

Pantheon Report

Generated at 2018-08-09 12:36:34 (UTC).

Data path: AWS Brazil 2 Ethernet (*local*) → Colombia Ethernet (*remote*).

Repeated the test of 17 congestion control schemes 10 times.

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

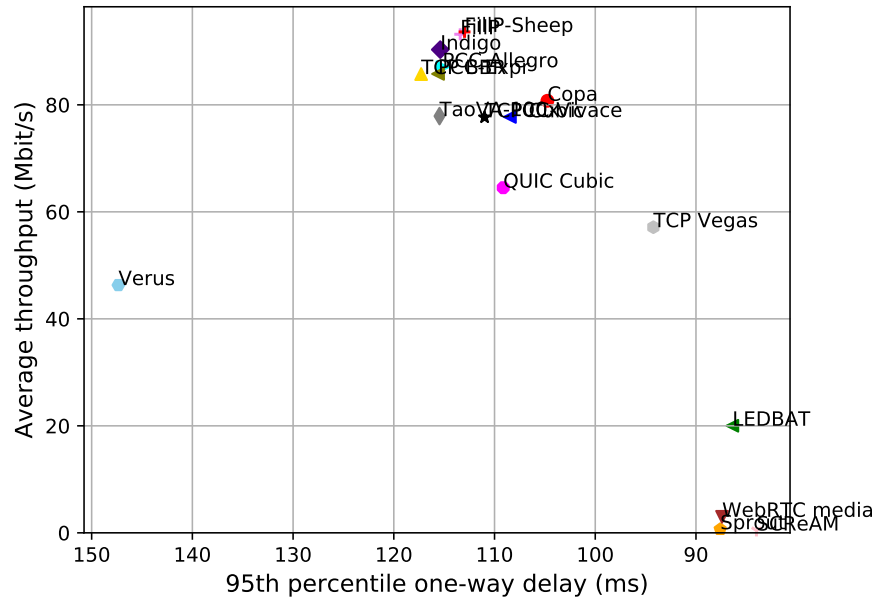
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

NTP offsets were measured against `gps.ntp.br` and have been applied to correct the timestamps in logs.

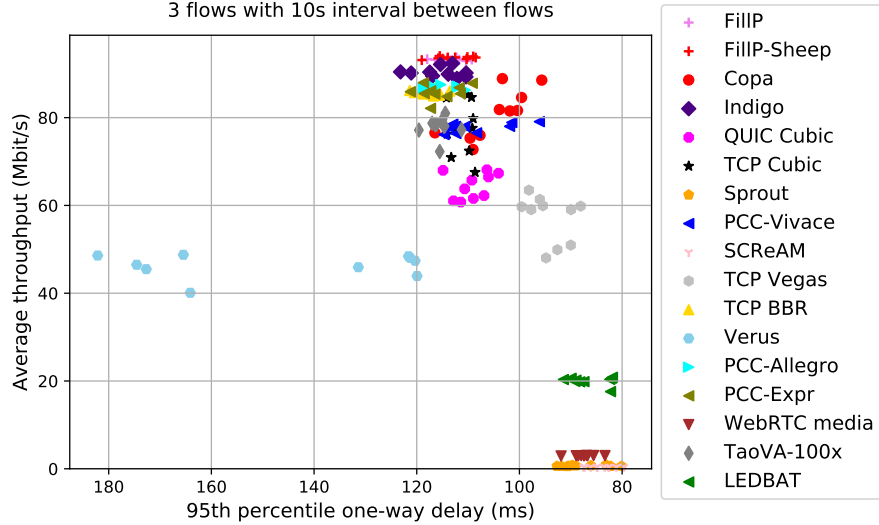
Git summary:

```
branch: master @ 7772df3413f4b07ba0096dfdd8e9d4c6dca623e3
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ daed0c84f98531712514b2231f43ec6901114ffe
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf90c077e64d
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

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



test from AWS Brazil 2 to Colombia, 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	55.78	34.05	22.24	115.11	115.94	114.57	8.96	12.12	13.56
Copa	10	66.72	15.16	11.92	105.45	99.97	98.48	2.34	0.88	0.43
TCP Cubic	10	45.67	36.66	22.81	109.69	111.83	111.71	0.58	0.87	1.09
FillP	10	58.64	40.54	22.95	111.97	112.64	112.16	17.30	20.03	19.40
FillP-Sheep	10	54.90	41.75	33.21	111.43	111.16	112.99	14.61	25.36	29.08
Indigo	10	61.02	32.16	25.25	113.88	114.53	114.59	7.52	17.07	41.92
LEDBAT	10	12.83	8.65	4.35	85.65	85.94	84.99	0.02	0.04	0.04
PCC-Allegro	10	78.72	8.91	7.21	115.14	114.45	116.20	2.69	4.59	5.42
PCC-Expr	10	75.15	12.37	8.03	115.15	114.76	115.90	3.84	3.65	4.90
QUIC Cubic	10	48.77	17.53	12.58	109.75	106.55	103.39	0.85	0.38	0.32
SCReAM	10	0.22	0.22	0.22	82.88	82.76	81.35	0.00	0.00	0.00
Sprout	10	0.33	0.33	0.39	86.15	87.06	85.17	0.00	0.00	0.00
TaoVA-100x	10	46.98	34.45	24.13	114.96	115.35	116.23	4.21	8.08	10.09
TCP Vegas	10	26.32	28.35	35.89	94.06	95.54	92.78	0.56	0.78	1.40
Verus	10	29.52	17.57	17.02	140.60	133.77	122.08	57.92	38.93	35.64
PCC-Vivace	10	65.98	13.94	7.53	108.74	106.56	101.23	0.22	0.35	0.26
WebRTC media	10	1.74	1.03	0.23	85.49	85.60	86.66	0.00	0.02	0.08

Run 1: Statistics of TCP BBR

Start at: 2018-08-09 09:00:57

End at: 2018-08-09 09:01:27

Local clock offset: -8.224 ms

Remote clock offset: 5.276 ms

Below is generated by plot.py at 2018-08-09 12:16:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.40 Mbit/s

95th percentile per-packet one-way delay: 118.721 ms

Loss rate: 12.00%

-- Flow 1:

Average throughput: 56.05 Mbit/s

95th percentile per-packet one-way delay: 116.799 ms

Loss rate: 10.15%

-- Flow 2:

Average throughput: 32.33 Mbit/s

95th percentile per-packet one-way delay: 118.882 ms

Loss rate: 14.75%

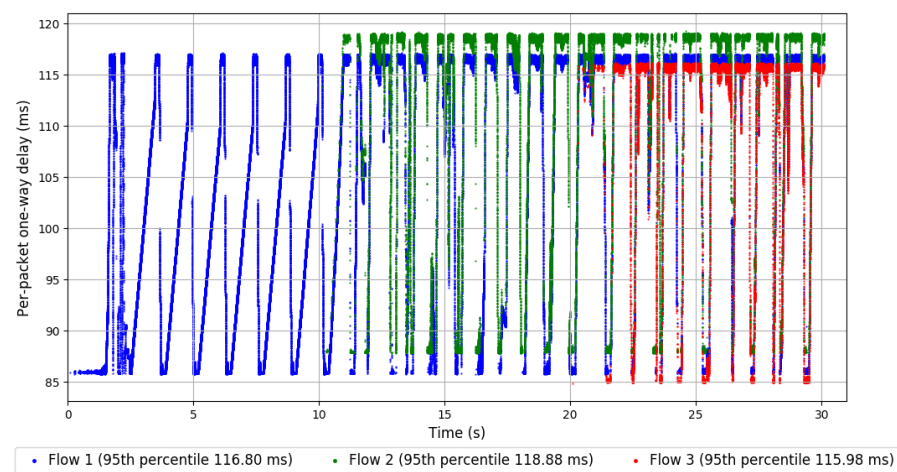
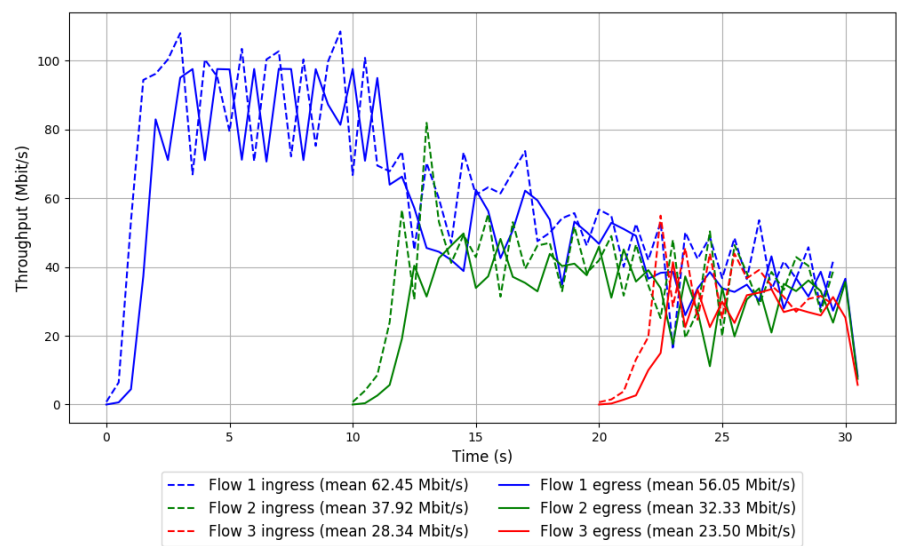
-- Flow 3:

Average throughput: 23.50 Mbit/s

95th percentile per-packet one-way delay: 115.980 ms

Loss rate: 16.82%

Run 1: Report of TCP BBR — Data Link

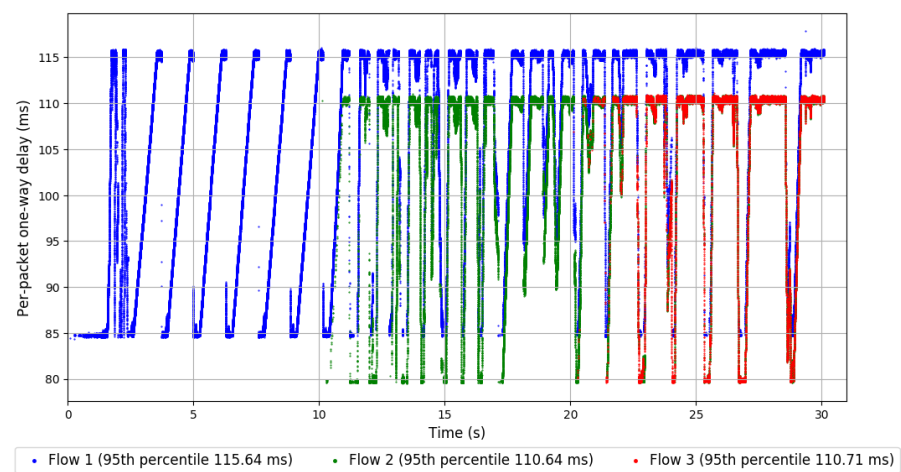
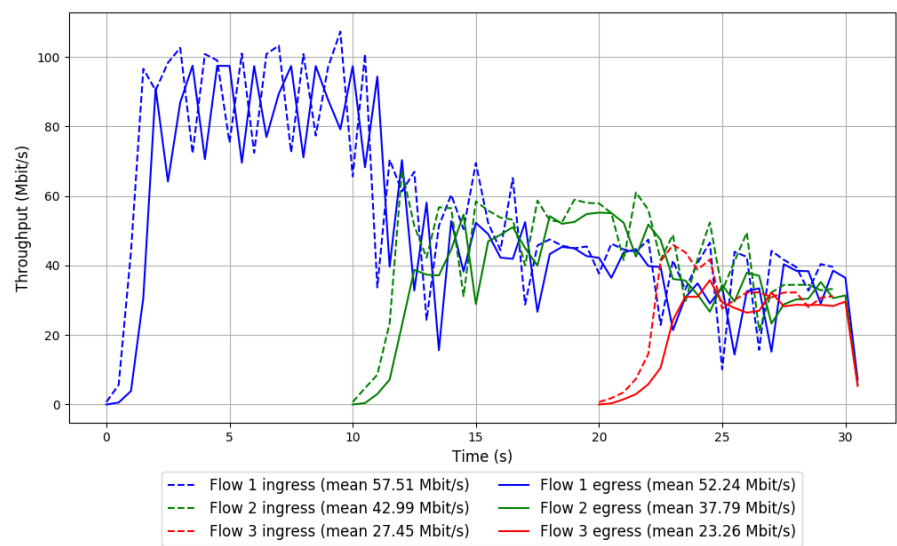


Run 2: Statistics of TCP BBR

Start at: 2018-08-09 09:22:13
End at: 2018-08-09 09:22:43
Local clock offset: -5.793 ms
Remote clock offset: -0.473 ms

Below is generated by plot.py at 2018-08-09 12:16:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.12 Mbit/s
95th percentile per-packet one-way delay: 115.571 ms
Loss rate: 10.58%
-- Flow 1:
Average throughput: 52.24 Mbit/s
95th percentile per-packet one-way delay: 115.635 ms
Loss rate: 9.09%
-- Flow 2:
Average throughput: 37.79 Mbit/s
95th percentile per-packet one-way delay: 110.642 ms
Loss rate: 12.10%
-- Flow 3:
Average throughput: 23.26 Mbit/s
95th percentile per-packet one-way delay: 110.707 ms
Loss rate: 15.23%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-08-09 09:43:29

End at: 2018-08-09 09:43:59

Local clock offset: -2.724 ms

Remote clock offset: 4.098 ms

Below is generated by plot.py at 2018-08-09 12:16:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.72 Mbit/s

95th percentile per-packet one-way delay: 120.431 ms

Loss rate: 11.08%

-- Flow 1:

Average throughput: 54.78 Mbit/s

95th percentile per-packet one-way delay: 115.212 ms

Loss rate: 9.09%

-- Flow 2:

Average throughput: 34.98 Mbit/s

95th percentile per-packet one-way delay: 120.601 ms

Loss rate: 13.13%

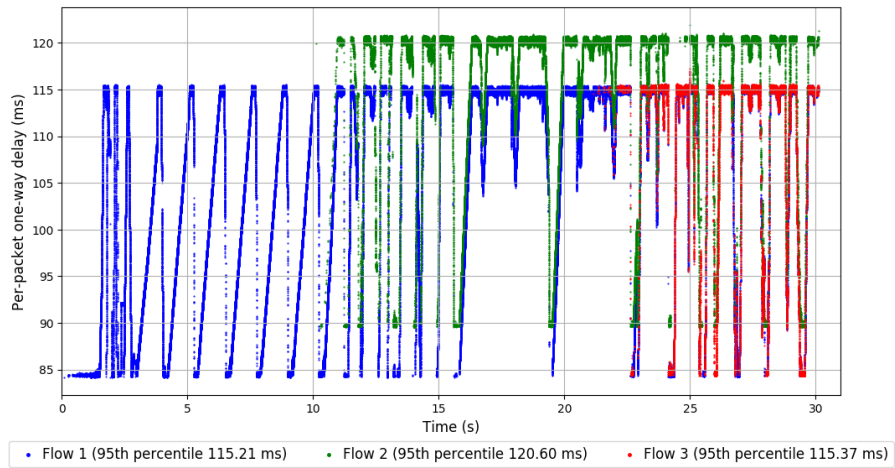
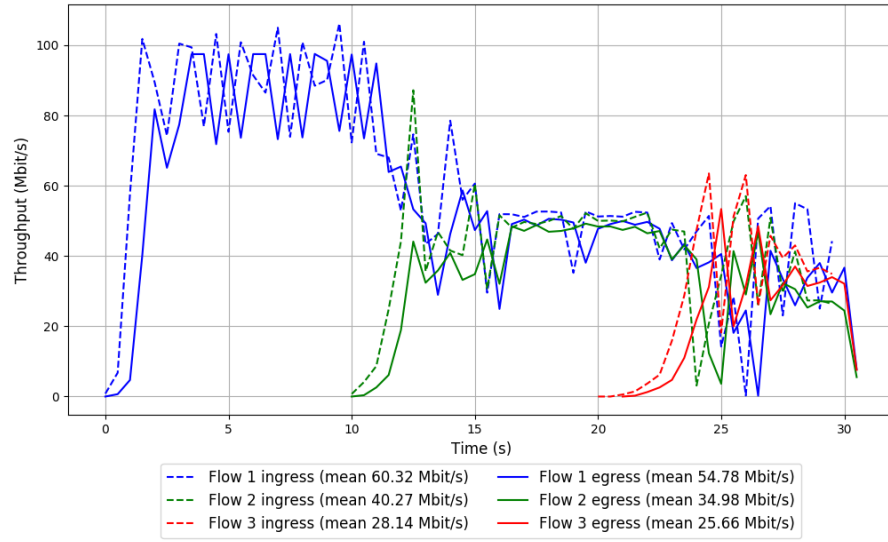
-- Flow 3:

Average throughput: 25.66 Mbit/s

95th percentile per-packet one-way delay: 115.371 ms

Loss rate: 18.06%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-08-09 10:04:38

End at: 2018-08-09 10:05:08

Local clock offset: -2.859 ms

Remote clock offset: 2.821 ms

Below is generated by plot.py at 2018-08-09 12:16:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.01 Mbit/s

95th percentile per-packet one-way delay: 117.136 ms

Loss rate: 10.36%

-- Flow 1:

Average throughput: 56.66 Mbit/s

95th percentile per-packet one-way delay: 113.980 ms

Loss rate: 8.46%

-- Flow 2:

Average throughput: 31.67 Mbit/s

95th percentile per-packet one-way delay: 114.327 ms

Loss rate: 12.35%

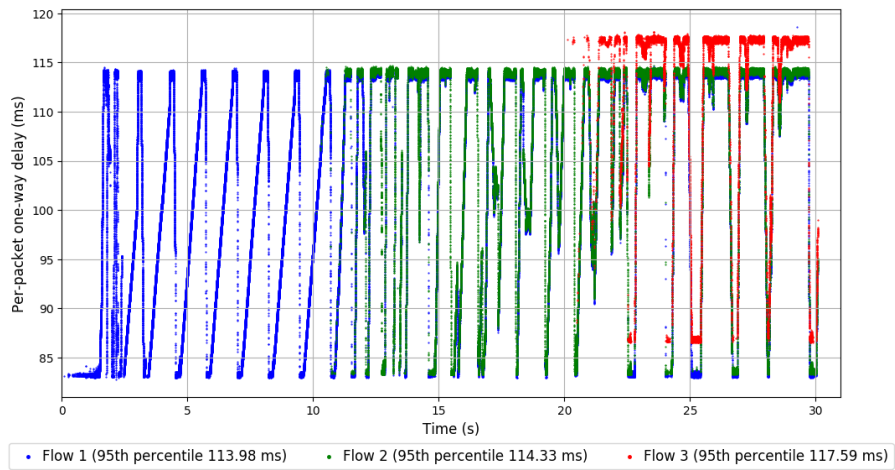
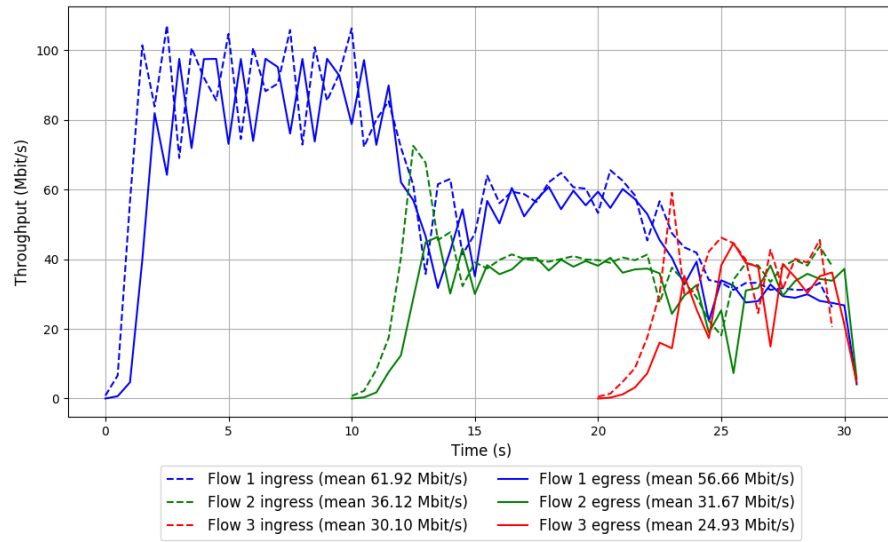
-- Flow 3:

Average throughput: 24.93 Mbit/s

95th percentile per-packet one-way delay: 117.591 ms

Loss rate: 17.34%

Run 4: Report of TCP BBR — Data Link

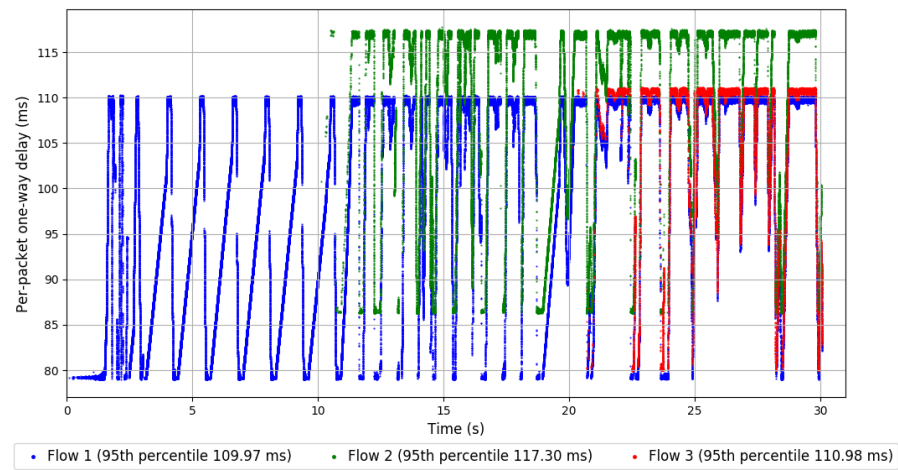
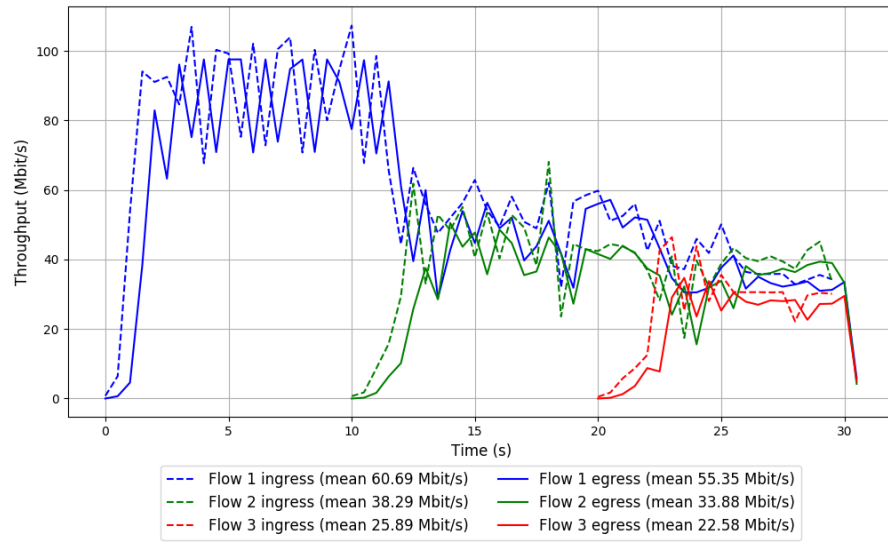


Run 5: Statistics of TCP BBR

Start at: 2018-08-09 10:25:50
End at: 2018-08-09 10:26:20
Local clock offset: -2.771 ms
Remote clock offset: -0.864 ms

Below is generated by plot.py at 2018-08-09 12:16:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.39 Mbit/s
95th percentile per-packet one-way delay: 117.144 ms
Loss rate: 9.91%
-- Flow 1:
Average throughput: 55.35 Mbit/s
95th percentile per-packet one-way delay: 109.967 ms
Loss rate: 8.78%
-- Flow 2:
Average throughput: 33.88 Mbit/s
95th percentile per-packet one-way delay: 117.300 ms
Loss rate: 11.57%
-- Flow 3:
Average throughput: 22.58 Mbit/s
95th percentile per-packet one-way delay: 110.980 ms
Loss rate: 12.96%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-08-09 10:47:03

End at: 2018-08-09 10:47:33

Local clock offset: -2.591 ms

Remote clock offset: 6.122 ms

Below is generated by plot.py at 2018-08-09 12:16:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.94 Mbit/s

95th percentile per-packet one-way delay: 116.722 ms

Loss rate: 10.56%

-- Flow 1:

Average throughput: 57.55 Mbit/s

95th percentile per-packet one-way delay: 114.922 ms

Loss rate: 11.01%

-- Flow 2:

Average throughput: 33.27 Mbit/s

95th percentile per-packet one-way delay: 116.931 ms

Loss rate: 10.22%

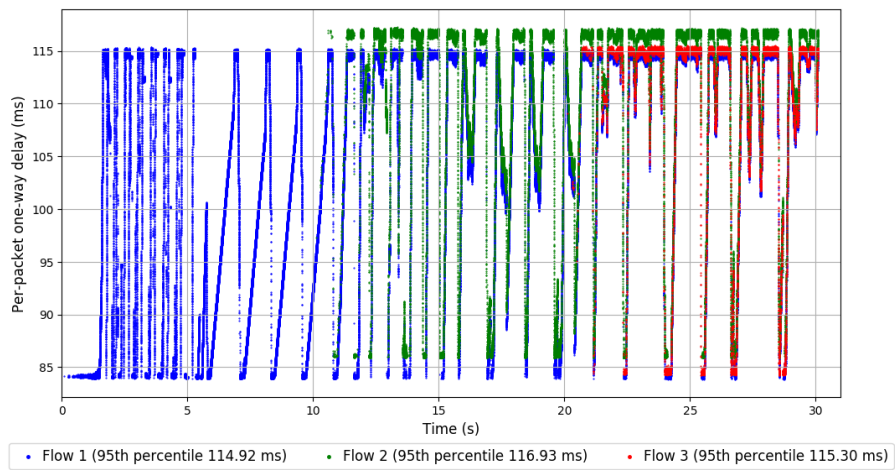
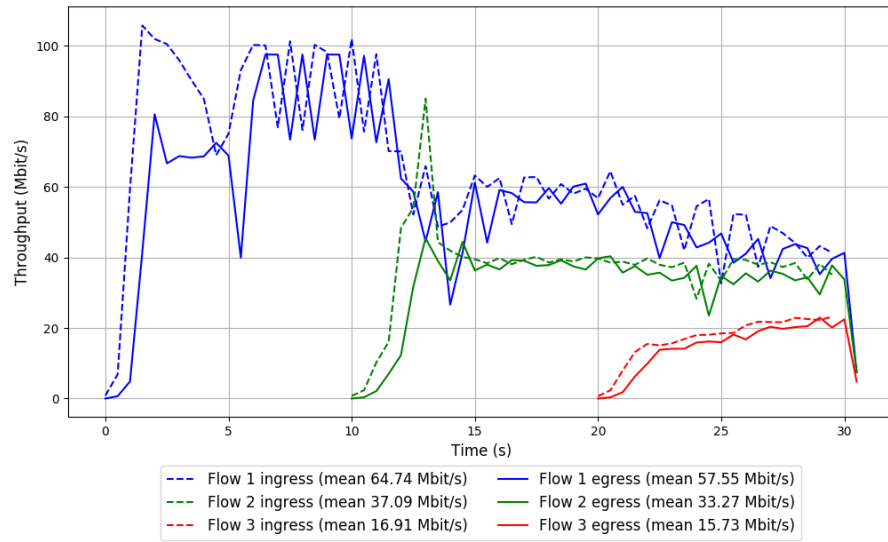
-- Flow 3:

Average throughput: 15.73 Mbit/s

95th percentile per-packet one-way delay: 115.299 ms

Loss rate: 6.96%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-08-09 11:08:15

End at: 2018-08-09 11:08:45

Local clock offset: -2.219 ms

Remote clock offset: 8.646 ms

Below is generated by plot.py at 2018-08-09 12:16:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.19 Mbit/s

95th percentile per-packet one-way delay: 121.362 ms

Loss rate: 9.36%

-- Flow 1:

Average throughput: 55.14 Mbit/s

95th percentile per-packet one-way delay: 121.425 ms

Loss rate: 7.91%

-- Flow 2:

Average throughput: 33.40 Mbit/s

95th percentile per-packet one-way delay: 118.044 ms

Loss rate: 11.33%

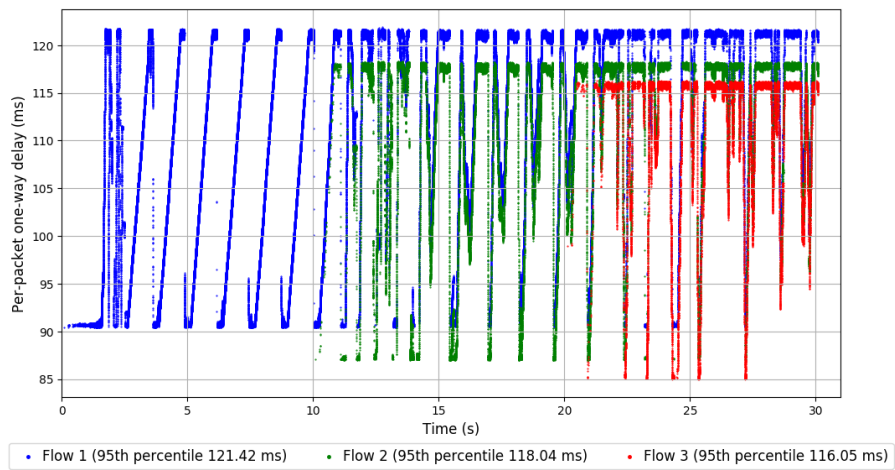
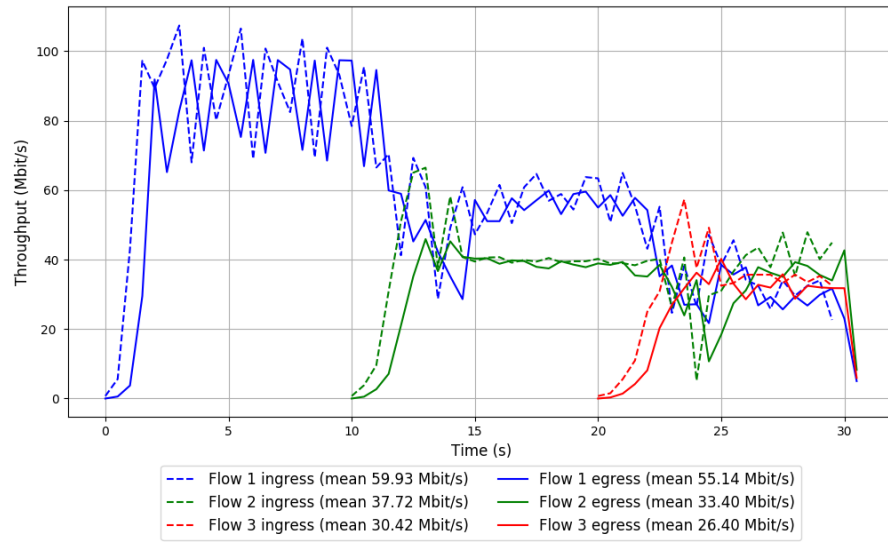
-- Flow 3:

Average throughput: 26.40 Mbit/s

95th percentile per-packet one-way delay: 116.054 ms

Loss rate: 13.08%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-08-09 11:29:33

End at: 2018-08-09 11:30:03

Local clock offset: -2.231 ms

Remote clock offset: 4.382 ms

Below is generated by plot.py at 2018-08-09 12:16:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.99 Mbit/s

95th percentile per-packet one-way delay: 115.699 ms

Loss rate: 9.63%

-- Flow 1:

Average throughput: 56.53 Mbit/s

95th percentile per-packet one-way delay: 113.967 ms

Loss rate: 8.50%

-- Flow 2:

Average throughput: 32.18 Mbit/s

95th percentile per-packet one-way delay: 115.803 ms

Loss rate: 11.73%

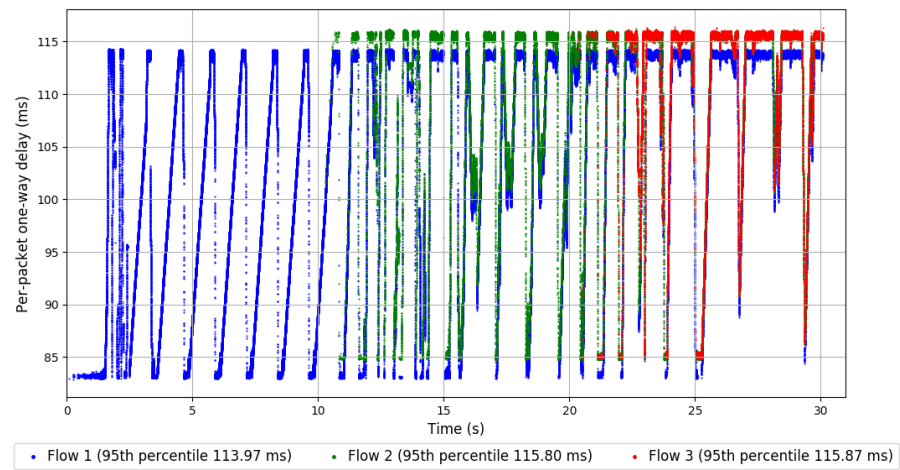
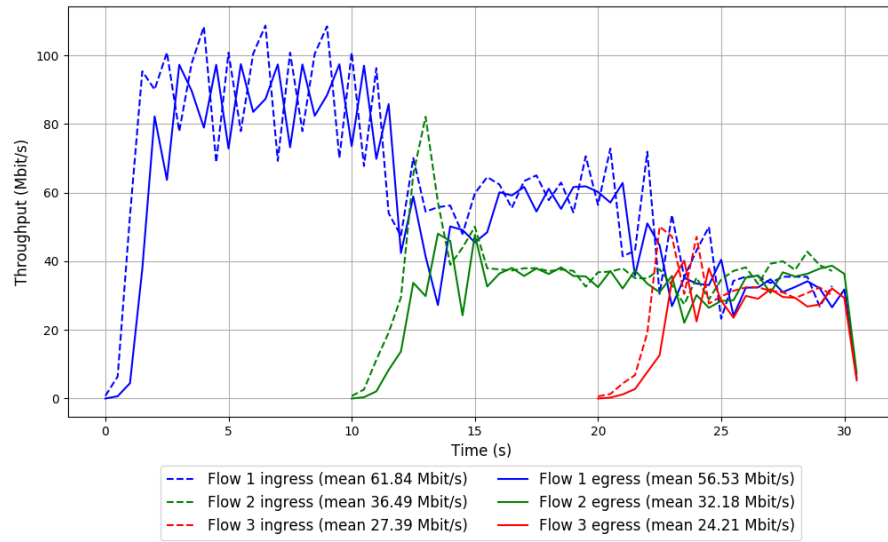
-- Flow 3:

Average throughput: 24.21 Mbit/s

95th percentile per-packet one-way delay: 115.868 ms

Loss rate: 11.64%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-08-09 11:50:46

End at: 2018-08-09 11:51:16

Local clock offset: -2.244 ms

Remote clock offset: 0.342 ms

Below is generated by plot.py at 2018-08-09 12:17:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.05 Mbit/s

95th percentile per-packet one-way delay: 113.568 ms

Loss rate: 10.04%

-- Flow 1:

Average throughput: 53.76 Mbit/s

95th percentile per-packet one-way delay: 113.628 ms

Loss rate: 8.08%

-- Flow 2:

Average throughput: 37.15 Mbit/s

95th percentile per-packet one-way delay: 110.156 ms

Loss rate: 12.42%

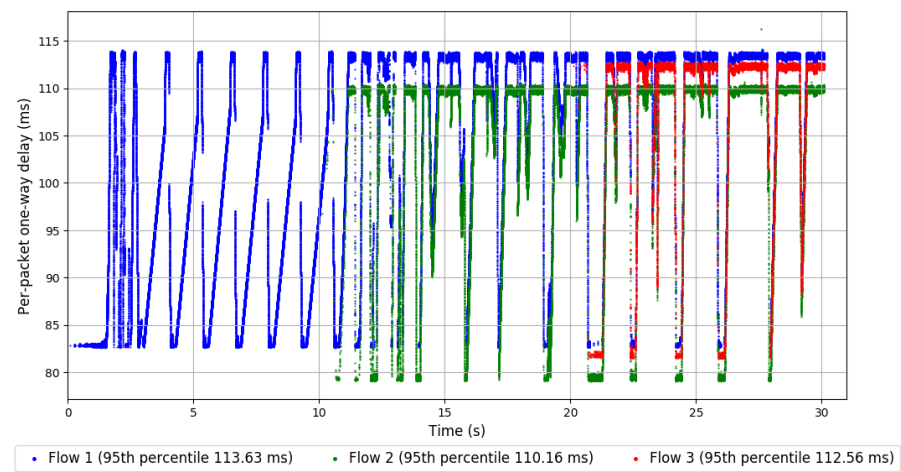
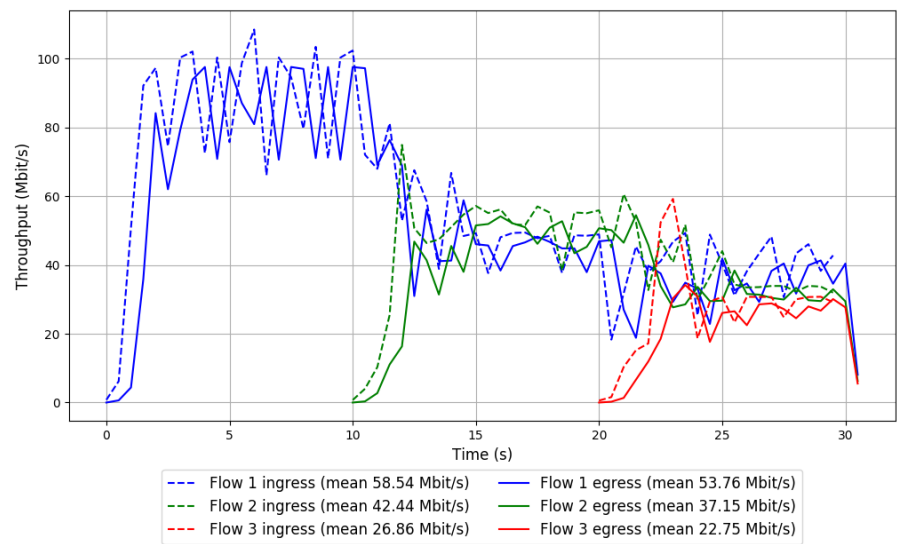
-- Flow 3:

Average throughput: 22.75 Mbit/s

95th percentile per-packet one-way delay: 112.564 ms

Loss rate: 15.35%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-08-09 12:11:59

End at: 2018-08-09 12:12:29

Local clock offset: -2.314 ms

Remote clock offset: 5.077 ms

Below is generated by plot.py at 2018-08-09 12:17:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.73 Mbit/s

95th percentile per-packet one-way delay: 116.509 ms

Loss rate: 9.28%

-- Flow 1:

Average throughput: 59.78 Mbit/s

95th percentile per-packet one-way delay: 115.515 ms

Loss rate: 8.49%

-- Flow 2:

Average throughput: 33.81 Mbit/s

95th percentile per-packet one-way delay: 116.707 ms

Loss rate: 11.55%

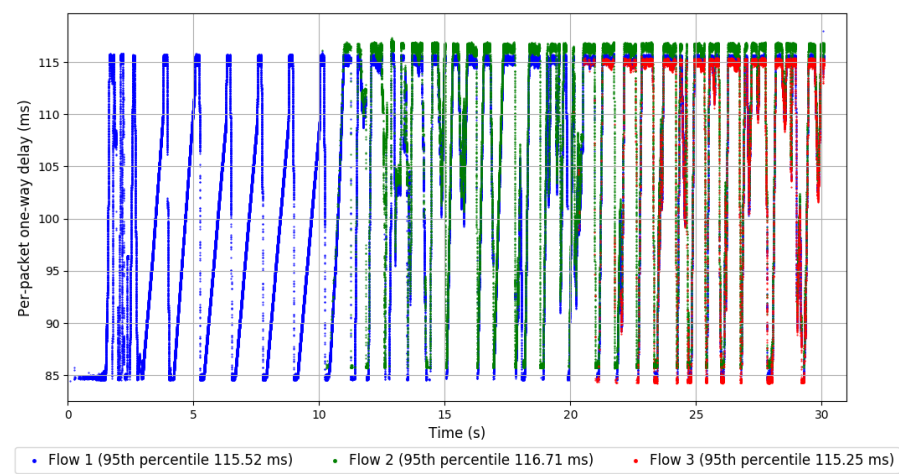
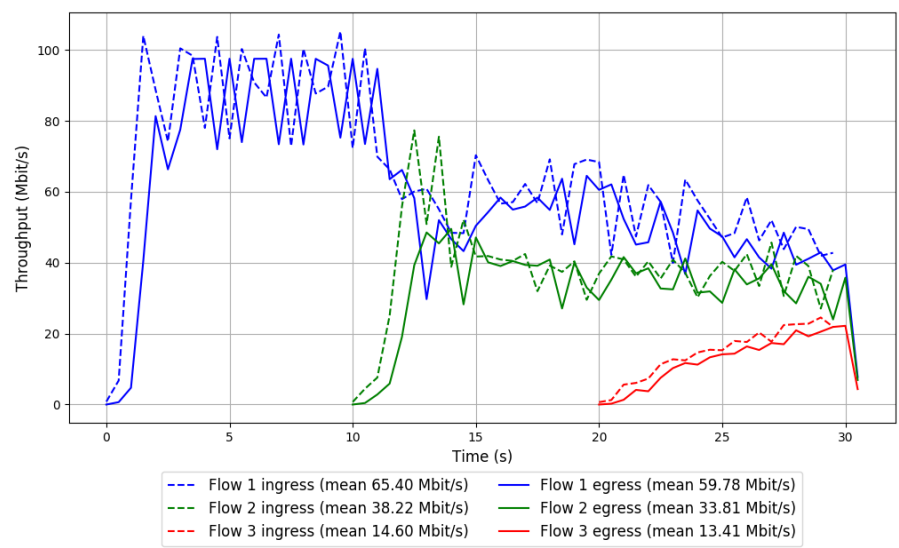
-- Flow 3:

Average throughput: 13.41 Mbit/s

95th percentile per-packet one-way delay: 115.249 ms

Loss rate: 8.12%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-08-09 08:53:30

End at: 2018-08-09 08:54:00

Local clock offset: -8.208 ms

Remote clock offset: 1.272 ms

Below is generated by plot.py at 2018-08-09 12:18:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.74 Mbit/s

95th percentile per-packet one-way delay: 109.046 ms

Loss rate: 4.80%

-- Flow 1:

Average throughput: 46.50 Mbit/s

95th percentile per-packet one-way delay: 108.952 ms

Loss rate: 6.10%

-- Flow 2:

Average throughput: 25.11 Mbit/s

95th percentile per-packet one-way delay: 110.457 ms

Loss rate: 3.25%

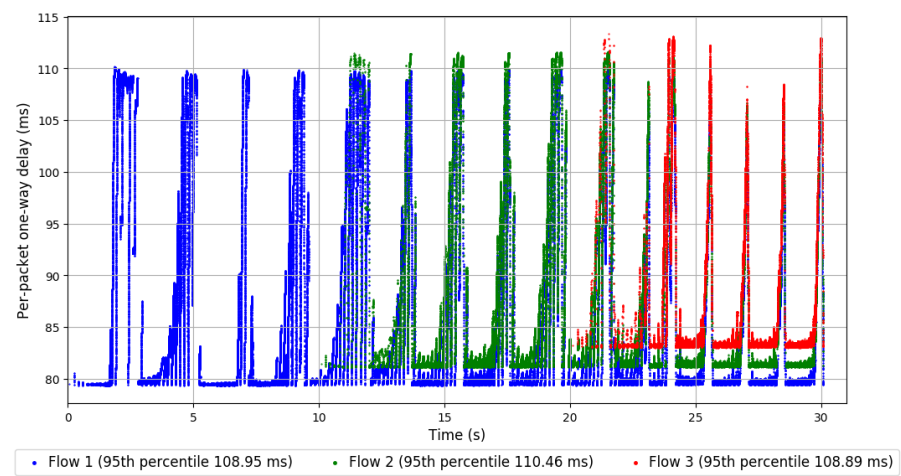
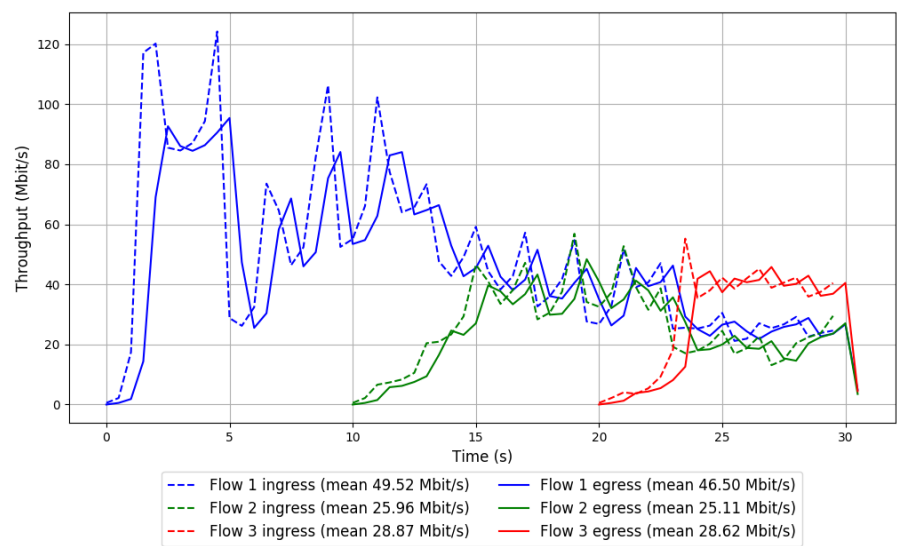
-- Flow 3:

Average throughput: 28.62 Mbit/s

95th percentile per-packet one-way delay: 108.885 ms

Loss rate: 0.90%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-08-09 09:14:44

End at: 2018-08-09 09:15:14

Local clock offset: -8.433 ms

Remote clock offset: 0.696 ms

Below is generated by plot.py at 2018-08-09 12:18:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.54 Mbit/s

95th percentile per-packet one-way delay: 116.461 ms

Loss rate: 3.97%

-- Flow 1:

Average throughput: 51.32 Mbit/s

95th percentile per-packet one-way delay: 116.777 ms

Loss rate: 4.63%

-- Flow 2:

Average throughput: 29.12 Mbit/s

95th percentile per-packet one-way delay: 110.293 ms

Loss rate: 3.08%

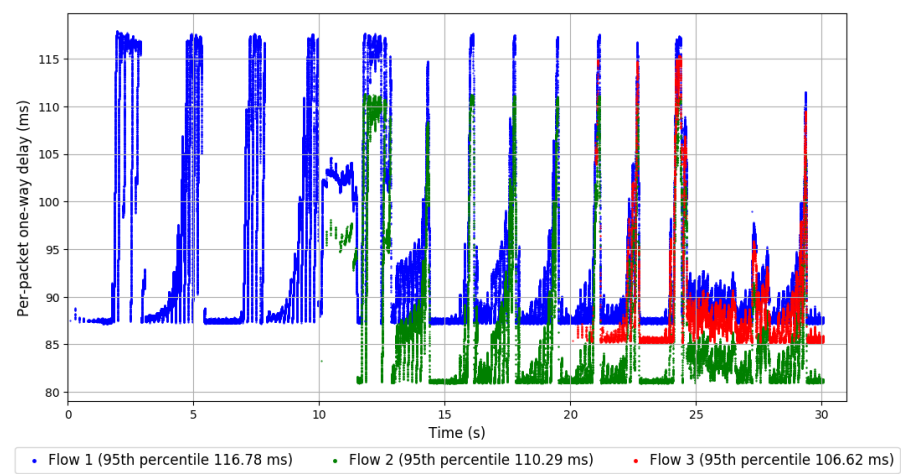
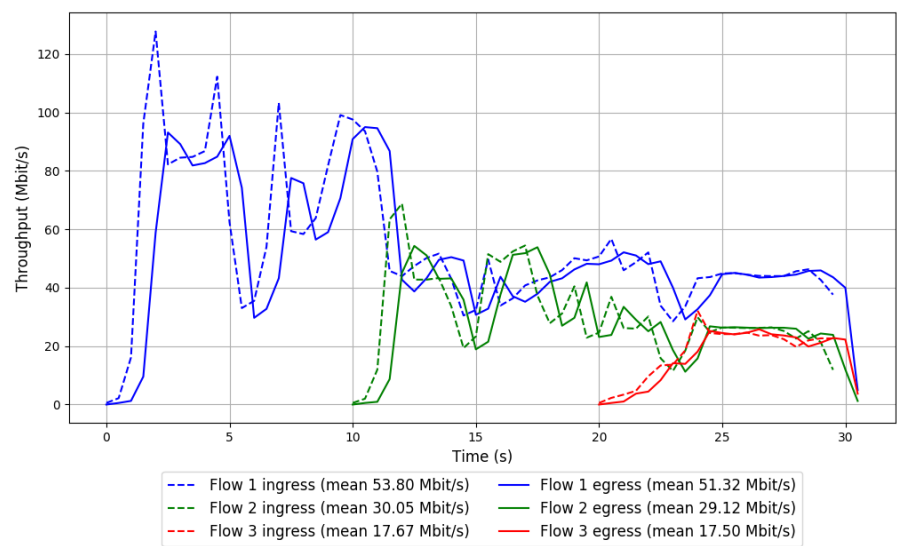
-- Flow 3:

Average throughput: 17.50 Mbit/s

95th percentile per-packet one-way delay: 106.622 ms

Loss rate: 1.03%

Run 2: Report of Copa — Data Link

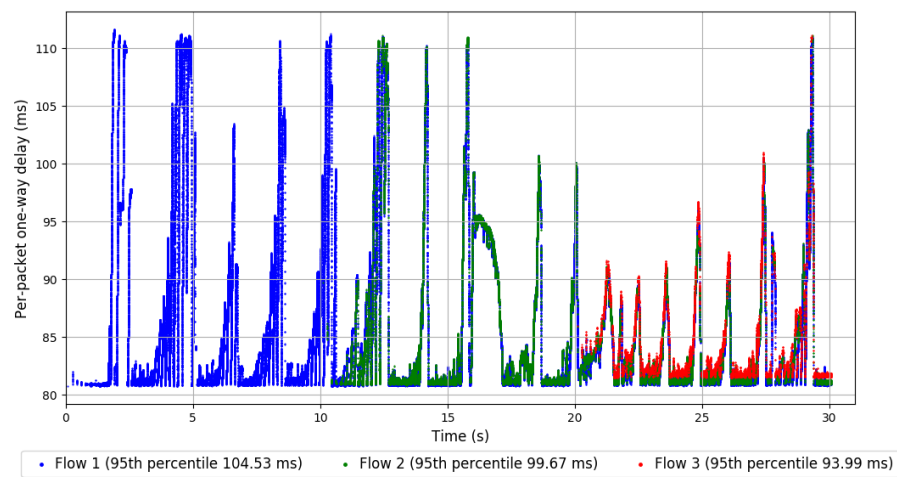
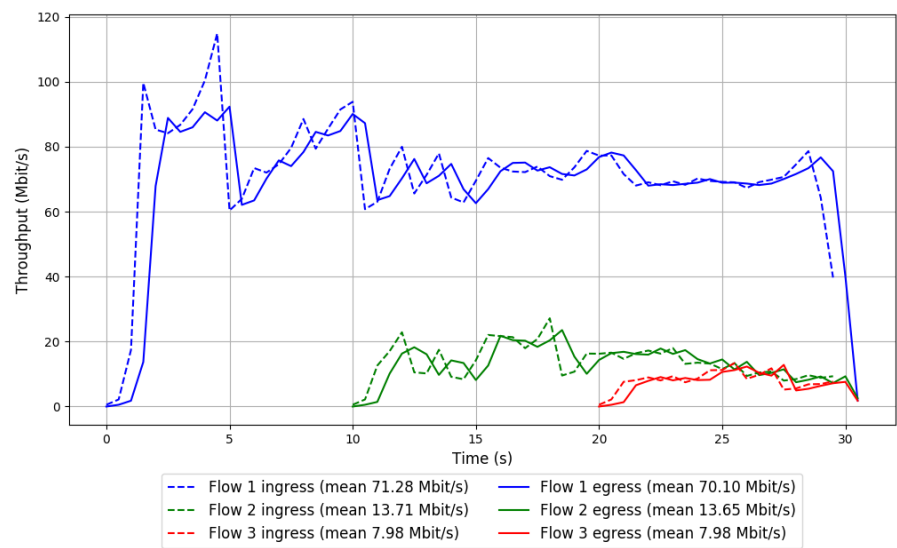


Run 3: Statistics of Copa

Start at: 2018-08-09 09:35:54
End at: 2018-08-09 09:36:24
Local clock offset: -3.319 ms
Remote clock offset: -0.717 ms

Below is generated by plot.py at 2018-08-09 12:18:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 81.84 Mbit/s
95th percentile per-packet one-way delay: 103.908 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 70.10 Mbit/s
95th percentile per-packet one-way delay: 104.525 ms
Loss rate: 1.66%
-- Flow 2:
Average throughput: 13.65 Mbit/s
95th percentile per-packet one-way delay: 99.668 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 7.98 Mbit/s
95th percentile per-packet one-way delay: 93.994 ms
Loss rate: 0.07%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-08-09 09:57:12

End at: 2018-08-09 09:57:42

Local clock offset: -2.949 ms

Remote clock offset: 0.125 ms

Below is generated by plot.py at 2018-08-09 12:18:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.54 Mbit/s

95th percentile per-packet one-way delay: 95.647 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 80.04 Mbit/s

95th percentile per-packet one-way delay: 96.070 ms

Loss rate: 0.87%

-- Flow 2:

Average throughput: 9.69 Mbit/s

95th percentile per-packet one-way delay: 93.164 ms

Loss rate: 0.01%

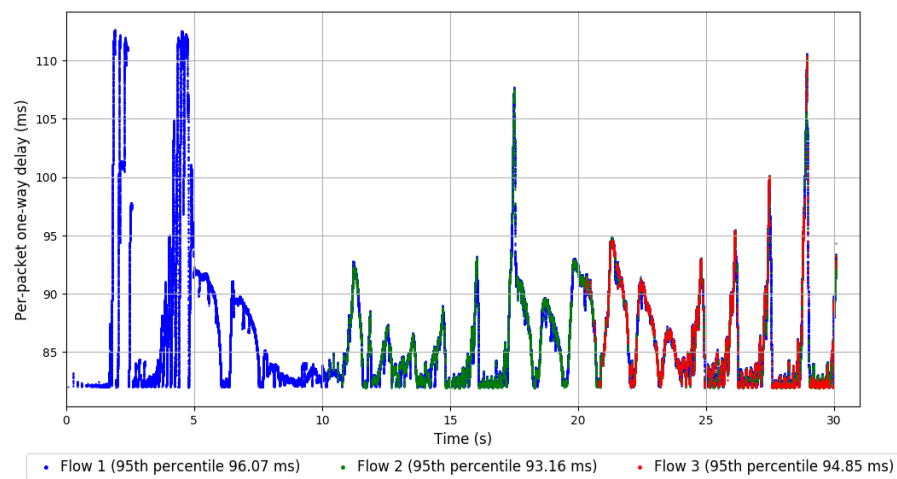
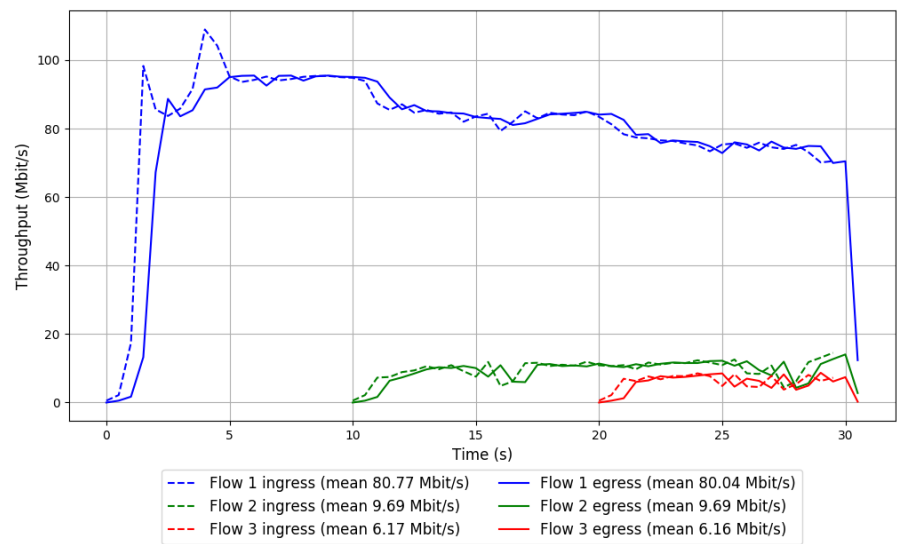
-- Flow 3:

Average throughput: 6.16 Mbit/s

95th percentile per-packet one-way delay: 94.853 ms

Loss rate: 0.02%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-08-09 10:18:23

End at: 2018-08-09 10:18:53

Local clock offset: -2.692 ms

Remote clock offset: 4.111 ms

Below is generated by plot.py at 2018-08-09 12:18:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.98 Mbit/s

95th percentile per-packet one-way delay: 107.678 ms

Loss rate: 1.47%

-- Flow 1:

Average throughput: 63.22 Mbit/s

95th percentile per-packet one-way delay: 108.026 ms

Loss rate: 1.61%

-- Flow 2:

Average throughput: 13.31 Mbit/s

95th percentile per-packet one-way delay: 105.100 ms

Loss rate: 0.56%

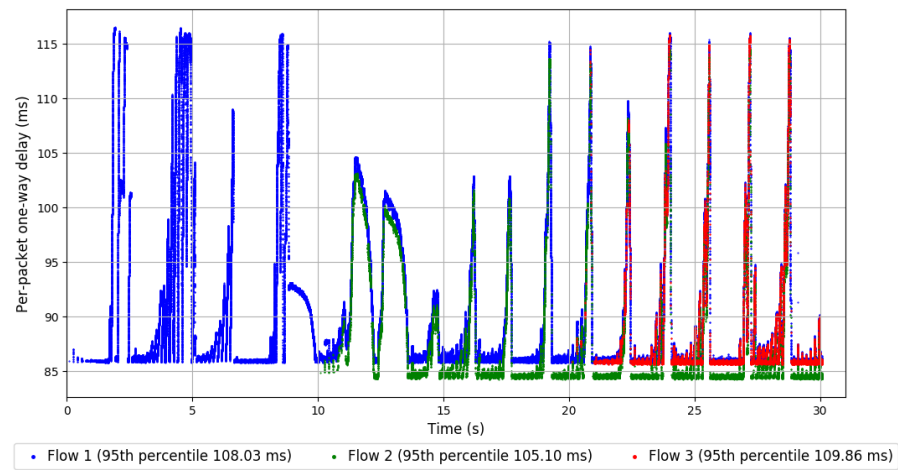
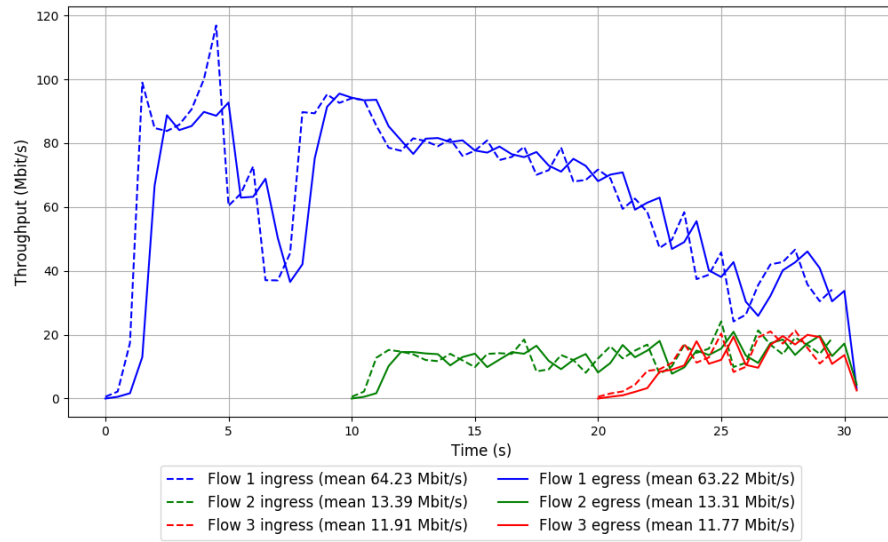
-- Flow 3:

Average throughput: 11.77 Mbit/s

95th percentile per-packet one-way delay: 109.856 ms

Loss rate: 1.14%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-08-09 10:39:34

End at: 2018-08-09 10:40:04

Local clock offset: -2.639 ms

Remote clock offset: 0.222 ms

Below is generated by plot.py at 2018-08-09 12:18:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.53 Mbit/s

95th percentile per-packet one-way delay: 101.871 ms

Loss rate: 1.51%

-- Flow 1:

Average throughput: 68.26 Mbit/s

95th percentile per-packet one-way delay: 103.954 ms

Loss rate: 1.80%

-- Flow 2:

Average throughput: 15.94 Mbit/s

95th percentile per-packet one-way delay: 92.924 ms

Loss rate: 0.01%

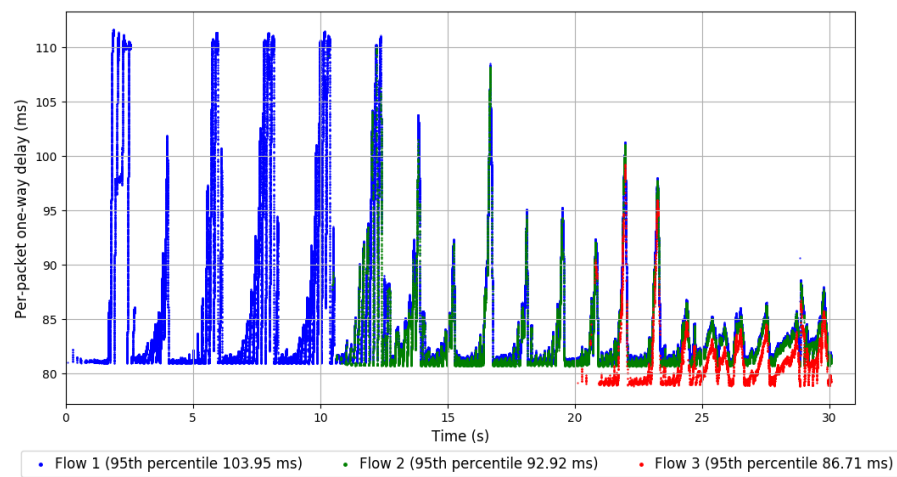
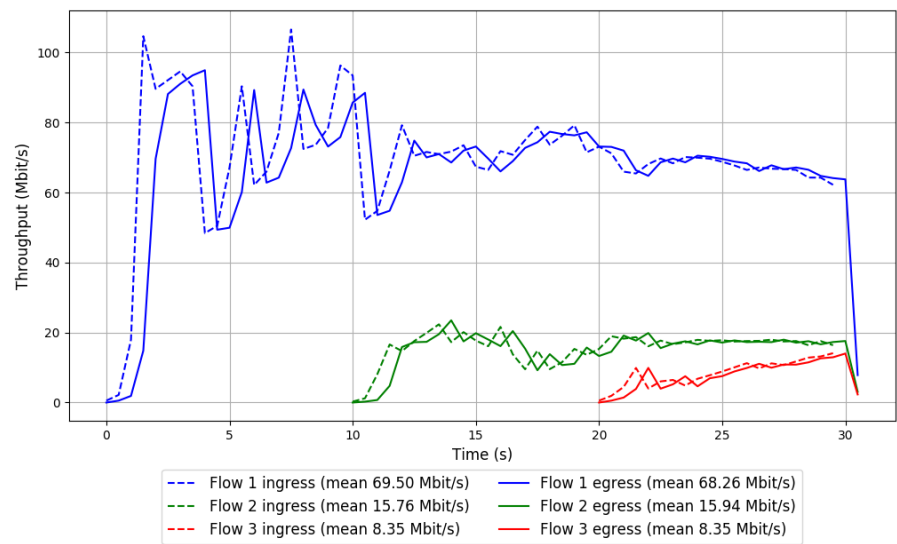
-- Flow 3:

Average throughput: 8.35 Mbit/s

95th percentile per-packet one-way delay: 86.709 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-08-09 11:00:48

End at: 2018-08-09 11:01:18

Local clock offset: -2.417 ms

Remote clock offset: 3.431 ms

Below is generated by plot.py at 2018-08-09 12:19:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.59 Mbit/s

95th percentile per-packet one-way delay: 99.585 ms

Loss rate: 1.16%

-- Flow 1:

Average throughput: 74.55 Mbit/s

95th percentile per-packet one-way delay: 101.606 ms

Loss rate: 1.31%

-- Flow 2:

Average throughput: 9.12 Mbit/s

95th percentile per-packet one-way delay: 91.411 ms

Loss rate: 0.00%

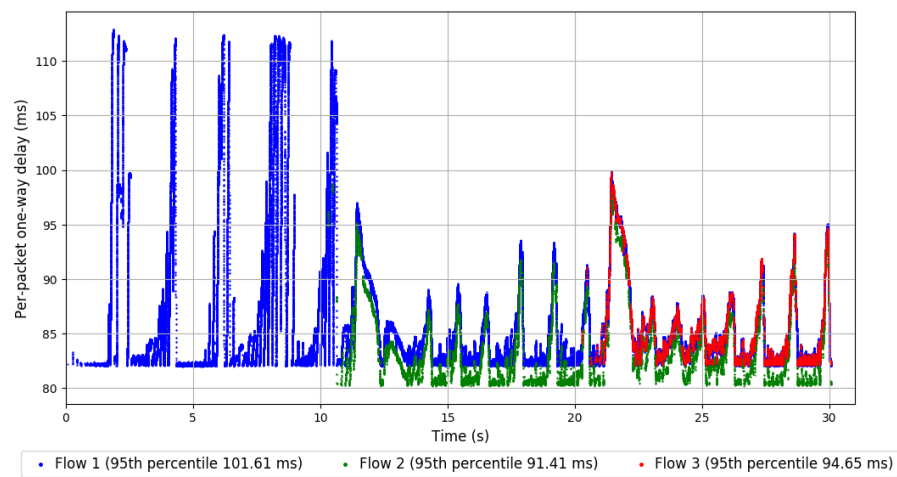
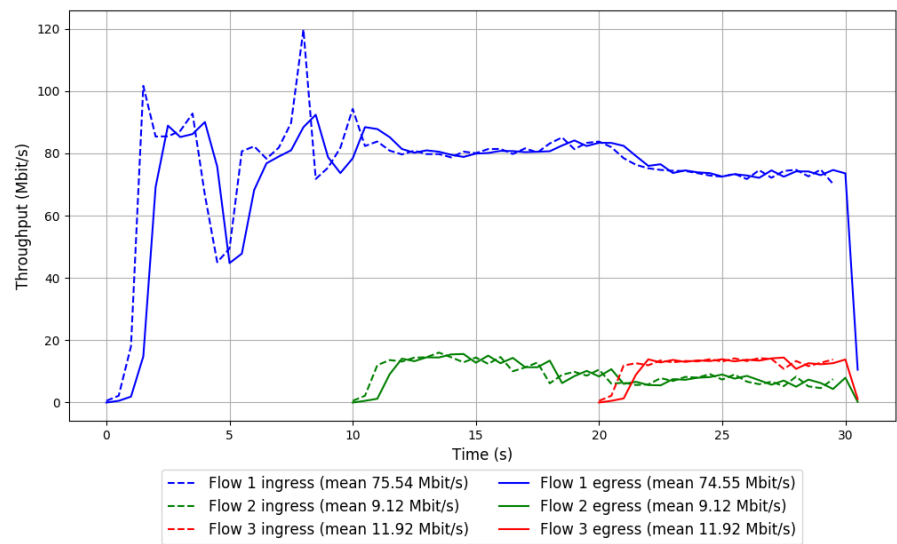
-- Flow 3:

Average throughput: 11.92 Mbit/s

95th percentile per-packet one-way delay: 94.647 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-08-09 11:22:02

End at: 2018-08-09 11:22:32

Local clock offset: -2.283 ms

Remote clock offset: 0.816 ms

Below is generated by plot.py at 2018-08-09 12:19:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.62 Mbit/s

95th percentile per-packet one-way delay: 100.374 ms

Loss rate: 1.88%

-- Flow 1:

Average throughput: 71.17 Mbit/s

95th percentile per-packet one-way delay: 101.516 ms

Loss rate: 2.14%

-- Flow 2:

Average throughput: 11.72 Mbit/s

95th percentile per-packet one-way delay: 91.117 ms

Loss rate: 0.00%

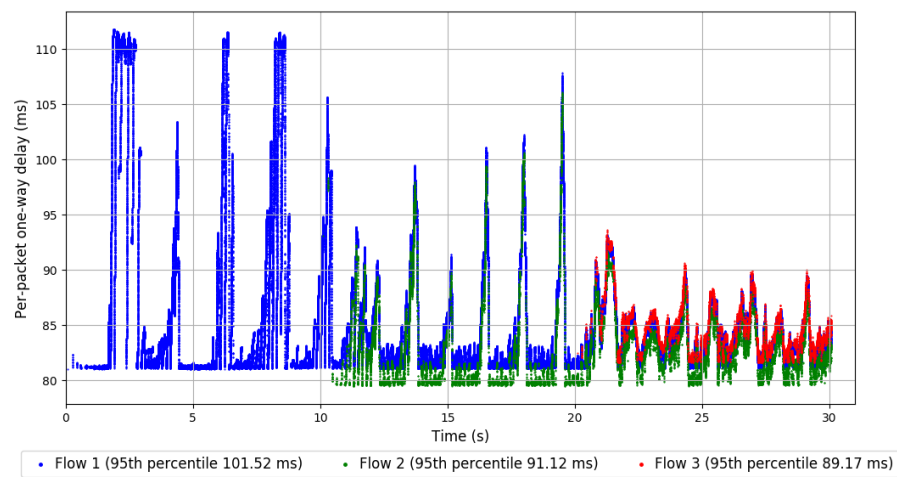
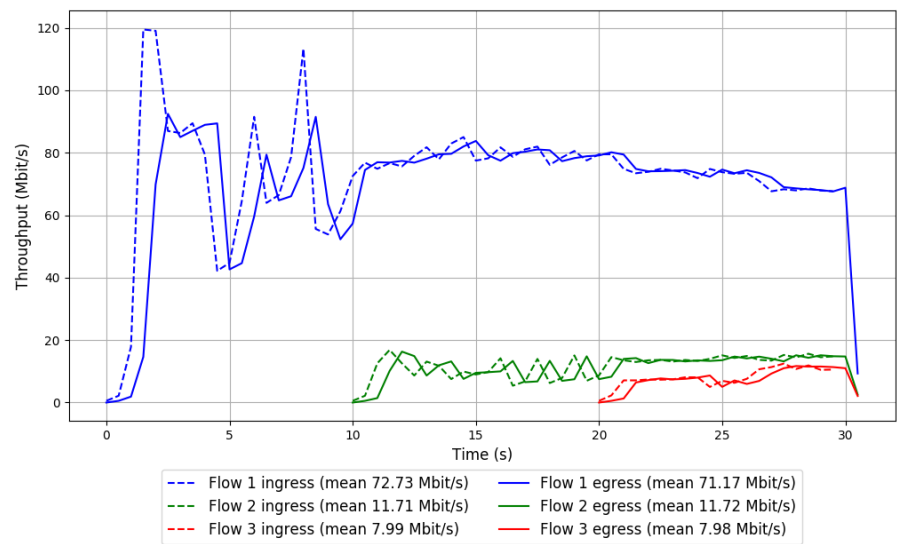
-- Flow 3:

Average throughput: 7.98 Mbit/s

95th percentile per-packet one-way delay: 89.170 ms

Loss rate: 0.05%

Run 8: Report of Copa — Data Link

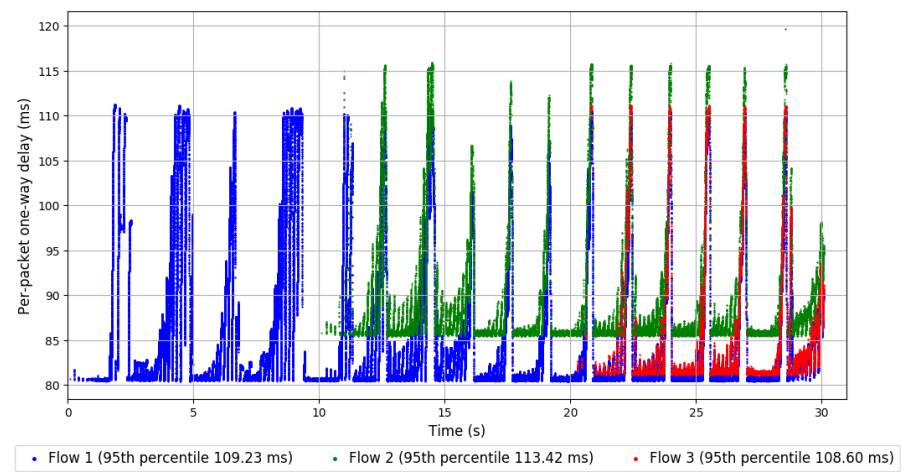
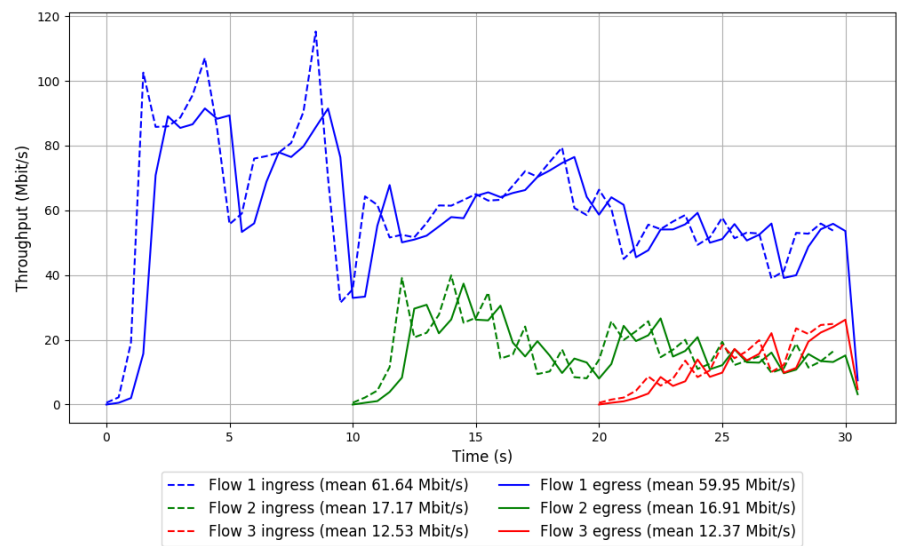


Run 9: Statistics of Copa

Start at: 2018-08-09 11:43:20
End at: 2018-08-09 11:43:50
Local clock offset: -2.142 ms
Remote clock offset: 1.558 ms

Below is generated by plot.py at 2018-08-09 12:20:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 75.33 Mbit/s
95th percentile per-packet one-way delay: 109.611 ms
Loss rate: 2.43%
-- Flow 1:
Average throughput: 59.95 Mbit/s
95th percentile per-packet one-way delay: 109.226 ms
Loss rate: 2.71%
-- Flow 2:
Average throughput: 16.91 Mbit/s
95th percentile per-packet one-way delay: 113.424 ms
Loss rate: 1.44%
-- Flow 3:
Average throughput: 12.37 Mbit/s
95th percentile per-packet one-way delay: 108.599 ms
Loss rate: 1.14%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-08-09 12:04:31

End at: 2018-08-09 12:05:01

Local clock offset: -2.312 ms

Remote clock offset: 1.438 ms

Below is generated by plot.py at 2018-08-09 12:20:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.89 Mbit/s

95th percentile per-packet one-way delay: 103.314 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 82.05 Mbit/s

95th percentile per-packet one-way delay: 103.813 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 6.99 Mbit/s

95th percentile per-packet one-way delay: 92.162 ms

Loss rate: 0.00%

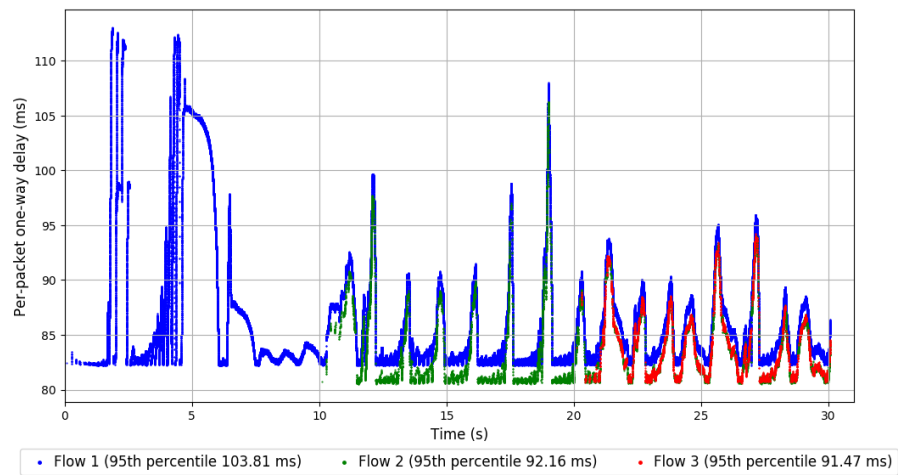
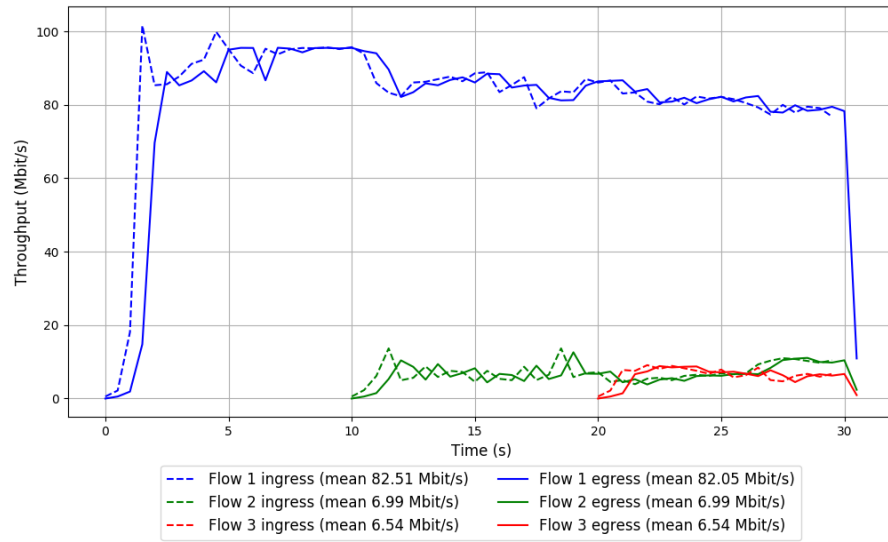
-- Flow 3:

Average throughput: 6.54 Mbit/s

95th percentile per-packet one-way delay: 91.471 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-08-09 08:57:17

End at: 2018-08-09 08:57:47

Local clock offset: -8.198 ms

Remote clock offset: 6.646 ms

Below is generated by plot.py at 2018-08-09 12:20:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.52 Mbit/s

95th percentile per-packet one-way delay: 114.229 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 52.83 Mbit/s

95th percentile per-packet one-way delay: 113.967 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 39.44 Mbit/s

95th percentile per-packet one-way delay: 113.949 ms

Loss rate: 0.63%

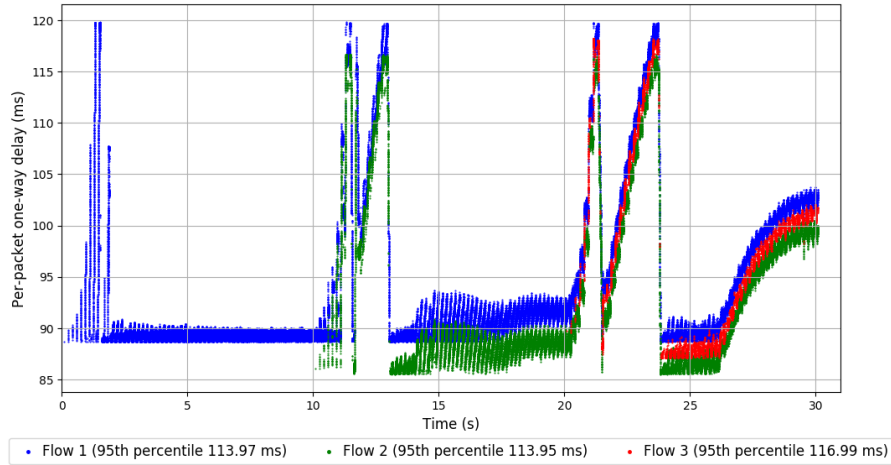
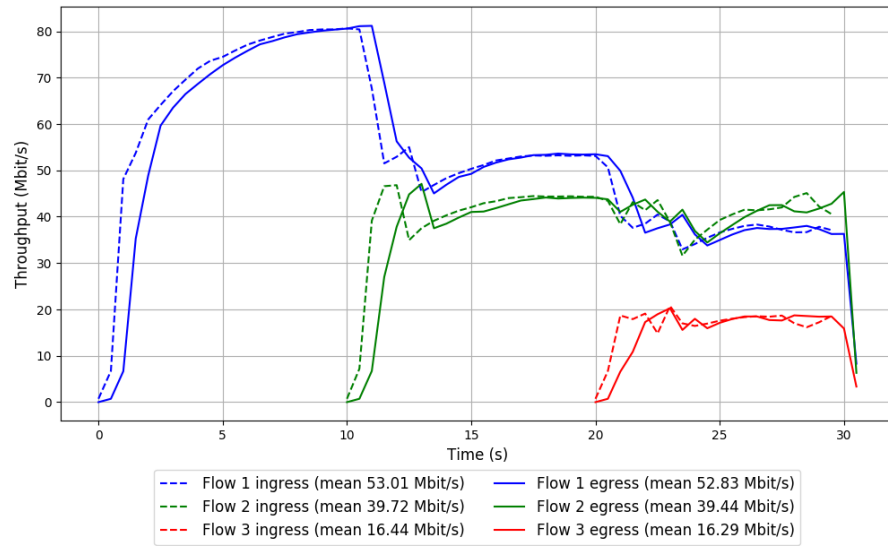
-- Flow 3:

Average throughput: 16.29 Mbit/s

95th percentile per-packet one-way delay: 116.994 ms

Loss rate: 0.82%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-08-09 09:18:31

End at: 2018-08-09 09:19:01

Local clock offset: -7.062 ms

Remote clock offset: 0.64 ms

Below is generated by plot.py at 2018-08-09 12:20:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.42 Mbit/s

95th percentile per-packet one-way delay: 109.775 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 41.13 Mbit/s

95th percentile per-packet one-way delay: 109.646 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 32.21 Mbit/s

95th percentile per-packet one-way delay: 109.514 ms

Loss rate: 0.65%

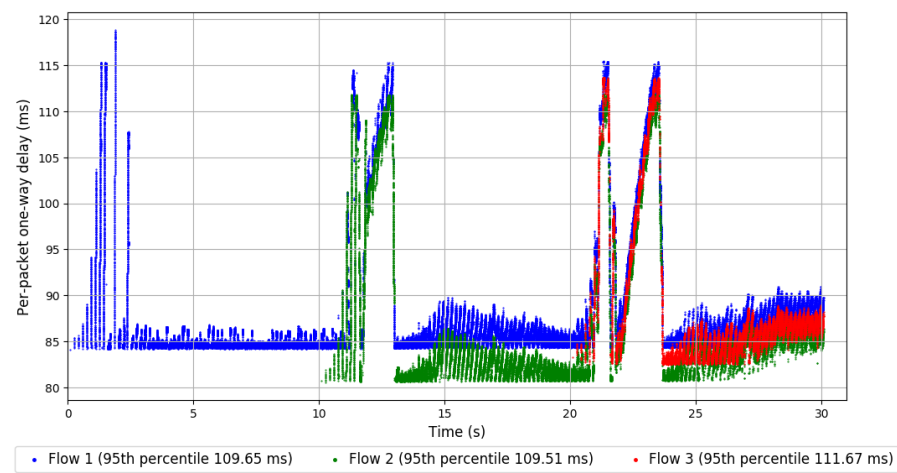
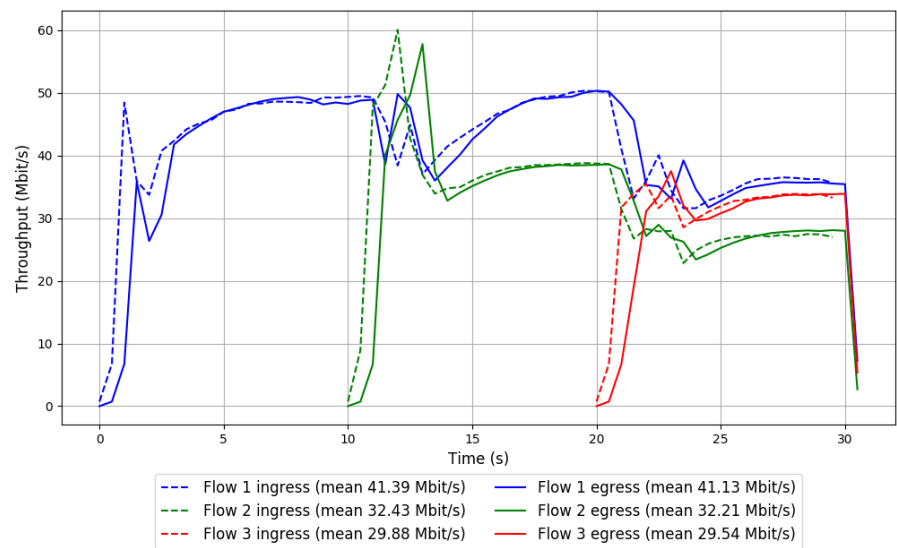
-- Flow 3:

Average throughput: 29.54 Mbit/s

95th percentile per-packet one-way delay: 111.671 ms

Loss rate: 1.11%

Run 2: Report of TCP Cubic — Data Link

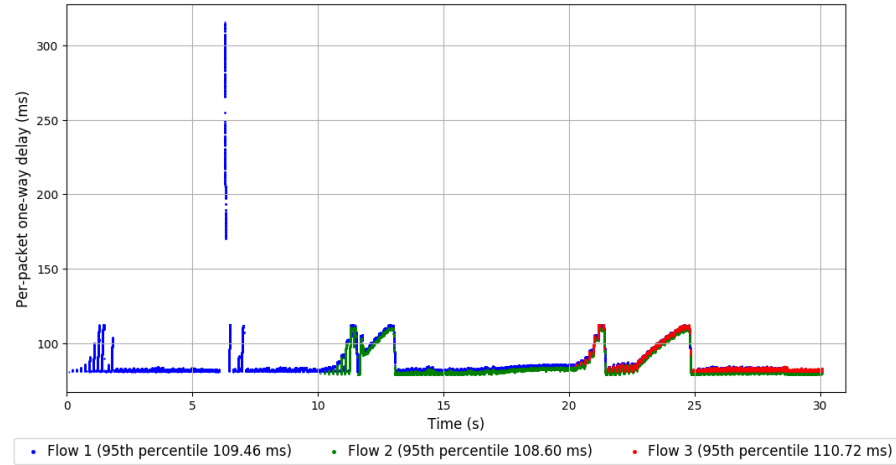
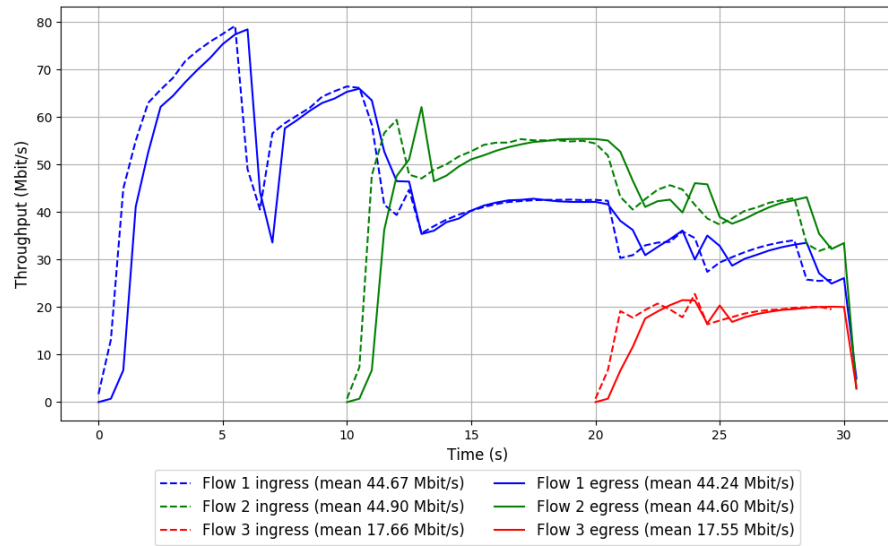


Run 3: Statistics of TCP Cubic

Start at: 2018-08-09 09:39:41
End at: 2018-08-09 09:40:11
Local clock offset: -3.002 ms
Remote clock offset: -0.696 ms

Below is generated by plot.py at 2018-08-09 12:20:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.79 Mbit/s
95th percentile per-packet one-way delay: 109.018 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 44.24 Mbit/s
95th percentile per-packet one-way delay: 109.460 ms
Loss rate: 0.95%
-- Flow 2:
Average throughput: 44.60 Mbit/s
95th percentile per-packet one-way delay: 108.599 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 17.55 Mbit/s
95th percentile per-packet one-way delay: 110.715 ms
Loss rate: 0.64%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-08-09 10:00:59

End at: 2018-08-09 10:01:29

Local clock offset: -2.908 ms

Remote clock offset: 3.932 ms

Below is generated by plot.py at 2018-08-09 12:20:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.55 Mbit/s

95th percentile per-packet one-way delay: 108.636 ms

Loss rate: 1.08%

-- Flow 1:

Average throughput: 30.58 Mbit/s

95th percentile per-packet one-way delay: 107.537 ms

Loss rate: 0.85%

-- Flow 2:

Average throughput: 34.74 Mbit/s

95th percentile per-packet one-way delay: 106.453 ms

Loss rate: 1.16%

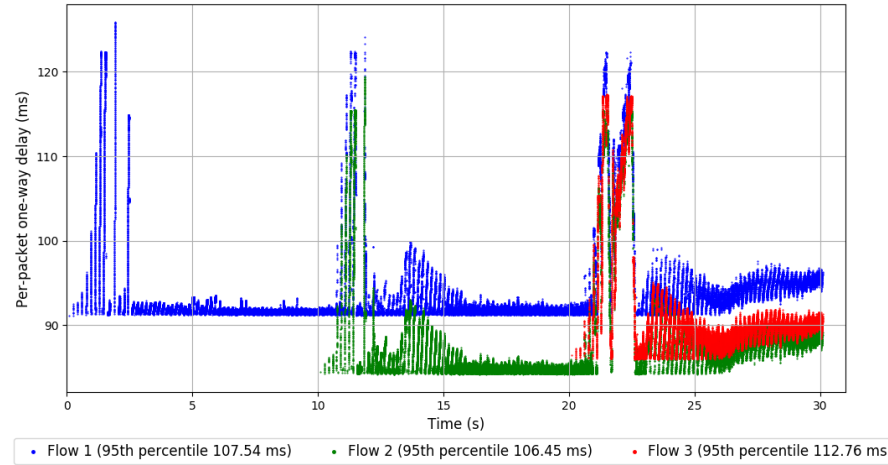
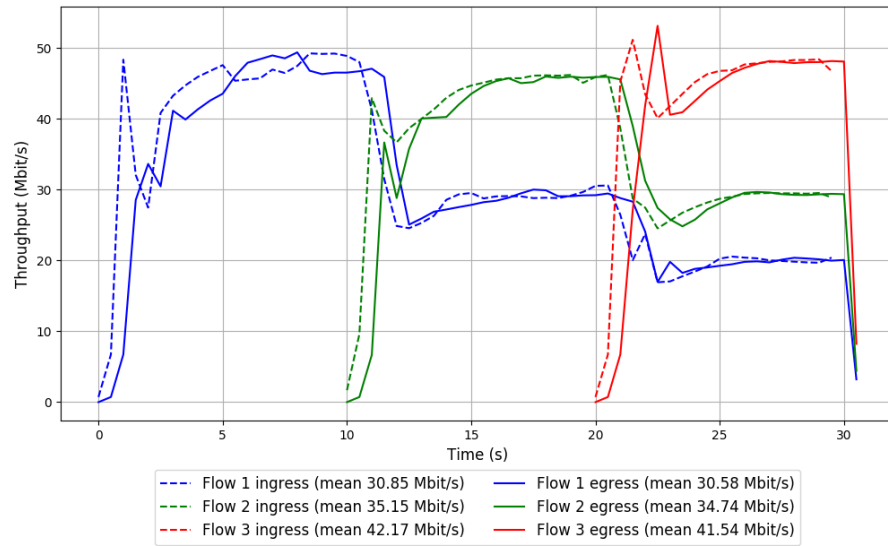
-- Flow 3:

Average throughput: 41.54 Mbit/s

95th percentile per-packet one-way delay: 112.764 ms

Loss rate: 1.46%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-08-09 10:22:09

End at: 2018-08-09 10:22:39

Local clock offset: -2.764 ms

Remote clock offset: 4.003 ms

Below is generated by plot.py at 2018-08-09 12:20:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 70.94 Mbit/s

95th percentile per-packet one-way delay: 113.285 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 27.73 Mbit/s

95th percentile per-packet one-way delay: 111.720 ms

Loss rate: 0.74%

-- Flow 2:

Average throughput: 54.71 Mbit/s

95th percentile per-packet one-way delay: 114.559 ms

Loss rate: 0.35%

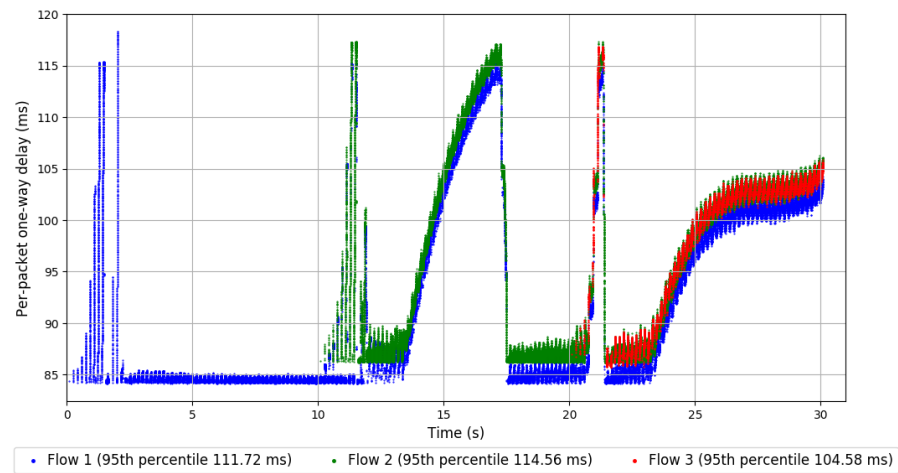
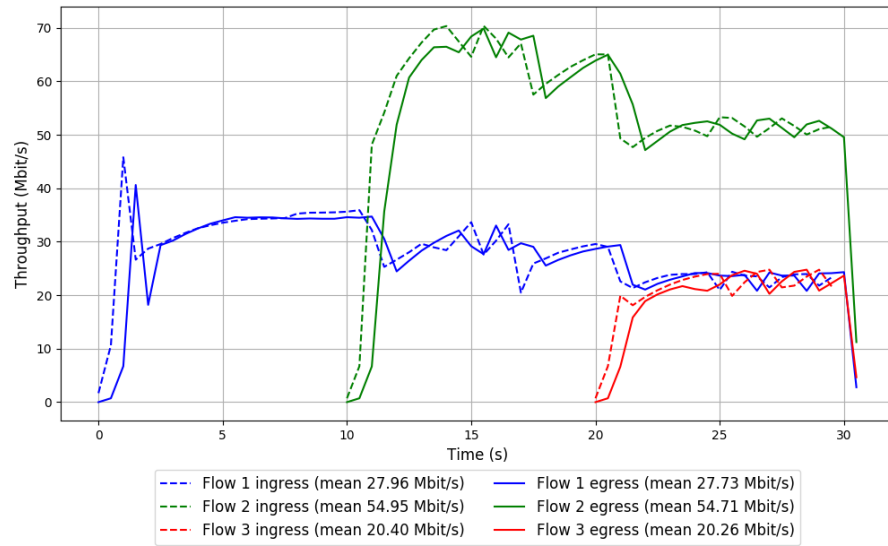
-- Flow 3:

Average throughput: 20.26 Mbit/s

95th percentile per-packet one-way delay: 104.576 ms

Loss rate: 0.53%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-08-09 10:43:22

End at: 2018-08-09 10:43:52

Local clock offset: -2.572 ms

Remote clock offset: 1.89 ms

Below is generated by plot.py at 2018-08-09 12:20:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.24 Mbit/s

95th percentile per-packet one-way delay: 110.181 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 56.41 Mbit/s

95th percentile per-packet one-way delay: 108.252 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 34.62 Mbit/s

95th percentile per-packet one-way delay: 111.180 ms

Loss rate: 0.83%

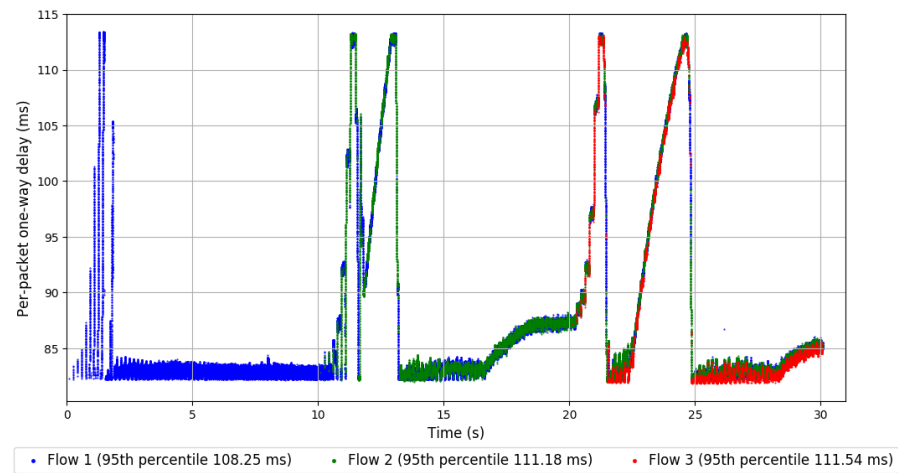
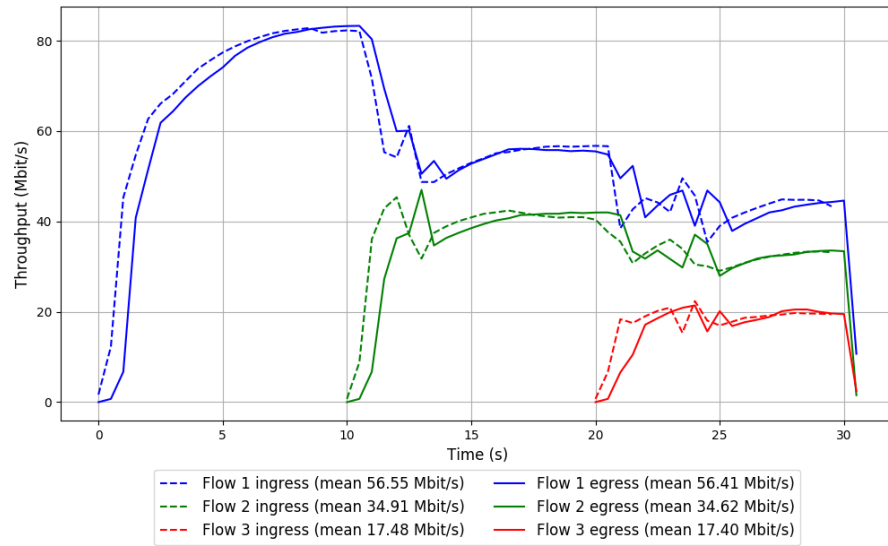
-- Flow 3:

Average throughput: 17.40 Mbit/s

95th percentile per-packet one-way delay: 111.541 ms

Loss rate: 0.78%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-08-09 11:04:35

End at: 2018-08-09 11:05:05

Local clock offset: -2.308 ms

Remote clock offset: 7.338 ms

Below is generated by plot.py at 2018-08-09 12:20:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.60 Mbit/s

95th percentile per-packet one-way delay: 109.169 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 50.43 Mbit/s

95th percentile per-packet one-way delay: 105.540 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 20.86 Mbit/s

95th percentile per-packet one-way delay: 112.911 ms

Loss rate: 1.38%

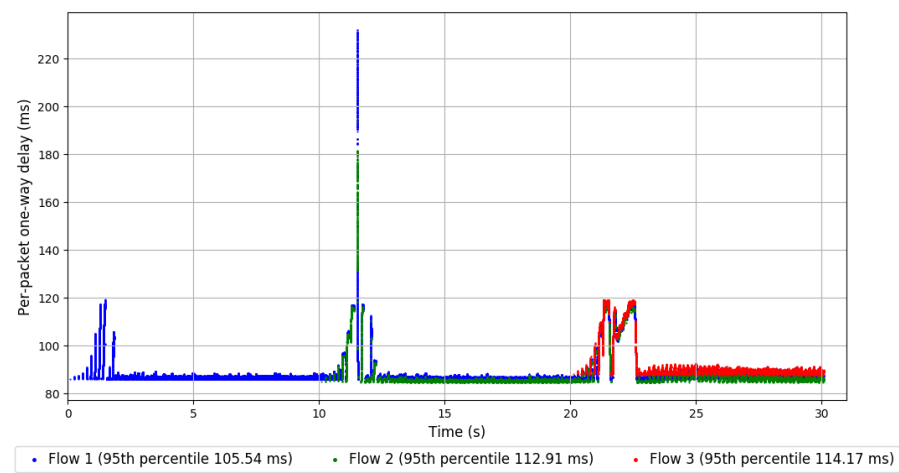
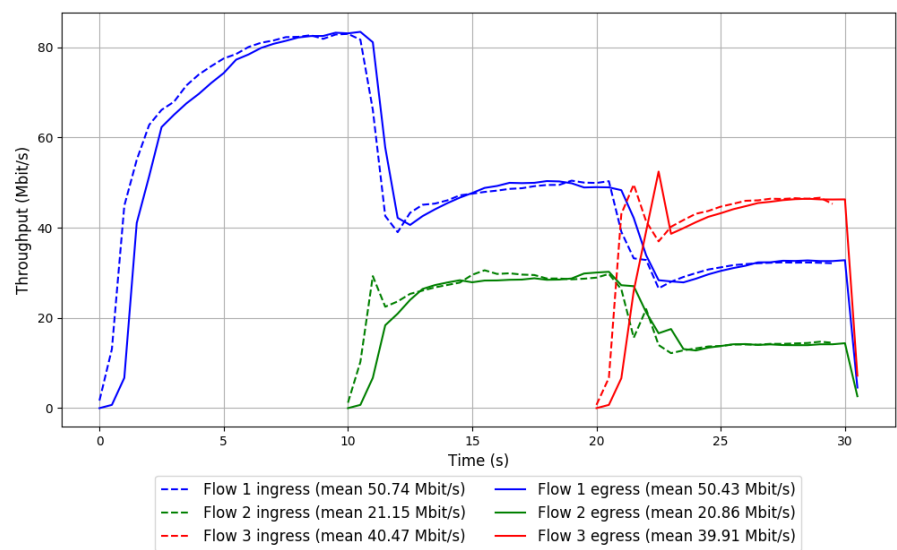
-- Flow 3:

Average throughput: 39.91 Mbit/s

95th percentile per-packet one-way delay: 114.166 ms

Loss rate: 1.41%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-08-09 11:25:49

End at: 2018-08-09 11:26:19

Local clock offset: -2.251 ms

Remote clock offset: 5.569 ms

Below is generated by plot.py at 2018-08-09 12:20:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.26 Mbit/s

95th percentile per-packet one-way delay: 114.062 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 46.02 Mbit/s

95th percentile per-packet one-way delay: 113.330 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 38.02 Mbit/s

95th percentile per-packet one-way delay: 115.261 ms

Loss rate: 0.57%

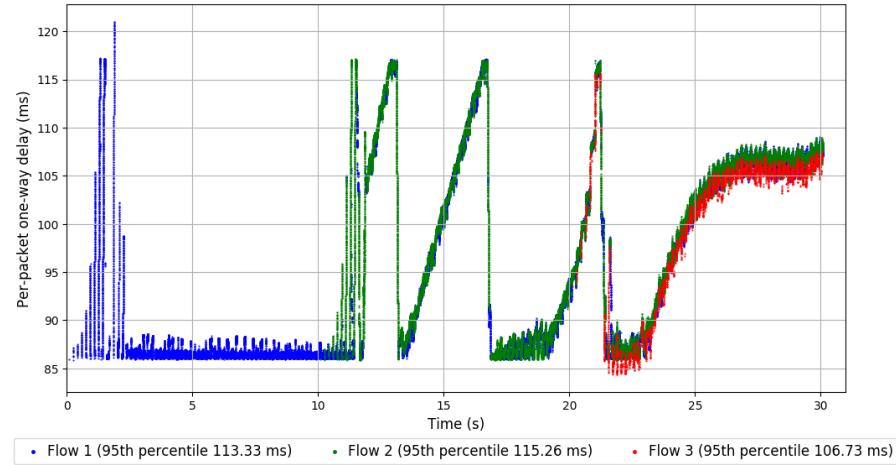
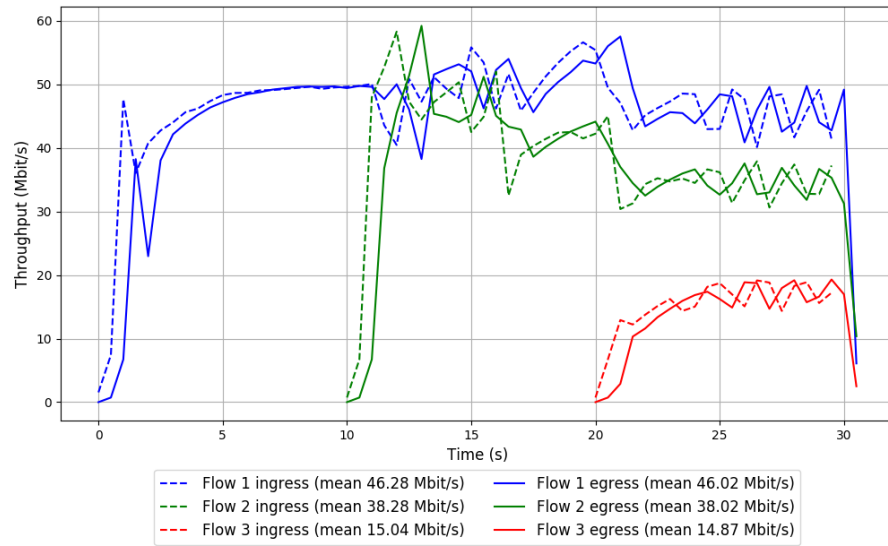
-- Flow 3:

Average throughput: 14.87 Mbit/s

95th percentile per-packet one-way delay: 106.733 ms

Loss rate: 0.97%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-08-09 11:47:06

End at: 2018-08-09 11:47:36

Local clock offset: -2.219 ms

Remote clock offset: 6.424 ms

Below is generated by plot.py at 2018-08-09 12:20:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.74 Mbit/s

95th percentile per-packet one-way delay: 112.192 ms

Loss rate: 1.08%

-- Flow 1:

Average throughput: 52.09 Mbit/s

95th percentile per-packet one-way delay: 109.578 ms

Loss rate: 0.68%

-- Flow 2:

Average throughput: 32.00 Mbit/s

95th percentile per-packet one-way delay: 115.948 ms

Loss rate: 1.76%

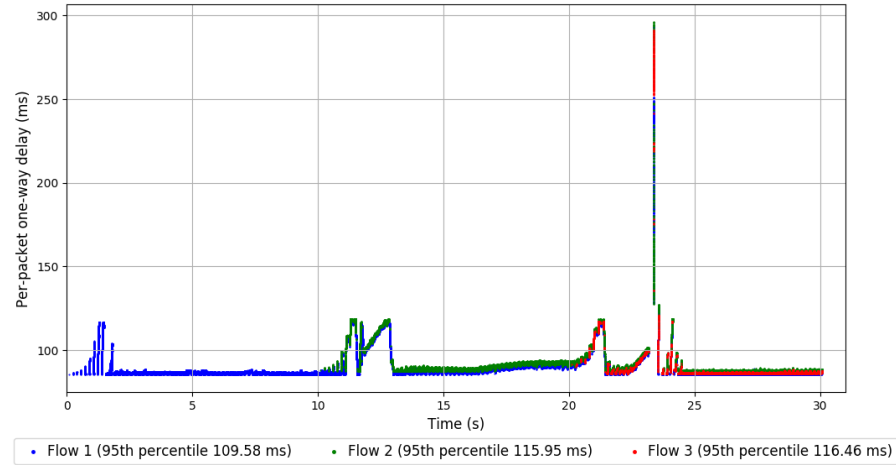
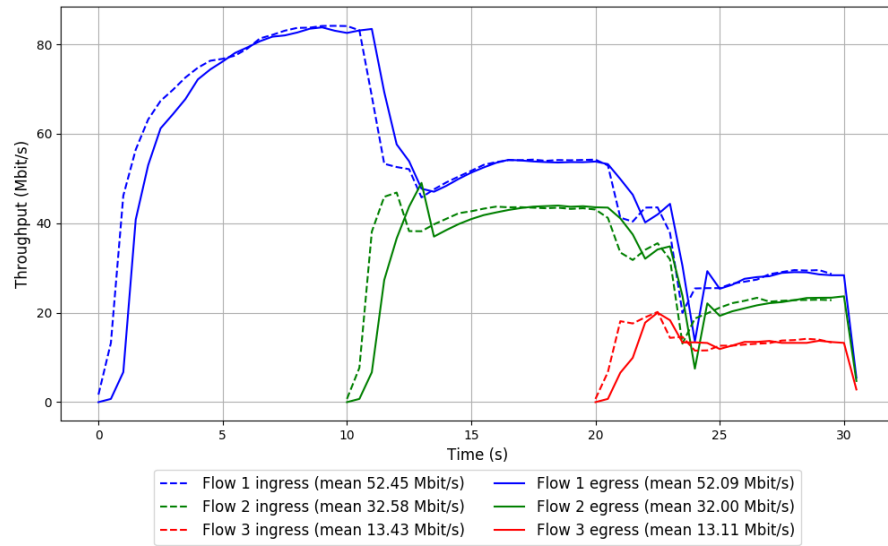
-- Flow 3:

Average throughput: 13.11 Mbit/s

95th percentile per-packet one-way delay: 116.457 ms

Loss rate: 2.40%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-08-09 12:08:19

End at: 2018-08-09 12:08:49

Local clock offset: -2.308 ms

Remote clock offset: 1.514 ms

Below is generated by plot.py at 2018-08-09 12:20:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.63 Mbit/s

95th percentile per-packet one-way delay: 109.333 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 55.19 Mbit/s

95th percentile per-packet one-way delay: 107.855 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 35.42 Mbit/s

95th percentile per-packet one-way delay: 109.886 ms

Loss rate: 0.71%

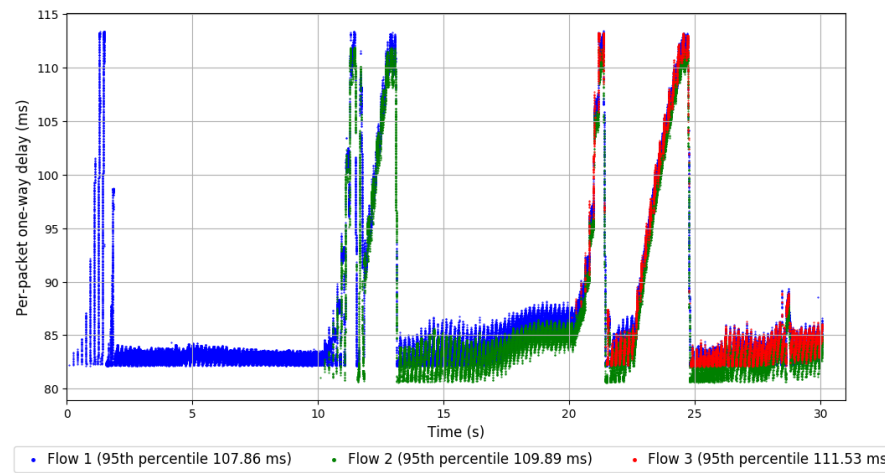
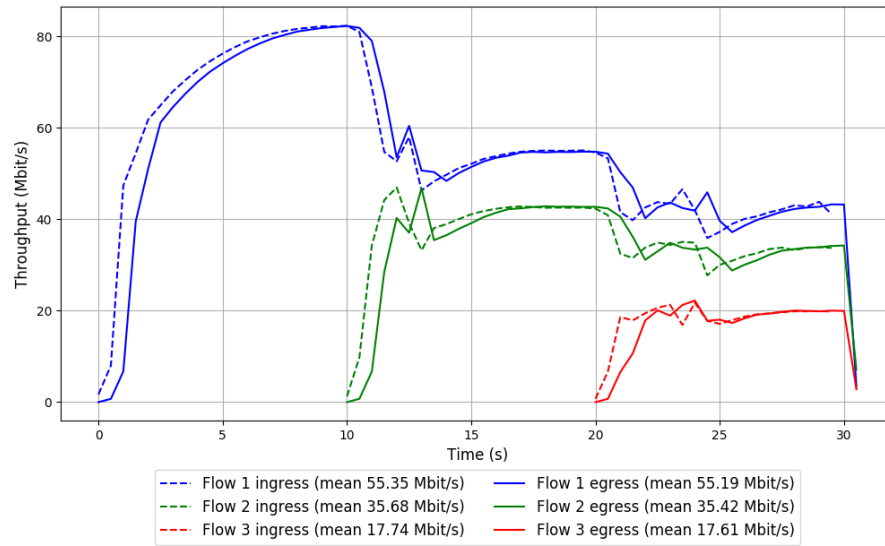
-- Flow 3:

Average throughput: 17.61 Mbit/s

95th percentile per-packet one-way delay: 111.527 ms

Loss rate: 0.73%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-08-09 08:42:20

End at: 2018-08-09 08:42:50

Local clock offset: -8.221 ms

Remote clock offset: 2.443 ms

Below is generated by plot.py at 2018-08-09 12:21:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.91 Mbit/s

95th percentile per-packet one-way delay: 110.354 ms

Loss rate: 16.90%

-- Flow 1:

Average throughput: 58.65 Mbit/s

95th percentile per-packet one-way delay: 110.148 ms

Loss rate: 16.85%

-- Flow 2:

Average throughput: 44.45 Mbit/s

95th percentile per-packet one-way delay: 110.197 ms

Loss rate: 17.26%

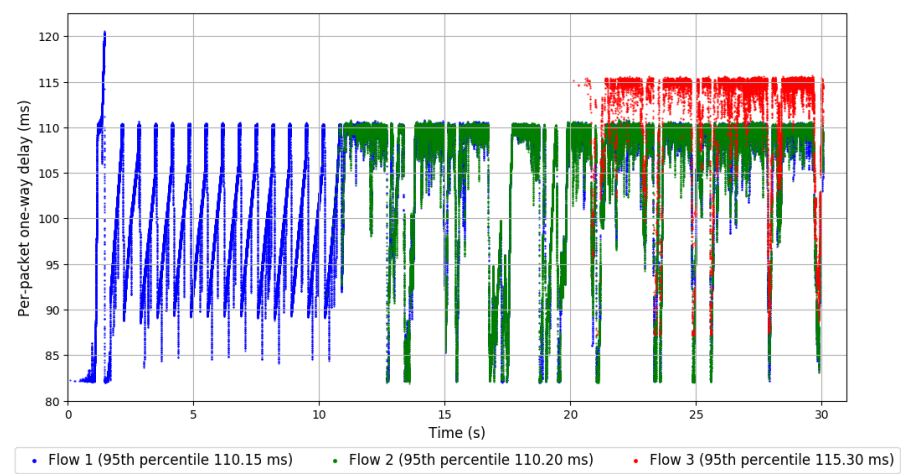
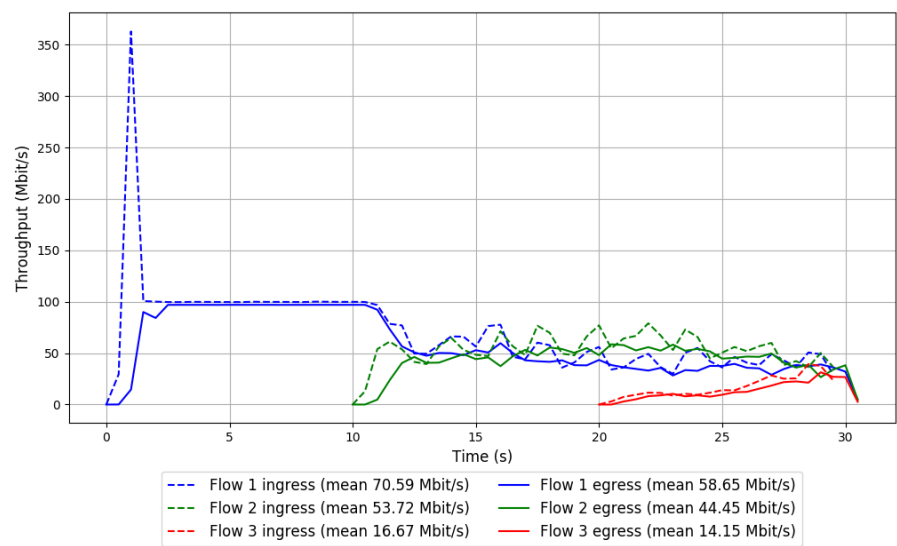
-- Flow 3:

Average throughput: 14.15 Mbit/s

95th percentile per-packet one-way delay: 115.297 ms

Loss rate: 15.16%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-08-09 09:03:30

End at: 2018-08-09 09:04:00

Local clock offset: -8.239 ms

Remote clock offset: 1.254 ms

Below is generated by plot.py at 2018-08-09 12:21:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.00 Mbit/s

95th percentile per-packet one-way delay: 115.229 ms

Loss rate: 20.30%

-- Flow 1:

Average throughput: 58.71 Mbit/s

95th percentile per-packet one-way delay: 113.831 ms

Loss rate: 19.00%

-- Flow 2:

Average throughput: 36.63 Mbit/s

95th percentile per-packet one-way delay: 115.429 ms

Loss rate: 20.61%

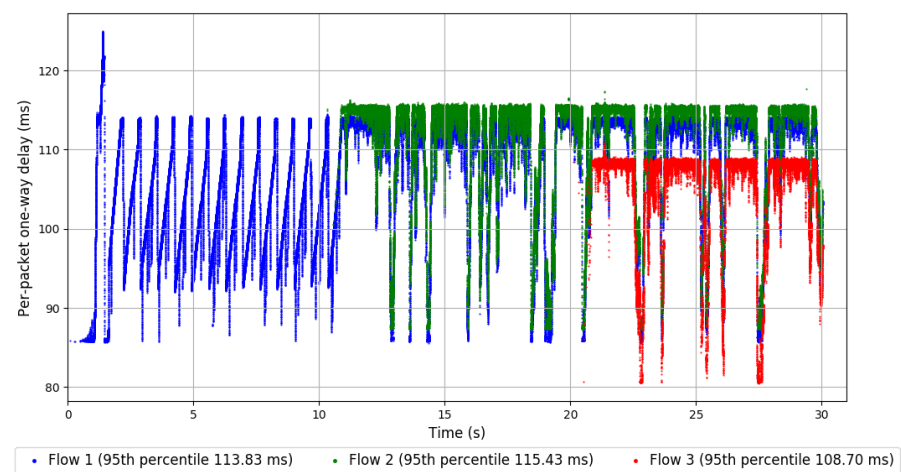
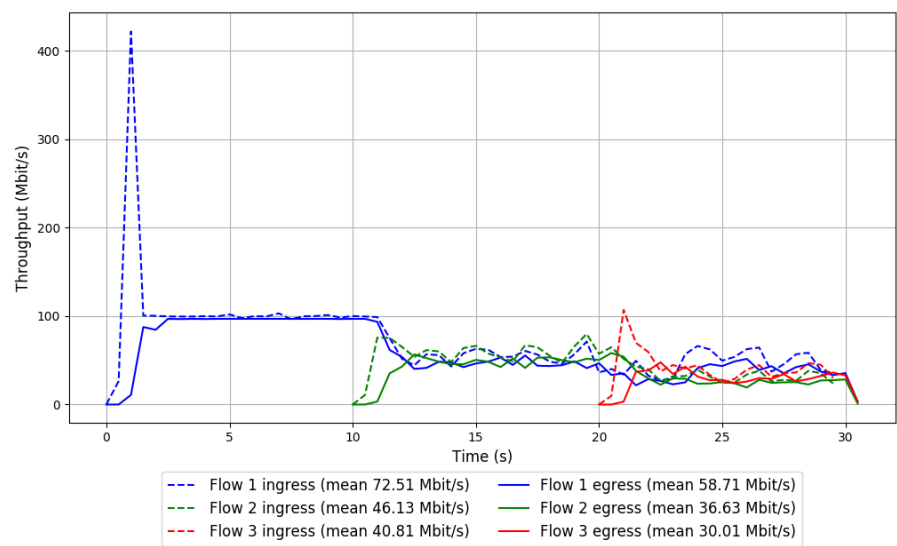
-- Flow 3:

Average throughput: 30.01 Mbit/s

95th percentile per-packet one-way delay: 108.701 ms

Loss rate: 26.54%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-08-09 09:24:45

End at: 2018-08-09 09:25:15

Local clock offset: -4.985 ms

Remote clock offset: 3.283 ms

Below is generated by plot.py at 2018-08-09 12:21:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.32 Mbit/s

95th percentile per-packet one-way delay: 117.966 ms

Loss rate: 20.29%

-- Flow 1:

Average throughput: 58.59 Mbit/s

95th percentile per-packet one-way delay: 111.418 ms

Loss rate: 17.94%

-- Flow 2:

Average throughput: 43.54 Mbit/s

95th percentile per-packet one-way delay: 118.164 ms

Loss rate: 25.25%

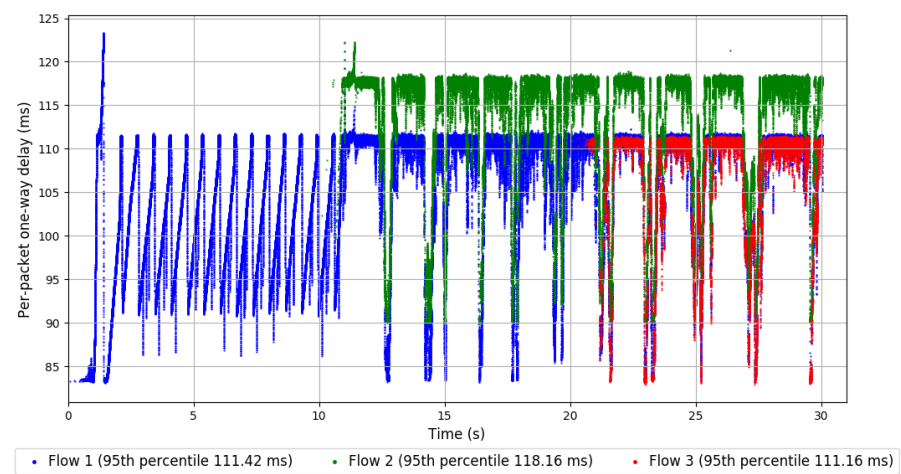
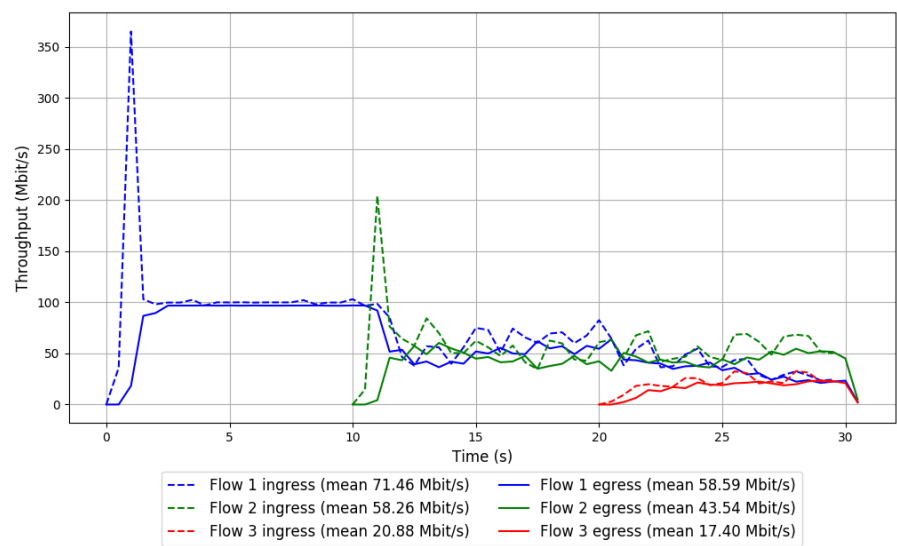
-- Flow 3:

Average throughput: 17.40 Mbit/s

95th percentile per-packet one-way delay: 111.160 ms

Loss rate: 16.68%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-08-09 09:46:02

End at: 2018-08-09 09:46:32

Local clock offset: -2.566 ms

Remote clock offset: 3.06 ms

Below is generated by plot.py at 2018-08-09 12:21:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.15 Mbit/s

95th percentile per-packet one-way delay: 116.379 ms

Loss rate: 18.15%

-- Flow 1:

Average throughput: 59.62 Mbit/s

95th percentile per-packet one-way delay: 111.639 ms

Loss rate: 16.62%

-- Flow 2:

Average throughput: 37.21 Mbit/s

95th percentile per-packet one-way delay: 116.574 ms

Loss rate: 20.18%

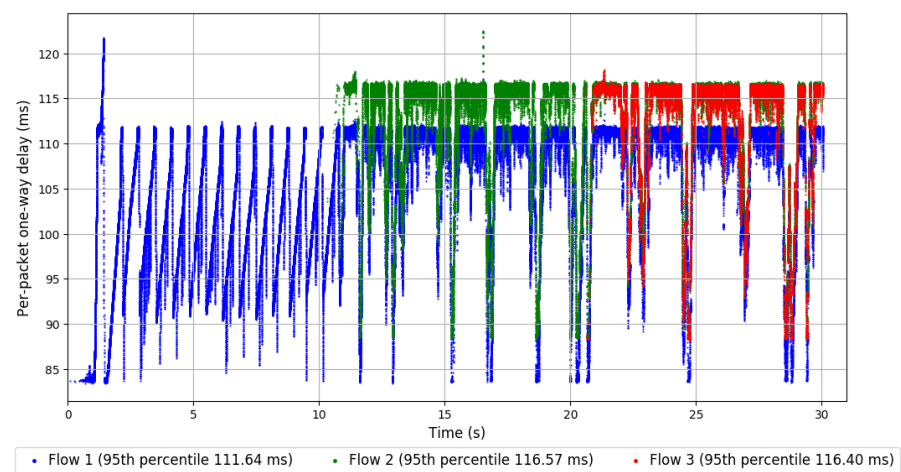
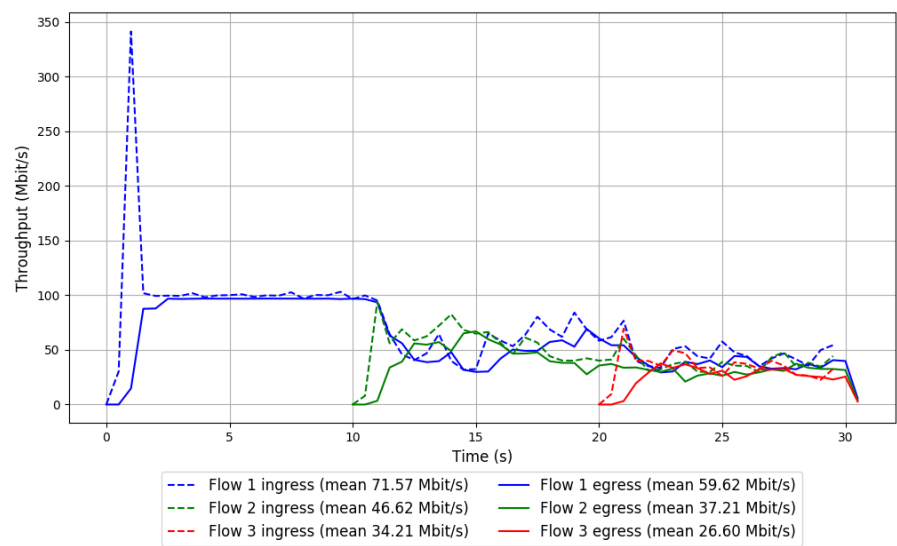
-- Flow 3:

Average throughput: 26.60 Mbit/s

95th percentile per-packet one-way delay: 116.404 ms

Loss rate: 22.25%

Run 4: Report of FillP — Data Link

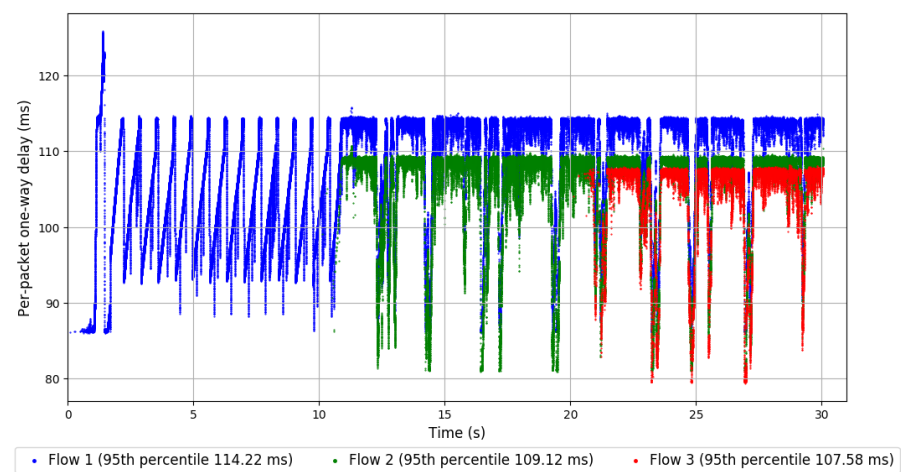
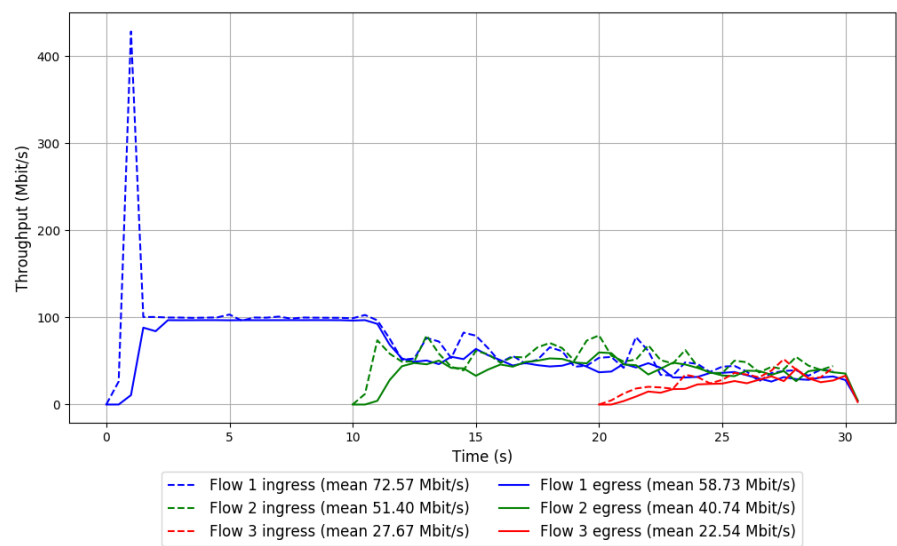


Run 5: Statistics of FillP

Start at: 2018-08-09 10:07:11
End at: 2018-08-09 10:07:41
Local clock offset: -2.819 ms
Remote clock offset: -0.806 ms

Below is generated by plot.py at 2018-08-09 12:21:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.31 Mbit/s
95th percentile per-packet one-way delay: 114.114 ms
Loss rate: 19.47%
-- Flow 1:
Average throughput: 58.73 Mbit/s
95th percentile per-packet one-way delay: 114.217 ms
Loss rate: 19.01%
-- Flow 2:
Average throughput: 40.74 Mbit/s
95th percentile per-packet one-way delay: 109.116 ms
Loss rate: 20.70%
-- Flow 3:
Average throughput: 22.54 Mbit/s
95th percentile per-packet one-way delay: 107.577 ms
Loss rate: 18.51%

Run 5: Report of FillP — Data Link

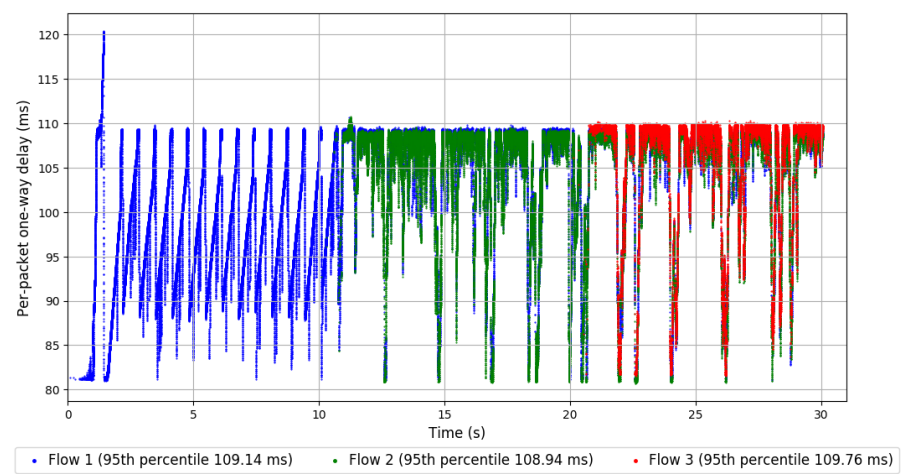
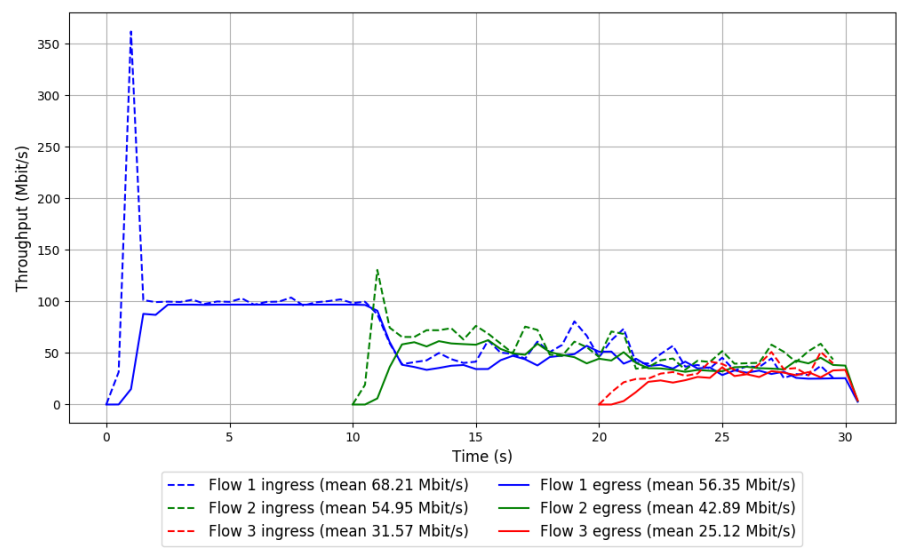


Run 6: Statistics of FillP

Start at: 2018-08-09 10:28:22
End at: 2018-08-09 10:28:52
Local clock offset: -2.775 ms
Remote clock offset: -0.738 ms

Below is generated by plot.py at 2018-08-09 12:21:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.22 Mbit/s
95th percentile per-packet one-way delay: 109.267 ms
Loss rate: 19.05%
-- Flow 1:
Average throughput: 56.35 Mbit/s
95th percentile per-packet one-way delay: 109.140 ms
Loss rate: 17.31%
-- Flow 2:
Average throughput: 42.89 Mbit/s
95th percentile per-packet one-way delay: 108.938 ms
Loss rate: 21.89%
-- Flow 3:
Average throughput: 25.12 Mbit/s
95th percentile per-packet one-way delay: 109.756 ms
Loss rate: 20.39%

Run 6: Report of FillP — Data Link

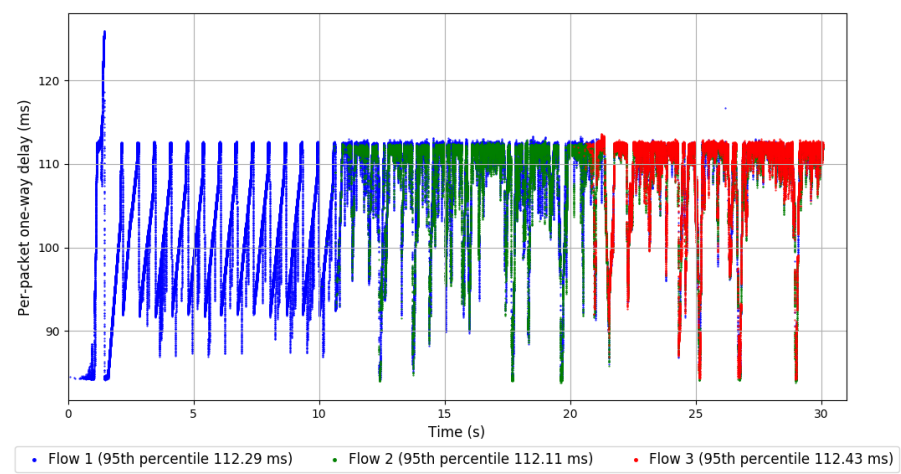
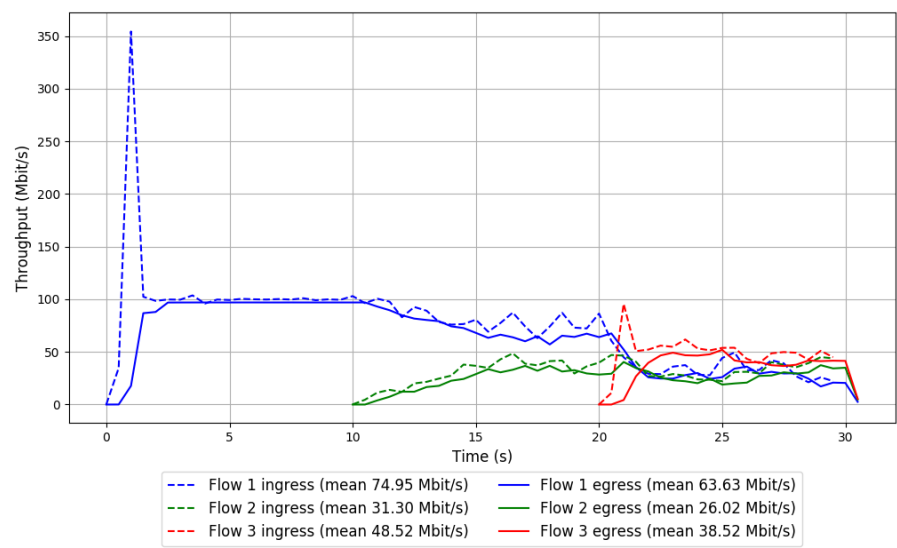


Run 7: Statistics of FillP

Start at: 2018-08-09 10:49:36
End at: 2018-08-09 10:50:06
Local clock offset: -2.501 ms
Remote clock offset: 6.495 ms

Below is generated by plot.py at 2018-08-09 12:22:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.72 Mbit/s
95th percentile per-packet one-way delay: 112.301 ms
Loss rate: 16.16%
-- Flow 1:
Average throughput: 63.63 Mbit/s
95th percentile per-packet one-way delay: 112.293 ms
Loss rate: 15.03%
-- Flow 2:
Average throughput: 26.02 Mbit/s
95th percentile per-packet one-way delay: 112.110 ms
Loss rate: 16.80%
-- Flow 3:
Average throughput: 38.52 Mbit/s
95th percentile per-packet one-way delay: 112.427 ms
Loss rate: 20.60%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-08-09 11:10:47

End at: 2018-08-09 11:11:17

Local clock offset: -2.169 ms

Remote clock offset: 5.98 ms

Below is generated by plot.py at 2018-08-09 12:22:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.00 Mbit/s

95th percentile per-packet one-way delay: 113.528 ms

Loss rate: 17.23%

-- Flow 1:

Average throughput: 54.36 Mbit/s

95th percentile per-packet one-way delay: 112.925 ms

Loss rate: 16.69%

-- Flow 2:

Average throughput: 52.04 Mbit/s

95th percentile per-packet one-way delay: 113.517 ms

Loss rate: 18.21%

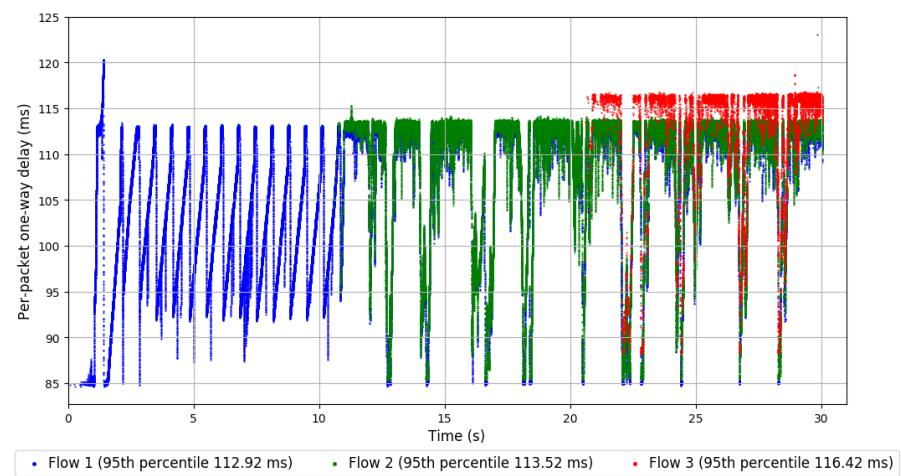
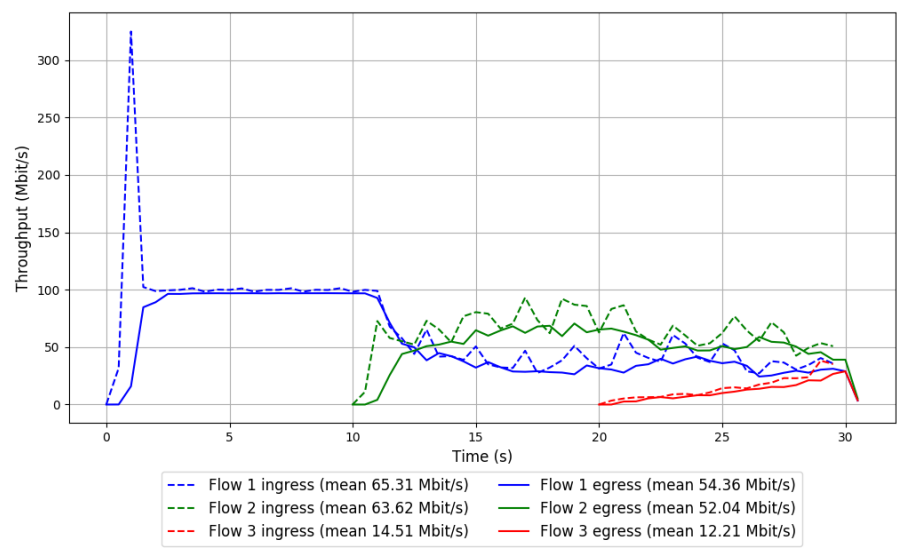
-- Flow 3:

Average throughput: 12.21 Mbit/s

95th percentile per-packet one-way delay: 116.423 ms

Loss rate: 15.79%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-08-09 11:32:05

End at: 2018-08-09 11:32:35

Local clock offset: -2.257 ms

Remote clock offset: 5.413 ms

Below is generated by plot.py at 2018-08-09 12:22:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.09 Mbit/s

95th percentile per-packet one-way delay: 113.181 ms

Loss rate: 17.74%

-- Flow 1:

Average throughput: 55.98 Mbit/s

95th percentile per-packet one-way delay: 112.262 ms

Loss rate: 16.71%

-- Flow 2:

Average throughput: 42.52 Mbit/s

95th percentile per-packet one-way delay: 112.237 ms

Loss rate: 18.31%

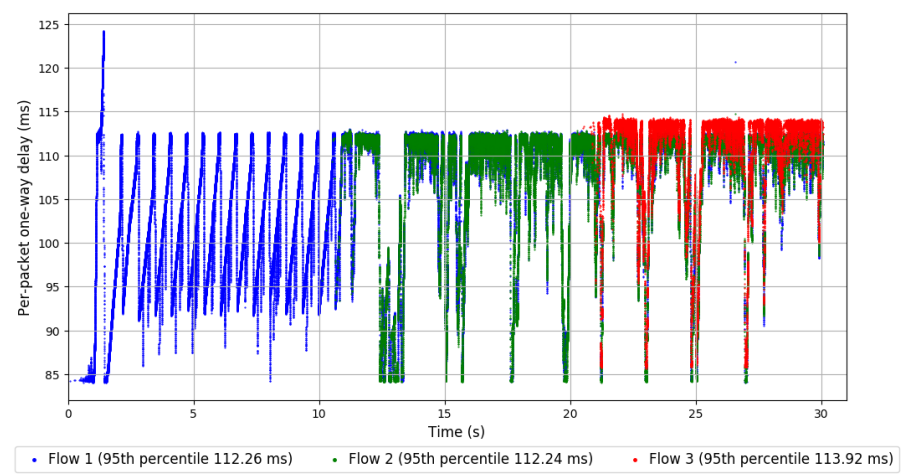
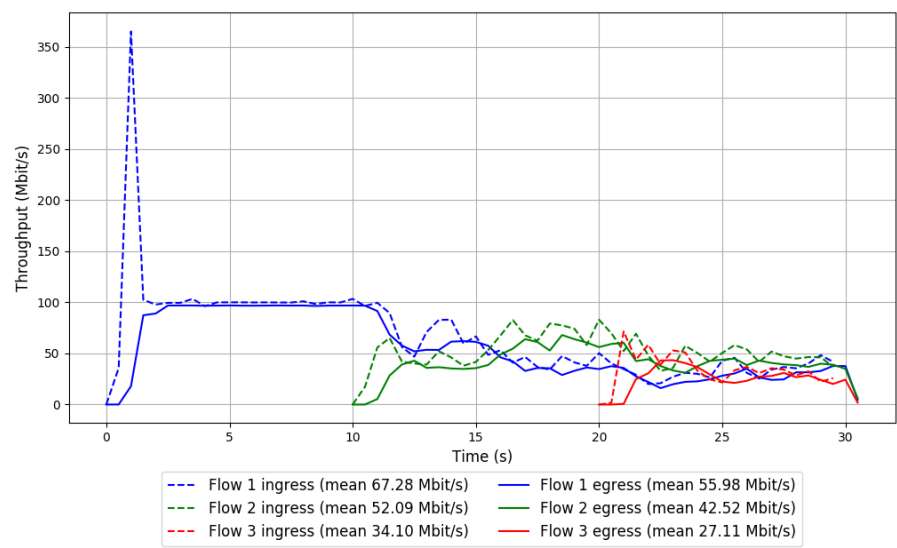
-- Flow 3:

Average throughput: 27.11 Mbit/s

95th percentile per-packet one-way delay: 113.918 ms

Loss rate: 22.12%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-08-09 11:53:19

End at: 2018-08-09 11:53:49

Local clock offset: -2.273 ms

Remote clock offset: 1.339 ms

Below is generated by plot.py at 2018-08-09 12:23:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.19 Mbit/s

95th percentile per-packet one-way delay: 111.749 ms

Loss rate: 18.72%

-- Flow 1:

Average throughput: 61.78 Mbit/s

95th percentile per-packet one-way delay: 111.823 ms

Loss rate: 17.89%

-- Flow 2:

Average throughput: 39.35 Mbit/s

95th percentile per-packet one-way delay: 110.104 ms

Loss rate: 21.13%

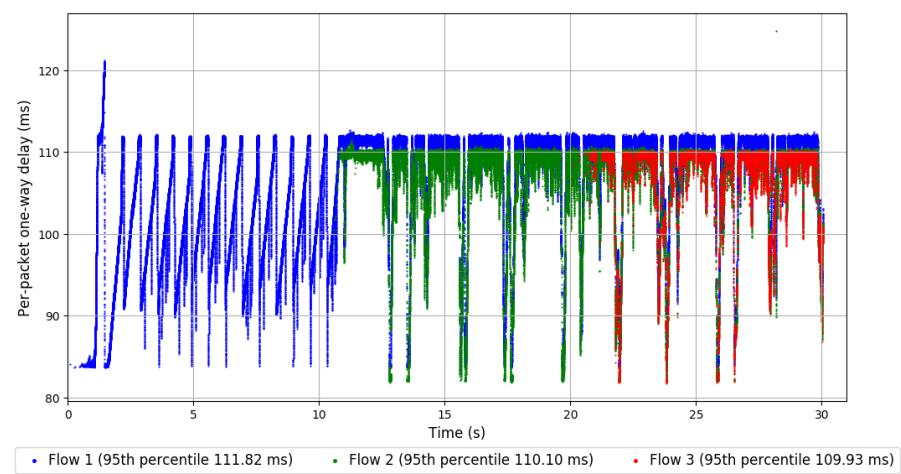
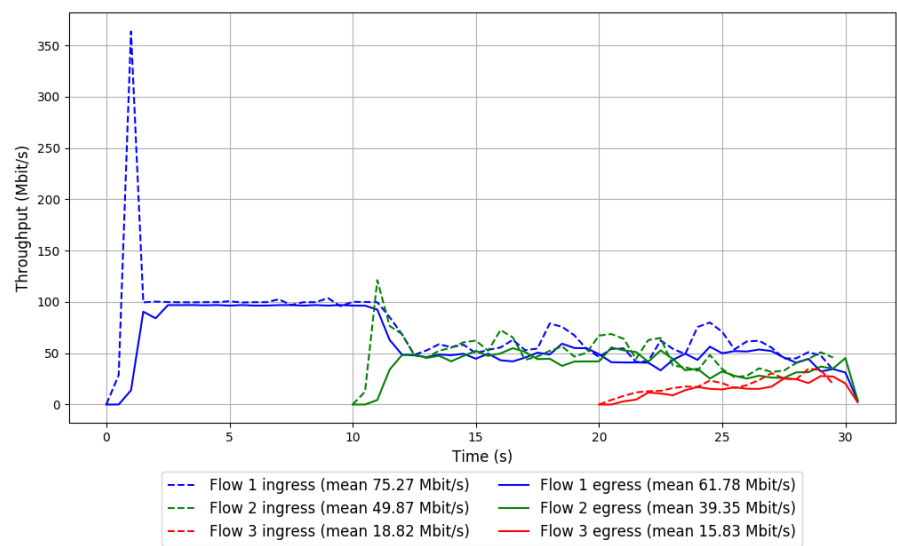
-- Flow 3:

Average throughput: 15.83 Mbit/s

95th percentile per-packet one-way delay: 109.933 ms

Loss rate: 15.97%

Run 10: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2018-08-09 08:44:54

End at: 2018-08-09 08:45:24

Local clock offset: -8.367 ms

Remote clock offset: 2.429 ms

Below is generated by plot.py at 2018-08-09 12:23:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.82 Mbit/s

95th percentile per-packet one-way delay: 110.133 ms

Loss rate: 20.59%

-- Flow 1:

Average throughput: 53.79 Mbit/s

95th percentile per-packet one-way delay: 110.169 ms

Loss rate: 14.68%

-- Flow 2:

Average throughput: 42.13 Mbit/s

95th percentile per-packet one-way delay: 108.441 ms

Loss rate: 26.19%

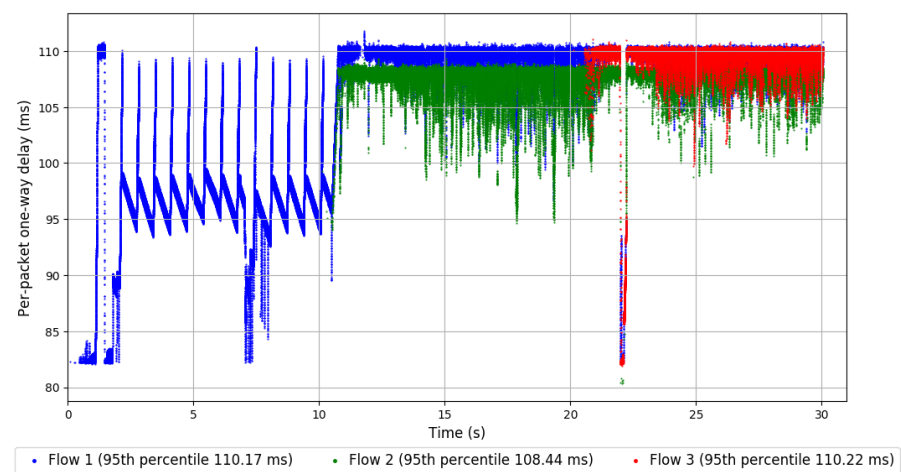
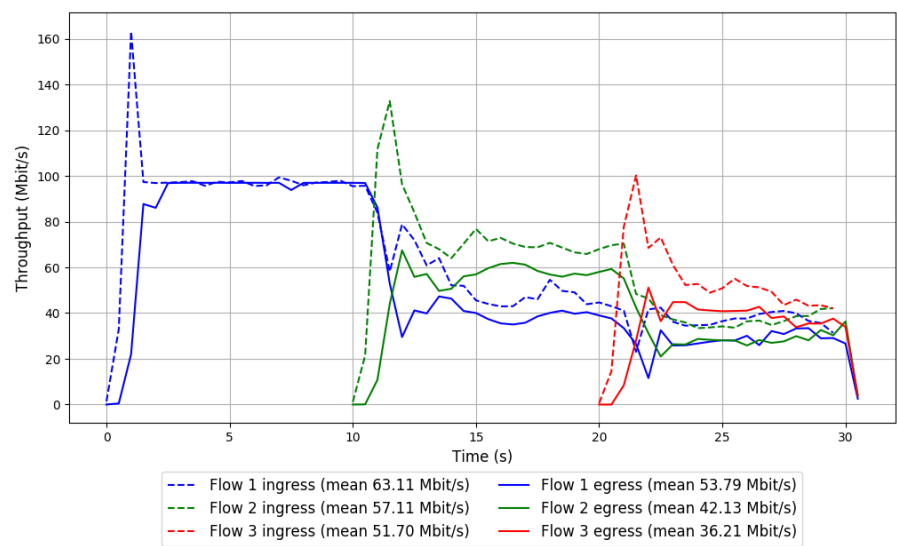
-- Flow 3:

Average throughput: 36.21 Mbit/s

95th percentile per-packet one-way delay: 110.218 ms

Loss rate: 29.97%

Run 1: Report of FillP-Sheep — Data Link

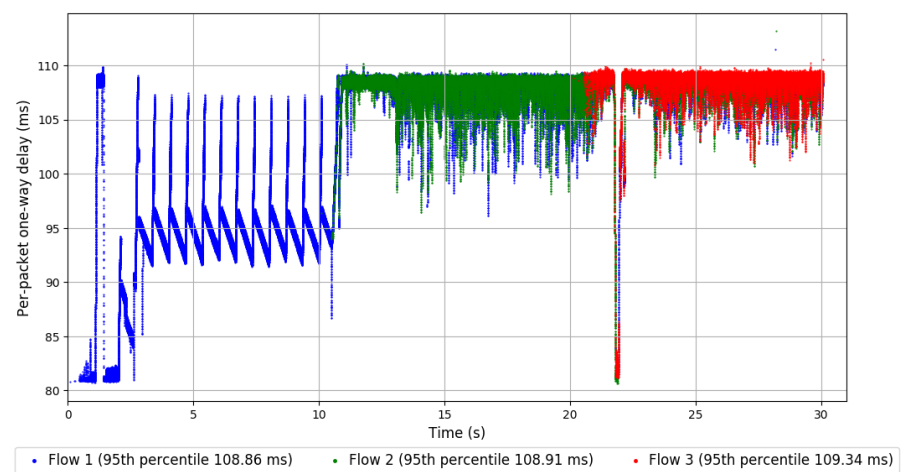
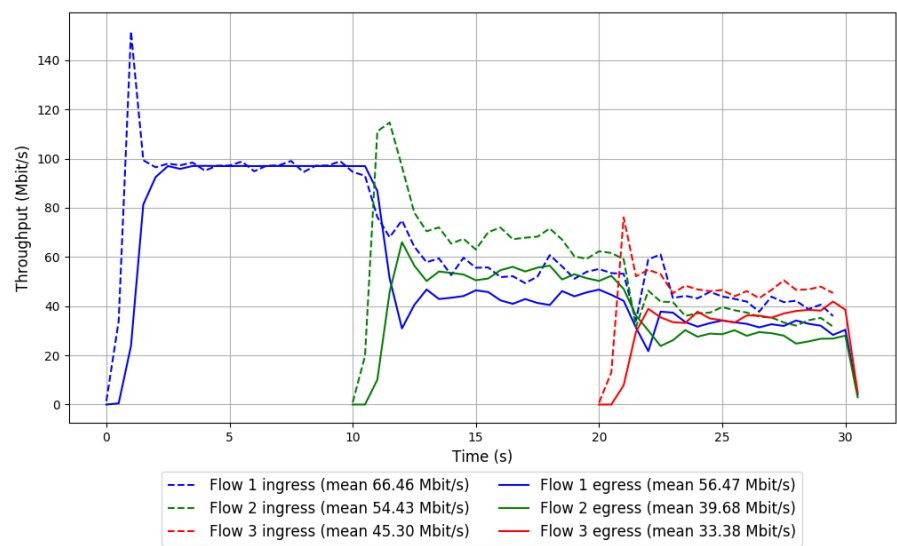


Run 2: Statistics of FillP-Sheep

Start at: 2018-08-09 09:06:05
End at: 2018-08-09 09:06:35
Local clock offset: -8.235 ms
Remote clock offset: -0.056 ms

Below is generated by plot.py at 2018-08-09 12:23:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.93 Mbit/s
95th percentile per-packet one-way delay: 109.004 ms
Loss rate: 20.12%
-- Flow 1:
Average throughput: 56.47 Mbit/s
95th percentile per-packet one-way delay: 108.863 ms
Loss rate: 14.95%
-- Flow 2:
Average throughput: 39.68 Mbit/s
95th percentile per-packet one-way delay: 108.909 ms
Loss rate: 27.05%
-- Flow 3:
Average throughput: 33.38 Mbit/s
95th percentile per-packet one-way delay: 109.338 ms
Loss rate: 26.30%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2018-08-09 09:27:19

End at: 2018-08-09 09:27:49

Local clock offset: -4.492 ms

Remote clock offset: 4.439 ms

Below is generated by plot.py at 2018-08-09 12:23:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.11 Mbit/s

95th percentile per-packet one-way delay: 119.022 ms

Loss rate: 18.71%

-- Flow 1:

Average throughput: 52.80 Mbit/s

95th percentile per-packet one-way delay: 114.196 ms

Loss rate: 13.99%

-- Flow 2:

Average throughput: 43.88 Mbit/s

95th percentile per-packet one-way delay: 114.006 ms

Loss rate: 23.91%

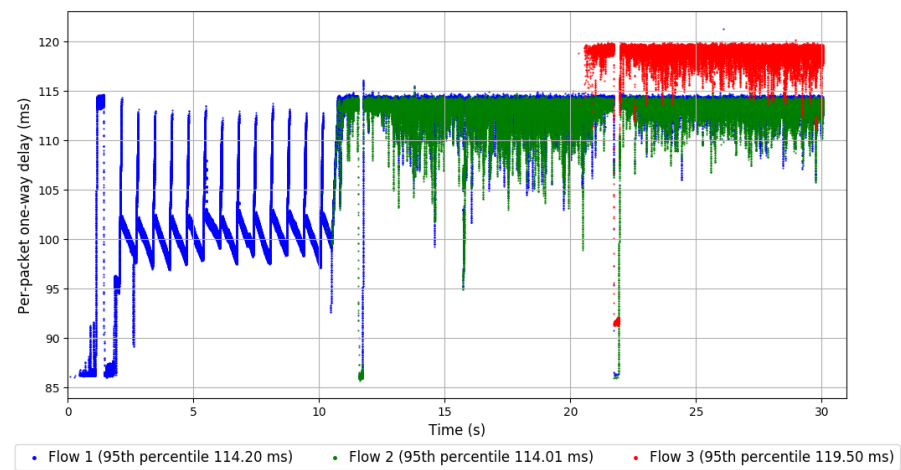
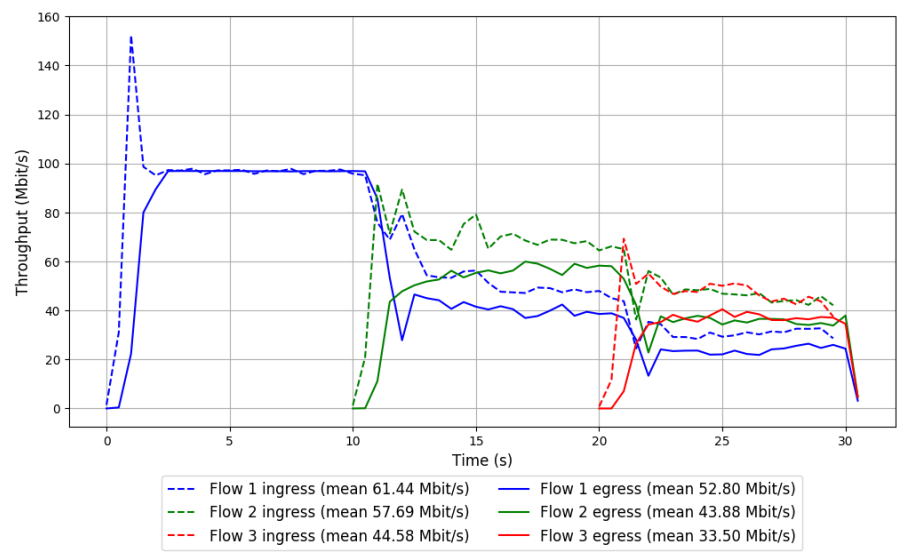
-- Flow 3:

Average throughput: 33.50 Mbit/s

95th percentile per-packet one-way delay: 119.500 ms

Loss rate: 24.82%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2018-08-09 09:48:36

End at: 2018-08-09 09:49:06

Local clock offset: -2.768 ms

Remote clock offset: 0.358 ms

Below is generated by plot.py at 2018-08-09 12:23:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.69 Mbit/s

95th percentile per-packet one-way delay: 108.520 ms

Loss rate: 20.14%

-- Flow 1:

Average throughput: 55.53 Mbit/s

95th percentile per-packet one-way delay: 108.565 ms

Loss rate: 14.69%

-- Flow 2:

Average throughput: 40.24 Mbit/s

95th percentile per-packet one-way delay: 108.477 ms

Loss rate: 23.50%

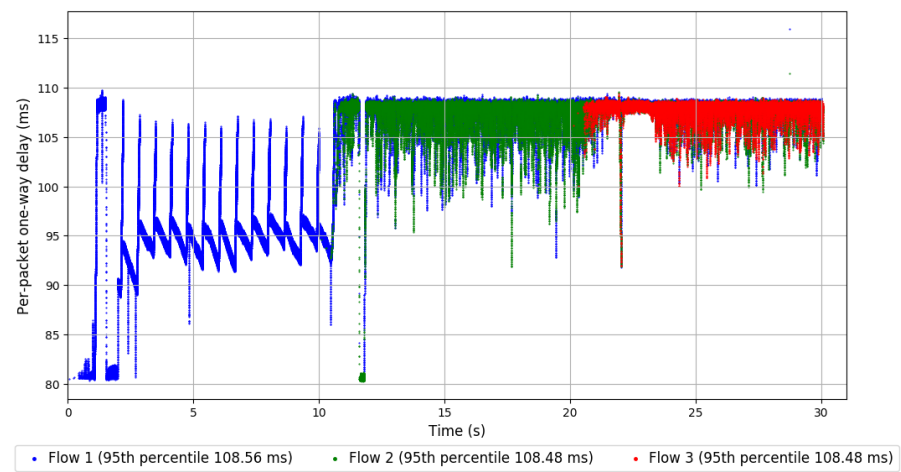
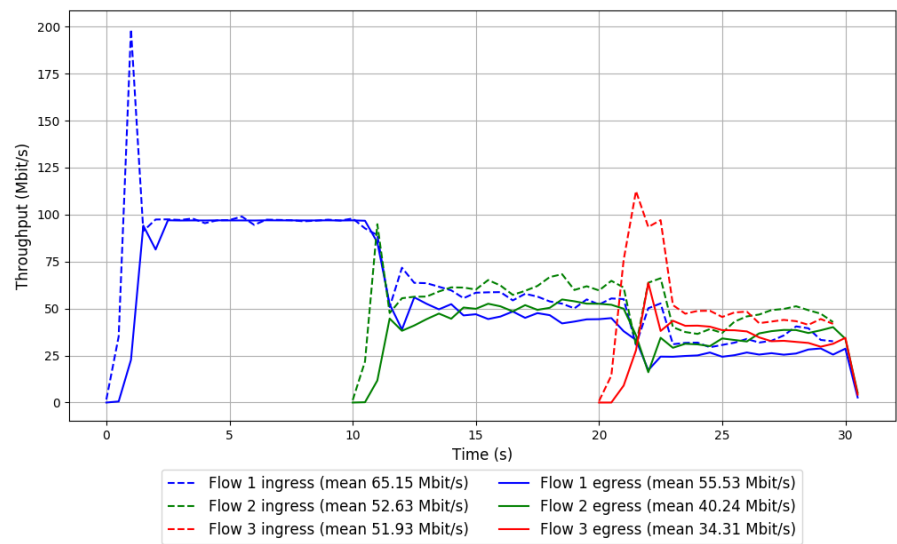
-- Flow 3:

Average throughput: 34.31 Mbit/s

95th percentile per-packet one-way delay: 108.484 ms

Loss rate: 33.91%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2018-08-09 10:09:45

End at: 2018-08-09 10:10:15

Local clock offset: -2.746 ms

Remote clock offset: 4.121 ms

Below is generated by plot.py at 2018-08-09 12:23:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.70 Mbit/s

95th percentile per-packet one-way delay: 113.960 ms

Loss rate: 20.90%

-- Flow 1:

Average throughput: 55.45 Mbit/s

95th percentile per-packet one-way delay: 112.169 ms

Loss rate: 14.02%

-- Flow 2:

Average throughput: 39.45 Mbit/s

95th percentile per-packet one-way delay: 114.034 ms

Loss rate: 25.37%

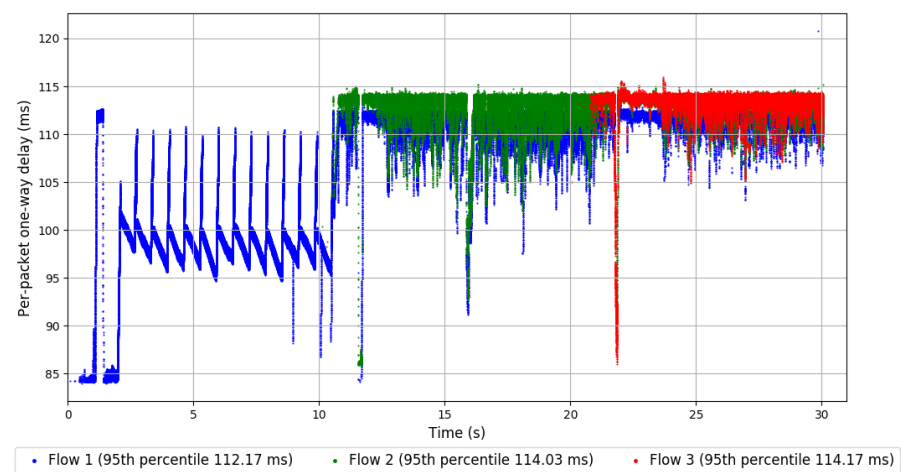
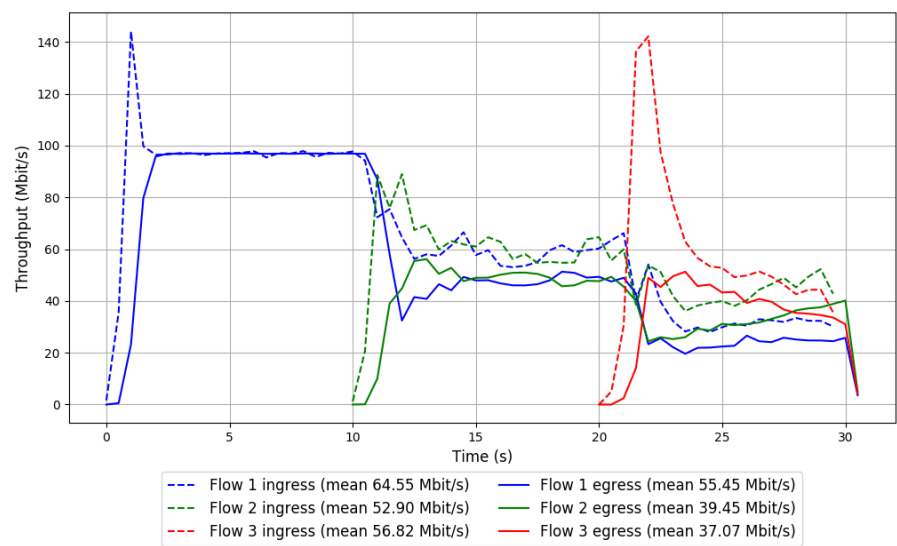
-- Flow 3:

Average throughput: 37.07 Mbit/s

95th percentile per-packet one-way delay: 114.167 ms

Loss rate: 36.09%

Run 5: Report of FillP-Sheep — Data Link



Run 6: Statistics of FillP-Sheep

Start at: 2018-08-09 10:30:57

End at: 2018-08-09 10:31:27

Local clock offset: -2.742 ms

Remote clock offset: 3.979 ms

Below is generated by plot.py at 2018-08-09 12:23:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.04 Mbit/s

95th percentile per-packet one-way delay: 115.520 ms

Loss rate: 22.71%

-- Flow 1:

Average throughput: 53.06 Mbit/s

95th percentile per-packet one-way delay: 115.608 ms

Loss rate: 16.62%

-- Flow 2:

Average throughput: 45.94 Mbit/s

95th percentile per-packet one-way delay: 112.434 ms

Loss rate: 30.63%

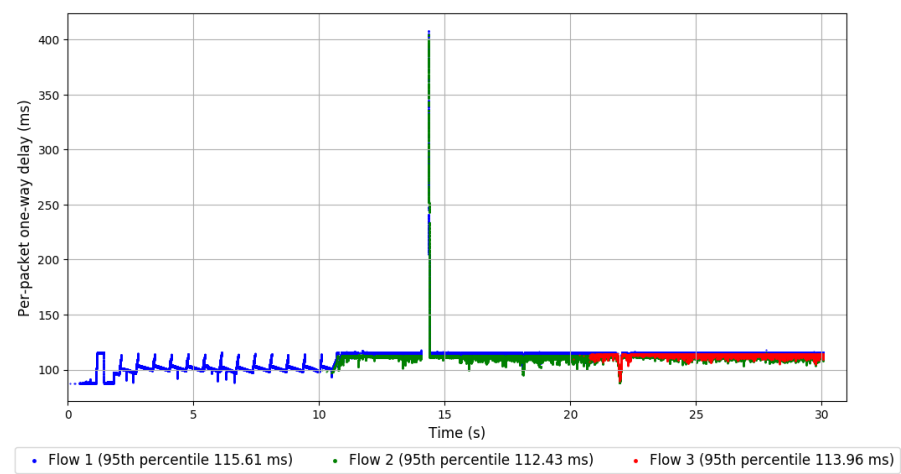
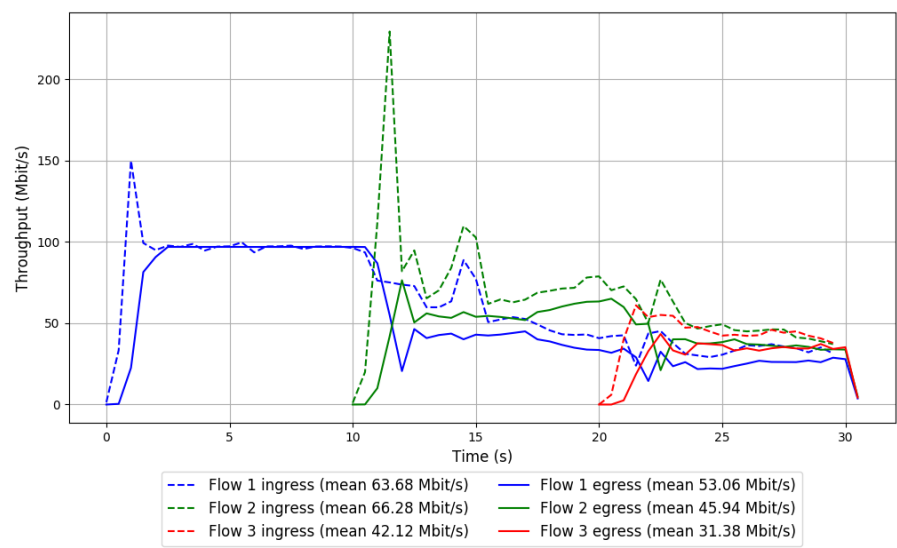
-- Flow 3:

Average throughput: 31.38 Mbit/s

95th percentile per-packet one-way delay: 113.956 ms

Loss rate: 25.48%

Run 6: Report of FillP-Sheep — Data Link

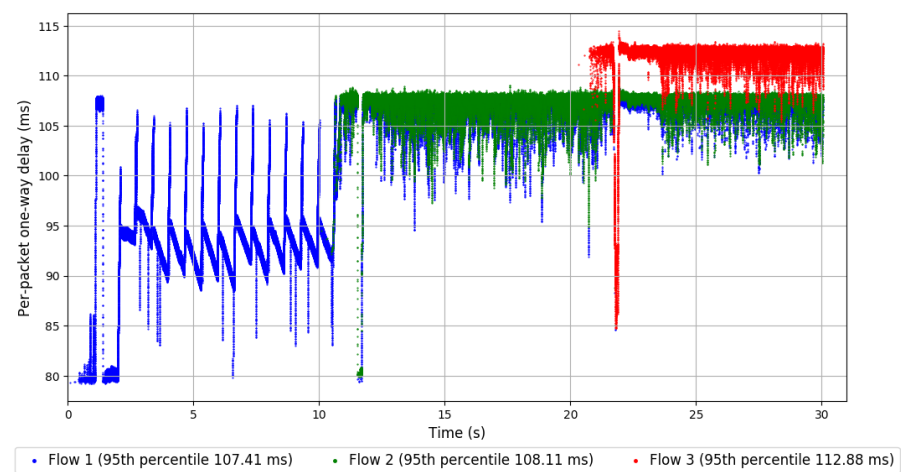
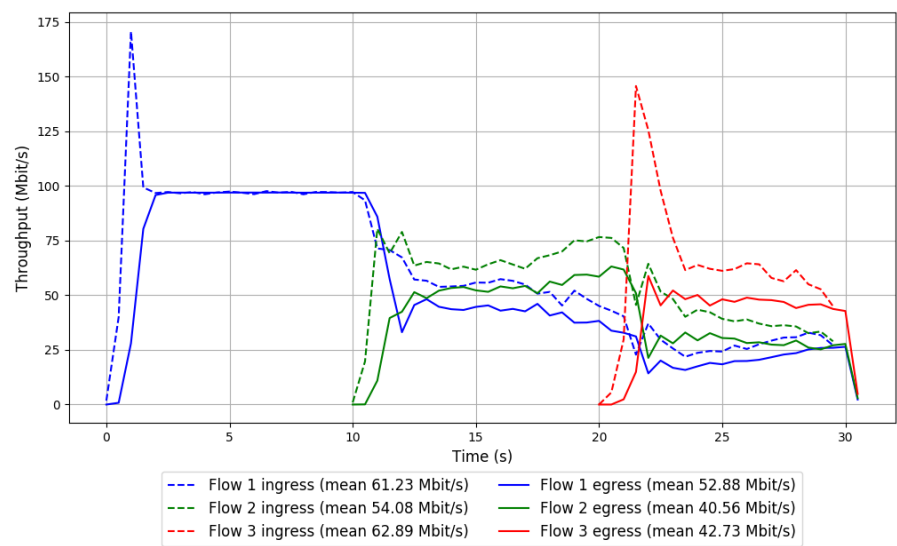


Run 7: Statistics of FillP-Sheep

Start at: 2018-08-09 10:52:10
End at: 2018-08-09 10:52:40
Local clock offset: -2.468 ms
Remote clock offset: 1.812 ms

Below is generated by plot.py at 2018-08-09 12:24:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.72 Mbit/s
95th percentile per-packet one-way delay: 112.531 ms
Loss rate: 20.55%
-- Flow 1:
Average throughput: 52.88 Mbit/s
95th percentile per-packet one-way delay: 107.410 ms
Loss rate: 13.56%
-- Flow 2:
Average throughput: 40.56 Mbit/s
95th percentile per-packet one-way delay: 108.110 ms
Loss rate: 24.96%
-- Flow 3:
Average throughput: 42.73 Mbit/s
95th percentile per-packet one-way delay: 112.882 ms
Loss rate: 33.44%

Run 7: Report of FillP-Sheep — Data Link



Run 8: Statistics of FillP-Sheep

Start at: 2018-08-09 11:13:22

End at: 2018-08-09 11:13:52

Local clock offset: -2.121 ms

Remote clock offset: 5.567 ms

Below is generated by plot.py at 2018-08-09 12:24:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.50 Mbit/s

95th percentile per-packet one-way delay: 115.817 ms

Loss rate: 19.63%

-- Flow 1:

Average throughput: 54.44 Mbit/s

95th percentile per-packet one-way delay: 113.021 ms

Loss rate: 15.14%

-- Flow 2:

Average throughput: 45.64 Mbit/s

95th percentile per-packet one-way delay: 113.017 ms

Loss rate: 24.47%

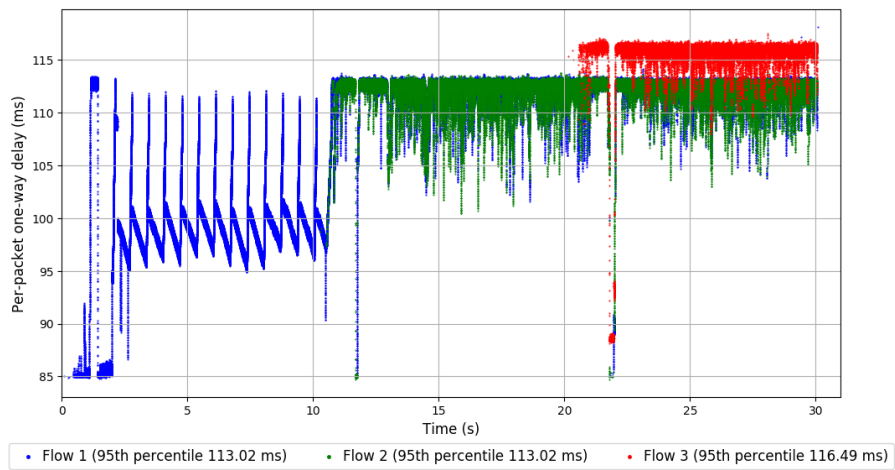
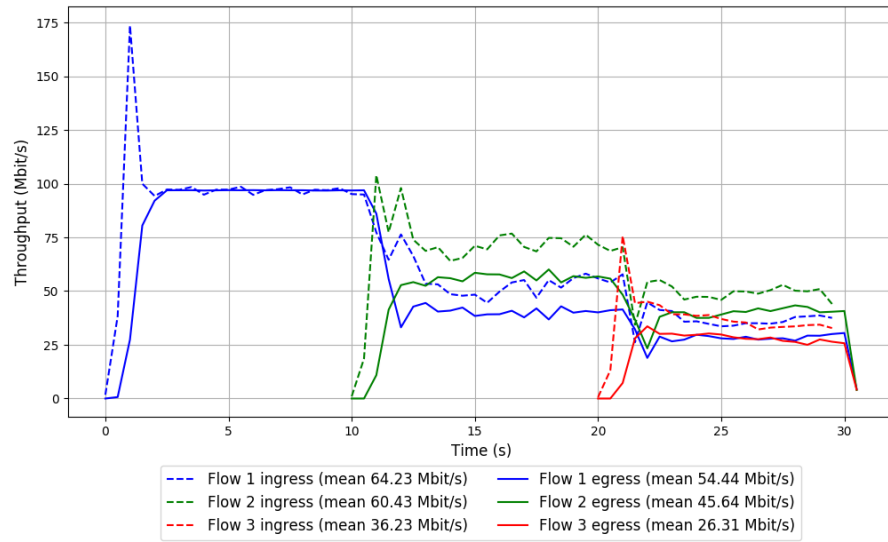
-- Flow 3:

Average throughput: 26.31 Mbit/s

95th percentile per-packet one-way delay: 116.488 ms

Loss rate: 27.40%

Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

Start at: 2018-08-09 11:34:40

End at: 2018-08-09 11:35:10

Local clock offset: -2.229 ms

Remote clock offset: 1.68 ms

Below is generated by plot.py at 2018-08-09 12:24:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.36 Mbit/s

95th percentile per-packet one-way delay: 110.293 ms

Loss rate: 18.09%

-- Flow 1:

Average throughput: 56.99 Mbit/s

95th percentile per-packet one-way delay: 110.375 ms

Loss rate: 13.40%

-- Flow 2:

Average throughput: 39.24 Mbit/s

95th percentile per-packet one-way delay: 110.225 ms

Loss rate: 23.17%

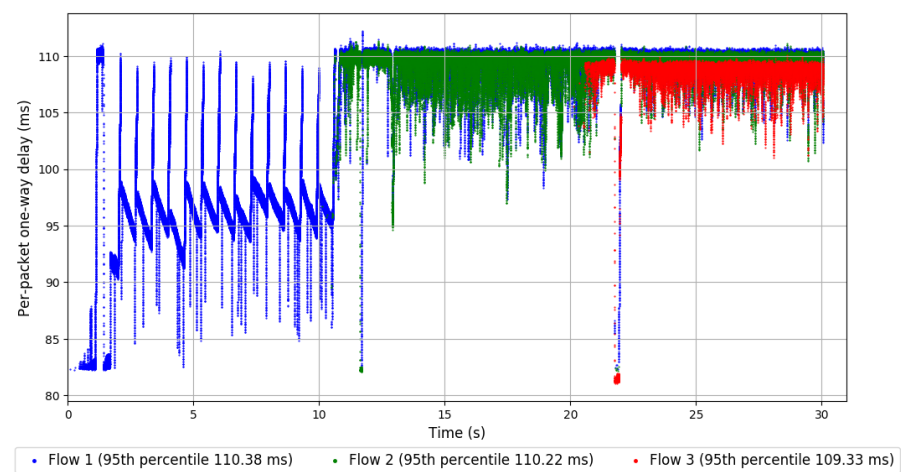
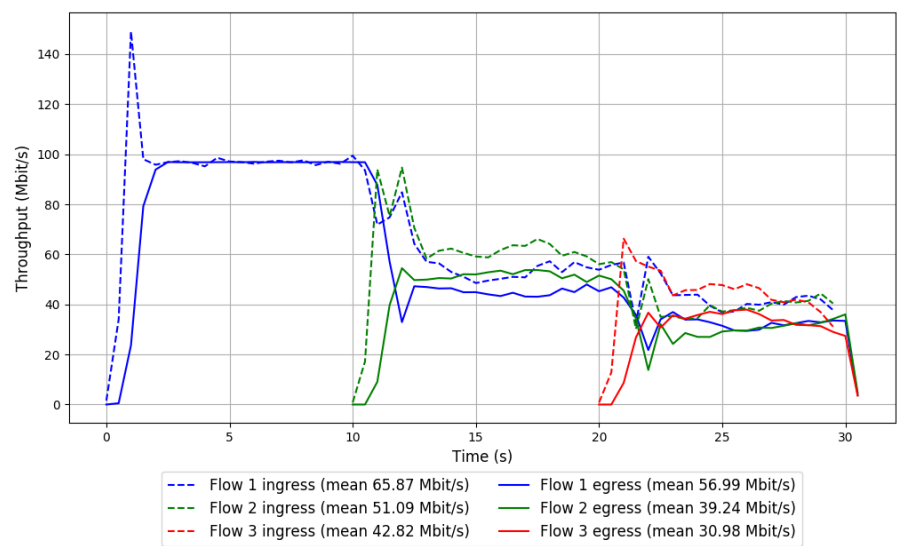
-- Flow 3:

Average throughput: 30.98 Mbit/s

95th percentile per-packet one-way delay: 109.325 ms

Loss rate: 27.64%

Run 9: Report of FillP-Sheep — Data Link



Run 10: Statistics of FillP-Sheep

Start at: 2018-08-09 11:55:54

End at: 2018-08-09 11:56:24

Local clock offset: -2.317 ms

Remote clock offset: 5.161 ms

Below is generated by plot.py at 2018-08-09 12:24:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.44 Mbit/s

95th percentile per-packet one-way delay: 114.968 ms

Loss rate: 19.01%

-- Flow 1:

Average throughput: 57.59 Mbit/s

95th percentile per-packet one-way delay: 113.903 ms

Loss rate: 15.00%

-- Flow 2:

Average throughput: 40.77 Mbit/s

95th percentile per-packet one-way delay: 113.978 ms

Loss rate: 24.39%

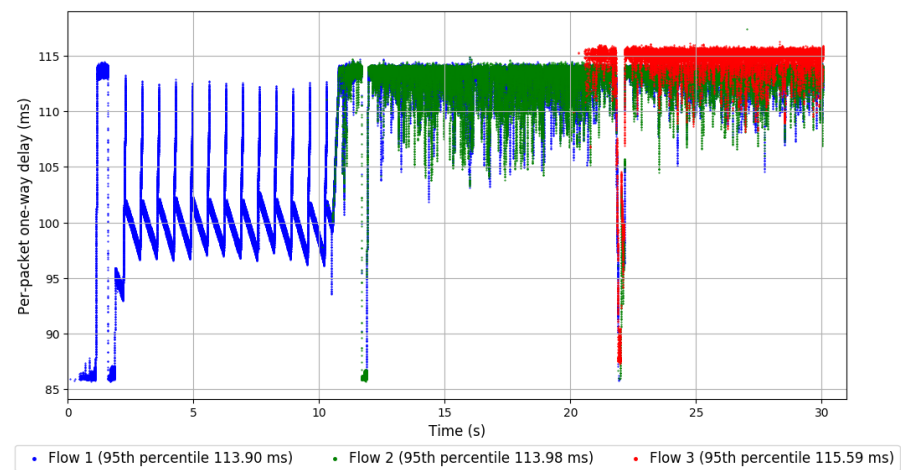
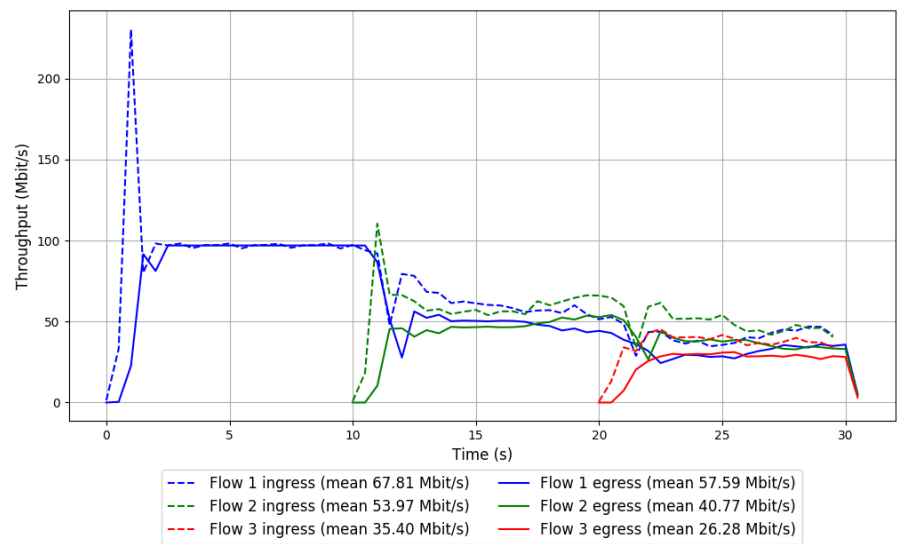
-- Flow 3:

Average throughput: 26.28 Mbit/s

95th percentile per-packet one-way delay: 115.586 ms

Loss rate: 25.73%

Run 10: Report of FillP-Sheep — Data Link

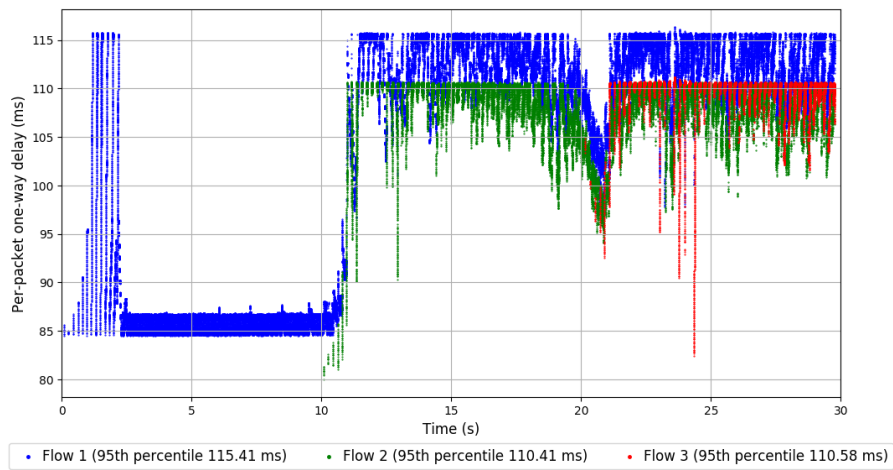
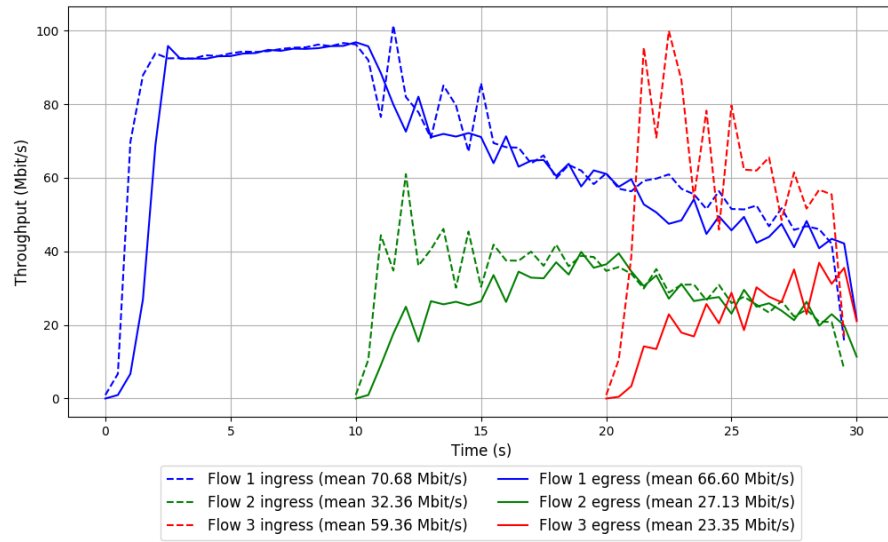


```
Run 1: Statistics of Indigo

Start at: 2018-08-09 08:49:49
End at: 2018-08-09 08:50:19
Local clock offset: -8.205 ms
Remote clock offset: 1.46 ms

# Below is generated by plot.py at 2018-08-09 12:24:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.11 Mbit/s
95th percentile per-packet one-way delay: 115.370 ms
Loss rate: 17.20%
-- Flow 1:
Average throughput: 66.60 Mbit/s
95th percentile per-packet one-way delay: 115.412 ms
Loss rate: 5.73%
-- Flow 2:
Average throughput: 27.13 Mbit/s
95th percentile per-packet one-way delay: 110.410 ms
Loss rate: 16.05%
-- Flow 3:
Average throughput: 23.35 Mbit/s
95th percentile per-packet one-way delay: 110.579 ms
Loss rate: 60.63%
```

Run 1: Report of Indigo — Data Link

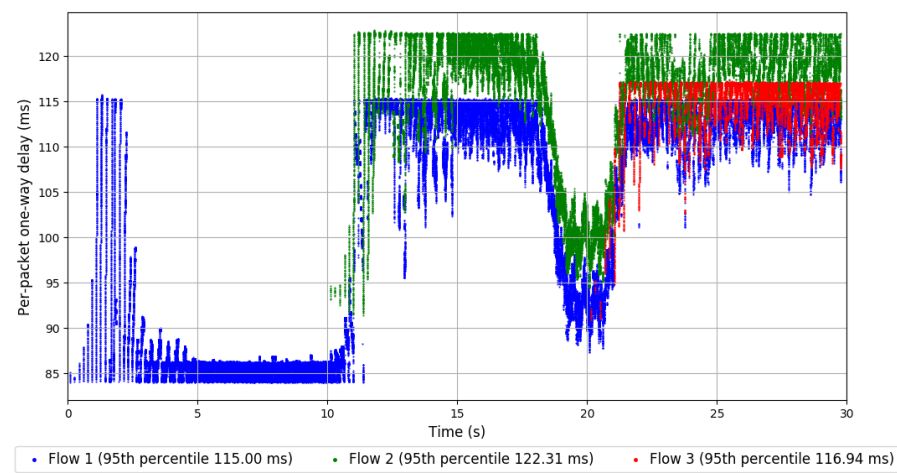
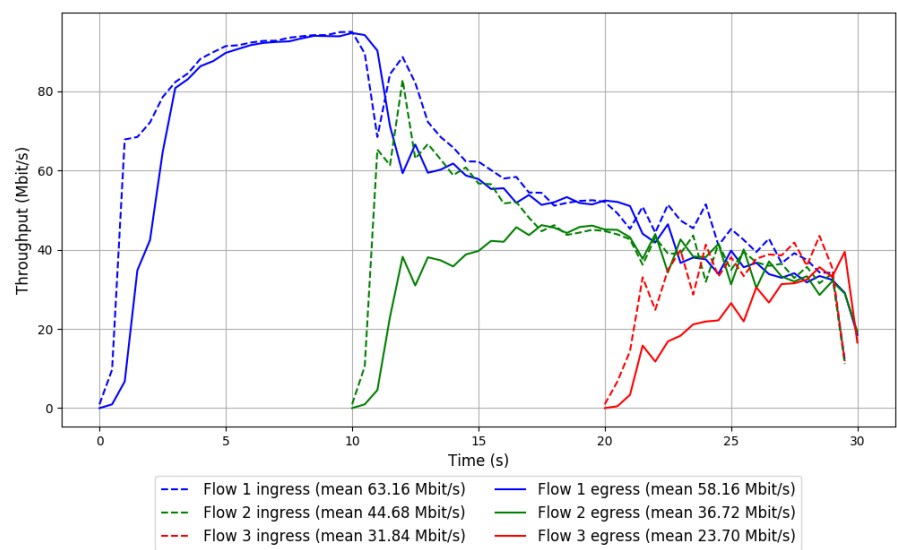


Run 2: Statistics of Indigo

Start at: 2018-08-09 09:11:01
End at: 2018-08-09 09:11:31
Local clock offset: -8.386 ms
Remote clock offset: 4.718 ms

Below is generated by plot.py at 2018-08-09 12:24:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.17 Mbit/s
95th percentile per-packet one-way delay: 121.087 ms
Loss rate: 12.45%
-- Flow 1:
Average throughput: 58.16 Mbit/s
95th percentile per-packet one-way delay: 115.005 ms
Loss rate: 7.85%
-- Flow 2:
Average throughput: 36.72 Mbit/s
95th percentile per-packet one-way delay: 122.310 ms
Loss rate: 17.75%
-- Flow 3:
Average throughput: 23.70 Mbit/s
95th percentile per-packet one-way delay: 116.943 ms
Loss rate: 25.41%

Run 2: Report of Indigo — Data Link

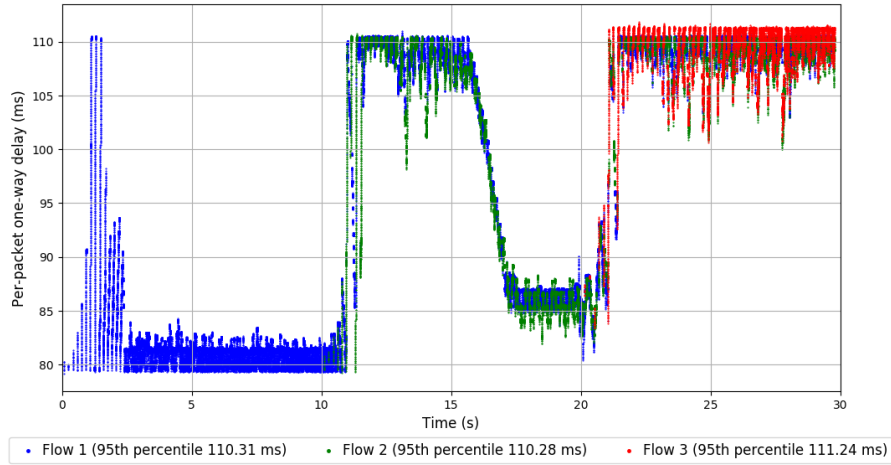
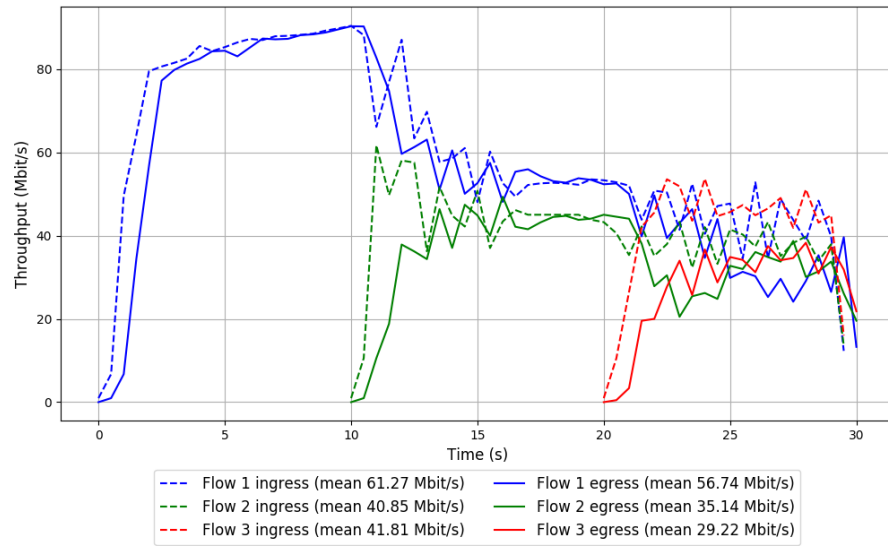


Run 3: Statistics of Indigo

Start at: 2018-08-09 09:32:14
End at: 2018-08-09 09:32:44
Local clock offset: -3.751 ms
Remote clock offset: -0.499 ms

Below is generated by plot.py at 2018-08-09 12:24:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.29 Mbit/s
95th percentile per-packet one-way delay: 110.412 ms
Loss rate: 12.05%
-- Flow 1:
Average throughput: 56.74 Mbit/s
95th percentile per-packet one-way delay: 110.305 ms
Loss rate: 7.29%
-- Flow 2:
Average throughput: 35.14 Mbit/s
95th percentile per-packet one-way delay: 110.279 ms
Loss rate: 13.84%
-- Flow 3:
Average throughput: 29.22 Mbit/s
95th percentile per-packet one-way delay: 111.237 ms
Loss rate: 29.95%

Run 3: Report of Indigo — Data Link

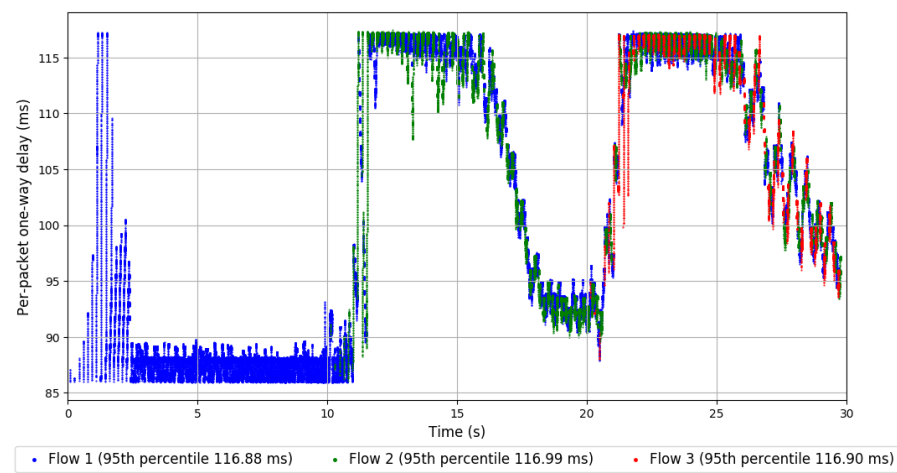
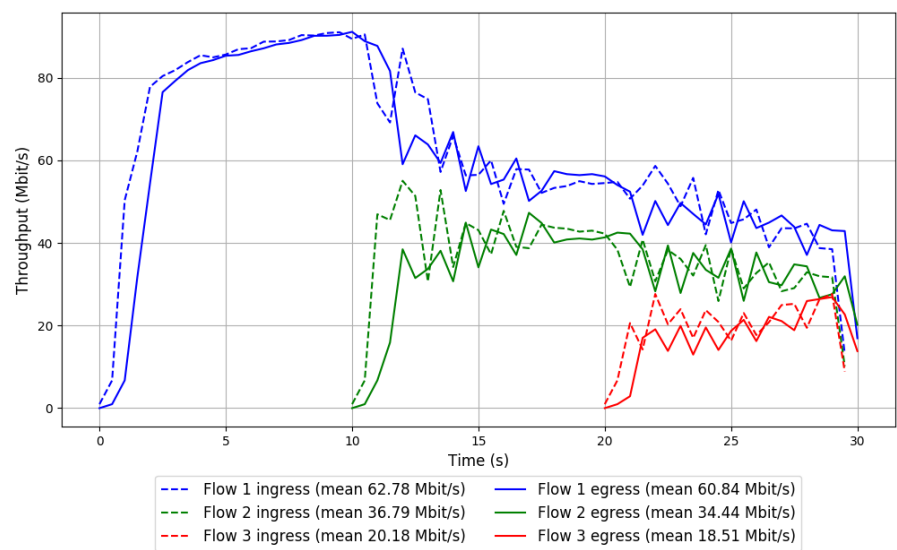


Run 4: Statistics of Indigo

Start at: 2018-08-09 09:53:31
End at: 2018-08-09 09:54:01
Local clock offset: -2.912 ms
Remote clock offset: 4.02 ms

Below is generated by plot.py at 2018-08-09 12:24:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.50 Mbit/s
95th percentile per-packet one-way delay: 116.918 ms
Loss rate: 4.29%
-- Flow 1:
Average throughput: 60.84 Mbit/s
95th percentile per-packet one-way delay: 116.878 ms
Loss rate: 3.06%
-- Flow 2:
Average throughput: 34.44 Mbit/s
95th percentile per-packet one-way delay: 116.991 ms
Loss rate: 6.37%
-- Flow 3:
Average throughput: 18.51 Mbit/s
95th percentile per-packet one-way delay: 116.901 ms
Loss rate: 8.28%

Run 4: Report of Indigo — Data Link

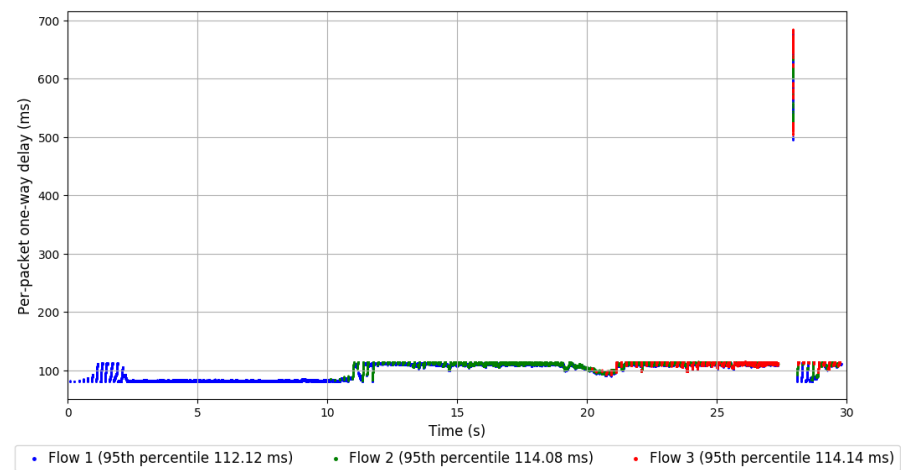
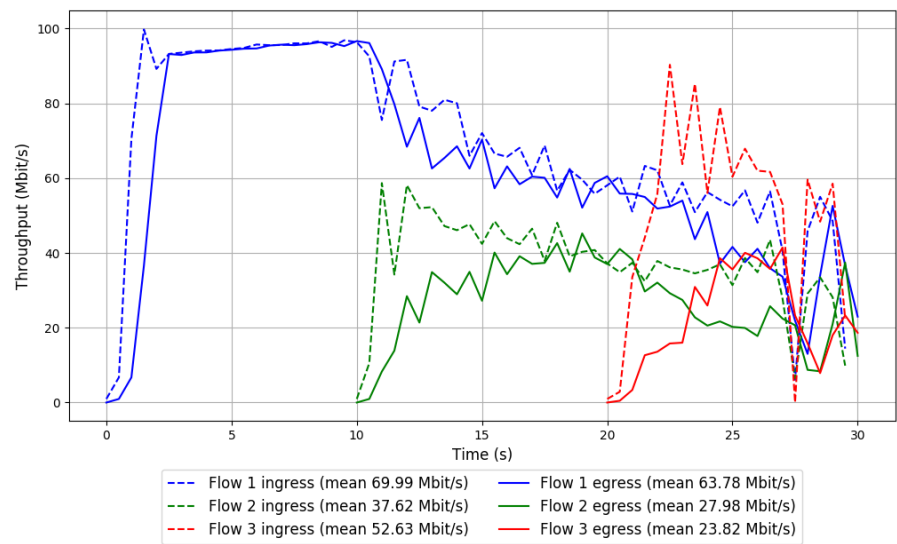


Run 5: Statistics of Indigo

Start at: 2018-08-09 10:14:41
End at: 2018-08-09 10:15:11
Local clock offset: -2.617 ms
Remote clock offset: -0.685 ms

Below is generated by plot.py at 2018-08-09 12:25:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.89 Mbit/s
95th percentile per-packet one-way delay: 113.871 ms
Loss rate: 19.56%
-- Flow 1:
Average throughput: 63.78 Mbit/s
95th percentile per-packet one-way delay: 112.123 ms
Loss rate: 8.78%
-- Flow 2:
Average throughput: 27.98 Mbit/s
95th percentile per-packet one-way delay: 114.077 ms
Loss rate: 25.96%
-- Flow 3:
Average throughput: 23.82 Mbit/s
95th percentile per-packet one-way delay: 114.142 ms
Loss rate: 54.68%

Run 5: Report of Indigo — Data Link

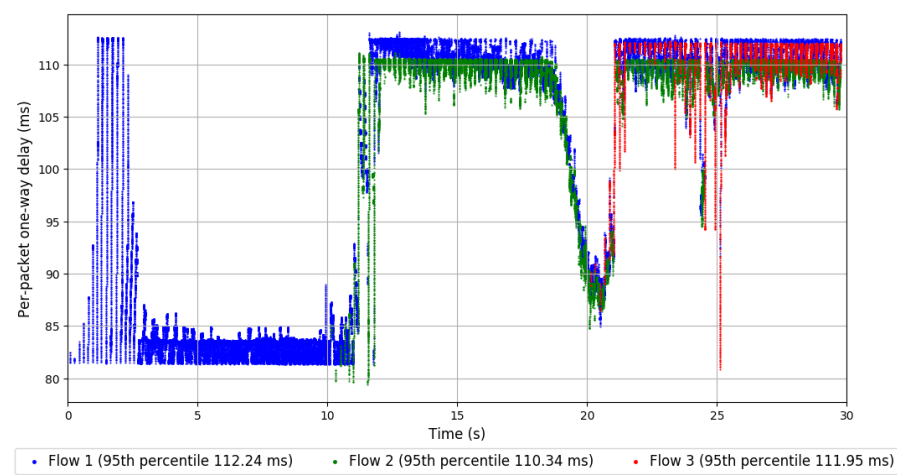
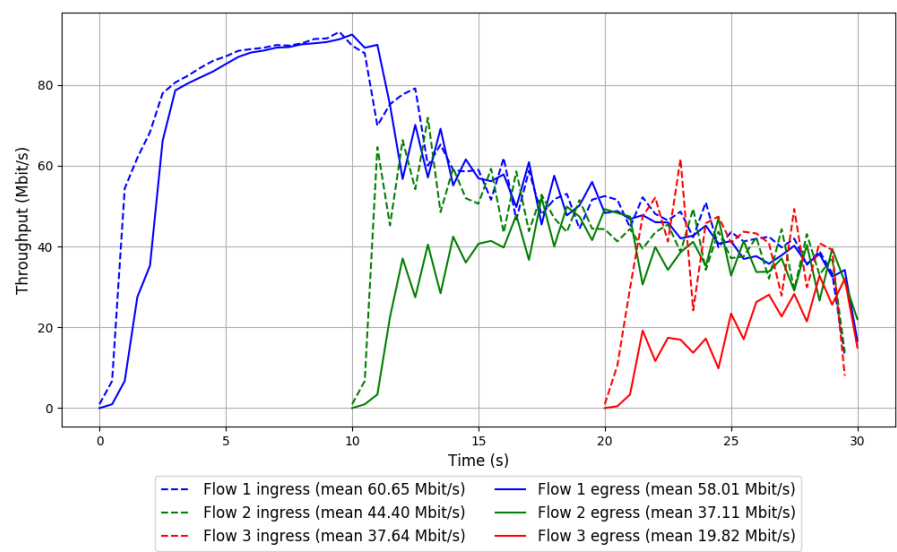


Run 6: Statistics of Indigo

Start at: 2018-08-09 10:35:53
End at: 2018-08-09 10:36:23
Local clock offset: -2.683 ms
Remote clock offset: -0.475 ms

Below is generated by plot.py at 2018-08-09 12:25:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.94 Mbit/s
95th percentile per-packet one-way delay: 112.173 ms
Loss rate: 12.86%
-- Flow 1:
Average throughput: 58.01 Mbit/s
95th percentile per-packet one-way delay: 112.237 ms
Loss rate: 4.28%
-- Flow 2:
Average throughput: 37.11 Mbit/s
95th percentile per-packet one-way delay: 110.339 ms
Loss rate: 16.31%
-- Flow 3:
Average throughput: 19.82 Mbit/s
95th percentile per-packet one-way delay: 111.953 ms
Loss rate: 47.23%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-08-09 10:57:05

End at: 2018-08-09 10:57:35

Local clock offset: -2.481 ms

Remote clock offset: 8.114 ms

Below is generated by plot.py at 2018-08-09 12:25:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.42 Mbit/s

95th percentile per-packet one-way delay: 123.161 ms

Loss rate: 27.97%

-- Flow 1:

Average throughput: 62.15 Mbit/s

95th percentile per-packet one-way delay: 118.031 ms

Loss rate: 10.53%

-- Flow 2:

Average throughput: 27.20 Mbit/s

95th percentile per-packet one-way delay: 119.822 ms

Loss rate: 27.35%

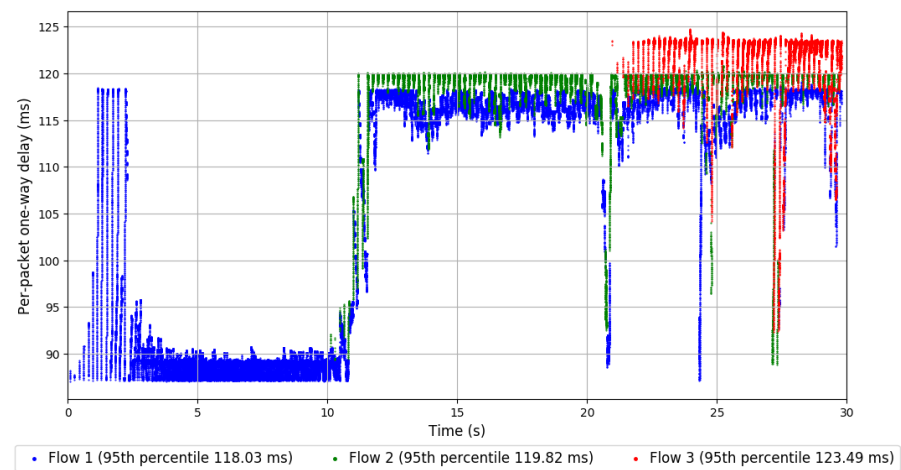
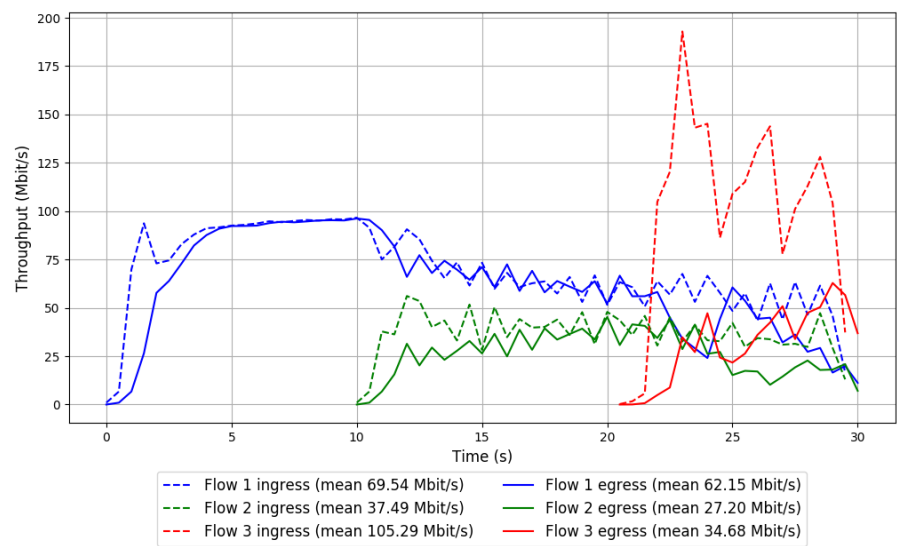
-- Flow 3:

Average throughput: 34.68 Mbit/s

95th percentile per-packet one-way delay: 123.494 ms

Loss rate: 67.08%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-08-09 11:18:19

End at: 2018-08-09 11:18:49

Local clock offset: -2.124 ms

Remote clock offset: 2.224 ms

Below is generated by plot.py at 2018-08-09 12:25:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.35 Mbit/s

95th percentile per-packet one-way delay: 113.034 ms

Loss rate: 19.45%

-- Flow 1:

Average throughput: 63.04 Mbit/s

95th percentile per-packet one-way delay: 111.451 ms

Loss rate: 11.76%

-- Flow 2:

Average throughput: 30.26 Mbit/s

95th percentile per-packet one-way delay: 113.190 ms

Loss rate: 15.97%

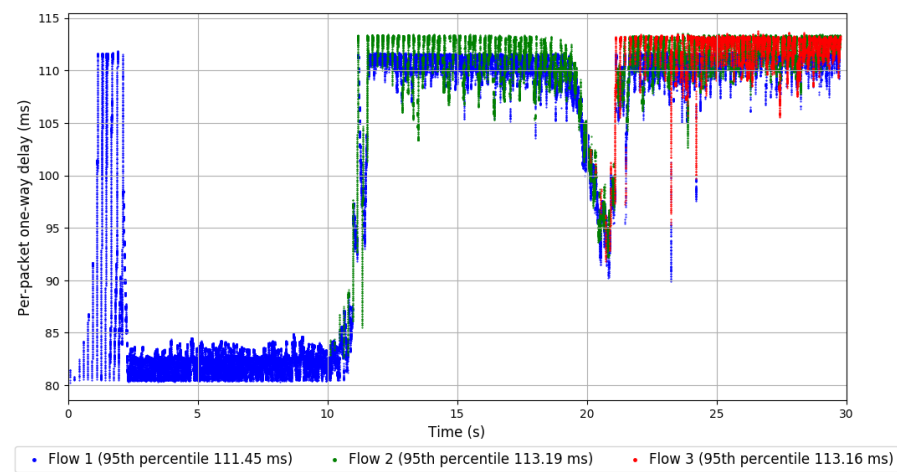
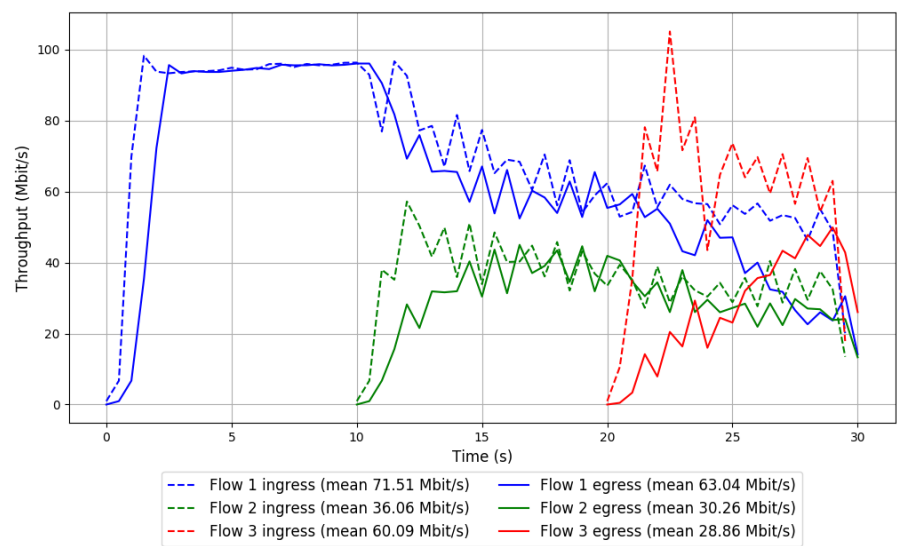
-- Flow 3:

Average throughput: 28.86 Mbit/s

95th percentile per-packet one-way delay: 113.155 ms

Loss rate: 51.92%

Run 8: Report of Indigo — Data Link

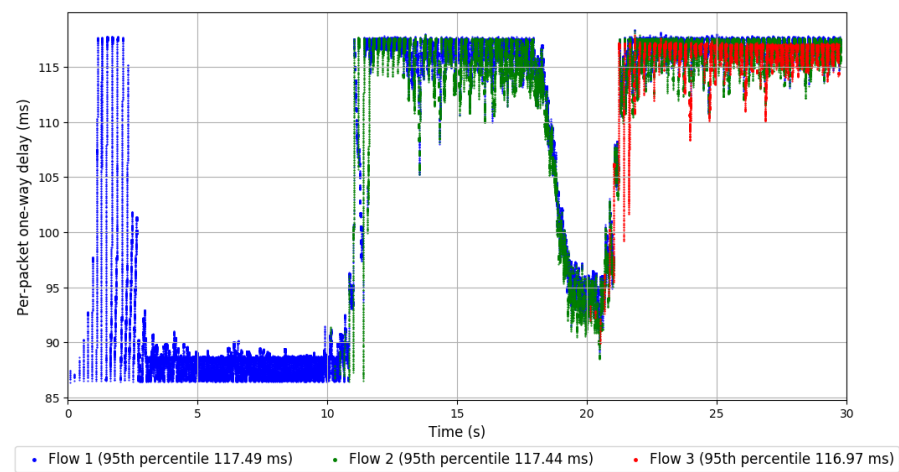
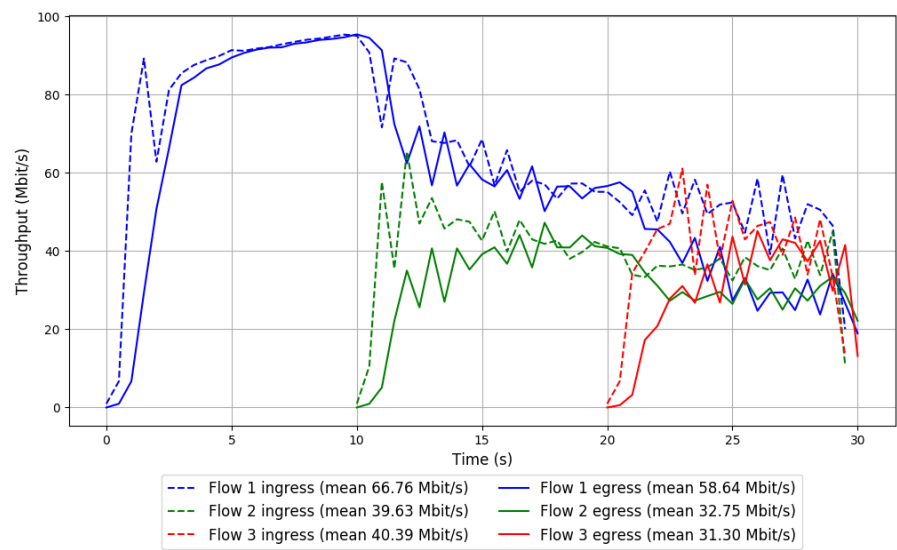


Run 9: Statistics of Indigo

Start at: 2018-08-09 11:39:37
End at: 2018-08-09 11:40:07
Local clock offset: -2.183 ms
Remote clock offset: 5.472 ms

Below is generated by plot.py at 2018-08-09 12:25:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.37 Mbit/s
95th percentile per-packet one-way delay: 117.473 ms
Loss rate: 14.61%
-- Flow 1:
Average throughput: 58.64 Mbit/s
95th percentile per-packet one-way delay: 117.486 ms
Loss rate: 12.07%
-- Flow 2:
Average throughput: 32.75 Mbit/s
95th percentile per-packet one-way delay: 117.441 ms
Loss rate: 17.27%
-- Flow 3:
Average throughput: 31.30 Mbit/s
95th percentile per-packet one-way delay: 116.973 ms
Loss rate: 22.32%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-08-09 12:00:50

End at: 2018-08-09 12:01:20

Local clock offset: -2.328 ms

Remote clock offset: 0.254 ms

Below is generated by plot.py at 2018-08-09 12:26:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.18 Mbit/s

95th percentile per-packet one-way delay: 110.384 ms

Loss rate: 12.30%

-- Flow 1:

Average throughput: 62.22 Mbit/s

95th percentile per-packet one-way delay: 109.918 ms

Loss rate: 3.87%

-- Flow 2:

Average throughput: 32.88 Mbit/s

95th percentile per-packet one-way delay: 110.442 ms

Loss rate: 13.86%

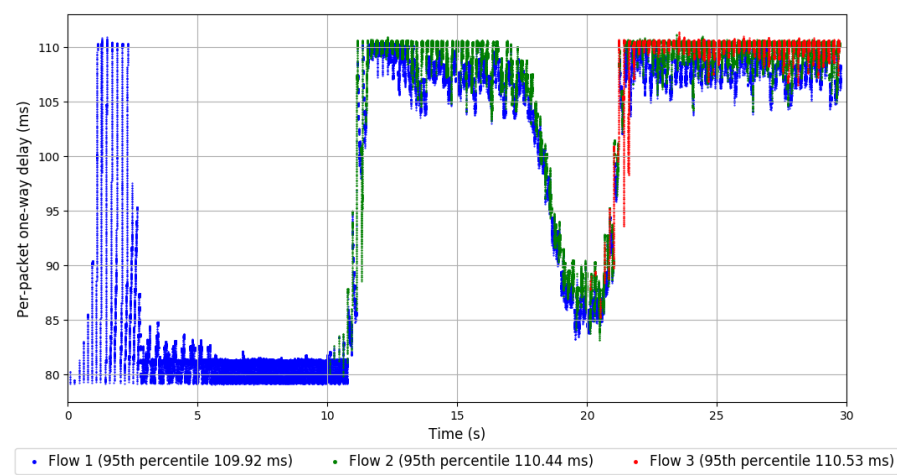
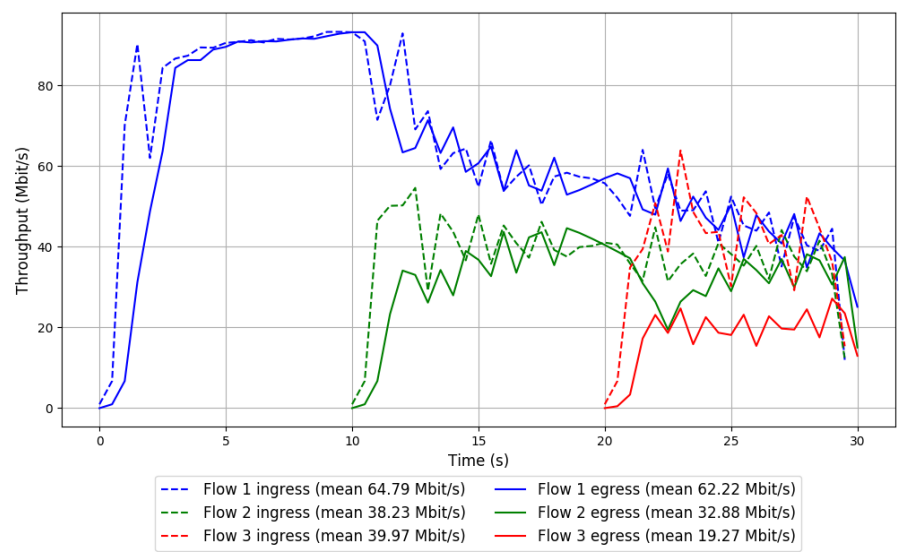
-- Flow 3:

Average throughput: 19.27 Mbit/s

95th percentile per-packet one-way delay: 110.532 ms

Loss rate: 51.66%

Run 10: Report of Indigo — Data Link

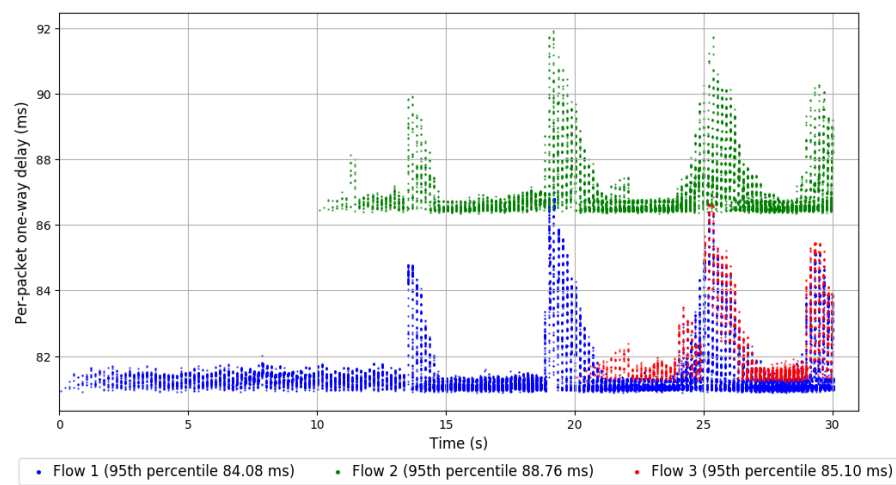
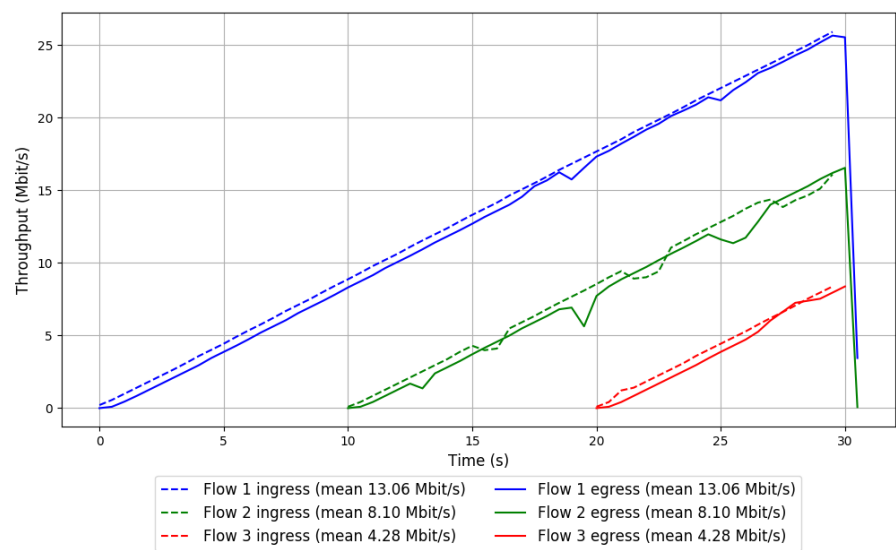


```
Run 1: Statistics of LEDBAT

Start at: 2018-08-09 08:47:24
End at: 2018-08-09 08:47:54
Local clock offset: -8.27 ms
Remote clock offset: 1.415 ms

# Below is generated by plot.py at 2018-08-09 12:26:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.85 Mbit/s
95th percentile per-packet one-way delay: 87.432 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.06 Mbit/s
95th percentile per-packet one-way delay: 84.080 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 8.10 Mbit/s
95th percentile per-packet one-way delay: 88.758 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.28 Mbit/s
95th percentile per-packet one-way delay: 85.098 ms
Loss rate: 0.00%
```


Run 1: Report of LEDBAT — Data Link

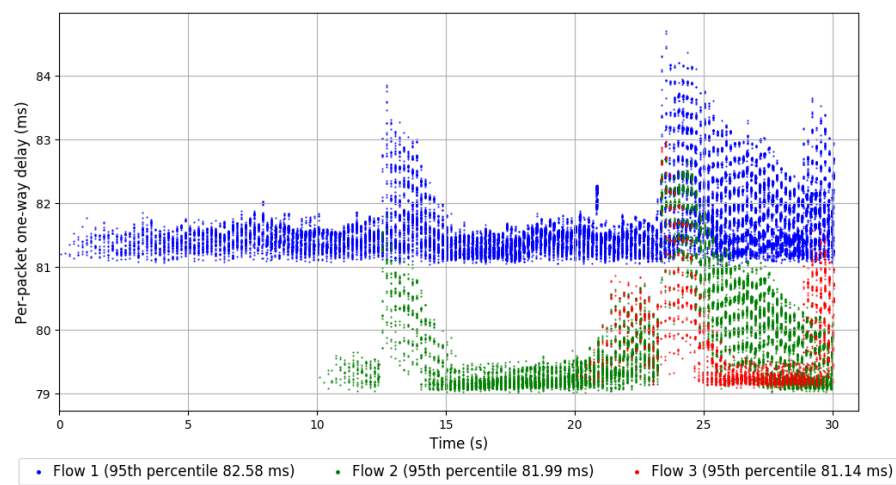
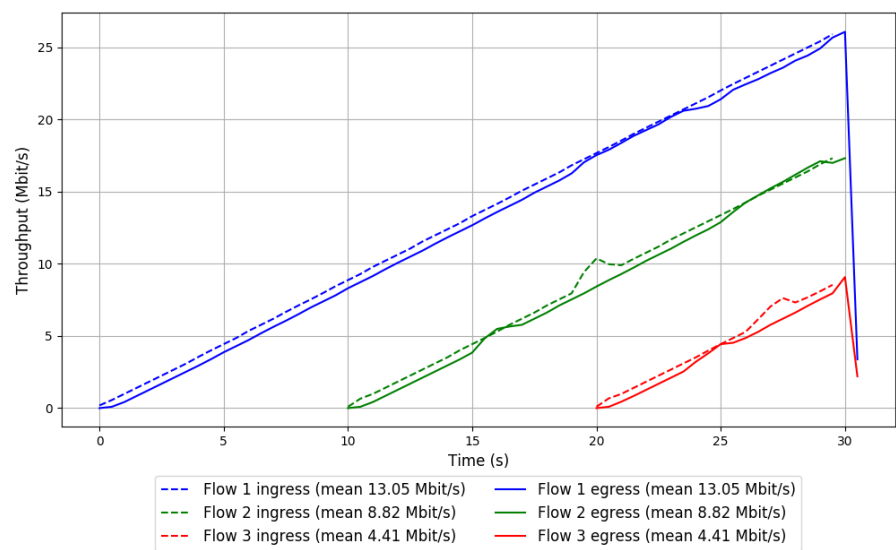


Run 2: Statistics of LEDBAT

Start at: 2018-08-09 09:08:36
End at: 2018-08-09 09:09:06
Local clock offset: -8.286 ms
Remote clock offset: -0.117 ms

Below is generated by plot.py at 2018-08-09 12:26:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 20.36 Mbit/s
95th percentile per-packet one-way delay: 82.412 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.05 Mbit/s
95th percentile per-packet one-way delay: 82.583 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 8.82 Mbit/s
95th percentile per-packet one-way delay: 81.989 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.41 Mbit/s
95th percentile per-packet one-way delay: 81.140 ms
Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link

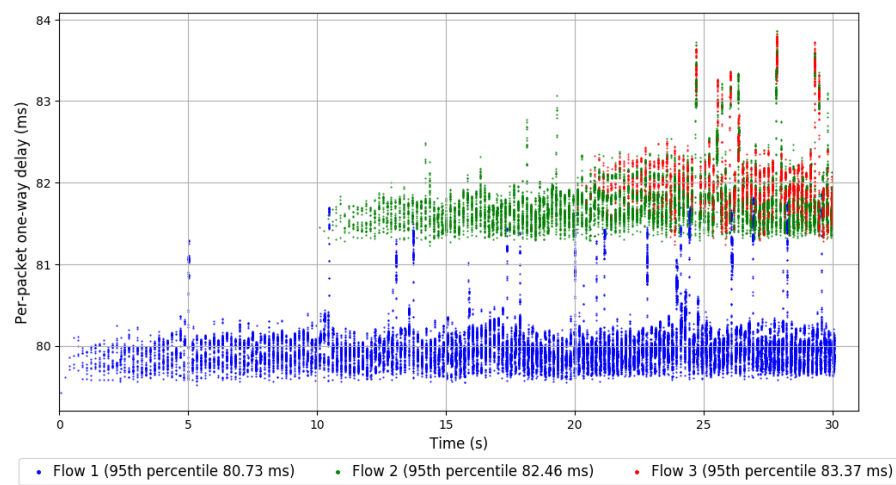
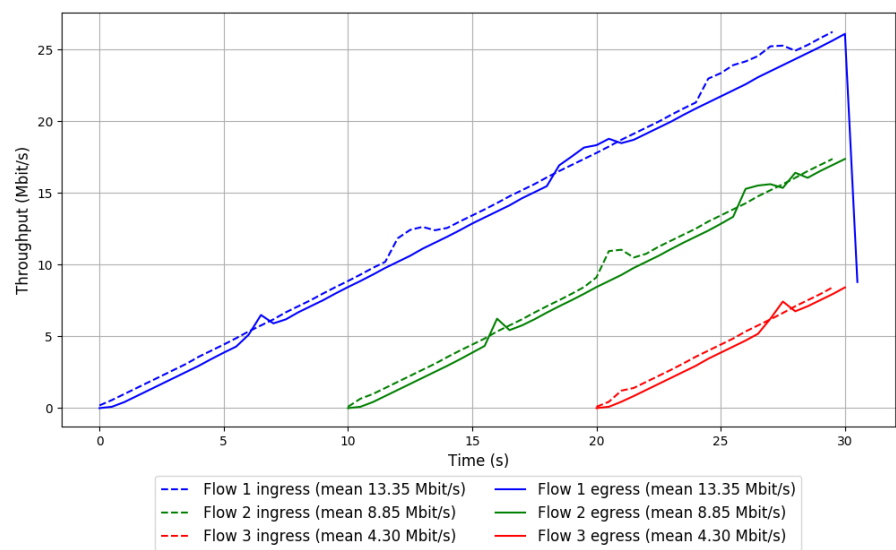


Run 3: Statistics of LEDBAT

Start at: 2018-08-09 09:29:49
End at: 2018-08-09 09:30:19
Local clock offset: -4.128 ms
Remote clock offset: -0.545 ms

Below is generated by plot.py at 2018-08-09 12:26:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 20.63 Mbit/s
95th percentile per-packet one-way delay: 82.107 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.35 Mbit/s
95th percentile per-packet one-way delay: 80.735 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 8.85 Mbit/s
95th percentile per-packet one-way delay: 82.458 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.30 Mbit/s
95th percentile per-packet one-way delay: 83.370 ms
Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-08-09 09:51:06

End at: 2018-08-09 09:51:36

Local clock offset: -2.922 ms

Remote clock offset: 5.186 ms

Below is generated by plot.py at 2018-08-09 12:26:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.63 Mbit/s

95th percentile per-packet one-way delay: 89.935 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 13.64 Mbit/s

95th percentile per-packet one-way delay: 87.658 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 8.46 Mbit/s

95th percentile per-packet one-way delay: 90.786 ms

Loss rate: 0.10%

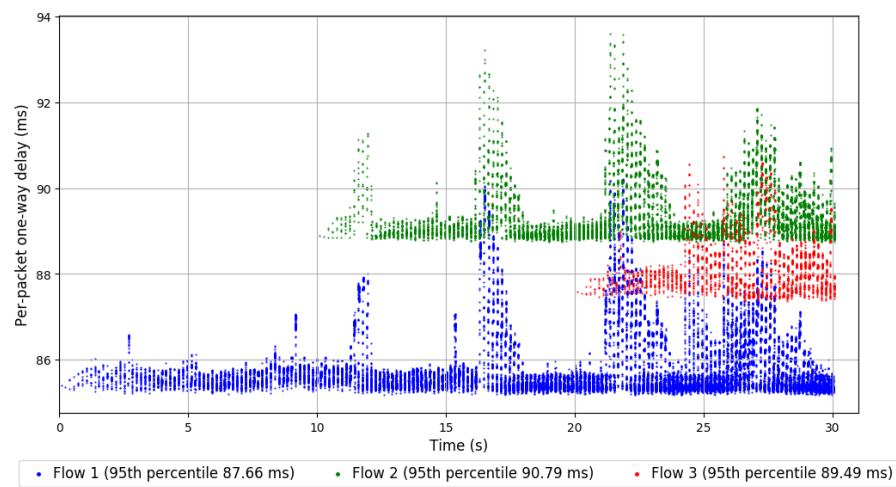
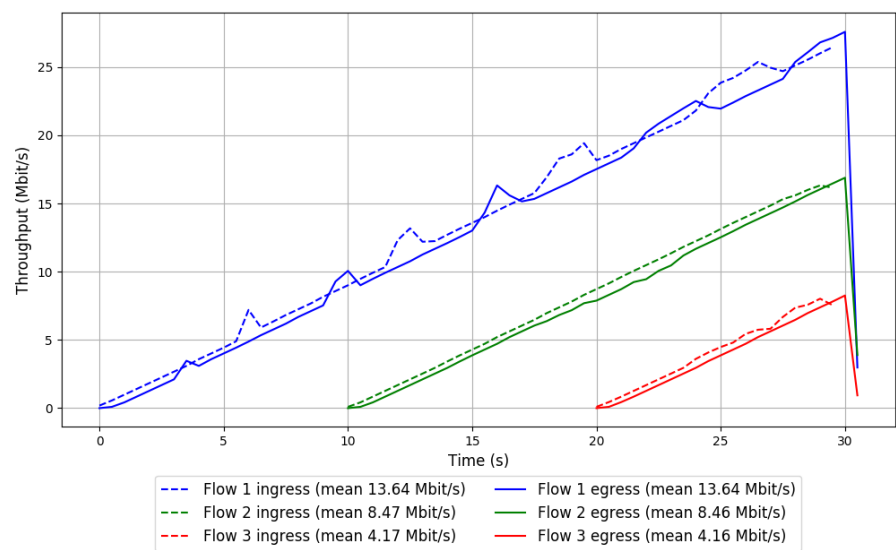
-- Flow 3:

Average throughput: 4.16 Mbit/s

95th percentile per-packet one-way delay: 89.494 ms

Loss rate: 0.17%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-08-09 10:12:15

End at: 2018-08-09 10:12:45

Local clock offset: -2.696 ms

Remote clock offset: 5.204 ms

Below is generated by plot.py at 2018-08-09 12:26:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.19 Mbit/s

95th percentile per-packet one-way delay: 88.986 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 13.05 Mbit/s

95th percentile per-packet one-way delay: 88.367 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 8.53 Mbit/s

95th percentile per-packet one-way delay: 89.602 ms

Loss rate: 0.06%

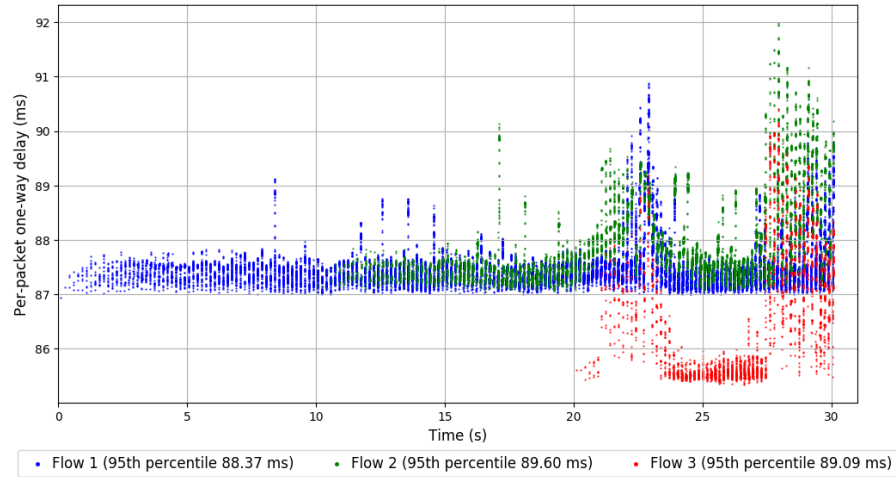
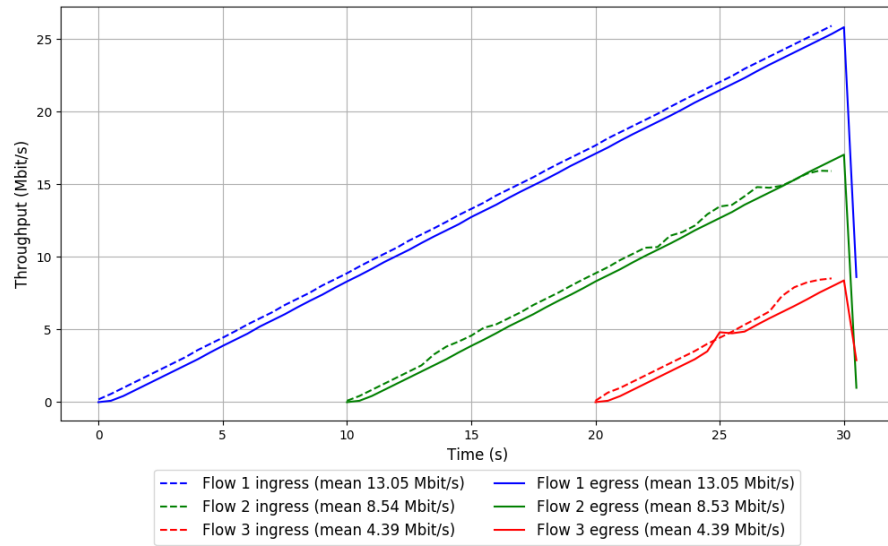
-- Flow 3:

Average throughput: 4.39 Mbit/s

95th percentile per-packet one-way delay: 89.090 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-08-09 10:33:27

End at: 2018-08-09 10:33:57

Local clock offset: -2.734 ms

Remote clock offset: 4.098 ms

Below is generated by plot.py at 2018-08-09 12:26:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.33 Mbit/s

95th percentile per-packet one-way delay: 91.442 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 12.84 Mbit/s

95th percentile per-packet one-way delay: 91.884 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 9.05 Mbit/s

95th percentile per-packet one-way delay: 87.457 ms

Loss rate: 0.00%

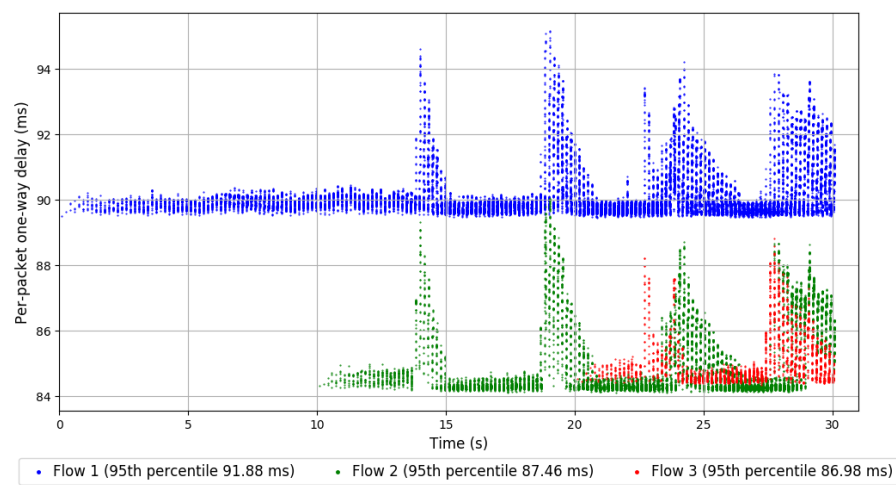
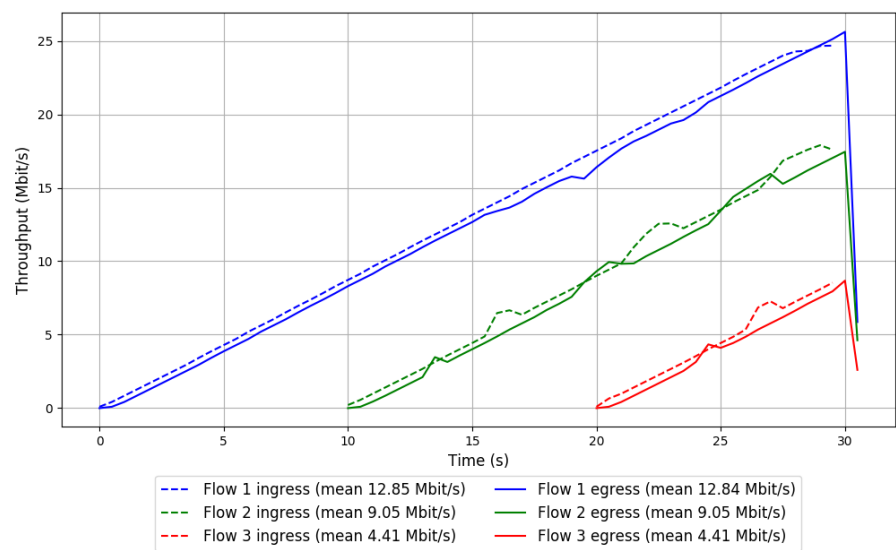
-- Flow 3:

Average throughput: 4.41 Mbit/s

95th percentile per-packet one-way delay: 86.982 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link

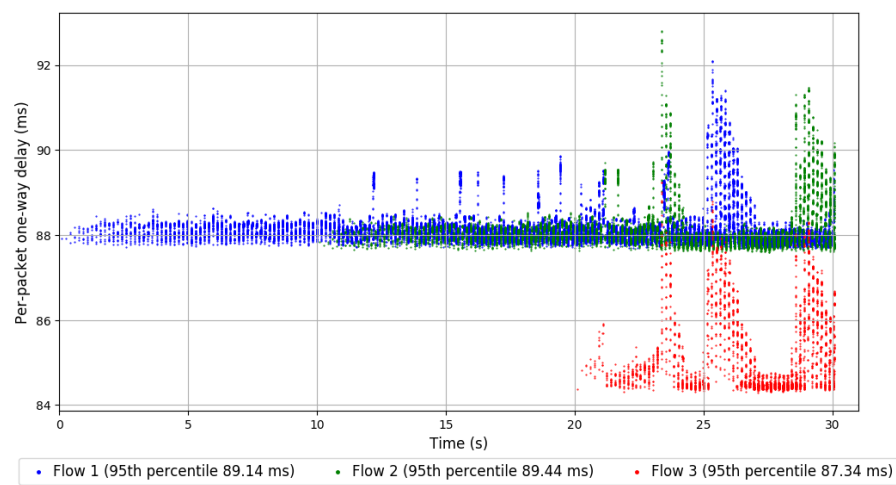
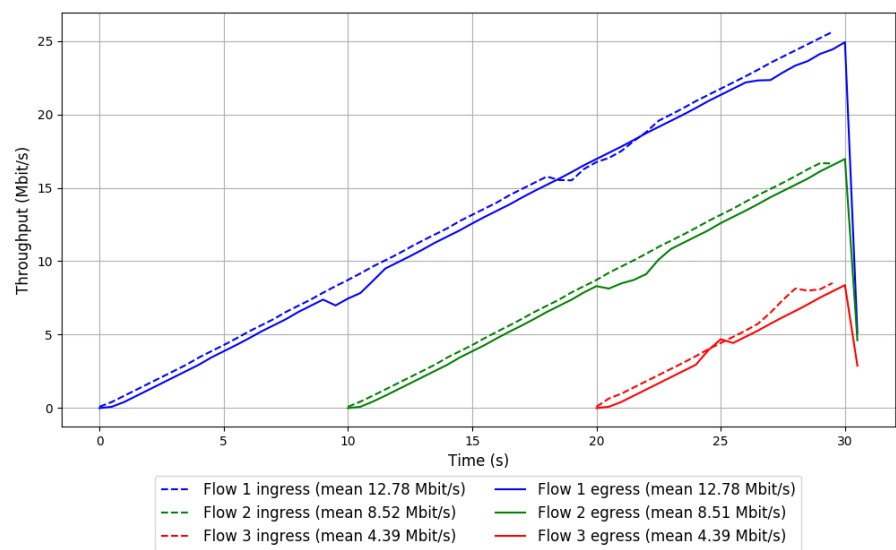


Run 7: Statistics of LEDBAT

Start at: 2018-08-09 10:54:40
End at: 2018-08-09 10:55:10
Local clock offset: -2.458 ms
Remote clock offset: 6.858 ms

Below is generated by plot.py at 2018-08-09 12:26:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.89 Mbit/s
95th percentile per-packet one-way delay: 89.206 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 12.78 Mbit/s
95th percentile per-packet one-way delay: 89.137 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 8.51 Mbit/s
95th percentile per-packet one-way delay: 89.440 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 4.39 Mbit/s
95th percentile per-packet one-way delay: 87.338 ms
Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-08-09 11:15:53

End at: 2018-08-09 11:16:23

Local clock offset: -2.066 ms

Remote clock offset: 1.481 ms

Below is generated by plot.py at 2018-08-09 12:26:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.82 Mbit/s

95th percentile per-packet one-way delay: 88.247 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 12.50 Mbit/s

95th percentile per-packet one-way delay: 88.664 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 8.79 Mbit/s

95th percentile per-packet one-way delay: 83.932 ms

Loss rate: 0.00%

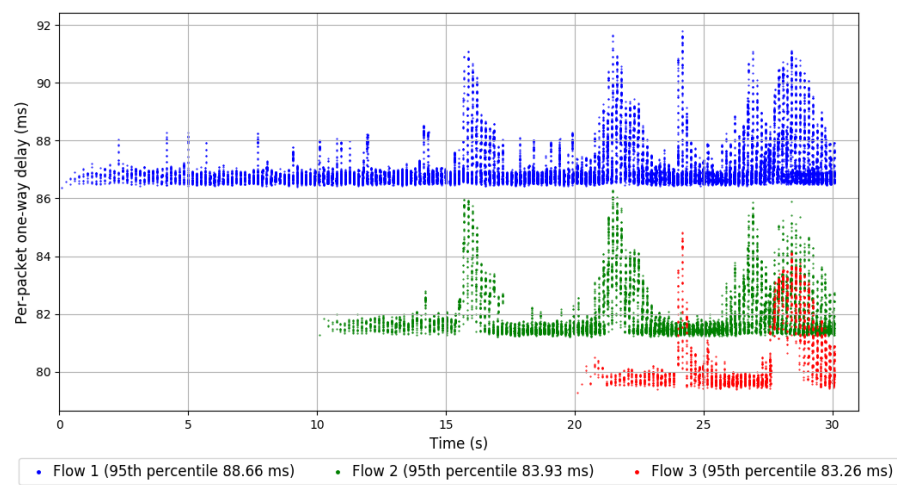
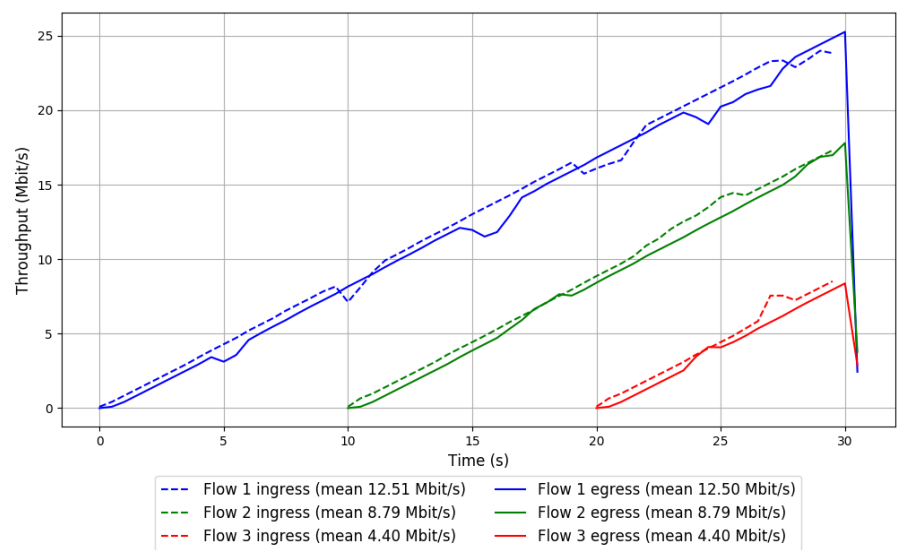
-- Flow 3:

Average throughput: 4.40 Mbit/s

95th percentile per-packet one-way delay: 83.259 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-08-09 11:37:11

End at: 2018-08-09 11:37:41

Local clock offset: -2.196 ms

Remote clock offset: 0.406 ms

Below is generated by plot.py at 2018-08-09 12:26:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.85 Mbit/s

95th percentile per-packet one-way delay: 81.890 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 13.58 Mbit/s

95th percentile per-packet one-way delay: 81.326 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 8.85 Mbit/s

95th percentile per-packet one-way delay: 82.131 ms

Loss rate: 0.00%

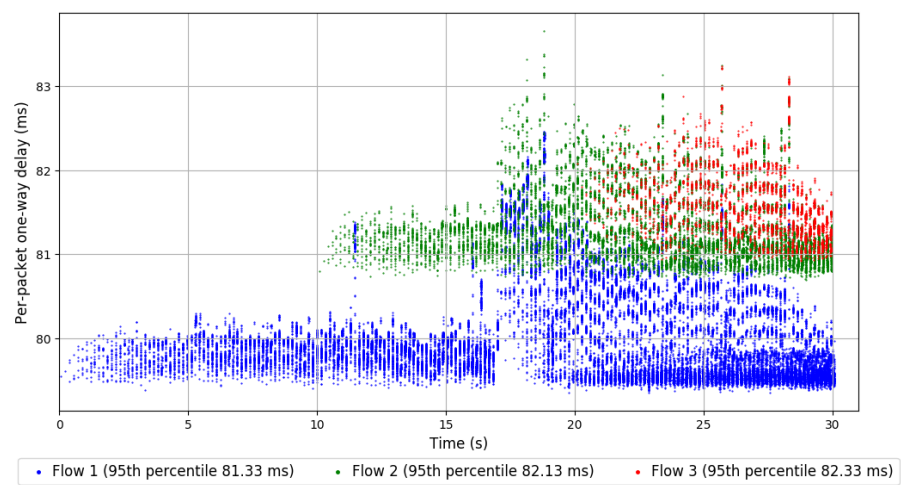
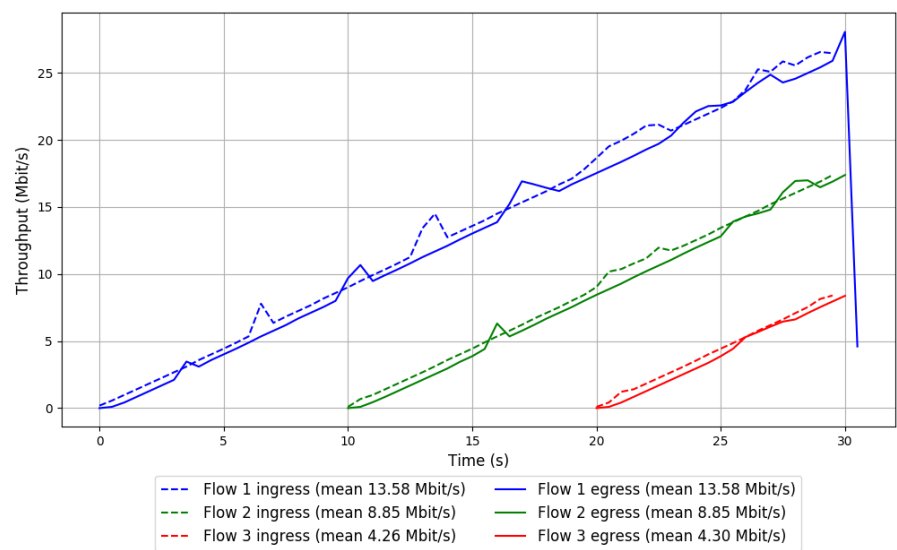
-- Flow 3:

Average throughput: 4.30 Mbit/s

95th percentile per-packet one-way delay: 82.328 ms

Loss rate: 0.25%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-08-09 11:58:24

End at: 2018-08-09 11:58:54

Local clock offset: -2.301 ms

Remote clock offset: 0.15 ms

Below is generated by plot.py at 2018-08-09 12:26:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.59 Mbit/s

95th percentile per-packet one-way delay: 82.259 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 10.48 Mbit/s

95th percentile per-packet one-way delay: 82.024 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 8.52 Mbit/s

95th percentile per-packet one-way delay: 82.885 ms

Loss rate: 0.03%

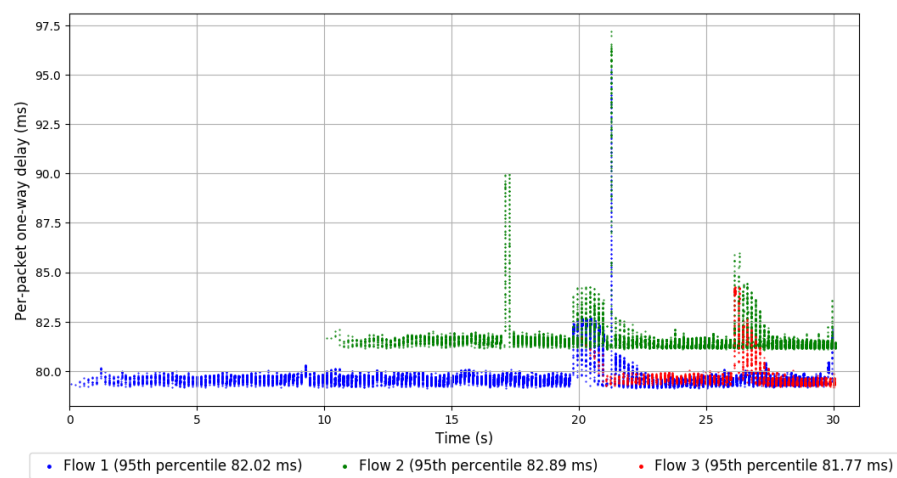
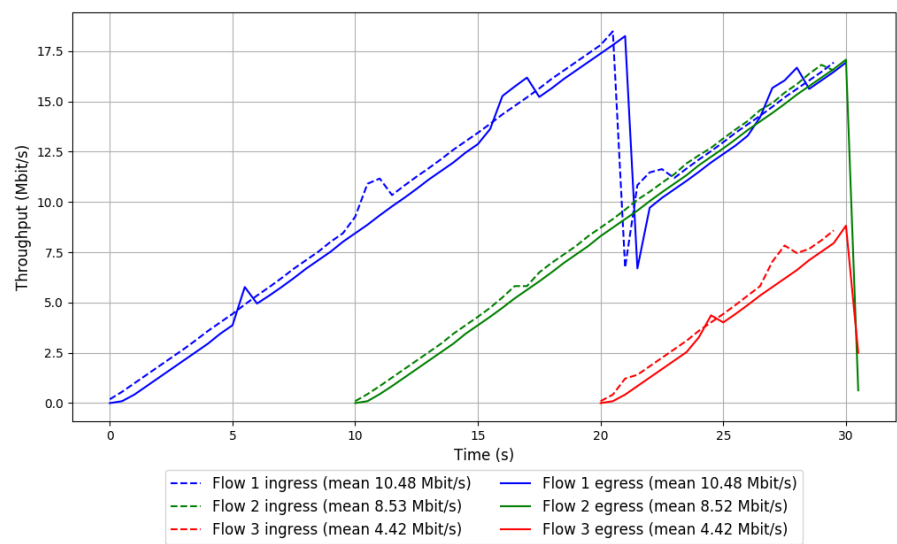
-- Flow 3:

Average throughput: 4.42 Mbit/s

95th percentile per-packet one-way delay: 81.766 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

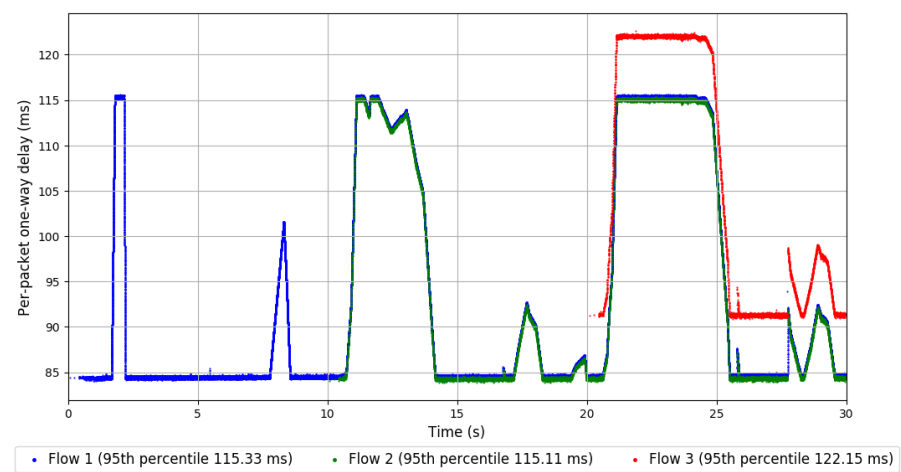
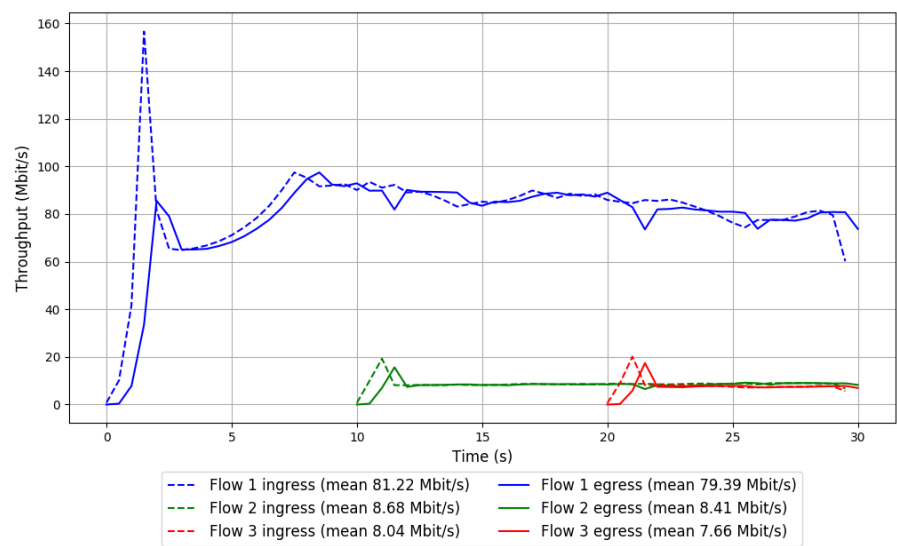


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-08-09 08:52:16
End at: 2018-08-09 08:52:46
Local clock offset: -8.212 ms
Remote clock offset: 6.278 ms

# Below is generated by plot.py at 2018-08-09 12:26:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.51 Mbit/s
95th percentile per-packet one-way delay: 115.343 ms
Loss rate: 2.37%
-- Flow 1:
Average throughput: 79.39 Mbit/s
95th percentile per-packet one-way delay: 115.326 ms
Loss rate: 2.24%
-- Flow 2:
Average throughput: 8.41 Mbit/s
95th percentile per-packet one-way delay: 115.111 ms
Loss rate: 3.18%
-- Flow 3:
Average throughput: 7.66 Mbit/s
95th percentile per-packet one-way delay: 122.149 ms
Loss rate: 4.72%
```

Run 1: Report of PCC-Allegro — Data Link

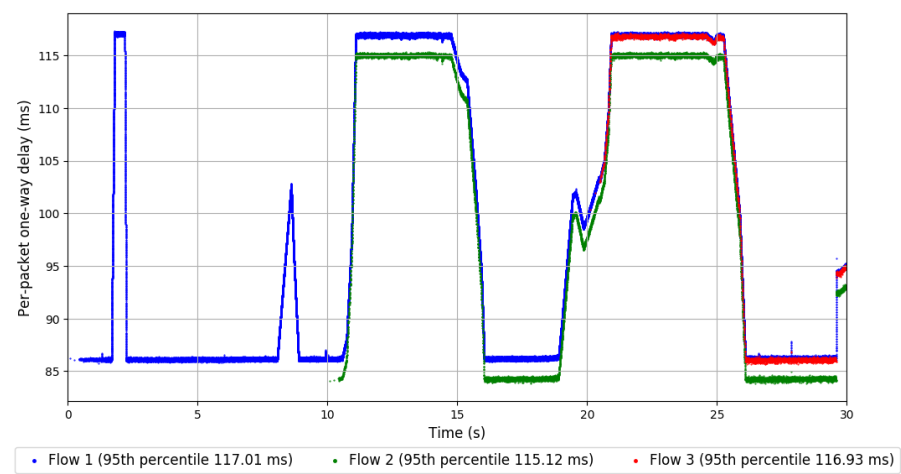
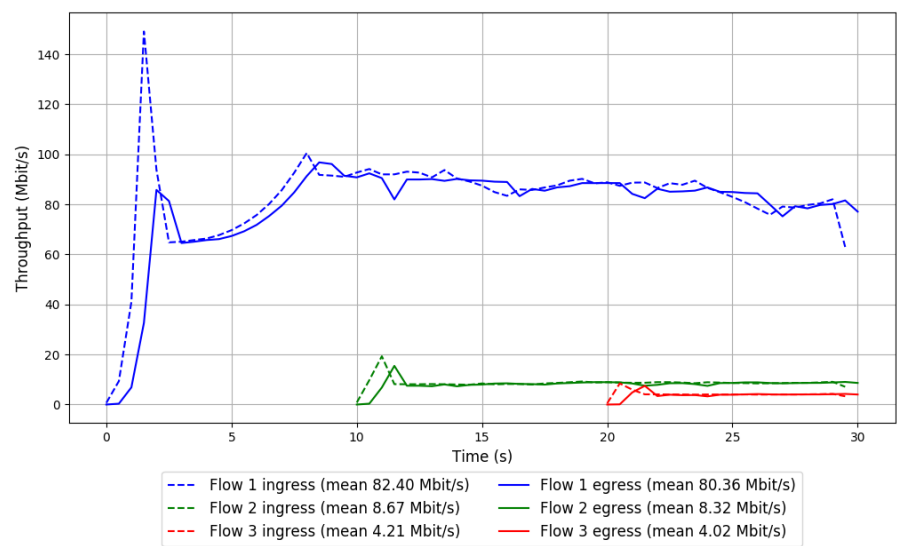


Run 2: Statistics of PCC-Allegro

Start at: 2018-08-09 09:13:30
End at: 2018-08-09 09:14:00
Local clock offset: -8.347 ms
Remote clock offset: 4.604 ms

Below is generated by plot.py at 2018-08-09 12:26:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.23 Mbit/s
95th percentile per-packet one-way delay: 117.007 ms
Loss rate: 2.58%
-- Flow 1:
Average throughput: 80.36 Mbit/s
95th percentile per-packet one-way delay: 117.013 ms
Loss rate: 2.45%
-- Flow 2:
Average throughput: 8.32 Mbit/s
95th percentile per-packet one-way delay: 115.123 ms
Loss rate: 3.94%
-- Flow 3:
Average throughput: 4.02 Mbit/s
95th percentile per-packet one-way delay: 116.929 ms
Loss rate: 4.50%

Run 2: Report of PCC-Allegro — Data Link

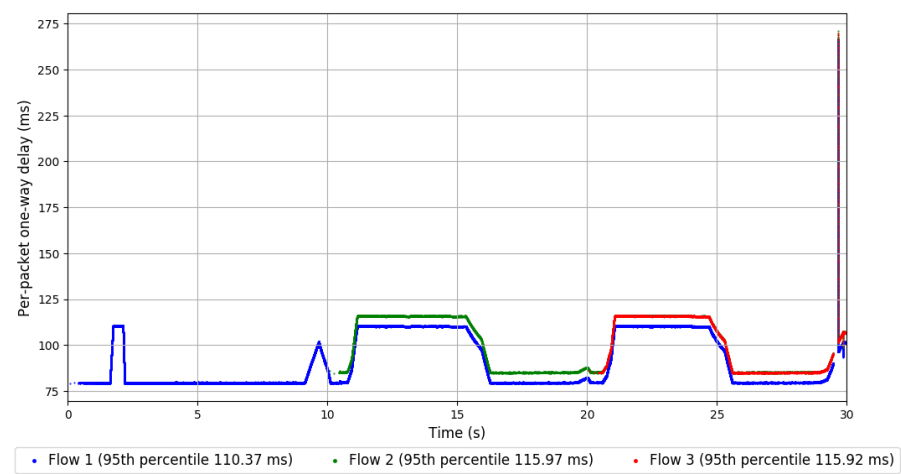
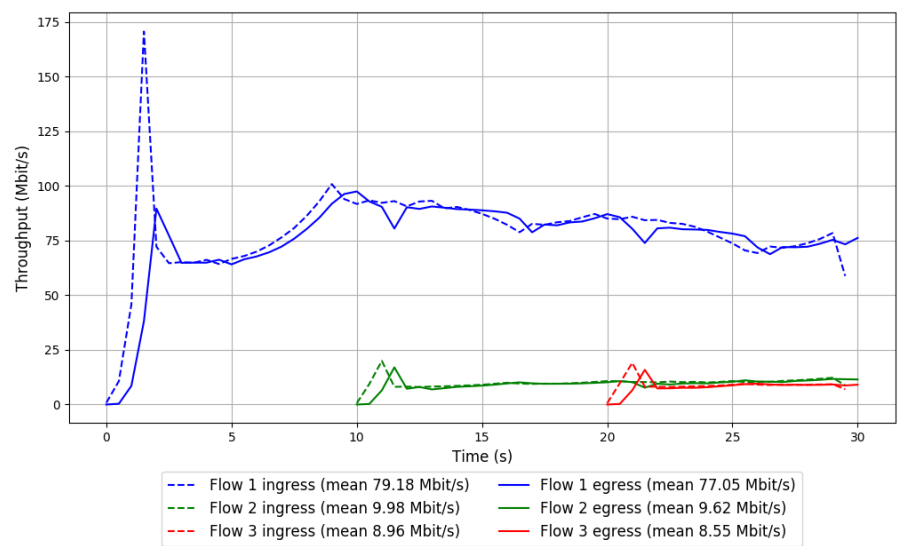


Run 3: Statistics of PCC-Allegro

Start at: 2018-08-09 09:34:41
End at: 2018-08-09 09:35:11
Local clock offset: -3.508 ms
Remote clock offset: -0.591 ms

Below is generated by plot.py at 2018-08-09 12:26:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.27 Mbit/s
95th percentile per-packet one-way delay: 110.534 ms
Loss rate: 2.75%
-- Flow 1:
Average throughput: 77.05 Mbit/s
95th percentile per-packet one-way delay: 110.367 ms
Loss rate: 2.62%
-- Flow 2:
Average throughput: 9.62 Mbit/s
95th percentile per-packet one-way delay: 115.973 ms
Loss rate: 3.56%
-- Flow 3:
Average throughput: 8.55 Mbit/s
95th percentile per-packet one-way delay: 115.915 ms
Loss rate: 4.39%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-08-09 09:55:58

End at: 2018-08-09 09:56:28

Local clock offset: -3.02 ms

Remote clock offset: -0.85 ms

Below is generated by plot.py at 2018-08-09 12:27:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.03 Mbit/s

95th percentile per-packet one-way delay: 112.188 ms

Loss rate: 3.46%

-- Flow 1:

Average throughput: 78.71 Mbit/s

95th percentile per-packet one-way delay: 112.172 ms

Loss rate: 3.08%

-- Flow 2:

Average throughput: 8.79 Mbit/s

95th percentile per-packet one-way delay: 110.515 ms

Loss rate: 6.01%

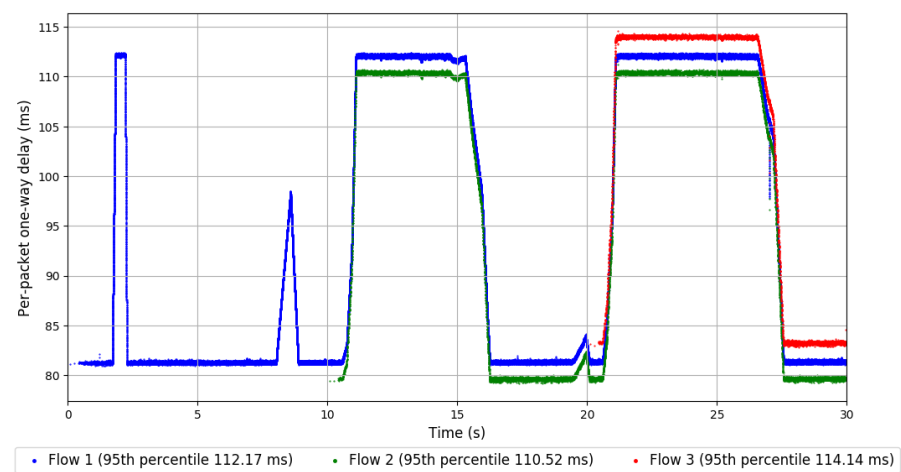
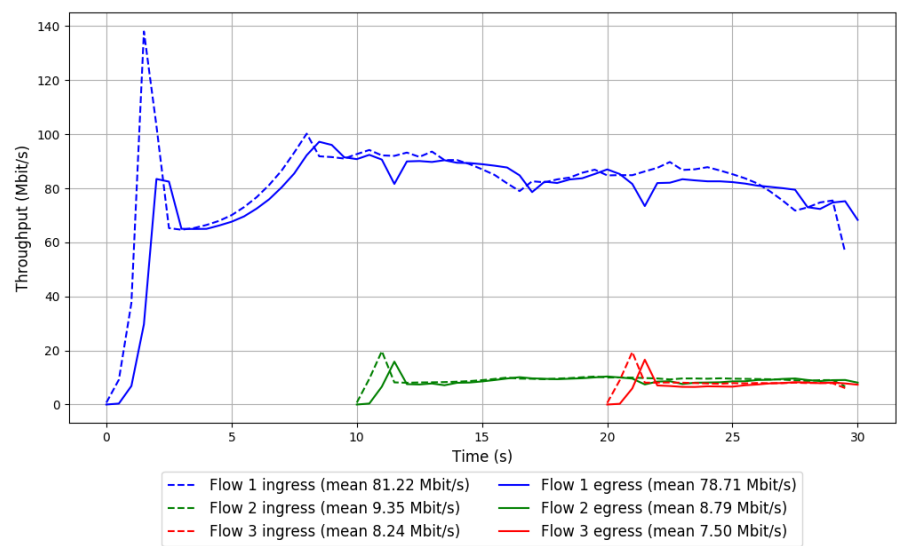
-- Flow 3:

Average throughput: 7.50 Mbit/s

95th percentile per-packet one-way delay: 114.139 ms

Loss rate: 9.02%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-08-09 10:17:09

End at: 2018-08-09 10:17:39

Local clock offset: -2.654 ms

Remote clock offset: 5.221 ms

Below is generated by plot.py at 2018-08-09 12:27:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.33 Mbit/s

95th percentile per-packet one-way delay: 117.958 ms

Loss rate: 3.03%

-- Flow 1:

Average throughput: 79.41 Mbit/s

95th percentile per-packet one-way delay: 117.936 ms

Loss rate: 2.75%

-- Flow 2:

Average throughput: 8.21 Mbit/s

95th percentile per-packet one-way delay: 116.492 ms

Loss rate: 4.95%

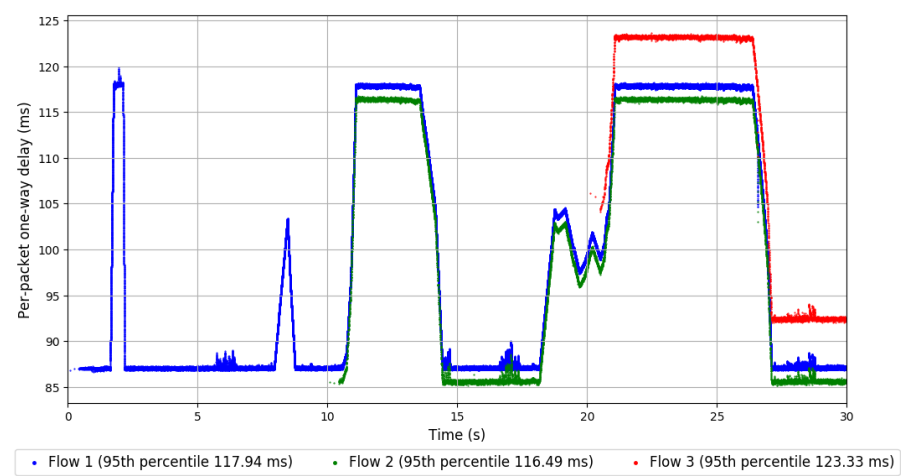
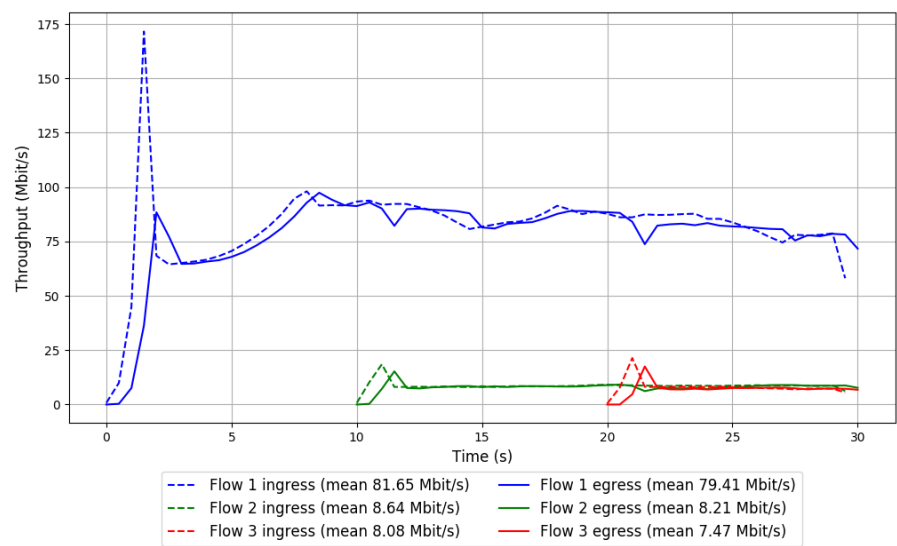
-- Flow 3:

Average throughput: 7.47 Mbit/s

95th percentile per-packet one-way delay: 123.329 ms

Loss rate: 7.63%

Run 5: Report of PCC-Allegro — Data Link

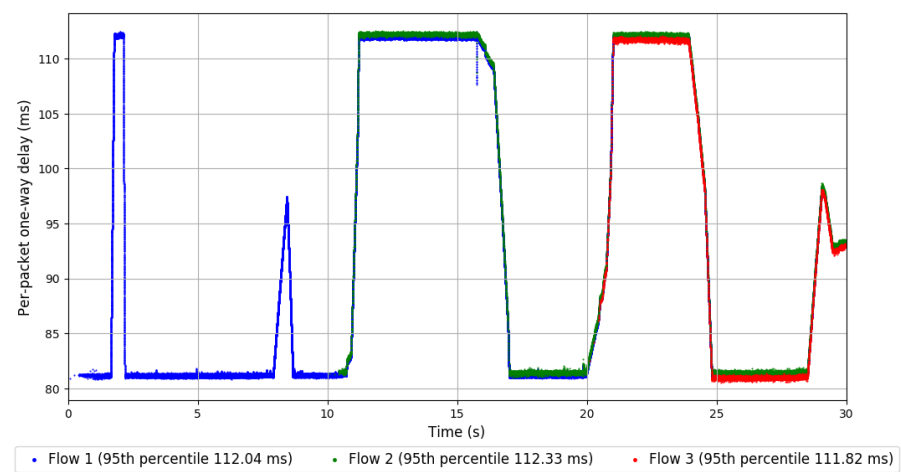
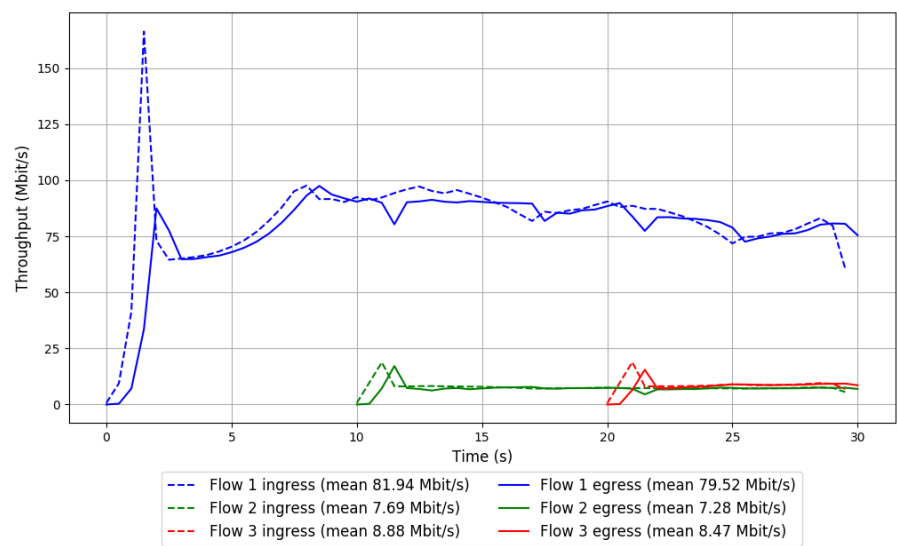


Run 6: Statistics of PCC-Allegro

Start at: 2018-08-09 10:38:20
End at: 2018-08-09 10:38:50
Local clock offset: -2.648 ms
Remote clock offset: -0.011 ms

Below is generated by plot.py at 2018-08-09 12:27:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.16 Mbit/s
95th percentile per-packet one-way delay: 112.065 ms
Loss rate: 3.10%
-- Flow 1:
Average throughput: 79.52 Mbit/s
95th percentile per-packet one-way delay: 112.042 ms
Loss rate: 2.91%
-- Flow 2:
Average throughput: 7.28 Mbit/s
95th percentile per-packet one-way delay: 112.326 ms
Loss rate: 5.26%
-- Flow 3:
Average throughput: 8.47 Mbit/s
95th percentile per-packet one-way delay: 111.817 ms
Loss rate: 4.55%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-08-09 10:59:33

End at: 2018-08-09 11:00:03

Local clock offset: -2.443 ms

Remote clock offset: 7.106 ms

Below is generated by plot.py at 2018-08-09 12:27:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.78 Mbit/s

95th percentile per-packet one-way delay: 118.740 ms

Loss rate: 2.78%

-- Flow 1:

Average throughput: 78.85 Mbit/s

95th percentile per-packet one-way delay: 118.748 ms

Loss rate: 2.60%

-- Flow 2:

Average throughput: 7.81 Mbit/s

95th percentile per-packet one-way delay: 116.820 ms

Loss rate: 4.20%

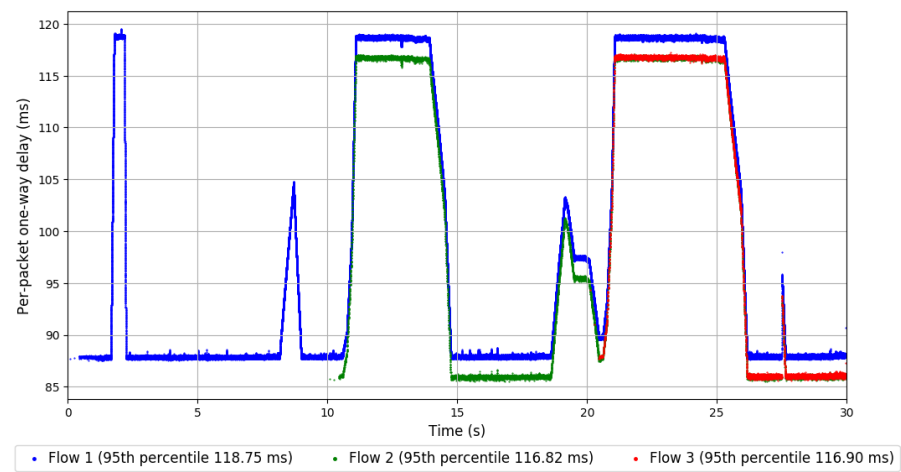
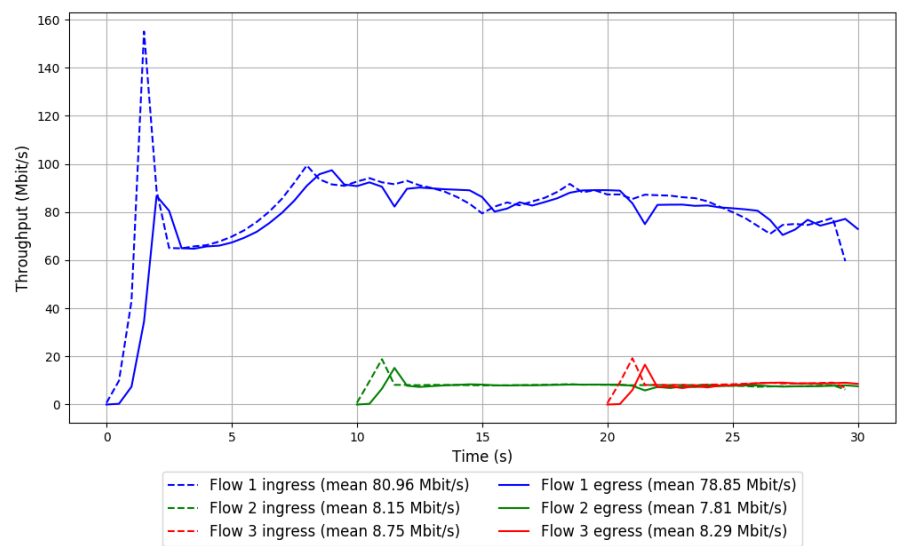
-- Flow 3:

Average throughput: 8.29 Mbit/s

95th percentile per-packet one-way delay: 116.902 ms

Loss rate: 5.31%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-08-09 11:20:47

End at: 2018-08-09 11:21:17

Local clock offset: -2.207 ms

Remote clock offset: 0.957 ms

Below is generated by plot.py at 2018-08-09 12:27:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.99 Mbit/s

95th percentile per-packet one-way delay: 111.920 ms

Loss rate: 2.80%

-- Flow 1:

Average throughput: 78.64 Mbit/s

95th percentile per-packet one-way delay: 111.929 ms

Loss rate: 2.57%

-- Flow 2:

Average throughput: 8.58 Mbit/s

95th percentile per-packet one-way delay: 110.269 ms

Loss rate: 4.20%

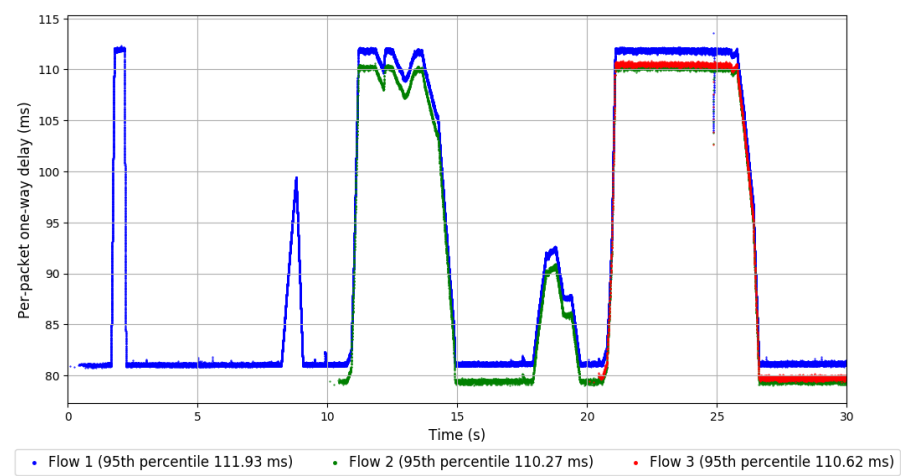
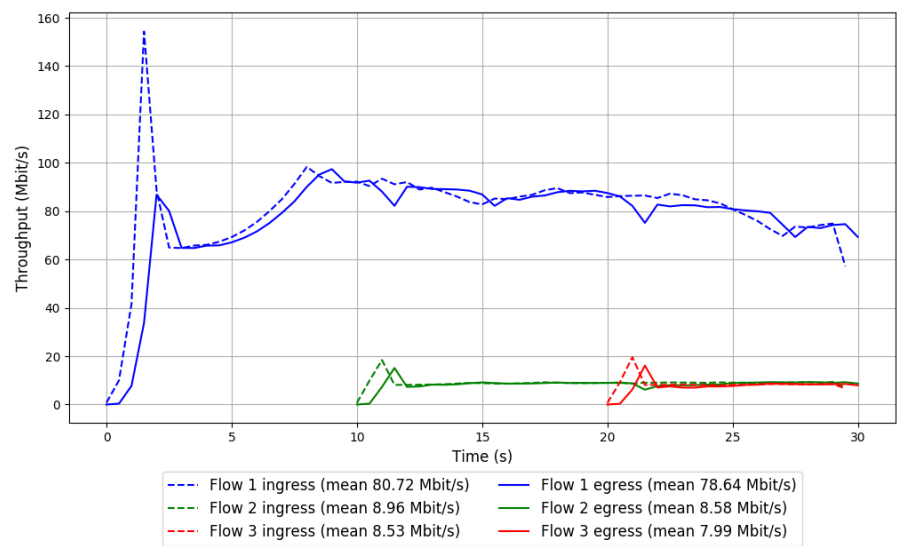
-- Flow 3:

Average throughput: 7.99 Mbit/s

95th percentile per-packet one-way delay: 110.623 ms

Loss rate: 6.30%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-08-09 11:42:05

End at: 2018-08-09 11:42:35

Local clock offset: -2.158 ms

Remote clock offset: 1.566 ms

Below is generated by plot.py at 2018-08-09 12:27:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.47 Mbit/s

95th percentile per-packet one-way delay: 118.340 ms

Loss rate: 2.32%

-- Flow 1:

Average throughput: 79.45 Mbit/s

95th percentile per-packet one-way delay: 118.347 ms

Loss rate: 2.23%

-- Flow 2:

Average throughput: 8.49 Mbit/s

95th percentile per-packet one-way delay: 113.025 ms

Loss rate: 3.16%

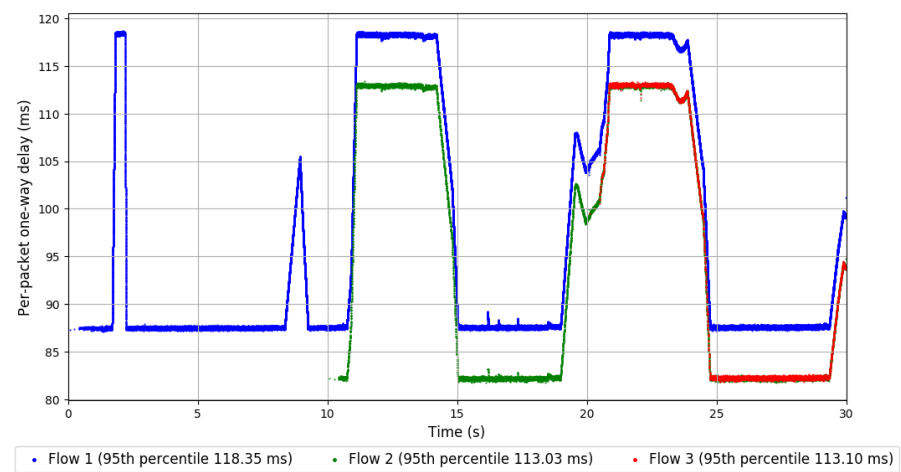
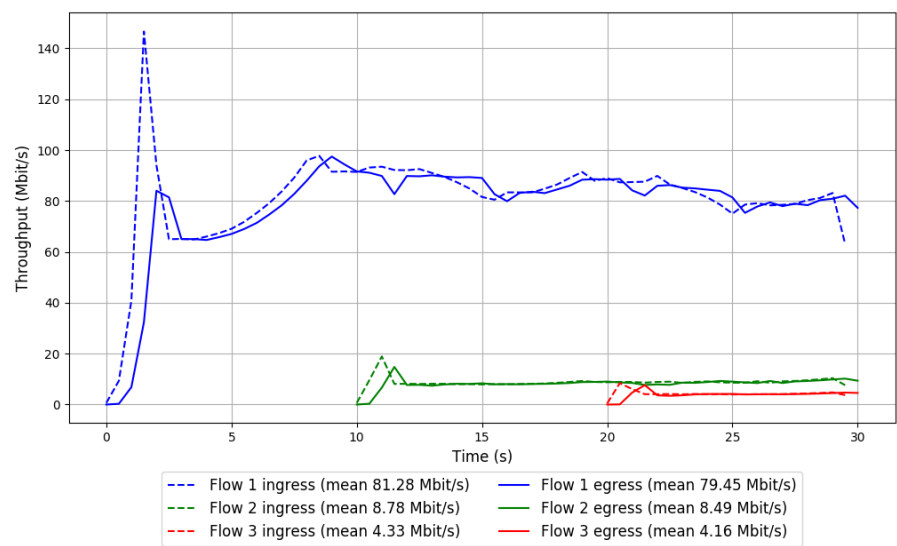
-- Flow 3:

Average throughput: 4.16 Mbit/s

95th percentile per-packet one-way delay: 113.101 ms

Loss rate: 3.79%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-08-09 12:03:17

End at: 2018-08-09 12:03:47

Local clock offset: -2.389 ms

Remote clock offset: 5.228 ms

Below is generated by plot.py at 2018-08-09 12:27:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.50 Mbit/s

95th percentile per-packet one-way delay: 117.617 ms

Loss rate: 3.92%

-- Flow 1:

Average throughput: 75.82 Mbit/s

95th percentile per-packet one-way delay: 117.538 ms

Loss rate: 3.48%

-- Flow 2:

Average throughput: 13.61 Mbit/s

95th percentile per-packet one-way delay: 118.873 ms

Loss rate: 7.41%

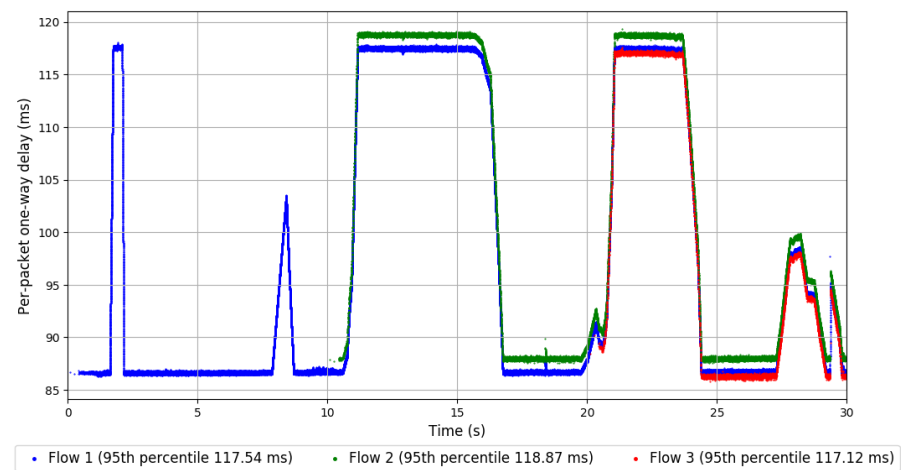
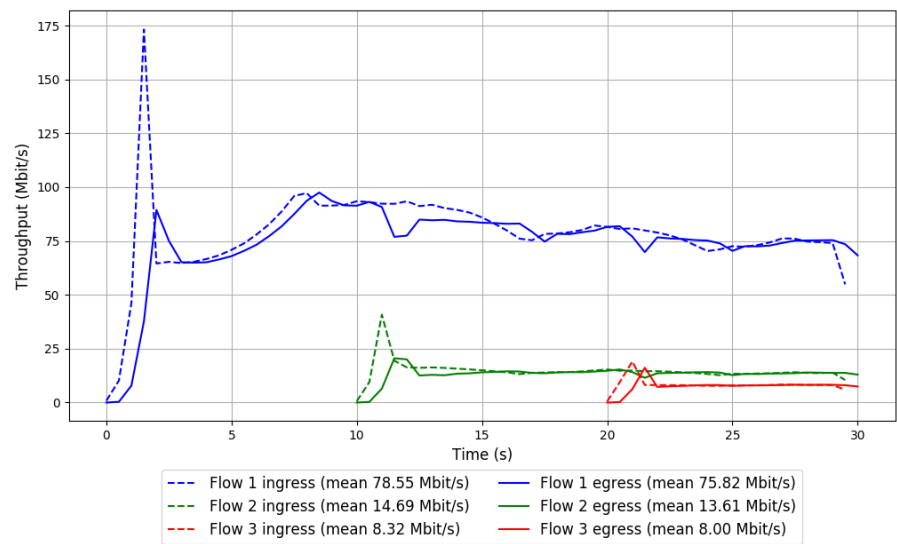
-- Flow 3:

Average throughput: 8.00 Mbit/s

95th percentile per-packet one-way delay: 117.123 ms

Loss rate: 3.98%

Run 10: Report of PCC-Allegro — Data Link

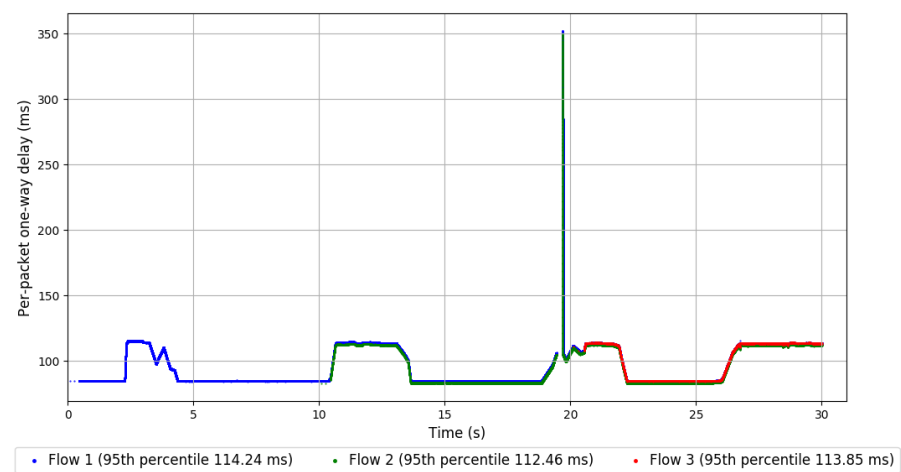
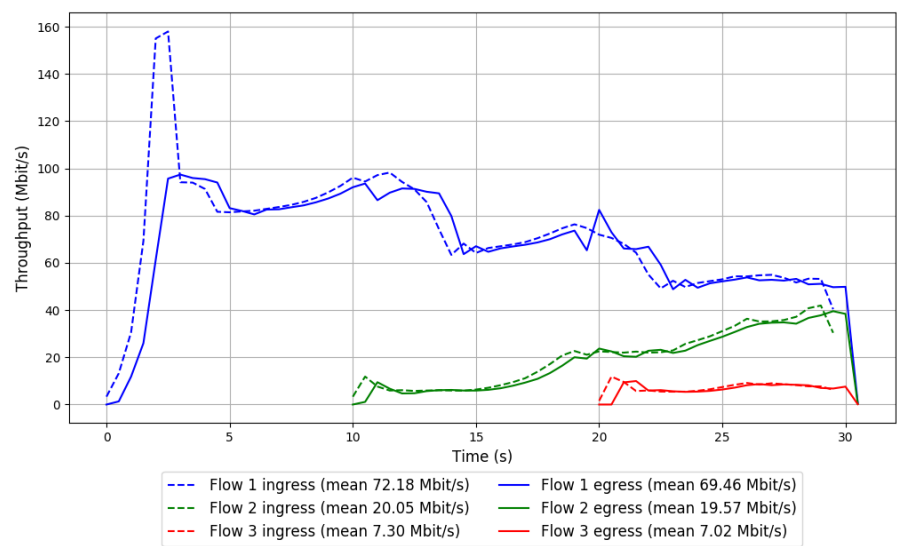


```
Run 1: Statistics of PCC-Expr

Start at: 2018-08-09 08:43:36
End at: 2018-08-09 08:44:06
Local clock offset: -8.259 ms
Remote clock offset: 5.132 ms

# Below is generated by plot.py at 2018-08-09 12:28:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.80 Mbit/s
95th percentile per-packet one-way delay: 114.132 ms
Loss rate: 3.46%
-- Flow 1:
Average throughput: 69.46 Mbit/s
95th percentile per-packet one-way delay: 114.239 ms
Loss rate: 3.68%
-- Flow 2:
Average throughput: 19.57 Mbit/s
95th percentile per-packet one-way delay: 112.462 ms
Loss rate: 2.23%
-- Flow 3:
Average throughput: 7.02 Mbit/s
95th percentile per-packet one-way delay: 113.854 ms
Loss rate: 3.81%
```


Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2018-08-09 09:04:47

End at: 2018-08-09 09:05:17

Local clock offset: -8.224 ms

Remote clock offset: 6.099 ms

Below is generated by plot.py at 2018-08-09 12:28:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.91 Mbit/s

95th percentile per-packet one-way delay: 121.248 ms

Loss rate: 5.29%

-- Flow 1:

Average throughput: 74.32 Mbit/s

95th percentile per-packet one-way delay: 116.731 ms

Loss rate: 4.95%

-- Flow 2:

Average throughput: 14.66 Mbit/s

95th percentile per-packet one-way delay: 121.686 ms

Loss rate: 6.41%

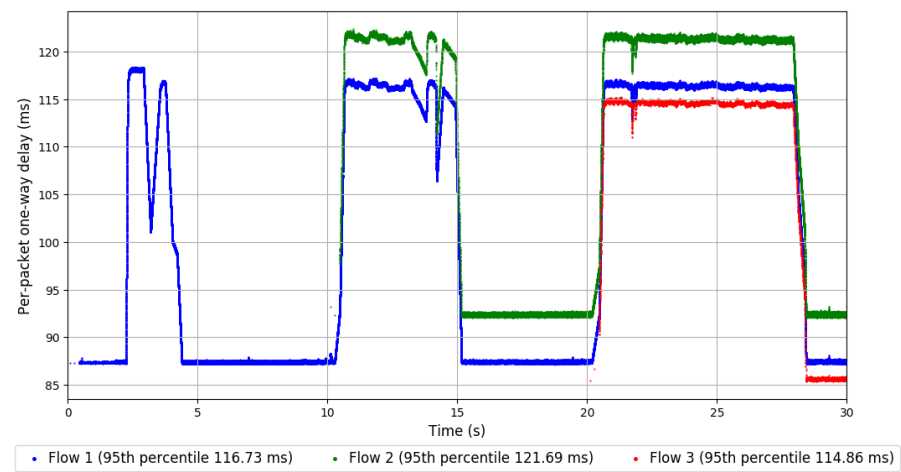
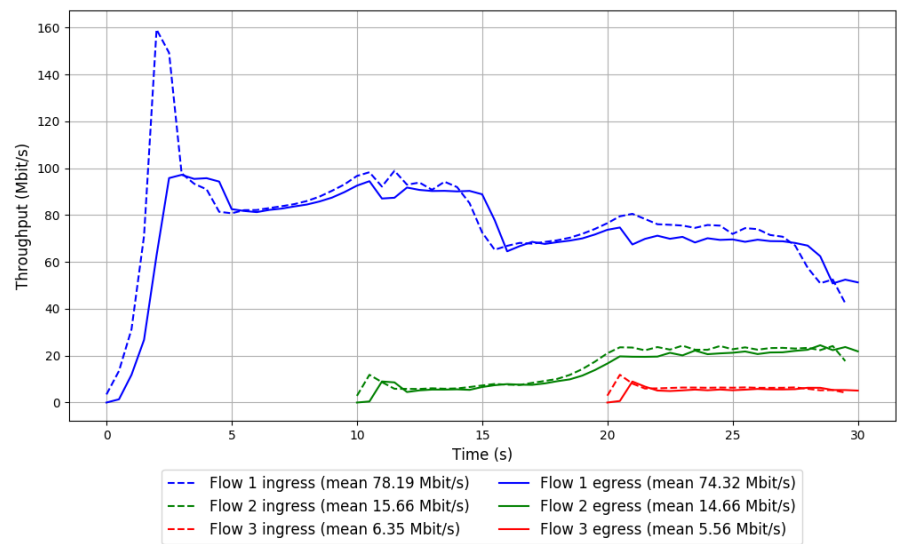
-- Flow 3:

Average throughput: 5.56 Mbit/s

95th percentile per-packet one-way delay: 114.860 ms

Loss rate: 12.47%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-08-09 09:26:01

End at: 2018-08-09 09:26:31

Local clock offset: -4.725 ms

Remote clock offset: 0.635 ms

Below is generated by plot.py at 2018-08-09 12:28:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.83 Mbit/s

95th percentile per-packet one-way delay: 111.737 ms

Loss rate: 3.57%

-- Flow 1:

Average throughput: 76.97 Mbit/s

95th percentile per-packet one-way delay: 111.755 ms

Loss rate: 3.54%

-- Flow 2:

Average throughput: 11.07 Mbit/s

95th percentile per-packet one-way delay: 111.567 ms

Loss rate: 3.82%

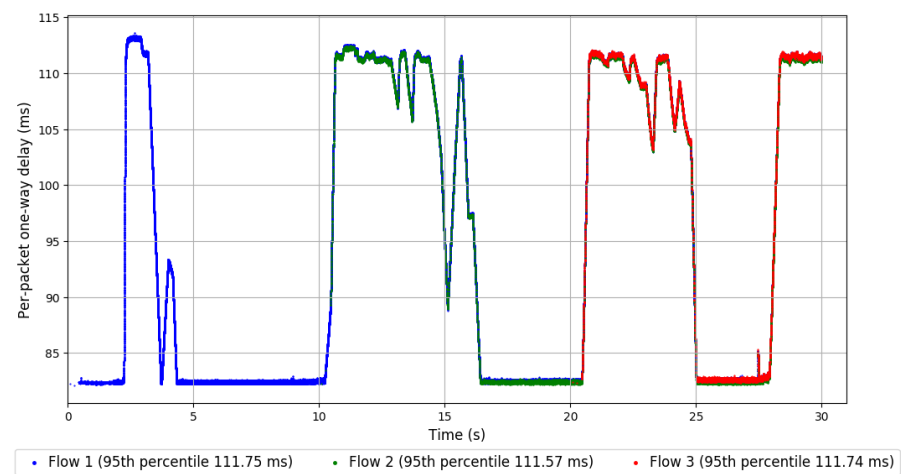
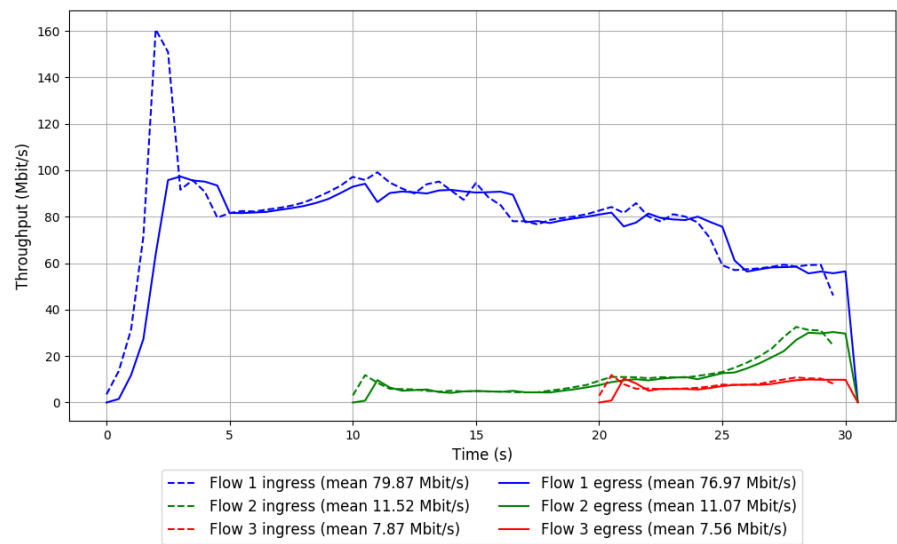
-- Flow 3:

Average throughput: 7.56 Mbit/s

95th percentile per-packet one-way delay: 111.741 ms

Loss rate: 3.59%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-08-09 09:47:18

End at: 2018-08-09 09:47:48

Local clock offset: -2.693 ms

Remote clock offset: 5.121 ms

Below is generated by plot.py at 2018-08-09 12:28:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.34 Mbit/s

95th percentile per-packet one-way delay: 116.460 ms

Loss rate: 4.60%

-- Flow 1:

Average throughput: 75.25 Mbit/s

95th percentile per-packet one-way delay: 116.398 ms

Loss rate: 4.39%

-- Flow 2:

Average throughput: 12.22 Mbit/s

95th percentile per-packet one-way delay: 116.512 ms

Loss rate: 5.49%

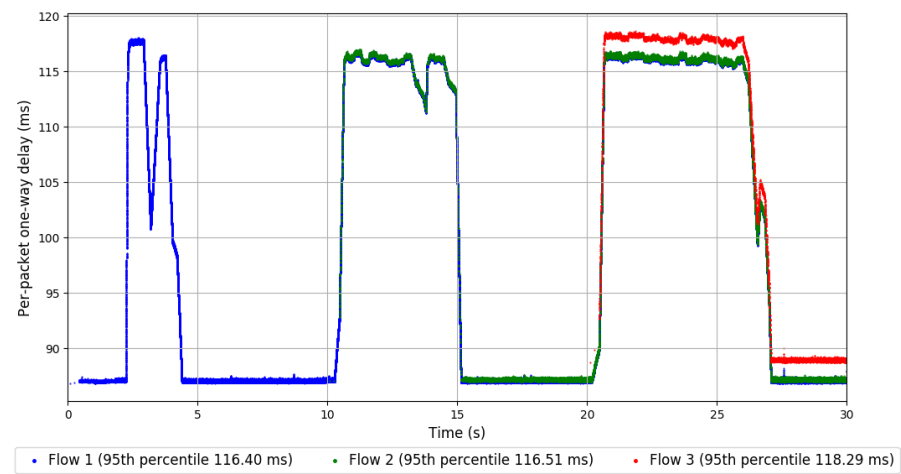
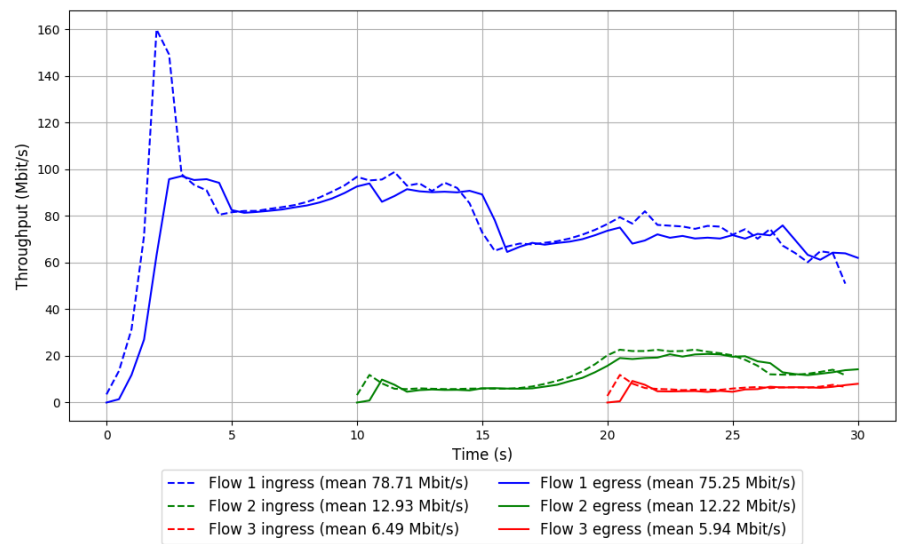
-- Flow 3:

Average throughput: 5.94 Mbit/s

95th percentile per-packet one-way delay: 118.287 ms

Loss rate: 8.50%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-08-09 10:08:26

End at: 2018-08-09 10:08:56

Local clock offset: -2.794 ms

Remote clock offset: 0.186 ms

Below is generated by plot.py at 2018-08-09 12:28:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.46 Mbit/s

95th percentile per-packet one-way delay: 111.516 ms

Loss rate: 3.59%

-- Flow 1:

Average throughput: 70.75 Mbit/s

95th percentile per-packet one-way delay: 111.583 ms

Loss rate: 3.85%

-- Flow 2:

Average throughput: 17.12 Mbit/s

95th percentile per-packet one-way delay: 110.266 ms

Loss rate: 2.27%

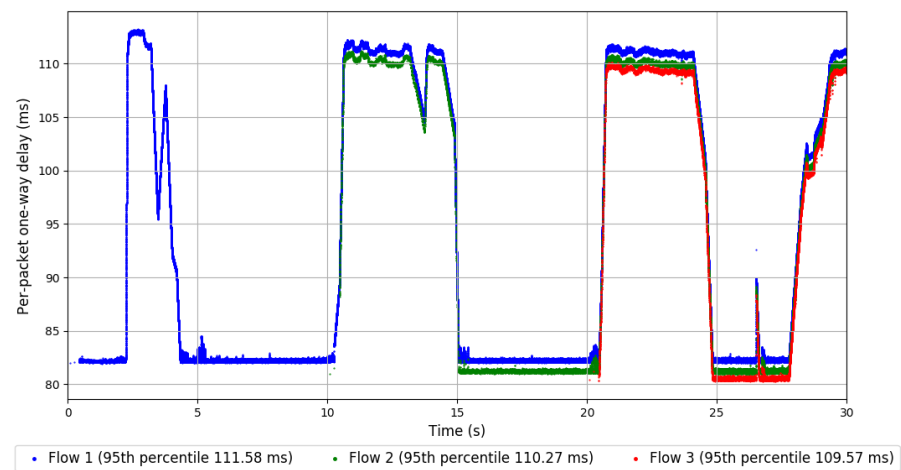
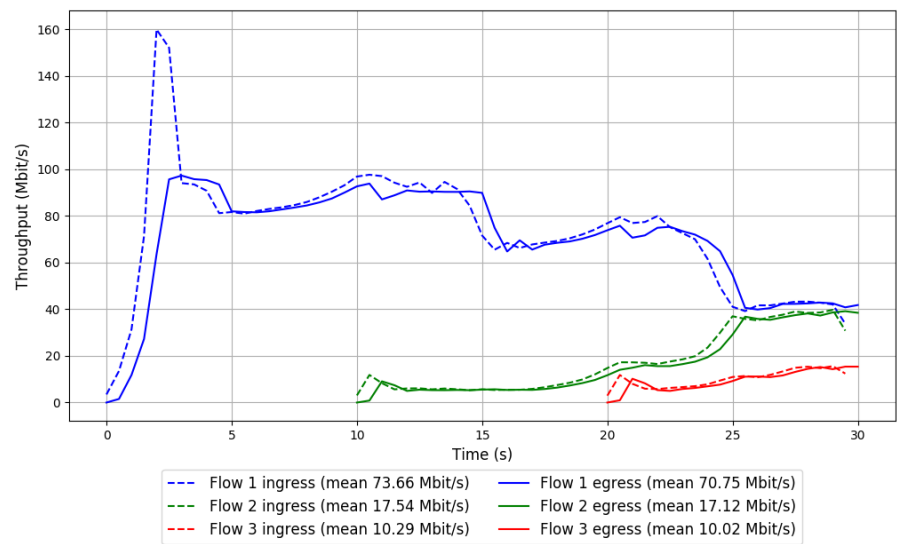
-- Flow 3:

Average throughput: 10.02 Mbit/s

95th percentile per-packet one-way delay: 109.573 ms

Loss rate: 2.32%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-08-09 10:29:38

End at: 2018-08-09 10:30:08

Local clock offset: -2.754 ms

Remote clock offset: 4.004 ms

Below is generated by plot.py at 2018-08-09 12:28:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.97 Mbit/s

95th percentile per-packet one-way delay: 118.697 ms

Loss rate: 3.30%

-- Flow 1:

Average throughput: 79.37 Mbit/s

95th percentile per-packet one-way delay: 118.669 ms

Loss rate: 3.40%

-- Flow 2:

Average throughput: 6.86 Mbit/s

95th percentile per-packet one-way delay: 120.071 ms

Loss rate: 3.47%

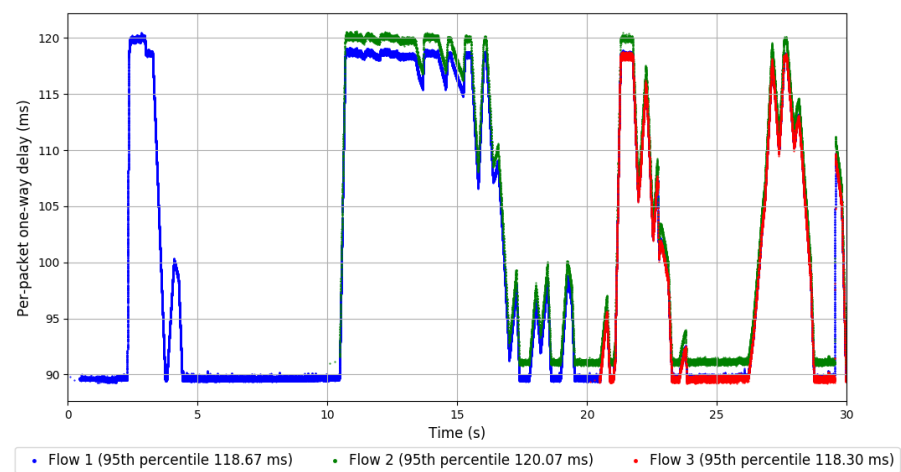
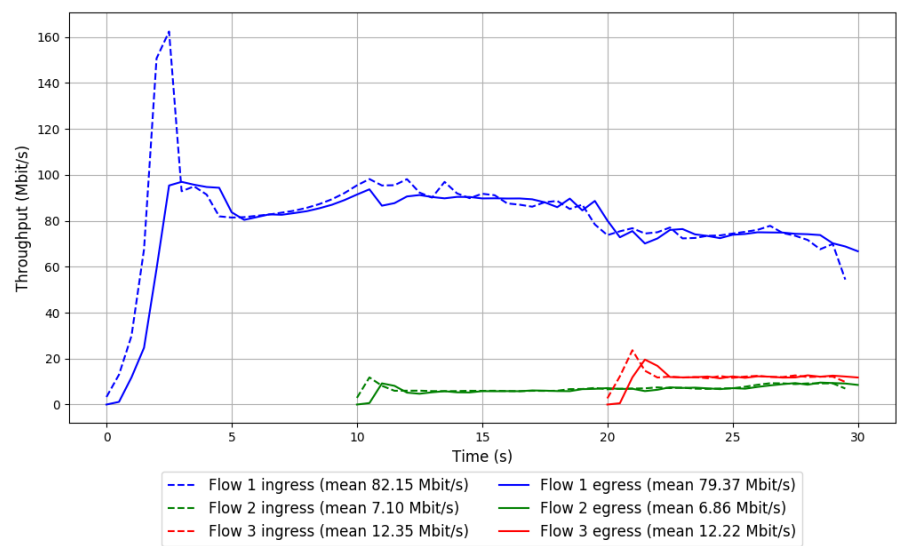
-- Flow 3:

Average throughput: 12.22 Mbit/s

95th percentile per-packet one-way delay: 118.302 ms

Loss rate: 1.07%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-08-09 10:50:52

End at: 2018-08-09 10:51:22

Local clock offset: -2.551 ms

Remote clock offset: 1.678 ms

Below is generated by plot.py at 2018-08-09 12:29:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.83 Mbit/s

95th percentile per-packet one-way delay: 109.186 ms

Loss rate: 3.30%

-- Flow 1:

Average throughput: 80.37 Mbit/s

95th percentile per-packet one-way delay: 108.915 ms

Loss rate: 3.31%

-- Flow 2:

Average throughput: 7.07 Mbit/s

95th percentile per-packet one-way delay: 110.728 ms

Loss rate: 3.65%

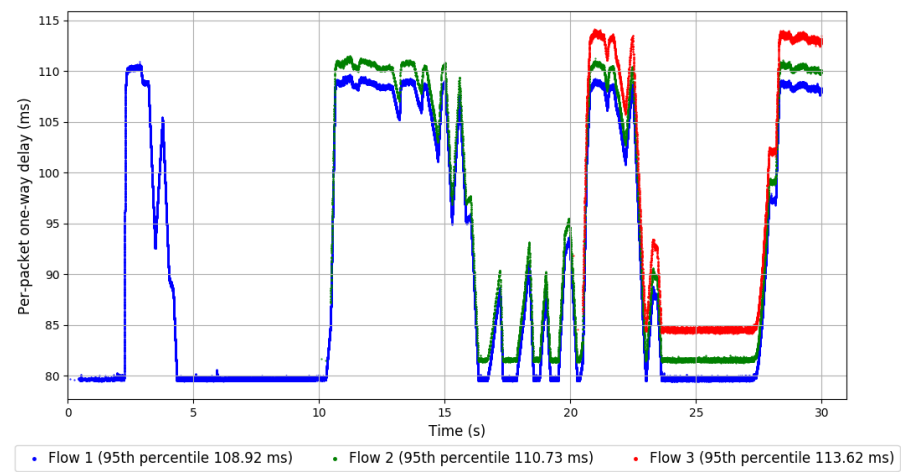
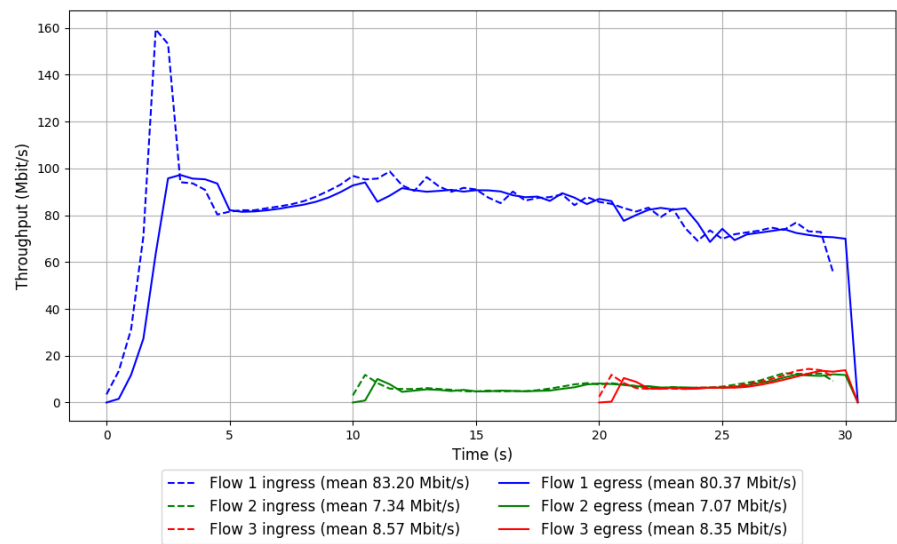
-- Flow 3:

Average throughput: 8.35 Mbit/s

95th percentile per-packet one-way delay: 113.623 ms

Loss rate: 2.41%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-08-09 11:12:03

End at: 2018-08-09 11:12:33

Local clock offset: -2.141 ms

Remote clock offset: 7.997 ms

Below is generated by plot.py at 2018-08-09 12:29:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.11 Mbit/s

95th percentile per-packet one-way delay: 117.325 ms

Loss rate: 4.20%

-- Flow 1:

Average throughput: 75.33 Mbit/s

95th percentile per-packet one-way delay: 117.318 ms

Loss rate: 4.08%

-- Flow 2:

Average throughput: 11.22 Mbit/s

95th percentile per-packet one-way delay: 115.072 ms

Loss rate: 4.53%

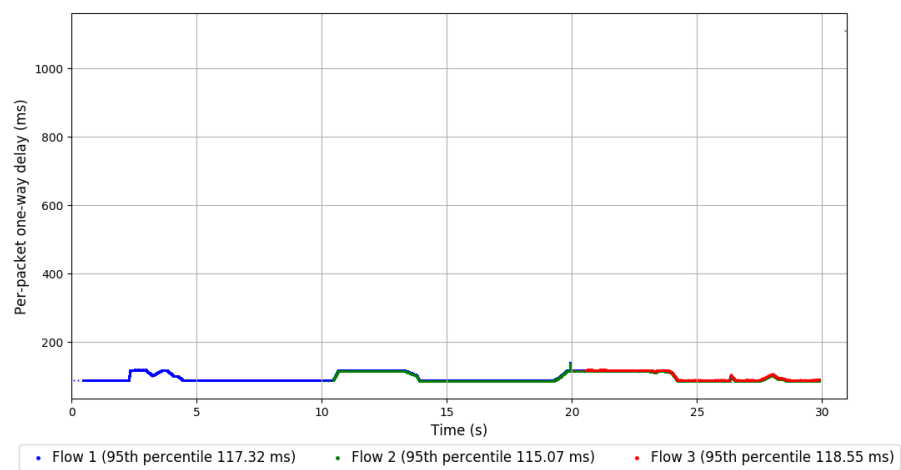
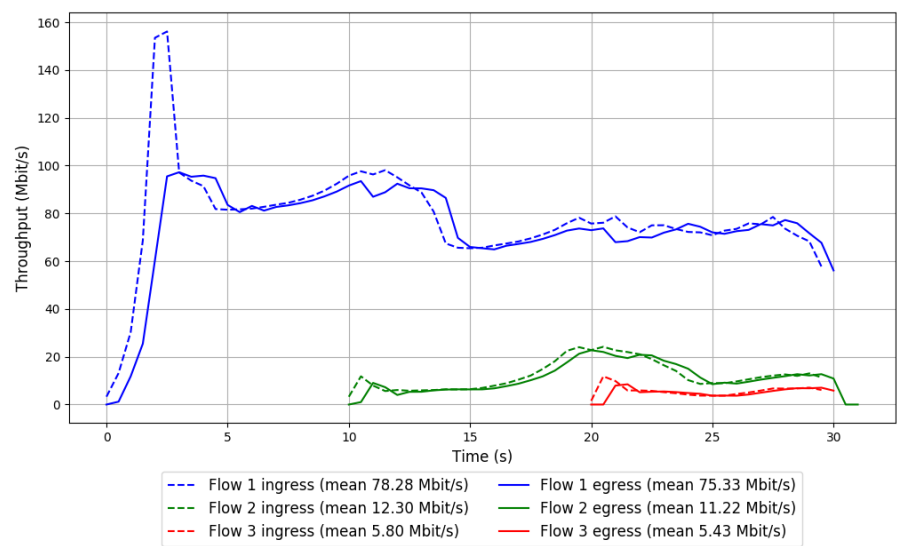
-- Flow 3:

Average throughput: 5.43 Mbit/s

95th percentile per-packet one-way delay: 118.550 ms

Loss rate: 7.62%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-08-09 11:33:21

End at: 2018-08-09 11:33:51

Local clock offset: -2.218 ms

Remote clock offset: 4.251 ms

Below is generated by plot.py at 2018-08-09 12:30:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.12 Mbit/s

95th percentile per-packet one-way delay: 117.255 ms

Loss rate: 2.46%

-- Flow 1:

Average throughput: 76.06 Mbit/s

95th percentile per-packet one-way delay: 117.313 ms

Loss rate: 2.70%

-- Flow 2:

Average throughput: 10.84 Mbit/s

95th percentile per-packet one-way delay: 114.024 ms

Loss rate: 0.44%

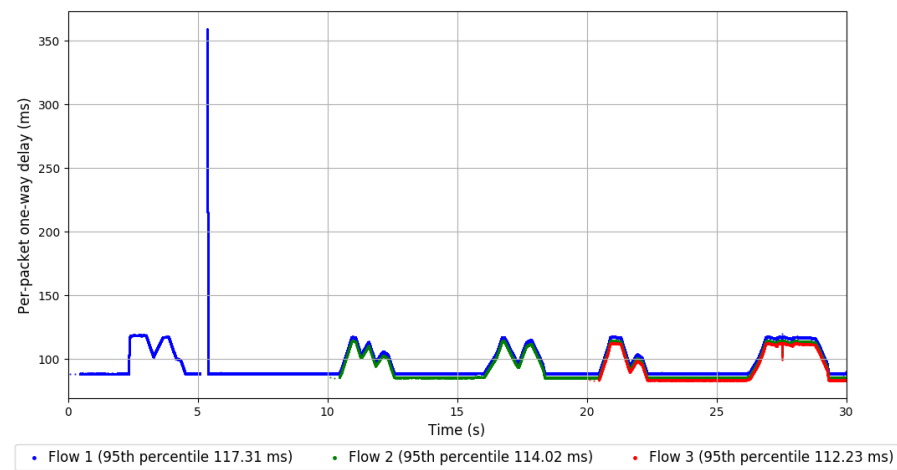
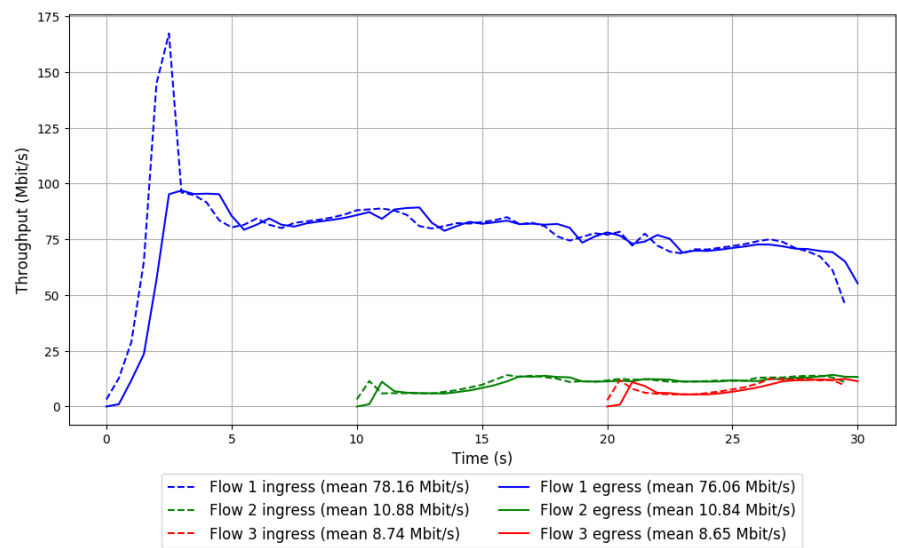
-- Flow 3:

Average throughput: 8.65 Mbit/s

95th percentile per-packet one-way delay: 112.234 ms

Loss rate: 1.03%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-08-09 11:54:35

End at: 2018-08-09 11:55:05

Local clock offset: -2.275 ms

Remote clock offset: 5.096 ms

Below is generated by plot.py at 2018-08-09 12:30:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.48 Mbit/s

95th percentile per-packet one-way delay: 118.559 ms

Loss rate: 4.49%

-- Flow 1:

Average throughput: 73.63 Mbit/s

95th percentile per-packet one-way delay: 118.568 ms

Loss rate: 4.45%

-- Flow 2:

Average throughput: 13.05 Mbit/s

95th percentile per-packet one-way delay: 115.247 ms

Loss rate: 4.14%

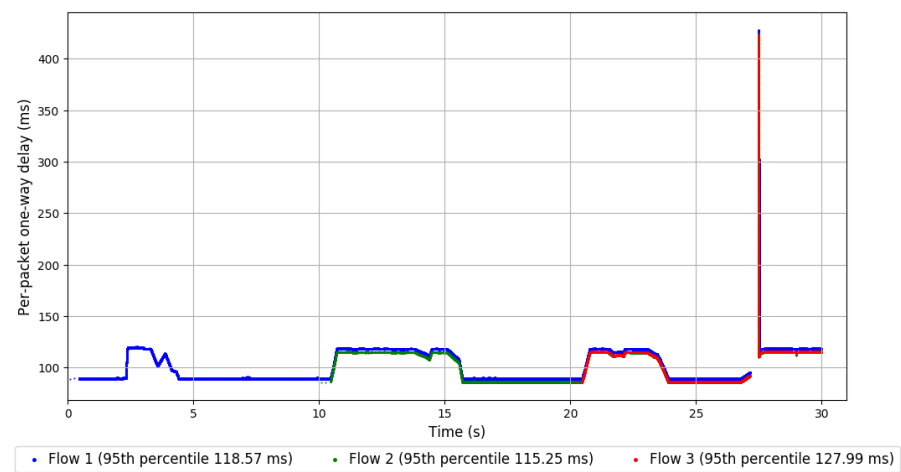
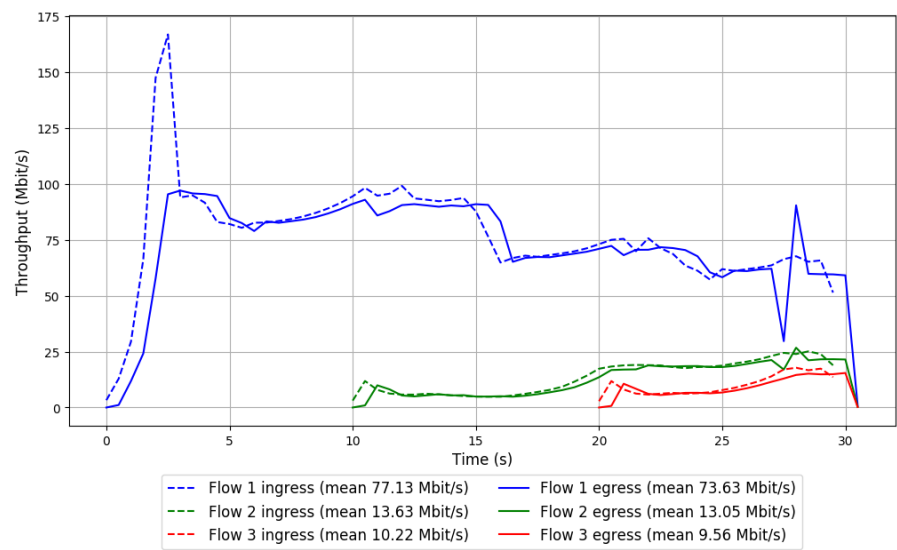
-- Flow 3:

Average throughput: 9.56 Mbit/s

95th percentile per-packet one-way delay: 127.987 ms

Loss rate: 6.20%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-08-09 08:46:09

End at: 2018-08-09 08:46:39

Local clock offset: -8.377 ms

Remote clock offset: 2.381 ms

Below is generated by plot.py at 2018-08-09 12:30:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.13 Mbit/s

95th percentile per-packet one-way delay: 106.334 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 52.40 Mbit/s

95th percentile per-packet one-way delay: 106.475 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 16.24 Mbit/s

95th percentile per-packet one-way delay: 106.441 ms

Loss rate: 0.32%

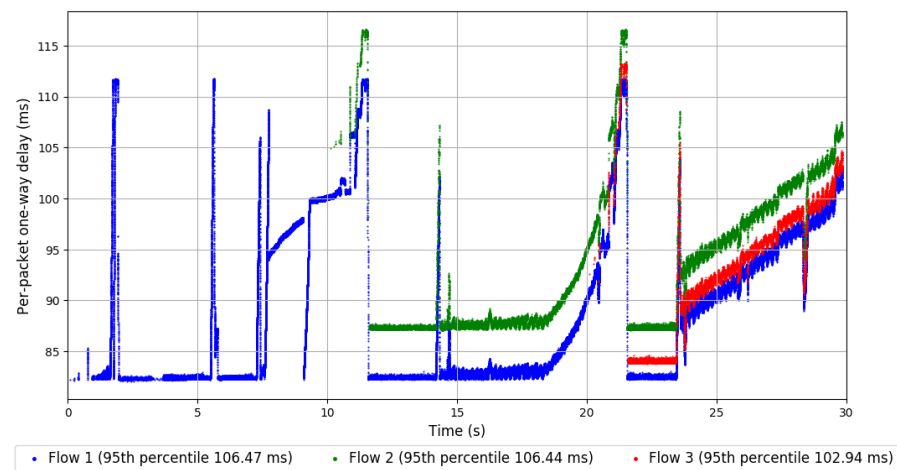
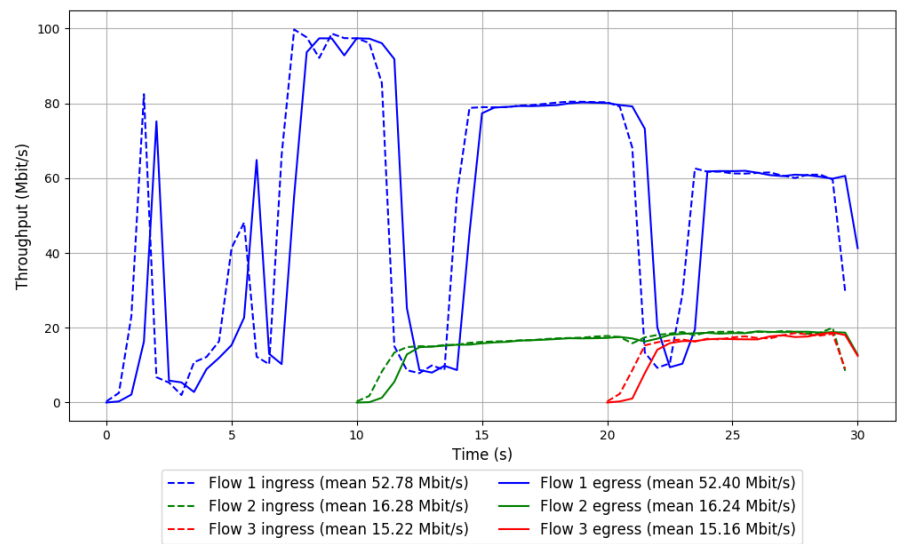
-- Flow 3:

Average throughput: 15.16 Mbit/s

95th percentile per-packet one-way delay: 102.940 ms

Loss rate: 0.29%

Run 1: Report of QUIC Cubic — Data Link

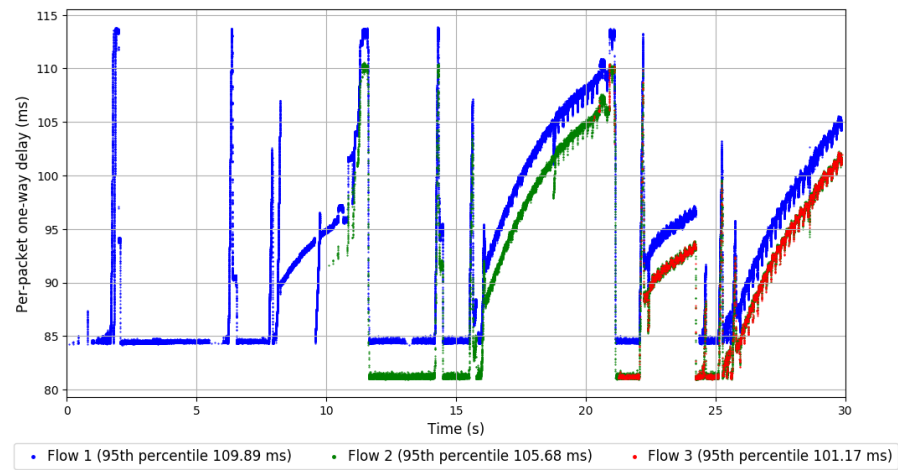
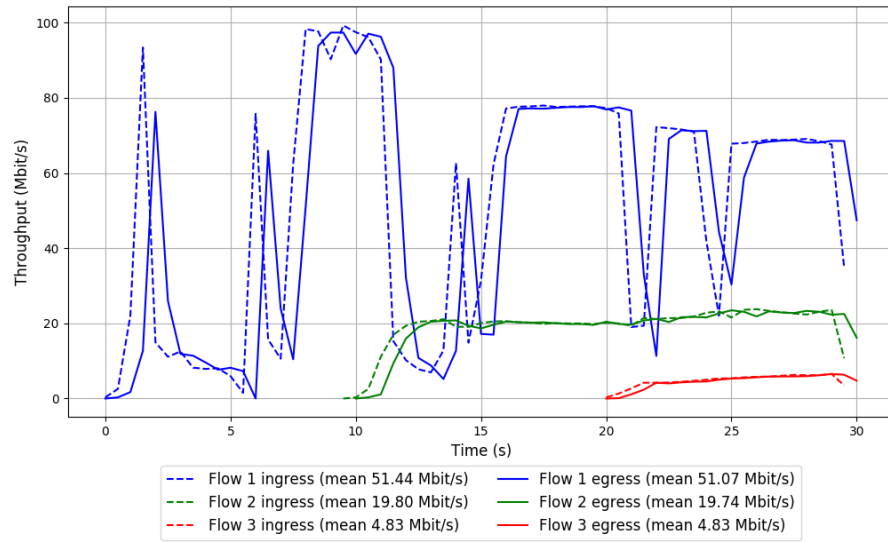


Run 2: Statistics of QUIC Cubic

Start at: 2018-08-09 09:07:21
End at: 2018-08-09 09:07:51
Local clock offset: -8.256 ms
Remote clock offset: -0.026 ms

Below is generated by plot.py at 2018-08-09 12:30:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 65.75 Mbit/s
95th percentile per-packet one-way delay: 109.269 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 51.07 Mbit/s
95th percentile per-packet one-way delay: 109.888 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 19.74 Mbit/s
95th percentile per-packet one-way delay: 105.682 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 4.83 Mbit/s
95th percentile per-packet one-way delay: 101.174 ms
Loss rate: 0.17%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-08-09 09:28:35

End at: 2018-08-09 09:29:05

Local clock offset: -4.271 ms

Remote clock offset: 0.549 ms

Below is generated by plot.py at 2018-08-09 12:30:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 62.24 Mbit/s

95th percentile per-packet one-way delay: 106.899 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 48.65 Mbit/s

95th percentile per-packet one-way delay: 108.622 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 13.24 Mbit/s

95th percentile per-packet one-way delay: 100.649 ms

Loss rate: 0.38%

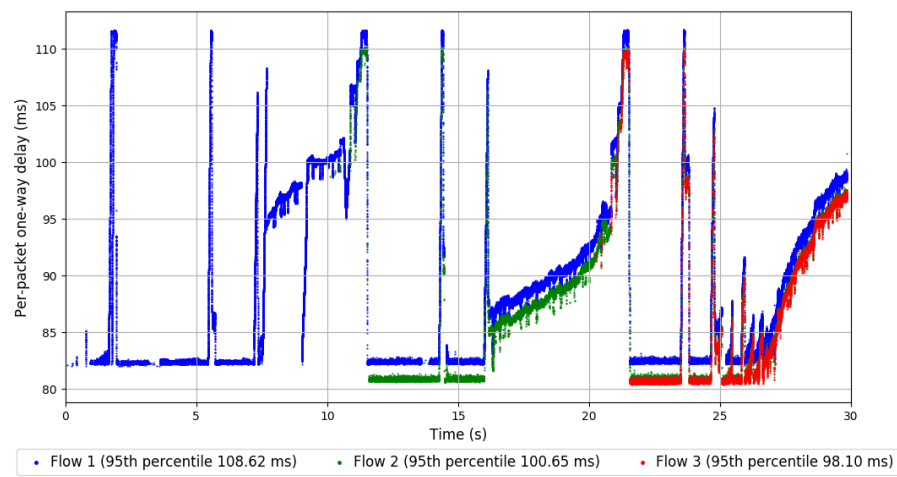
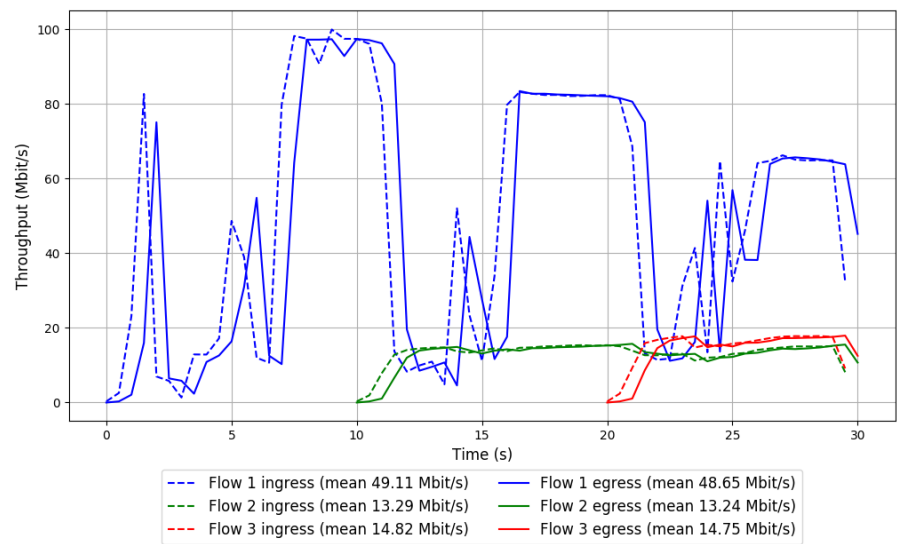
-- Flow 3:

Average throughput: 14.75 Mbit/s

95th percentile per-packet one-way delay: 98.103 ms

Loss rate: 0.42%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-08-09 09:49:52

End at: 2018-08-09 09:50:22

Local clock offset: -2.828 ms

Remote clock offset: 4.173 ms

Below is generated by plot.py at 2018-08-09 12:30:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 61.05 Mbit/s

95th percentile per-packet one-way delay: 112.844 ms

Loss rate: 1.07%

-- Flow 1:

Average throughput: 39.35 Mbit/s

95th percentile per-packet one-way delay: 112.147 ms

Loss rate: 1.27%

-- Flow 2:

Average throughput: 19.59 Mbit/s

95th percentile per-packet one-way delay: 114.897 ms

Loss rate: 0.57%

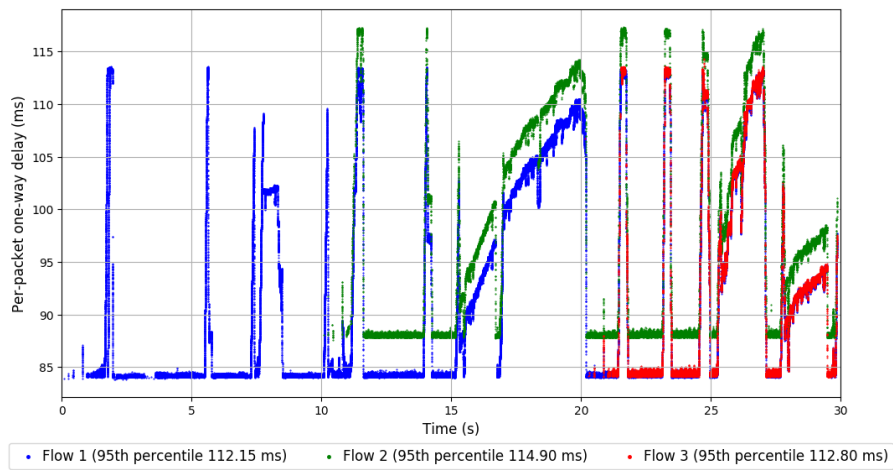
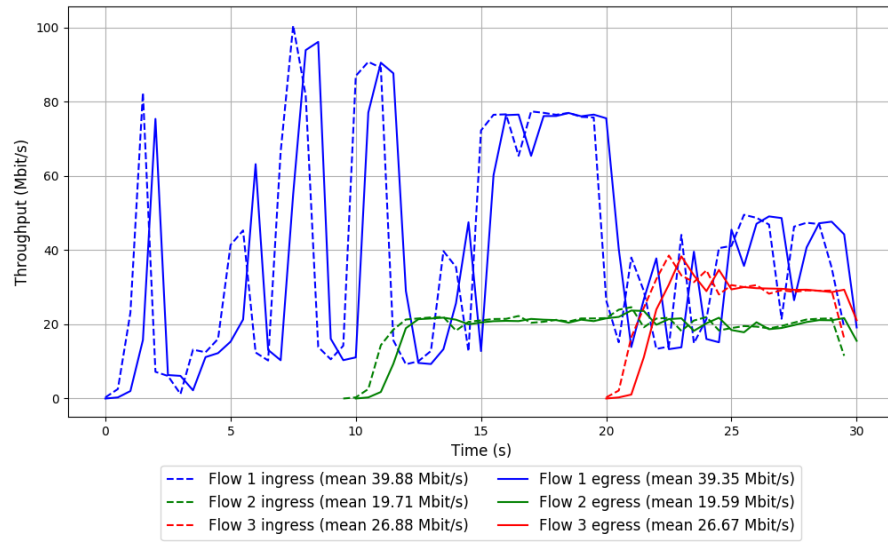
-- Flow 3:

Average throughput: 26.67 Mbit/s

95th percentile per-packet one-way delay: 112.800 ms

Loss rate: 0.89%

Run 4: Report of QUIC Cubic — Data Link

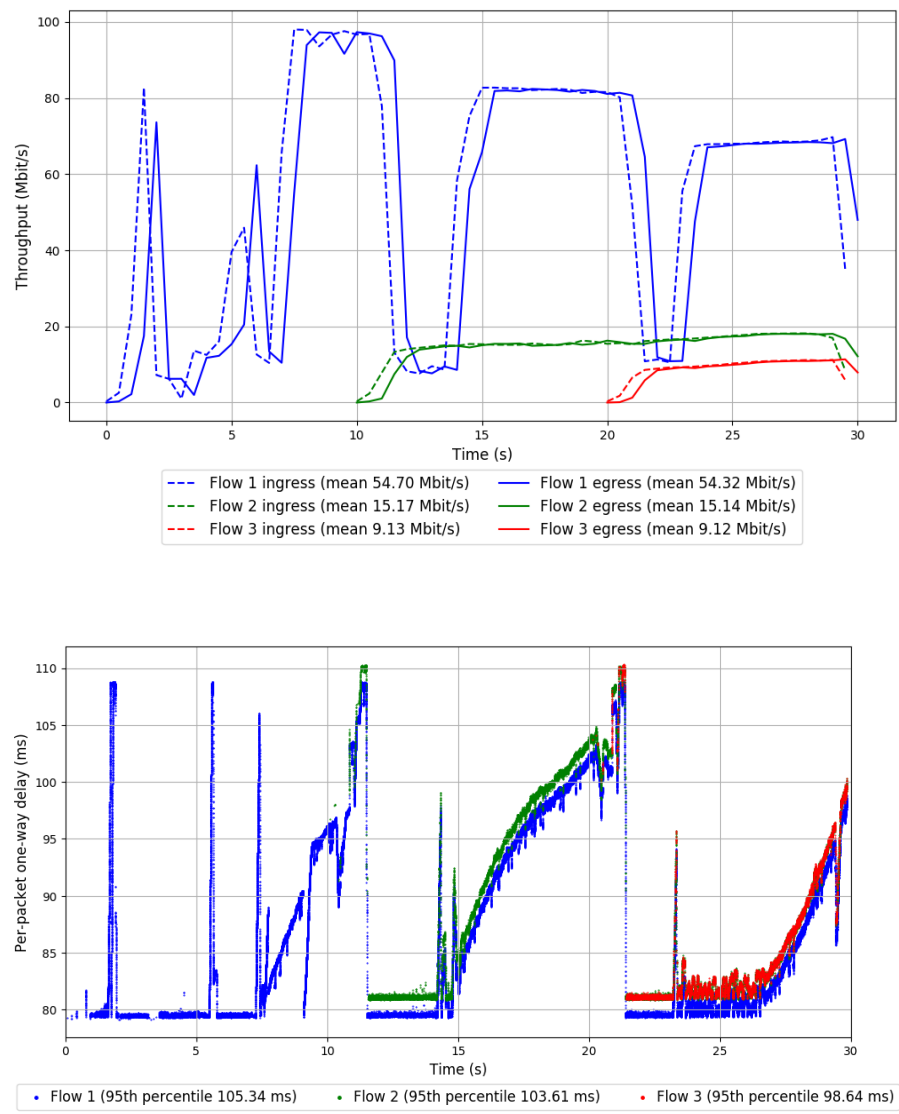


Run 5: Statistics of QUIC Cubic

Start at: 2018-08-09 10:11:01
End at: 2018-08-09 10:11:31
Local clock offset: -2.729 ms
Remote clock offset: -0.858 ms

Below is generated by plot.py at 2018-08-09 12:30:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 67.34 Mbit/s
95th percentile per-packet one-way delay: 104.076 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 54.32 Mbit/s
95th percentile per-packet one-way delay: 105.343 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 15.14 Mbit/s
95th percentile per-packet one-way delay: 103.611 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 9.12 Mbit/s
95th percentile per-packet one-way delay: 98.638 ms
Loss rate: 0.13%

Run 5: Report of QUIC Cubic — Data Link

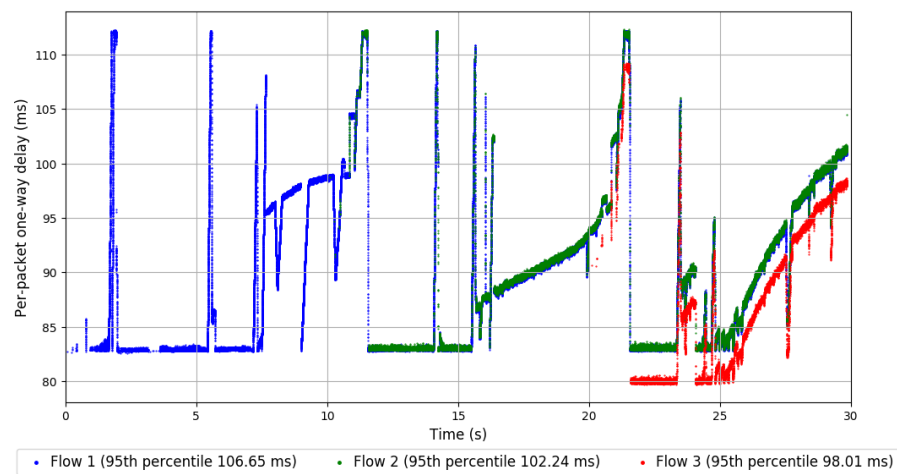
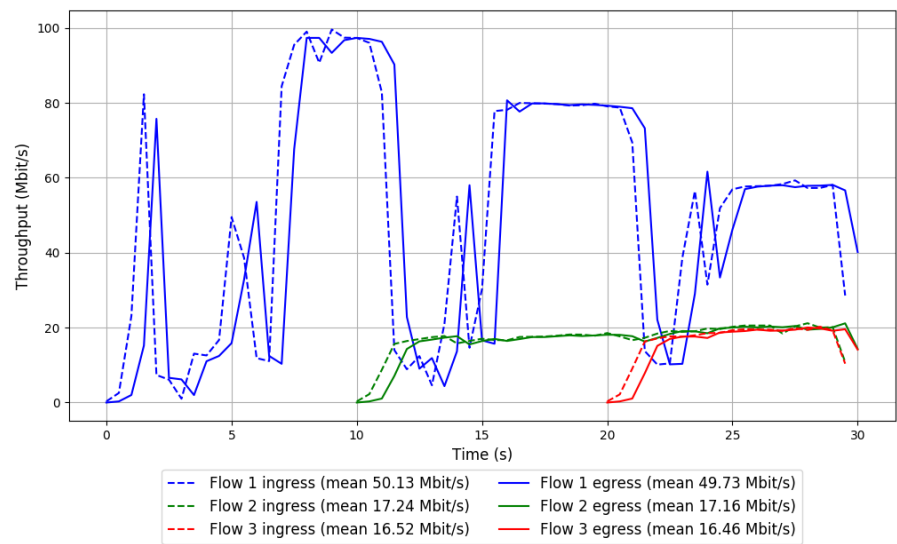


Run 6: Statistics of QUIC Cubic

Start at: 2018-08-09 10:32:13
End at: 2018-08-09 10:32:43
Local clock offset: -2.807 ms
Remote clock offset: -0.863 ms

Below is generated by plot.py at 2018-08-09 12:30:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 66.48 Mbit/s
95th percentile per-packet one-way delay: 106.027 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 49.73 Mbit/s
95th percentile per-packet one-way delay: 106.650 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 17.16 Mbit/s
95th percentile per-packet one-way delay: 102.243 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 16.46 Mbit/s
95th percentile per-packet one-way delay: 98.013 ms
Loss rate: 0.28%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-08-09 10:53:26

End at: 2018-08-09 10:53:56

Local clock offset: -2.443 ms

Remote clock offset: 3.006 ms

Below is generated by plot.py at 2018-08-09 12:30:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 60.77 Mbit/s

95th percentile per-packet one-way delay: 111.419 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 44.39 Mbit/s

95th percentile per-packet one-way delay: 113.137 ms

Loss rate: 0.95%

-- Flow 2:

Average throughput: 19.81 Mbit/s

95th percentile per-packet one-way delay: 104.719 ms

Loss rate: 0.36%

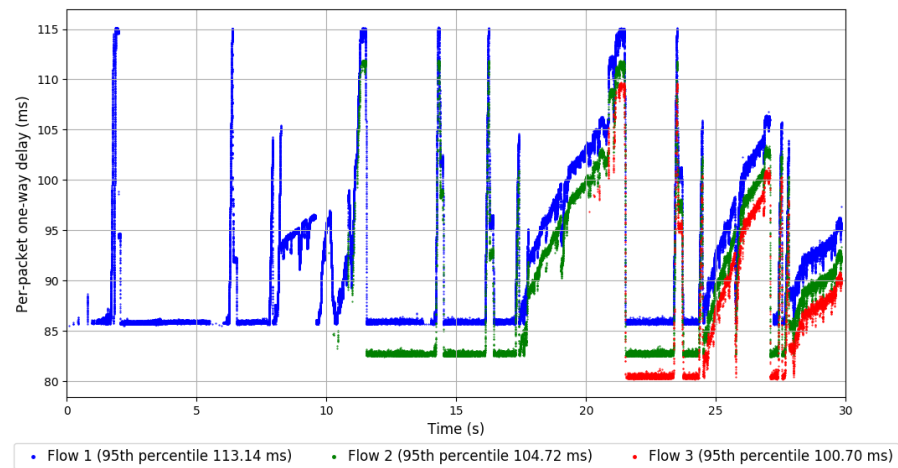
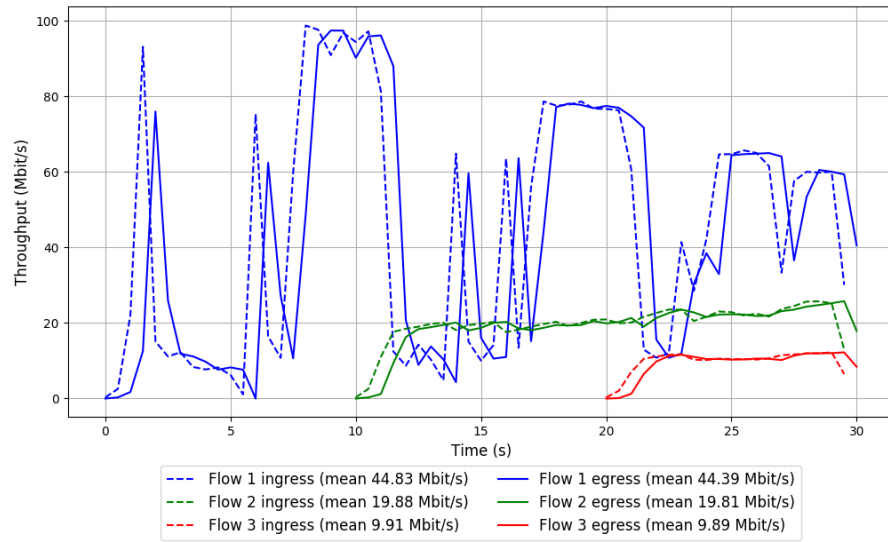
-- Flow 3:

Average throughput: 9.89 Mbit/s

95th percentile per-packet one-way delay: 100.701 ms

Loss rate: 0.29%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-08-09 11:14:39

End at: 2018-08-09 11:15:09

Local clock offset: -2.16 ms

Remote clock offset: 2.642 ms

Below is generated by plot.py at 2018-08-09 12:30:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 61.59 Mbit/s

95th percentile per-packet one-way delay: 108.965 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 46.39 Mbit/s

95th percentile per-packet one-way delay: 108.520 ms

Loss rate: 0.93%

-- Flow 2:

Average throughput: 13.40 Mbit/s

95th percentile per-packet one-way delay: 113.332 ms

Loss rate: 0.40%

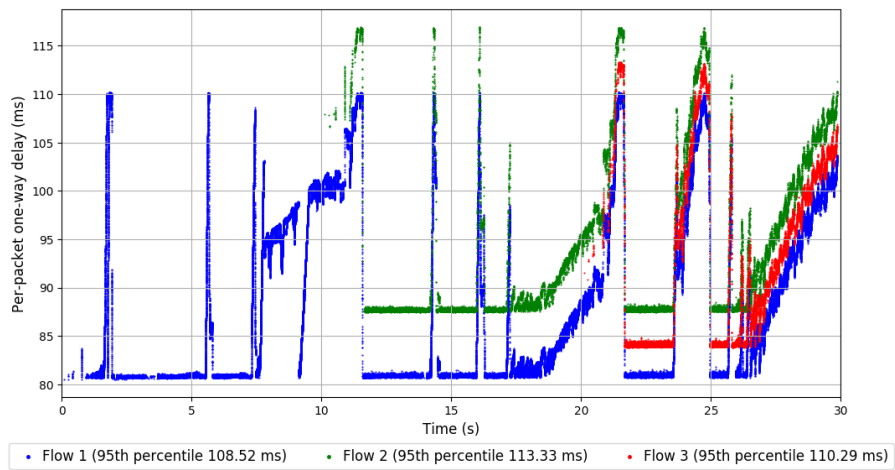
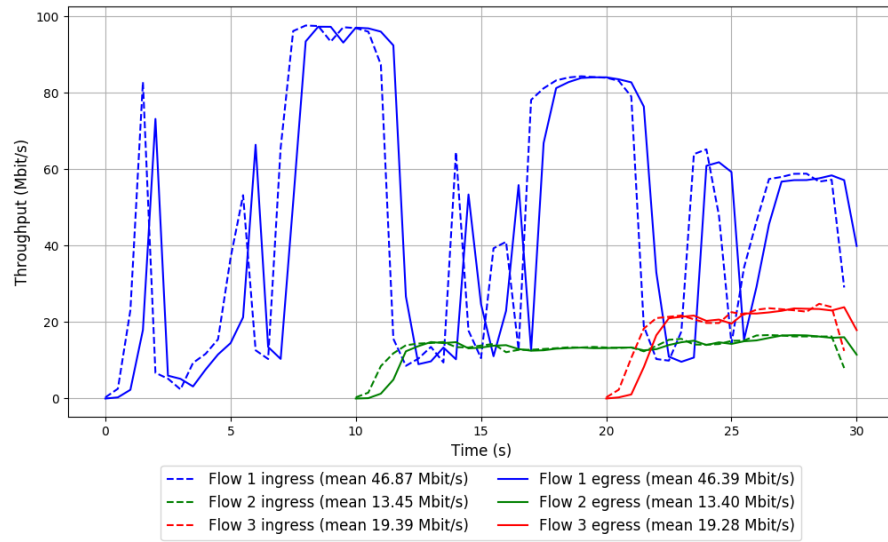
-- Flow 3:

Average throughput: 19.28 Mbit/s

95th percentile per-packet one-way delay: 110.294 ms

Loss rate: 0.44%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-08-09 11:35:57

End at: 2018-08-09 11:36:27

Local clock offset: -2.276 ms

Remote clock offset: 1.405 ms

Below is generated by plot.py at 2018-08-09 12:30:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 63.78 Mbit/s

95th percentile per-packet one-way delay: 110.668 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 47.27 Mbit/s

95th percentile per-packet one-way delay: 111.447 ms

Loss rate: 1.06%

-- Flow 2:

Average throughput: 22.60 Mbit/s

95th percentile per-packet one-way delay: 106.362 ms

Loss rate: 0.51%

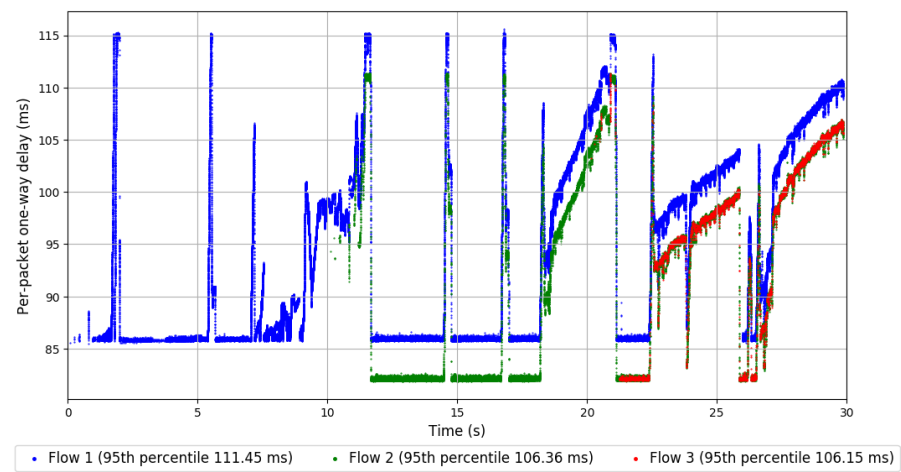
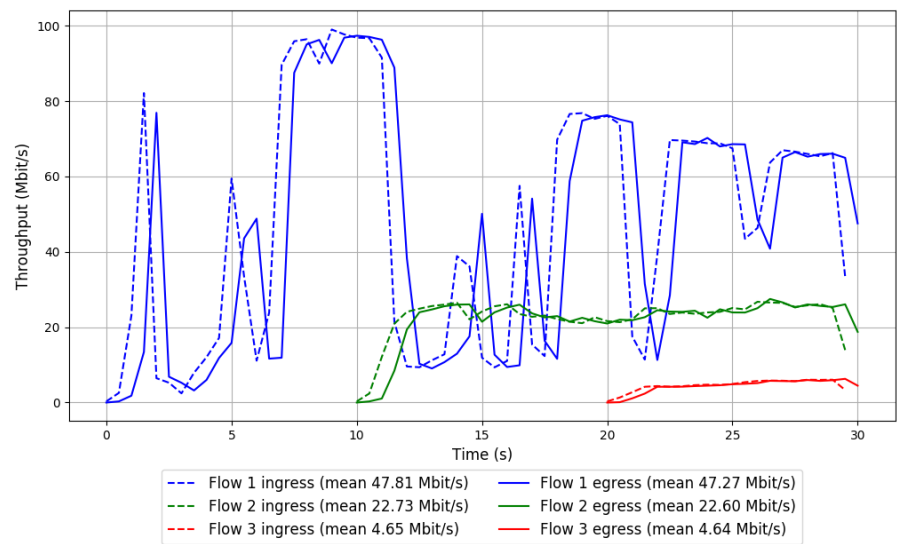
-- Flow 3:

Average throughput: 4.64 Mbit/s

95th percentile per-packet one-way delay: 106.146 ms

Loss rate: 0.20%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-08-09 11:57:10

End at: 2018-08-09 11:57:40

Local clock offset: -2.383 ms

Remote clock offset: 5.206 ms

Below is generated by plot.py at 2018-08-09 12:31:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.99 Mbit/s

95th percentile per-packet one-way delay: 114.875 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 54.17 Mbit/s

95th percentile per-packet one-way delay: 115.308 ms

Loss rate: 0.68%

-- Flow 2:

Average throughput: 18.34 Mbit/s

95th percentile per-packet one-way delay: 107.574 ms

Loss rate: 0.28%

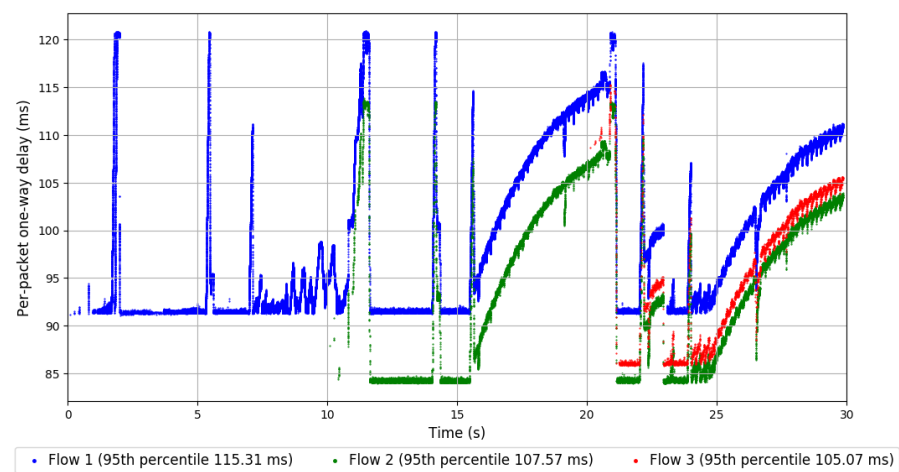
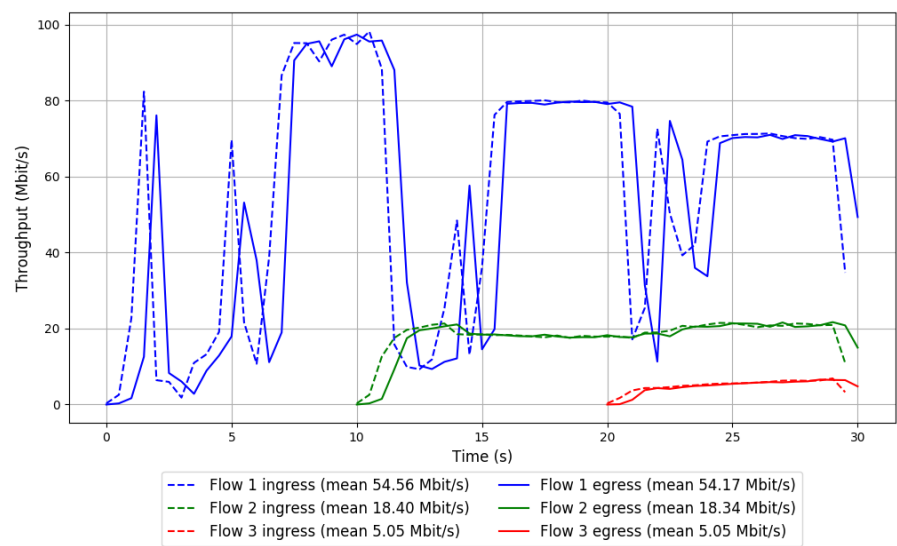
-- Flow 3:

Average throughput: 5.05 Mbit/s

95th percentile per-packet one-way delay: 105.071 ms

Loss rate: 0.05%

Run 10: Report of QUIC Cubic — Data Link

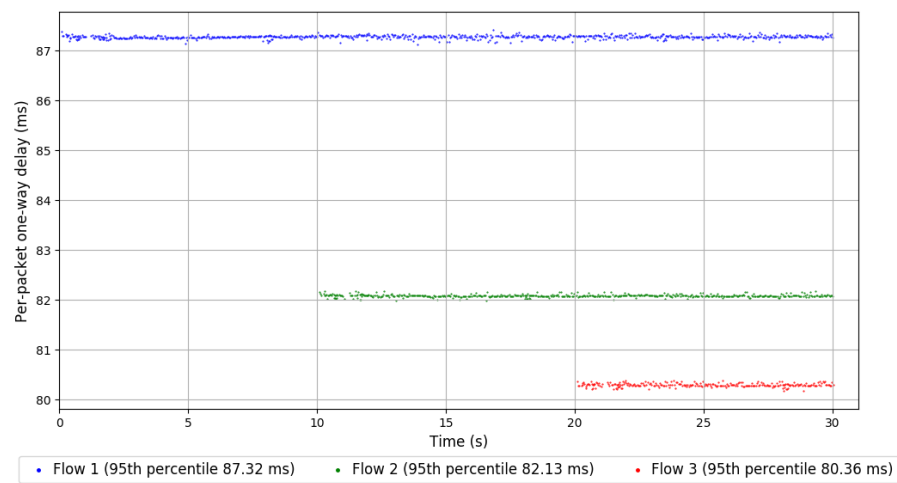
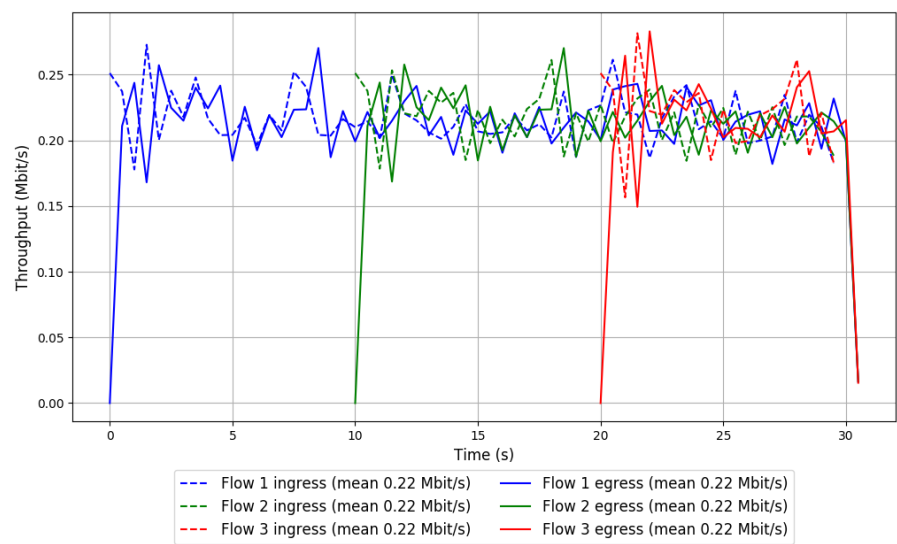


```
Run 1: Statistics of SReAM

Start at: 2018-08-09 08:51:06
End at: 2018-08-09 08:51:36
Local clock offset: -8.172 ms
Remote clock offset: 2.468 ms

# Below is generated by plot.py at 2018-08-09 12:31:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 87.310 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.322 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.134 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 80.362 ms
Loss rate: 0.00%
```


Run 1: Report of SCSReAM — Data Link

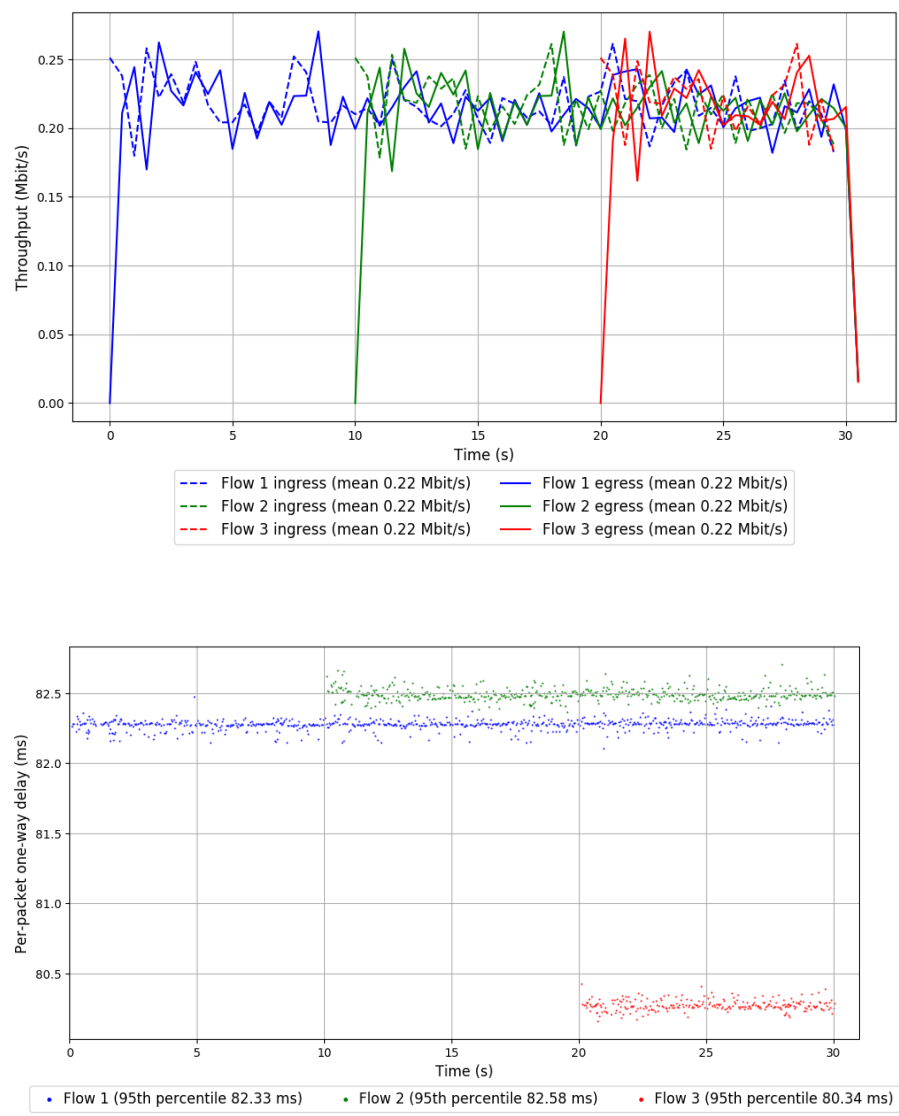


```
Run 2: Statistics of SReAM

Start at: 2018-08-09 09:12:20
End at: 2018-08-09 09:12:50
Local clock offset: -8.325 ms
Remote clock offset: 0.894 ms

# Below is generated by plot.py at 2018-08-09 12:31:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 82.534 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.326 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.576 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 80.344 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link

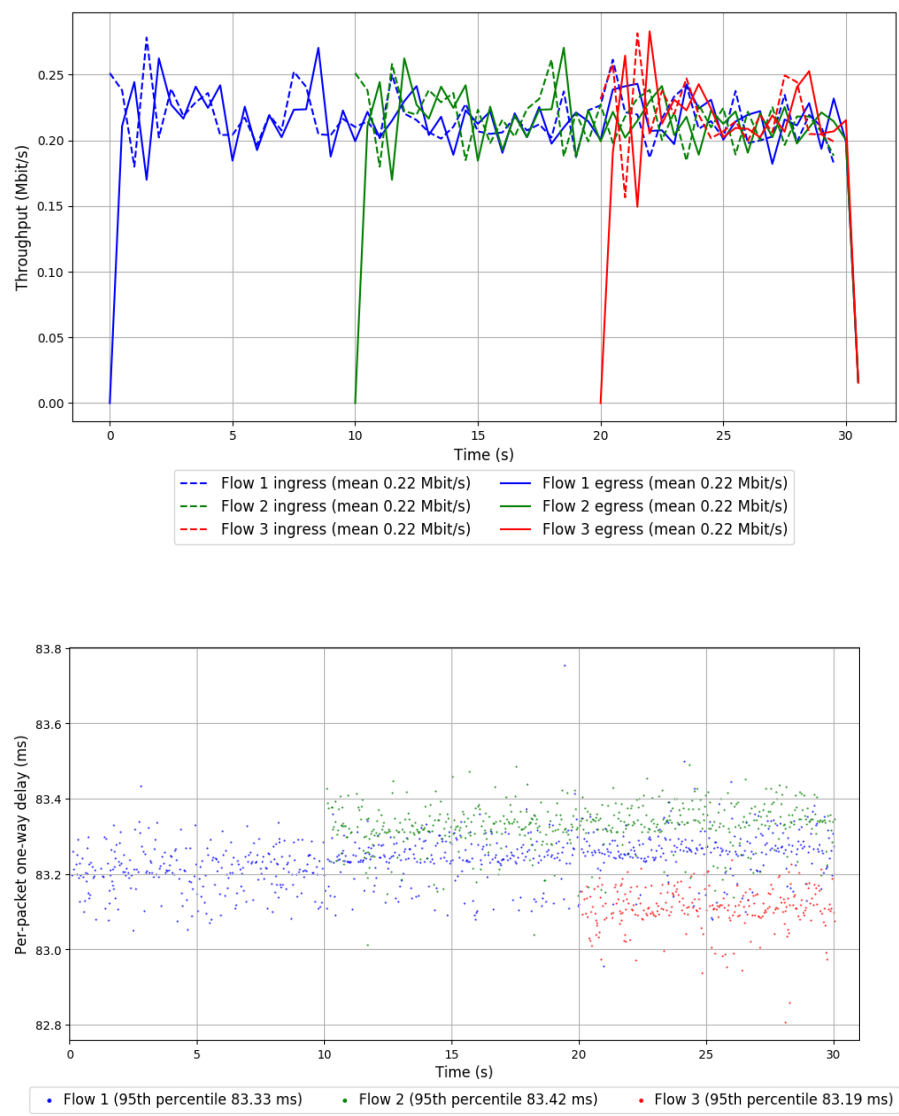


Run 3: Statistics of SReAM

Start at: 2018-08-09 09:33:30
End at: 2018-08-09 09:34:00
Local clock offset: -3.671 ms
Remote clock offset: 3.127 ms

Below is generated by plot.py at 2018-08-09 12:31:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 83.386 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.333 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.415 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.192 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

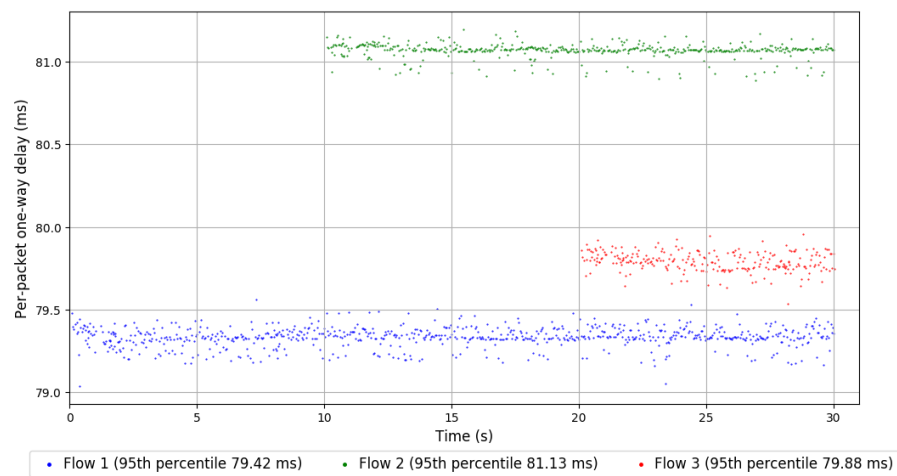
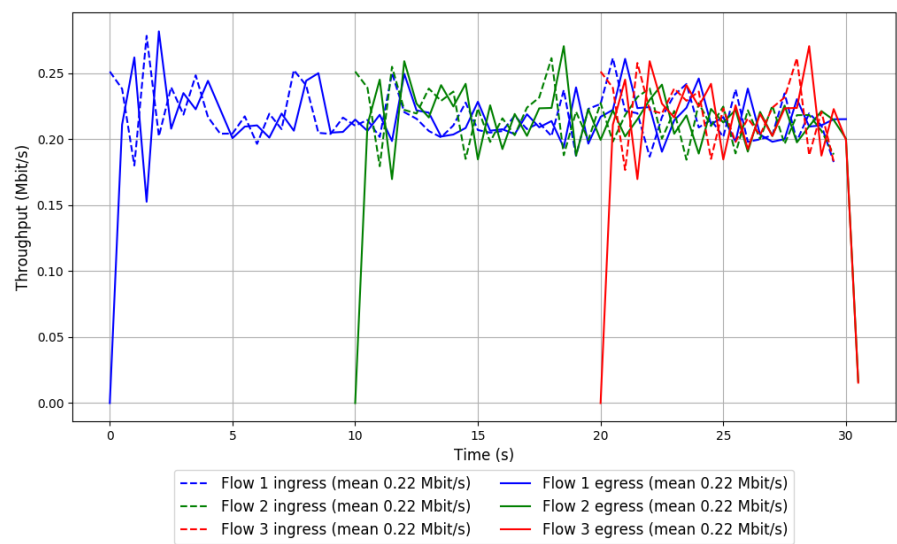


Run 4: Statistics of SReAM

Start at: 2018-08-09 09:54:48
End at: 2018-08-09 09:55:18
Local clock offset: -3.002 ms
Remote clock offset: -0.853 ms

Below is generated by plot.py at 2018-08-09 12:31:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 81.100 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.425 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.127 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.879 ms
Loss rate: 0.00%

Run 4: Report of SCReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-08-09 10:15:58

End at: 2018-08-09 10:16:28

Local clock offset: -2.582 ms

Remote clock offset: 0.333 ms

Below is generated by plot.py at 2018-08-09 12:31:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 87.536 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 82.036 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.575 ms

Loss rate: 0.00%

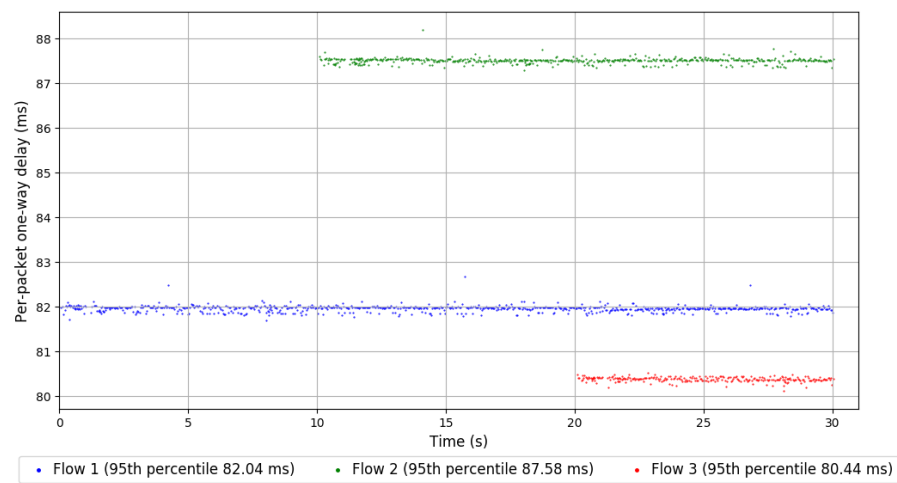
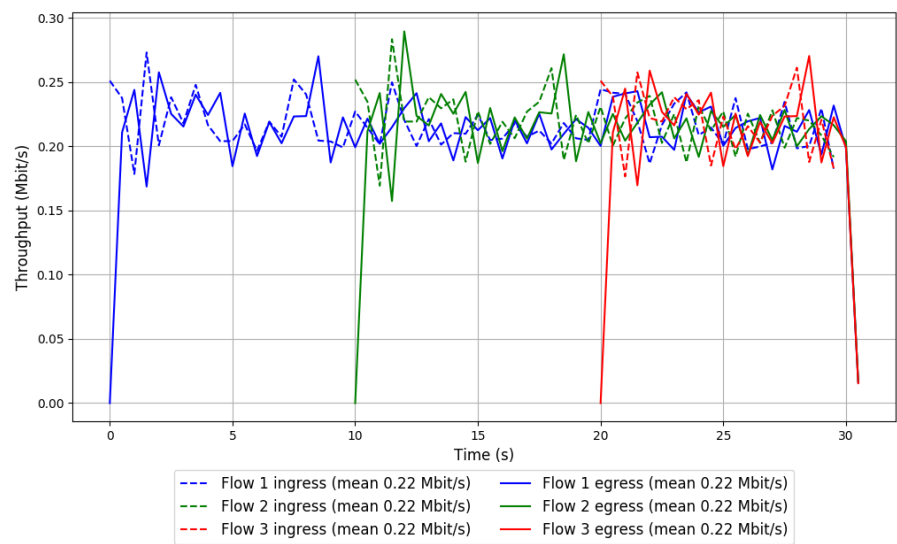
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 80.445 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-08-09 10:37:10

End at: 2018-08-09 10:37:40

Local clock offset: -2.752 ms

Remote clock offset: 3.593 ms

Below is generated by plot.py at 2018-08-09 12:31:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 84.820 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 83.223 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 83.138 ms

Loss rate: 0.00%

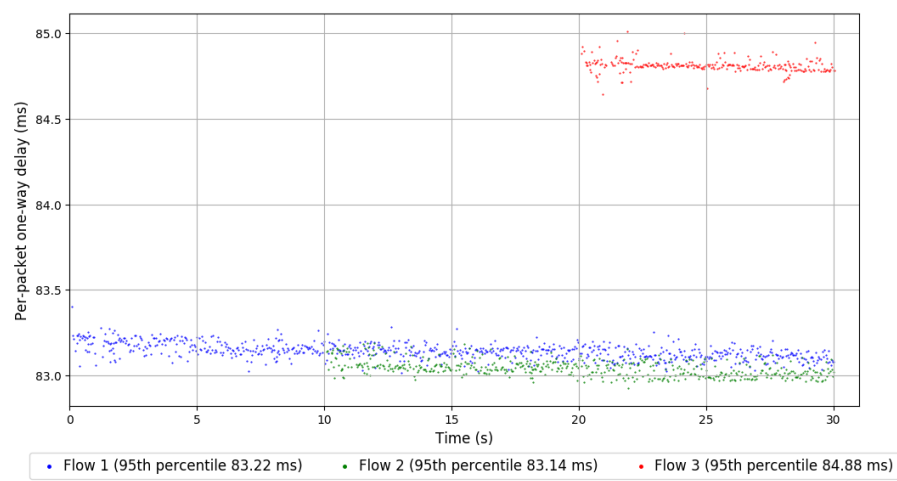
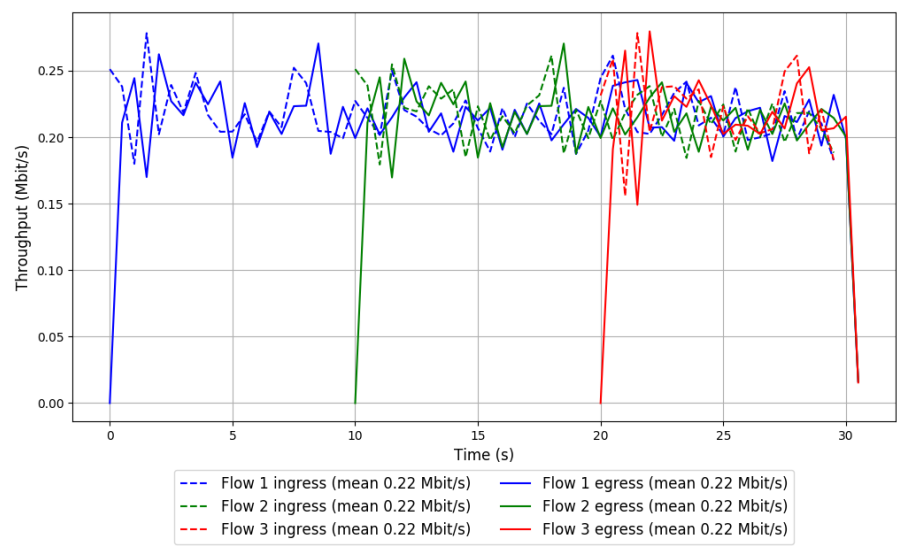
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 84.882 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

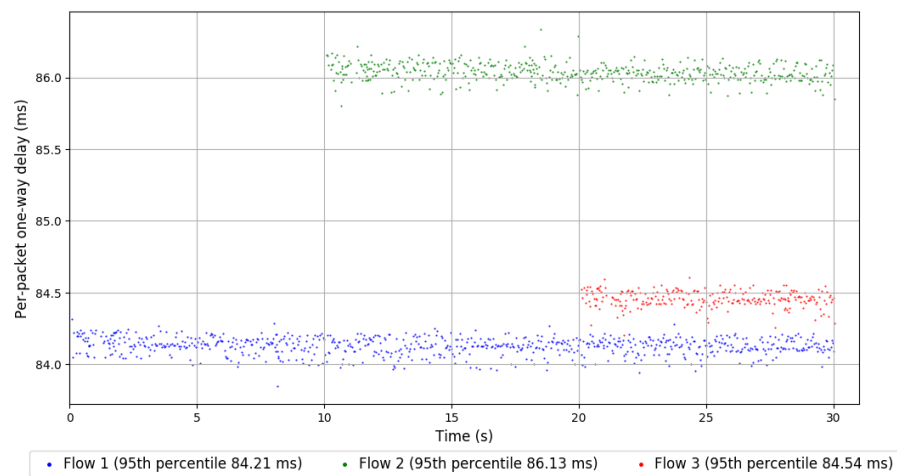
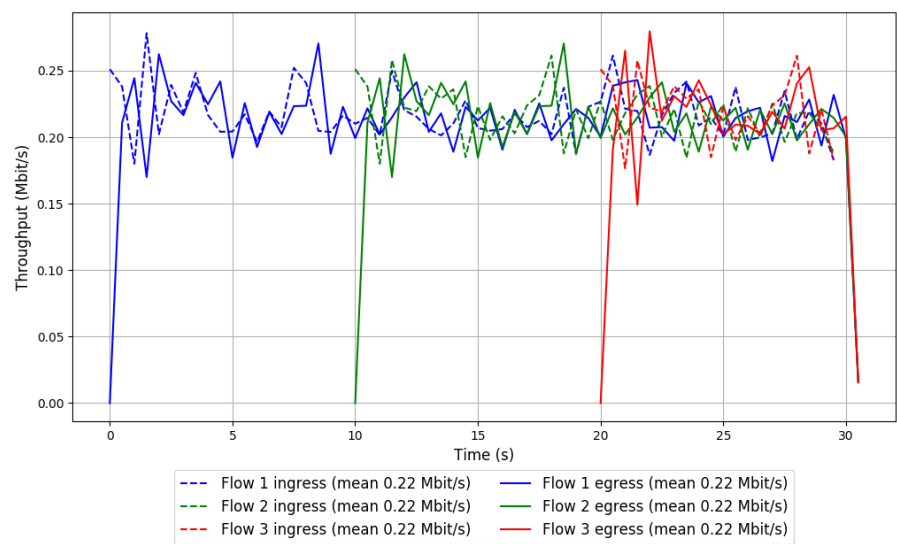


Run 7: Statistics of SReAM

Start at: 2018-08-09 10:58:23
End at: 2018-08-09 10:58:53
Local clock offset: -2.466 ms
Remote clock offset: 7.029 ms

Below is generated by plot.py at 2018-08-09 12:31:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.102 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.214 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.128 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.536 ms
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-08-09 11:19:37

End at: 2018-08-09 11:20:07

Local clock offset: -2.233 ms

Remote clock offset: 2.132 ms

Below is generated by plot.py at 2018-08-09 12:31:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 82.617 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 82.639 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 80.618 ms

Loss rate: 0.00%

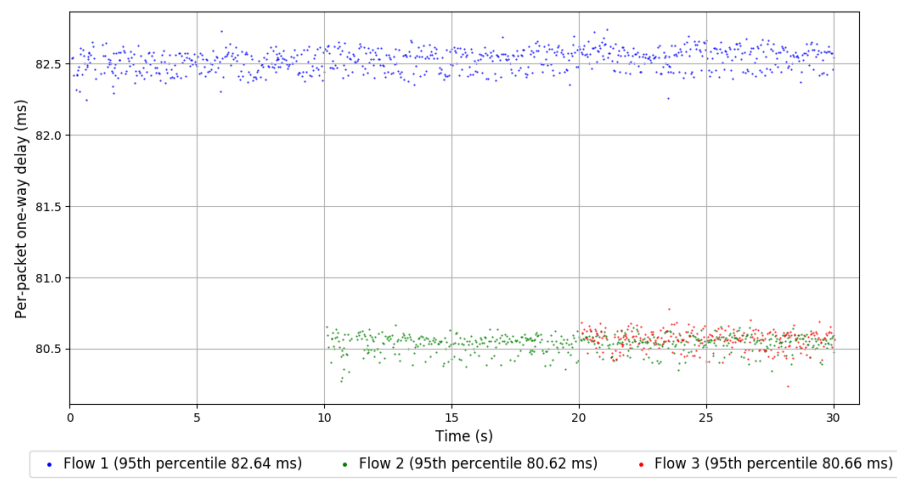
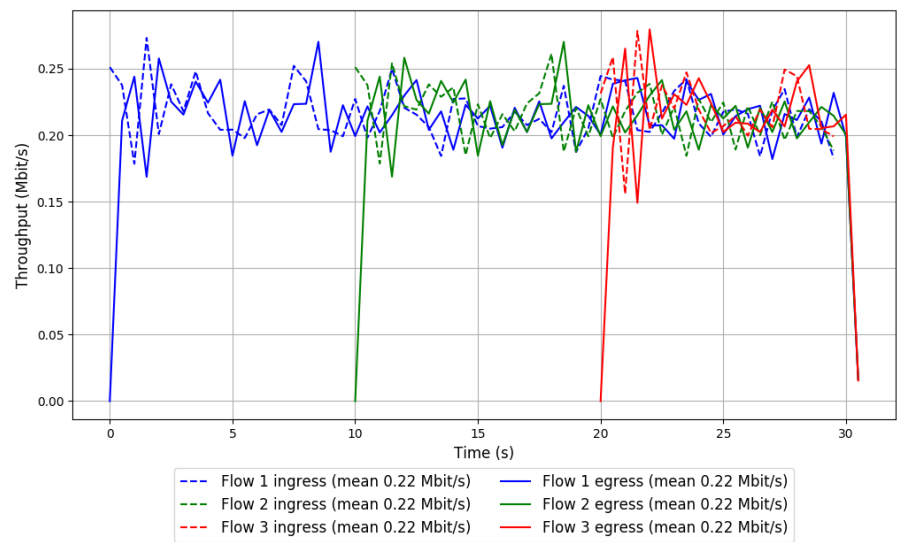
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 80.659 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-08-09 11:40:55

End at: 2018-08-09 11:41:25

Local clock offset: -2.222 ms

Remote clock offset: 0.444 ms

Below is generated by plot.py at 2018-08-09 12:31:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 84.913 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 84.935 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 81.241 ms

Loss rate: 0.00%

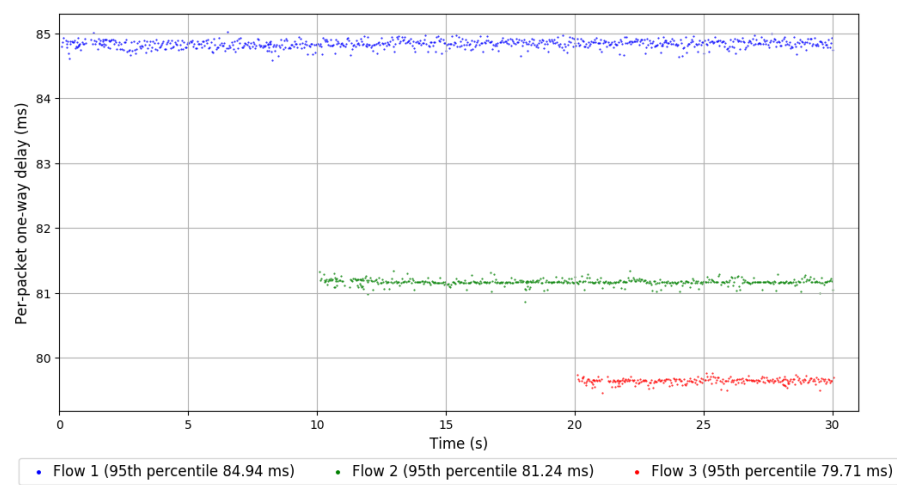
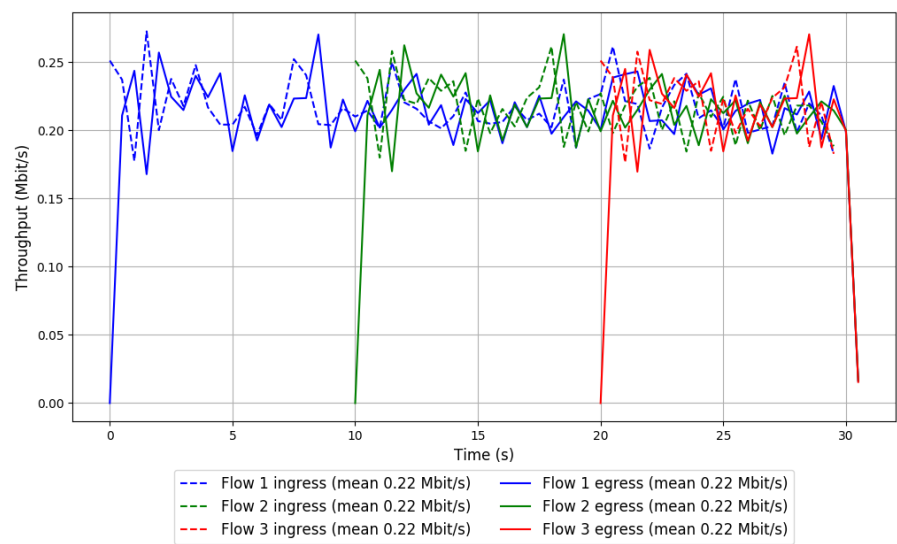
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 79.708 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-08-09 12:02:06

End at: 2018-08-09 12:02:36

Local clock offset: -2.338 ms

Remote clock offset: 0.277 ms

Below is generated by plot.py at 2018-08-09 12:31:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 79.644 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 79.364 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 79.668 ms

Loss rate: 0.00%

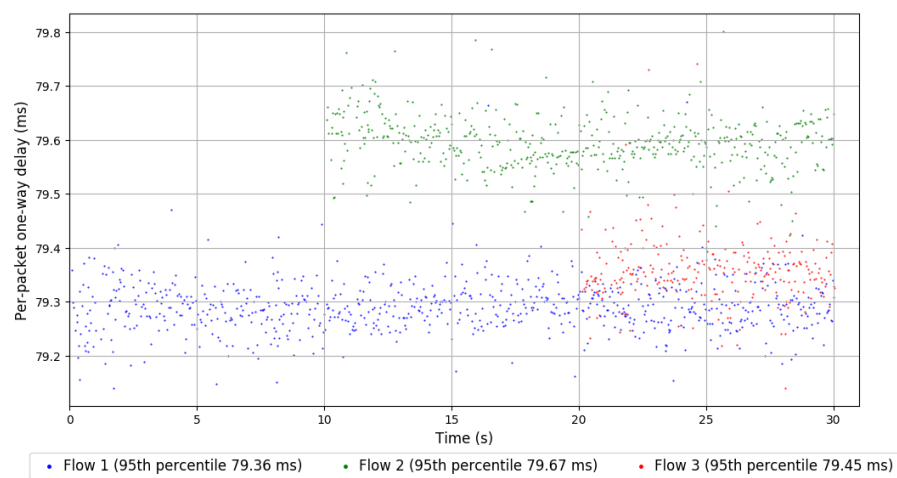
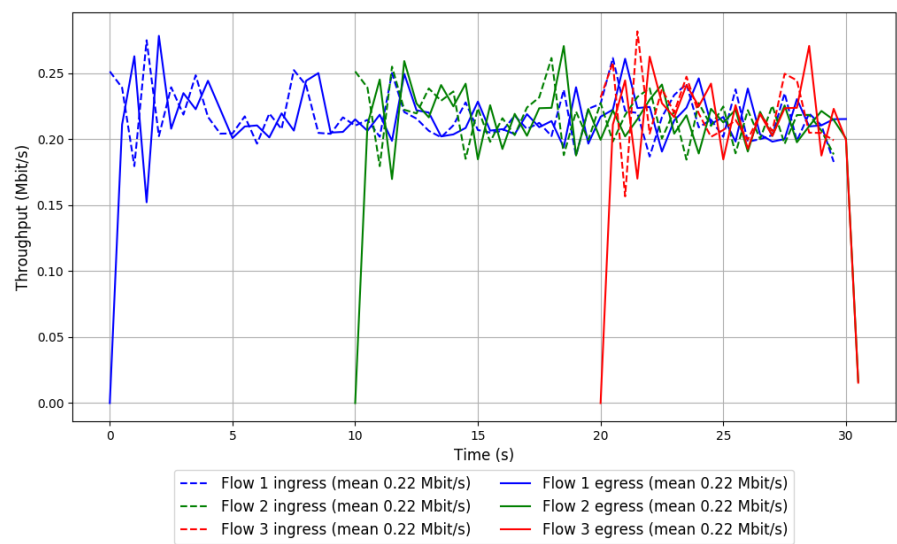
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 79.446 ms

Loss rate: 0.00%

Run 10: Report of SCRaM — Data Link

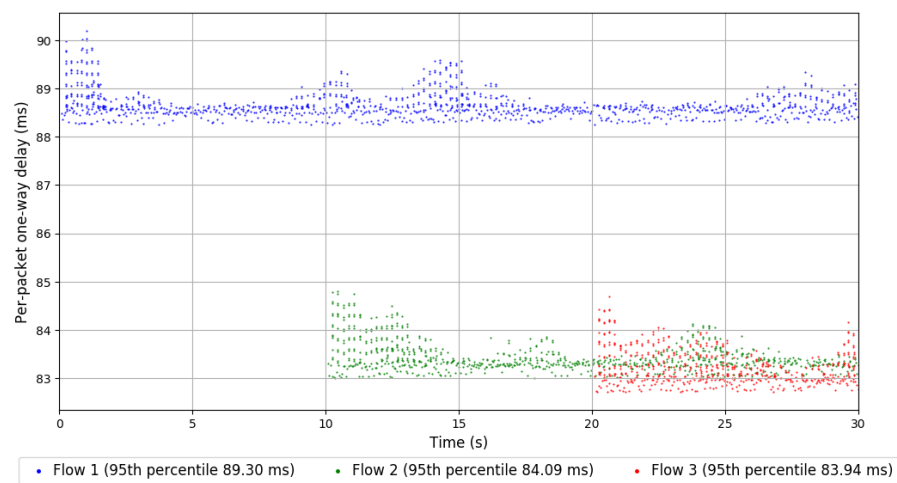
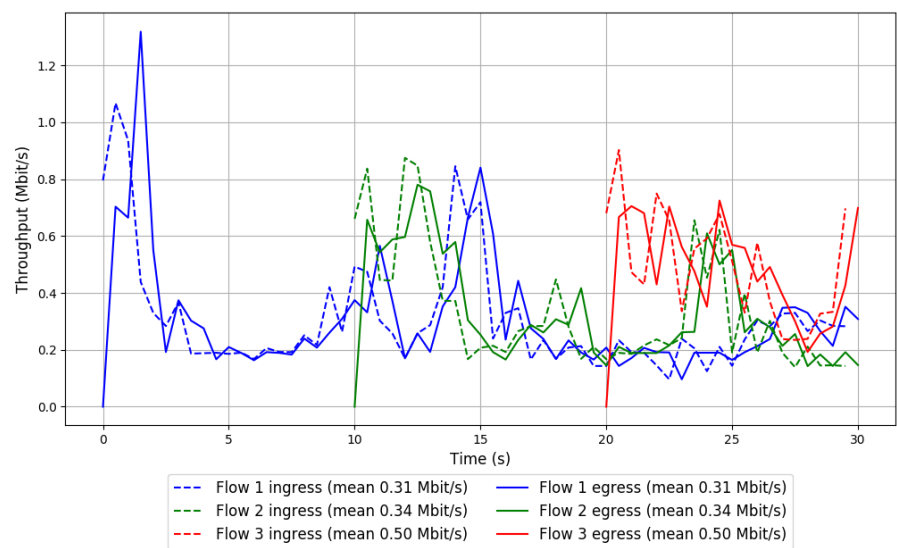


Run 1: Statistics of Sprout

Start at: 2018-08-09 08:58:32
End at: 2018-08-09 08:59:02
Local clock offset: -8.162 ms
Remote clock offset: 4.369 ms

Below is generated by plot.py at 2018-08-09 12:31:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.70 Mbit/s
95th percentile per-packet one-way delay: 89.028 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.31 Mbit/s
95th percentile per-packet one-way delay: 89.301 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 84.092 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 83.935 ms
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

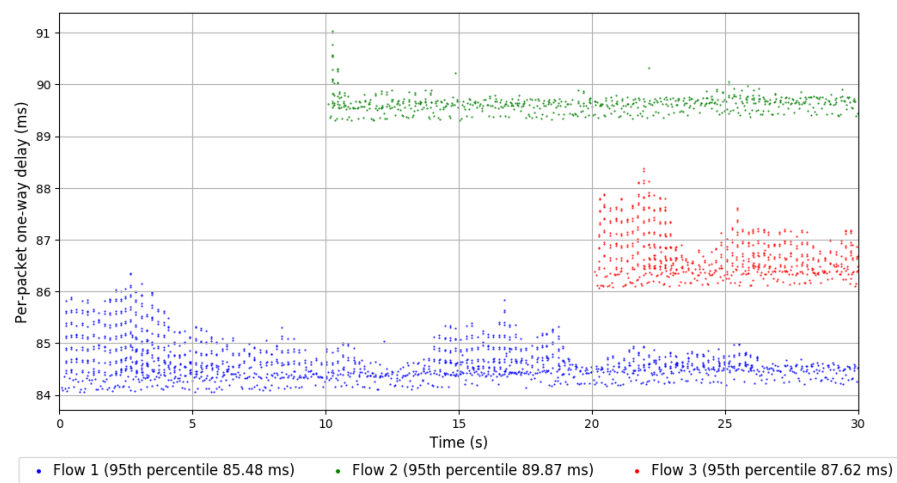
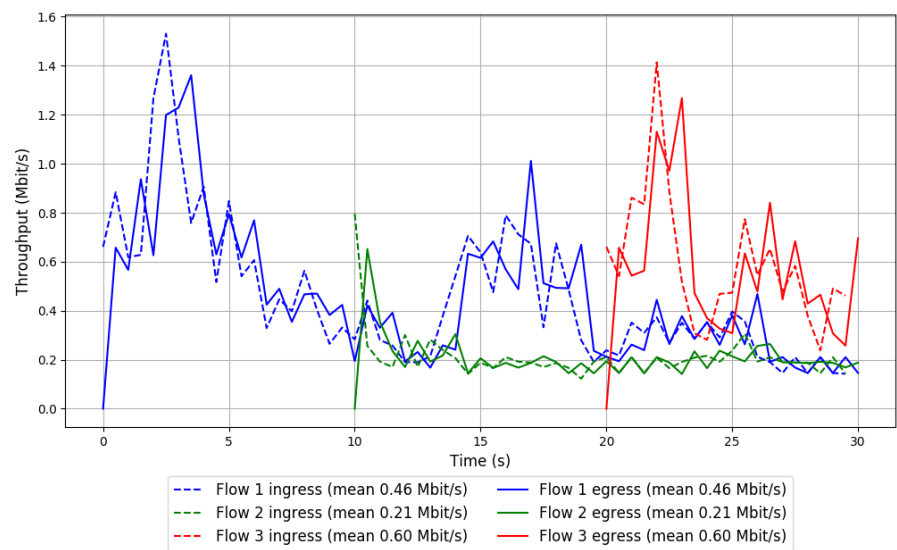


Run 2: Statistics of Sprout

Start at: 2018-08-09 09:19:46
End at: 2018-08-09 09:20:16
Local clock offset: -6.526 ms
Remote clock offset: 4.543 ms

```
# Below is generated by plot.py at 2018-08-09 12:31:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.80 Mbit/s
95th percentile per-packet one-way delay: 89.715 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 85.484 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 89.870 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.60 Mbit/s
95th percentile per-packet one-way delay: 87.624 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link

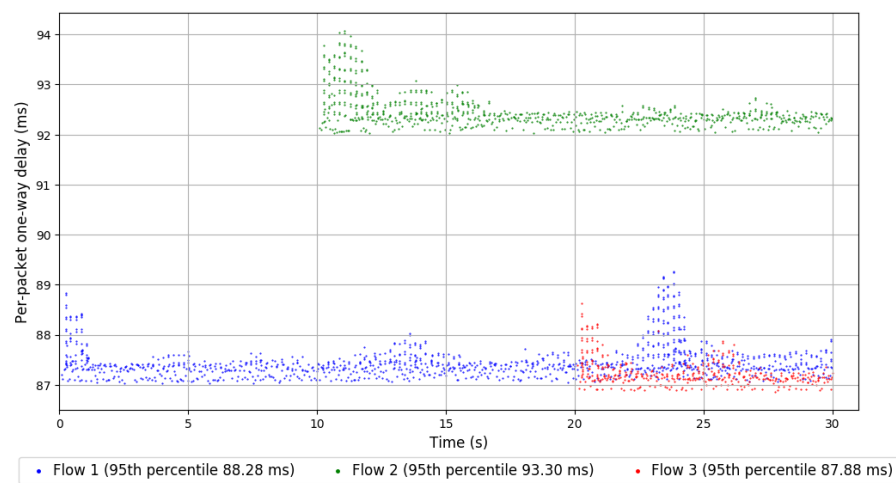
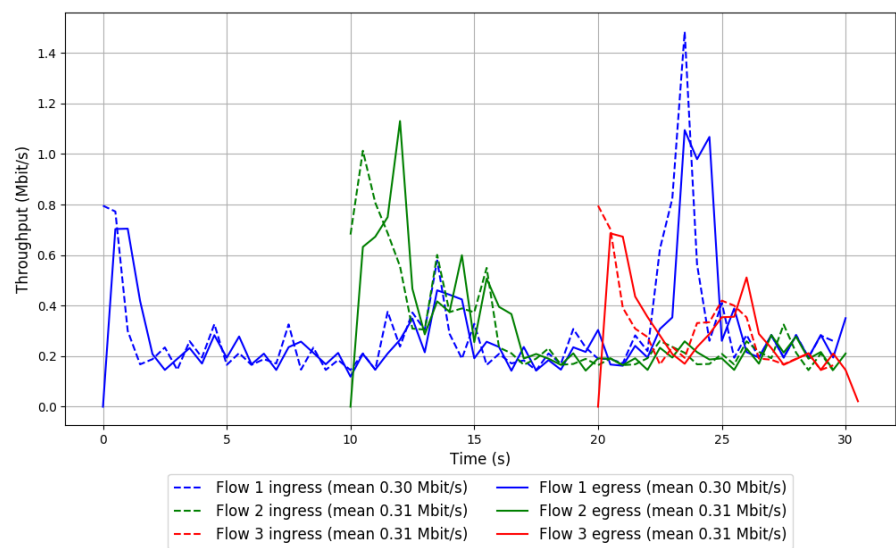


Run 3: Statistics of Sprout

Start at: 2018-08-09 09:40:55
End at: 2018-08-09 09:41:25
Local clock offset: -2.894 ms
Remote clock offset: 5.279 ms

```
# Below is generated by plot.py at 2018-08-09 12:31:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.60 Mbit/s
95th percentile per-packet one-way delay: 92.690 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 88.283 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.31 Mbit/s
95th percentile per-packet one-way delay: 93.299 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.31 Mbit/s
95th percentile per-packet one-way delay: 87.878 ms
Loss rate: 0.00%
```


Run 3: Report of Sprout — Data Link

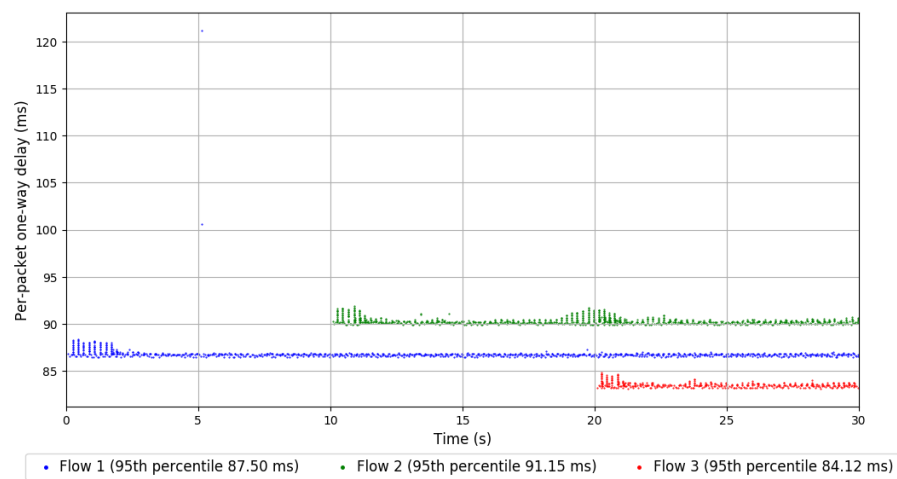
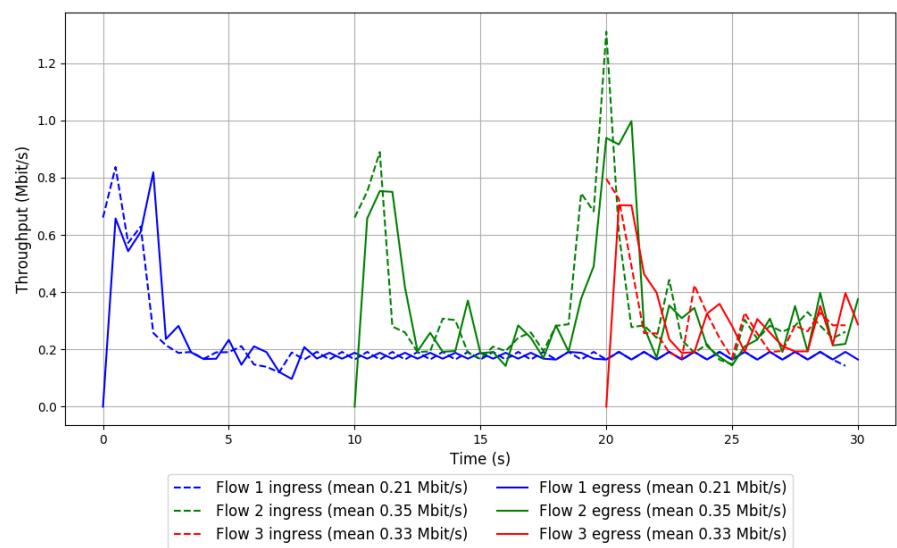


Run 4: Statistics of Sprout

Start at: 2018-08-09 10:02:13
End at: 2018-08-09 10:02:43
Local clock offset: -2.966 ms
Remote clock offset: 2.896 ms

```
# Below is generated by plot.py at 2018-08-09 12:31:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 90.686 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 87.498 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 91.147 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 84.118 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

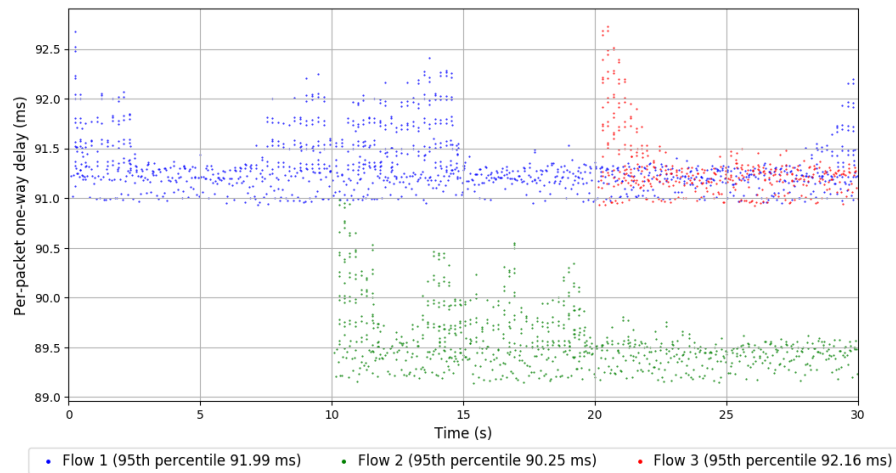
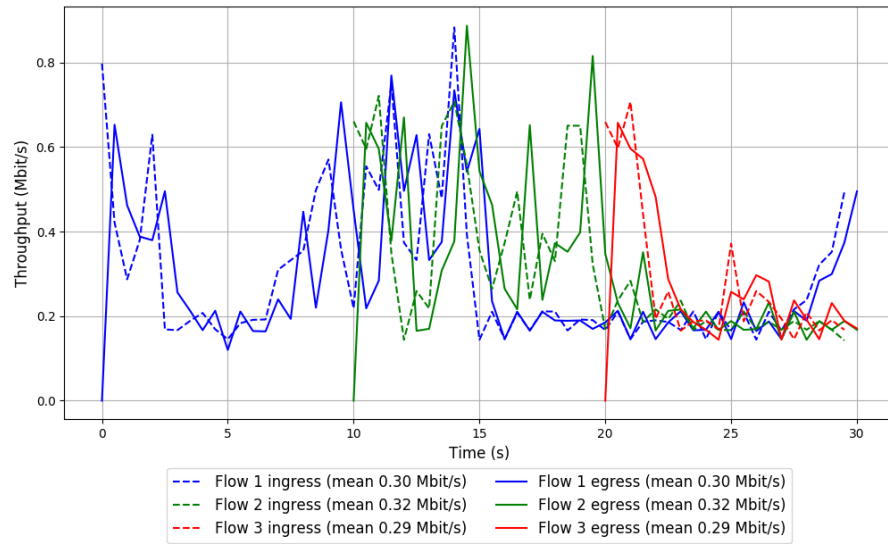


Run 5: Statistics of Sprout

Start at: 2018-08-09 10:23:24
End at: 2018-08-09 10:23:54
Local clock offset: -2.771 ms
Remote clock offset: 4.186 ms

```
# Below is generated by plot.py at 2018-08-09 12:31:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 91.830 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 91.988 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 90.255 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 92.163 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-08-09 10:44:37

End at: 2018-08-09 10:45:07

Local clock offset: -2.53 ms

Remote clock offset: 4.814 ms

Below is generated by plot.py at 2018-08-09 12:31:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.62 Mbit/s

95th percentile per-packet one-way delay: 90.449 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 88.711 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 90.841 ms

Loss rate: 0.00%

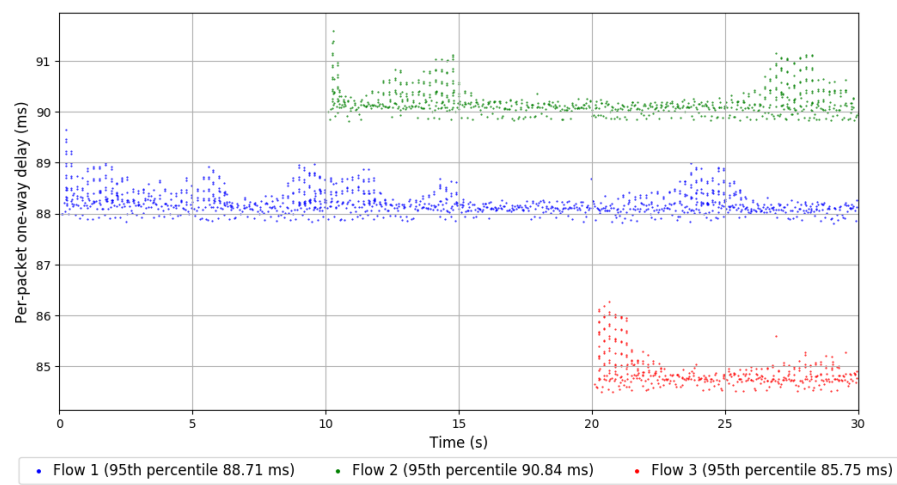
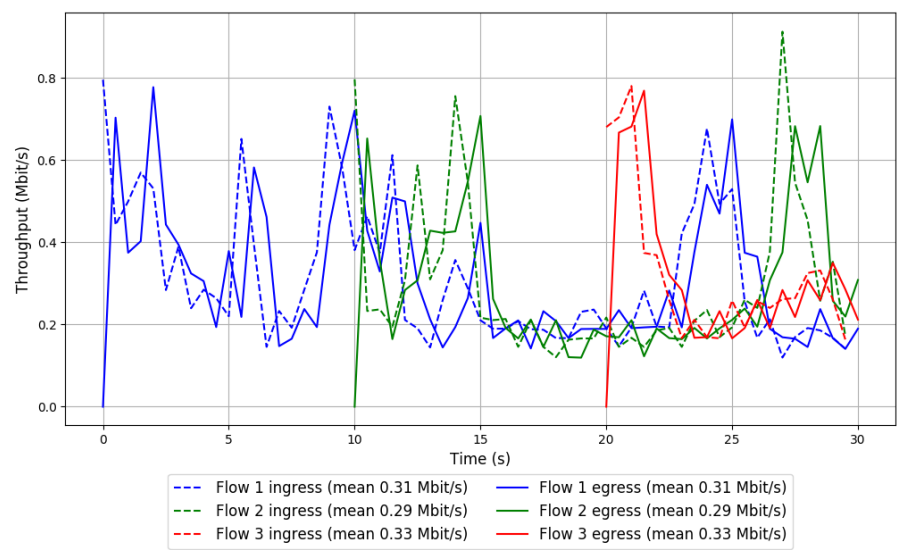
-- Flow 3:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 85.749 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link

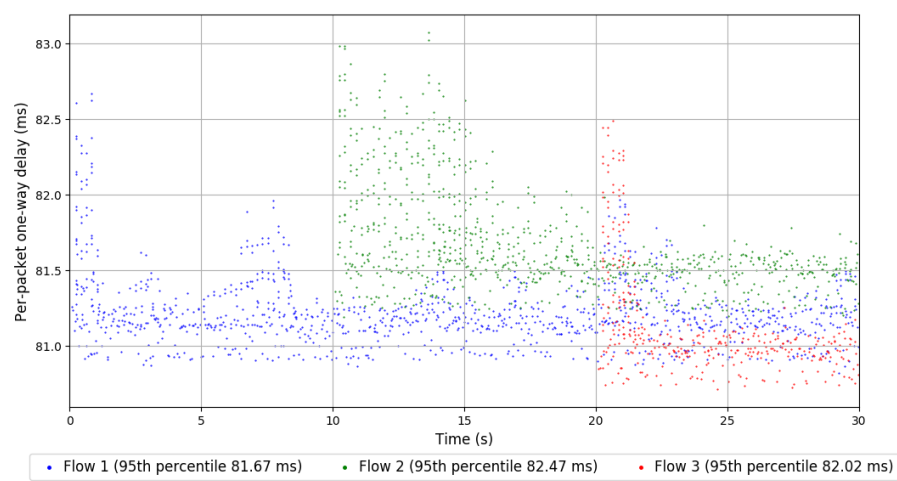
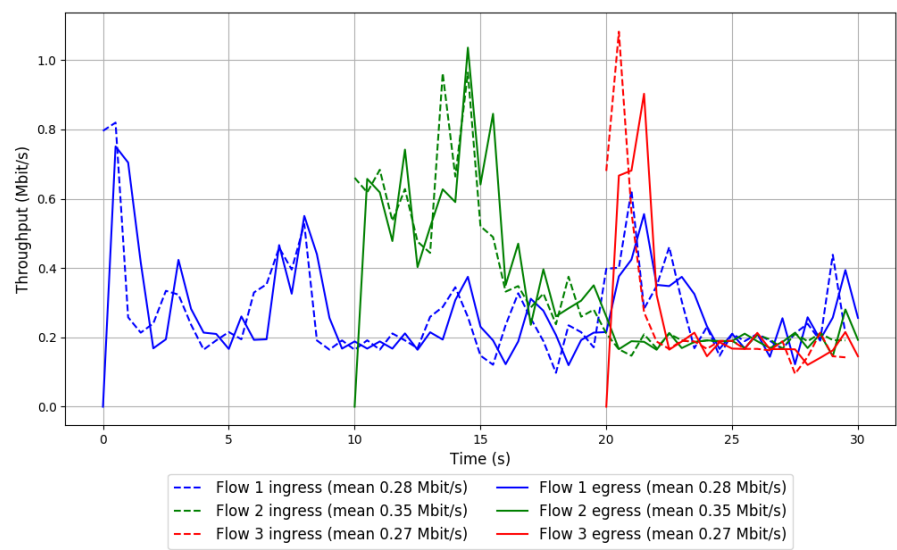


Run 7: Statistics of Sprout

Start at: 2018-08-09 11:05:50
End at: 2018-08-09 11:06:20
Local clock offset: -2.356 ms
Remote clock offset: 2.655 ms

```
# Below is generated by plot.py at 2018-08-09 12:31:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.60 Mbit/s
95th percentile per-packet one-way delay: 82.226 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 81.673 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 82.466 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.27 Mbit/s
95th percentile per-packet one-way delay: 82.018 ms
Loss rate: 0.00%
```


Run 7: Report of Sprout — Data Link

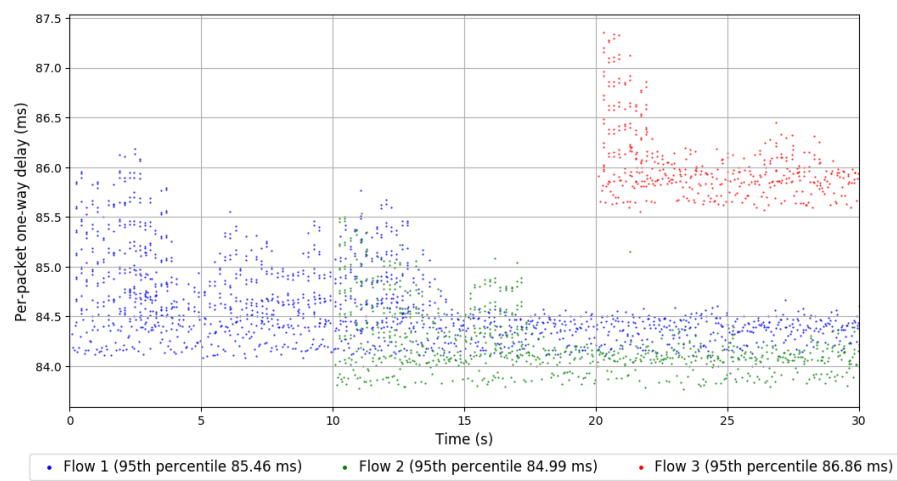
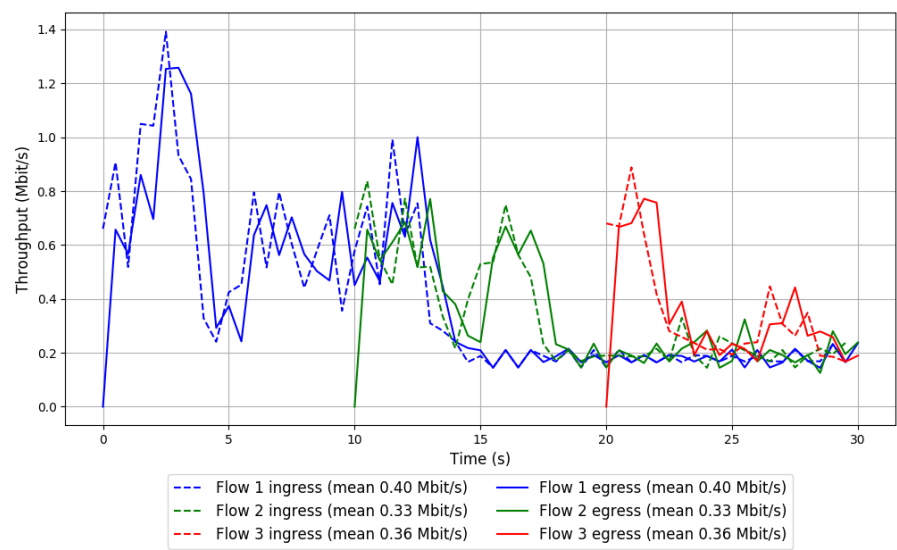


Run 8: Statistics of Sprout

Start at: 2018-08-09 11:27:04
End at: 2018-08-09 11:27:34
Local clock offset: -2.302 ms
Remote clock offset: 5.48 ms

```
# Below is generated by plot.py at 2018-08-09 12:31:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.74 Mbit/s
95th percentile per-packet one-way delay: 86.085 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 85.461 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 84.994 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 86.856 ms
Loss rate: 0.00%
```

Run 8: Report of Sprout — Data Link

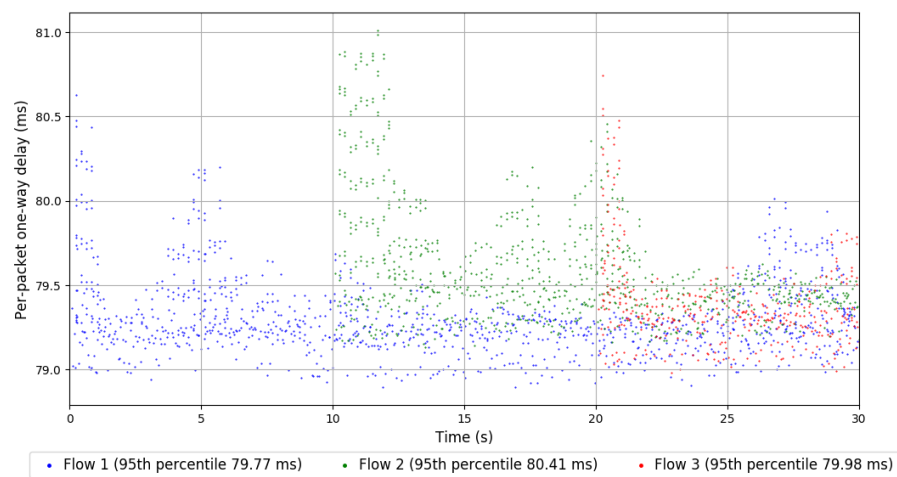
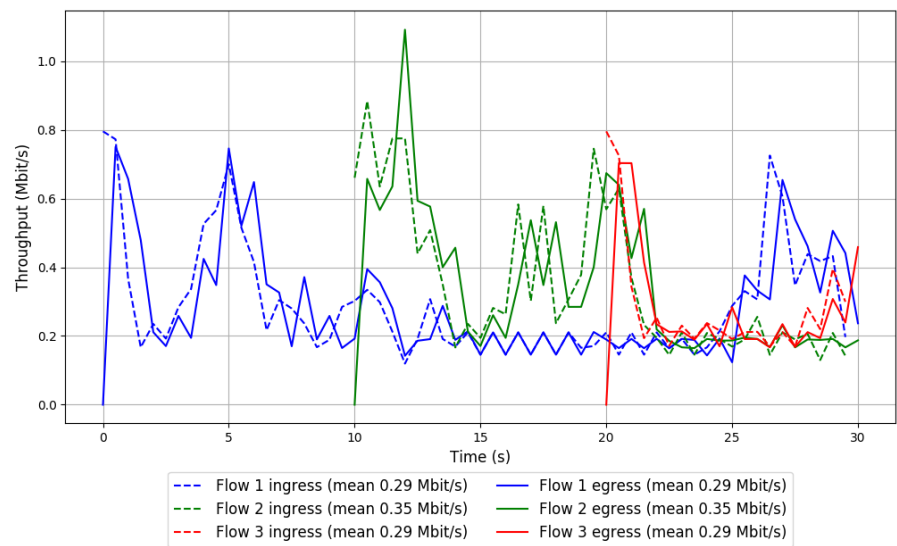


Run 9: Statistics of Sprout

Start at: 2018-08-09 11:48:21
End at: 2018-08-09 11:48:51
Local clock offset: -2.165 ms
Remote clock offset: 0.331 ms

Below is generated by plot.py at 2018-08-09 12:31:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.62 Mbit/s
95th percentile per-packet one-way delay: 80.119 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 79.768 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 80.412 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 79.977 ms
Loss rate: 0.00%

Run 9: Report of Sprout — Data Link

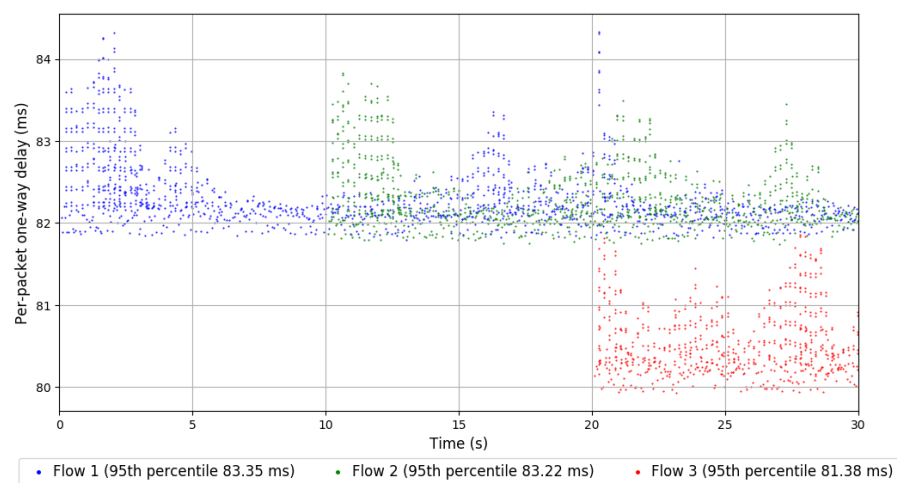
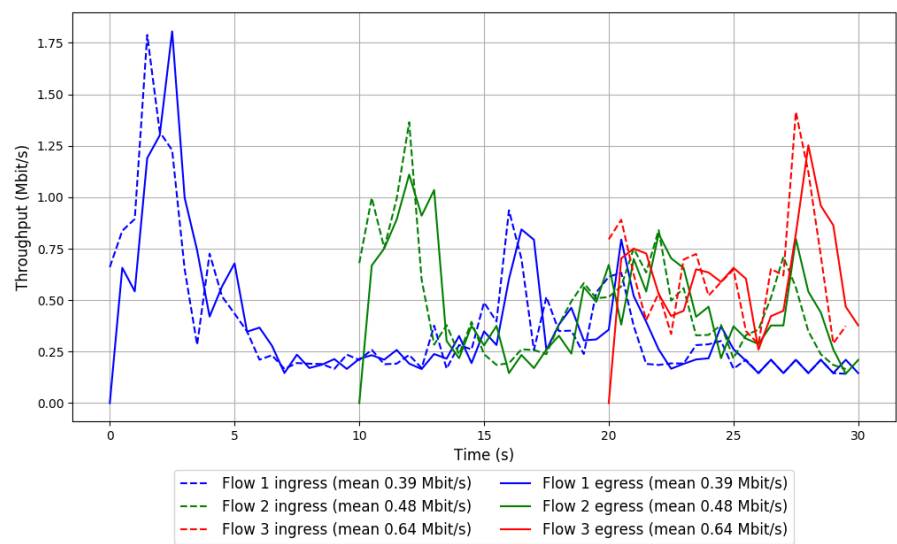


Run 10: Statistics of Sprout

Start at: 2018-08-09 12:09:34
End at: 2018-08-09 12:10:04
Local clock offset: -2.313 ms
Remote clock offset: 1.324 ms

```
# Below is generated by plot.py at 2018-08-09 12:31:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.92 Mbit/s
95th percentile per-packet one-way delay: 83.118 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 83.351 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.48 Mbit/s
95th percentile per-packet one-way delay: 83.221 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.64 Mbit/s
95th percentile per-packet one-way delay: 81.382 ms
Loss rate: 0.00%
```

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2018-08-09 08:54:48

End at: 2018-08-09 08:55:18

Local clock offset: -8.197 ms

Remote clock offset: 5.902 ms

Below is generated by plot.py at 2018-08-09 12:32:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.27 Mbit/s

95th percentile per-packet one-way delay: 115.522 ms

Loss rate: 6.19%

-- Flow 1:

Average throughput: 44.78 Mbit/s

95th percentile per-packet one-way delay: 115.940 ms

Loss rate: 4.53%

-- Flow 2:

Average throughput: 22.51 Mbit/s

95th percentile per-packet one-way delay: 114.314 ms

Loss rate: 9.21%

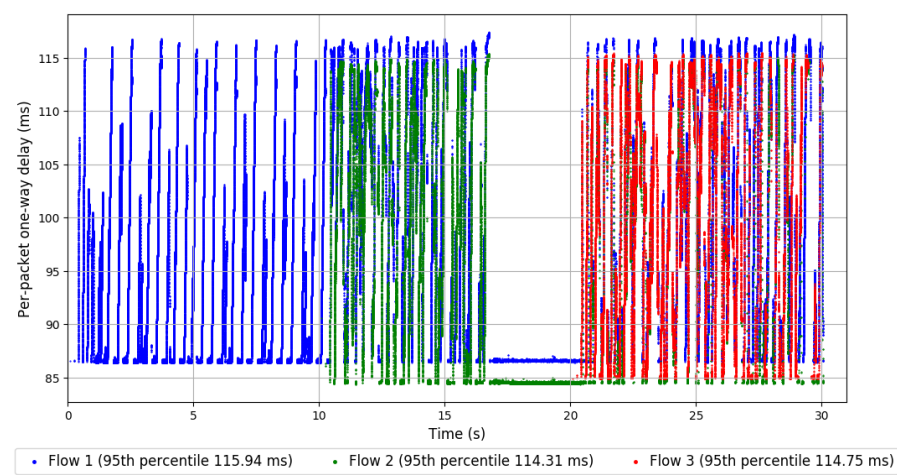
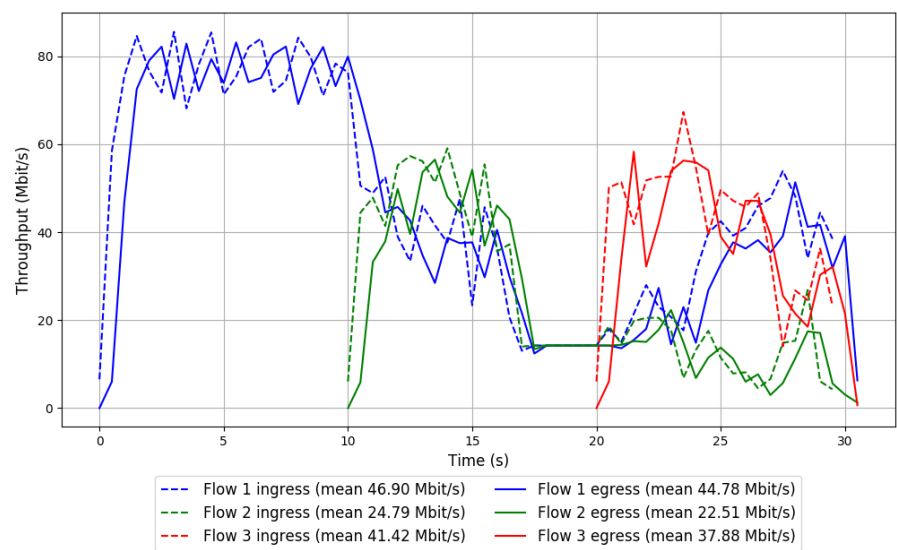
-- Flow 3:

Average throughput: 37.88 Mbit/s

95th percentile per-packet one-way delay: 114.748 ms

Loss rate: 8.28%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-08-09 09:16:02

End at: 2018-08-09 09:16:32

Local clock offset: -8.381 ms

Remote clock offset: 3.453 ms

Below is generated by plot.py at 2018-08-09 12:32:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.56 Mbit/s

95th percentile per-packet one-way delay: 114.982 ms

Loss rate: 5.57%

-- Flow 1:

Average throughput: 43.80 Mbit/s

95th percentile per-packet one-way delay: 114.695 ms

Loss rate: 4.65%

-- Flow 2:

Average throughput: 47.18 Mbit/s

95th percentile per-packet one-way delay: 114.997 ms

Loss rate: 6.01%

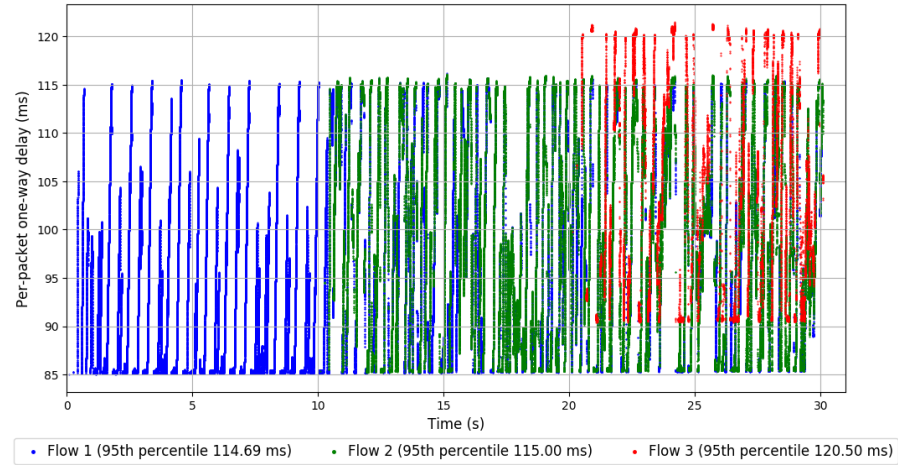
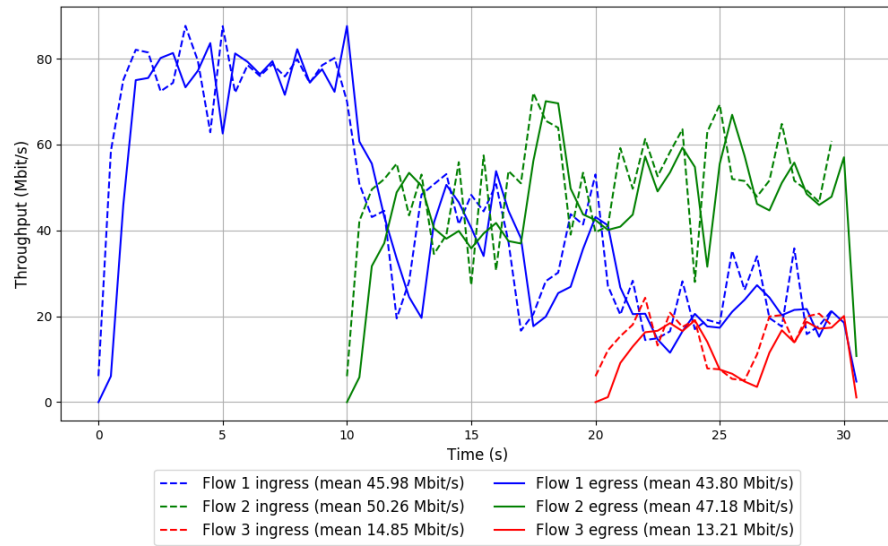
-- Flow 3:

Average throughput: 13.21 Mbit/s

95th percentile per-packet one-way delay: 120.503 ms

Loss rate: 11.06%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-08-09 09:37:12

End at: 2018-08-09 09:37:42

Local clock offset: -3.267 ms

Remote clock offset: 5.348 ms

Below is generated by plot.py at 2018-08-09 12:32:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.72 Mbit/s

95th percentile per-packet one-way delay: 116.990 ms

Loss rate: 5.87%

-- Flow 1:

Average throughput: 53.96 Mbit/s

95th percentile per-packet one-way delay: 116.677 ms

Loss rate: 3.90%

-- Flow 2:

Average throughput: 29.62 Mbit/s

95th percentile per-packet one-way delay: 117.566 ms

Loss rate: 8.75%

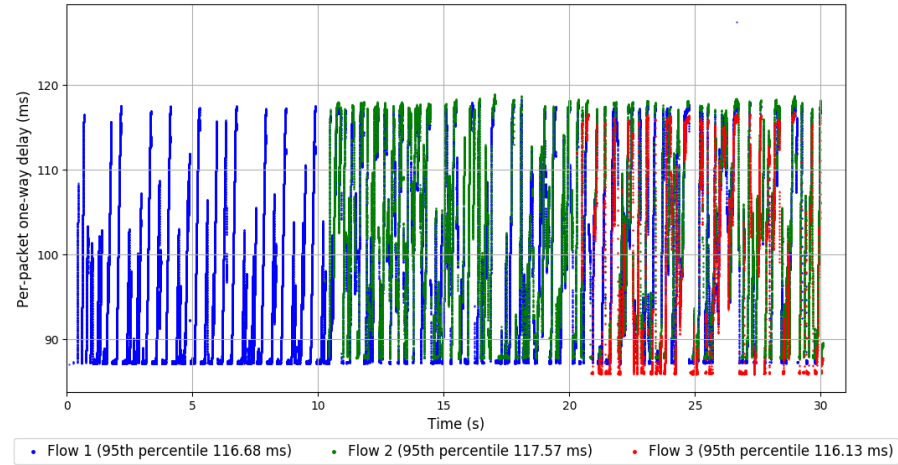
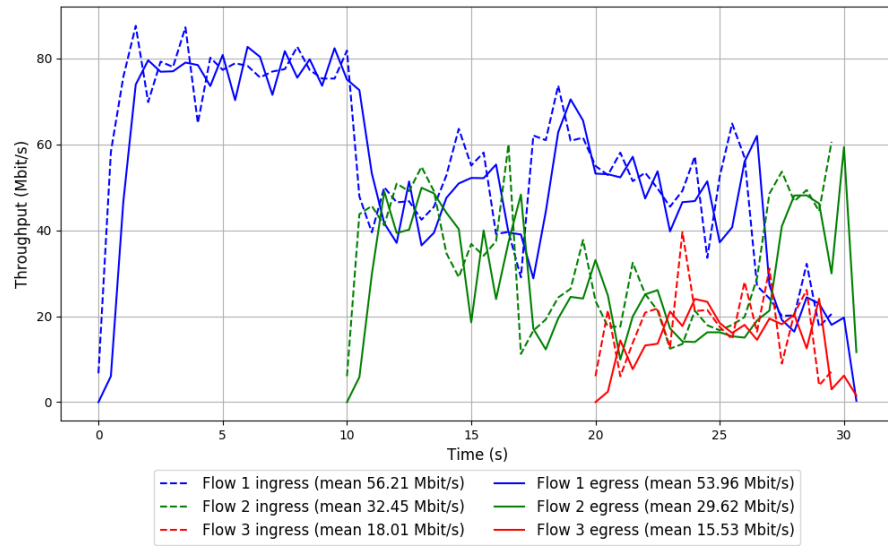
-- Flow 3:

Average throughput: 15.53 Mbit/s

95th percentile per-packet one-way delay: 116.128 ms

Loss rate: 13.82%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-08-09 09:58:31

End at: 2018-08-09 09:59:01

Local clock offset: -2.933 ms

Remote clock offset: 2.811 ms

Below is generated by plot.py at 2018-08-09 12:32:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.09 Mbit/s

95th percentile per-packet one-way delay: 114.566 ms

Loss rate: 5.83%

-- Flow 1:

Average throughput: 43.12 Mbit/s

95th percentile per-packet one-way delay: 114.217 ms

Loss rate: 4.02%

-- Flow 2:

Average throughput: 37.24 Mbit/s

95th percentile per-packet one-way delay: 112.965 ms

Loss rate: 8.03%

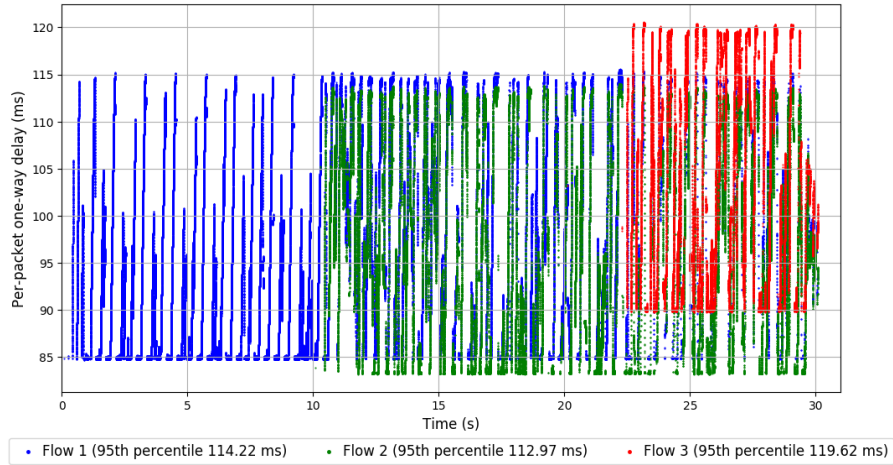
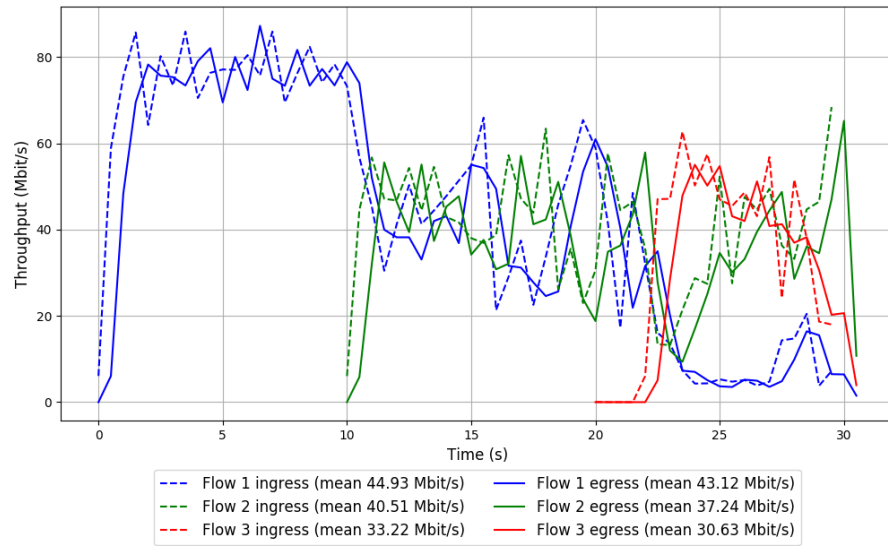
-- Flow 3:

Average throughput: 30.63 Mbit/s

95th percentile per-packet one-way delay: 119.618 ms

Loss rate: 7.81%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-08-09 10:19:41

End at: 2018-08-09 10:20:11

Local clock offset: -2.721 ms

Remote clock offset: 0.199 ms

Below is generated by plot.py at 2018-08-09 12:32:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.27 Mbit/s

95th percentile per-packet one-way delay: 111.281 ms

Loss rate: 6.47%

-- Flow 1:

Average throughput: 50.38 Mbit/s

95th percentile per-packet one-way delay: 111.469 ms

Loss rate: 4.85%

-- Flow 2:

Average throughput: 34.17 Mbit/s

95th percentile per-packet one-way delay: 110.206 ms

Loss rate: 8.69%

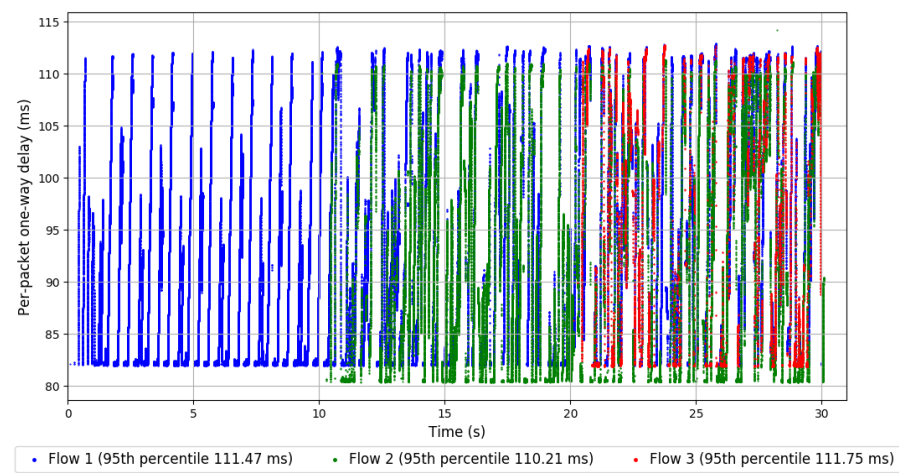
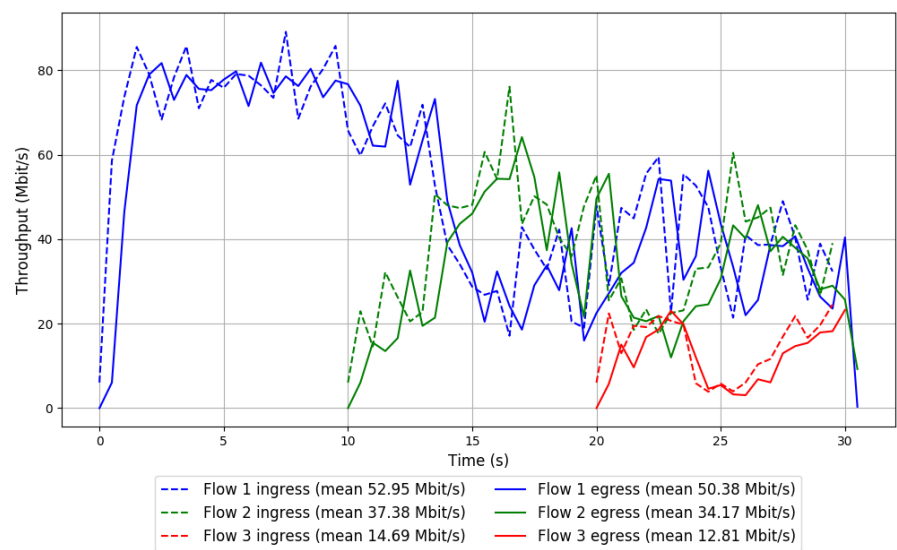
-- Flow 3:

Average throughput: 12.81 Mbit/s

95th percentile per-packet one-way delay: 111.752 ms

Loss rate: 12.77%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-08-09 10:40:53

End at: 2018-08-09 10:41:23

Local clock offset: -2.69 ms

Remote clock offset: 5.321 ms

Below is generated by plot.py at 2018-08-09 12:32:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.45 Mbit/s

95th percentile per-packet one-way delay: 116.160 ms

Loss rate: 4.70%

-- Flow 1:

Average throughput: 56.54 Mbit/s

95th percentile per-packet one-way delay: 116.837 ms

Loss rate: 2.68%

-- Flow 2:

Average throughput: 25.32 Mbit/s

95th percentile per-packet one-way delay: 115.536 ms

Loss rate: 8.87%

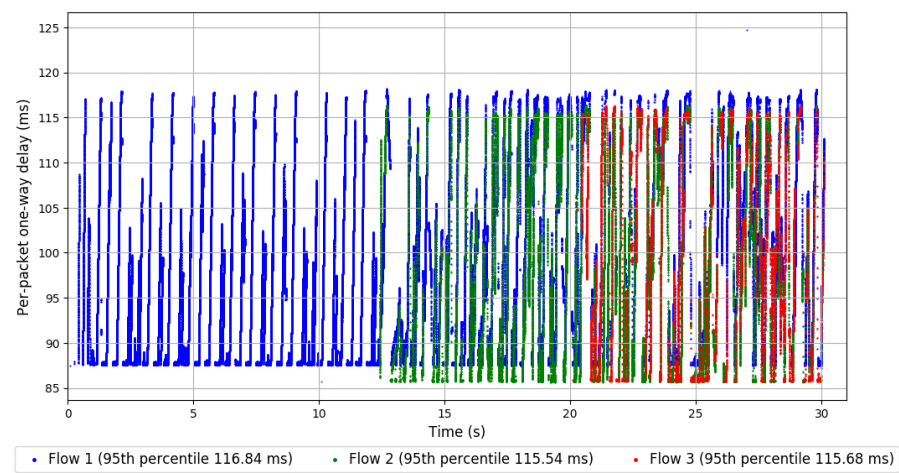
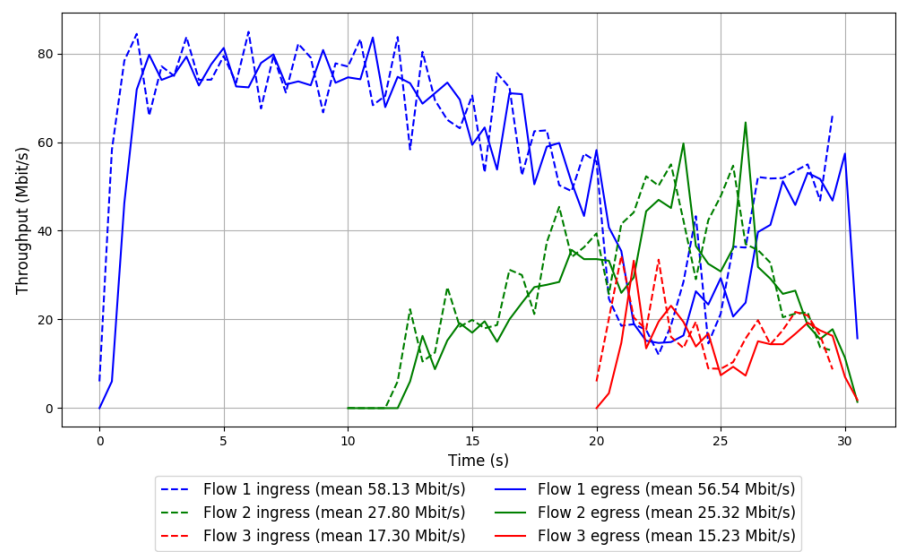
-- Flow 3:

Average throughput: 15.23 Mbit/s

95th percentile per-packet one-way delay: 115.679 ms

Loss rate: 11.75%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-08-09 11:02:06

End at: 2018-08-09 11:02:36

Local clock offset: -2.349 ms

Remote clock offset: 8.406 ms

Below is generated by plot.py at 2018-08-09 12:32:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.36 Mbit/s

95th percentile per-packet one-way delay: 116.395 ms

Loss rate: 5.57%

-- Flow 1:

Average throughput: 46.09 Mbit/s

95th percentile per-packet one-way delay: 116.370 ms

Loss rate: 4.23%

-- Flow 2:

Average throughput: 27.42 Mbit/s

95th percentile per-packet one-way delay: 116.722 ms

Loss rate: 8.79%

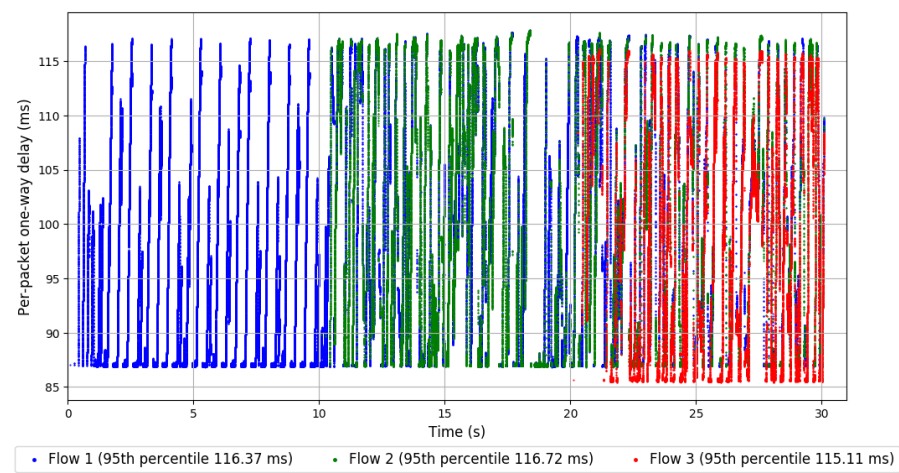
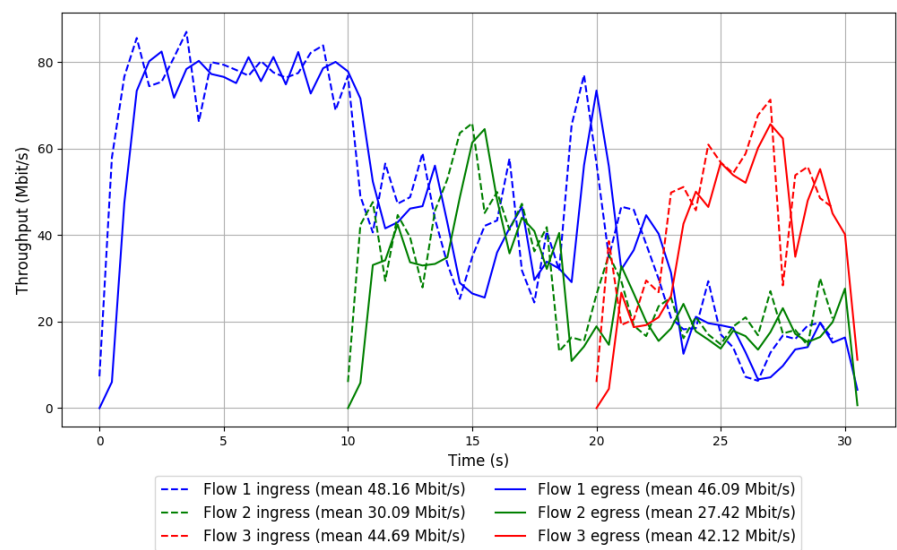
-- Flow 3:

Average throughput: 42.12 Mbit/s

95th percentile per-packet one-way delay: 115.106 ms

Loss rate: 5.58%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-08-09 11:23:20

End at: 2018-08-09 11:23:50

Local clock offset: -2.247 ms

Remote clock offset: 6.782 ms

Below is generated by plot.py at 2018-08-09 12:32:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.16 Mbit/s

95th percentile per-packet one-way delay: 119.586 ms

Loss rate: 5.99%

-- Flow 1:

Average throughput: 44.26 Mbit/s

95th percentile per-packet one-way delay: 114.631 ms

Loss rate: 4.43%

-- Flow 2:

Average throughput: 34.90 Mbit/s

95th percentile per-packet one-way delay: 122.121 ms

Loss rate: 7.95%

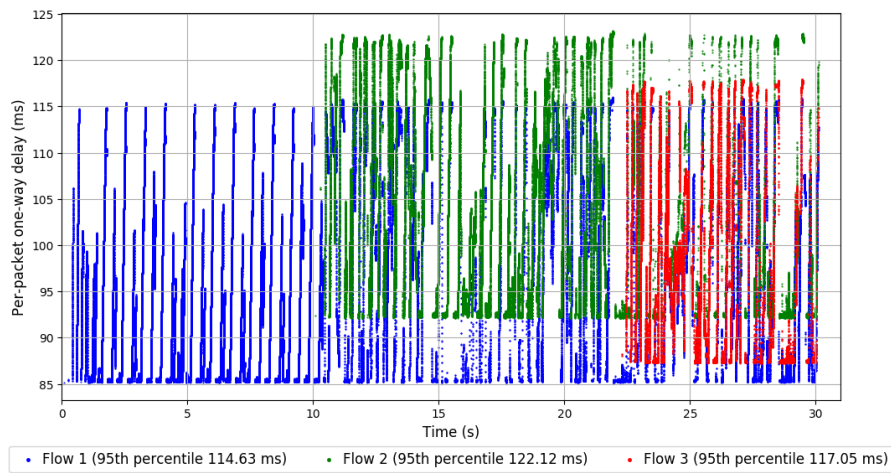
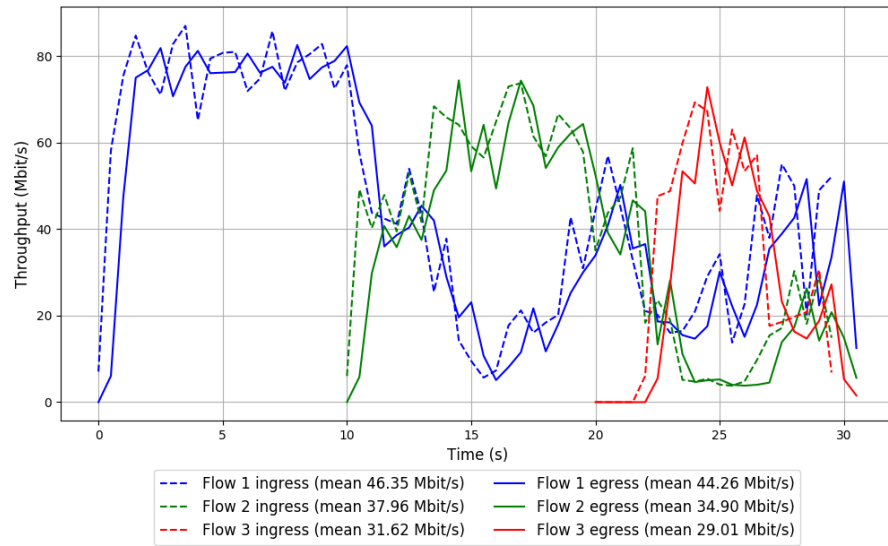
-- Flow 3:

Average throughput: 29.01 Mbit/s

95th percentile per-packet one-way delay: 117.054 ms

Loss rate: 8.17%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-08-09 11:44:37

End at: 2018-08-09 11:45:07

Local clock offset: -2.125 ms

Remote clock offset: 4.261 ms

Below is generated by plot.py at 2018-08-09 12:34:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.99 Mbit/s

95th percentile per-packet one-way delay: 114.431 ms

Loss rate: 5.86%

-- Flow 1:

Average throughput: 42.91 Mbit/s

95th percentile per-packet one-way delay: 114.175 ms

Loss rate: 4.02%

-- Flow 2:

Average throughput: 43.88 Mbit/s

95th percentile per-packet one-way delay: 114.289 ms

Loss rate: 7.23%

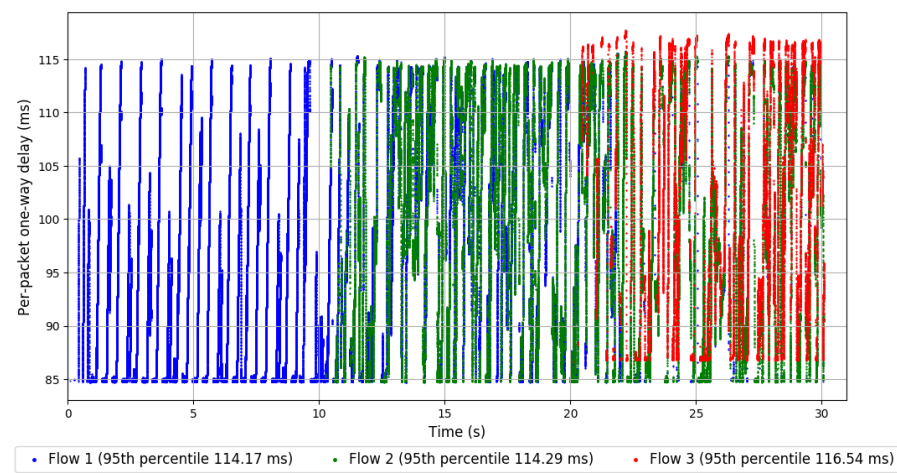
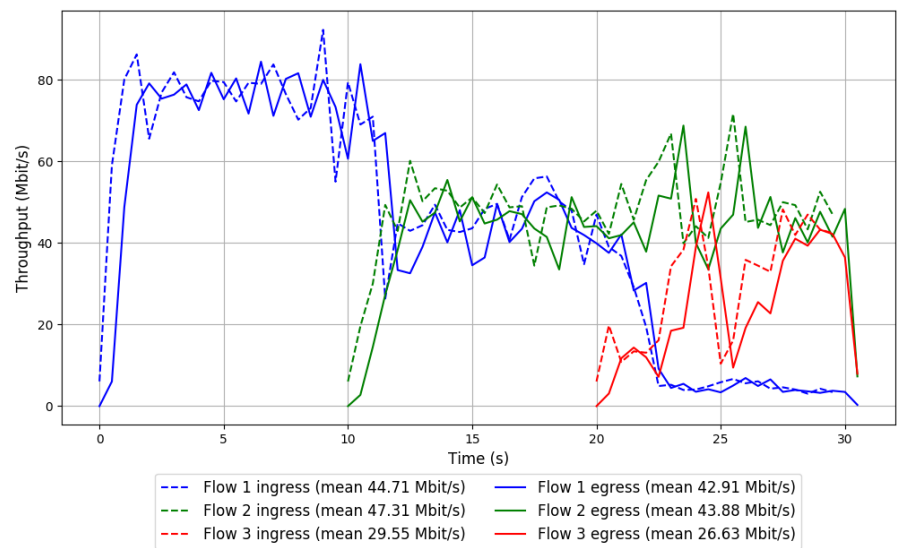
-- Flow 3:

Average throughput: 26.63 Mbit/s

95th percentile per-packet one-way delay: 116.542 ms

Loss rate: 9.83%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-08-09 12:05:49

End at: 2018-08-09 12:06:19

Local clock offset: -2.306 ms

Remote clock offset: 6.217 ms

Below is generated by plot.py at 2018-08-09 12:34:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.06 Mbit/s

95th percentile per-packet one-way delay: 114.727 ms

Loss rate: 6.24%

-- Flow 1:

Average throughput: 43.95 Mbit/s

95th percentile per-packet one-way delay: 114.593 ms

Loss rate: 4.76%

-- Flow 2:

Average throughput: 42.29 Mbit/s

95th percentile per-packet one-way delay: 114.823 ms

Loss rate: 7.24%

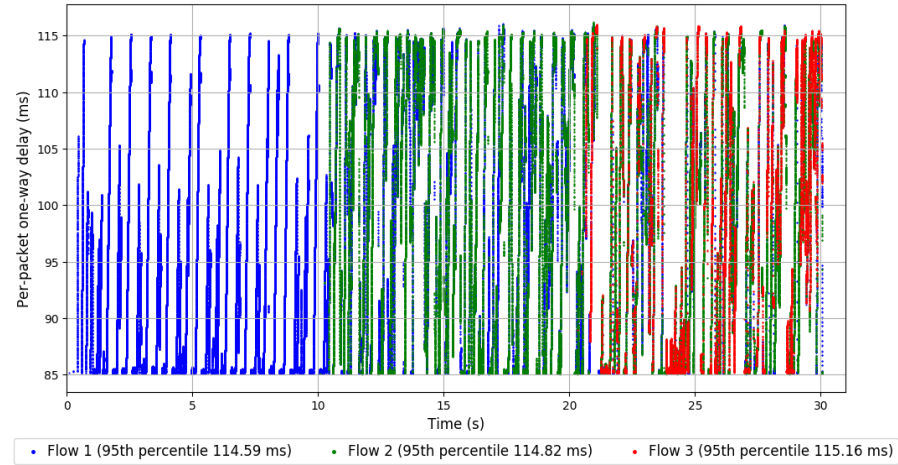
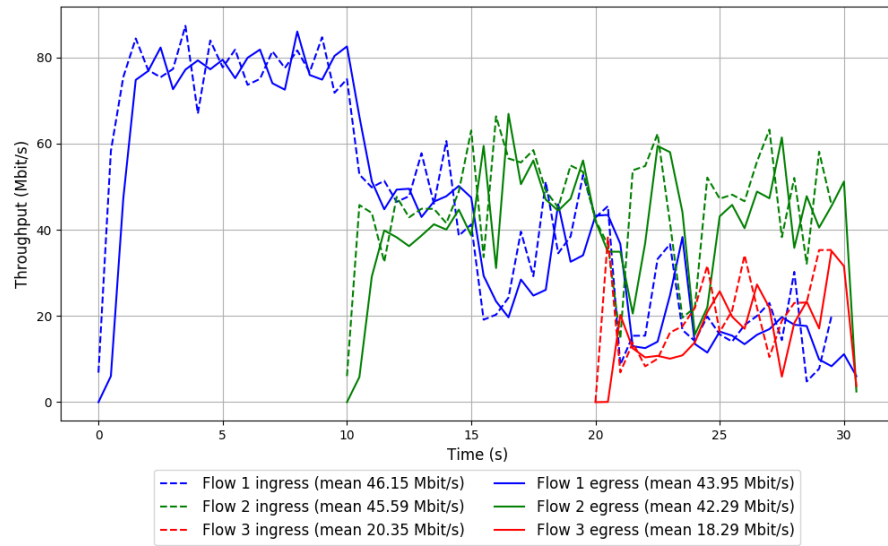
-- Flow 3:

Average throughput: 18.29 Mbit/s

95th percentile per-packet one-way delay: 115.160 ms

Loss rate: 11.81%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-08-09 08:48:36

End at: 2018-08-09 08:49:06

Local clock offset: -8.216 ms

Remote clock offset: 7.339 ms

Below is generated by plot.py at 2018-08-09 12:34:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 61.37 Mbit/s

95th percentile per-packet one-way delay: 96.024 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 27.08 Mbit/s

95th percentile per-packet one-way delay: 96.977 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 32.54 Mbit/s

95th percentile per-packet one-way delay: 96.388 ms

Loss rate: 0.61%

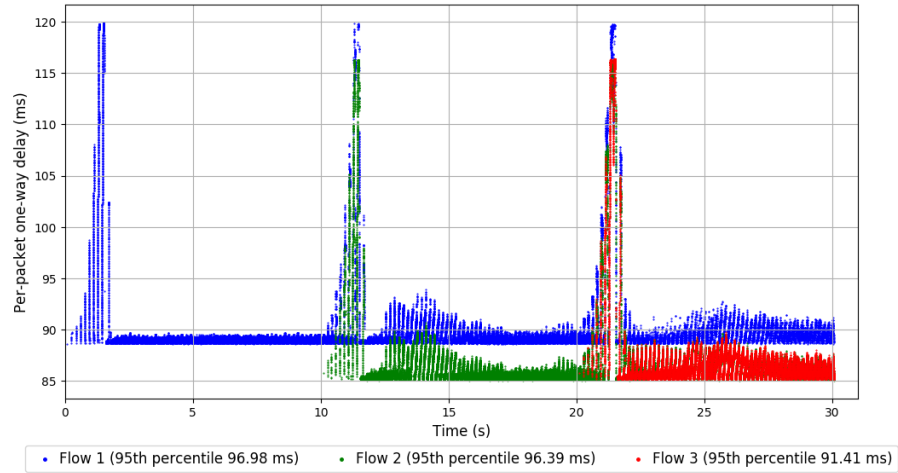
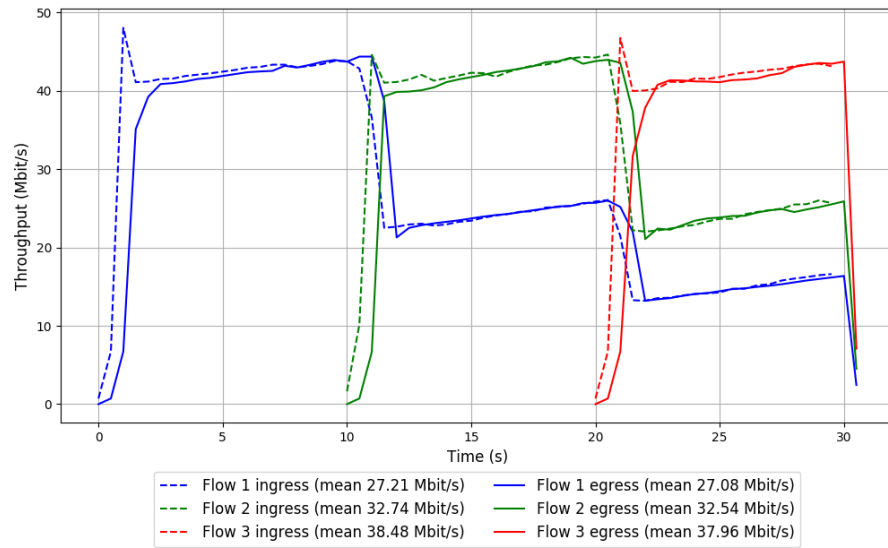
-- Flow 3:

Average throughput: 37.96 Mbit/s

95th percentile per-packet one-way delay: 91.413 ms

Loss rate: 1.36%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-08-09 09:09:48

End at: 2018-08-09 09:10:18

Local clock offset: -8.301 ms

Remote clock offset: 0.935 ms

Below is generated by plot.py at 2018-08-09 12:34:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.04 Mbit/s

95th percentile per-packet one-way delay: 94.815 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 22.89 Mbit/s

95th percentile per-packet one-way delay: 94.926 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 18.07 Mbit/s

95th percentile per-packet one-way delay: 99.585 ms

Loss rate: 1.55%

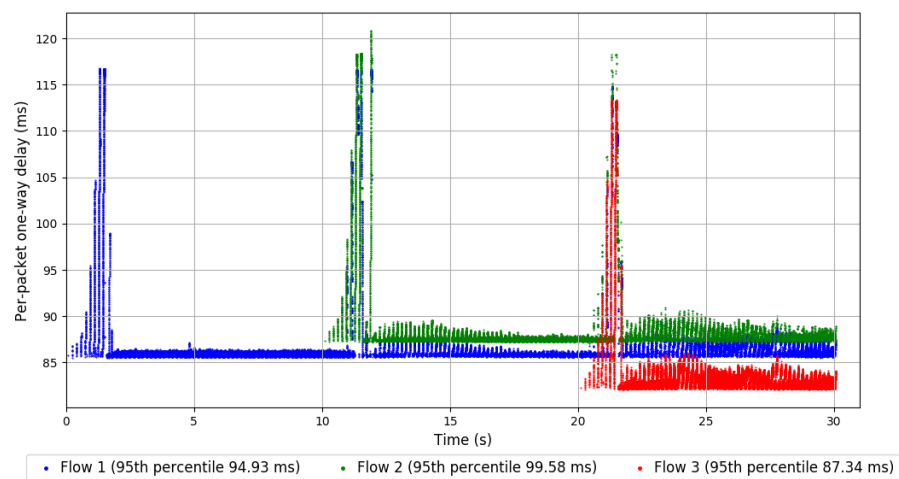
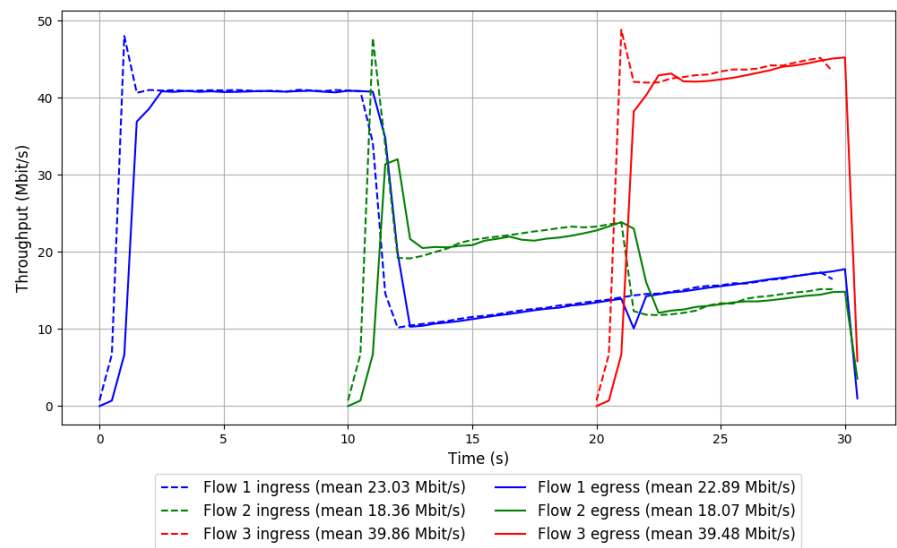
-- Flow 3:

Average throughput: 39.48 Mbit/s

95th percentile per-packet one-way delay: 87.340 ms

Loss rate: 0.96%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-08-09 09:31:01

End at: 2018-08-09 09:31:31

Local clock offset: -4.008 ms

Remote clock offset: 4.246 ms

Below is generated by plot.py at 2018-08-09 12:34:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.91 Mbit/s

95th percentile per-packet one-way delay: 92.604 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 25.15 Mbit/s

95th percentile per-packet one-way delay: 89.379 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 18.54 Mbit/s

95th percentile per-packet one-way delay: 100.458 ms

Loss rate: 1.24%

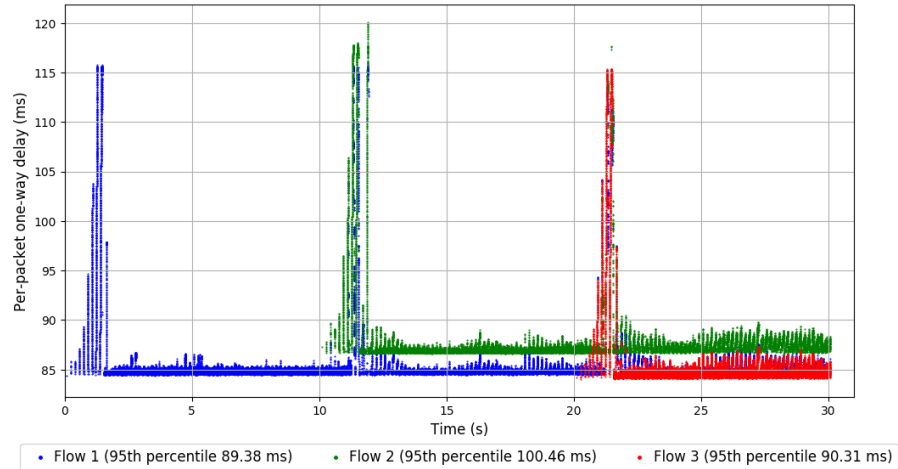
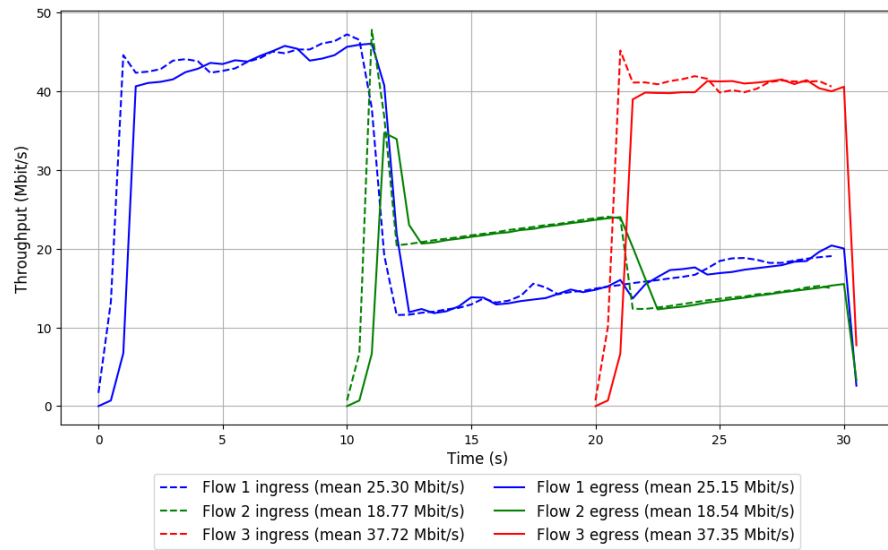
-- Flow 3:

Average throughput: 37.35 Mbit/s

95th percentile per-packet one-way delay: 90.308 ms

Loss rate: 0.98%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-08-09 09:52:18

End at: 2018-08-09 09:52:48

Local clock offset: -2.958 ms

Remote clock offset: 5.218 ms

Below is generated by plot.py at 2018-08-09 12:34:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 59.69 Mbit/s

95th percentile per-packet one-way delay: 99.546 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 26.00 Mbit/s

95th percentile per-packet one-way delay: 98.093 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 32.67 Mbit/s

95th percentile per-packet one-way delay: 100.894 ms

Loss rate: 0.63%

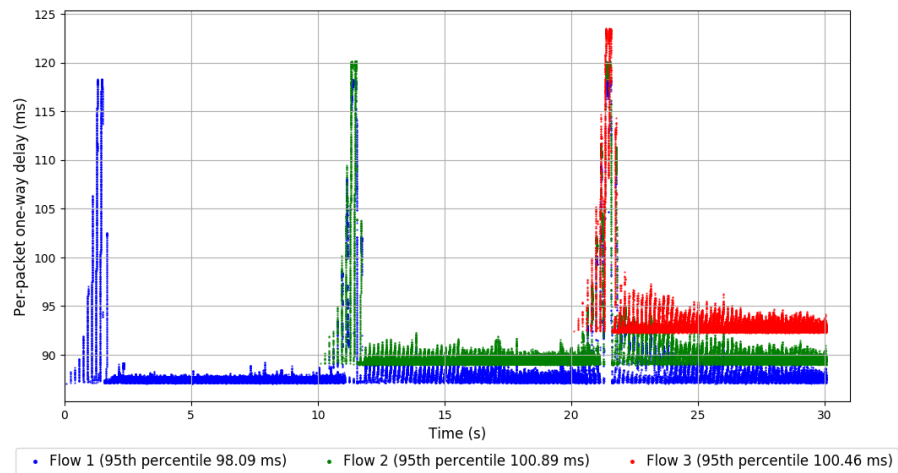
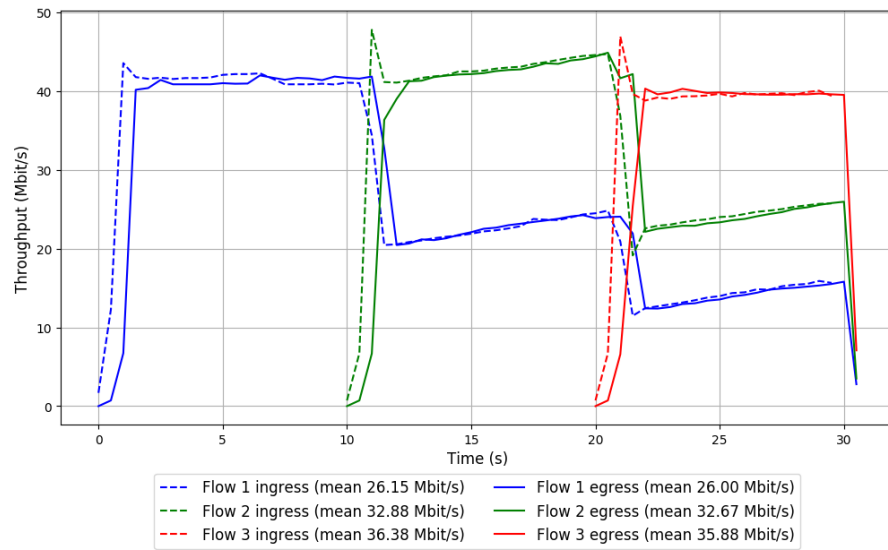
-- Flow 3:

Average throughput: 35.88 Mbit/s

95th percentile per-packet one-way delay: 100.463 ms

Loss rate: 1.41%

Run 4: Report of TCP Vegas — Data Link

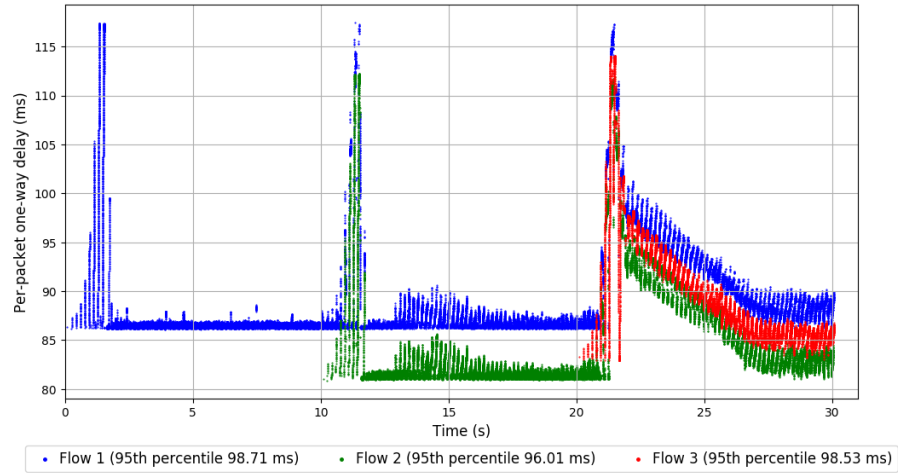
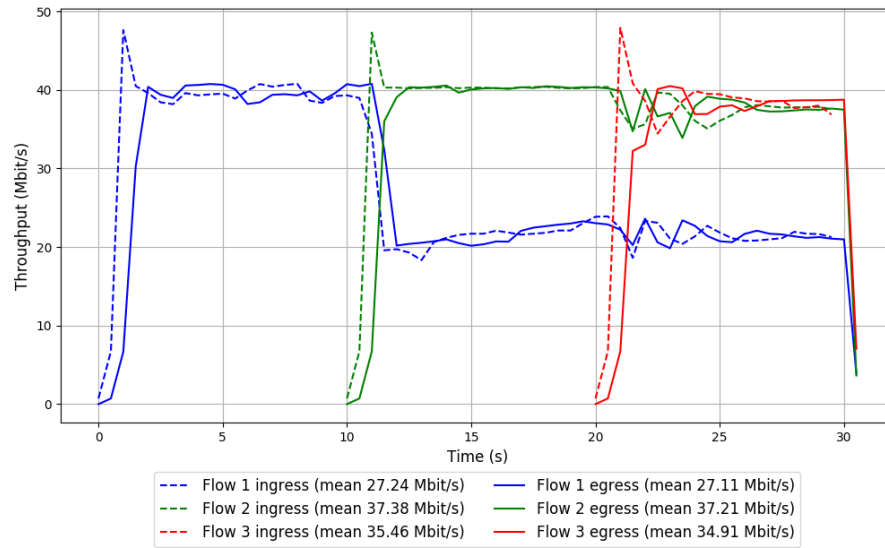


Run 5: Statistics of TCP Vegas

Start at: 2018-08-09 10:13:28
End at: 2018-08-09 10:13:58
Local clock offset: -2.66 ms
Remote clock offset: -0.822 ms

Below is generated by plot.py at 2018-08-09 12:34:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 63.48 Mbit/s
95th percentile per-packet one-way delay: 98.151 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 27.11 Mbit/s
95th percentile per-packet one-way delay: 98.710 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 37.21 Mbit/s
95th percentile per-packet one-way delay: 96.013 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 34.91 Mbit/s
95th percentile per-packet one-way delay: 98.534 ms
Loss rate: 1.56%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-08-09 10:34:39

End at: 2018-08-09 10:35:09

Local clock offset: -2.714 ms

Remote clock offset: 0.219 ms

Below is generated by plot.py at 2018-08-09 12:34:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 59.91 Mbit/s

95th percentile per-packet one-way delay: 95.431 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 31.15 Mbit/s

95th percentile per-packet one-way delay: 95.136 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 32.52 Mbit/s

95th percentile per-packet one-way delay: 95.103 ms

Loss rate: 0.69%

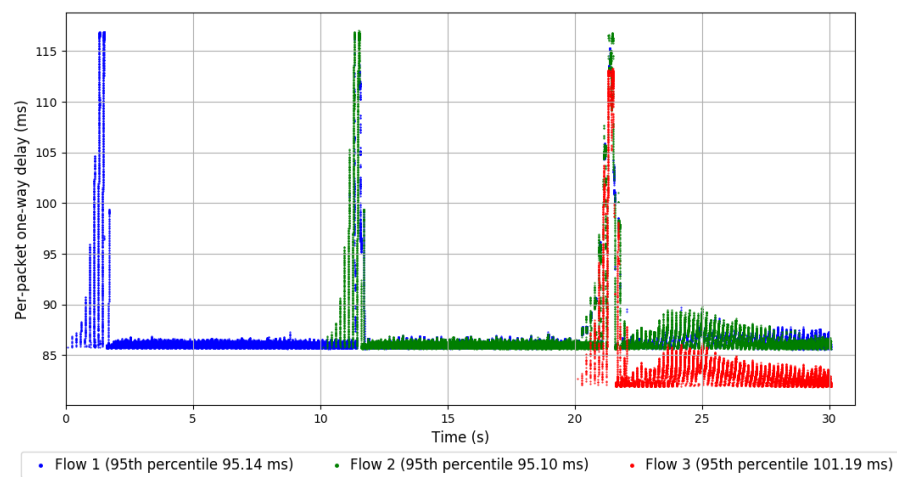
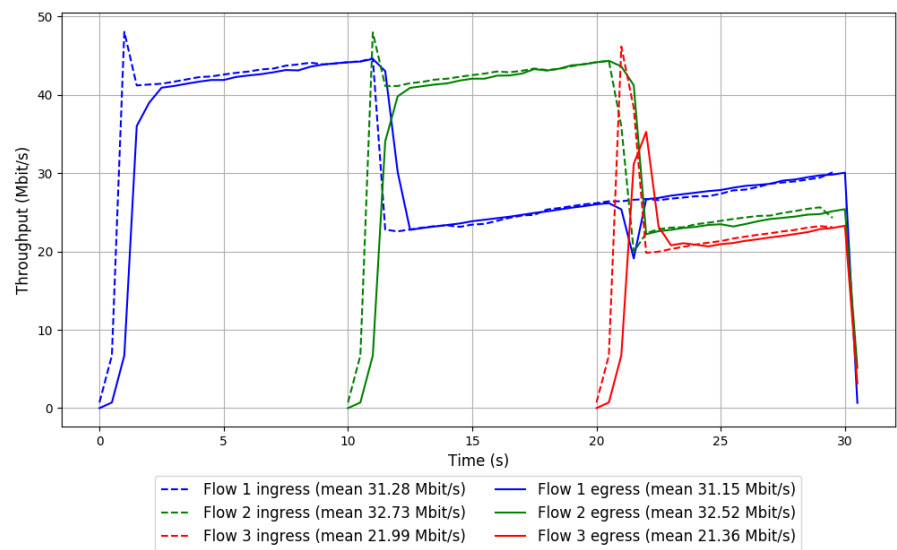
-- Flow 3:

Average throughput: 21.36 Mbit/s

95th percentile per-packet one-way delay: 101.189 ms

Loss rate: 2.87%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-08-09 10:55:52

End at: 2018-08-09 10:56:22

Local clock offset: -2.433 ms

Remote clock offset: 3.161 ms

Below is generated by plot.py at 2018-08-09 12:34:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 50.96 Mbit/s

95th percentile per-packet one-way delay: 89.994 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 23.01 Mbit/s

95th percentile per-packet one-way delay: 91.466 ms

Loss rate: 0.92%

-- Flow 2:

Average throughput: 23.08 Mbit/s

95th percentile per-packet one-way delay: 89.833 ms

Loss rate: 0.79%

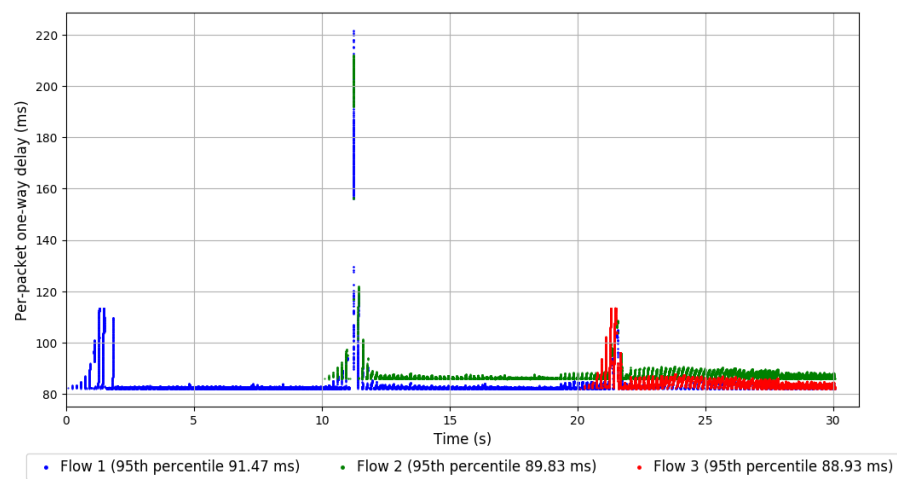
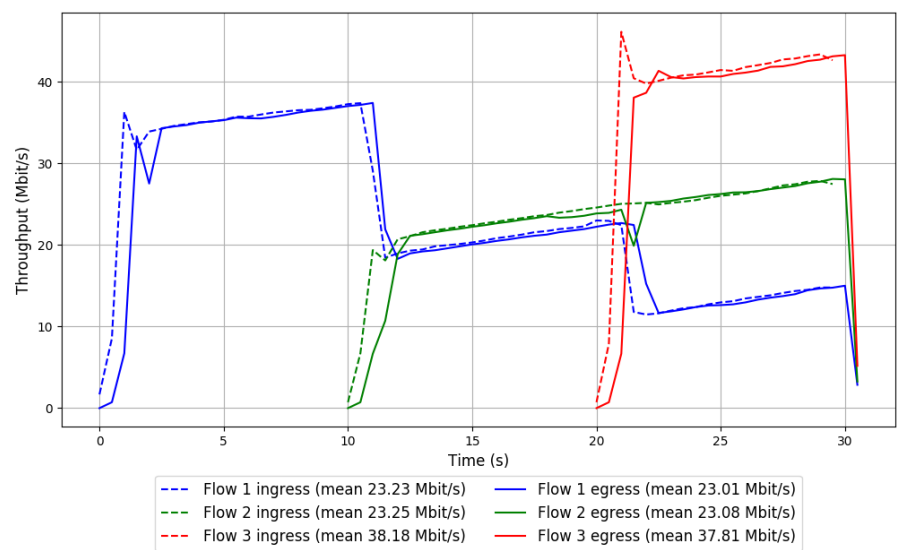
-- Flow 3:

Average throughput: 37.81 Mbit/s

95th percentile per-packet one-way delay: 88.934 ms

Loss rate: 1.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-08-09 11:17:05

End at: 2018-08-09 11:17:35

Local clock offset: -2.119 ms

Remote clock offset: 6.215 ms

Below is generated by plot.py at 2018-08-09 12:34:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 59.04 Mbit/s

95th percentile per-packet one-way delay: 97.704 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 24.87 Mbit/s

95th percentile per-packet one-way delay: 100.520 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 31.85 Mbit/s

95th percentile per-packet one-way delay: 97.311 ms

Loss rate: 0.54%

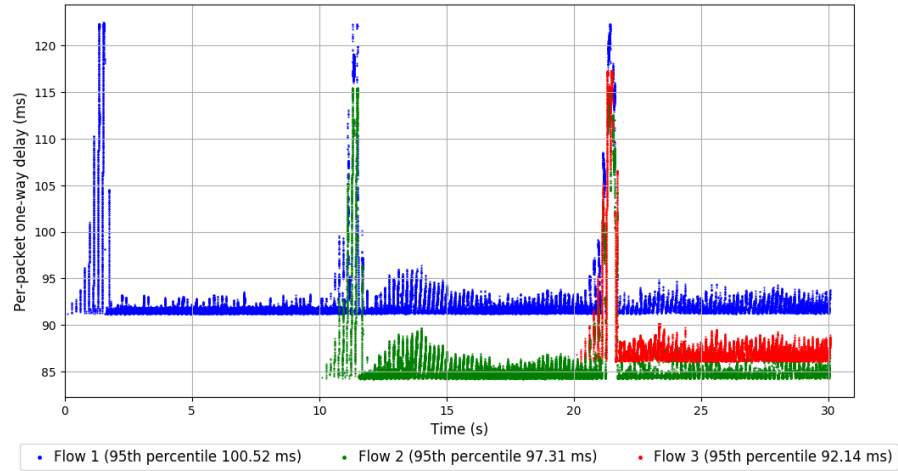
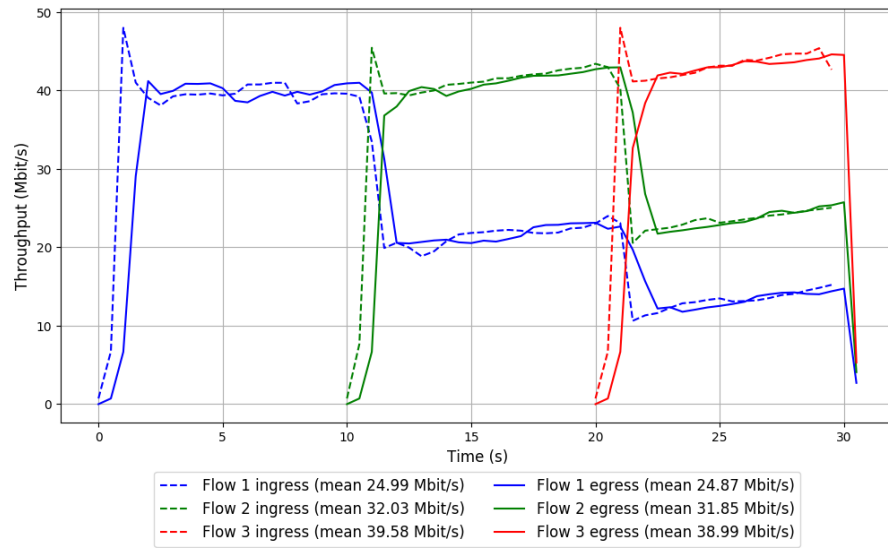
-- Flow 3:

Average throughput: 38.99 Mbit/s

95th percentile per-packet one-way delay: 92.138 ms

Loss rate: 1.49%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-08-09 11:38:23

End at: 2018-08-09 11:38:53

Local clock offset: -2.214 ms

Remote clock offset: 0.426 ms

Below is generated by plot.py at 2018-08-09 12:34:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 59.83 Mbit/s

95th percentile per-packet one-way delay: 88.079 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 26.38 Mbit/s

95th percentile per-packet one-way delay: 87.160 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 31.28 Mbit/s

95th percentile per-packet one-way delay: 88.930 ms

Loss rate: 0.61%

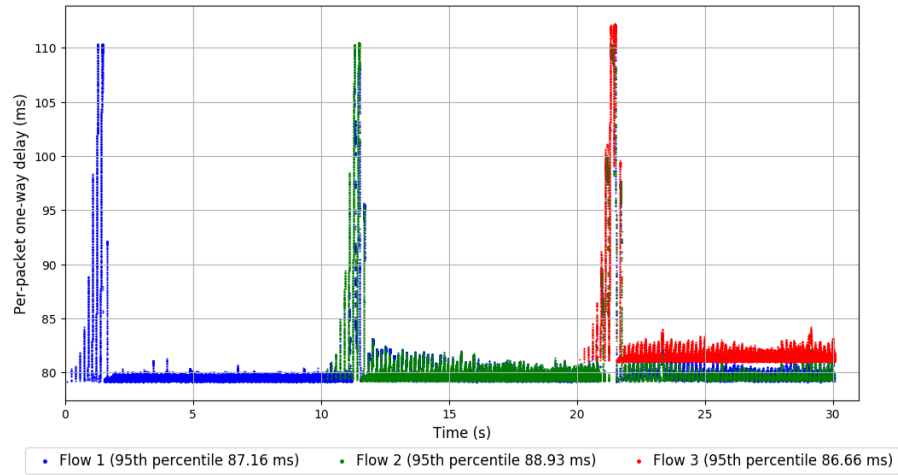
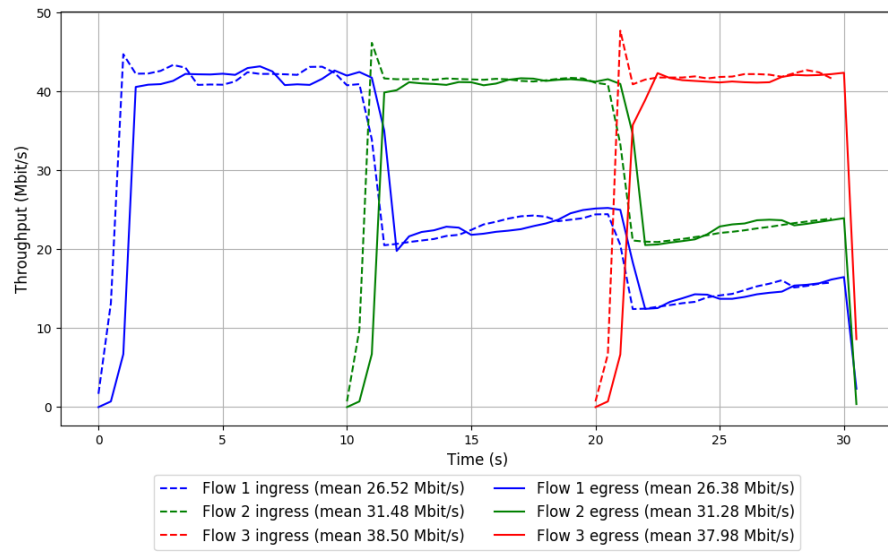
-- Flow 3:

Average throughput: 37.98 Mbit/s

95th percentile per-packet one-way delay: 86.655 ms

Loss rate: 1.36%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-08-09 11:59:36

End at: 2018-08-09 12:00:06

Local clock offset: -2.325 ms

Remote clock offset: 0.319 ms

Below is generated by plot.py at 2018-08-09 12:34:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 59.03 Mbit/s

95th percentile per-packet one-way delay: 89.951 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 29.55 Mbit/s

95th percentile per-packet one-way delay: 88.230 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 25.72 Mbit/s

95th percentile per-packet one-way delay: 90.903 ms

Loss rate: 0.72%

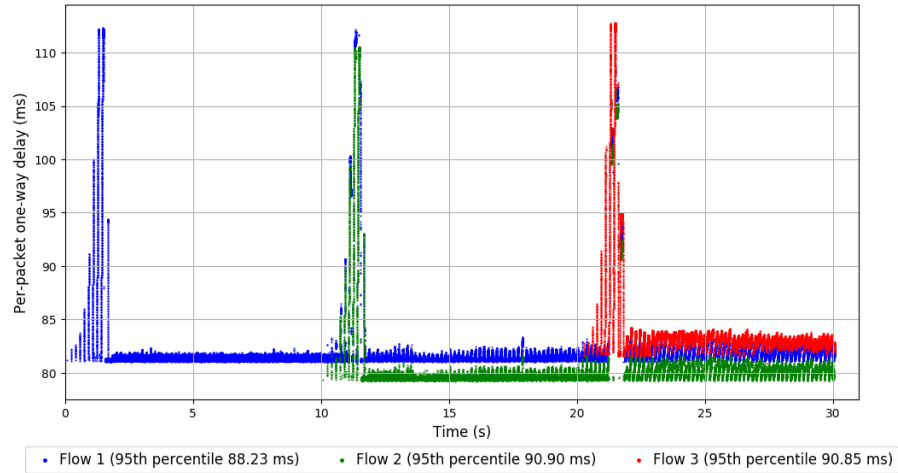
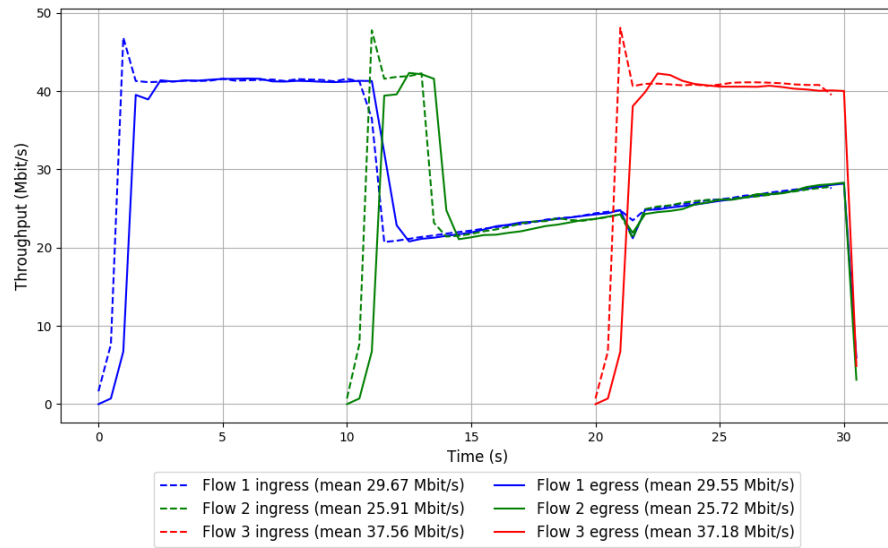
-- Flow 3:

Average throughput: 37.18 Mbit/s

95th percentile per-packet one-way delay: 90.846 ms

Loss rate: 1.02%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-08-09 08:59:42

End at: 2018-08-09 09:00:12

Local clock offset: -8.258 ms

Remote clock offset: 1.513 ms

Below is generated by plot.py at 2018-08-09 12:34:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.41 Mbit/s

95th percentile per-packet one-way delay: 121.610 ms

Loss rate: 41.17%

-- Flow 1:

Average throughput: 25.53 Mbit/s

95th percentile per-packet one-way delay: 110.868 ms

Loss rate: 16.21%

-- Flow 2:

Average throughput: 28.33 Mbit/s

95th percentile per-packet one-way delay: 161.896 ms

Loss rate: 60.57%

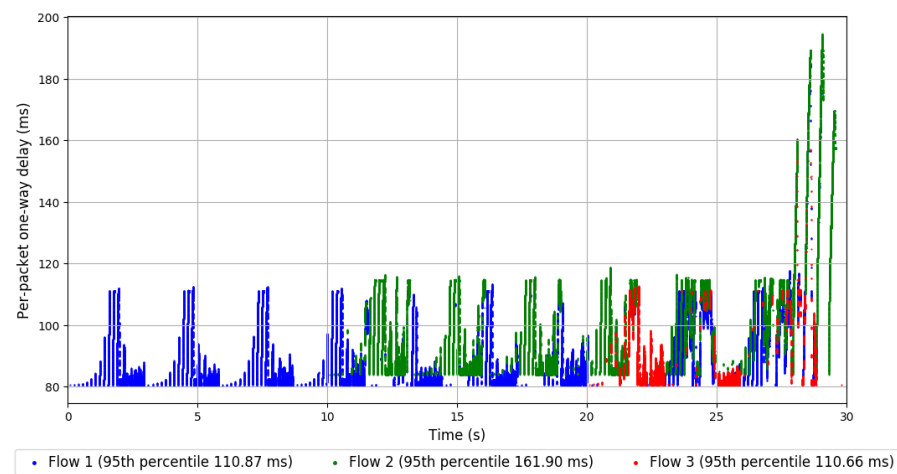
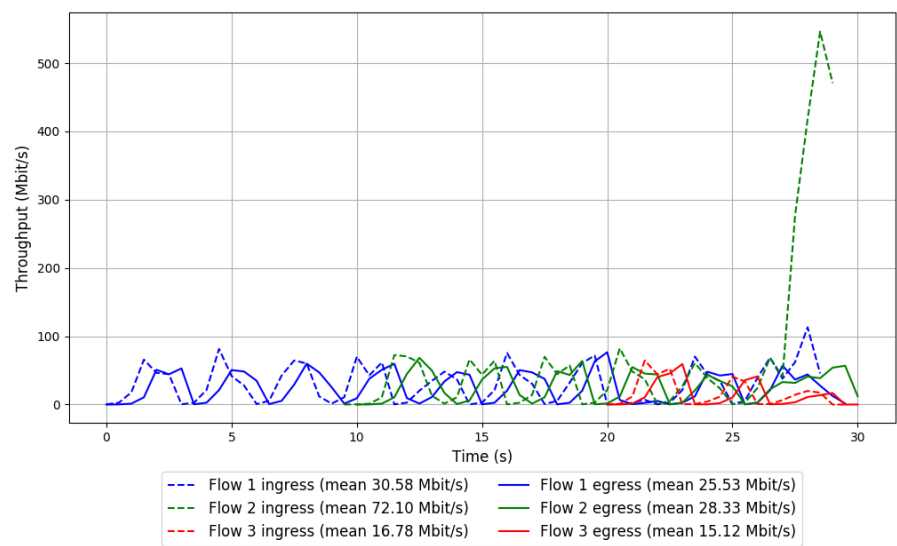
-- Flow 3:

Average throughput: 15.12 Mbit/s

95th percentile per-packet one-way delay: 110.657 ms

Loss rate: 9.90%

Run 1: Report of Verus — Data Link

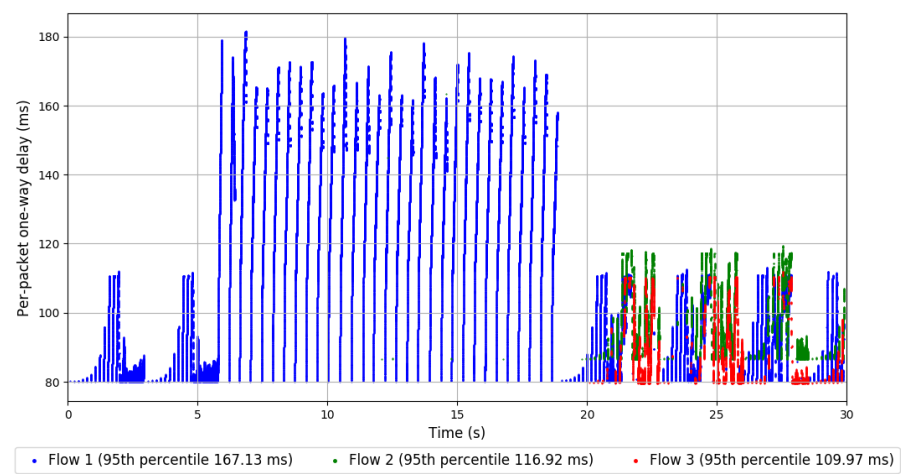
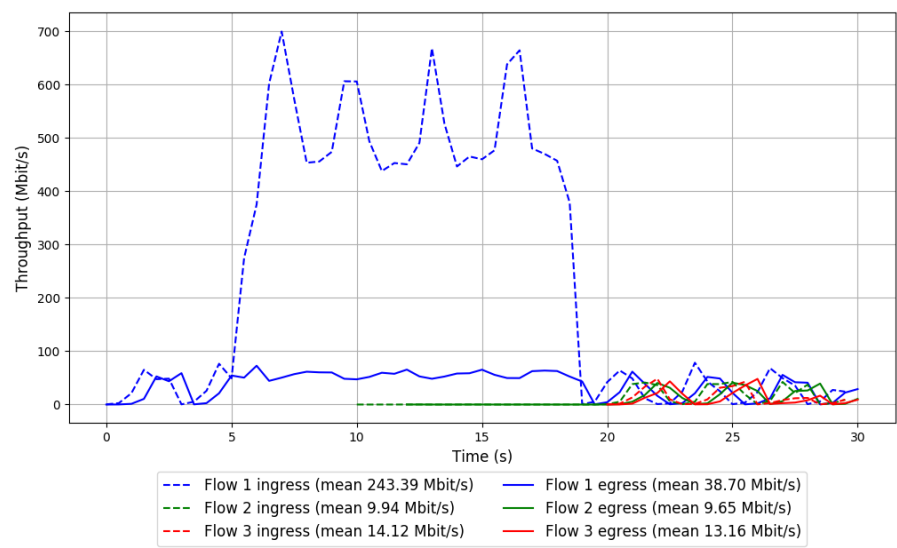


Run 2: Statistics of Verus

Start at: 2018-08-09 09:20:56
End at: 2018-08-09 09:21:26
Local clock offset: -6.096 ms
Remote clock offset: -0.372 ms

Below is generated by plot.py at 2018-08-09 12:34:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 48.75 Mbit/s
95th percentile per-packet one-way delay: 165.454 ms
Loss rate: 80.84%
-- Flow 1:
Average throughput: 38.70 Mbit/s
95th percentile per-packet one-way delay: 167.128 ms
Loss rate: 84.09%
-- Flow 2:
Average throughput: 9.65 Mbit/s
95th percentile per-packet one-way delay: 116.921 ms
Loss rate: 12.60%
-- Flow 3:
Average throughput: 13.16 Mbit/s
95th percentile per-packet one-way delay: 109.968 ms
Loss rate: 6.65%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-08-09 09:42:06

End at: 2018-08-09 09:42:36

Local clock offset: -2.811 ms

Remote clock offset: 4.17 ms

Below is generated by plot.py at 2018-08-09 12:34:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 46.48 Mbit/s

95th percentile per-packet one-way delay: 174.554 ms

Loss rate: 76.03%

-- Flow 1:

Average throughput: 20.48 Mbit/s

95th percentile per-packet one-way delay: 115.655 ms

Loss rate: 46.35%

-- Flow 2:

Average throughput: 34.41 Mbit/s

95th percentile per-packet one-way delay: 180.309 ms

Loss rate: 84.93%

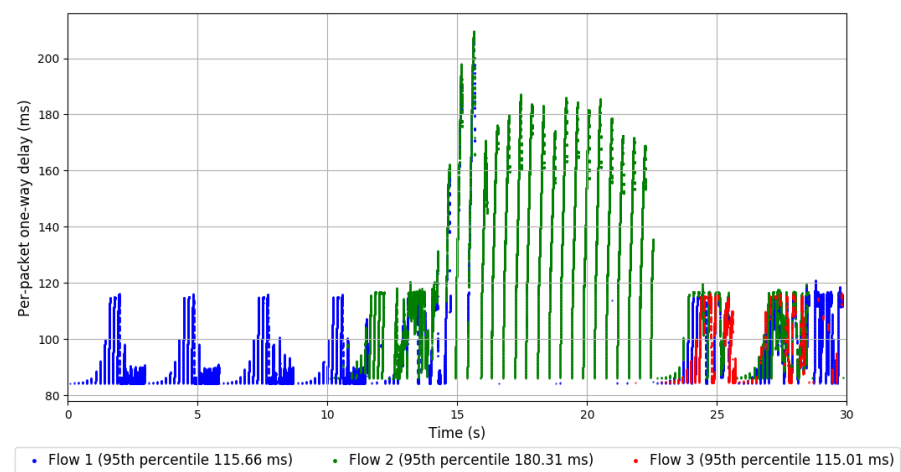
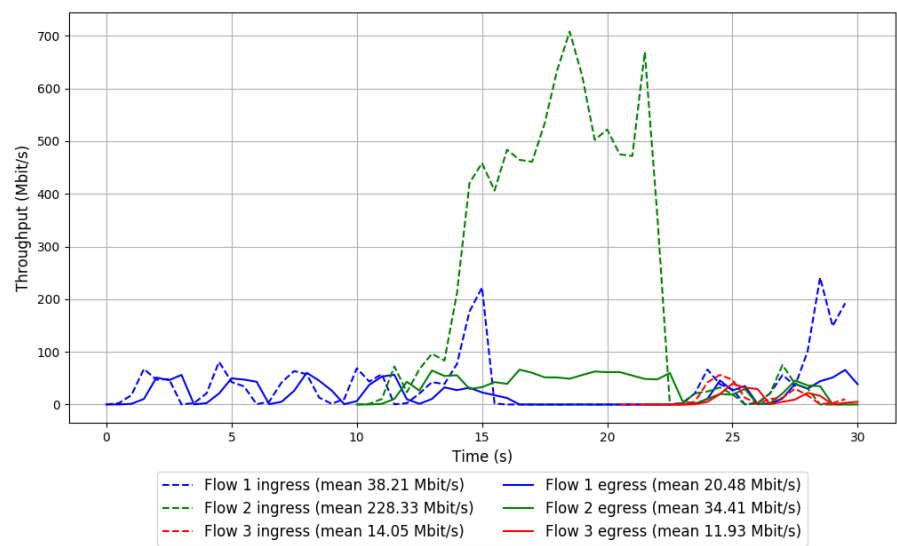
-- Flow 3:

Average throughput: 11.93 Mbit/s

95th percentile per-packet one-way delay: 115.010 ms

Loss rate: 24.35%

Run 3: Report of Verus — Data Link

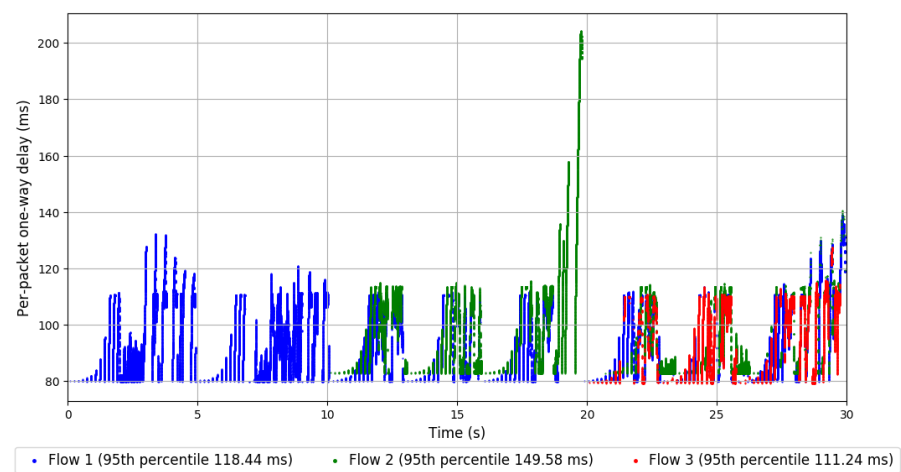
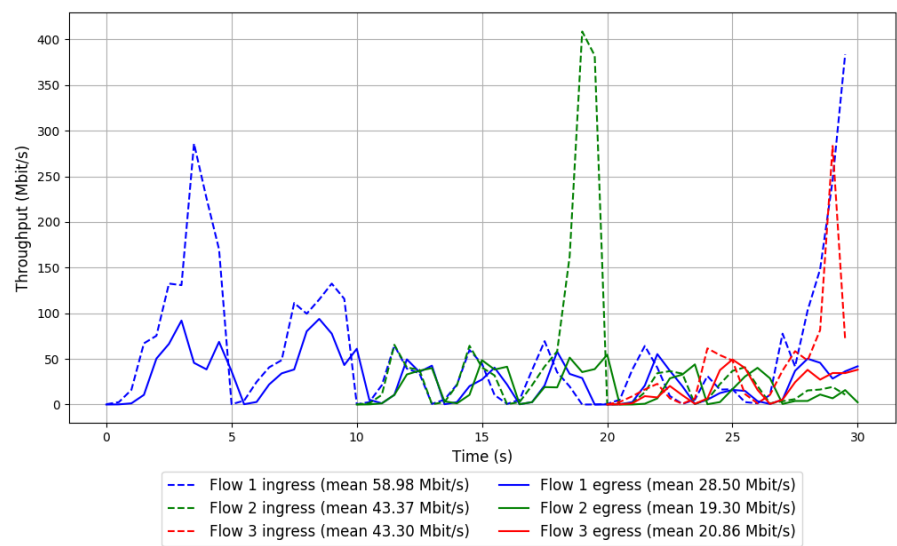


Run 4: Statistics of Verus

Start at: 2018-08-09 10:03:23
End at: 2018-08-09 10:03:53
Local clock offset: -2.909 ms
Remote clock offset: -0.892 ms

Below is generated by plot.py at 2018-08-09 12:34:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 48.05 Mbit/s
95th percentile per-packet one-way delay: 121.257 ms
Loss rate: 52.70%
-- Flow 1:
Average throughput: 28.50 Mbit/s
95th percentile per-packet one-way delay: 118.440 ms
Loss rate: 51.62%
-- Flow 2:
Average throughput: 19.30 Mbit/s
95th percentile per-packet one-way delay: 149.576 ms
Loss rate: 55.42%
-- Flow 3:
Average throughput: 20.86 Mbit/s
95th percentile per-packet one-way delay: 111.243 ms
Loss rate: 51.65%

Run 4: Report of Verus — Data Link

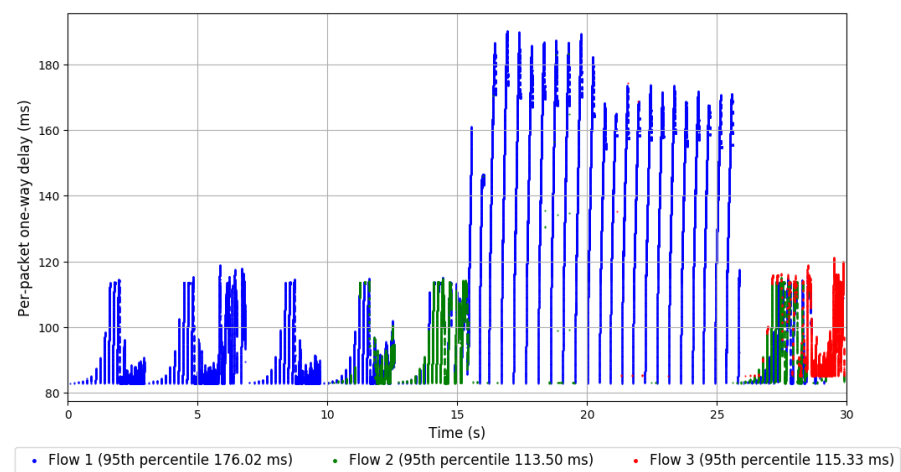
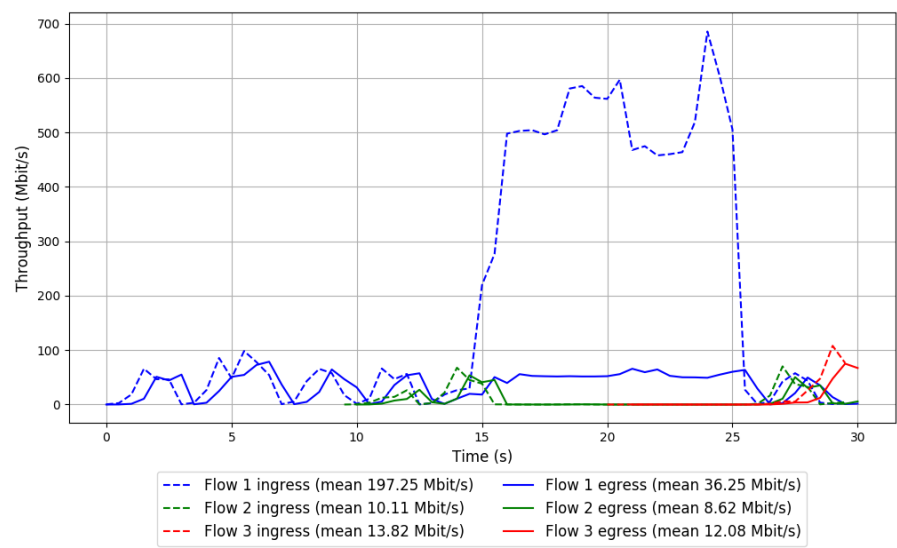


Run 5: Statistics of Verus

Start at: 2018-08-09 10:24:34
End at: 2018-08-09 10:25:04
Local clock offset: -2.766 ms
Remote clock offset: 3.053 ms

```
# Below is generated by plot.py at 2018-08-09 12:35:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 45.48 Mbit/s
95th percentile per-packet one-way delay: 172.685 ms
Loss rate: 78.14%
-- Flow 1:
Average throughput: 36.25 Mbit/s
95th percentile per-packet one-way delay: 176.022 ms
Loss rate: 81.60%
-- Flow 2:
Average throughput: 8.62 Mbit/s
95th percentile per-packet one-way delay: 113.495 ms
Loss rate: 14.68%
-- Flow 3:
Average throughput: 12.08 Mbit/s
95th percentile per-packet one-way delay: 115.326 ms
Loss rate: 21.97%
```


Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-08-09 10:45:48

End at: 2018-08-09 10:46:18

Local clock offset: -2.53 ms

Remote clock offset: 6.176 ms

Below is generated by plot.py at 2018-08-09 12:35:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 40.10 Mbit/s

95th percentile per-packet one-way delay: 164.113 ms

Loss rate: 72.61%

-- Flow 1:

Average throughput: 33.07 Mbit/s

95th percentile per-packet one-way delay: 164.737 ms

Loss rate: 75.34%

-- Flow 2:

Average throughput: 9.94 Mbit/s

95th percentile per-packet one-way delay: 138.116 ms

Loss rate: 44.13%

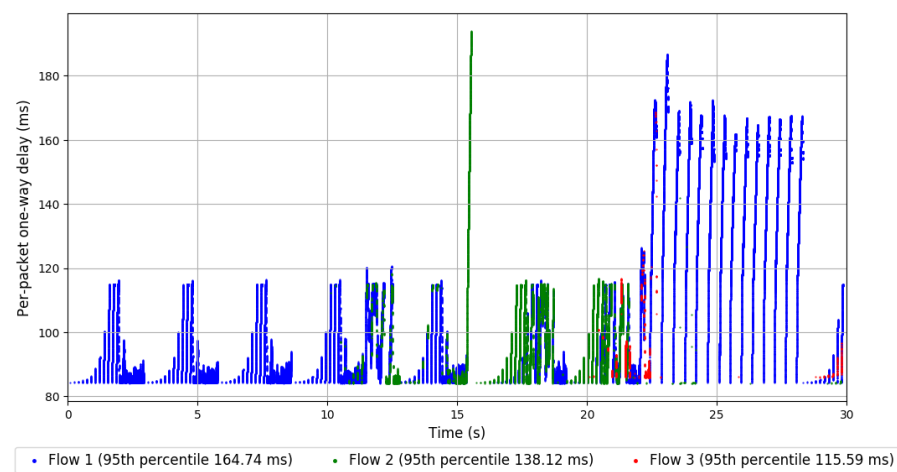
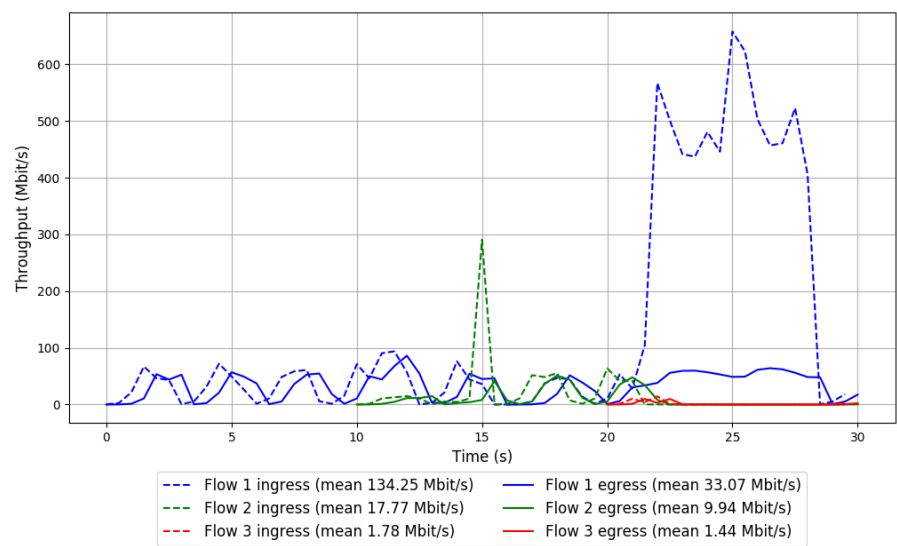
-- Flow 3:

Average throughput: 1.44 Mbit/s

95th percentile per-packet one-way delay: 115.591 ms

Loss rate: 18.99%

Run 6: Report of Verus — Data Link

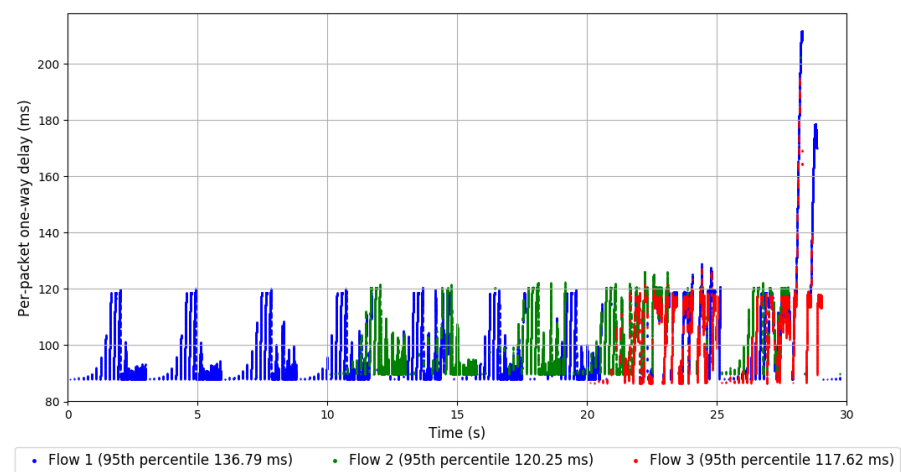
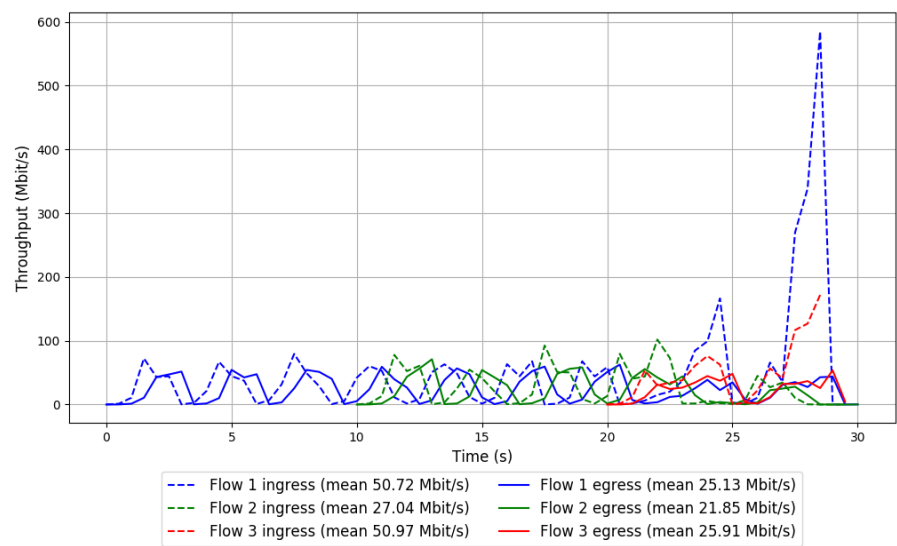


Run 7: Statistics of Verus

Start at: 2018-08-09 11:07:00
End at: 2018-08-09 11:07:30
Local clock offset: -2.32 ms
Remote clock offset: 7.603 ms

Below is generated by plot.py at 2018-08-09 12:35:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 47.39 Mbit/s
95th percentile per-packet one-way delay: 120.315 ms
Loss rate: 43.52%
-- Flow 1:
Average throughput: 25.13 Mbit/s
95th percentile per-packet one-way delay: 136.795 ms
Loss rate: 50.45%
-- Flow 2:
Average throughput: 21.85 Mbit/s
95th percentile per-packet one-way delay: 120.246 ms
Loss rate: 19.20%
-- Flow 3:
Average throughput: 25.91 Mbit/s
95th percentile per-packet one-way delay: 117.624 ms
Loss rate: 49.03%

Run 7: Report of Verus — Data Link

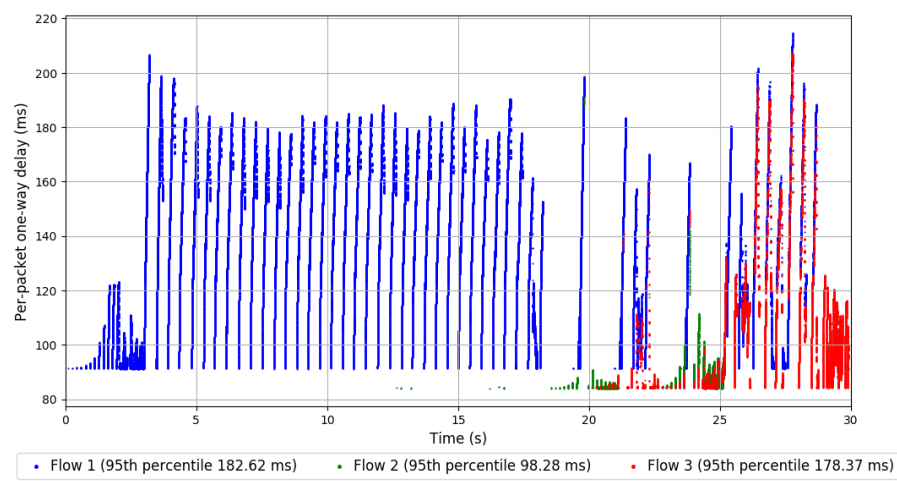
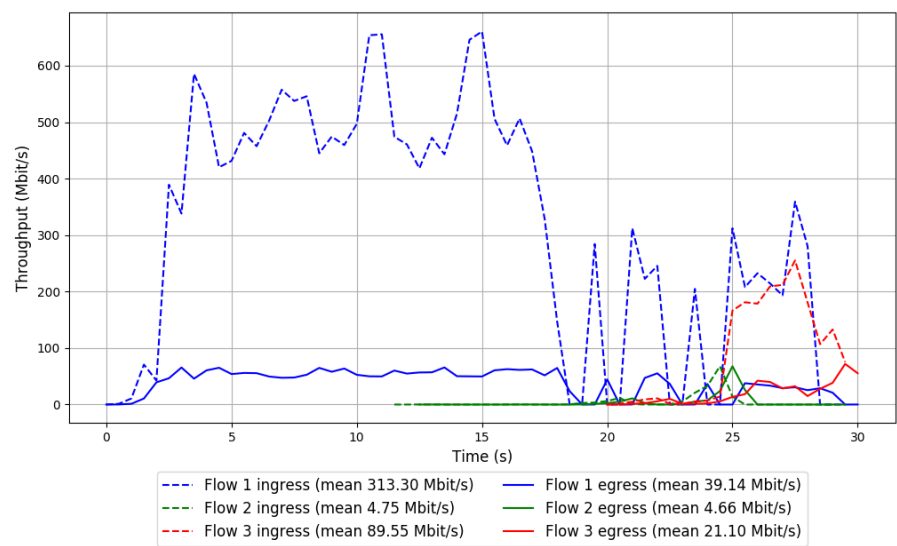


Run 8: Statistics of Verus

Start at: 2018-08-09 11:28:14
End at: 2018-08-09 11:28:44
Local clock offset: -2.247 ms
Remote clock offset: 5.518 ms

Below is generated by plot.py at 2018-08-09 12:35:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 48.59 Mbit/s
95th percentile per-packet one-way delay: 182.142 ms
Loss rate: 85.92%
-- Flow 1:
Average throughput: 39.14 Mbit/s
95th percentile per-packet one-way delay: 182.620 ms
Loss rate: 87.51%
-- Flow 2:
Average throughput: 4.66 Mbit/s
95th percentile per-packet one-way delay: 98.277 ms
Loss rate: 8.42%
-- Flow 3:
Average throughput: 21.10 Mbit/s
95th percentile per-packet one-way delay: 178.372 ms
Loss rate: 76.43%

Run 8: Report of Verus — Data Link

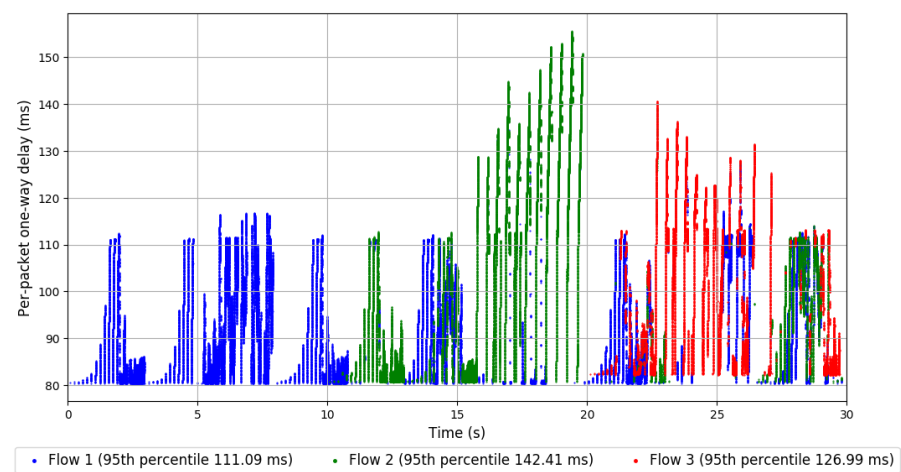
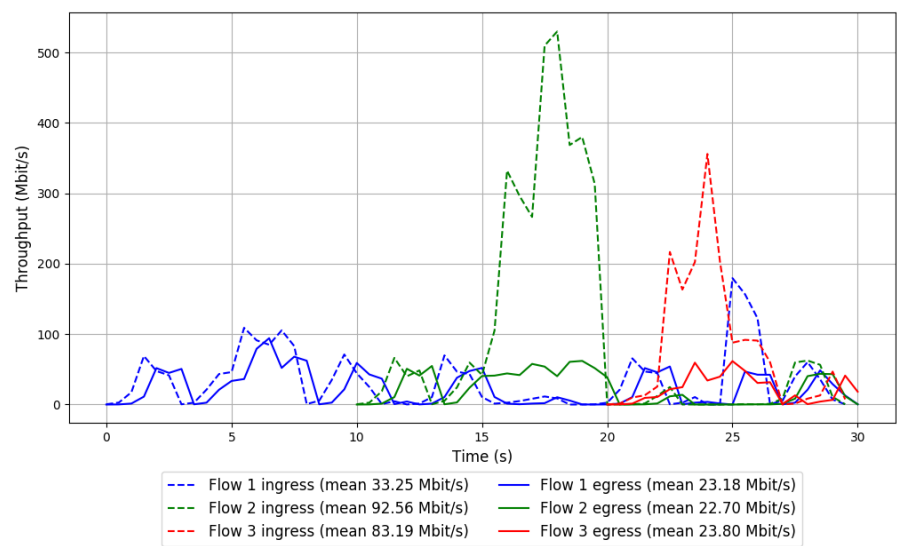


Run 9: Statistics of Verus

Start at: 2018-08-09 11:49:31
End at: 2018-08-09 11:50:01
Local clock offset: -2.201 ms
Remote clock offset: 1.575 ms

Below is generated by plot.py at 2018-08-09 12:35:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 45.92 Mbit/s
95th percentile per-packet one-way delay: 131.378 ms
Loss rate: 62.21%
-- Flow 1:
Average throughput: 23.18 Mbit/s
95th percentile per-packet one-way delay: 111.089 ms
Loss rate: 30.27%
-- Flow 2:
Average throughput: 22.70 Mbit/s
95th percentile per-packet one-way delay: 142.410 ms
Loss rate: 75.47%
-- Flow 3:
Average throughput: 23.80 Mbit/s
95th percentile per-packet one-way delay: 126.989 ms
Loss rate: 71.39%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-08-09 12:10:44

End at: 2018-08-09 12:11:15

Local clock offset: -2.318 ms

Remote clock offset: 5.138 ms

Below is generated by plot.py at 2018-08-09 12:35:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 43.92 Mbit/s

95th percentile per-packet one-way delay: 119.937 ms

Loss rate: 45.19%

-- Flow 1:

Average throughput: 25.26 Mbit/s

95th percentile per-packet one-way delay: 122.643 ms

Loss rate: 55.74%

-- Flow 2:

Average throughput: 16.22 Mbit/s

95th percentile per-packet one-way delay: 116.440 ms

Loss rate: 13.91%

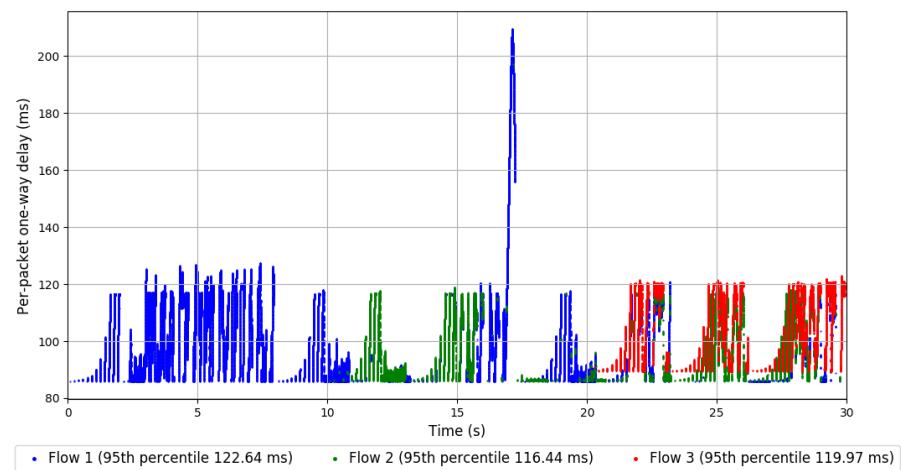
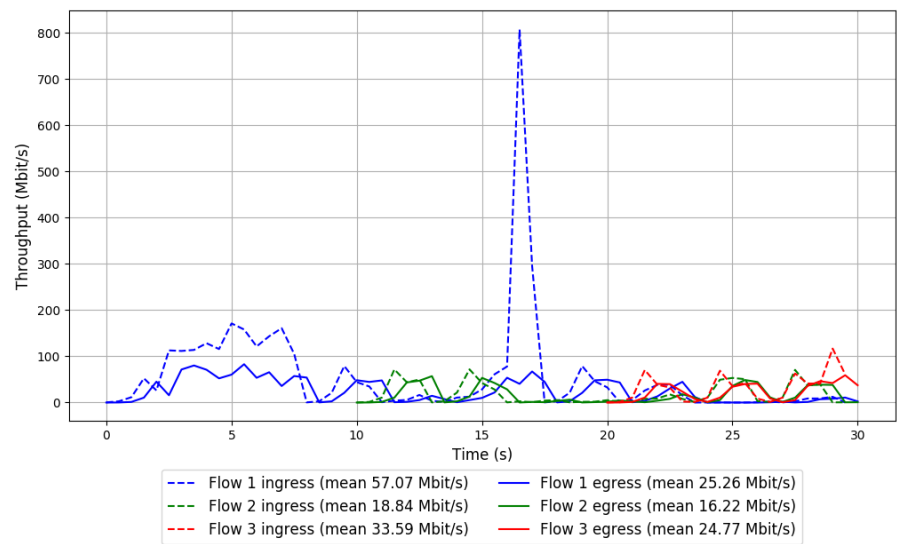
-- Flow 3:

Average throughput: 24.77 Mbit/s

95th percentile per-packet one-way delay: 119.971 ms

Loss rate: 26.09%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-08-09 08:41:04

End at: 2018-08-09 08:41:34

Local clock offset: -8.162 ms

Remote clock offset: 5.206 ms

Below is generated by plot.py at 2018-08-09 12:35:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.37 Mbit/s

95th percentile per-packet one-way delay: 112.369 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 64.77 Mbit/s

95th percentile per-packet one-way delay: 113.660 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 13.12 Mbit/s

95th percentile per-packet one-way delay: 103.344 ms

Loss rate: 0.06%

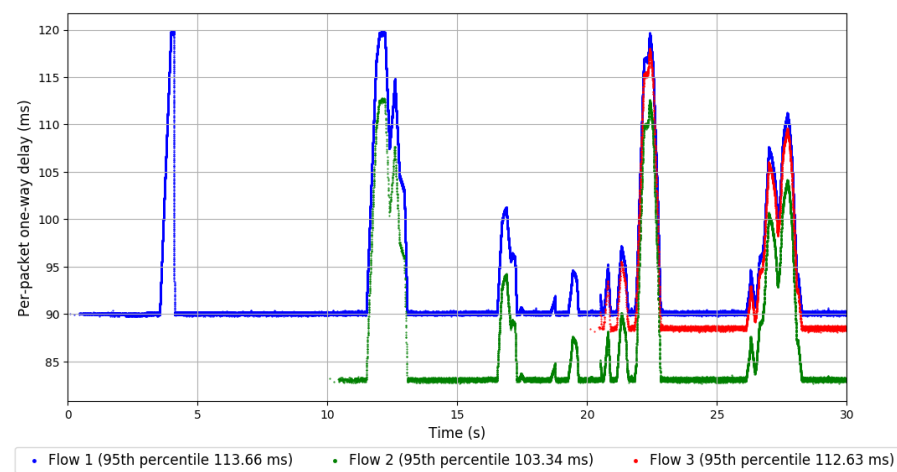
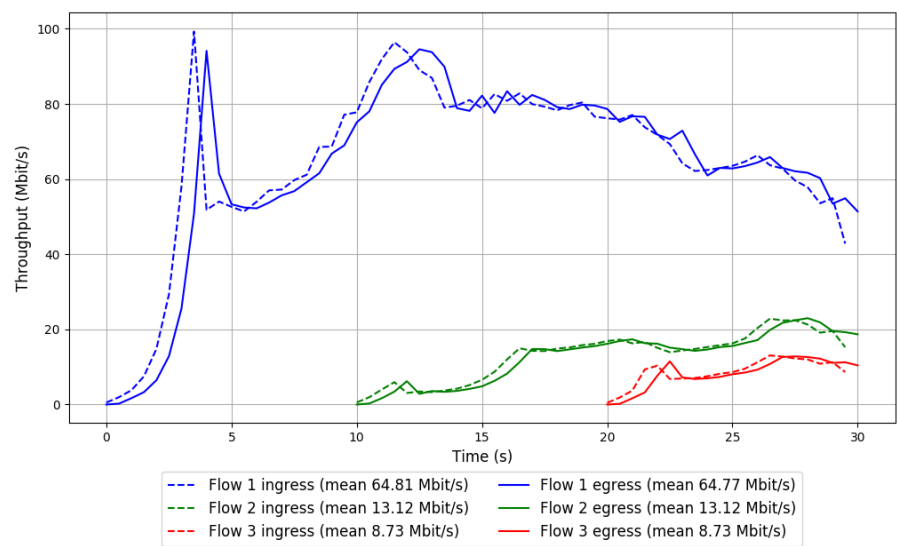
-- Flow 3:

Average throughput: 8.73 Mbit/s

95th percentile per-packet one-way delay: 112.634 ms

Loss rate: 0.09%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-08-09 09:02:14

End at: 2018-08-09 09:02:44

Local clock offset: -8.176 ms

Remote clock offset: 0.276 ms

Below is generated by plot.py at 2018-08-09 12:35:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.97 Mbit/s

95th percentile per-packet one-way delay: 110.639 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 63.74 Mbit/s

95th percentile per-packet one-way delay: 110.959 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 16.94 Mbit/s

95th percentile per-packet one-way delay: 110.829 ms

Loss rate: 0.78%

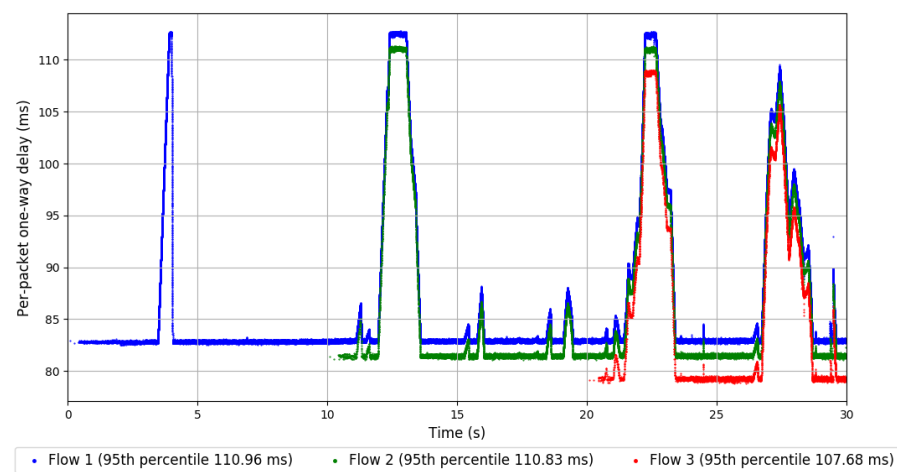
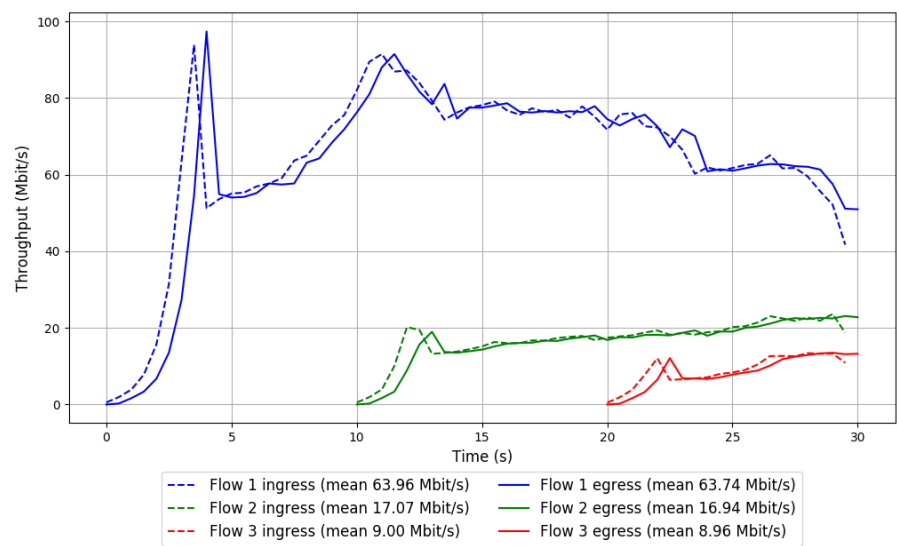
-- Flow 3:

Average throughput: 8.96 Mbit/s

95th percentile per-packet one-way delay: 107.684 ms

Loss rate: 0.42%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-08-09 09:23:29

End at: 2018-08-09 09:23:59

Local clock offset: -5.335 ms

Remote clock offset: 3.363 ms

Below is generated by plot.py at 2018-08-09 12:35:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.89 Mbit/s

95th percentile per-packet one-way delay: 101.494 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 68.77 Mbit/s

95th percentile per-packet one-way delay: 102.357 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 12.87 Mbit/s

95th percentile per-packet one-way delay: 94.201 ms

Loss rate: 0.05%

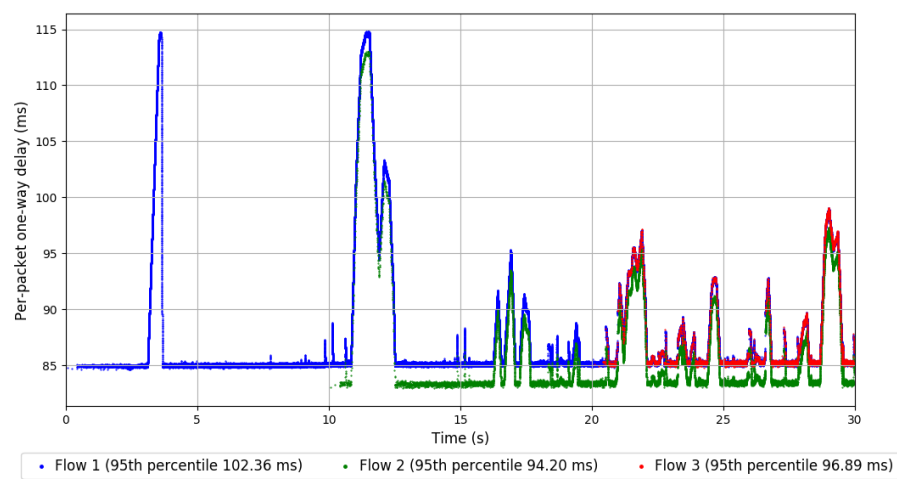
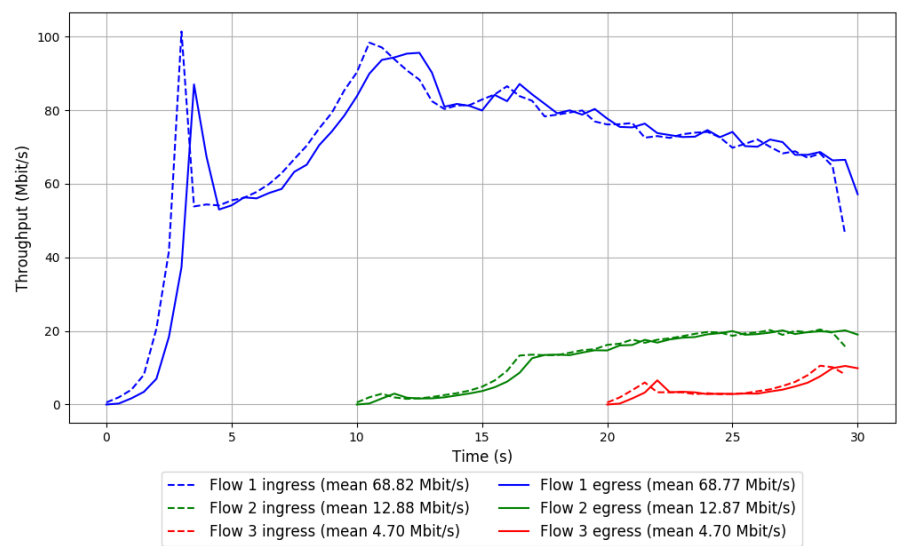
-- Flow 3:

Average throughput: 4.70 Mbit/s

95th percentile per-packet one-way delay: 96.894 ms

Loss rate: 0.03%

Run 3: Report of PCC-Vivace — Data Link

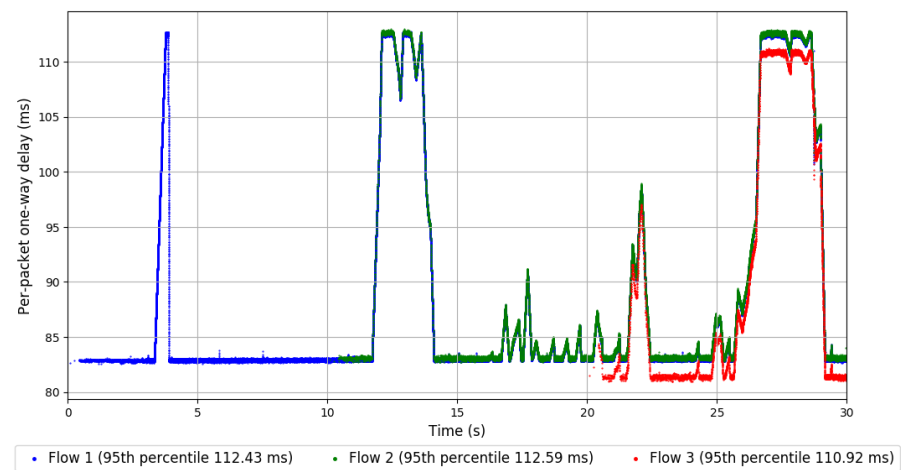
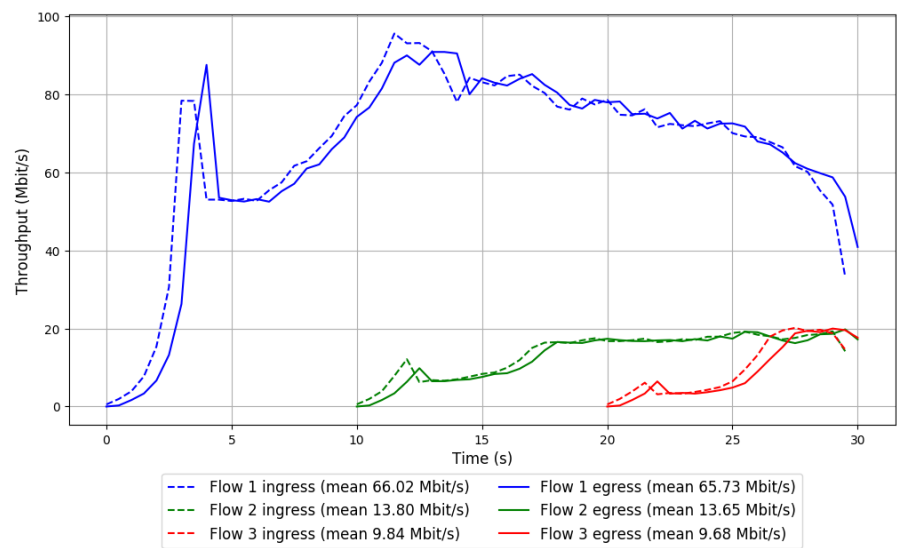


Run 4: Statistics of PCC-Vivace

Start at: 2018-08-09 09:44:46
End at: 2018-08-09 09:45:16
Local clock offset: -2.637 ms
Remote clock offset: -0.732 ms

Below is generated by plot.py at 2018-08-09 12:35:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.01 Mbit/s
95th percentile per-packet one-way delay: 112.443 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 65.73 Mbit/s
95th percentile per-packet one-way delay: 112.432 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 13.65 Mbit/s
95th percentile per-packet one-way delay: 112.588 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 9.68 Mbit/s
95th percentile per-packet one-way delay: 110.918 ms
Loss rate: 1.65%

Run 4: Report of PCC-Vivace — Data Link

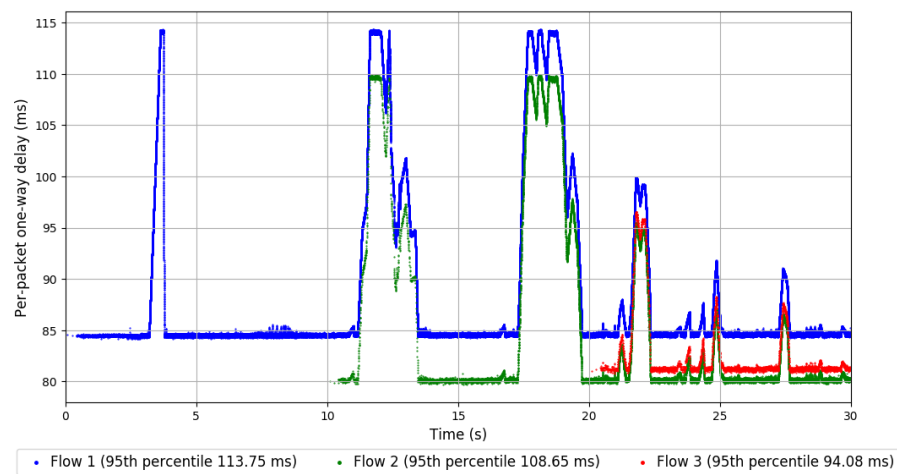
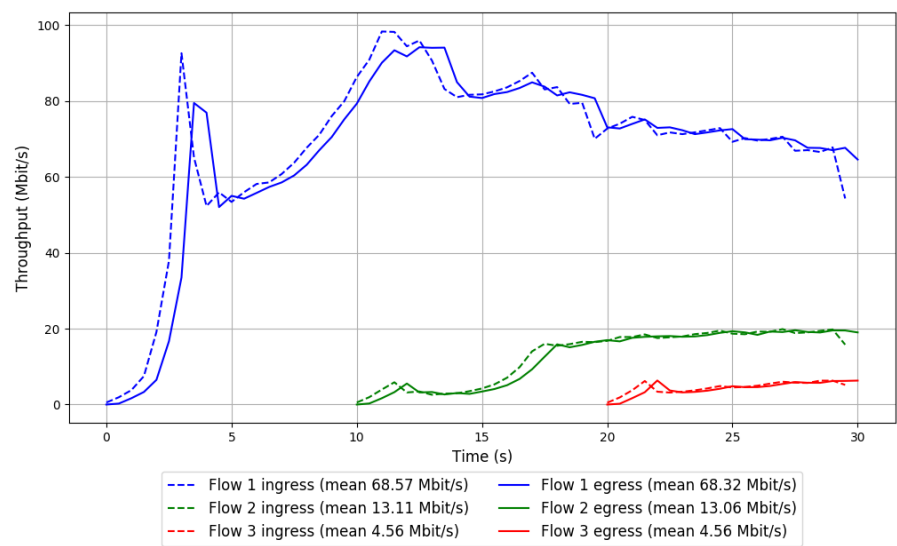


Run 5: Statistics of PCC-Vivace

Start at: 2018-08-09 10:05:54
End at: 2018-08-09 10:06:24
Local clock offset: -2.915 ms
Remote clock offset: -0.897 ms

Below is generated by plot.py at 2018-08-09 12:36:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.51 Mbit/s
95th percentile per-packet one-way delay: 112.967 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 68.32 Mbit/s
95th percentile per-packet one-way delay: 113.754 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 13.06 Mbit/s
95th percentile per-packet one-way delay: 108.648 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 4.56 Mbit/s
95th percentile per-packet one-way delay: 94.075 ms
Loss rate: 0.03%

Run 5: Report of PCC-Vivace — Data Link

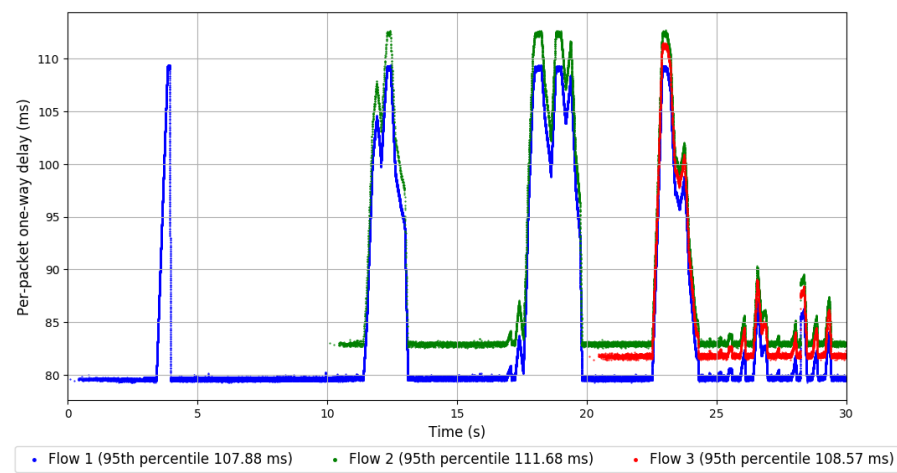
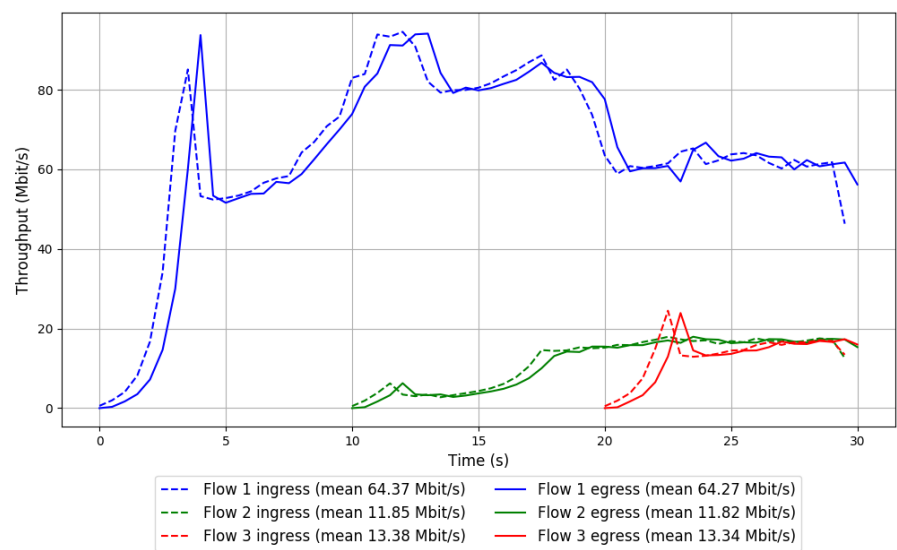


Run 6: Statistics of PCC-Vivace

Start at: 2018-08-09 10:27:06
End at: 2018-08-09 10:27:36
Local clock offset: -2.772 ms
Remote clock offset: -0.769 ms

Below is generated by plot.py at 2018-08-09 12:36:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.54 Mbit/s
95th percentile per-packet one-way delay: 108.346 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 64.27 Mbit/s
95th percentile per-packet one-way delay: 107.880 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 11.82 Mbit/s
95th percentile per-packet one-way delay: 111.677 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 13.34 Mbit/s
95th percentile per-packet one-way delay: 108.568 ms
Loss rate: 0.25%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-08-09 10:48:19

End at: 2018-08-09 10:48:49

Local clock offset: -2.562 ms

Remote clock offset: 2.451 ms

Below is generated by plot.py at 2018-08-09 12:36:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.15 Mbit/s

95th percentile per-packet one-way delay: 114.670 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 61.79 Mbit/s

95th percentile per-packet one-way delay: 115.064 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 19.59 Mbit/s

95th percentile per-packet one-way delay: 111.503 ms

Loss rate: 0.58%

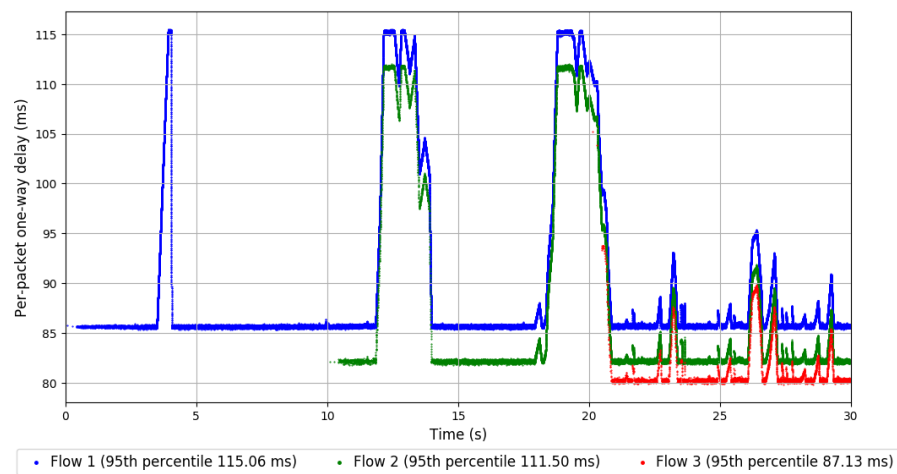
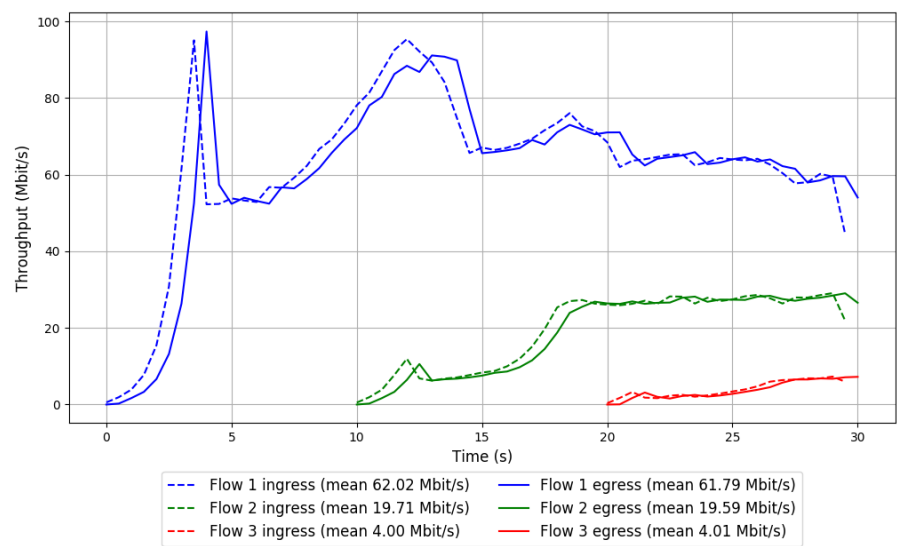
-- Flow 3:

Average throughput: 4.01 Mbit/s

95th percentile per-packet one-way delay: 87.131 ms

Loss rate: 0.00%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-08-09 11:09:30

End at: 2018-08-09 11:10:00

Local clock offset: -2.189 ms

Remote clock offset: 6.302 ms

Below is generated by plot.py at 2018-08-09 12:36:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.08 Mbit/s

95th percentile per-packet one-way delay: 96.120 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 71.27 Mbit/s

95th percentile per-packet one-way delay: 94.248 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 8.84 Mbit/s

95th percentile per-packet one-way delay: 101.714 ms

Loss rate: 0.04%

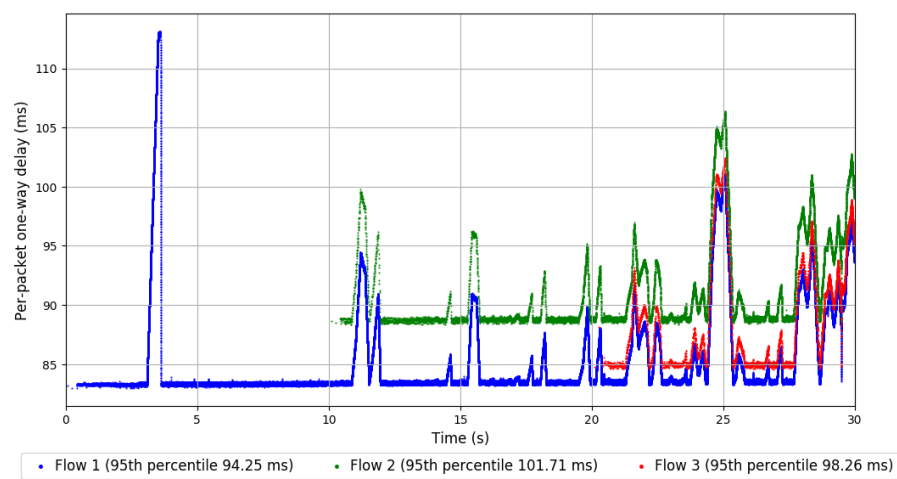
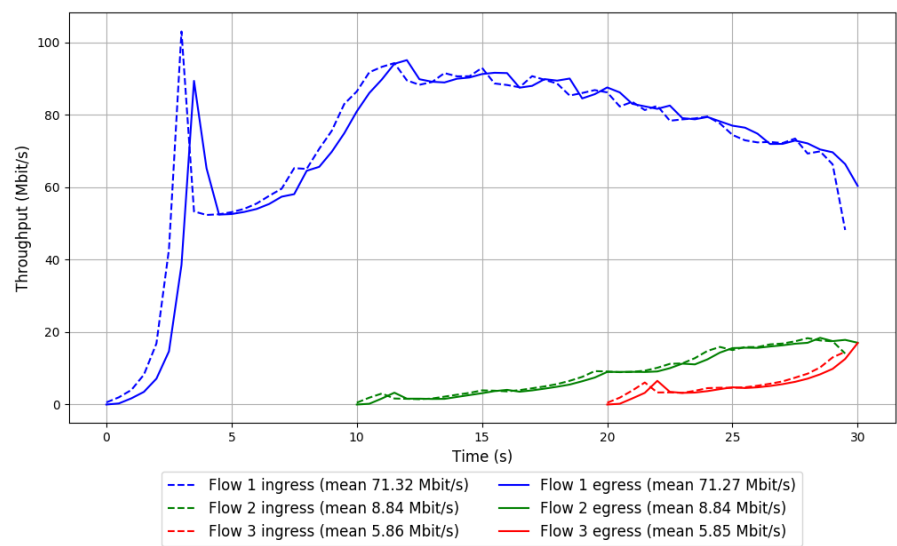
-- Flow 3:

Average throughput: 5.85 Mbit/s

95th percentile per-packet one-way delay: 98.262 ms

Loss rate: 0.04%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-08-09 11:30:49

End at: 2018-08-09 11:31:19

Local clock offset: -2.238 ms

Remote clock offset: 4.401 ms

Below is generated by plot.py at 2018-08-09 12:36:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.01 Mbit/s

95th percentile per-packet one-way delay: 101.922 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 68.05 Mbit/s

95th percentile per-packet one-way delay: 102.568 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 12.42 Mbit/s

95th percentile per-packet one-way delay: 96.776 ms

Loss rate: 0.01%

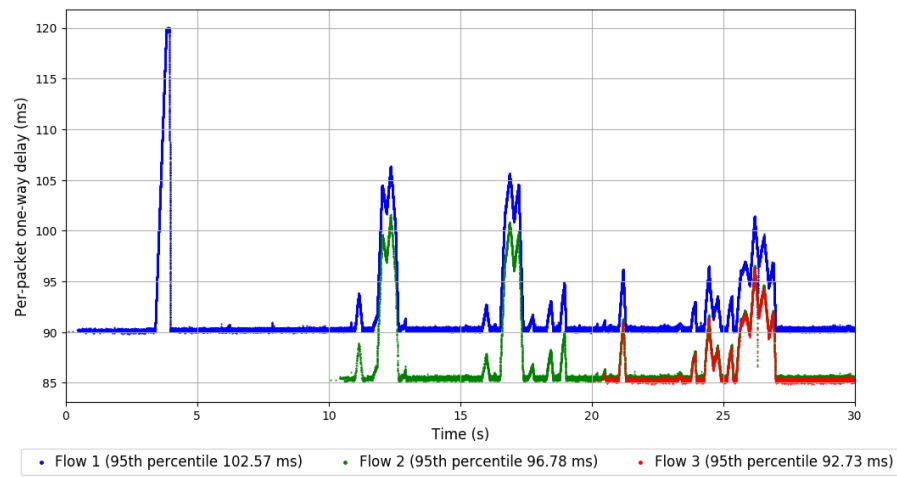
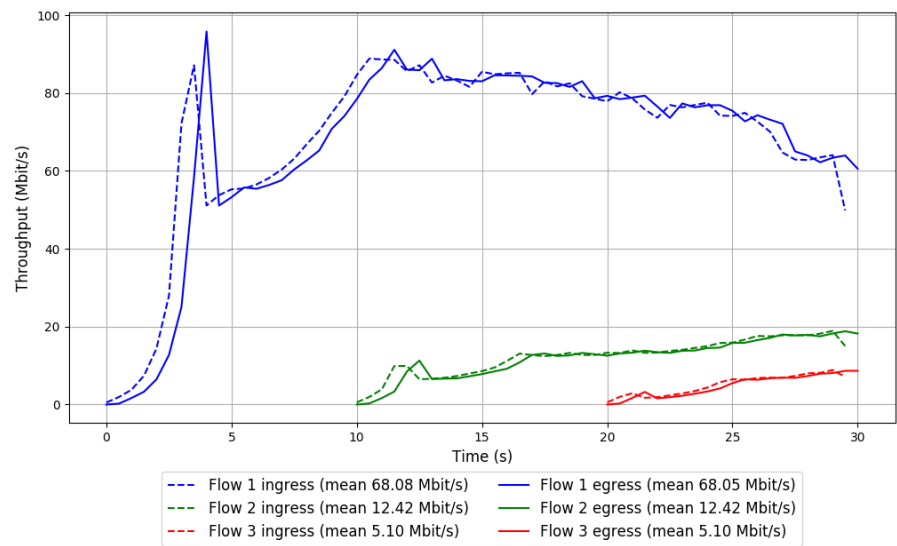
-- Flow 3:

Average throughput: 5.10 Mbit/s

95th percentile per-packet one-way delay: 92.731 ms

Loss rate: 0.02%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-08-09 11:52:02

End at: 2018-08-09 11:52:32

Local clock offset: -2.249 ms

Remote clock offset: 6.208 ms

Below is generated by plot.py at 2018-08-09 12:36:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.88 Mbit/s

95th percentile per-packet one-way delay: 113.803 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 63.07 Mbit/s

95th percentile per-packet one-way delay: 114.445 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 17.13 Mbit/s

95th percentile per-packet one-way delay: 114.344 ms

Loss rate: 0.26%

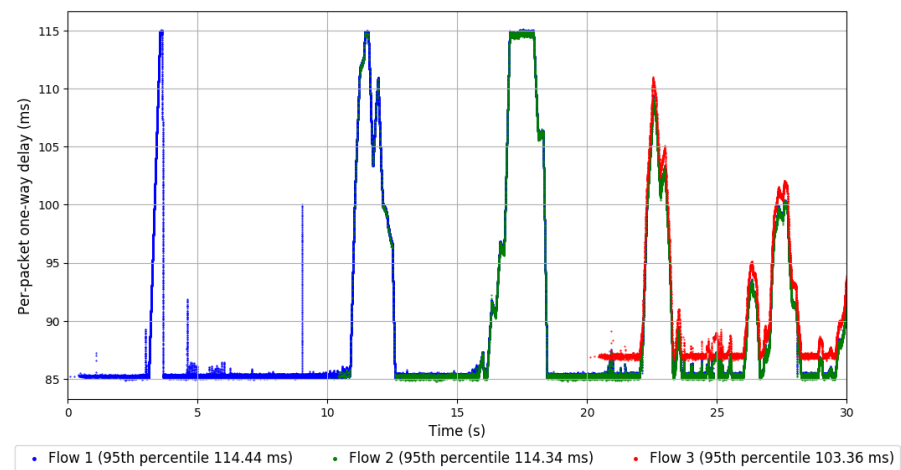
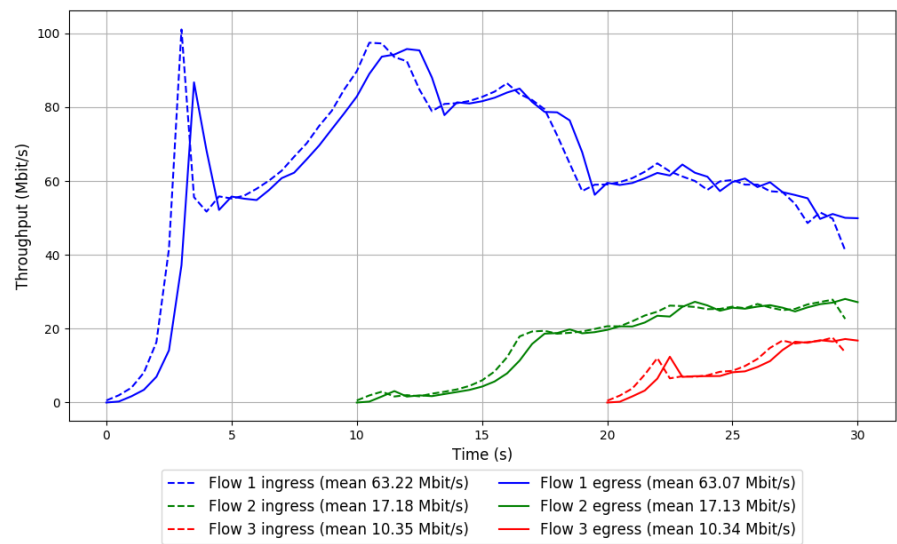
-- Flow 3:

Average throughput: 10.34 Mbit/s

95th percentile per-packet one-way delay: 103.363 ms

Loss rate: 0.02%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-08-09 08:56:06

End at: 2018-08-09 08:56:36

Local clock offset: -8.111 ms

Remote clock offset: 4.653 ms

Below is generated by plot.py at 2018-08-09 12:36:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.98 Mbit/s

95th percentile per-packet one-way delay: 88.933 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.71 Mbit/s

95th percentile per-packet one-way delay: 89.054 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.06 Mbit/s

95th percentile per-packet one-way delay: 84.703 ms

Loss rate: 0.00%

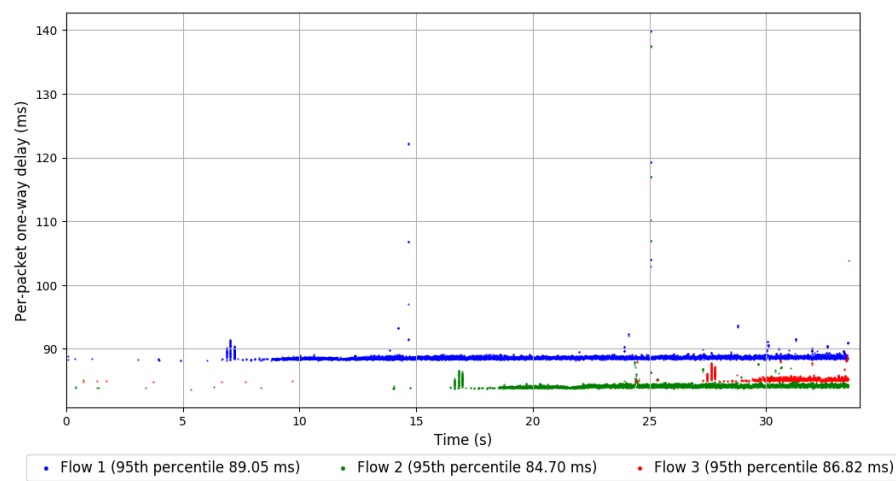
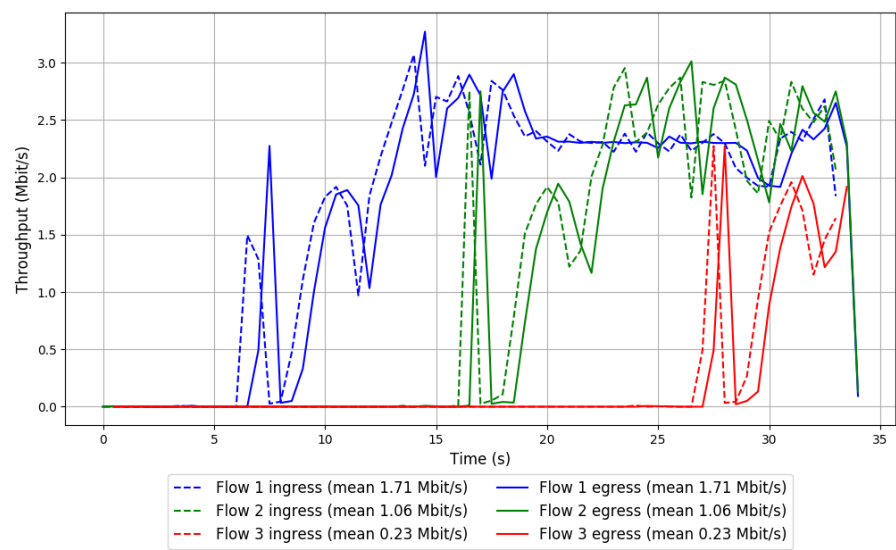
-- Flow 3:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 86.823 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-08-09 09:17:20

End at: 2018-08-09 09:17:50

Local clock offset: -7.577 ms

Remote clock offset: 5.658 ms

Below is generated by plot.py at 2018-08-09 12:36:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.97 Mbit/s

95th percentile per-packet one-way delay: 88.532 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 1.73 Mbit/s

95th percentile per-packet one-way delay: 86.443 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.02 Mbit/s

95th percentile per-packet one-way delay: 88.989 ms

Loss rate: 0.16%

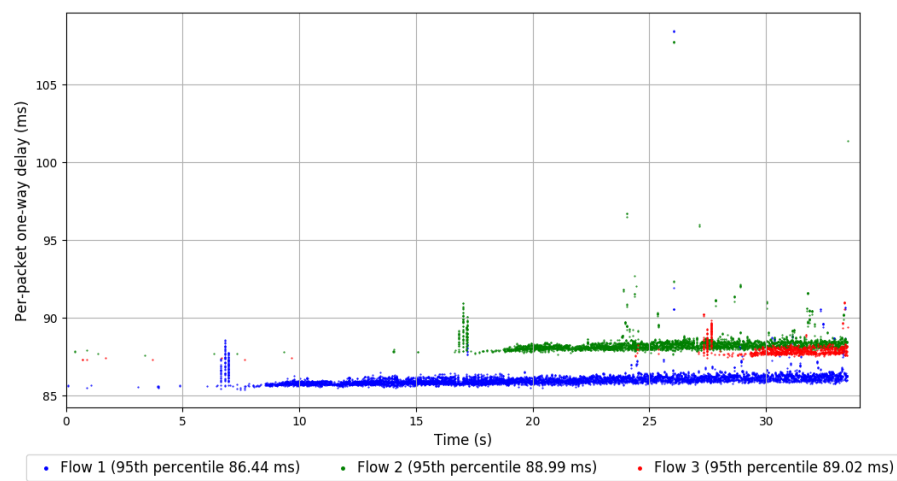
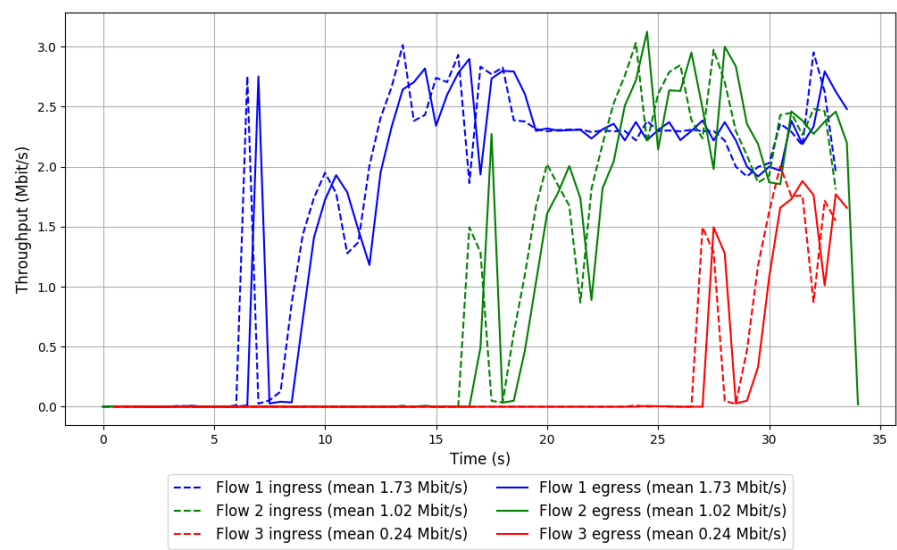
-- Flow 3:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 89.019 ms

Loss rate: 0.34%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-08-09 09:38:30

End at: 2018-08-09 09:39:00

Local clock offset: -3.077 ms

Remote clock offset: 0.357 ms

Below is generated by plot.py at 2018-08-09 12:36:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.99 Mbit/s

95th percentile per-packet one-way delay: 87.957 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.73 Mbit/s

95th percentile per-packet one-way delay: 88.099 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.01 Mbit/s

95th percentile per-packet one-way delay: 81.281 ms

Loss rate: 0.00%

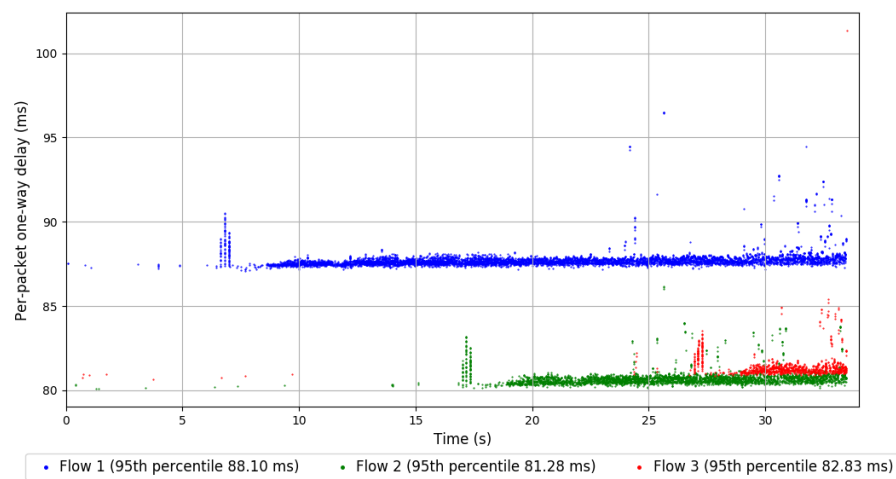
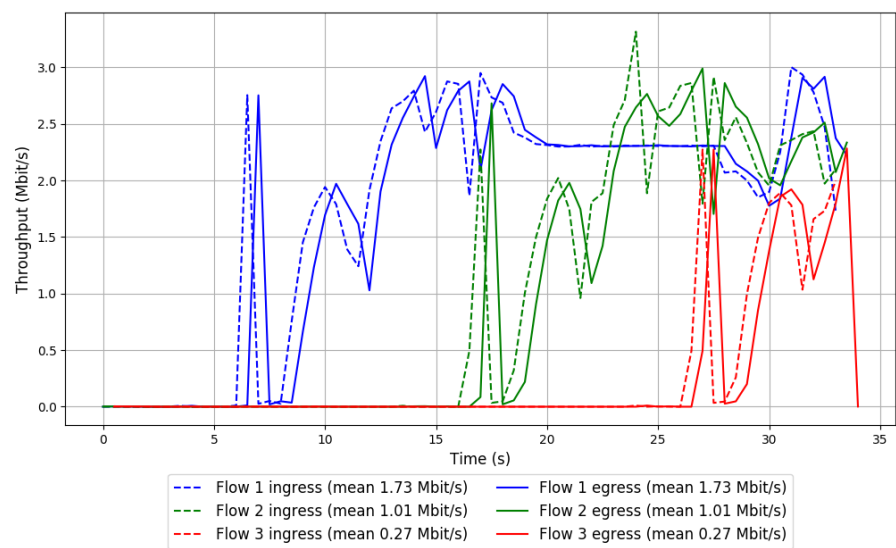
-- Flow 3:

Average throughput: 0.27 Mbit/s

95th percentile per-packet one-way delay: 82.825 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-08-09 09:59:48

End at: 2018-08-09 10:00:18

Local clock offset: -2.959 ms

Remote clock offset: 2.811 ms

Below is generated by plot.py at 2018-08-09 12:36:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.03 Mbit/s

95th percentile per-packet one-way delay: 85.563 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.75 Mbit/s

95th percentile per-packet one-way delay: 84.029 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.03 Mbit/s

95th percentile per-packet one-way delay: 86.050 ms

Loss rate: 0.00%

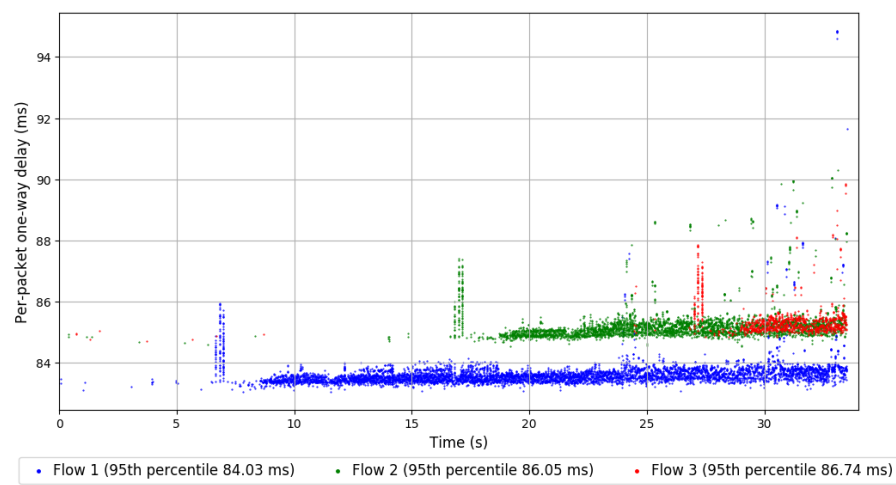
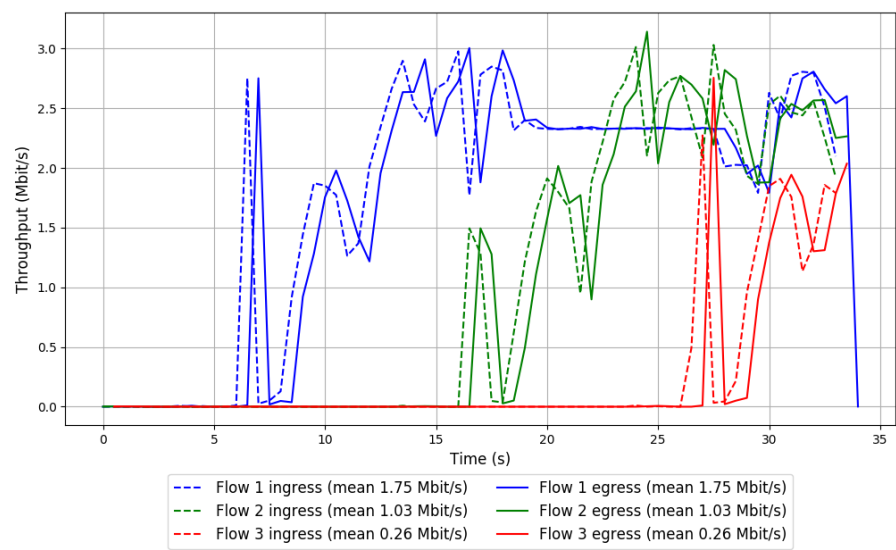
-- Flow 3:

Average throughput: 0.26 Mbit/s

95th percentile per-packet one-way delay: 86.737 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-08-09 10:20:59

End at: 2018-08-09 10:21:29

Local clock offset: -2.823 ms

Remote clock offset: 4.168 ms

Below is generated by plot.py at 2018-08-09 12:36:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.05 Mbit/s

95th percentile per-packet one-way delay: 86.941 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.76 Mbit/s

95th percentile per-packet one-way delay: 86.756 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.07 Mbit/s

95th percentile per-packet one-way delay: 85.441 ms

Loss rate: 0.00%

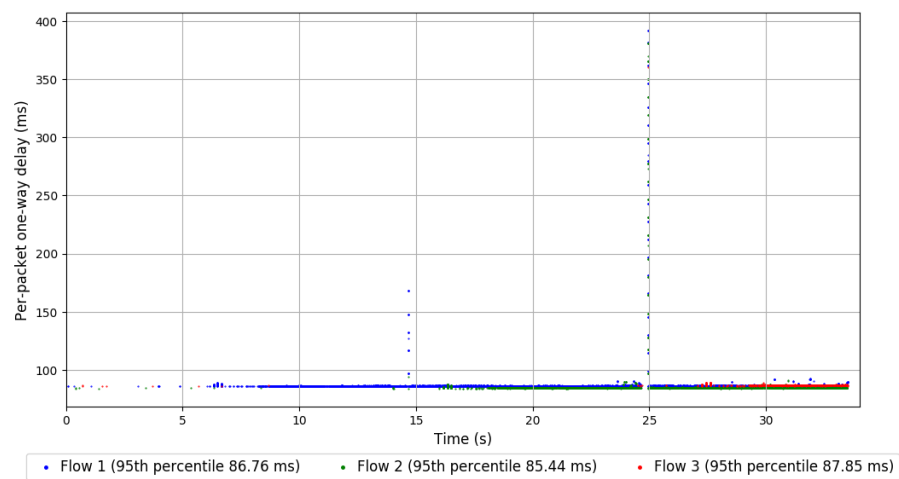
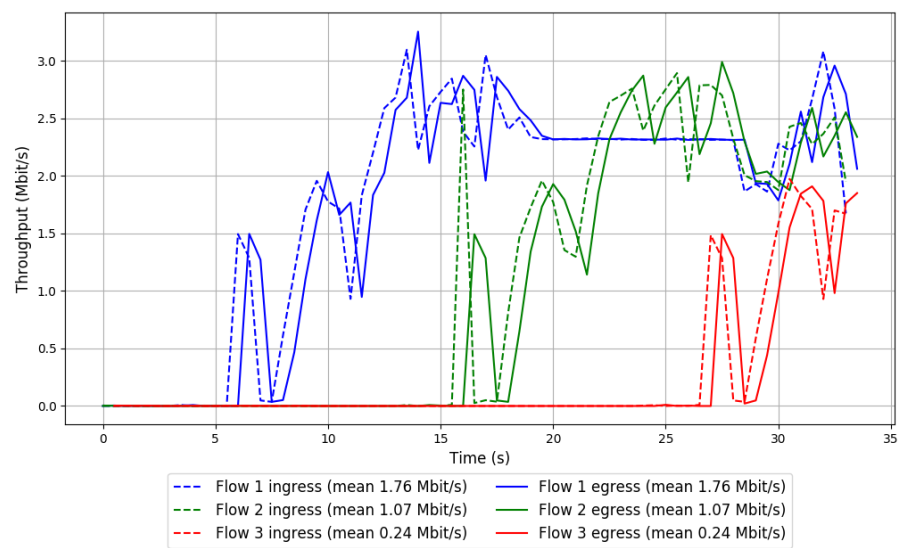
-- Flow 3:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 87.853 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-08-09 10:42:11

End at: 2018-08-09 10:42:41

Local clock offset: -2.579 ms

Remote clock offset: 0.712 ms

Below is generated by plot.py at 2018-08-09 12:36:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.00 Mbit/s

95th percentile per-packet one-way delay: 86.788 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.77 Mbit/s

95th percentile per-packet one-way delay: 80.035 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.01 Mbit/s

95th percentile per-packet one-way delay: 87.271 ms

Loss rate: 0.00%

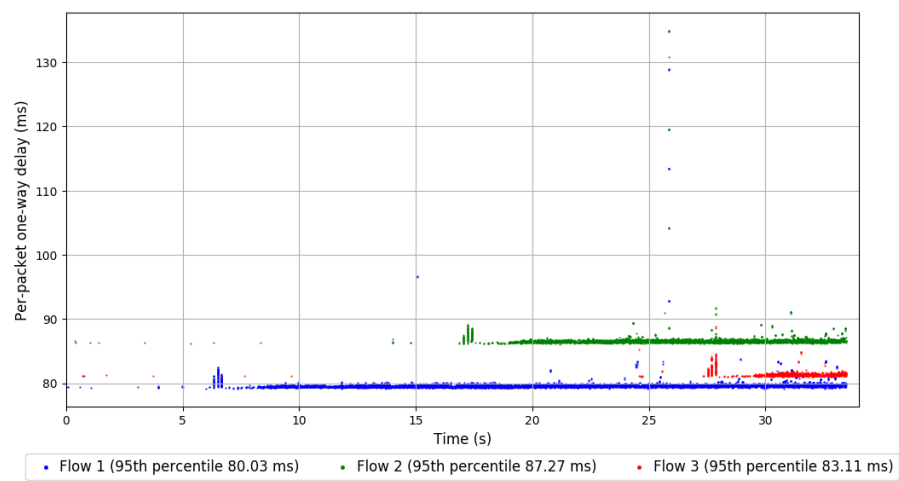
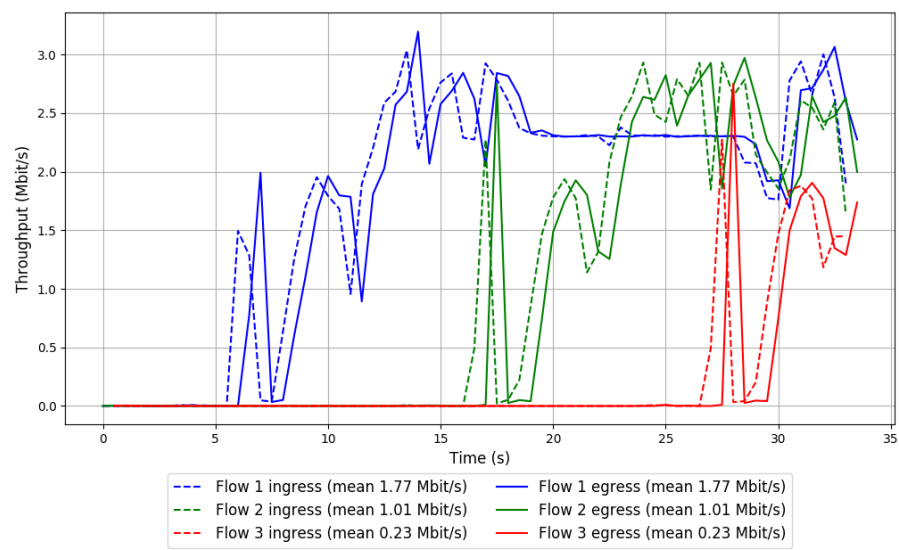
-- Flow 3:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 83.112 ms

Loss rate: 0.01%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-08-09 11:03:24

End at: 2018-08-09 11:03:54

Local clock offset: -2.414 ms

Remote clock offset: 2.483 ms

Below is generated by plot.py at 2018-08-09 12:36:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.01 Mbit/s

95th percentile per-packet one-way delay: 83.335 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.76 Mbit/s

95th percentile per-packet one-way delay: 82.441 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.03 Mbit/s

95th percentile per-packet one-way delay: 82.609 ms

Loss rate: 0.00%

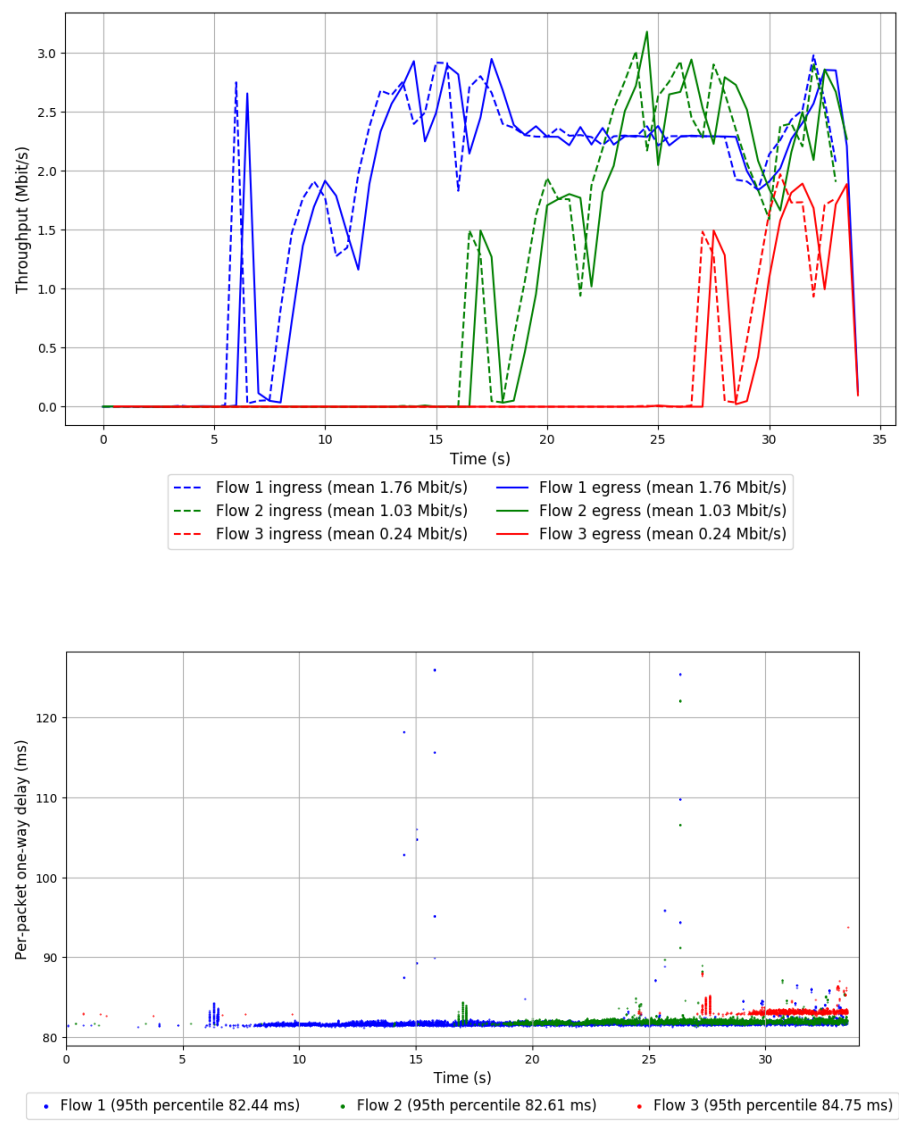
-- Flow 3:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 84.754 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-08-09 11:24:39

End at: 2018-08-09 11:25:09

Local clock offset: -2.252 ms

Remote clock offset: 6.641 ms

Below is generated by plot.py at 2018-08-09 12:36:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.92 Mbit/s

95th percentile per-packet one-way delay: 87.418 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.74 Mbit/s

95th percentile per-packet one-way delay: 85.913 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.00 Mbit/s

95th percentile per-packet one-way delay: 86.433 ms

Loss rate: 0.00%

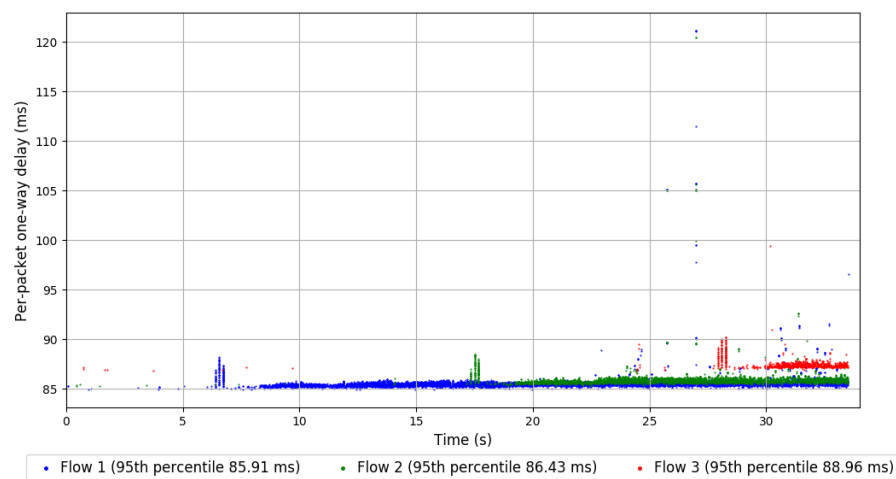
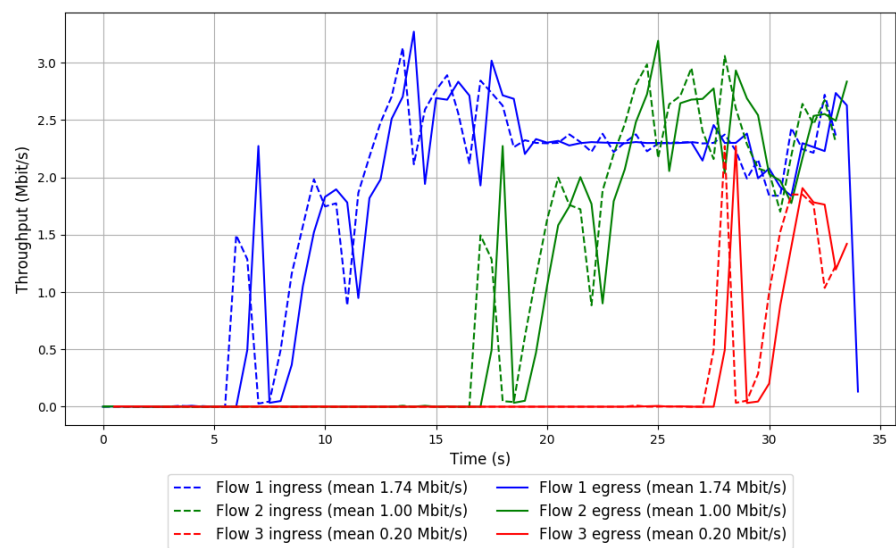
-- Flow 3:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 88.959 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-08-09 11:45:55

End at: 2018-08-09 11:46:25

Local clock offset: -2.104 ms

Remote clock offset: 5.306 ms

Below is generated by plot.py at 2018-08-09 12:36:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.93 Mbit/s

95th percentile per-packet one-way delay: 91.879 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 1.71 Mbit/s

95th percentile per-packet one-way delay: 88.478 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.02 Mbit/s

95th percentile per-packet one-way delay: 92.467 ms

Loss rate: 0.00%

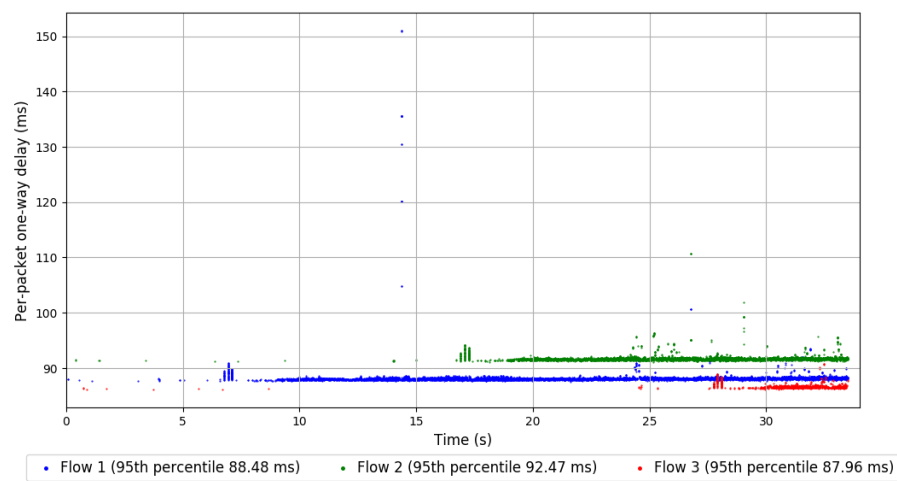
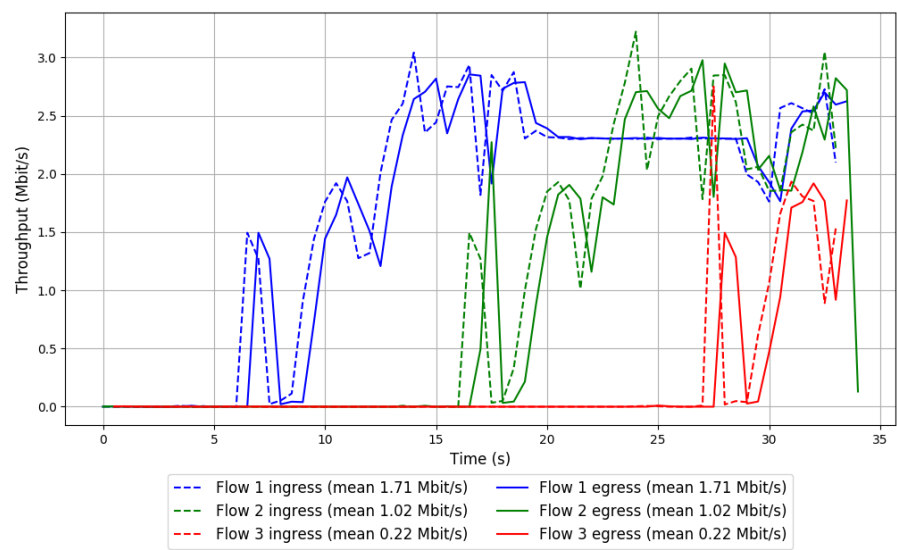
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.956 ms

Loss rate: 0.19%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-08-09 12:07:08

End at: 2018-08-09 12:07:38

Local clock offset: -2.386 ms

Remote clock offset: 0.386 ms

Below is generated by plot.py at 2018-08-09 12:36:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.98 Mbit/s

95th percentile per-packet one-way delay: 86.762 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 1.74 Mbit/s

95th percentile per-packet one-way delay: 83.661 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.04 Mbit/s

95th percentile per-packet one-way delay: 80.723 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 88.512 ms

Loss rate: 0.23%

Run 10: Report of WebRTC media — Data Link

