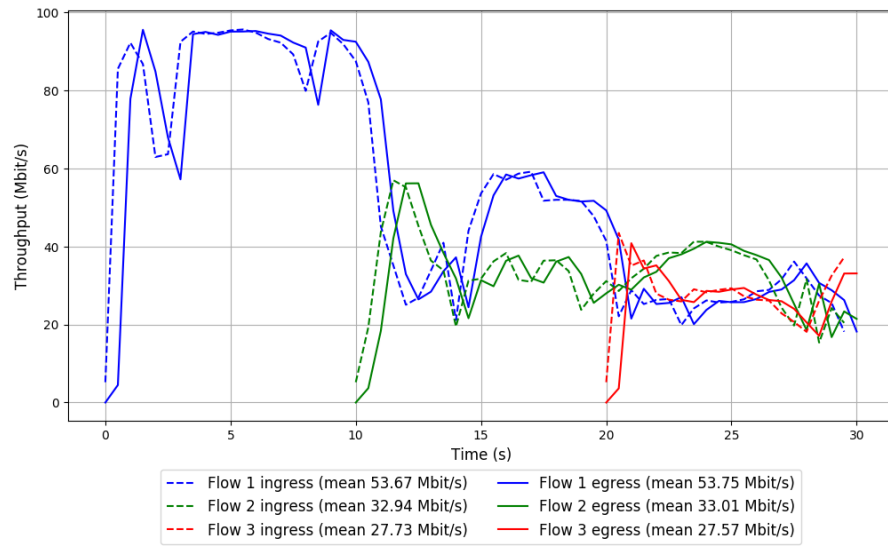


Run 5: Statistics of Copa

Start at: 2018-07-10 21:59:31
End at: 2018-07-10 22:00:01
Local clock offset: -0.128 ms
Remote clock offset: 3.64 ms

Below is generated by plot.py at 2018-07-11 00:29:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.85 Mbit/s
95th percentile per-packet one-way delay: 49.325 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 53.75 Mbit/s
95th percentile per-packet one-way delay: 44.776 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 33.01 Mbit/s
95th percentile per-packet one-way delay: 47.099 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 27.57 Mbit/s
95th percentile per-packet one-way delay: 62.251 ms
Loss rate: 1.25%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-07-10 22:23:37

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

Local clock offset: -0.093 ms

Remote clock offset: 6.517 ms

Below is generated by plot.py at 2018-07-11 00:29:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.01 Mbit/s

95th percentile per-packet one-way delay: 49.994 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 44.62 Mbit/s

95th percentile per-packet one-way delay: 48.331 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 26.51 Mbit/s

95th percentile per-packet one-way delay: 48.979 ms

Loss rate: 0.56%

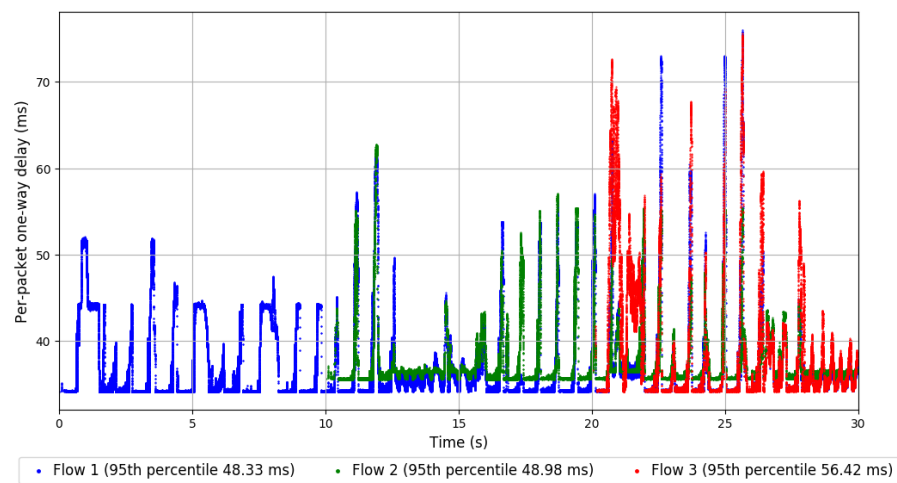
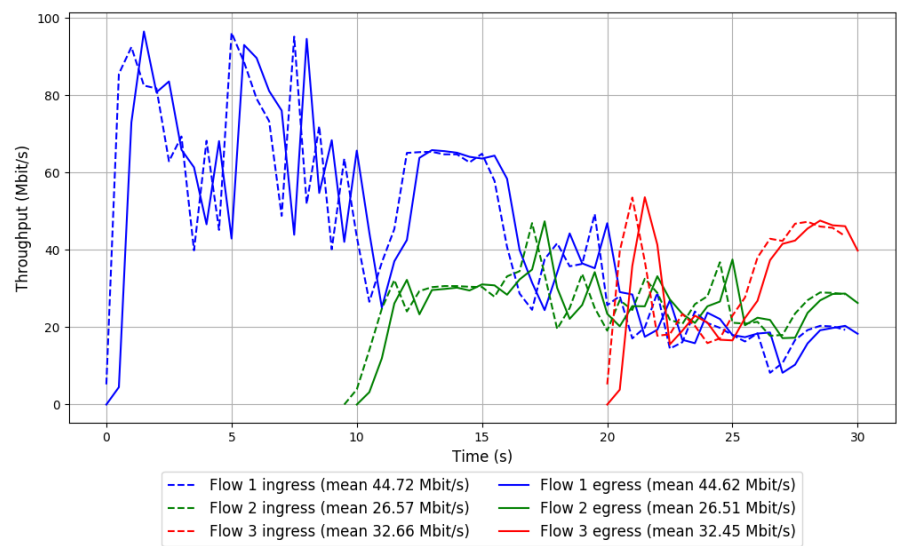
-- Flow 3:

Average throughput: 32.45 Mbit/s

95th percentile per-packet one-way delay: 56.419 ms

Loss rate: 1.34%

Run 6: Report of Copa — Data Link

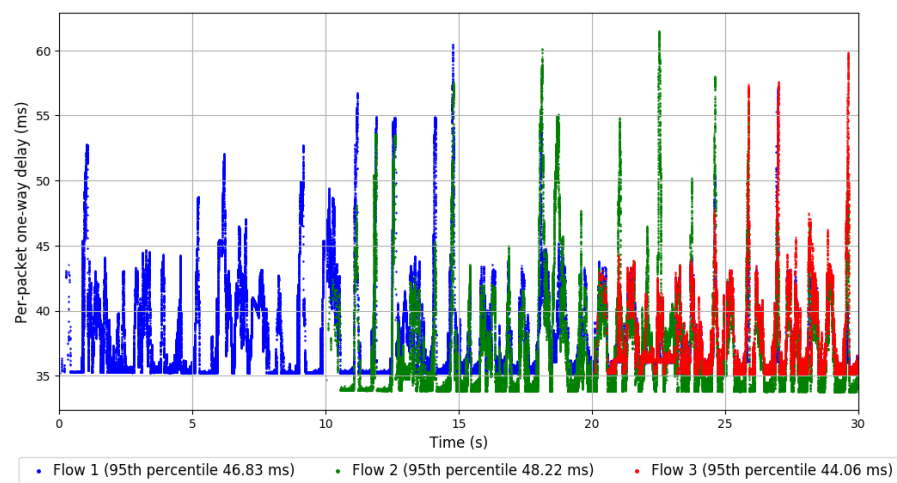
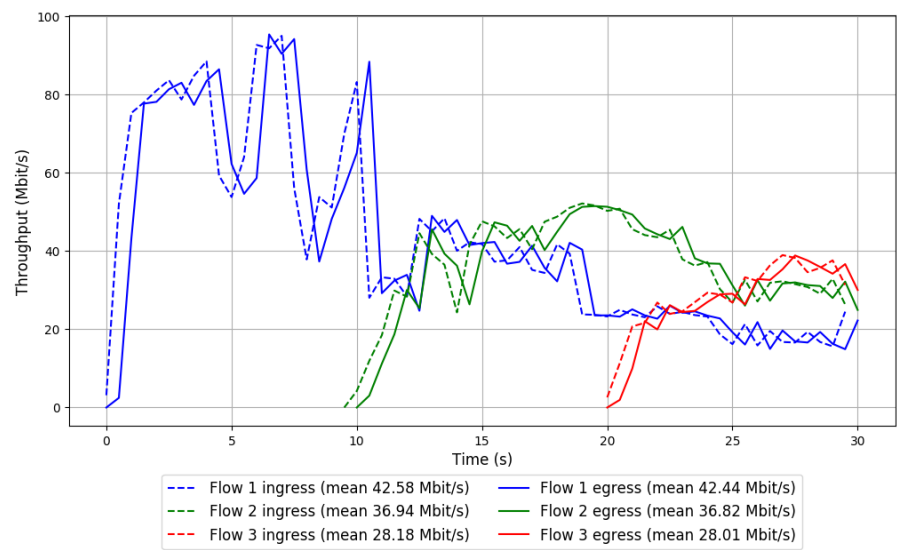


Run 7: Statistics of Copa

Start at: 2018-07-10 22:48:18
End at: 2018-07-10 22:48:48
Local clock offset: -0.195 ms
Remote clock offset: 4.837 ms

Below is generated by plot.py at 2018-07-11 00:30:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.22 Mbit/s
95th percentile per-packet one-way delay: 46.874 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 42.44 Mbit/s
95th percentile per-packet one-way delay: 46.829 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 36.82 Mbit/s
95th percentile per-packet one-way delay: 48.215 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 28.01 Mbit/s
95th percentile per-packet one-way delay: 44.057 ms
Loss rate: 1.33%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-07-10 23:13:45

End at: 2018-07-10 23:14:15

Local clock offset: -0.559 ms

Remote clock offset: 1.872 ms

Below is generated by plot.py at 2018-07-11 00:30:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 71.70 Mbit/s

95th percentile per-packet one-way delay: 48.624 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 42.24 Mbit/s

95th percentile per-packet one-way delay: 49.169 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 25.12 Mbit/s

95th percentile per-packet one-way delay: 51.037 ms

Loss rate: 0.81%

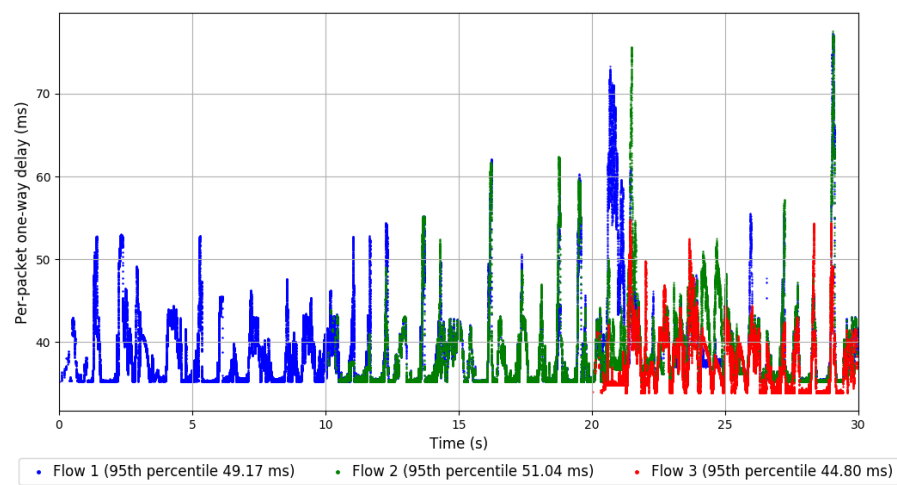
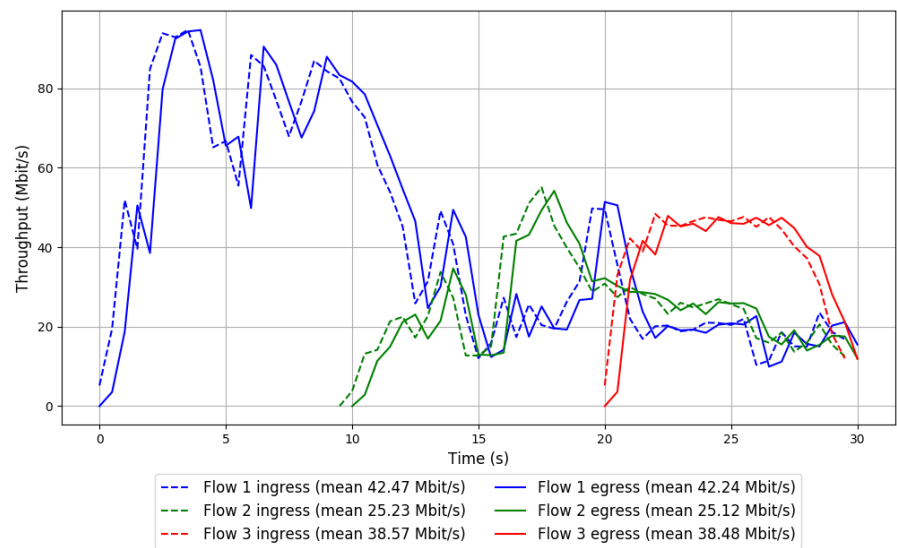
-- Flow 3:

Average throughput: 38.48 Mbit/s

95th percentile per-packet one-way delay: 44.795 ms

Loss rate: 0.91%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-07-10 23:39:22

End at: 2018-07-10 23:39:52

Local clock offset: -1.005 ms

Remote clock offset: 1.51 ms

Below is generated by plot.py at 2018-07-11 00:30:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.00 Mbit/s

95th percentile per-packet one-way delay: 52.047 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 41.58 Mbit/s

95th percentile per-packet one-way delay: 51.603 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 25.88 Mbit/s

95th percentile per-packet one-way delay: 53.173 ms

Loss rate: 1.16%

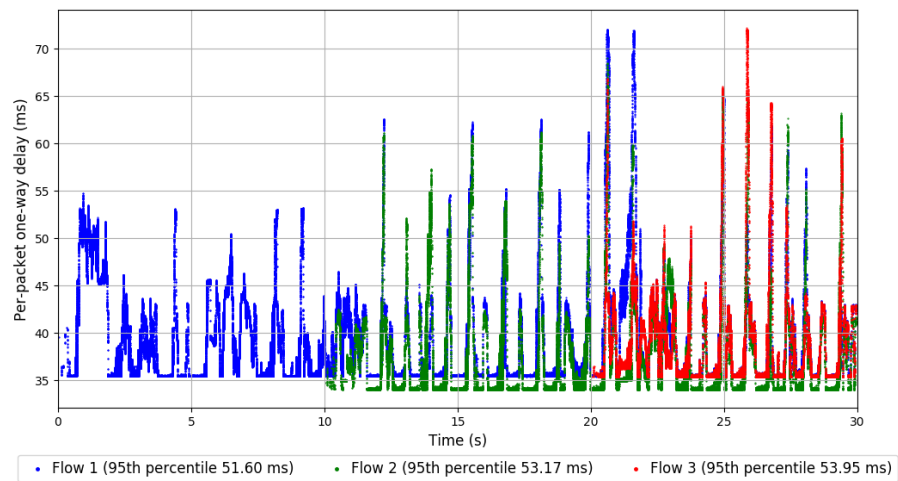
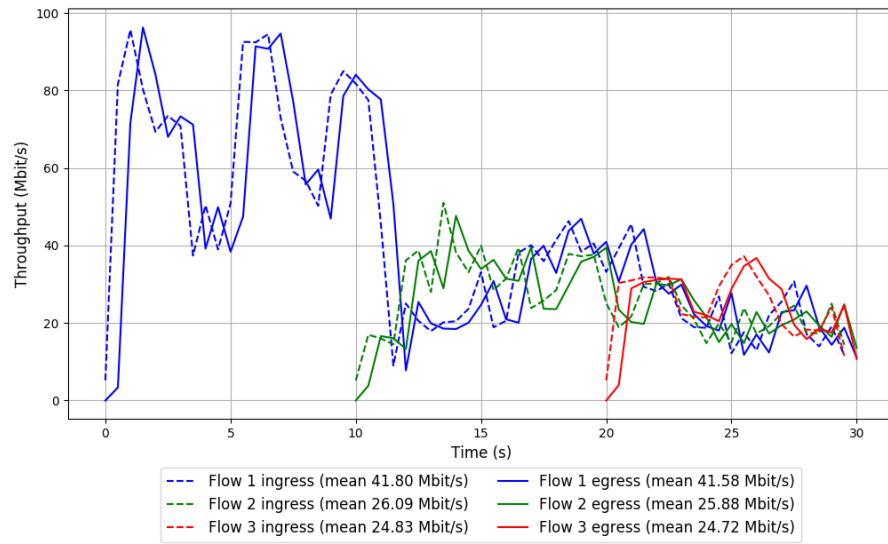
-- Flow 3:

Average throughput: 24.72 Mbit/s

95th percentile per-packet one-way delay: 53.952 ms

Loss rate: 1.15%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-07-11 00:05:12

End at: 2018-07-11 00:05:42

Local clock offset: -0.141 ms

Remote clock offset: 2.505 ms

Below is generated by plot.py at 2018-07-11 00:30:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 71.07 Mbit/s

95th percentile per-packet one-way delay: 46.649 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 44.15 Mbit/s

95th percentile per-packet one-way delay: 46.340 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 25.01 Mbit/s

95th percentile per-packet one-way delay: 45.556 ms

Loss rate: 0.84%

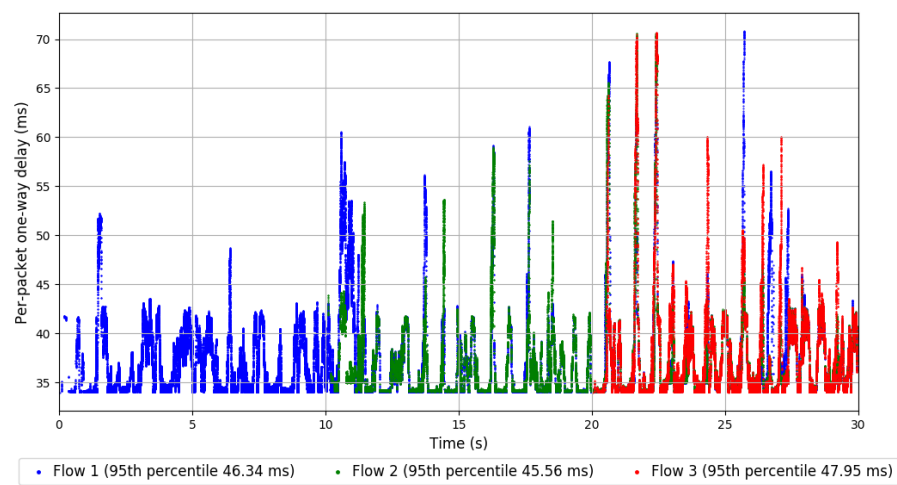
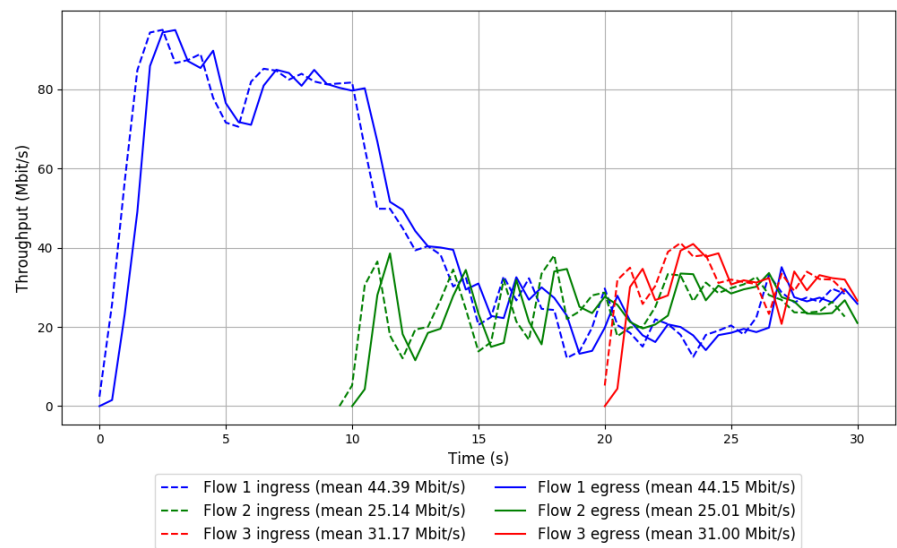
-- Flow 3:

Average throughput: 31.00 Mbit/s

95th percentile per-packet one-way delay: 47.945 ms

Loss rate: 1.24%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-07-10 20:18:49

End at: 2018-07-10 20:19:19

Local clock offset: 0.326 ms

Remote clock offset: 2.748 ms

Below is generated by plot.py at 2018-07-11 00:30:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.16 Mbit/s

95th percentile per-packet one-way delay: 43.417 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 25.67 Mbit/s

95th percentile per-packet one-way delay: 43.093 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 30.75 Mbit/s

95th percentile per-packet one-way delay: 44.908 ms

Loss rate: 0.44%

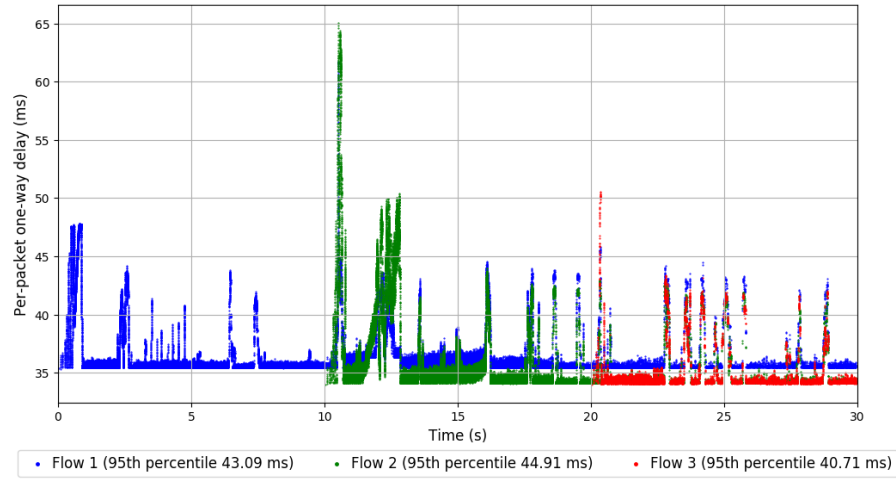
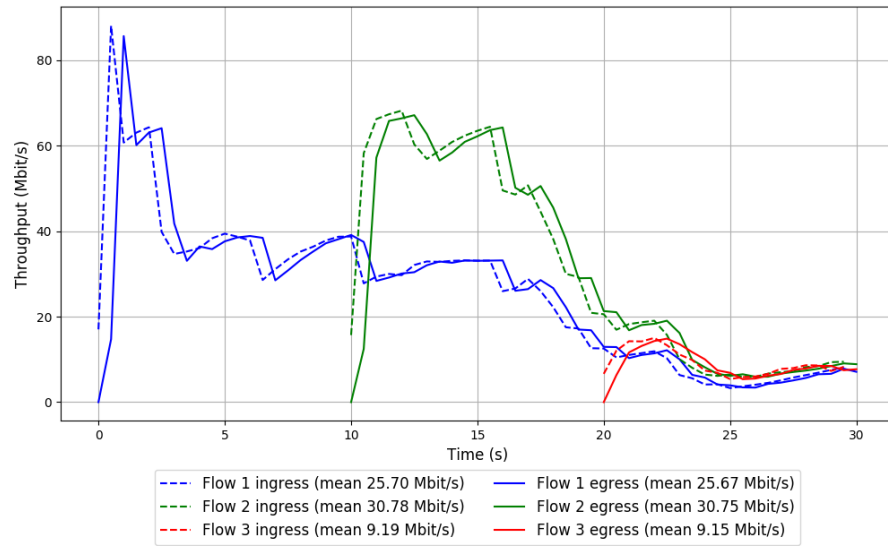
-- Flow 3:

Average throughput: 9.15 Mbit/s

95th percentile per-packet one-way delay: 40.707 ms

Loss rate: 1.13%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-07-10 20:42:44

End at: 2018-07-10 20:43:14

Local clock offset: 0.113 ms

Remote clock offset: 3.179 ms

Below is generated by plot.py at 2018-07-11 00:30:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 54.70 Mbit/s

95th percentile per-packet one-way delay: 42.985 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 31.60 Mbit/s

95th percentile per-packet one-way delay: 42.475 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 21.08 Mbit/s

95th percentile per-packet one-way delay: 43.085 ms

Loss rate: 0.41%

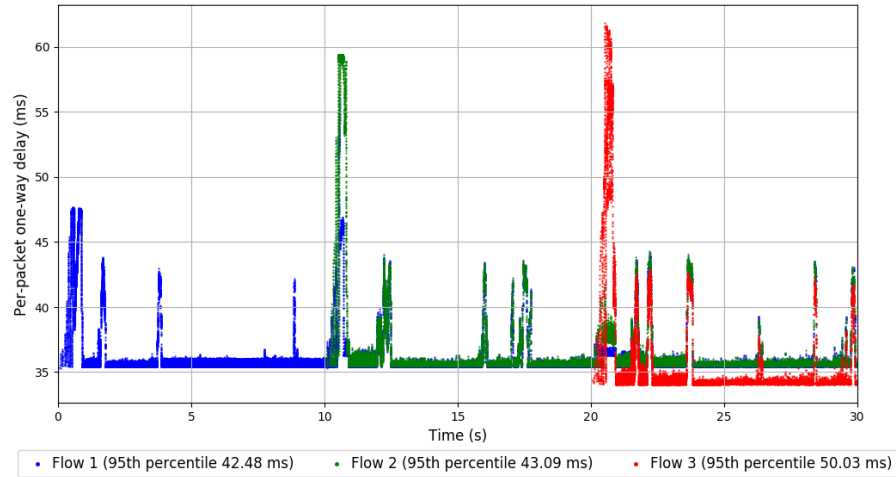
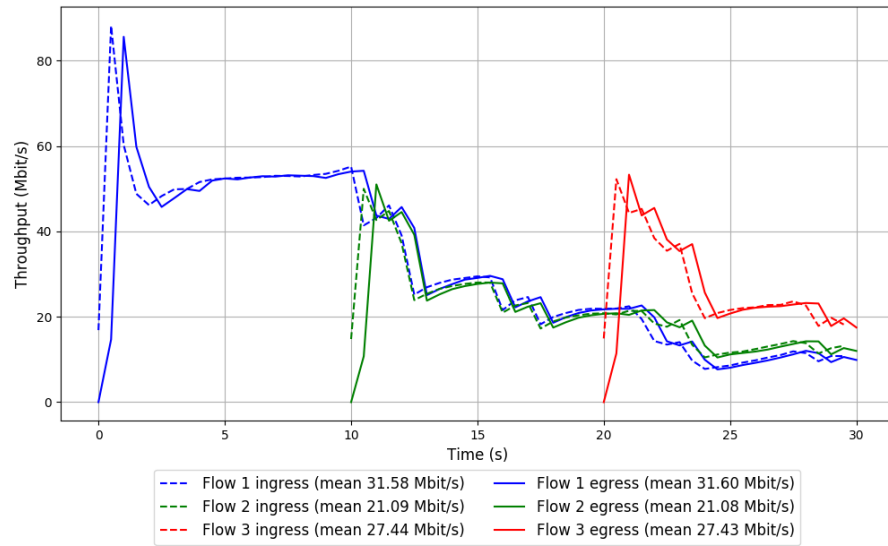
-- Flow 3:

Average throughput: 27.43 Mbit/s

95th percentile per-packet one-way delay: 50.035 ms

Loss rate: 0.71%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-07-10 21:06:56

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

Local clock offset: 0.095 ms

Remote clock offset: 3.136 ms

Below is generated by plot.py at 2018-07-11 00:30:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 54.79 Mbit/s

95th percentile per-packet one-way delay: 41.661 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 37.41 Mbit/s

95th percentile per-packet one-way delay: 41.159 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 21.45 Mbit/s

95th percentile per-packet one-way delay: 43.562 ms

Loss rate: 0.44%

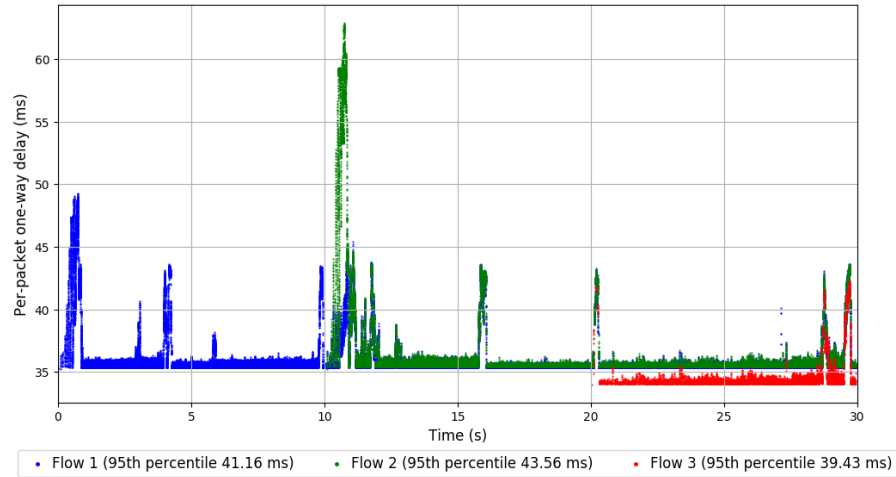
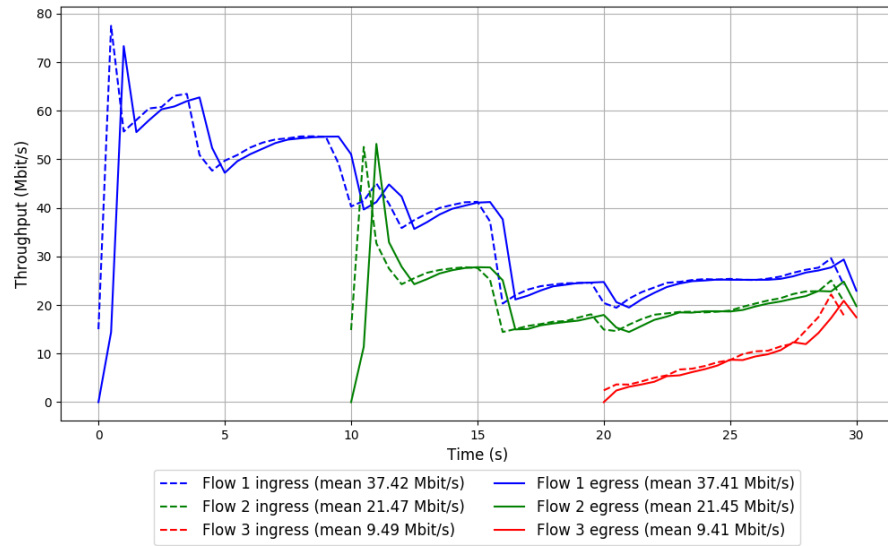
-- Flow 3:

Average throughput: 9.41 Mbit/s

95th percentile per-packet one-way delay: 39.429 ms

Loss rate: 1.51%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-07-10 21:30:29

End at: 2018-07-10 21:30:59

Local clock offset: 0.048 ms

Remote clock offset: 3.105 ms

Below is generated by plot.py at 2018-07-11 00:30:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 47.78 Mbit/s

95th percentile per-packet one-way delay: 42.151 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 17.89 Mbit/s

95th percentile per-packet one-way delay: 41.565 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 34.39 Mbit/s

95th percentile per-packet one-way delay: 41.391 ms

Loss rate: 0.34%

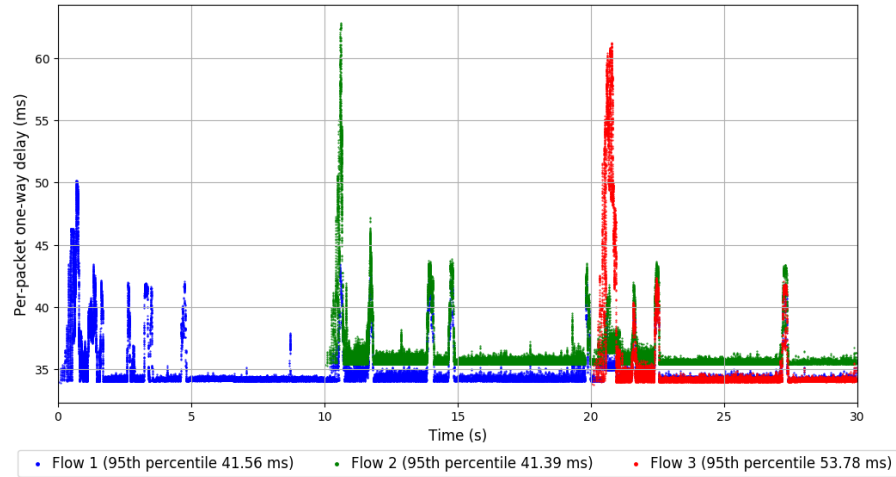
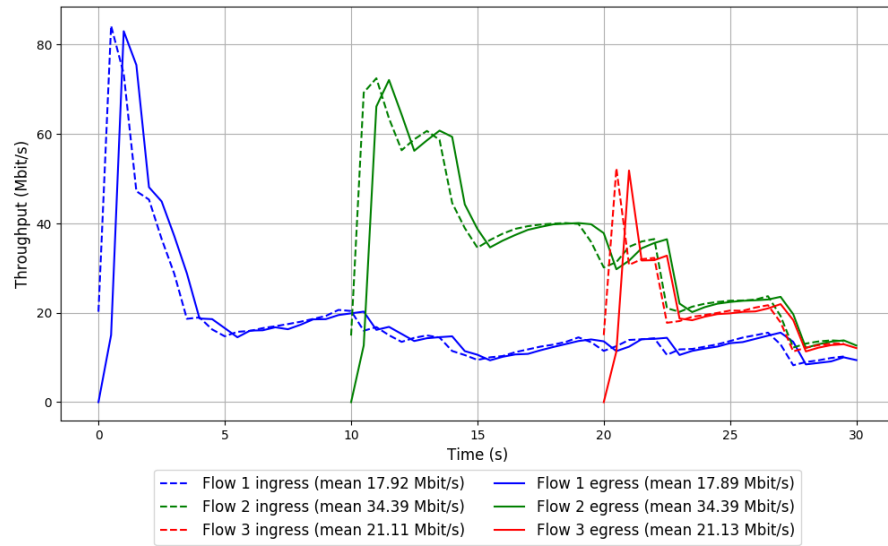
-- Flow 3:

Average throughput: 21.13 Mbit/s

95th percentile per-packet one-way delay: 53.784 ms

Loss rate: 0.62%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-07-10 21:55:12

End at: 2018-07-10 21:55:42

Local clock offset: 0.011 ms

Remote clock offset: 3.559 ms

Below is generated by plot.py at 2018-07-11 00:30:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 71.96 Mbit/s

95th percentile per-packet one-way delay: 41.763 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 40.11 Mbit/s

95th percentile per-packet one-way delay: 41.365 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 36.28 Mbit/s

95th percentile per-packet one-way delay: 44.039 ms

Loss rate: 0.28%

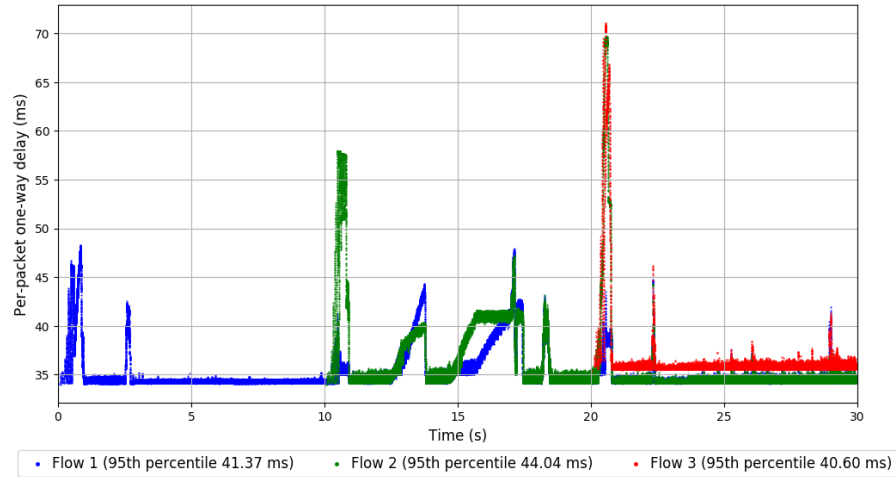
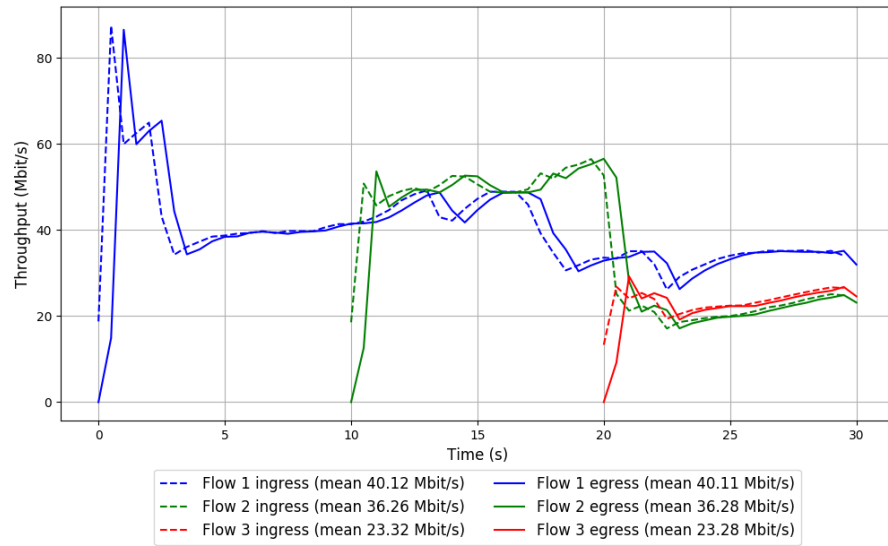
-- Flow 3:

Average throughput: 23.28 Mbit/s

95th percentile per-packet one-way delay: 40.600 ms

Loss rate: 0.88%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-07-10 22:19:12

End at: 2018-07-10 22:19:42

Local clock offset: -0.19 ms

Remote clock offset: 6.145 ms

Below is generated by plot.py at 2018-07-11 00:30:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.38 Mbit/s

95th percentile per-packet one-way delay: 41.592 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 43.57 Mbit/s

95th percentile per-packet one-way delay: 41.197 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 38.14 Mbit/s

95th percentile per-packet one-way delay: 41.804 ms

Loss rate: 0.30%

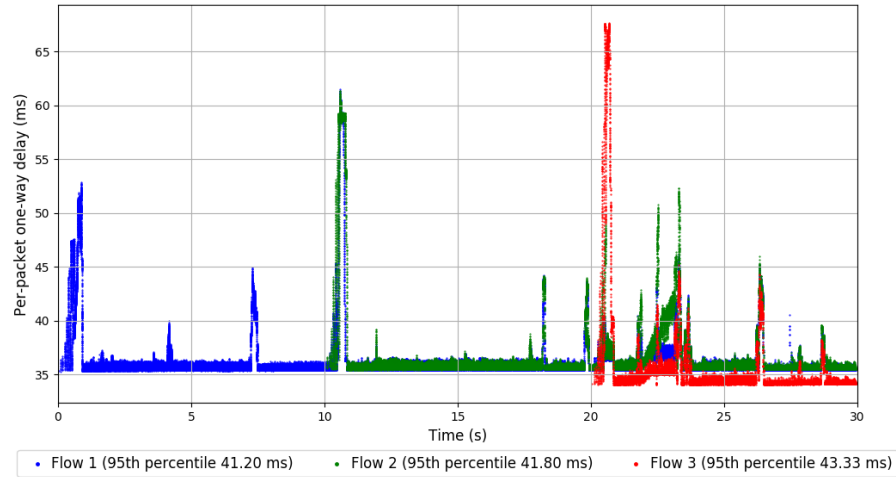
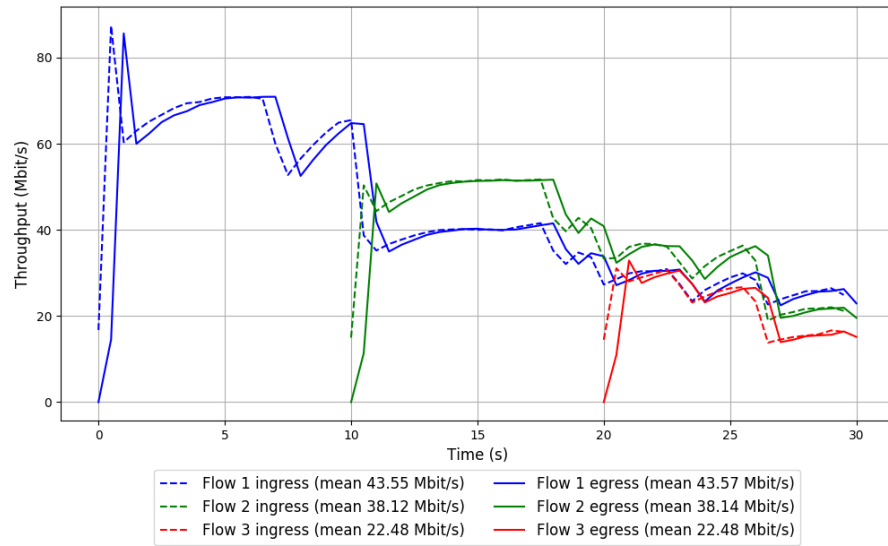
-- Flow 3:

Average throughput: 22.48 Mbit/s

95th percentile per-packet one-way delay: 43.334 ms

Loss rate: 0.65%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-07-10 22:43:41

End at: 2018-07-10 22:44:11

Local clock offset: -0.115 ms

Remote clock offset: 6.674 ms

Below is generated by plot.py at 2018-07-11 00:30:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 35.19 Mbit/s

95th percentile per-packet one-way delay: 42.030 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 19.42 Mbit/s

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

Loss rate: 0.48%

-- Flow 2:

Average throughput: 18.82 Mbit/s

95th percentile per-packet one-way delay: 44.669 ms

Loss rate: 0.73%

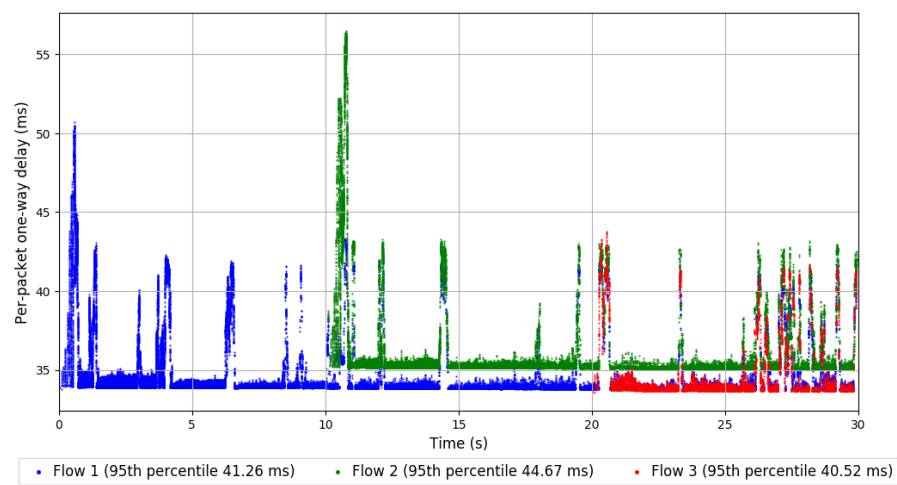
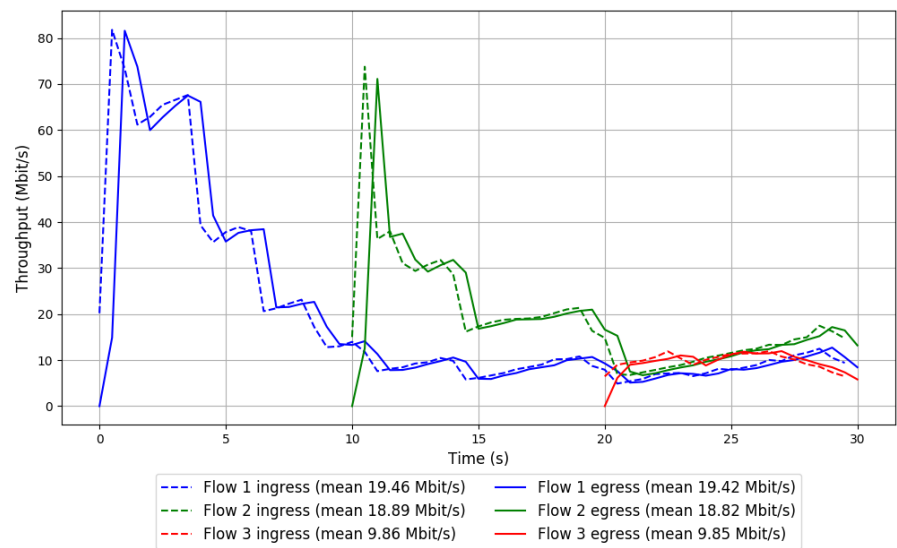
-- Flow 3:

Average throughput: 9.85 Mbit/s

95th percentile per-packet one-way delay: 40.517 ms

Loss rate: 0.78%

Run 7: Report of TCP Cubic — Data Link

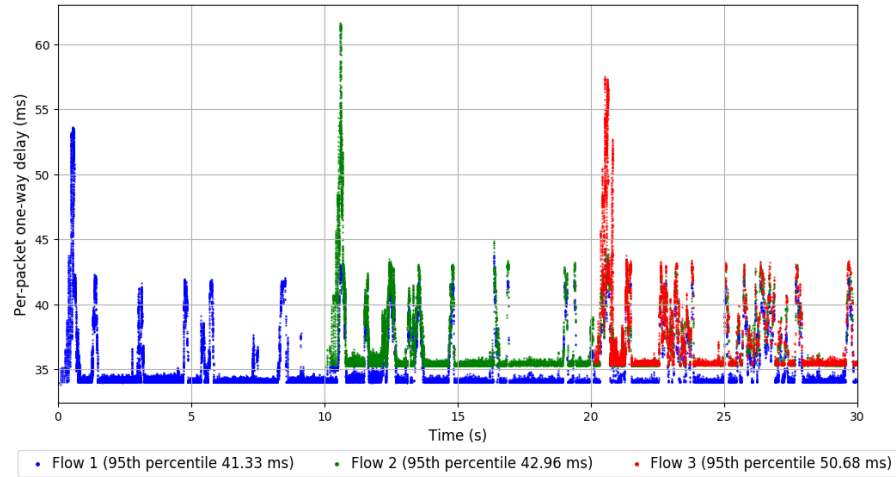
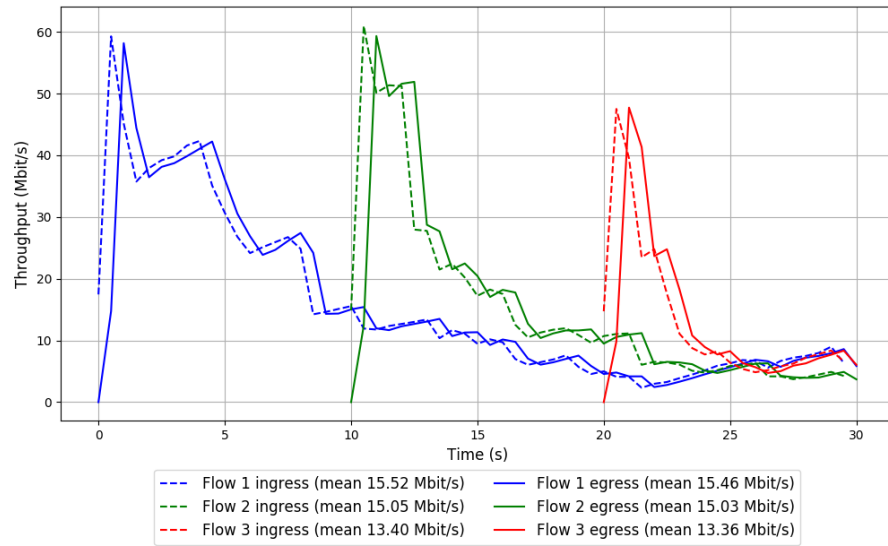


Run 8: Statistics of TCP Cubic

Start at: 2018-07-10 23:09:04
End at: 2018-07-10 23:09:34
Local clock offset: -0.457 ms
Remote clock offset: 2.13 ms

Below is generated by plot.py at 2018-07-11 00:30:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 29.87 Mbit/s
95th percentile per-packet one-way delay: 42.701 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 15.46 Mbit/s
95th percentile per-packet one-way delay: 41.332 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 15.03 Mbit/s
95th percentile per-packet one-way delay: 42.957 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 13.36 Mbit/s
95th percentile per-packet one-way delay: 50.679 ms
Loss rate: 1.01%

Run 8: Report of TCP Cubic — Data Link

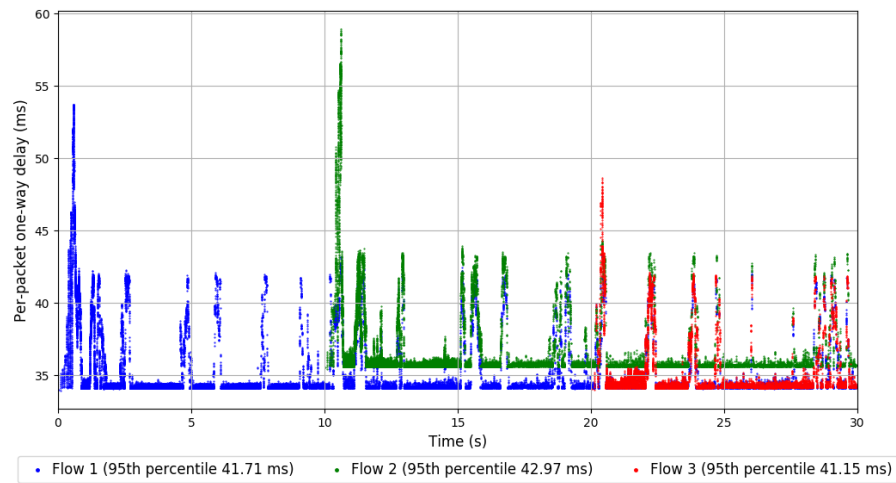
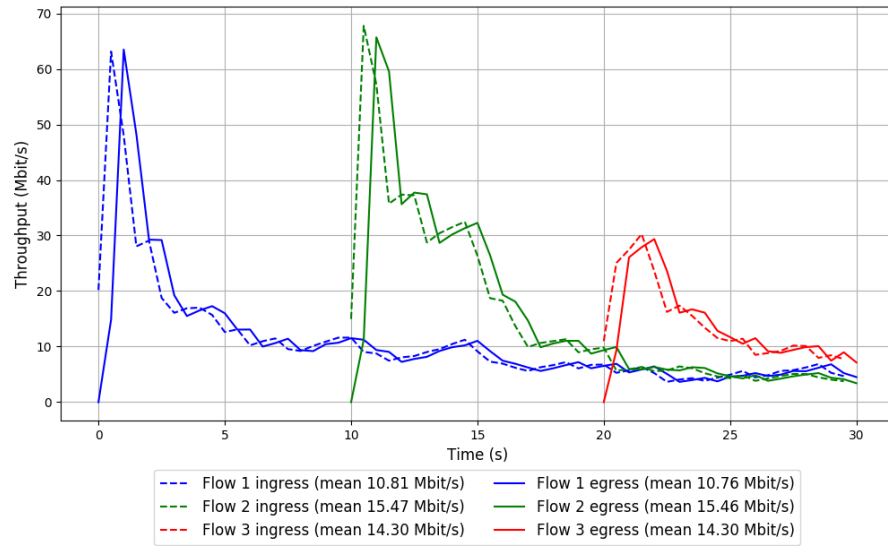


Run 9: Statistics of TCP Cubic

Start at: 2018-07-10 23:34:30
End at: 2018-07-10 23:35:00
Local clock offset: -0.971 ms
Remote clock offset: 1.625 ms

Below is generated by plot.py at 2018-07-11 00:30:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 25.77 Mbit/s
95th percentile per-packet one-way delay: 42.229 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 10.76 Mbit/s
95th percentile per-packet one-way delay: 41.714 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 15.46 Mbit/s
95th percentile per-packet one-way delay: 42.967 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 14.30 Mbit/s
95th percentile per-packet one-way delay: 41.154 ms
Loss rate: 0.72%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-07-11 00:00:46

End at: 2018-07-11 00:01:16

Local clock offset: -0.318 ms

Remote clock offset: 2.351 ms

Below is generated by plot.py at 2018-07-11 00:30:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 22.83 Mbit/s

95th percentile per-packet one-way delay: 42.533 ms

Loss rate: 1.05%

-- Flow 1:

Average throughput: 8.75 Mbit/s

95th percentile per-packet one-way delay: 41.698 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 11.72 Mbit/s

95th percentile per-packet one-way delay: 43.176 ms

Loss rate: 1.27%

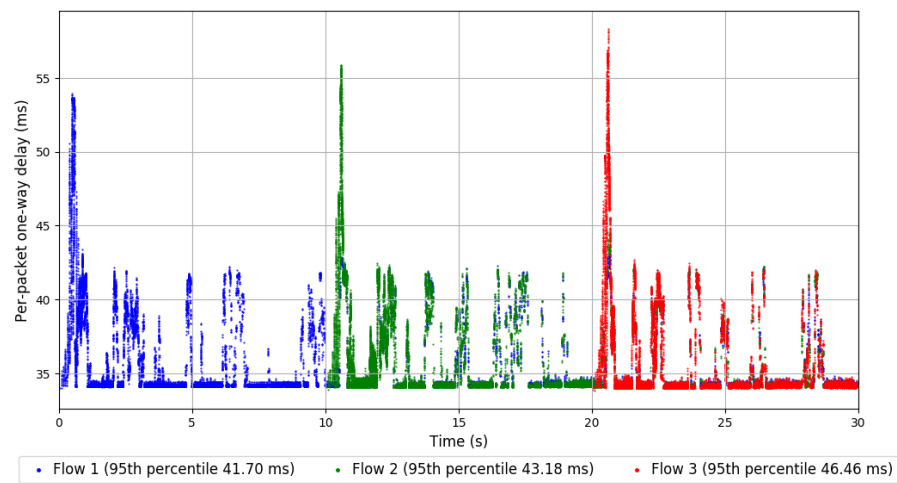
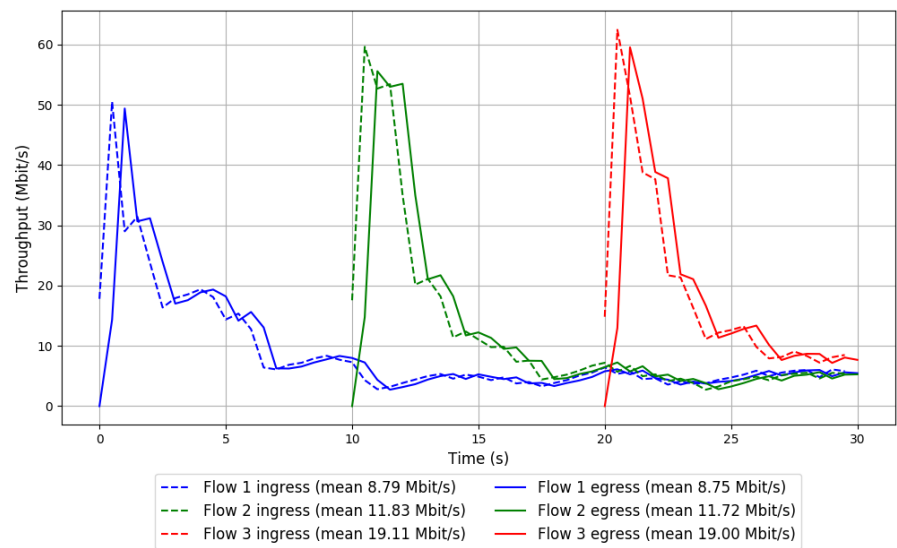
-- Flow 3:

Average throughput: 19.00 Mbit/s

95th percentile per-packet one-way delay: 46.456 ms

Loss rate: 1.31%

Run 10: Report of TCP Cubic — Data Link

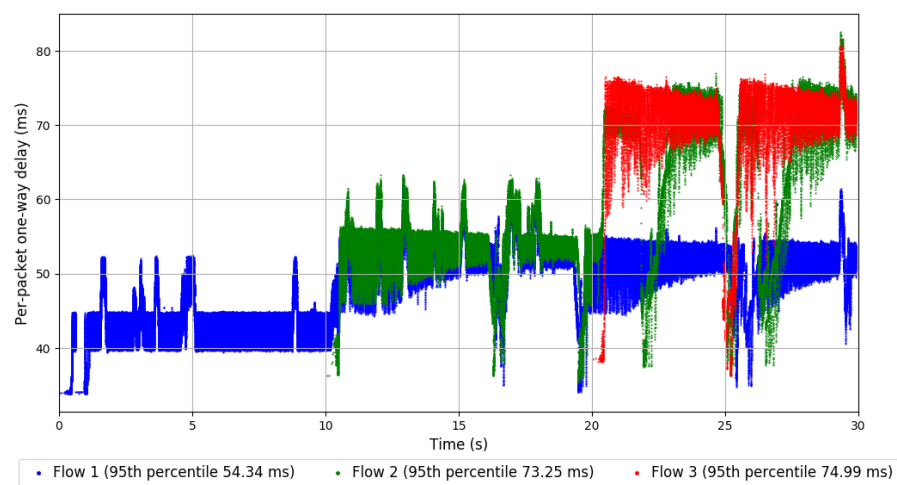
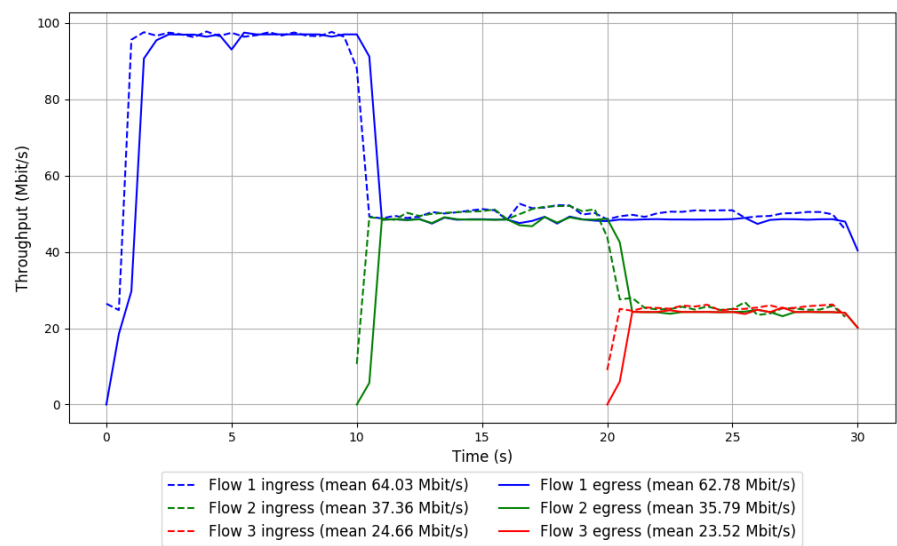


```
Run 1: Statistics of FillP

Start at: 2018-07-10 20:28:55
End at: 2018-07-10 20:29:25
Local clock offset: 0.243 ms
Remote clock offset: 2.987 ms

# Below is generated by plot.py at 2018-07-11 00:31:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.33 Mbit/s
95th percentile per-packet one-way delay: 72.368 ms
Loss rate: 3.10%
-- Flow 1:
Average throughput: 62.78 Mbit/s
95th percentile per-packet one-way delay: 54.341 ms
Loss rate: 2.21%
-- Flow 2:
Average throughput: 35.79 Mbit/s
95th percentile per-packet one-way delay: 73.249 ms
Loss rate: 4.64%
-- Flow 3:
Average throughput: 23.52 Mbit/s
95th percentile per-packet one-way delay: 74.990 ms
Loss rate: 5.34%
```

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-07-10 20:52:57

End at: 2018-07-10 20:53:27

Local clock offset: 0.109 ms

Remote clock offset: 3.464 ms

Below is generated by plot.py at 2018-07-11 00:31:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.73 Mbit/s

95th percentile per-packet one-way delay: 71.021 ms

Loss rate: 2.54%

-- Flow 1:

Average throughput: 56.97 Mbit/s

95th percentile per-packet one-way delay: 69.723 ms

Loss rate: 1.84%

-- Flow 2:

Average throughput: 36.73 Mbit/s

95th percentile per-packet one-way delay: 73.158 ms

Loss rate: 3.63%

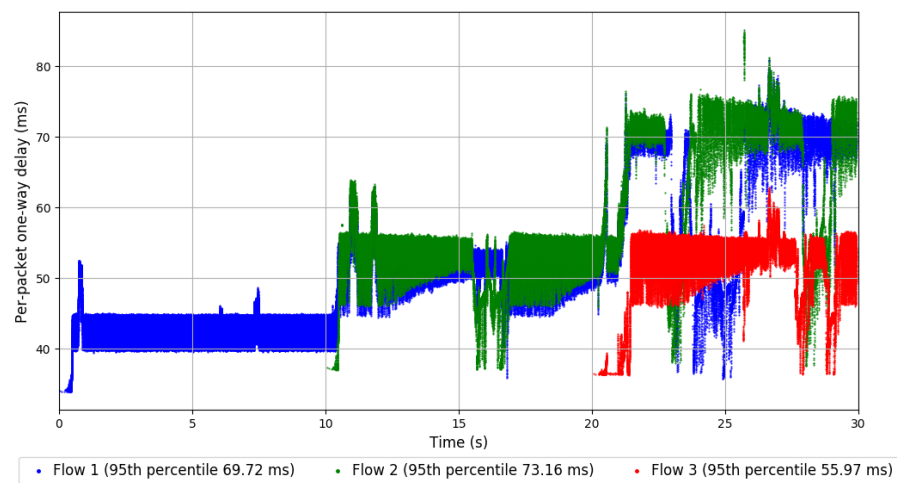
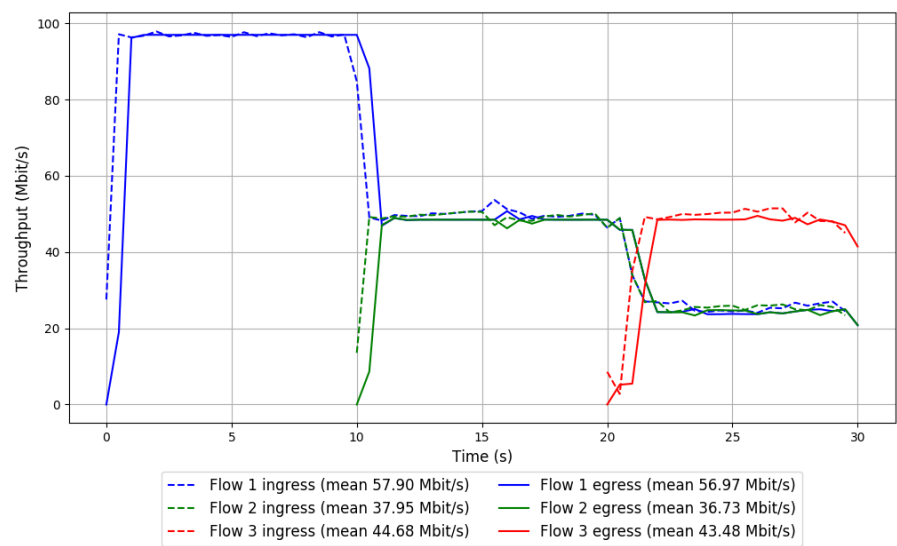
-- Flow 3:

Average throughput: 43.48 Mbit/s

95th percentile per-packet one-way delay: 55.968 ms

Loss rate: 3.44%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-07-10 21:16:52

End at: 2018-07-10 21:17:22

Local clock offset: 0.013 ms

Remote clock offset: 3.056 ms

Below is generated by plot.py at 2018-07-11 00:32:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.66 Mbit/s

95th percentile per-packet one-way delay: 71.409 ms

Loss rate: 2.64%

-- Flow 1:

Average throughput: 56.33 Mbit/s

95th percentile per-packet one-way delay: 71.643 ms

Loss rate: 1.82%

-- Flow 2:

Average throughput: 47.41 Mbit/s

95th percentile per-packet one-way delay: 56.021 ms

Loss rate: 3.32%

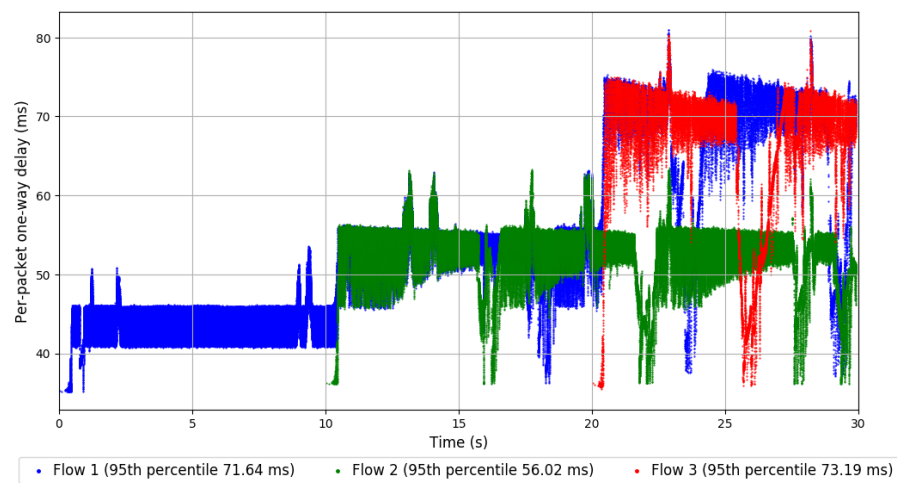
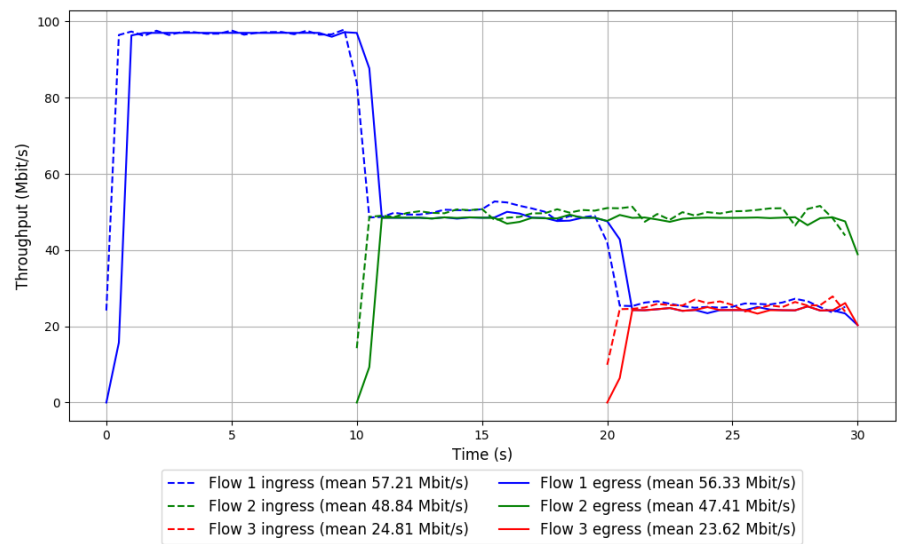
-- Flow 3:

Average throughput: 23.62 Mbit/s

95th percentile per-packet one-way delay: 73.187 ms

Loss rate: 5.68%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

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

End at: 2018-07-10 21:41:11

Local clock offset: 0.052 ms

Remote clock offset: 3.423 ms

Below is generated by plot.py at 2018-07-11 00:32:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.47 Mbit/s

95th percentile per-packet one-way delay: 65.182 ms

Loss rate: 2.90%

-- Flow 1:

Average throughput: 59.04 Mbit/s

95th percentile per-packet one-way delay: 64.162 ms

Loss rate: 2.07%

-- Flow 2:

Average throughput: 40.12 Mbit/s

95th percentile per-packet one-way delay: 65.423 ms

Loss rate: 3.92%

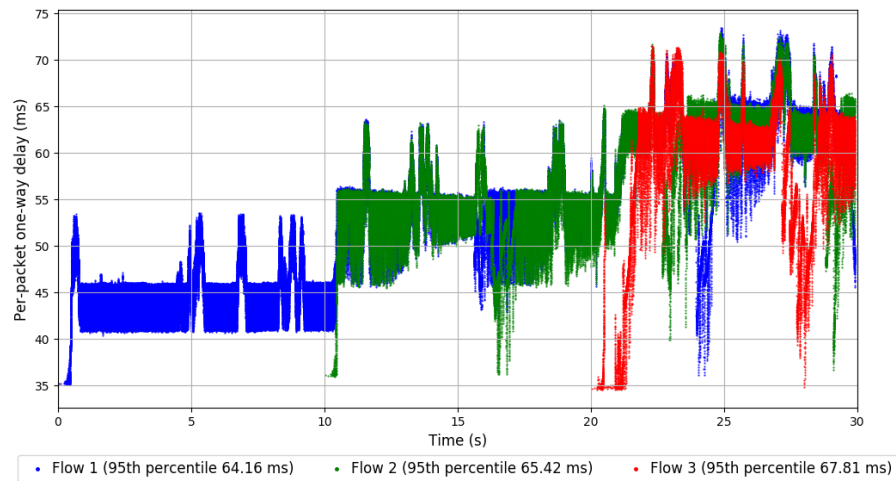
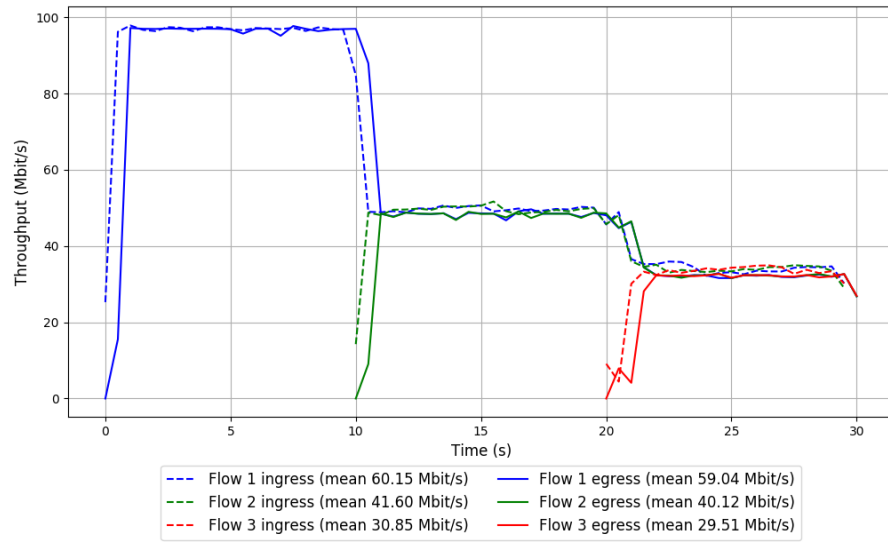
-- Flow 3:

Average throughput: 29.51 Mbit/s

95th percentile per-packet one-way delay: 67.814 ms

Loss rate: 5.02%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-07-10 22:05:28

End at: 2018-07-10 22:05:58

Local clock offset: -0.1 ms

Remote clock offset: 3.86 ms

Below is generated by plot.py at 2018-07-11 00:32:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.67 Mbit/s

95th percentile per-packet one-way delay: 71.425 ms

Loss rate: 2.34%

-- Flow 1:

Average throughput: 56.27 Mbit/s

95th percentile per-packet one-way delay: 70.148 ms

Loss rate: 1.41%

-- Flow 2:

Average throughput: 36.04 Mbit/s

95th percentile per-packet one-way delay: 73.132 ms

Loss rate: 3.99%

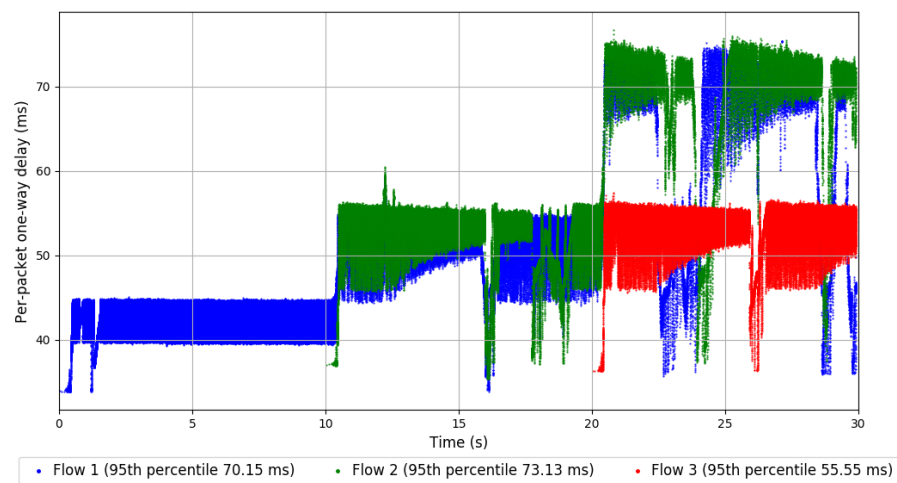
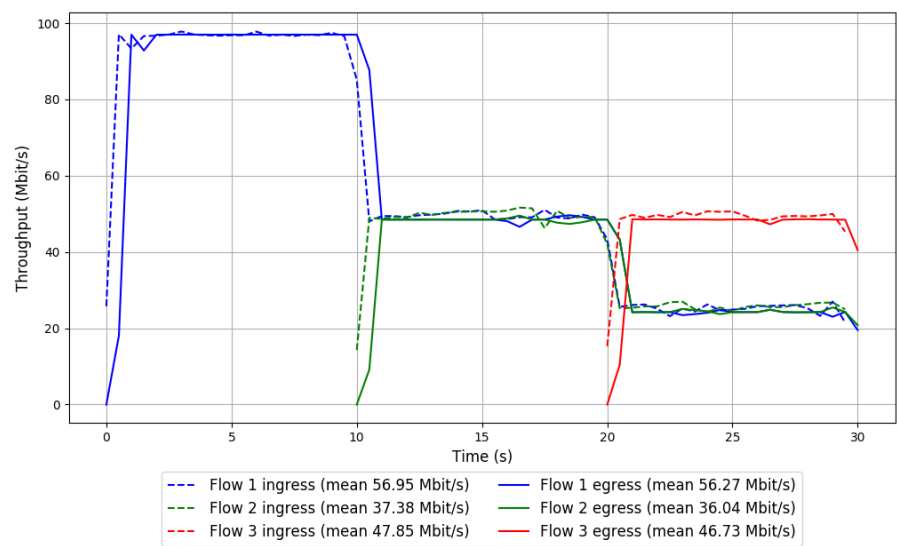
-- Flow 3:

Average throughput: 46.73 Mbit/s

95th percentile per-packet one-way delay: 55.554 ms

Loss rate: 3.11%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-07-10 22:29:32

End at: 2018-07-10 22:30:02

Local clock offset: -0.189 ms

Remote clock offset: 7.045 ms

Below is generated by plot.py at 2018-07-11 00:32:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.15 Mbit/s

95th percentile per-packet one-way delay: 70.978 ms

Loss rate: 3.12%

-- Flow 1:

Average throughput: 54.87 Mbit/s

95th percentile per-packet one-way delay: 70.436 ms

Loss rate: 2.18%

-- Flow 2:

Average throughput: 35.99 Mbit/s

95th percentile per-packet one-way delay: 72.731 ms

Loss rate: 4.67%

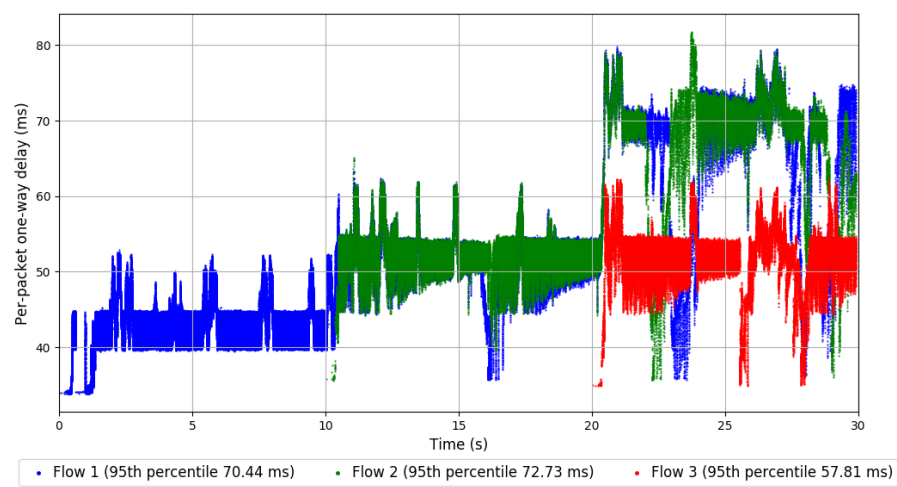
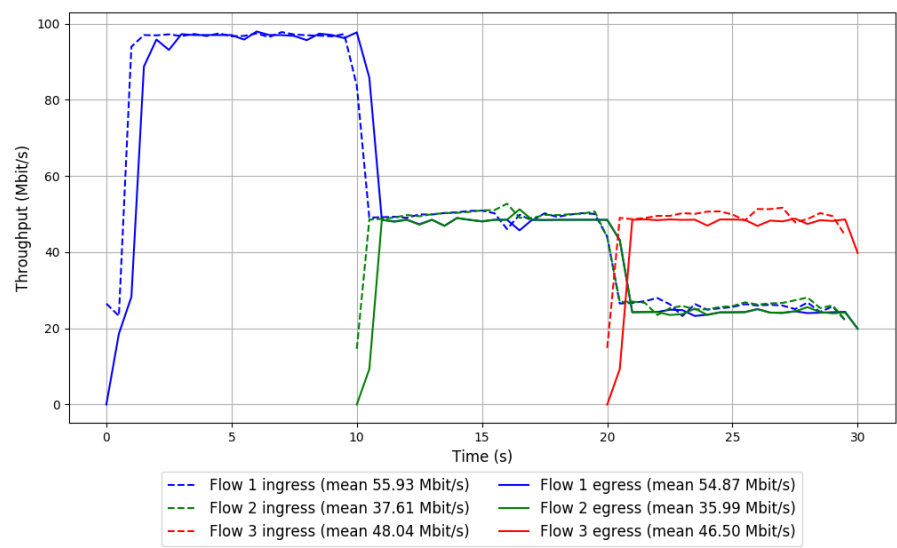
-- Flow 3:

Average throughput: 46.50 Mbit/s

95th percentile per-packet one-way delay: 57.814 ms

Loss rate: 3.96%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-07-10 22:54:24

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

Local clock offset: -0.147 ms

Remote clock offset: 3.482 ms

Below is generated by plot.py at 2018-07-11 00:32:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.82 Mbit/s

95th percentile per-packet one-way delay: 76.277 ms

Loss rate: 4.03%

-- Flow 1:

Average throughput: 55.76 Mbit/s

95th percentile per-packet one-way delay: 75.305 ms

Loss rate: 2.99%

-- Flow 2:

Average throughput: 35.79 Mbit/s

95th percentile per-packet one-way delay: 78.562 ms

Loss rate: 5.35%

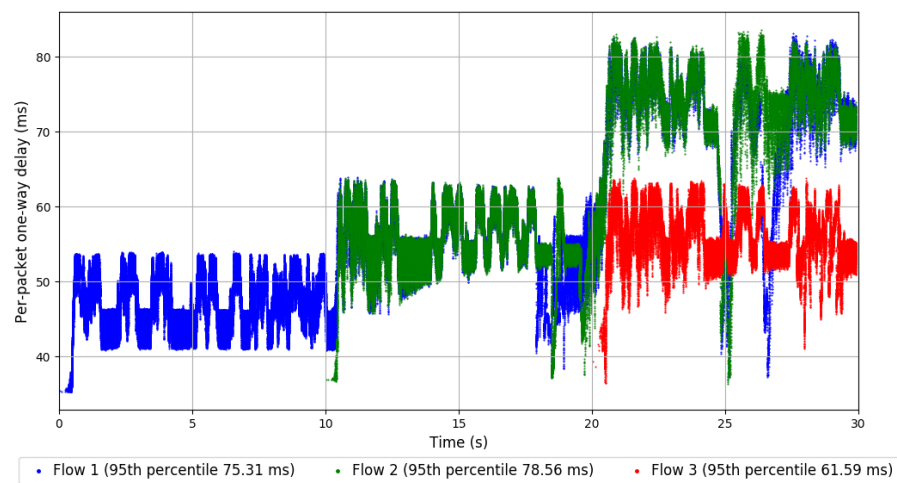
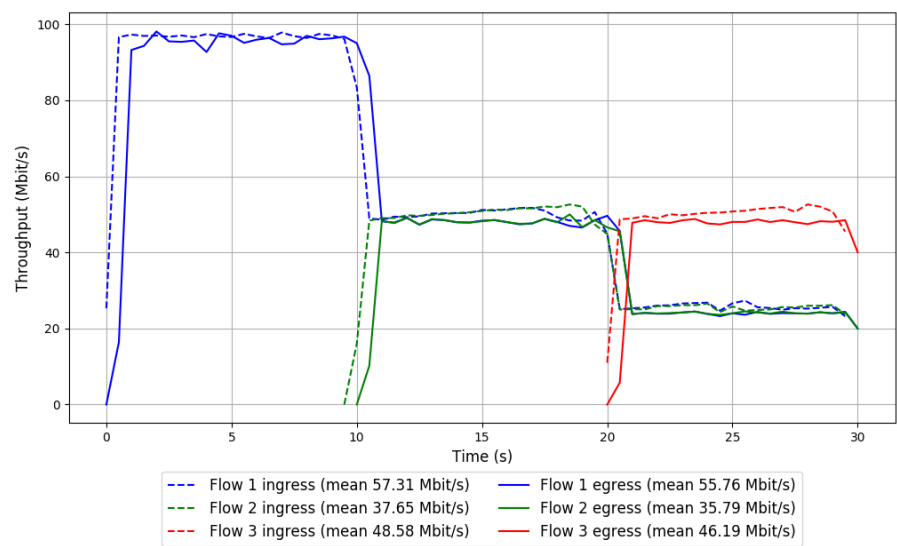
-- Flow 3:

Average throughput: 46.19 Mbit/s

95th percentile per-packet one-way delay: 61.594 ms

Loss rate: 5.69%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-07-10 23:19:49

End at: 2018-07-10 23:20:19

Local clock offset: -0.634 ms

Remote clock offset: 1.811 ms

Below is generated by plot.py at 2018-07-11 00:32:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.83 Mbit/s

95th percentile per-packet one-way delay: 68.757 ms

Loss rate: 4.32%

-- Flow 1:

Average throughput: 58.37 Mbit/s

95th percentile per-packet one-way delay: 66.063 ms

Loss rate: 3.58%

-- Flow 2:

Average throughput: 39.44 Mbit/s

95th percentile per-packet one-way delay: 69.524 ms

Loss rate: 5.25%

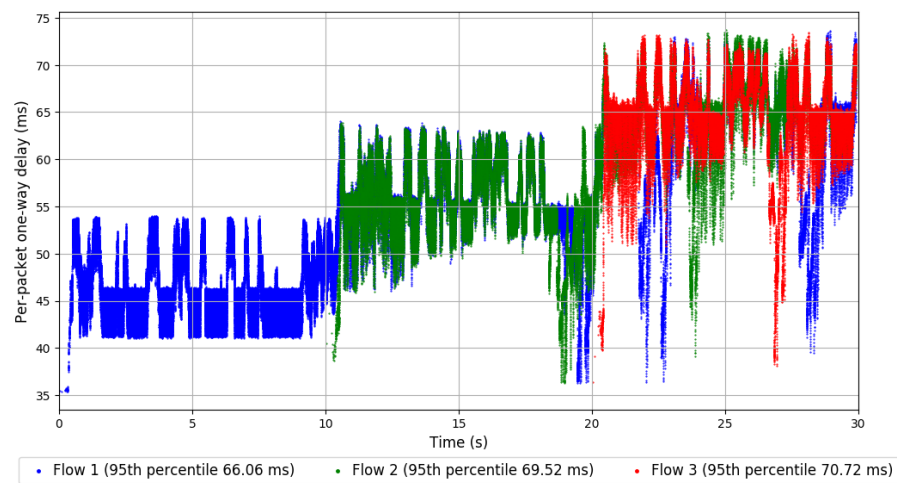
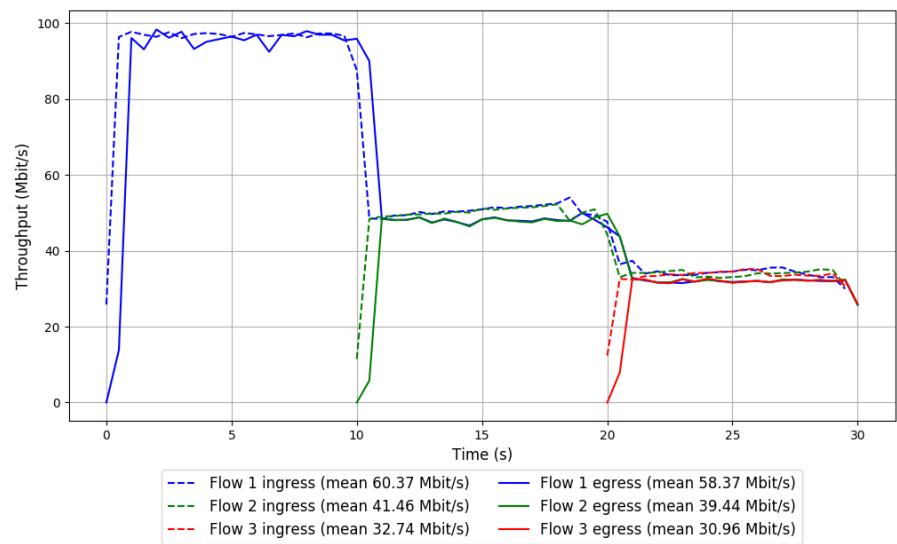
-- Flow 3:

Average throughput: 30.96 Mbit/s

95th percentile per-packet one-way delay: 70.715 ms

Loss rate: 6.09%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-07-10 23:46:13

End at: 2018-07-10 23:46:43

Local clock offset: -0.843 ms

Remote clock offset: 1.447 ms

Below is generated by plot.py at 2018-07-11 00:33:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.00 Mbit/s

95th percentile per-packet one-way delay: 65.477 ms

Loss rate: 3.62%

-- Flow 1:

Average throughput: 58.49 Mbit/s

95th percentile per-packet one-way delay: 63.723 ms

Loss rate: 2.54%

-- Flow 2:

Average throughput: 37.98 Mbit/s

95th percentile per-packet one-way delay: 65.691 ms

Loss rate: 5.12%

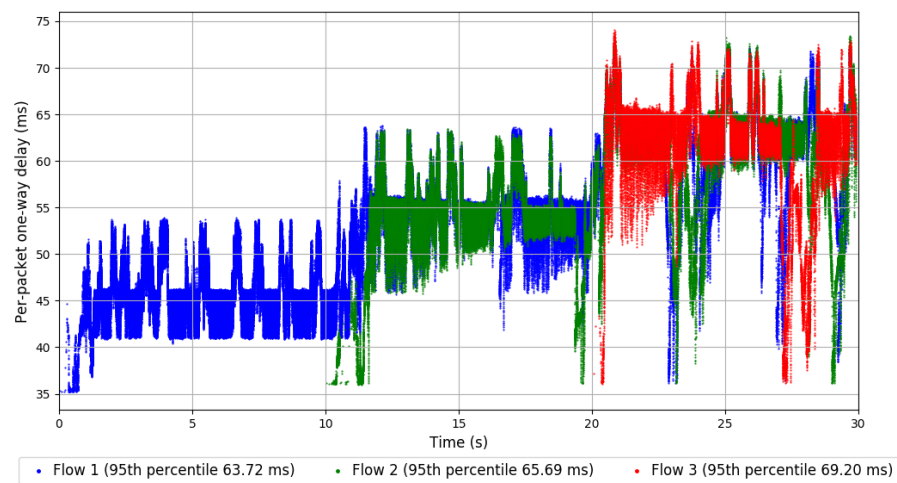
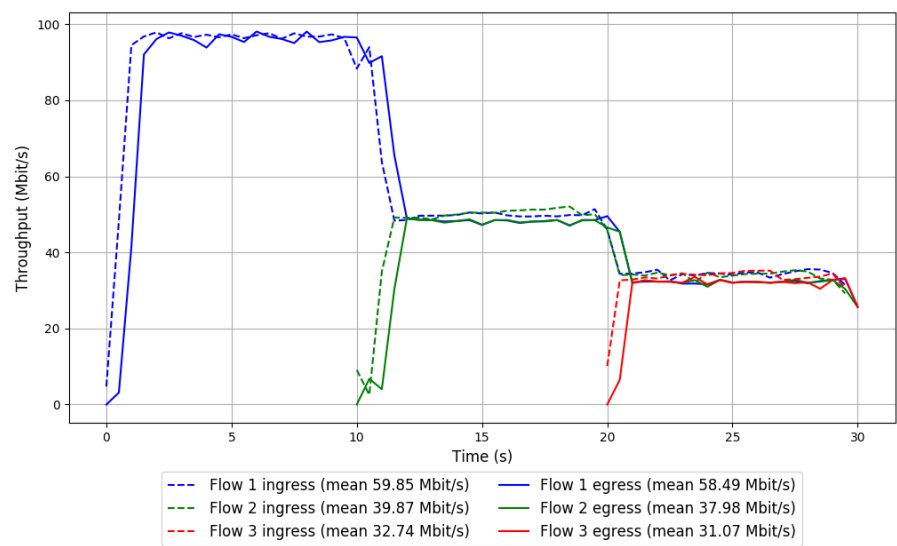
-- Flow 3:

Average throughput: 31.07 Mbit/s

95th percentile per-packet one-way delay: 69.197 ms

Loss rate: 5.89%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

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

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

Local clock offset: 0.016 ms

Remote clock offset: 2.724 ms

Below is generated by plot.py at 2018-07-11 00:33:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.70 Mbit/s

95th percentile per-packet one-way delay: 68.997 ms

Loss rate: 3.90%

-- Flow 1:

Average throughput: 58.58 Mbit/s

95th percentile per-packet one-way delay: 66.866 ms

Loss rate: 3.01%

-- Flow 2:

Average throughput: 38.98 Mbit/s

95th percentile per-packet one-way delay: 70.071 ms

Loss rate: 5.05%

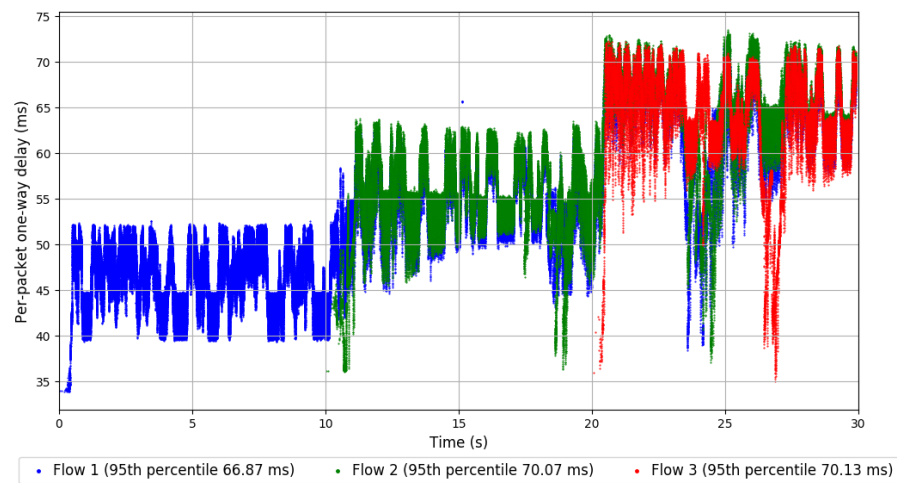
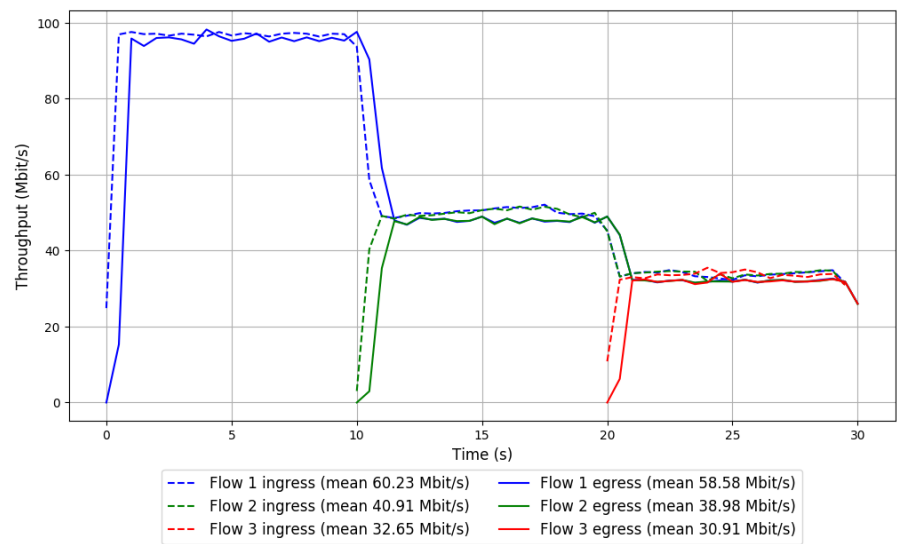
-- Flow 3:

Average throughput: 30.91 Mbit/s

95th percentile per-packet one-way delay: 70.130 ms

Loss rate: 5.98%

Run 10: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2018-07-10 20:35:41

End at: 2018-07-10 20:36:11

Local clock offset: 0.079 ms

Remote clock offset: 3.004 ms

Below is generated by plot.py at 2018-07-11 00:33:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.26 Mbit/s

95th percentile per-packet one-way delay: 71.324 ms

Loss rate: 3.84%

-- Flow 1:

Average throughput: 63.48 Mbit/s

95th percentile per-packet one-way delay: 55.586 ms

Loss rate: 2.67%

-- Flow 2:

Average throughput: 36.06 Mbit/s

95th percentile per-packet one-way delay: 72.920 ms

Loss rate: 6.39%

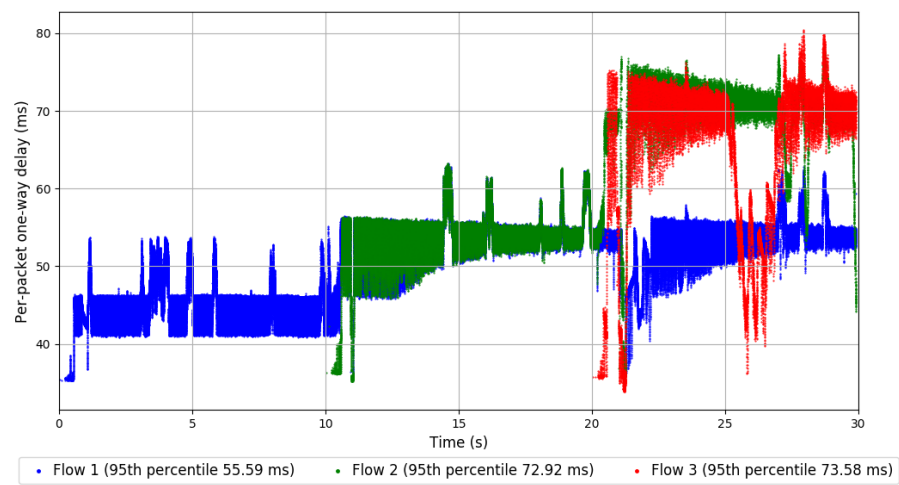
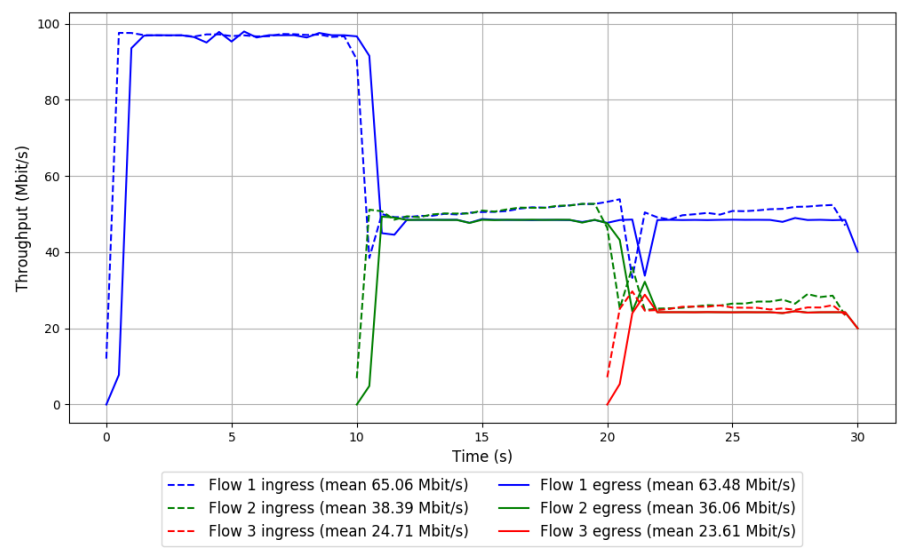
-- Flow 3:

Average throughput: 23.61 Mbit/s

95th percentile per-packet one-way delay: 73.575 ms

Loss rate: 5.22%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-07-10 20:59:49

End at: 2018-07-10 21:00:19

Local clock offset: 0.125 ms

Remote clock offset: 3.595 ms

Below is generated by plot.py at 2018-07-11 00:33:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.08 Mbit/s

95th percentile per-packet one-way delay: 65.198 ms

Loss rate: 4.77%

-- Flow 1:

Average throughput: 58.40 Mbit/s

95th percentile per-packet one-way delay: 63.650 ms

Loss rate: 3.08%

-- Flow 2:

Average throughput: 39.63 Mbit/s

95th percentile per-packet one-way delay: 66.861 ms

Loss rate: 7.11%

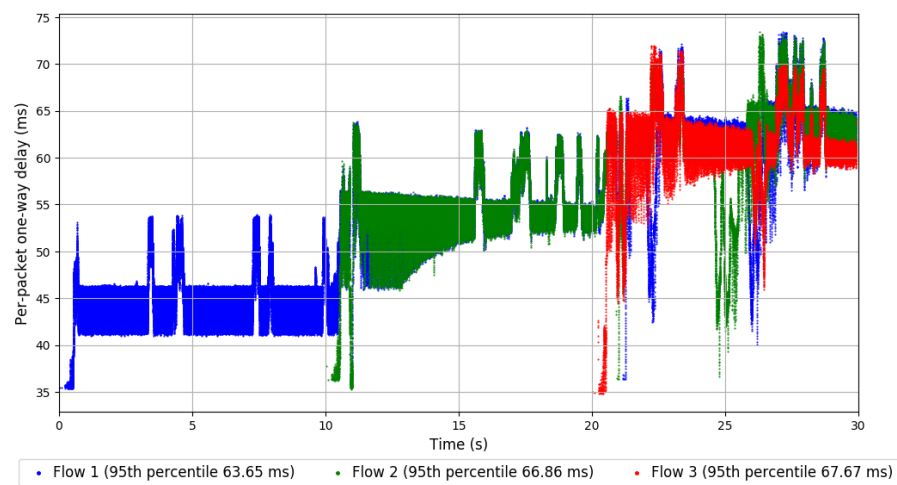
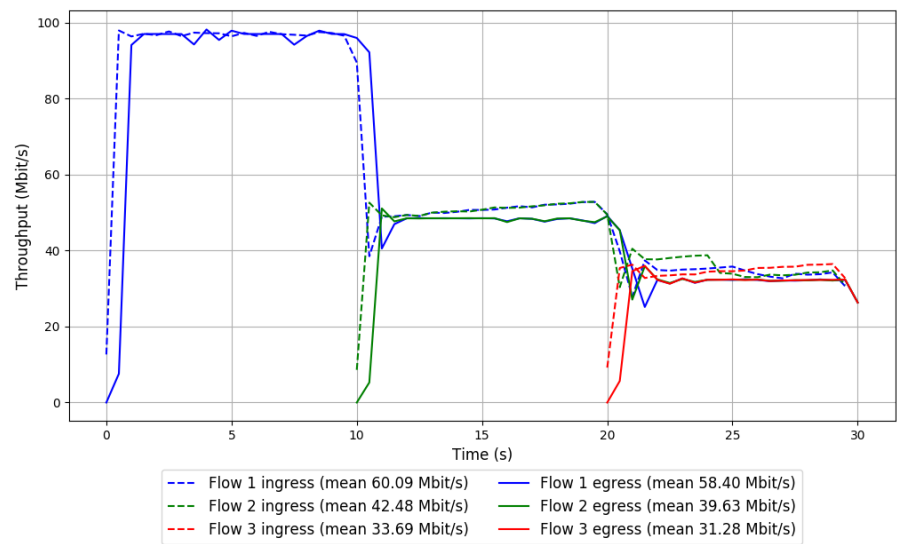
-- Flow 3:

Average throughput: 31.28 Mbit/s

95th percentile per-packet one-way delay: 67.674 ms

Loss rate: 7.90%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

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

End at: 2018-07-10 21:24:05

Local clock offset: 0.128 ms

Remote clock offset: 3.037 ms

Below is generated by plot.py at 2018-07-11 00:33:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.25 Mbit/s

95th percentile per-packet one-way delay: 71.338 ms

Loss rate: 4.35%

-- Flow 1:

Average throughput: 55.94 Mbit/s

95th percentile per-packet one-way delay: 70.782 ms

Loss rate: 3.02%

-- Flow 2:

Average throughput: 36.09 Mbit/s

95th percentile per-packet one-way delay: 73.738 ms

Loss rate: 6.62%

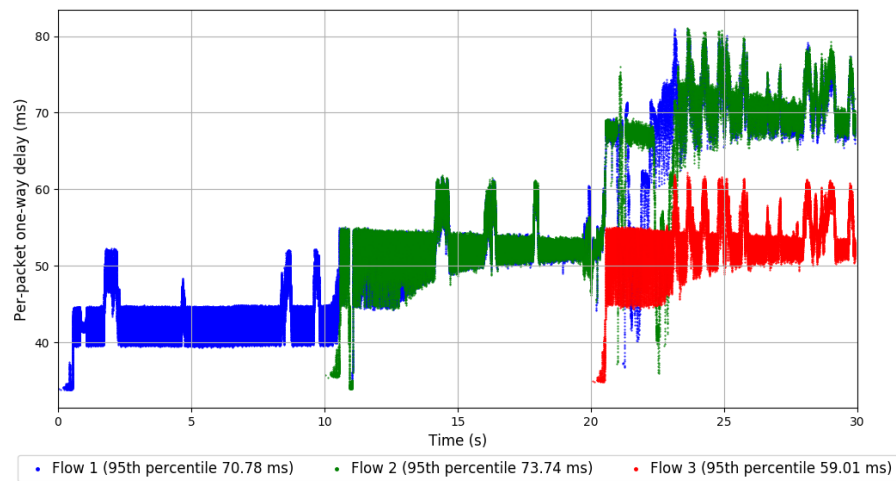
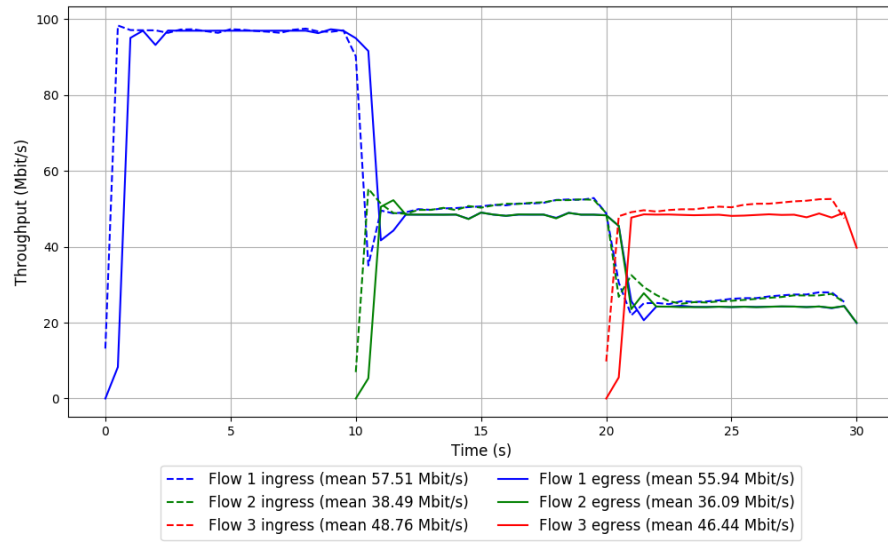
-- Flow 3:

Average throughput: 46.44 Mbit/s

95th percentile per-packet one-way delay: 59.010 ms

Loss rate: 5.49%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2018-07-10 21:47:37

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

Local clock offset: 0.072 ms

Remote clock offset: 3.496 ms

Below is generated by plot.py at 2018-07-11 00:33:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.08 Mbit/s

95th percentile per-packet one-way delay: 64.836 ms

Loss rate: 4.69%

-- Flow 1:

Average throughput: 58.31 Mbit/s

95th percentile per-packet one-way delay: 62.031 ms

Loss rate: 3.40%

-- Flow 2:

Average throughput: 39.77 Mbit/s

95th percentile per-packet one-way delay: 64.443 ms

Loss rate: 6.59%

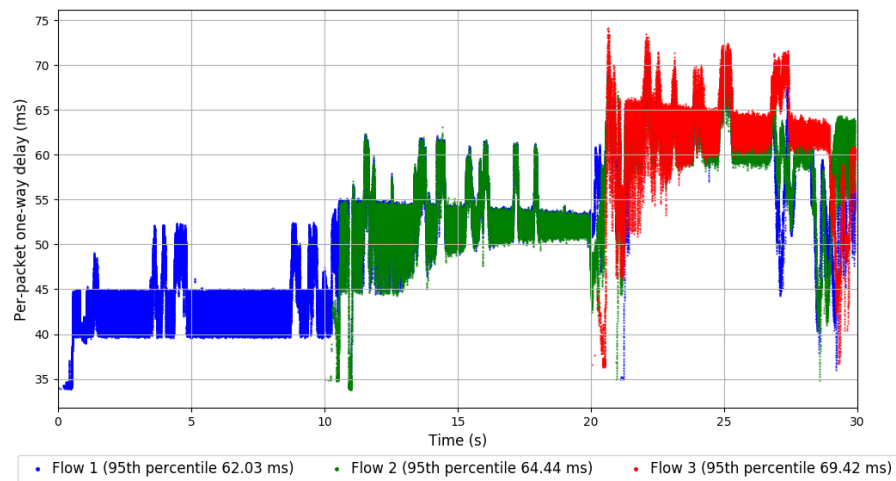
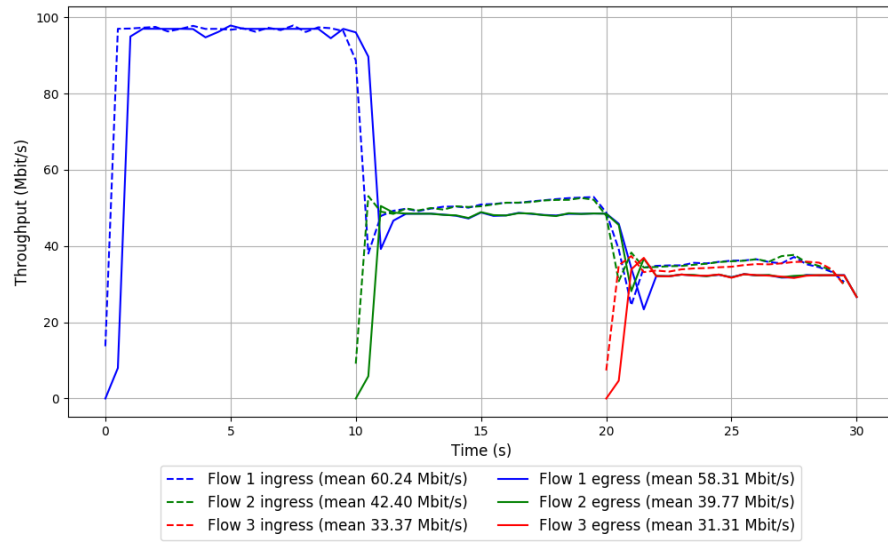
-- Flow 3:

Average throughput: 31.31 Mbit/s

95th percentile per-packet one-way delay: 69.421 ms

Loss rate: 6.85%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2018-07-10 22:12:16

End at: 2018-07-10 22:12:46

Local clock offset: -0.103 ms

Remote clock offset: 5.055 ms

Below is generated by plot.py at 2018-07-11 00:33:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.37 Mbit/s

95th percentile per-packet one-way delay: 71.365 ms

Loss rate: 3.44%

-- Flow 1:

Average throughput: 56.47 Mbit/s

95th percentile per-packet one-way delay: 71.632 ms

Loss rate: 2.35%

-- Flow 2:

Average throughput: 47.00 Mbit/s

95th percentile per-packet one-way delay: 54.197 ms

Loss rate: 4.67%

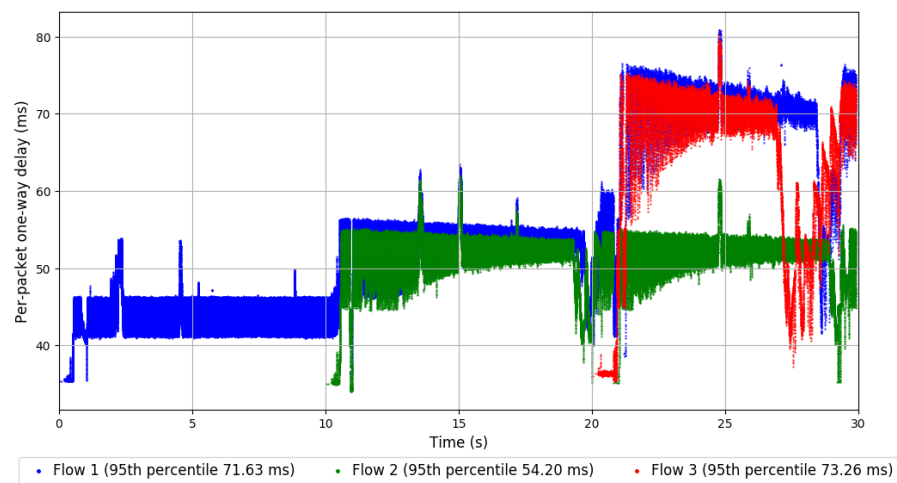
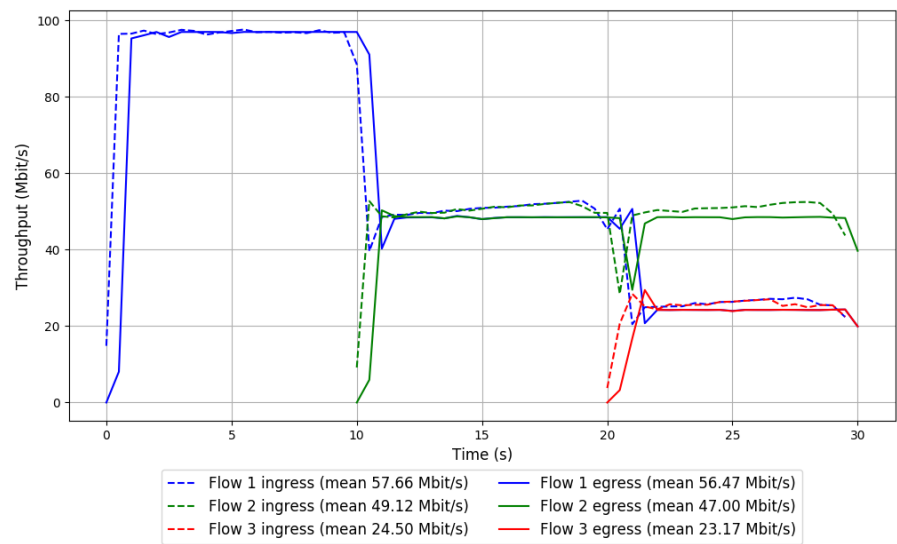
-- Flow 3:

Average throughput: 23.17 Mbit/s

95th percentile per-packet one-way delay: 73.264 ms

Loss rate: 6.21%

Run 5: Report of FillP-Sheep — Data Link



Run 6: Statistics of FillP-Sheep

Start at: 2018-07-10 22:36:18

End at: 2018-07-10 22:36:48

Local clock offset: -0.072 ms

Remote clock offset: 7.482 ms

Below is generated by plot.py at 2018-07-11 00:33:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.57 Mbit/s

95th percentile per-packet one-way delay: 67.362 ms

Loss rate: 5.46%

-- Flow 1:

Average throughput: 58.04 Mbit/s

95th percentile per-packet one-way delay: 65.431 ms

Loss rate: 3.48%

-- Flow 2:

Average throughput: 39.55 Mbit/s

95th percentile per-packet one-way delay: 66.167 ms

Loss rate: 8.52%

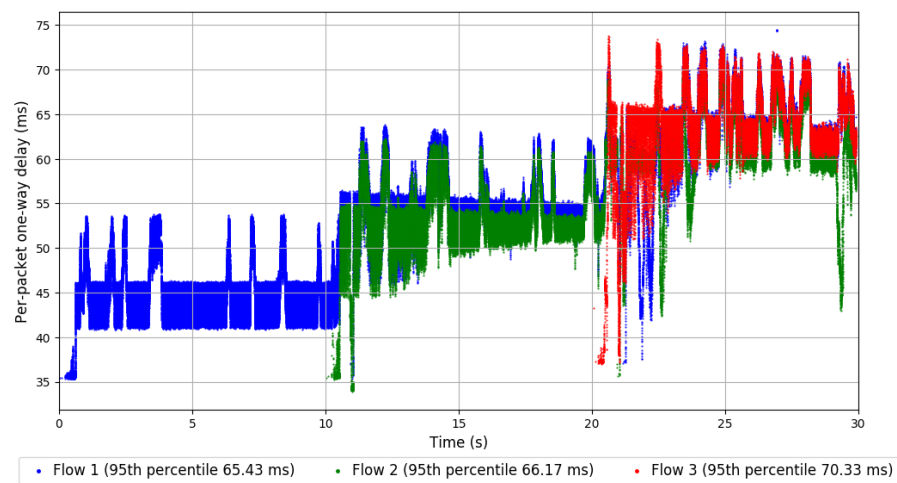
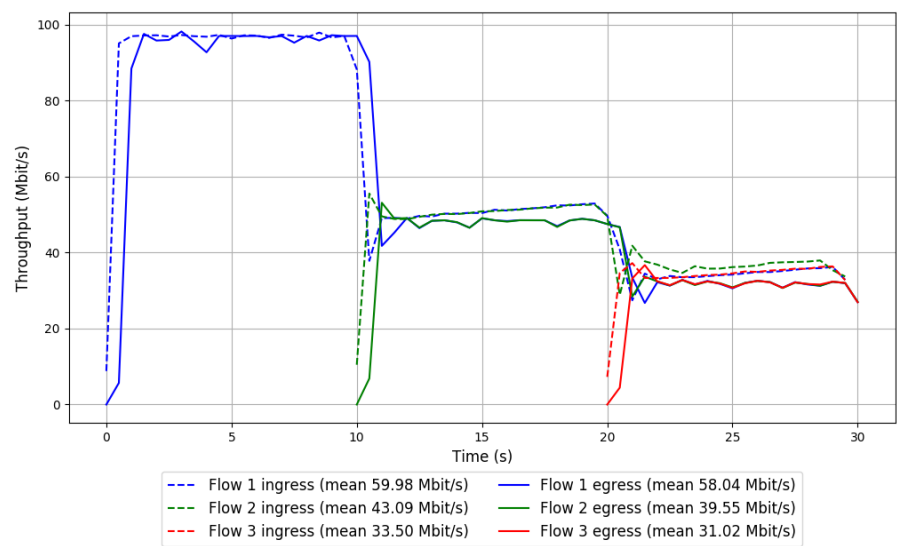
-- Flow 3:

Average throughput: 31.02 Mbit/s

95th percentile per-packet one-way delay: 70.325 ms

Loss rate: 8.25%

Run 6: Report of FillP-Sheep — Data Link



Run 7: Statistics of FillP-Sheep

Start at: 2018-07-10 23:01:33

End at: 2018-07-10 23:02:03

Local clock offset: -0.227 ms

Remote clock offset: 2.707 ms

Below is generated by plot.py at 2018-07-11 00:34:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.00 Mbit/s

95th percentile per-packet one-way delay: 66.259 ms

Loss rate: 5.42%

-- Flow 1:

Average throughput: 58.26 Mbit/s

95th percentile per-packet one-way delay: 64.328 ms

Loss rate: 3.78%

-- Flow 2:

Average throughput: 39.70 Mbit/s

95th percentile per-packet one-way delay: 66.211 ms

Loss rate: 8.06%

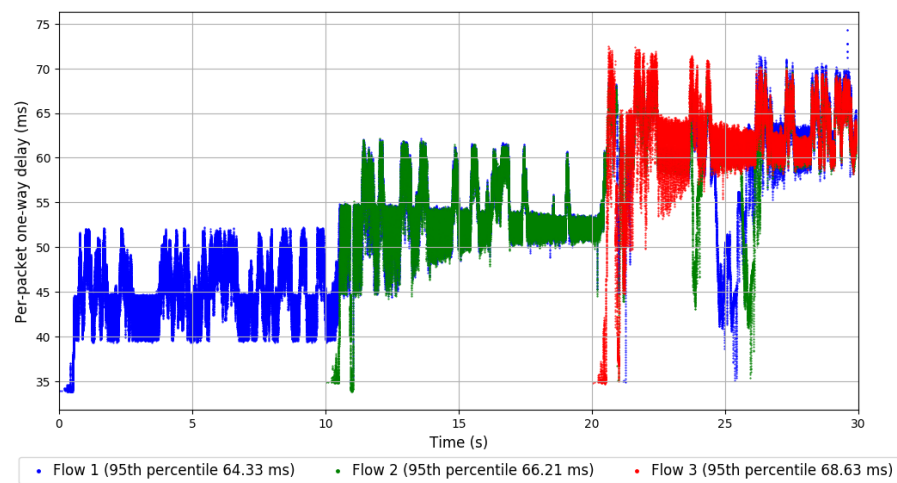
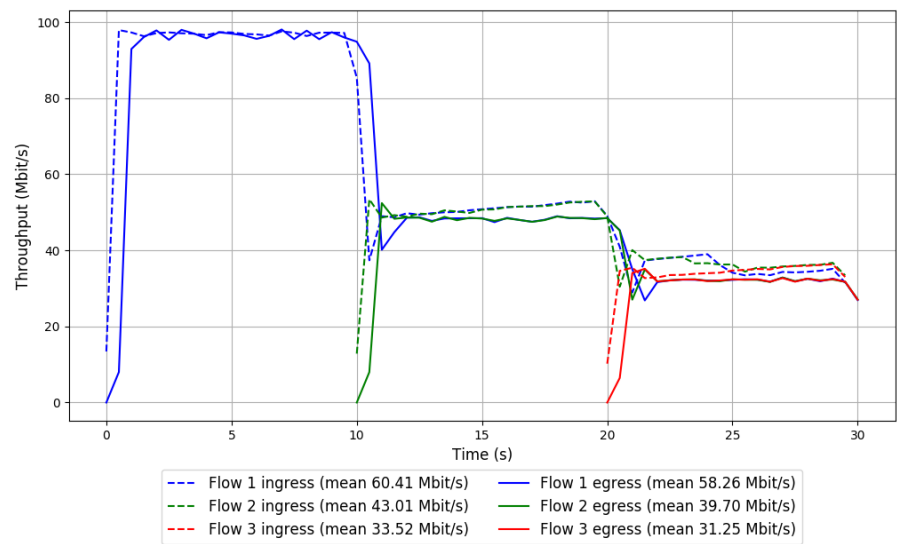
-- Flow 3:

Average throughput: 31.25 Mbit/s

95th percentile per-packet one-way delay: 68.631 ms

Loss rate: 7.52%

Run 7: Report of FillP-Sheep — Data Link



Run 8: Statistics of FillP-Sheep

Start at: 2018-07-10 23:26:58

End at: 2018-07-10 23:27:28

Local clock offset: -0.813 ms

Remote clock offset: 1.827 ms

Below is generated by plot.py at 2018-07-11 00:34:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.41 Mbit/s

95th percentile per-packet one-way delay: 74.724 ms

Loss rate: 6.76%

-- Flow 1:

Average throughput: 62.85 Mbit/s

95th percentile per-packet one-way delay: 58.709 ms

Loss rate: 5.53%

-- Flow 2:

Average throughput: 35.79 Mbit/s

95th percentile per-packet one-way delay: 75.700 ms

Loss rate: 8.74%

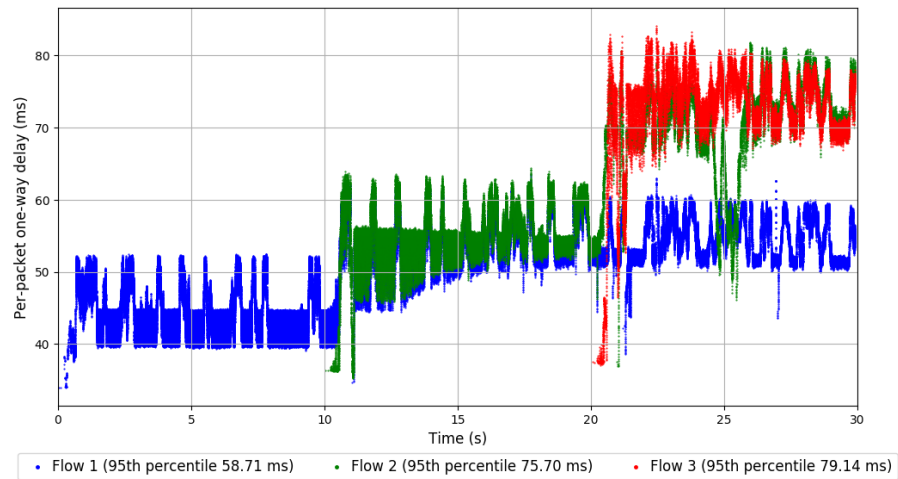
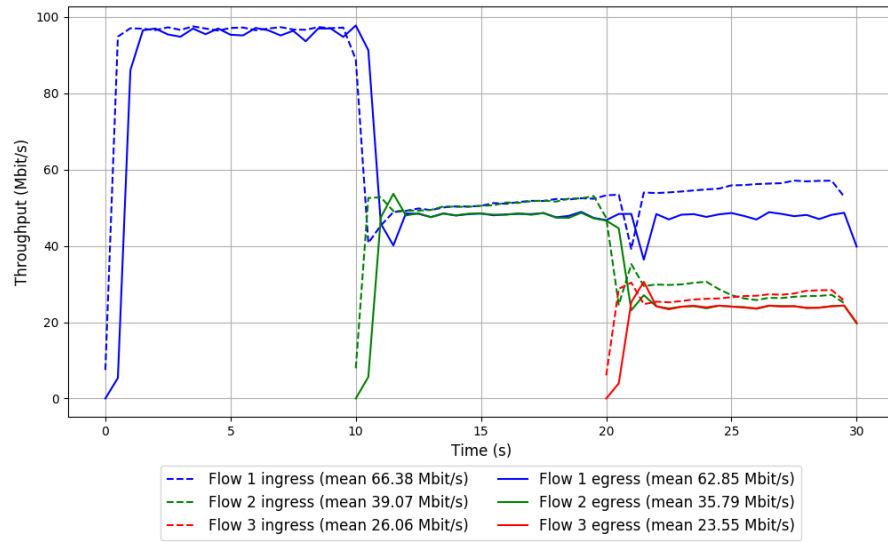
-- Flow 3:

Average throughput: 23.55 Mbit/s

95th percentile per-packet one-way delay: 79.135 ms

Loss rate: 10.29%

Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

Start at: 2018-07-10 23:53:22

End at: 2018-07-10 23:53:52

Local clock offset: -0.62 ms

Remote clock offset: 1.719 ms

Below is generated by plot.py at 2018-07-11 00:34:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.89 Mbit/s

95th percentile per-packet one-way delay: 70.367 ms

Loss rate: 4.90%

-- Flow 1:

Average throughput: 55.83 Mbit/s

95th percentile per-packet one-way delay: 68.999 ms

Loss rate: 3.92%

-- Flow 2:

Average throughput: 46.95 Mbit/s

95th percentile per-packet one-way delay: 59.577 ms

Loss rate: 5.79%

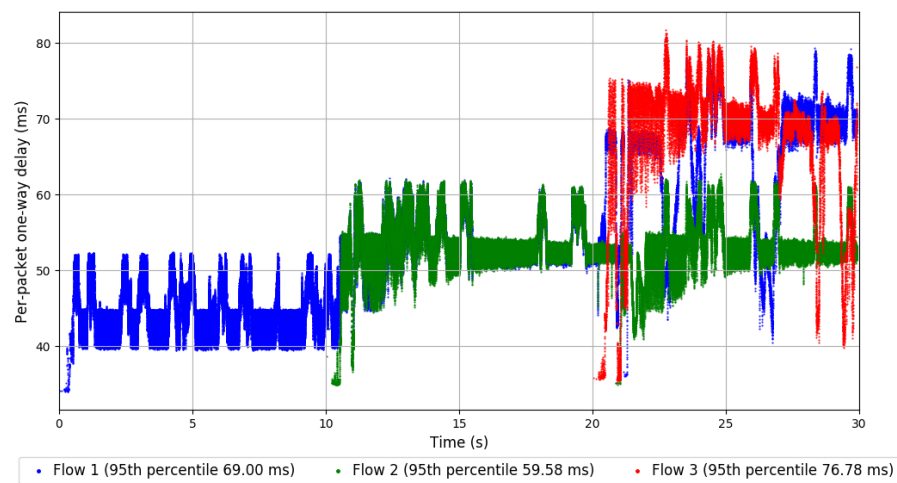
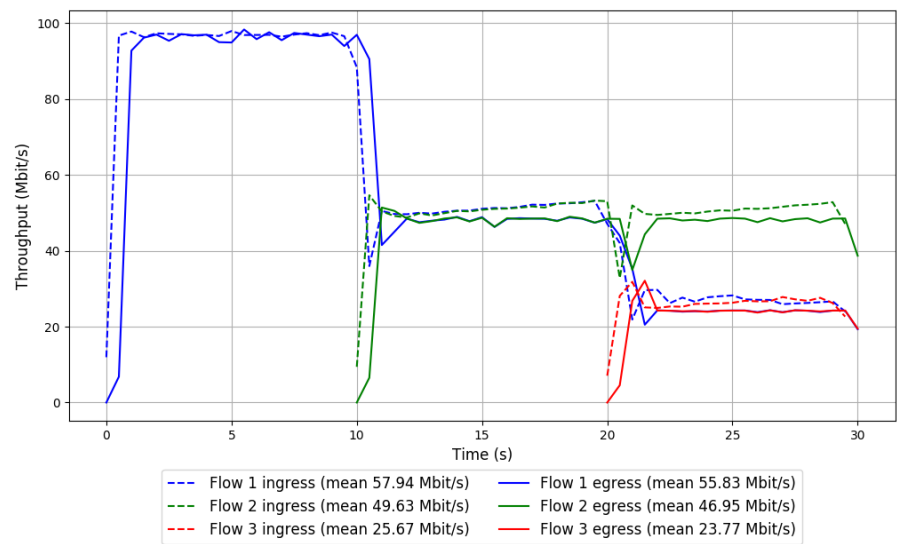
-- Flow 3:

Average throughput: 23.77 Mbit/s

95th percentile per-packet one-way delay: 76.785 ms

Loss rate: 8.15%

Run 9: Report of FillP-Sheep — Data Link



Run 10: Statistics of FillP-Sheep

Start at: 2018-07-11 00:18:43

End at: 2018-07-11 00:19:13

Local clock offset: 0.371 ms

Remote clock offset: 2.794 ms

Below is generated by plot.py at 2018-07-11 00:35:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.23 Mbit/s

95th percentile per-packet one-way delay: 74.032 ms

Loss rate: 6.83%

-- Flow 1:

Average throughput: 62.68 Mbit/s

95th percentile per-packet one-way delay: 59.794 ms

Loss rate: 5.38%

-- Flow 2:

Average throughput: 35.87 Mbit/s

95th percentile per-packet one-way delay: 74.520 ms

Loss rate: 9.18%

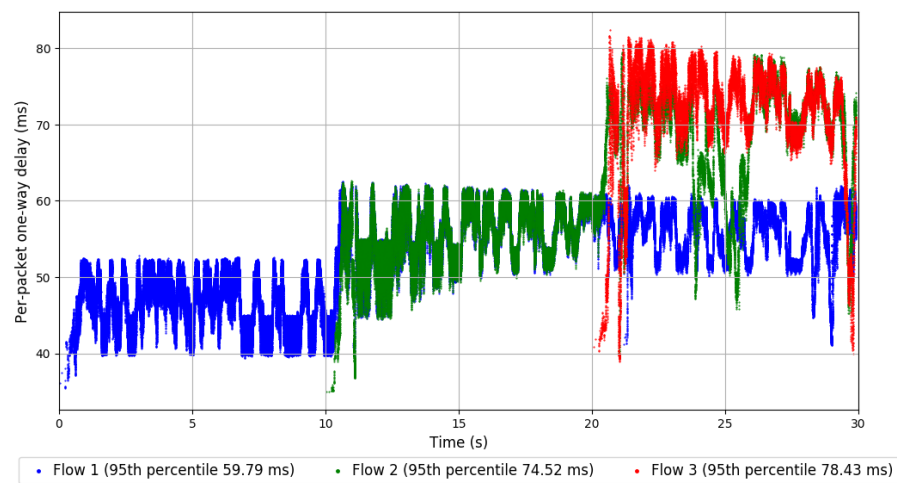
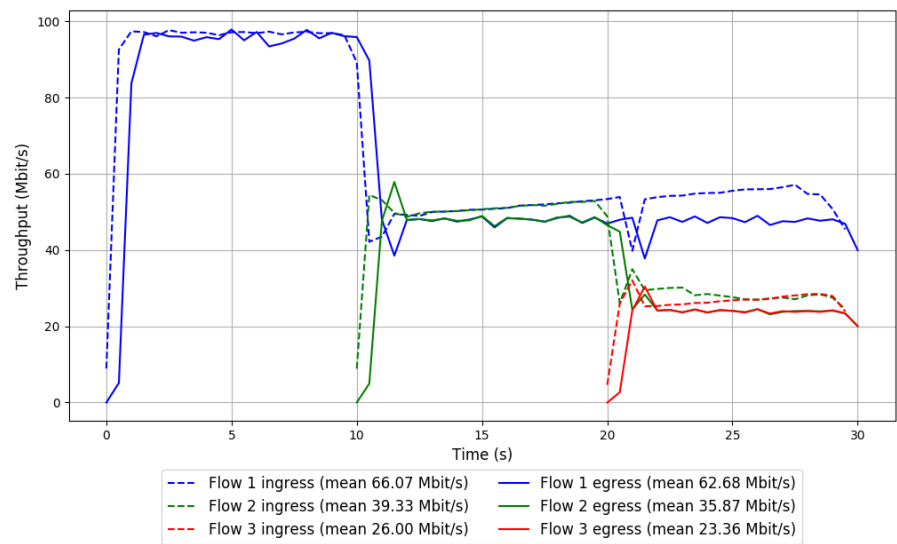
-- Flow 3:

Average throughput: 23.36 Mbit/s

95th percentile per-packet one-way delay: 78.434 ms

Loss rate: 10.82%

Run 10: Report of FillP-Sheep — Data Link

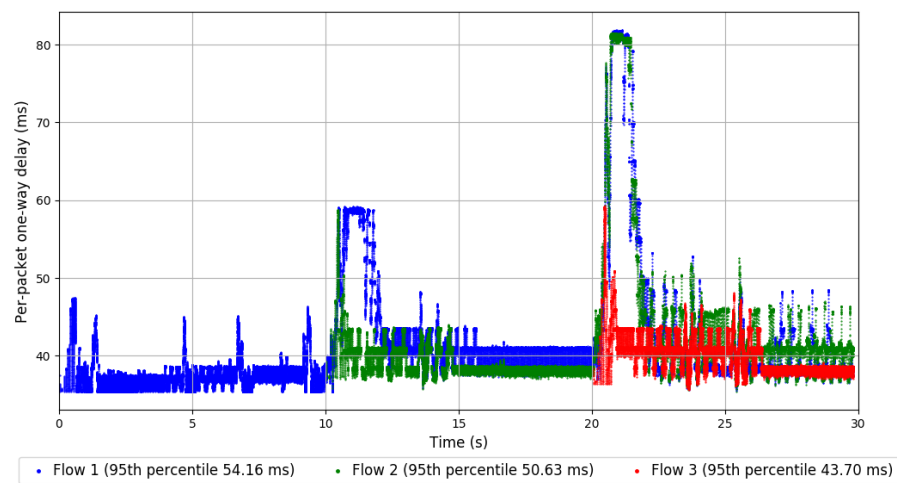
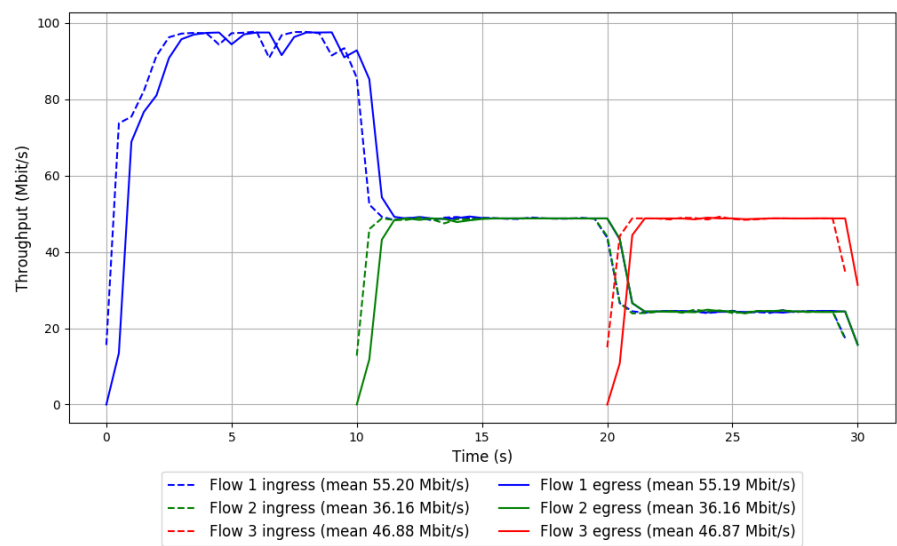


```
Run 1: Statistics of Indigo

Start at: 2018-07-10 20:38:31
End at: 2018-07-10 20:39:01
Local clock offset: 0.051 ms
Remote clock offset: 3.14 ms

# Below is generated by plot.py at 2018-07-11 00:35:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.56 Mbit/s
95th percentile per-packet one-way delay: 49.560 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 55.19 Mbit/s
95th percentile per-packet one-way delay: 54.165 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 36.16 Mbit/s
95th percentile per-packet one-way delay: 50.626 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 46.87 Mbit/s
95th percentile per-packet one-way delay: 43.701 ms
Loss rate: 0.78%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-07-10 21:02:52

End at: 2018-07-10 21:03:22

Local clock offset: 0.111 ms

Remote clock offset: 3.367 ms

Below is generated by plot.py at 2018-07-11 00:35:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.44 Mbit/s

95th percentile per-packet one-way delay: 47.512 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 60.96 Mbit/s

95th percentile per-packet one-way delay: 43.862 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 36.15 Mbit/s

95th percentile per-packet one-way delay: 54.861 ms

Loss rate: 0.50%

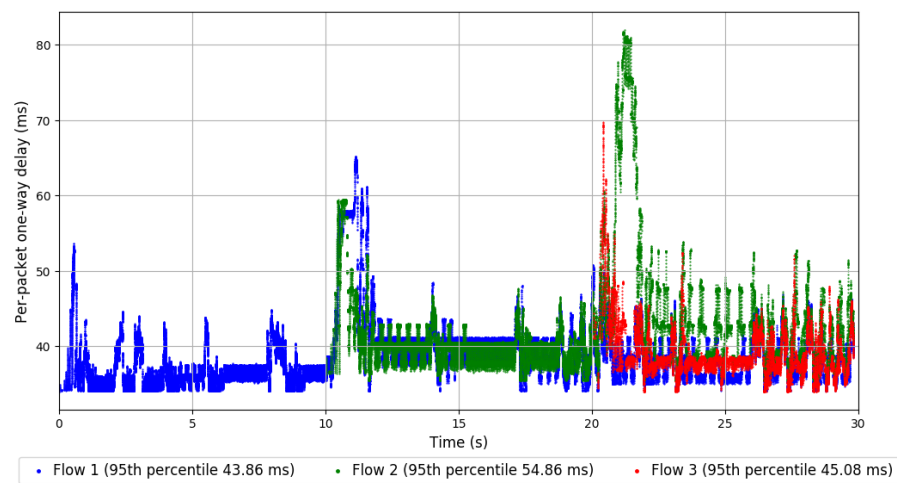
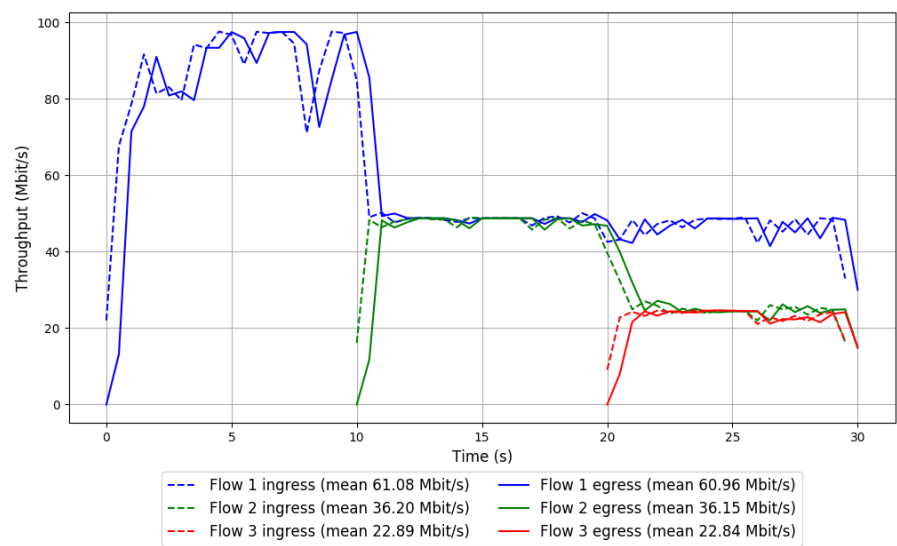
-- Flow 3:

Average throughput: 22.84 Mbit/s

95th percentile per-packet one-way delay: 45.079 ms

Loss rate: 0.99%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

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

End at: 2018-07-10 21:26:51

Local clock offset: 0.048 ms

Remote clock offset: 3.062 ms

Below is generated by plot.py at 2018-07-11 00:35:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.04 Mbit/s

95th percentile per-packet one-way delay: 44.148 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 63.60 Mbit/s

95th percentile per-packet one-way delay: 44.658 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 33.46 Mbit/s

95th percentile per-packet one-way delay: 42.216 ms

Loss rate: 0.67%

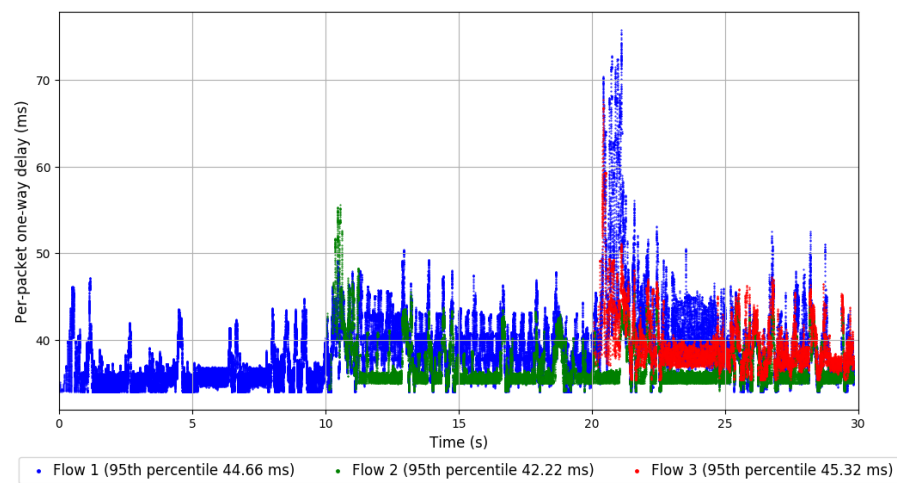
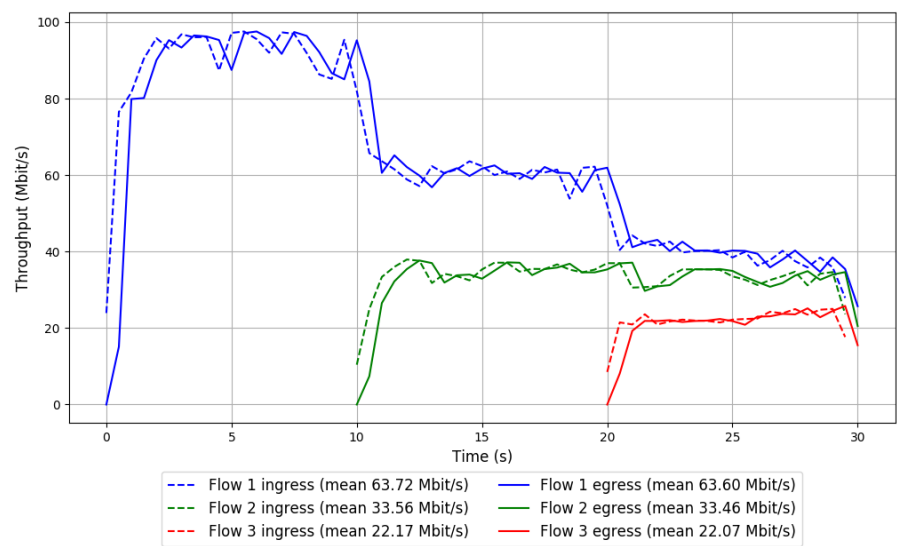
-- Flow 3:

Average throughput: 22.07 Mbit/s

95th percentile per-packet one-way delay: 45.317 ms

Loss rate: 1.17%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-07-10 21:50:40

End at: 2018-07-10 21:51:10

Local clock offset: 0.067 ms

Remote clock offset: 3.618 ms

Below is generated by plot.py at 2018-07-11 00:35:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.50 Mbit/s

95th percentile per-packet one-way delay: 48.765 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 58.18 Mbit/s

95th percentile per-packet one-way delay: 49.770 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 39.38 Mbit/s

95th percentile per-packet one-way delay: 48.144 ms

Loss rate: 0.48%

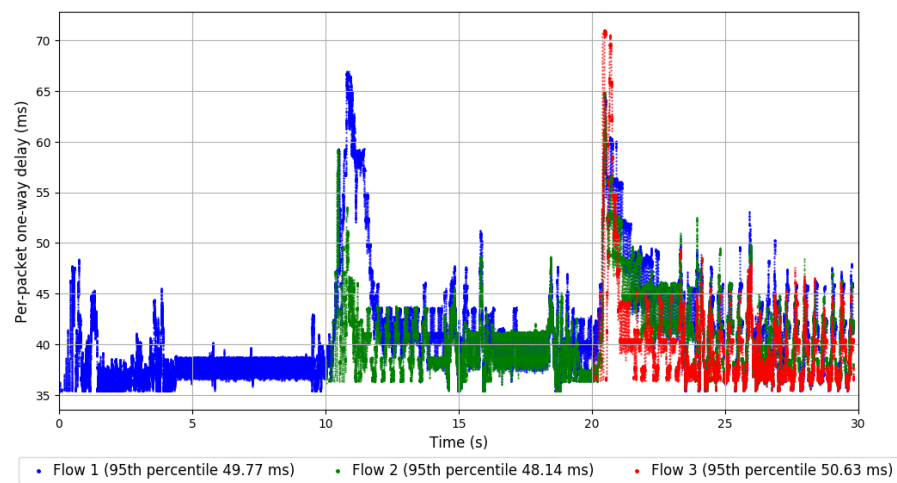
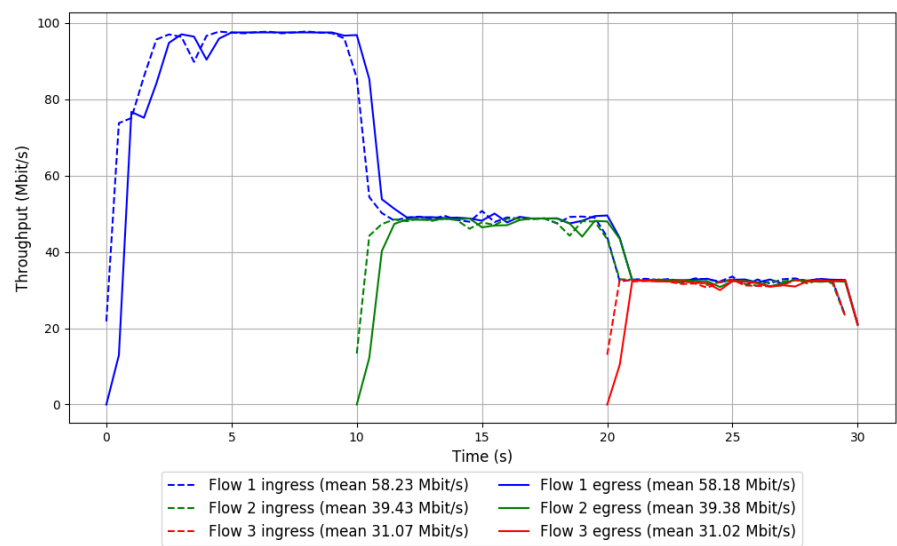
-- Flow 3:

Average throughput: 31.02 Mbit/s

95th percentile per-packet one-way delay: 50.631 ms

Loss rate: 0.88%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-07-10 22:14:59

End at: 2018-07-10 22:15:29

Local clock offset: -0.109 ms

Remote clock offset: 5.573 ms

Below is generated by plot.py at 2018-07-11 00:36:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.34 Mbit/s

95th percentile per-packet one-way delay: 47.198 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 56.41 Mbit/s

95th percentile per-packet one-way delay: 46.149 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 35.60 Mbit/s

95th percentile per-packet one-way delay: 49.602 ms

Loss rate: 0.41%

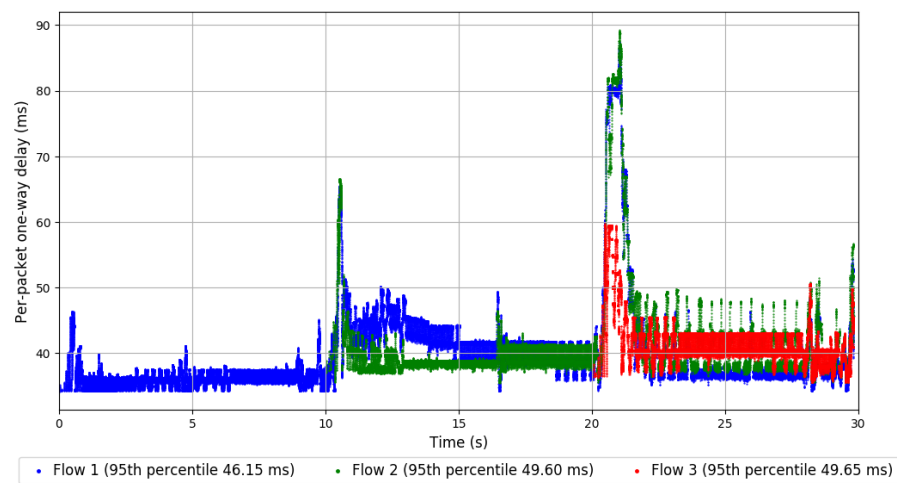
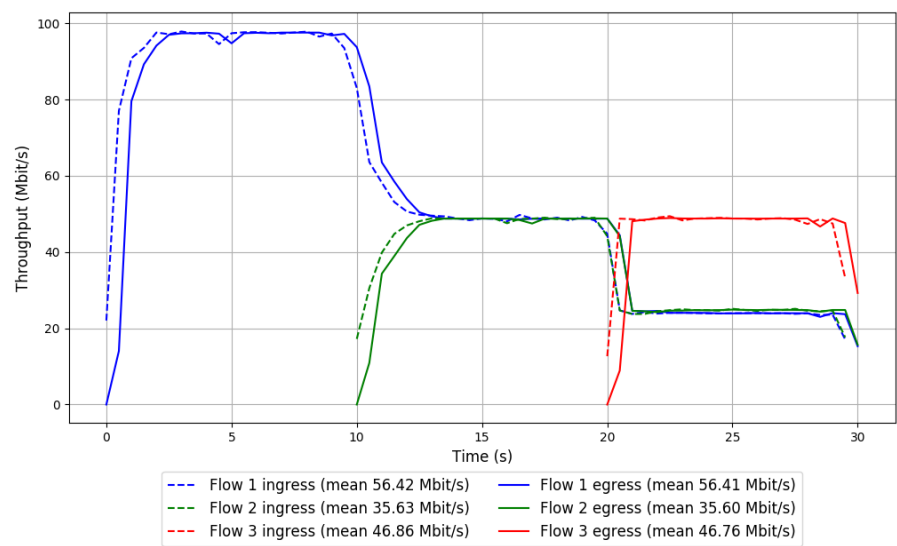
-- Flow 3:

Average throughput: 46.76 Mbit/s

95th percentile per-packet one-way delay: 49.646 ms

Loss rate: 0.92%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-07-10 22:39:13

End at: 2018-07-10 22:39:43

Local clock offset: -0.162 ms

Remote clock offset: 7.513 ms

Below is generated by plot.py at 2018-07-11 00:36:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.14 Mbit/s

95th percentile per-packet one-way delay: 49.131 ms

Loss rate: 1.02%

-- Flow 1:

Average throughput: 52.44 Mbit/s

95th percentile per-packet one-way delay: 49.543 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 37.64 Mbit/s

95th percentile per-packet one-way delay: 47.908 ms

Loss rate: 0.96%

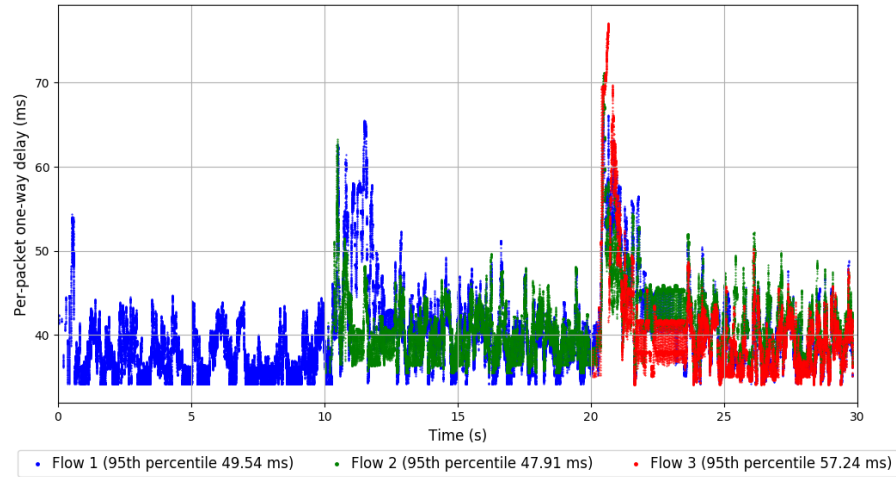
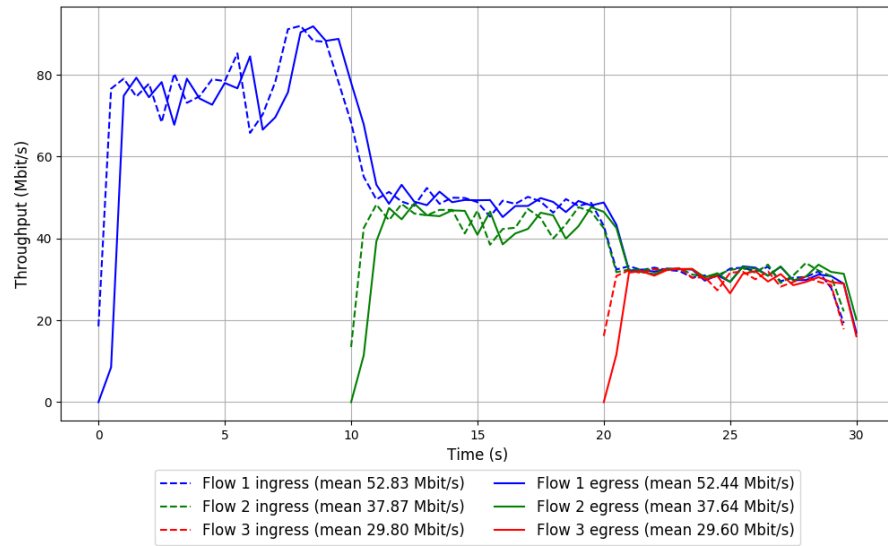
-- Flow 3:

Average throughput: 29.60 Mbit/s

95th percentile per-packet one-way delay: 57.239 ms

Loss rate: 1.38%

Run 6: Report of Indigo — Data Link

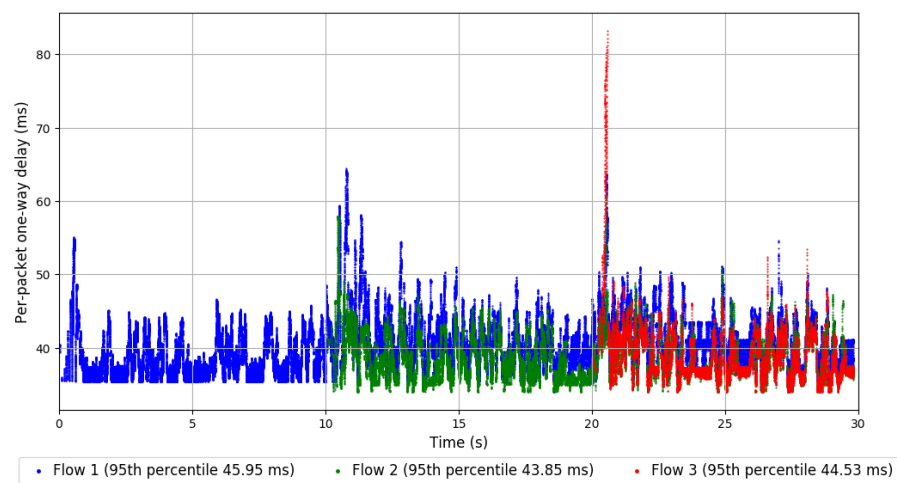
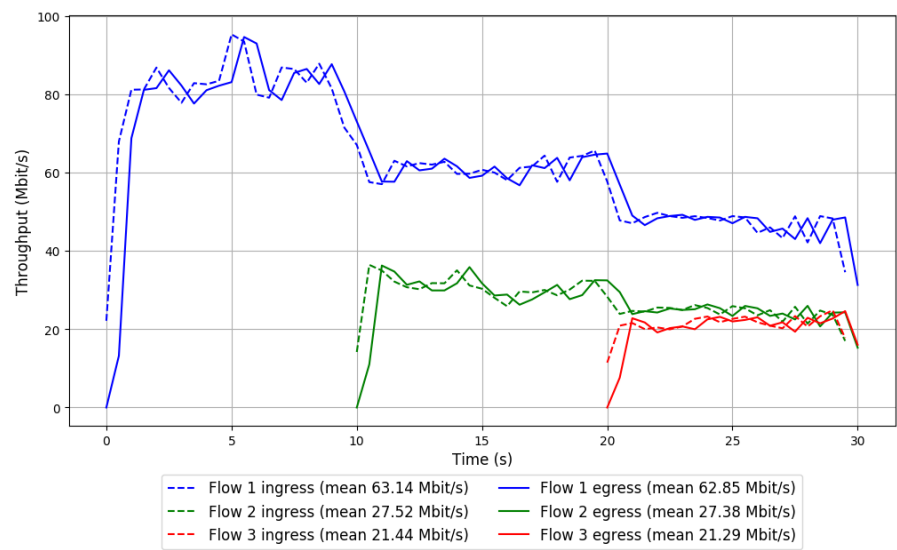


Run 7: Statistics of Indigo

Start at: 2018-07-10 23:04:34
End at: 2018-07-10 23:05:04
Local clock offset: -0.272 ms
Remote clock offset: 2.481 ms

Below is generated by plot.py at 2018-07-11 00:36:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.00 Mbit/s
95th percentile per-packet one-way delay: 45.483 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 62.85 Mbit/s
95th percentile per-packet one-way delay: 45.946 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 27.38 Mbit/s
95th percentile per-packet one-way delay: 43.852 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 21.29 Mbit/s
95th percentile per-packet one-way delay: 44.533 ms
Loss rate: 1.48%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-07-10 23:30:06

End at: 2018-07-10 23:30:36

Local clock offset: -0.975 ms

Remote clock offset: 1.746 ms

Below is generated by plot.py at 2018-07-11 00:36:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.75 Mbit/s

95th percentile per-packet one-way delay: 47.296 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 48.16 Mbit/s

95th percentile per-packet one-way delay: 47.441 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 32.92 Mbit/s

95th percentile per-packet one-way delay: 49.345 ms

Loss rate: 0.98%

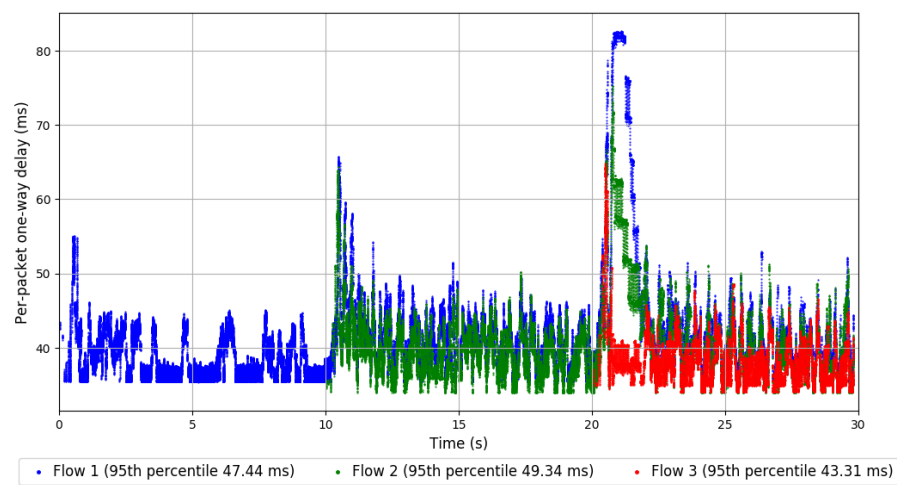
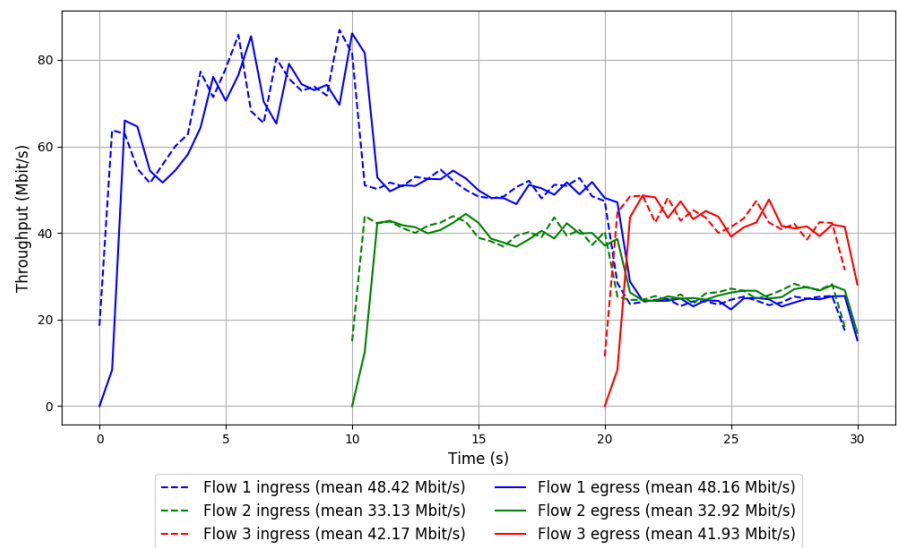
-- Flow 3:

Average throughput: 41.93 Mbit/s

95th percentile per-packet one-way delay: 43.307 ms

Loss rate: 1.27%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-07-10 23:56:22

End at: 2018-07-10 23:56:52

Local clock offset: -0.502 ms

Remote clock offset: 2.03 ms

Below is generated by plot.py at 2018-07-11 00:36:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.61 Mbit/s

95th percentile per-packet one-way delay: 47.192 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 47.32 Mbit/s

95th percentile per-packet one-way delay: 46.652 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 32.39 Mbit/s

95th percentile per-packet one-way delay: 51.184 ms

Loss rate: 0.83%

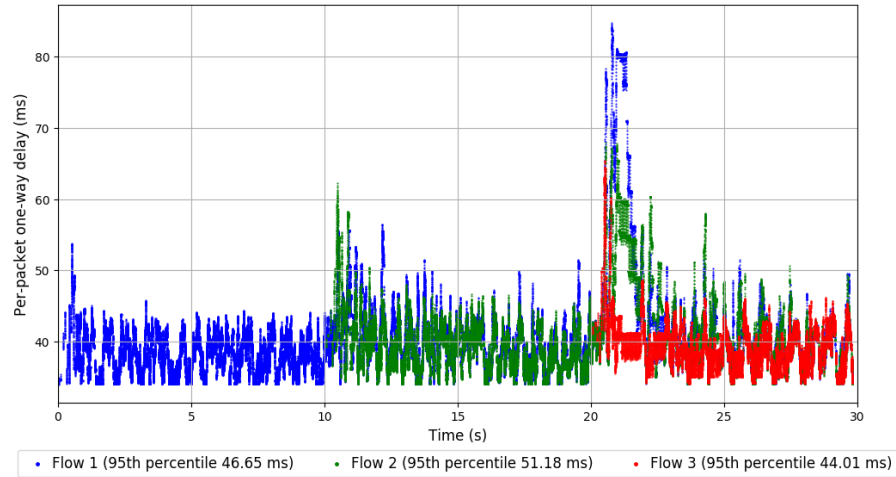
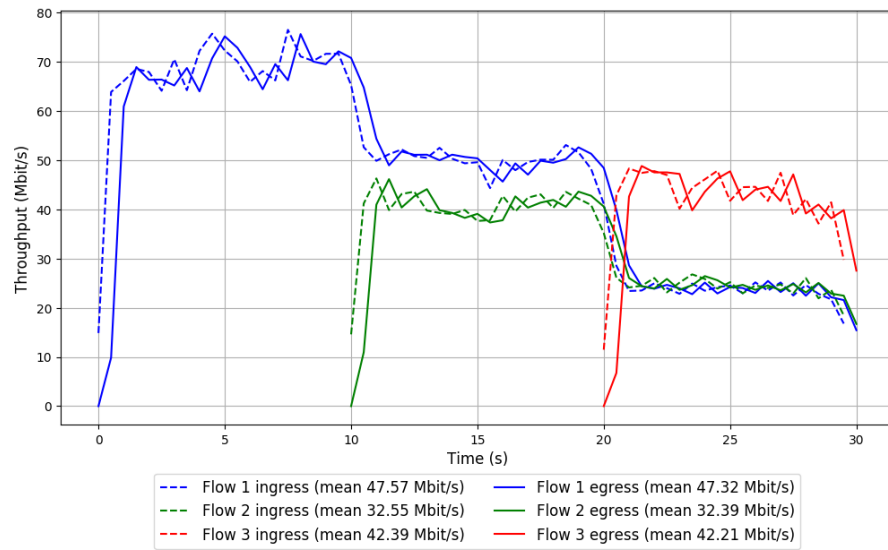
-- Flow 3:

Average throughput: 42.21 Mbit/s

95th percentile per-packet one-way delay: 44.013 ms

Loss rate: 1.17%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-07-11 00:22:02

End at: 2018-07-11 00:22:32

Local clock offset: 0.375 ms

Remote clock offset: 2.832 ms

Below is generated by plot.py at 2018-07-11 00:36:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.76 Mbit/s

95th percentile per-packet one-way delay: 45.475 ms

Loss rate: 1.31%

-- Flow 1:

Average throughput: 56.34 Mbit/s

95th percentile per-packet one-way delay: 45.044 ms

Loss rate: 1.20%

-- Flow 2:

Average throughput: 20.07 Mbit/s

95th percentile per-packet one-way delay: 44.482 ms

Loss rate: 1.45%

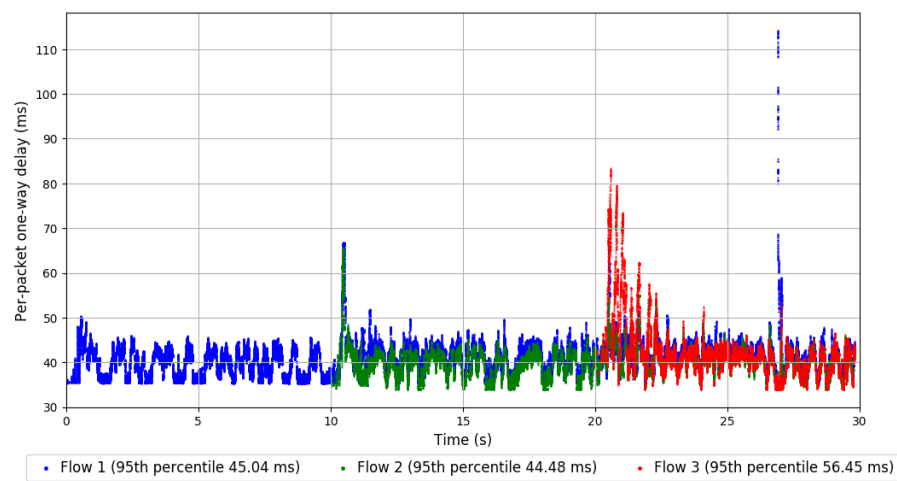
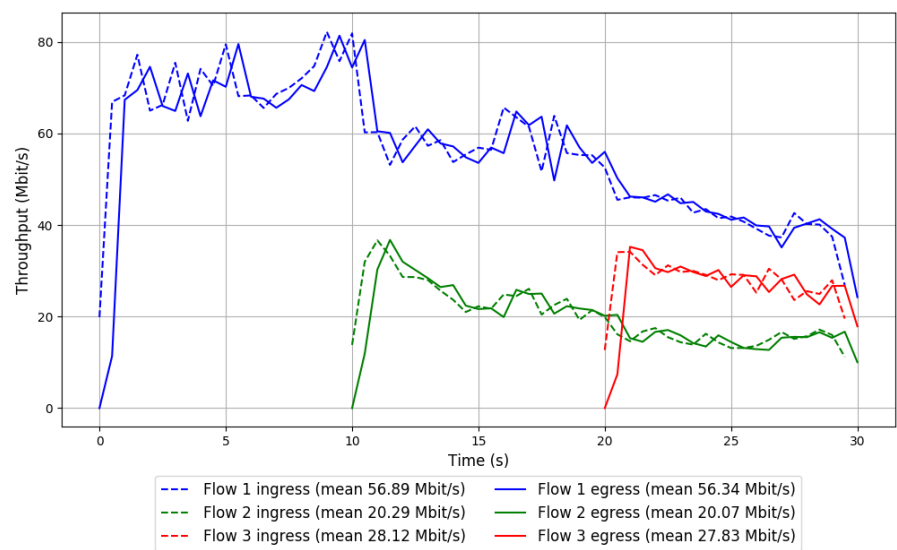
-- Flow 3:

Average throughput: 27.83 Mbit/s

95th percentile per-packet one-way delay: 56.449 ms

Loss rate: 1.82%

Run 10: Report of Indigo — Data Link

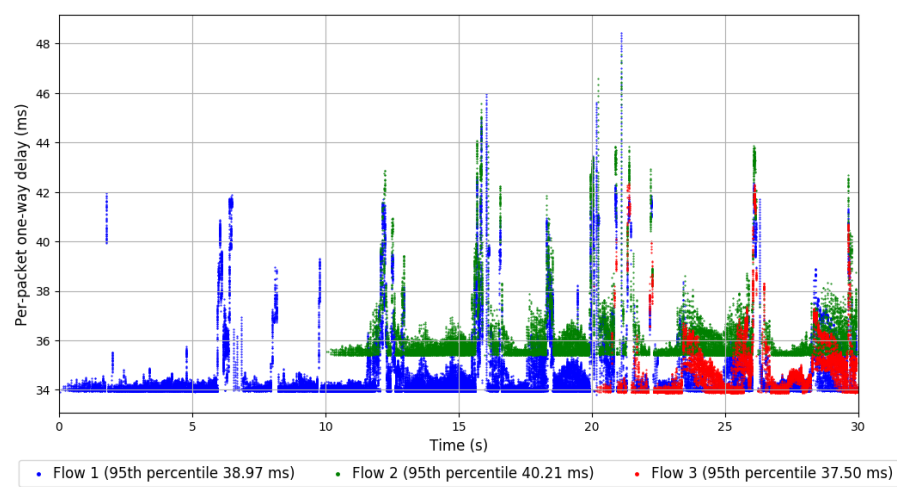
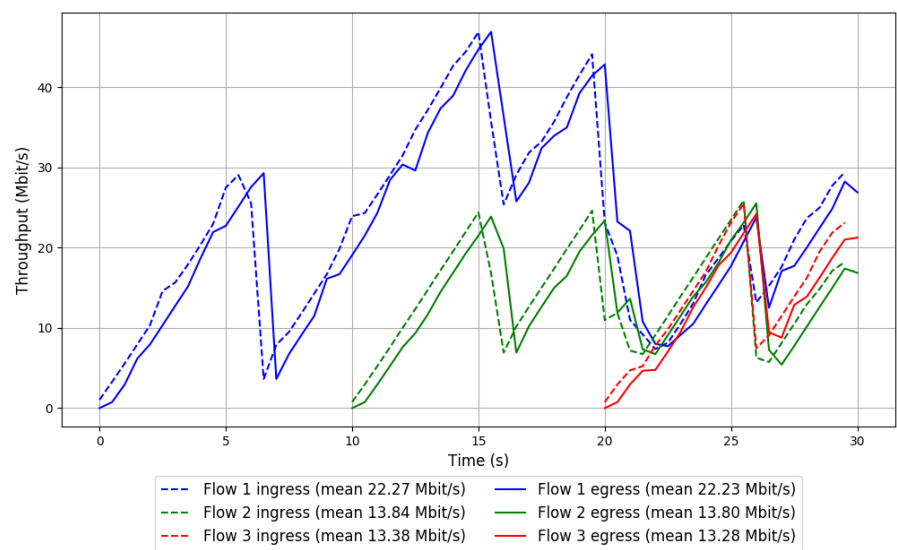


```
Run 1: Statistics of LEDBAT

Start at: 2018-07-10 20:17:28
End at: 2018-07-10 20:17:58
Local clock offset: 0.263 ms
Remote clock offset: 2.821 ms

# Below is generated by plot.py at 2018-07-11 00:36:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 35.80 Mbit/s
95th percentile per-packet one-way delay: 39.112 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 22.23 Mbit/s
95th percentile per-packet one-way delay: 38.972 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 13.80 Mbit/s
95th percentile per-packet one-way delay: 40.208 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 13.28 Mbit/s
95th percentile per-packet one-way delay: 37.497 ms
Loss rate: 1.45%
```

Run 1: Report of LEDBAT — Data Link

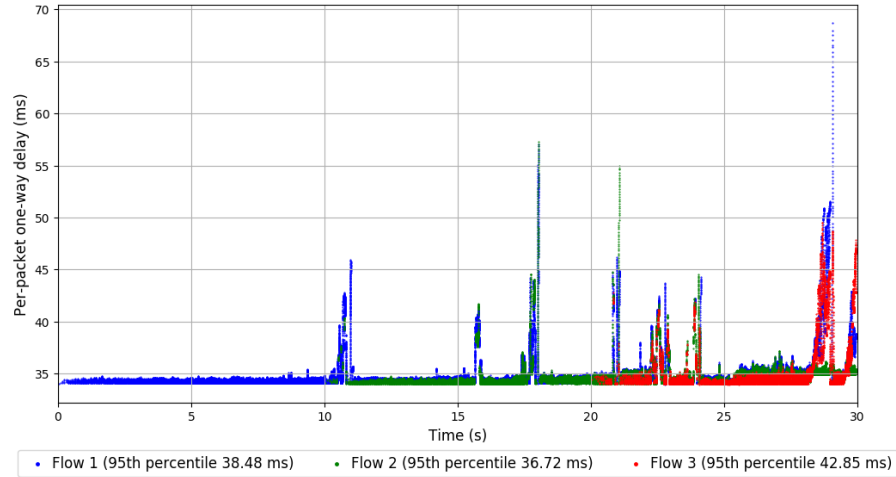
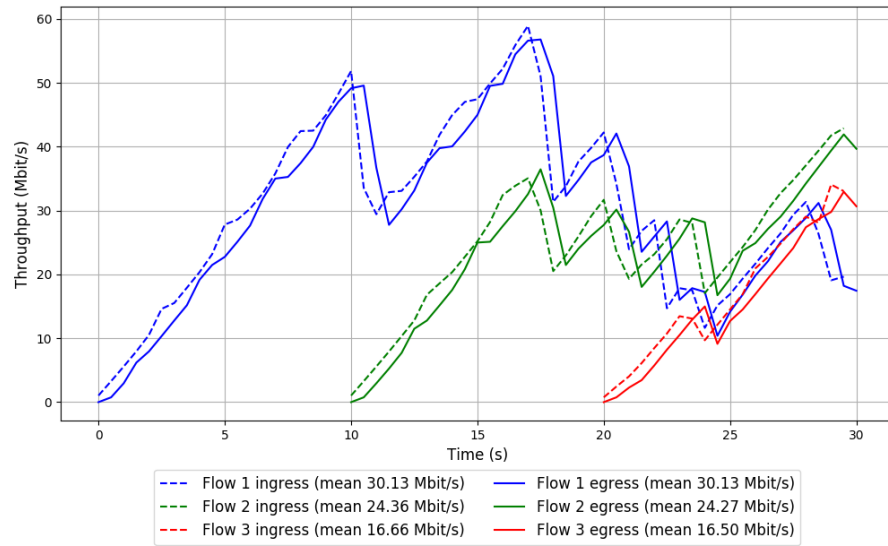


```
Run 2: Statistics of LEDBAT

Start at: 2018-07-10 20:41:22
End at: 2018-07-10 20:41:52
Local clock offset: 0.122 ms
Remote clock offset: 3.204 ms

# Below is generated by plot.py at 2018-07-11 00:36:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 51.73 Mbit/s
95th percentile per-packet one-way delay: 38.812 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 30.13 Mbit/s
95th percentile per-packet one-way delay: 38.482 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 24.27 Mbit/s
95th percentile per-packet one-way delay: 36.720 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 16.50 Mbit/s
95th percentile per-packet one-way delay: 42.852 ms
Loss rate: 1.63%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-07-10 21:05:37

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

Local clock offset: 0.113 ms

Remote clock offset: 3.175 ms

Below is generated by plot.py at 2018-07-11 00:36:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 33.45 Mbit/s

95th percentile per-packet one-way delay: 38.593 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 17.52 Mbit/s

95th percentile per-packet one-way delay: 38.345 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 17.07 Mbit/s

95th percentile per-packet one-way delay: 38.605 ms

Loss rate: 0.65%

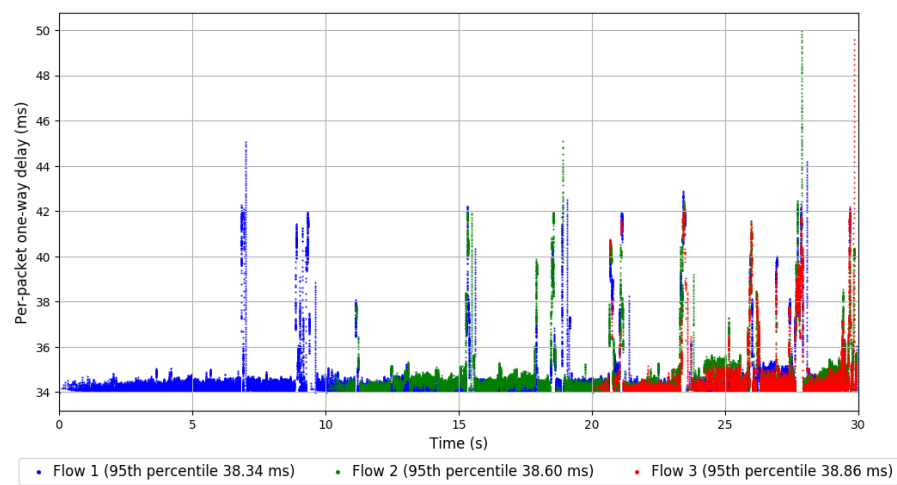
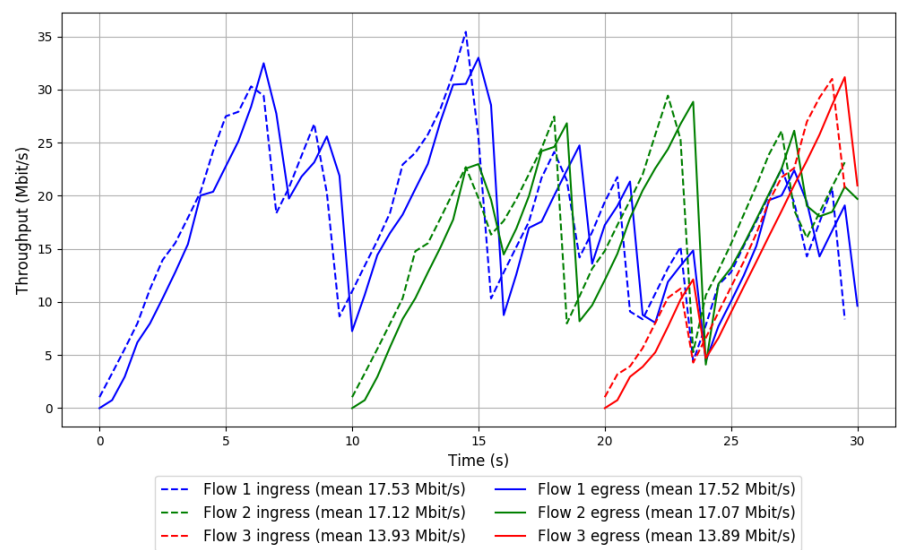
-- Flow 3:

Average throughput: 13.89 Mbit/s

95th percentile per-packet one-way delay: 38.864 ms

Loss rate: 1.01%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

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

End at: 2018-07-10 21:29:40

Local clock offset: 0.058 ms

Remote clock offset: 3.091 ms

Below is generated by plot.py at 2018-07-11 00:36:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 35.17 Mbit/s

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

Loss rate: 0.46%

-- Flow 1:

Average throughput: 17.05 Mbit/s

95th percentile per-packet one-way delay: 38.082 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 20.37 Mbit/s

95th percentile per-packet one-way delay: 39.244 ms

Loss rate: 0.38%

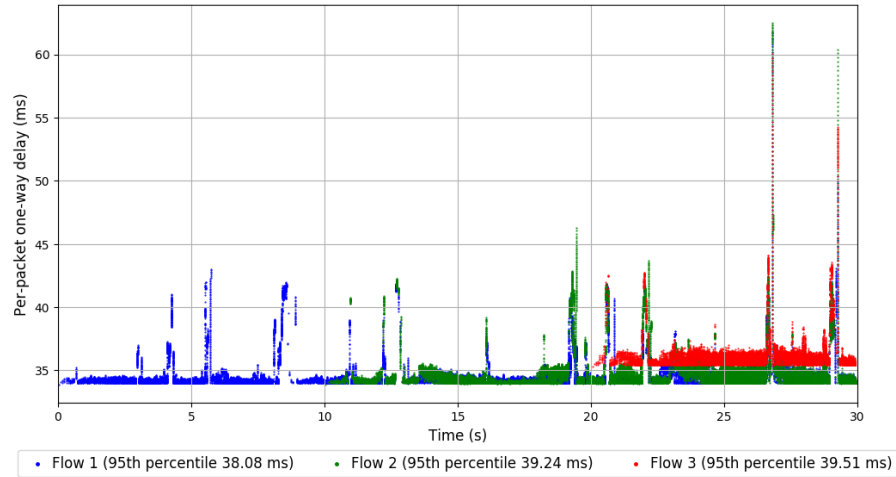
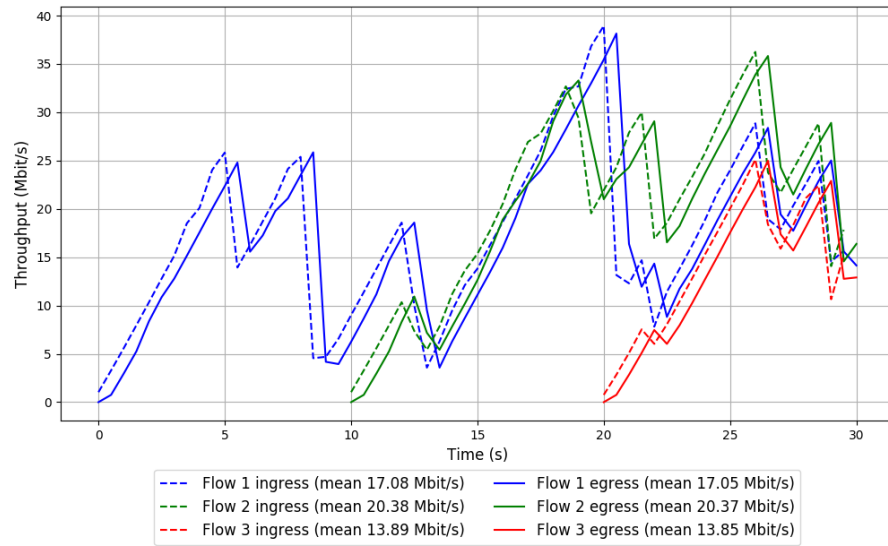
-- Flow 3:

Average throughput: 13.85 Mbit/s

95th percentile per-packet one-way delay: 39.507 ms

Loss rate: 1.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-07-10 21:53:47

End at: 2018-07-10 21:54:17

Local clock offset: 0.032 ms

Remote clock offset: 3.582 ms

Below is generated by plot.py at 2018-07-11 00:36:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.70 Mbit/s

95th percentile per-packet one-way delay: 43.493 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 37.63 Mbit/s

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

Loss rate: 0.18%

-- Flow 2:

Average throughput: 30.43 Mbit/s

95th percentile per-packet one-way delay: 44.601 ms

Loss rate: 0.46%

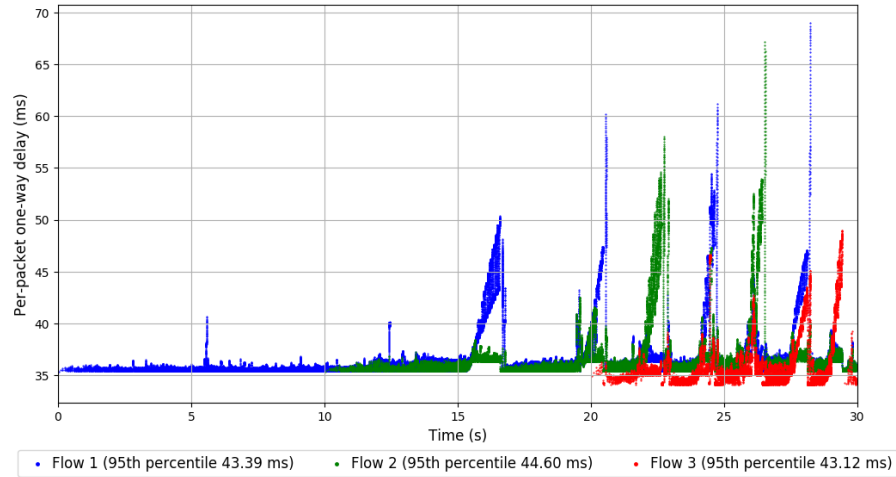
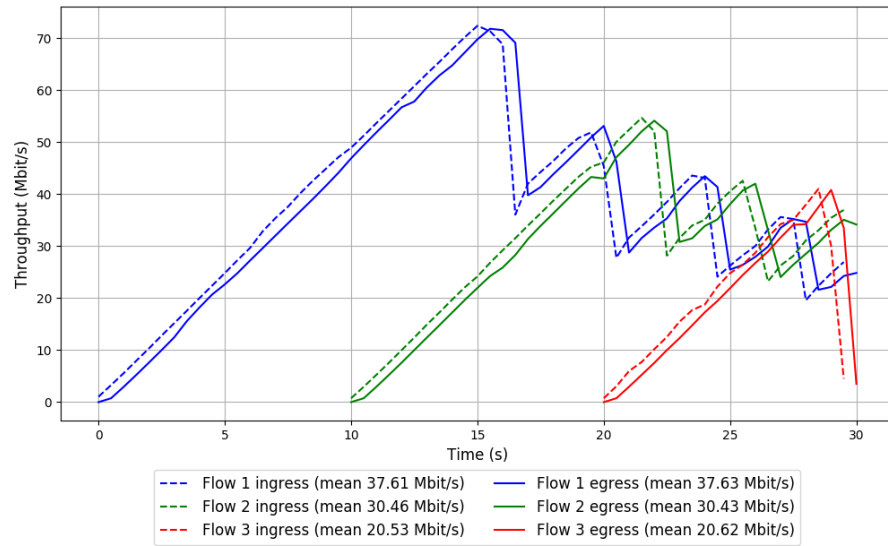
-- Flow 3:

Average throughput: 20.62 Mbit/s

95th percentile per-packet one-way delay: 43.122 ms

Loss rate: 0.28%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-07-10 22:17:51

End at: 2018-07-10 22:18:21

Local clock offset: -0.108 ms

Remote clock offset: 5.931 ms

Below is generated by plot.py at 2018-07-11 00:36:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 45.53 Mbit/s

95th percentile per-packet one-way delay: 37.829 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 23.28 Mbit/s

95th percentile per-packet one-way delay: 36.683 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 25.15 Mbit/s

95th percentile per-packet one-way delay: 38.720 ms

Loss rate: 0.52%

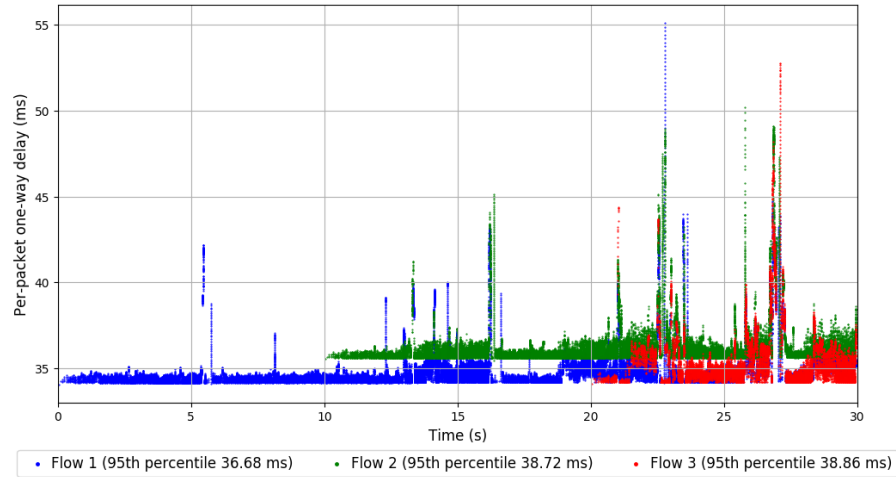
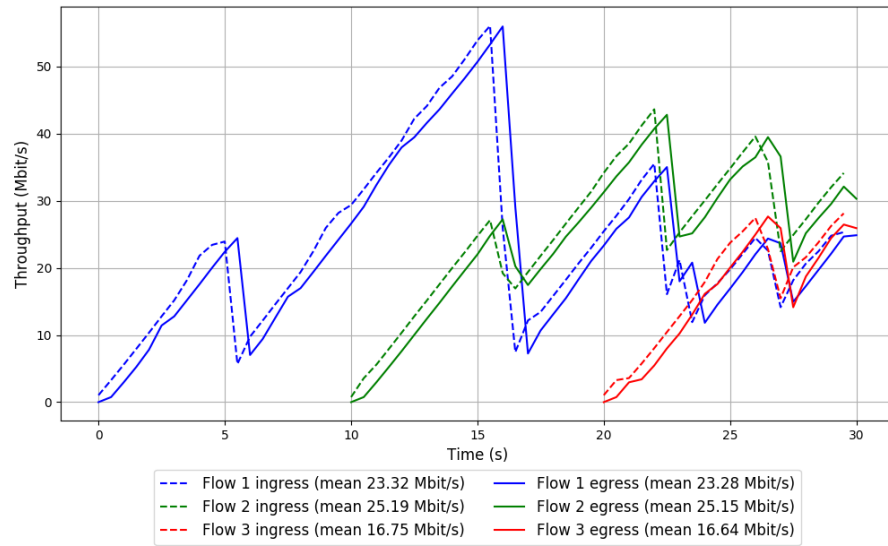
-- Flow 3:

Average throughput: 16.64 Mbit/s

95th percentile per-packet one-way delay: 38.864 ms

Loss rate: 1.33%

Run 6: Report of LEDBAT — Data Link

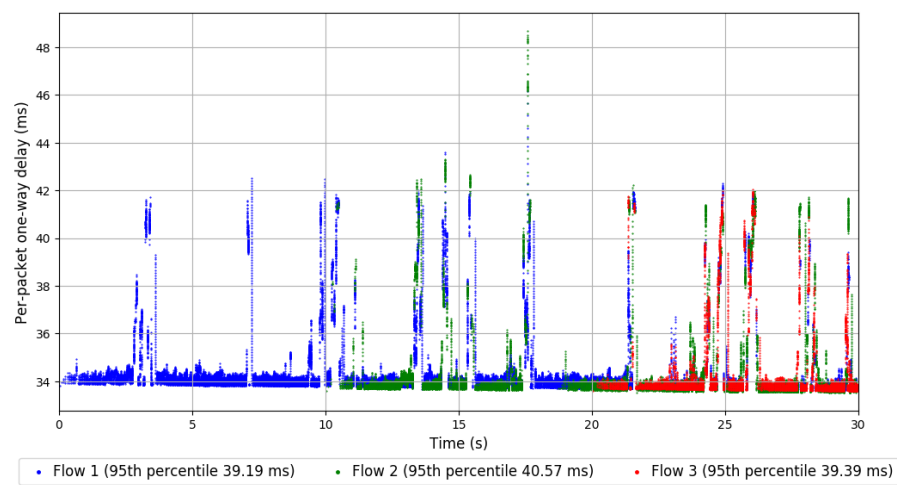
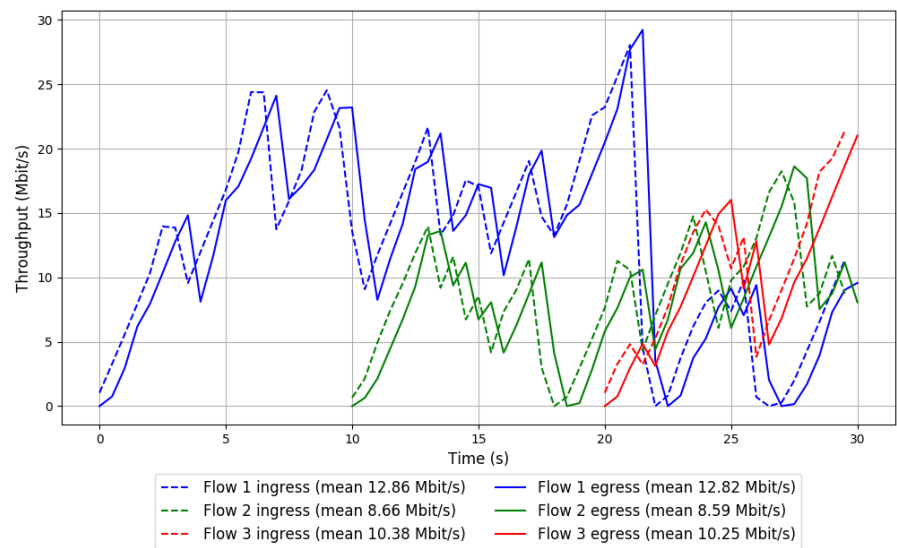


Run 7: Statistics of LEDBAT

Start at: 2018-07-10 22:42:19
End at: 2018-07-10 22:42:49
Local clock offset: -0.178 ms
Remote clock offset: 7.34 ms

```
# Below is generated by plot.py at 2018-07-11 00:36:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 21.91 Mbit/s
95th percentile per-packet one-way delay: 39.641 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 12.82 Mbit/s
95th percentile per-packet one-way delay: 39.186 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 8.59 Mbit/s
95th percentile per-packet one-way delay: 40.571 ms
Loss rate: 1.15%
-- Flow 3:
Average throughput: 10.25 Mbit/s
95th percentile per-packet one-way delay: 39.387 ms
Loss rate: 1.86%
```

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-07-10 23:07:39

End at: 2018-07-10 23:08:09

Local clock offset: -0.332 ms

Remote clock offset: 2.24 ms

Below is generated by plot.py at 2018-07-11 00:36:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.06 Mbit/s

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

Loss rate: 0.85%

-- Flow 1:

Average throughput: 9.78 Mbit/s

95th percentile per-packet one-way delay: 40.788 ms

Loss rate: 0.91%

-- Flow 2:

Average throughput: 10.00 Mbit/s

95th percentile per-packet one-way delay: 40.822 ms

Loss rate: 0.72%

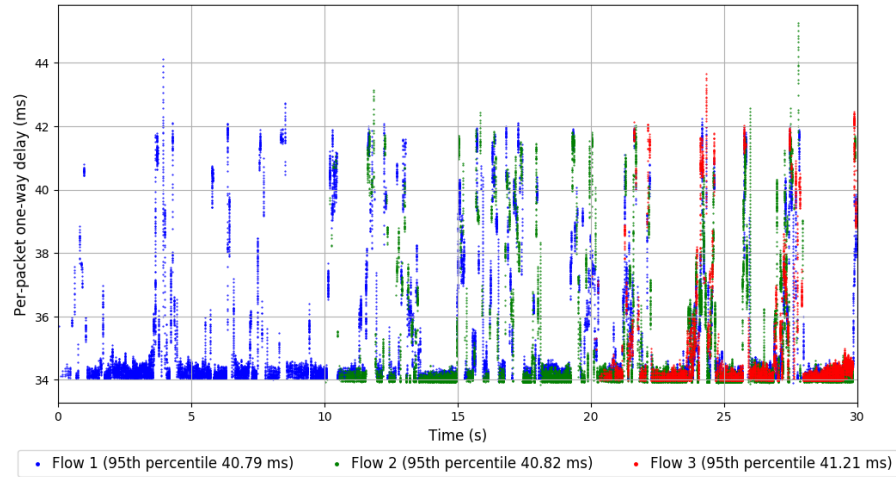
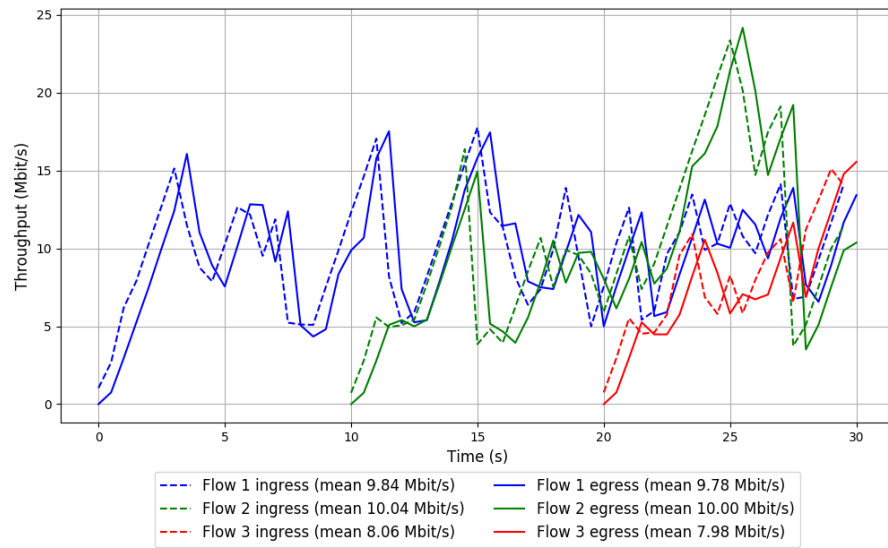
-- Flow 3:

Average throughput: 7.98 Mbit/s

95th percentile per-packet one-way delay: 41.211 ms

Loss rate: 0.98%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

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

End at: 2018-07-10 23:33:40

Local clock offset: -0.94 ms

Remote clock offset: 1.613 ms

Below is generated by plot.py at 2018-07-11 00:36:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 21.65 Mbit/s

95th percentile per-packet one-way delay: 40.039 ms

Loss rate: 1.15%

-- Flow 1:

Average throughput: 10.84 Mbit/s

95th percentile per-packet one-way delay: 40.330 ms

Loss rate: 0.88%

-- Flow 2:

Average throughput: 10.23 Mbit/s

95th percentile per-packet one-way delay: 39.589 ms

Loss rate: 1.27%

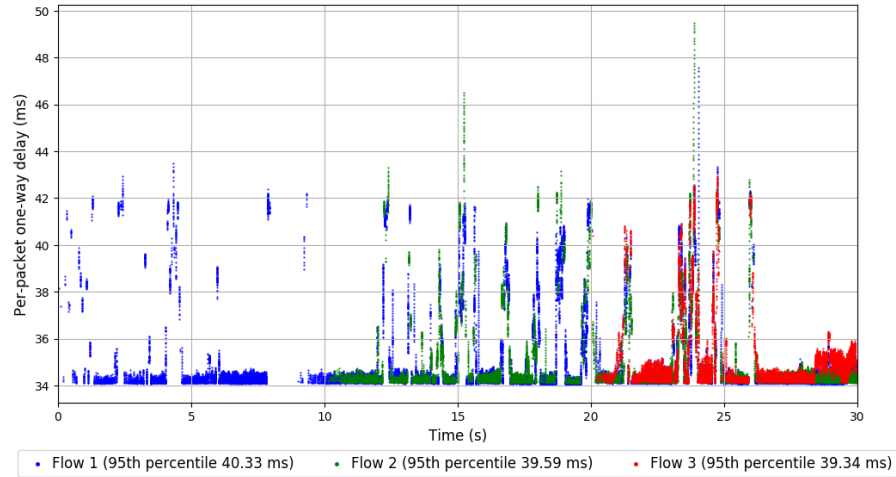
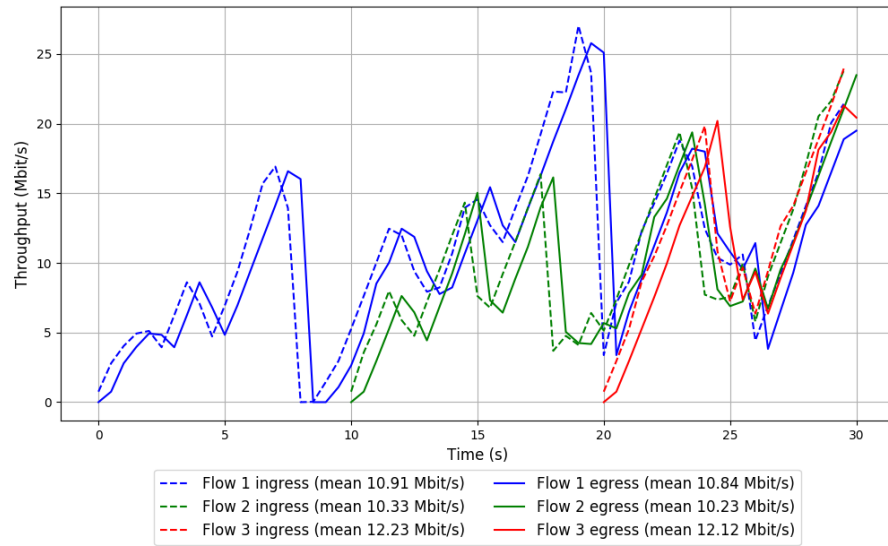
-- Flow 3:

Average throughput: 12.12 Mbit/s

95th percentile per-packet one-way delay: 39.335 ms

Loss rate: 1.65%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-07-10 23:59:26

End at: 2018-07-10 23:59:56

Local clock offset: -0.376 ms

Remote clock offset: 2.256 ms

Below is generated by plot.py at 2018-07-11 00:36:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.99 Mbit/s

95th percentile per-packet one-way delay: 40.871 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 9.19 Mbit/s

95th percentile per-packet one-way delay: 41.034 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 10.03 Mbit/s

95th percentile per-packet one-way delay: 40.576 ms

Loss rate: 1.01%

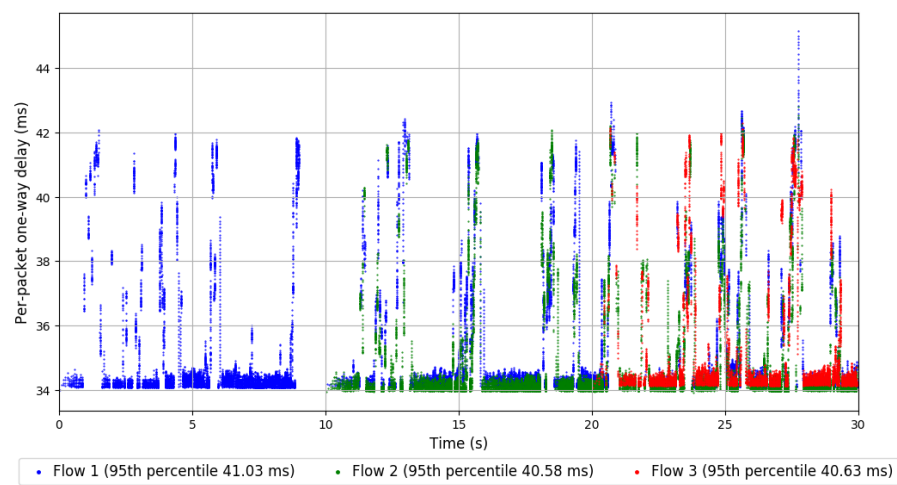
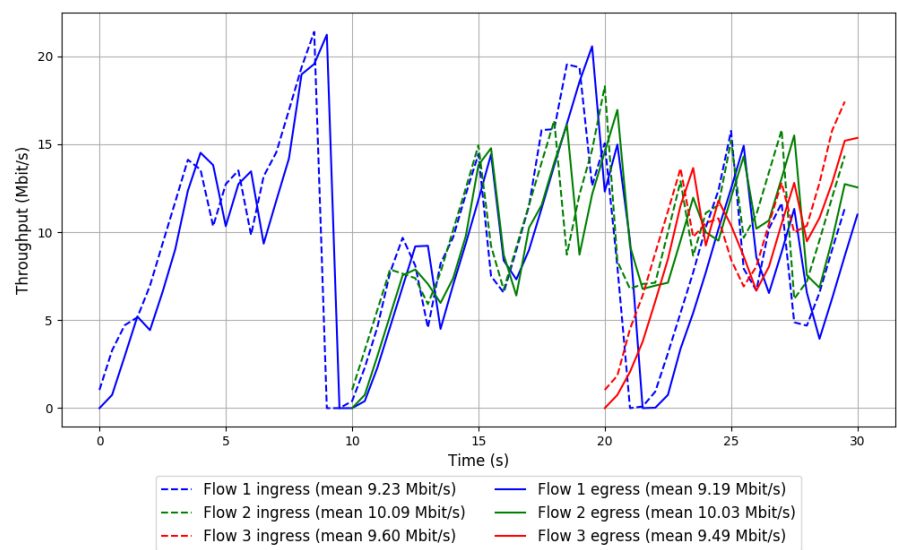
-- Flow 3:

Average throughput: 9.49 Mbit/s

95th percentile per-packet one-way delay: 40.635 ms

Loss rate: 1.82%

Run 10: Report of LEDBAT — Data Link

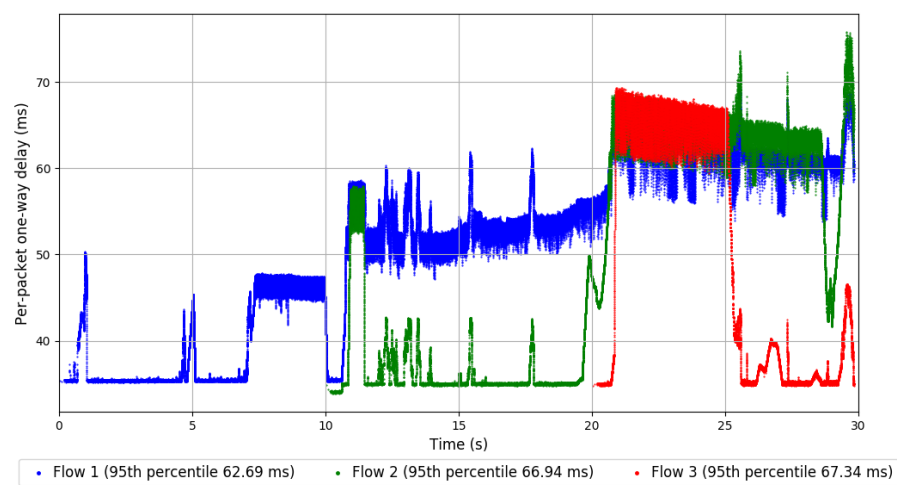
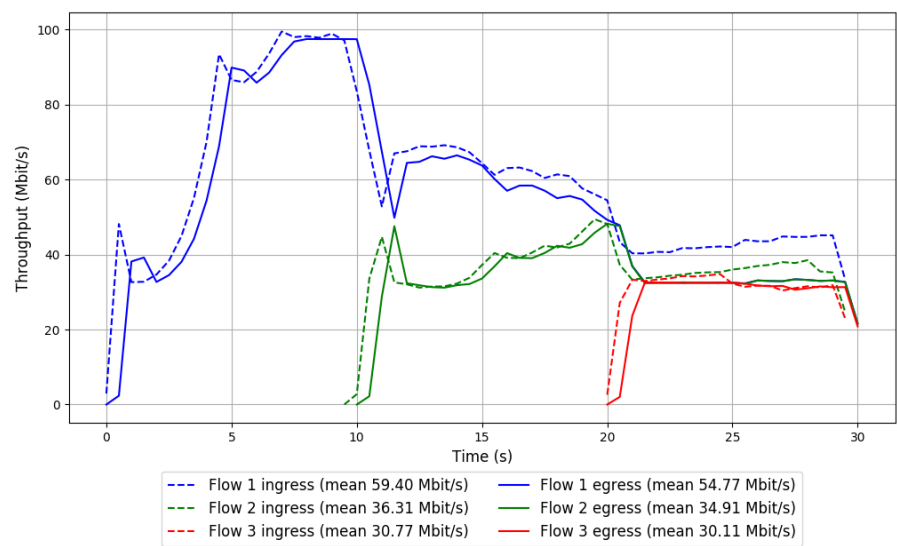


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-07-10 20:37:07
End at: 2018-07-10 20:37:37
Local clock offset: 0.154 ms
Remote clock offset: 3.089 ms

# Below is generated by plot.py at 2018-07-11 00:37:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.86 Mbit/s
95th percentile per-packet one-way delay: 65.904 ms
Loss rate: 6.48%
-- Flow 1:
Average throughput: 54.77 Mbit/s
95th percentile per-packet one-way delay: 62.692 ms
Loss rate: 8.04%
-- Flow 2:
Average throughput: 34.91 Mbit/s
95th percentile per-packet one-way delay: 66.942 ms
Loss rate: 4.19%
-- Flow 3:
Average throughput: 30.11 Mbit/s
95th percentile per-packet one-way delay: 67.338 ms
Loss rate: 2.84%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-07-10 21:01:27

End at: 2018-07-10 21:01:57

Local clock offset: 0.12 ms

Remote clock offset: 3.446 ms

Below is generated by plot.py at 2018-07-11 00:37:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.70 Mbit/s

95th percentile per-packet one-way delay: 64.934 ms

Loss rate: 2.92%

-- Flow 1:

Average throughput: 53.62 Mbit/s

95th percentile per-packet one-way delay: 64.347 ms

Loss rate: 2.58%

-- Flow 2:

Average throughput: 34.32 Mbit/s

95th percentile per-packet one-way delay: 66.399 ms

Loss rate: 4.32%

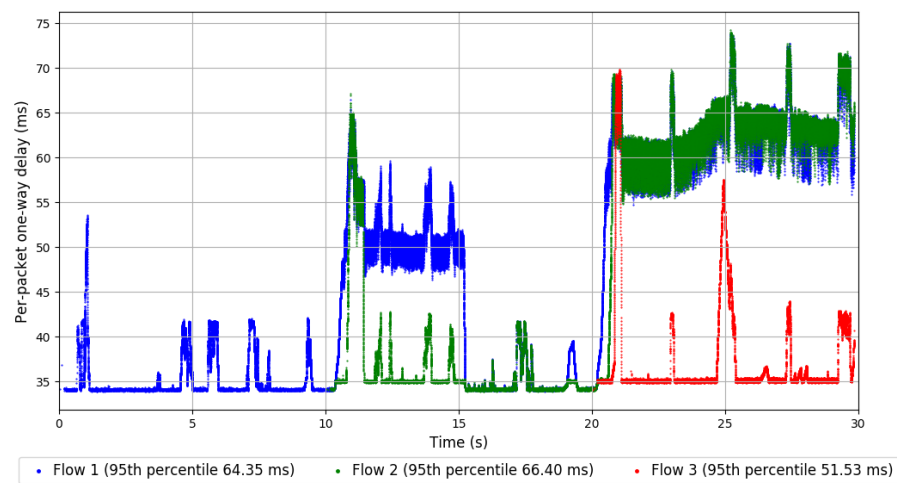
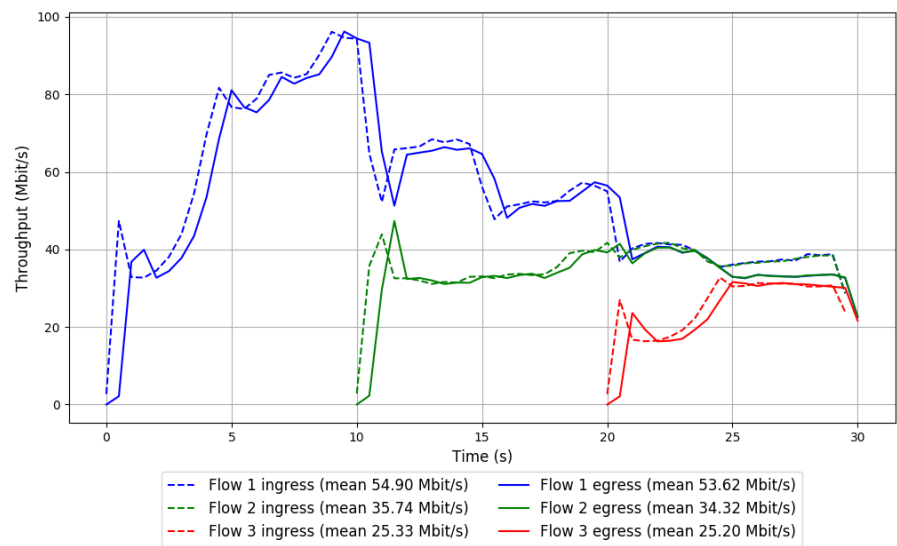
-- Flow 3:

Average throughput: 25.20 Mbit/s

95th percentile per-packet one-way delay: 51.534 ms

Loss rate: 1.20%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-07-10 21:24:58

End at: 2018-07-10 21:25:28

Local clock offset: 0.047 ms

Remote clock offset: 3.081 ms

Below is generated by plot.py at 2018-07-11 00:37:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.11 Mbit/s

95th percentile per-packet one-way delay: 57.115 ms

Loss rate: 1.61%

-- Flow 1:

Average throughput: 69.45 Mbit/s

95th percentile per-packet one-way delay: 57.311 ms

Loss rate: 1.73%

-- Flow 2:

Average throughput: 7.02 Mbit/s

95th percentile per-packet one-way delay: 40.857 ms

Loss rate: 0.65%

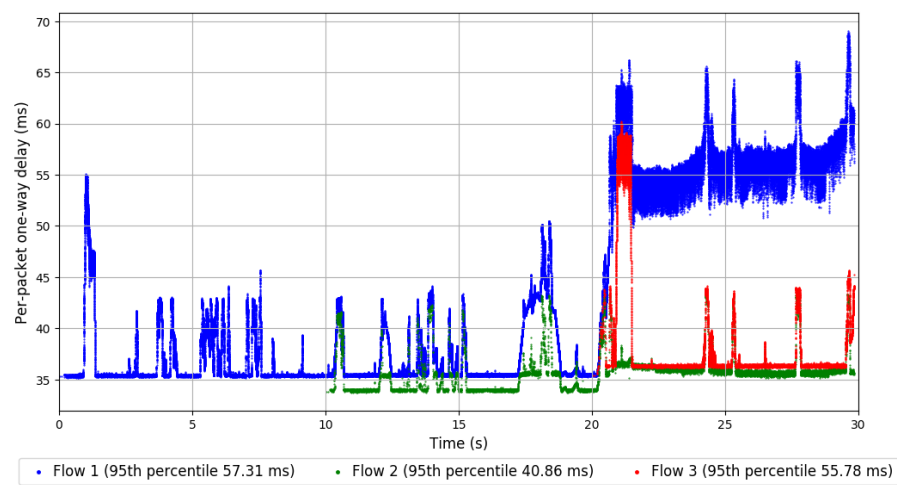
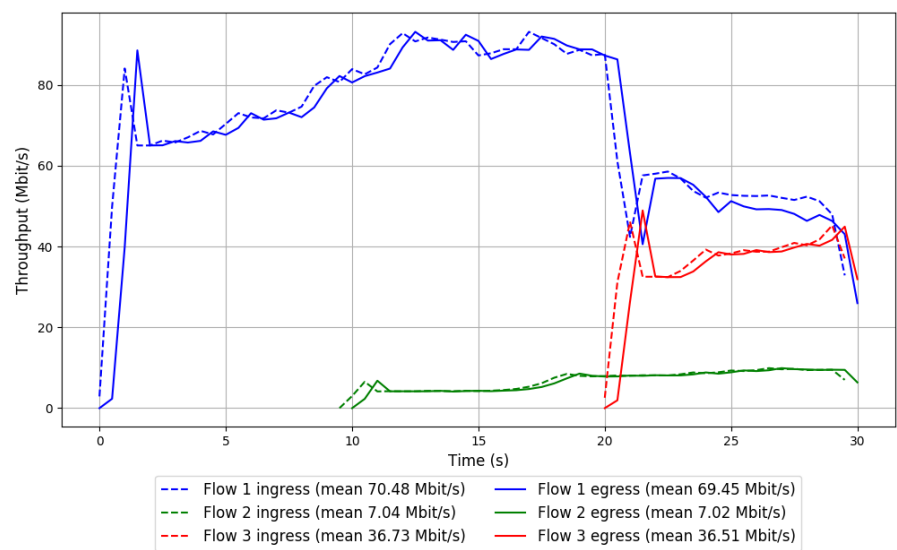
-- Flow 3:

Average throughput: 36.51 Mbit/s

95th percentile per-packet one-way delay: 55.778 ms

Loss rate: 1.31%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-07-10 21:49:15

End at: 2018-07-10 21:49:45

Local clock offset: 0.079 ms

Remote clock offset: 3.572 ms

Below is generated by plot.py at 2018-07-11 00:37:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.53 Mbit/s

95th percentile per-packet one-way delay: 67.944 ms

Loss rate: 3.77%

-- Flow 1:

Average throughput: 65.98 Mbit/s

95th percentile per-packet one-way delay: 57.069 ms

Loss rate: 3.24%

-- Flow 2:

Average throughput: 28.65 Mbit/s

95th percentile per-packet one-way delay: 74.688 ms

Loss rate: 6.03%

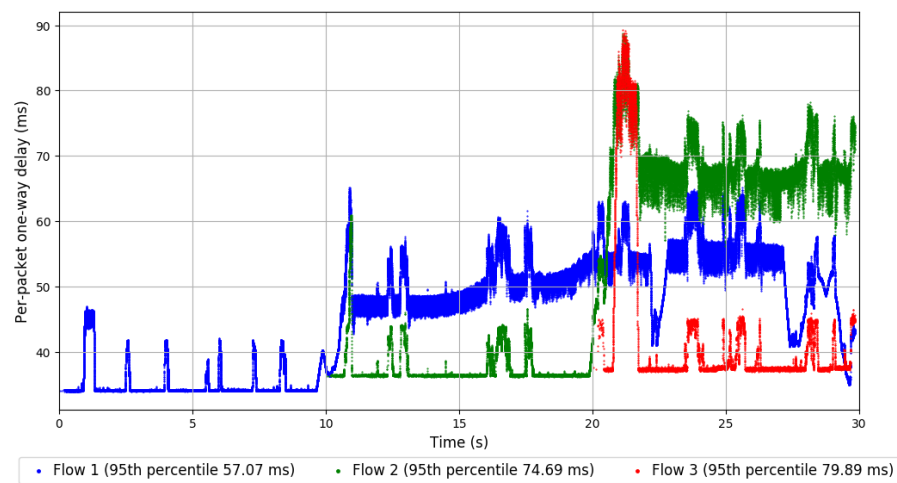
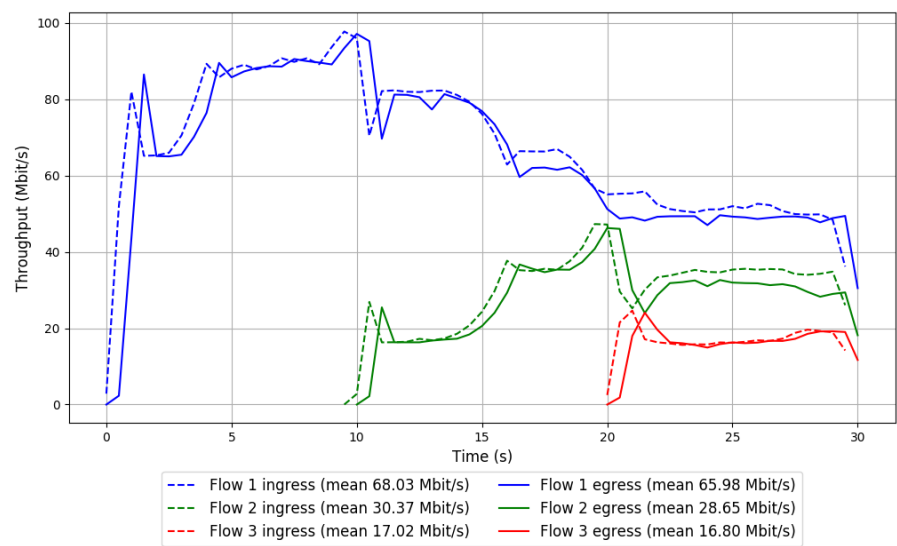
-- Flow 3:

Average throughput: 16.80 Mbit/s

95th percentile per-packet one-way delay: 79.894 ms

Loss rate: 2.00%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-07-10 22:13:38

End at: 2018-07-10 22:14:08

Local clock offset: -0.2 ms

Remote clock offset: 5.355 ms

Below is generated by plot.py at 2018-07-11 00:37:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.86 Mbit/s

95th percentile per-packet one-way delay: 65.716 ms

Loss rate: 5.43%

-- Flow 1:

Average throughput: 55.85 Mbit/s

95th percentile per-packet one-way delay: 62.750 ms

Loss rate: 6.52%

-- Flow 2:

Average throughput: 37.71 Mbit/s

95th percentile per-packet one-way delay: 66.650 ms

Loss rate: 4.06%

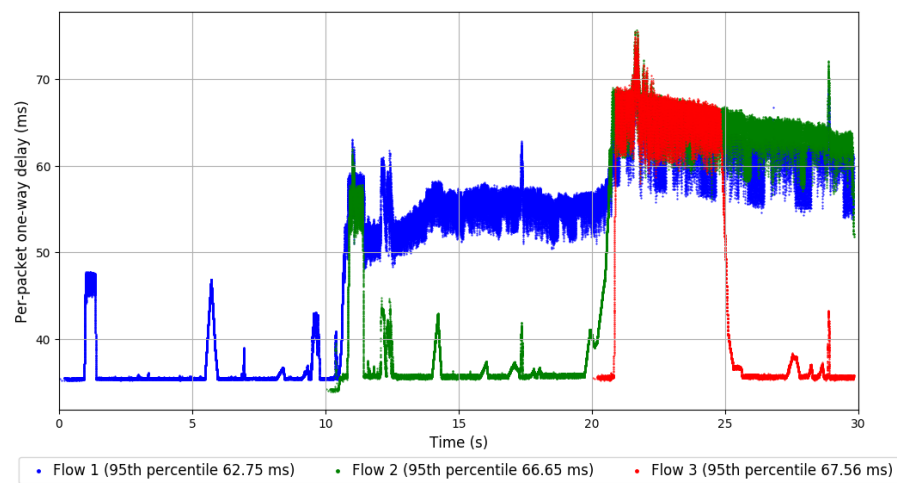
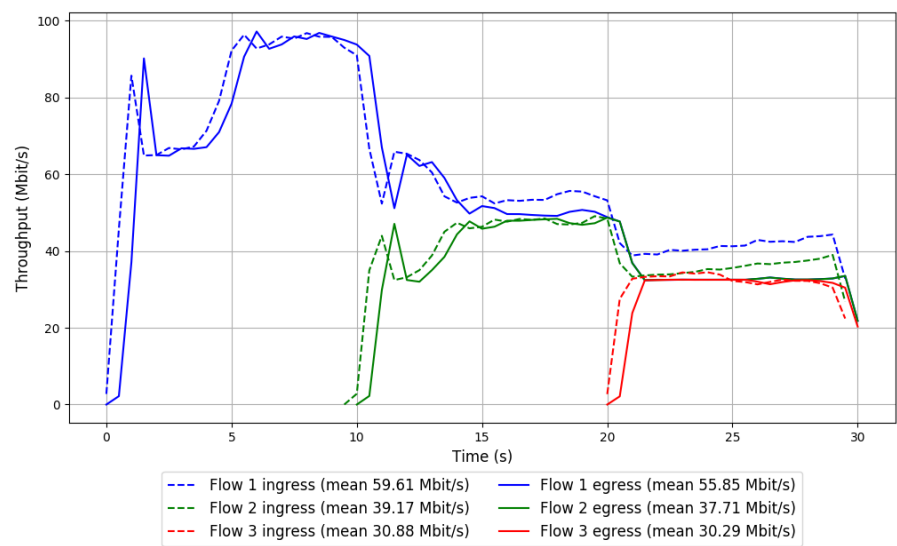
-- Flow 3:

Average throughput: 30.29 Mbit/s

95th percentile per-packet one-way delay: 67.562 ms

Loss rate: 2.60%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-07-10 22:37:48

End at: 2018-07-10 22:38:18

Local clock offset: -0.065 ms

Remote clock offset: 7.551 ms

Below is generated by plot.py at 2018-07-11 00:37:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 54.23 Mbit/s

95th percentile per-packet one-way delay: 54.213 ms

Loss rate: 1.59%

-- Flow 1:

Average throughput: 20.44 Mbit/s

95th percentile per-packet one-way delay: 41.712 ms

Loss rate: 1.17%

-- Flow 2:

Average throughput: 35.03 Mbit/s

95th percentile per-packet one-way delay: 49.907 ms

Loss rate: 1.55%

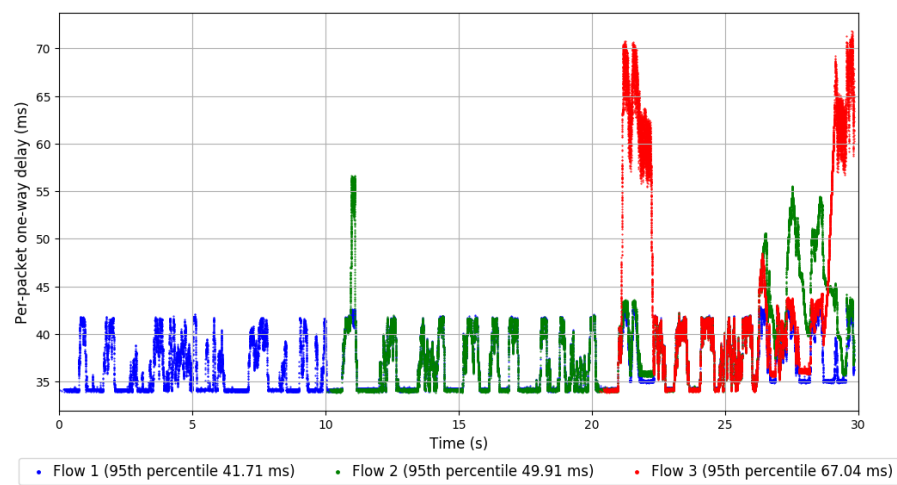
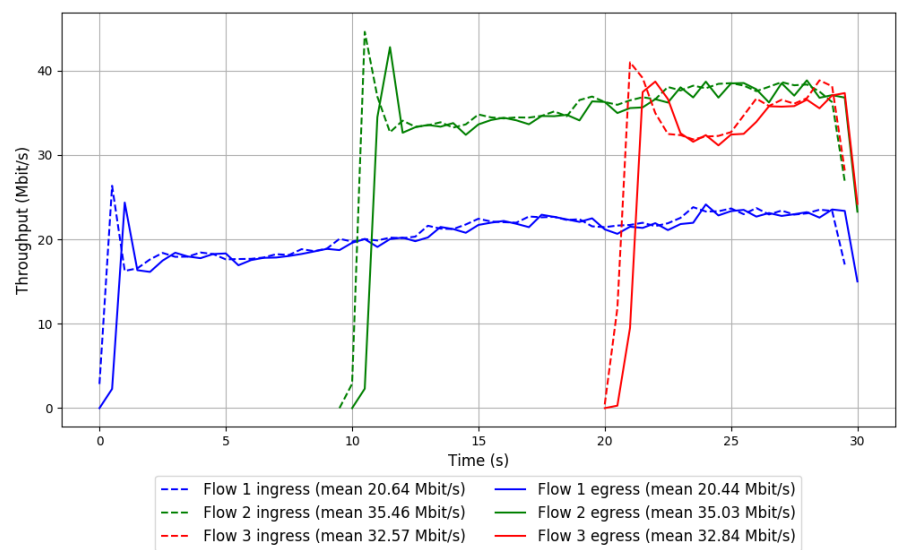
-- Flow 3:

Average throughput: 32.84 Mbit/s

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

Loss rate: 2.46%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

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

End at: 2018-07-10 23:03:37

Local clock offset: -0.251 ms

Remote clock offset: 2.474 ms

Below is generated by plot.py at 2018-07-11 00:37:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.06 Mbit/s

95th percentile per-packet one-way delay: 63.138 ms

Loss rate: 2.76%

-- Flow 1:

Average throughput: 44.17 Mbit/s

95th percentile per-packet one-way delay: 63.264 ms

Loss rate: 3.67%

-- Flow 2:

Average throughput: 36.82 Mbit/s

95th percentile per-packet one-way delay: 63.194 ms

Loss rate: 1.42%

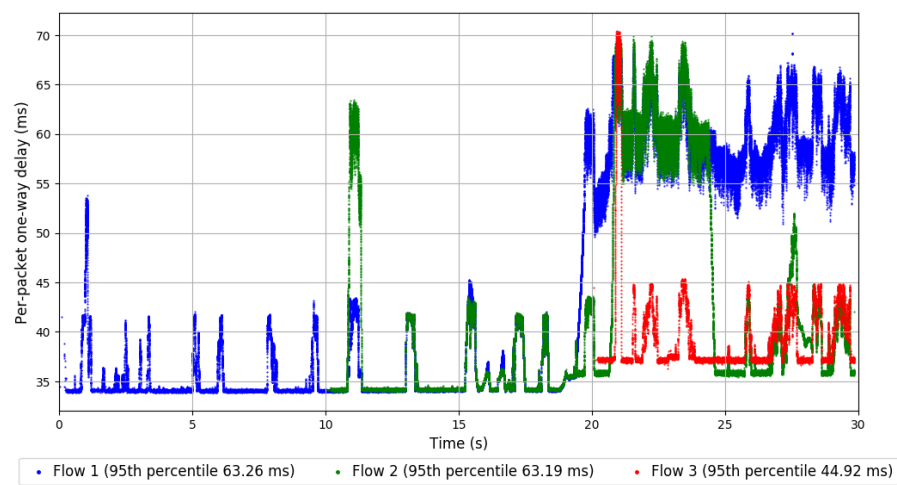
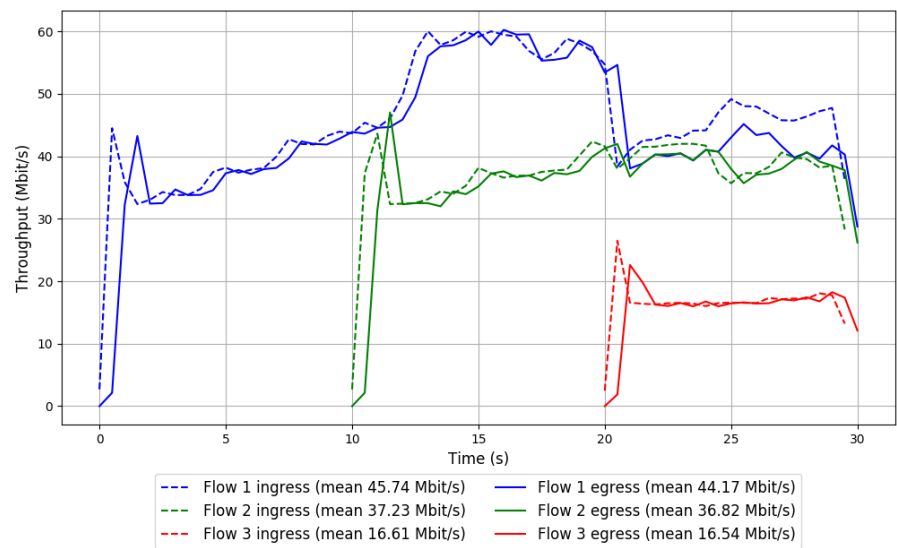
-- Flow 3:

Average throughput: 16.54 Mbit/s

95th percentile per-packet one-way delay: 44.919 ms

Loss rate: 1.21%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-07-10 23:28:33

End at: 2018-07-10 23:29:03

Local clock offset: -0.923 ms

Remote clock offset: 1.787 ms

Below is generated by plot.py at 2018-07-11 00:37:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.47 Mbit/s

95th percentile per-packet one-way delay: 56.299 ms

Loss rate: 1.48%

-- Flow 1:

Average throughput: 59.66 Mbit/s

95th percentile per-packet one-way delay: 56.737 ms

Loss rate: 1.52%

-- Flow 2:

Average throughput: 29.85 Mbit/s

95th percentile per-packet one-way delay: 43.891 ms

Loss rate: 1.30%

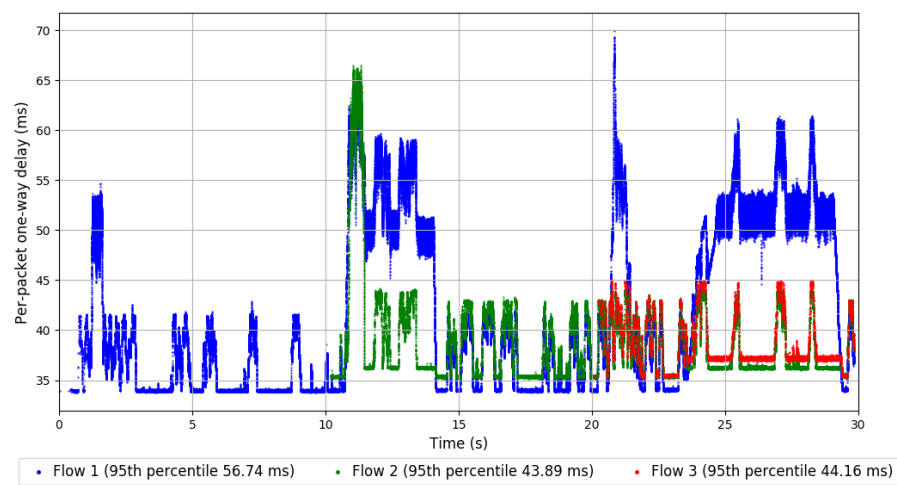
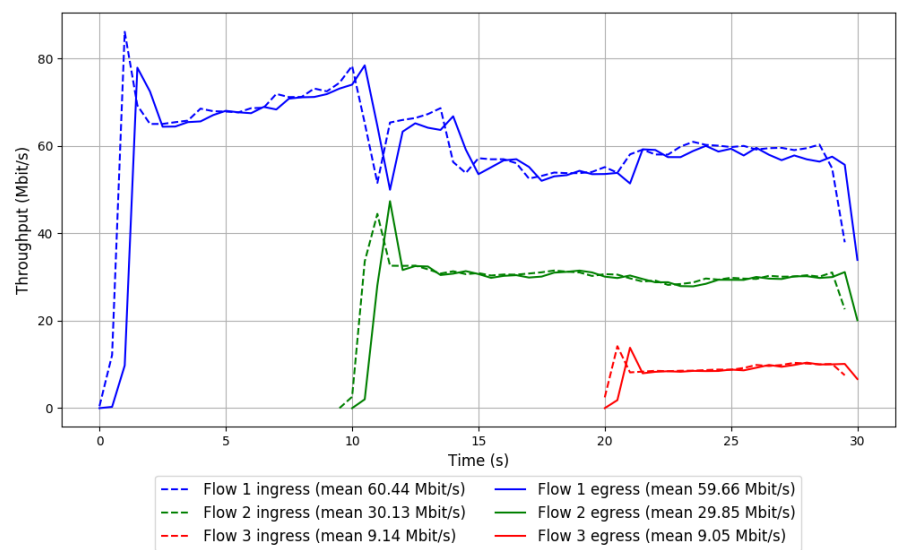
-- Flow 3:

Average throughput: 9.05 Mbit/s

95th percentile per-packet one-way delay: 44.161 ms

Loss rate: 1.71%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-07-10 23:54:51

End at: 2018-07-10 23:55:21

Local clock offset: -0.574 ms

Remote clock offset: 1.902 ms

Below is generated by plot.py at 2018-07-11 00:38:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.73 Mbit/s

95th percentile per-packet one-way delay: 64.226 ms

Loss rate: 3.75%

-- Flow 1:

Average throughput: 55.00 Mbit/s

95th percentile per-packet one-way delay: 65.365 ms

Loss rate: 5.07%

-- Flow 2:

Average throughput: 38.68 Mbit/s

95th percentile per-packet one-way delay: 42.550 ms

Loss rate: 1.20%

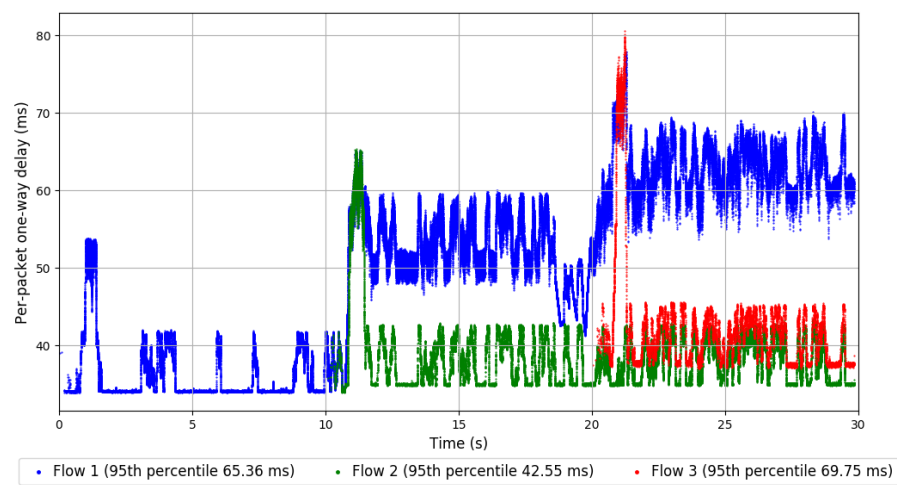
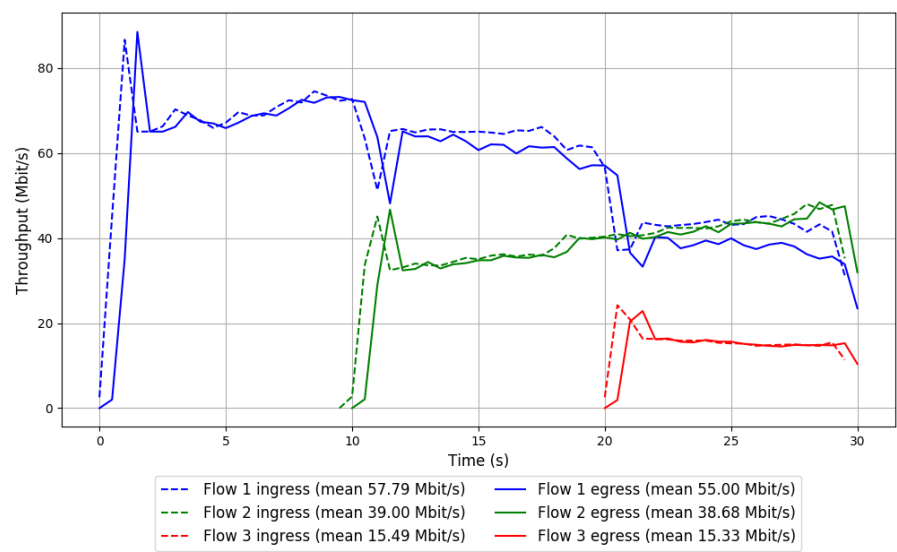
-- Flow 3:

Average throughput: 15.33 Mbit/s

95th percentile per-packet one-way delay: 69.748 ms

Loss rate: 1.74%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-07-11 00:20:23

End at: 2018-07-11 00:20:53

Local clock offset: 0.436 ms

Remote clock offset: 2.881 ms

Below is generated by plot.py at 2018-07-11 00:38:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.99 Mbit/s

95th percentile per-packet one-way delay: 71.818 ms

Loss rate: 3.08%

-- Flow 1:

Average throughput: 53.49 Mbit/s

95th percentile per-packet one-way delay: 71.466 ms

Loss rate: 3.23%

-- Flow 2:

Average throughput: 31.74 Mbit/s

95th percentile per-packet one-way delay: 73.360 ms

Loss rate: 3.20%

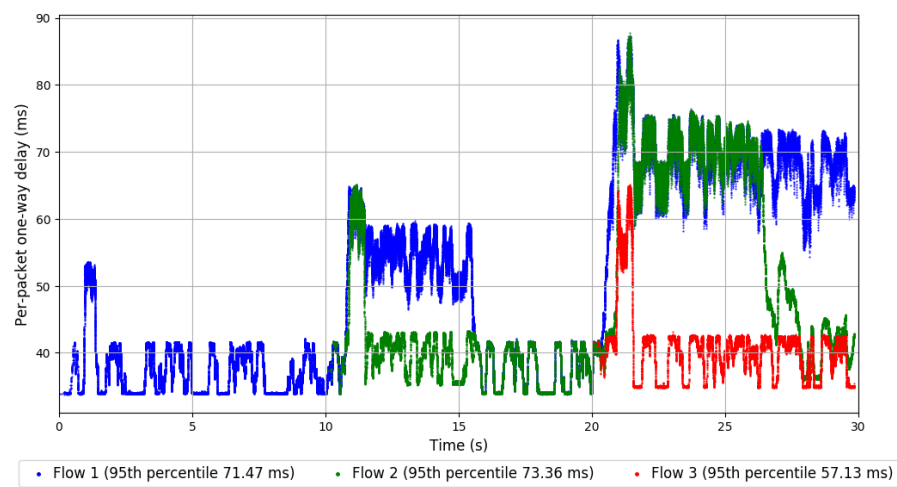
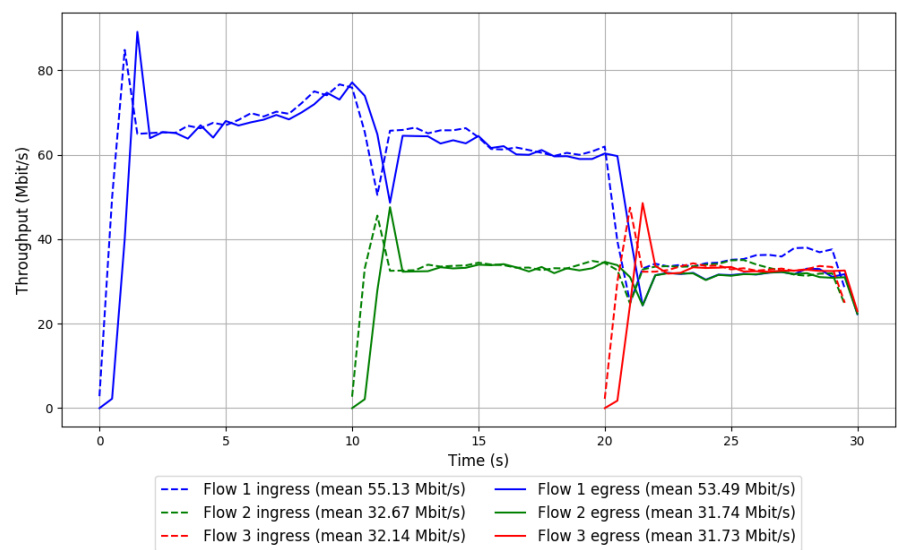
-- Flow 3:

Average throughput: 31.73 Mbit/s

95th percentile per-packet one-way delay: 57.134 ms

Loss rate: 2.06%

Run 10: Report of PCC-Allegro — Data Link

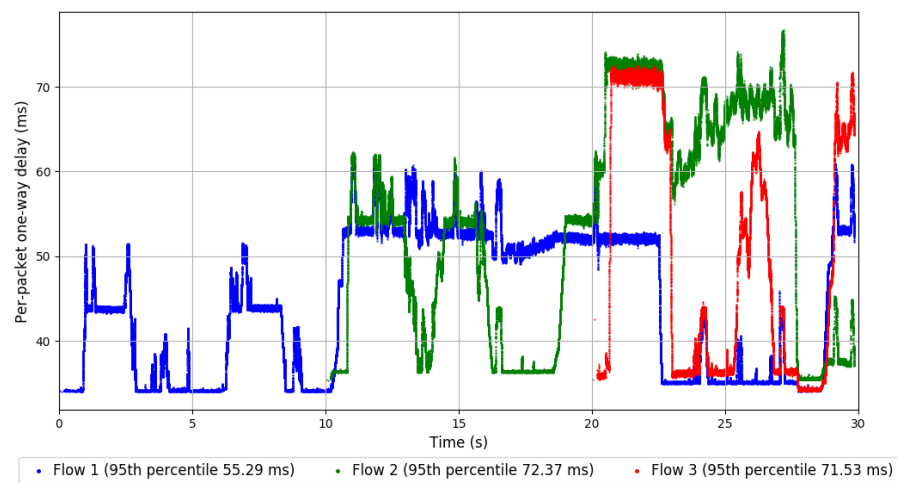
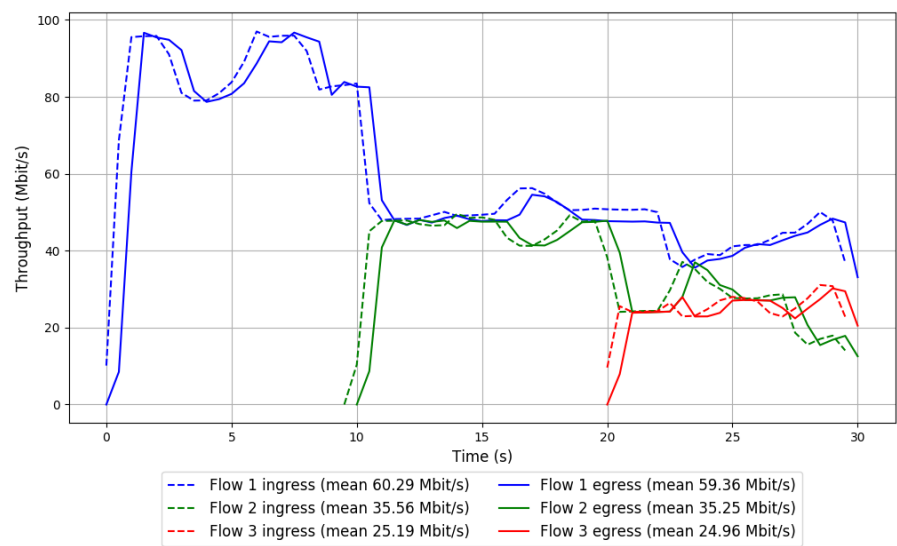


```
Run 1: Statistics of PCC-Expr

Start at: 2018-07-10 20:20:16
End at: 2018-07-10 20:20:46
Local clock offset: 0.228 ms
Remote clock offset: 2.746 ms

# Below is generated by plot.py at 2018-07-11 00:39:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.01 Mbit/s
95th percentile per-packet one-way delay: 68.491 ms
Loss rate: 1.64%
-- Flow 1:
Average throughput: 59.36 Mbit/s
95th percentile per-packet one-way delay: 55.293 ms
Loss rate: 1.79%
-- Flow 2:
Average throughput: 35.25 Mbit/s
95th percentile per-packet one-way delay: 72.374 ms
Loss rate: 1.23%
-- Flow 3:
Average throughput: 24.96 Mbit/s
95th percentile per-packet one-way delay: 71.526 ms
Loss rate: 1.70%
```

Run 1: Report of PCC-Expr — Data Link

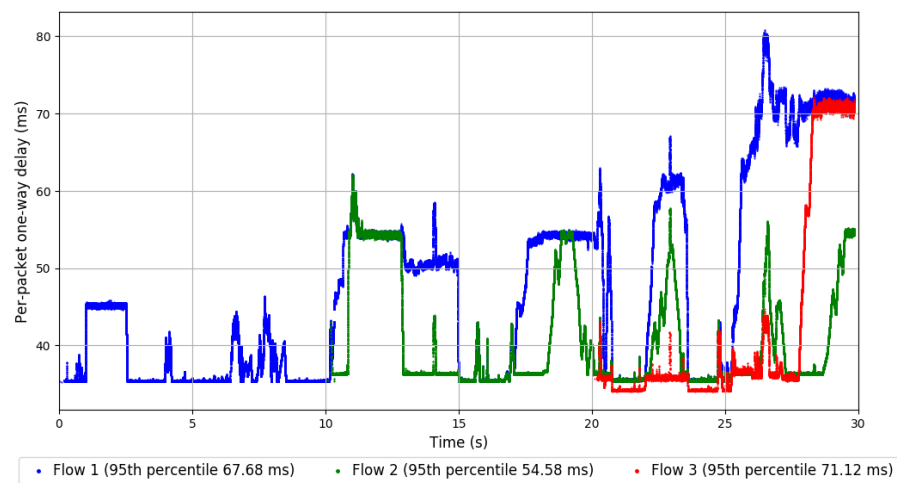
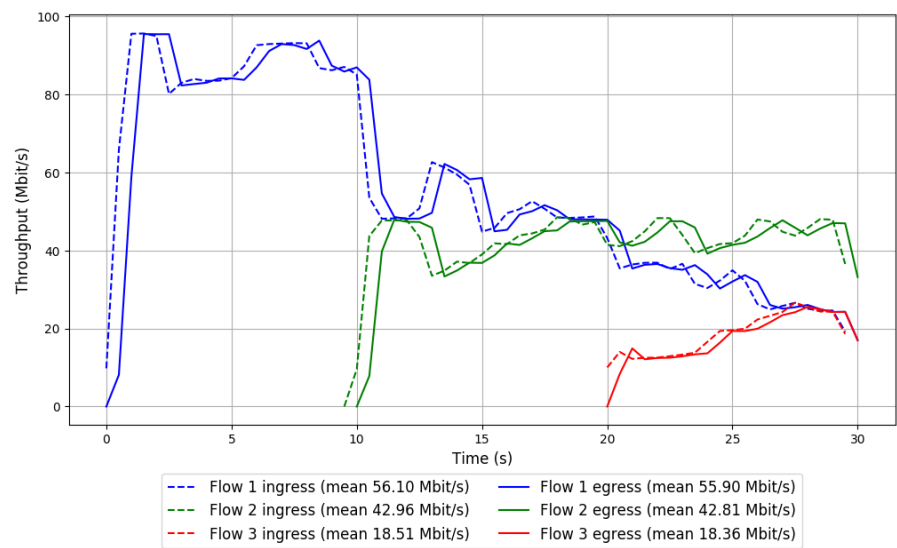


```
Run 2: Statistics of PCC-Expr

Start at: 2018-07-10 20:44:05
End at: 2018-07-10 20:44:35
Local clock offset: 0.11 ms
Remote clock offset: 3.25 ms

# Below is generated by plot.py at 2018-07-11 00:39:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.40 Mbit/s
95th percentile per-packet one-way delay: 65.290 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 55.90 Mbit/s
95th percentile per-packet one-way delay: 67.683 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 42.81 Mbit/s
95th percentile per-packet one-way delay: 54.578 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 18.36 Mbit/s
95th percentile per-packet one-way delay: 71.121 ms
Loss rate: 1.51%
```

Run 2: Report of PCC-Expr — Data Link

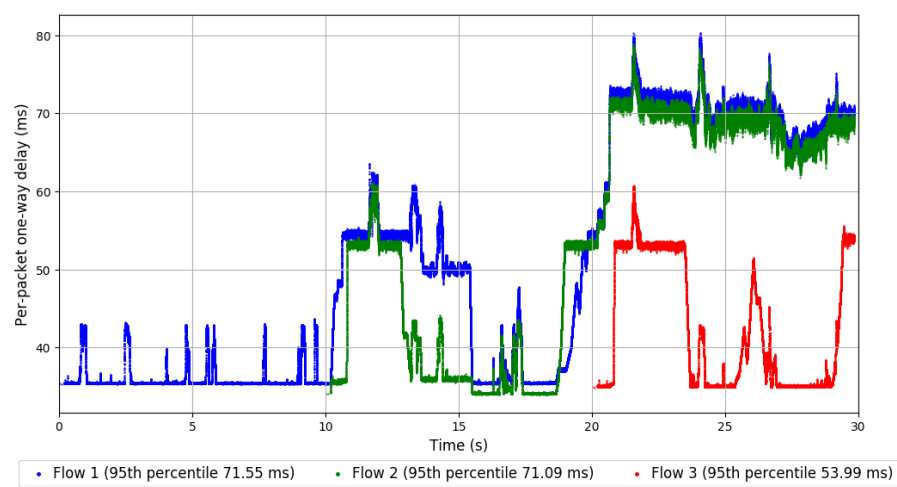
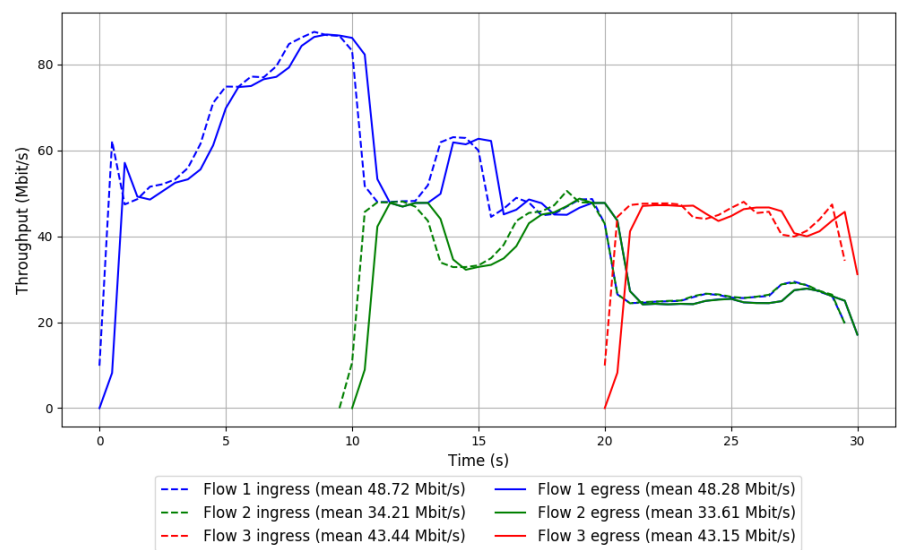


```
Run 3: Statistics of PCC-Expr

Start at: 2018-07-10 21:08:16
End at: 2018-07-10 21:08:46
Local clock offset: 0.031 ms
Remote clock offset: 3.021 ms

# Below is generated by plot.py at 2018-07-11 00:39:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.82 Mbit/s
95th percentile per-packet one-way delay: 71.057 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 48.28 Mbit/s
95th percentile per-packet one-way delay: 71.551 ms
Loss rate: 1.14%
-- Flow 2:
Average throughput: 33.61 Mbit/s
95th percentile per-packet one-way delay: 71.091 ms
Loss rate: 2.09%
-- Flow 3:
Average throughput: 43.15 Mbit/s
95th percentile per-packet one-way delay: 53.988 ms
Loss rate: 1.38%
```

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-07-10 21:31:48

End at: 2018-07-10 21:32:18

Local clock offset: 0.034 ms

Remote clock offset: 3.161 ms

Below is generated by plot.py at 2018-07-11 00:39:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.12 Mbit/s

95th percentile per-packet one-way delay: 62.867 ms

Loss rate: 1.56%

-- Flow 1:

Average throughput: 54.95 Mbit/s

95th percentile per-packet one-way delay: 61.817 ms

Loss rate: 1.76%

-- Flow 2:

Average throughput: 28.71 Mbit/s

95th percentile per-packet one-way delay: 64.824 ms

Loss rate: 1.20%

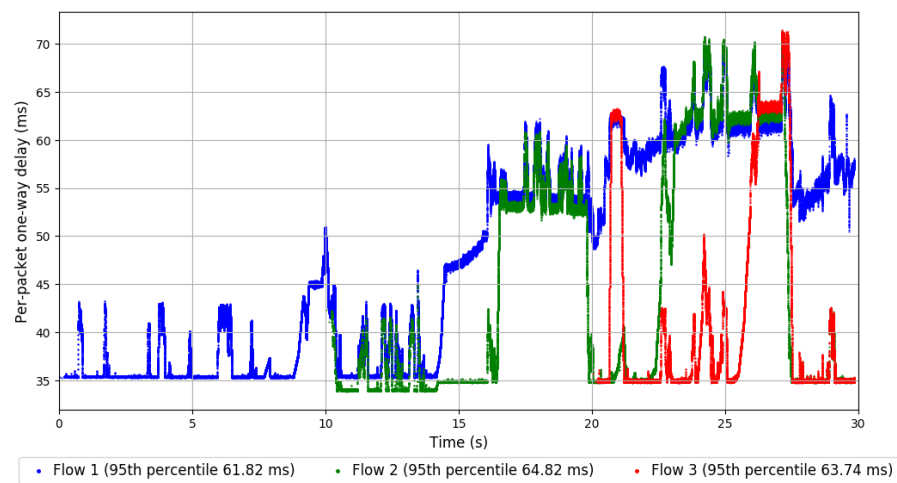
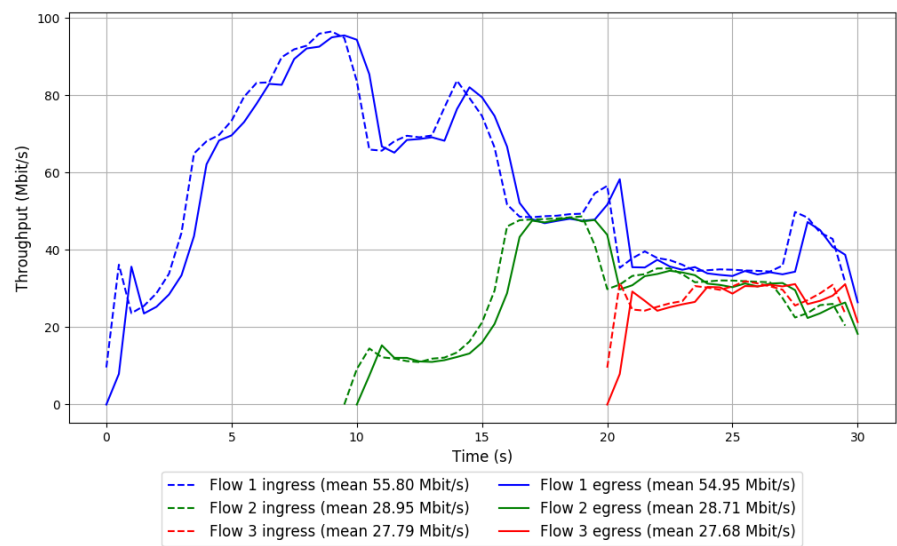
-- Flow 3:

Average throughput: 27.68 Mbit/s

95th percentile per-packet one-way delay: 63.743 ms

Loss rate: 1.11%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-07-10 21:56:35

End at: 2018-07-10 21:57:05

Local clock offset: -0.103 ms

Remote clock offset: 3.678 ms

Below is generated by plot.py at 2018-07-11 00:39:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.28 Mbit/s

95th percentile per-packet one-way delay: 62.145 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 55.25 Mbit/s

95th percentile per-packet one-way delay: 60.890 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 37.54 Mbit/s

95th percentile per-packet one-way delay: 62.337 ms

Loss rate: 0.63%

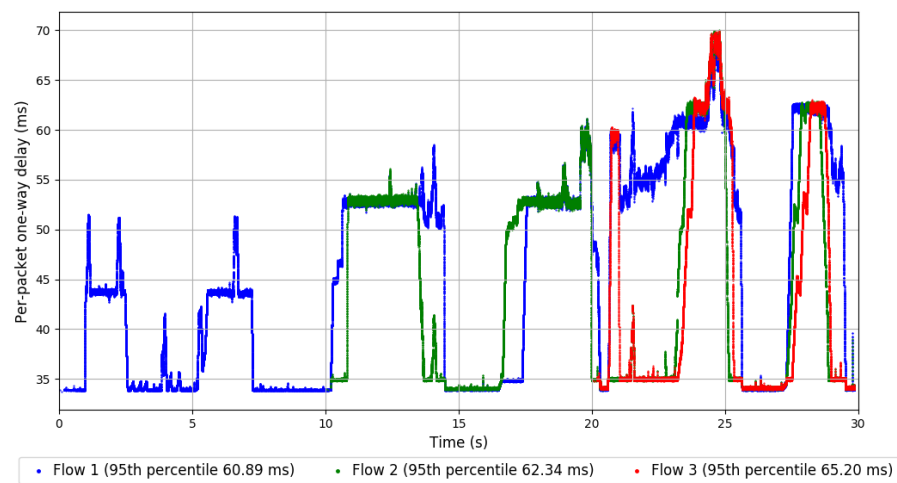
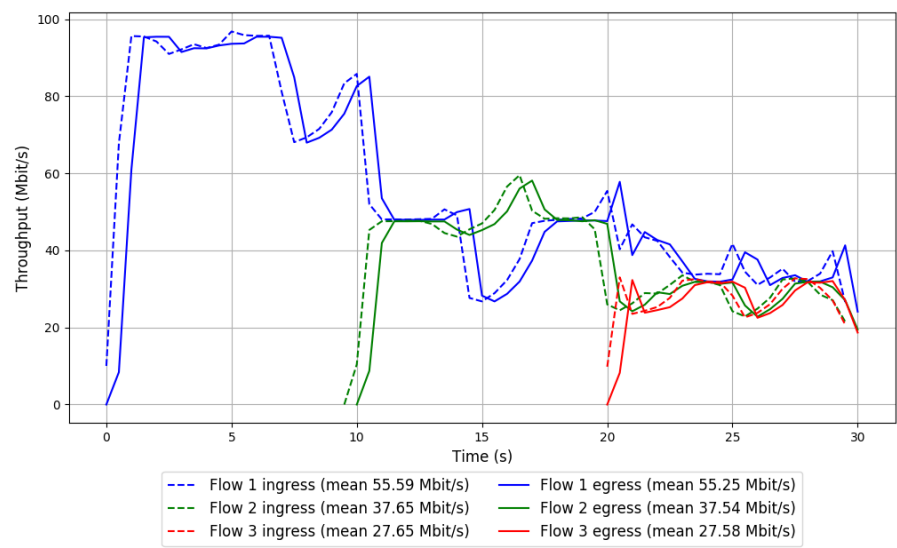
-- Flow 3:

Average throughput: 27.58 Mbit/s

95th percentile per-packet one-way delay: 65.200 ms

Loss rate: 0.95%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-07-10 22:20:35

End at: 2018-07-10 22:21:05

Local clock offset: -0.112 ms

Remote clock offset: 6.236 ms

Below is generated by plot.py at 2018-07-11 00:40:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.21 Mbit/s

95th percentile per-packet one-way delay: 71.037 ms

Loss rate: 1.37%

-- Flow 1:

Average throughput: 54.00 Mbit/s

95th percentile per-packet one-way delay: 71.539 ms

Loss rate: 1.11%

-- Flow 2:

Average throughput: 34.40 Mbit/s

95th percentile per-packet one-way delay: 70.965 ms

Loss rate: 1.65%

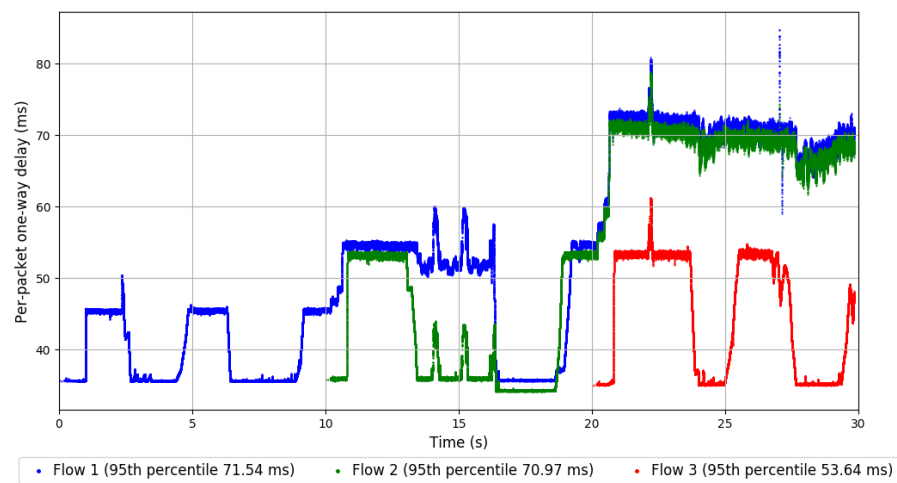
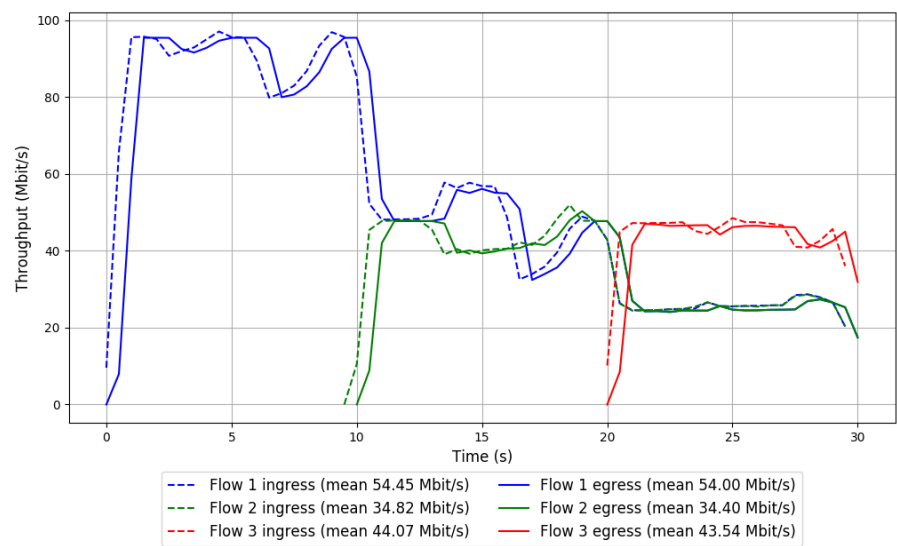
-- Flow 3:

Average throughput: 43.54 Mbit/s

95th percentile per-packet one-way delay: 53.641 ms

Loss rate: 1.88%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-07-10 22:45:03

End at: 2018-07-10 22:45:33

Local clock offset: -0.184 ms

Remote clock offset: 5.975 ms

Below is generated by plot.py at 2018-07-11 00:40:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.61 Mbit/s

95th percentile per-packet one-way delay: 58.501 ms

Loss rate: 1.41%

-- Flow 1:

Average throughput: 49.73 Mbit/s

95th percentile per-packet one-way delay: 57.489 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 38.11 Mbit/s

95th percentile per-packet one-way delay: 59.562 ms

Loss rate: 2.65%

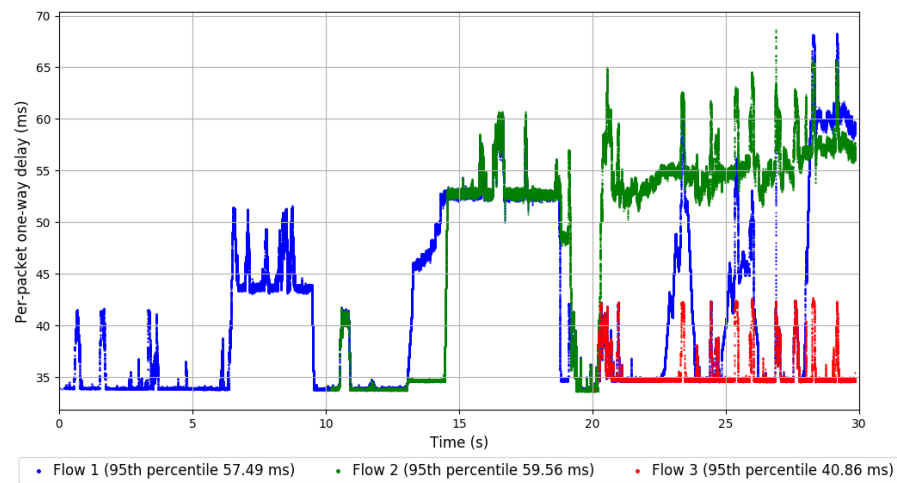
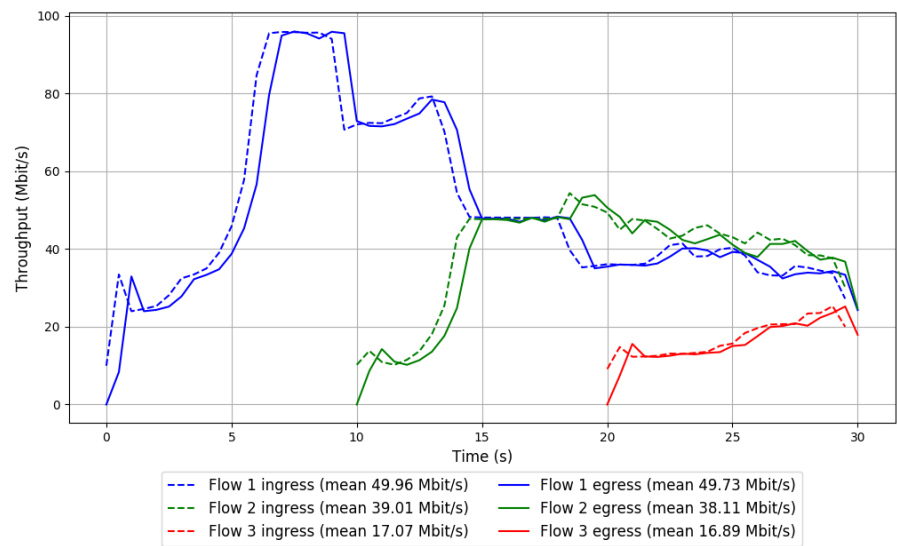
-- Flow 3:

Average throughput: 16.89 Mbit/s

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

Loss rate: 1.75%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-07-10 23:10:25

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

Local clock offset: -0.488 ms

Remote clock offset: 2.051 ms

Below is generated by plot.py at 2018-07-11 00:40:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.16 Mbit/s

95th percentile per-packet one-way delay: 59.483 ms

Loss rate: 1.17%

-- Flow 1:

Average throughput: 44.66 Mbit/s

95th percentile per-packet one-way delay: 60.714 ms

Loss rate: 1.00%

-- Flow 2:

Average throughput: 45.16 Mbit/s

95th percentile per-packet one-way delay: 57.429 ms

Loss rate: 1.41%

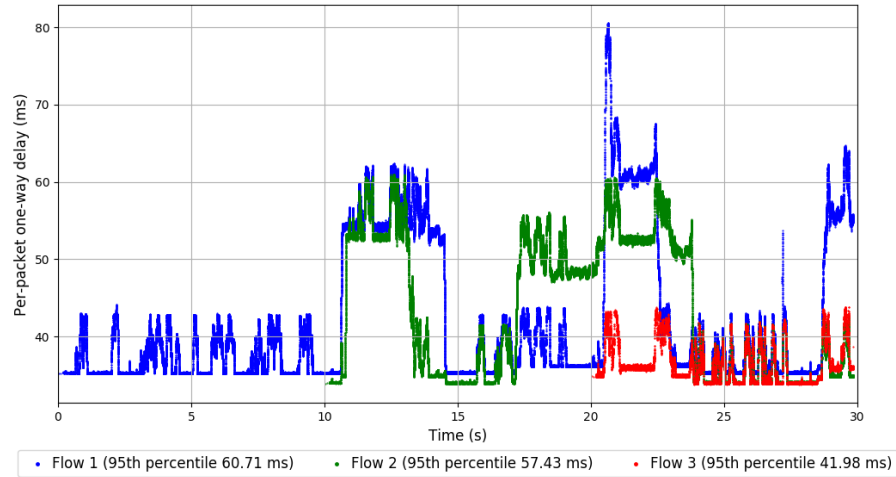
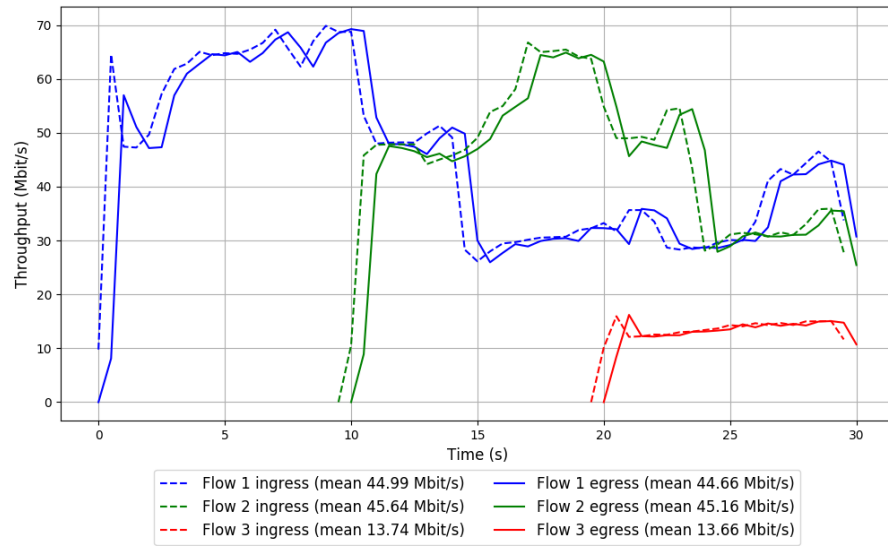
-- Flow 3:

Average throughput: 13.66 Mbit/s

95th percentile per-packet one-way delay: 41.985 ms

Loss rate: 1.27%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-07-10 23:35:55

End at: 2018-07-10 23:36:25

Local clock offset: -1.081 ms

Remote clock offset: 1.6 ms

Below is generated by plot.py at 2018-07-11 00:41:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.88 Mbit/s

95th percentile per-packet one-way delay: 60.063 ms

Loss rate: 1.30%

-- Flow 1:

Average throughput: 45.34 Mbit/s

95th percentile per-packet one-way delay: 60.603 ms

Loss rate: 1.27%

-- Flow 2:

Average throughput: 43.35 Mbit/s

95th percentile per-packet one-way delay: 60.120 ms

Loss rate: 1.23%

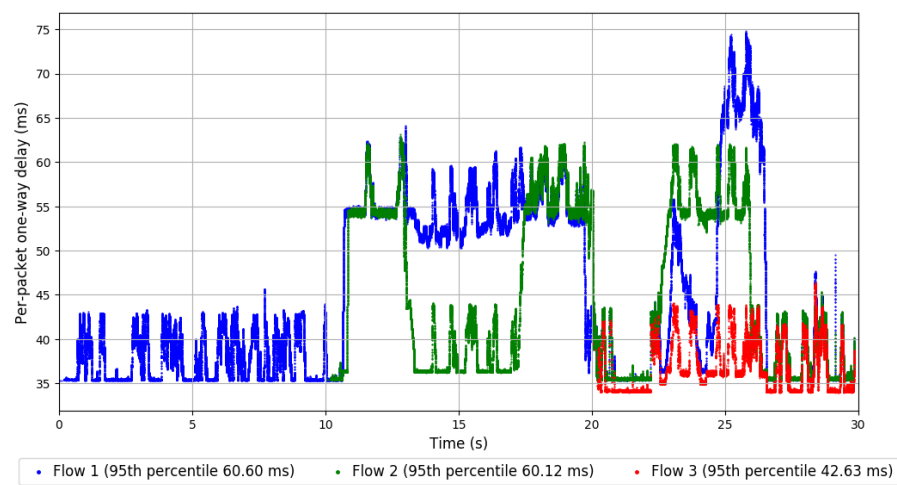
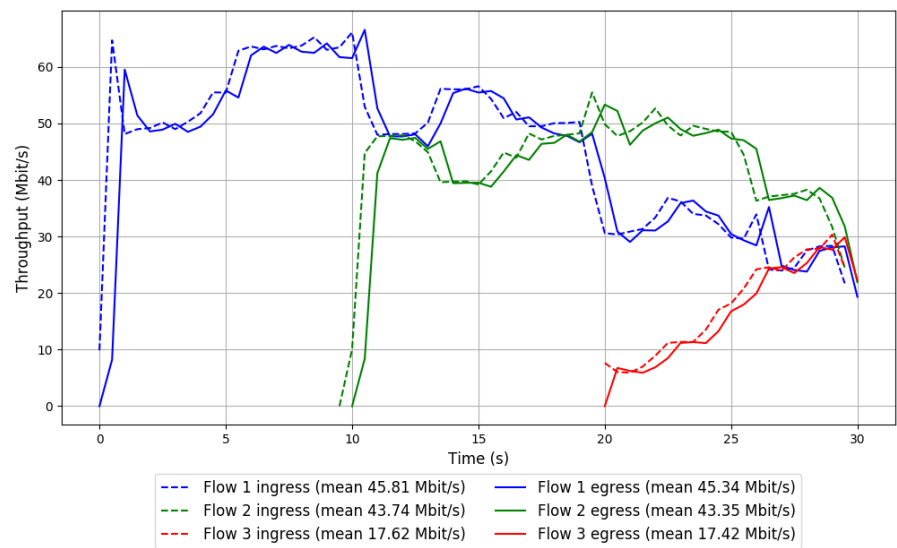
-- Flow 3:

Average throughput: 17.42 Mbit/s

95th percentile per-packet one-way delay: 42.631 ms

Loss rate: 1.92%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-07-11 00:02:06

End at: 2018-07-11 00:02:36

Local clock offset: -0.358 ms

Remote clock offset: 2.394 ms

Below is generated by plot.py at 2018-07-11 00:41:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 69.95 Mbit/s

95th percentile per-packet one-way delay: 61.864 ms

Loss rate: 1.02%

-- Flow 1:

Average throughput: 35.43 Mbit/s

95th percentile per-packet one-way delay: 60.371 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 38.96 Mbit/s

95th percentile per-packet one-way delay: 64.016 ms

Loss rate: 1.17%

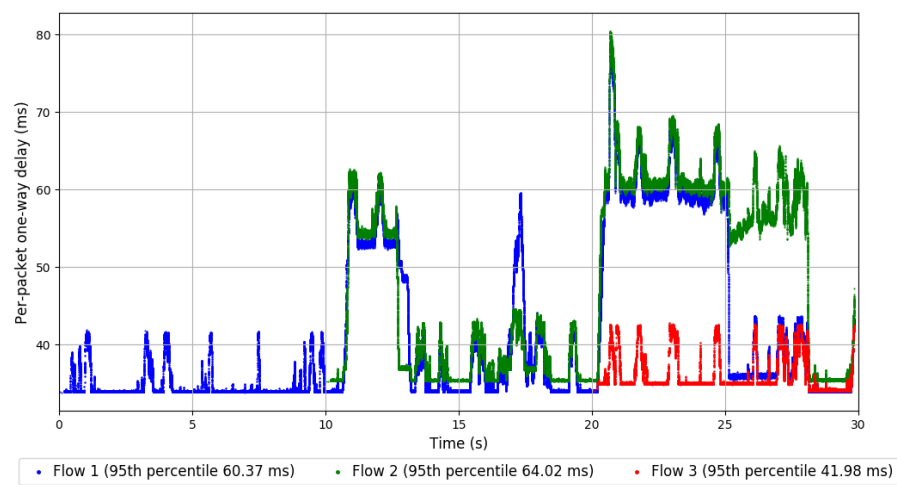
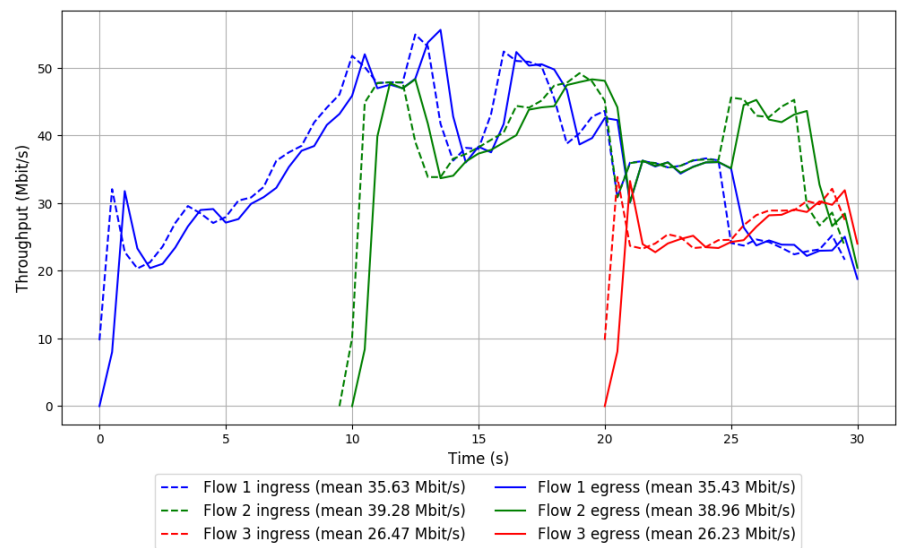
-- Flow 3:

Average throughput: 26.23 Mbit/s

95th percentile per-packet one-way delay: 41.983 ms

Loss rate: 1.58%

Run 10: Report of PCC-Expr — Data Link

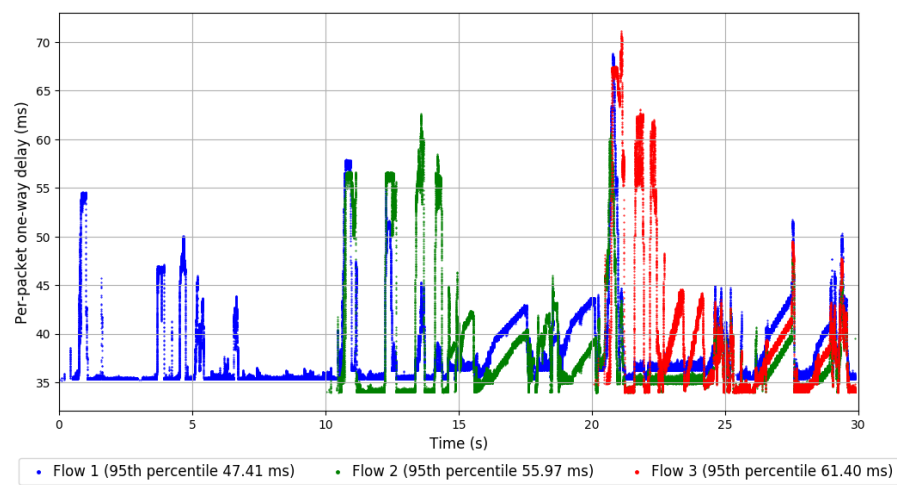
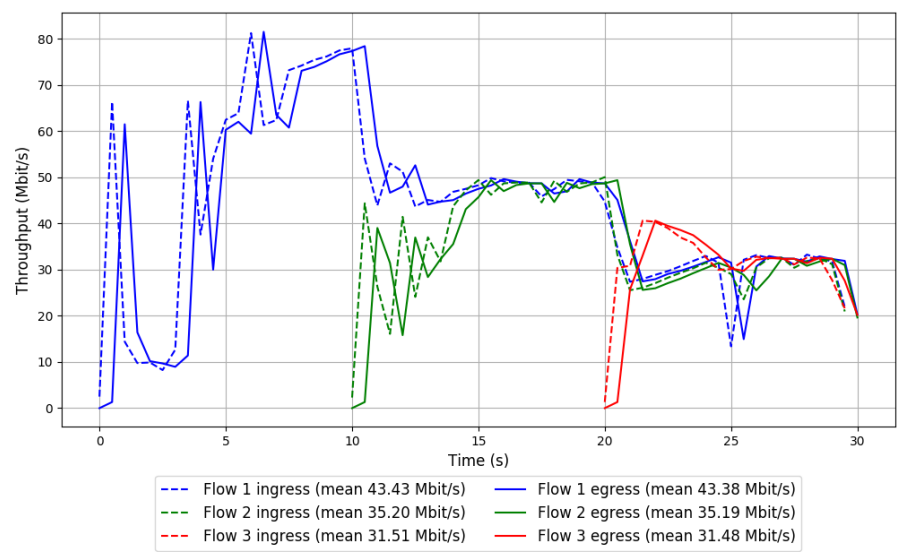


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-07-10 20:16:07
End at: 2018-07-10 20:16:37
Local clock offset: 0.274 ms
Remote clock offset: 2.734 ms

# Below is generated by plot.py at 2018-07-11 00:41:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.12 Mbit/s
95th percentile per-packet one-way delay: 54.269 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 43.38 Mbit/s
95th percentile per-packet one-way delay: 47.405 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 35.19 Mbit/s
95th percentile per-packet one-way delay: 55.974 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 31.48 Mbit/s
95th percentile per-packet one-way delay: 61.396 ms
Loss rate: 0.80%
```

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-07-10 20:39:58

End at: 2018-07-10 20:40:28

Local clock offset: 0.135 ms

Remote clock offset: 3.19 ms

Below is generated by plot.py at 2018-07-11 00:41:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.05 Mbit/s

95th percentile per-packet one-way delay: 51.443 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 38.75 Mbit/s

95th percentile per-packet one-way delay: 46.738 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 35.00 Mbit/s

95th percentile per-packet one-way delay: 55.634 ms

Loss rate: 0.49%

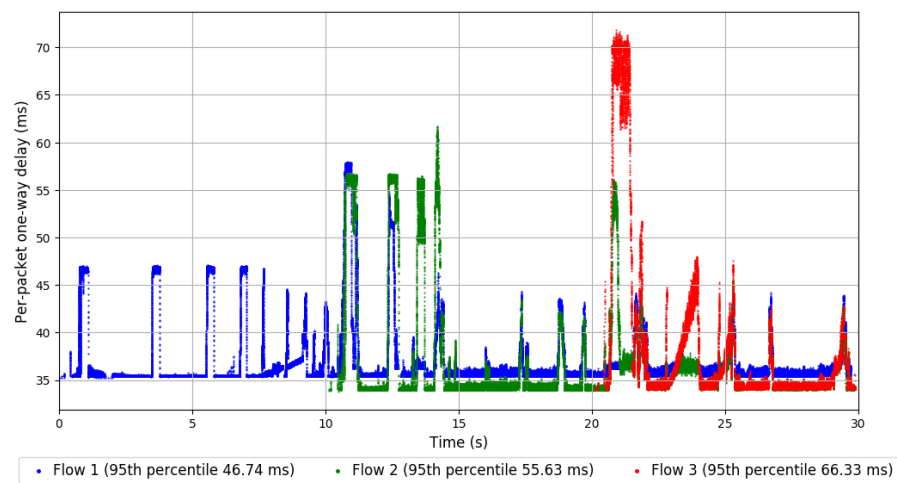
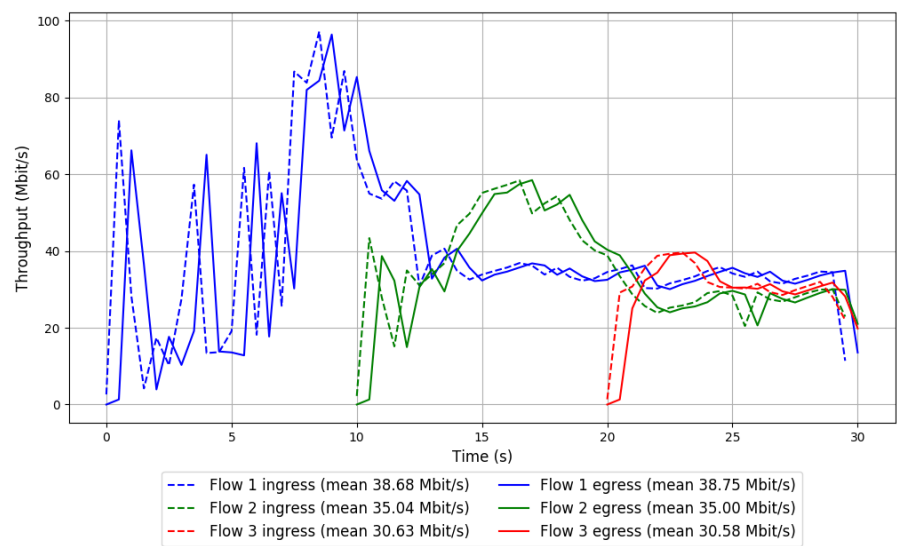
-- Flow 3:

Average throughput: 30.58 Mbit/s

95th percentile per-packet one-way delay: 66.332 ms

Loss rate: 0.85%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-07-10 21:04:16

End at: 2018-07-10 21:04:46

Local clock offset: 0.022 ms

Remote clock offset: 3.263 ms

Below is generated by plot.py at 2018-07-11 00:41:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.42 Mbit/s

95th percentile per-packet one-way delay: 46.948 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 46.44 Mbit/s

95th percentile per-packet one-way delay: 45.449 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 36.94 Mbit/s

95th percentile per-packet one-way delay: 55.560 ms

Loss rate: 0.58%

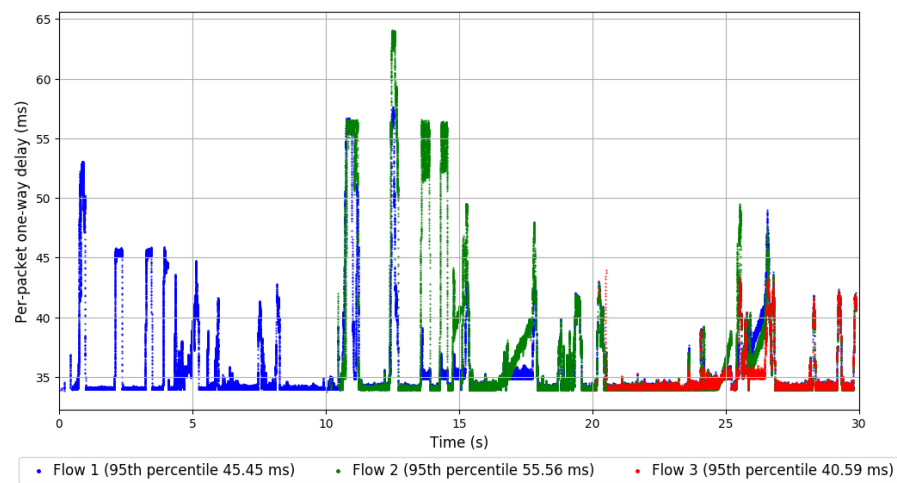
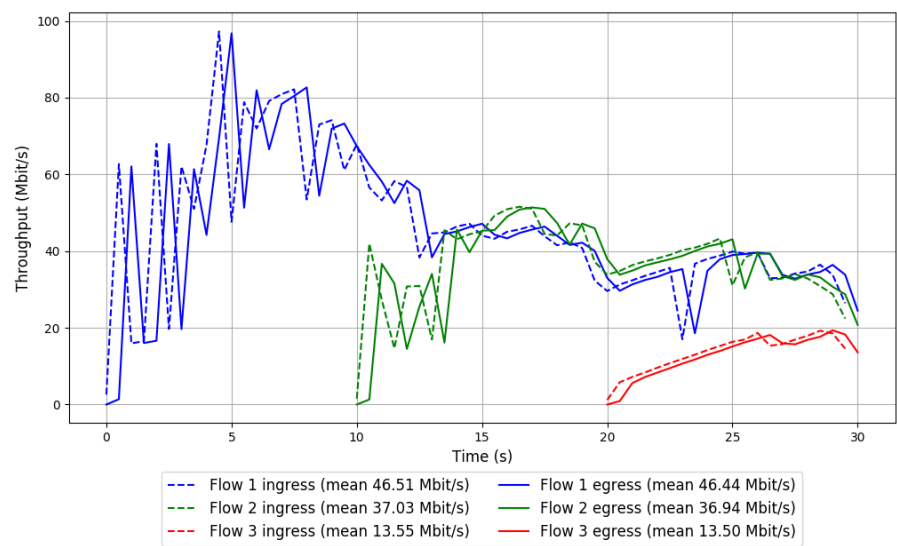
-- Flow 3:

Average throughput: 13.50 Mbit/s

95th percentile per-packet one-way delay: 40.588 ms

Loss rate: 1.04%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-07-10 21:27:48

End at: 2018-07-10 21:28:18

Local clock offset: 0.139 ms

Remote clock offset: 3.067 ms

Below is generated by plot.py at 2018-07-11 00:41:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.26 Mbit/s

95th percentile per-packet one-way delay: 53.524 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 37.41 Mbit/s

95th percentile per-packet one-way delay: 47.609 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 29.20 Mbit/s

95th percentile per-packet one-way delay: 56.183 ms

Loss rate: 0.54%

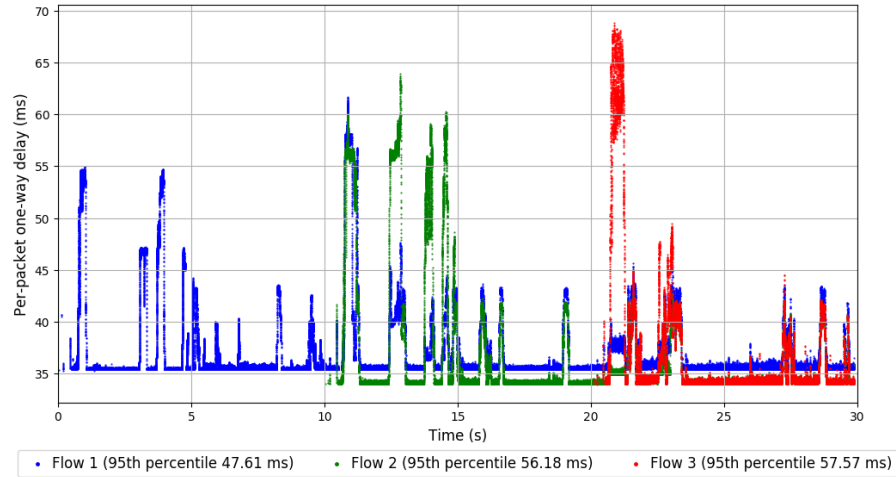
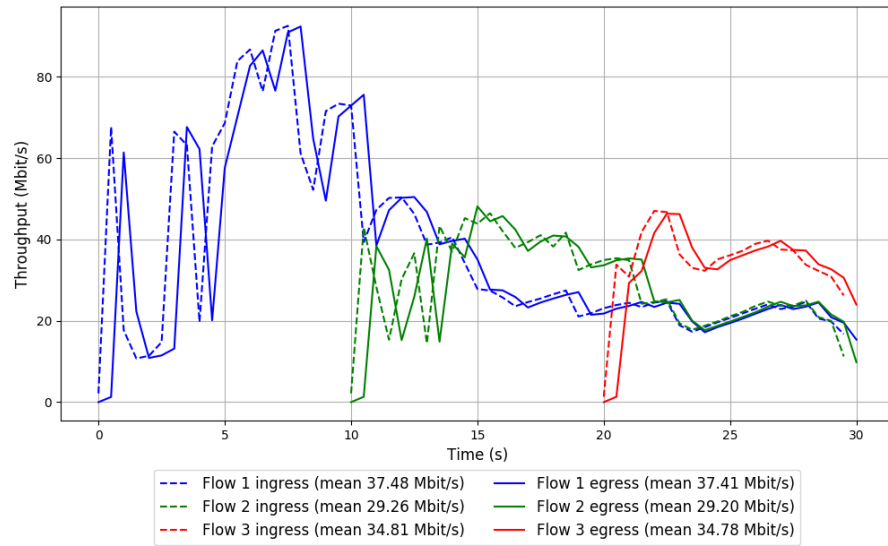
-- Flow 3:

Average throughput: 34.78 Mbit/s

95th percentile per-packet one-way delay: 57.570 ms

Loss rate: 0.80%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-07-10 21:52:16

End at: 2018-07-10 21:52:46

Local clock offset: -0.06 ms

Remote clock offset: 3.514 ms

Below is generated by plot.py at 2018-07-11 00:41:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.36 Mbit/s

95th percentile per-packet one-way delay: 56.416 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 47.13 Mbit/s

95th percentile per-packet one-way delay: 45.008 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 32.03 Mbit/s

95th percentile per-packet one-way delay: 56.685 ms

Loss rate: 0.50%

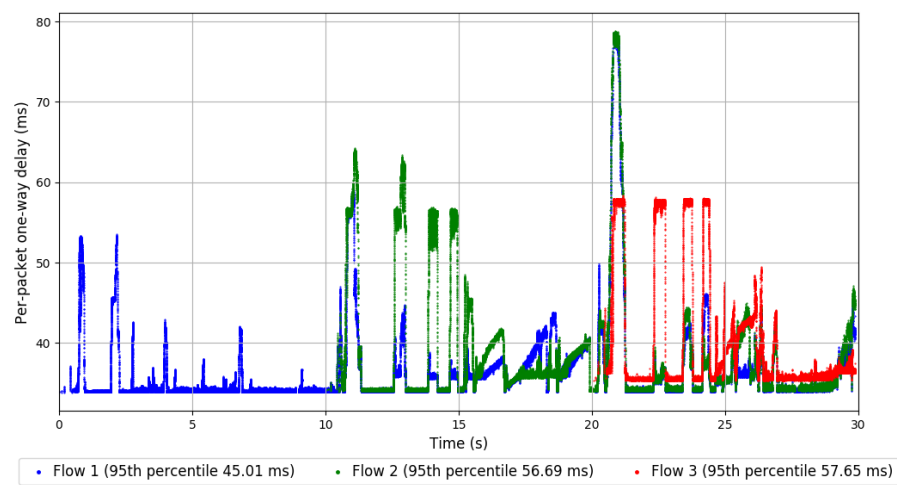
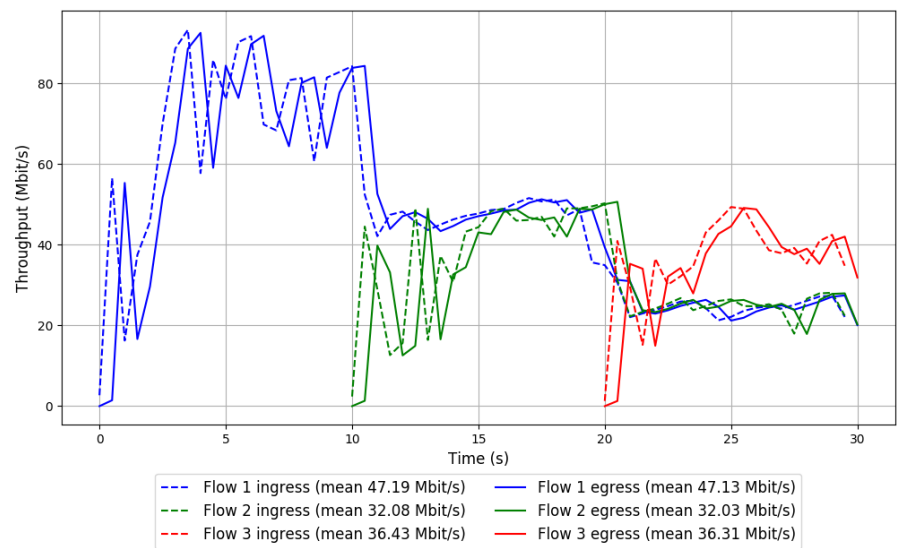
-- Flow 3:

Average throughput: 36.31 Mbit/s

95th percentile per-packet one-way delay: 57.647 ms

Loss rate: 1.01%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-07-10 22:16:26

End at: 2018-07-10 22:16:56

Local clock offset: -0.197 ms

Remote clock offset: 5.802 ms

Below is generated by plot.py at 2018-07-11 00:41:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.96 Mbit/s

95th percentile per-packet one-way delay: 55.675 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 38.82 Mbit/s

95th percentile per-packet one-way delay: 47.635 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 42.05 Mbit/s

95th percentile per-packet one-way delay: 56.957 ms

Loss rate: 0.51%

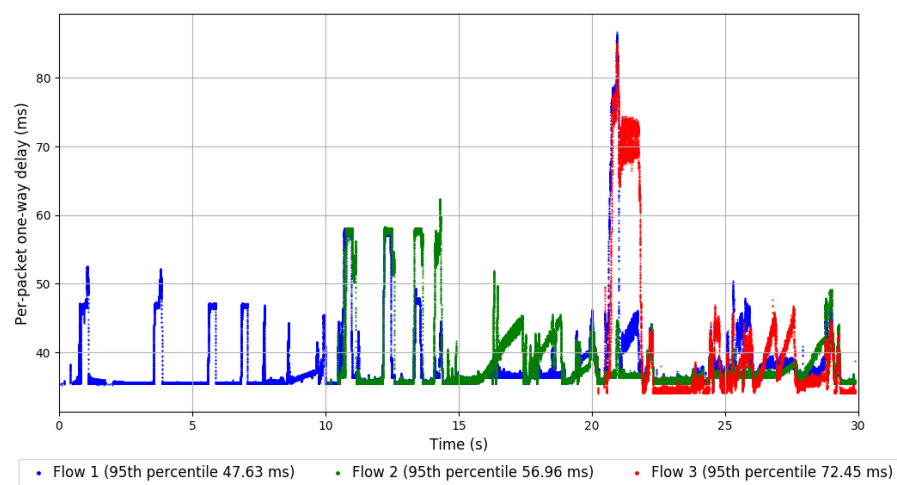
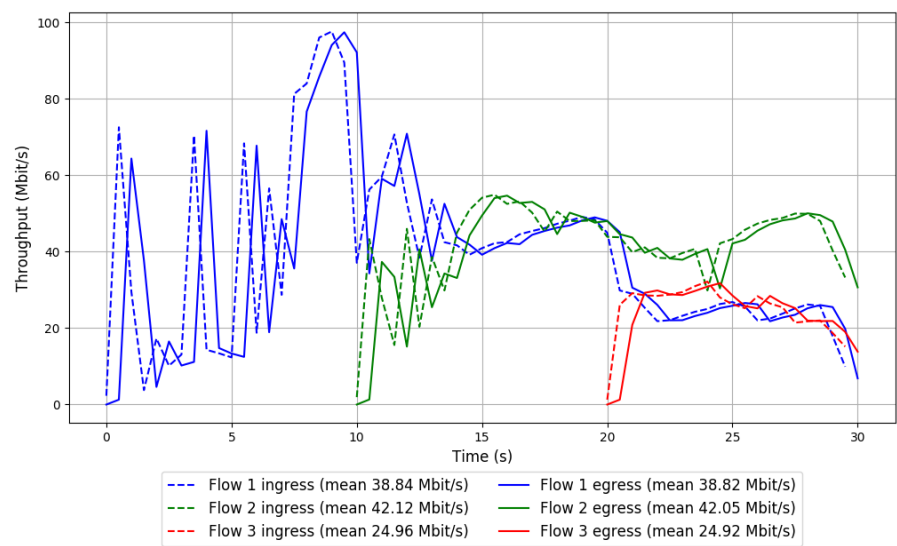
-- Flow 3:

Average throughput: 24.92 Mbit/s

95th percentile per-packet one-way delay: 72.453 ms

Loss rate: 0.90%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-07-10 22:40:53

End at: 2018-07-10 22:41:23

Local clock offset: -0.07 ms

Remote clock offset: 7.678 ms

Below is generated by plot.py at 2018-07-11 00:41:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 47.94 Mbit/s

95th percentile per-packet one-way delay: 50.779 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 18.42 Mbit/s

95th percentile per-packet one-way delay: 41.307 ms

Loss rate: 0.70%

-- Flow 2:

Average throughput: 26.47 Mbit/s

95th percentile per-packet one-way delay: 53.404 ms

Loss rate: 0.90%

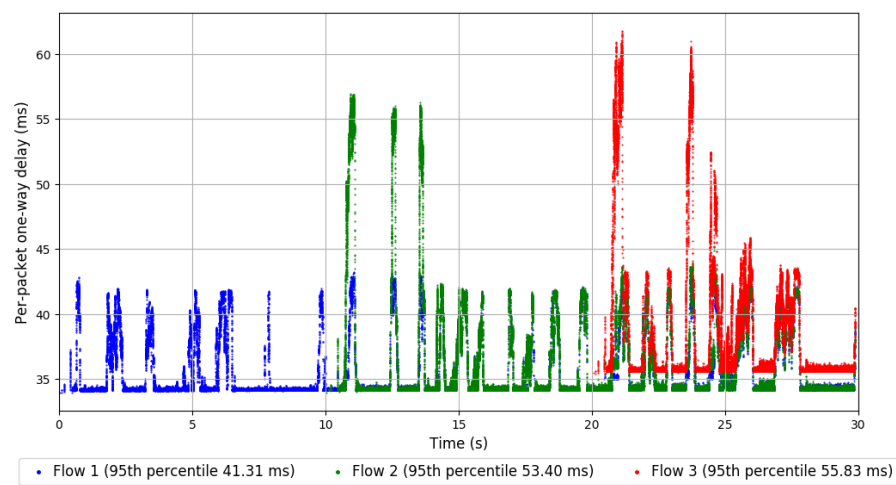
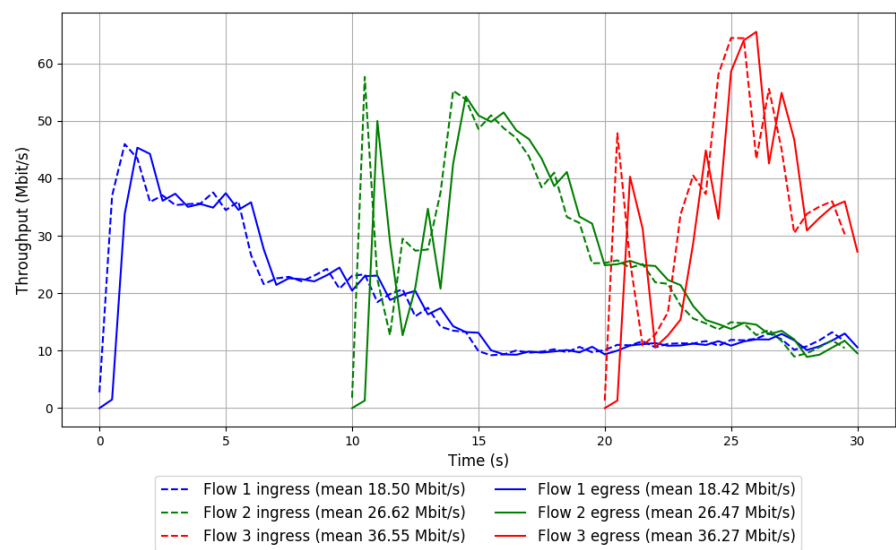
-- Flow 3:

Average throughput: 36.27 Mbit/s

95th percentile per-packet one-way delay: 55.828 ms

Loss rate: 1.45%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-07-10 23:06:11

End at: 2018-07-10 23:06:41

Local clock offset: -0.314 ms

Remote clock offset: 2.246 ms

Below is generated by plot.py at 2018-07-11 00:41:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.41 Mbit/s

95th percentile per-packet one-way delay: 43.538 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 25.27 Mbit/s

95th percentile per-packet one-way delay: 44.545 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 22.52 Mbit/s

95th percentile per-packet one-way delay: 42.892 ms

Loss rate: 0.86%

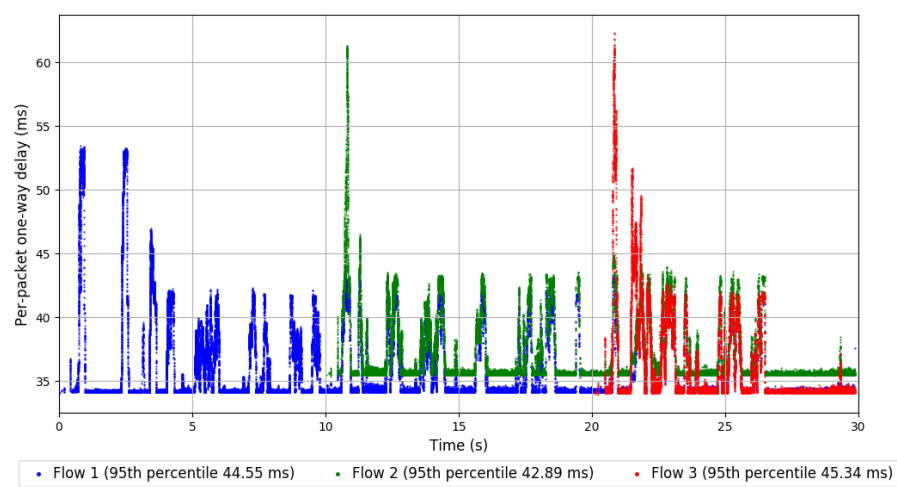
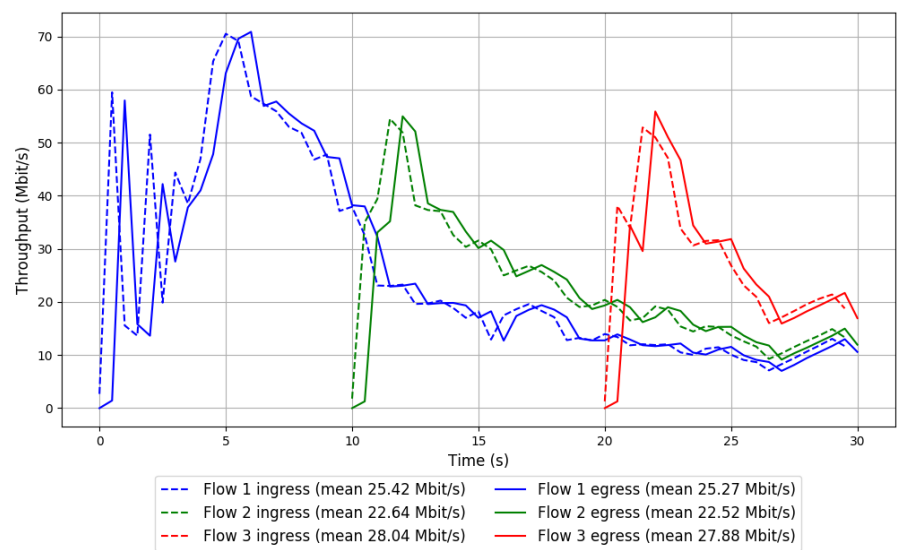
-- Flow 3:

Average throughput: 27.88 Mbit/s

95th percentile per-packet one-way delay: 45.340 ms

Loss rate: 1.26%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-07-10 23:31:40

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

Local clock offset: -0.933 ms

Remote clock offset: 1.686 ms

Below is generated by plot.py at 2018-07-11 00:41:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 46.34 Mbit/s

95th percentile per-packet one-way delay: 51.738 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 22.09 Mbit/s

95th percentile per-packet one-way delay: 51.671 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 23.88 Mbit/s

95th percentile per-packet one-way delay: 54.059 ms

Loss rate: 0.72%

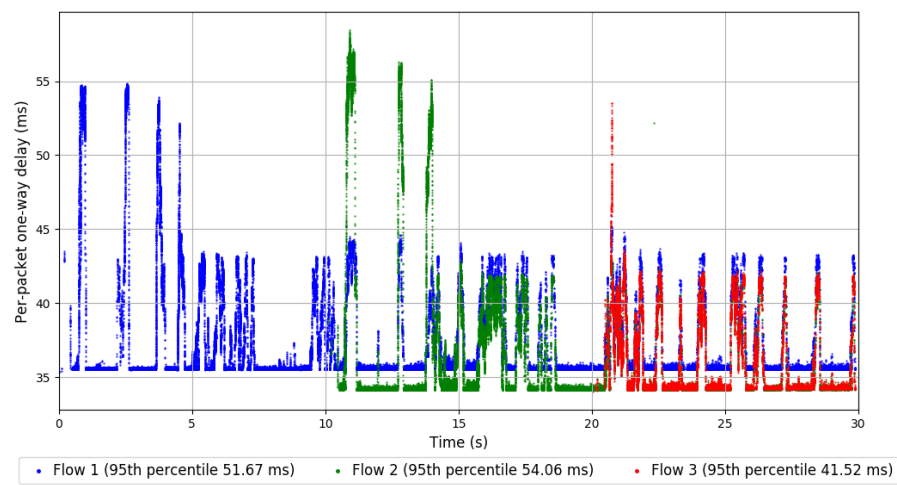
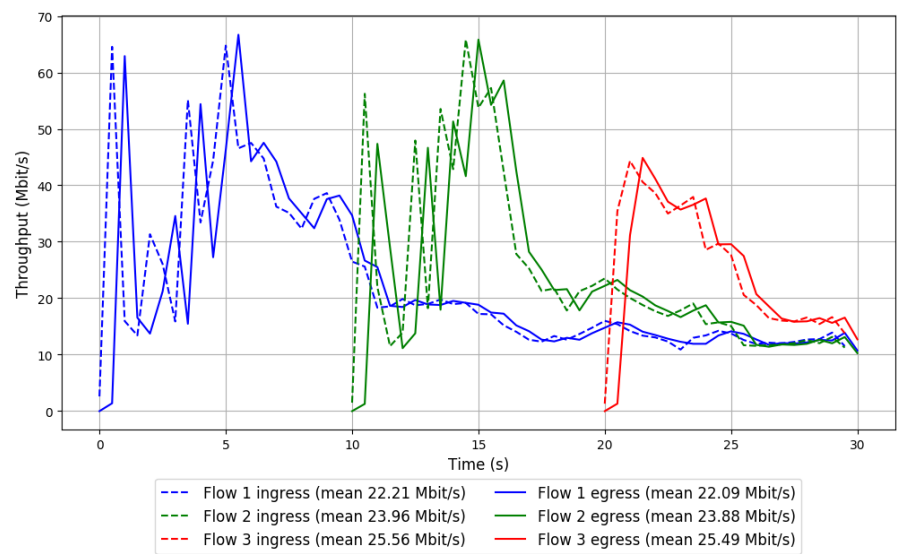
-- Flow 3:

Average throughput: 25.49 Mbit/s

95th percentile per-packet one-way delay: 41.515 ms

Loss rate: 0.95%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-07-10 23:58:00

End at: 2018-07-10 23:58:30

Local clock offset: -0.524 ms

Remote clock offset: 2.115 ms

Below is generated by plot.py at 2018-07-11 00:42:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 51.72 Mbit/s

95th percentile per-packet one-way delay: 50.162 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 25.94 Mbit/s

95th percentile per-packet one-way delay: 50.369 ms

Loss rate: 0.70%

-- Flow 2:

Average throughput: 33.73 Mbit/s

95th percentile per-packet one-way delay: 51.661 ms

Loss rate: 0.69%

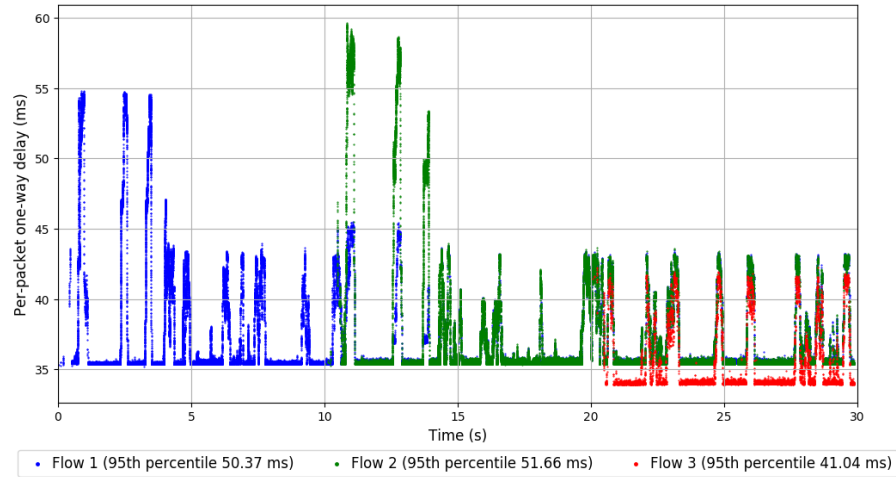
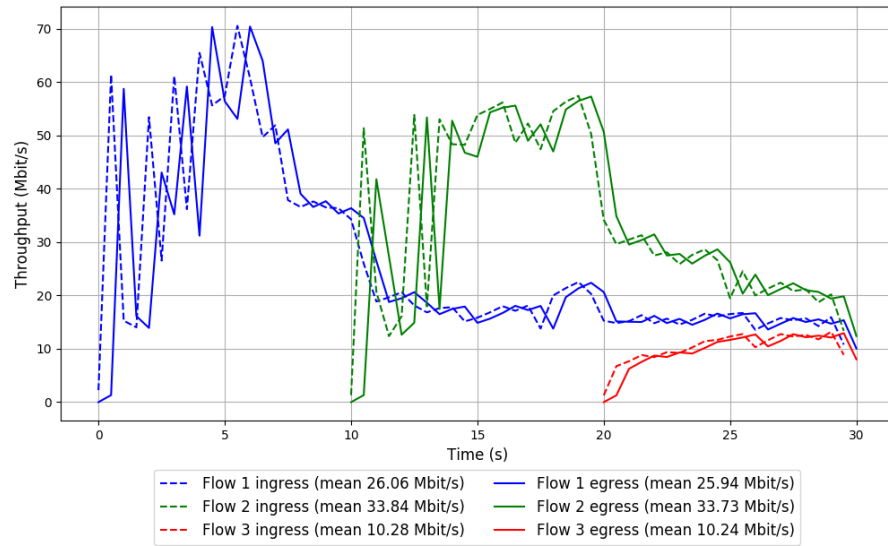
-- Flow 3:

Average throughput: 10.24 Mbit/s

95th percentile per-packet one-way delay: 41.043 ms

Loss rate: 1.14%

Run 10: Report of QUIC Cubic — Data Link

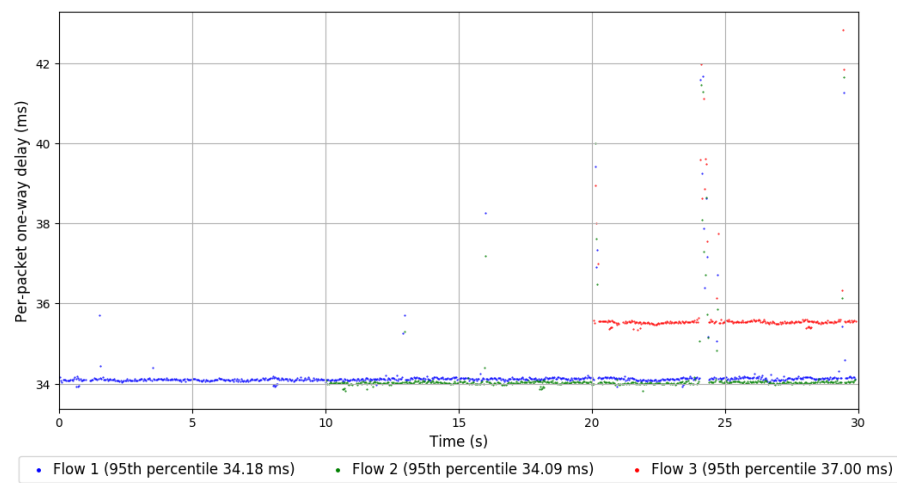
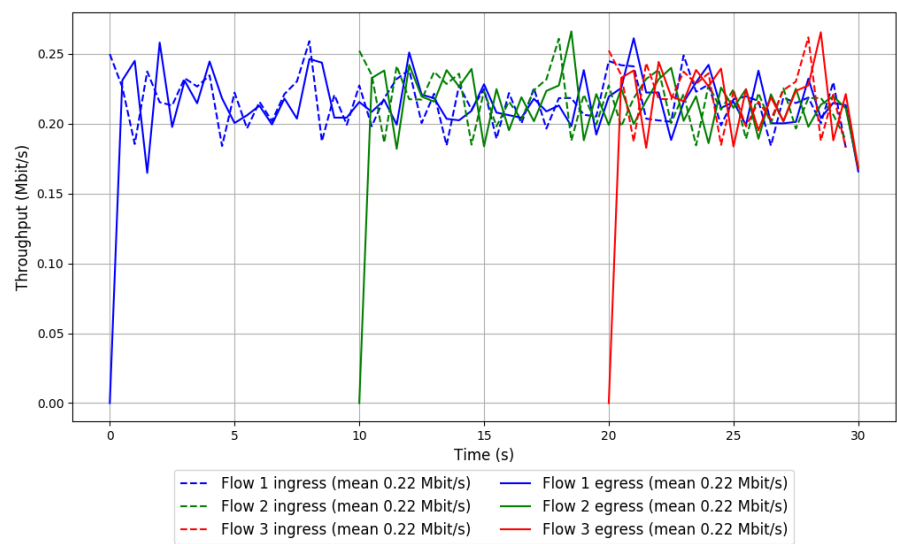


```
Run 1: Statistics of SReAM

Start at: 2018-07-10 20:31:36
End at: 2018-07-10 20:32:06
Local clock offset: 0.211 ms
Remote clock offset: 2.977 ms

# Below is generated by plot.py at 2018-07-11 00:42:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 35.568 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 34.180 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 34.093 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 36.998 ms
Loss rate: 0.70%
```

Run 1: Report of SReAM — Data Link

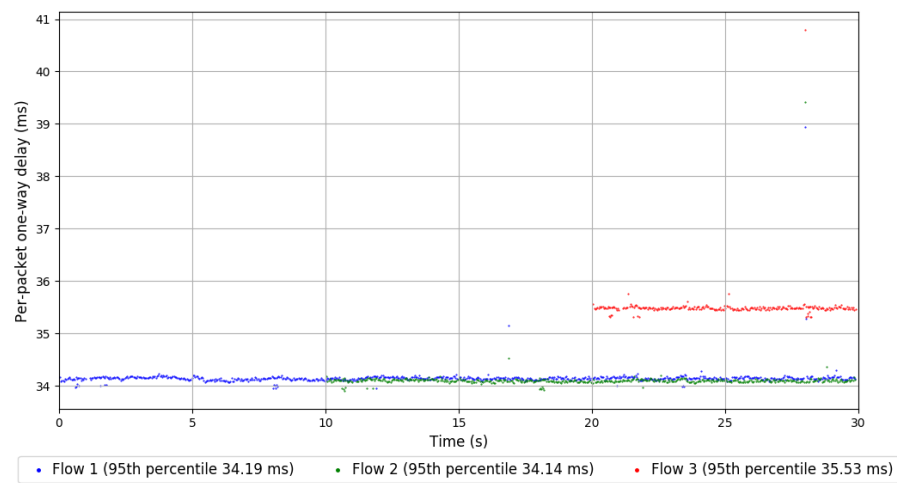
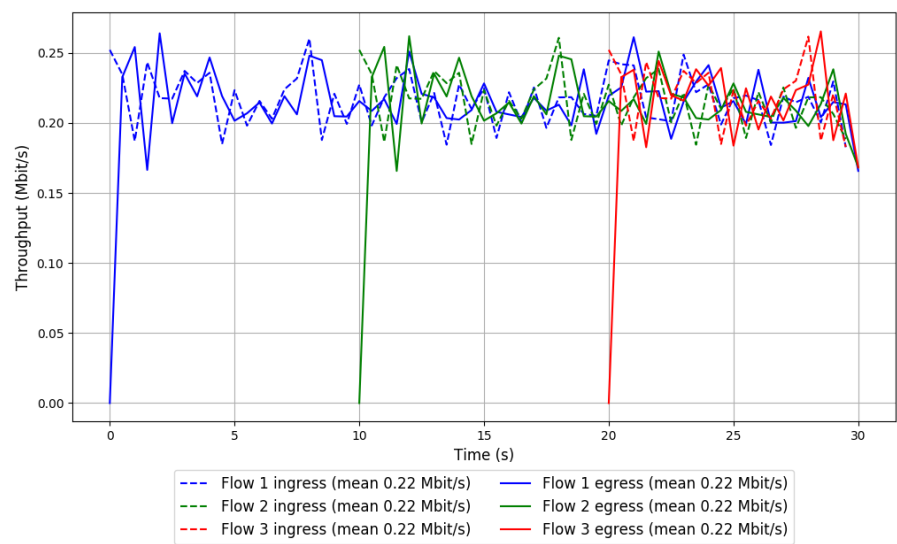


```
Run 2: Statistics of SReAM

Start at: 2018-07-10 20:55:38
End at: 2018-07-10 20:56:08
Local clock offset: 0.105 ms
Remote clock offset: 3.571 ms

# Below is generated by plot.py at 2018-07-11 00:42:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 35.495 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 34.188 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 34.140 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 35.535 ms
Loss rate: 0.70%
```

Run 2: Report of SReAM — Data Link

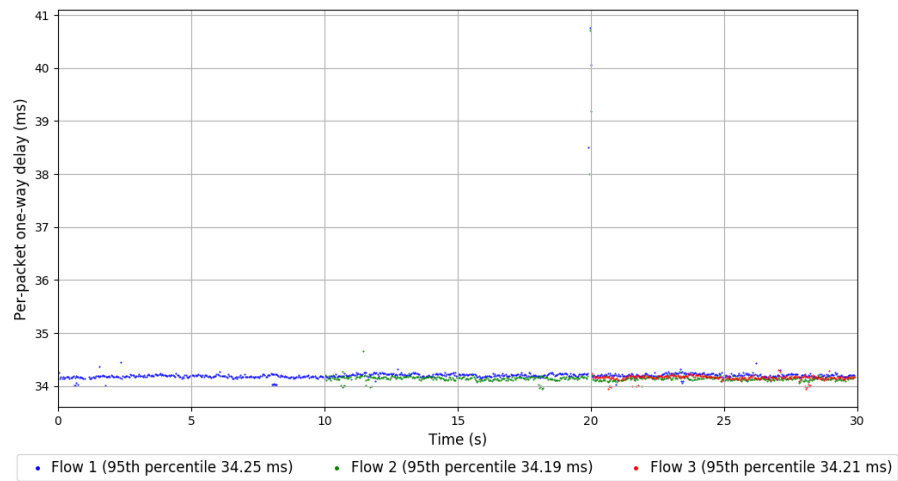
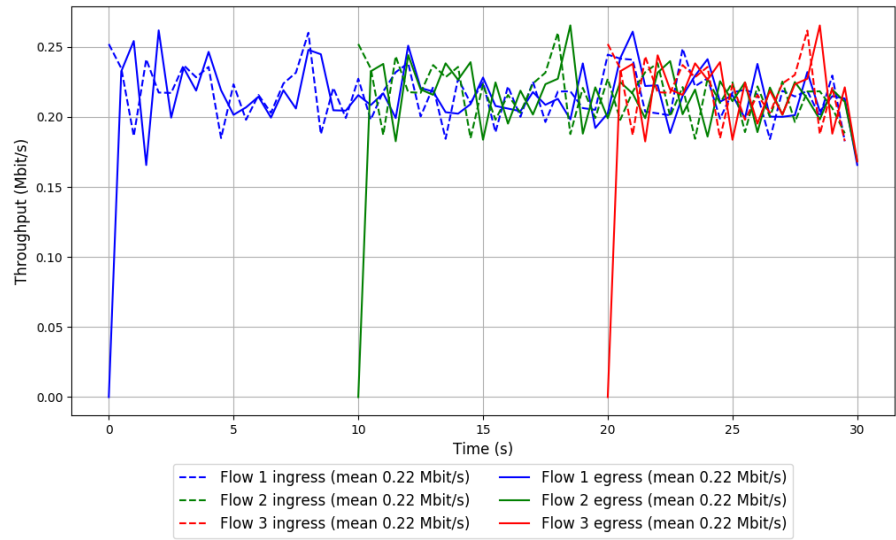


Run 3: Statistics of SReAM

Start at: 2018-07-10 21:19:33
End at: 2018-07-10 21:20:03
Local clock offset: 0.131 ms
Remote clock offset: 2.983 ms

Below is generated by plot.py at 2018-07-11 00:42:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 34.240 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 34.247 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 34.187 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 34.208 ms
Loss rate: 0.70%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-07-10 21:43:27

End at: 2018-07-10 21:43:57

Local clock offset: 0.1 ms

Remote clock offset: 3.504 ms

Below is generated by plot.py at 2018-07-11 00:42:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 35.482 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 34.048 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 34.059 ms

Loss rate: 0.47%

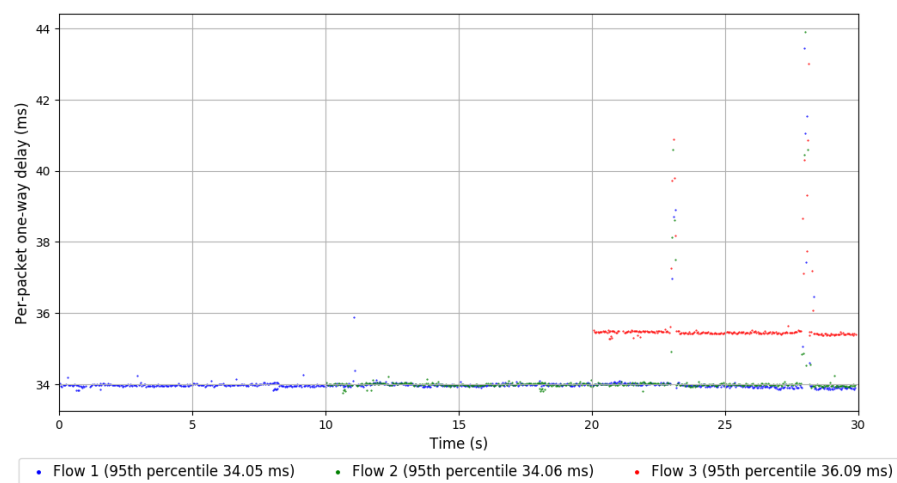
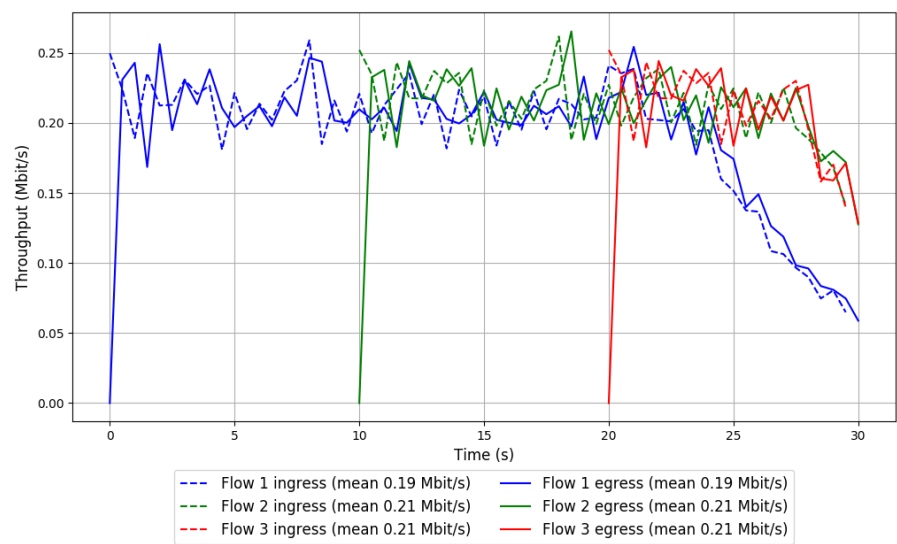
-- Flow 3:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 36.086 ms

Loss rate: 1.54%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-07-10 22:08:11

End at: 2018-07-10 22:08:41

Local clock offset: -0.182 ms

Remote clock offset: 4.037 ms

Below is generated by plot.py at 2018-07-11 00:42:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 35.644 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 35.656 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 35.616 ms

Loss rate: 0.39%

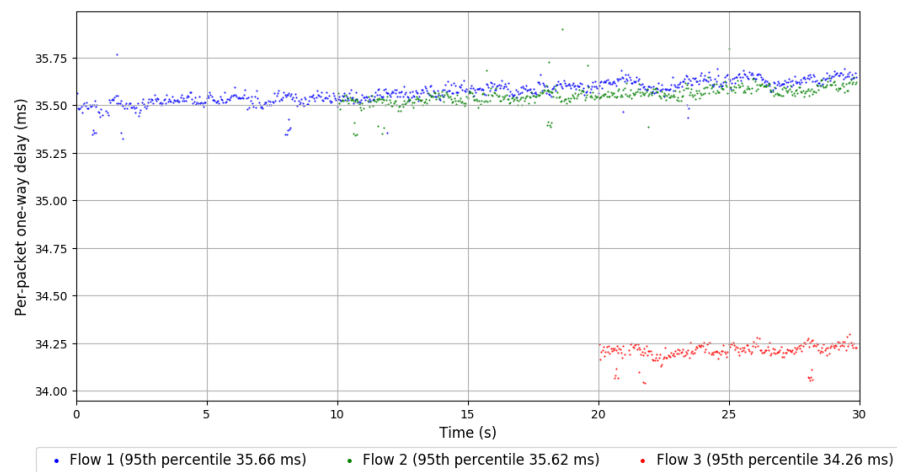
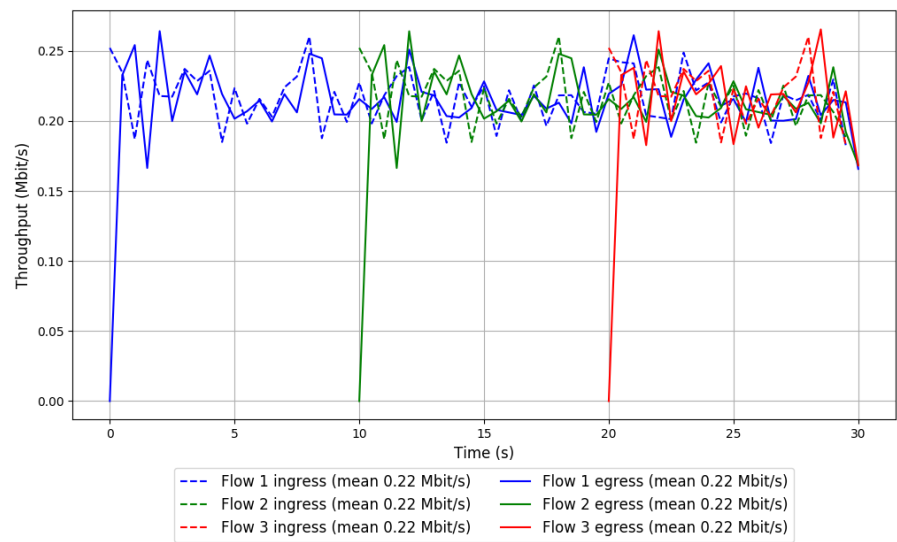
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 34.255 ms

Loss rate: 0.70%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-07-10 22:32:18

End at: 2018-07-10 22:32:48

Local clock offset: -0.168 ms

Remote clock offset: 7.288 ms

Below is generated by plot.py at 2018-07-11 00:42:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 35.389 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 34.073 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 35.388 ms

Loss rate: 0.39%

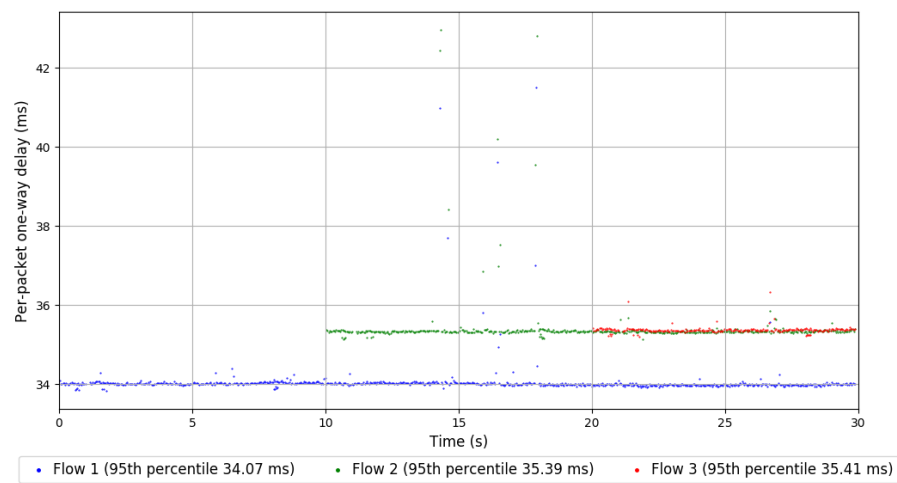
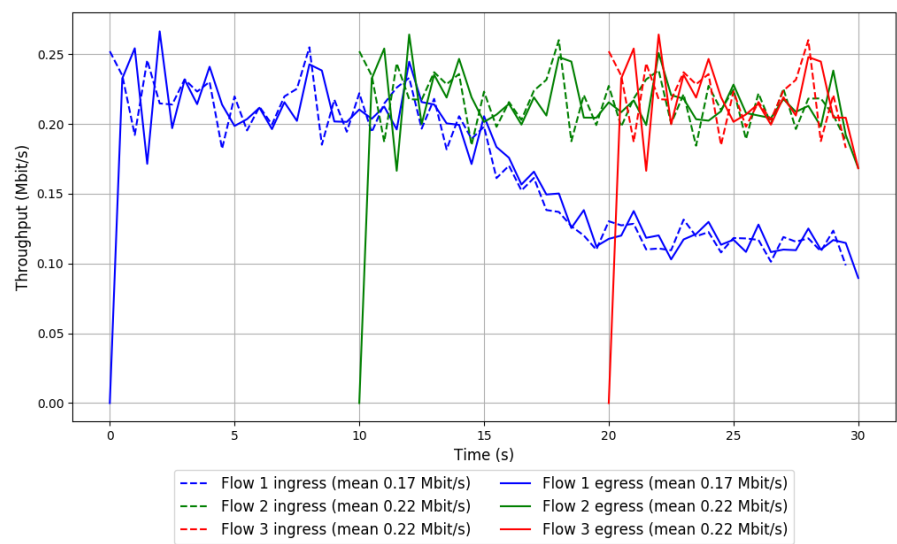
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 35.410 ms

Loss rate: 0.70%

Run 6: Report of SReAM — Data Link

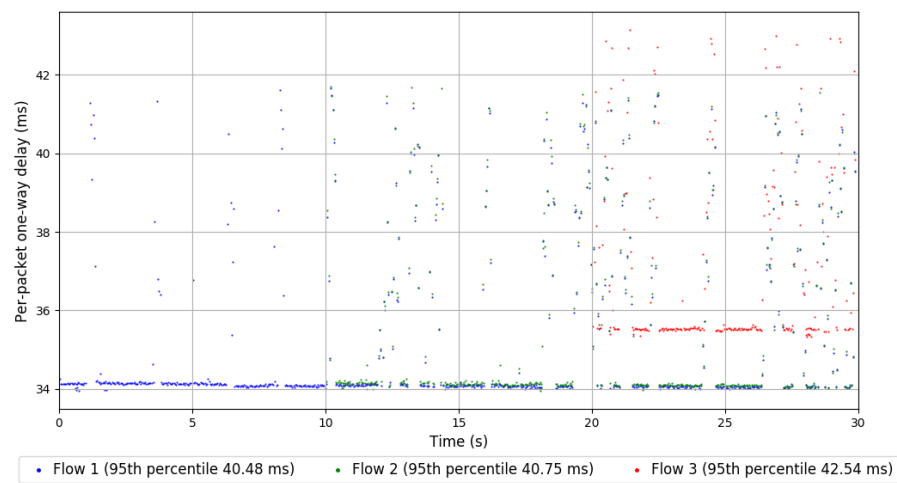
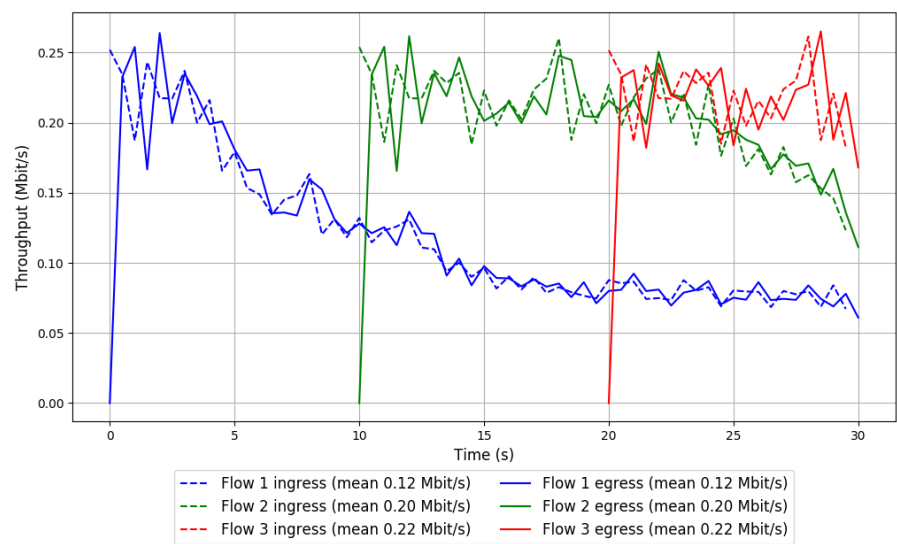


Run 7: Statistics of SReAM

Start at: 2018-07-10 22:57:19
End at: 2018-07-10 22:57:49
Local clock offset: -0.184 ms
Remote clock offset: 3.044 ms

Below is generated by plot.py at 2018-07-11 00:42:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 40.883 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 40.477 ms
Loss rate: 1.02%
-- Flow 2:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 40.751 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 42.536 ms
Loss rate: 0.70%

Run 7: Report of SReAM — Data Link

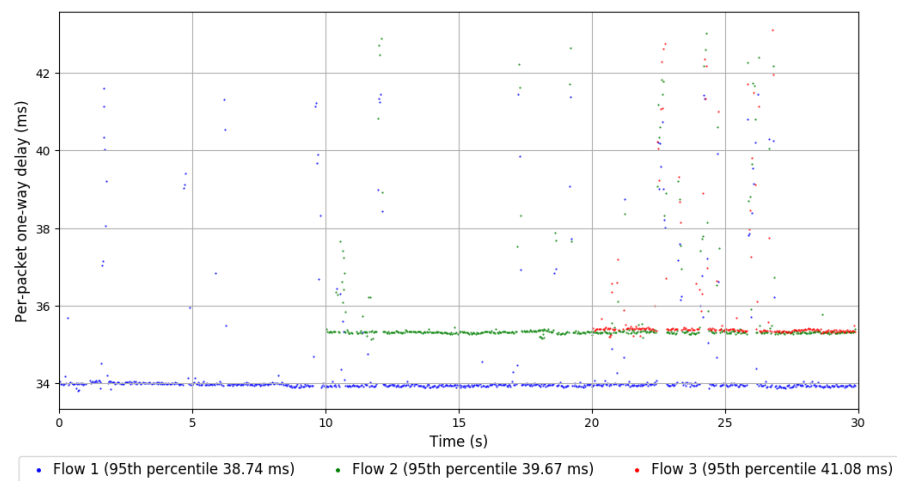
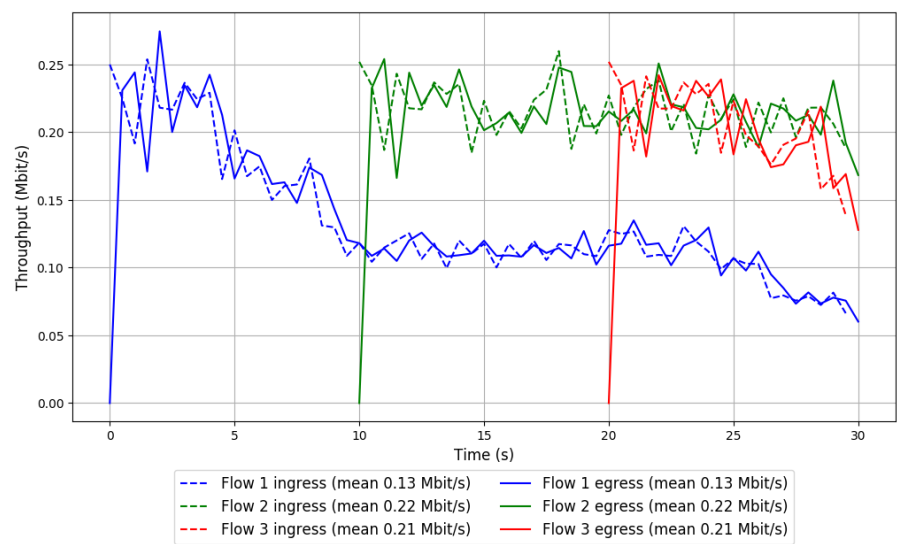


Run 8: Statistics of SReAM

Start at: 2018-07-10 23:22:46
End at: 2018-07-10 23:23:16
Local clock offset: -0.783 ms
Remote clock offset: 1.853 ms

Below is generated by plot.py at 2018-07-11 00:42:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 39.204 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 38.738 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 39.667 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 41.082 ms
Loss rate: 1.05%

Run 8: Report of SReAM — Data Link

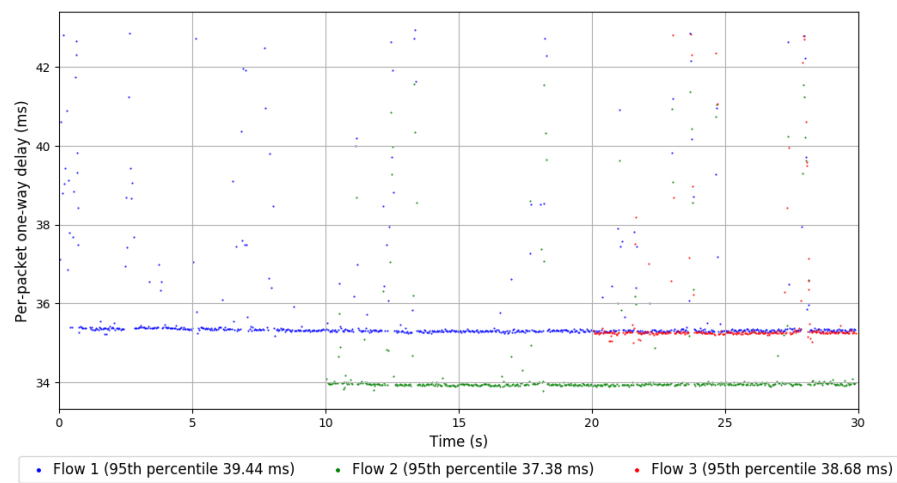
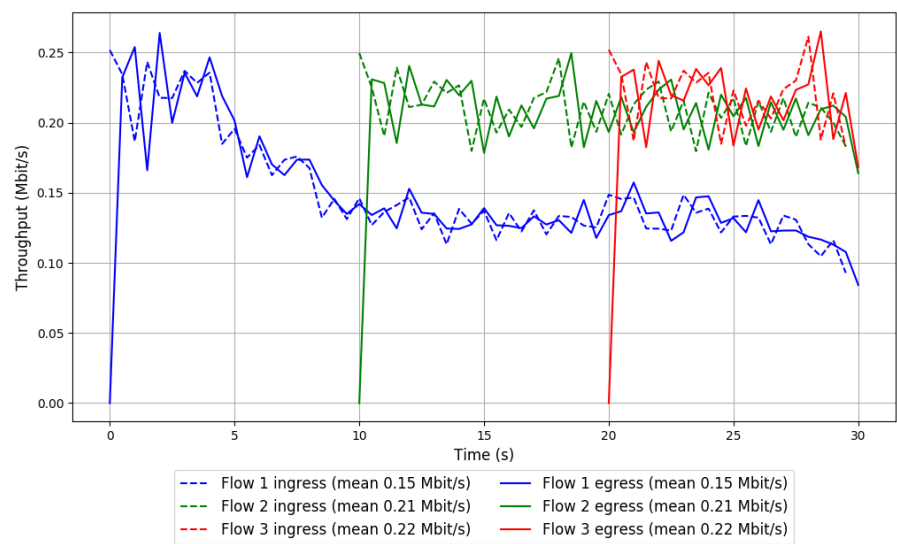


Run 9: Statistics of SReAM

Start at: 2018-07-10 23:49:10
End at: 2018-07-10 23:49:40
Local clock offset: -0.858 ms
Remote clock offset: 1.313 ms

Below is generated by plot.py at 2018-07-11 00:42:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 39.078 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 39.436 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 37.381 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 38.682 ms
Loss rate: 0.70%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-07-11 00:14:28

End at: 2018-07-11 00:14:58

Local clock offset: 0.129 ms

Remote clock offset: 2.726 ms

Below is generated by plot.py at 2018-07-11 00:42:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.34 Mbit/s

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

Loss rate: 0.64%

-- Flow 1:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 42.513 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 40.937 ms

Loss rate: 0.52%

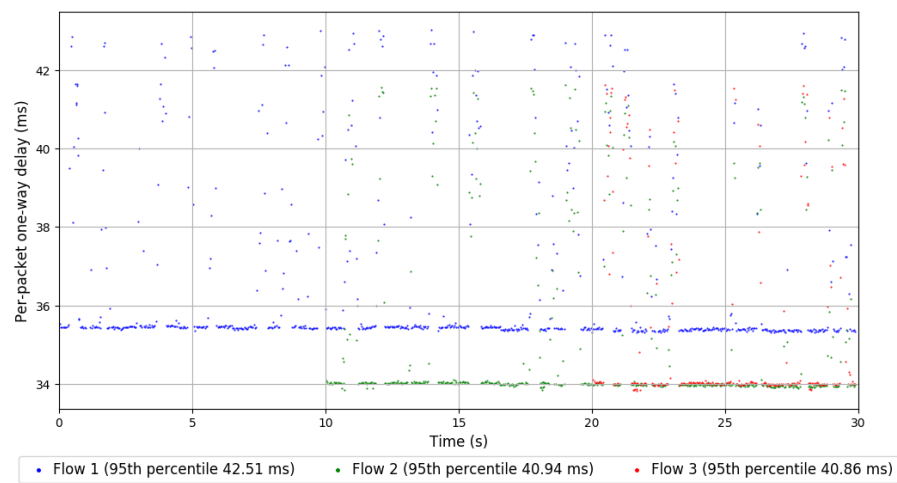
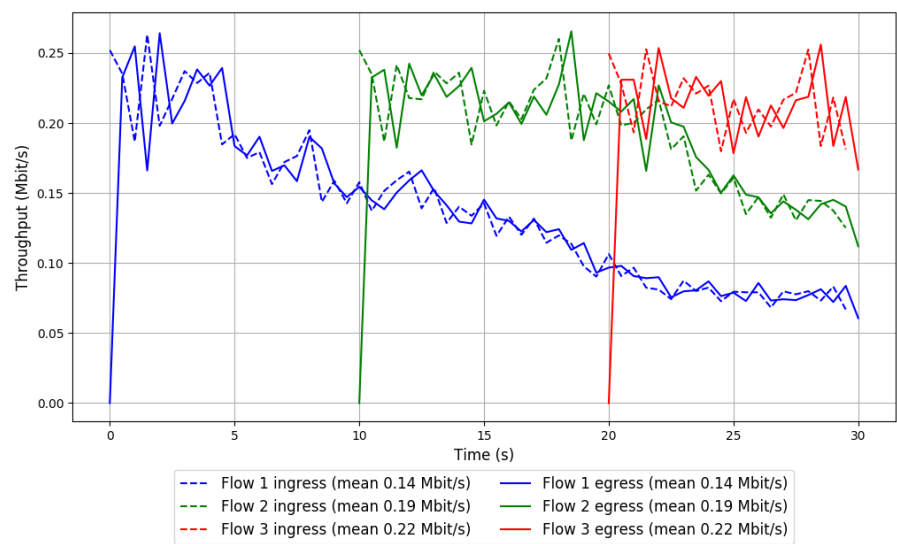
-- Flow 3:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.71%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-07-10 20:30:16

End at: 2018-07-10 20:30:46

Local clock offset: 0.225 ms

Remote clock offset: 2.935 ms

Below is generated by plot.py at 2018-07-11 00:42:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.73 Mbit/s

95th percentile per-packet one-way delay: 42.667 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 10.13 Mbit/s

95th percentile per-packet one-way delay: 41.625 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 9.81 Mbit/s

95th percentile per-packet one-way delay: 43.293 ms

Loss rate: 0.45%

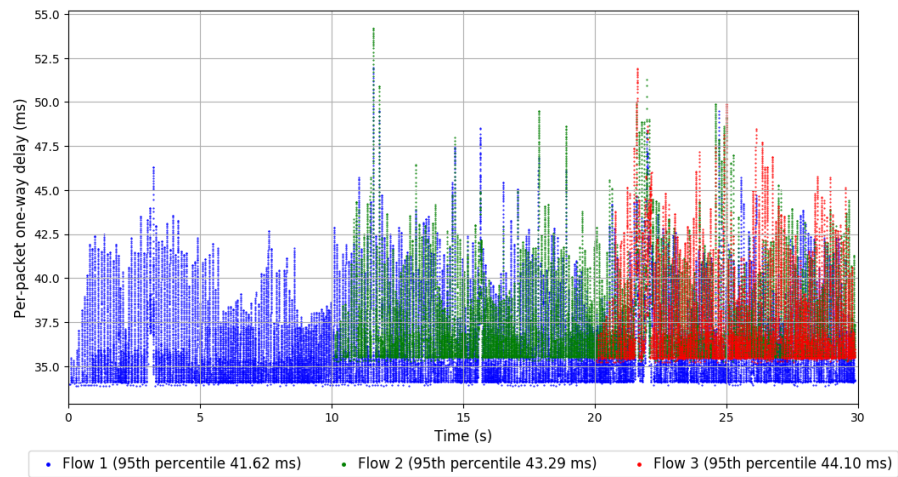
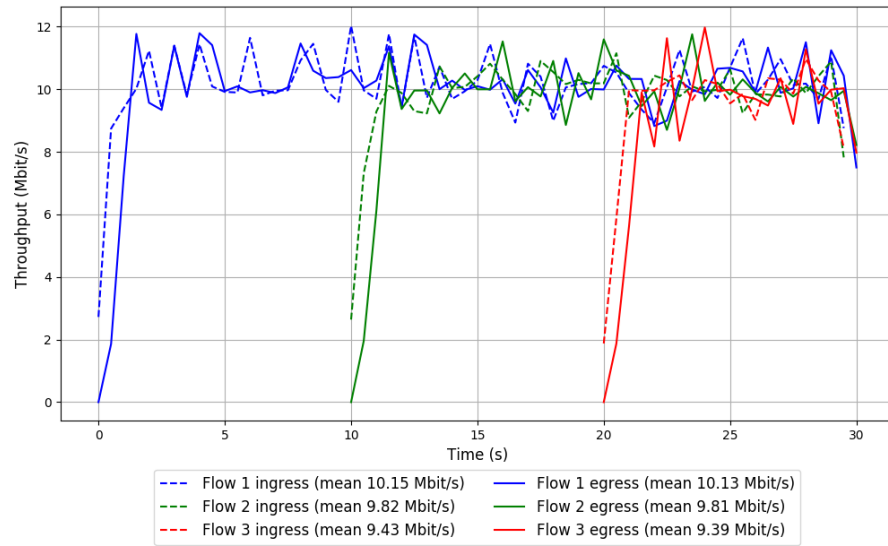
-- Flow 3:

Average throughput: 9.39 Mbit/s

95th percentile per-packet one-way delay: 44.098 ms

Loss rate: 1.18%

Run 1: Report of Sprout — Data Link

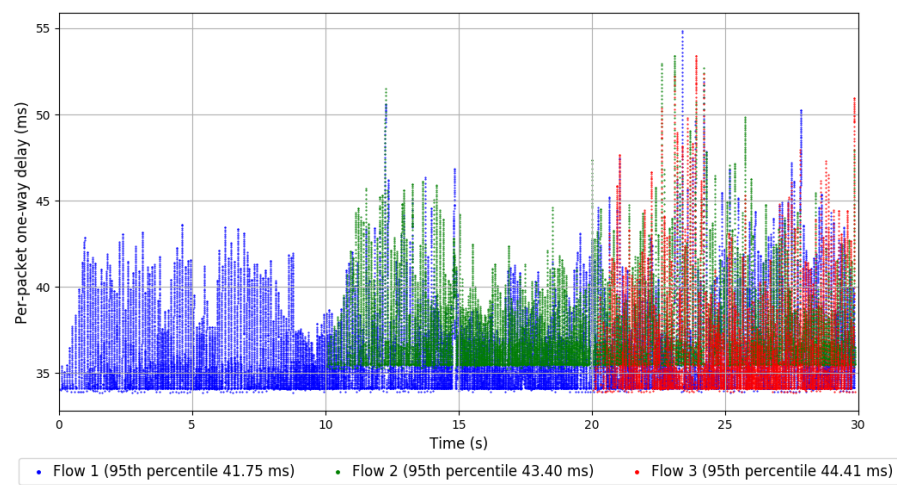
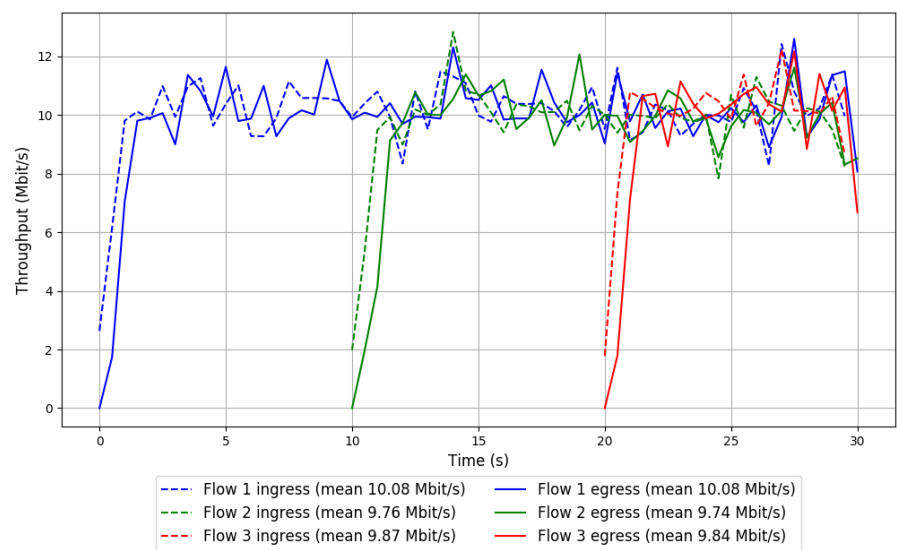


Run 2: Statistics of Sprout

Start at: 2018-07-10 20:54:20
End at: 2018-07-10 20:54:50
Local clock offset: 0.098 ms
Remote clock offset: 3.51 ms

```
# Below is generated by plot.py at 2018-07-11 00:42:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.78 Mbit/s
95th percentile per-packet one-way delay: 42.826 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 10.08 Mbit/s
95th percentile per-packet one-way delay: 41.750 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 9.74 Mbit/s
95th percentile per-packet one-way delay: 43.401 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 9.84 Mbit/s
95th percentile per-packet one-way delay: 44.408 ms
Loss rate: 1.01%
```


Run 2: Report of Sprout — Data Link

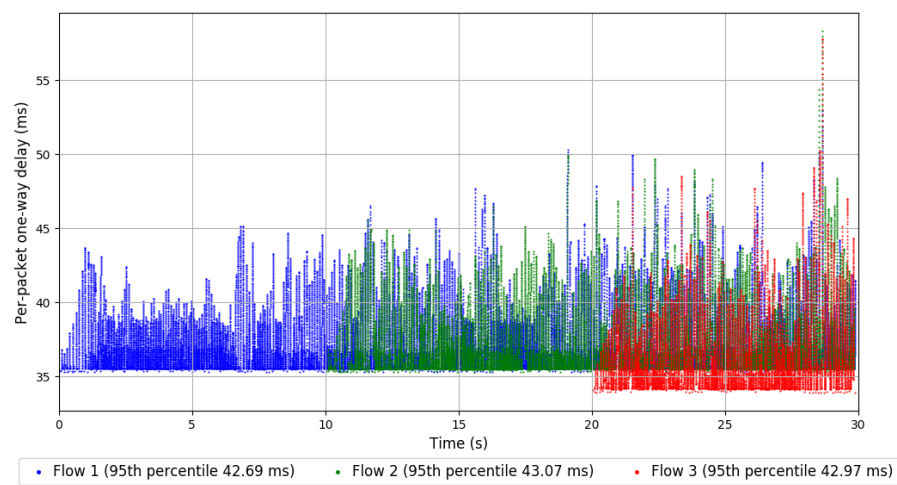
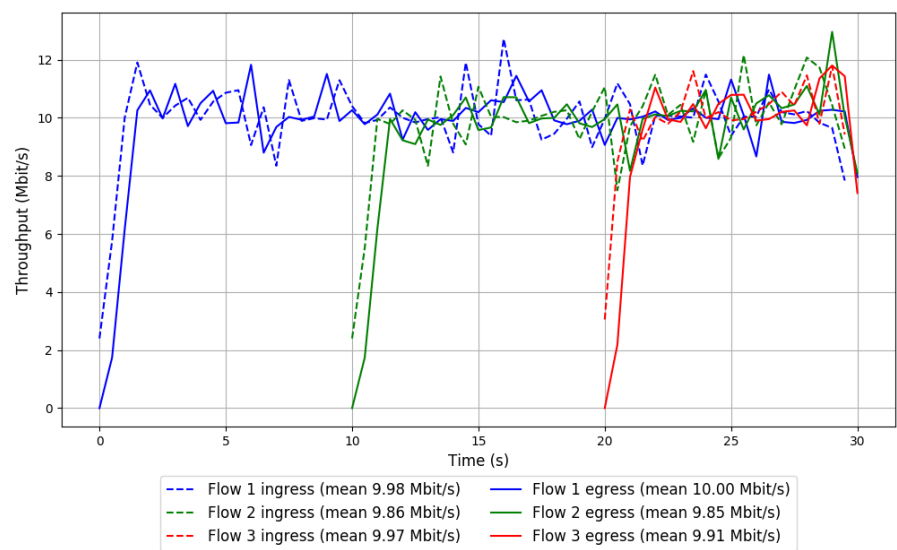


Run 3: Statistics of Sprout

Start at: 2018-07-10 21:18:14
End at: 2018-07-10 21:18:44
Local clock offset: 0.135 ms
Remote clock offset: 3.023 ms

```
# Below is generated by plot.py at 2018-07-11 00:42:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.80 Mbit/s
95th percentile per-packet one-way delay: 42.866 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 10.00 Mbit/s
95th percentile per-packet one-way delay: 42.686 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 9.85 Mbit/s
95th percentile per-packet one-way delay: 43.069 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 9.91 Mbit/s
95th percentile per-packet one-way delay: 42.971 ms
Loss rate: 1.20%
```

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

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

End at: 2018-07-10 21:42:37

Local clock offset: 0.012 ms

Remote clock offset: 3.385 ms

Below is generated by plot.py at 2018-07-11 00:42:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.87 Mbit/s

95th percentile per-packet one-way delay: 41.574 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 10.10 Mbit/s

95th percentile per-packet one-way delay: 41.529 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 10.01 Mbit/s

95th percentile per-packet one-way delay: 41.087 ms

Loss rate: 0.05%

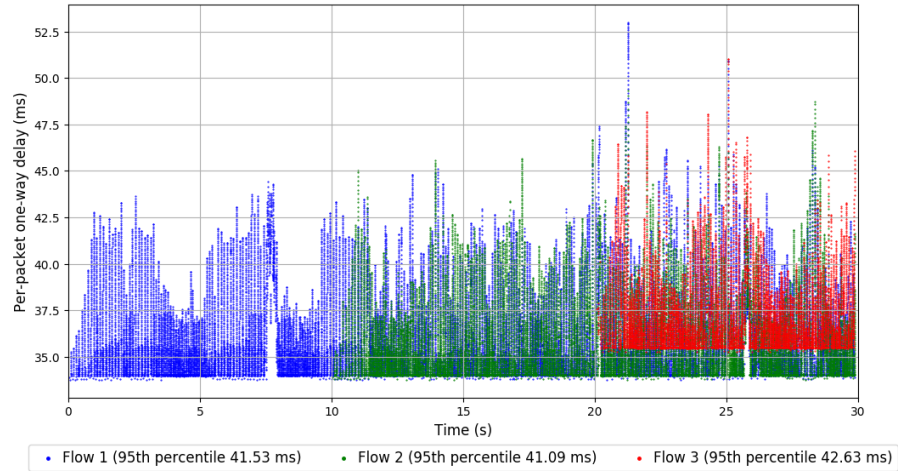
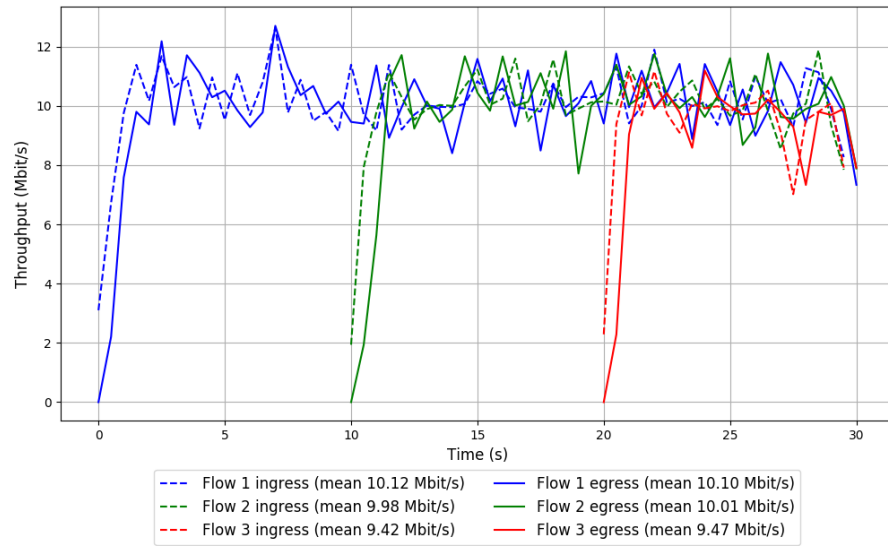
-- Flow 3:

Average throughput: 9.47 Mbit/s

95th percentile per-packet one-way delay: 42.627 ms

Loss rate: 0.30%

Run 4: Report of Sprout — Data Link

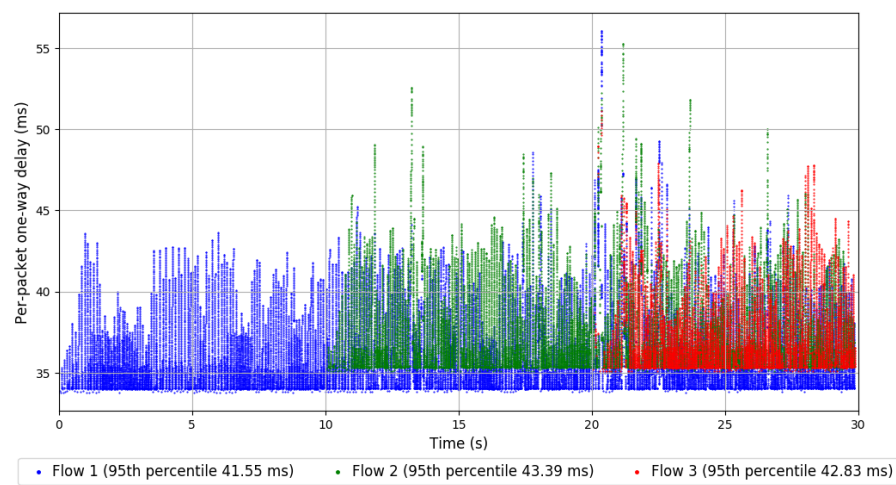
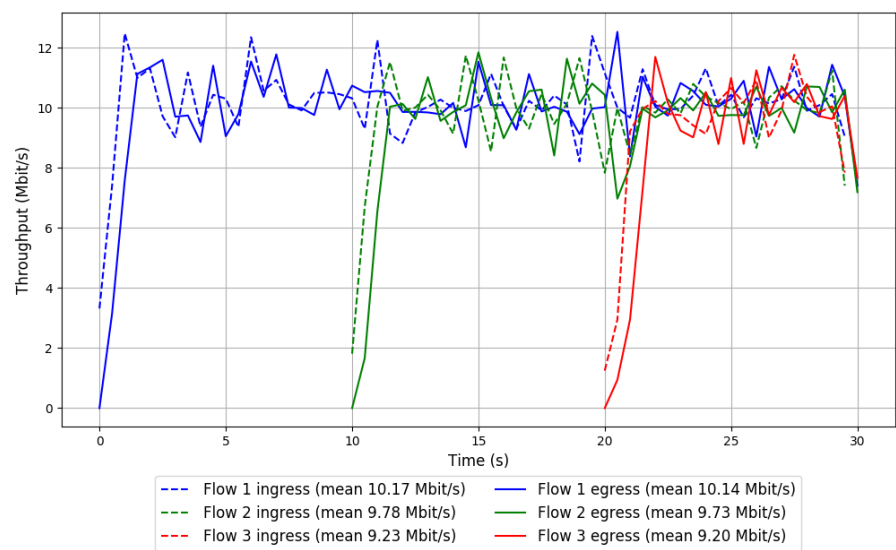


Run 5: Statistics of Sprout

Start at: 2018-07-10 22:06:52
End at: 2018-07-10 22:07:22
Local clock offset: -0.175 ms
Remote clock offset: 3.898 ms

```
# Below is generated by plot.py at 2018-07-11 00:42:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.63 Mbit/s
95th percentile per-packet one-way delay: 42.436 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 10.14 Mbit/s
95th percentile per-packet one-way delay: 41.547 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 9.73 Mbit/s
95th percentile per-packet one-way delay: 43.393 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 9.20 Mbit/s
95th percentile per-packet one-way delay: 42.827 ms
Loss rate: 1.10%
```

Run 5: Report of Sprout — Data Link

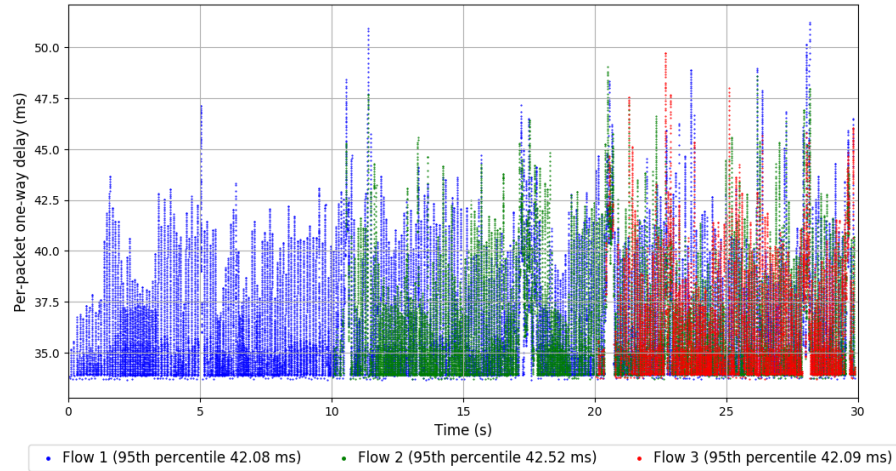
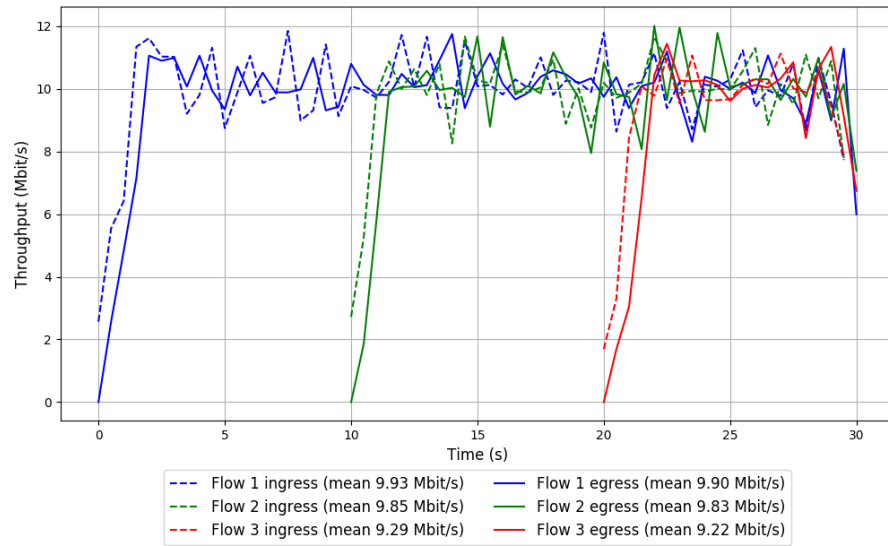


Run 6: Statistics of Sprout

Start at: 2018-07-10 22:31:00
End at: 2018-07-10 22:31:30
Local clock offset: -0.178 ms
Remote clock offset: 7.245 ms

Below is generated by plot.py at 2018-07-11 00:42:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.46 Mbit/s
95th percentile per-packet one-way delay: 42.230 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 9.90 Mbit/s
95th percentile per-packet one-way delay: 42.082 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 9.83 Mbit/s
95th percentile per-packet one-way delay: 42.525 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 9.22 Mbit/s
95th percentile per-packet one-way delay: 42.092 ms
Loss rate: 1.11%

Run 6: Report of Sprout — Data Link

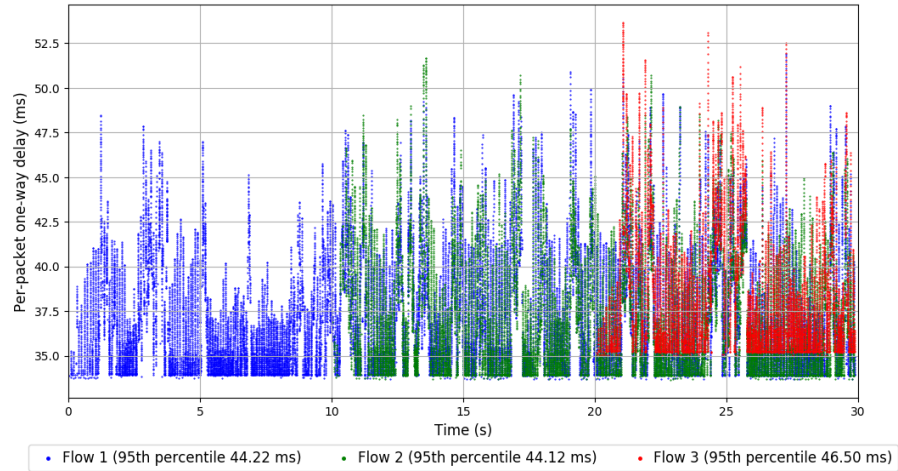
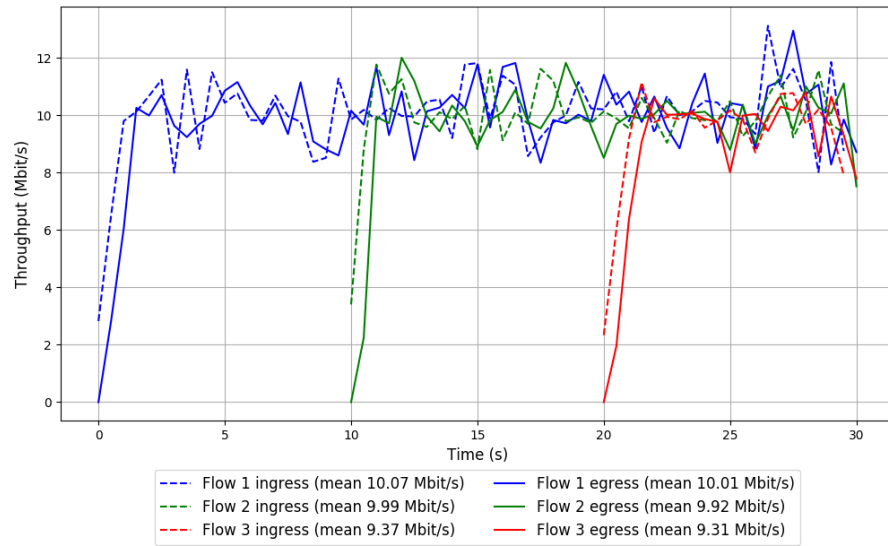


Run 7: Statistics of Sprout

Start at: 2018-07-10 22:55:57
End at: 2018-07-10 22:56:27
Local clock offset: -0.258 ms
Remote clock offset: 3.384 ms

Below is generated by plot.py at 2018-07-11 00:42:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.65 Mbit/s
95th percentile per-packet one-way delay: 44.592 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 10.01 Mbit/s
95th percentile per-packet one-way delay: 44.219 ms
Loss rate: 0.86%
-- Flow 2:
Average throughput: 9.92 Mbit/s
95th percentile per-packet one-way delay: 44.117 ms
Loss rate: 1.14%
-- Flow 3:
Average throughput: 9.31 Mbit/s
95th percentile per-packet one-way delay: 46.503 ms
Loss rate: 1.33%

Run 7: Report of Sprout — Data Link

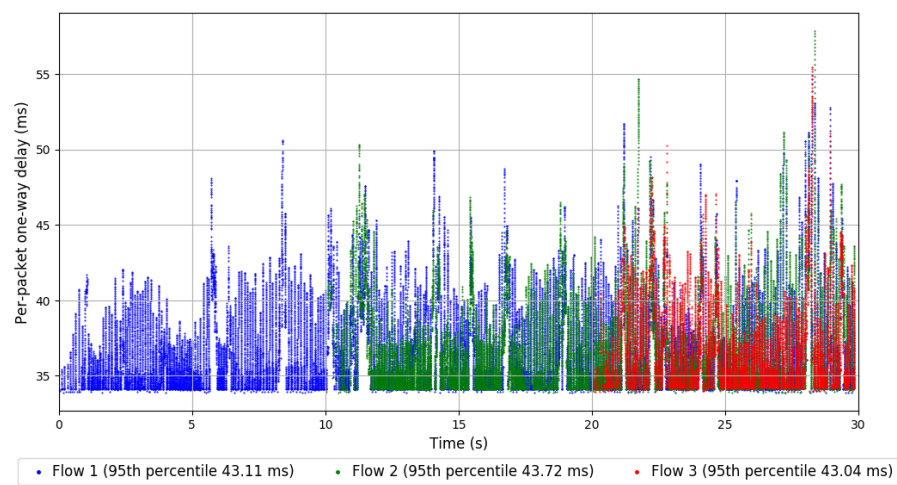
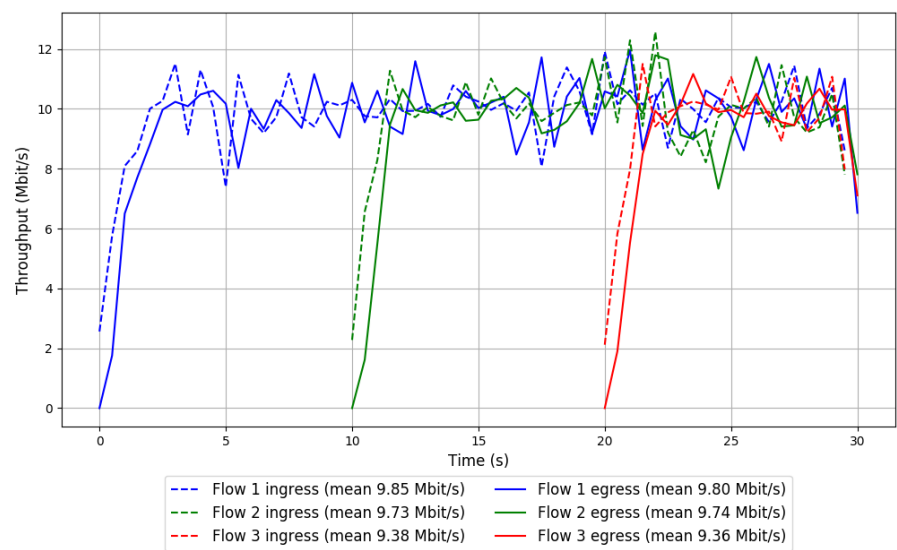


Run 8: Statistics of Sprout

Start at: 2018-07-10 23:21:25
End at: 2018-07-10 23:21:55
Local clock offset: -0.662 ms
Remote clock offset: 1.84 ms

```
# Below is generated by plot.py at 2018-07-11 00:42:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.35 Mbit/s
95th percentile per-packet one-way delay: 43.309 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 9.80 Mbit/s
95th percentile per-packet one-way delay: 43.113 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 9.74 Mbit/s
95th percentile per-packet one-way delay: 43.716 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 9.36 Mbit/s
95th percentile per-packet one-way delay: 43.036 ms
Loss rate: 1.18%
```

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-07-10 23:47:45

End at: 2018-07-10 23:48:15

Local clock offset: -0.808 ms

Remote clock offset: 1.407 ms

Below is generated by plot.py at 2018-07-11 00:42:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.60 Mbit/s

95th percentile per-packet one-way delay: 44.309 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 9.83 Mbit/s

95th percentile per-packet one-way delay: 44.610 ms

Loss rate: 0.70%

-- Flow 2:

Average throughput: 9.98 Mbit/s

95th percentile per-packet one-way delay: 43.641 ms

Loss rate: 0.66%

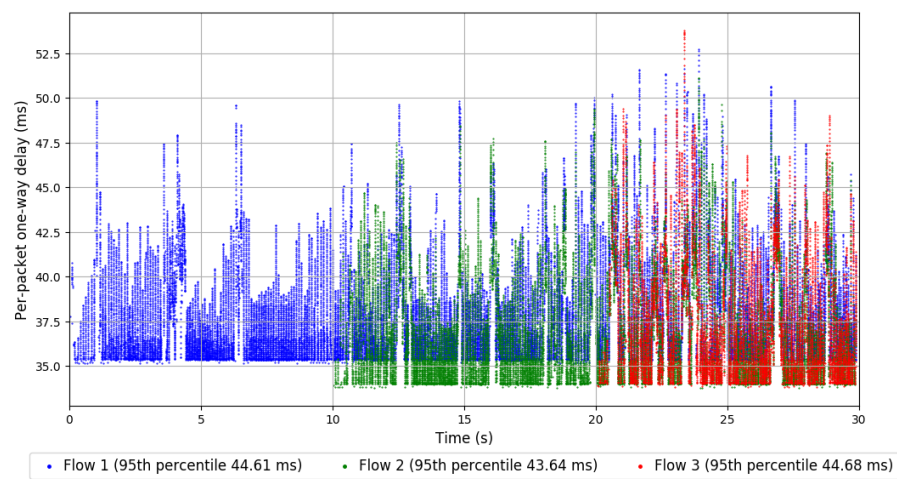
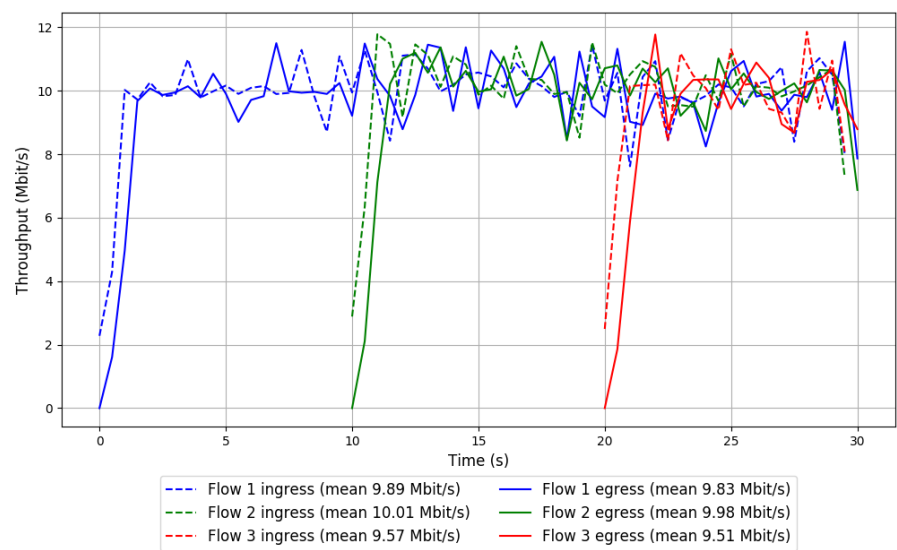
-- Flow 3:

Average throughput: 9.51 Mbit/s

95th percentile per-packet one-way delay: 44.680 ms

Loss rate: 1.27%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-07-11 00:13:02

End at: 2018-07-11 00:13:32

Local clock offset: 0.165 ms

Remote clock offset: 2.776 ms

Below is generated by plot.py at 2018-07-11 00:42:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.19 Mbit/s

95th percentile per-packet one-way delay: 44.505 ms

Loss rate: 1.03%

-- Flow 1:

Average throughput: 9.84 Mbit/s

95th percentile per-packet one-way delay: 43.771 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 9.55 Mbit/s

95th percentile per-packet one-way delay: 44.805 ms

Loss rate: 1.02%

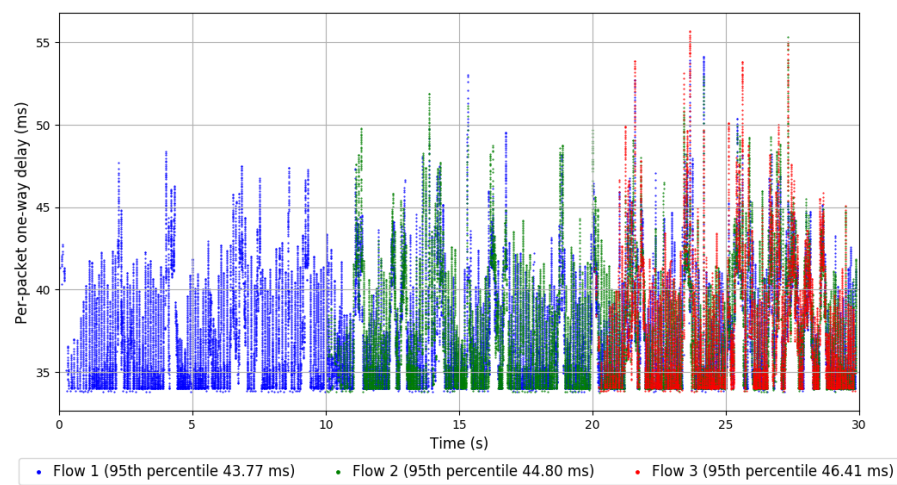
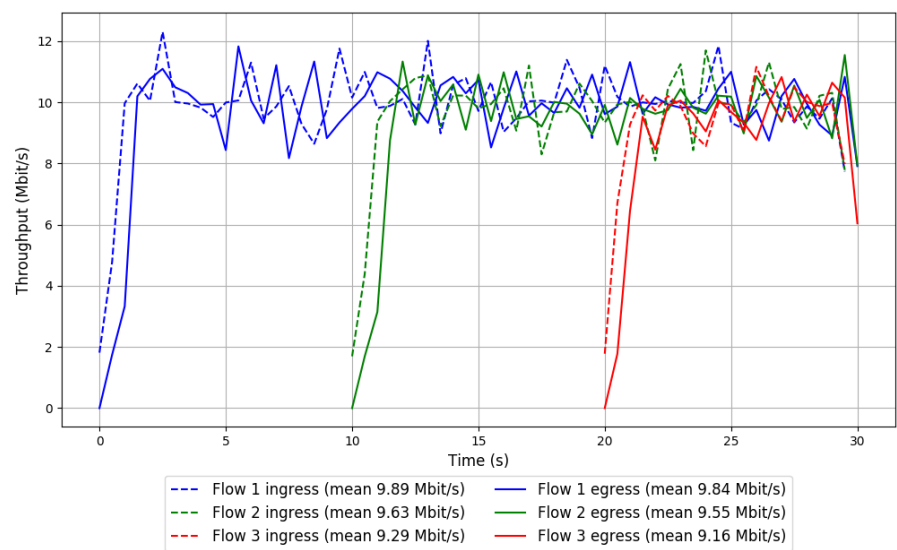
-- Flow 3:

Average throughput: 9.16 Mbit/s

95th percentile per-packet one-way delay: 46.408 ms

Loss rate: 2.12%

Run 10: Report of Sprout — Data Link

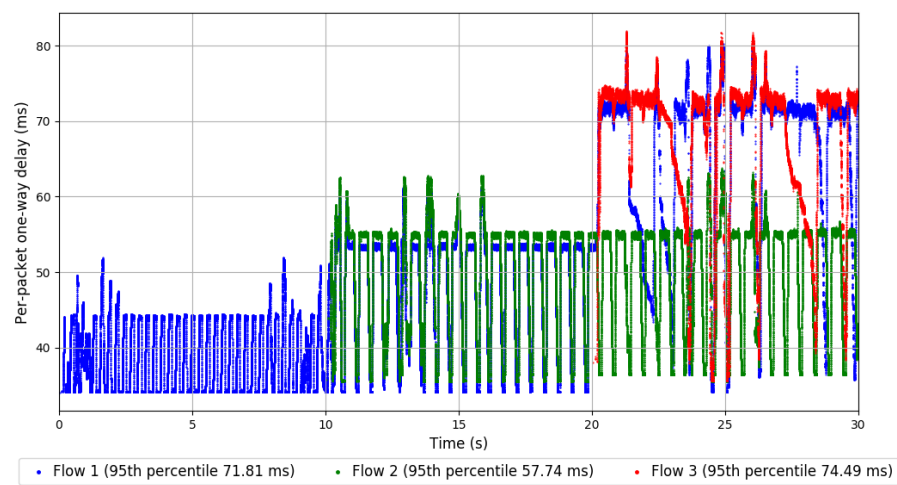
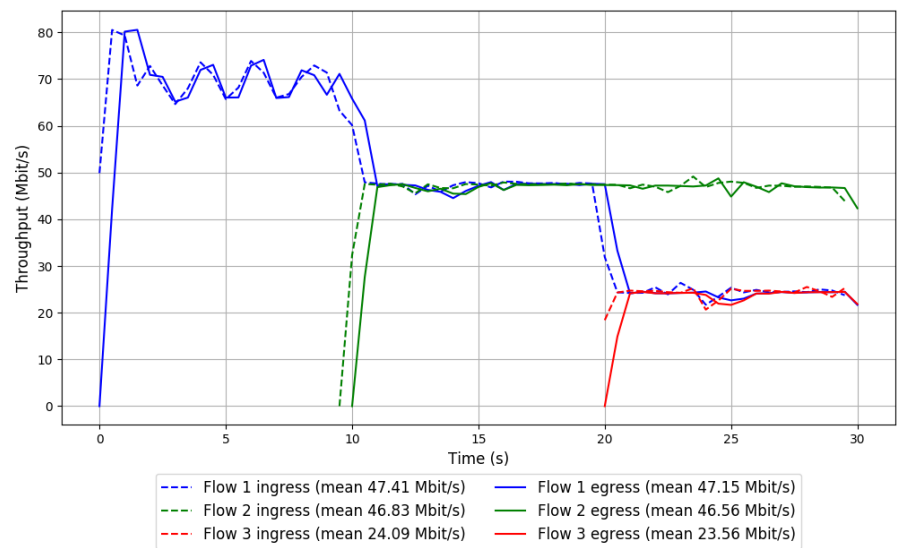


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-07-10 20:24:46
End at: 2018-07-10 20:25:16
Local clock offset: 0.272 ms
Remote clock offset: 2.809 ms

# Below is generated by plot.py at 2018-07-11 00:43:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.94 Mbit/s
95th percentile per-packet one-way delay: 72.579 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 47.15 Mbit/s
95th percentile per-packet one-way delay: 71.806 ms
Loss rate: 0.81%
-- Flow 2:
Average throughput: 46.56 Mbit/s
95th percentile per-packet one-way delay: 57.745 ms
Loss rate: 0.93%
-- Flow 3:
Average throughput: 23.56 Mbit/s
95th percentile per-packet one-way delay: 74.491 ms
Loss rate: 2.92%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-07-10 20:48:39

End at: 2018-07-10 20:49:09

Local clock offset: 0.103 ms

Remote clock offset: 3.298 ms

Below is generated by plot.py at 2018-07-11 00:43:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.15 Mbit/s

95th percentile per-packet one-way delay: 64.067 ms

Loss rate: 1.70%

-- Flow 1:

Average throughput: 50.65 Mbit/s

95th percentile per-packet one-way delay: 63.974 ms

Loss rate: 0.85%

-- Flow 2:

Average throughput: 39.25 Mbit/s

95th percentile per-packet one-way delay: 62.754 ms

Loss rate: 2.37%

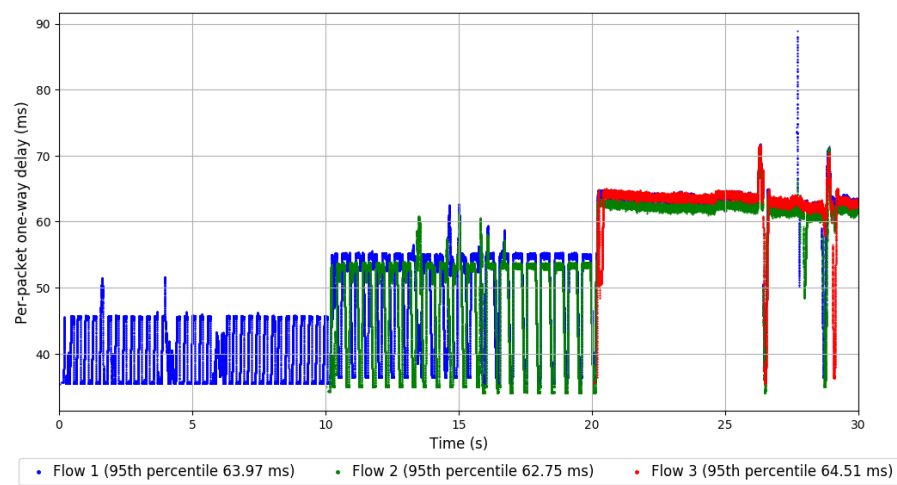
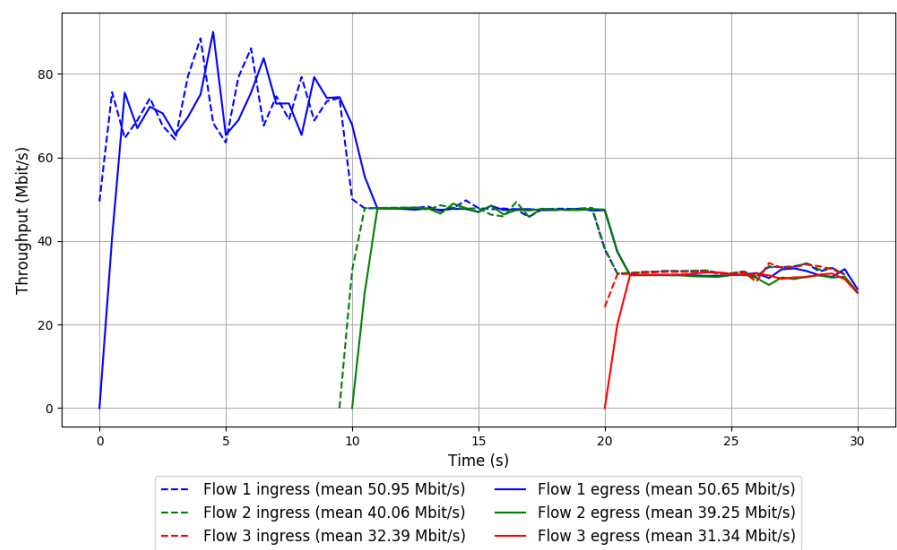
-- Flow 3:

Average throughput: 31.34 Mbit/s

95th percentile per-packet one-way delay: 64.511 ms

Loss rate: 4.04%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-07-10 21:12:40

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

Local clock offset: 0.024 ms

Remote clock offset: 2.97 ms

Below is generated by plot.py at 2018-07-11 00:43:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.42 Mbit/s

95th percentile per-packet one-way delay: 71.858 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 47.37 Mbit/s

95th percentile per-packet one-way delay: 72.365 ms

Loss rate: 0.68%

-- Flow 2:

Average throughput: 46.86 Mbit/s

95th percentile per-packet one-way delay: 55.808 ms

Loss rate: 0.81%

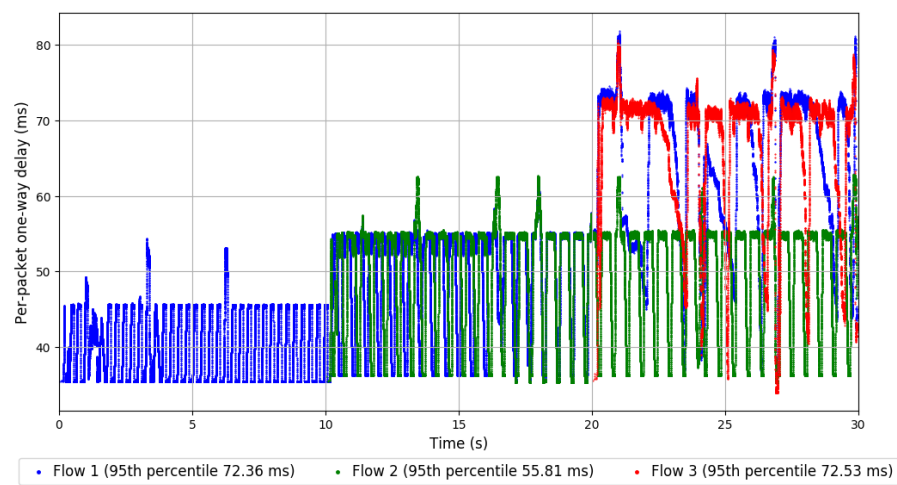
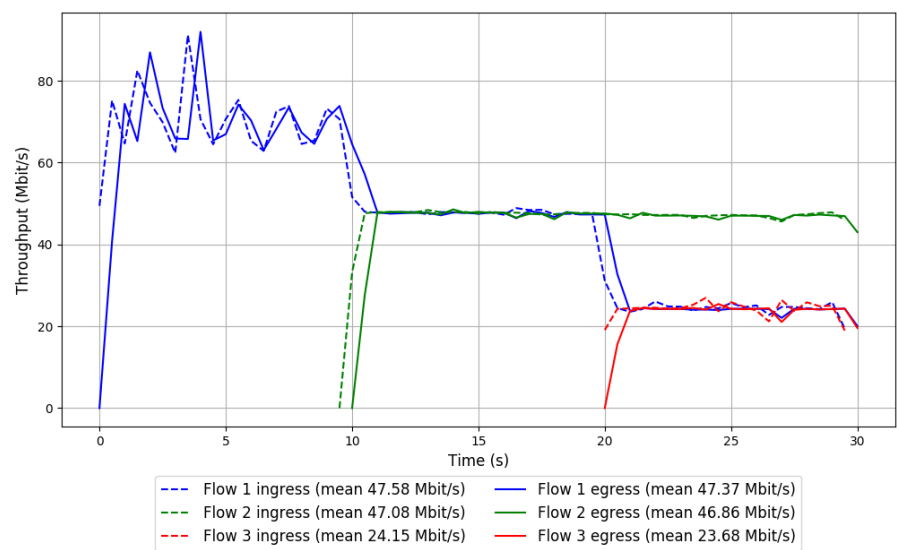
-- Flow 3:

Average throughput: 23.68 Mbit/s

95th percentile per-packet one-way delay: 72.534 ms

Loss rate: 2.65%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-07-10 21:36:19

End at: 2018-07-10 21:36:49

Local clock offset: 0.119 ms

Remote clock offset: 3.193 ms

Below is generated by plot.py at 2018-07-11 00:43:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.88 Mbit/s

95th percentile per-packet one-way delay: 72.044 ms

Loss rate: 1.04%

-- Flow 1:

Average throughput: 48.06 Mbit/s

95th percentile per-packet one-way delay: 71.915 ms

Loss rate: 0.79%

-- Flow 2:

Average throughput: 46.40 Mbit/s

95th percentile per-packet one-way delay: 59.098 ms

Loss rate: 0.97%

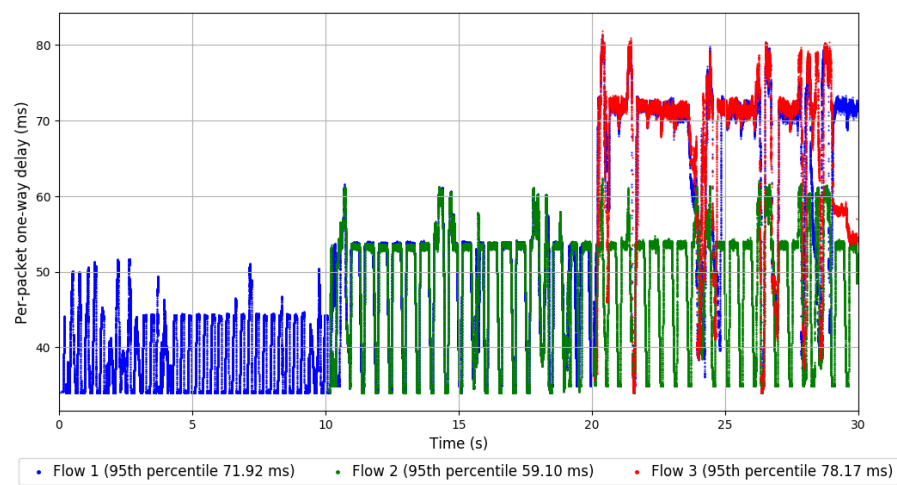
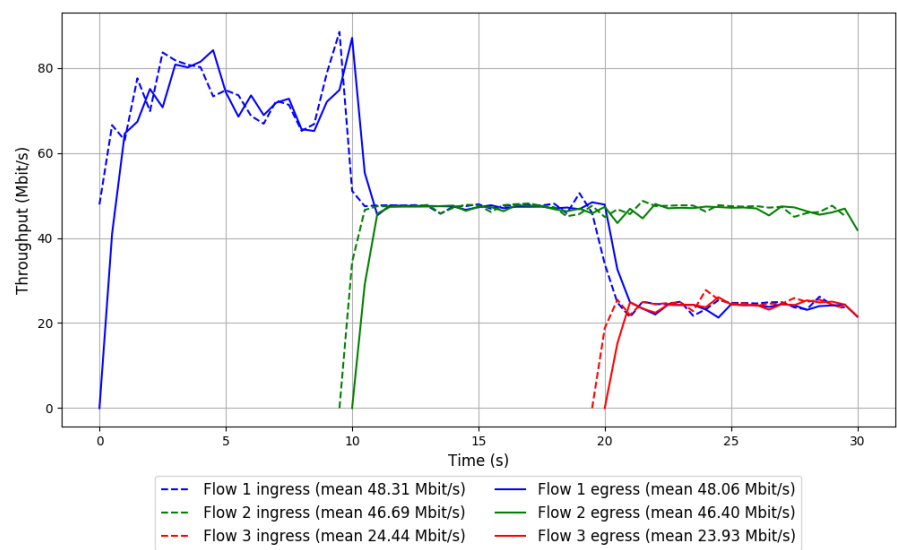
-- Flow 3:

Average throughput: 23.93 Mbit/s

95th percentile per-packet one-way delay: 78.174 ms

Loss rate: 2.76%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-07-10 22:01:06

End at: 2018-07-10 22:01:36

Local clock offset: -0.046 ms

Remote clock offset: 3.663 ms

Below is generated by plot.py at 2018-07-11 00:43:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.65 Mbit/s

95th percentile per-packet one-way delay: 72.582 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 47.61 Mbit/s

95th percentile per-packet one-way delay: 73.065 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 35.70 Mbit/s

95th percentile per-packet one-way delay: 72.031 ms

Loss rate: 0.96%

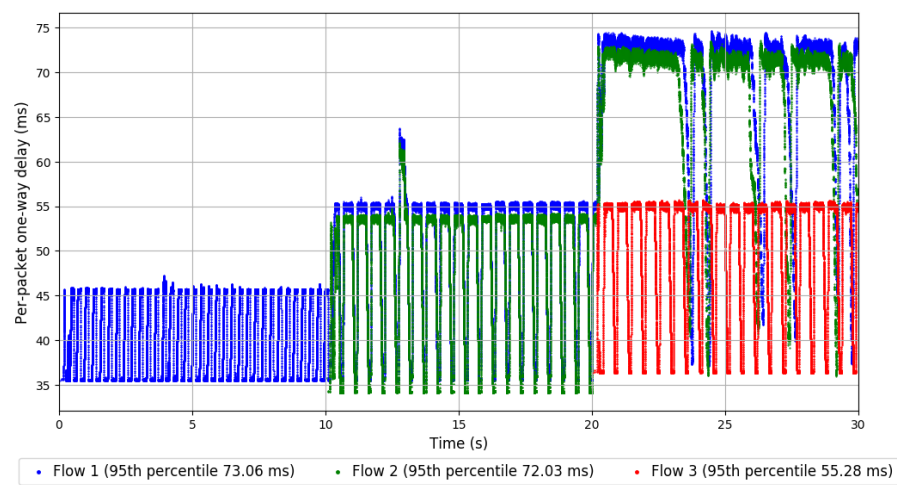
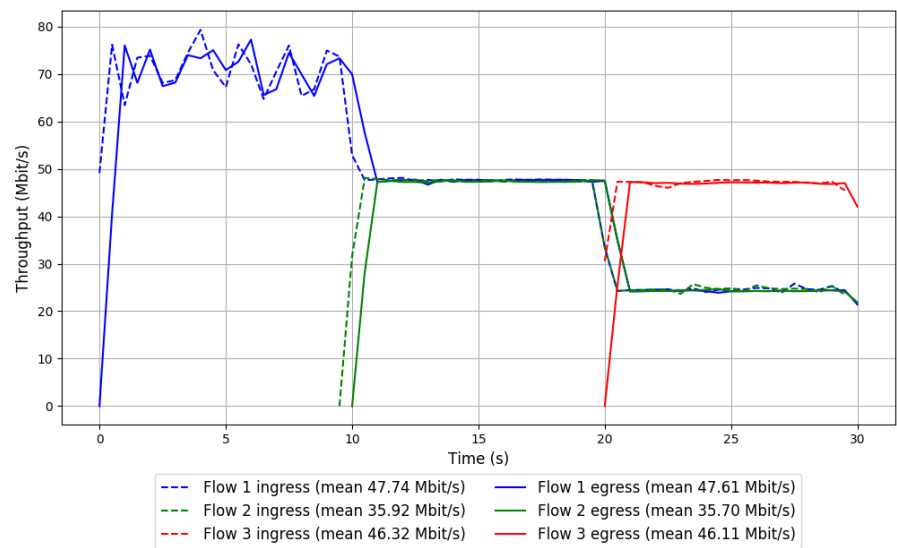
-- Flow 3:

Average throughput: 46.11 Mbit/s

95th percentile per-packet one-way delay: 55.284 ms

Loss rate: 1.25%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-07-10 22:25:06

End at: 2018-07-10 22:25:36

Local clock offset: -0.205 ms

Remote clock offset: 6.72 ms

Below is generated by plot.py at 2018-07-11 00:43:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.70 Mbit/s

95th percentile per-packet one-way delay: 73.432 ms

Loss rate: 1.16%

-- Flow 1:

Average throughput: 55.25 Mbit/s

95th percentile per-packet one-way delay: 58.240 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 35.38 Mbit/s

95th percentile per-packet one-way delay: 73.891 ms

Loss rate: 1.33%

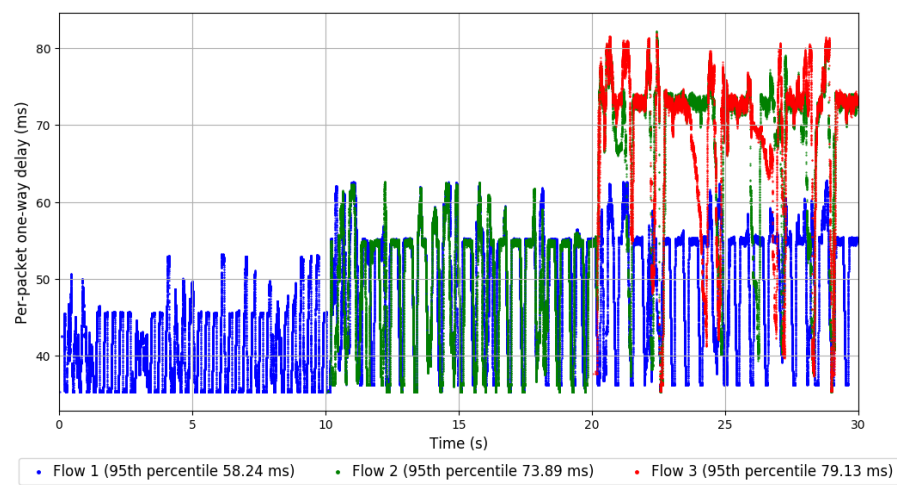
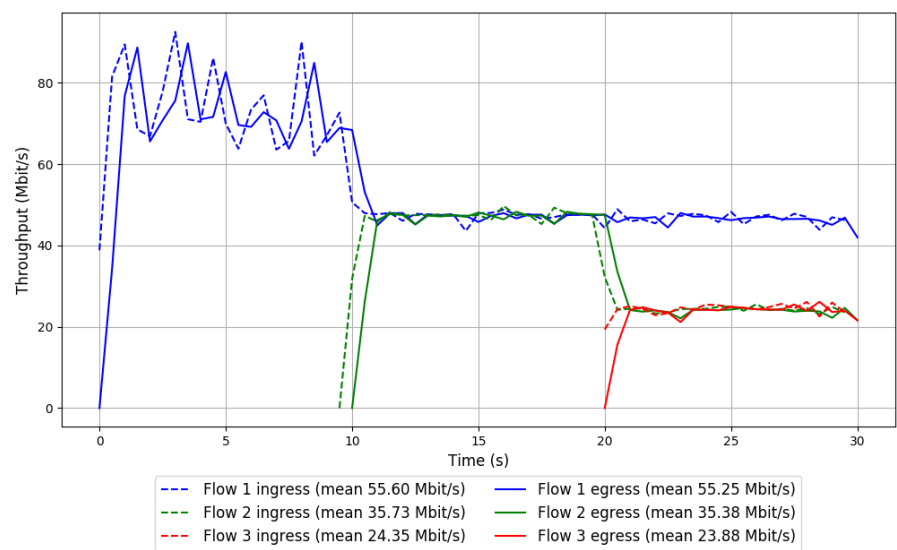
-- Flow 3:

Average throughput: 23.88 Mbit/s

95th percentile per-packet one-way delay: 79.129 ms

Loss rate: 2.74%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-07-10 22:49:57

End at: 2018-07-10 22:50:27

Local clock offset: -0.107 ms

Remote clock offset: 4.336 ms

Below is generated by plot.py at 2018-07-11 00:43:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.99 Mbit/s

95th percentile per-packet one-way delay: 72.340 ms

Loss rate: 1.20%

-- Flow 1:

Average throughput: 48.47 Mbit/s

95th percentile per-packet one-way delay: 71.411 ms

Loss rate: 1.16%

-- Flow 2:

Average throughput: 33.60 Mbit/s

95th percentile per-packet one-way delay: 74.312 ms

Loss rate: 1.15%

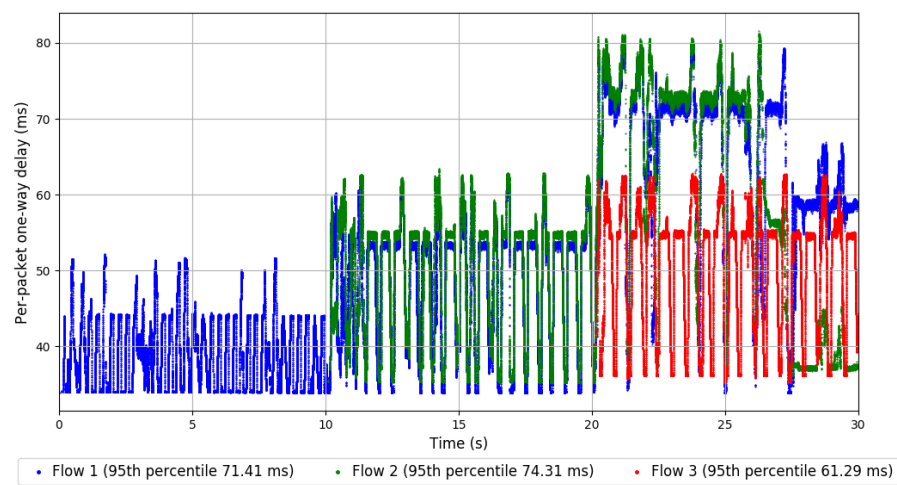
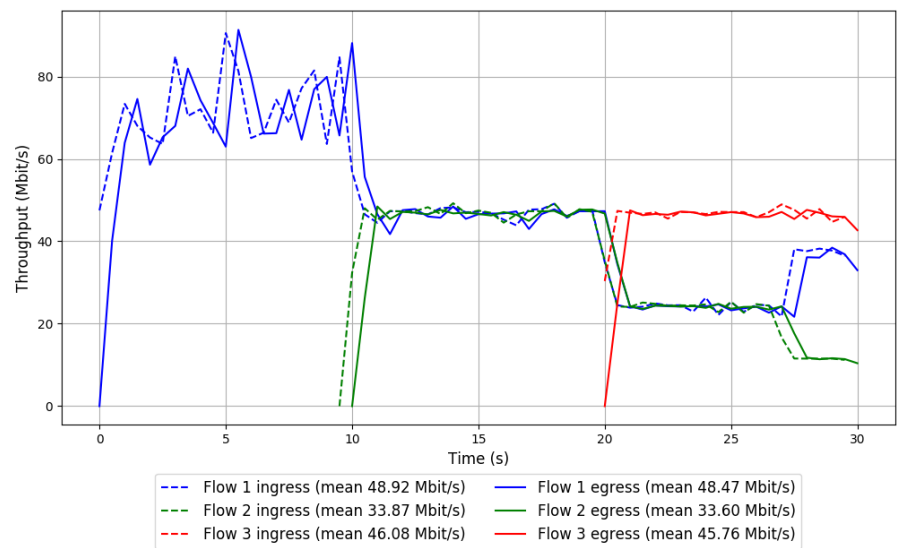
-- Flow 3:

Average throughput: 45.76 Mbit/s

95th percentile per-packet one-way delay: 61.289 ms

Loss rate: 1.41%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-07-10 23:15:16

End at: 2018-07-10 23:15:46

Local clock offset: -0.494 ms

Remote clock offset: 1.861 ms

Below is generated by plot.py at 2018-07-11 00:44:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.34 Mbit/s

95th percentile per-packet one-way delay: 72.090 ms

Loss rate: 1.15%

-- Flow 1:

Average throughput: 48.60 Mbit/s

95th percentile per-packet one-way delay: 71.981 ms

Loss rate: 1.01%

-- Flow 2:

Average throughput: 35.50 Mbit/s

95th percentile per-packet one-way delay: 72.625 ms

Loss rate: 1.36%

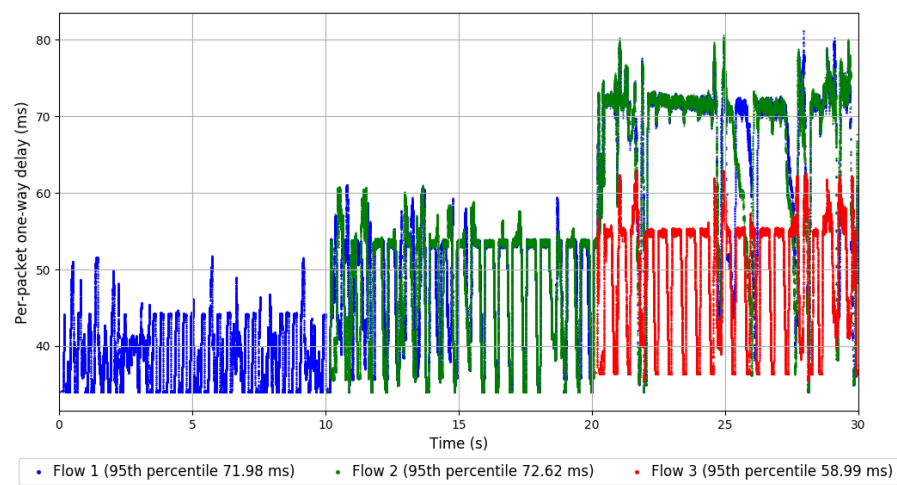
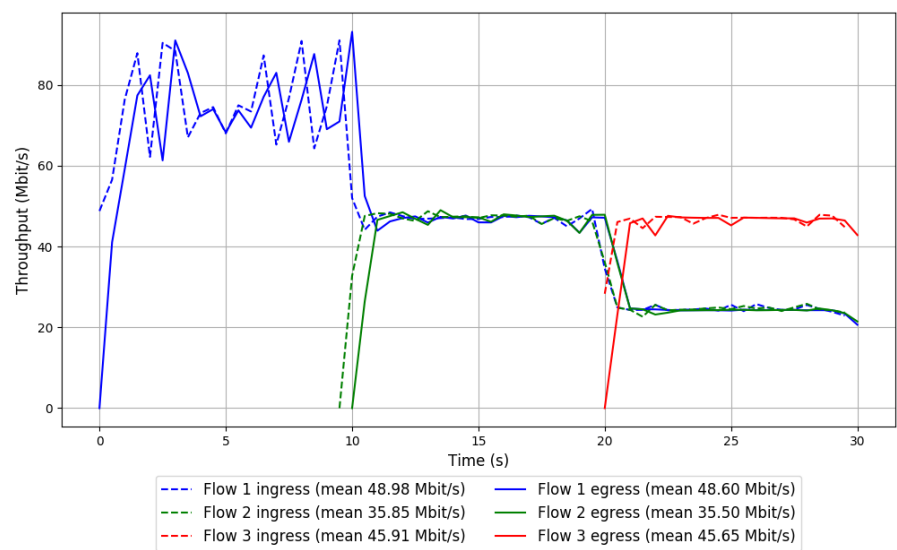
-- Flow 3:

Average throughput: 45.65 Mbit/s

95th percentile per-packet one-way delay: 58.995 ms

Loss rate: 1.27%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-07-10 23:41:09

End at: 2018-07-10 23:41:39

Local clock offset: -0.985 ms

Remote clock offset: 1.436 ms

Below is generated by plot.py at 2018-07-11 00:45:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.88 Mbit/s

95th percentile per-packet one-way delay: 74.938 ms

Loss rate: 1.34%

-- Flow 1:

Average throughput: 55.67 Mbit/s

95th percentile per-packet one-way delay: 59.238 ms

Loss rate: 1.14%

-- Flow 2:

Average throughput: 35.15 Mbit/s

95th percentile per-packet one-way delay: 77.318 ms

Loss rate: 1.45%

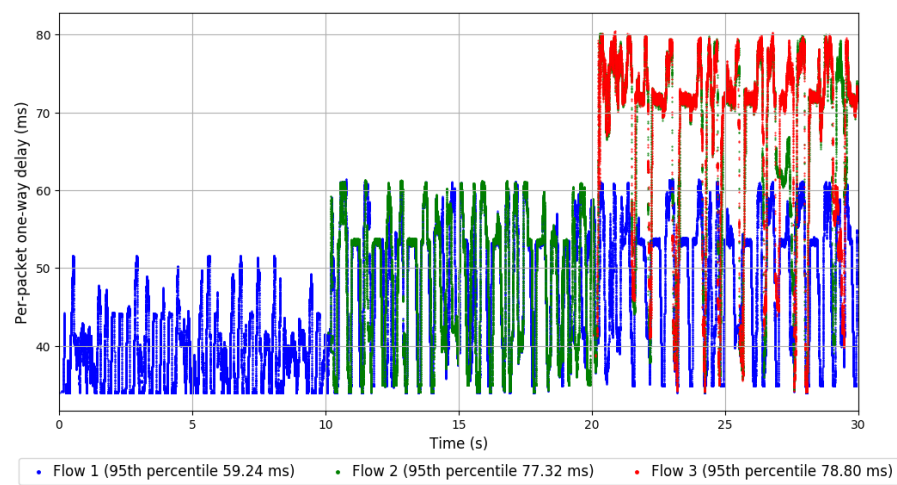
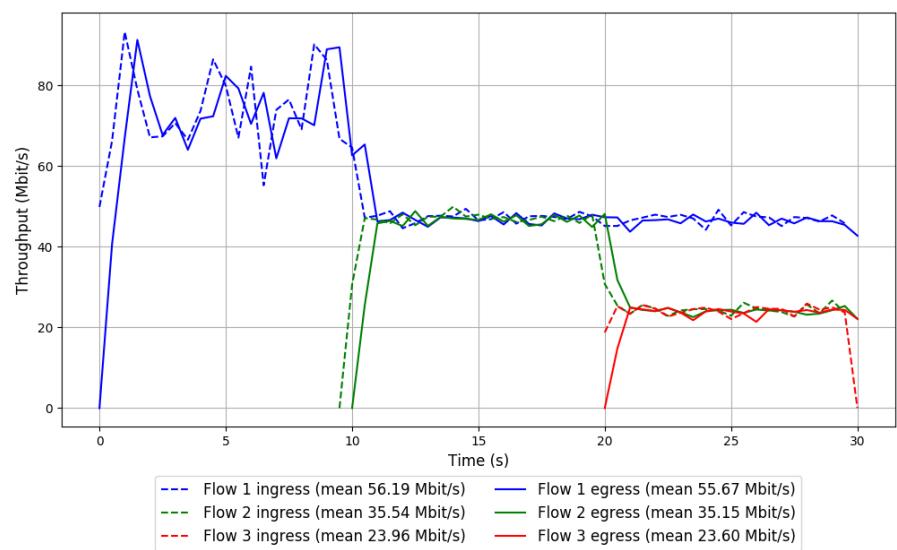
-- Flow 3:

Average throughput: 23.60 Mbit/s

95th percentile per-packet one-way delay: 78.802 ms

Loss rate: 2.44%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-07-11 00:06:49

End at: 2018-07-11 00:07:19

Local clock offset: -0.085 ms

Remote clock offset: 2.517 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.09 Mbit/s

95th percentile per-packet one-way delay: 66.252 ms

Loss rate: 1.51%

-- Flow 1:

Average throughput: 55.97 Mbit/s

95th percentile per-packet one-way delay: 60.730 ms

Loss rate: 1.10%

-- Flow 2:

Average throughput: 39.57 Mbit/s

95th percentile per-packet one-way delay: 72.042 ms

Loss rate: 2.36%

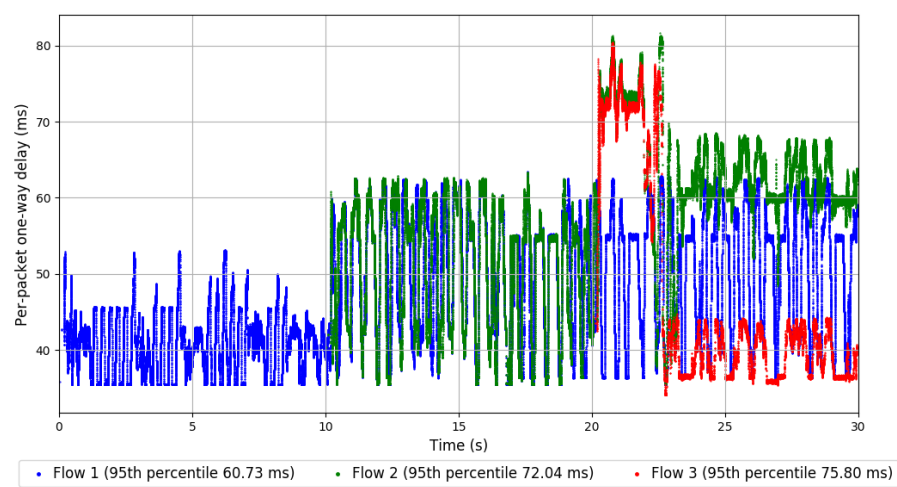
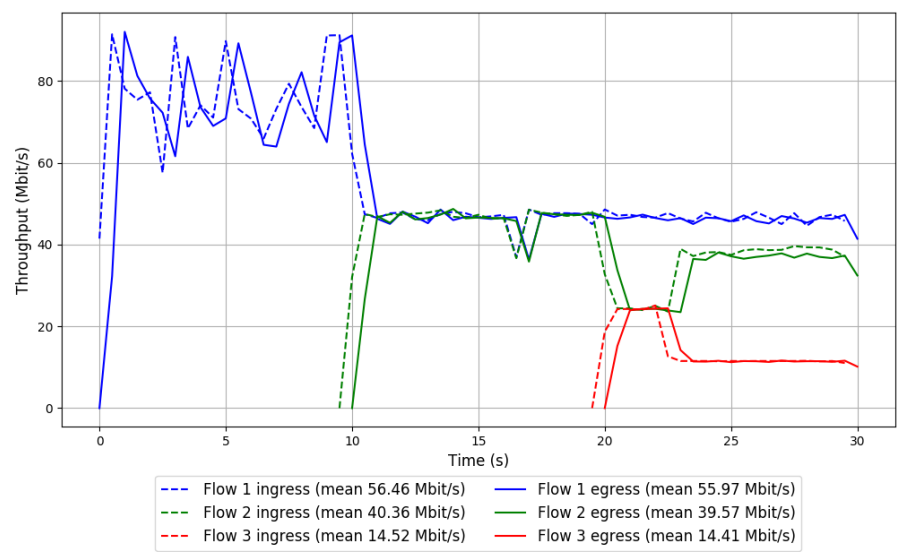
-- Flow 3:

Average throughput: 14.41 Mbit/s

95th percentile per-packet one-way delay: 75.796 ms

Loss rate: 1.55%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-07-10 20:34:18

End at: 2018-07-10 20:34:48

Local clock offset: 0.179 ms

Remote clock offset: 3.007 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.67 Mbit/s

95th percentile per-packet one-way delay: 41.694 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 40.28 Mbit/s

95th percentile per-packet one-way delay: 42.481 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 26.92 Mbit/s

95th percentile per-packet one-way delay: 36.146 ms

Loss rate: 0.35%

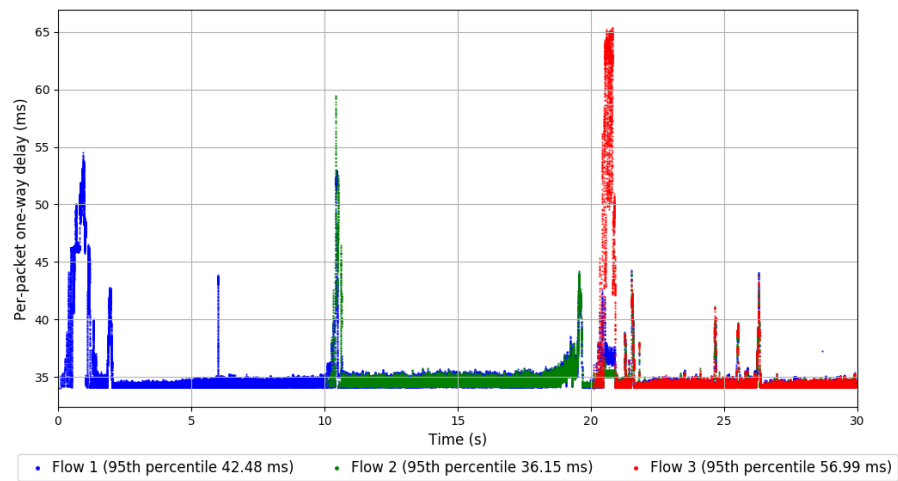
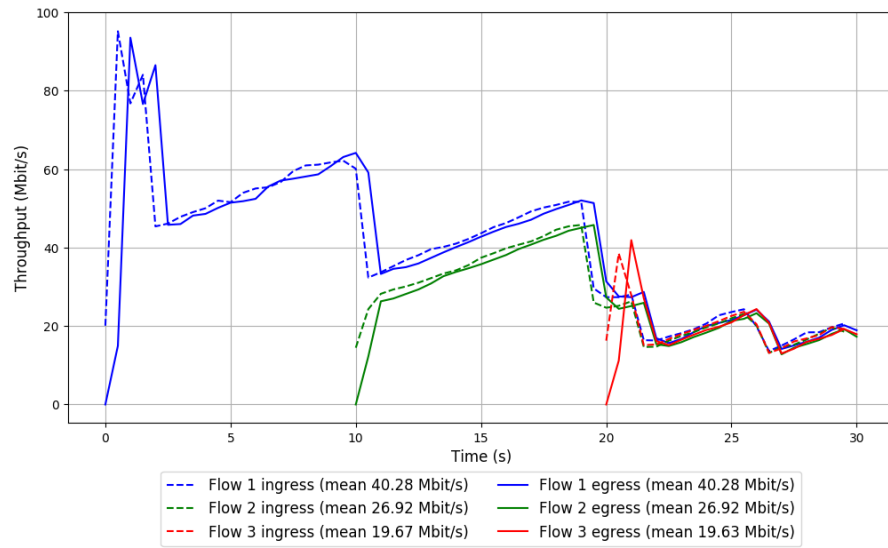
-- Flow 3:

Average throughput: 19.63 Mbit/s

95th percentile per-packet one-way delay: 56.995 ms

Loss rate: 0.90%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-07-10 20:58:29

End at: 2018-07-10 20:58:59

Local clock offset: 0.017 ms

Remote clock offset: 3.652 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 35.76 Mbit/s

95th percentile per-packet one-way delay: 47.731 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 18.76 Mbit/s

95th percentile per-packet one-way delay: 46.098 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 12.85 Mbit/s

95th percentile per-packet one-way delay: 36.853 ms

Loss rate: 0.72%

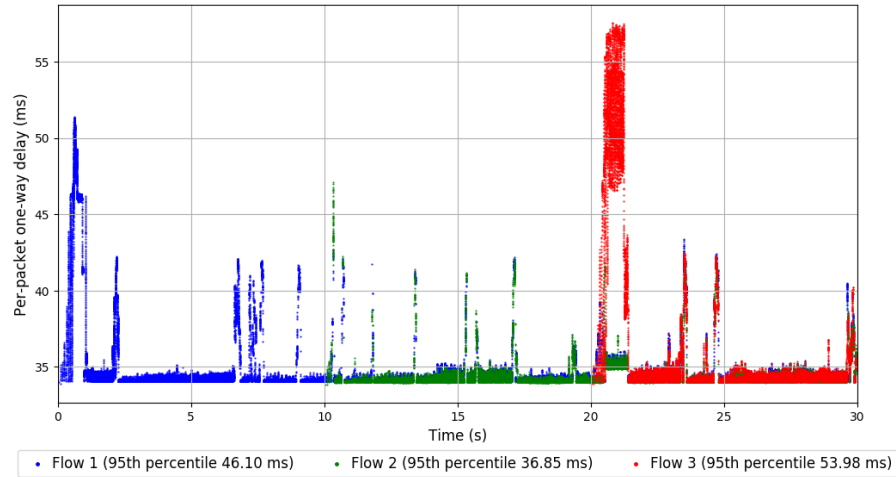
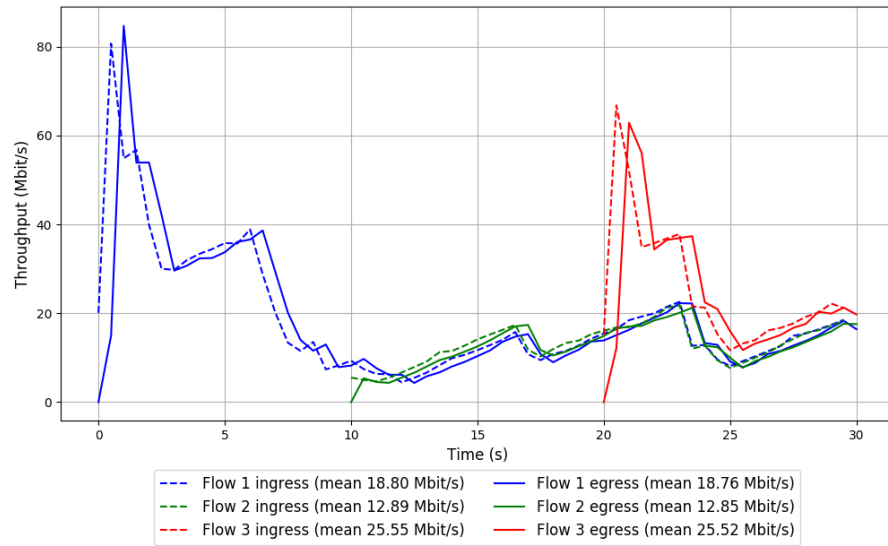
-- Flow 3:

Average throughput: 25.52 Mbit/s

95th percentile per-packet one-way delay: 53.977 ms

Loss rate: 0.81%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-07-10 21:22:15

End at: 2018-07-10 21:22:45

Local clock offset: 0.042 ms

Remote clock offset: 3.081 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.55 Mbit/s

95th percentile per-packet one-way delay: 48.918 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 25.25 Mbit/s

95th percentile per-packet one-way delay: 42.466 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 20.07 Mbit/s

95th percentile per-packet one-way delay: 50.892 ms

Loss rate: 0.61%

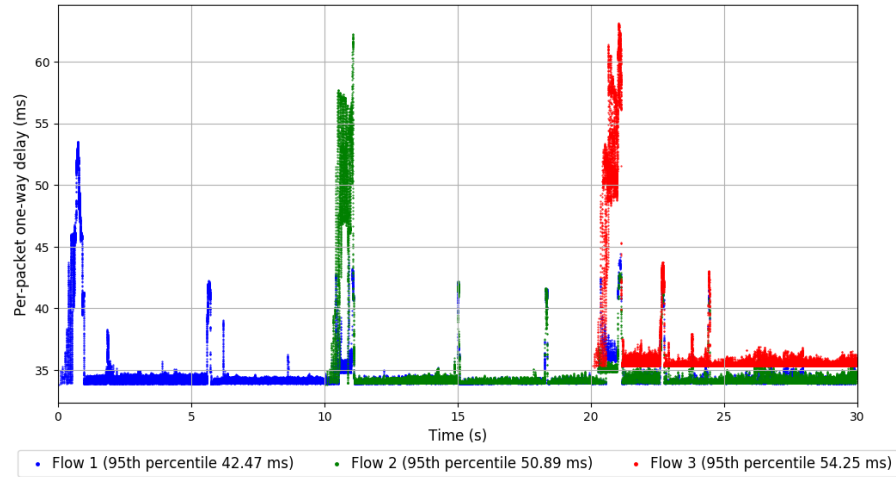
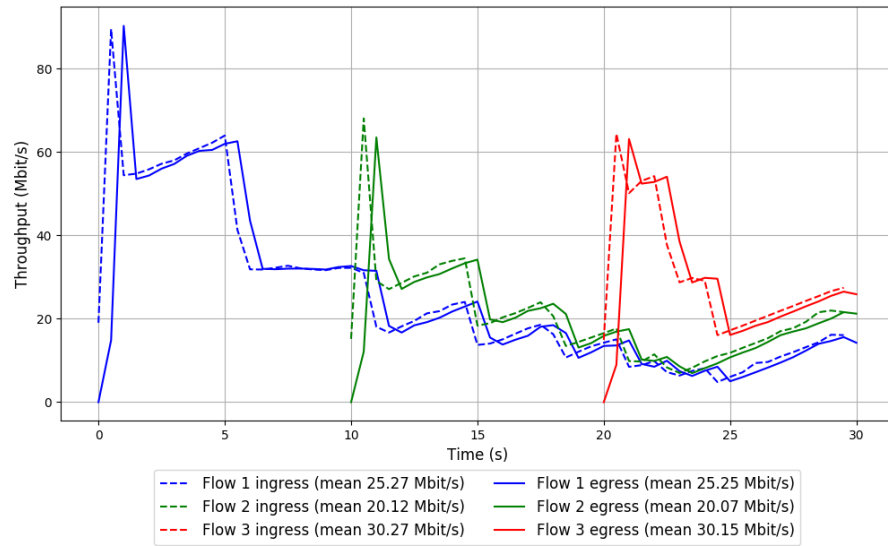
-- Flow 3:

Average throughput: 30.15 Mbit/s

95th percentile per-packet one-way delay: 54.254 ms

Loss rate: 1.12%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-07-10 21:46:13

End at: 2018-07-10 21:46:43

Local clock offset: 0.076 ms

Remote clock offset: 3.461 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 65.91 Mbit/s

95th percentile per-packet one-way delay: 41.920 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 36.79 Mbit/s

95th percentile per-packet one-way delay: 44.739 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 33.64 Mbit/s

95th percentile per-packet one-way delay: 38.078 ms

Loss rate: 0.33%

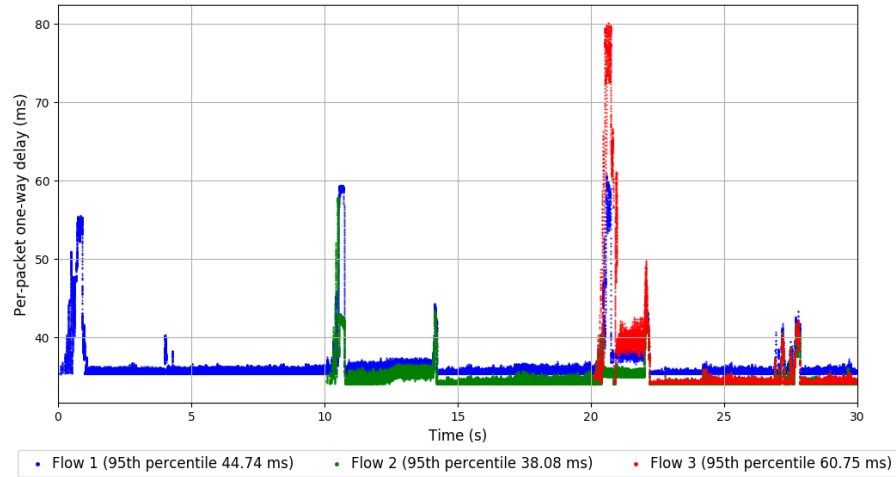
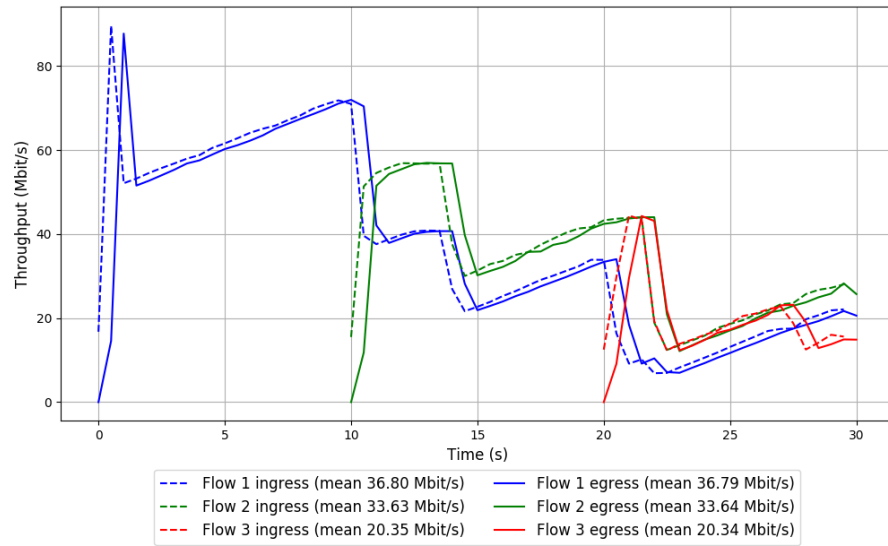
-- Flow 3:

Average throughput: 20.34 Mbit/s

95th percentile per-packet one-way delay: 60.746 ms

Loss rate: 0.74%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

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

End at: 2018-07-10 22:11:24

Local clock offset: -0.098 ms

Remote clock offset: 4.811 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.34 Mbit/s

95th percentile per-packet one-way delay: 45.842 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 42.88 Mbit/s

95th percentile per-packet one-way delay: 42.841 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 38.50 Mbit/s

95th percentile per-packet one-way delay: 49.758 ms

Loss rate: 0.27%

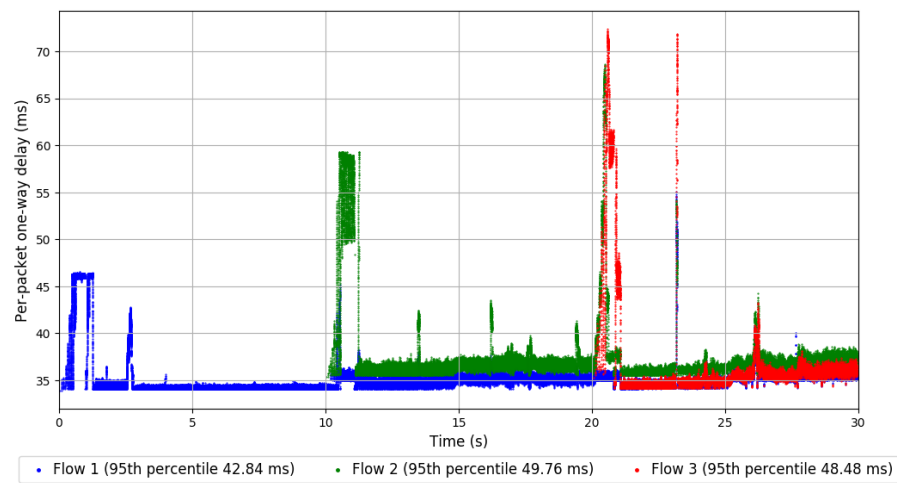
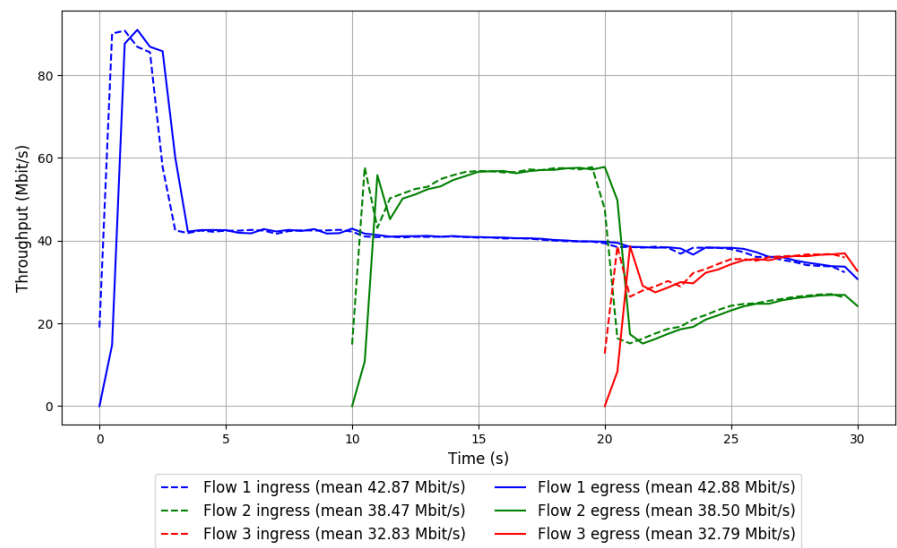
-- Flow 3:

Average throughput: 32.79 Mbit/s

95th percentile per-packet one-way delay: 48.475 ms

Loss rate: 0.83%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-07-10 22:34:57

End at: 2018-07-10 22:35:27

Local clock offset: -0.08 ms

Remote clock offset: 7.313 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 33.75 Mbit/s

95th percentile per-packet one-way delay: 44.202 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 18.34 Mbit/s

95th percentile per-packet one-way delay: 46.840 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 12.30 Mbit/s

95th percentile per-packet one-way delay: 39.330 ms

Loss rate: 0.67%

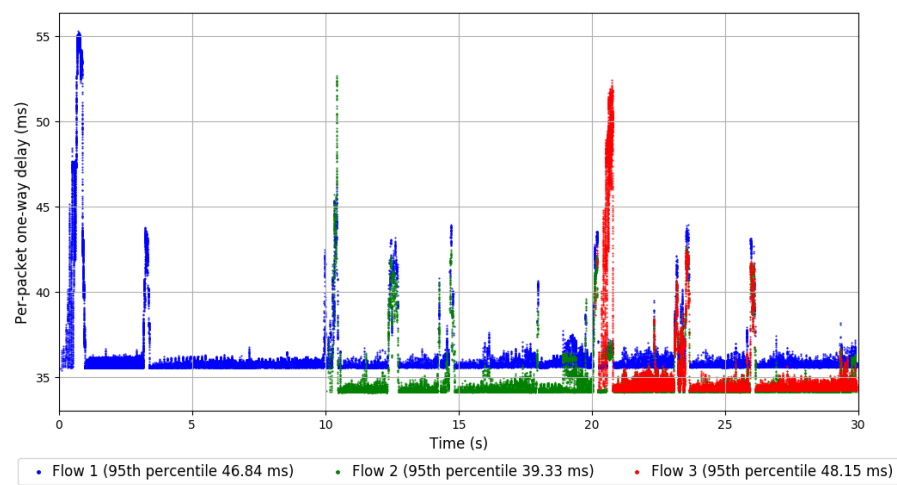
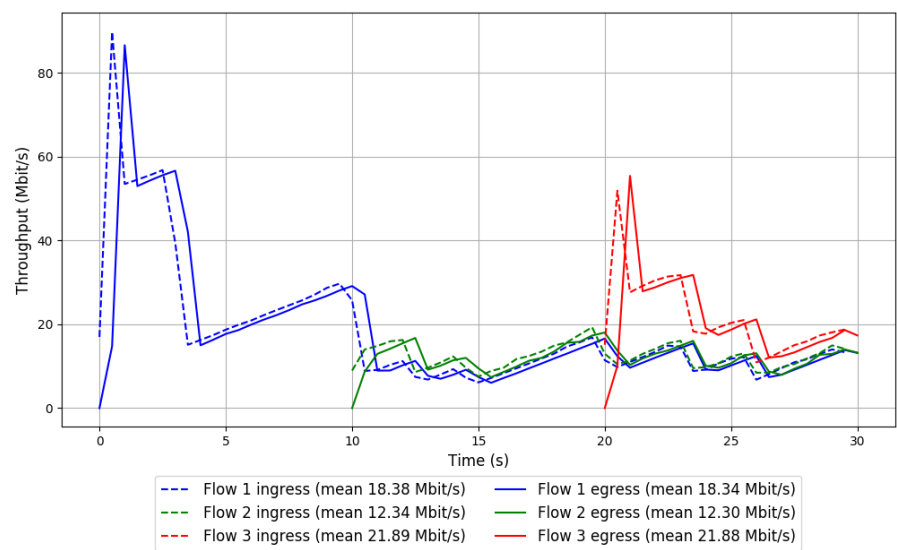
-- Flow 3:

Average throughput: 21.88 Mbit/s

95th percentile per-packet one-way delay: 48.152 ms

Loss rate: 0.78%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-07-10 23:00:12

End at: 2018-07-10 23:00:42

Local clock offset: -0.2 ms

Remote clock offset: 2.73 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.10 Mbit/s

95th percentile per-packet one-way delay: 43.886 ms

Loss rate: 0.98%

-- Flow 1:

Average throughput: 5.64 Mbit/s

95th percentile per-packet one-way delay: 41.461 ms

Loss rate: 0.87%

-- Flow 2:

Average throughput: 9.81 Mbit/s

95th percentile per-packet one-way delay: 53.828 ms

Loss rate: 1.06%

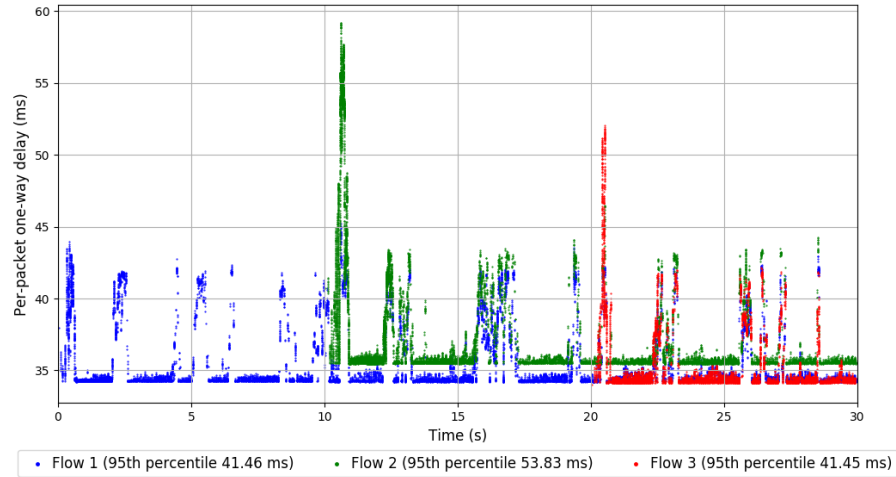
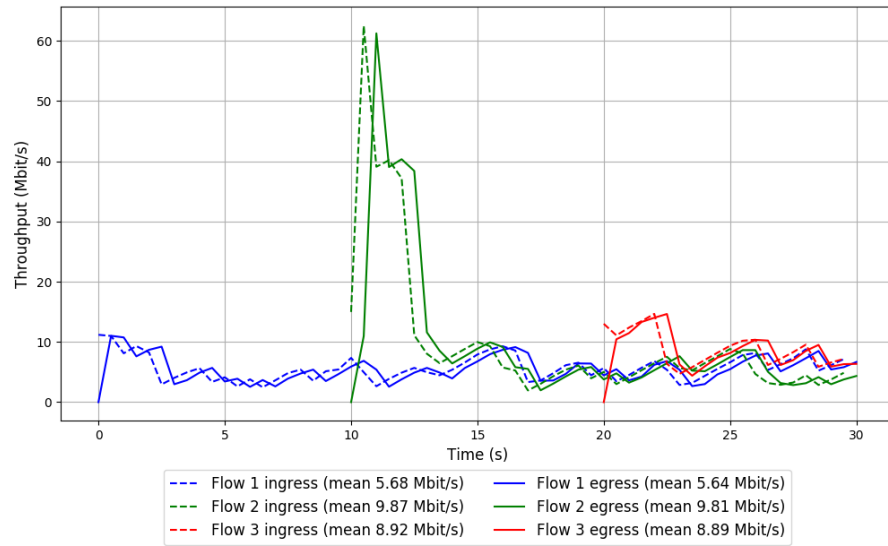
-- Flow 3:

Average throughput: 8.89 Mbit/s

95th percentile per-packet one-way delay: 41.445 ms

Loss rate: 1.03%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-07-10 23:25:37

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

Local clock offset: -0.766 ms

Remote clock offset: 1.788 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 34.97 Mbit/s

95th percentile per-packet one-way delay: 48.007 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 15.80 Mbit/s

95th percentile per-packet one-way delay: 45.954 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 22.47 Mbit/s

95th percentile per-packet one-way delay: 49.184 ms

Loss rate: 0.46%

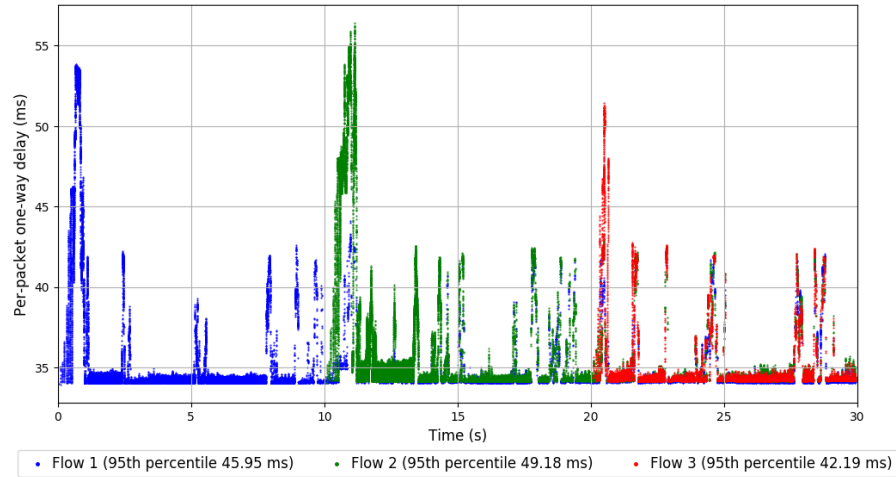
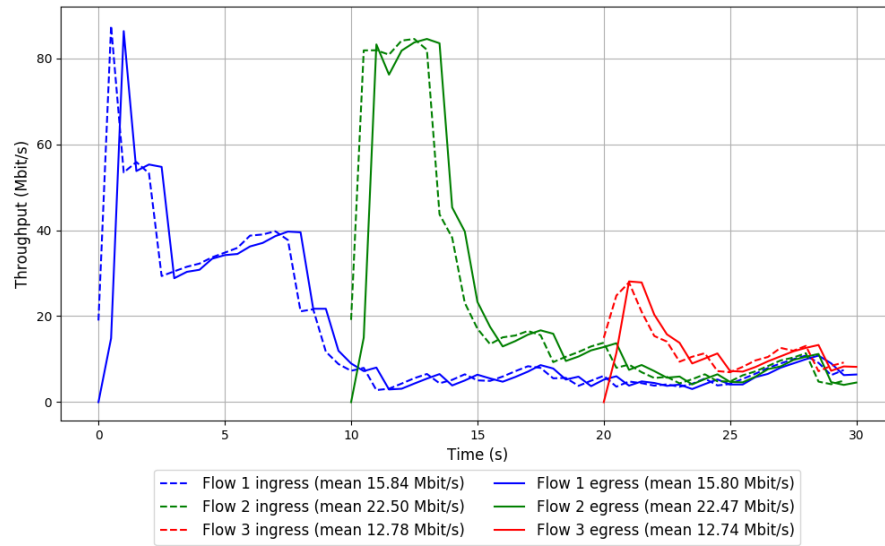
-- Flow 3:

Average throughput: 12.74 Mbit/s

95th percentile per-packet one-way delay: 42.194 ms

Loss rate: 0.99%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-07-10 23:51:59

End at: 2018-07-10 23:52:29

Local clock offset: -0.64 ms

Remote clock offset: 1.578 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 34.44 Mbit/s

95th percentile per-packet one-way delay: 51.158 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 14.23 Mbit/s

95th percentile per-packet one-way delay: 47.709 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 16.95 Mbit/s

95th percentile per-packet one-way delay: 51.455 ms

Loss rate: 0.62%

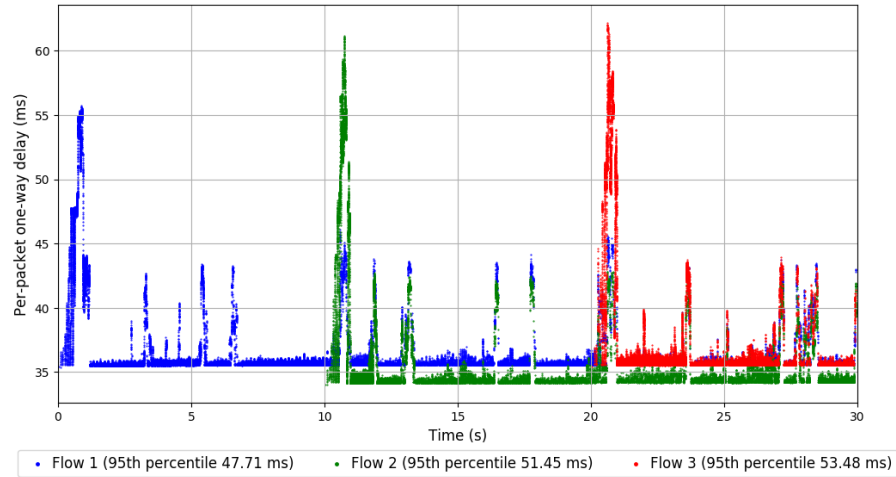
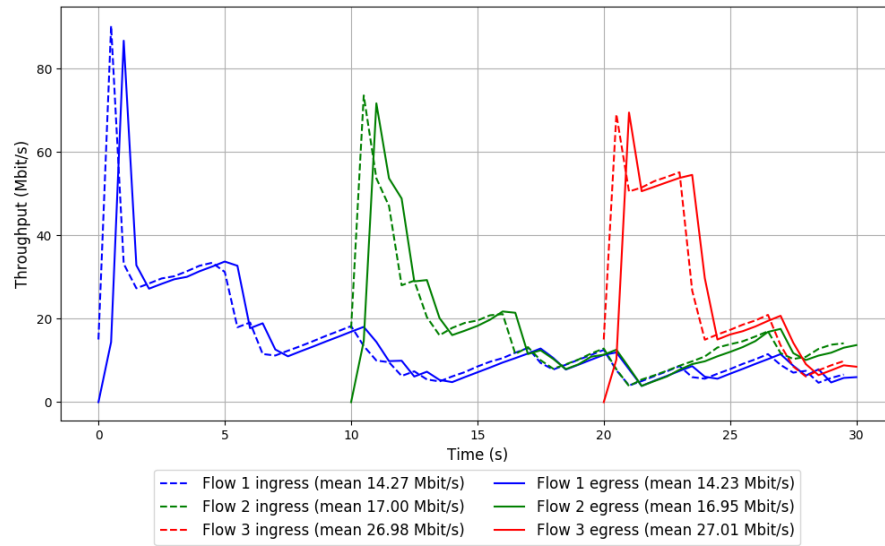
-- Flow 3:

Average throughput: 27.01 Mbit/s

95th percentile per-packet one-way delay: 53.481 ms

Loss rate: 0.58%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-07-11 00:17:23

End at: 2018-07-11 00:17:53

Local clock offset: 0.312 ms

Remote clock offset: 2.824 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.32 Mbit/s

95th percentile per-packet one-way delay: 43.454 ms

Loss rate: 1.55%

-- Flow 1:

Average throughput: 6.67 Mbit/s

95th percentile per-packet one-way delay: 41.788 ms

Loss rate: 1.28%

-- Flow 2:

Average throughput: 3.99 Mbit/s

95th percentile per-packet one-way delay: 42.960 ms

Loss rate: 1.45%

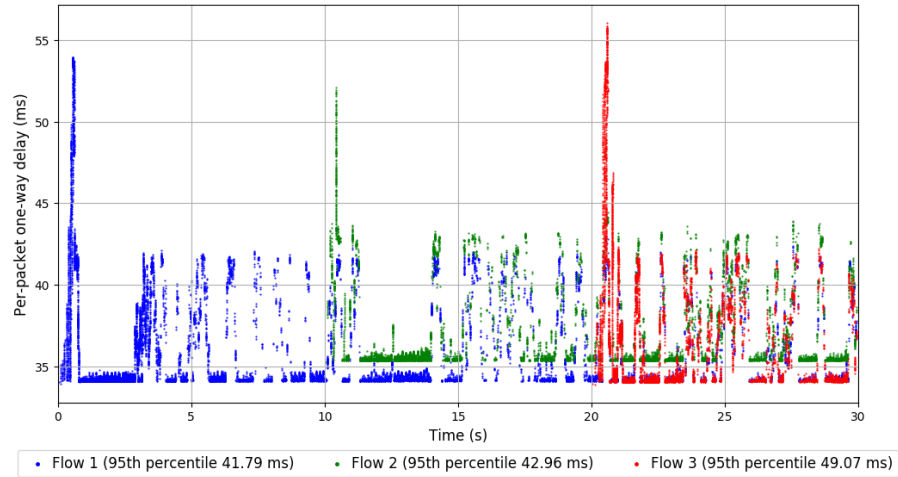
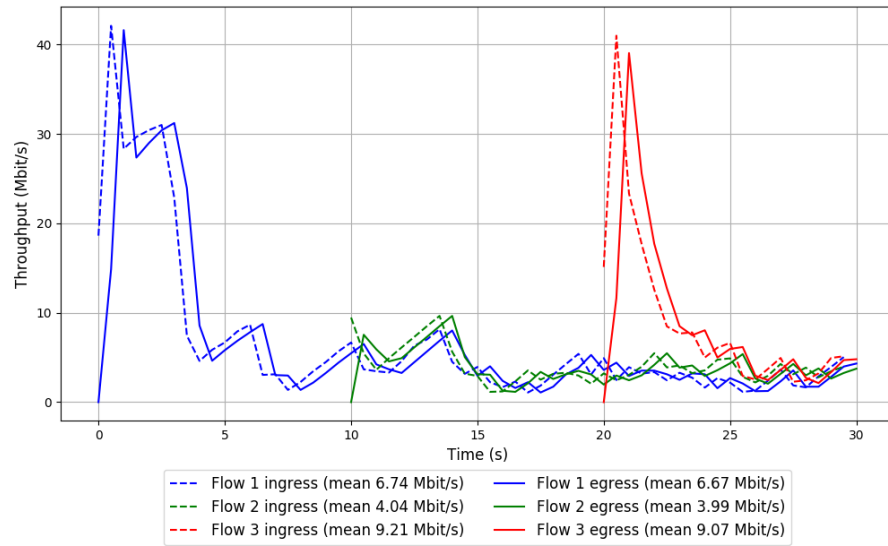
-- Flow 3:

Average throughput: 9.07 Mbit/s

95th percentile per-packet one-way delay: 49.073 ms

Loss rate: 2.26%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-07-10 20:21:51

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

Local clock offset: 0.206 ms

Remote clock offset: 2.796 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.86 Mbit/s

95th percentile per-packet one-way delay: 70.380 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 57.65 Mbit/s

95th percentile per-packet one-way delay: 57.379 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 34.06 Mbit/s

95th percentile per-packet one-way delay: 78.723 ms

Loss rate: 0.61%

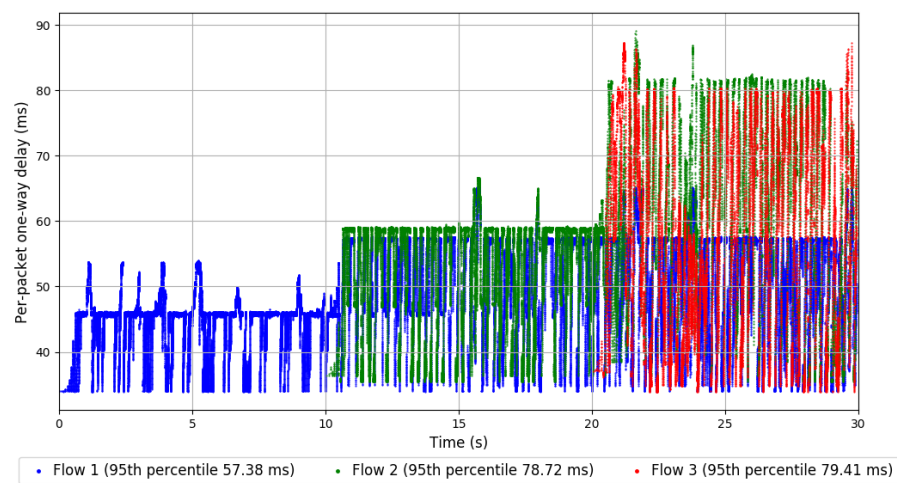
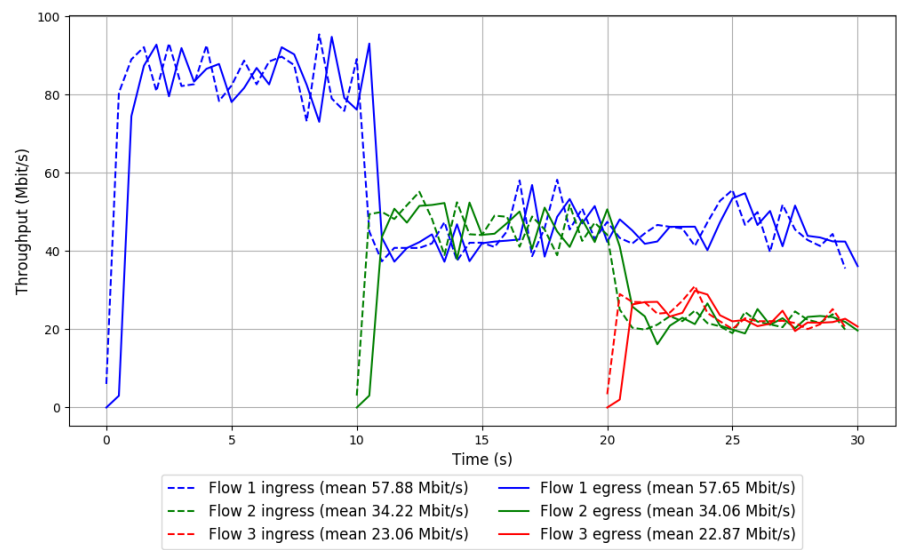
-- Flow 3:

Average throughput: 22.87 Mbit/s

95th percentile per-packet one-way delay: 79.405 ms

Loss rate: 1.17%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-07-10 20:45:38

End at: 2018-07-10 20:46:08

Local clock offset: 0.114 ms

Remote clock offset: 3.299 ms

Below is generated by plot.py at 2018-07-11 00:45:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.95 Mbit/s

95th percentile per-packet one-way delay: 74.703 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 49.43 Mbit/s

95th percentile per-packet one-way delay: 74.416 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 44.88 Mbit/s

95th percentile per-packet one-way delay: 58.966 ms

Loss rate: 0.67%

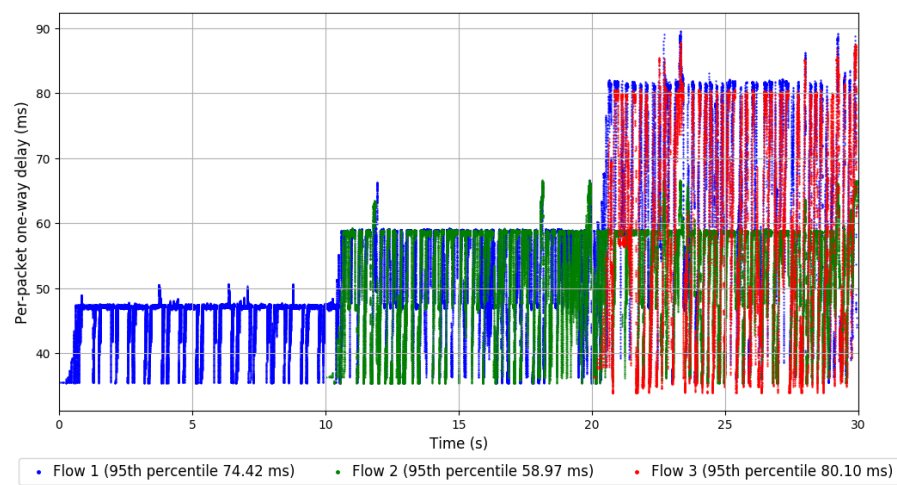
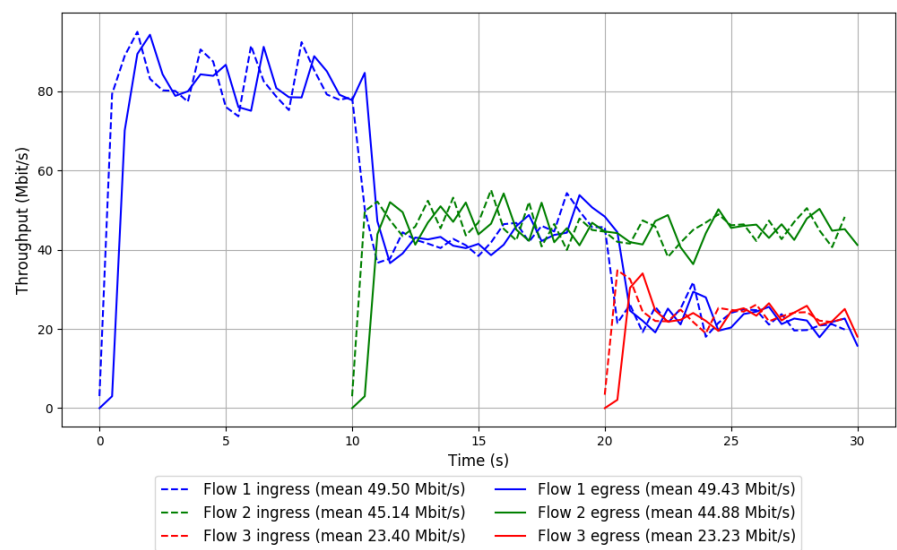
-- Flow 3:

Average throughput: 23.23 Mbit/s

95th percentile per-packet one-way delay: 80.096 ms

Loss rate: 1.46%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-07-10 21:09:41

End at: 2018-07-10 21:10:11

Local clock offset: 0.102 ms

Remote clock offset: 3.03 ms

Below is generated by plot.py at 2018-07-11 00:45:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.43 Mbit/s

95th percentile per-packet one-way delay: 74.292 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 50.14 Mbit/s

95th percentile per-packet one-way delay: 75.906 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 45.10 Mbit/s

95th percentile per-packet one-way delay: 57.657 ms

Loss rate: 0.64%

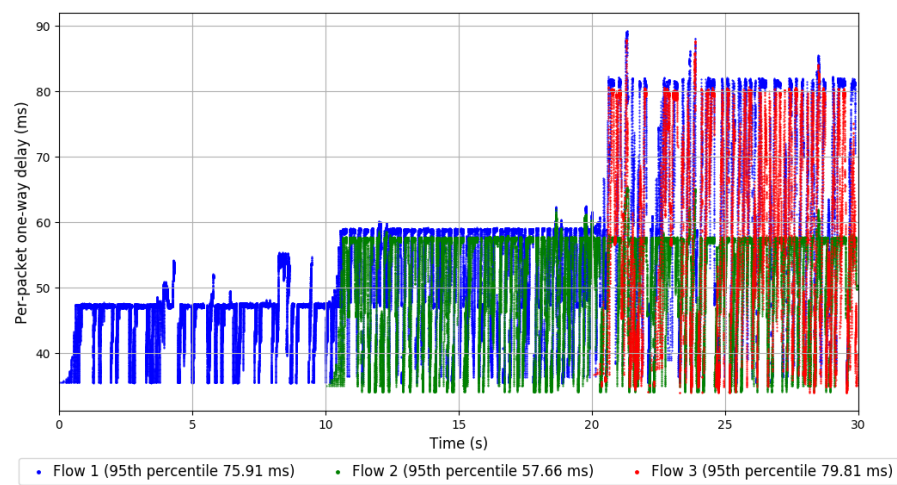
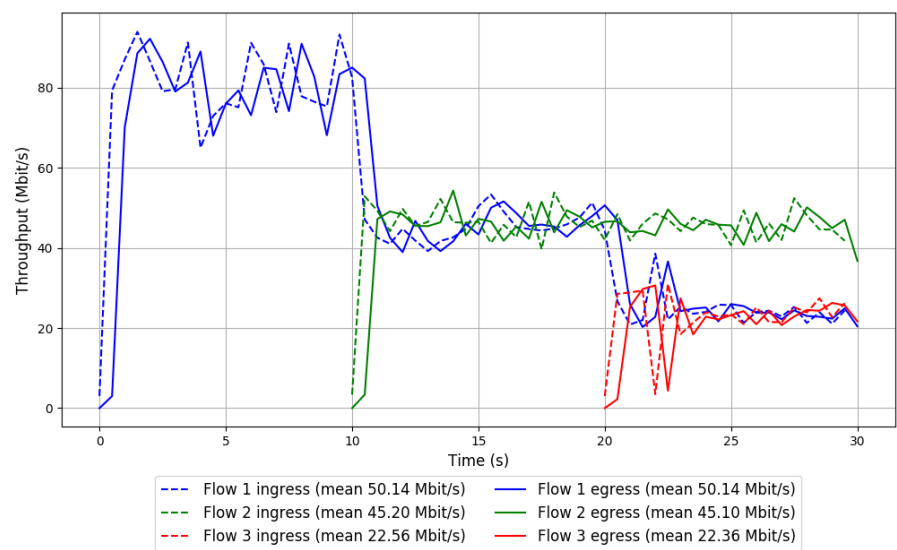
-- Flow 3:

Average throughput: 22.36 Mbit/s

95th percentile per-packet one-way delay: 79.812 ms

Loss rate: 1.57%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-07-10 21:33:15

End at: 2018-07-10 21:33:45

Local clock offset: 0.138 ms

Remote clock offset: 3.211 ms

Below is generated by plot.py at 2018-07-11 00:46:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.53 Mbit/s

95th percentile per-packet one-way delay: 68.573 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 53.06 Mbit/s

95th percentile per-packet one-way delay: 67.098 ms

Loss rate: 0.68%

-- Flow 2:

Average throughput: 36.06 Mbit/s

95th percentile per-packet one-way delay: 68.618 ms

Loss rate: 0.82%

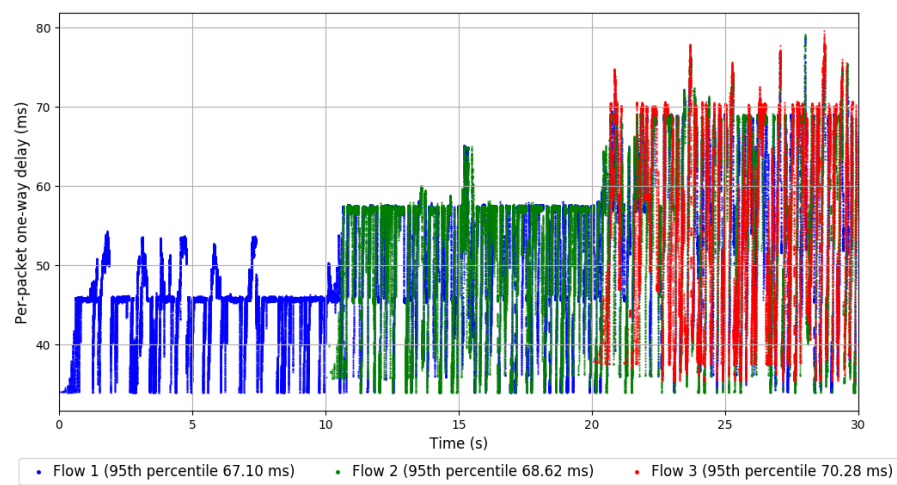
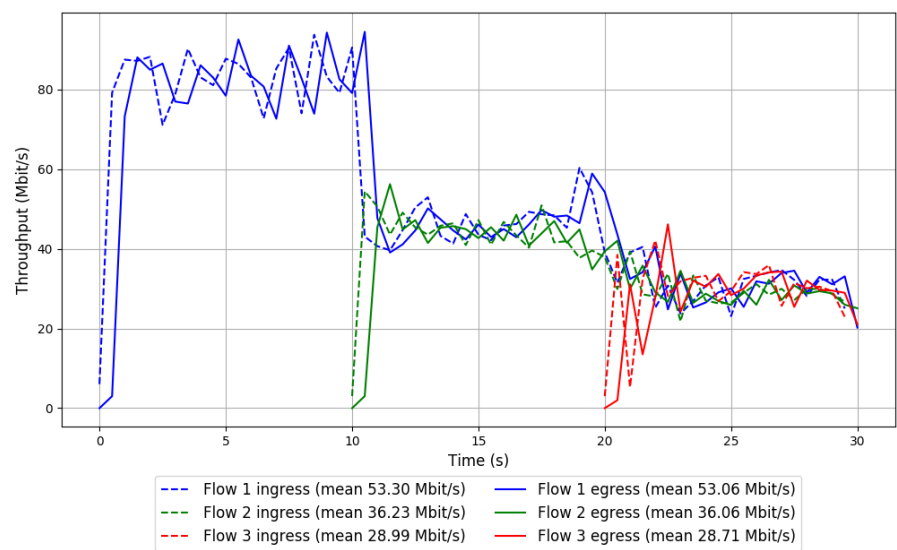
-- Flow 3:

Average throughput: 28.71 Mbit/s

95th percentile per-packet one-way delay: 70.285 ms

Loss rate: 1.68%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-07-10 21:58:06

End at: 2018-07-10 21:58:36

Local clock offset: -0.021 ms

Remote clock offset: 3.591 ms

Below is generated by plot.py at 2018-07-11 00:46:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.27 Mbit/s

95th percentile per-packet one-way delay: 73.344 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 58.53 Mbit/s

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

Loss rate: 0.21%

-- Flow 2:

Average throughput: 34.38 Mbit/s

95th percentile per-packet one-way delay: 79.454 ms

Loss rate: 0.48%

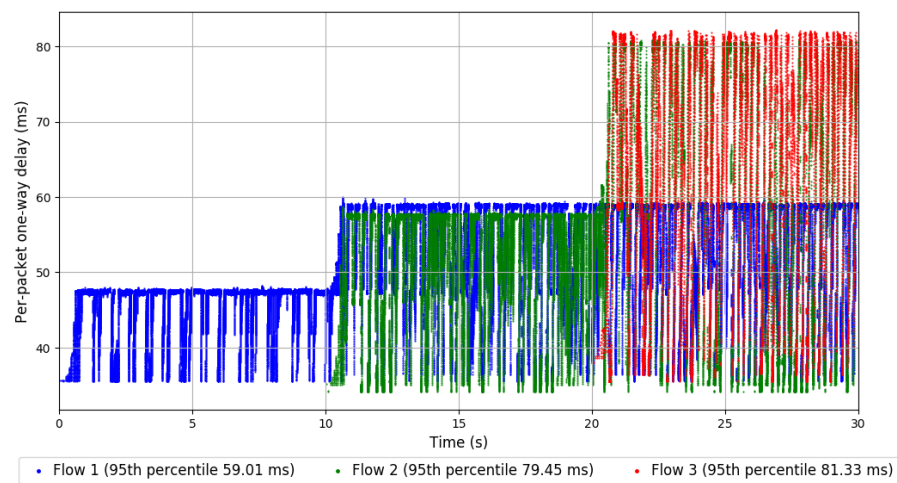
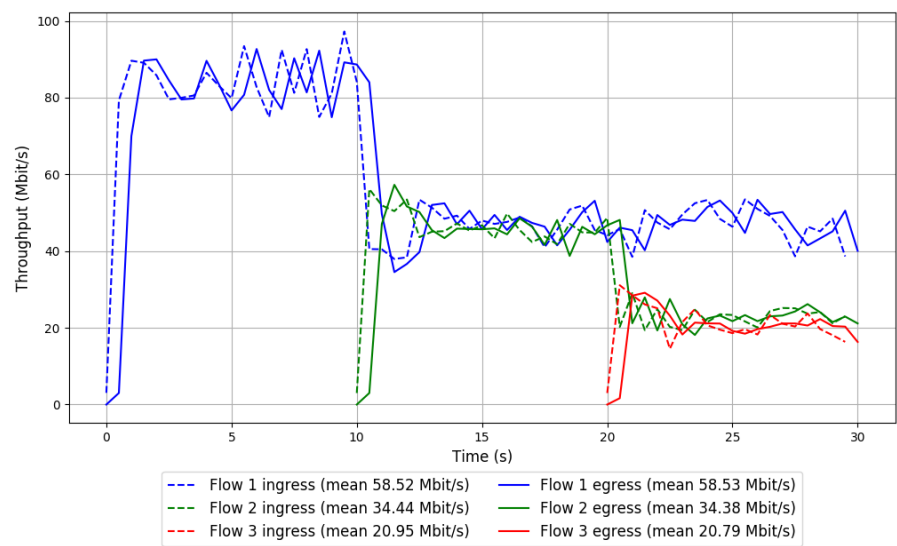
-- Flow 3:

Average throughput: 20.79 Mbit/s

95th percentile per-packet one-way delay: 81.326 ms

Loss rate: 0.67%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

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

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

Local clock offset: -0.197 ms

Remote clock offset: 6.413 ms

Below is generated by plot.py at 2018-07-11 00:46:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.46 Mbit/s

95th percentile per-packet one-way delay: 68.621 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 52.99 Mbit/s

95th percentile per-packet one-way delay: 65.666 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 39.27 Mbit/s

95th percentile per-packet one-way delay: 68.608 ms

Loss rate: 0.58%

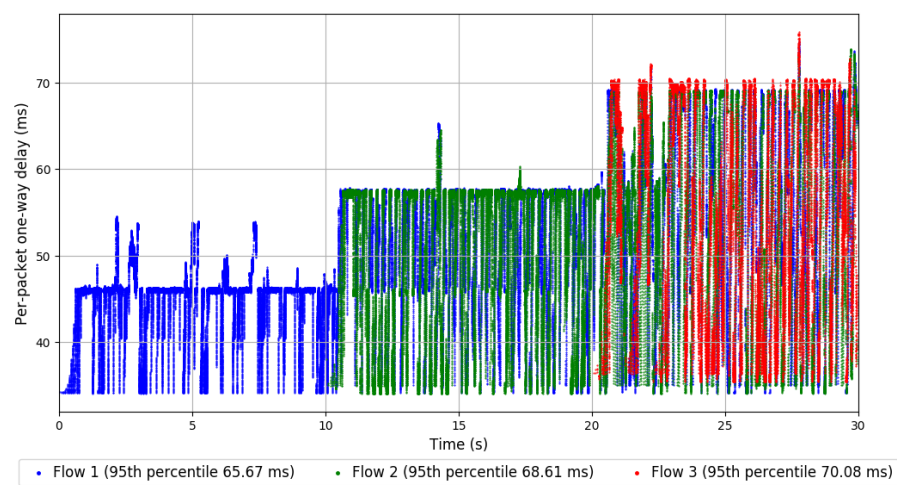
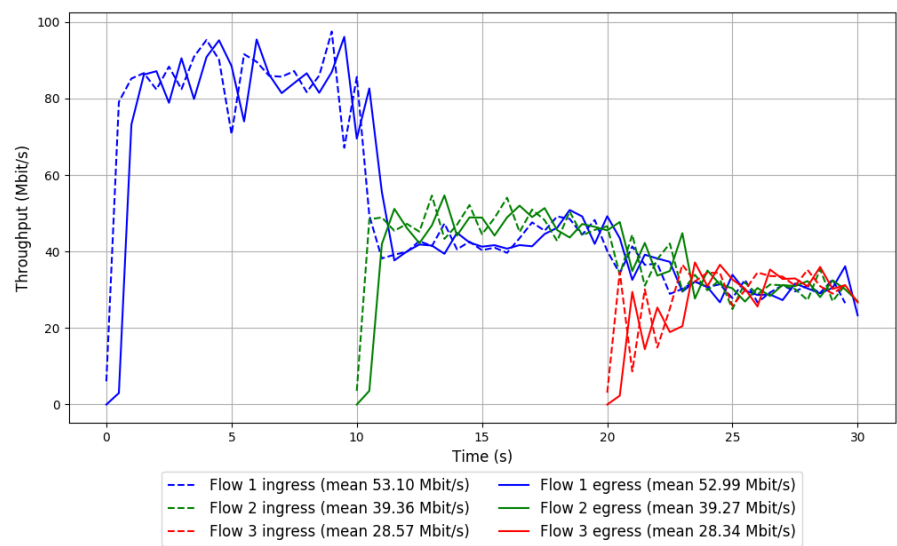
-- Flow 3:

Average throughput: 28.34 Mbit/s

95th percentile per-packet one-way delay: 70.079 ms

Loss rate: 1.47%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-07-10 22:46:43

End at: 2018-07-10 22:47:13

Local clock offset: -0.112 ms

Remote clock offset: 5.321 ms

Below is generated by plot.py at 2018-07-11 00:46:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.73 Mbit/s

95th percentile per-packet one-way delay: 68.804 ms

Loss rate: 1.06%

-- Flow 1:

Average throughput: 50.44 Mbit/s

95th percentile per-packet one-way delay: 67.573 ms

Loss rate: 0.94%

-- Flow 2:

Average throughput: 36.72 Mbit/s

95th percentile per-packet one-way delay: 68.829 ms

Loss rate: 1.05%

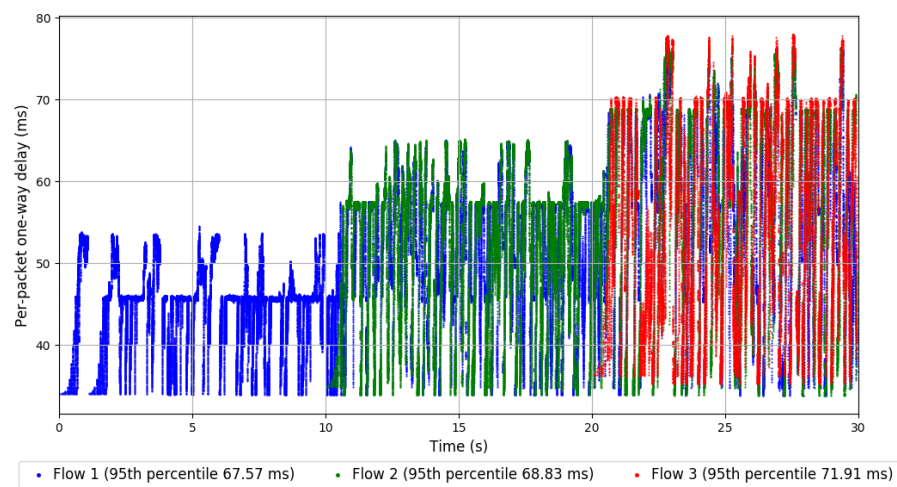
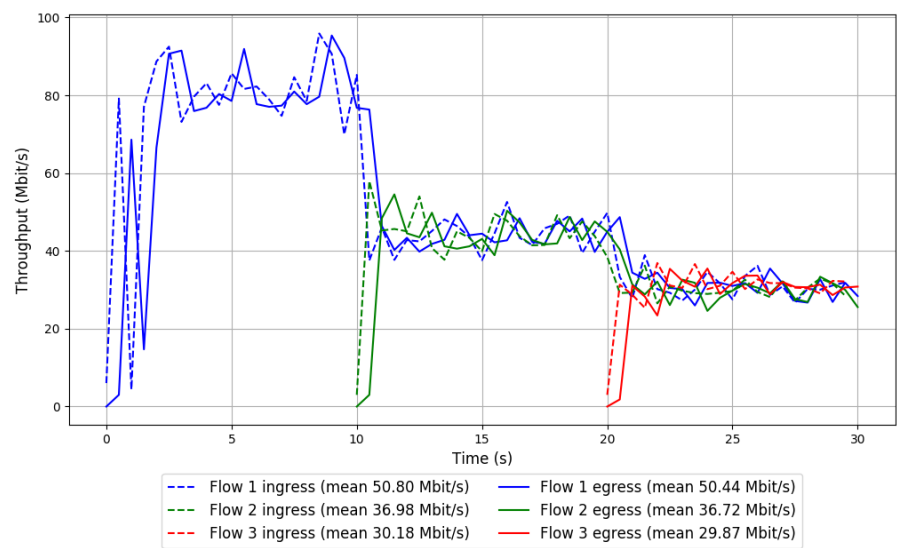
-- Flow 3:

Average throughput: 29.87 Mbit/s

95th percentile per-packet one-way delay: 71.906 ms

Loss rate: 1.67%

Run 7: Report of Verus — Data Link

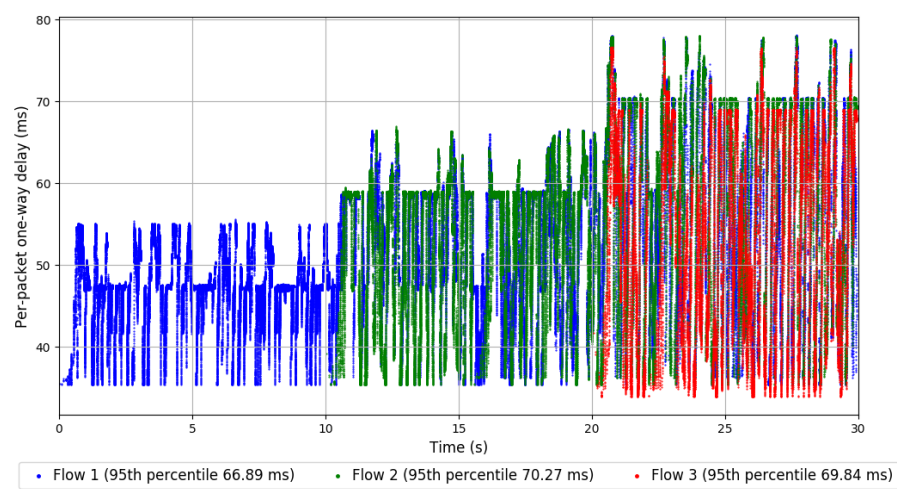
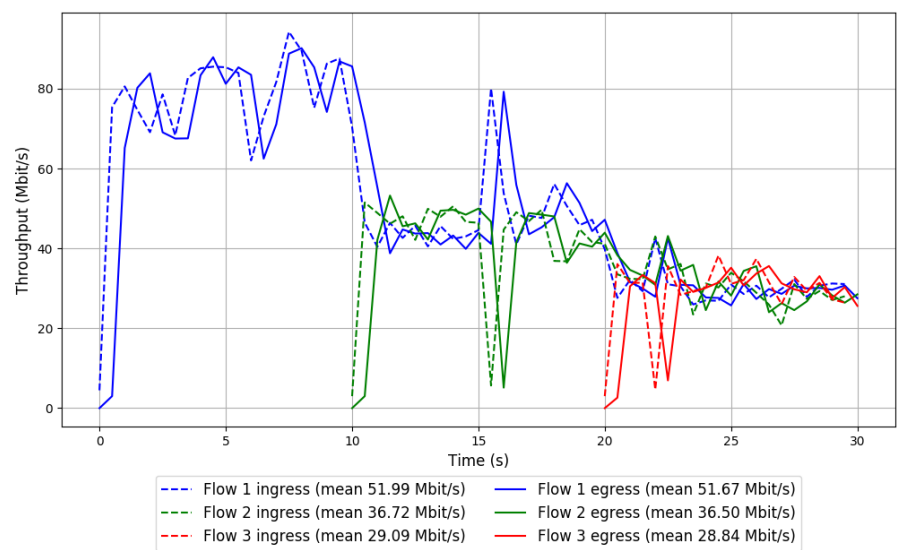


Run 8: Statistics of Verus

Start at: 2018-07-10 23:12:10
End at: 2018-07-10 23:12:40
Local clock offset: -0.422 ms
Remote clock offset: 2.04 ms

Below is generated by plot.py at 2018-07-11 00:46:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.47 Mbit/s
95th percentile per-packet one-way delay: 69.783 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 51.67 Mbit/s
95th percentile per-packet one-way delay: 66.895 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 36.50 Mbit/s
95th percentile per-packet one-way delay: 70.268 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 28.84 Mbit/s
95th percentile per-packet one-way delay: 69.836 ms
Loss rate: 0.72%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-07-10 23:37:46

End at: 2018-07-10 23:38:16

Local clock offset: -1.015 ms

Remote clock offset: 1.602 ms

Below is generated by plot.py at 2018-07-11 00:46:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.94 Mbit/s

95th percentile per-packet one-way delay: 70.879 ms

Loss rate: 1.30%

-- Flow 1:

Average throughput: 49.38 Mbit/s

95th percentile per-packet one-way delay: 67.469 ms

Loss rate: 1.19%

-- Flow 2:

Average throughput: 31.21 Mbit/s

95th percentile per-packet one-way delay: 80.193 ms

Loss rate: 1.25%

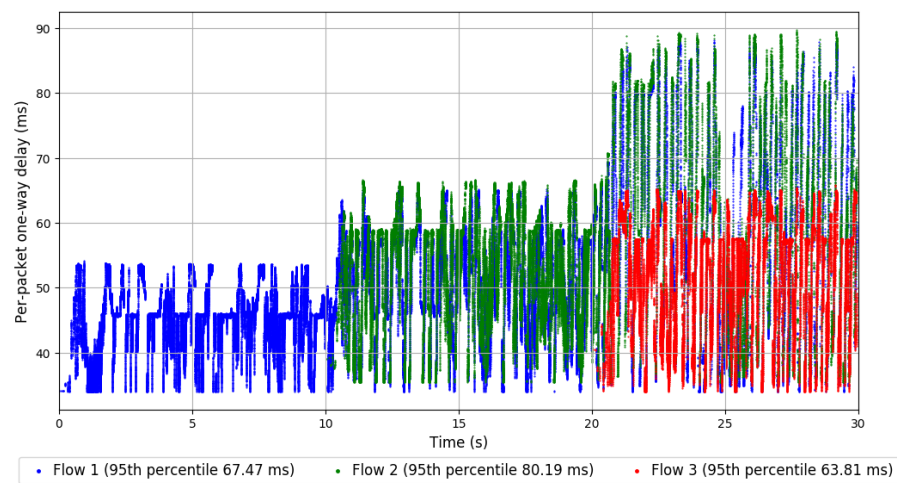
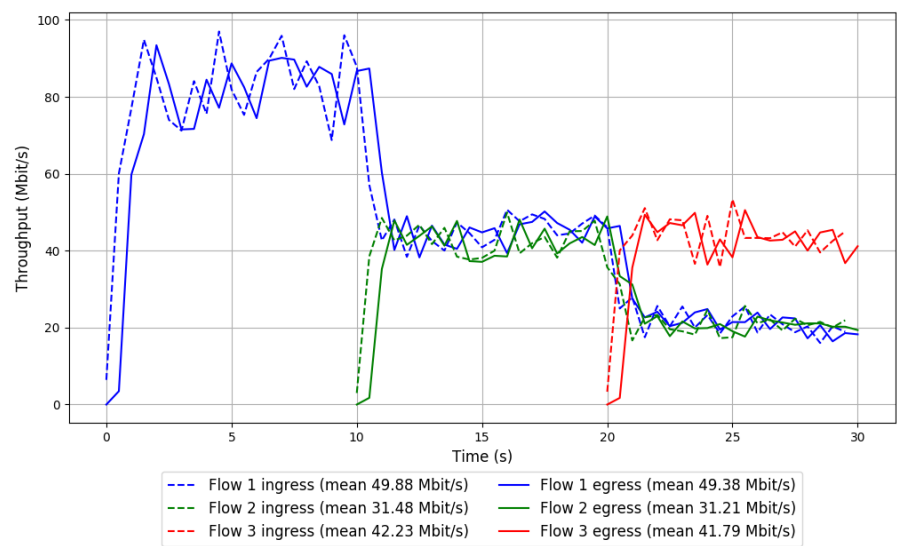
-- Flow 3:

Average throughput: 41.79 Mbit/s

95th percentile per-packet one-way delay: 63.808 ms

Loss rate: 1.74%

Run 9: Report of Verus — Data Link

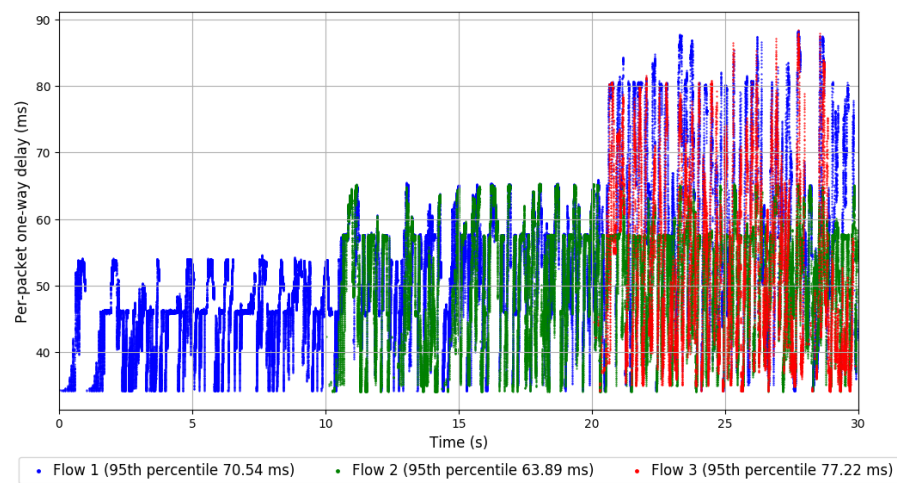
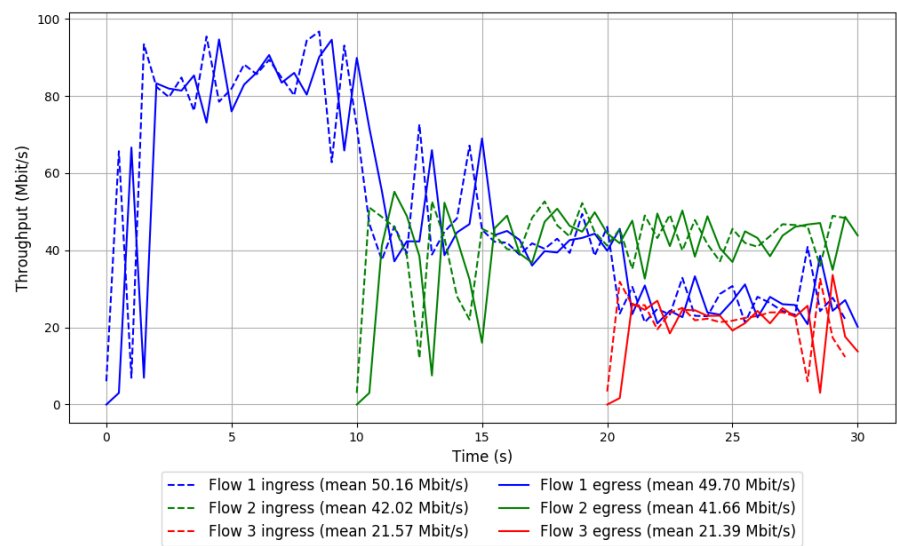


Run 10: Statistics of Verus

Start at: 2018-07-11 00:03:39
End at: 2018-07-11 00:04:09
Local clock offset: -0.213 ms
Remote clock offset: 2.367 ms

```
# Below is generated by plot.py at 2018-07-11 00:46:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.42 Mbit/s
95th percentile per-packet one-way delay: 67.580 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 49.70 Mbit/s
95th percentile per-packet one-way delay: 70.536 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 41.66 Mbit/s
95th percentile per-packet one-way delay: 63.890 ms
Loss rate: 1.20%
-- Flow 3:
Average throughput: 21.39 Mbit/s
95th percentile per-packet one-way delay: 77.220 ms
Loss rate: 1.63%
```

Run 10: Report of Verus — Data Link

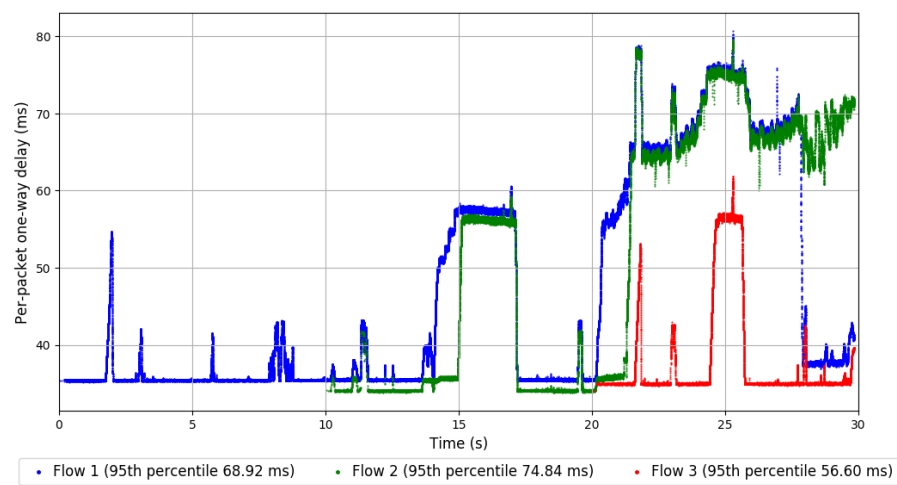
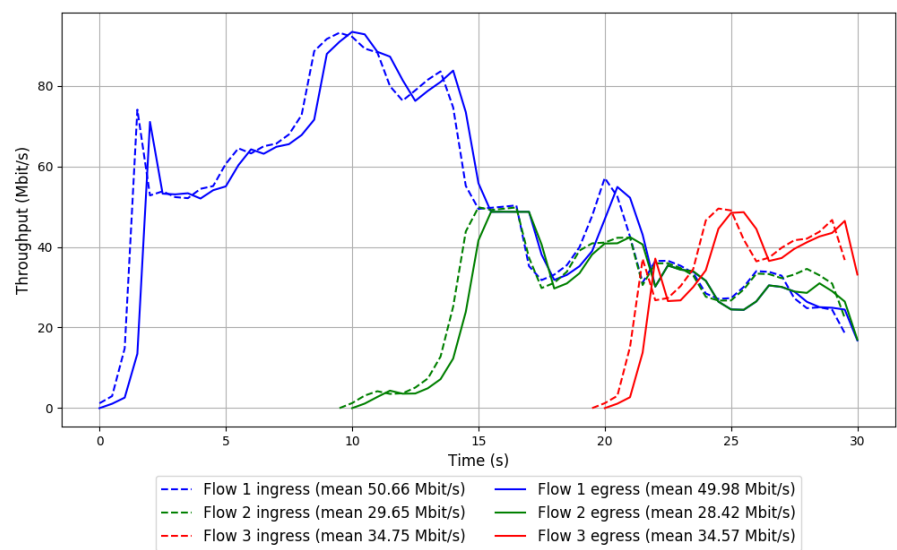


```
Run 1: Statistics of PCC-Vivace

Start at: 2018-07-10 20:32:52
End at: 2018-07-10 20:33:22
Local clock offset: 0.106 ms
Remote clock offset: 2.931 ms

# Below is generated by plot.py at 2018-07-11 00:46:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.25 Mbit/s
95th percentile per-packet one-way delay: 70.682 ms
Loss rate: 2.22%
-- Flow 1:
Average throughput: 49.98 Mbit/s
95th percentile per-packet one-way delay: 68.921 ms
Loss rate: 1.56%
-- Flow 2:
Average throughput: 28.42 Mbit/s
95th percentile per-packet one-way delay: 74.837 ms
Loss rate: 4.49%
-- Flow 3:
Average throughput: 34.57 Mbit/s
95th percentile per-packet one-way delay: 56.603 ms
Loss rate: 1.21%
```

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-07-10 20:56:55

End at: 2018-07-10 20:57:25

Local clock offset: 0.021 ms

Remote clock offset: 3.586 ms

Below is generated by plot.py at 2018-07-11 00:47:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.99 Mbit/s

95th percentile per-packet one-way delay: 56.245 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 54.55 Mbit/s

95th percentile per-packet one-way delay: 53.042 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 34.60 Mbit/s

95th percentile per-packet one-way delay: 58.312 ms

Loss rate: 0.58%

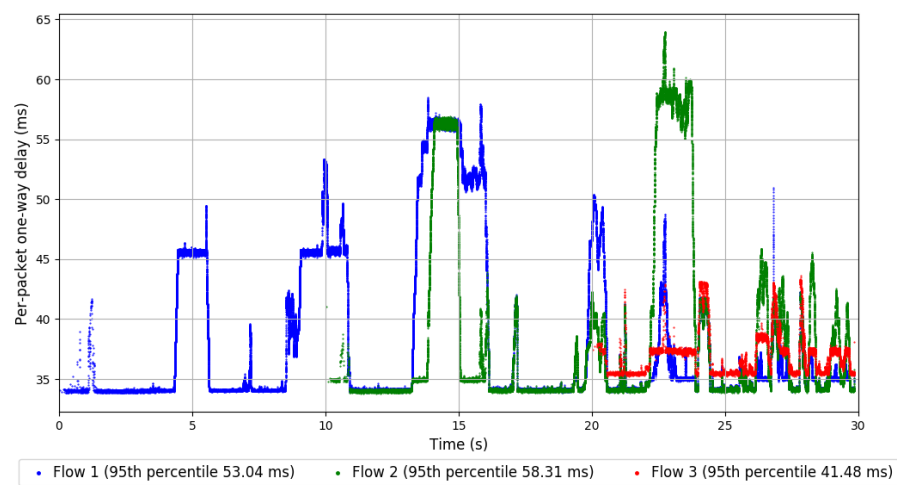
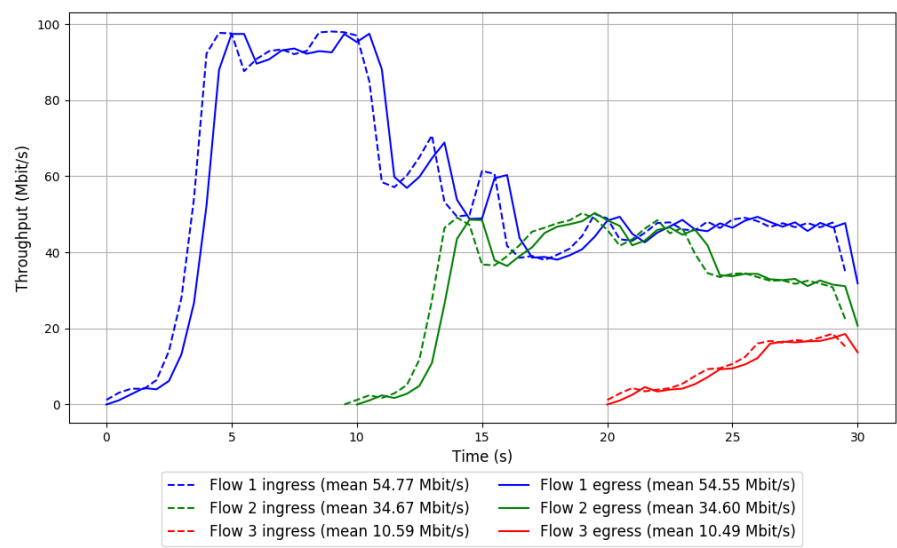
-- Flow 3:

Average throughput: 10.49 Mbit/s

95th percentile per-packet one-way delay: 41.481 ms

Loss rate: 1.70%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-07-10 21:20:50

End at: 2018-07-10 21:21:20

Local clock offset: 0.127 ms

Remote clock offset: 2.999 ms

Below is generated by plot.py at 2018-07-11 00:47:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.26 Mbit/s

95th percentile per-packet one-way delay: 71.240 ms

Loss rate: 4.85%

-- Flow 1:

Average throughput: 58.20 Mbit/s

95th percentile per-packet one-way delay: 55.856 ms

Loss rate: 5.51%

-- Flow 2:

Average throughput: 32.93 Mbit/s

95th percentile per-packet one-way delay: 76.182 ms

Loss rate: 3.99%

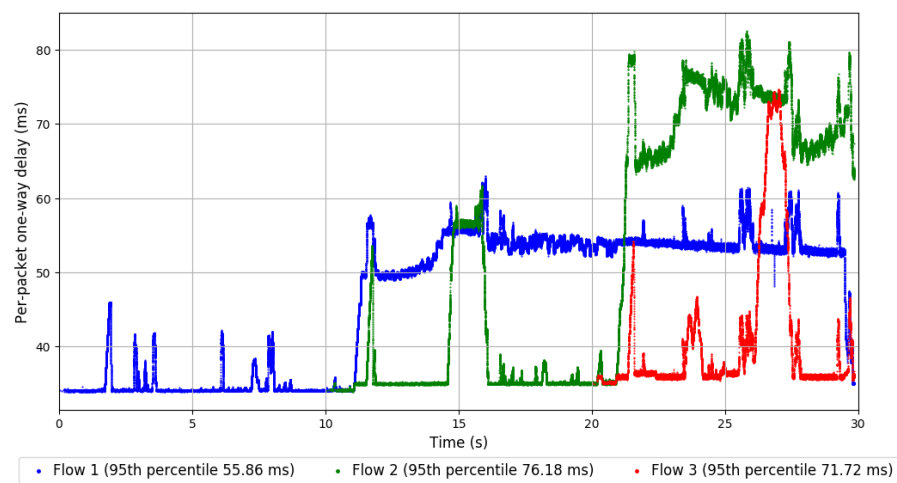
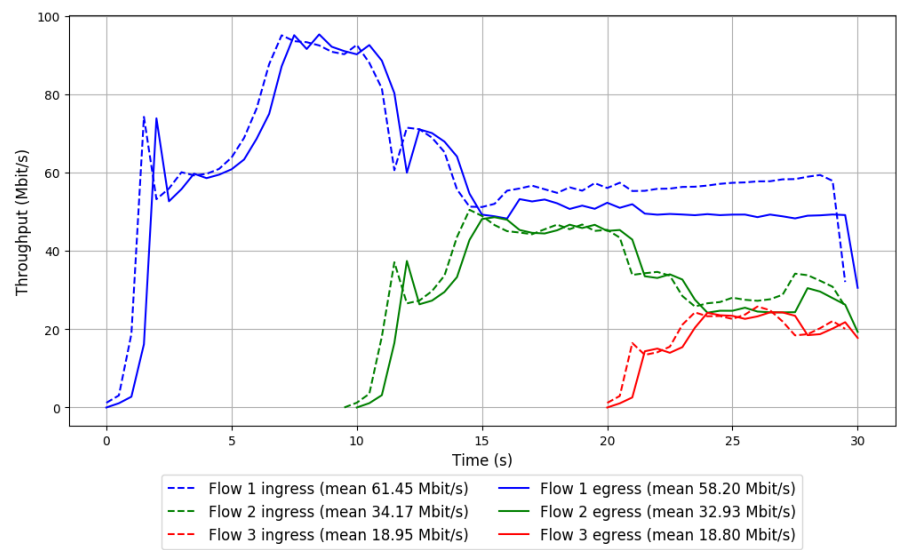
-- Flow 3:

Average throughput: 18.80 Mbit/s

95th percentile per-packet one-way delay: 71.725 ms

Loss rate: 1.47%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

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

End at: 2018-07-10 21:45:14

Local clock offset: 0.015 ms

Remote clock offset: 3.457 ms

Below is generated by plot.py at 2018-07-11 00:47:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.94 Mbit/s

95th percentile per-packet one-way delay: 64.217 ms

Loss rate: 1.90%

-- Flow 1:

Average throughput: 46.60 Mbit/s

95th percentile per-packet one-way delay: 60.199 ms

Loss rate: 0.96%

-- Flow 2:

Average throughput: 39.22 Mbit/s

95th percentile per-packet one-way delay: 68.758 ms

Loss rate: 3.63%

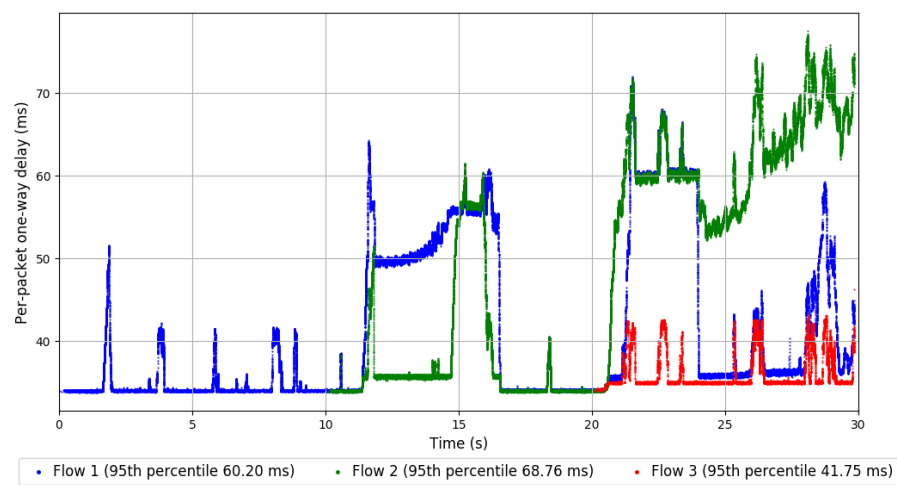
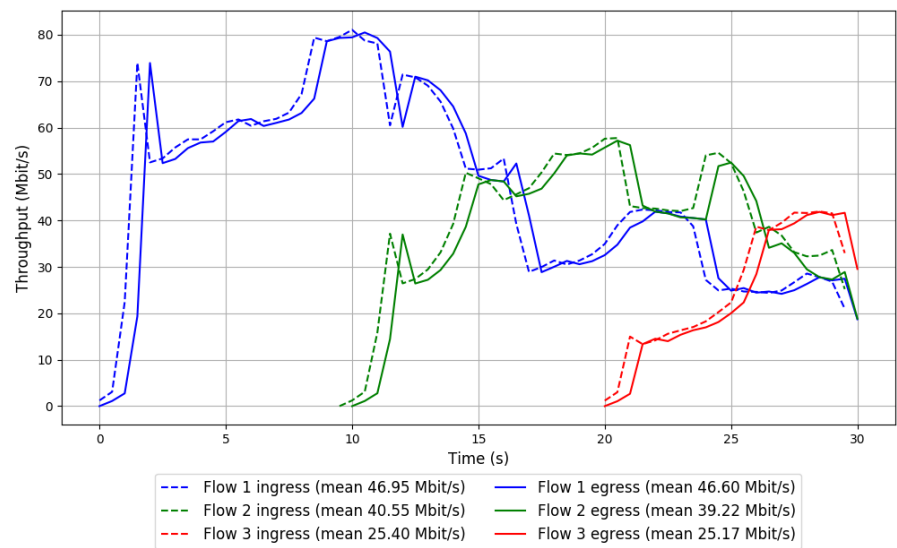
-- Flow 3:

Average throughput: 25.17 Mbit/s

95th percentile per-packet one-way delay: 41.748 ms

Loss rate: 1.53%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-07-10 22:09:27

End at: 2018-07-10 22:09:57

Local clock offset: -0.112 ms

Remote clock offset: 4.39 ms

Below is generated by plot.py at 2018-07-11 00:47:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.48 Mbit/s

95th percentile per-packet one-way delay: 66.396 ms

Loss rate: 2.01%

-- Flow 1:

Average throughput: 55.35 Mbit/s

95th percentile per-packet one-way delay: 64.604 ms

Loss rate: 1.40%

-- Flow 2:

Average throughput: 35.45 Mbit/s

95th percentile per-packet one-way delay: 68.216 ms

Loss rate: 3.72%

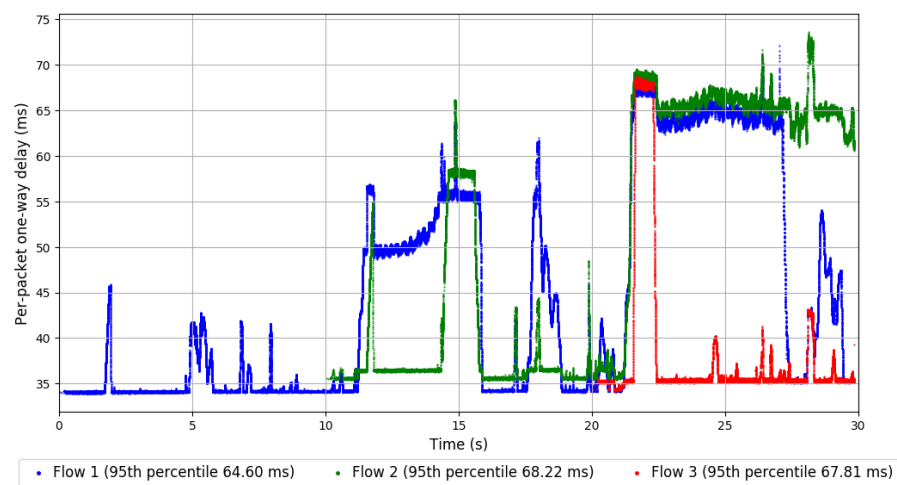
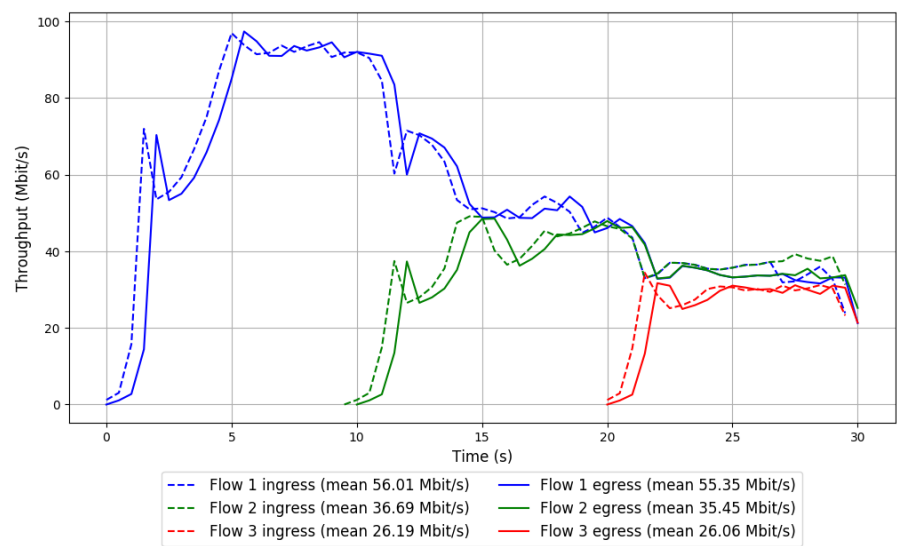
-- Flow 3:

Average throughput: 26.06 Mbit/s

95th percentile per-packet one-way delay: 67.807 ms

Loss rate: 1.11%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-07-10 22:33:35

End at: 2018-07-10 22:34:05

Local clock offset: -0.163 ms

Remote clock offset: 7.285 ms

Below is generated by plot.py at 2018-07-11 00:47:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.29 Mbit/s

95th percentile per-packet one-way delay: 55.415 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 51.08 Mbit/s

95th percentile per-packet one-way delay: 55.891 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 38.10 Mbit/s

95th percentile per-packet one-way delay: 54.923 ms

Loss rate: 0.87%

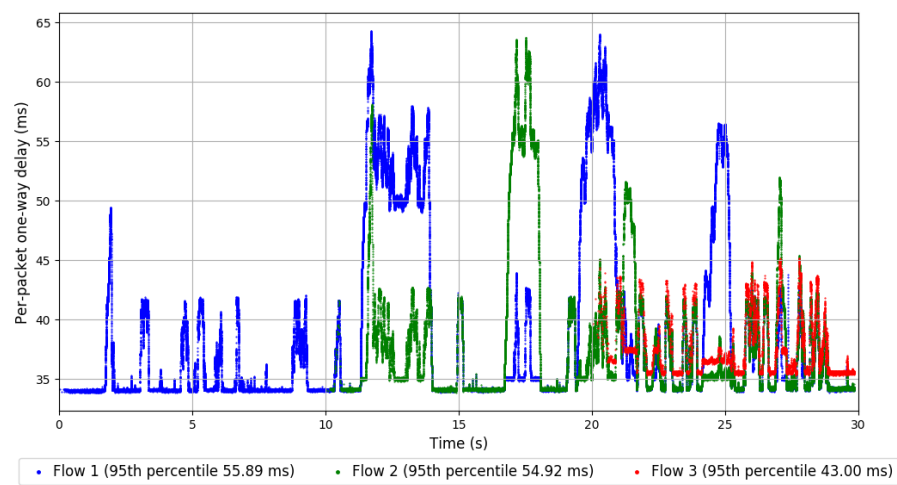
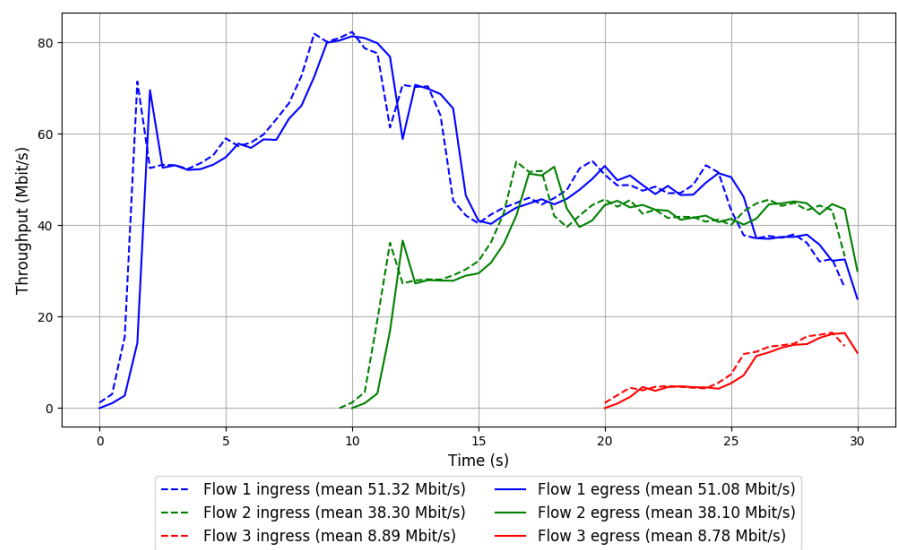
-- Flow 3:

Average throughput: 8.78 Mbit/s

95th percentile per-packet one-way delay: 43.003 ms

Loss rate: 1.98%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-07-10 22:58:36

End at: 2018-07-10 22:59:06

Local clock offset: -0.285 ms

Remote clock offset: 3.003 ms

Below is generated by plot.py at 2018-07-11 00:47:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.26 Mbit/s

95th percentile per-packet one-way delay: 42.311 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 32.68 Mbit/s

95th percentile per-packet one-way delay: 42.297 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 13.14 Mbit/s

95th percentile per-packet one-way delay: 41.190 ms

Loss rate: 1.04%

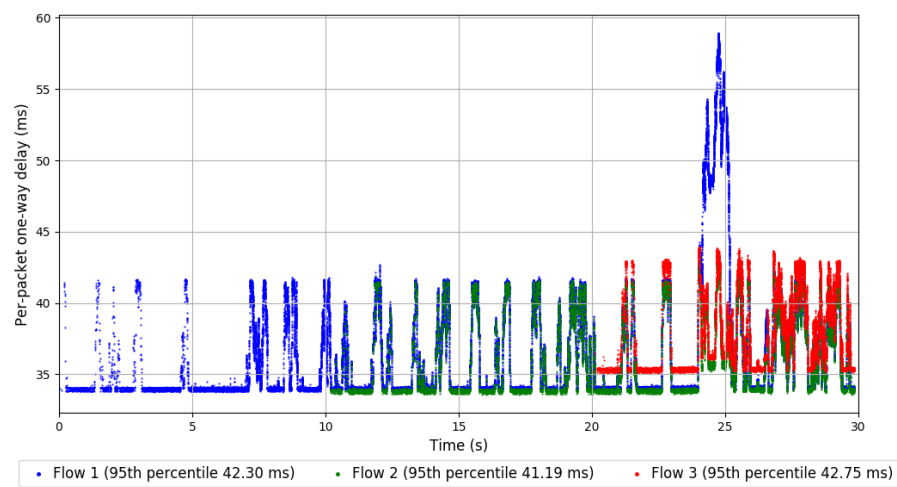
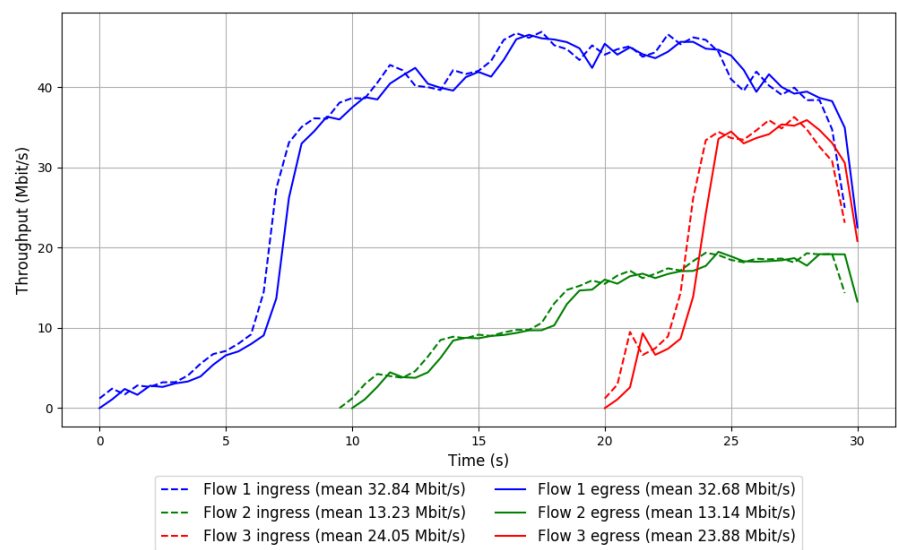
-- Flow 3:

Average throughput: 23.88 Mbit/s

95th percentile per-packet one-way delay: 42.750 ms

Loss rate: 1.41%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-07-10 23:24:04

End at: 2018-07-10 23:24:34

Local clock offset: -0.718 ms

Remote clock offset: 1.797 ms

Below is generated by plot.py at 2018-07-11 00:47:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.04 Mbit/s

95th percentile per-packet one-way delay: 65.559 ms

Loss rate: 1.38%

-- Flow 1:

Average throughput: 56.19 Mbit/s

95th percentile per-packet one-way delay: 62.896 ms

Loss rate: 1.14%

-- Flow 2:

Average throughput: 21.41 Mbit/s

95th percentile per-packet one-way delay: 69.709 ms

Loss rate: 2.15%

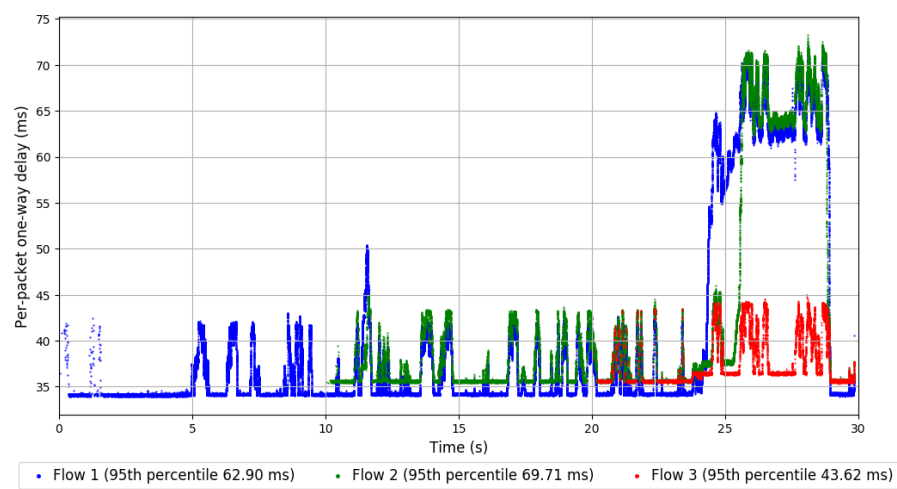
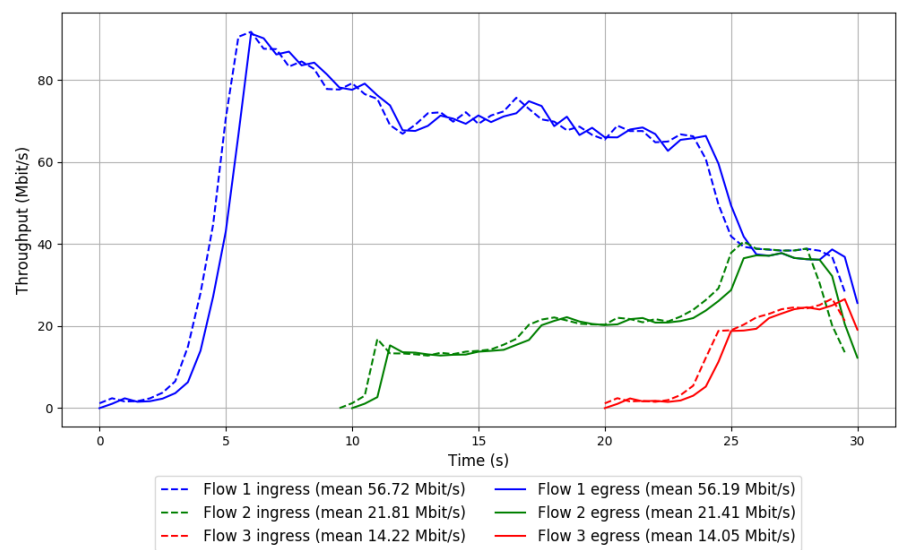
-- Flow 3:

Average throughput: 14.05 Mbit/s

95th percentile per-packet one-way delay: 43.623 ms

Loss rate: 1.91%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-07-10 23:50:26

End at: 2018-07-10 23:50:56

Local clock offset: -0.806 ms

Remote clock offset: 1.404 ms

Below is generated by plot.py at 2018-07-11 00:47:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.07 Mbit/s

95th percentile per-packet one-way delay: 51.543 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 67.72 Mbit/s

95th percentile per-packet one-way delay: 51.708 ms

Loss rate: 0.81%

-- Flow 2:

Average throughput: 13.30 Mbit/s

95th percentile per-packet one-way delay: 42.660 ms

Loss rate: 1.11%

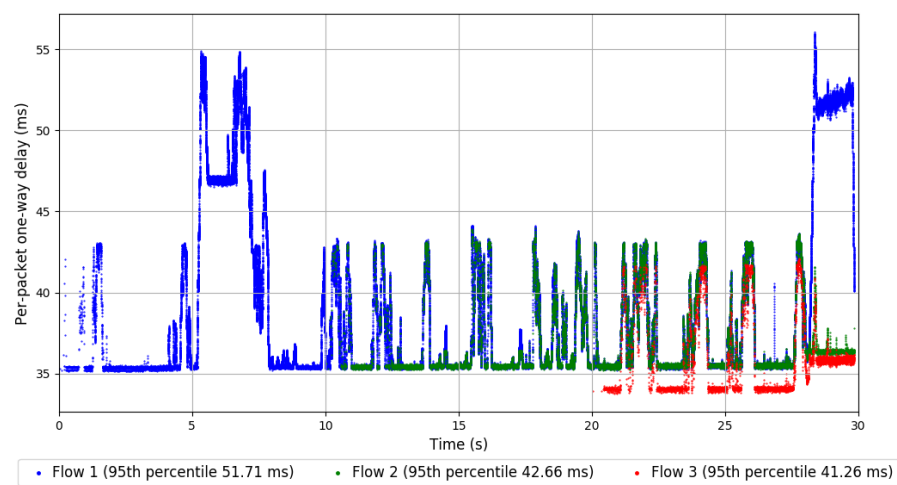
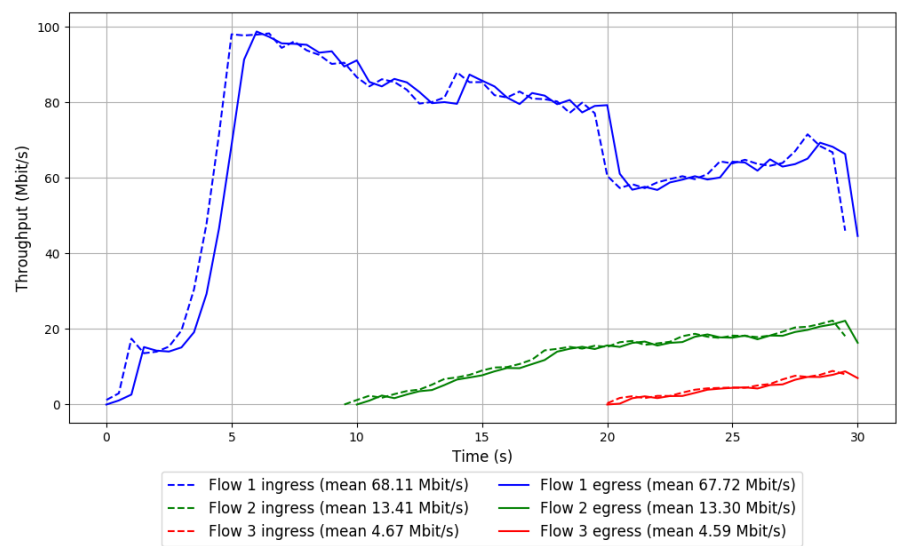
-- Flow 3:

Average throughput: 4.59 Mbit/s

95th percentile per-packet one-way delay: 41.255 ms

Loss rate: 2.24%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-07-11 00:15:45

End at: 2018-07-11 00:16:15

Local clock offset: 0.279 ms

Remote clock offset: 2.712 ms

Below is generated by plot.py at 2018-07-11 00:47:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.68 Mbit/s

95th percentile per-packet one-way delay: 41.640 ms

Loss rate: 1.38%

-- Flow 1:

Average throughput: 37.41 Mbit/s

95th percentile per-packet one-way delay: 41.638 ms

Loss rate: 1.28%

-- Flow 2:

Average throughput: 14.53 Mbit/s

95th percentile per-packet one-way delay: 41.644 ms

Loss rate: 1.64%

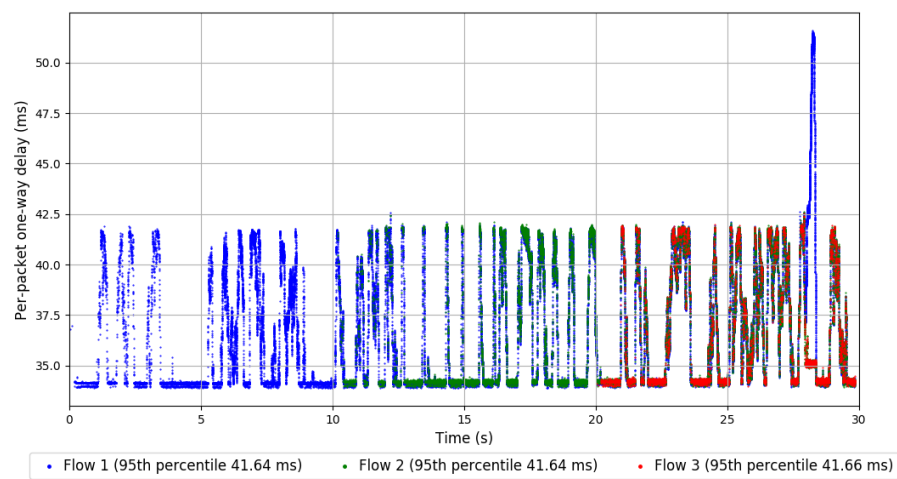
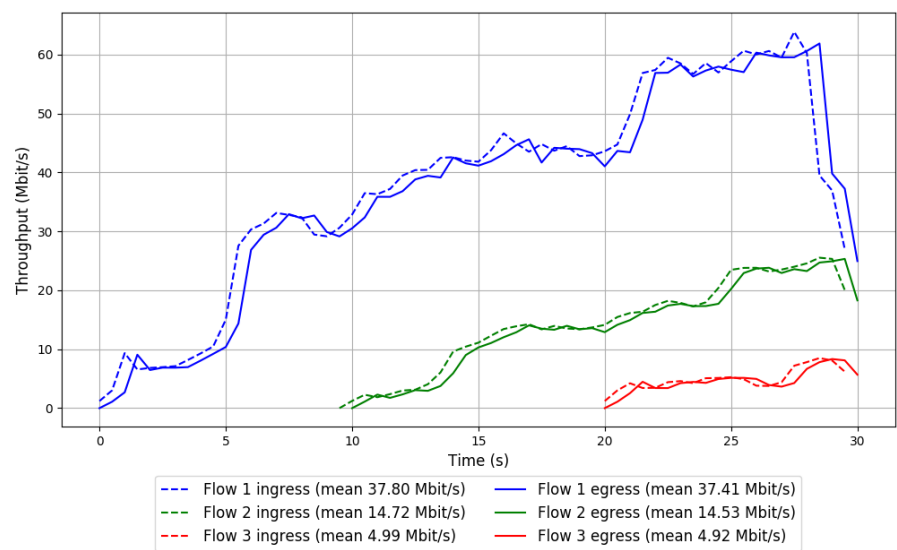
-- Flow 3:

Average throughput: 4.92 Mbit/s

95th percentile per-packet one-way delay: 41.662 ms

Loss rate: 2.18%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-07-10 20:26:15

End at: 2018-07-10 20:26:45

Local clock offset: 0.266 ms

Remote clock offset: 2.863 ms

Below is generated by plot.py at 2018-07-11 00:47:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.21 Mbit/s

95th percentile per-packet one-way delay: 36.041 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 1.77 Mbit/s

95th percentile per-packet one-way delay: 36.150 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 1.02 Mbit/s

95th percentile per-packet one-way delay: 34.932 ms

Loss rate: 0.36%

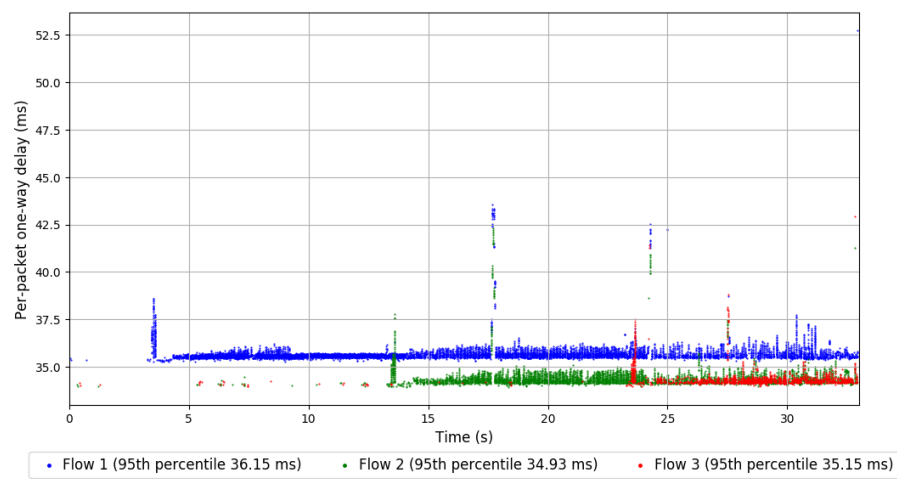
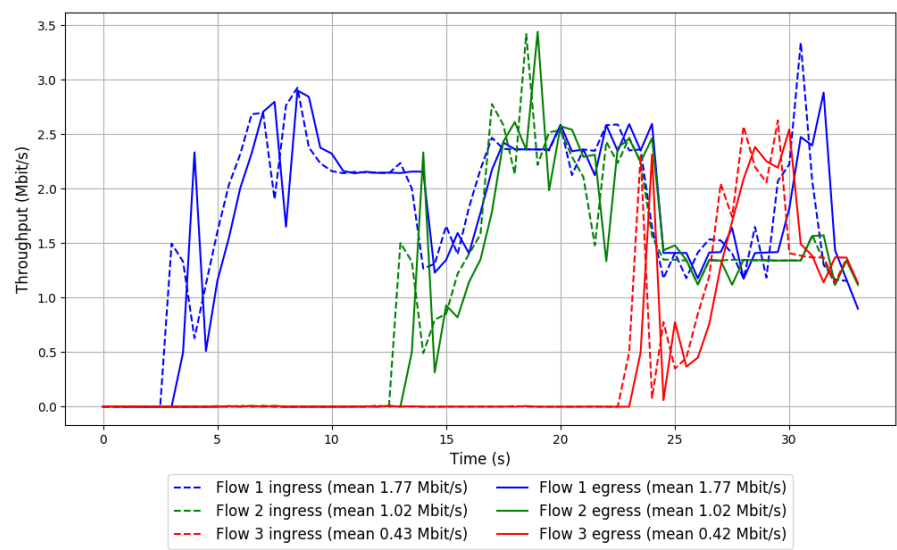
-- Flow 3:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 35.149 ms

Loss rate: 0.81%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-07-10 20:50:12

End at: 2018-07-10 20:50:42

Local clock offset: 0.027 ms

Remote clock offset: 3.452 ms

Below is generated by plot.py at 2018-07-11 00:47:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.22 Mbit/s

95th percentile per-packet one-way delay: 35.869 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 1.75 Mbit/s

95th percentile per-packet one-way delay: 35.947 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 1.04 Mbit/s

95th percentile per-packet one-way delay: 34.550 ms

Loss rate: 0.33%

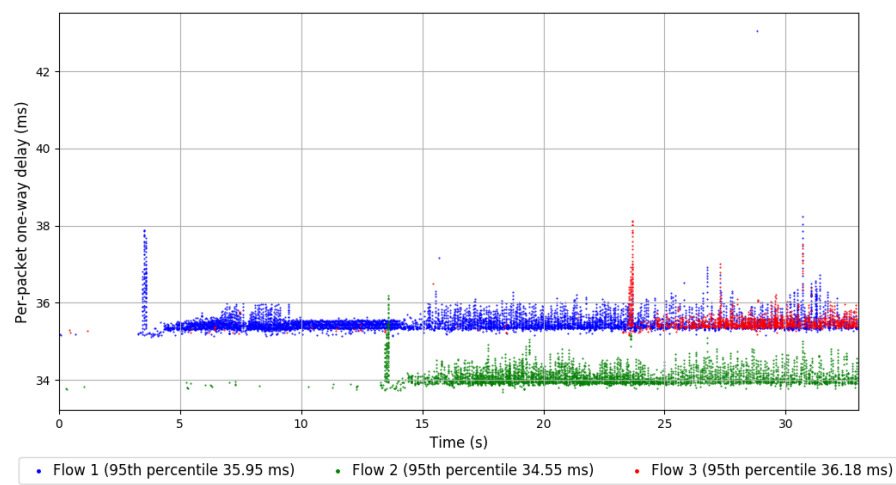
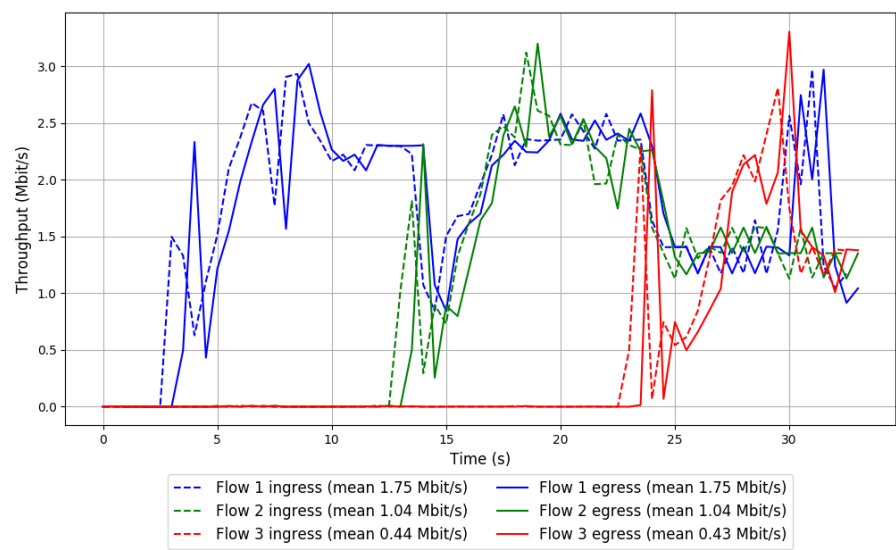
-- Flow 3:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 36.184 ms

Loss rate: 0.81%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-07-10 21:14:09

End at: 2018-07-10 21:14:39

Local clock offset: 0.017 ms

Remote clock offset: 3.011 ms

Below is generated by plot.py at 2018-07-11 00:47:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.25 Mbit/s

95th percentile per-packet one-way delay: 35.873 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 1.79 Mbit/s

95th percentile per-packet one-way delay: 34.611 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 1.03 Mbit/s

95th percentile per-packet one-way delay: 36.127 ms

Loss rate: 0.34%

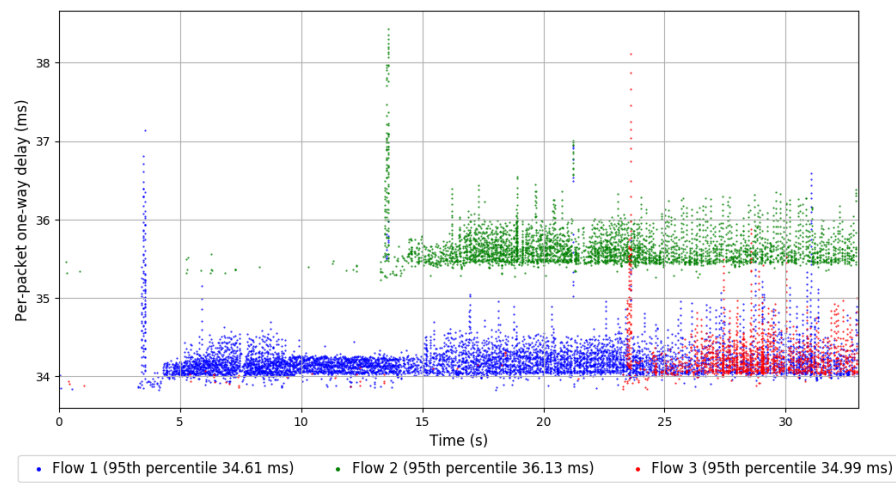
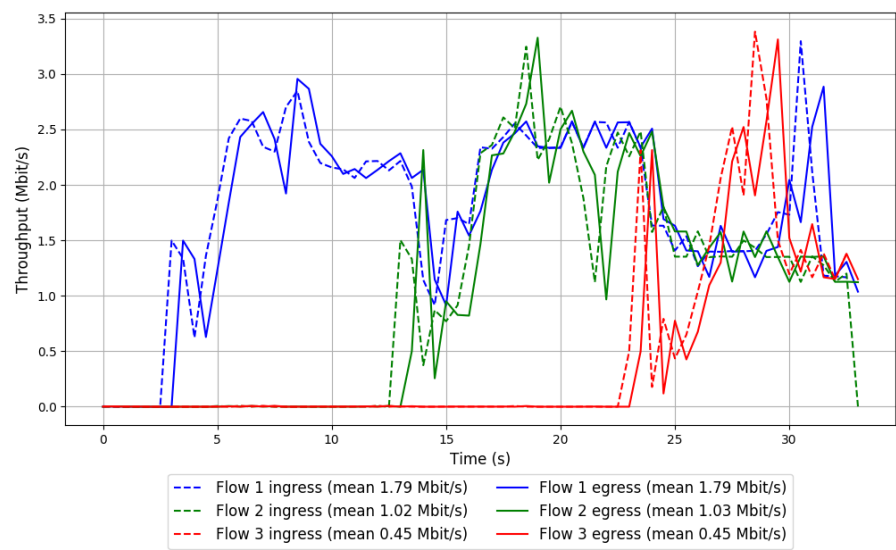
-- Flow 3:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 34.987 ms

Loss rate: 0.79%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-07-10 21:37:52

End at: 2018-07-10 21:38:22

Local clock offset: 0.047 ms

Remote clock offset: 3.299 ms

Below is generated by plot.py at 2018-07-11 00:47:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.35 Mbit/s

95th percentile per-packet one-way delay: 36.551 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 1.83 Mbit/s

95th percentile per-packet one-way delay: 34.992 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 1.13 Mbit/s

95th percentile per-packet one-way delay: 37.044 ms

Loss rate: 0.10%

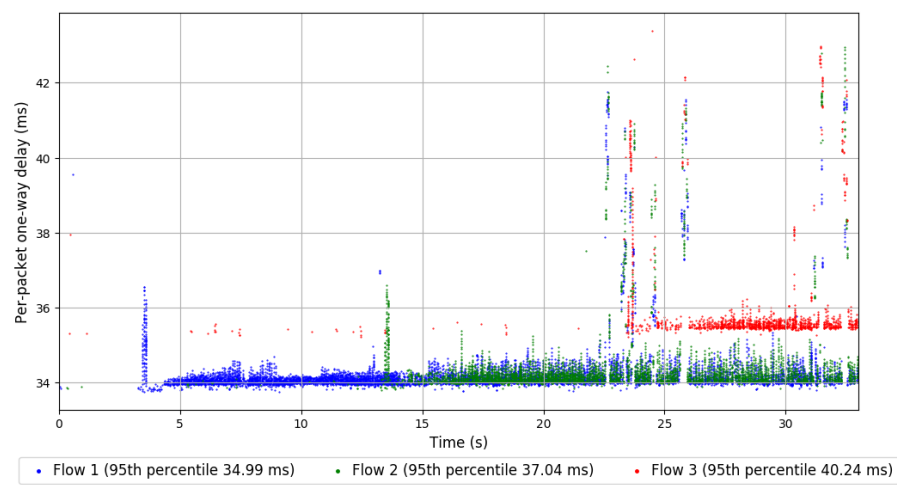
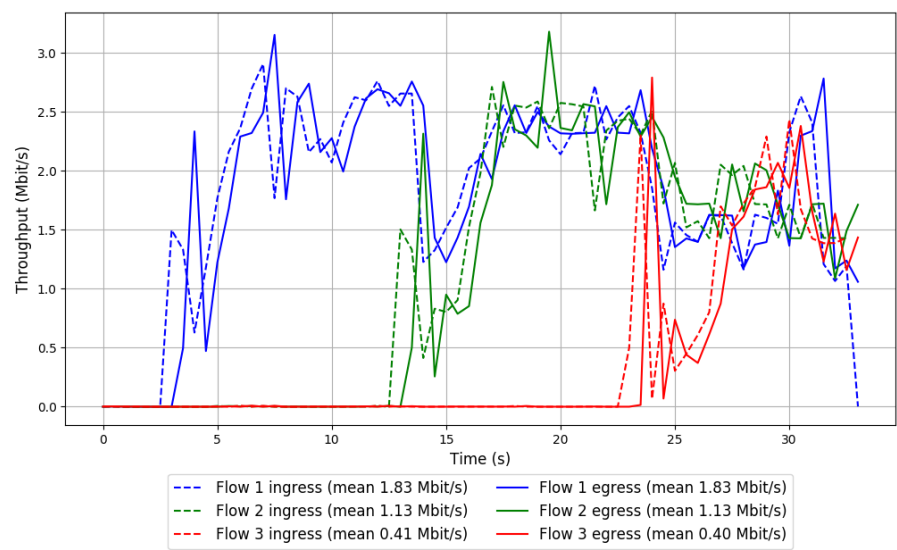
-- Flow 3:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 40.239 ms

Loss rate: 0.93%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-07-10 22:02:39

End at: 2018-07-10 22:03:09

Local clock offset: -0.062 ms

Remote clock offset: 3.78 ms

Below is generated by plot.py at 2018-07-11 00:47:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.36 Mbit/s

95th percentile per-packet one-way delay: 34.784 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 1.83 Mbit/s

95th percentile per-packet one-way delay: 34.736 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 1.08 Mbit/s

95th percentile per-packet one-way delay: 34.674 ms

Loss rate: 0.21%

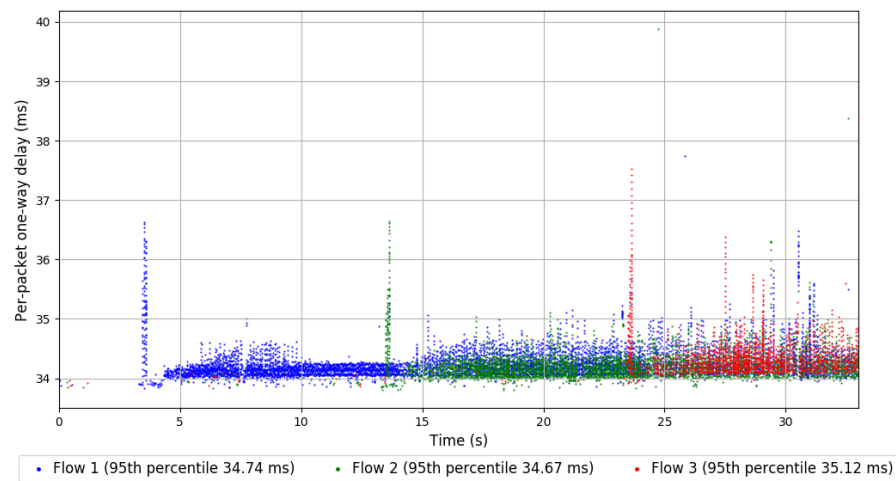
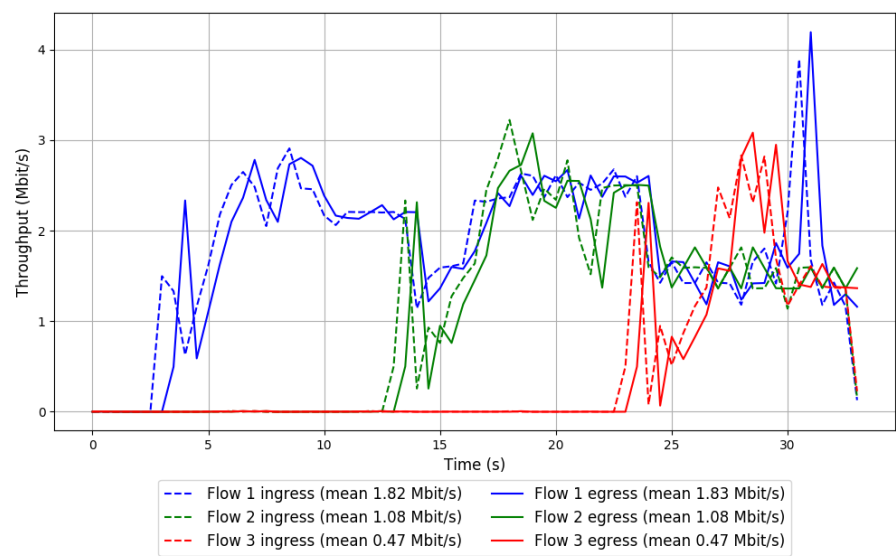
-- Flow 3:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 35.116 ms

Loss rate: 0.74%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-07-10 22:26:41

End at: 2018-07-10 22:27:11

Local clock offset: -0.126 ms

Remote clock offset: 6.809 ms

Below is generated by plot.py at 2018-07-11 00:47:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.51 Mbit/s

95th percentile per-packet one-way delay: 36.412 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 36.511 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 1.06 Mbit/s

95th percentile per-packet one-way delay: 35.149 ms

Loss rate: 0.33%

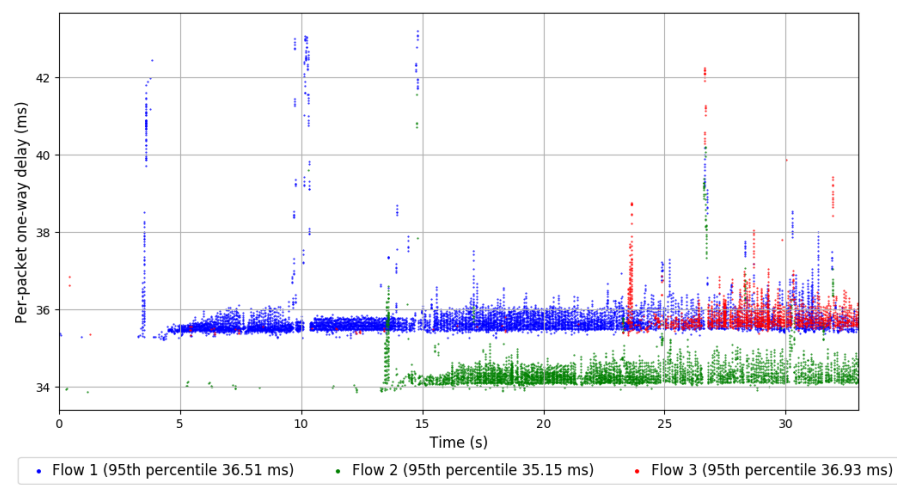
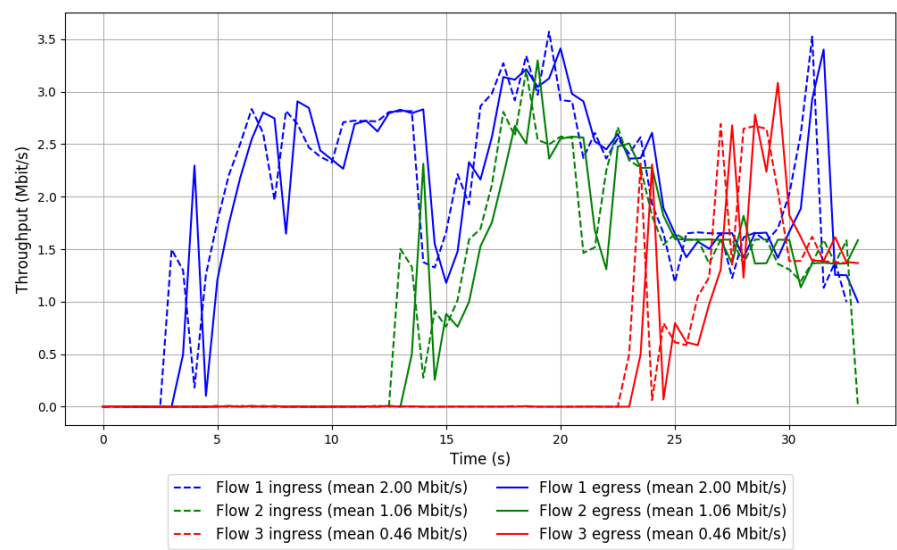
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 36.934 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-07-10 22:51:33

End at: 2018-07-10 22:52:03

Local clock offset: -0.148 ms

Remote clock offset: 3.986 ms

Below is generated by plot.py at 2018-07-11 00:47:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.00 Mbit/s

95th percentile per-packet one-way delay: 38.402 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 38.466 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 1.24 Mbit/s

95th percentile per-packet one-way delay: 39.353 ms

Loss rate: 0.61%

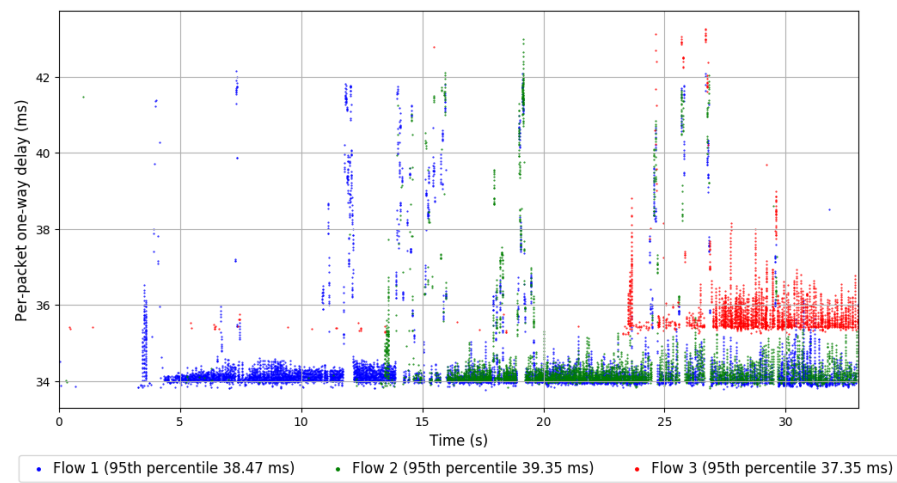
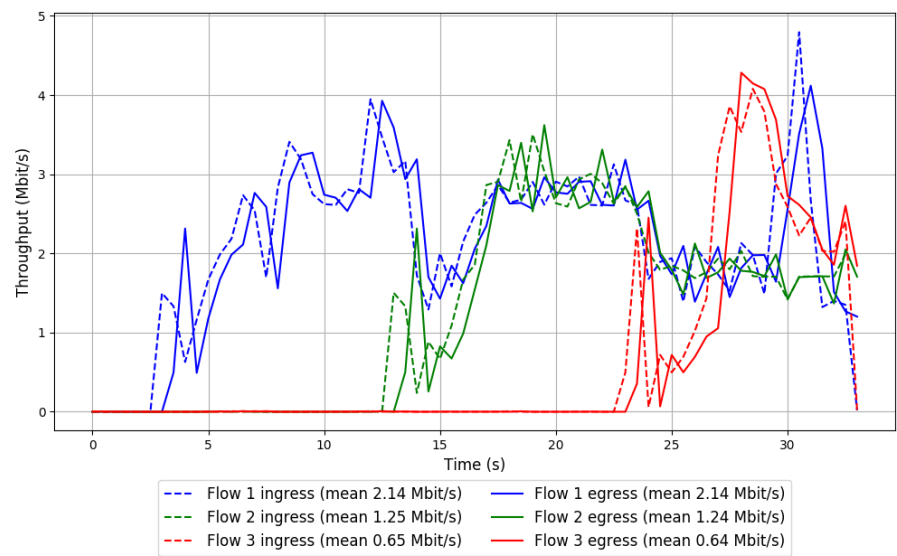
-- Flow 3:

Average throughput: 0.64 Mbit/s

95th percentile per-packet one-way delay: 37.350 ms

Loss rate: 1.64%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-07-10 23:16:54

End at: 2018-07-10 23:17:24

Local clock offset: -0.622 ms

Remote clock offset: 2.07 ms

Below is generated by plot.py at 2018-07-11 00:47:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.01 Mbit/s

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

Loss rate: 0.79%

-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 41.066 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 39.421 ms

Loss rate: 0.84%

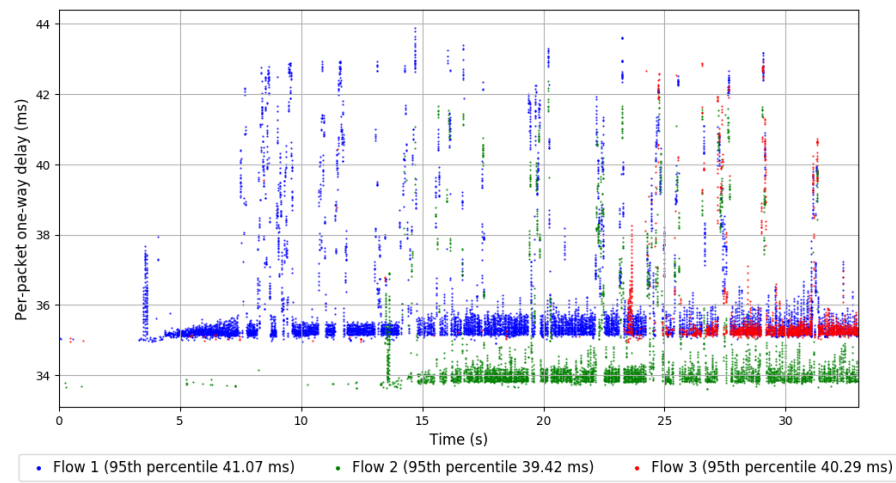
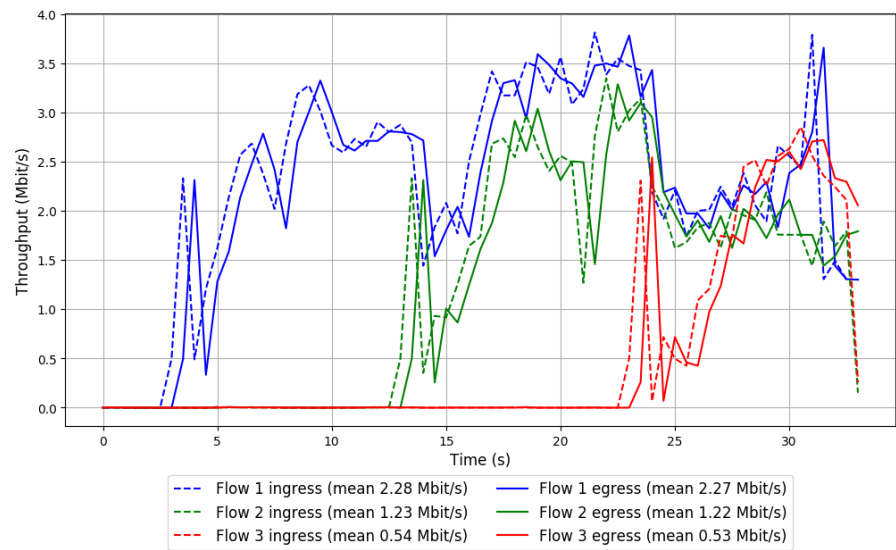
-- Flow 3:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 40.288 ms

Loss rate: 1.64%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-07-10 23:43:12

End at: 2018-07-10 23:43:42

Local clock offset: -1.019 ms

Remote clock offset: 1.361 ms

Below is generated by plot.py at 2018-07-11 00:47:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.14 Mbit/s

95th percentile per-packet one-way delay: 42.120 ms

Loss rate: 1.03%

-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 42.688 ms

Loss rate: 0.83%

-- Flow 2:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 41.344 ms

Loss rate: 1.21%

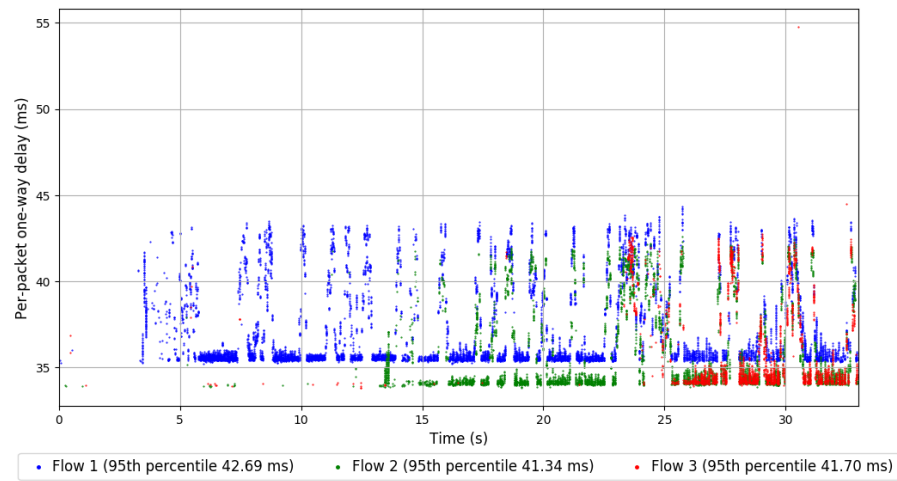
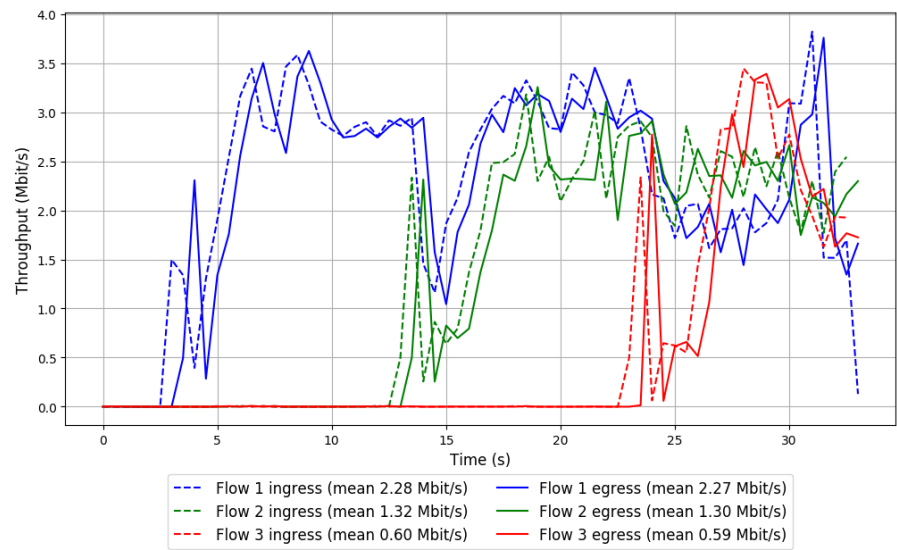
-- Flow 3:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 41.699 ms

Loss rate: 1.45%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-07-11 00:08:34

End at: 2018-07-11 00:09:04

Local clock offset: -0.018 ms

Remote clock offset: 2.661 ms

Below is generated by plot.py at 2018-07-11 00:47:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.42 Mbit/s

95th percentile per-packet one-way delay: 42.405 ms

Loss rate: 1.12%

-- Flow 1:

Average throughput: 2.37 Mbit/s

95th percentile per-packet one-way delay: 42.362 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 1.51 Mbit/s

95th percentile per-packet one-way delay: 42.421 ms

Loss rate: 1.38%

-- Flow 3:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 42.649 ms

Loss rate: 1.58%

Run 10: Report of WebRTC media — Data Link

