

Pantheon Report

Generated at 2018-08-10 05:11:40 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

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

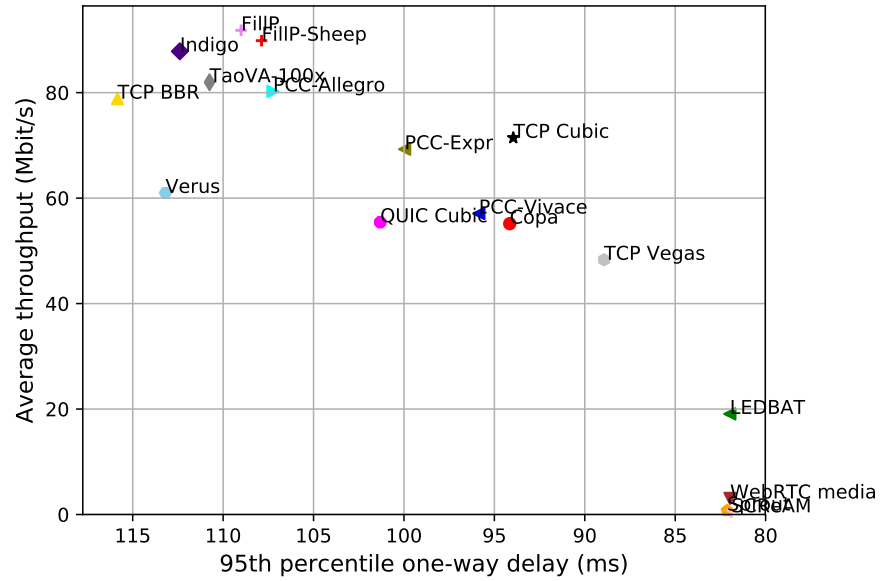
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

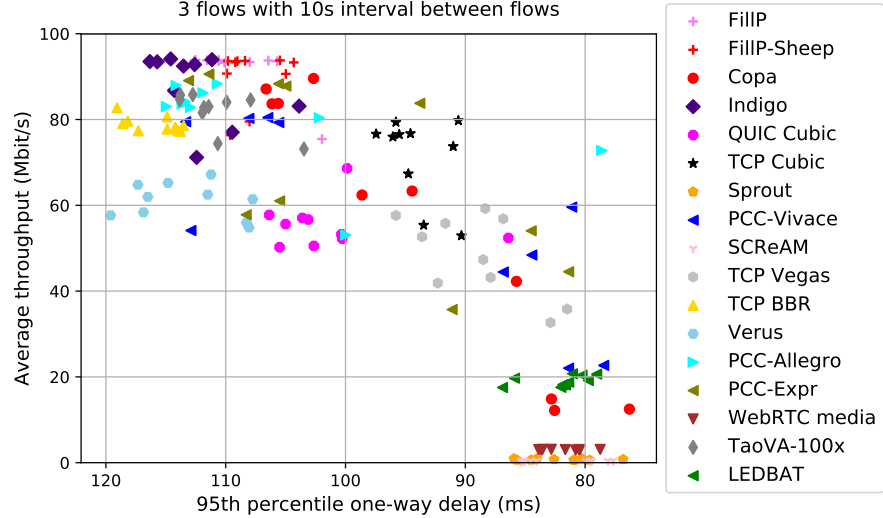
Git summary:

```
branch: master @ 7772df3413f4b07ba0096dfdd8e9d4c6dca623e3
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ daed0c84f98531712514b2231f43ec6901114ffe
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-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 Colombia to AWS Brazil 2, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



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



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	46.35	35.35	27.44	114.85	115.47	115.30	1.30	2.30	4.17
Copa	10	33.72	24.27	16.16	92.83	94.73	91.87	0.58	0.93	1.66
TCP Cubic	10	45.10	27.62	24.51	93.92	94.78	101.54	0.51	0.84	2.01
FillP	10	56.85	38.43	28.87	106.94	109.51	110.86	2.92	4.56	6.43
FillP-Sheep	10	55.82	37.44	28.55	105.71	109.04	109.37	4.09	5.36	5.98
Indigo	10	57.38	32.99	26.37	110.28	107.73	111.00	4.46	3.92	6.05
LEDBAT	10	12.55	7.86	4.04	81.94	81.30	81.38	1.12	1.65	3.44
PCC-Allegro	10	50.45	31.53	27.16	104.01	101.88	108.95	3.71	2.72	3.79
PCC-Expr	10	39.21	34.85	21.23	95.26	98.30	96.77	1.52	2.10	3.62
QUIC Cubic	10	33.19	23.38	20.57	96.45	101.85	109.98	0.71	1.16	2.51
SCReAM	10	0.21	0.22	0.22	81.30	81.15	80.67	0.50	0.84	1.62
Sprout	10	0.37	0.34	0.51	81.13	81.47	81.71	0.32	0.70	1.28
TaoVA-100x	10	48.95	36.41	26.85	110.29	110.21	111.54	2.16	3.19	4.66
TCP Vegas	10	24.76	27.45	16.18	87.02	87.84	95.74	0.61	0.96	1.91
Verus	10	33.76	29.60	23.19	109.45	113.86	115.49	1.62	2.36	3.36
PCC-Vivace	10	37.07	23.45	13.62	93.94	92.07	97.14	2.25	1.59	3.06
WebRTC media	10	1.70	0.97	0.39	81.19	81.15	81.89	0.49	0.78	1.95

Run 1: Statistics of TCP BBR

Start at: 2018-08-10 01:31:19

End at: 2018-08-10 01:31:49

Local clock offset: -2.871 ms

Remote clock offset: 2.86 ms

Below is generated by plot.py at 2018-08-10 04:54:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.38 Mbit/s

95th percentile per-packet one-way delay: 117.300 ms

Loss rate: 1.96%

-- Flow 1:

Average throughput: 46.21 Mbit/s

95th percentile per-packet one-way delay: 114.770 ms

Loss rate: 1.28%

-- Flow 2:

Average throughput: 33.57 Mbit/s

95th percentile per-packet one-way delay: 117.794 ms

Loss rate: 2.47%

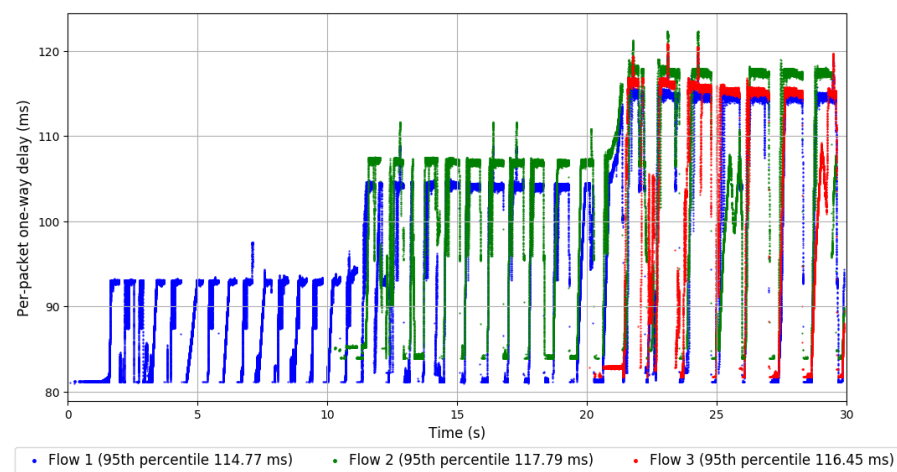
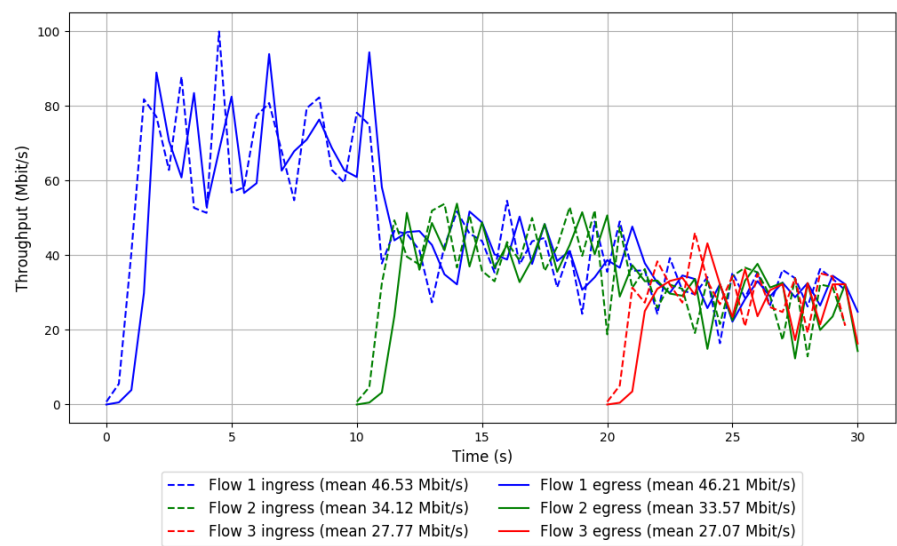
-- Flow 3:

Average throughput: 27.07 Mbit/s

95th percentile per-packet one-way delay: 116.450 ms

Loss rate: 4.14%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-08-10 01:52:25

End at: 2018-08-10 01:52:55

Local clock offset: -2.917 ms

Remote clock offset: 5.588 ms

Below is generated by plot.py at 2018-08-10 04:54:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.75 Mbit/s

95th percentile per-packet one-way delay: 114.873 ms

Loss rate: 2.02%

-- Flow 1:

Average throughput: 45.45 Mbit/s

95th percentile per-packet one-way delay: 112.779 ms

Loss rate: 1.33%

-- Flow 2:

Average throughput: 35.42 Mbit/s

95th percentile per-packet one-way delay: 115.387 ms

Loss rate: 2.41%

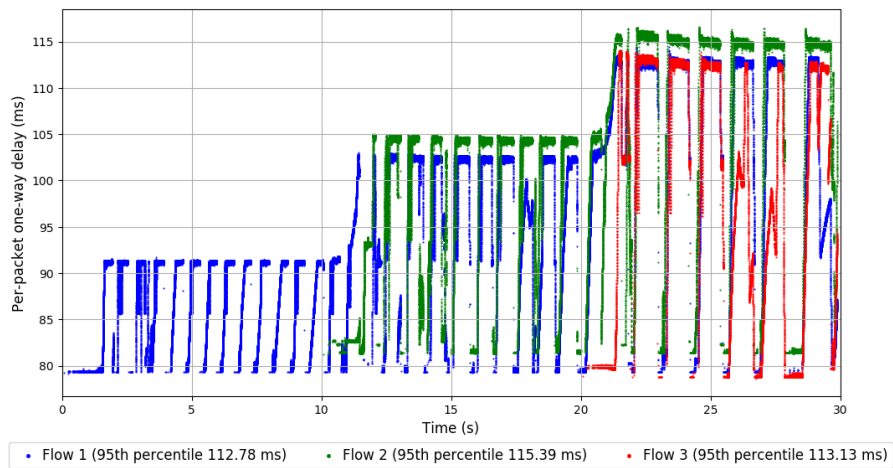
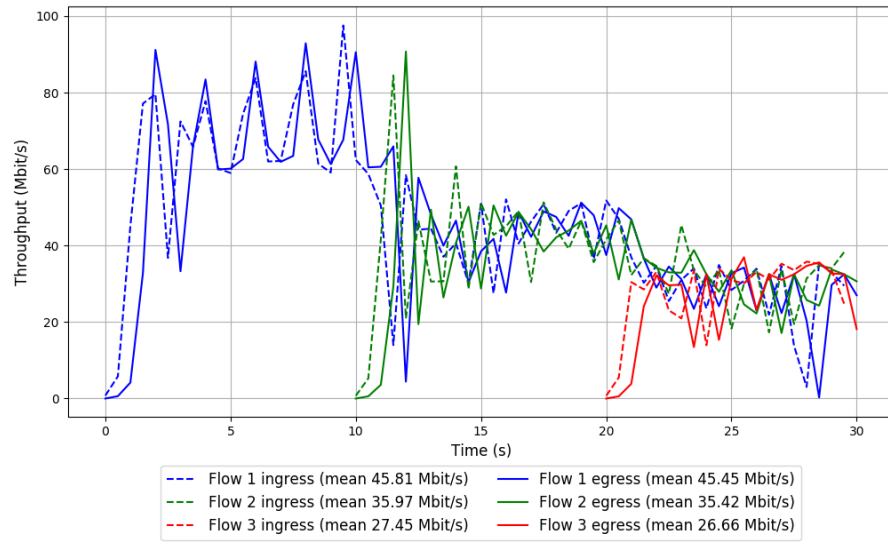
-- Flow 3:

Average throughput: 26.66 Mbit/s

95th percentile per-packet one-way delay: 113.134 ms

Loss rate: 4.50%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-08-10 02:13:32

End at: 2018-08-10 02:14:02

Local clock offset: -2.861 ms

Remote clock offset: 7.04 ms

Below is generated by plot.py at 2018-08-10 04:54:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.17 Mbit/s

95th percentile per-packet one-way delay: 114.218 ms

Loss rate: 1.71%

-- Flow 1:

Average throughput: 45.88 Mbit/s

95th percentile per-packet one-way delay: 114.249 ms

Loss rate: 1.30%

-- Flow 2:

Average throughput: 35.04 Mbit/s

95th percentile per-packet one-way delay: 114.276 ms

Loss rate: 1.74%

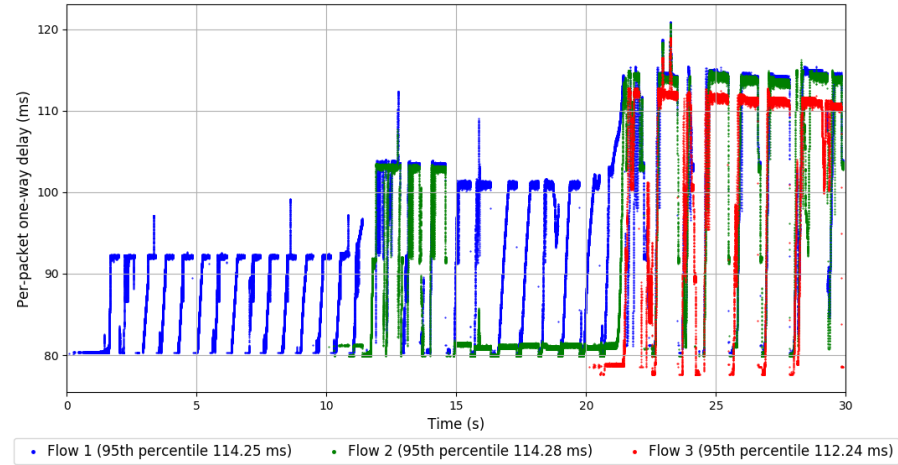
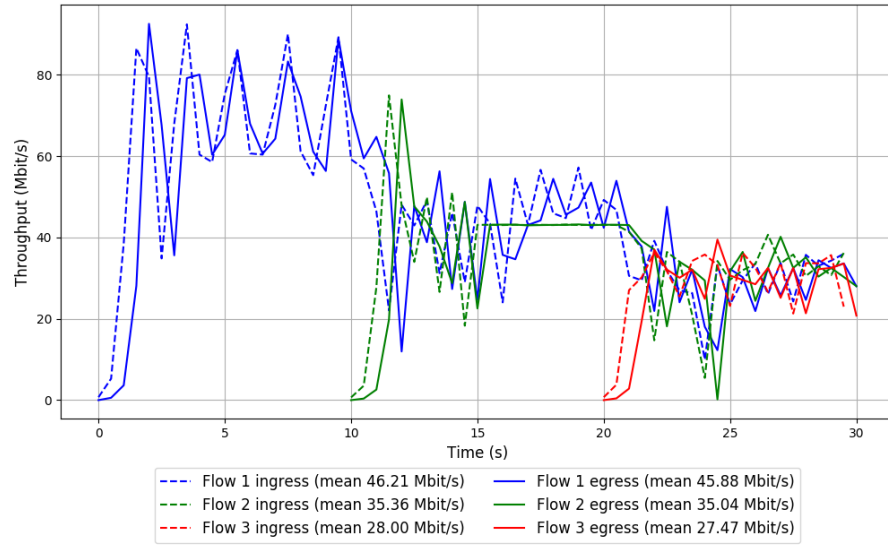
-- Flow 3:

Average throughput: 27.47 Mbit/s

95th percentile per-packet one-way delay: 112.236 ms

Loss rate: 3.64%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-08-10 02:34:37

End at: 2018-08-10 02:35:07

Local clock offset: -3.516 ms

Remote clock offset: 7.721 ms

Below is generated by plot.py at 2018-08-10 04:54:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.38 Mbit/s

95th percentile per-packet one-way delay: 113.988 ms

Loss rate: 2.15%

-- Flow 1:

Average throughput: 44.88 Mbit/s

95th percentile per-packet one-way delay: 113.605 ms

Loss rate: 1.43%

-- Flow 2:

Average throughput: 36.26 Mbit/s

95th percentile per-packet one-way delay: 111.614 ms

Loss rate: 2.40%

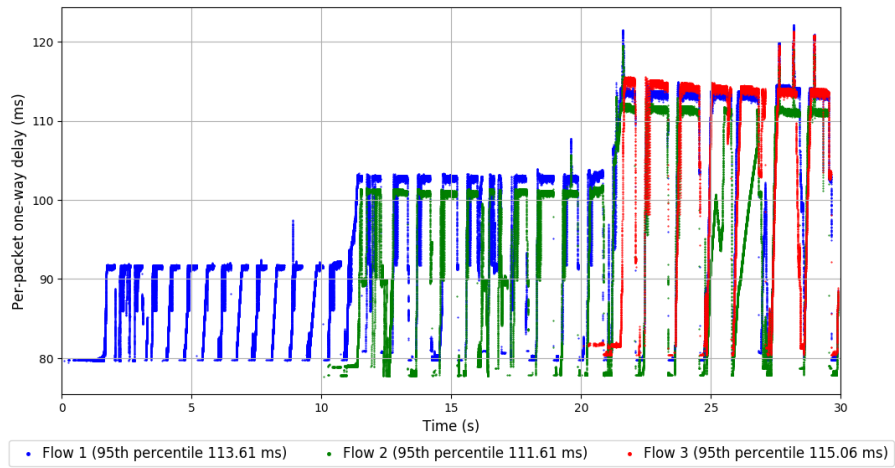
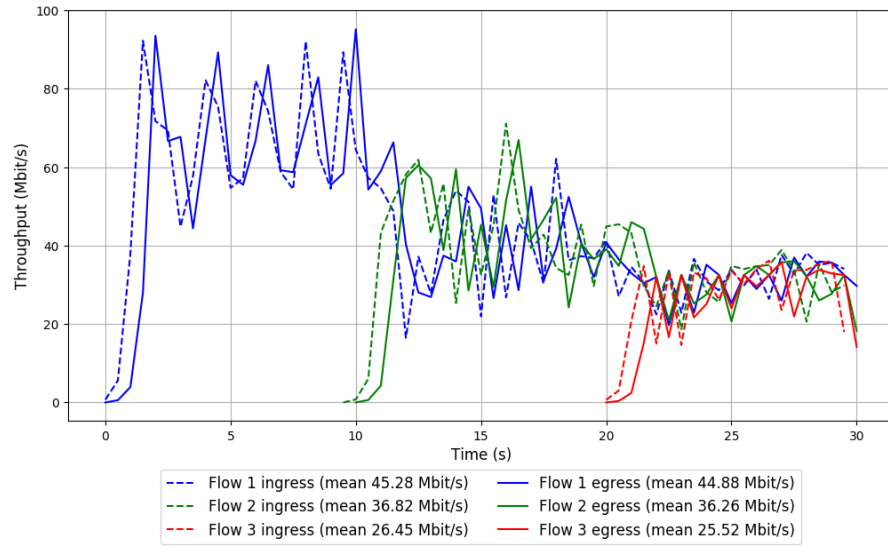
-- Flow 3:

Average throughput: 25.52 Mbit/s

95th percentile per-packet one-way delay: 115.055 ms

Loss rate: 5.17%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-08-10 02:55:39

End at: 2018-08-10 02:56:09

Local clock offset: -3.361 ms

Remote clock offset: 9.311 ms

Below is generated by plot.py at 2018-08-10 04:54:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.58 Mbit/s

95th percentile per-packet one-way delay: 113.512 ms

Loss rate: 1.89%

-- Flow 1:

Average throughput: 46.63 Mbit/s

95th percentile per-packet one-way delay: 113.229 ms

Loss rate: 1.15%

-- Flow 2:

Average throughput: 34.28 Mbit/s

95th percentile per-packet one-way delay: 113.873 ms

Loss rate: 2.36%

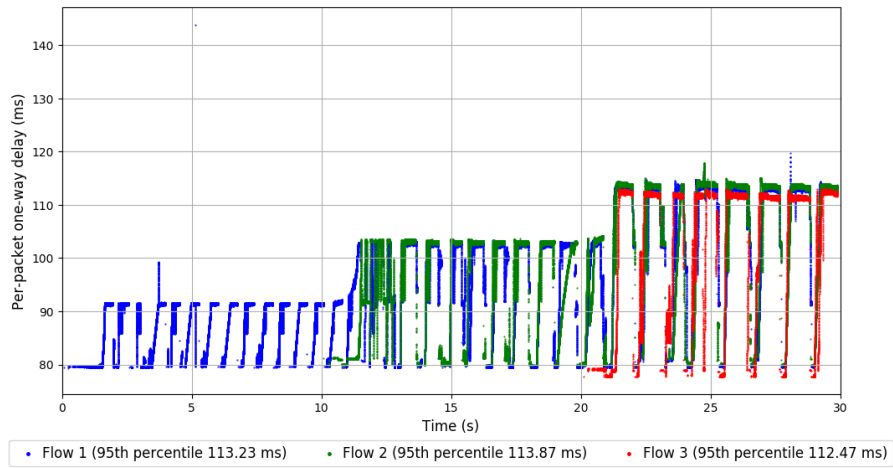
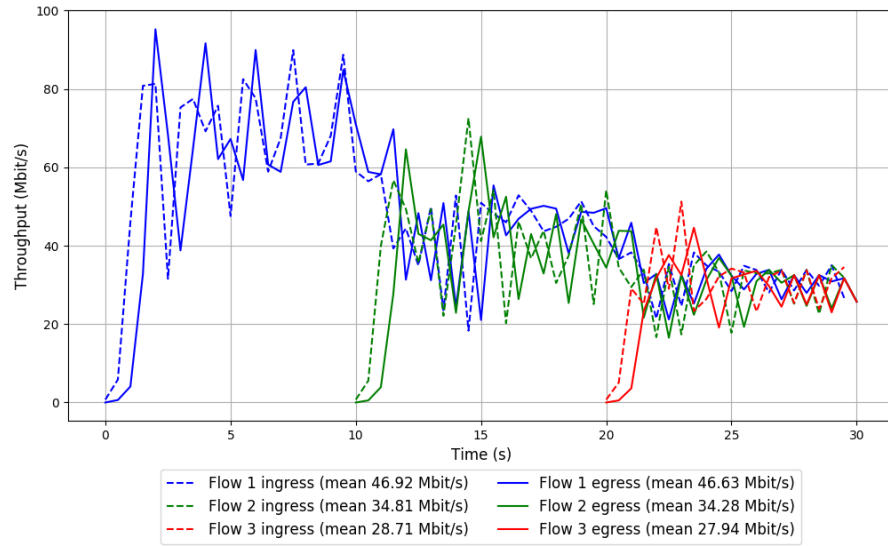
-- Flow 3:

Average throughput: 27.94 Mbit/s

95th percentile per-packet one-way delay: 112.468 ms

Loss rate: 4.36%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-08-10 03:16:55

End at: 2018-08-10 03:17:25

Local clock offset: -3.276 ms

Remote clock offset: 8.157 ms

Below is generated by plot.py at 2018-08-10 04:54:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.21 Mbit/s

95th percentile per-packet one-way delay: 113.794 ms

Loss rate: 2.02%

-- Flow 1:

Average throughput: 45.32 Mbit/s

95th percentile per-packet one-way delay: 111.798 ms

Loss rate: 1.41%

-- Flow 2:

Average throughput: 35.05 Mbit/s

95th percentile per-packet one-way delay: 114.016 ms

Loss rate: 2.45%

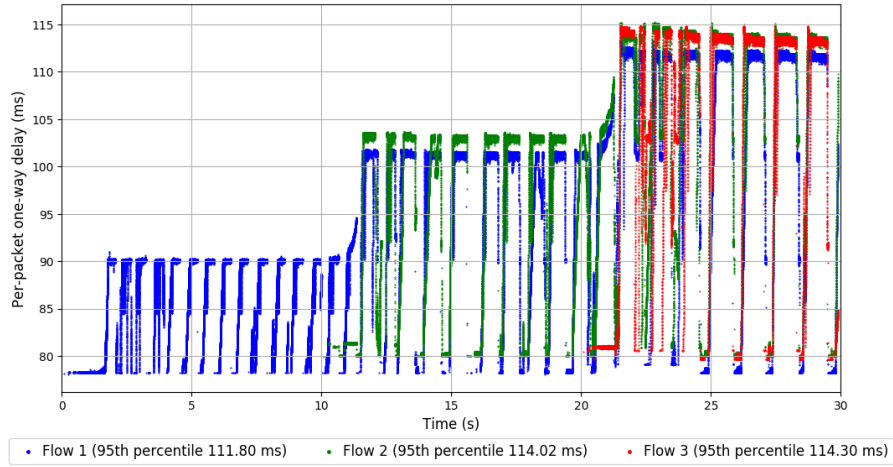
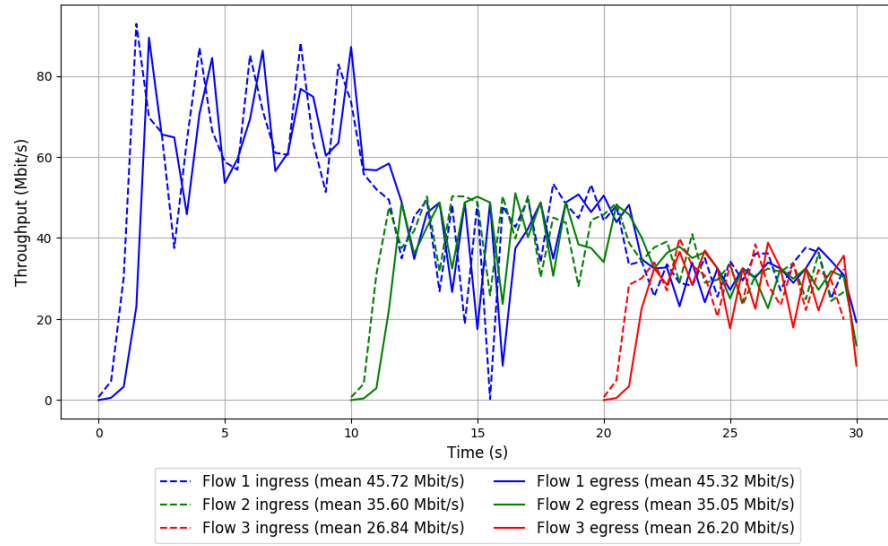
-- Flow 3:

Average throughput: 26.20 Mbit/s

95th percentile per-packet one-way delay: 114.304 ms

Loss rate: 4.01%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-08-10 03:38:01

End at: 2018-08-10 03:38:31

Local clock offset: -4.24 ms

Remote clock offset: 3.111 ms

Below is generated by plot.py at 2018-08-10 04:54:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.61 Mbit/s

95th percentile per-packet one-way delay: 118.171 ms

Loss rate: 1.99%

-- Flow 1:

Average throughput: 46.62 Mbit/s

95th percentile per-packet one-way delay: 118.437 ms

Loss rate: 1.34%

-- Flow 2:

Average throughput: 35.70 Mbit/s

95th percentile per-packet one-way delay: 116.401 ms

Loss rate: 2.30%

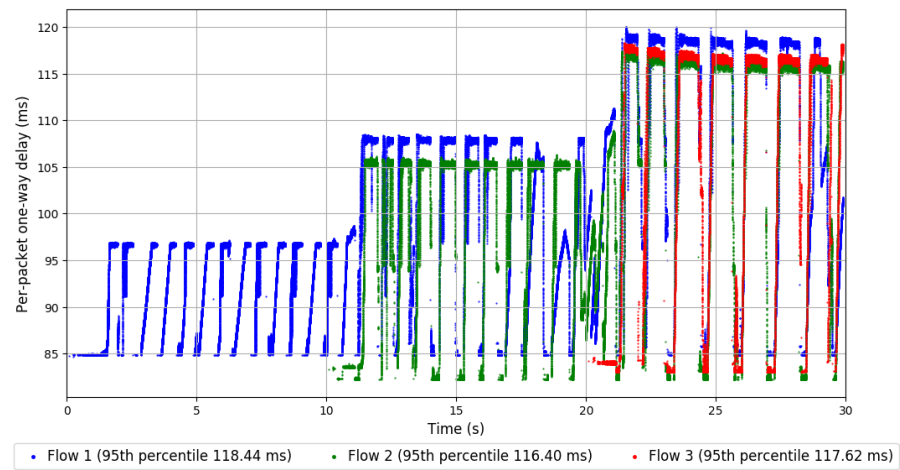
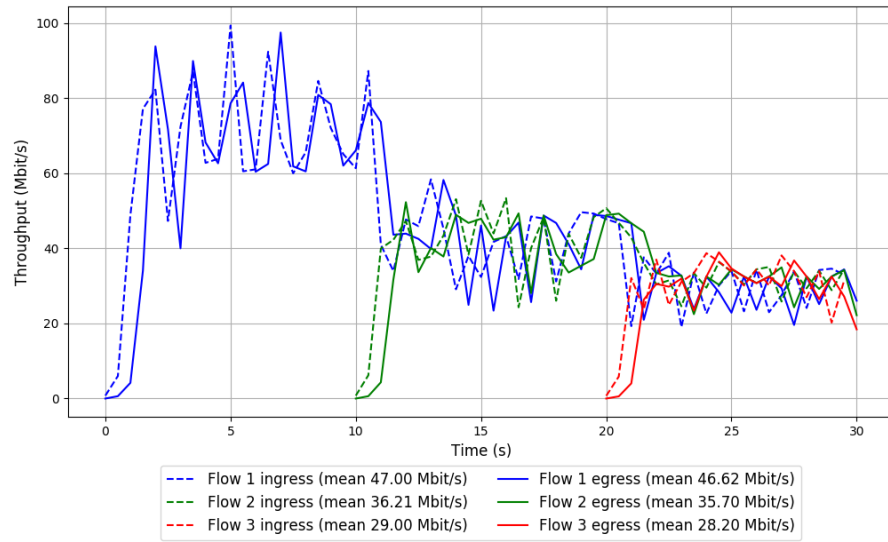
-- Flow 3:

Average throughput: 28.20 Mbit/s

95th percentile per-packet one-way delay: 117.621 ms

Loss rate: 4.35%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-08-10 03:59:07

End at: 2018-08-10 03:59:37

Local clock offset: -2.476 ms

Remote clock offset: 6.723 ms

Below is generated by plot.py at 2018-08-10 04:54:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.62 Mbit/s

95th percentile per-packet one-way delay: 114.885 ms

Loss rate: 1.96%

-- Flow 1:

Average throughput: 48.10 Mbit/s

95th percentile per-packet one-way delay: 114.546 ms

Loss rate: 1.19%

-- Flow 2:

Average throughput: 35.86 Mbit/s

95th percentile per-packet one-way delay: 114.563 ms

Loss rate: 2.60%

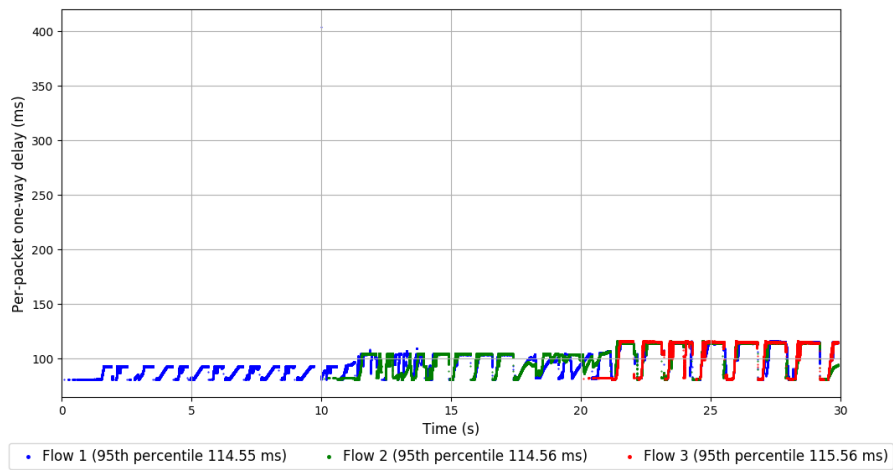
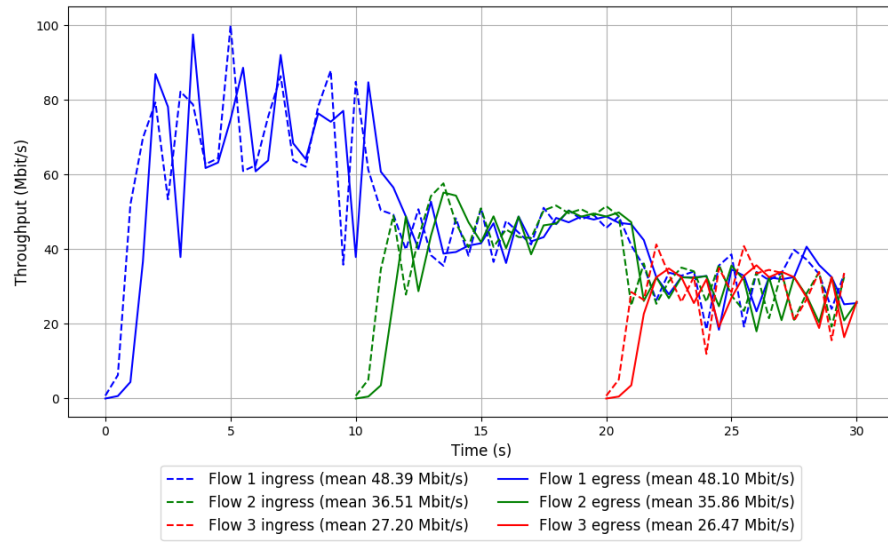
-- Flow 3:

Average throughput: 26.47 Mbit/s

95th percentile per-packet one-way delay: 115.565 ms

Loss rate: 4.34%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-08-10 04:20:18

End at: 2018-08-10 04:20:48

Local clock offset: -3.003 ms

Remote clock offset: 0.046 ms

Below is generated by plot.py at 2018-08-10 04:55:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.03 Mbit/s

95th percentile per-packet one-way delay: 118.595 ms

Loss rate: 1.78%

-- Flow 1:

Average throughput: 46.54 Mbit/s

95th percentile per-packet one-way delay: 119.060 ms

Loss rate: 1.11%

-- Flow 2:

Average throughput: 34.55 Mbit/s

95th percentile per-packet one-way delay: 117.169 ms

Loss rate: 2.04%

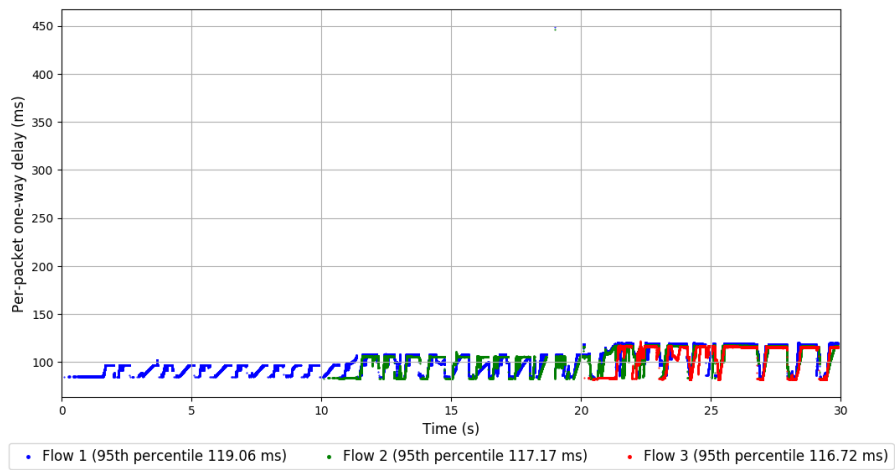
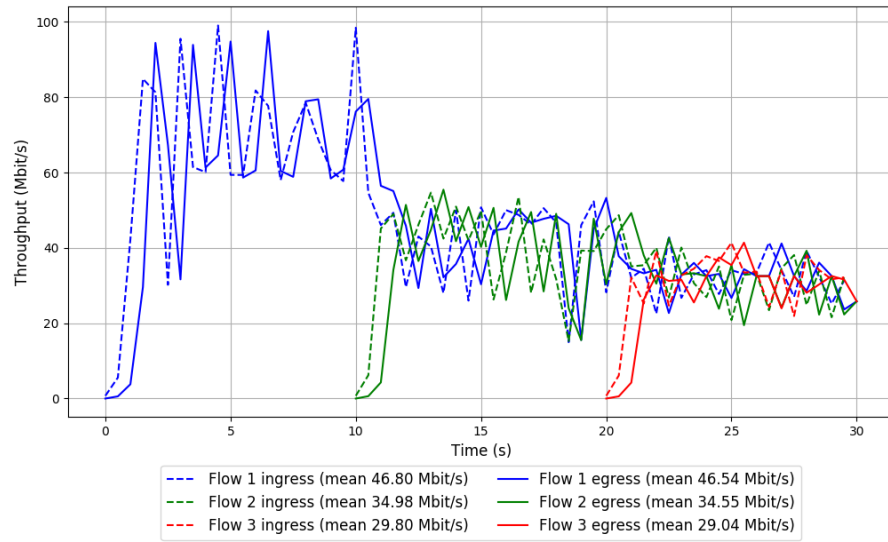
-- Flow 3:

Average throughput: 29.04 Mbit/s

95th percentile per-packet one-way delay: 116.719 ms

Loss rate: 4.33%

Run 9: Report of TCP BBR — Data Link

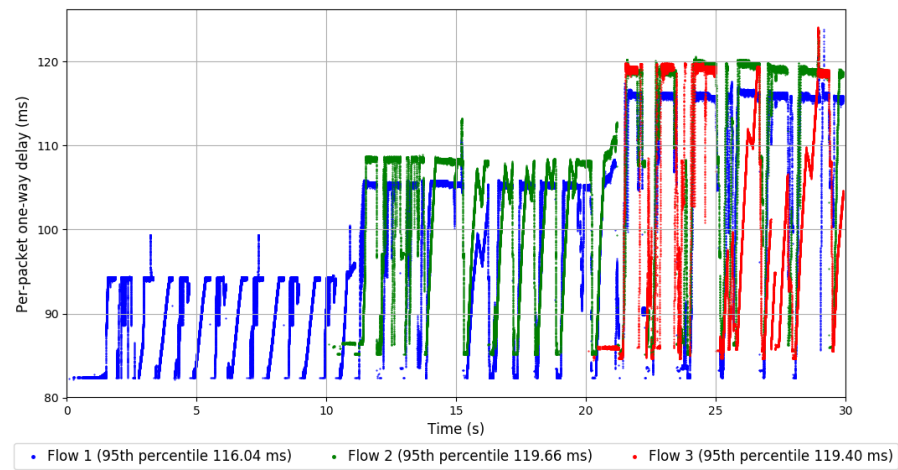
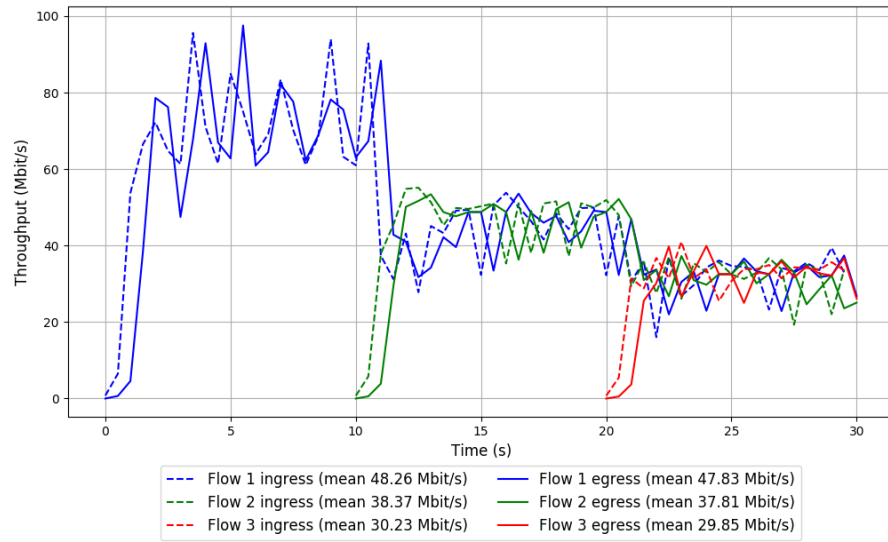


Run 10: Statistics of TCP BBR

Start at: 2018-08-10 04:41:36
End at: 2018-08-10 04:42:06
Local clock offset: -3.041 ms
Remote clock offset: -1.979 ms

Below is generated by plot.py at 2018-08-10 04:55:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 82.75 Mbit/s
95th percentile per-packet one-way delay: 119.072 ms
Loss rate: 1.90%
-- Flow 1:
Average throughput: 47.83 Mbit/s
95th percentile per-packet one-way delay: 116.043 ms
Loss rate: 1.49%
-- Flow 2:
Average throughput: 37.81 Mbit/s
95th percentile per-packet one-way delay: 119.656 ms
Loss rate: 2.27%
-- Flow 3:
Average throughput: 29.85 Mbit/s
95th percentile per-packet one-way delay: 119.404 ms
Loss rate: 2.90%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-08-10 01:25:09

End at: 2018-08-10 01:25:39

Local clock offset: -3.636 ms

Remote clock offset: 1.474 ms

Below is generated by plot.py at 2018-08-10 04:55:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 42.28 Mbit/s

95th percentile per-packet one-way delay: 85.733 ms

Loss rate: 1.09%

-- Flow 1:

Average throughput: 16.53 Mbit/s

95th percentile per-packet one-way delay: 84.817 ms

Loss rate: 1.25%

-- Flow 2:

Average throughput: 35.63 Mbit/s

95th percentile per-packet one-way delay: 85.980 ms

Loss rate: 0.90%

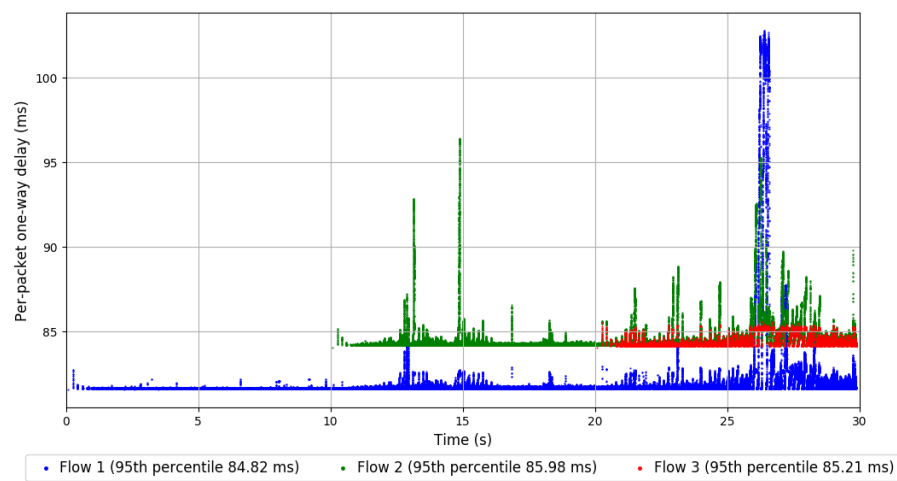
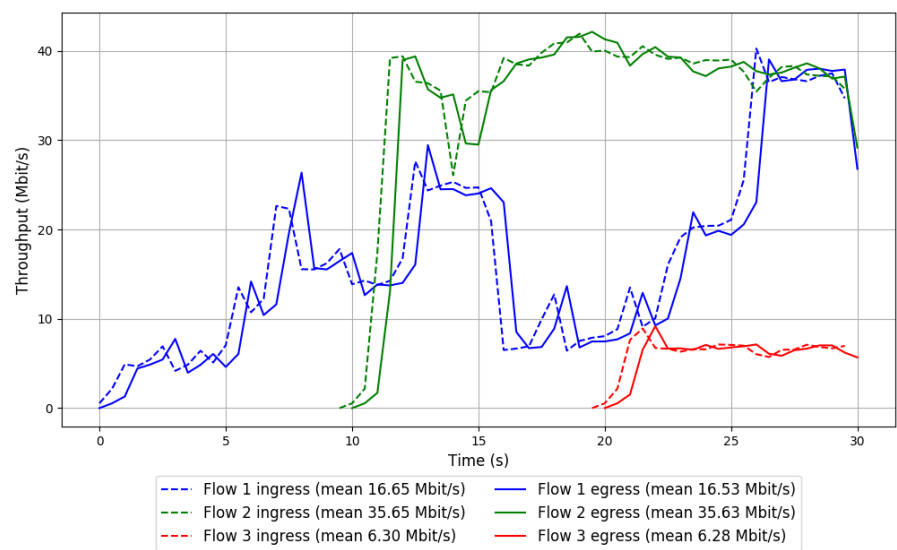
-- Flow 3:

Average throughput: 6.28 Mbit/s

95th percentile per-packet one-way delay: 85.212 ms

Loss rate: 2.06%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-08-10 01:46:18

End at: 2018-08-10 01:46:48

Local clock offset: -2.859 ms

Remote clock offset: 1.776 ms

Below is generated by plot.py at 2018-08-10 04:55:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.18 Mbit/s

95th percentile per-packet one-way delay: 82.546 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 6.27 Mbit/s

95th percentile per-packet one-way delay: 82.337 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 6.14 Mbit/s

95th percentile per-packet one-way delay: 82.582 ms

Loss rate: 0.62%

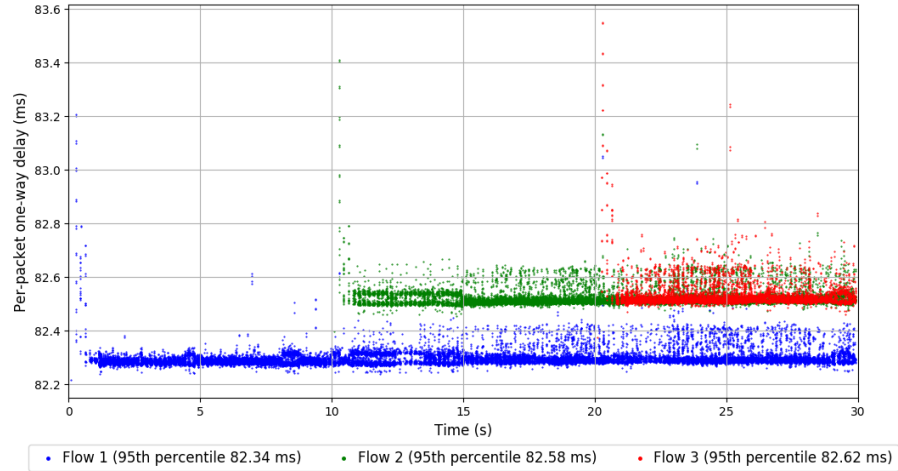
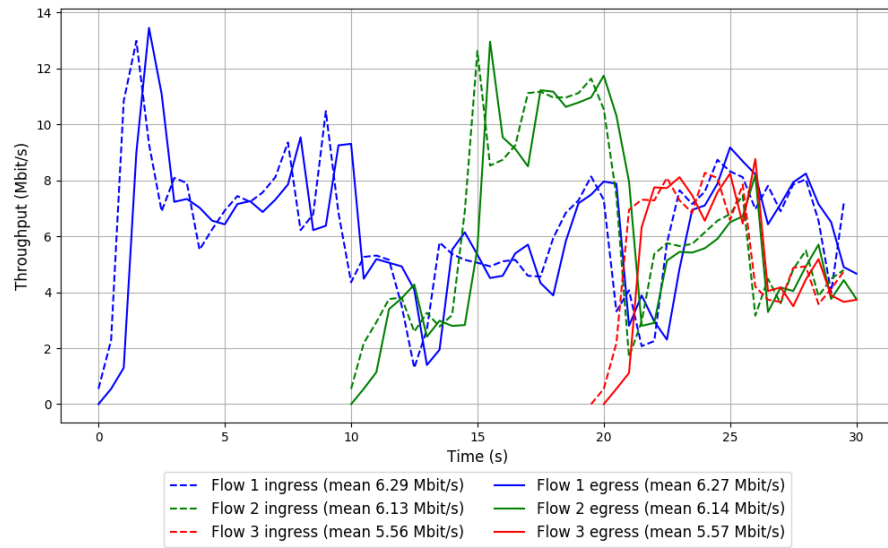
-- Flow 3:

Average throughput: 5.57 Mbit/s

95th percentile per-packet one-way delay: 82.616 ms

Loss rate: 1.66%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-08-10 02:07:23

End at: 2018-08-10 02:07:53

Local clock offset: -3.701 ms

Remote clock offset: 3.112 ms

Below is generated by plot.py at 2018-08-10 04:55:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 14.85 Mbit/s

95th percentile per-packet one-way delay: 82.813 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 5.37 Mbit/s

95th percentile per-packet one-way delay: 82.865 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 7.06 Mbit/s

95th percentile per-packet one-way delay: 82.518 ms

Loss rate: 0.85%

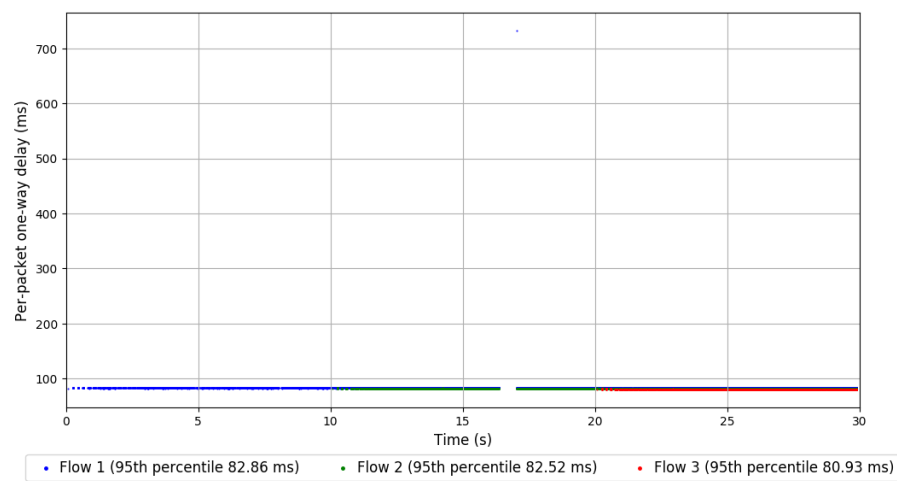
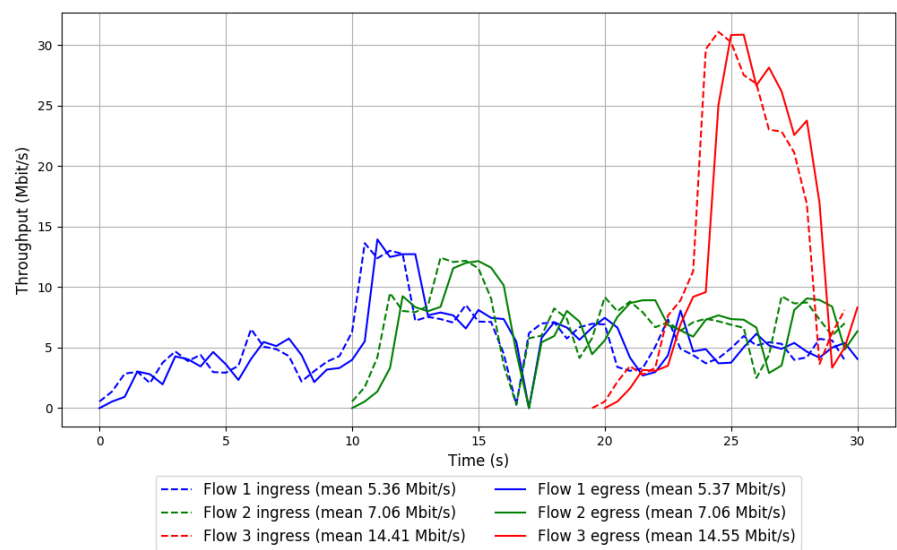
-- Flow 3:

Average throughput: 14.55 Mbit/s

95th percentile per-packet one-way delay: 80.930 ms

Loss rate: 0.70%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-08-10 02:28:25

End at: 2018-08-10 02:28:55

Local clock offset: -3.465 ms

Remote clock offset: 2.386 ms

Below is generated by plot.py at 2018-08-10 04:55:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 63.32 Mbit/s

95th percentile per-packet one-way delay: 94.440 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 45.32 Mbit/s

95th percentile per-packet one-way delay: 94.367 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 19.90 Mbit/s

95th percentile per-packet one-way delay: 101.326 ms

Loss rate: 1.32%

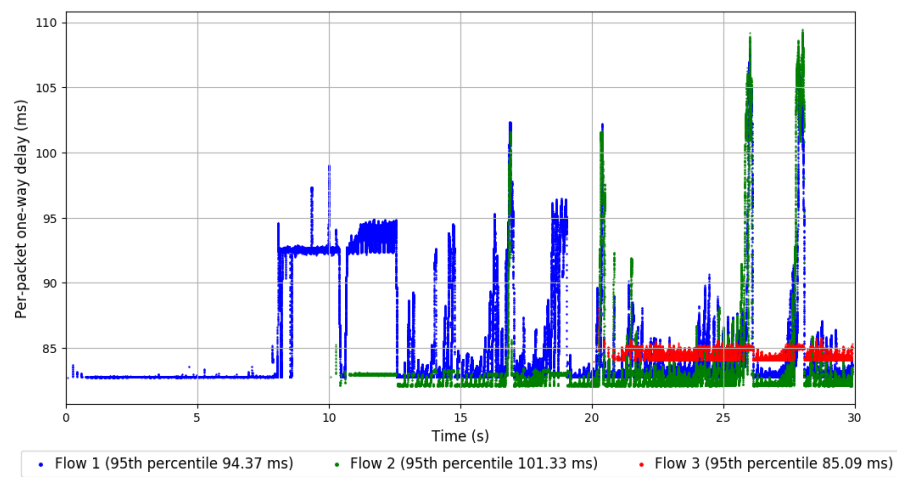
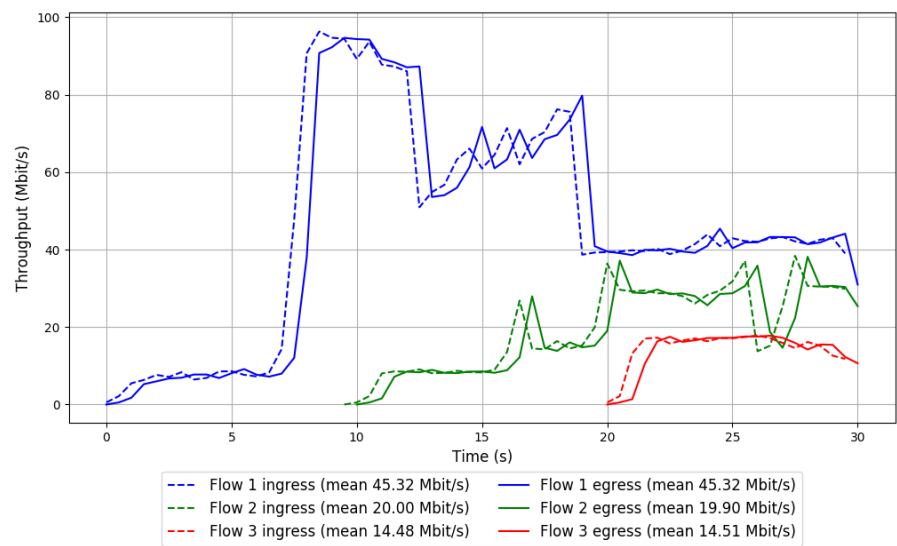
-- Flow 3:

Average throughput: 14.51 Mbit/s

95th percentile per-packet one-way delay: 85.089 ms

Loss rate: 1.40%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-08-10 02:49:32

End at: 2018-08-10 02:50:02

Local clock offset: -4.242 ms

Remote clock offset: 9.977 ms

Below is generated by plot.py at 2018-08-10 04:55:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.49 Mbit/s

95th percentile per-packet one-way delay: 76.303 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 5.91 Mbit/s

95th percentile per-packet one-way delay: 75.510 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 6.47 Mbit/s

95th percentile per-packet one-way delay: 76.361 ms

Loss rate: 1.14%

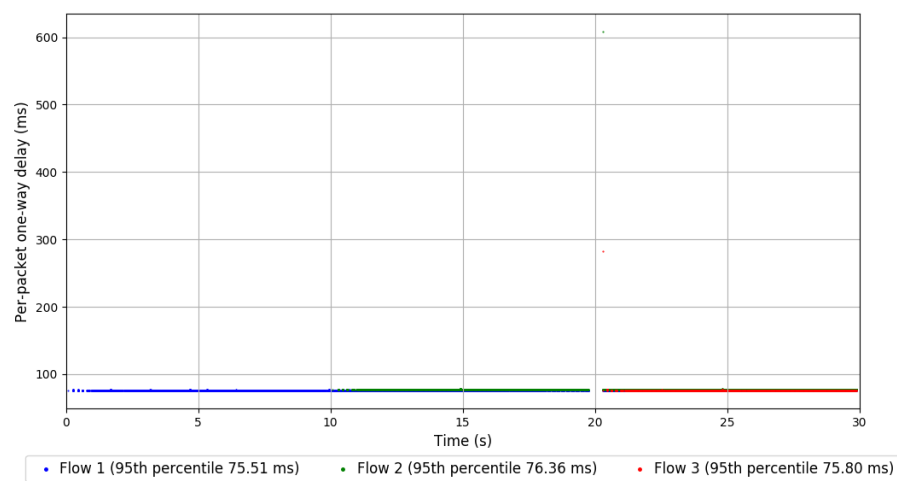
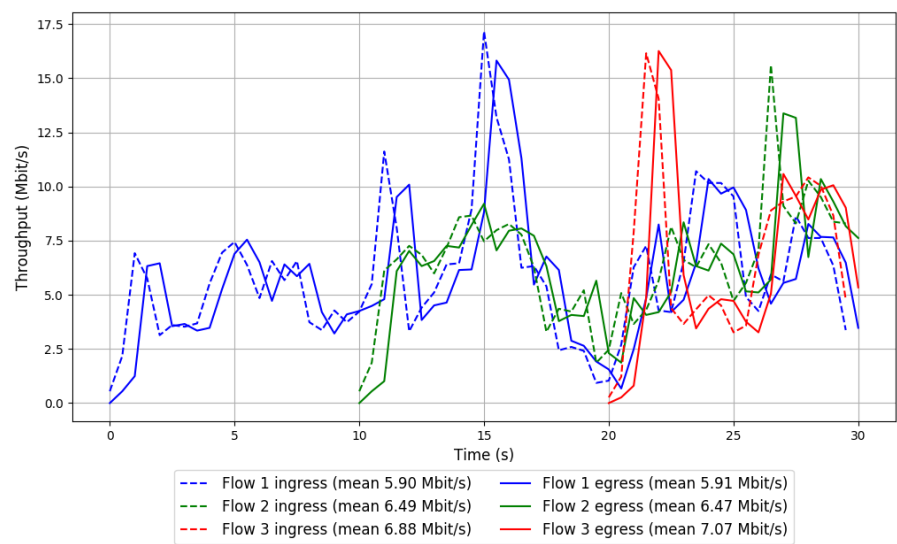
-- Flow 3:

Average throughput: 7.07 Mbit/s

95th percentile per-packet one-way delay: 75.801 ms

Loss rate: 0.72%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-08-10 03:10:44

End at: 2018-08-10 03:11:14

Local clock offset: -2.412 ms

Remote clock offset: 3.789 ms

Below is generated by plot.py at 2018-08-10 04:55:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 62.39 Mbit/s

95th percentile per-packet one-way delay: 98.625 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 54.21 Mbit/s

95th percentile per-packet one-way delay: 98.937 ms

Loss rate: 0.88%

-- Flow 2:

Average throughput: 8.48 Mbit/s

95th percentile per-packet one-way delay: 86.940 ms

Loss rate: 1.40%

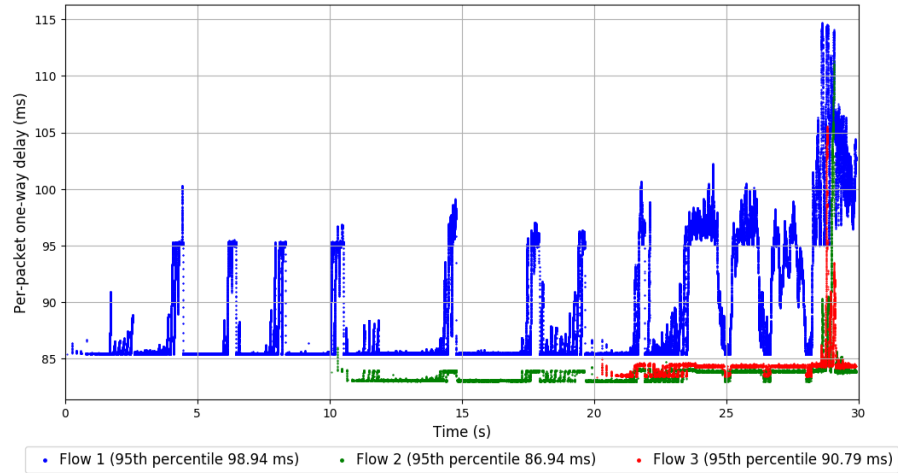
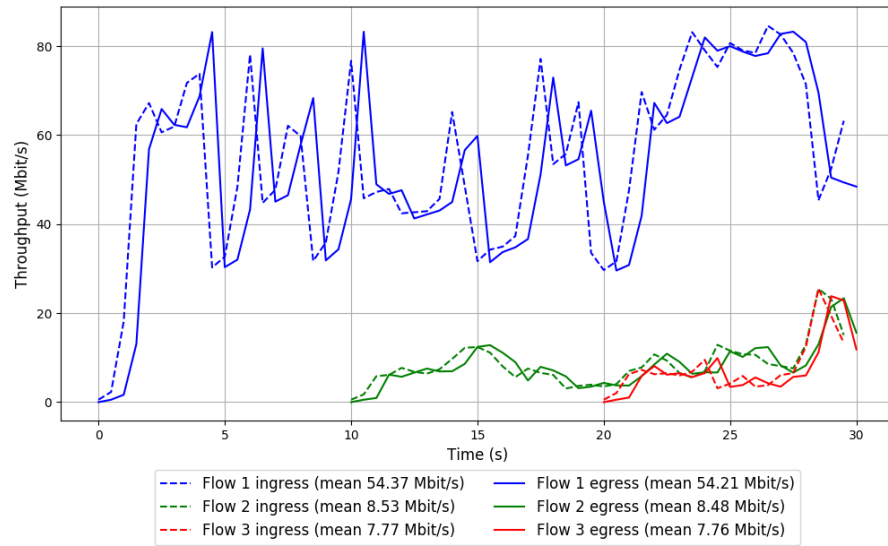
-- Flow 3:

Average throughput: 7.76 Mbit/s

95th percentile per-packet one-way delay: 90.787 ms

Loss rate: 1.76%

Run 6: Report of Copa — Data Link

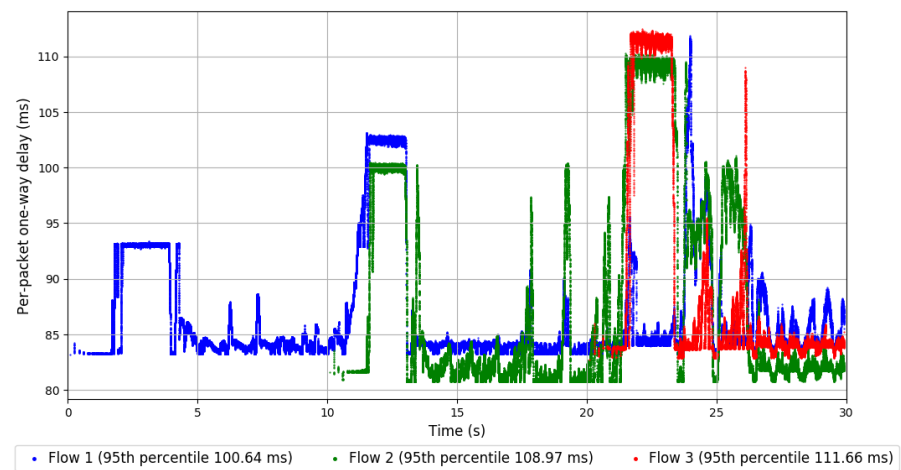
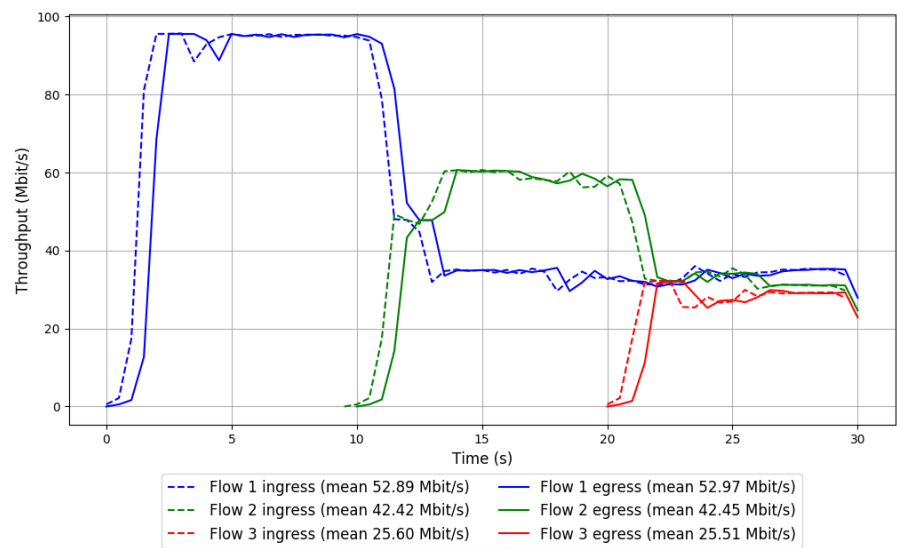


Run 7: Statistics of Copa

Start at: 2018-08-10 03:31:48
End at: 2018-08-10 03:32:18
Local clock offset: -4.802 ms
Remote clock offset: 4.14 ms

Below is generated by plot.py at 2018-08-10 04:56:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.57 Mbit/s
95th percentile per-packet one-way delay: 102.672 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 52.97 Mbit/s
95th percentile per-packet one-way delay: 100.645 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 42.45 Mbit/s
95th percentile per-packet one-way delay: 108.973 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 25.51 Mbit/s
95th percentile per-packet one-way delay: 111.655 ms
Loss rate: 2.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-08-10 03:52:53

End at: 2018-08-10 03:53:23

Local clock offset: -4.33 ms

Remote clock offset: 3.147 ms

Below is generated by plot.py at 2018-08-10 04:56:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.74 Mbit/s

95th percentile per-packet one-way delay: 105.611 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 46.99 Mbit/s

95th percentile per-packet one-way delay: 104.064 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 41.89 Mbit/s

95th percentile per-packet one-way delay: 108.330 ms

Loss rate: 0.78%

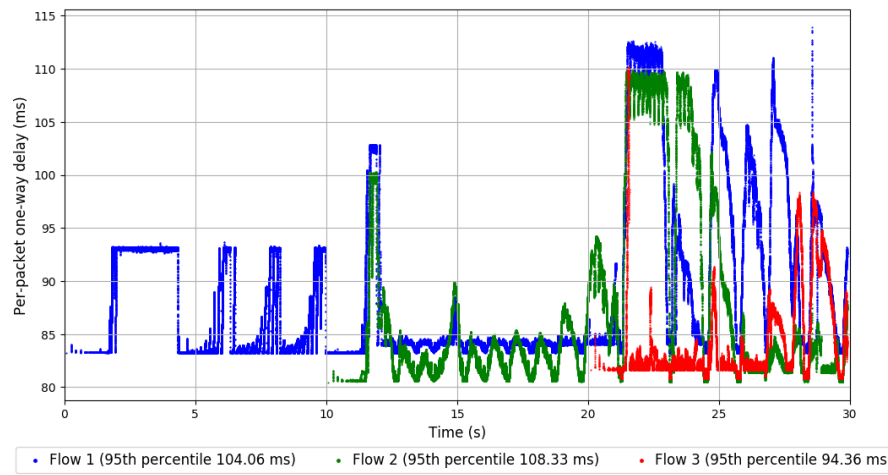
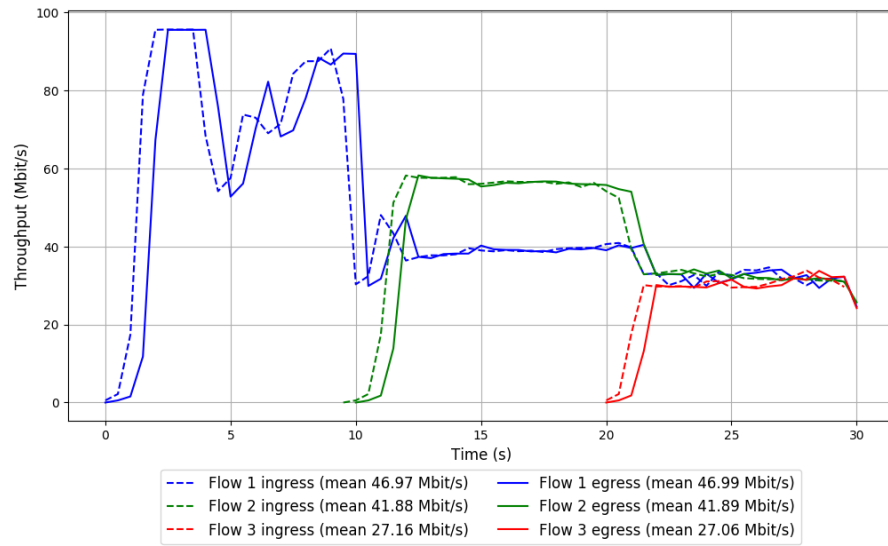
-- Flow 3:

Average throughput: 27.06 Mbit/s

95th percentile per-packet one-way delay: 94.361 ms

Loss rate: 2.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-08-10 04:14:05

End at: 2018-08-10 04:14:35

Local clock offset: -3.72 ms

Remote clock offset: 1.363 ms

Below is generated by plot.py at 2018-08-10 04:56:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.65 Mbit/s

95th percentile per-packet one-way delay: 106.131 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 53.51 Mbit/s

95th percentile per-packet one-way delay: 105.936 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 33.55 Mbit/s

95th percentile per-packet one-way delay: 107.454 ms

Loss rate: 0.91%

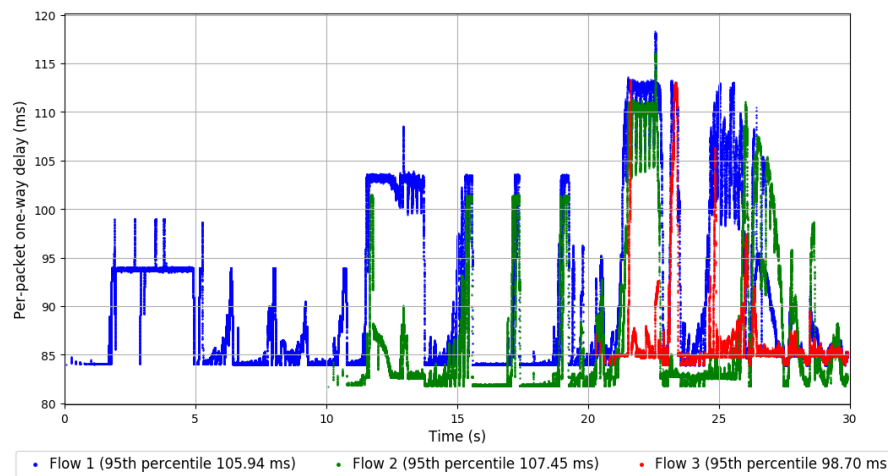
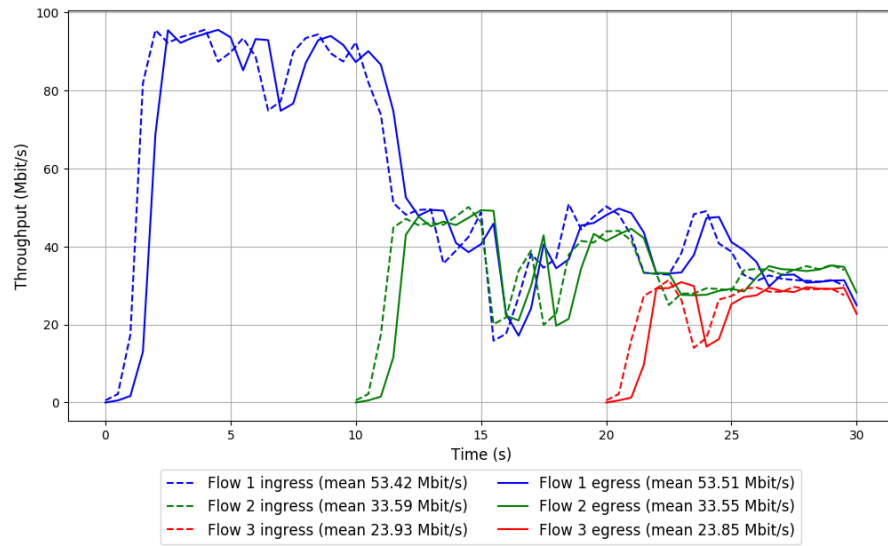
-- Flow 3:

Average throughput: 23.85 Mbit/s

95th percentile per-packet one-way delay: 98.696 ms

Loss rate: 2.03%

Run 9: Report of Copa — Data Link

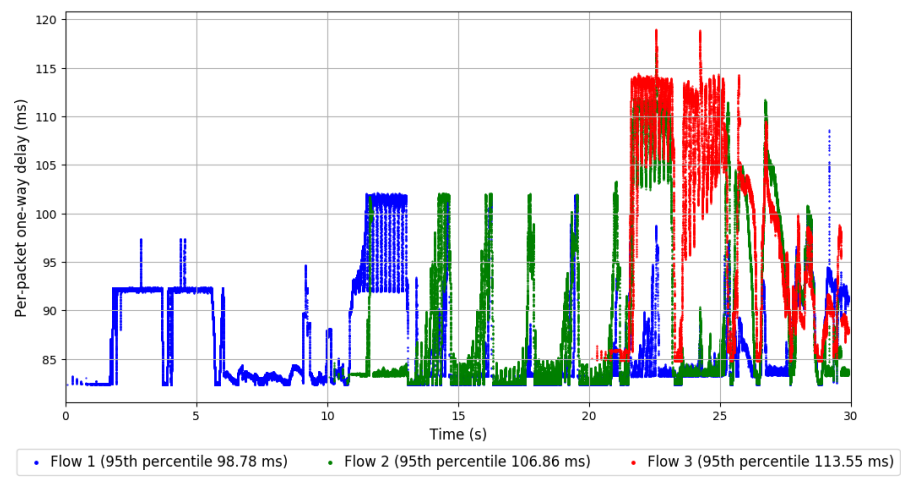
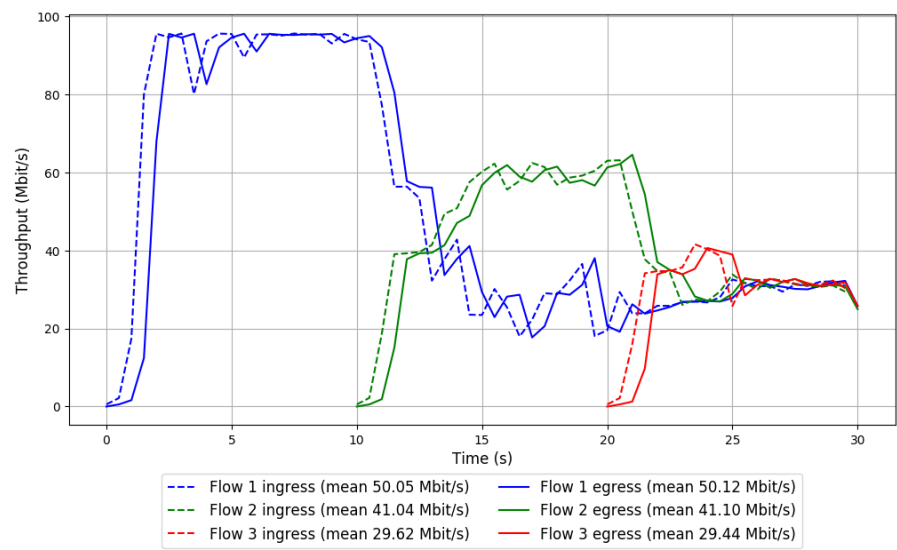


Run 10: Statistics of Copa

Start at: 2018-08-10 04:35:12
End at: 2018-08-10 04:35:42
Local clock offset: -3.048 ms
Remote clock offset: -1.529 ms

Below is generated by plot.py at 2018-08-10 04:57:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.11 Mbit/s
95th percentile per-packet one-way delay: 106.624 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 50.12 Mbit/s
95th percentile per-packet one-way delay: 98.785 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 41.10 Mbit/s
95th percentile per-packet one-way delay: 106.855 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 29.44 Mbit/s
95th percentile per-packet one-way delay: 113.545 ms
Loss rate: 2.26%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-08-10 01:20:07

End at: 2018-08-10 01:20:37

Local clock offset: -3.718 ms

Remote clock offset: 1.57 ms

Below is generated by plot.py at 2018-08-10 04:57:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.95 Mbit/s

95th percentile per-packet one-way delay: 96.048 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 48.25 Mbit/s

95th percentile per-packet one-way delay: 95.988 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 30.09 Mbit/s

95th percentile per-packet one-way delay: 100.383 ms

Loss rate: 0.60%

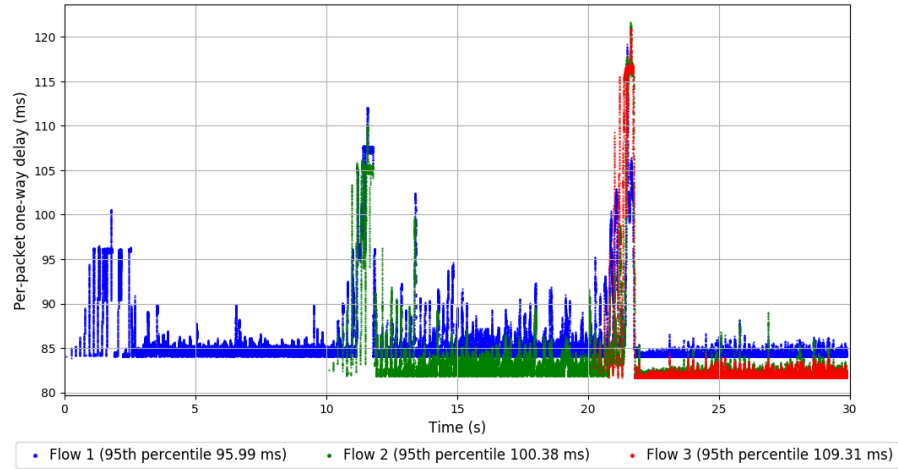
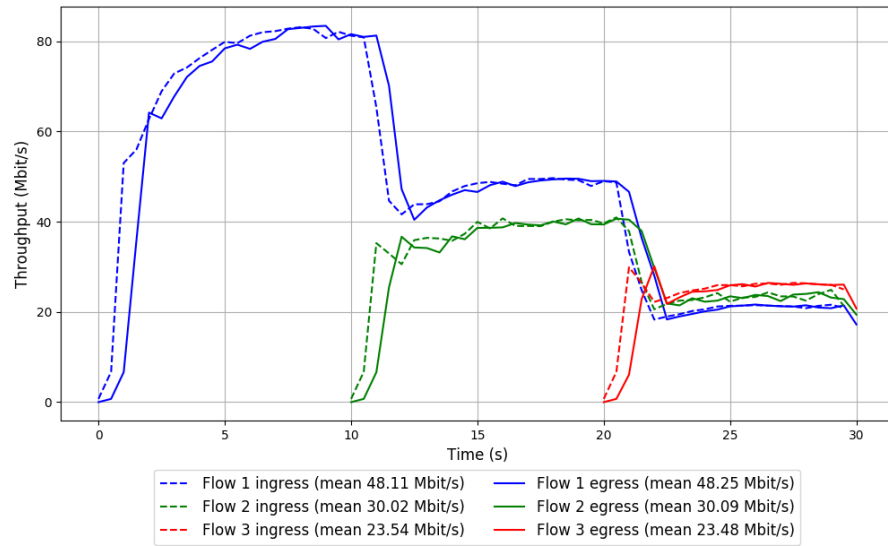
-- Flow 3:

Average throughput: 23.48 Mbit/s

95th percentile per-packet one-way delay: 109.315 ms

Loss rate: 1.89%

Run 1: Report of TCP Cubic — Data Link

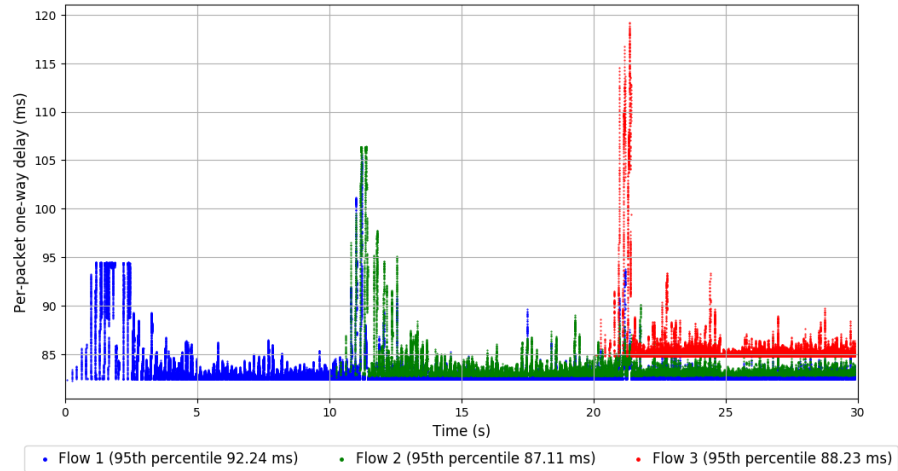
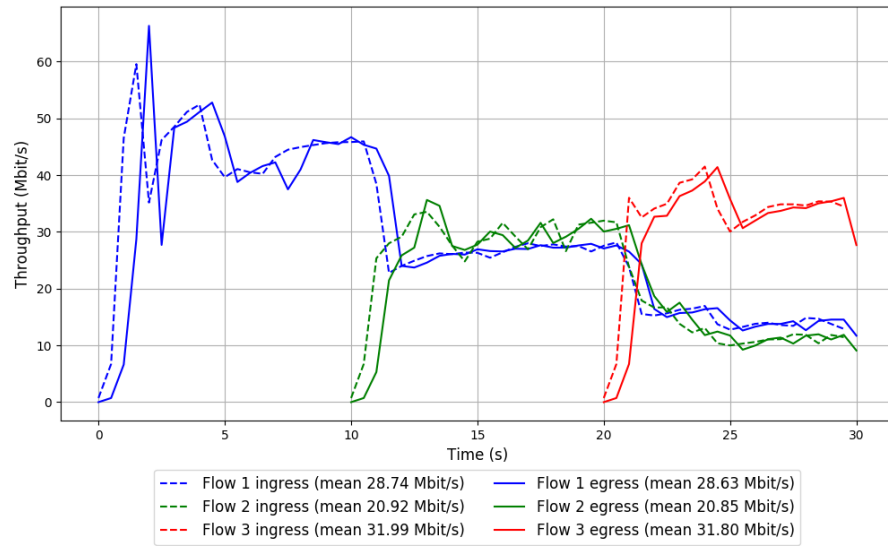


Run 2: Statistics of TCP Cubic

Start at: 2018-08-10 01:41:09
End at: 2018-08-10 01:41:39
Local clock offset: -2.866 ms
Remote clock offset: 1.669 ms

Below is generated by plot.py at 2018-08-10 04:57:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 52.92 Mbit/s
95th percentile per-packet one-way delay: 90.323 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 28.63 Mbit/s
95th percentile per-packet one-way delay: 92.244 ms
Loss rate: 0.94%
-- Flow 2:
Average throughput: 20.85 Mbit/s
95th percentile per-packet one-way delay: 87.105 ms
Loss rate: 1.20%
-- Flow 3:
Average throughput: 31.80 Mbit/s
95th percentile per-packet one-way delay: 88.231 ms
Loss rate: 2.25%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-08-10 02:02:20

End at: 2018-08-10 02:02:50

Local clock offset: -2.884 ms

Remote clock offset: 7.929 ms

Below is generated by plot.py at 2018-08-10 04:57:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.72 Mbit/s

95th percentile per-packet one-way delay: 91.010 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 46.22 Mbit/s

95th percentile per-packet one-way delay: 90.979 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 31.46 Mbit/s

95th percentile per-packet one-way delay: 93.009 ms

Loss rate: 0.66%

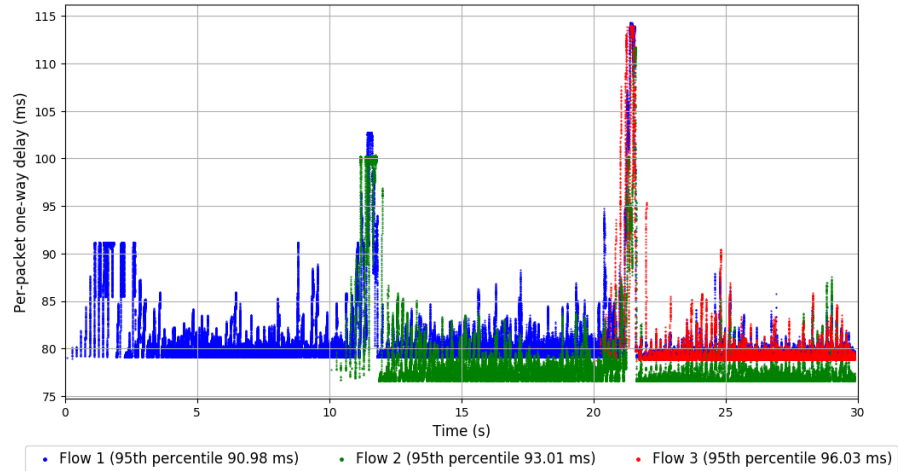
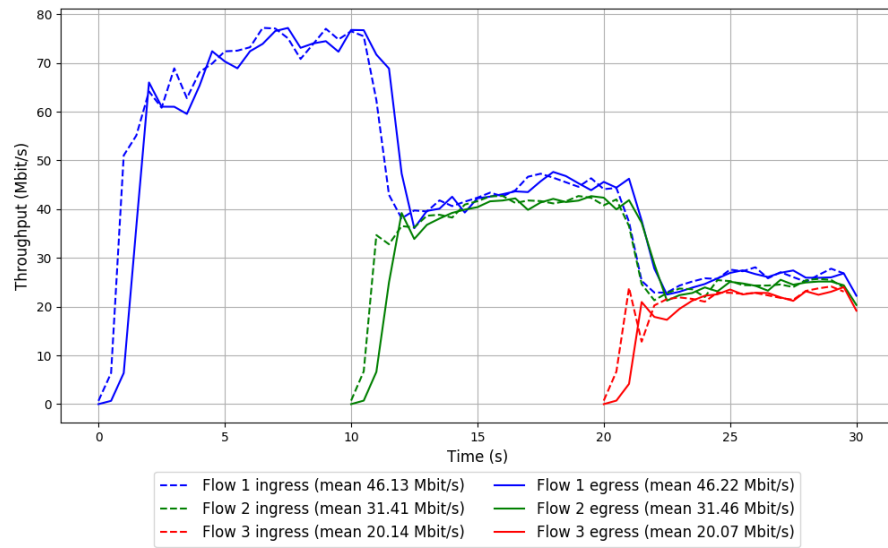
-- Flow 3:

Average throughput: 20.07 Mbit/s

95th percentile per-packet one-way delay: 96.033 ms

Loss rate: 2.02%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-08-10 02:23:22

End at: 2018-08-10 02:23:52

Local clock offset: -3.252 ms

Remote clock offset: 2.277 ms

Below is generated by plot.py at 2018-08-10 04:57:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.34 Mbit/s

95th percentile per-packet one-way delay: 94.754 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 45.46 Mbit/s

95th percentile per-packet one-way delay: 94.772 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 22.08 Mbit/s

95th percentile per-packet one-way delay: 92.800 ms

Loss rate: 0.97%

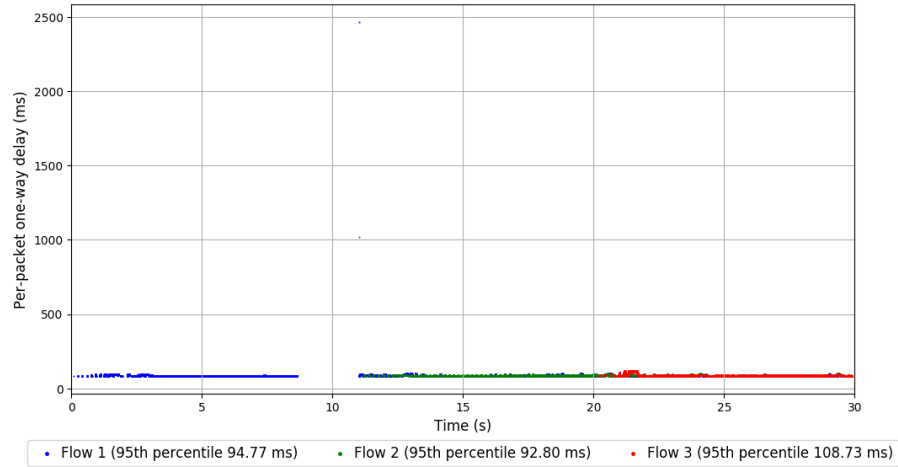
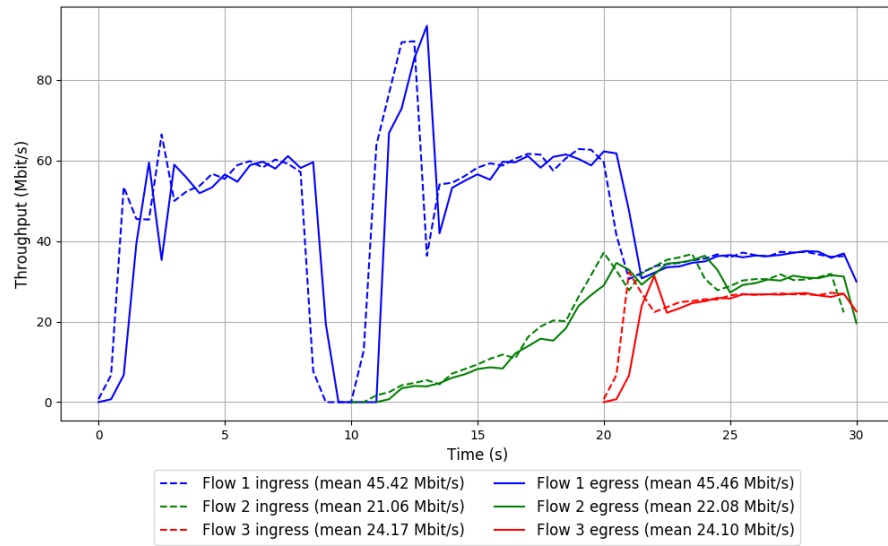
-- Flow 3:

Average throughput: 24.10 Mbit/s

95th percentile per-packet one-way delay: 108.729 ms

Loss rate: 1.92%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-08-10 02:44:29

End at: 2018-08-10 02:44:59

Local clock offset: -2.854 ms

Remote clock offset: 3.839 ms

Below is generated by plot.py at 2018-08-10 04:57:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.61 Mbit/s

95th percentile per-packet one-way delay: 97.446 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 46.15 Mbit/s

95th percentile per-packet one-way delay: 97.389 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 31.55 Mbit/s

95th percentile per-packet one-way delay: 97.200 ms

Loss rate: 0.69%

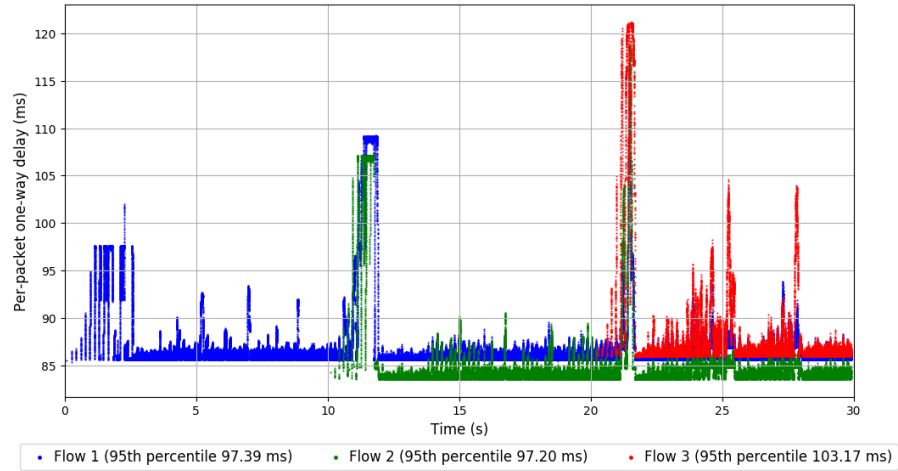
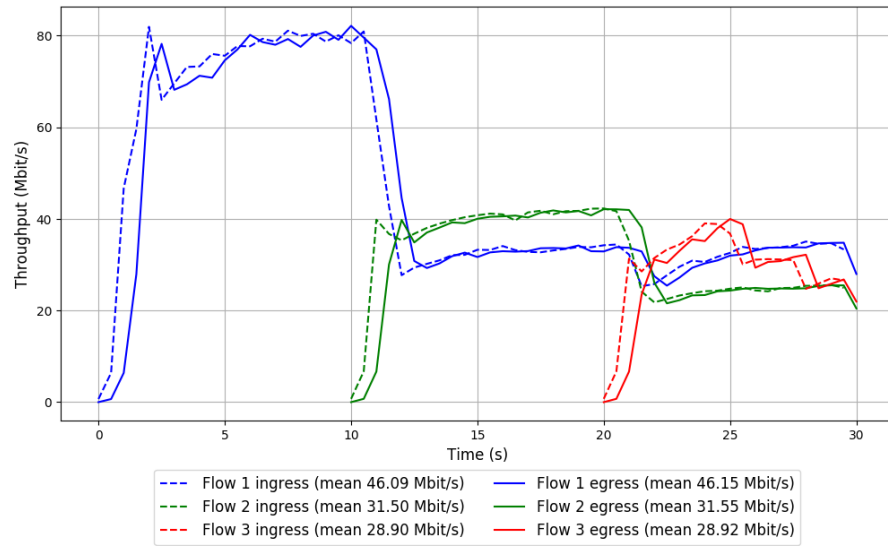
-- Flow 3:

Average throughput: 28.92 Mbit/s

95th percentile per-packet one-way delay: 103.172 ms

Loss rate: 1.62%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-08-10 03:05:33

End at: 2018-08-10 03:06:03

Local clock offset: -3.964 ms

Remote clock offset: 5.763 ms

Below is generated by plot.py at 2018-08-10 04:57:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.76 Mbit/s

95th percentile per-packet one-way delay: 90.582 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 51.89 Mbit/s

95th percentile per-packet one-way delay: 88.831 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 31.72 Mbit/s

95th percentile per-packet one-way delay: 99.346 ms

Loss rate: 0.70%

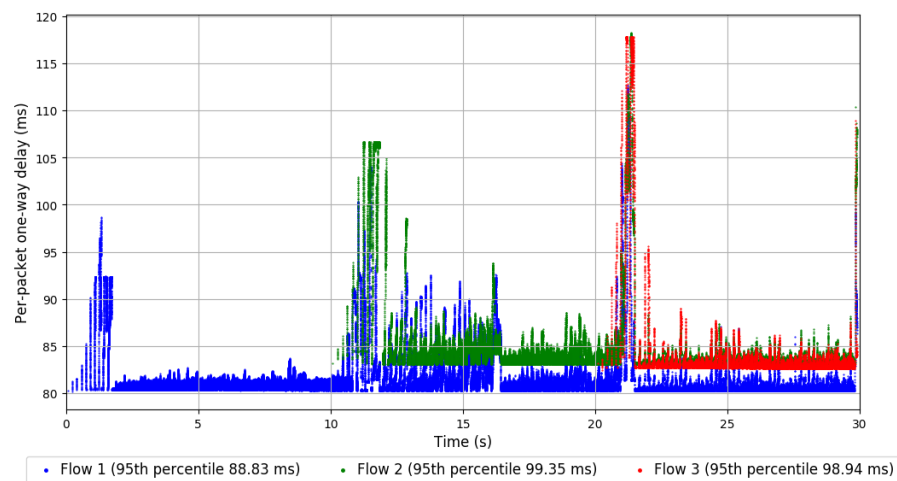
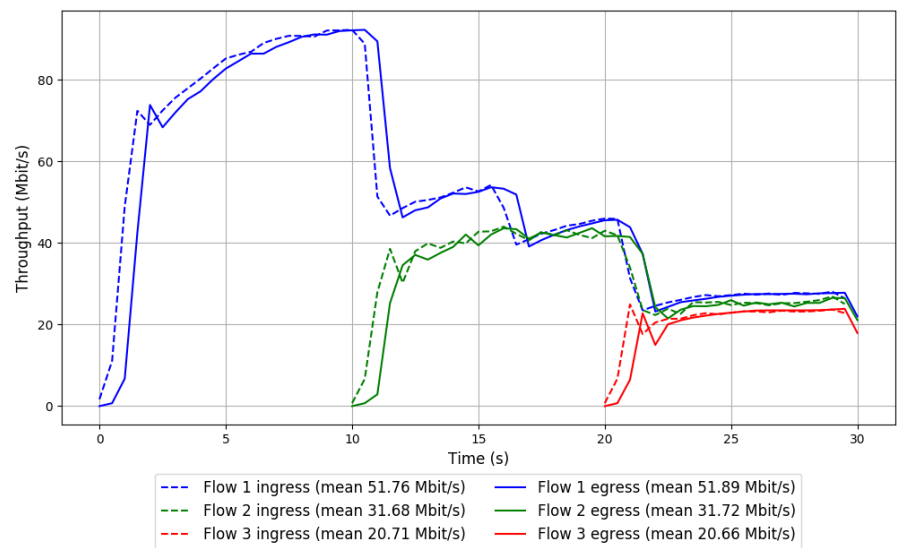
-- Flow 3:

Average throughput: 20.66 Mbit/s

95th percentile per-packet one-way delay: 98.941 ms

Loss rate: 1.92%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-08-10 03:26:44

End at: 2018-08-10 03:27:14

Local clock offset: -4.64 ms

Remote clock offset: 3.274 ms

Below is generated by plot.py at 2018-08-10 04:57:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.38 Mbit/s

95th percentile per-packet one-way delay: 95.795 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 49.72 Mbit/s

95th percentile per-packet one-way delay: 95.785 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 34.38 Mbit/s

95th percentile per-packet one-way delay: 95.597 ms

Loss rate: 0.98%

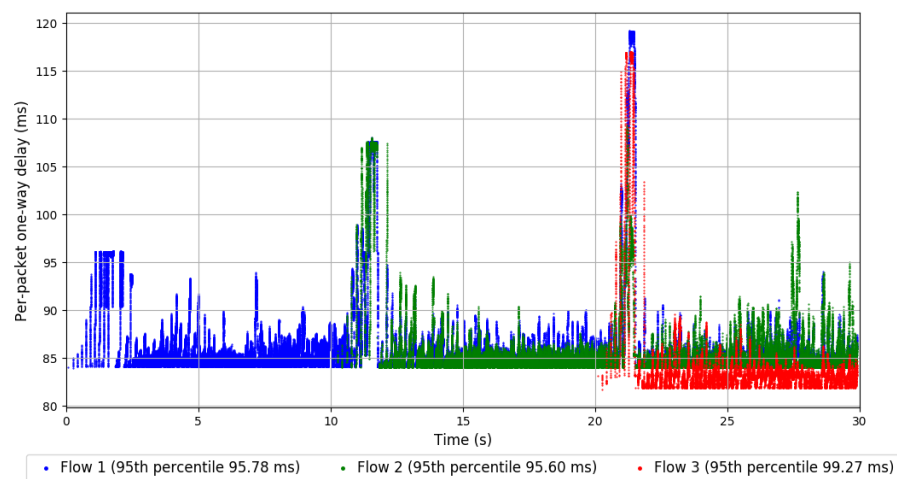
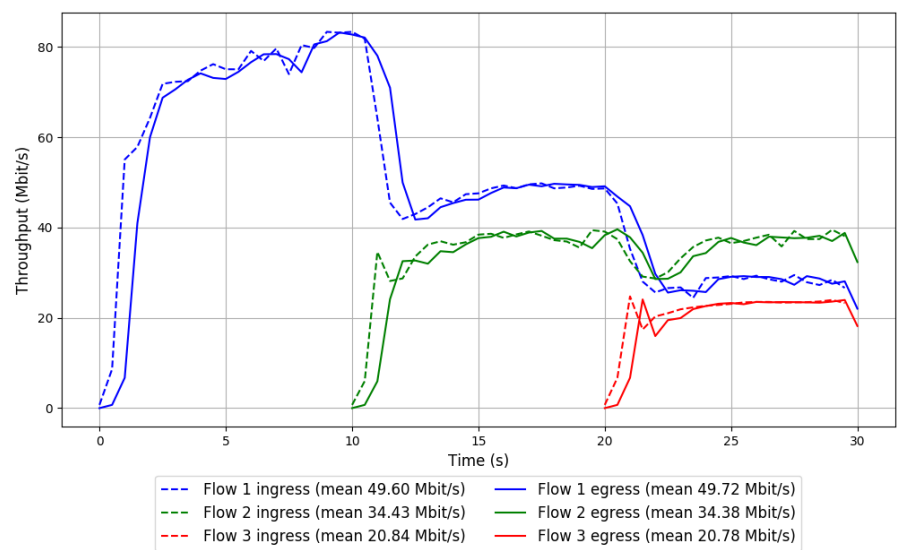
-- Flow 3:

Average throughput: 20.78 Mbit/s

95th percentile per-packet one-way delay: 99.273 ms

Loss rate: 1.94%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-08-10 03:47:50

End at: 2018-08-10 03:48:20

Local clock offset: -4.068 ms

Remote clock offset: 3.469 ms

Below is generated by plot.py at 2018-08-10 04:57:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.51 Mbit/s

95th percentile per-packet one-way delay: 95.514 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 47.68 Mbit/s

95th percentile per-packet one-way delay: 95.484 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 31.17 Mbit/s

95th percentile per-packet one-way delay: 95.463 ms

Loss rate: 0.69%

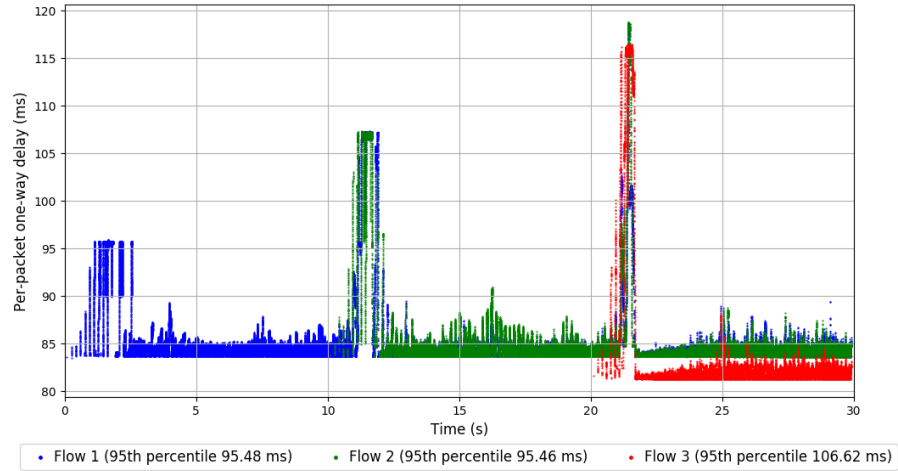
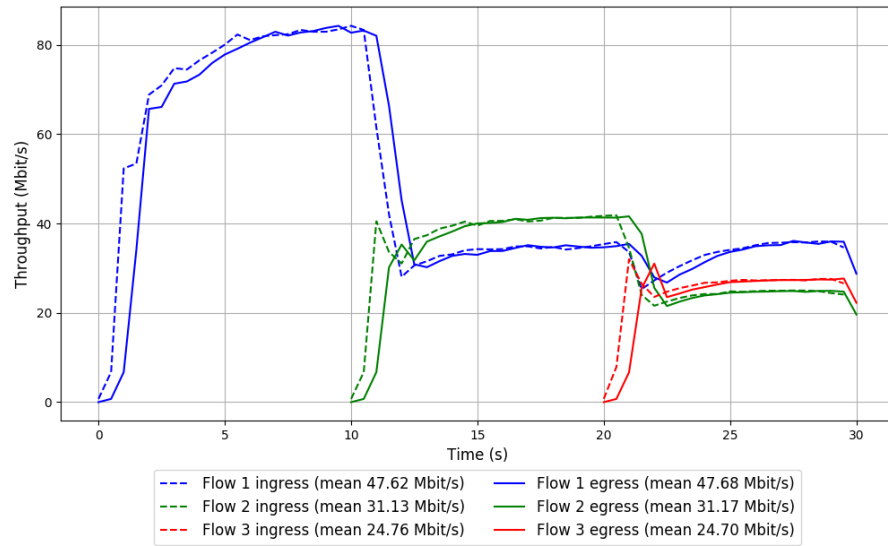
-- Flow 3:

Average throughput: 24.70 Mbit/s

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

Loss rate: 1.89%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-08-10 04:09:03

End at: 2018-08-10 04:09:33

Local clock offset: -3.073 ms

Remote clock offset: 1.742 ms

Below is generated by plot.py at 2018-08-10 04:57:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.72 Mbit/s

95th percentile per-packet one-way delay: 94.581 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 48.61 Mbit/s

95th percentile per-packet one-way delay: 94.100 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 31.93 Mbit/s

95th percentile per-packet one-way delay: 100.089 ms

Loss rate: 0.70%

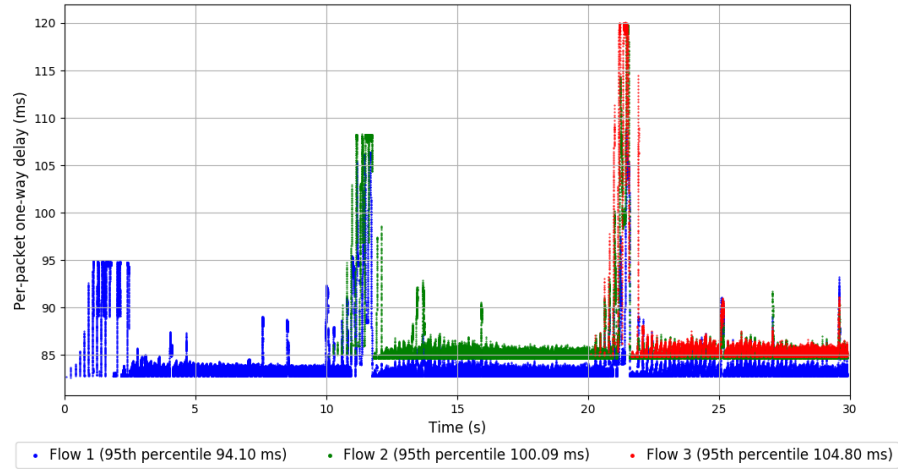
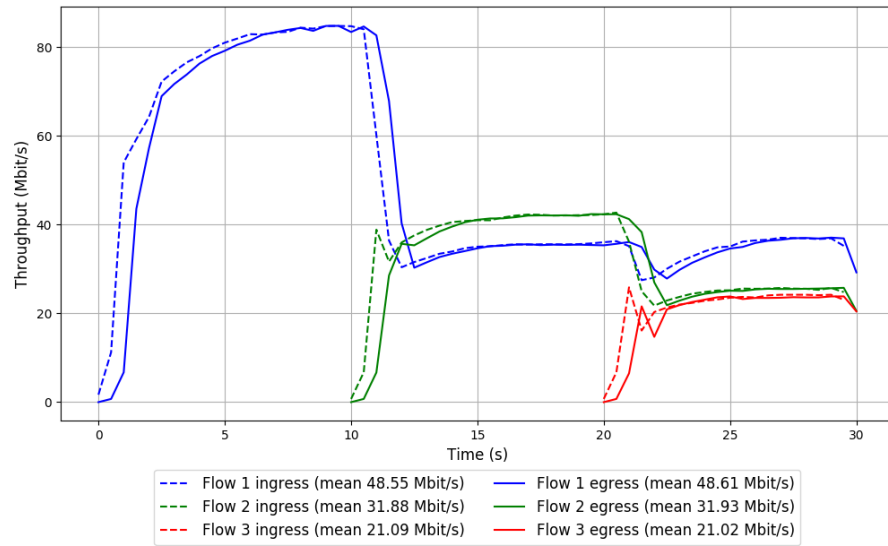
-- Flow 3:

Average throughput: 21.02 Mbit/s

95th percentile per-packet one-way delay: 104.796 ms

Loss rate: 1.96%

Run 9: Report of TCP Cubic — Data Link

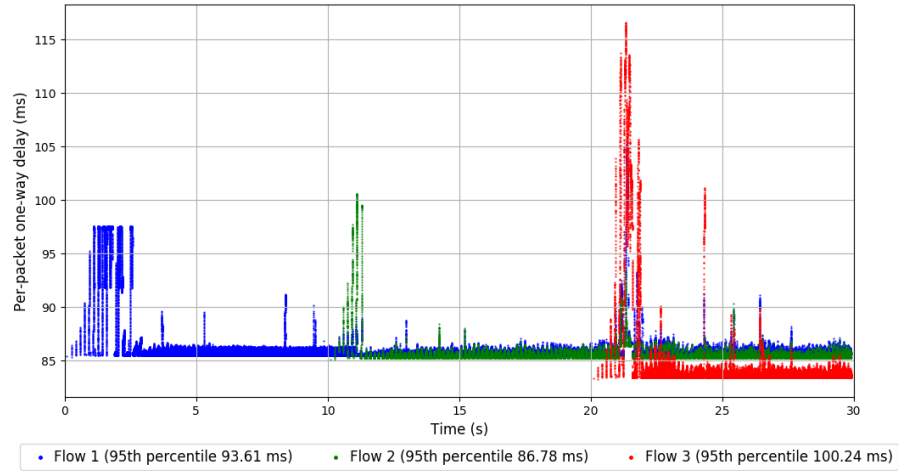
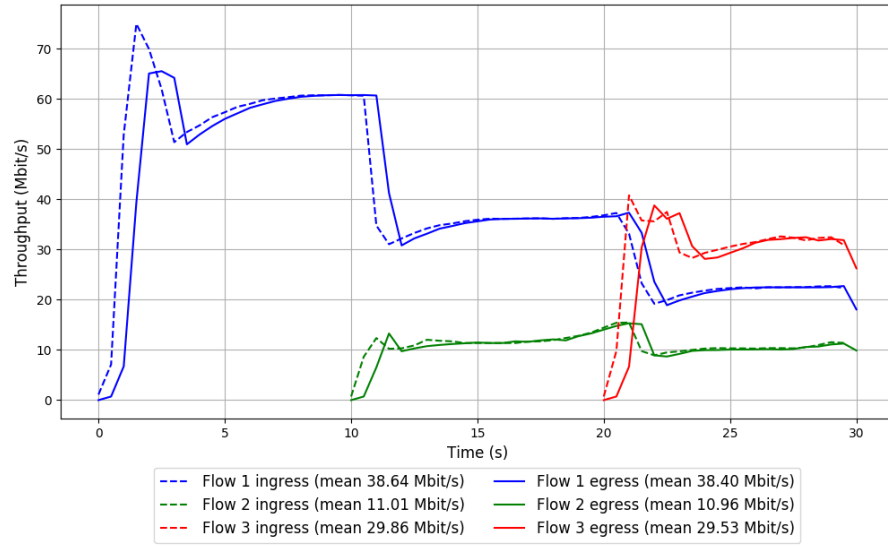


Run 10: Statistics of TCP Cubic

Start at: 2018-08-10 04:30:11
End at: 2018-08-10 04:30:41
Local clock offset: -2.272 ms
Remote clock offset: -1.141 ms

Below is generated by plot.py at 2018-08-10 04:57:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 55.39 Mbit/s
95th percentile per-packet one-way delay: 93.477 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 38.40 Mbit/s
95th percentile per-packet one-way delay: 93.606 ms
Loss rate: 1.17%
-- Flow 2:
Average throughput: 10.96 Mbit/s
95th percentile per-packet one-way delay: 86.783 ms
Loss rate: 1.25%
-- Flow 3:
Average throughput: 29.53 Mbit/s
95th percentile per-packet one-way delay: 100.241 ms
Loss rate: 2.70%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-08-10 01:30:04

End at: 2018-08-10 01:30:34

Local clock offset: -2.876 ms

Remote clock offset: 1.575 ms

Below is generated by plot.py at 2018-08-10 04:58:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.71 Mbit/s

95th percentile per-packet one-way delay: 112.615 ms

Loss rate: 2.39%

-- Flow 1:

Average throughput: 58.05 Mbit/s

95th percentile per-packet one-way delay: 112.127 ms

Loss rate: 1.44%

-- Flow 2:

Average throughput: 39.13 Mbit/s

95th percentile per-packet one-way delay: 110.825 ms

Loss rate: 3.42%

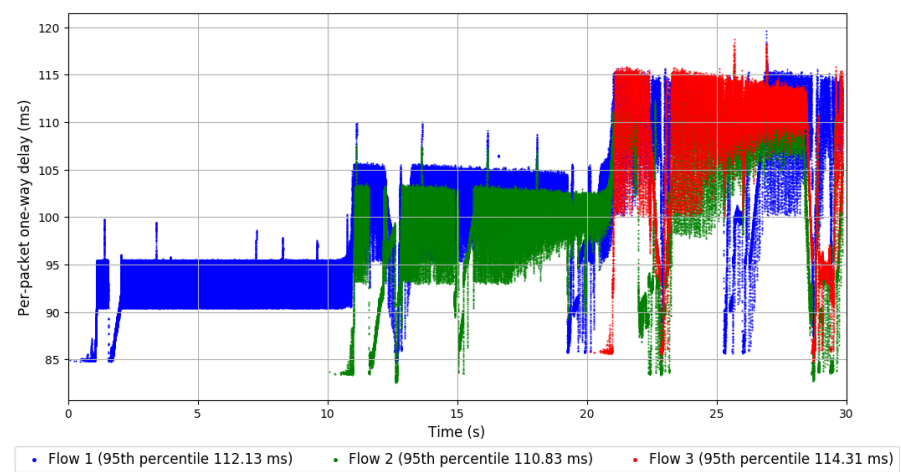
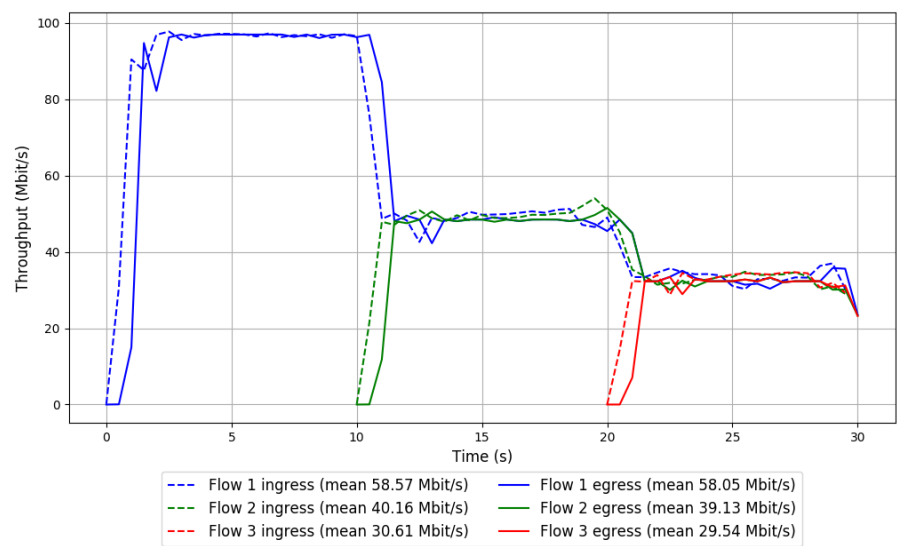
-- Flow 3:

Average throughput: 29.54 Mbit/s

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

Loss rate: 5.15%

Run 1: Report of FillP — Data Link

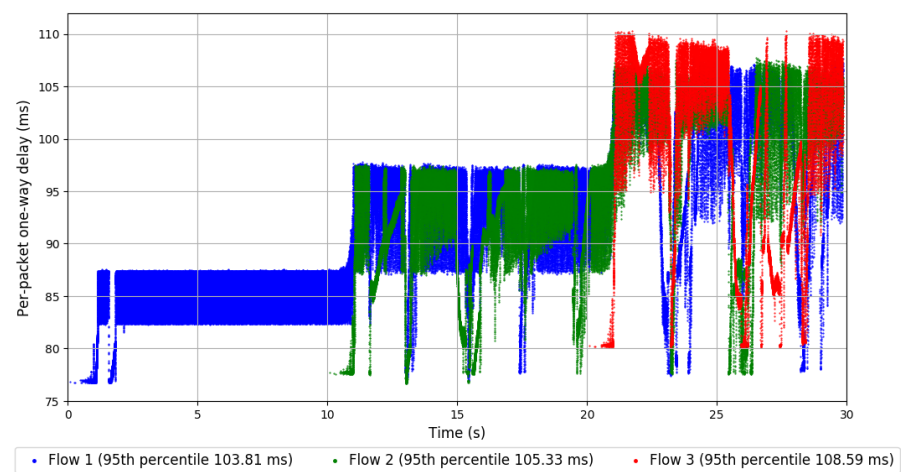
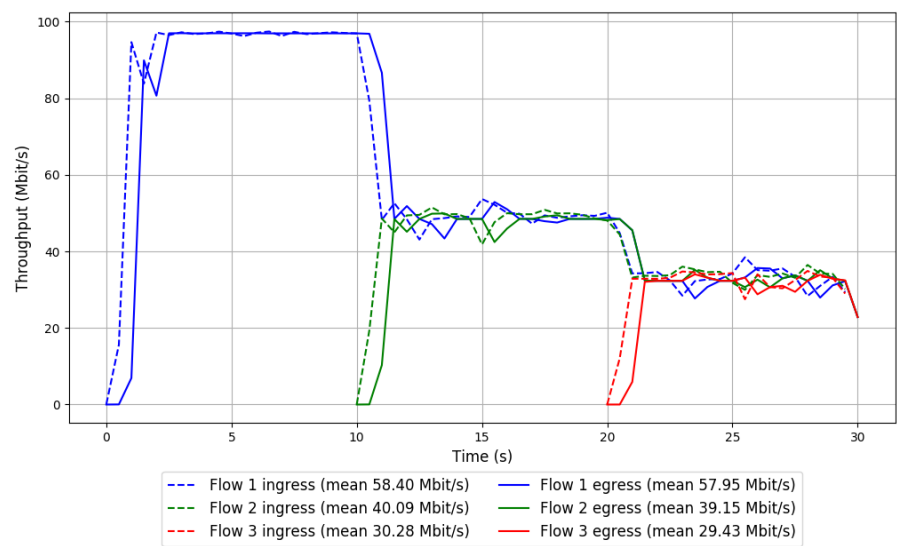


Run 2: Statistics of FillP

Start at: 2018-08-10 01:51:10
End at: 2018-08-10 01:51:40
Local clock offset: -3.712 ms
Remote clock offset: 6.238 ms

Below is generated by plot.py at 2018-08-10 04:58:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.58 Mbit/s
95th percentile per-packet one-way delay: 105.709 ms
Loss rate: 2.18%
-- Flow 1:
Average throughput: 57.95 Mbit/s
95th percentile per-packet one-way delay: 103.813 ms
Loss rate: 1.35%
-- Flow 2:
Average throughput: 39.15 Mbit/s
95th percentile per-packet one-way delay: 105.335 ms
Loss rate: 3.14%
-- Flow 3:
Average throughput: 29.43 Mbit/s
95th percentile per-packet one-way delay: 108.589 ms
Loss rate: 4.47%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-08-10 02:12:16

End at: 2018-08-10 02:12:46

Local clock offset: -2.871 ms

Remote clock offset: 4.541 ms

Below is generated by plot.py at 2018-08-10 04:58:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.24 Mbit/s

95th percentile per-packet one-way delay: 110.101 ms

Loss rate: 2.52%

-- Flow 1:

Average throughput: 57.62 Mbit/s

95th percentile per-packet one-way delay: 107.514 ms

Loss rate: 1.56%

-- Flow 2:

Average throughput: 38.98 Mbit/s

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

Loss rate: 3.50%

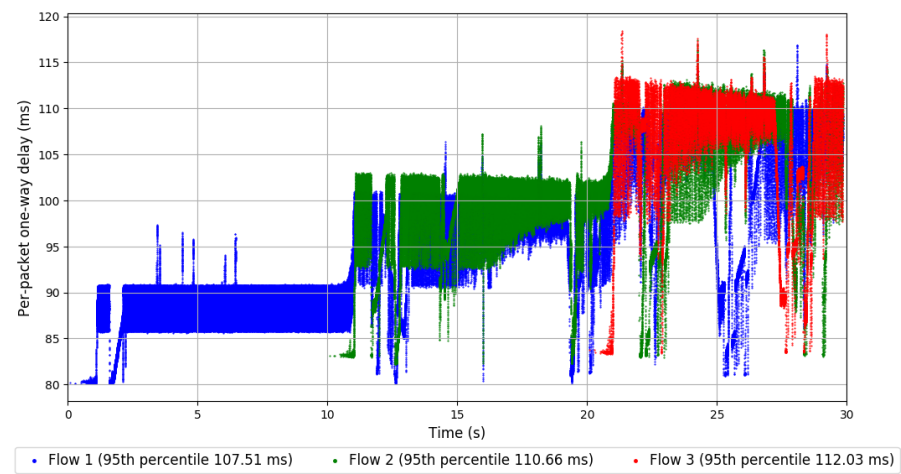
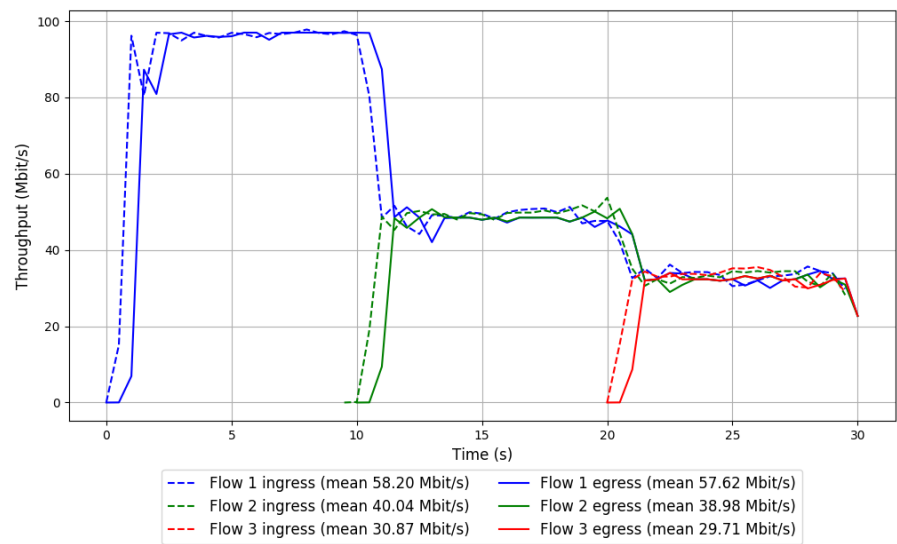
-- Flow 3:

Average throughput: 29.71 Mbit/s

95th percentile per-packet one-way delay: 112.035 ms

Loss rate: 5.47%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-08-10 02:33:22

End at: 2018-08-10 02:33:52

Local clock offset: -3.504 ms

Remote clock offset: 7.742 ms

Below is generated by plot.py at 2018-08-10 04:58:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.38 Mbit/s

95th percentile per-packet one-way delay: 107.992 ms

Loss rate: 2.36%

-- Flow 1:

Average throughput: 57.65 Mbit/s

95th percentile per-packet one-way delay: 106.953 ms

Loss rate: 1.52%

-- Flow 2:

Average throughput: 39.16 Mbit/s

95th percentile per-packet one-way delay: 109.019 ms

Loss rate: 3.12%

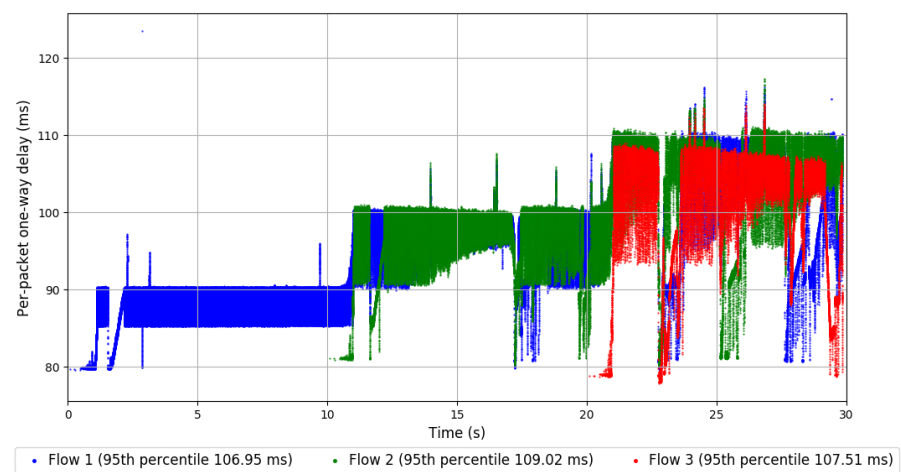
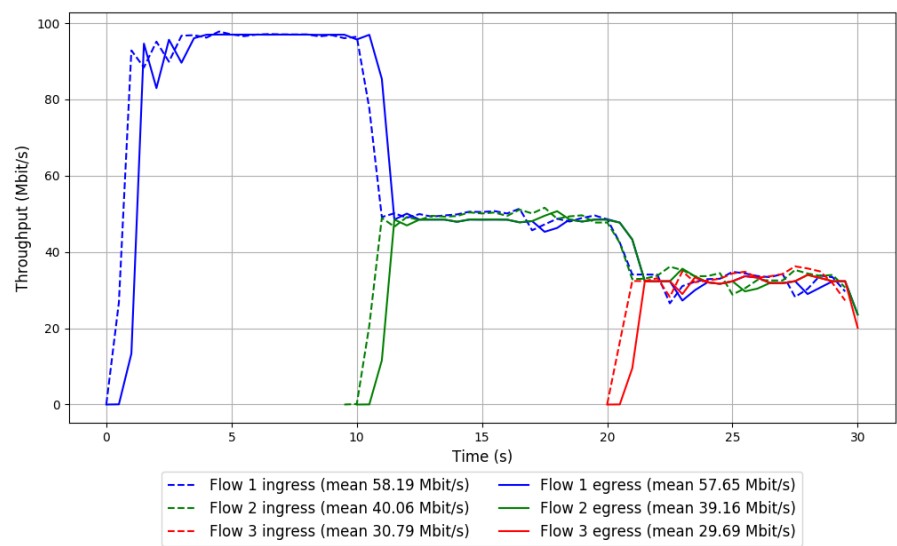
-- Flow 3:

Average throughput: 29.69 Mbit/s

95th percentile per-packet one-way delay: 107.506 ms

Loss rate: 5.16%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-08-10 02:54:24

End at: 2018-08-10 02:54:54

Local clock offset: -3.321 ms

Remote clock offset: 9.252 ms

Below is generated by plot.py at 2018-08-10 04:58:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.74 Mbit/s

95th percentile per-packet one-way delay: 106.439 ms

Loss rate: 2.52%

-- Flow 1:

Average throughput: 57.97 Mbit/s

95th percentile per-packet one-way delay: 104.329 ms

Loss rate: 1.89%

-- Flow 2:

Average throughput: 39.17 Mbit/s

95th percentile per-packet one-way delay: 108.342 ms

Loss rate: 2.81%

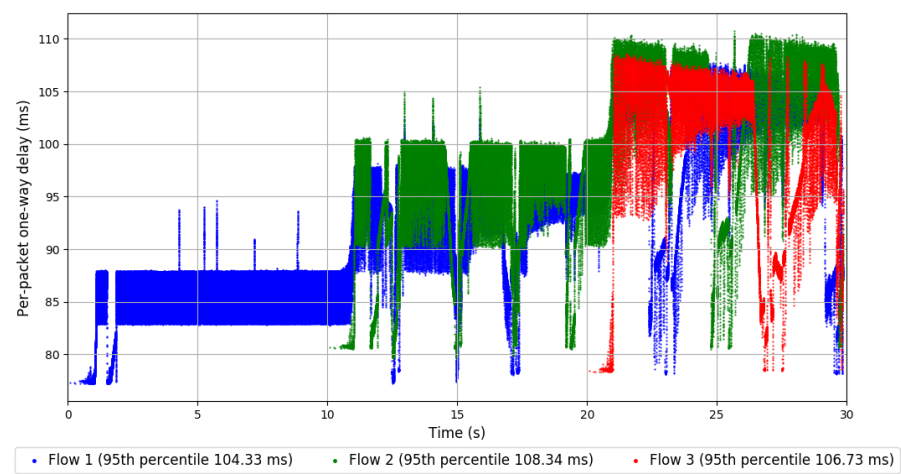
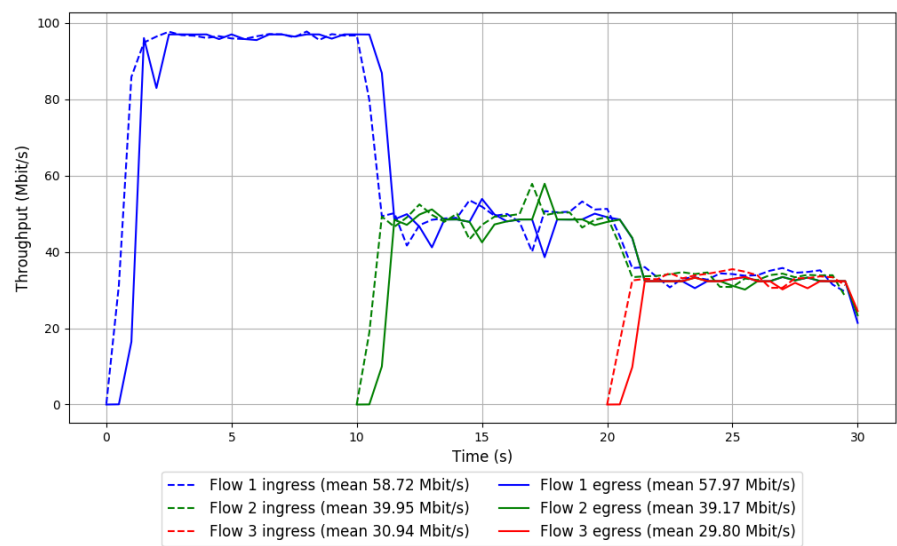
-- Flow 3:

Average throughput: 29.80 Mbit/s

95th percentile per-packet one-way delay: 106.728 ms

Loss rate: 5.36%

Run 5: Report of FillP — Data Link

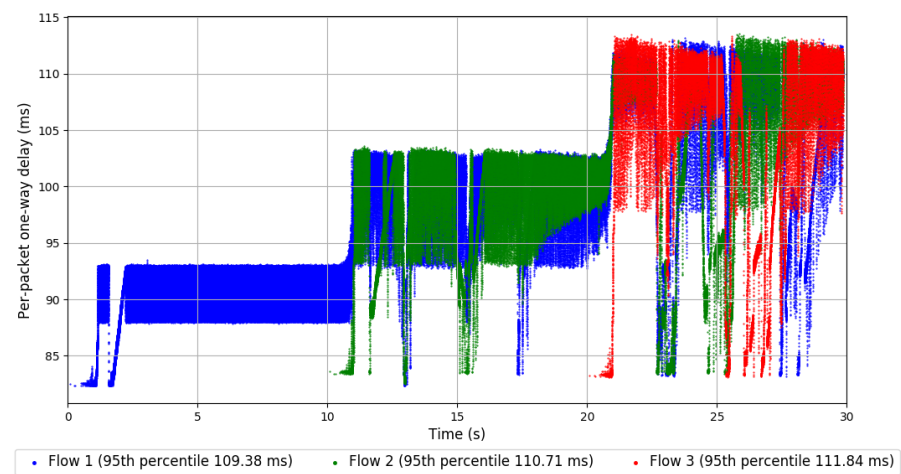
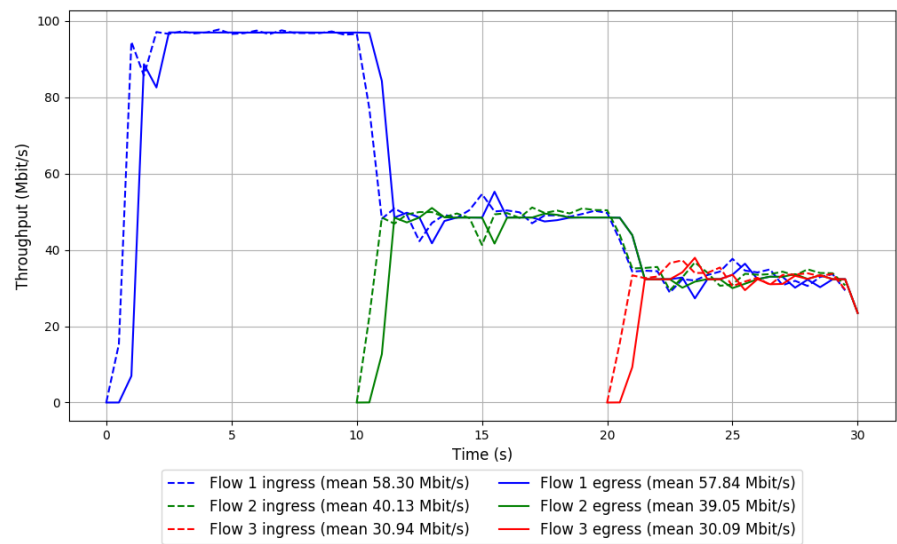


Run 6: Statistics of FillP

Start at: 2018-08-10 03:15:40
End at: 2018-08-10 03:16:10
Local clock offset: -3.179 ms
Remote clock offset: 3.52 ms

Below is generated by plot.py at 2018-08-10 04:58:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.62 Mbit/s
95th percentile per-packet one-way delay: 110.580 ms
Loss rate: 2.29%
-- Flow 1:
Average throughput: 57.84 Mbit/s
95th percentile per-packet one-way delay: 109.380 ms
Loss rate: 1.33%
-- Flow 2:
Average throughput: 39.05 Mbit/s
95th percentile per-packet one-way delay: 110.712 ms
Loss rate: 3.56%
-- Flow 3:
Average throughput: 30.09 Mbit/s
95th percentile per-packet one-way delay: 111.841 ms
Loss rate: 4.47%

Run 6: Report of FillP — Data Link

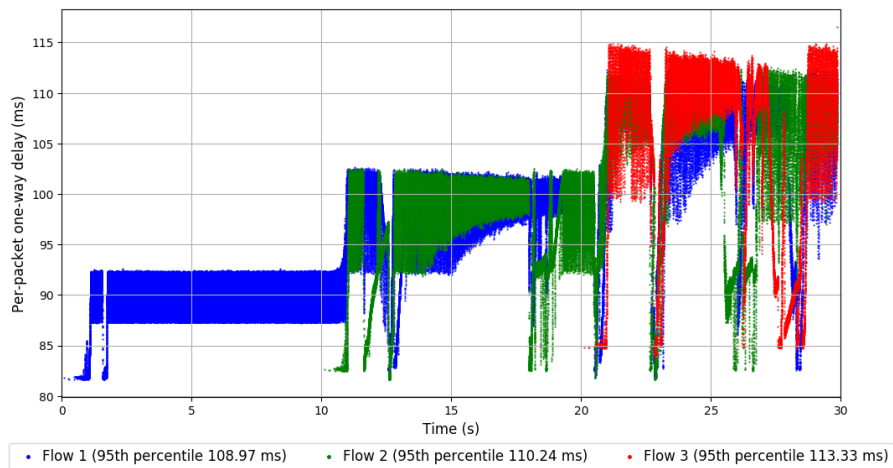
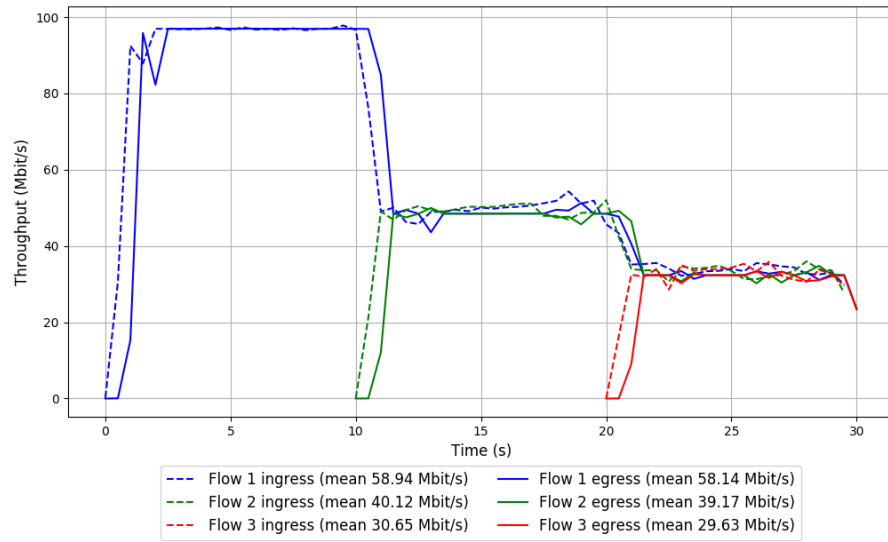


Run 7: Statistics of FillP

Start at: 2018-08-10 03:36:46
End at: 2018-08-10 03:37:16
Local clock offset: -4.216 ms
Remote clock offset: 4.14 ms

Below is generated by plot.py at 2018-08-10 04:58:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.84 Mbit/s
95th percentile per-packet one-way delay: 110.599 ms
Loss rate: 2.58%
-- Flow 1:
Average throughput: 58.14 Mbit/s
95th percentile per-packet one-way delay: 108.965 ms
Loss rate: 1.91%
-- Flow 2:
Average throughput: 39.17 Mbit/s
95th percentile per-packet one-way delay: 110.237 ms
Loss rate: 3.15%
-- Flow 3:
Average throughput: 29.63 Mbit/s
95th percentile per-packet one-way delay: 113.330 ms
Loss rate: 4.97%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-08-10 03:57:52

End at: 2018-08-10 03:58:22

Local clock offset: -4.065 ms

Remote clock offset: 1.961 ms

Below is generated by plot.py at 2018-08-10 04:59:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.80 Mbit/s

95th percentile per-packet one-way delay: 111.562 ms

Loss rate: 2.45%

-- Flow 1:

Average throughput: 58.02 Mbit/s

95th percentile per-packet one-way delay: 109.170 ms

Loss rate: 1.50%

-- Flow 2:

Average throughput: 39.25 Mbit/s

95th percentile per-packet one-way delay: 112.397 ms

Loss rate: 3.39%

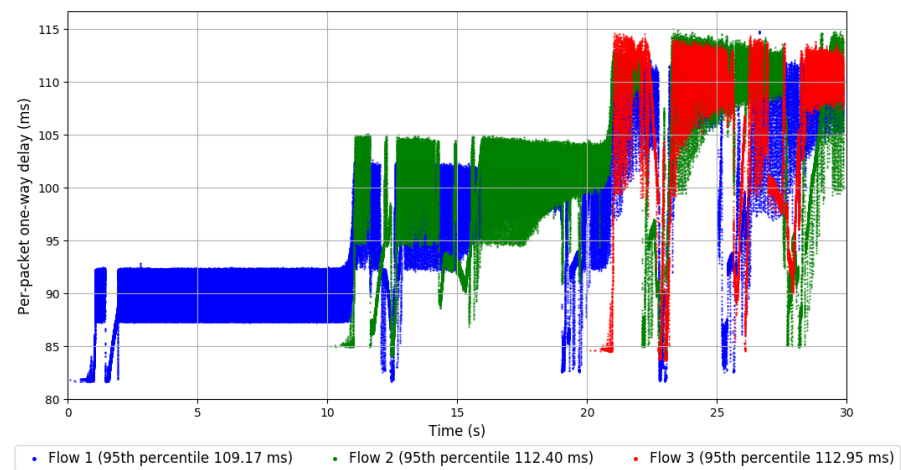
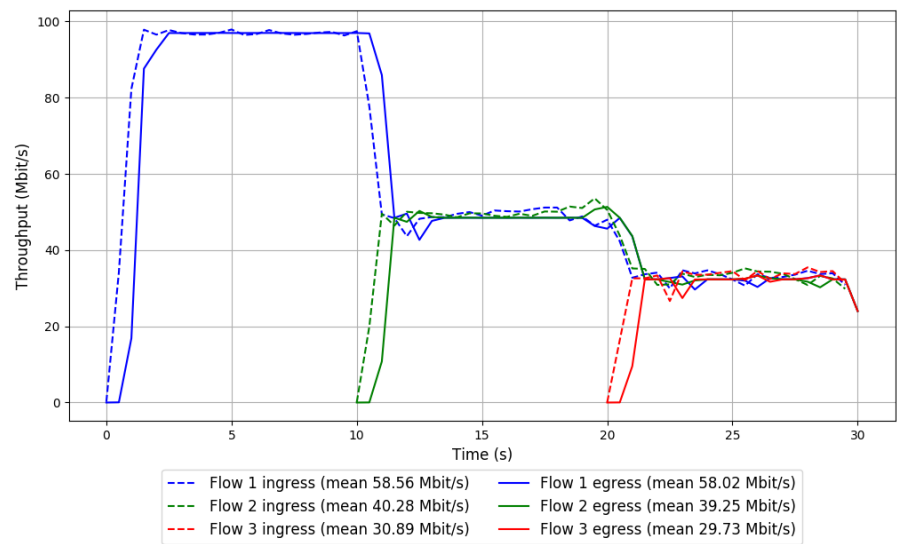
-- Flow 3:

Average throughput: 29.73 Mbit/s

95th percentile per-packet one-way delay: 112.952 ms

Loss rate: 5.46%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-08-10 04:19:03

End at: 2018-08-10 04:19:33

Local clock offset: -3.756 ms

Remote clock offset: 4.906 ms

Below is generated by plot.py at 2018-08-10 04:59:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.44 Mbit/s

95th percentile per-packet one-way delay: 101.964 ms

Loss rate: 15.67%

-- Flow 1:

Average throughput: 47.18 Mbit/s

95th percentile per-packet one-way delay: 97.220 ms

Loss rate: 15.17%

-- Flow 2:

Average throughput: 32.18 Mbit/s

95th percentile per-packet one-way delay: 104.748 ms

Loss rate: 16.09%

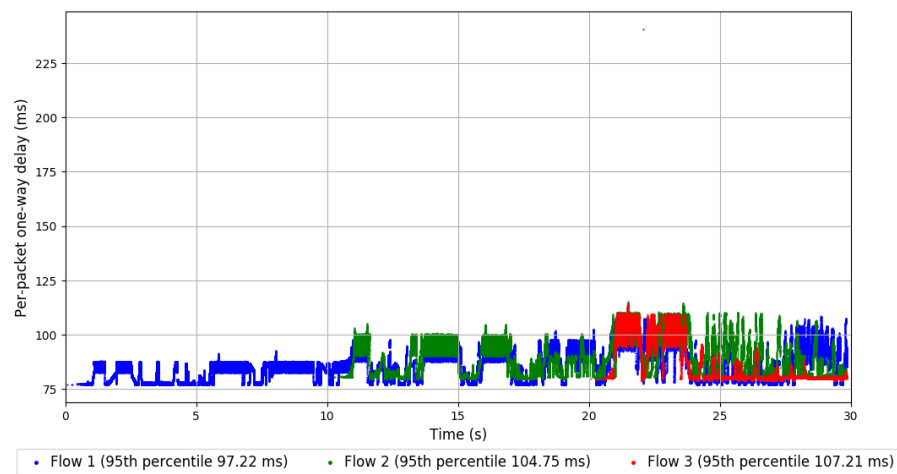
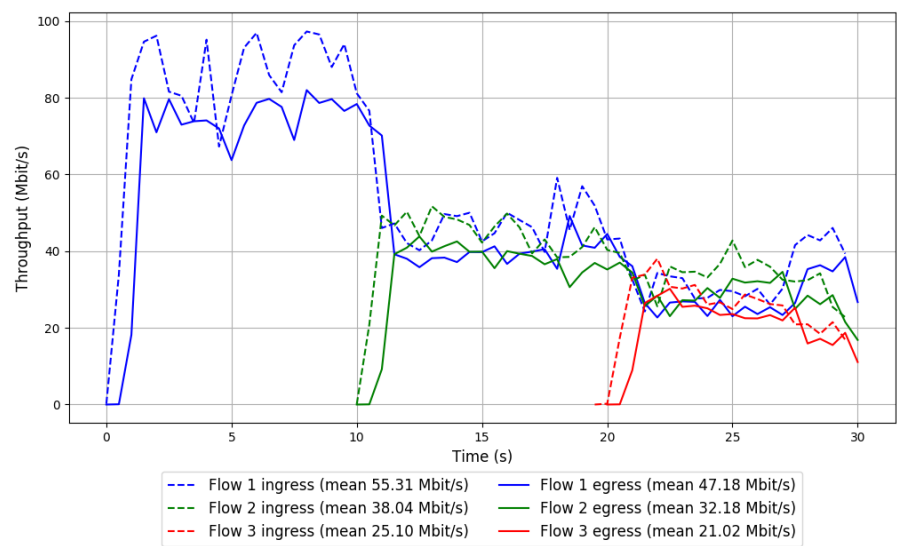
-- Flow 3:

Average throughput: 21.02 Mbit/s

95th percentile per-packet one-way delay: 107.214 ms

Loss rate: 17.64%

Run 9: Report of FillP — Data Link

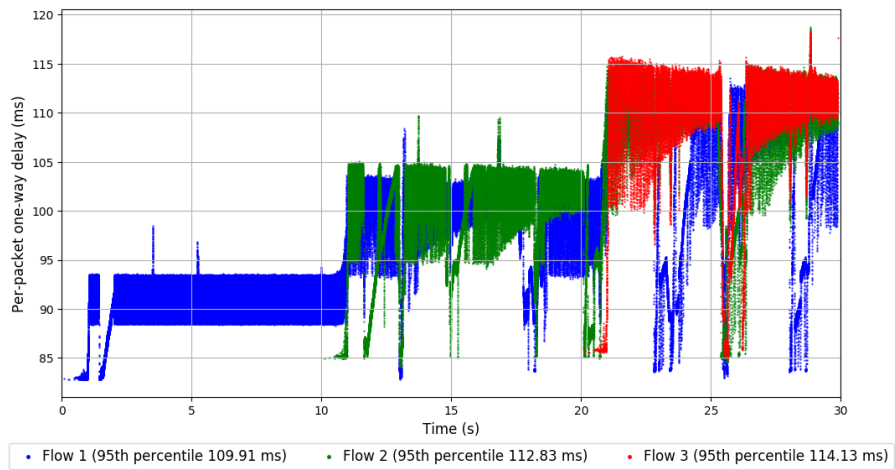
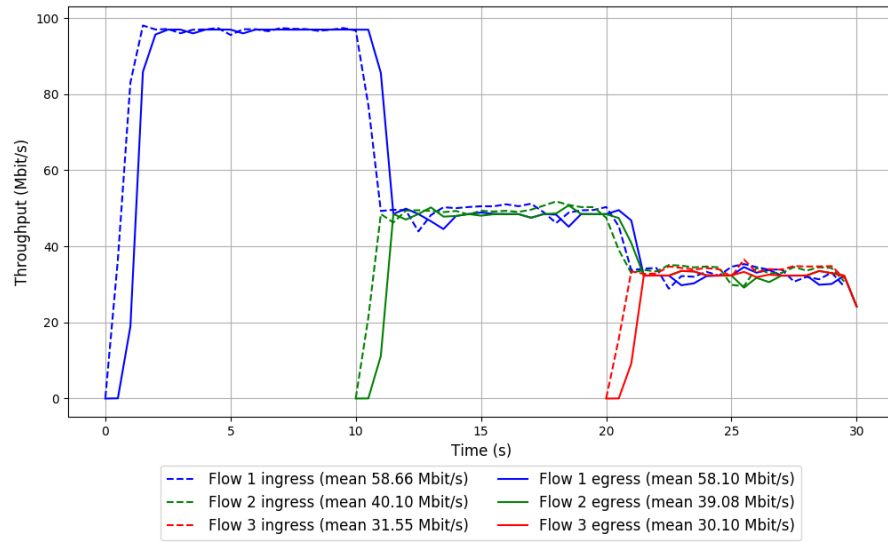


Run 10: Statistics of FillP

Start at: 2018-08-10 04:40:20
End at: 2018-08-10 04:40:50
Local clock offset: -3.028 ms
Remote clock offset: -1.938 ms

Below is generated by plot.py at 2018-08-10 04:59:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.88 Mbit/s
95th percentile per-packet one-way delay: 112.512 ms
Loss rate: 2.56%
-- Flow 1:
Average throughput: 58.10 Mbit/s
95th percentile per-packet one-way delay: 109.913 ms
Loss rate: 1.54%
-- Flow 2:
Average throughput: 39.08 Mbit/s
95th percentile per-packet one-way delay: 112.834 ms
Loss rate: 3.41%
-- Flow 3:
Average throughput: 30.10 Mbit/s
95th percentile per-packet one-way delay: 114.132 ms
Loss rate: 6.14%

Run 10: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2018-08-10 01:23:54

End at: 2018-08-10 01:24:24

Local clock offset: -3.648 ms

Remote clock offset: 2.615 ms

Below is generated by plot.py at 2018-08-10 04:59:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.36 Mbit/s

95th percentile per-packet one-way delay: 109.637 ms

Loss rate: 18.57%

-- Flow 1:

Average throughput: 49.22 Mbit/s

95th percentile per-packet one-way delay: 109.515 ms

Loss rate: 18.04%

-- Flow 2:

Average throughput: 31.30 Mbit/s

95th percentile per-packet one-way delay: 108.669 ms

Loss rate: 19.59%

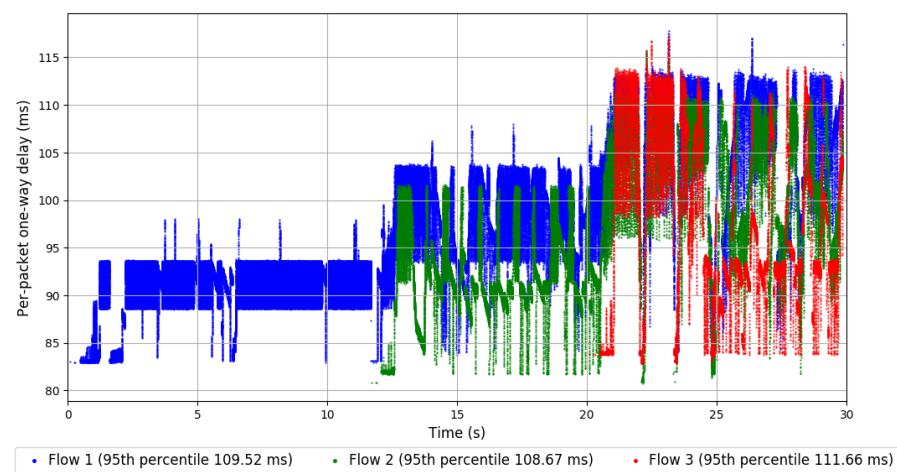
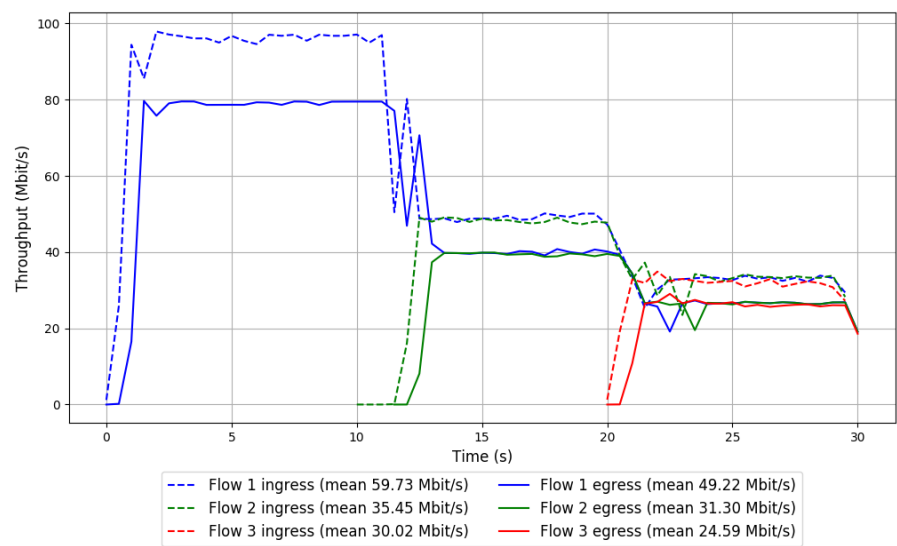
-- Flow 3:

Average throughput: 24.59 Mbit/s

95th percentile per-packet one-way delay: 111.660 ms

Loss rate: 19.39%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-08-10 01:45:03

End at: 2018-08-10 01:45:33

Local clock offset: -2.826 ms

Remote clock offset: 2.919 ms

Below is generated by plot.py at 2018-08-10 04:59:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.67 Mbit/s

95th percentile per-packet one-way delay: 108.392 ms

Loss rate: 1.31%

-- Flow 1:

Average throughput: 57.77 Mbit/s

95th percentile per-packet one-way delay: 107.215 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 39.09 Mbit/s

95th percentile per-packet one-way delay: 109.756 ms

Loss rate: 1.51%

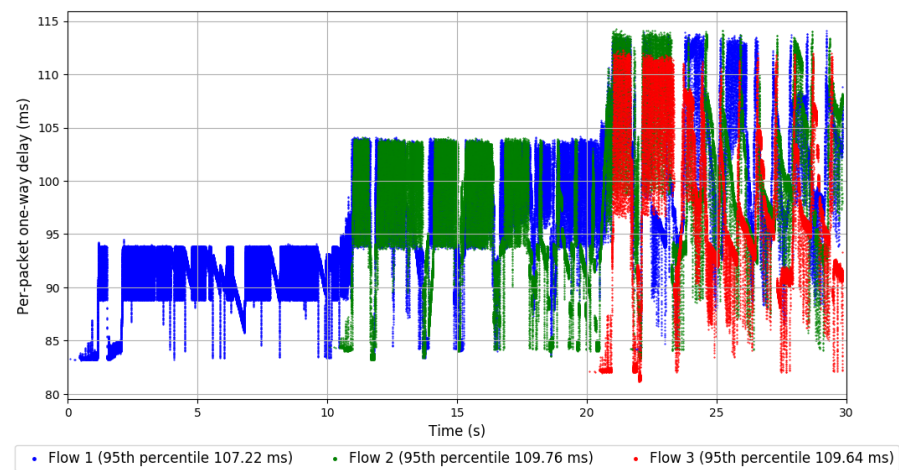
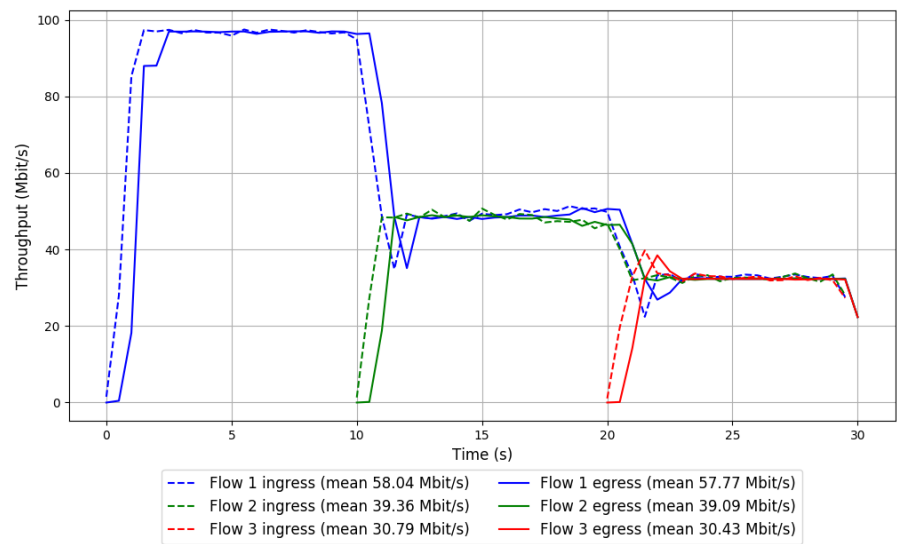
-- Flow 3:

Average throughput: 30.43 Mbit/s

95th percentile per-packet one-way delay: 109.635 ms

Loss rate: 2.74%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2018-08-10 02:06:08

End at: 2018-08-10 02:06:38

Local clock offset: -2.113 ms

Remote clock offset: 2.06 ms

Below is generated by plot.py at 2018-08-10 05:00:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.71 Mbit/s

95th percentile per-packet one-way delay: 109.899 ms

Loss rate: 1.32%

-- Flow 1:

Average throughput: 56.76 Mbit/s

95th percentile per-packet one-way delay: 105.242 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 37.86 Mbit/s

95th percentile per-packet one-way delay: 110.751 ms

Loss rate: 2.11%

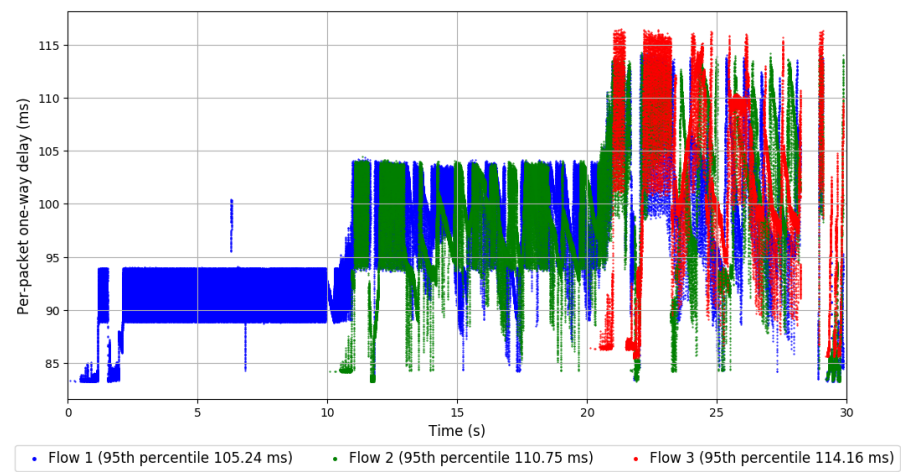
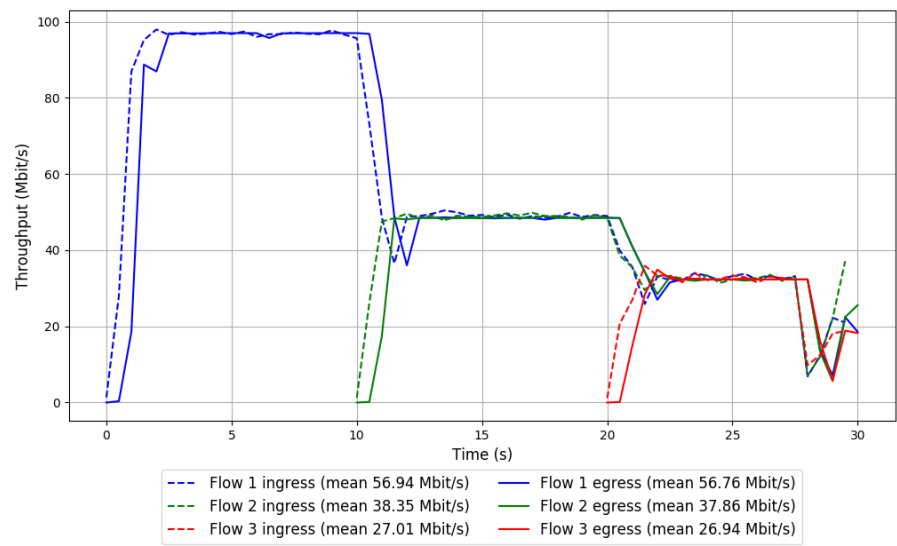
-- Flow 3:

Average throughput: 26.94 Mbit/s

95th percentile per-packet one-way delay: 114.162 ms

Loss rate: 1.96%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2018-08-10 02:27:10

End at: 2018-08-10 02:27:40

Local clock offset: -4.196 ms

Remote clock offset: 7.091 ms

Below is generated by plot.py at 2018-08-10 05:00:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.63 Mbit/s

95th percentile per-packet one-way delay: 104.978 ms

Loss rate: 1.41%

-- Flow 1:

Average throughput: 56.29 Mbit/s

95th percentile per-packet one-way delay: 103.271 ms

Loss rate: 1.08%

-- Flow 2:

Average throughput: 37.66 Mbit/s

95th percentile per-packet one-way delay: 104.634 ms

Loss rate: 1.69%

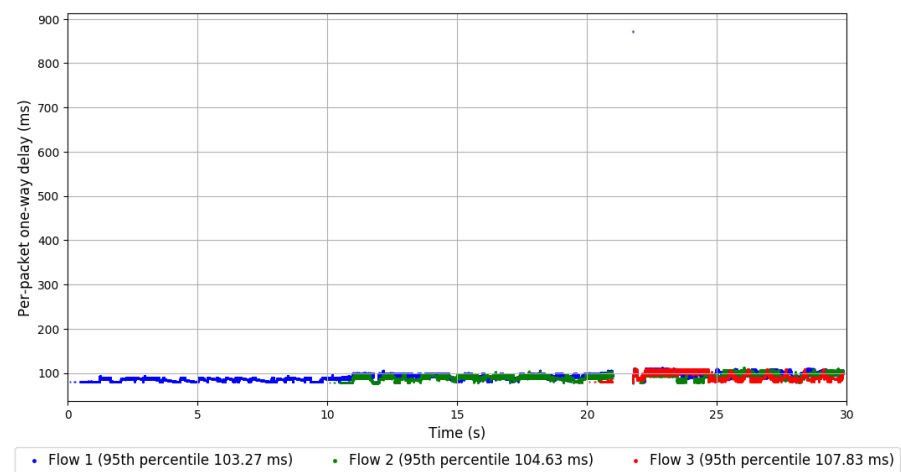
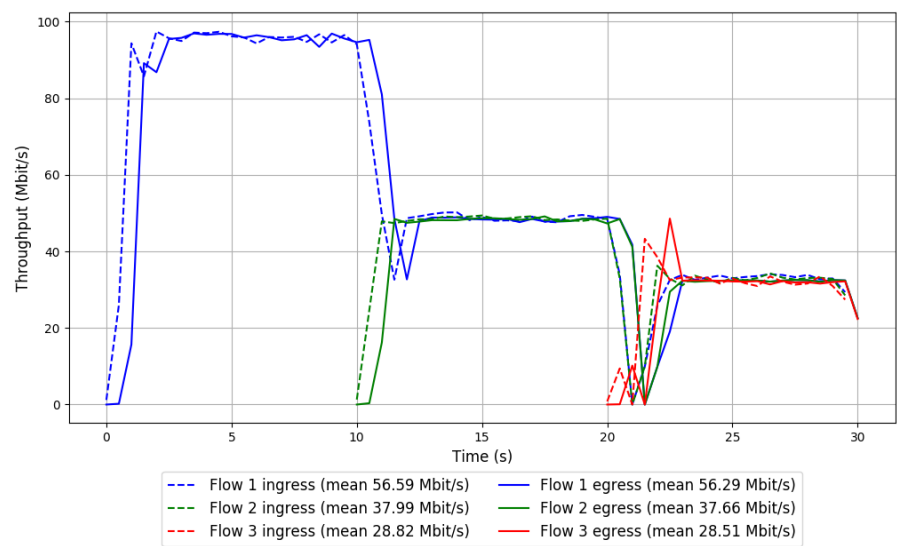
-- Flow 3:

Average throughput: 28.51 Mbit/s

95th percentile per-packet one-way delay: 107.831 ms

Loss rate: 2.63%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2018-08-10 02:48:17

End at: 2018-08-10 02:48:47

Local clock offset: -4.29 ms

Remote clock offset: 5.127 ms

Below is generated by plot.py at 2018-08-10 05:00:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.63 Mbit/s

95th percentile per-packet one-way delay: 109.813 ms

Loss rate: 1.48%

-- Flow 1:

Average throughput: 57.98 Mbit/s

95th percentile per-packet one-way delay: 108.887 ms

Loss rate: 1.09%

-- Flow 2:

Average throughput: 38.96 Mbit/s

95th percentile per-packet one-way delay: 109.622 ms

Loss rate: 1.66%

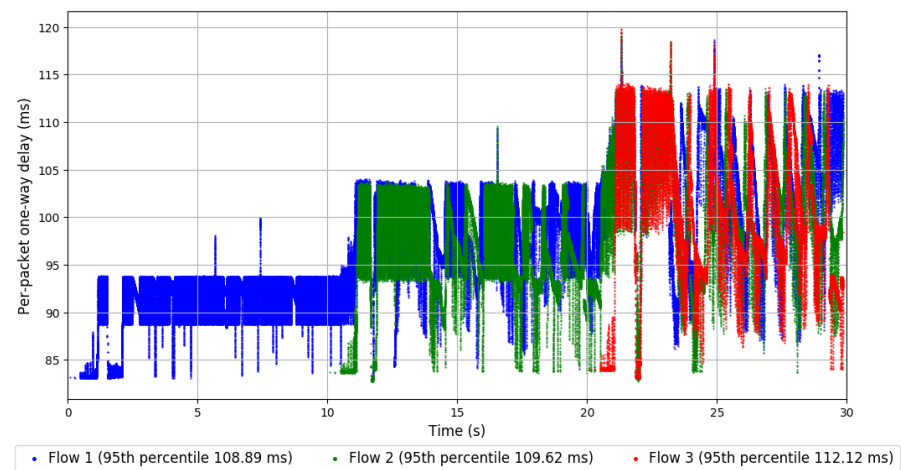
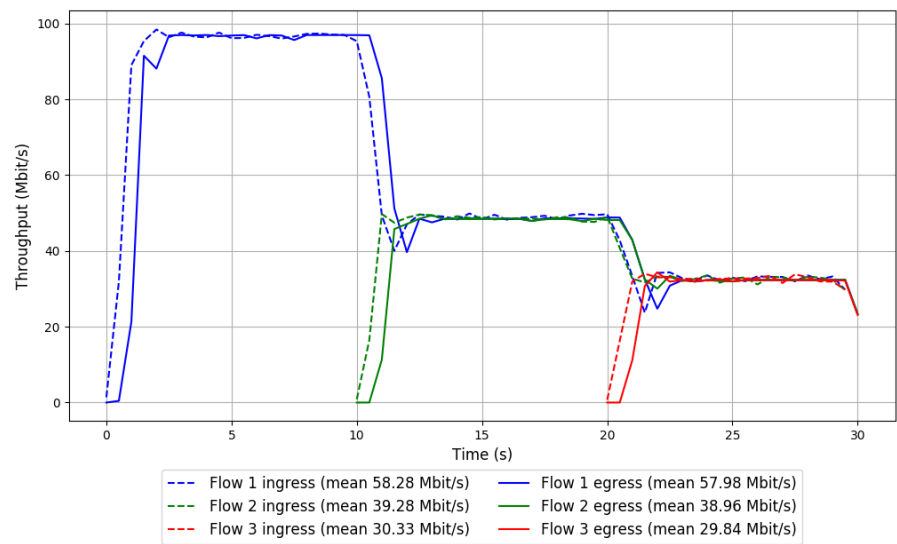
-- Flow 3:

Average throughput: 29.84 Mbit/s

95th percentile per-packet one-way delay: 112.123 ms

Loss rate: 3.29%

Run 5: Report of FillP-Sheep — Data Link



Run 6: Statistics of FillP-Sheep

Start at: 2018-08-10 03:09:29

End at: 2018-08-10 03:09:59

Local clock offset: -3.959 ms

Remote clock offset: 5.052 ms

Below is generated by plot.py at 2018-08-10 05:00:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.34 Mbit/s

95th percentile per-packet one-way delay: 109.197 ms

Loss rate: 1.34%

-- Flow 1:

Average throughput: 57.09 Mbit/s

95th percentile per-packet one-way delay: 105.724 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 39.45 Mbit/s

95th percentile per-packet one-way delay: 111.027 ms

Loss rate: 2.27%

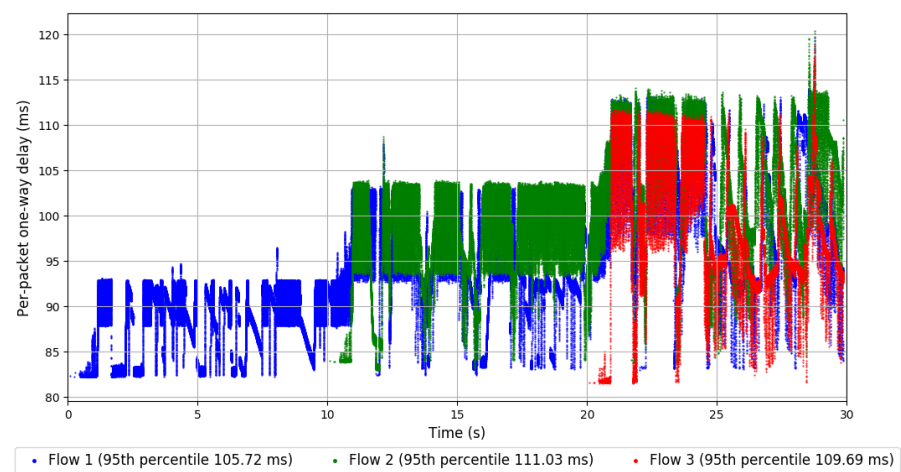
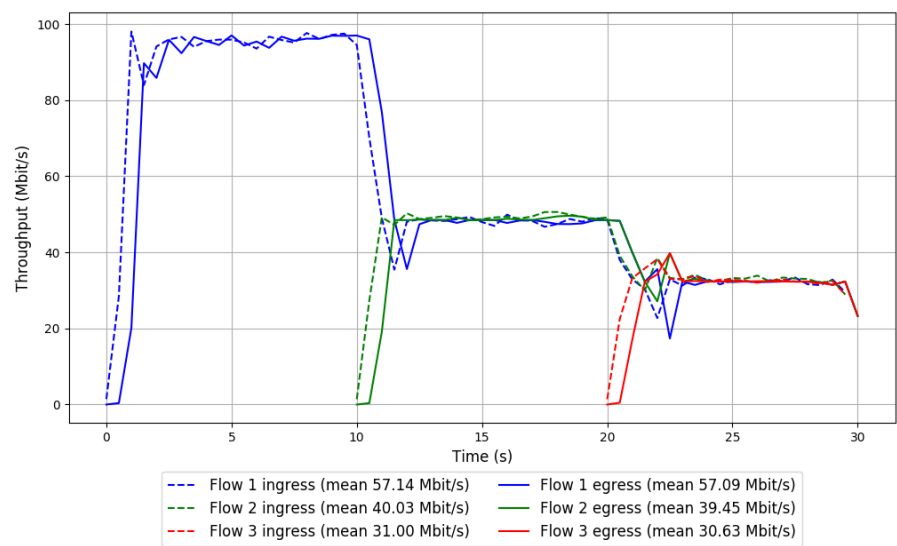
-- Flow 3:

Average throughput: 30.63 Mbit/s

95th percentile per-packet one-way delay: 109.695 ms

Loss rate: 2.80%

Run 6: Report of FillP-Sheep — Data Link



Run 7: Statistics of FillP-Sheep

Start at: 2018-08-10 03:30:32

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

Local clock offset: -3.231 ms

Remote clock offset: 8.982 ms

Below is generated by plot.py at 2018-08-10 05:00:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.78 Mbit/s

95th percentile per-packet one-way delay: 105.474 ms

Loss rate: 1.71%

-- Flow 1:

Average throughput: 57.92 Mbit/s

95th percentile per-packet one-way delay: 104.065 ms

Loss rate: 1.49%

-- Flow 2:

Average throughput: 39.45 Mbit/s

95th percentile per-packet one-way delay: 107.343 ms

Loss rate: 2.05%

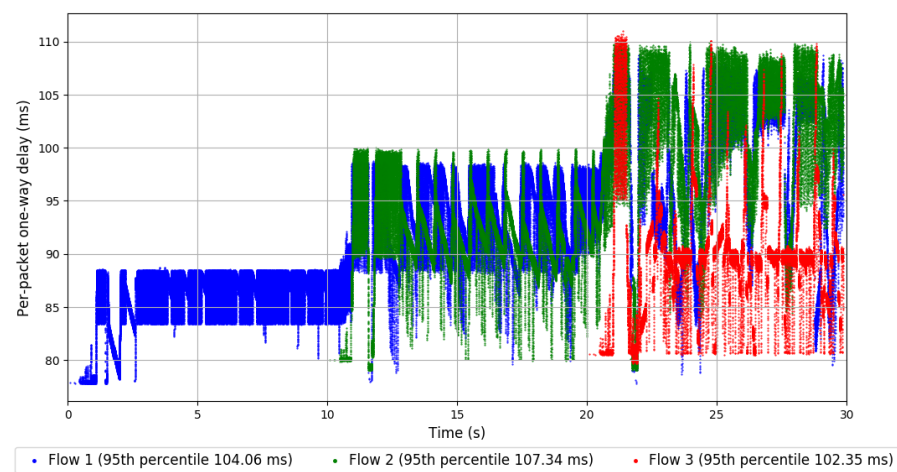
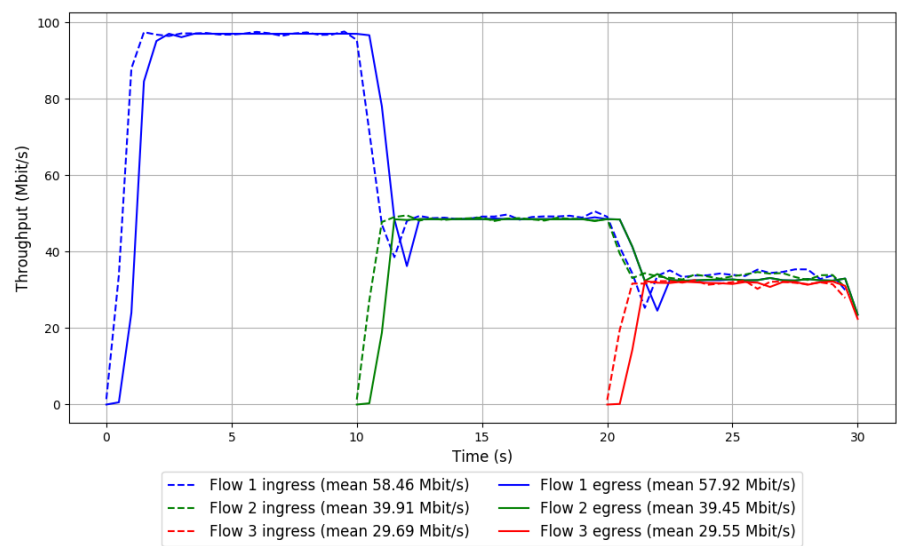
-- Flow 3:

Average throughput: 29.55 Mbit/s

95th percentile per-packet one-way delay: 102.353 ms

Loss rate: 2.07%

Run 7: Report of FillP-Sheep — Data Link



Run 8: Statistics of FillP-Sheep

Start at: 2018-08-10 03:51:38

End at: 2018-08-10 03:52:08

Local clock offset: -3.64 ms

Remote clock offset: 2.09 ms

Below is generated by plot.py at 2018-08-10 05:00:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.52 Mbit/s

95th percentile per-packet one-way delay: 108.010 ms

Loss rate: 16.40%

-- Flow 1:

Average throughput: 50.08 Mbit/s

95th percentile per-packet one-way delay: 105.619 ms

Loss rate: 14.51%

-- Flow 2:

Average throughput: 32.57 Mbit/s

95th percentile per-packet one-way delay: 109.896 ms

Loss rate: 19.22%

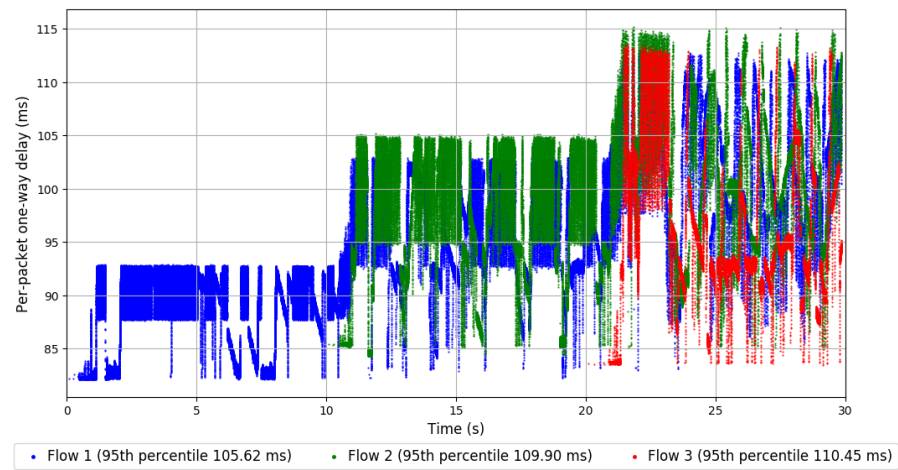
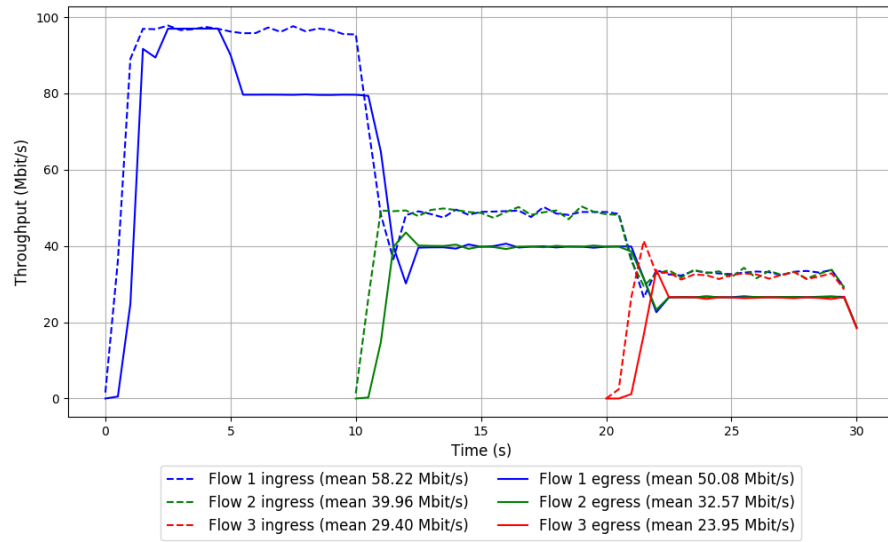
-- Flow 3:

Average throughput: 23.95 Mbit/s

95th percentile per-packet one-way delay: 110.447 ms

Loss rate: 19.98%

Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

Start at: 2018-08-10 04:12:51

End at: 2018-08-10 04:13:21

Local clock offset: -2.962 ms

Remote clock offset: 1.734 ms

Below is generated by plot.py at 2018-08-10 05:01:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.61 Mbit/s

95th percentile per-packet one-way delay: 109.023 ms

Loss rate: 1.53%

-- Flow 1:

Average throughput: 57.59 Mbit/s

95th percentile per-packet one-way delay: 106.336 ms

Loss rate: 1.25%

-- Flow 2:

Average throughput: 39.18 Mbit/s

95th percentile per-packet one-way delay: 111.719 ms

Loss rate: 1.82%

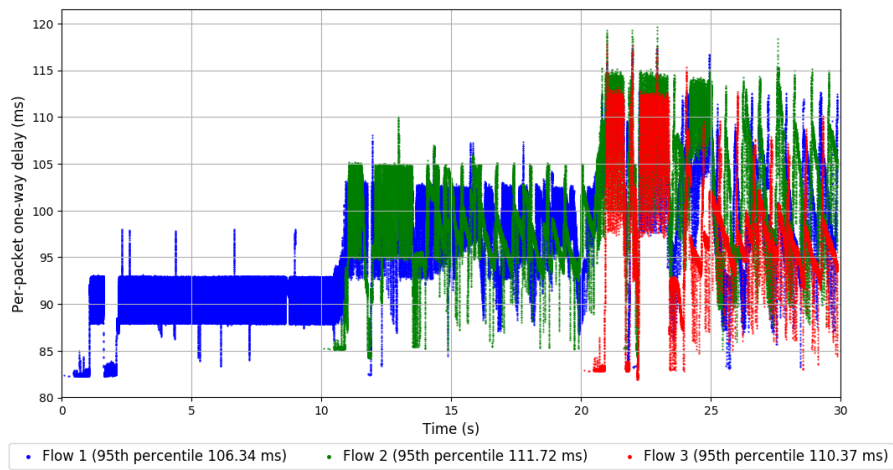
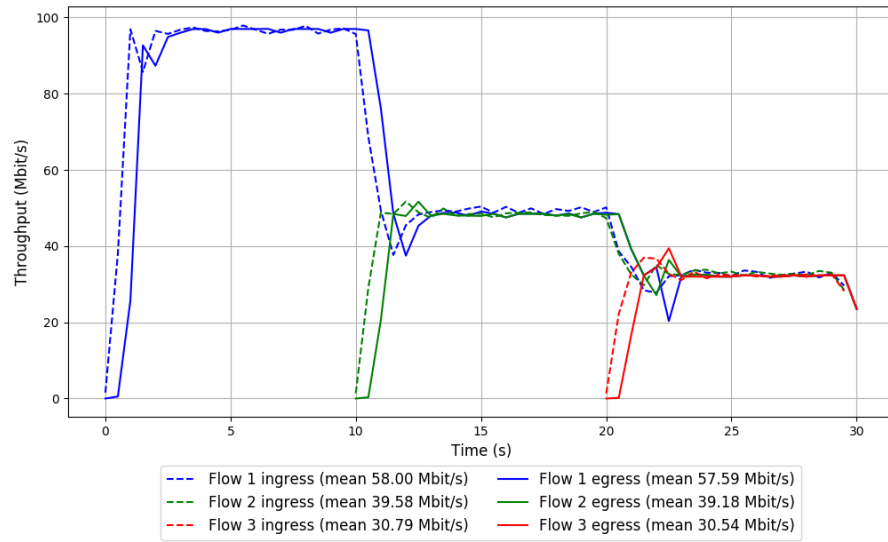
-- Flow 3:

Average throughput: 30.54 Mbit/s

95th percentile per-packet one-way delay: 110.366 ms

Loss rate: 2.35%

Run 9: Report of FillP-Sheep — Data Link



Run 10: Statistics of FillP-Sheep

Start at: 2018-08-10 04:33:57

End at: 2018-08-10 04:34:27

Local clock offset: -3.82 ms

Remote clock offset: 3.31 ms

Below is generated by plot.py at 2018-08-10 05:01:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.30 Mbit/s

95th percentile per-packet one-way delay: 104.321 ms

Loss rate: 1.36%

-- Flow 1:

Average throughput: 57.51 Mbit/s

95th percentile per-packet one-way delay: 101.215 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 38.86 Mbit/s

95th percentile per-packet one-way delay: 106.953 ms

Loss rate: 1.71%

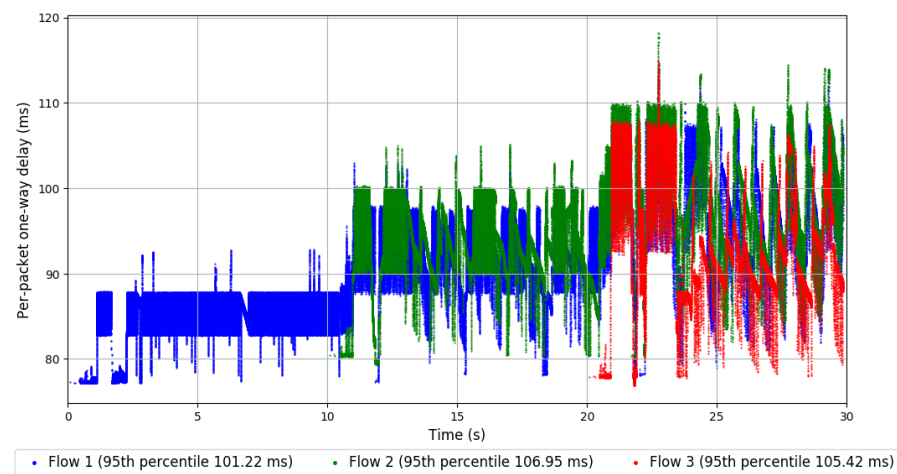
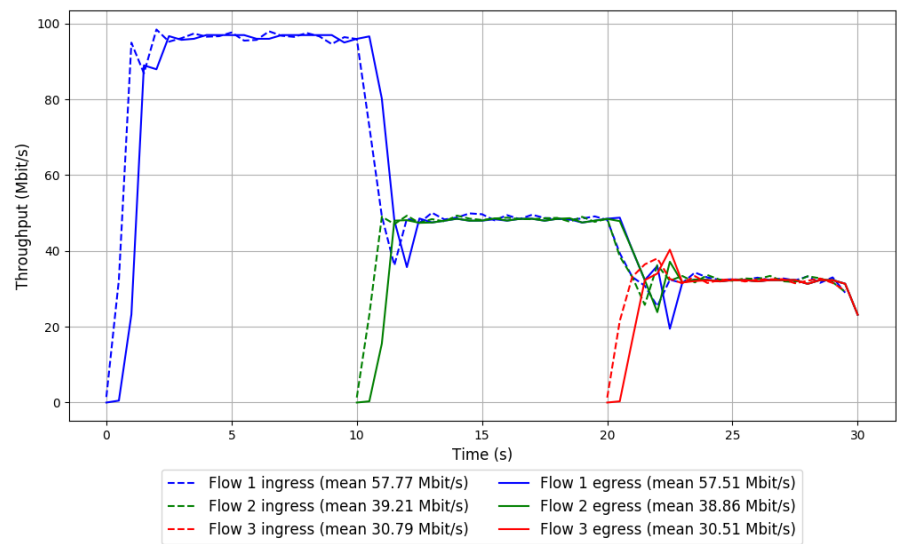
-- Flow 3:

Average throughput: 30.51 Mbit/s

95th percentile per-packet one-way delay: 105.416 ms

Loss rate: 2.57%

Run 10: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2018-08-10 01:37:26

End at: 2018-08-10 01:37:56

Local clock offset: -2.862 ms

Remote clock offset: 6.26 ms

Below is generated by plot.py at 2018-08-10 05:01:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.81 Mbit/s

95th percentile per-packet one-way delay: 112.596 ms

Loss rate: 1.97%

-- Flow 1:

Average throughput: 61.31 Mbit/s

95th percentile per-packet one-way delay: 112.930 ms

Loss rate: 2.27%

-- Flow 2:

Average throughput: 32.91 Mbit/s

95th percentile per-packet one-way delay: 98.807 ms

Loss rate: 0.79%

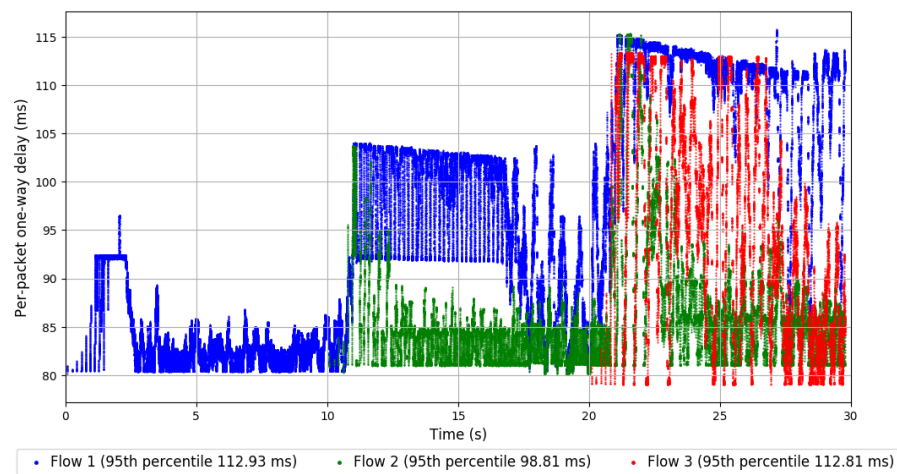
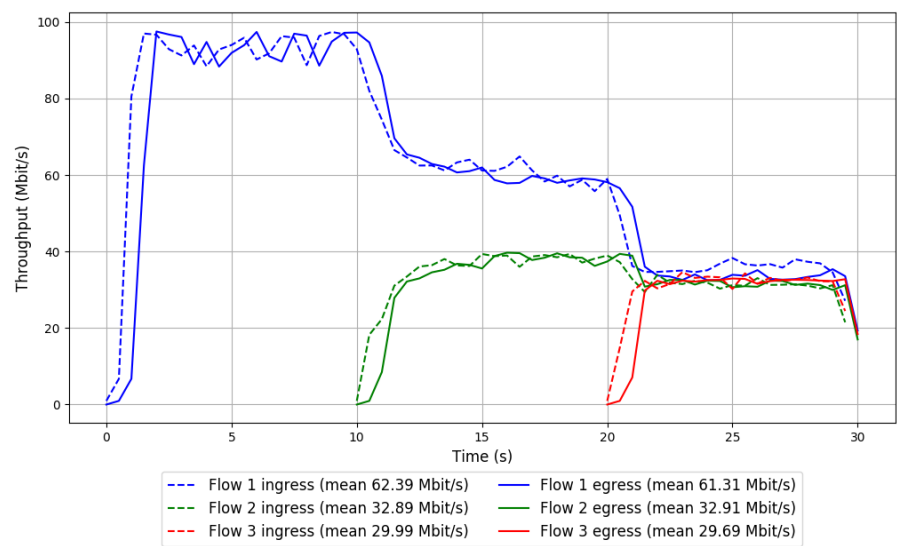
-- Flow 3:

Average throughput: 29.69 Mbit/s

95th percentile per-packet one-way delay: 112.814 ms

Loss rate: 2.67%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-08-10 01:58:38

End at: 2018-08-10 01:59:08

Local clock offset: -2.877 ms

Remote clock offset: 2.012 ms

Below is generated by plot.py at 2018-08-10 05:01:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.46 Mbit/s

95th percentile per-packet one-way delay: 113.527 ms

Loss rate: 3.55%

-- Flow 1:

Average throughput: 62.85 Mbit/s

95th percentile per-packet one-way delay: 113.923 ms

Loss rate: 4.62%

-- Flow 2:

Average throughput: 30.76 Mbit/s

95th percentile per-packet one-way delay: 98.168 ms

Loss rate: 0.82%

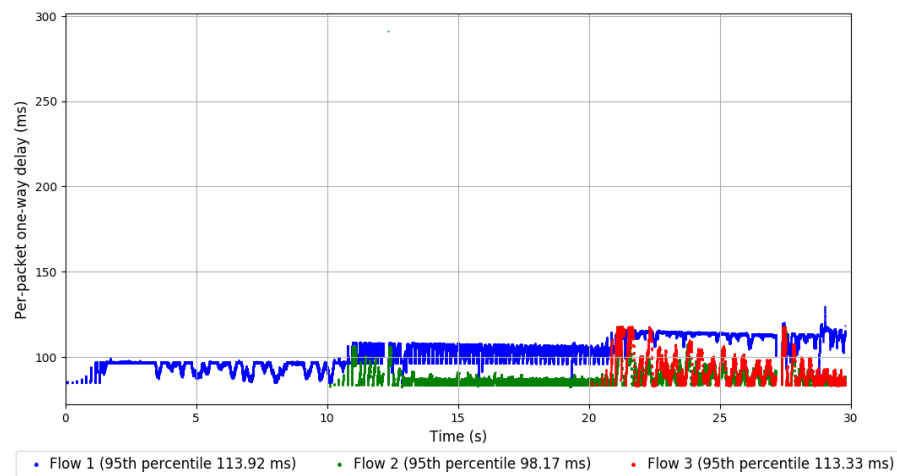
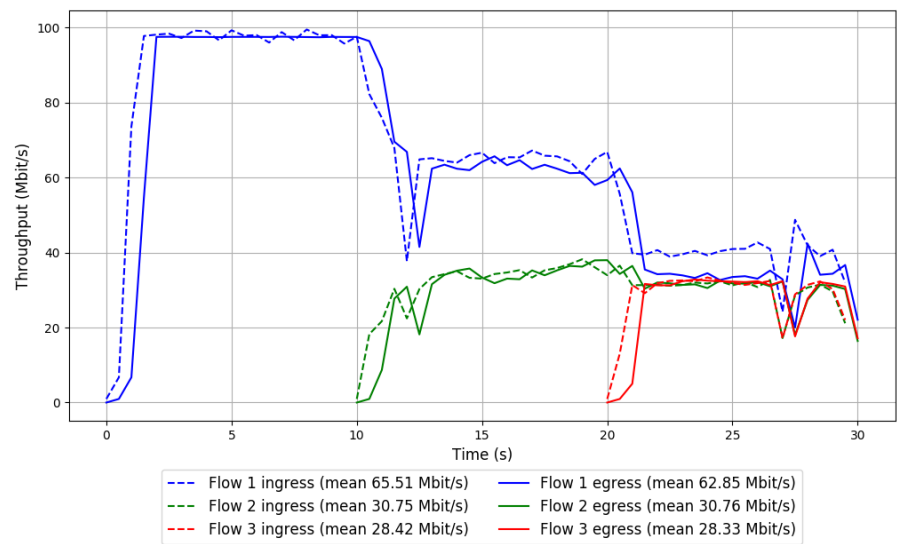
-- Flow 3:

Average throughput: 28.33 Mbit/s

95th percentile per-packet one-way delay: 113.331 ms

Loss rate: 2.03%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-08-10 02:19:39

End at: 2018-08-10 02:20:09

Local clock offset: -3.933 ms

Remote clock offset: 3.211 ms

Below is generated by plot.py at 2018-08-10 05:01:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.12 Mbit/s

95th percentile per-packet one-way delay: 103.872 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 55.82 Mbit/s

95th percentile per-packet one-way delay: 104.320 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 29.84 Mbit/s

95th percentile per-packet one-way delay: 97.238 ms

Loss rate: 0.71%

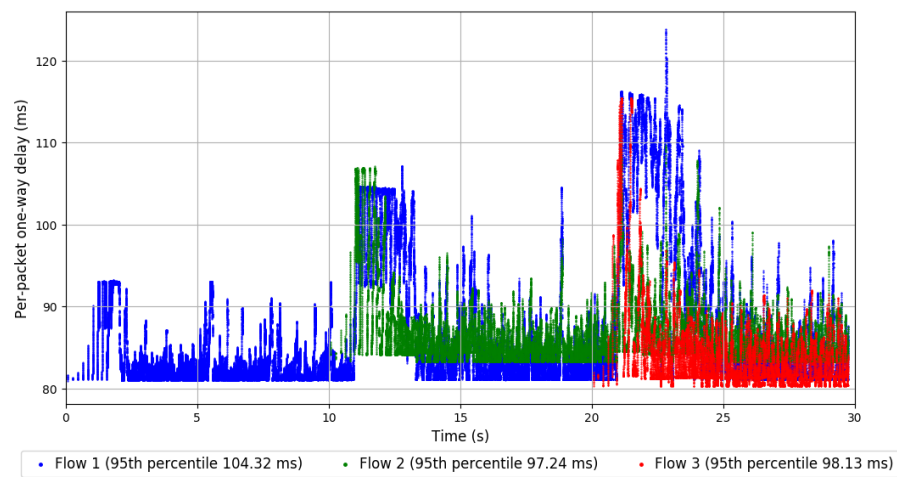
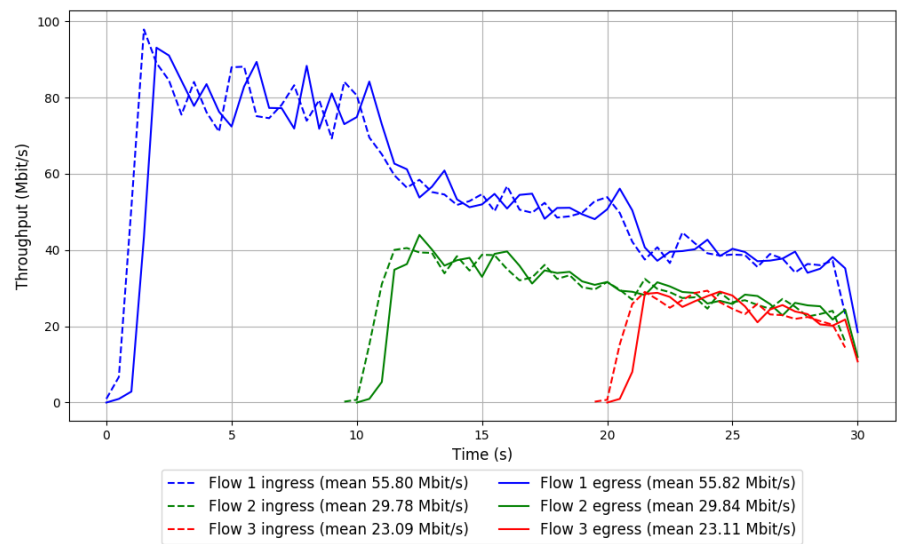
-- Flow 3:

Average throughput: 23.11 Mbit/s

95th percentile per-packet one-way delay: 98.134 ms

Loss rate: 1.62%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-08-10 02:40:47

End at: 2018-08-10 02:41:17

Local clock offset: -2.815 ms

Remote clock offset: 4.751 ms

Below is generated by plot.py at 2018-08-10 05:01:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 71.17 Mbit/s

95th percentile per-packet one-way delay: 112.430 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 41.85 Mbit/s

95th percentile per-packet one-way delay: 100.412 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 27.60 Mbit/s

95th percentile per-packet one-way delay: 92.241 ms

Loss rate: 0.71%

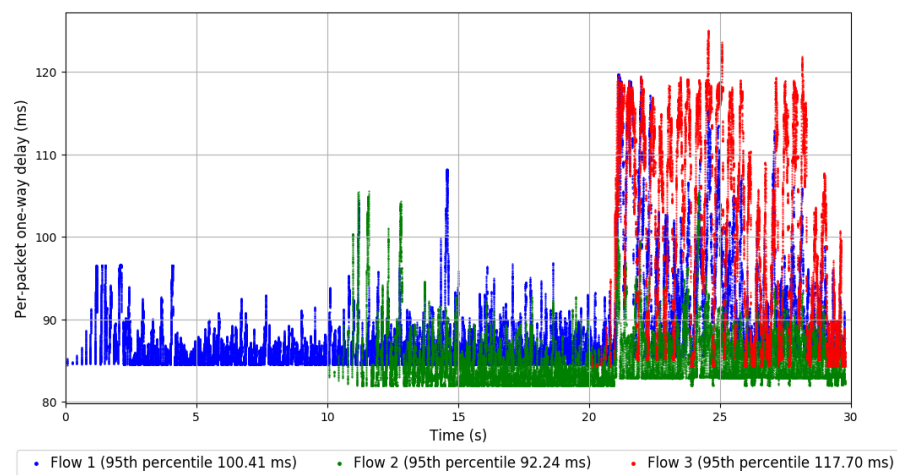
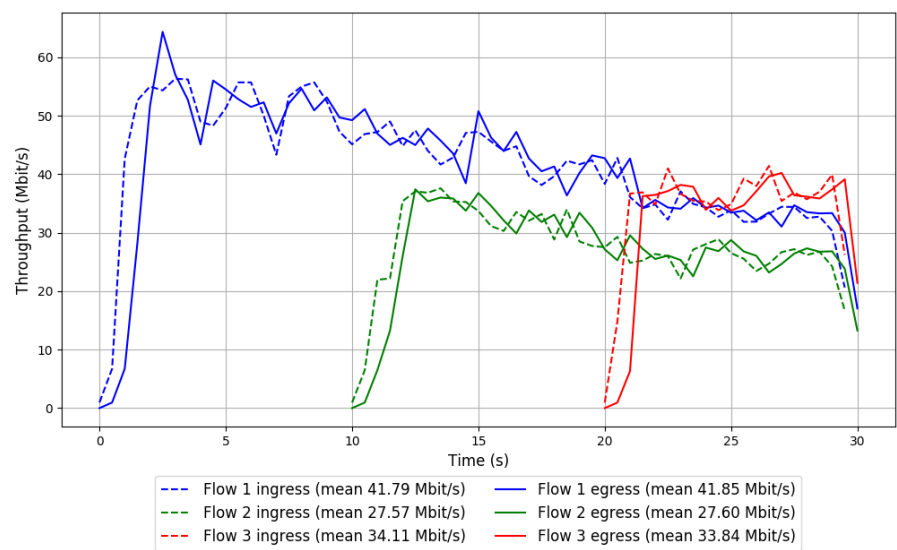
-- Flow 3:

Average throughput: 33.84 Mbit/s

95th percentile per-packet one-way delay: 117.703 ms

Loss rate: 2.43%

Run 4: Report of Indigo — Data Link

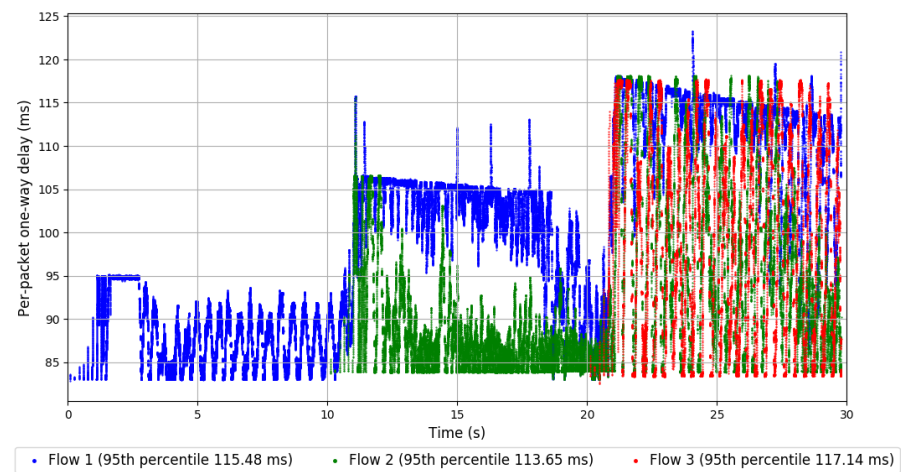
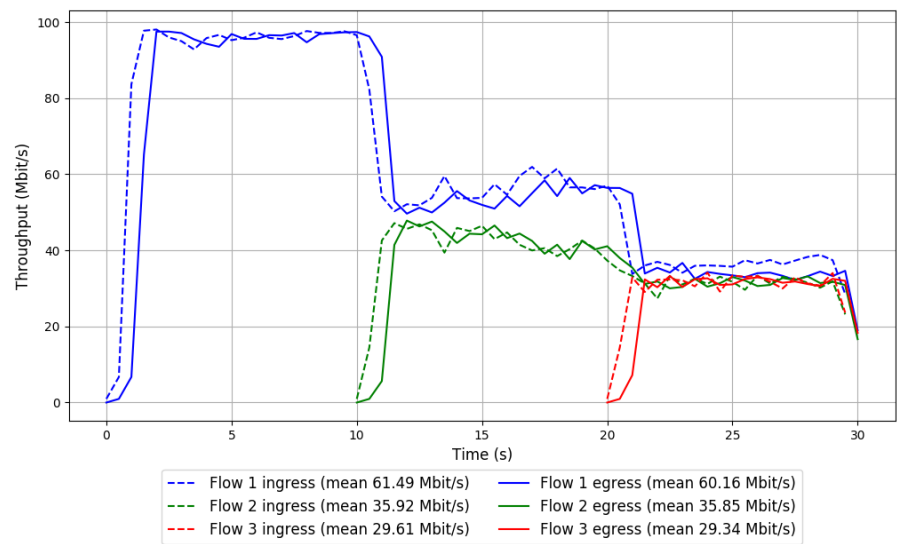


Run 5: Statistics of Indigo

Start at: 2018-08-10 03:01:51
End at: 2018-08-10 03:02:21
Local clock offset: -4.049 ms
Remote clock offset: 5.772 ms

Below is generated by plot.py at 2018-08-10 05:01:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.45 Mbit/s
95th percentile per-packet one-way delay: 115.718 ms
Loss rate: 2.25%
-- Flow 1:
Average throughput: 60.16 Mbit/s
95th percentile per-packet one-way delay: 115.479 ms
Loss rate: 2.70%
-- Flow 2:
Average throughput: 35.85 Mbit/s
95th percentile per-packet one-way delay: 113.646 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 29.34 Mbit/s
95th percentile per-packet one-way delay: 117.140 ms
Loss rate: 2.53%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-08-10 03:23:02

End at: 2018-08-10 03:23:32

Local clock offset: -4.48 ms

Remote clock offset: 3.166 ms

Below is generated by plot.py at 2018-08-10 05:01:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.03 Mbit/s

95th percentile per-packet one-way delay: 109.454 ms

Loss rate: 18.72%

-- Flow 1:

Average throughput: 60.27 Mbit/s

95th percentile per-packet one-way delay: 107.366 ms

Loss rate: 17.71%

-- Flow 2:

Average throughput: 21.69 Mbit/s

95th percentile per-packet one-way delay: 114.617 ms

Loss rate: 21.91%

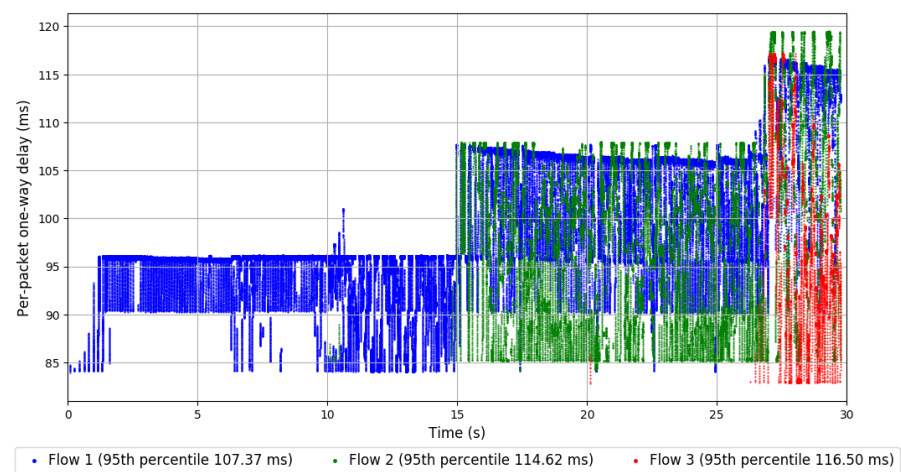
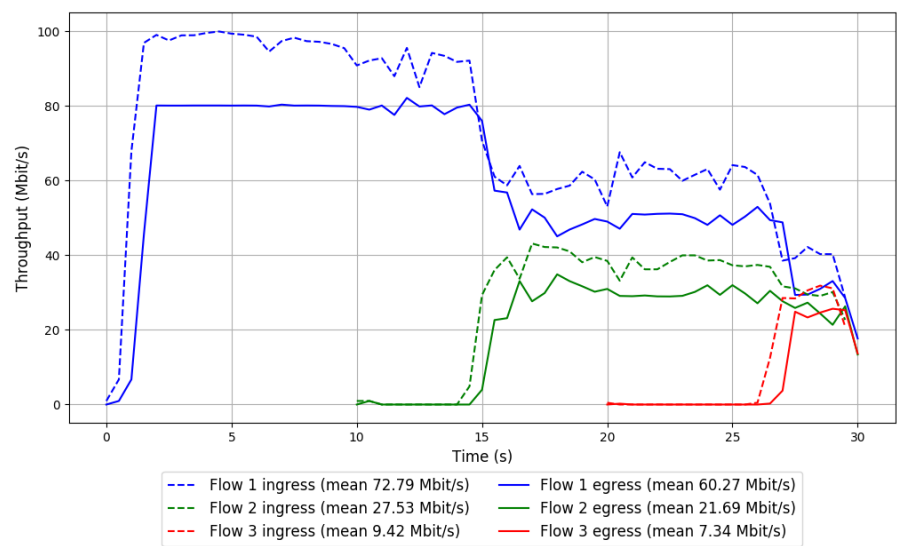
-- Flow 3:

Average throughput: 7.34 Mbit/s

95th percentile per-packet one-way delay: 116.504 ms

Loss rate: 23.42%

Run 6: Report of Indigo — Data Link

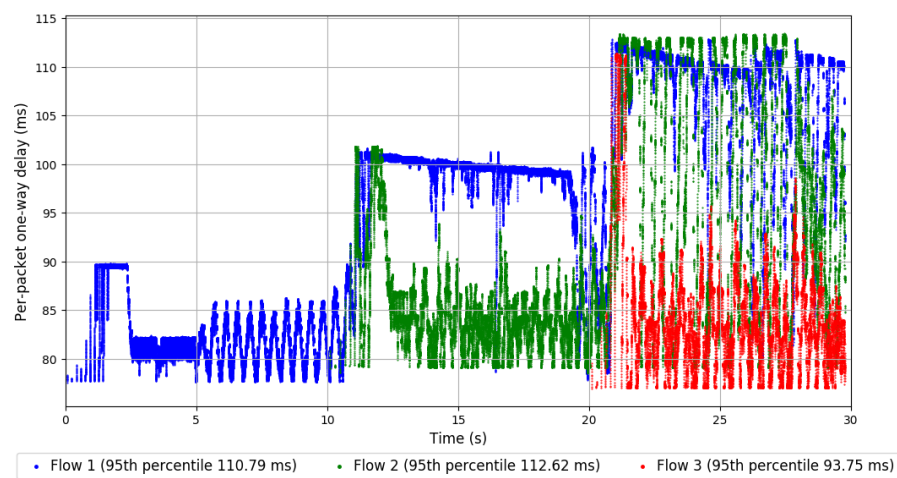
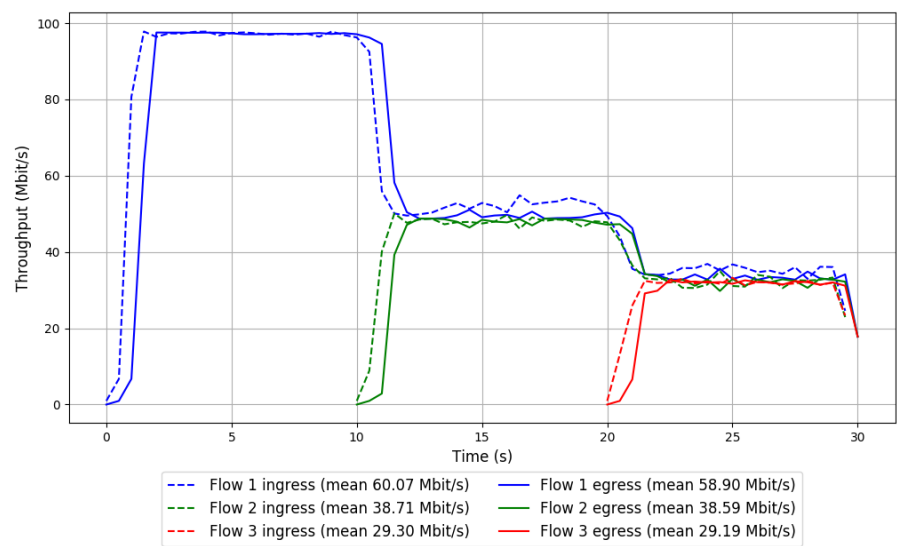


Run 7: Statistics of Indigo

Start at: 2018-08-10 03:44:07
End at: 2018-08-10 03:44:37
Local clock offset: -5.104 ms
Remote clock offset: 8.536 ms

Below is generated by plot.py at 2018-08-10 05:02:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.96 Mbit/s
95th percentile per-packet one-way delay: 111.145 ms
Loss rate: 2.07%
-- Flow 1:
Average throughput: 58.90 Mbit/s
95th percentile per-packet one-way delay: 110.793 ms
Loss rate: 2.48%
-- Flow 2:
Average throughput: 38.59 Mbit/s
95th percentile per-packet one-way delay: 112.616 ms
Loss rate: 1.13%
-- Flow 3:
Average throughput: 29.19 Mbit/s
95th percentile per-packet one-way delay: 93.747 ms
Loss rate: 2.02%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-08-10 04:05:20

End at: 2018-08-10 04:05:50

Local clock offset: -3.919 ms

Remote clock offset: 2.836 ms

Below is generated by plot.py at 2018-08-10 05:02:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.12 Mbit/s

95th percentile per-packet one-way delay: 114.591 ms

Loss rate: 1.99%

-- Flow 1:

Average throughput: 58.59 Mbit/s

95th percentile per-packet one-way delay: 114.037 ms

Loss rate: 2.37%

-- Flow 2:

Average throughput: 39.11 Mbit/s

95th percentile per-packet one-way delay: 117.582 ms

Loss rate: 1.13%

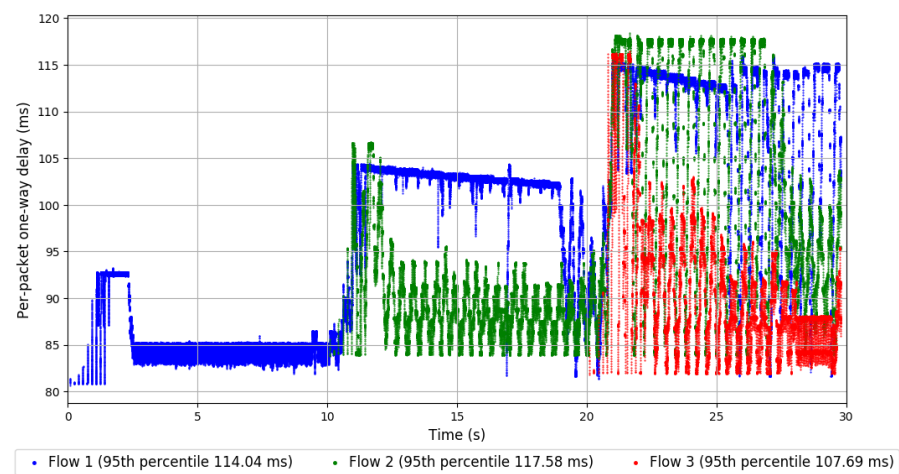
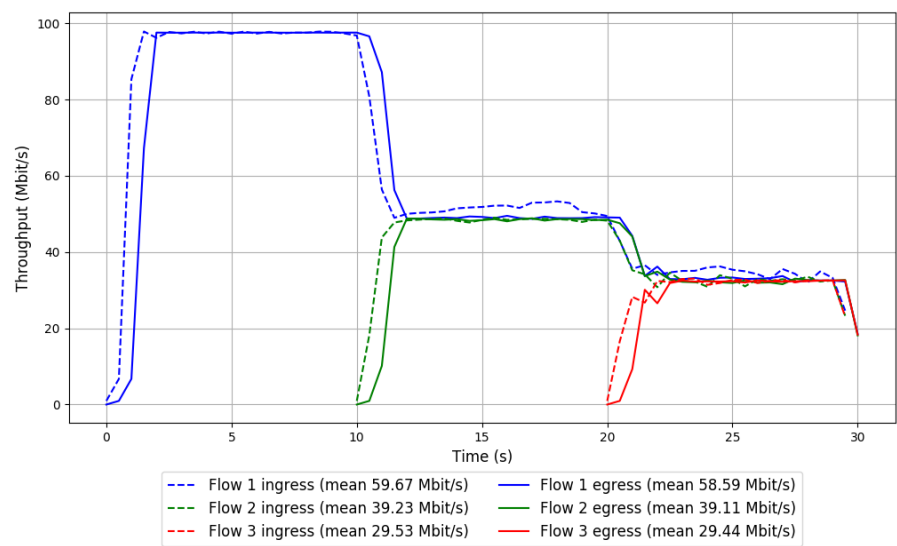
-- Flow 3:

Average throughput: 29.44 Mbit/s

95th percentile per-packet one-way delay: 107.687 ms

Loss rate: 1.95%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-08-10 04:26:29

End at: 2018-08-10 04:26:59

Local clock offset: -3.041 ms

Remote clock offset: 0.325 ms

Below is generated by plot.py at 2018-08-10 05:02:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.52 Mbit/s

95th percentile per-packet one-way delay: 116.324 ms

Loss rate: 4.36%

-- Flow 1:

Average throughput: 58.25 Mbit/s

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

Loss rate: 5.92%

-- Flow 2:

Average throughput: 38.85 Mbit/s

95th percentile per-packet one-way delay: 116.262 ms

Loss rate: 1.12%

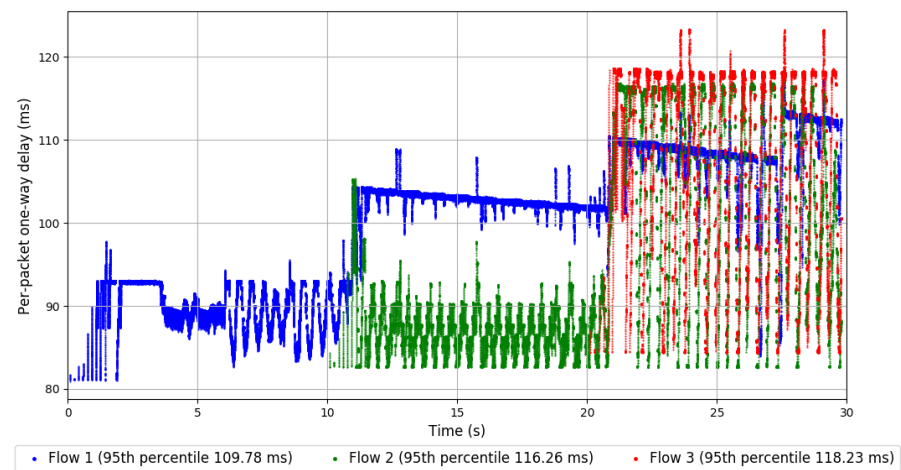
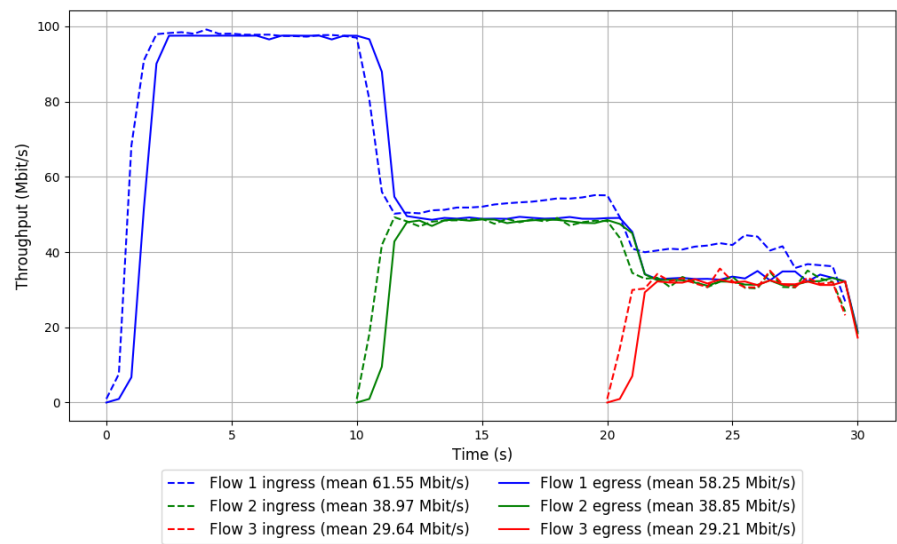
-- Flow 3:

Average throughput: 29.21 Mbit/s

95th percentile per-packet one-way delay: 118.231 ms

Loss rate: 3.13%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-08-10 04:47:49

End at: 2018-08-10 04:48:19

Local clock offset: -3.343 ms

Remote clock offset: 1.981 ms

Below is generated by plot.py at 2018-08-10 05:02:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.74 Mbit/s

95th percentile per-packet one-way delay: 114.275 ms

Loss rate: 8.09%

-- Flow 1:

Average throughput: 55.81 Mbit/s

95th percentile per-packet one-way delay: 113.752 ms

Loss rate: 5.57%

-- Flow 2:

Average throughput: 34.74 Mbit/s

95th percentile per-packet one-way delay: 116.085 ms

Loss rate: 9.88%

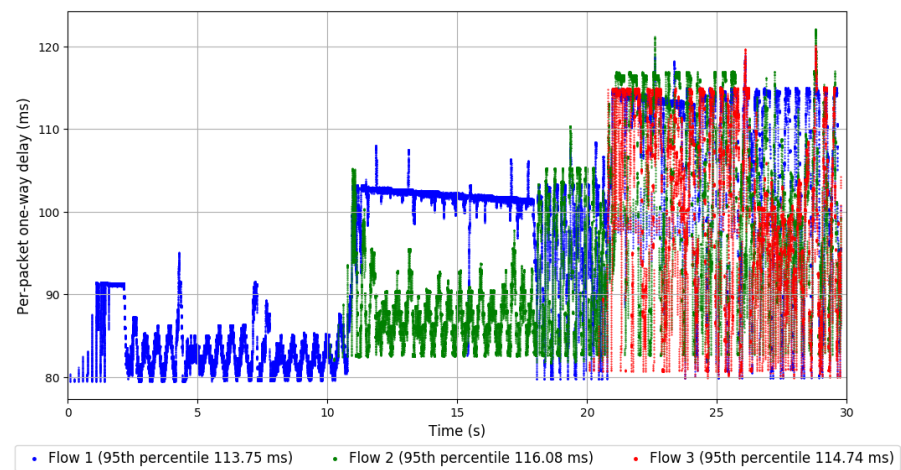
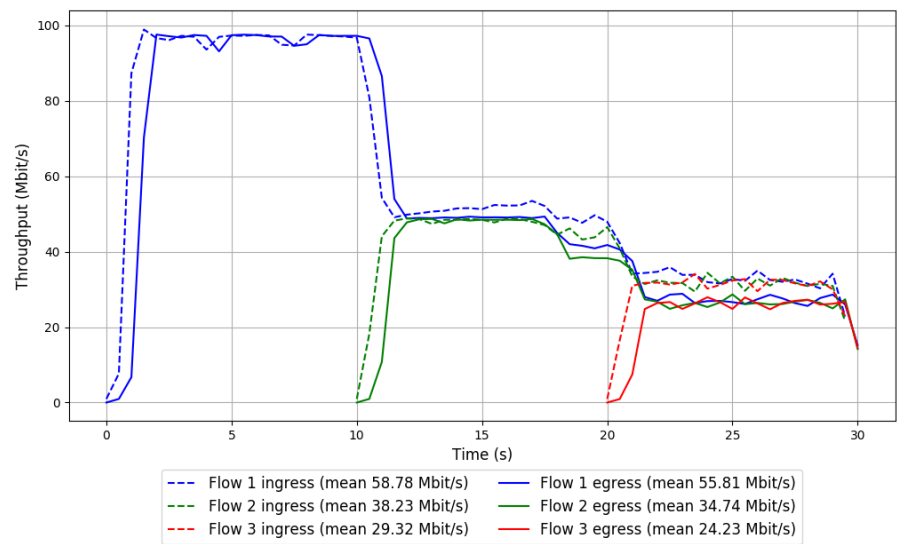
-- Flow 3:

Average throughput: 24.23 Mbit/s

95th percentile per-packet one-way delay: 114.744 ms

Loss rate: 18.73%

Run 10: Report of Indigo — Data Link

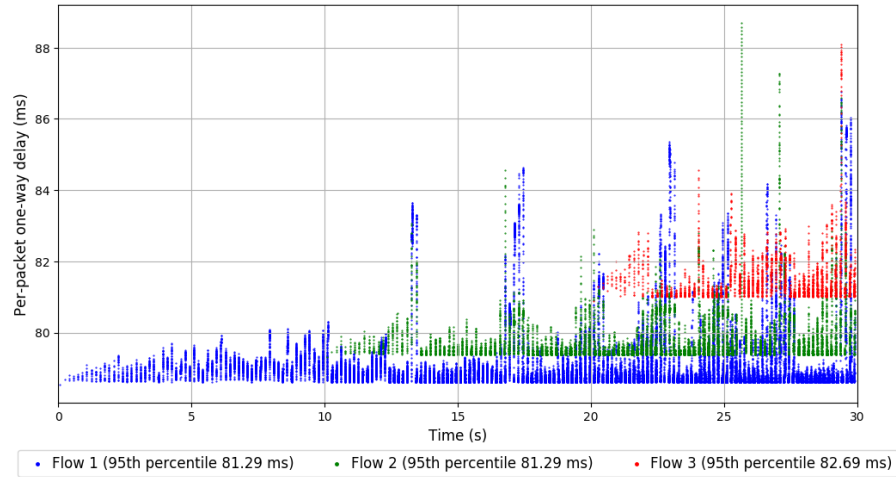
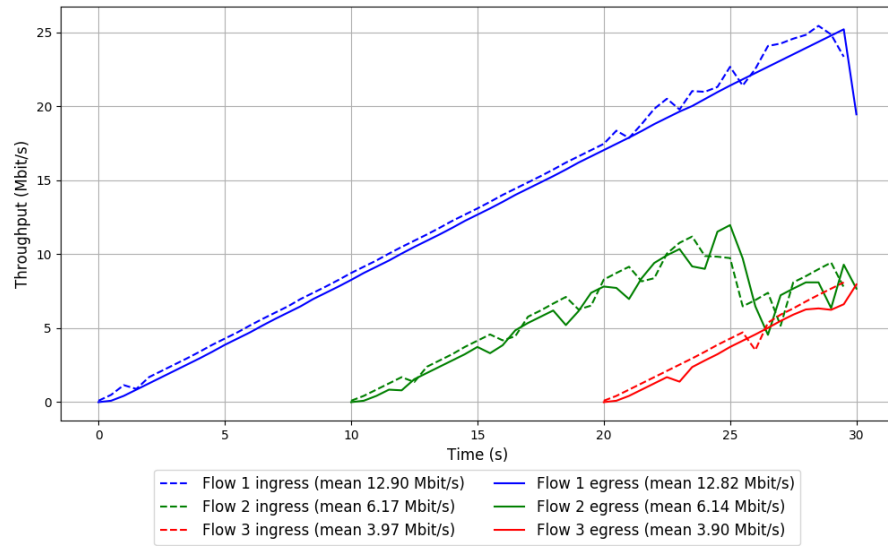


```
Run 1: Statistics of LEDBAT

Start at: 2018-08-10 01:38:43
End at: 2018-08-10 01:39:13
Local clock offset: -2.854 ms
Remote clock offset: 5.426 ms

# Below is generated by plot.py at 2018-08-10 05:02:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.18 Mbit/s
95th percentile per-packet one-way delay: 81.871 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 12.82 Mbit/s
95th percentile per-packet one-way delay: 81.288 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 6.14 Mbit/s
95th percentile per-packet one-way delay: 81.289 ms
Loss rate: 1.34%
-- Flow 3:
Average throughput: 3.90 Mbit/s
95th percentile per-packet one-way delay: 82.694 ms
Loss rate: 3.47%
```


Run 1: Report of LEDBAT — Data Link

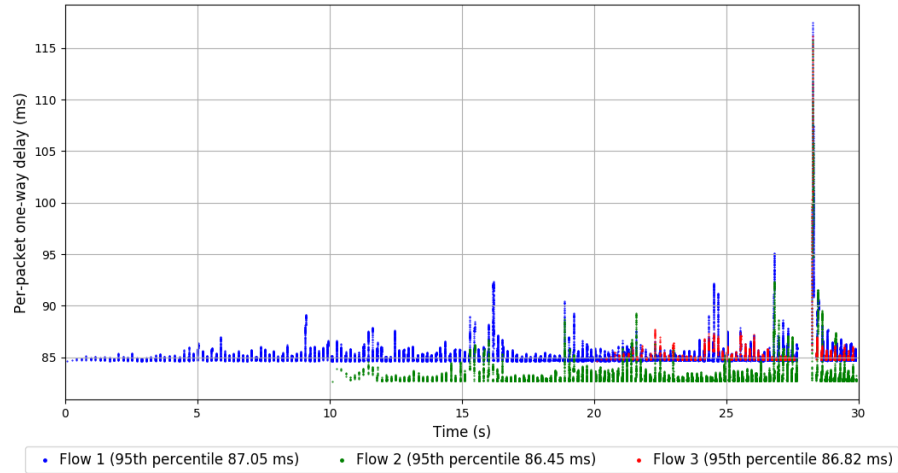
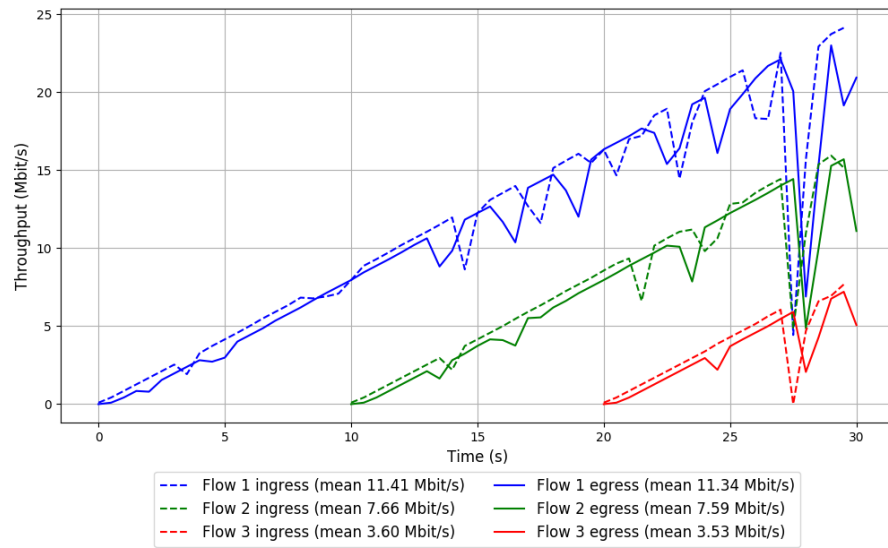


Run 2: Statistics of LEDBAT

Start at: 2018-08-10 01:59:55
End at: 2018-08-10 02:00:25
Local clock offset: -2.895 ms
Remote clock offset: 1.954 ms

Below is generated by plot.py at 2018-08-10 05:02:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 17.52 Mbit/s
95th percentile per-packet one-way delay: 86.899 ms
Loss rate: 1.51%
-- Flow 1:
Average throughput: 11.34 Mbit/s
95th percentile per-packet one-way delay: 87.049 ms
Loss rate: 1.18%
-- Flow 2:
Average throughput: 7.59 Mbit/s
95th percentile per-packet one-way delay: 86.449 ms
Loss rate: 1.76%
-- Flow 3:
Average throughput: 3.53 Mbit/s
95th percentile per-packet one-way delay: 86.818 ms
Loss rate: 3.67%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-08-10 02:20:56

End at: 2018-08-10 02:21:26

Local clock offset: -3.913 ms

Remote clock offset: 7.02 ms

Below is generated by plot.py at 2018-08-10 05:02:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.16 Mbit/s

95th percentile per-packet one-way delay: 79.736 ms

Loss rate: 1.45%

-- Flow 1:

Average throughput: 12.80 Mbit/s

95th percentile per-packet one-way delay: 79.951 ms

Loss rate: 1.12%

-- Flow 2:

Average throughput: 7.73 Mbit/s

95th percentile per-packet one-way delay: 79.258 ms

Loss rate: 1.76%

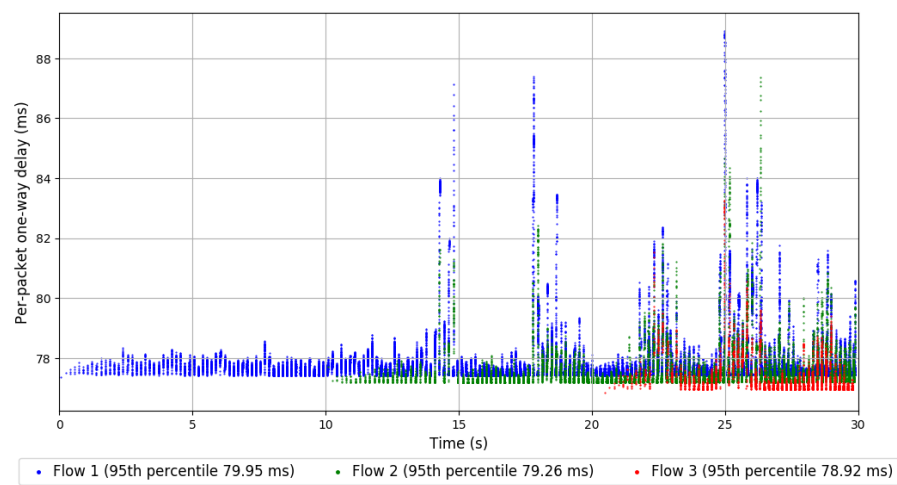
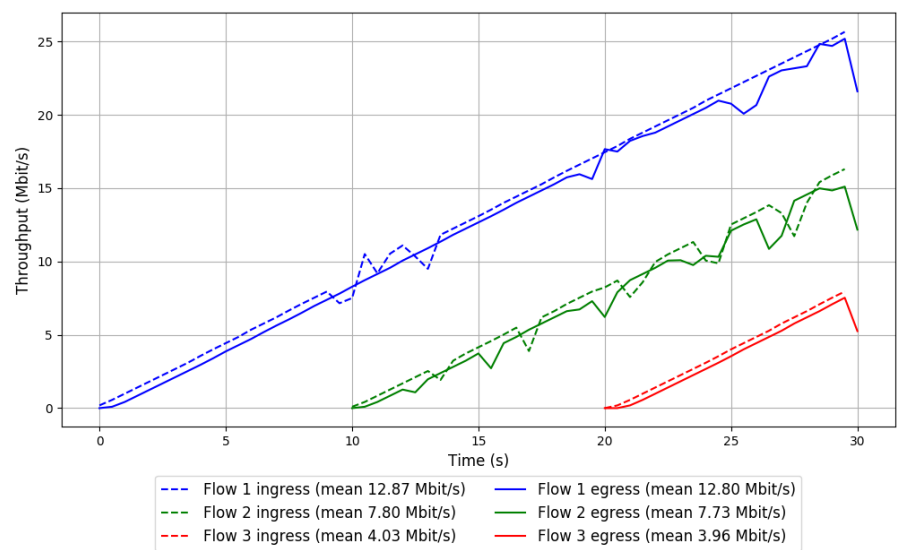
-- Flow 3:

Average throughput: 3.96 Mbit/s

95th percentile per-packet one-way delay: 78.915 ms

Loss rate: 3.54%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-08-10 02:42:03

End at: 2018-08-10 02:42:33

Local clock offset: -3.606 ms

Remote clock offset: 9.557 ms

Below is generated by plot.py at 2018-08-10 05:02:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.75 Mbit/s

95th percentile per-packet one-way delay: 81.375 ms

Loss rate: 1.47%

-- Flow 1:

Average throughput: 12.38 Mbit/s

95th percentile per-packet one-way delay: 82.266 ms

Loss rate: 1.13%

-- Flow 2:

Average throughput: 7.62 Mbit/s

95th percentile per-packet one-way delay: 78.614 ms

Loss rate: 1.78%

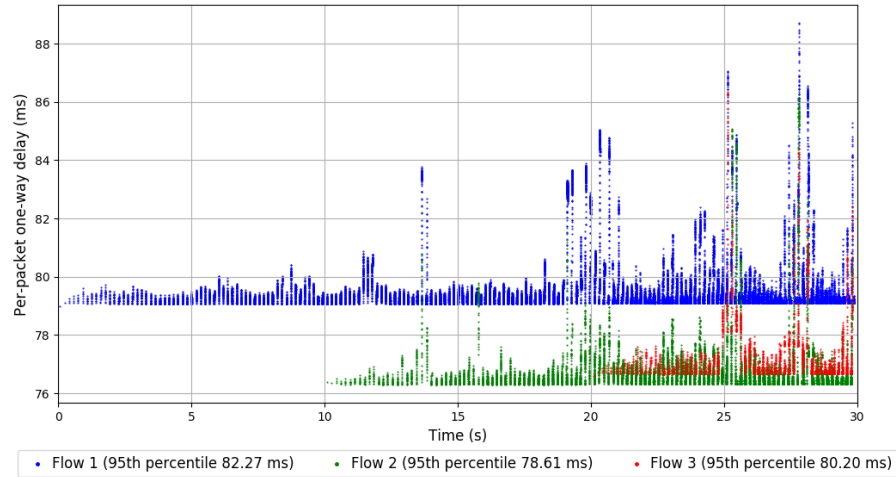
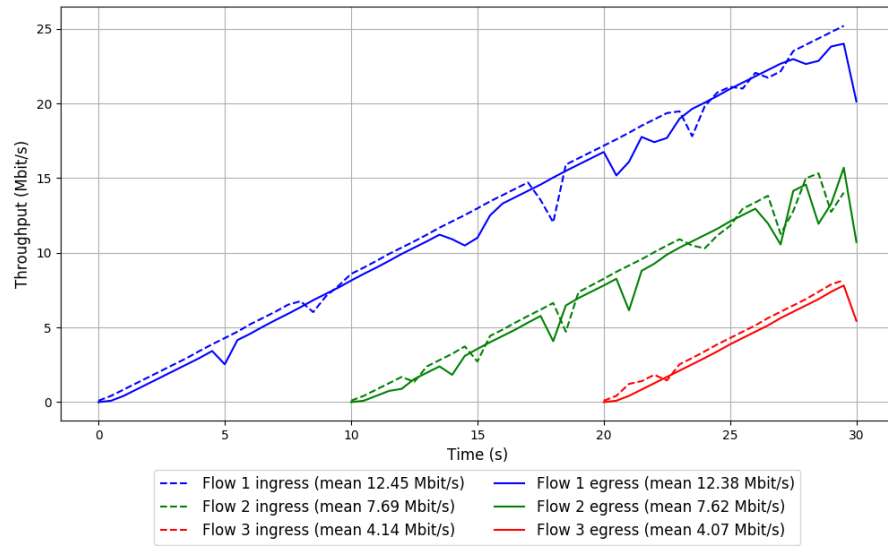
-- Flow 3:

Average throughput: 4.07 Mbit/s

95th percentile per-packet one-way delay: 80.200 ms

Loss rate: 3.41%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

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

End at: 2018-08-10 03:03:38

Local clock offset: -3.223 ms

Remote clock offset: 9.499 ms

Below is generated by plot.py at 2018-08-10 05:02:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.55 Mbit/s

95th percentile per-packet one-way delay: 82.028 ms

Loss rate: 1.50%

-- Flow 1:

Average throughput: 11.47 Mbit/s

95th percentile per-packet one-way delay: 81.483 ms

Loss rate: 1.15%

-- Flow 2:

Average throughput: 7.33 Mbit/s

95th percentile per-packet one-way delay: 82.917 ms

Loss rate: 1.81%

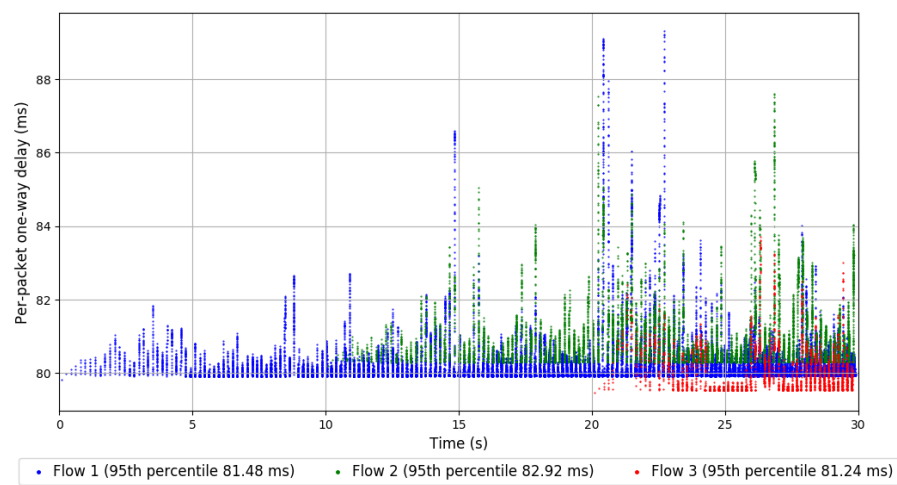
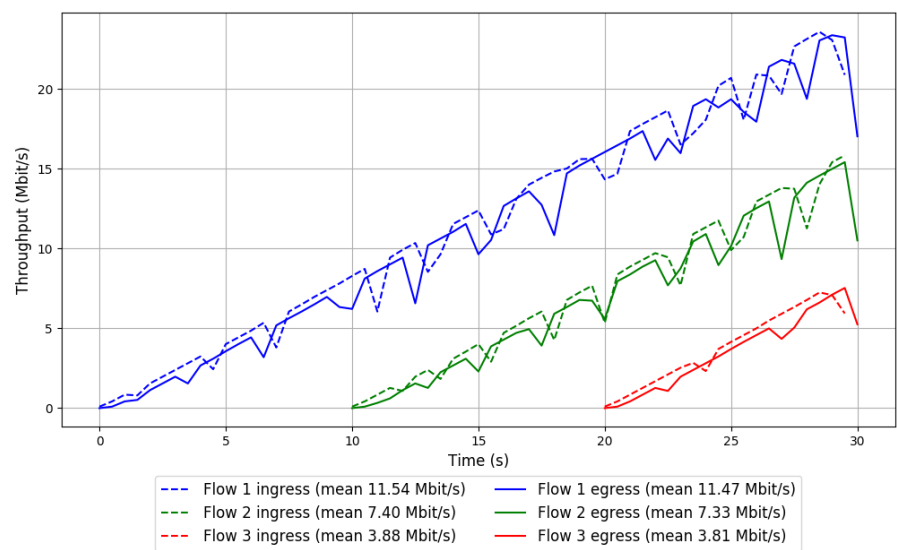
-- Flow 3:

Average throughput: 3.81 Mbit/s

95th percentile per-packet one-way delay: 81.236 ms

Loss rate: 3.53%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-08-10 03:24:19

End at: 2018-08-10 03:24:49

Local clock offset: -3.778 ms

Remote clock offset: 7.971 ms

Below is generated by plot.py at 2018-08-10 05:02:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.12 Mbit/s

95th percentile per-packet one-way delay: 81.644 ms

Loss rate: 1.37%

-- Flow 1:

Average throughput: 11.46 Mbit/s

95th percentile per-packet one-way delay: 81.871 ms

Loss rate: 1.10%

-- Flow 2:

Average throughput: 7.96 Mbit/s

95th percentile per-packet one-way delay: 80.299 ms

Loss rate: 1.42%

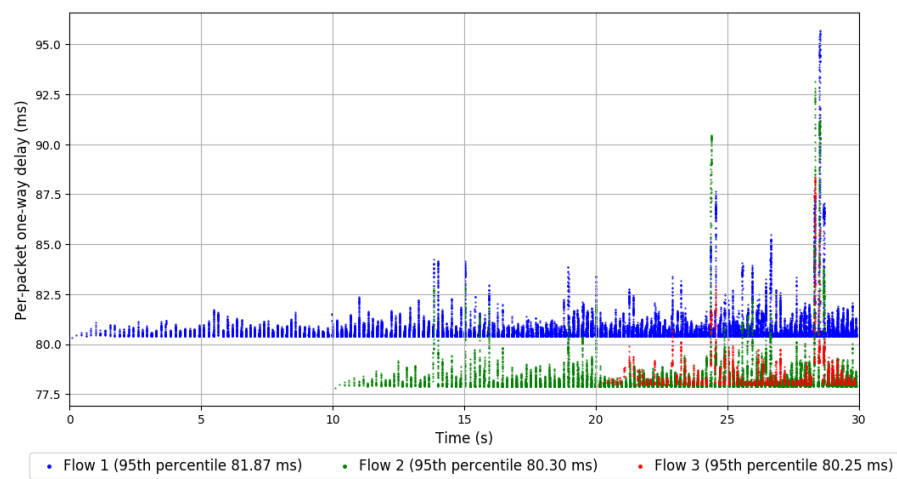
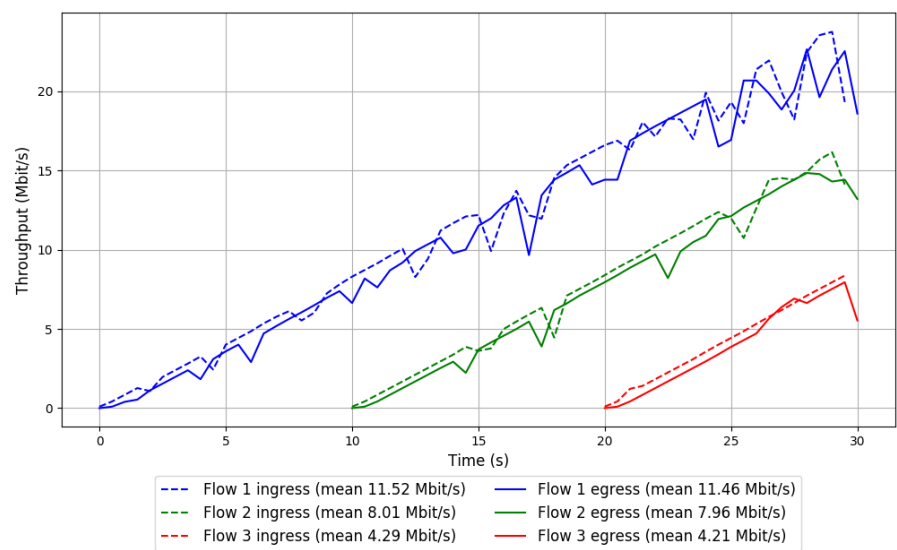
-- Flow 3:

Average throughput: 4.21 Mbit/s

95th percentile per-packet one-way delay: 80.255 ms

Loss rate: 3.35%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-08-10 03:45:25

End at: 2018-08-10 03:45:55

Local clock offset: -4.284 ms

Remote clock offset: 2.647 ms

Below is generated by plot.py at 2018-08-10 05:02:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.69 Mbit/s

95th percentile per-packet one-way delay: 85.899 ms

Loss rate: 1.41%

-- Flow 1:

Average throughput: 12.80 Mbit/s

95th percentile per-packet one-way delay: 86.067 ms

Loss rate: 1.12%

-- Flow 2:

Average throughput: 8.34 Mbit/s

95th percentile per-packet one-way delay: 85.252 ms

Loss rate: 1.59%

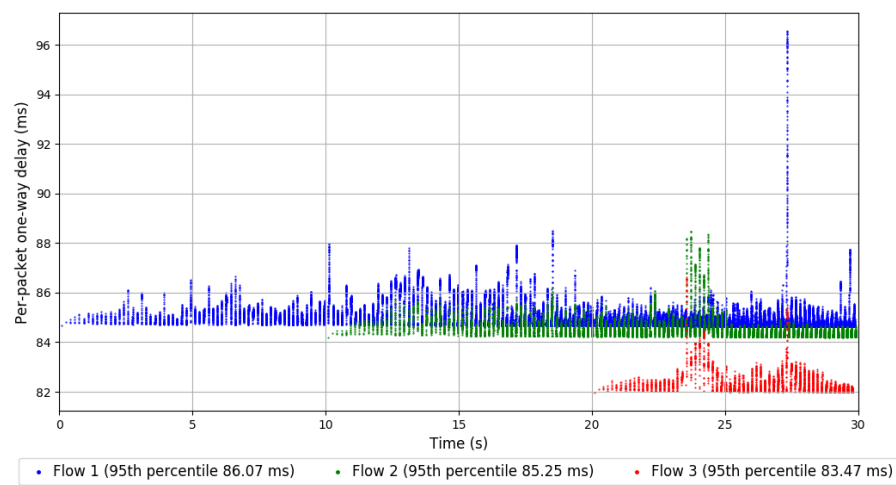
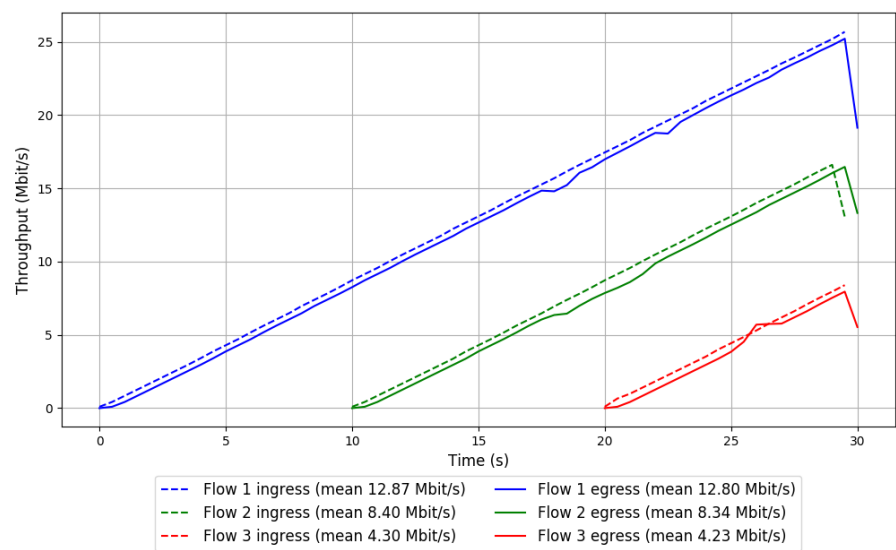
-- Flow 3:

Average throughput: 4.23 Mbit/s

95th percentile per-packet one-way delay: 83.475 ms

Loss rate: 3.38%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-08-10 04:06:37

End at: 2018-08-10 04:07:07

Local clock offset: -3.062 ms

Remote clock offset: 6.696 ms

Below is generated by plot.py at 2018-08-10 05:02:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.40 Mbit/s

95th percentile per-packet one-way delay: 80.263 ms

Loss rate: 1.41%

-- Flow 1:

Average throughput: 13.23 Mbit/s

95th percentile per-packet one-way delay: 79.203 ms

Loss rate: 1.10%

-- Flow 2:

Average throughput: 8.75 Mbit/s

95th percentile per-packet one-way delay: 78.502 ms

Loss rate: 1.66%

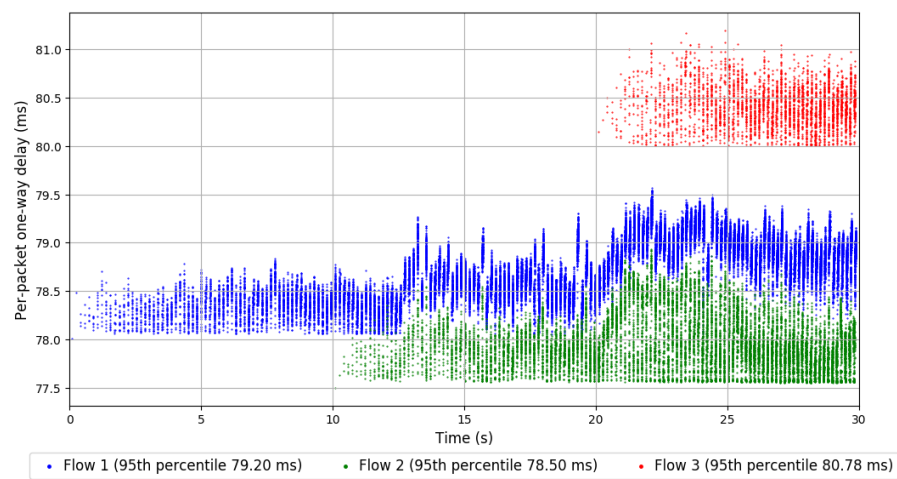
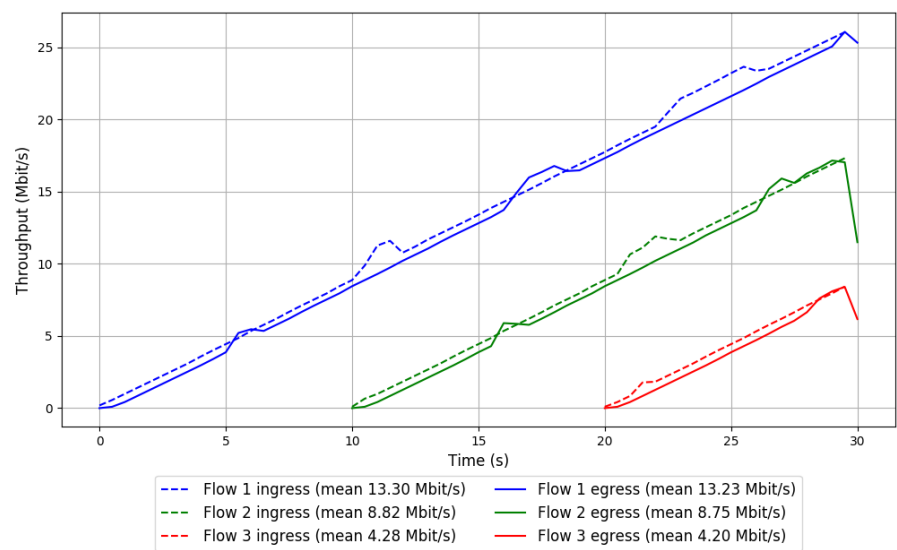
-- Flow 3:

Average throughput: 4.20 Mbit/s

95th percentile per-packet one-way delay: 80.780 ms

Loss rate: 3.37%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-08-10 04:27:46

End at: 2018-08-10 04:28:16

Local clock offset: -3.055 ms

Remote clock offset: 3.917 ms

Below is generated by plot.py at 2018-08-10 05:02:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.73 Mbit/s

95th percentile per-packet one-way delay: 81.056 ms

Loss rate: 1.40%

-- Flow 1:

Average throughput: 13.58 Mbit/s

95th percentile per-packet one-way delay: 80.497 ms

Loss rate: 1.08%

-- Flow 2:

Average throughput: 8.73 Mbit/s

95th percentile per-packet one-way delay: 81.554 ms

Loss rate: 1.66%

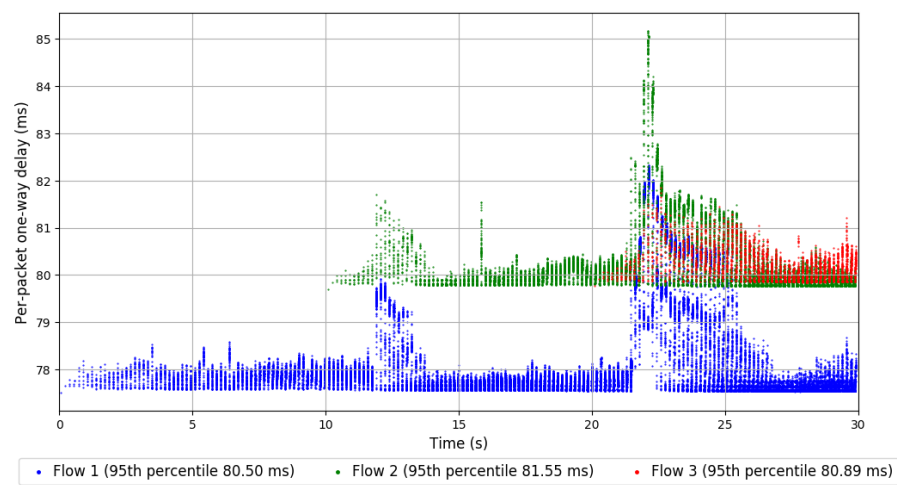
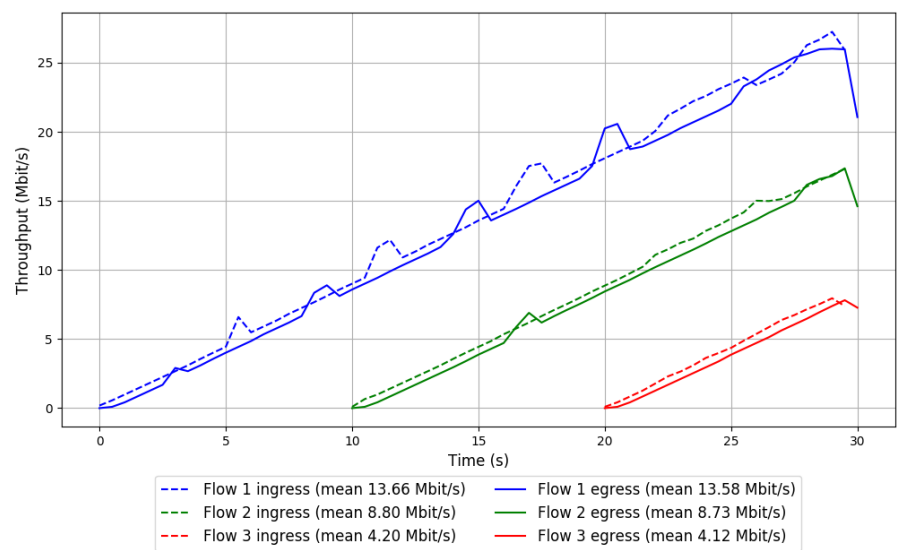
-- Flow 3:

Average throughput: 4.12 Mbit/s

95th percentile per-packet one-way delay: 80.887 ms

Loss rate: 3.36%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-08-10 04:49:06

End at: 2018-08-10 04:49:36

Local clock offset: -5.396 ms

Remote clock offset: 3.841 ms

Below is generated by plot.py at 2018-08-10 05:02:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.64 Mbit/s

95th percentile per-packet one-way delay: 79.038 ms

Loss rate: 1.40%

-- Flow 1:

Average throughput: 13.62 Mbit/s

95th percentile per-packet one-way delay: 79.725 ms

Loss rate: 1.08%

-- Flow 2:

Average throughput: 8.43 Mbit/s

95th percentile per-packet one-way delay: 78.839 ms

Loss rate: 1.69%

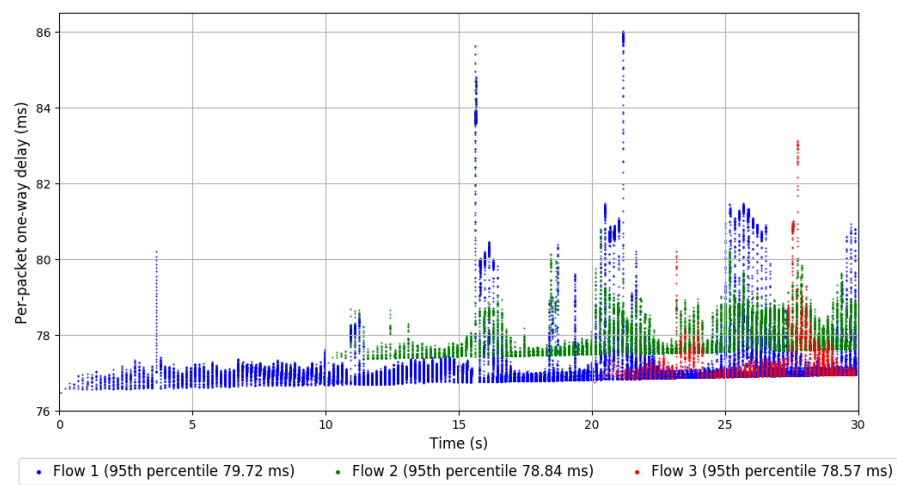
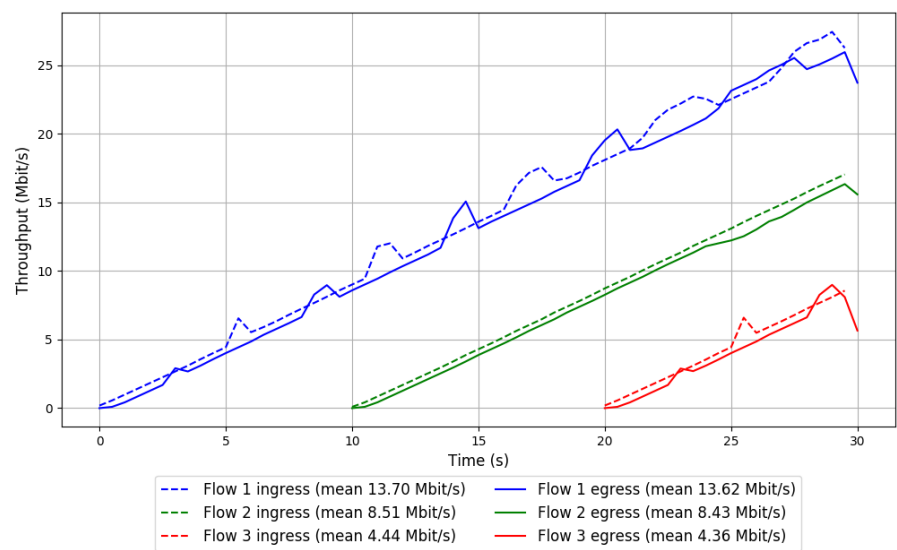
-- Flow 3:

Average throughput: 4.36 Mbit/s

95th percentile per-packet one-way delay: 78.572 ms

Loss rate: 3.32%

Run 10: Report of LEDBAT — Data Link

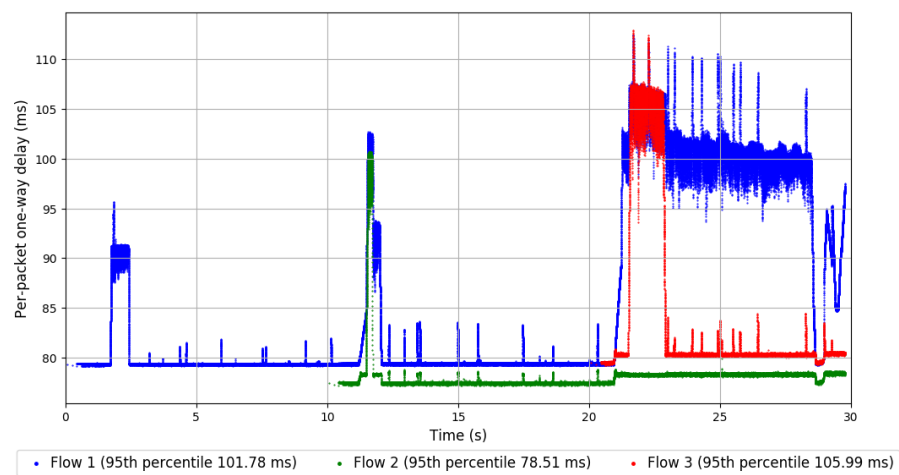
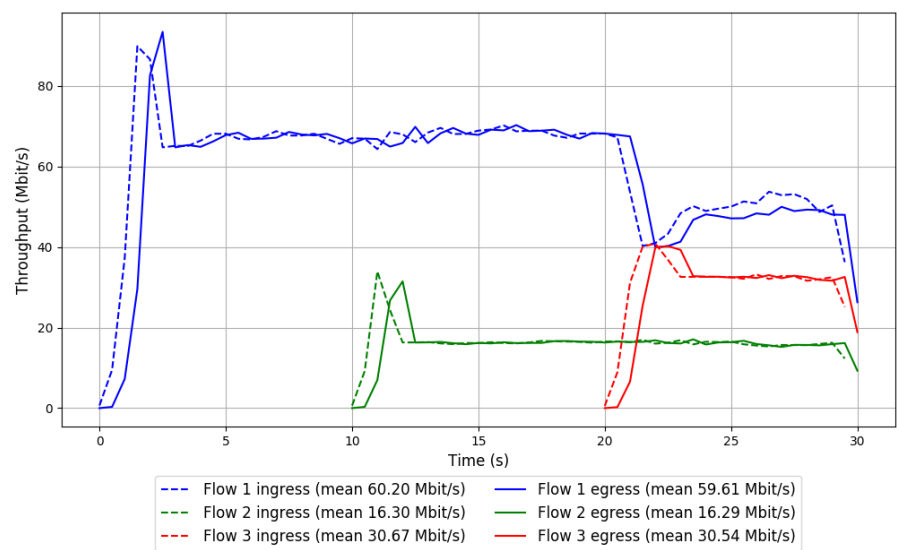


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-08-10 01:21:21
End at: 2018-08-10 01:21:51
Local clock offset: -3.649 ms
Remote clock offset: 6.265 ms

# Below is generated by plot.py at 2018-08-10 05:03:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.38 Mbit/s
95th percentile per-packet one-way delay: 102.184 ms
Loss rate: 1.53%
-- Flow 1:
Average throughput: 59.61 Mbit/s
95th percentile per-packet one-way delay: 101.778 ms
Loss rate: 1.55%
-- Flow 2:
Average throughput: 16.29 Mbit/s
95th percentile per-packet one-way delay: 78.508 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 30.54 Mbit/s
95th percentile per-packet one-way delay: 105.990 ms
Loss rate: 2.13%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-08-10 01:42:22

End at: 2018-08-10 01:42:52

Local clock offset: -2.904 ms

Remote clock offset: 7.746 ms

Below is generated by plot.py at 2018-08-10 05:03:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.78 Mbit/s

95th percentile per-packet one-way delay: 78.618 ms

Loss rate: 2.33%

-- Flow 1:

Average throughput: 65.88 Mbit/s

95th percentile per-packet one-way delay: 78.625 ms

Loss rate: 2.23%

-- Flow 2:

Average throughput: 8.29 Mbit/s

95th percentile per-packet one-way delay: 78.566 ms

Loss rate: 2.87%

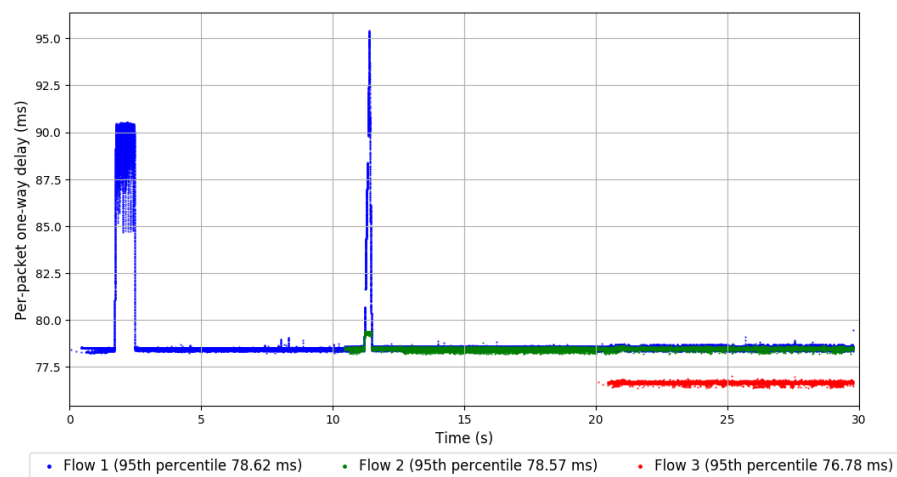
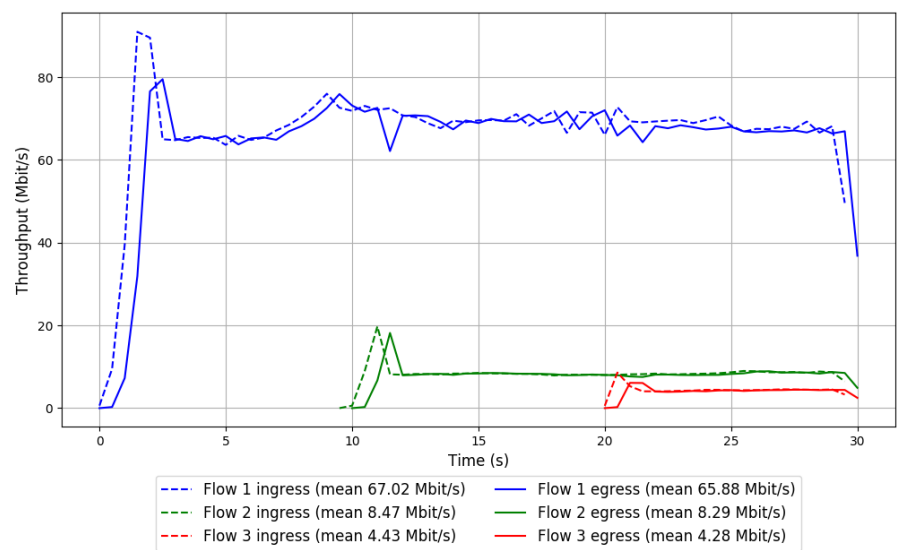
-- Flow 3:

Average throughput: 4.28 Mbit/s

95th percentile per-packet one-way delay: 76.776 ms

Loss rate: 4.88%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-08-10 02:03:35

End at: 2018-08-10 02:04:05

Local clock offset: -2.903 ms

Remote clock offset: 3.1 ms

Below is generated by plot.py at 2018-08-10 05:03:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.15 Mbit/s

95th percentile per-packet one-way delay: 113.362 ms

Loss rate: 3.19%

-- Flow 1:

Average throughput: 53.54 Mbit/s

95th percentile per-packet one-way delay: 113.495 ms

Loss rate: 3.88%

-- Flow 2:

Average throughput: 31.73 Mbit/s

95th percentile per-packet one-way delay: 101.827 ms

Loss rate: 1.05%

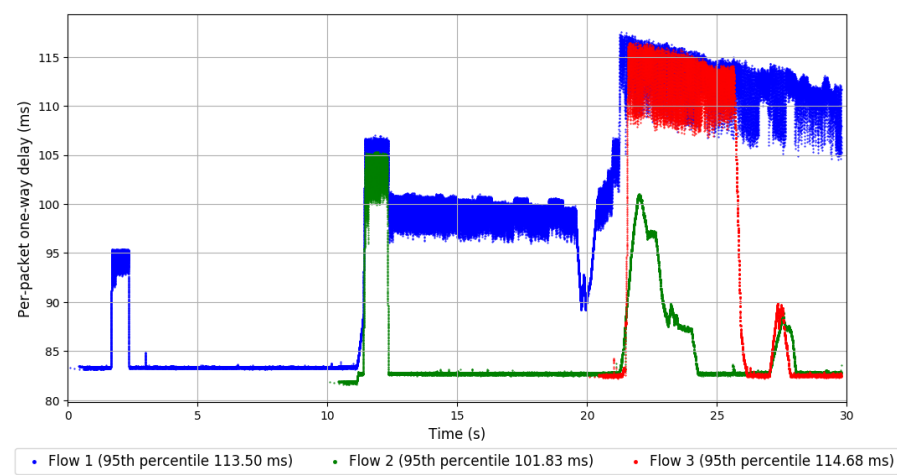
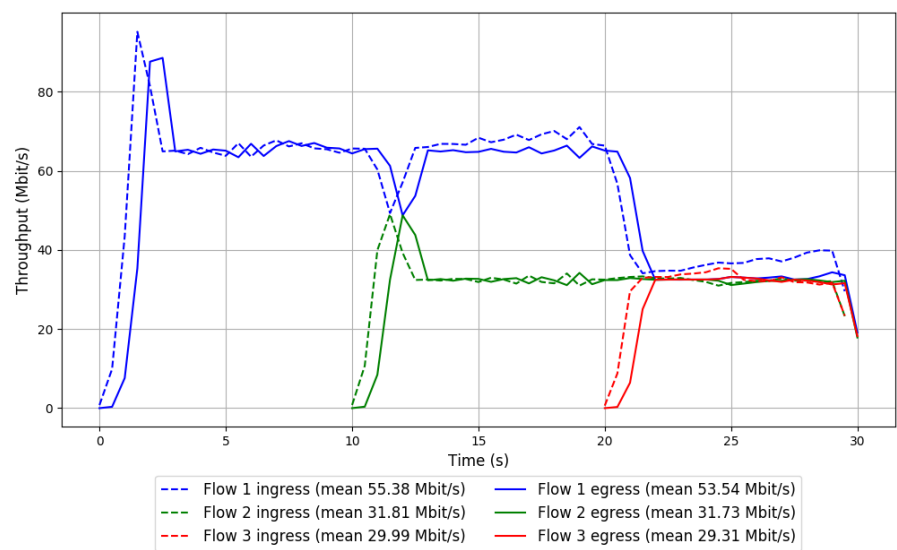
-- Flow 3:

Average throughput: 29.31 Mbit/s

95th percentile per-packet one-way delay: 114.676 ms

Loss rate: 3.88%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-08-10 02:24:37

End at: 2018-08-10 02:25:07

Local clock offset: -3.297 ms

Remote clock offset: 3.222 ms

Below is generated by plot.py at 2018-08-10 05:03:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.84 Mbit/s

95th percentile per-packet one-way delay: 112.939 ms

Loss rate: 2.16%

-- Flow 1:

Average throughput: 52.45 Mbit/s

95th percentile per-packet one-way delay: 112.731 ms

Loss rate: 2.24%

-- Flow 2:

Average throughput: 31.47 Mbit/s

95th percentile per-packet one-way delay: 102.439 ms

Loss rate: 1.13%

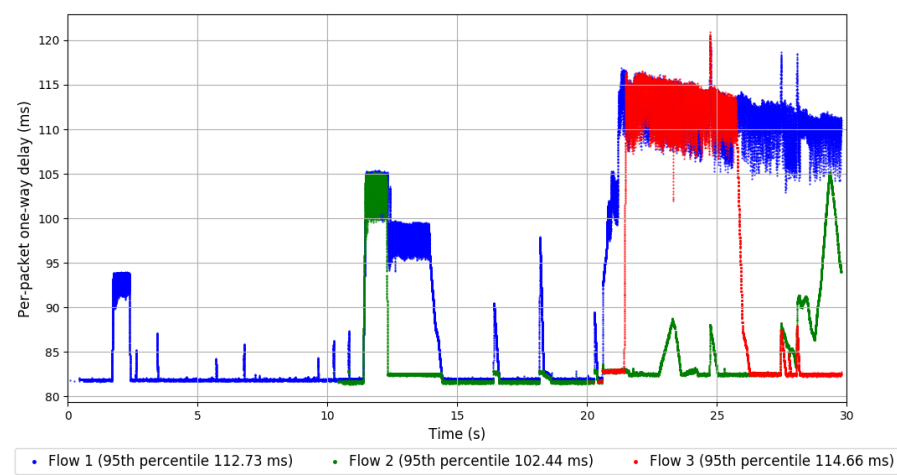
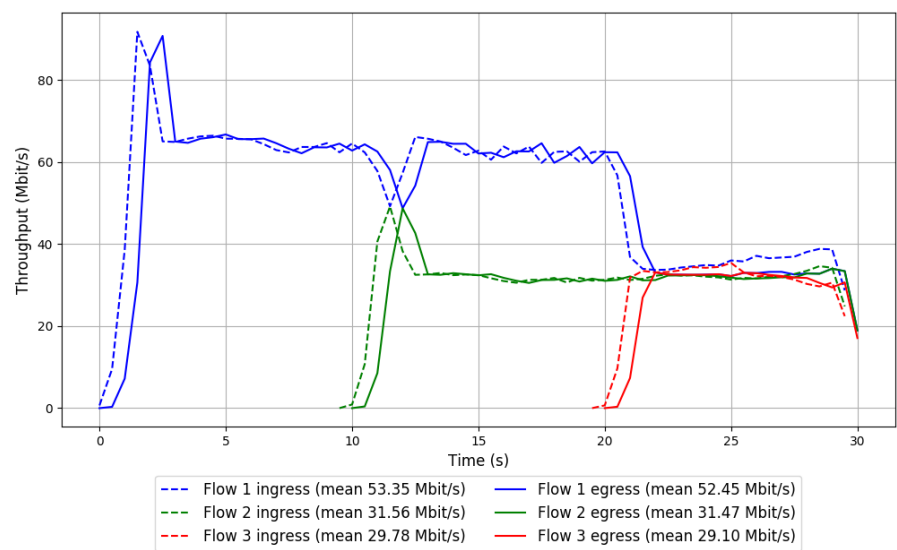
-- Flow 3:

Average throughput: 29.10 Mbit/s

95th percentile per-packet one-way delay: 114.656 ms

Loss rate: 3.93%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-08-10 02:45:44

End at: 2018-08-10 02:46:14

Local clock offset: -4.466 ms

Remote clock offset: 4.992 ms

Below is generated by plot.py at 2018-08-10 05:03:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.09 Mbit/s

95th percentile per-packet one-way delay: 99.980 ms

Loss rate: 2.31%

-- Flow 1:

Average throughput: 2.43 Mbit/s

95th percentile per-packet one-way delay: 83.750 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 61.17 Mbit/s

95th percentile per-packet one-way delay: 98.279 ms

Loss rate: 2.51%

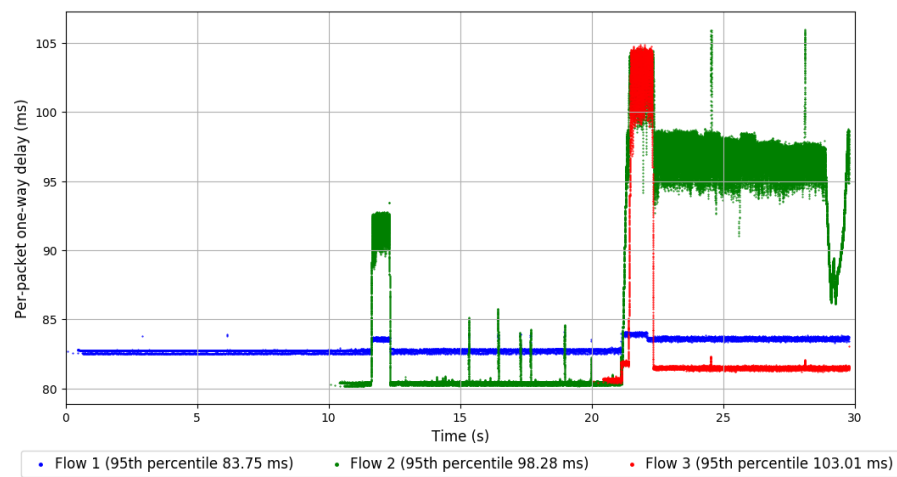
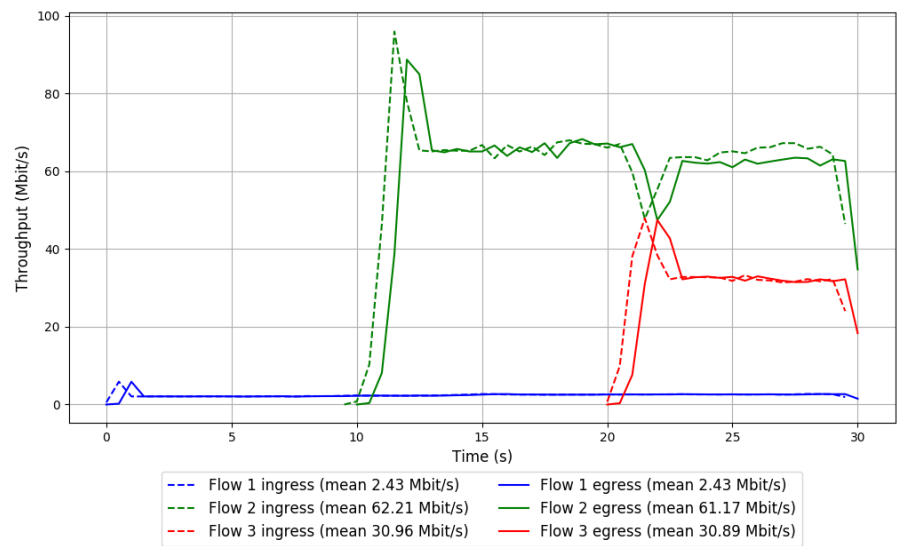
-- Flow 3:

Average throughput: 30.89 Mbit/s

95th percentile per-packet one-way delay: 103.009 ms

Loss rate: 1.89%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-08-10 03:06:48

End at: 2018-08-10 03:07:18

Local clock offset: -3.194 ms

Remote clock offset: 5.387 ms

Below is generated by plot.py at 2018-08-10 05:03:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.02 Mbit/s

95th percentile per-packet one-way delay: 114.951 ms

Loss rate: 4.04%

-- Flow 1:

Average throughput: 51.41 Mbit/s

95th percentile per-packet one-way delay: 111.227 ms

Loss rate: 3.49%

-- Flow 2:

Average throughput: 33.20 Mbit/s

95th percentile per-packet one-way delay: 115.911 ms

Loss rate: 4.93%

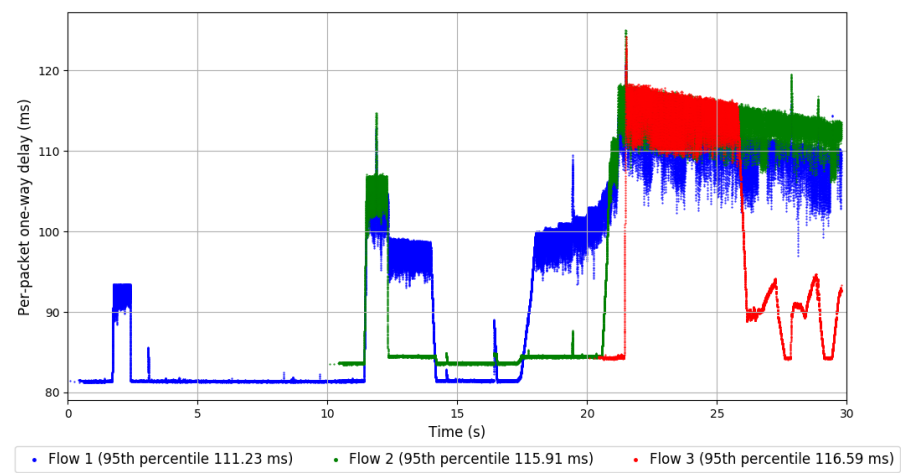
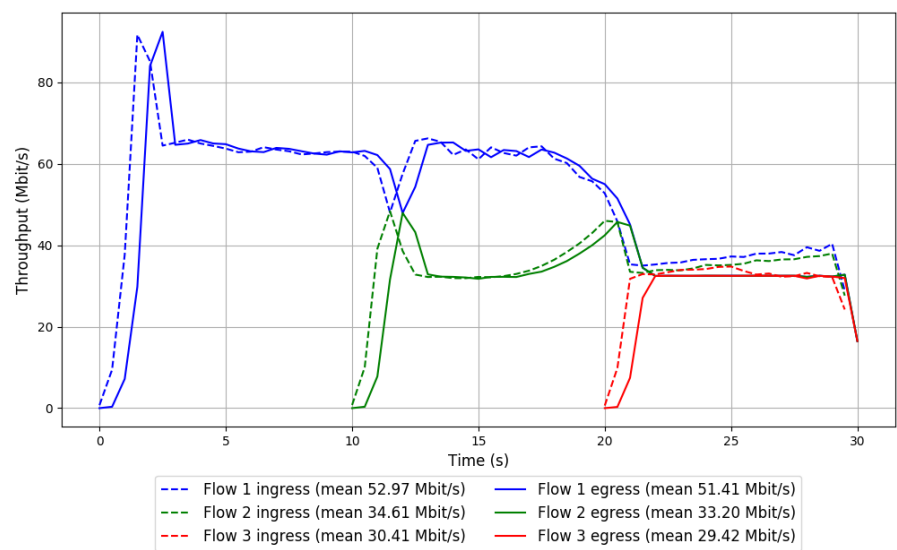
-- Flow 3:

Average throughput: 29.42 Mbit/s

95th percentile per-packet one-way delay: 116.588 ms

Loss rate: 4.91%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-08-10 03:27:59

End at: 2018-08-10 03:28:29

Local clock offset: -3.919 ms

Remote clock offset: 4.228 ms

Below is generated by plot.py at 2018-08-10 05:03:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.56 Mbit/s

95th percentile per-packet one-way delay: 113.640 ms

Loss rate: 2.32%

-- Flow 1:

Average throughput: 52.90 Mbit/s

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

Loss rate: 2.66%

-- Flow 2:

Average throughput: 31.57 Mbit/s

95th percentile per-packet one-way delay: 104.101 ms

Loss rate: 1.02%

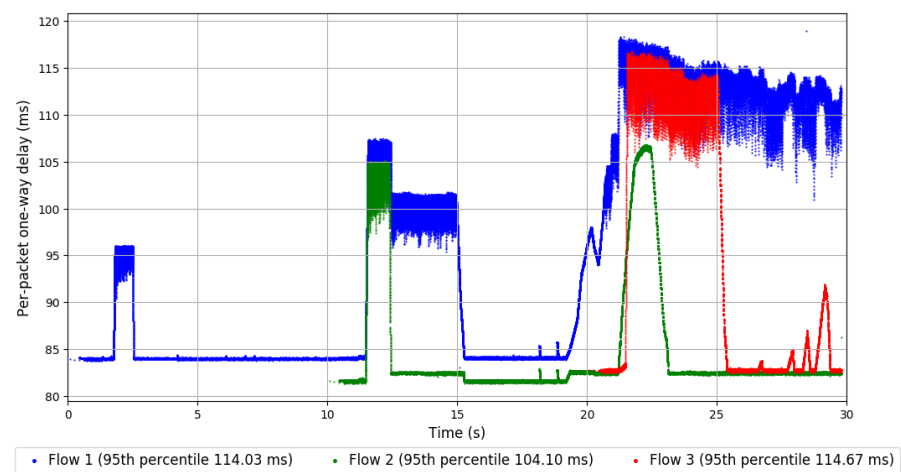
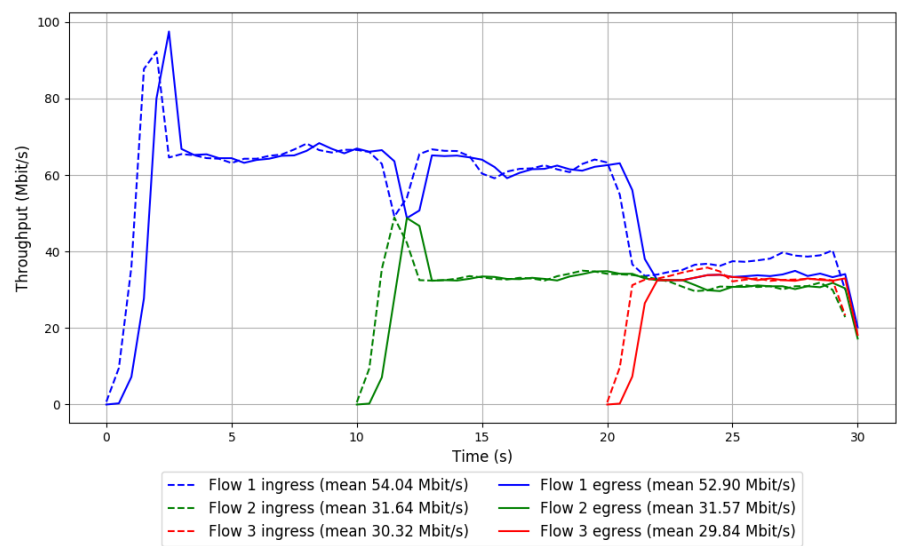
-- Flow 3:

Average throughput: 29.84 Mbit/s

95th percentile per-packet one-way delay: 114.675 ms

Loss rate: 3.23%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-08-10 03:49:05

End at: 2018-08-10 03:49:35

Local clock offset: -4.708 ms

Remote clock offset: 7.106 ms

Below is generated by plot.py at 2018-08-10 05:03:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.33 Mbit/s

95th percentile per-packet one-way delay: 110.705 ms

Loss rate: 5.48%

-- Flow 1:

Average throughput: 57.32 Mbit/s

95th percentile per-packet one-way delay: 106.069 ms

Loss rate: 6.33%

-- Flow 2:

Average throughput: 32.23 Mbit/s

95th percentile per-packet one-way delay: 111.895 ms

Loss rate: 3.72%

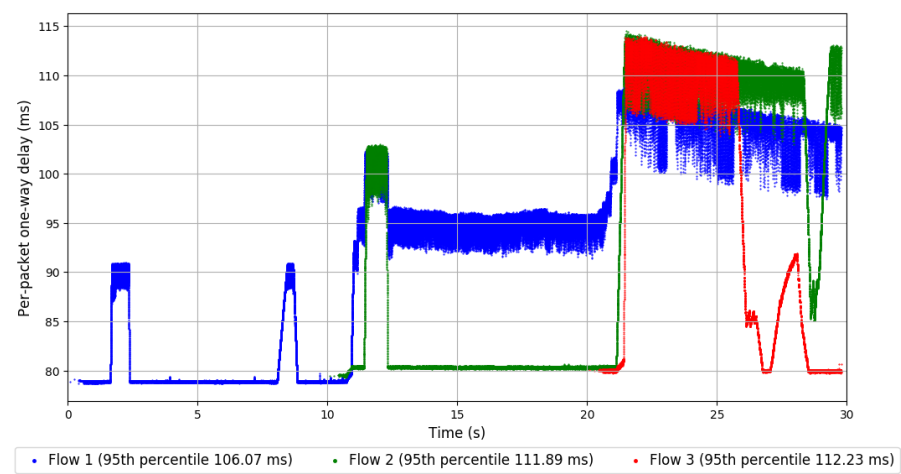
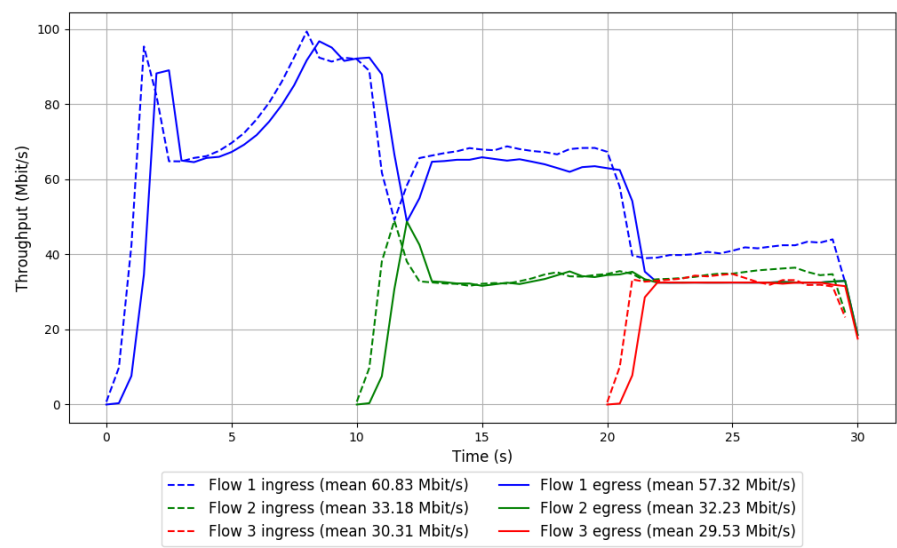
-- Flow 3:

Average throughput: 29.53 Mbit/s

95th percentile per-packet one-way delay: 112.228 ms

Loss rate: 4.21%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-08-10 04:10:18

End at: 2018-08-10 04:10:48

Local clock offset: -2.995 ms

Remote clock offset: 2.768 ms

Below is generated by plot.py at 2018-08-10 05:04:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.93 Mbit/s

95th percentile per-packet one-way delay: 114.137 ms

Loss rate: 5.78%

-- Flow 1:

Average throughput: 55.93 Mbit/s

95th percentile per-packet one-way delay: 110.518 ms

Loss rate: 6.48%

-- Flow 2:

Average throughput: 33.84 Mbit/s

95th percentile per-packet one-way delay: 114.349 ms

Loss rate: 4.49%

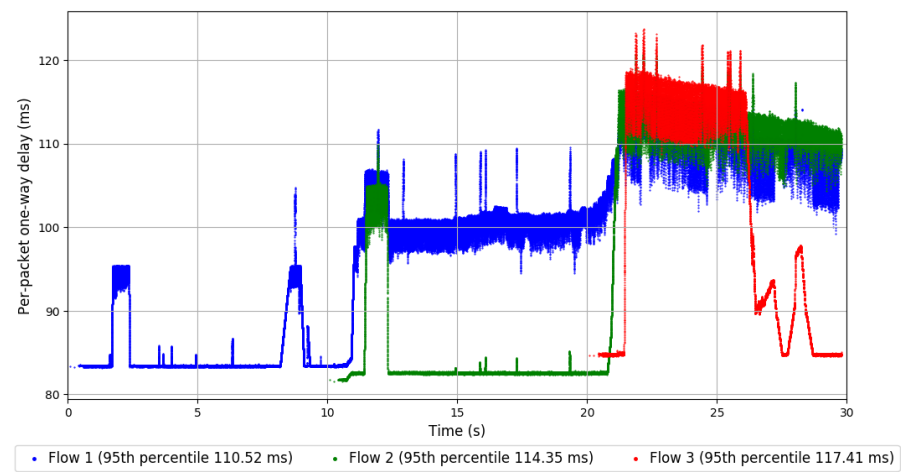
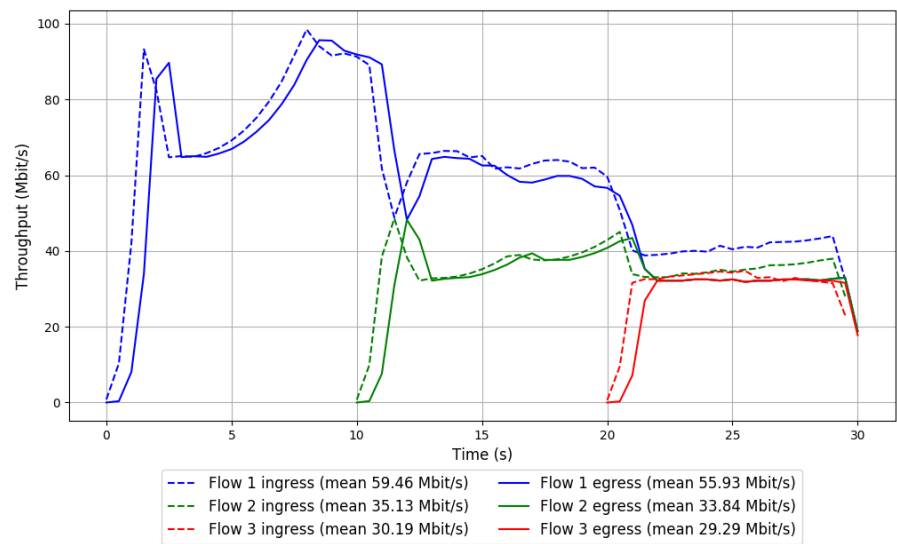
-- Flow 3:

Average throughput: 29.29 Mbit/s

95th percentile per-packet one-way delay: 117.413 ms

Loss rate: 4.59%

Run 9: Report of PCC-Allegro — Data Link

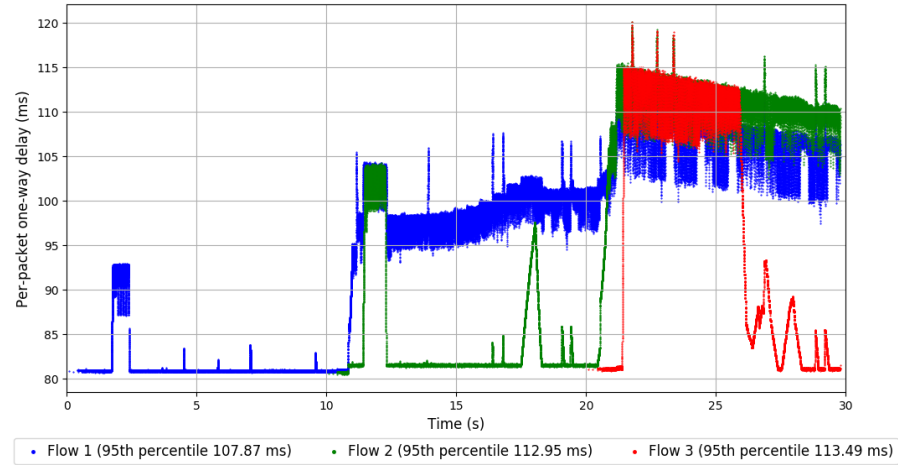
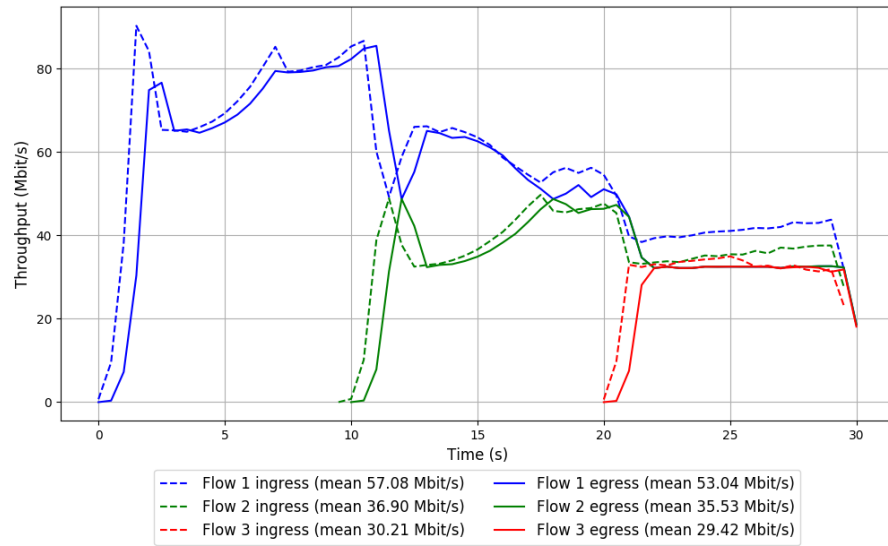


Run 10: Statistics of PCC-Allegro

Start at: 2018-08-10 04:31:25
End at: 2018-08-10 04:31:55
Local clock offset: -3.817 ms
Remote clock offset: -0.225 ms

Below is generated by plot.py at 2018-08-10 05:04:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.22 Mbit/s
95th percentile per-packet one-way delay: 111.900 ms
Loss rate: 6.42%
-- Flow 1:
Average throughput: 53.04 Mbit/s
95th percentile per-packet one-way delay: 107.869 ms
Loss rate: 7.62%
-- Flow 2:
Average throughput: 35.53 Mbit/s
95th percentile per-packet one-way delay: 112.946 ms
Loss rate: 4.55%
-- Flow 3:
Average throughput: 29.42 Mbit/s
95th percentile per-packet one-way delay: 113.488 ms
Loss rate: 4.21%

Run 10: Report of PCC-Allegro — Data Link

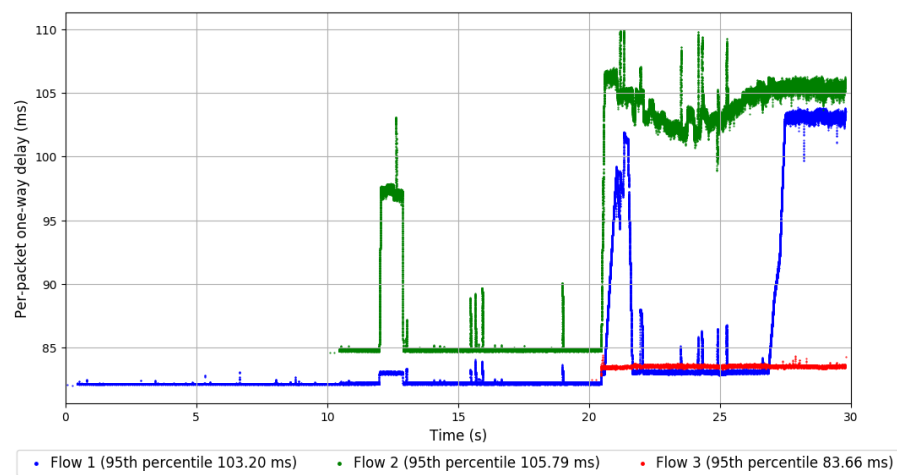
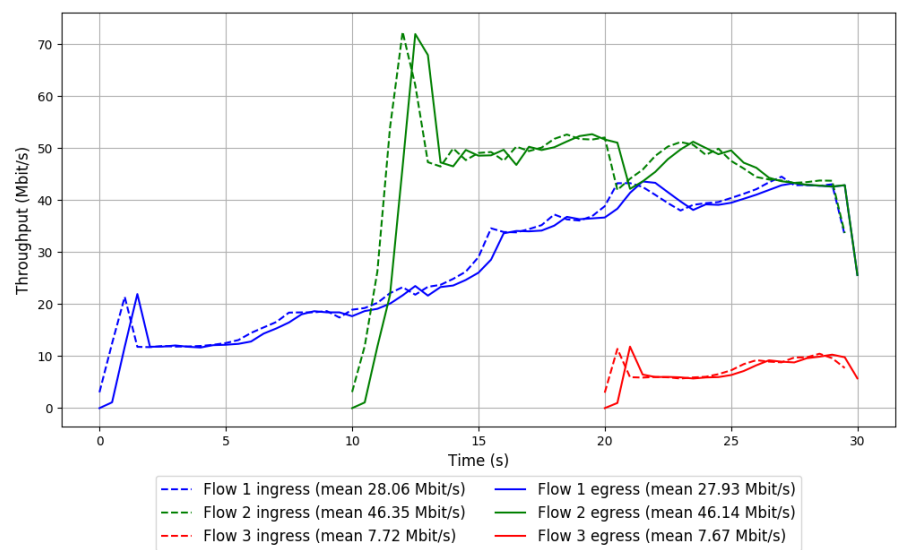


```
Run 1: Statistics of PCC-Expr

Start at: 2018-08-10 01:36:09
End at: 2018-08-10 01:36:39
Local clock offset: -2.099 ms
Remote clock offset: 2.809 ms

# Below is generated by plot.py at 2018-08-10 05:04:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 61.03 Mbit/s
95th percentile per-packet one-way delay: 105.501 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 27.93 Mbit/s
95th percentile per-packet one-way delay: 103.205 ms
Loss rate: 1.02%
-- Flow 2:
Average throughput: 46.14 Mbit/s
95th percentile per-packet one-way delay: 105.788 ms
Loss rate: 1.33%
-- Flow 3:
Average throughput: 7.67 Mbit/s
95th percentile per-packet one-way delay: 83.658 ms
Loss rate: 2.34%
```


Run 1: Report of PCC-Expr — Data Link

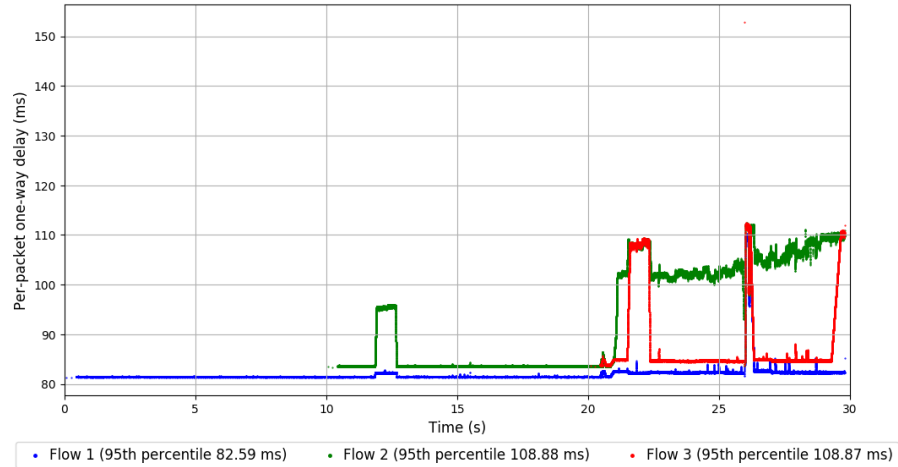
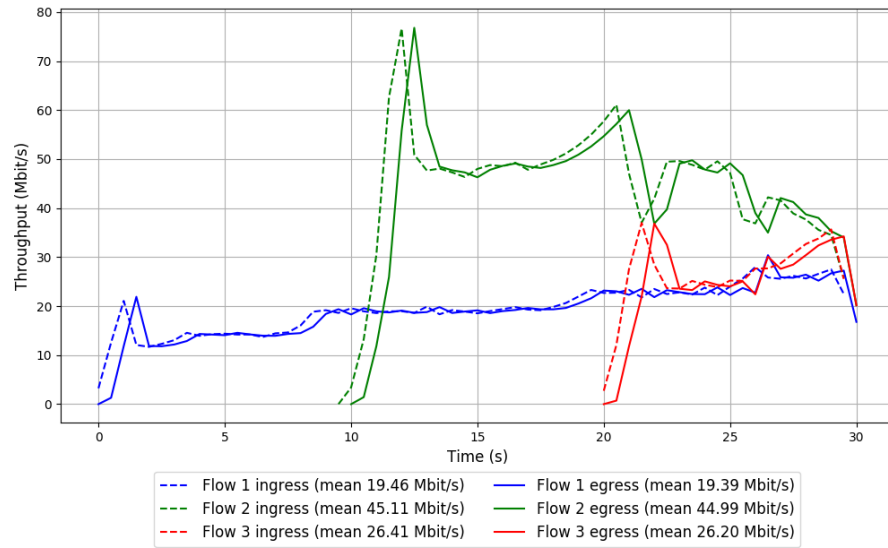


```
Run 2: Statistics of PCC-Expr

Start at: 2018-08-10 01:57:22
End at: 2018-08-10 01:57:52
Local clock offset: -2.902 ms
Remote clock offset: 3.025 ms

# Below is generated by plot.py at 2018-08-10 05:04:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 57.79 Mbit/s
95th percentile per-packet one-way delay: 108.292 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 19.39 Mbit/s
95th percentile per-packet one-way delay: 82.594 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 44.99 Mbit/s
95th percentile per-packet one-way delay: 108.883 ms
Loss rate: 1.15%
-- Flow 3:
Average throughput: 26.20 Mbit/s
95th percentile per-packet one-way delay: 108.873 ms
Loss rate: 2.46%
```

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-08-10 02:18:23

End at: 2018-08-10 02:18:53

Local clock offset: -3.035 ms

Remote clock offset: 5.816 ms

Below is generated by plot.py at 2018-08-10 05:04:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 44.52 Mbit/s

95th percentile per-packet one-way delay: 81.376 ms

Loss rate: 2.27%

-- Flow 1:

Average throughput: 22.02 Mbit/s

95th percentile per-packet one-way delay: 79.282 ms

Loss rate: 2.20%

-- Flow 2:

Average throughput: 28.18 Mbit/s

95th percentile per-packet one-way delay: 79.300 ms

Loss rate: 1.99%

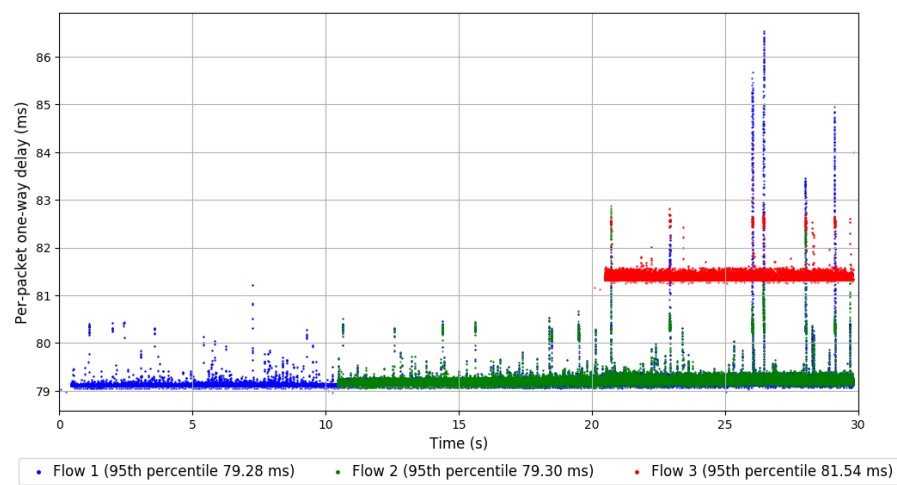
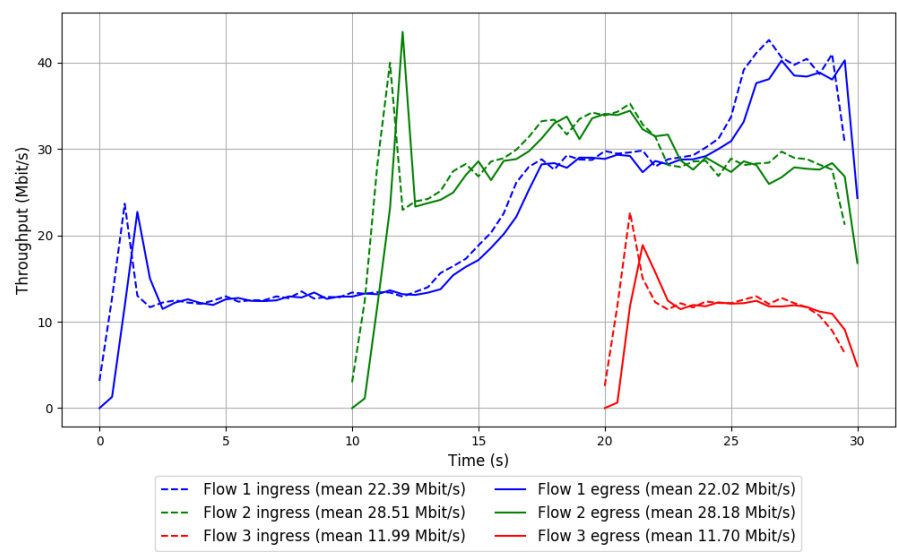
-- Flow 3:

Average throughput: 11.70 Mbit/s

95th percentile per-packet one-way delay: 81.537 ms

Loss rate: 4.07%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-08-10 02:39:27

End at: 2018-08-10 02:39:57

Local clock offset: -3.564 ms

Remote clock offset: 6.149 ms

Below is generated by plot.py at 2018-08-10 05:05:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.78 Mbit/s

95th percentile per-packet one-way delay: 93.800 ms

Loss rate: 3.67%

-- Flow 1:

Average throughput: 70.80 Mbit/s

95th percentile per-packet one-way delay: 93.847 ms

Loss rate: 3.11%

-- Flow 2:

Average throughput: 16.93 Mbit/s

95th percentile per-packet one-way delay: 83.075 ms

Loss rate: 6.01%

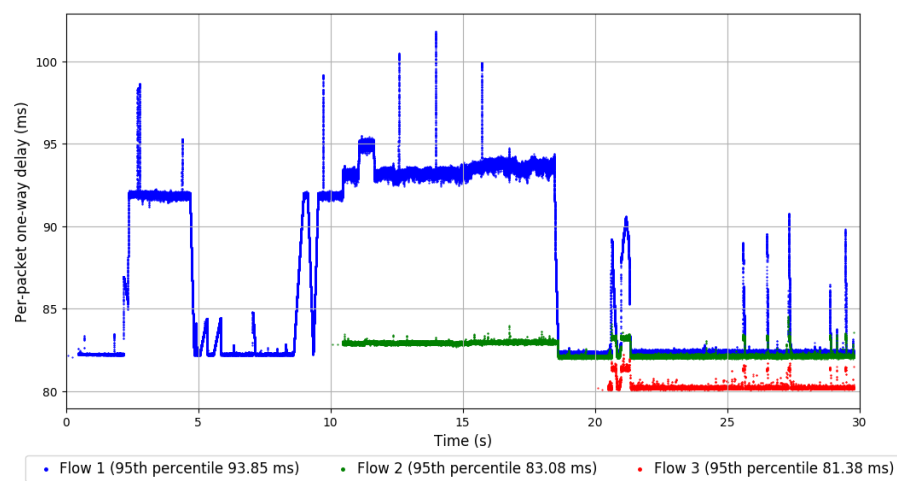
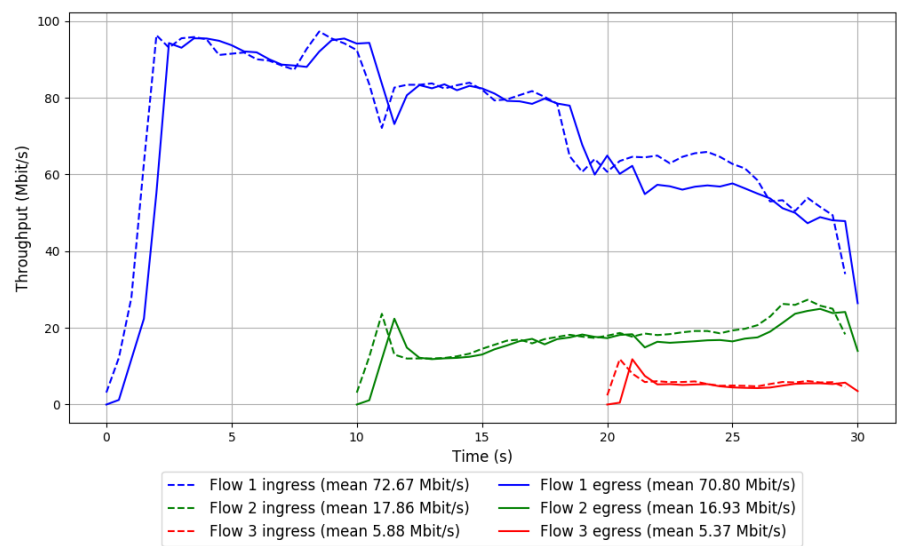
-- Flow 3:

Average throughput: 5.37 Mbit/s

95th percentile per-packet one-way delay: 81.377 ms

Loss rate: 10.16%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-08-10 03:00:32

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

Local clock offset: -3.237 ms

Remote clock offset: 9.448 ms

Below is generated by plot.py at 2018-08-10 05:05:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.34 Mbit/s

95th percentile per-packet one-way delay: 105.594 ms

Loss rate: 1.00%

-- Flow 1:

Average throughput: 53.86 Mbit/s

95th percentile per-packet one-way delay: 102.043 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 39.61 Mbit/s

95th percentile per-packet one-way delay: 107.296 ms

Loss rate: 1.30%

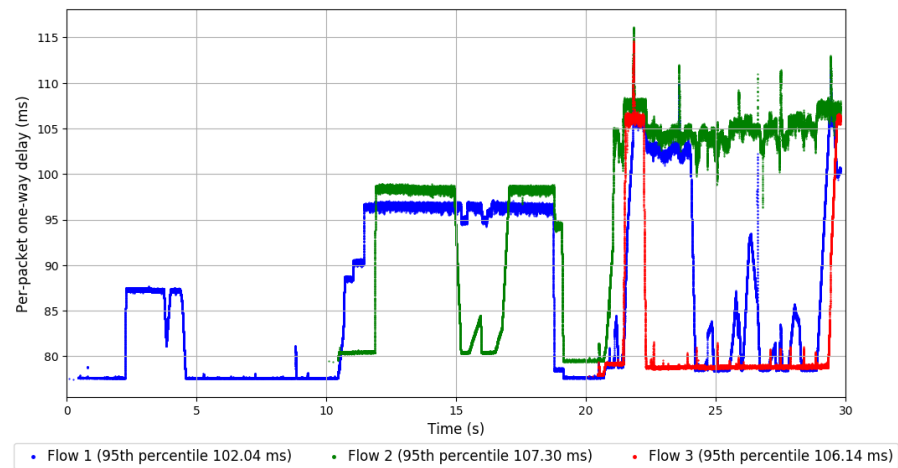
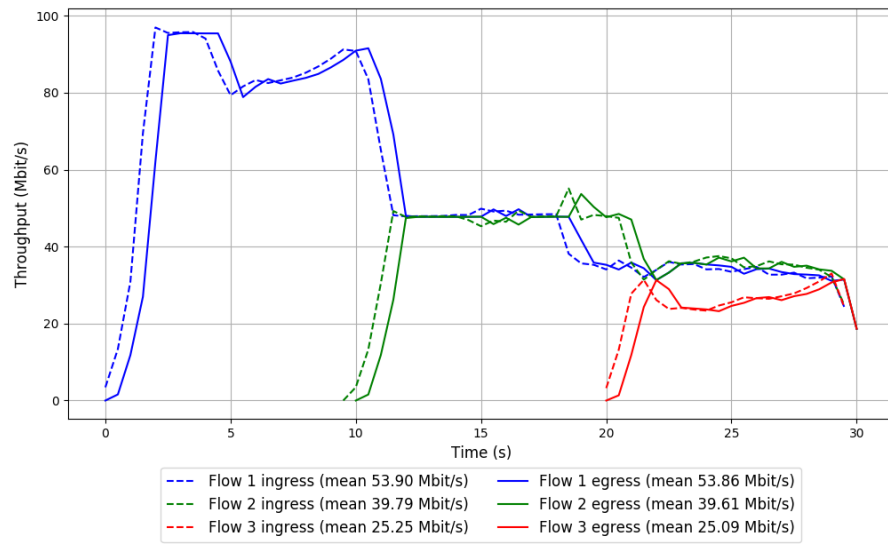
-- Flow 3:

Average throughput: 25.09 Mbit/s

95th percentile per-packet one-way delay: 106.136 ms

Loss rate: 2.46%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-08-10 03:21:46

End at: 2018-08-10 03:22:16

Local clock offset: -4.418 ms

Remote clock offset: 3.261 ms

Below is generated by plot.py at 2018-08-10 05:05:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 54.06 Mbit/s

95th percentile per-packet one-way delay: 84.502 ms

Loss rate: 4.15%

-- Flow 1:

Average throughput: 21.58 Mbit/s

95th percentile per-packet one-way delay: 84.490 ms

Loss rate: 3.12%

-- Flow 2:

Average throughput: 45.59 Mbit/s

95th percentile per-packet one-way delay: 91.202 ms

Loss rate: 4.68%

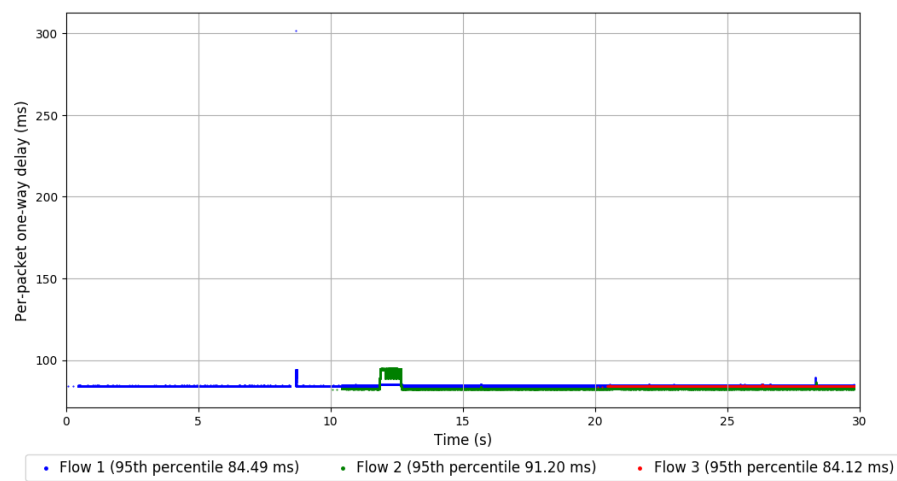
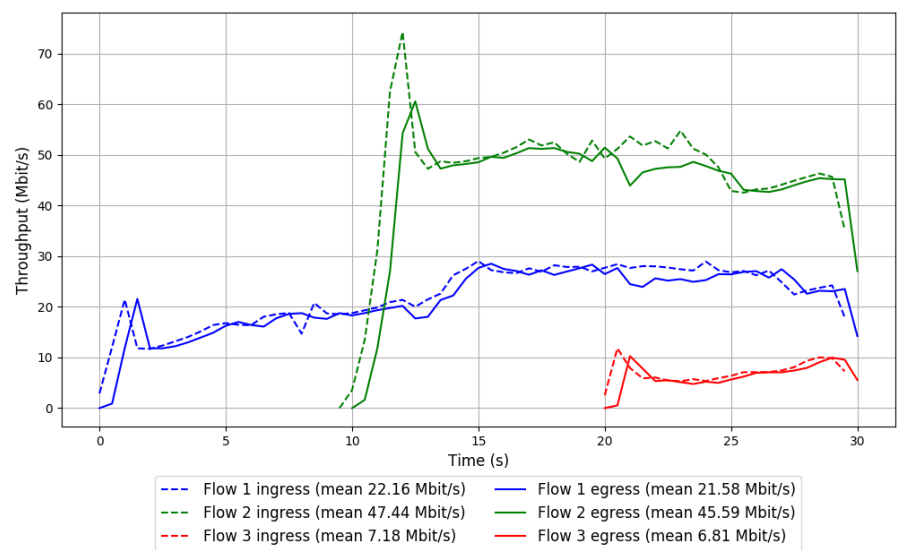
-- Flow 3:

Average throughput: 6.81 Mbit/s

95th percentile per-packet one-way delay: 84.117 ms

Loss rate: 6.83%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-08-10 03:42:53

End at: 2018-08-10 03:43:23

Local clock offset: -5.087 ms

Remote clock offset: 7.559 ms

Below is generated by plot.py at 2018-08-10 05:05:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 35.70 Mbit/s

95th percentile per-packet one-way delay: 91.105 ms

Loss rate: 1.57%

-- Flow 1:

Average throughput: 11.49 Mbit/s

95th percentile per-packet one-way delay: 79.922 ms

Loss rate: 1.14%

-- Flow 2:

Average throughput: 12.59 Mbit/s

95th percentile per-packet one-way delay: 77.729 ms

Loss rate: 1.23%

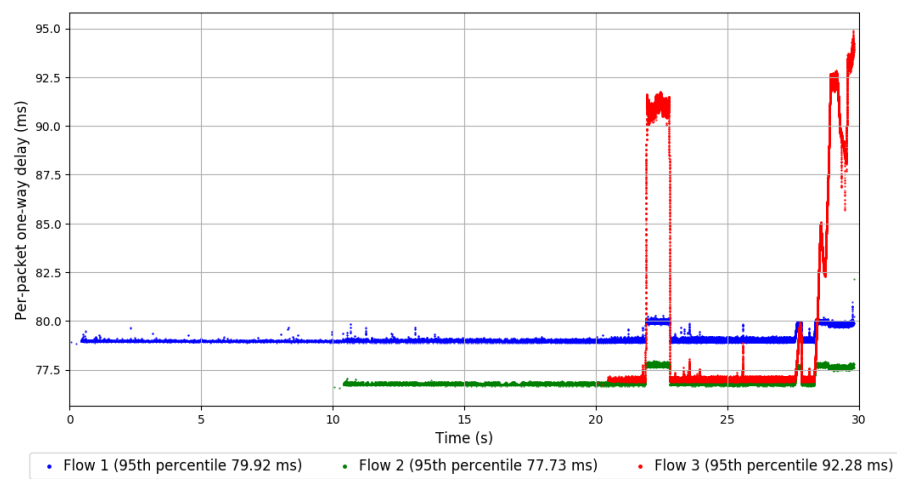
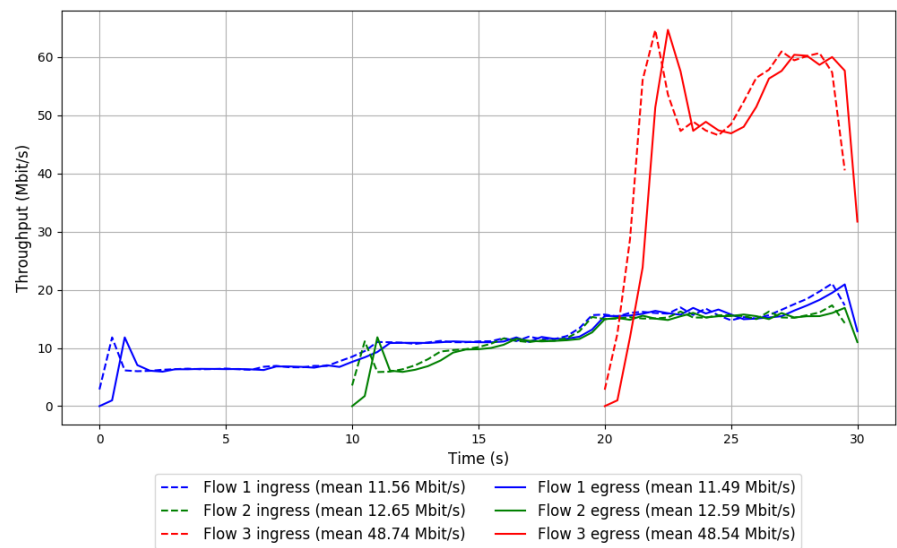
-- Flow 3:

Average throughput: 48.54 Mbit/s

95th percentile per-packet one-way delay: 92.283 ms

Loss rate: 2.06%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-08-10 04:04:01

End at: 2018-08-10 04:04:31

Local clock offset: -2.343 ms

Remote clock offset: 1.895 ms

Below is generated by plot.py at 2018-08-10 05:06:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.07 Mbit/s

95th percentile per-packet one-way delay: 113.106 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 54.49 Mbit/s

95th percentile per-packet one-way delay: 113.418 ms

Loss rate: 0.88%

-- Flow 2:

Average throughput: 38.91 Mbit/s

95th percentile per-packet one-way delay: 113.016 ms

Loss rate: 0.92%

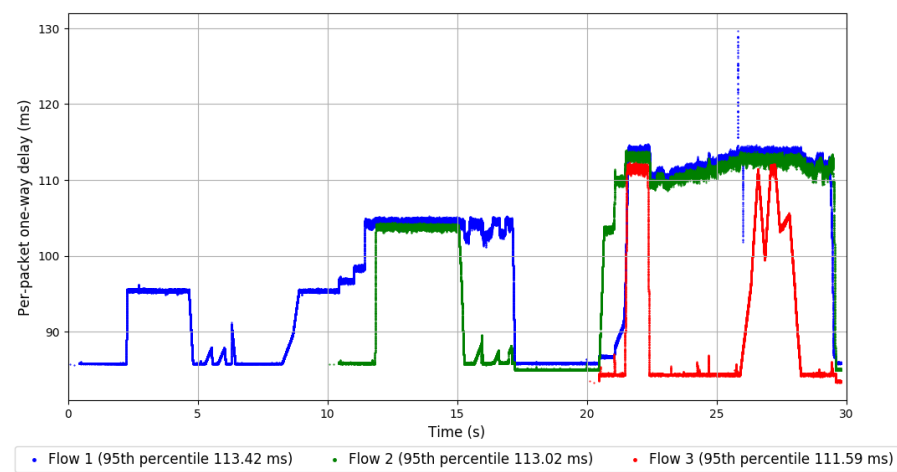
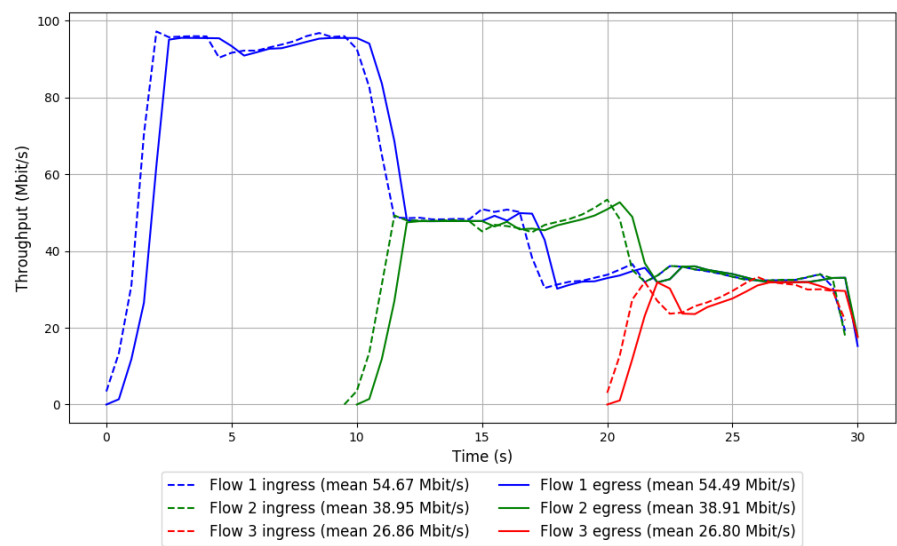
-- Flow 3:

Average throughput: 26.80 Mbit/s

95th percentile per-packet one-way delay: 111.593 ms

Loss rate: 1.89%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-08-10 04:25:11

End at: 2018-08-10 04:25:41

Local clock offset: -3.844 ms

Remote clock offset: 4.202 ms

Below is generated by plot.py at 2018-08-10 05:06:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.79 Mbit/s

95th percentile per-packet one-way delay: 104.978 ms

Loss rate: 0.95%

-- Flow 1:

Average throughput: 52.39 Mbit/s

95th percentile per-packet one-way delay: 104.890 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 39.93 Mbit/s

95th percentile per-packet one-way delay: 104.692 ms

Loss rate: 1.27%

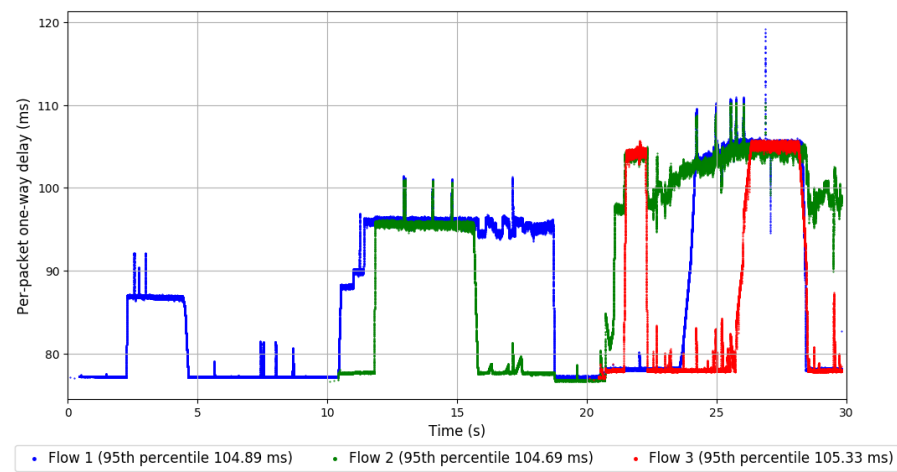
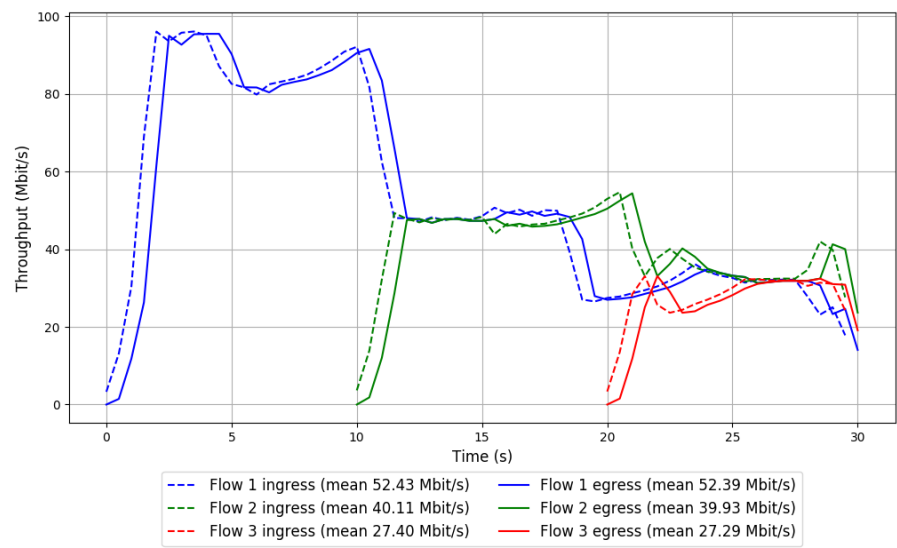
-- Flow 3:

Average throughput: 27.29 Mbit/s

95th percentile per-packet one-way delay: 105.329 ms

Loss rate: 2.03%

Run 9: Report of PCC-Expr — Data Link

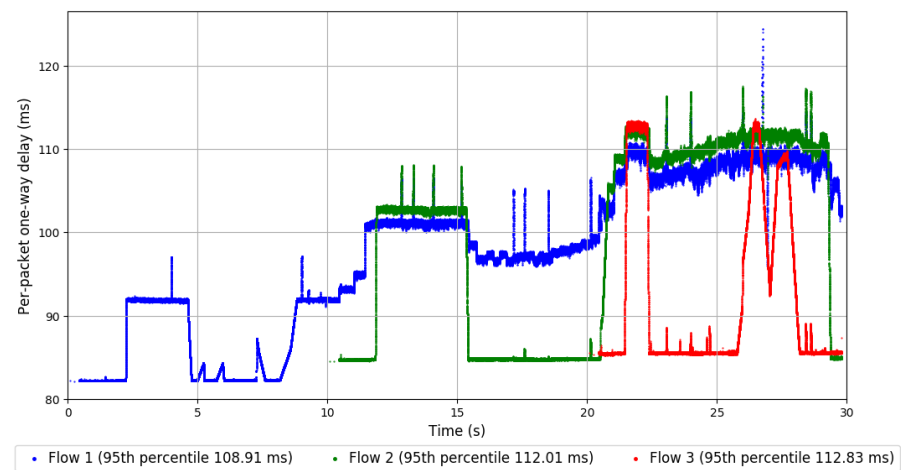
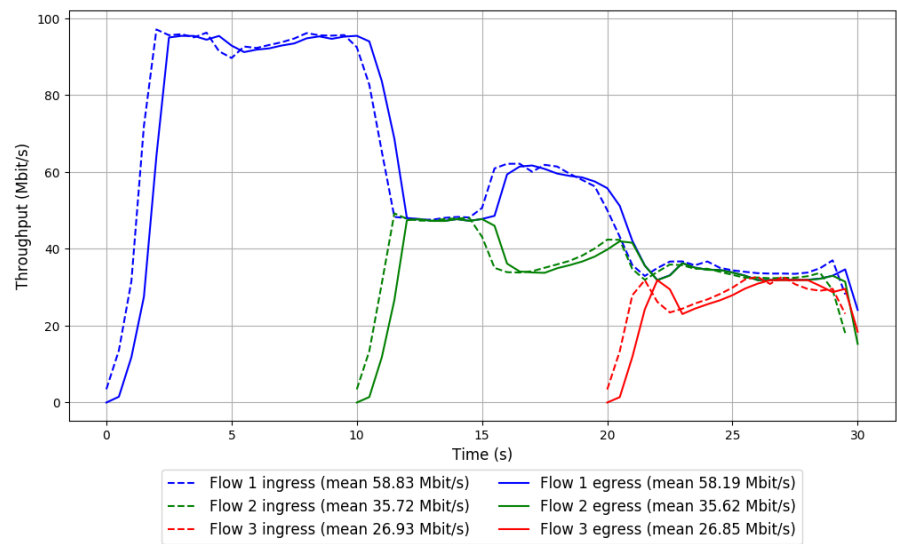


Run 10: Statistics of PCC-Expr

Start at: 2018-08-10 04:46:30
End at: 2018-08-10 04:47:00
Local clock offset: -4.18 ms
Remote clock offset: -2.221 ms

Below is generated by plot.py at 2018-08-10 05:06:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.59 Mbit/s
95th percentile per-packet one-way delay: 111.405 ms
Loss rate: 1.53%
-- Flow 1:
Average throughput: 58.19 Mbit/s
95th percentile per-packet one-way delay: 108.908 ms
Loss rate: 1.63%
-- Flow 2:
Average throughput: 35.62 Mbit/s
95th percentile per-packet one-way delay: 112.010 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 26.85 Mbit/s
95th percentile per-packet one-way delay: 112.829 ms
Loss rate: 1.95%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-08-10 01:27:39

End at: 2018-08-10 01:28:09

Local clock offset: -2.104 ms

Remote clock offset: 2.705 ms

Below is generated by plot.py at 2018-08-10 05:06:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 57.76 Mbit/s

95th percentile per-packet one-way delay: 106.369 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 33.77 Mbit/s

95th percentile per-packet one-way delay: 100.528 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 23.81 Mbit/s

95th percentile per-packet one-way delay: 106.531 ms

Loss rate: 1.14%

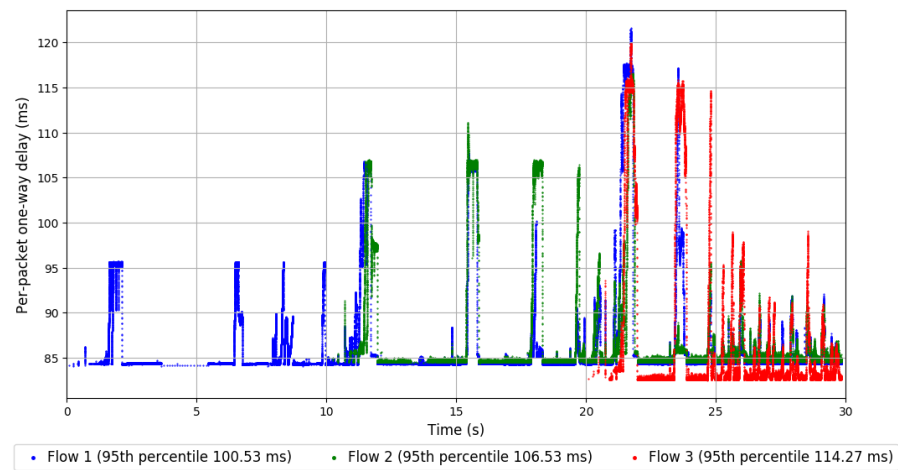
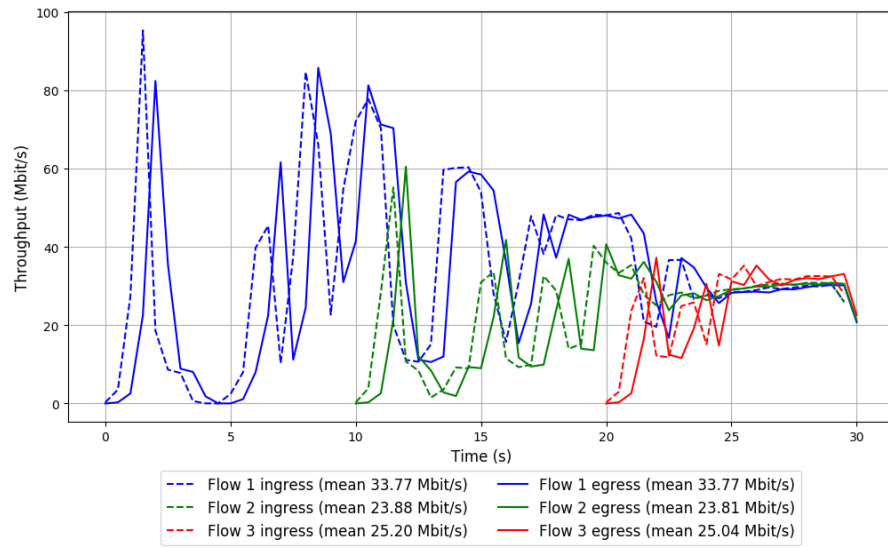
-- Flow 3:

Average throughput: 25.04 Mbit/s

95th percentile per-packet one-way delay: 114.270 ms

Loss rate: 2.30%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-08-10 01:48:45

End at: 2018-08-10 01:49:15

Local clock offset: -2.939 ms

Remote clock offset: 2.839 ms

Below is generated by plot.py at 2018-08-10 05:06:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 57.05 Mbit/s

95th percentile per-packet one-way delay: 103.605 ms

Loss rate: 0.98%

-- Flow 1:

Average throughput: 33.38 Mbit/s

95th percentile per-packet one-way delay: 99.618 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 24.04 Mbit/s

95th percentile per-packet one-way delay: 103.523 ms

Loss rate: 1.15%

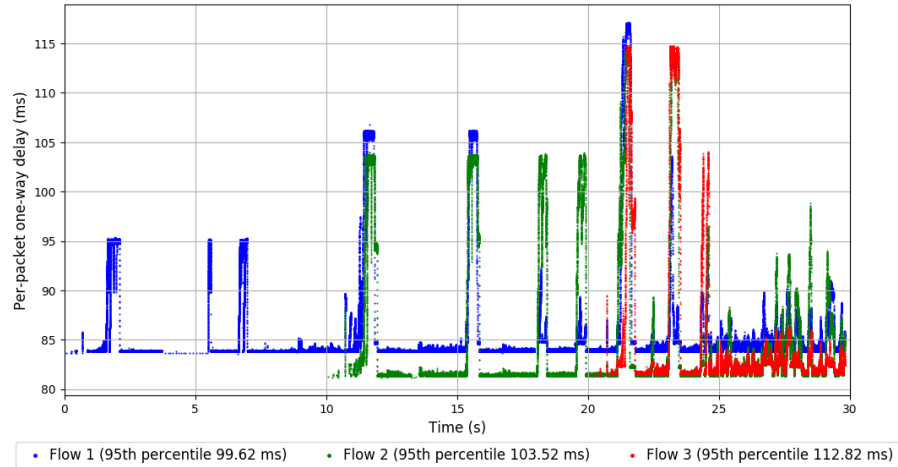
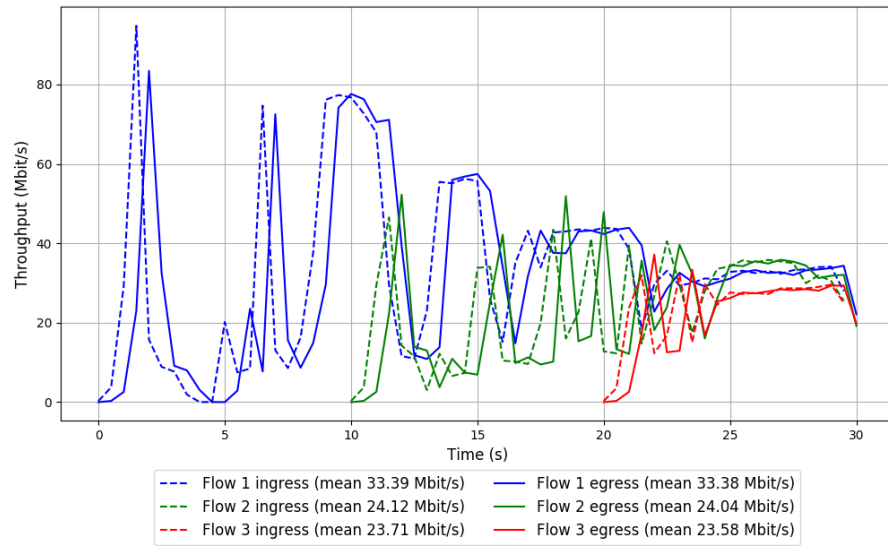
-- Flow 3:

Average throughput: 23.58 Mbit/s

95th percentile per-packet one-way delay: 112.823 ms

Loss rate: 2.21%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-08-10 02:09:50

End at: 2018-08-10 02:10:20

Local clock offset: -2.891 ms

Remote clock offset: 6.847 ms

Below is generated by plot.py at 2018-08-10 05:06:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.61 Mbit/s

95th percentile per-packet one-way delay: 99.868 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 44.48 Mbit/s

95th percentile per-packet one-way delay: 87.683 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 25.21 Mbit/s

95th percentile per-packet one-way delay: 101.939 ms

Loss rate: 1.27%

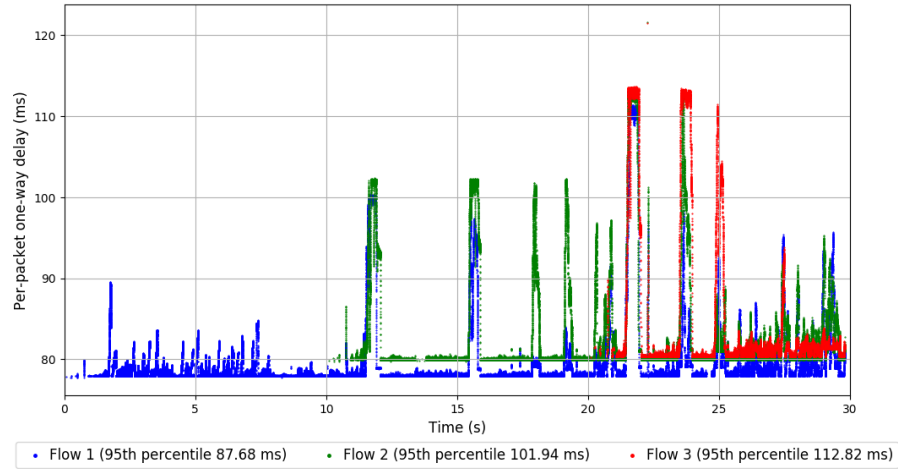
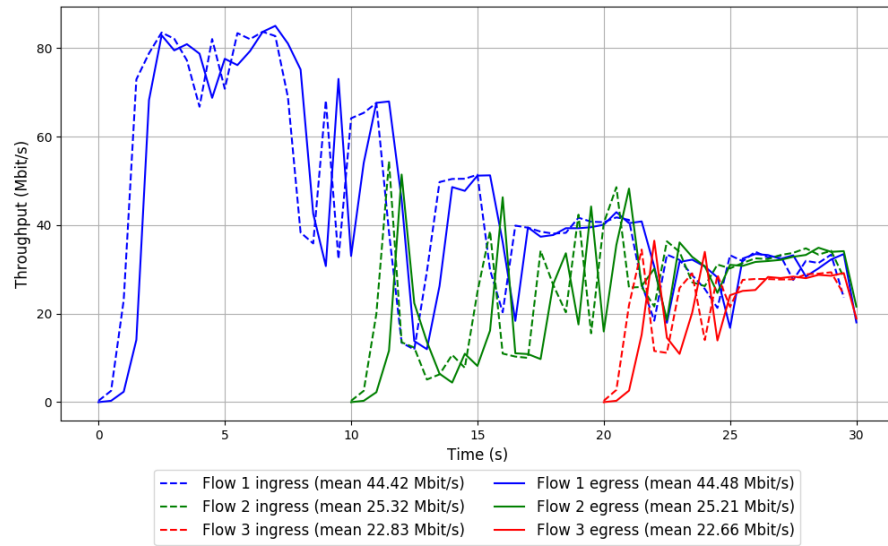
-- Flow 3:

Average throughput: 22.66 Mbit/s

95th percentile per-packet one-way delay: 112.820 ms

Loss rate: 2.40%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-08-10 02:30:57

End at: 2018-08-10 02:31:27

Local clock offset: -2.682 ms

Remote clock offset: 7.051 ms

Below is generated by plot.py at 2018-08-10 05:06:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 56.68 Mbit/s

95th percentile per-packet one-way delay: 103.108 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 38.01 Mbit/s

95th percentile per-packet one-way delay: 92.535 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 21.36 Mbit/s

95th percentile per-packet one-way delay: 101.062 ms

Loss rate: 1.00%

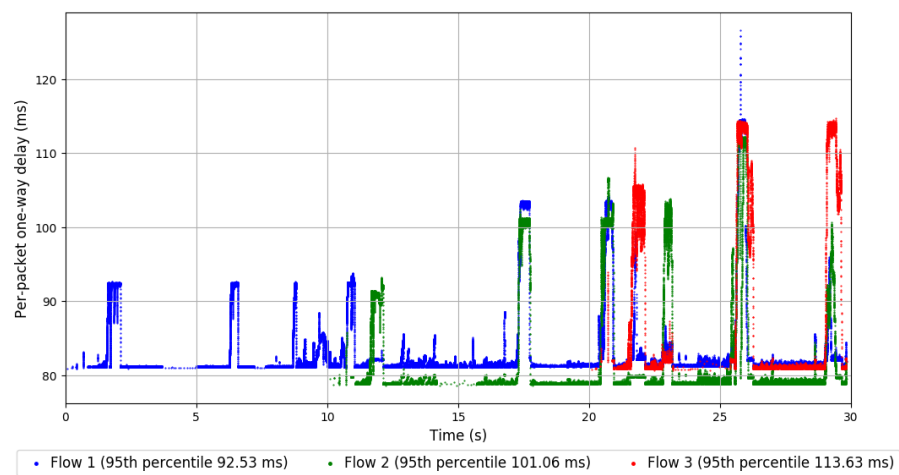
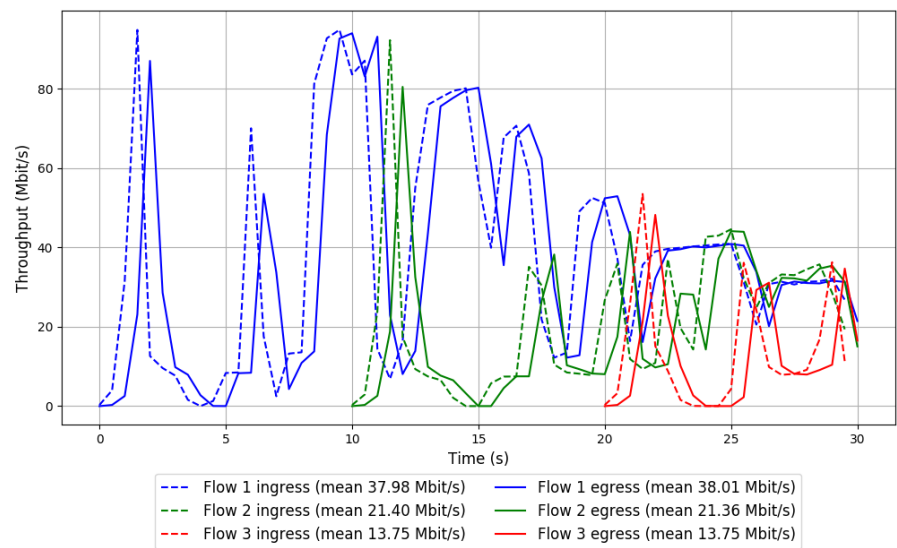
-- Flow 3:

Average throughput: 13.75 Mbit/s

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

Loss rate: 1.71%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-08-10 02:51:59

End at: 2018-08-10 02:52:29

Local clock offset: -4.144 ms

Remote clock offset: 10.11 ms

Below is generated by plot.py at 2018-08-10 05:06:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 52.22 Mbit/s

95th percentile per-packet one-way delay: 100.274 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 32.47 Mbit/s

95th percentile per-packet one-way delay: 99.717 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 22.79 Mbit/s

95th percentile per-packet one-way delay: 98.046 ms

Loss rate: 1.29%

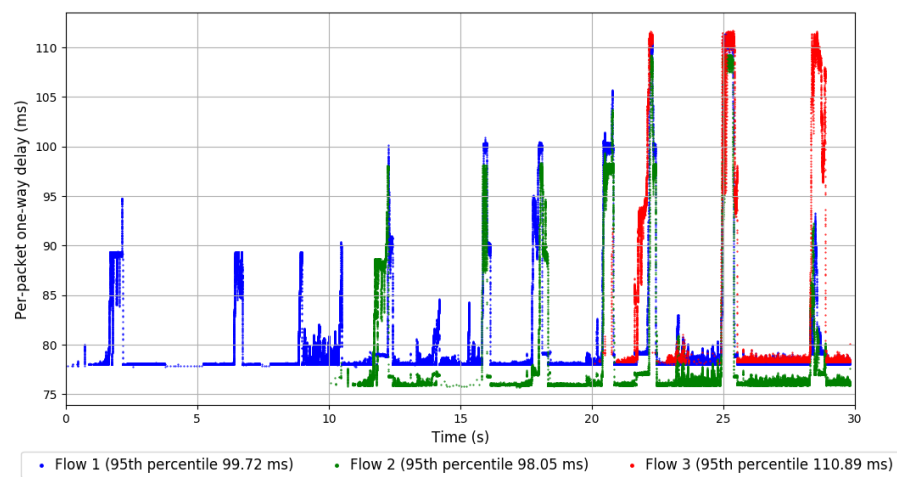
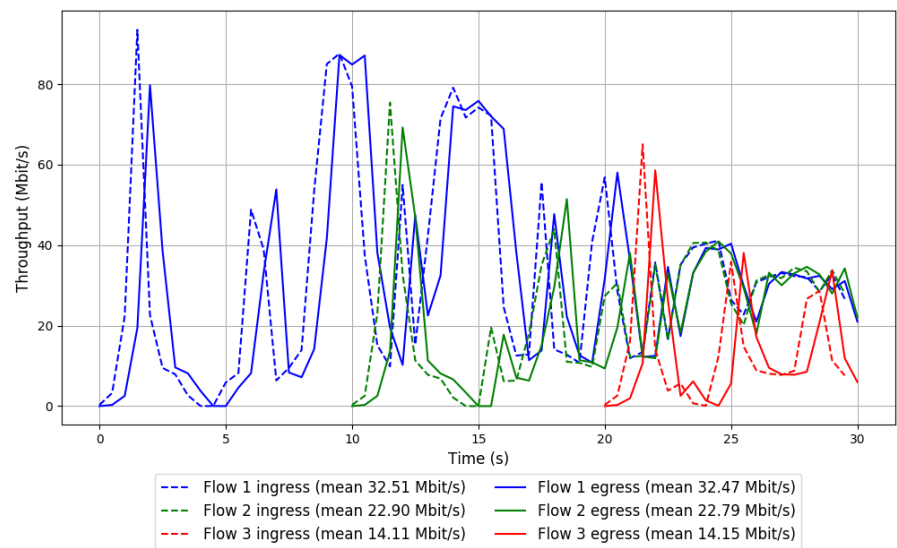
-- Flow 3:

Average throughput: 14.15 Mbit/s

95th percentile per-packet one-way delay: 110.892 ms

Loss rate: 1.38%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-08-10 03:13:15

End at: 2018-08-10 03:13:45

Local clock offset: -3.942 ms

Remote clock offset: 3.555 ms

Below is generated by plot.py at 2018-08-10 05:06:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 50.23 Mbit/s

95th percentile per-packet one-way delay: 105.506 ms

Loss rate: 1.25%

-- Flow 1:

Average throughput: 29.46 Mbit/s

95th percentile per-packet one-way delay: 101.793 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 24.28 Mbit/s

95th percentile per-packet one-way delay: 103.824 ms

Loss rate: 1.08%

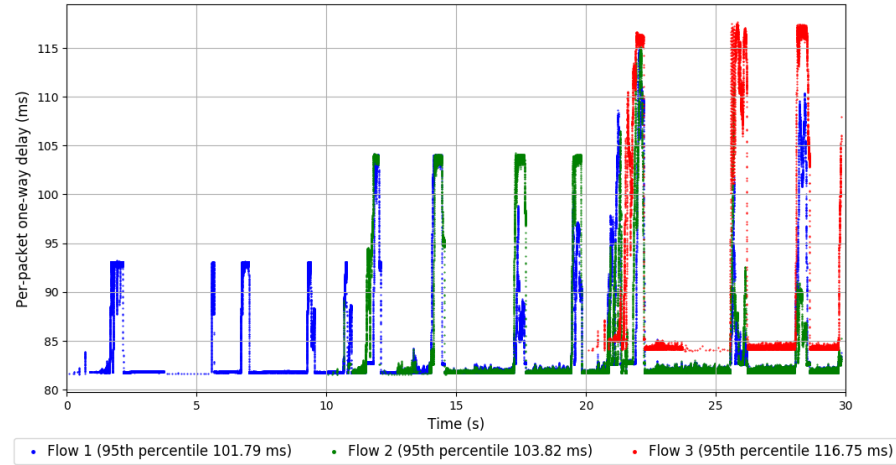
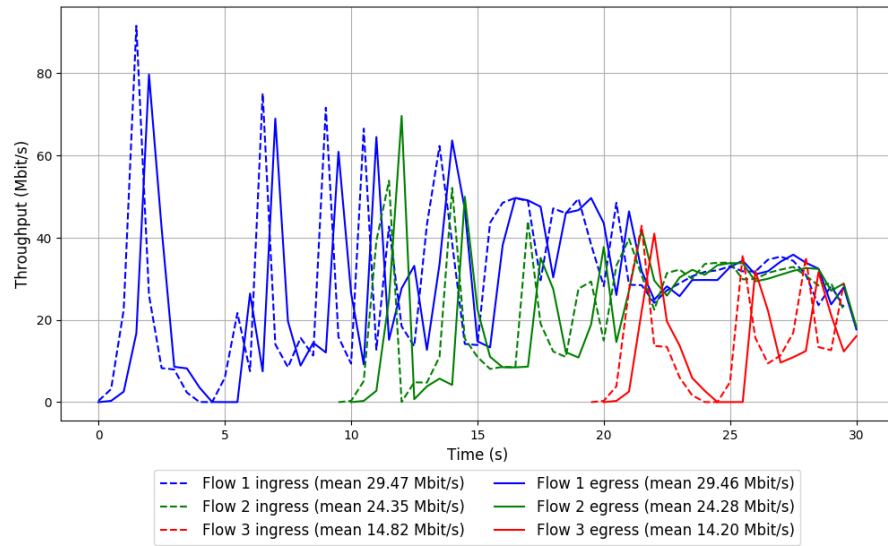
-- Flow 3:

Average throughput: 14.20 Mbit/s

95th percentile per-packet one-way delay: 116.748 ms

Loss rate: 5.78%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-08-10 03:34:21

End at: 2018-08-10 03:34:51

Local clock offset: -4.115 ms

Remote clock offset: 7.816 ms

Below is generated by plot.py at 2018-08-10 05:06:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 50.53 Mbit/s

95th percentile per-packet one-way delay: 102.643 ms

Loss rate: 1.12%

-- Flow 1:

Average throughput: 27.99 Mbit/s

95th percentile per-packet one-way delay: 99.142 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 22.97 Mbit/s

95th percentile per-packet one-way delay: 111.727 ms

Loss rate: 1.22%

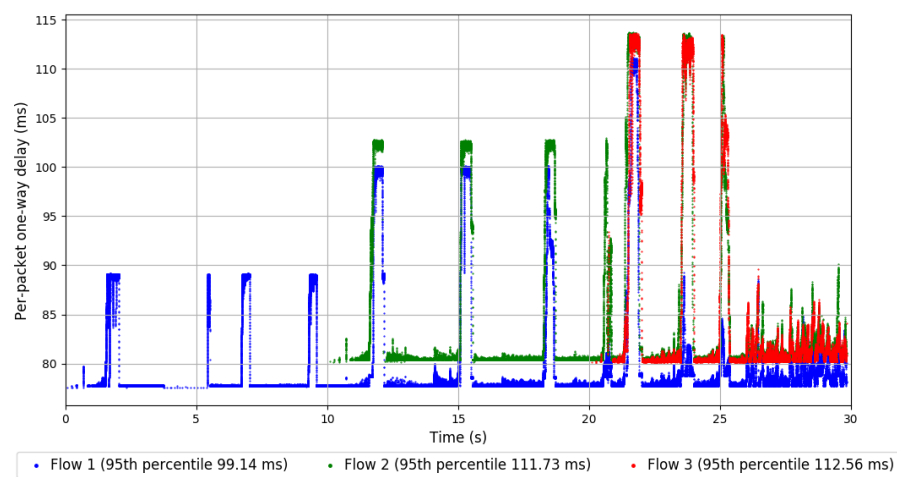
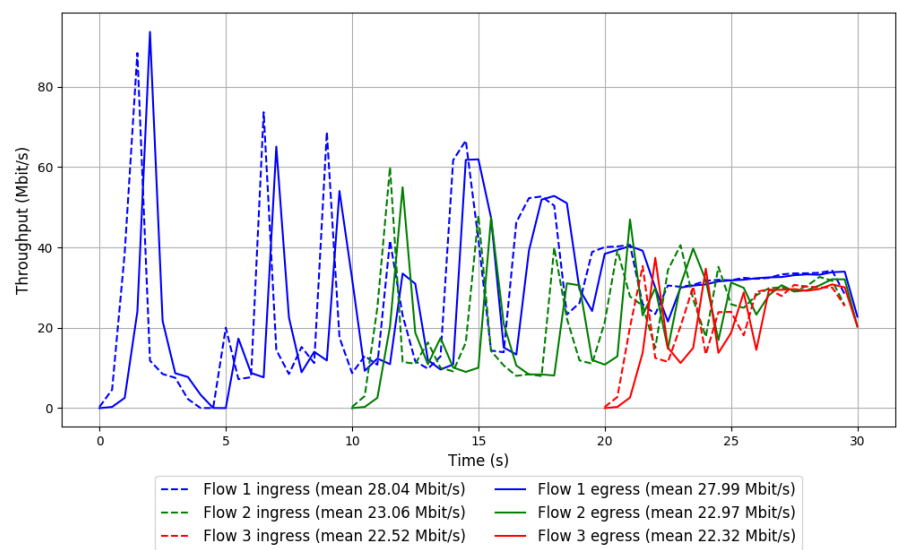
-- Flow 3:

Average throughput: 22.32 Mbit/s

95th percentile per-packet one-way delay: 112.555 ms

Loss rate: 2.49%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-08-10 03:55:27

End at: 2018-08-10 03:55:57

Local clock offset: -4.164 ms

Remote clock offset: 3.181 ms

Below is generated by plot.py at 2018-08-10 05:06:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 55.61 Mbit/s

95th percentile per-packet one-way delay: 105.001 ms

Loss rate: 1.00%

-- Flow 1:

Average throughput: 31.00 Mbit/s

95th percentile per-packet one-way delay: 102.193 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 24.28 Mbit/s

95th percentile per-packet one-way delay: 105.337 ms

Loss rate: 1.12%

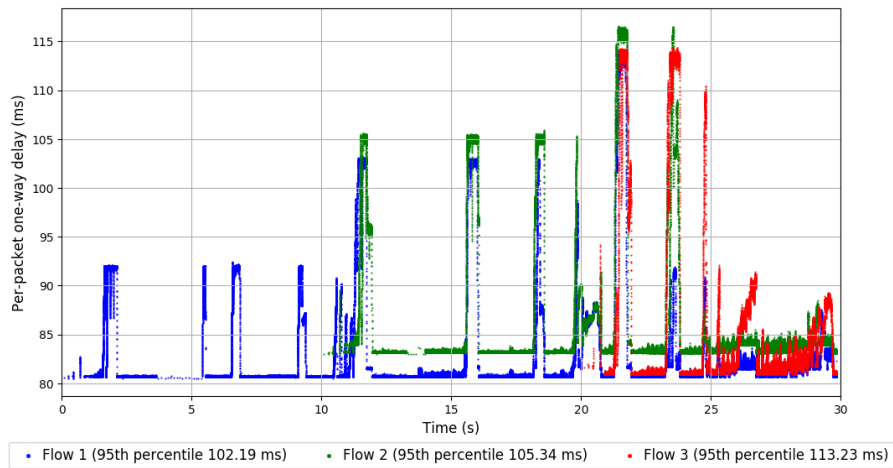
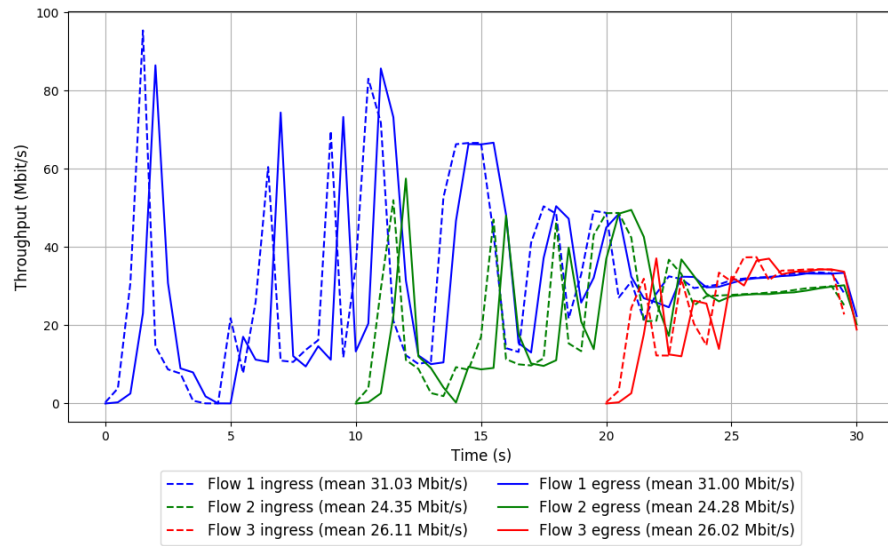
-- Flow 3:

Average throughput: 26.02 Mbit/s

95th percentile per-packet one-way delay: 113.235 ms

Loss rate: 2.01%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-08-10 04:16:39

End at: 2018-08-10 04:17:09

Local clock offset: -2.95 ms

Remote clock offset: 6.687 ms

Below is generated by plot.py at 2018-08-10 05:06:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.24 Mbit/s

95th percentile per-packet one-way delay: 100.346 ms

Loss rate: 1.06%

-- Flow 1:

Average throughput: 29.52 Mbit/s

95th percentile per-packet one-way delay: 93.774 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 24.70 Mbit/s

95th percentile per-packet one-way delay: 100.639 ms

Loss rate: 1.16%

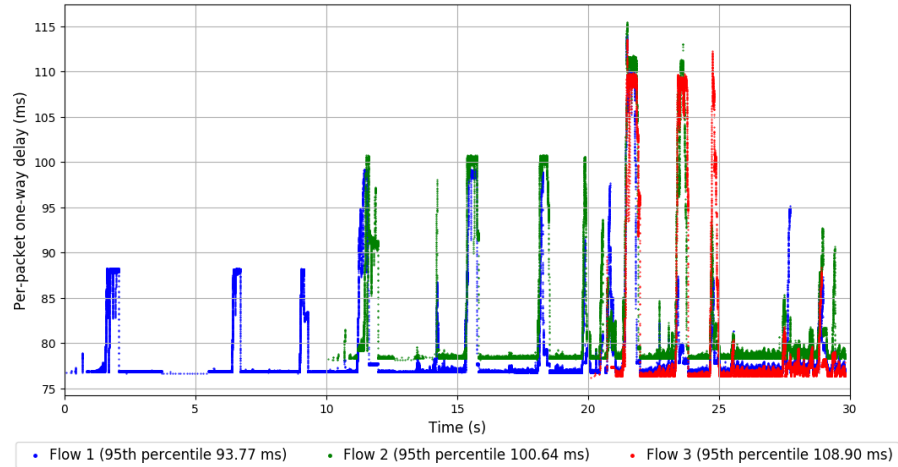
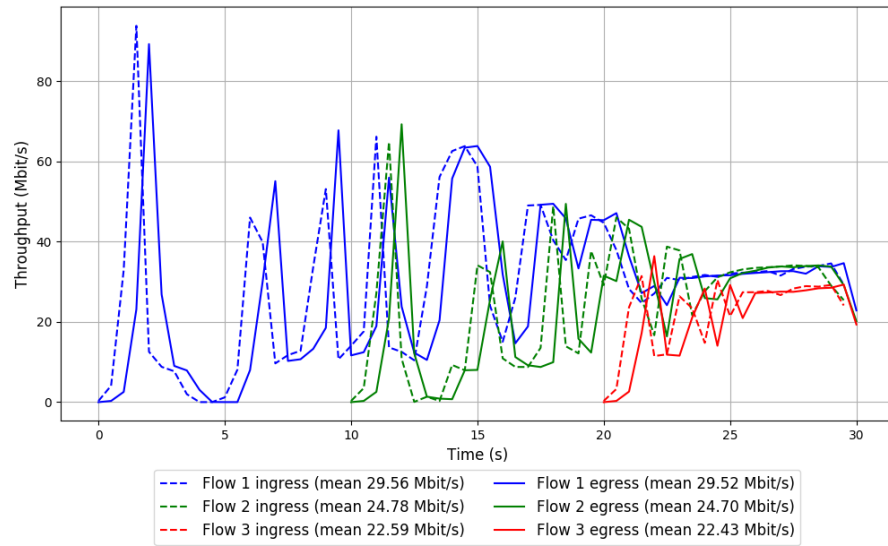
-- Flow 3:

Average throughput: 22.43 Mbit/s

95th percentile per-packet one-way delay: 108.901 ms

Loss rate: 2.34%

Run 9: Report of QUIC Cubic — Data Link

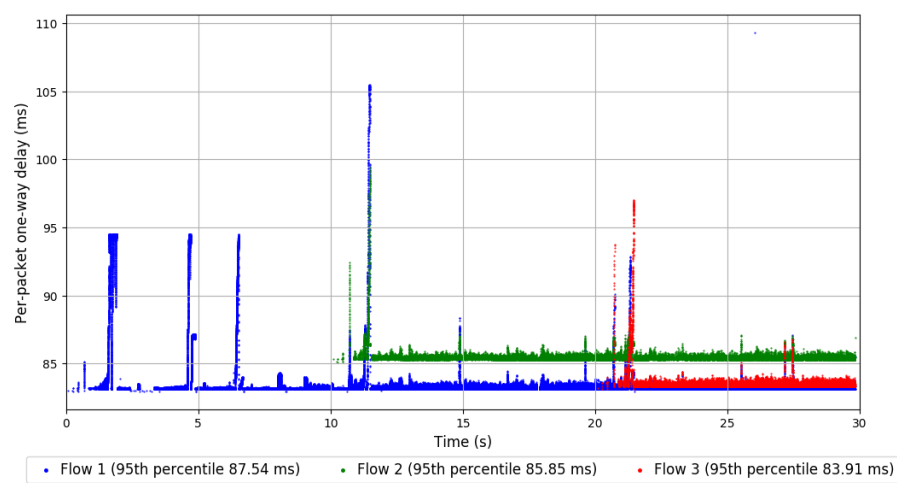
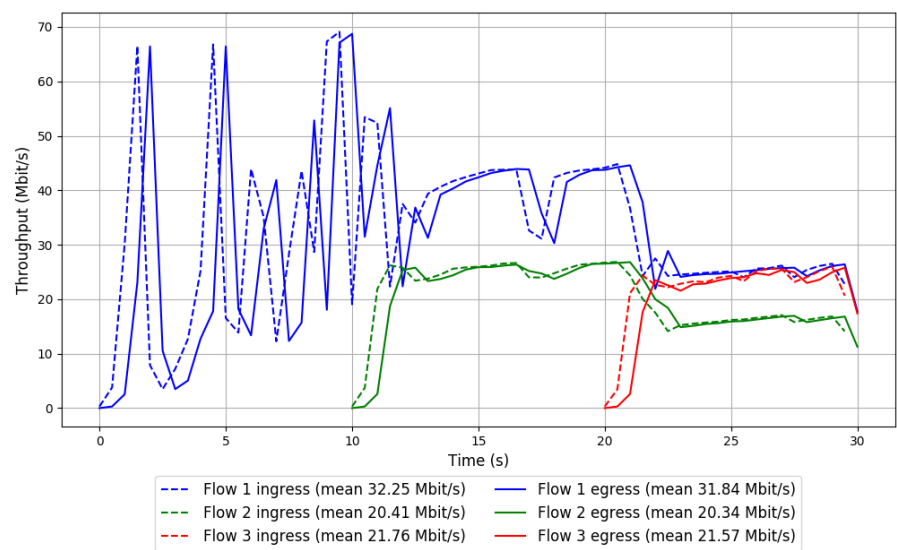


Run 10: Statistics of QUIC Cubic

Start at: 2018-08-10 04:37:55
End at: 2018-08-10 04:38:25
Local clock offset: -2.287 ms
Remote clock offset: -1.625 ms

Below is generated by plot.py at 2018-08-10 05:06:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 52.38 Mbit/s
95th percentile per-packet one-way delay: 86.403 ms
Loss rate: 1.73%
-- Flow 1:
Average throughput: 31.84 Mbit/s
95th percentile per-packet one-way delay: 87.539 ms
Loss rate: 1.79%
-- Flow 2:
Average throughput: 20.34 Mbit/s
95th percentile per-packet one-way delay: 85.847 ms
Loss rate: 1.16%
-- Flow 3:
Average throughput: 21.57 Mbit/s
95th percentile per-packet one-way delay: 83.912 ms
Loss rate: 2.51%

Run 10: Report of QUIC Cubic — Data Link

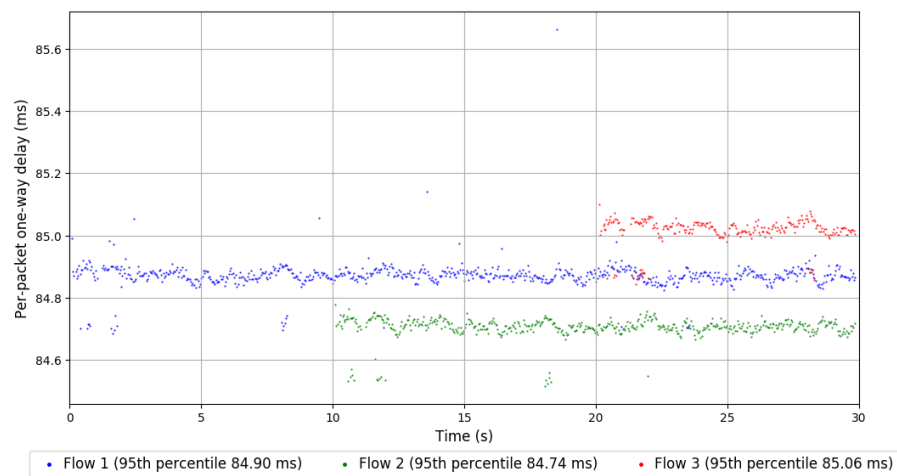
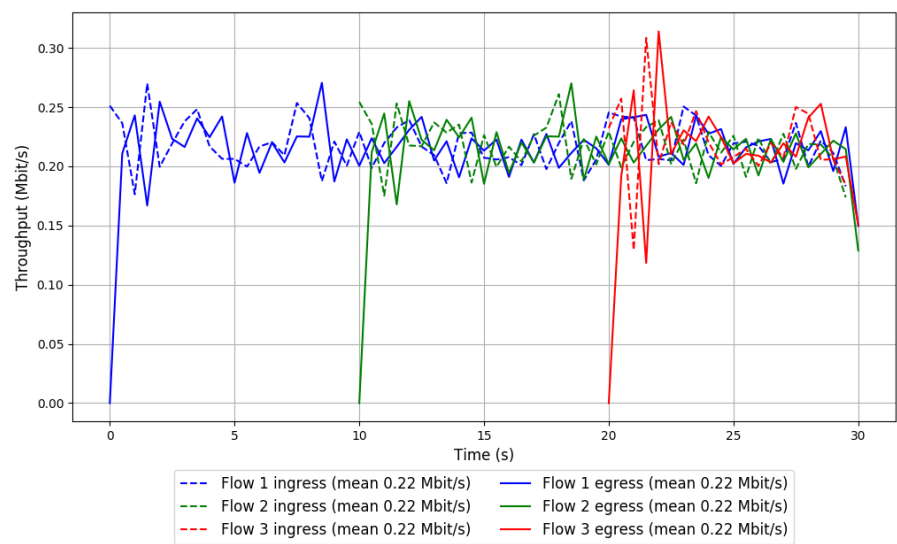


```
Run 1: Statistics of SReAM

Start at: 2018-08-10 01:32:35
End at: 2018-08-10 01:33:05
Local clock offset: -2.87 ms
Remote clock offset: 1.704 ms

# Below is generated by plot.py at 2018-08-10 05:06:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 85.036 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.904 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.740 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.057 ms
Loss rate: 1.50%
```


Run 1: Report of SReAM — Data Link

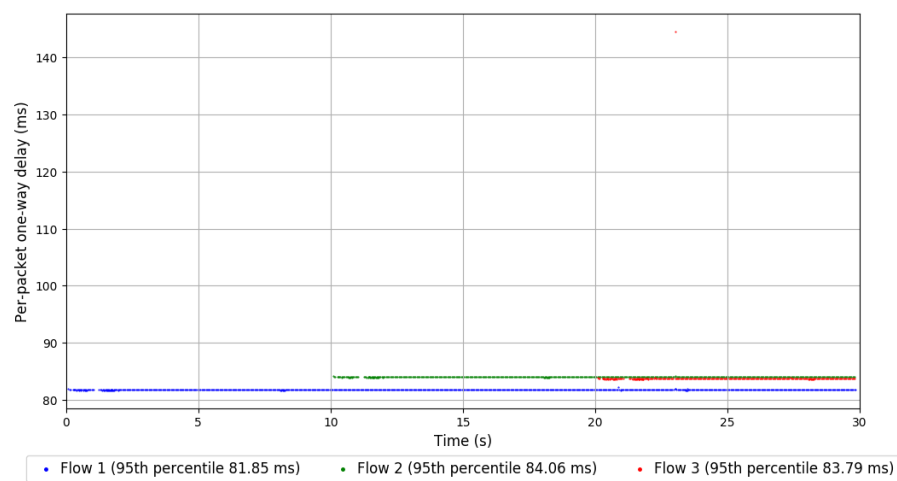
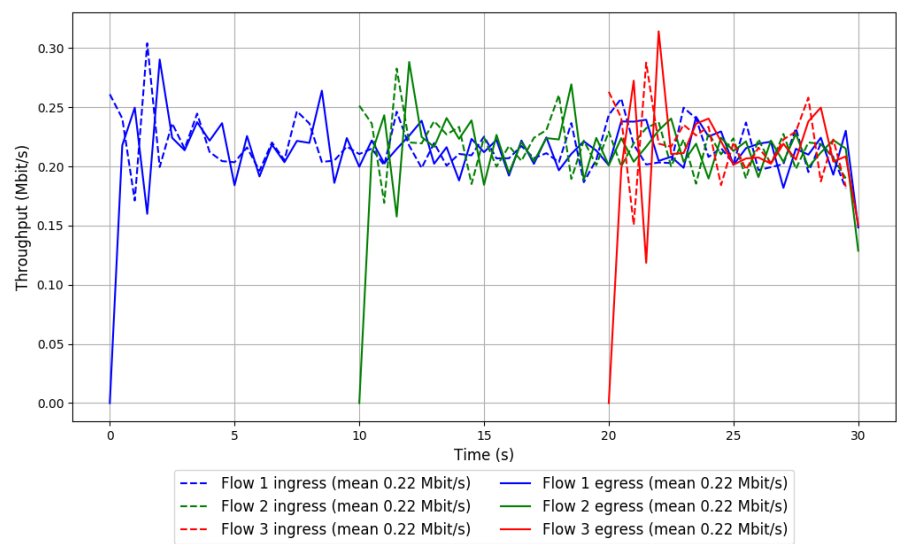


```
Run 2: Statistics of SReAM

Start at: 2018-08-10 01:53:46
End at: 2018-08-10 01:54:16
Local clock offset: -2.876 ms
Remote clock offset: 2.975 ms

# Below is generated by plot.py at 2018-08-10 05:06:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 84.049 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.854 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.059 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.788 ms
Loss rate: 1.84%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-08-10 02:14:47

End at: 2018-08-10 02:15:17

Local clock offset: -3.633 ms

Remote clock offset: 7.984 ms

Below is generated by plot.py at 2018-08-10 05:06:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 77.662 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 76.345 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 76.390 ms

Loss rate: 0.81%

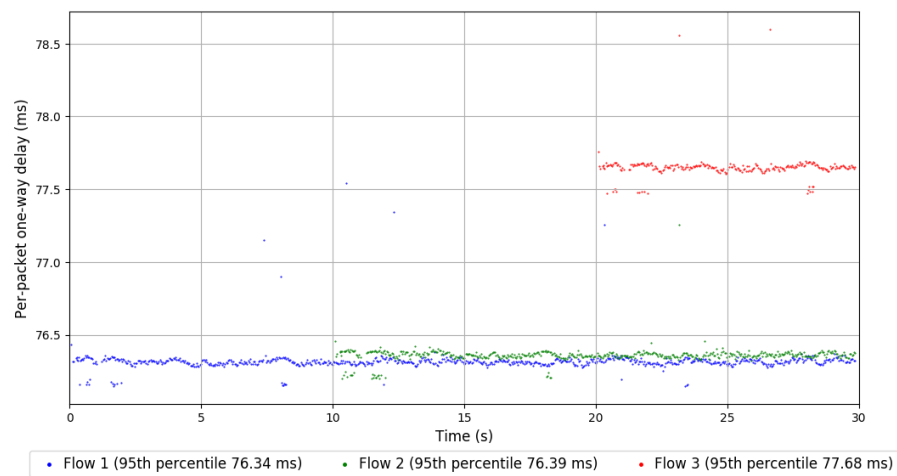
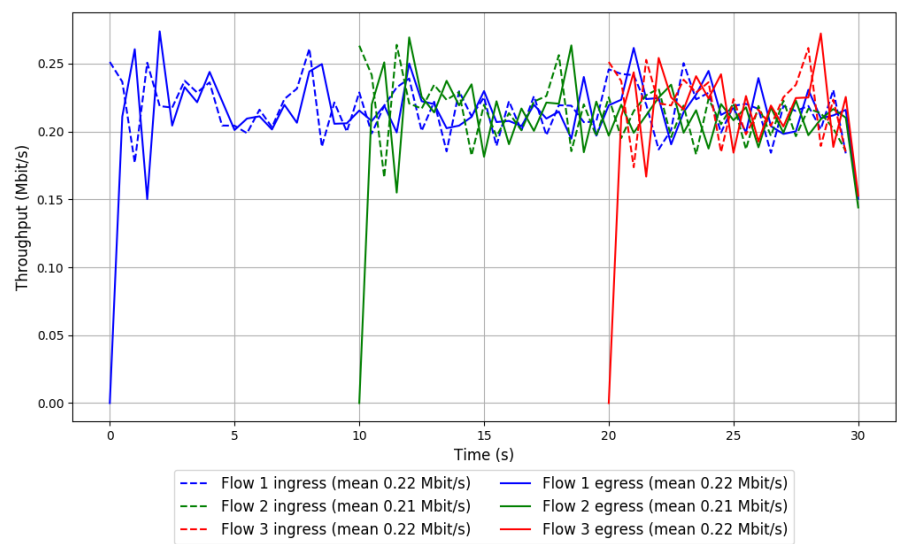
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 77.682 ms

Loss rate: 1.46%

Run 3: Report of SReAM — Data Link

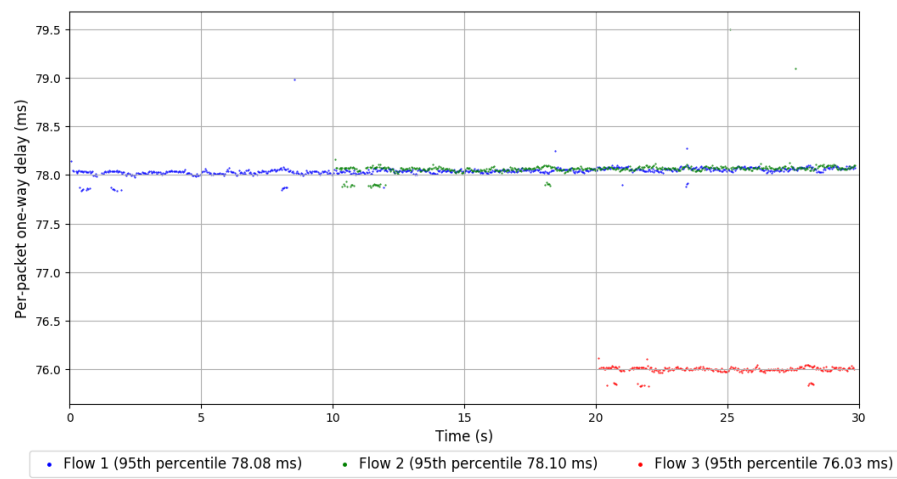
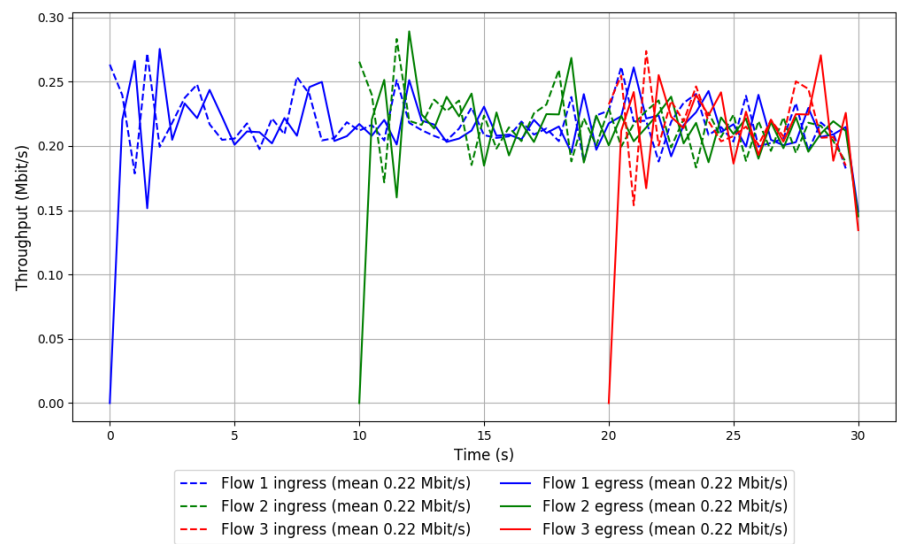


Run 4: Statistics of SReAM

Start at: 2018-08-10 02:35:53
End at: 2018-08-10 02:36:23
Local clock offset: -4.367 ms
Remote clock offset: 9.006 ms

Below is generated by plot.py at 2018-08-10 05:06:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 78.088 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 78.083 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 78.097 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 76.031 ms
Loss rate: 1.51%

Run 4: Report of SCRaM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-08-10 02:56:55

End at: 2018-08-10 02:57:25

Local clock offset: -4.033 ms

Remote clock offset: 9.372 ms

Below is generated by plot.py at 2018-08-10 05:06:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 79.455 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 77.199 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 79.292 ms

Loss rate: 0.84%

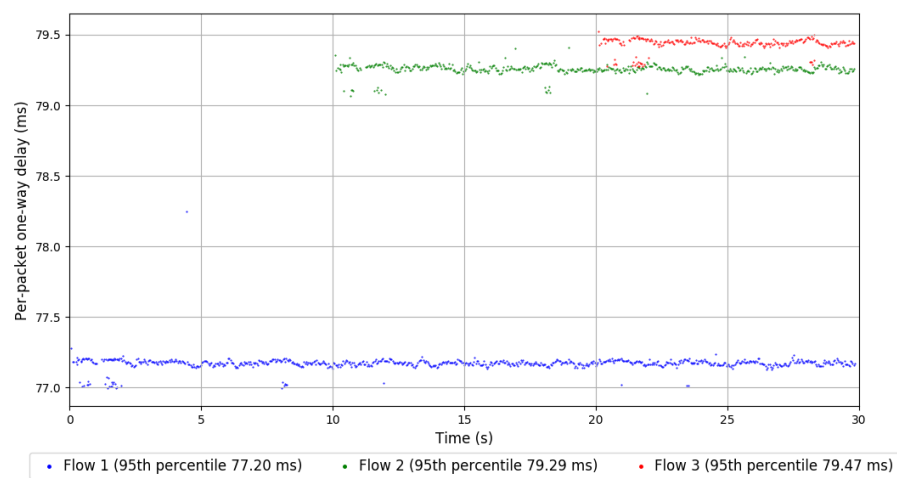
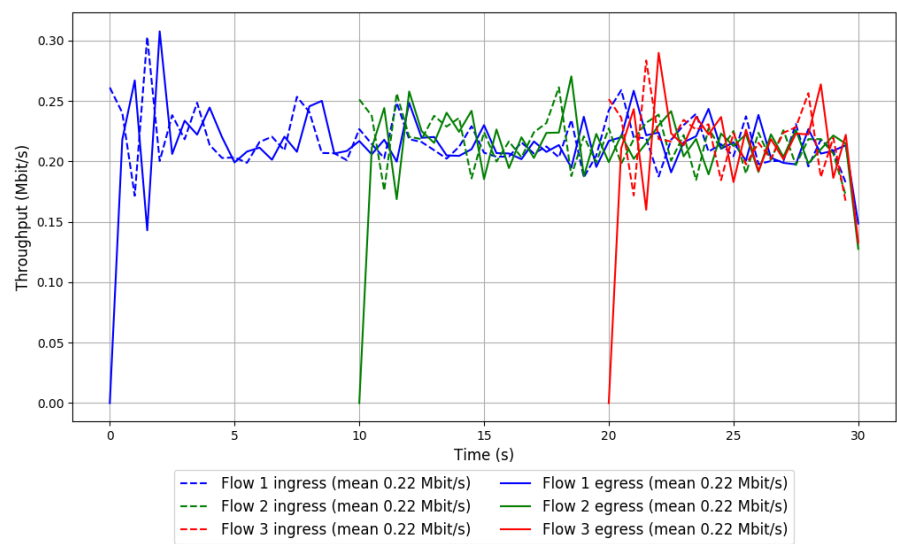
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 79.474 ms

Loss rate: 1.49%

Run 5: Report of SReAM — Data Link

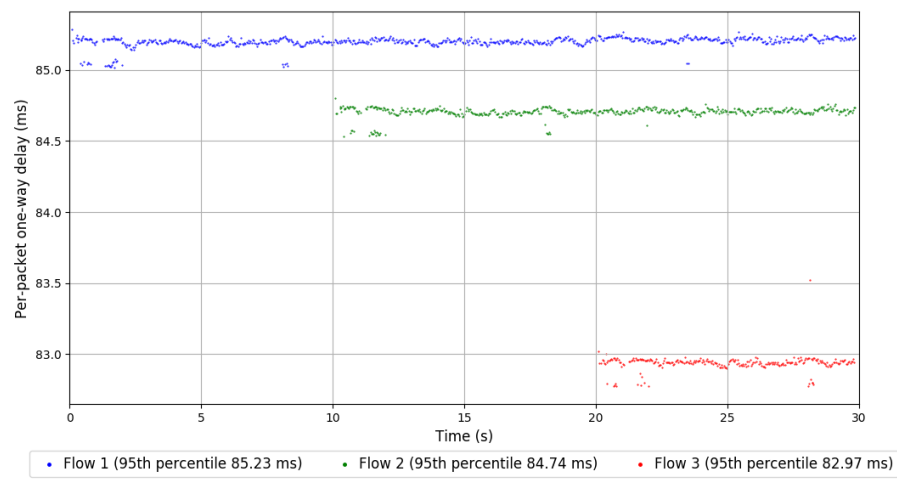
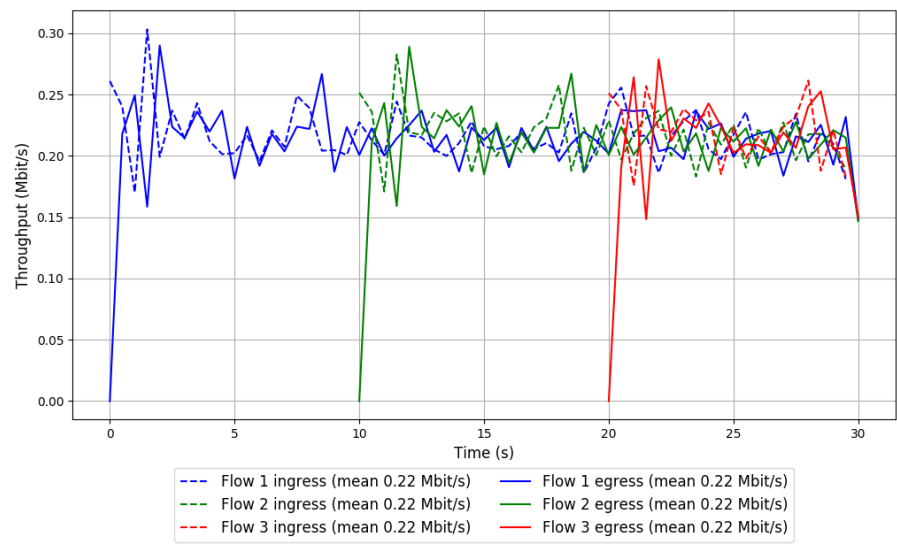


Run 6: Statistics of SReAM

Start at: 2018-08-10 03:18:10
End at: 2018-08-10 03:18:40
Local clock offset: -3.411 ms
Remote clock offset: 3.423 ms

Below is generated by plot.py at 2018-08-10 05:06:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 85.227 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.235 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.739 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.972 ms
Loss rate: 1.84%

Run 6: Report of SReAM — Data Link

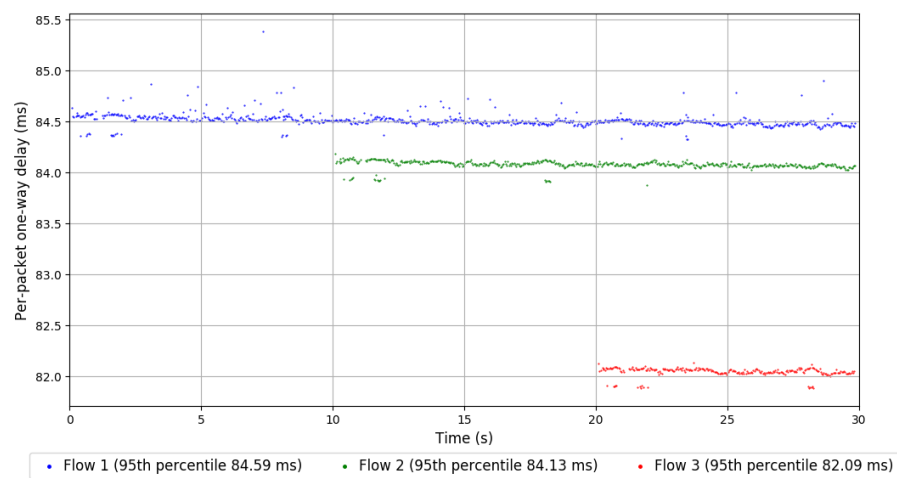
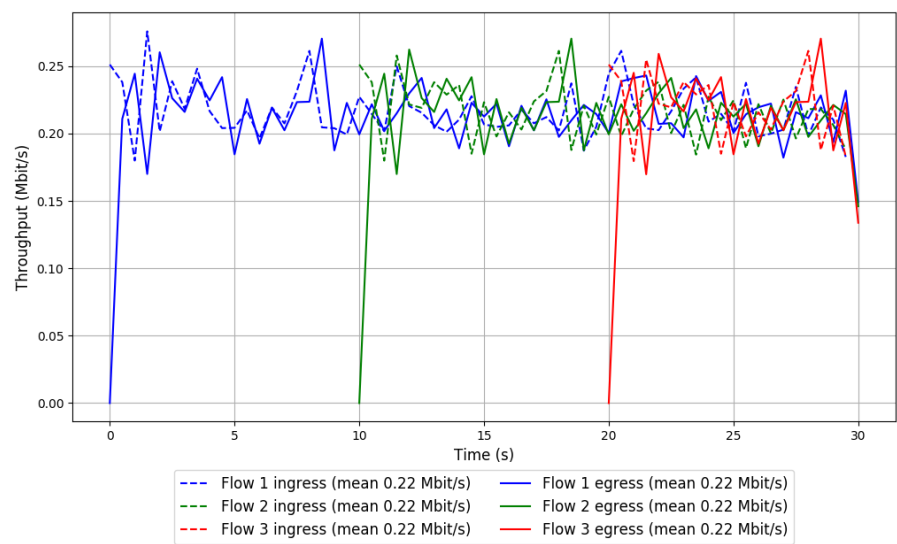


Run 7: Statistics of SReAM

Start at: 2018-08-10 03:39:17
End at: 2018-08-10 03:39:47
Local clock offset: -3.427 ms
Remote clock offset: 4.208 ms

Below is generated by plot.py at 2018-08-10 05:06:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 84.564 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.590 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.128 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.088 ms
Loss rate: 1.84%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-08-10 04:00:23

End at: 2018-08-10 04:00:53

Local clock offset: -3.966 ms

Remote clock offset: 6.78 ms

Below is generated by plot.py at 2018-08-10 05:06:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 79.595 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 79.603 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 77.104 ms

Loss rate: 0.82%

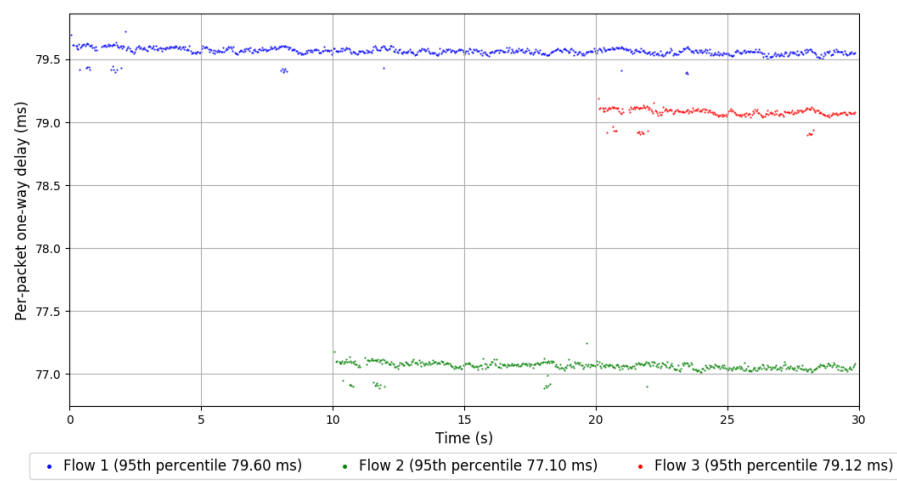
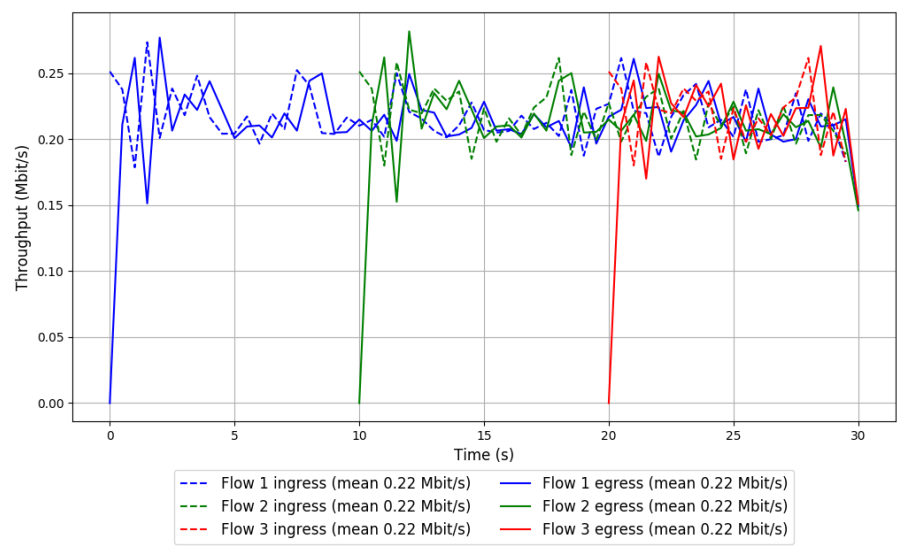
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 79.116 ms

Loss rate: 1.45%

Run 8: Report of SReAM — Data Link

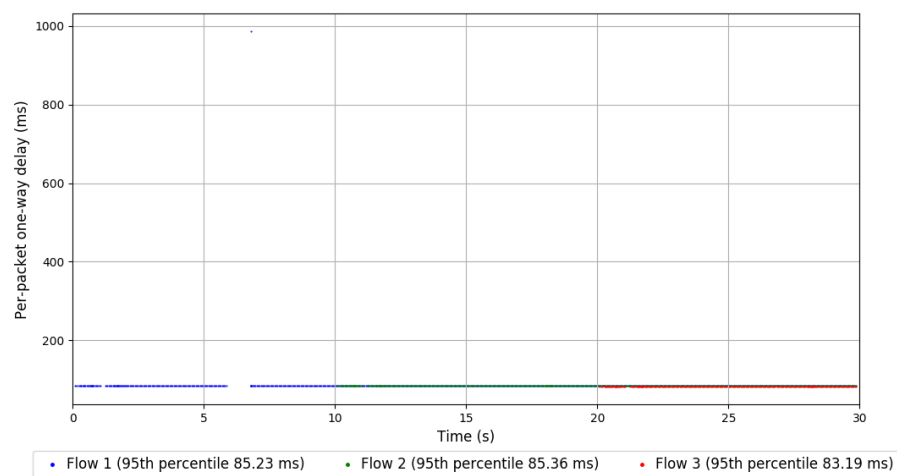
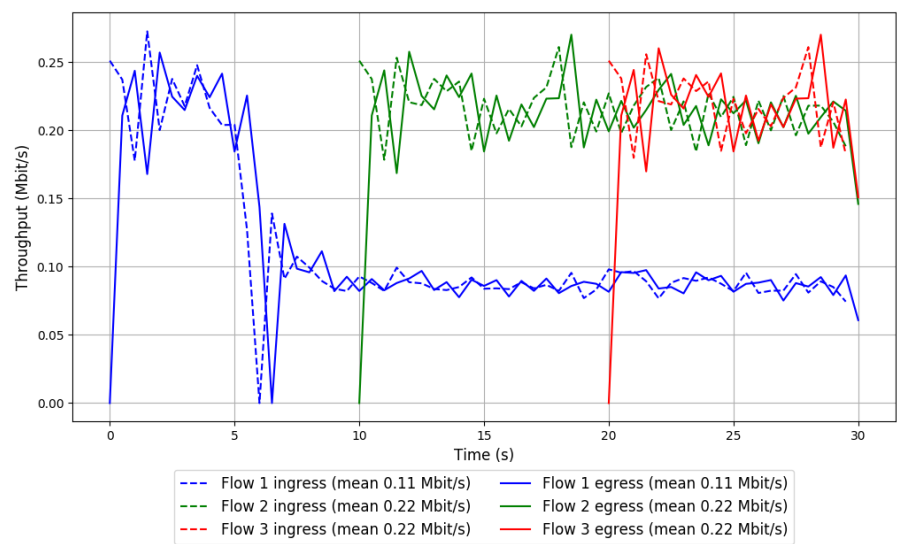


Run 9: Statistics of SReAM

Start at: 2018-08-10 04:21:33
End at: 2018-08-10 04:22:03
Local clock offset: -2.245 ms
Remote clock offset: -0.175 ms

Below is generated by plot.py at 2018-08-10 05:06:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 85.347 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 85.227 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.364 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.192 ms
Loss rate: 1.45%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-08-10 04:42:52

End at: 2018-08-10 04:43:22

Local clock offset: -3.046 ms

Remote clock offset: 2.959 ms

Below is generated by plot.py at 2018-08-10 05:06:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 79.932 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 79.940 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 77.588 ms

Loss rate: 0.82%

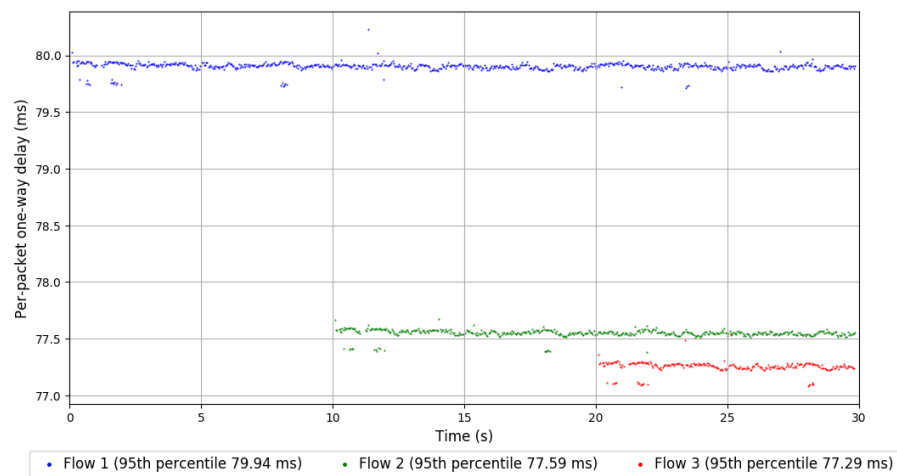
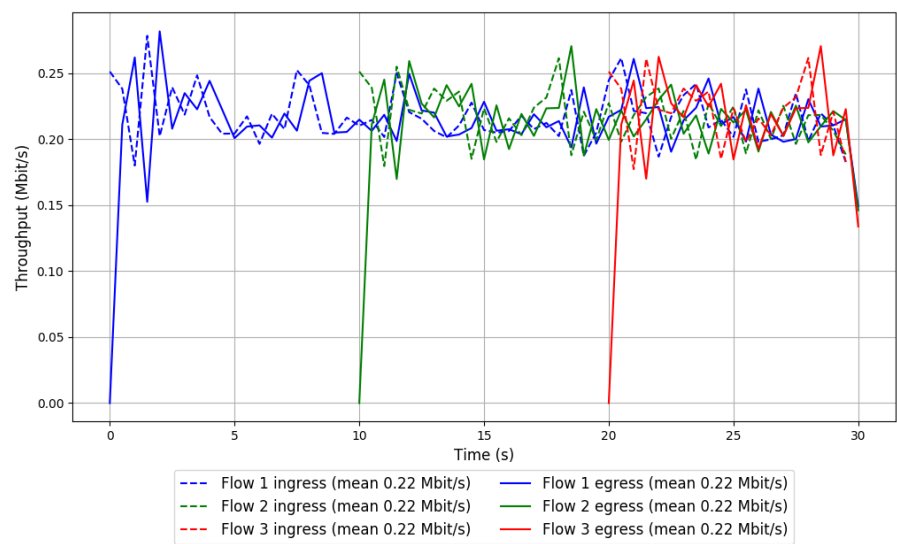
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 77.291 ms

Loss rate: 1.84%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-08-10 01:34:58

End at: 2018-08-10 01:35:28

Local clock offset: -2.88 ms

Remote clock offset: 2.866 ms

Below is generated by plot.py at 2018-08-10 05:06:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.77 Mbit/s

95th percentile per-packet one-way delay: 82.596 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 82.596 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 82.446 ms

Loss rate: 0.21%

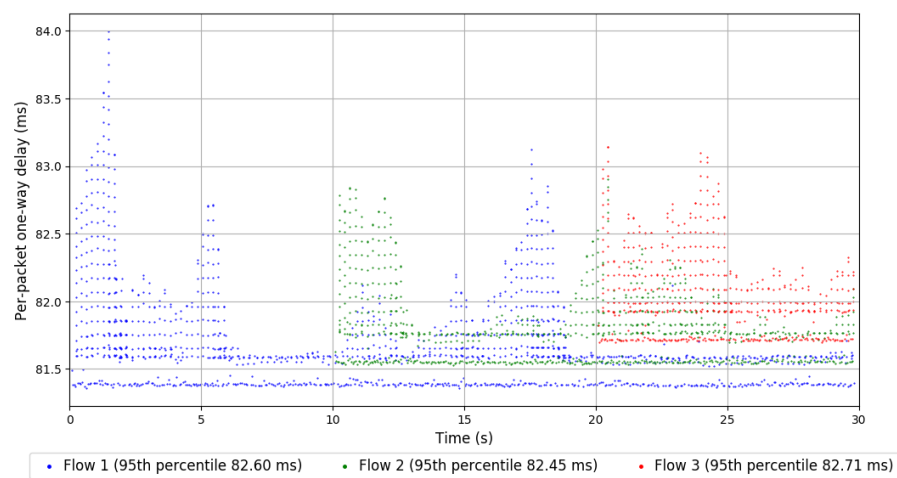
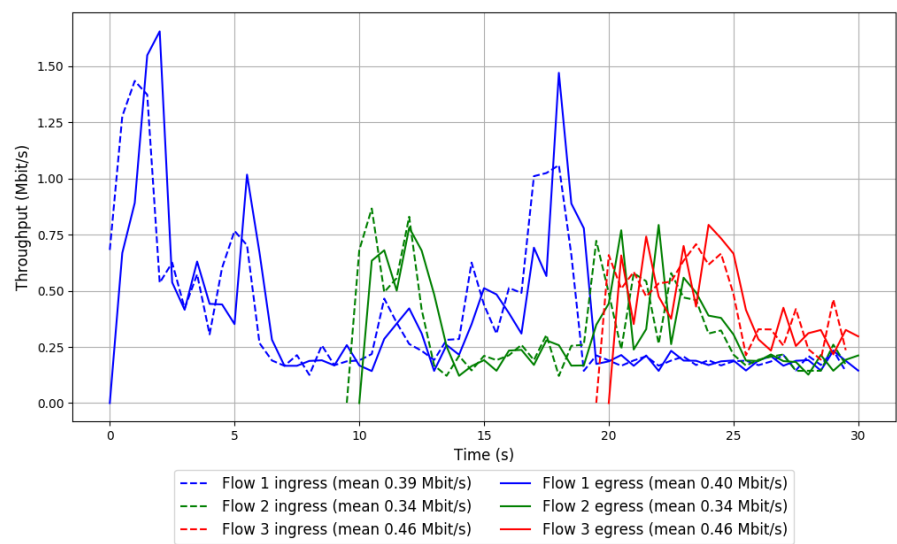
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 82.712 ms

Loss rate: 0.83%

Run 1: Report of Sprout — Data Link

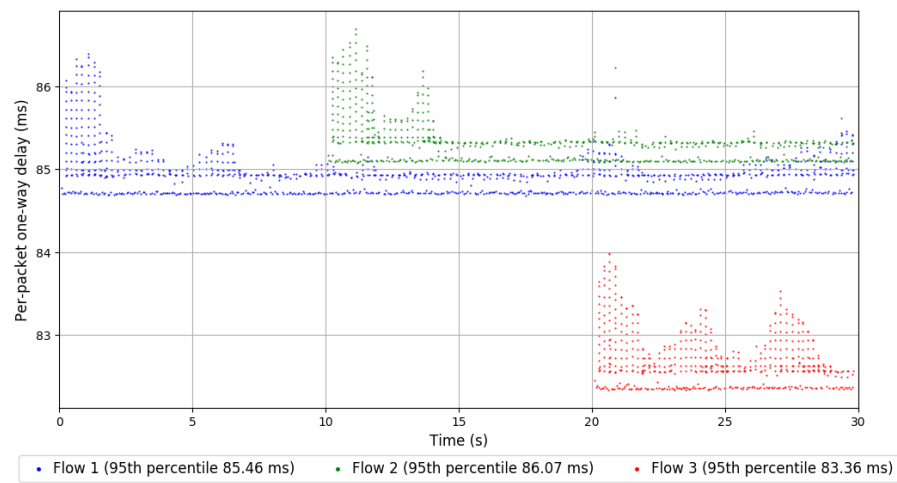
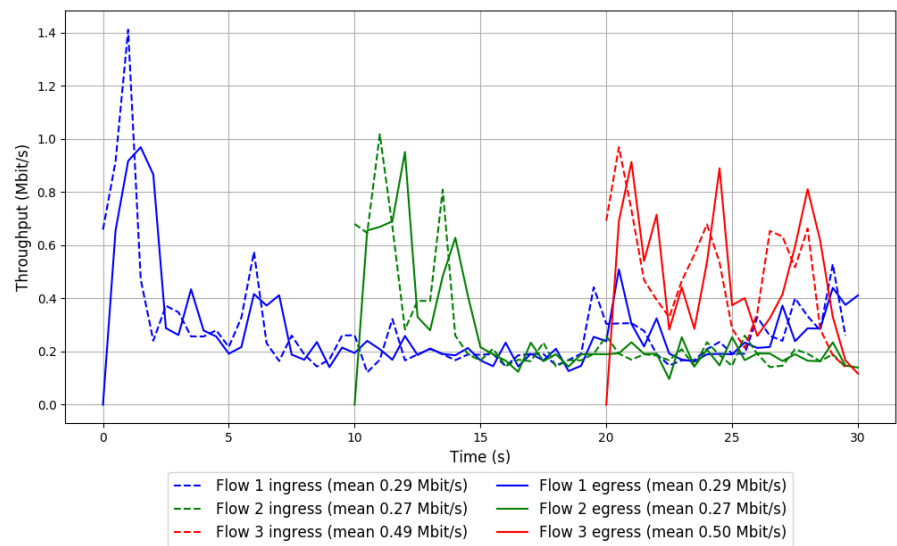


Run 2: Statistics of Sprout

Start at: 2018-08-10 01:56:11
End at: 2018-08-10 01:56:41
Local clock offset: -2.968 ms
Remote clock offset: 1.821 ms

```
# Below is generated by plot.py at 2018-08-10 05:06:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.63 Mbit/s
95th percentile per-packet one-way delay: 85.696 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 85.464 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 0.27 Mbit/s
95th percentile per-packet one-way delay: 86.074 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 83.359 ms
Loss rate: 0.48%
```

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-08-10 02:17:12

End at: 2018-08-10 02:17:42

Local clock offset: -2.979 ms

Remote clock offset: 2.15 ms

Below is generated by plot.py at 2018-08-10 05:06:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.94 Mbit/s

95th percentile per-packet one-way delay: 85.941 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 85.874 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 83.431 ms

Loss rate: 0.41%

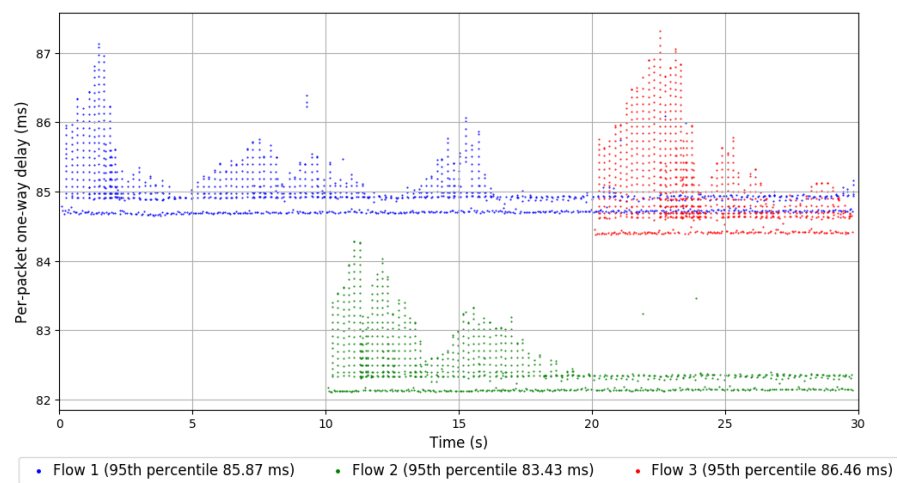
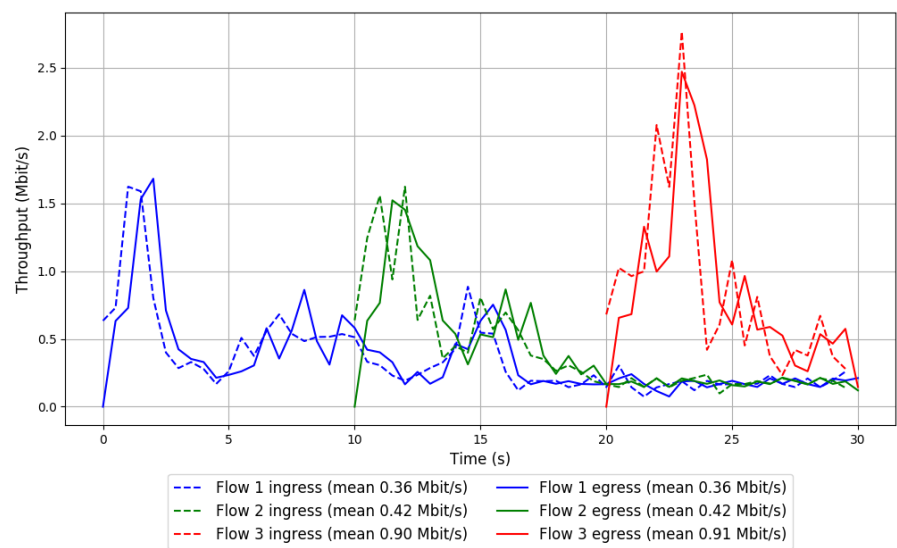
-- Flow 3:

Average throughput: 0.91 Mbit/s

95th percentile per-packet one-way delay: 86.462 ms

Loss rate: 0.79%

Run 3: Report of Sprout — Data Link

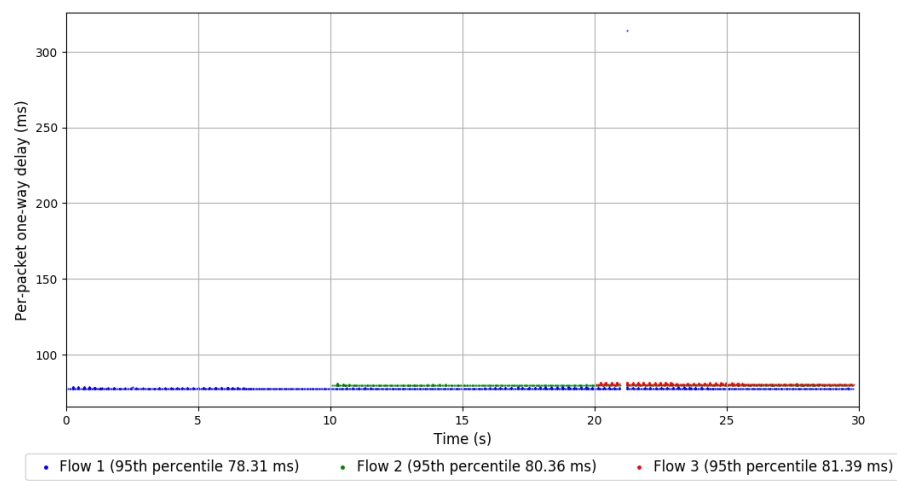
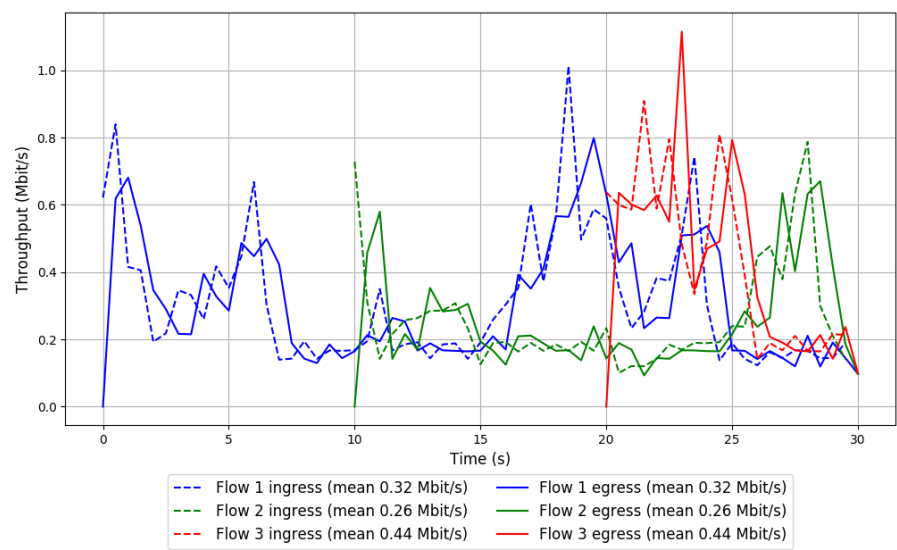


Run 4: Statistics of Sprout

Start at: 2018-08-10 02:38:17
End at: 2018-08-10 02:38:47
Local clock offset: -3.566 ms
Remote clock offset: 8.223 ms

```
# Below is generated by plot.py at 2018-08-10 05:06:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.63 Mbit/s
95th percentile per-packet one-way delay: 80.956 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 78.309 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 0.26 Mbit/s
95th percentile per-packet one-way delay: 80.356 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 81.392 ms
Loss rate: 1.34%
```

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-08-10 02:59:22

End at: 2018-08-10 02:59:52

Local clock offset: -3.257 ms

Remote clock offset: 8.223 ms

Below is generated by plot.py at 2018-08-10 05:06:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.64 Mbit/s

95th percentile per-packet one-way delay: 80.873 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 0.27 Mbit/s

95th percentile per-packet one-way delay: 79.995 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 79.875 ms

Loss rate: 0.17%

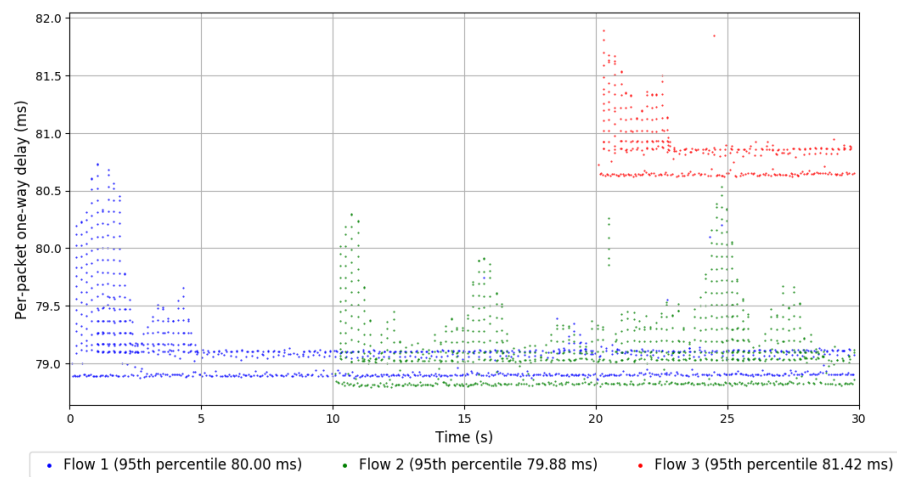
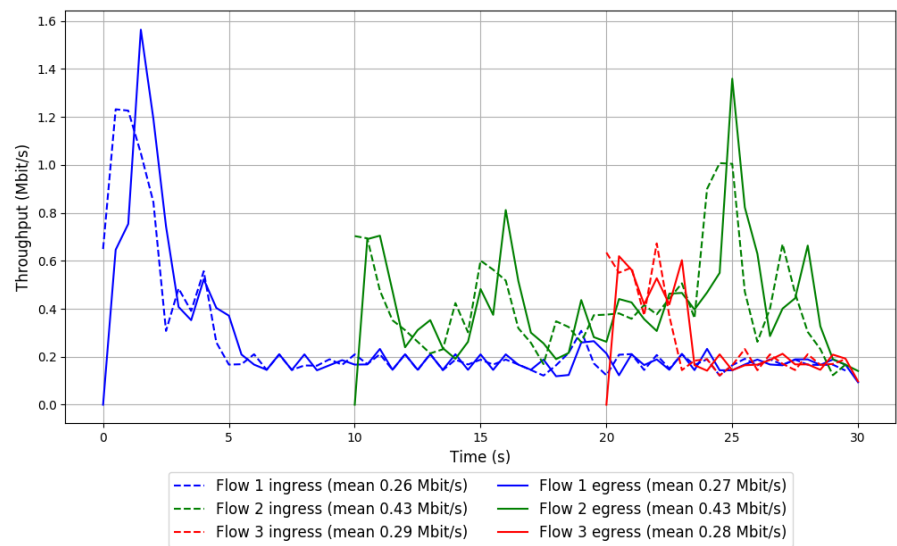
-- Flow 3:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 81.420 ms

Loss rate: 1.68%

Run 5: Report of Sprout — Data Link

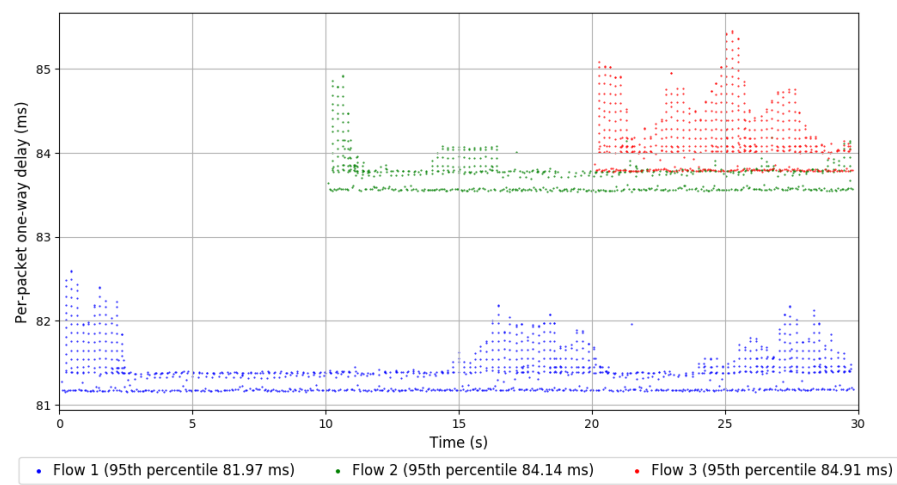
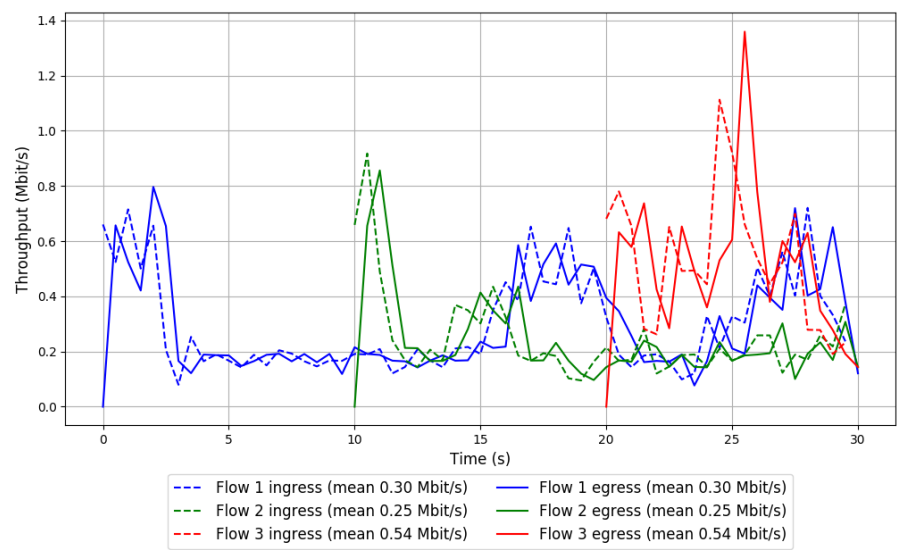


Run 6: Statistics of Sprout

Start at: 2018-08-10 03:20:35
End at: 2018-08-10 03:21:05
Local clock offset: -4.328 ms
Remote clock offset: 3.285 ms

Below is generated by plot.py at 2018-08-10 05:06:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.64 Mbit/s
95th percentile per-packet one-way delay: 84.505 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 81.969 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 84.138 ms
Loss rate: 2.34%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 84.914 ms
Loss rate: 0.87%

Run 6: Report of Sprout — Data Link

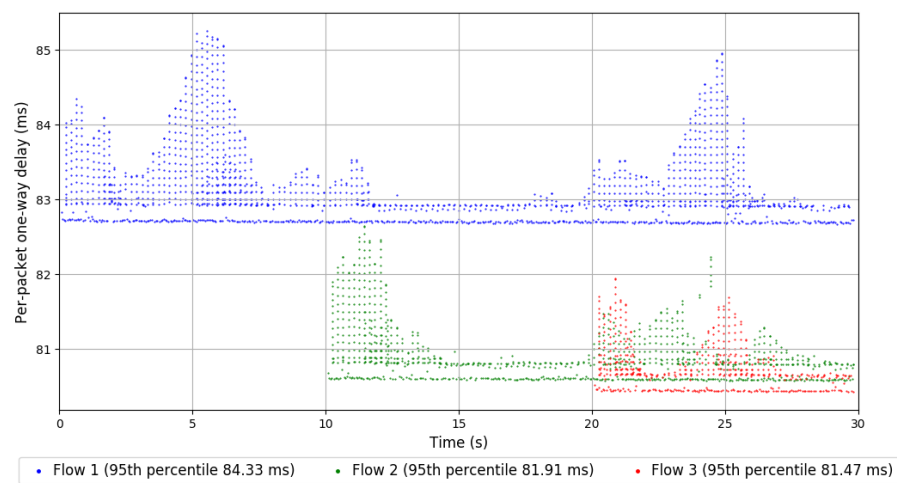
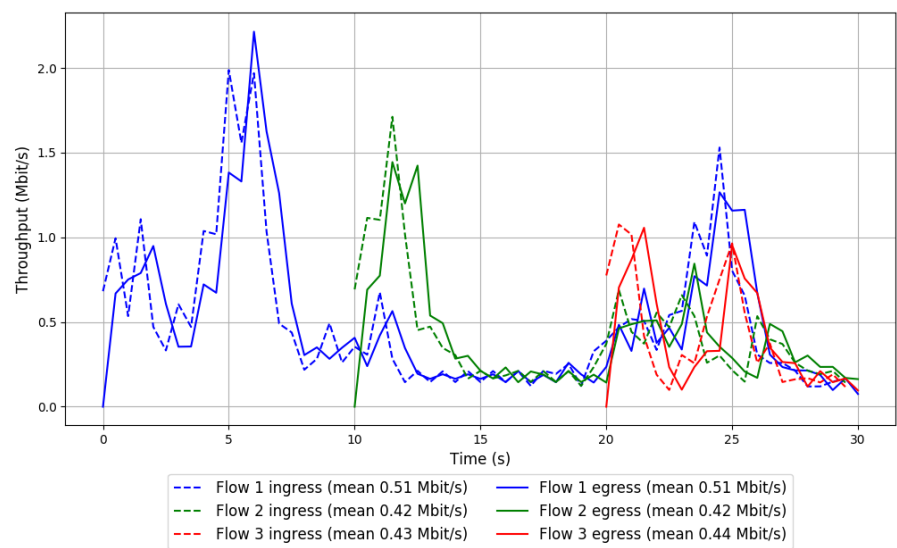


Run 7: Statistics of Sprout

Start at: 2018-08-10 03:41:43
End at: 2018-08-10 03:42:13
Local clock offset: -4.992 ms
Remote clock offset: 3.957 ms

Below is generated by plot.py at 2018-08-10 05:06:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.93 Mbit/s
95th percentile per-packet one-way delay: 84.020 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 84.335 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 81.914 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 81.469 ms
Loss rate: 0.55%

Run 7: Report of Sprout — Data Link

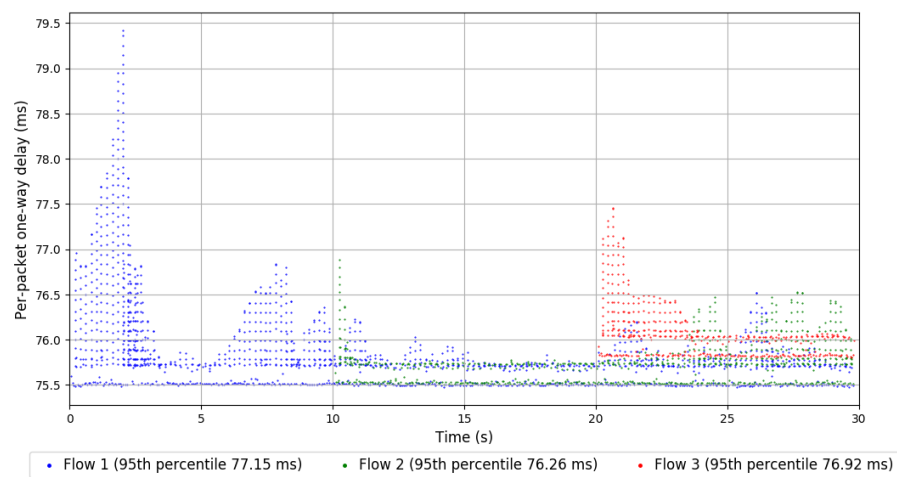
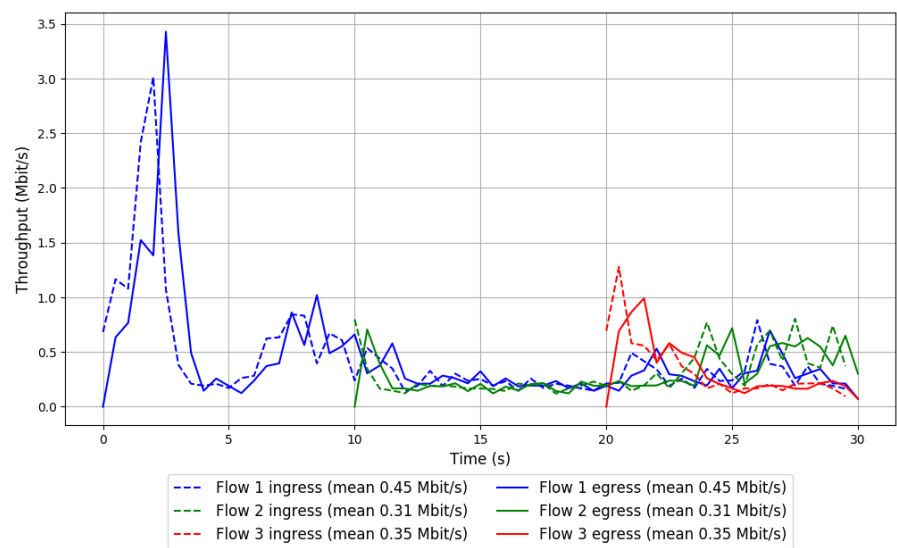


Run 8: Statistics of Sprout

Start at: 2018-08-10 04:02:51
End at: 2018-08-10 04:03:21
Local clock offset: -3.962 ms
Remote clock offset: 7.836 ms

Below is generated by plot.py at 2018-08-10 05:06:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.77 Mbit/s
95th percentile per-packet one-way delay: 76.825 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 77.150 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 0.31 Mbit/s
95th percentile per-packet one-way delay: 76.258 ms
Loss rate: 1.33%
-- Flow 3:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 76.920 ms
Loss rate: 0.39%

Run 8: Report of Sprout — Data Link

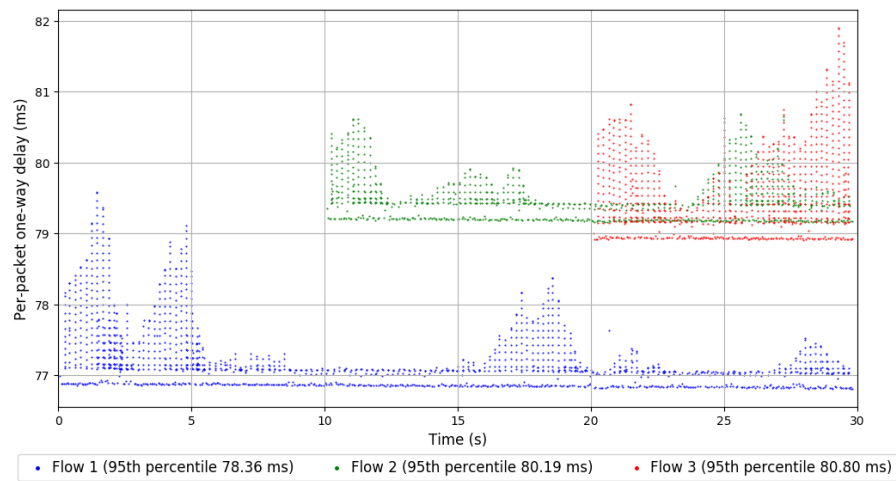
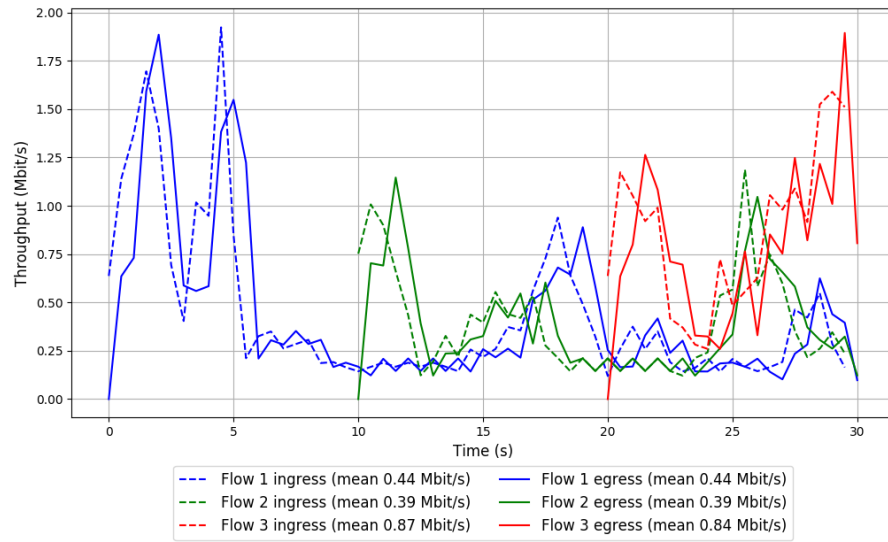


Run 9: Statistics of Sprout

Start at: 2018-08-10 04:24:00
End at: 2018-08-10 04:24:30
Local clock offset: -3.795 ms
Remote clock offset: 4.296 ms

Below is generated by plot.py at 2018-08-10 05:06:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.97 Mbit/s
95th percentile per-packet one-way delay: 80.272 ms
Loss rate: 1.91%
-- Flow 1:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 78.356 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 80.195 ms
Loss rate: 0.89%
-- Flow 3:
Average throughput: 0.84 Mbit/s
95th percentile per-packet one-way delay: 80.797 ms
Loss rate: 5.36%

Run 9: Report of Sprout — Data Link

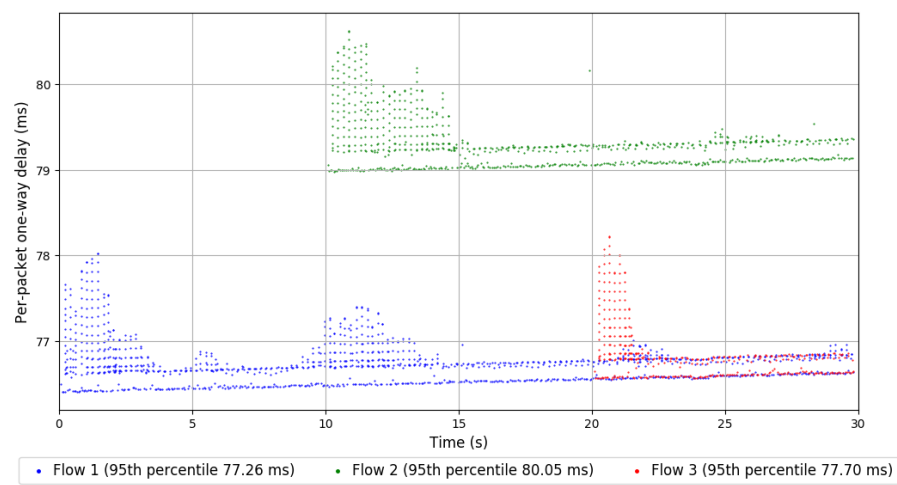
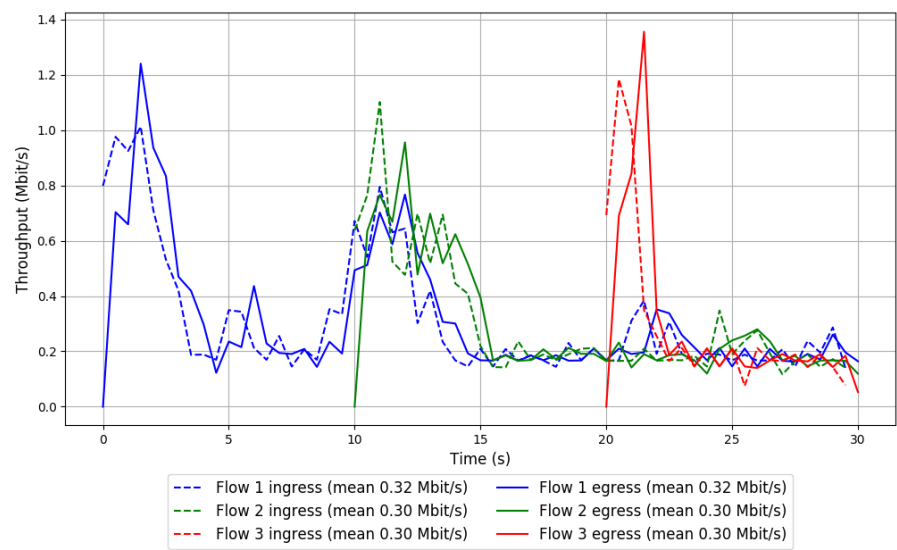


Run 10: Statistics of Sprout

Start at: 2018-08-10 04:45:19
End at: 2018-08-10 04:45:50
Local clock offset: -3.043 ms
Remote clock offset: 3.917 ms

Below is generated by plot.py at 2018-08-10 05:06:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.62 Mbit/s
95th percentile per-packet one-way delay: 79.627 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 77.257 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 80.051 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 77.701 ms
Loss rate: 0.47%

Run 10: Report of Sprout — Data Link

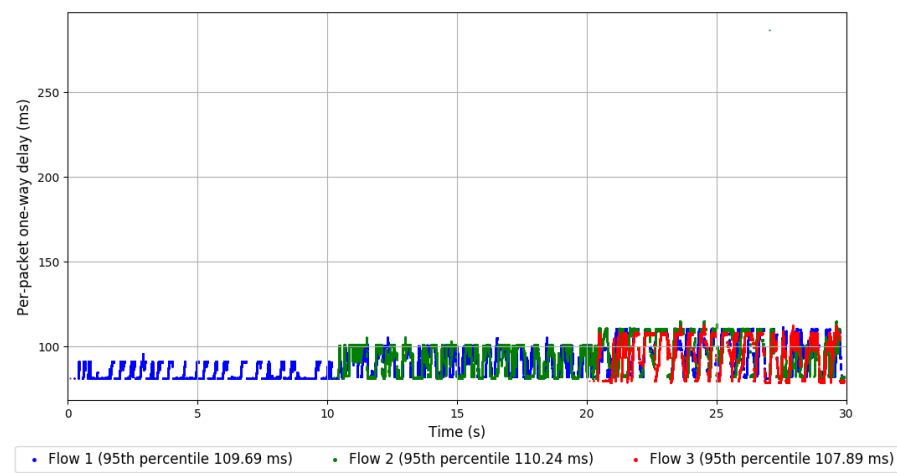
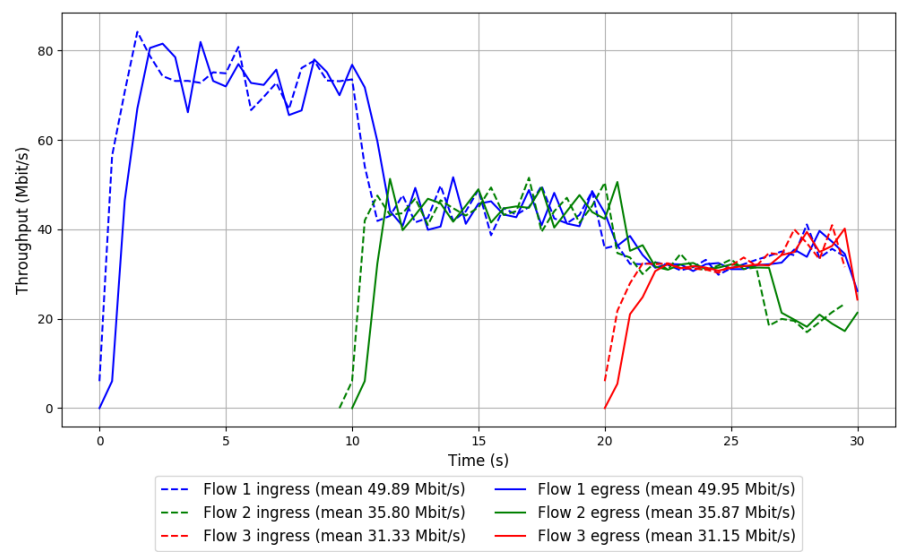


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-08-10 01:22:35
End at: 2018-08-10 01:23:05
Local clock offset: -3.646 ms
Remote clock offset: 4.409 ms

# Below is generated by plot.py at 2018-08-10 05:08:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.03 Mbit/s
95th percentile per-packet one-way delay: 109.923 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 49.95 Mbit/s
95th percentile per-packet one-way delay: 109.693 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 35.87 Mbit/s
95th percentile per-packet one-way delay: 110.238 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 31.15 Mbit/s
95th percentile per-packet one-way delay: 107.887 ms
Loss rate: 2.36%
```


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



Run 2: Statistics of TaoVA-100x

Start at: 2018-08-10 01:43:36

End at: 2018-08-10 01:44:06

Local clock offset: -2.846 ms

Remote clock offset: 2.867 ms

Below is generated by plot.py at 2018-08-10 05:08:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.38 Mbit/s

95th percentile per-packet one-way delay: 110.660 ms

Loss rate: 8.79%

-- Flow 1:

Average throughput: 45.67 Mbit/s

95th percentile per-packet one-way delay: 110.426 ms

Loss rate: 7.70%

-- Flow 2:

Average throughput: 33.36 Mbit/s

95th percentile per-packet one-way delay: 110.346 ms

Loss rate: 10.49%

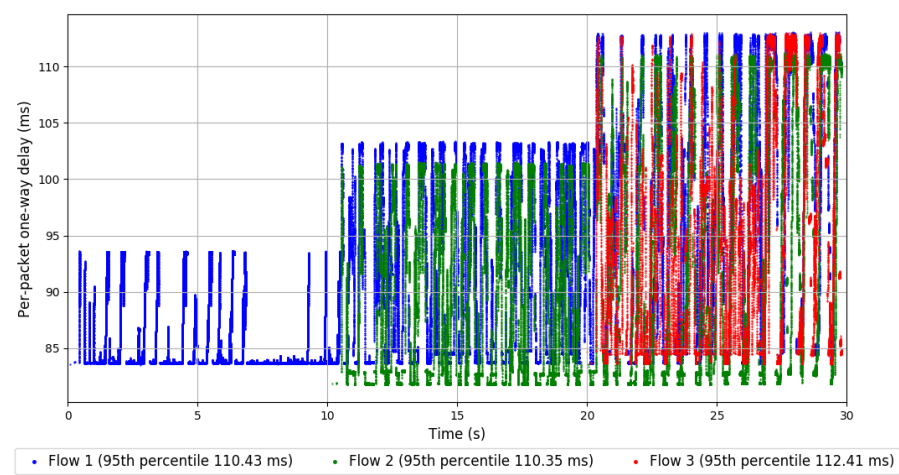
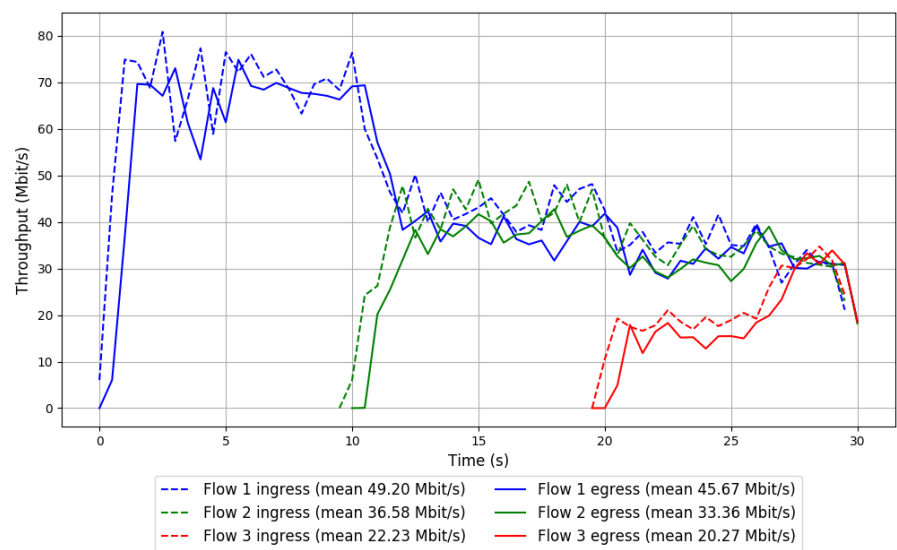
-- Flow 3:

Average throughput: 20.27 Mbit/s

95th percentile per-packet one-way delay: 112.414 ms

Loss rate: 10.40%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-08-10 02:04:50

End at: 2018-08-10 02:05:20

Local clock offset: -2.881 ms

Remote clock offset: 2.026 ms

Below is generated by plot.py at 2018-08-10 05:08:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.57 Mbit/s

95th percentile per-packet one-way delay: 111.949 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 47.31 Mbit/s

95th percentile per-packet one-way delay: 111.330 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 36.42 Mbit/s

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

Loss rate: 0.97%

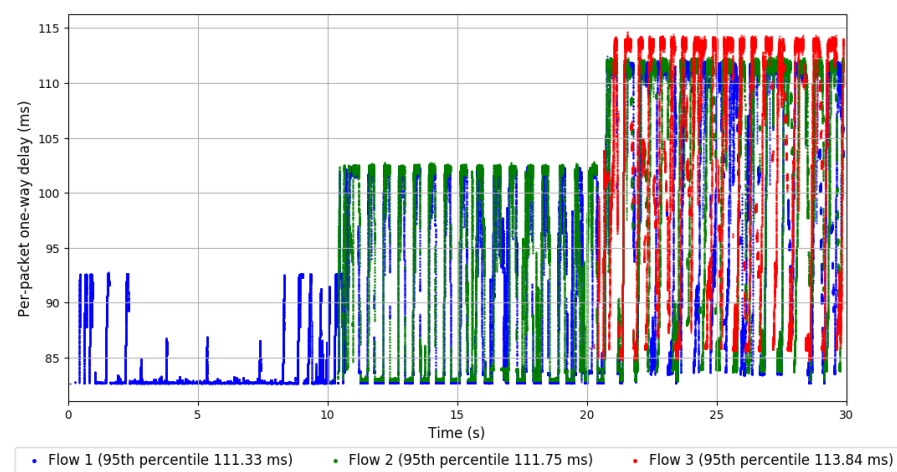
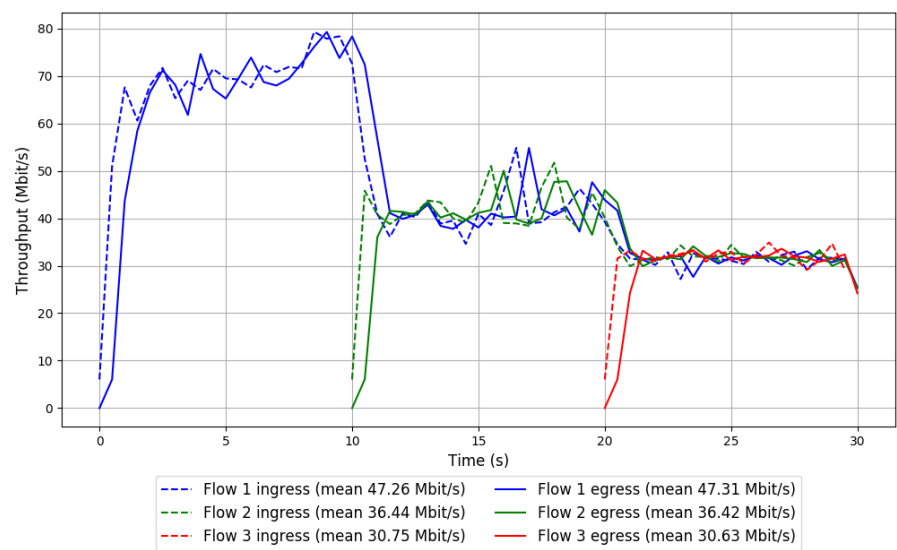
-- Flow 3:

Average throughput: 30.63 Mbit/s

95th percentile per-packet one-way delay: 113.837 ms

Loss rate: 2.12%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-08-10 02:25:51

End at: 2018-08-10 02:26:21

Local clock offset: -3.326 ms

Remote clock offset: 2.193 ms

Below is generated by plot.py at 2018-08-10 05:08:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.02 Mbit/s

95th percentile per-packet one-way delay: 111.421 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 48.05 Mbit/s

95th percentile per-packet one-way delay: 110.791 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 37.39 Mbit/s

95th percentile per-packet one-way delay: 111.431 ms

Loss rate: 1.01%

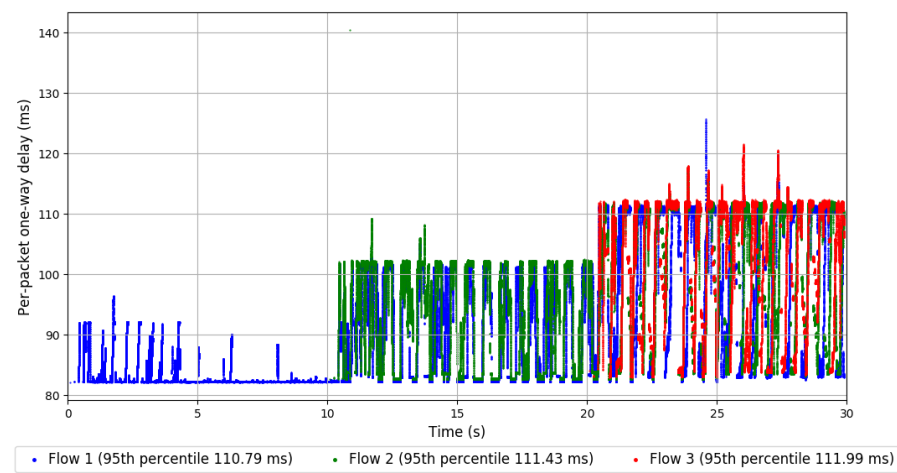
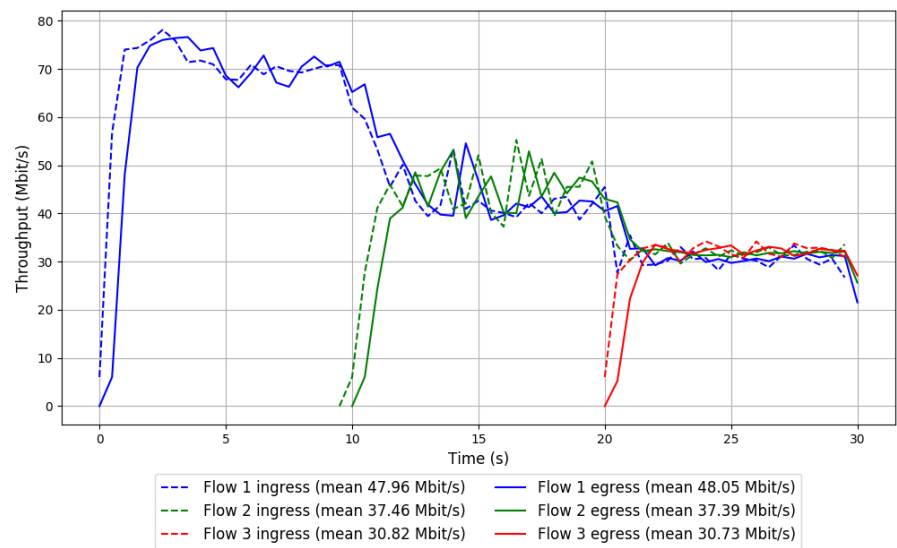
-- Flow 3:

Average throughput: 30.73 Mbit/s

95th percentile per-packet one-way delay: 111.988 ms

Loss rate: 1.99%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-08-10 02:46:57

End at: 2018-08-10 02:47:27

Local clock offset: -4.361 ms

Remote clock offset: 5.045 ms

Below is generated by plot.py at 2018-08-10 05:08:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.80 Mbit/s

95th percentile per-packet one-way delay: 111.816 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 48.27 Mbit/s

95th percentile per-packet one-way delay: 111.691 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 37.34 Mbit/s

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

Loss rate: 0.78%

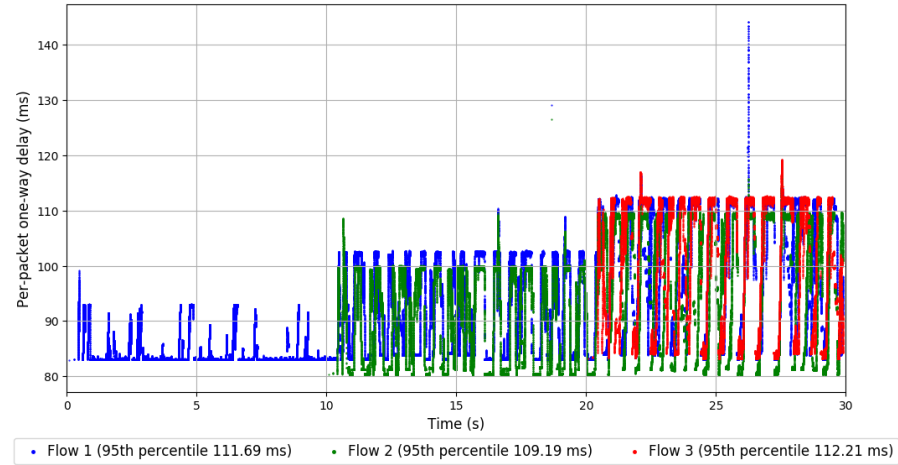
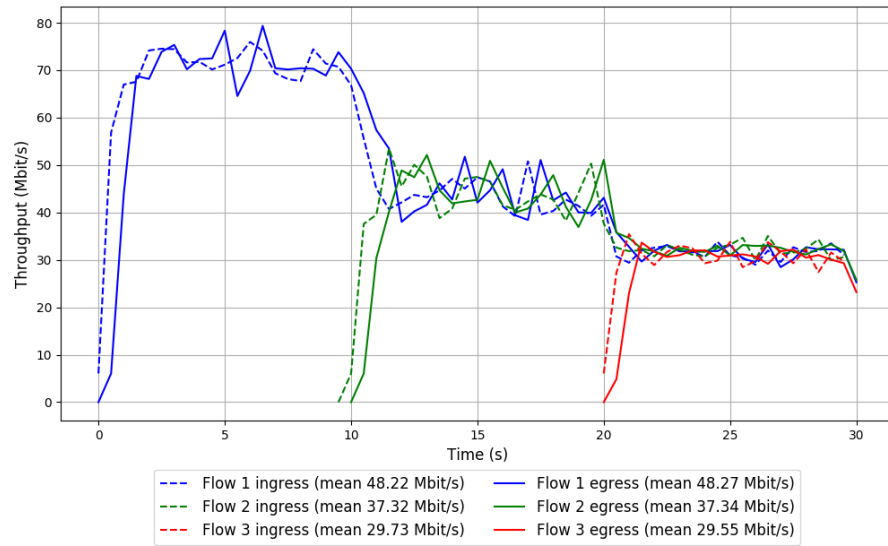
-- Flow 3:

Average throughput: 29.55 Mbit/s

95th percentile per-packet one-way delay: 112.211 ms

Loss rate: 2.27%

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



Run 6: Statistics of TaoVA-100x

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

End at: 2018-08-10 03:08:32

Local clock offset: -2.411 ms

Remote clock offset: 5.277 ms

Below is generated by plot.py at 2018-08-10 05:08:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.12 Mbit/s

95th percentile per-packet one-way delay: 103.469 ms

Loss rate: 11.83%

-- Flow 1:

Average throughput: 48.18 Mbit/s

95th percentile per-packet one-way delay: 101.548 ms

Loss rate: 10.31%

-- Flow 2:

Average throughput: 34.60 Mbit/s

95th percentile per-packet one-way delay: 103.705 ms

Loss rate: 14.22%

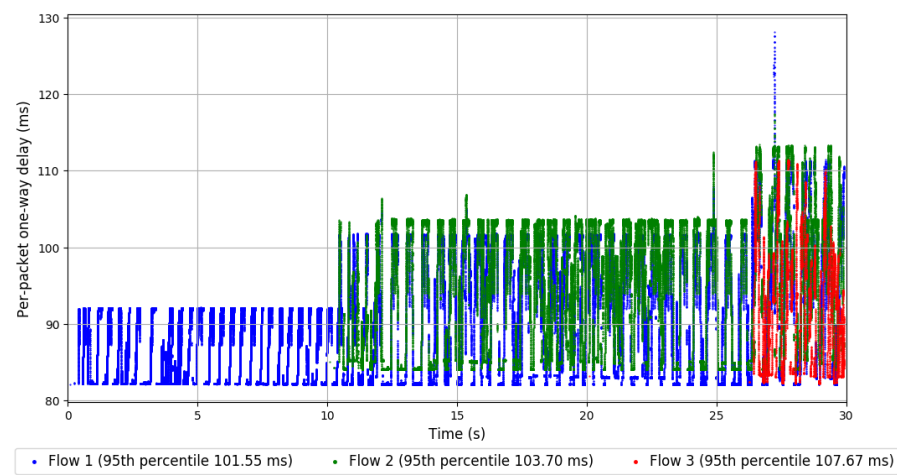
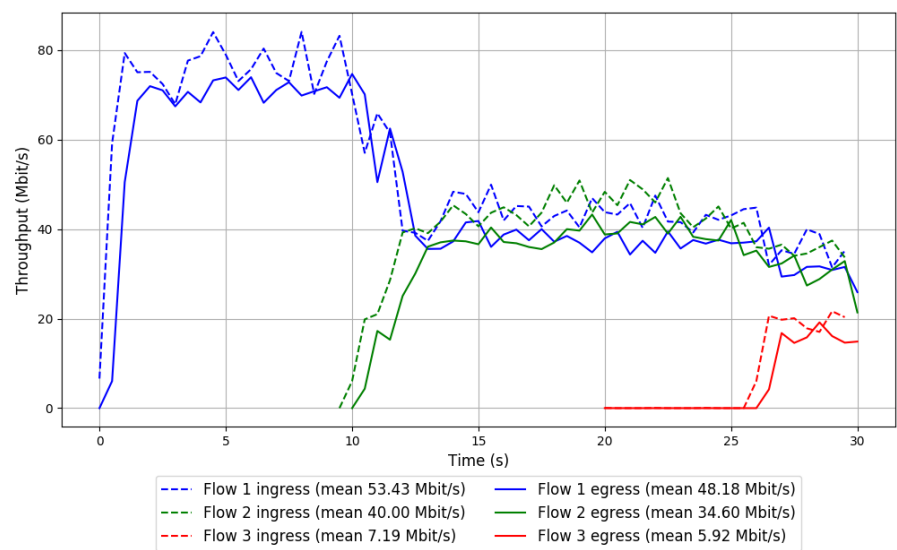
-- Flow 3:

Average throughput: 5.92 Mbit/s

95th percentile per-packet one-way delay: 107.667 ms

Loss rate: 19.09%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-08-10 03:29:14

End at: 2018-08-10 03:29:44

Local clock offset: -4.74 ms

Remote clock offset: 3.108 ms

Below is generated by plot.py at 2018-08-10 05:08:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.80 Mbit/s

95th percentile per-packet one-way delay: 112.746 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 51.02 Mbit/s

95th percentile per-packet one-way delay: 112.718 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 37.55 Mbit/s

95th percentile per-packet one-way delay: 110.964 ms

Loss rate: 0.94%

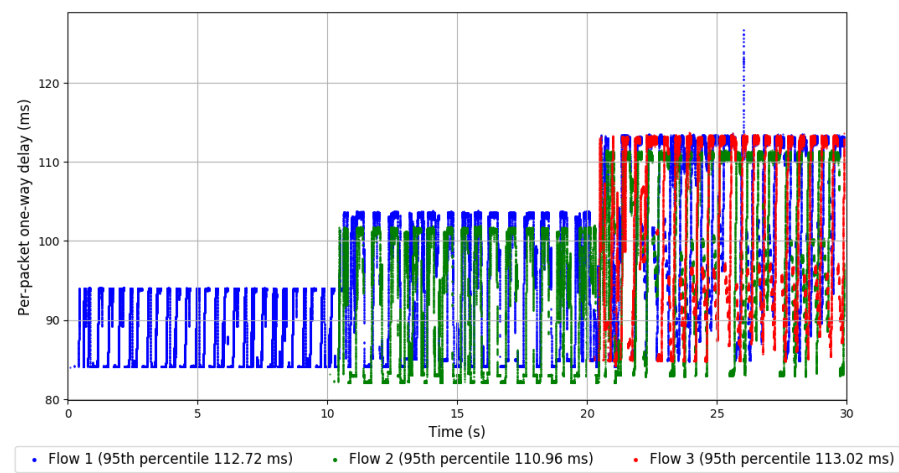
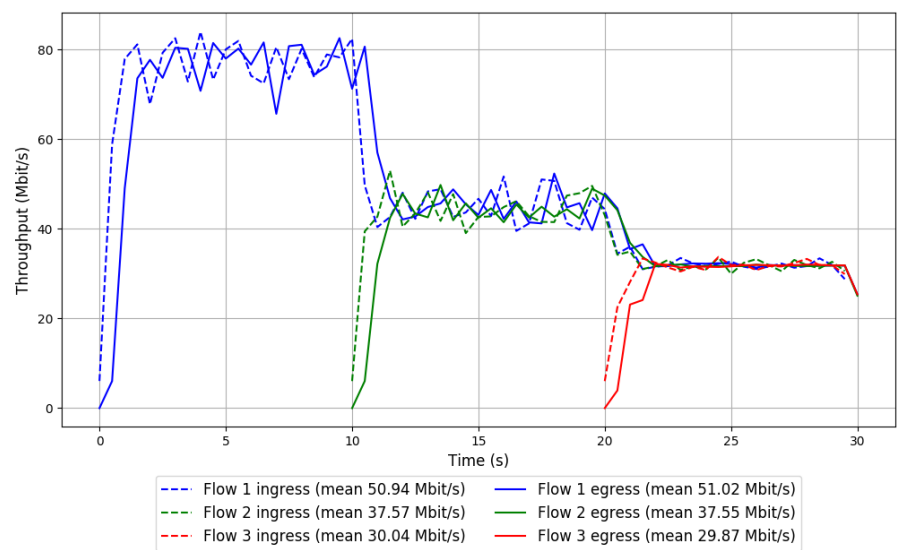
-- Flow 3:

Average throughput: 29.87 Mbit/s

95th percentile per-packet one-way delay: 113.024 ms

Loss rate: 2.09%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-08-10 03:50:19

End at: 2018-08-10 03:50:49

Local clock offset: -3.765 ms

Remote clock offset: 2.094 ms

Below is generated by plot.py at 2018-08-10 05:08:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.73 Mbit/s

95th percentile per-packet one-way delay: 113.789 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 50.65 Mbit/s

95th percentile per-packet one-way delay: 113.428 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 37.94 Mbit/s

95th percentile per-packet one-way delay: 113.933 ms

Loss rate: 0.98%

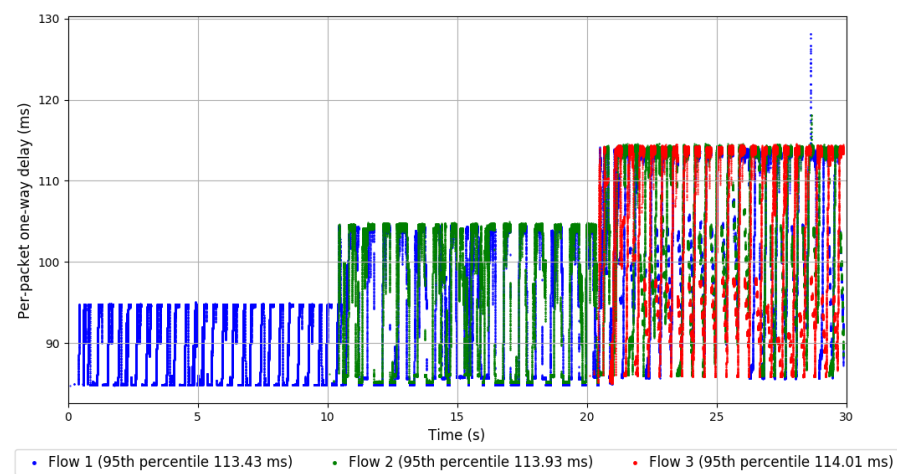
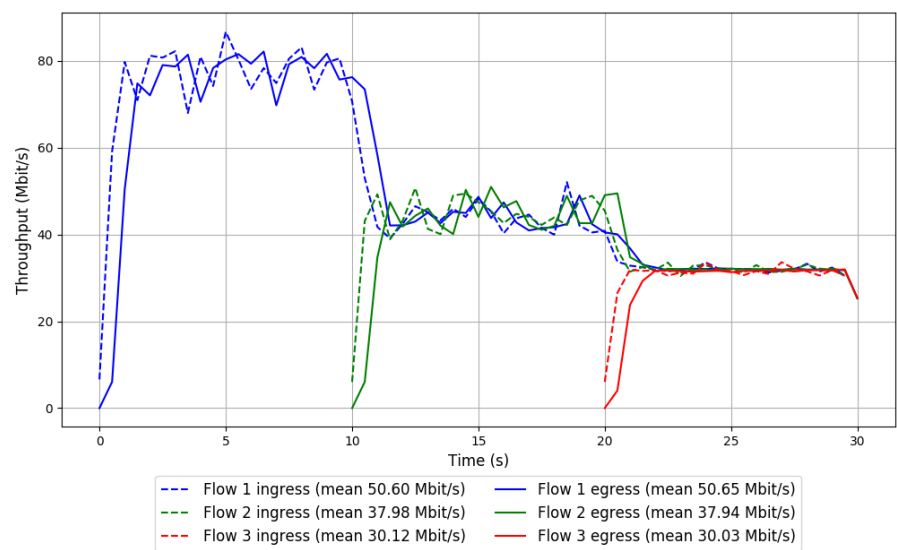
-- Flow 3:

Average throughput: 30.03 Mbit/s

95th percentile per-packet one-way delay: 114.014 ms

Loss rate: 1.97%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-08-10 04:11:32

End at: 2018-08-10 04:12:02

Local clock offset: -2.21 ms

Remote clock offset: 7.662 ms

Below is generated by plot.py at 2018-08-10 05:09:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.56 Mbit/s

95th percentile per-packet one-way delay: 107.921 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 50.10 Mbit/s

95th percentile per-packet one-way delay: 107.775 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 37.00 Mbit/s

95th percentile per-packet one-way delay: 106.533 ms

Loss rate: 0.94%

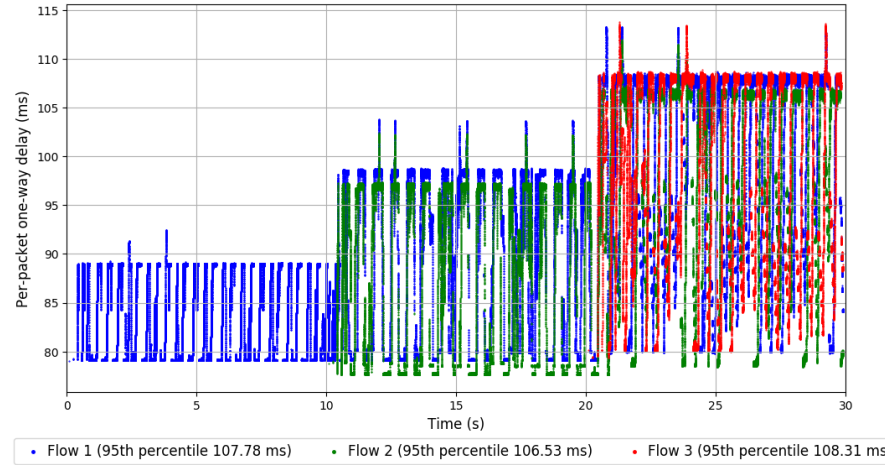
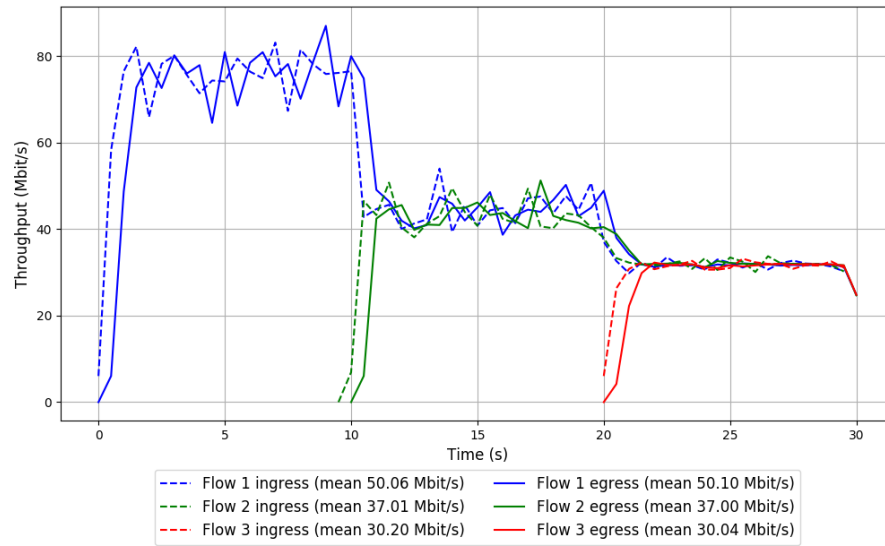
-- Flow 3:

Average throughput: 30.04 Mbit/s

95th percentile per-packet one-way delay: 108.312 ms

Loss rate: 2.20%

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

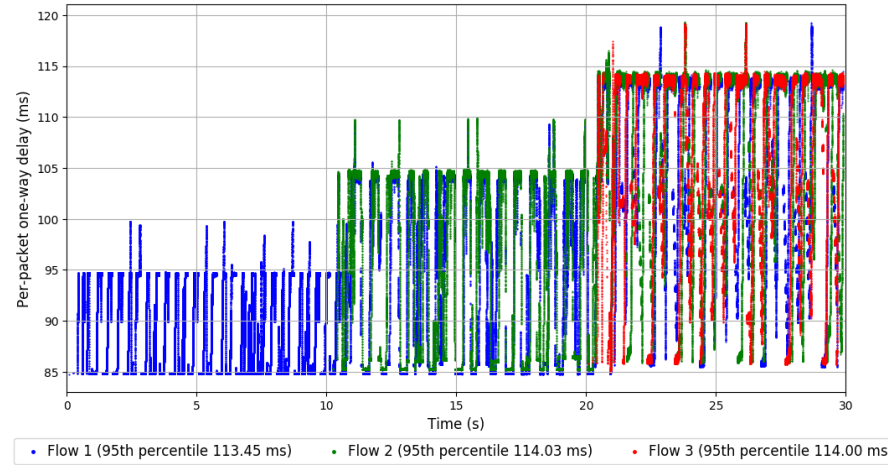
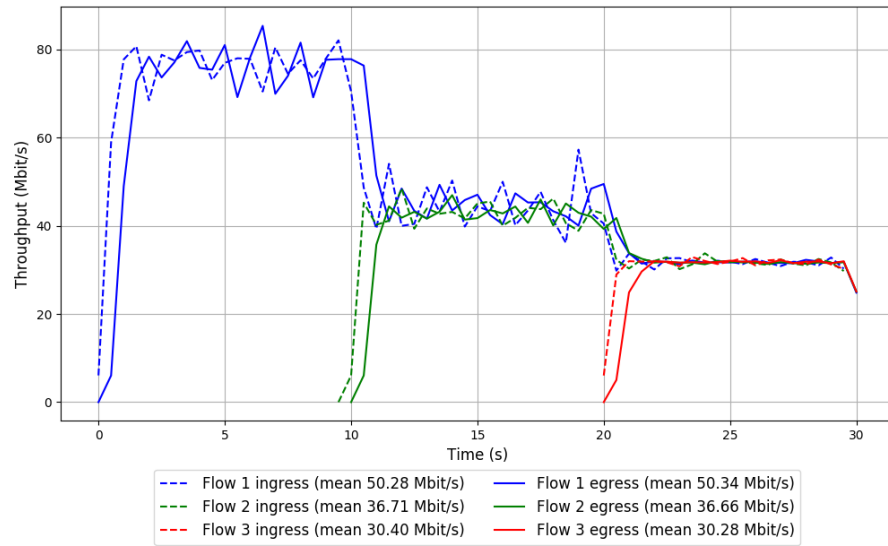


Run 10: Statistics of TaoVA-100x

Start at: 2018-08-10 04:32:39
End at: 2018-08-10 04:33:09
Local clock offset: -3.043 ms
Remote clock offset: -1.361 ms

Below is generated by plot.py at 2018-08-10 05:09:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.66 Mbit/s
95th percentile per-packet one-way delay: 113.835 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 50.34 Mbit/s
95th percentile per-packet one-way delay: 113.453 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 36.66 Mbit/s
95th percentile per-packet one-way delay: 114.026 ms
Loss rate: 0.93%
-- Flow 3:
Average throughput: 30.28 Mbit/s
95th percentile per-packet one-way delay: 113.997 ms
Loss rate: 2.07%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-08-10 01:39:55

End at: 2018-08-10 01:40:25

Local clock offset: -2.86 ms

Remote clock offset: 5.502 ms

Below is generated by plot.py at 2018-08-10 05:09:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 56.84 Mbit/s

95th percentile per-packet one-way delay: 86.833 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 37.85 Mbit/s

95th percentile per-packet one-way delay: 82.669 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 19.22 Mbit/s

95th percentile per-packet one-way delay: 82.591 ms

Loss rate: 0.77%

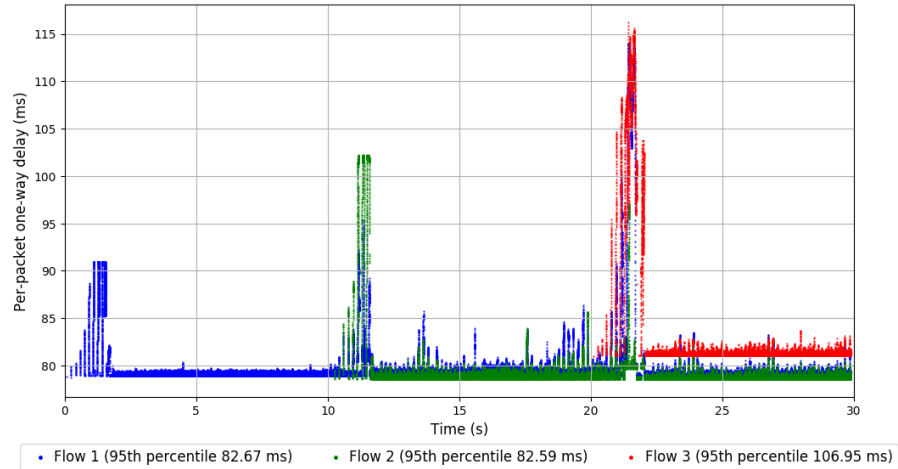
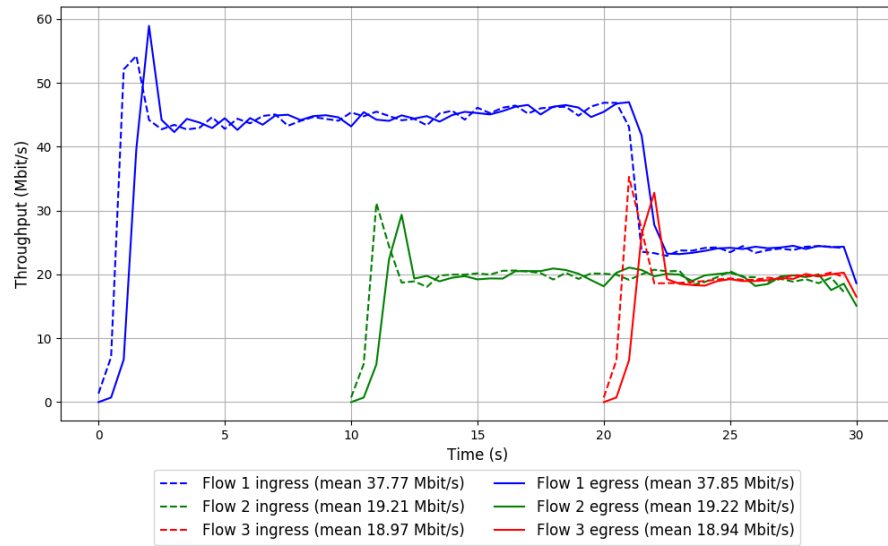
-- Flow 3:

Average throughput: 18.94 Mbit/s

95th percentile per-packet one-way delay: 106.950 ms

Loss rate: 1.86%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-08-10 02:01:07

End at: 2018-08-10 02:01:37

Local clock offset: -3.657 ms

Remote clock offset: 7.727 ms

Below is generated by plot.py at 2018-08-10 05:09:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 32.66 Mbit/s

95th percentile per-packet one-way delay: 82.893 ms

Loss rate: 1.07%

-- Flow 1:

Average throughput: 19.60 Mbit/s

95th percentile per-packet one-way delay: 86.710 ms

Loss rate: 0.91%

-- Flow 2:

Average throughput: 13.93 Mbit/s

95th percentile per-packet one-way delay: 78.345 ms

Loss rate: 1.01%

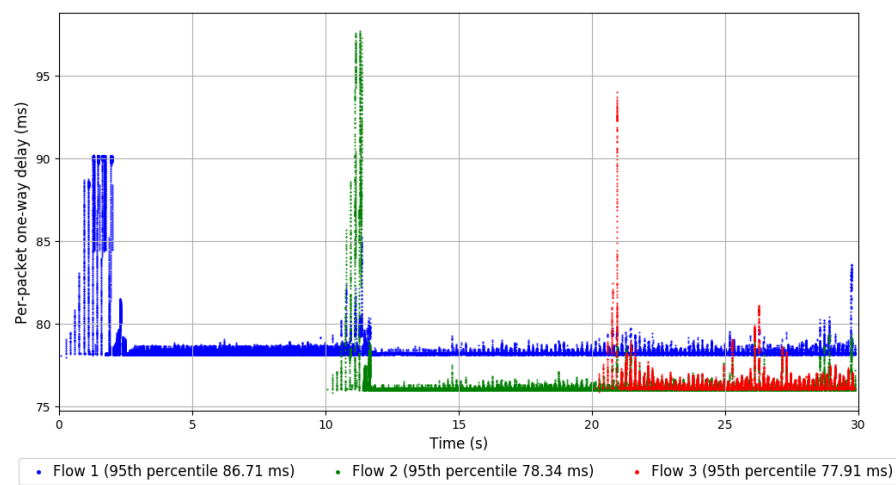
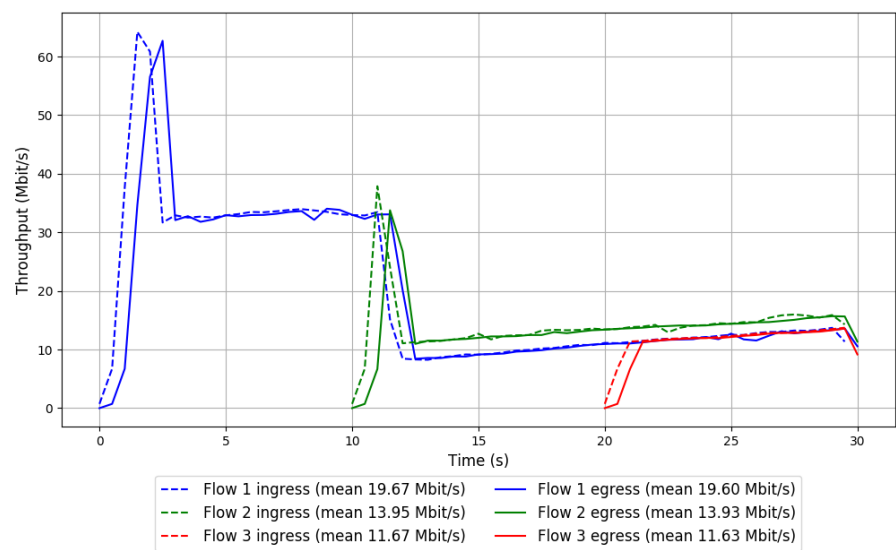
-- Flow 3:

Average throughput: 11.63 Mbit/s

95th percentile per-packet one-way delay: 77.913 ms

Loss rate: 1.99%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-08-10 02:22:10

End at: 2018-08-10 02:22:40

Local clock offset: -3.962 ms

Remote clock offset: 6.071 ms

Below is generated by plot.py at 2018-08-10 05:09:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 35.81 Mbit/s

95th percentile per-packet one-way delay: 81.504 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 4.61 Mbit/s

95th percentile per-packet one-way delay: 81.645 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 44.58 Mbit/s

95th percentile per-packet one-way delay: 80.950 ms

Loss rate: 0.92%

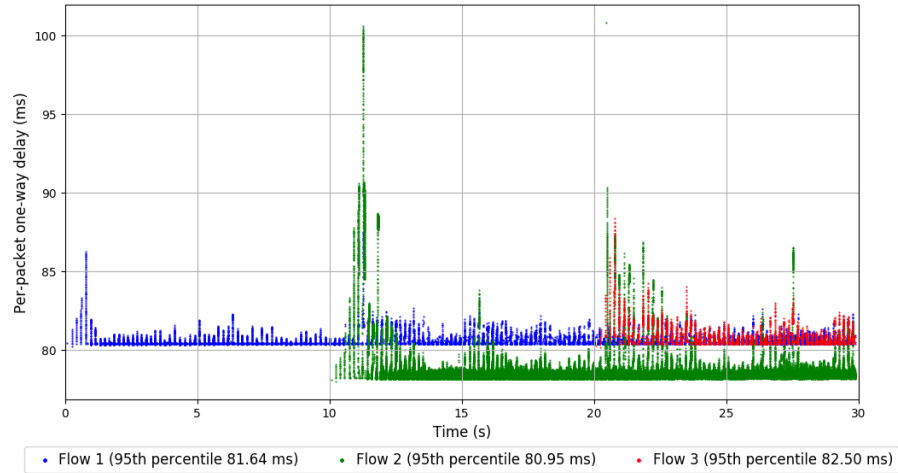
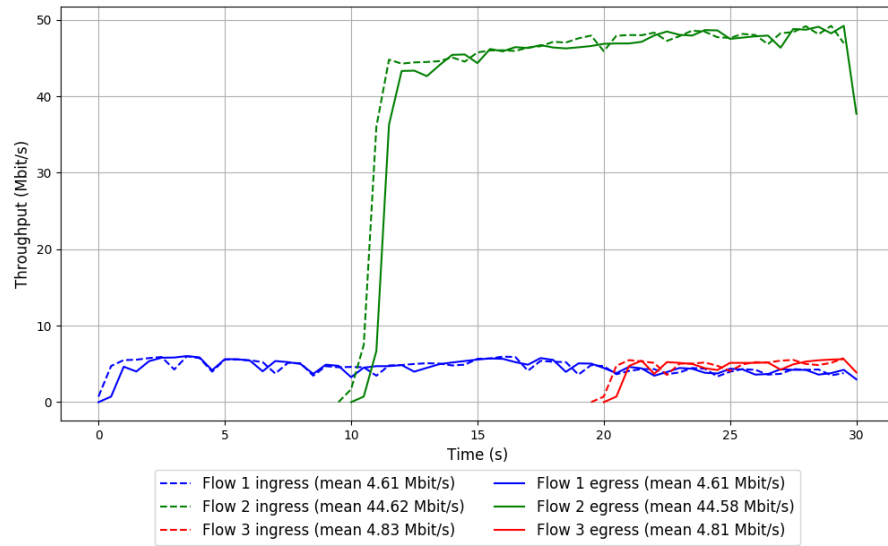
-- Flow 3:

Average throughput: 4.81 Mbit/s

95th percentile per-packet one-way delay: 82.505 ms

Loss rate: 2.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-08-10 02:43:15

End at: 2018-08-10 02:43:45

Local clock offset: -4.447 ms

Remote clock offset: 3.866 ms

Below is generated by plot.py at 2018-08-10 05:09:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 59.25 Mbit/s

95th percentile per-packet one-way delay: 88.335 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 46.57 Mbit/s

95th percentile per-packet one-way delay: 88.865 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 9.66 Mbit/s

95th percentile per-packet one-way delay: 86.338 ms

Loss rate: 0.85%

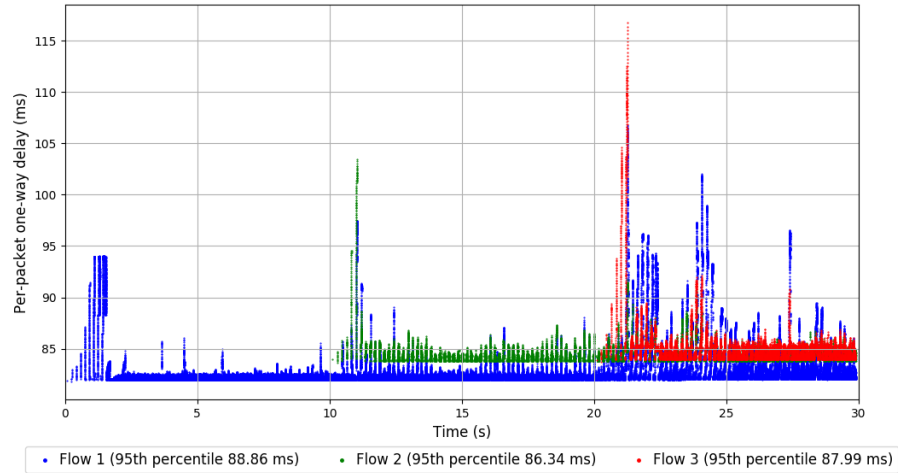
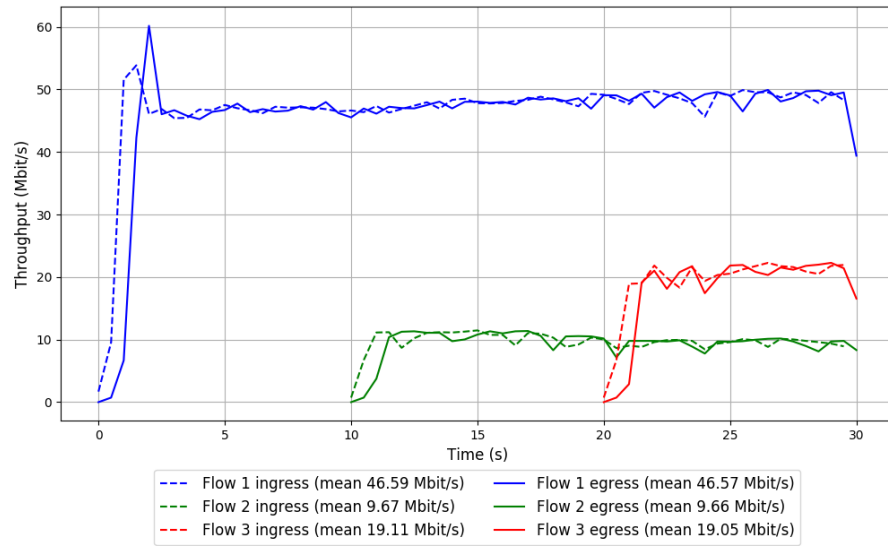
-- Flow 3:

Average throughput: 19.05 Mbit/s

95th percentile per-packet one-way delay: 87.992 ms

Loss rate: 1.99%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-08-10 03:04:21

End at: 2018-08-10 03:04:51

Local clock offset: -3.213 ms

Remote clock offset: 4.78 ms

Below is generated by plot.py at 2018-08-10 05:09:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 43.19 Mbit/s

95th percentile per-packet one-way delay: 87.887 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 17.00 Mbit/s

95th percentile per-packet one-way delay: 85.736 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 34.88 Mbit/s

95th percentile per-packet one-way delay: 88.485 ms

Loss rate: 0.86%

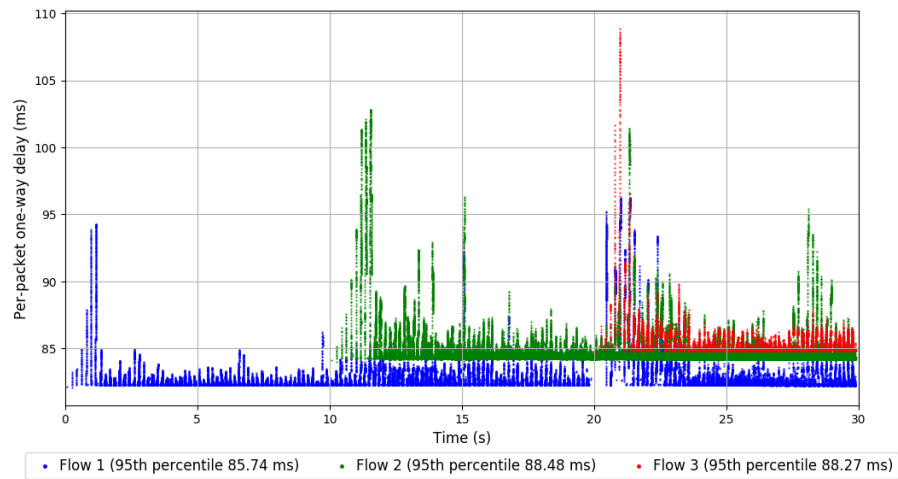
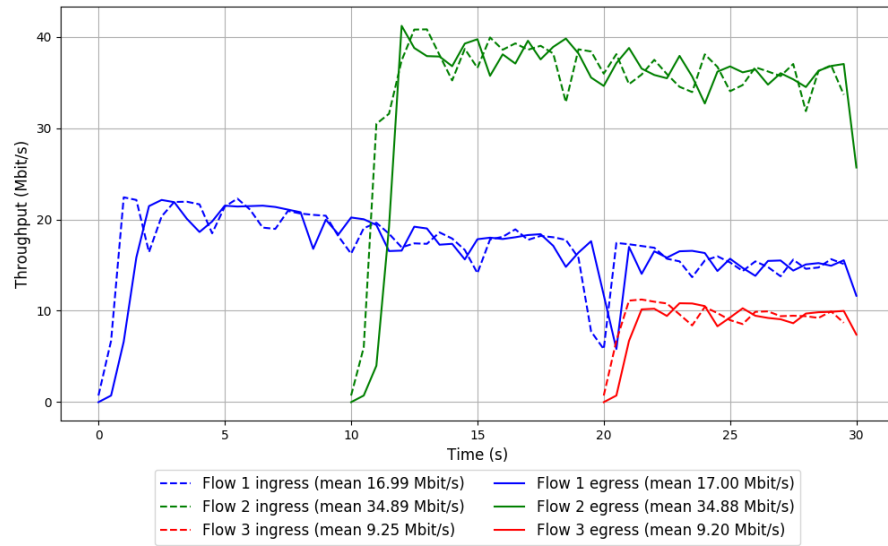
-- Flow 3:

Average throughput: 9.20 Mbit/s

95th percentile per-packet one-way delay: 88.269 ms

Loss rate: 1.52%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-08-10 03:25:31

End at: 2018-08-10 03:26:01

Local clock offset: -3.813 ms

Remote clock offset: 7.989 ms

Below is generated by plot.py at 2018-08-10 05:09:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.87 Mbit/s

95th percentile per-packet one-way delay: 92.301 ms

Loss rate: 1.01%

-- Flow 1:

Average throughput: 8.10 Mbit/s

95th percentile per-packet one-way delay: 81.369 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 39.96 Mbit/s

95th percentile per-packet one-way delay: 92.232 ms

Loss rate: 0.94%

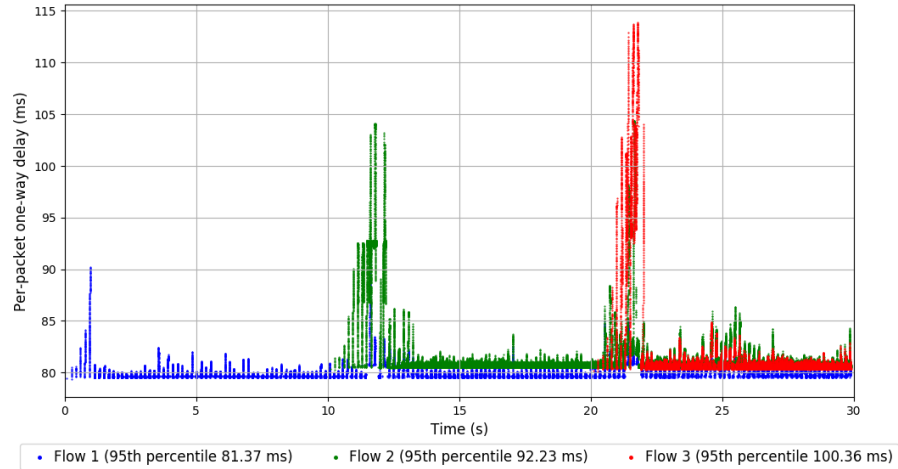
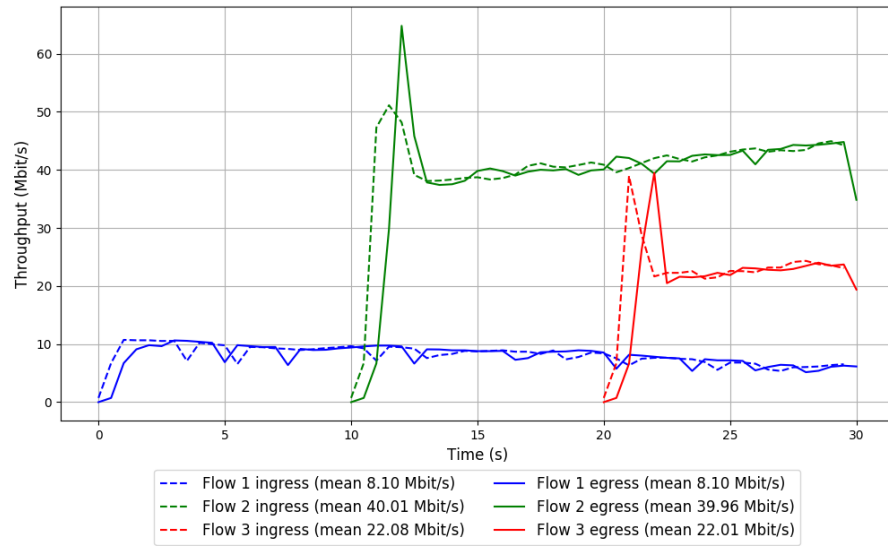
-- Flow 3:

Average throughput: 22.01 Mbit/s

95th percentile per-packet one-way delay: 100.363 ms

Loss rate: 1.88%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-08-10 03:46:37

End at: 2018-08-10 03:47:07

Local clock offset: -4.974 ms

Remote clock offset: 2.448 ms

Below is generated by plot.py at 2018-08-10 05:09:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 52.65 Mbit/s

95th percentile per-packet one-way delay: 93.618 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 27.97 Mbit/s

95th percentile per-packet one-way delay: 90.684 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 26.67 Mbit/s

95th percentile per-packet one-way delay: 95.643 ms

Loss rate: 0.97%

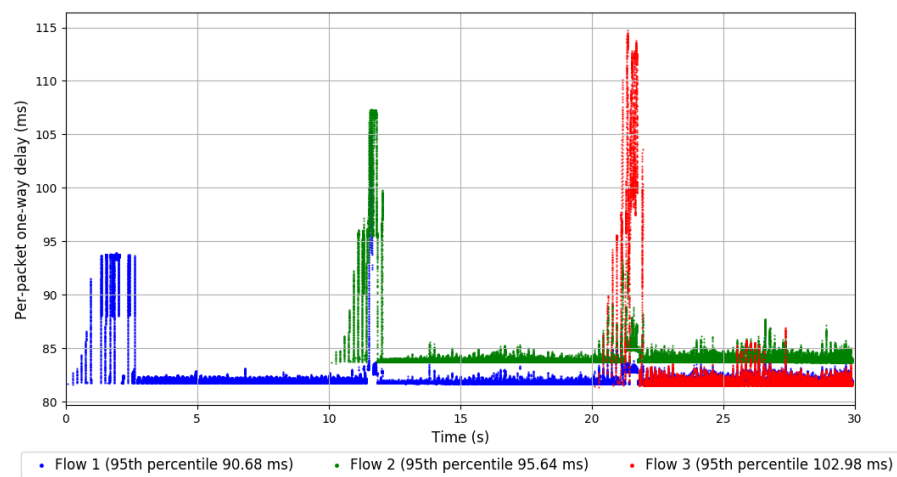
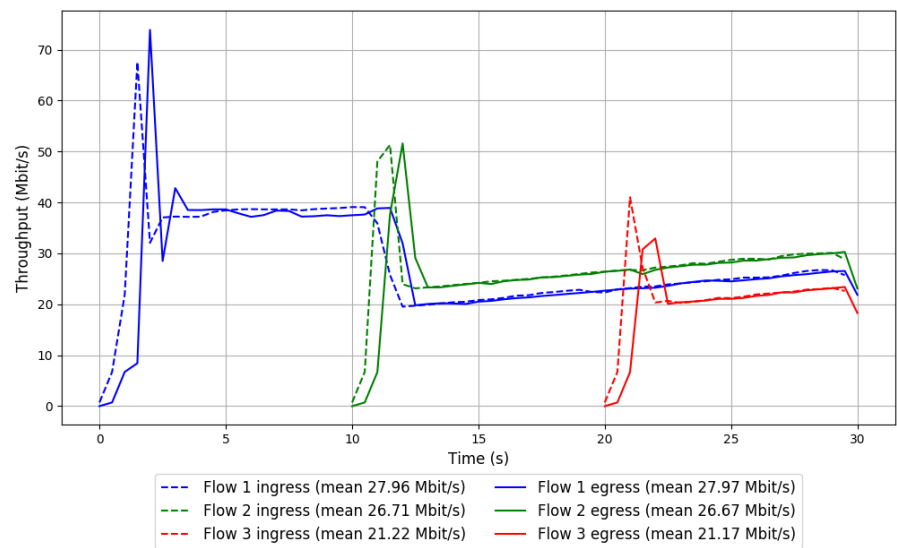
-- Flow 3:

Average throughput: 21.17 Mbit/s

95th percentile per-packet one-way delay: 102.982 ms

Loss rate: 1.85%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-08-10 04:07:50

End at: 2018-08-10 04:08:20

Local clock offset: -3.092 ms

Remote clock offset: 6.587 ms

Below is generated by plot.py at 2018-08-10 05:09:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 55.78 Mbit/s

95th percentile per-packet one-way delay: 91.665 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 33.18 Mbit/s

95th percentile per-packet one-way delay: 90.163 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 23.87 Mbit/s

95th percentile per-packet one-way delay: 90.654 ms

Loss rate: 0.98%

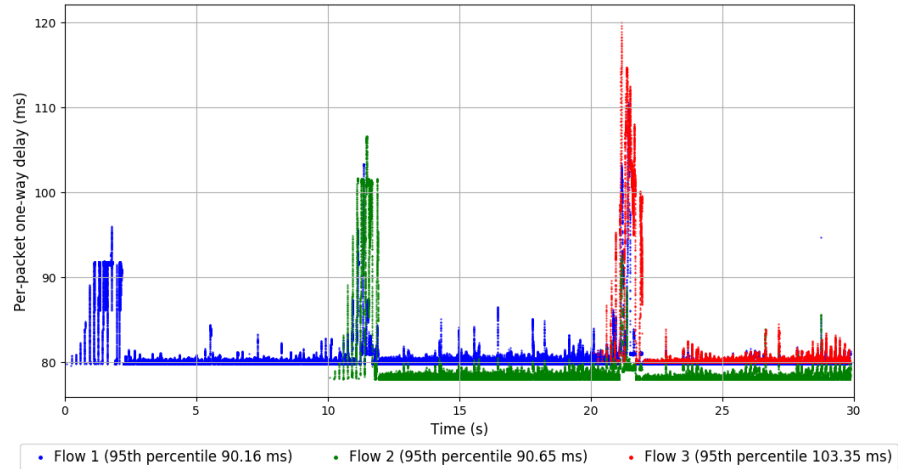
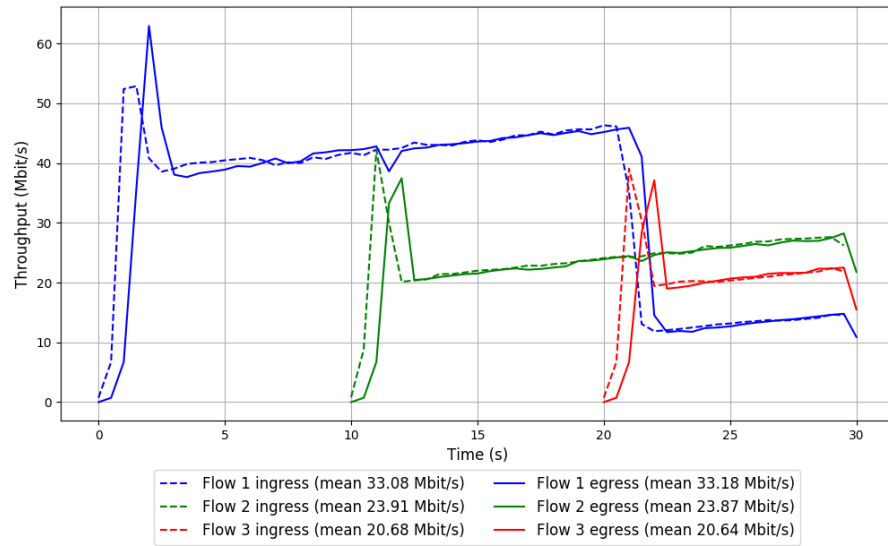
-- Flow 3:

Average throughput: 20.64 Mbit/s

95th percentile per-packet one-way delay: 103.353 ms

Loss rate: 1.85%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-08-10 04:28:58

End at: 2018-08-10 04:29:28

Local clock offset: -3.038 ms

Remote clock offset: 2.819 ms

Below is generated by plot.py at 2018-08-10 05:09:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 47.34 Mbit/s

95th percentile per-packet one-way delay: 88.506 ms

Loss rate: 1.37%

-- Flow 1:

Average throughput: 21.86 Mbit/s

95th percentile per-packet one-way delay: 90.122 ms

Loss rate: 1.07%

-- Flow 2:

Average throughput: 27.48 Mbit/s

95th percentile per-packet one-way delay: 83.347 ms

Loss rate: 1.29%

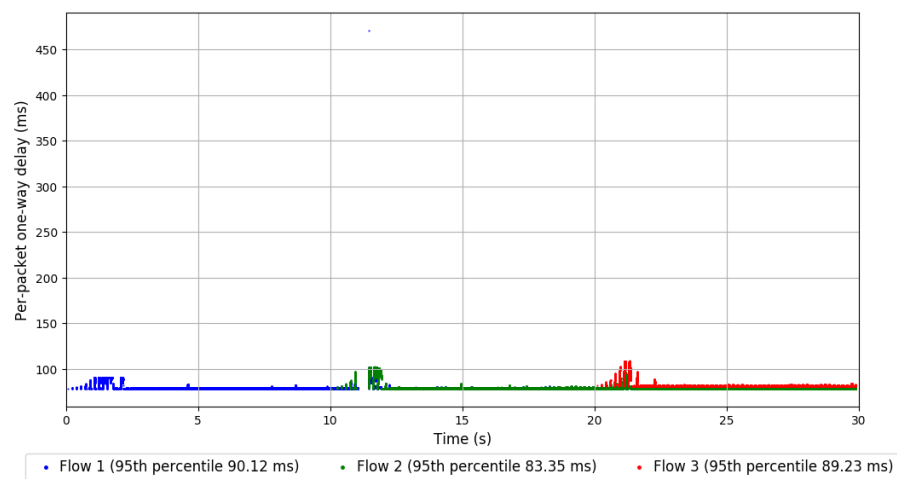
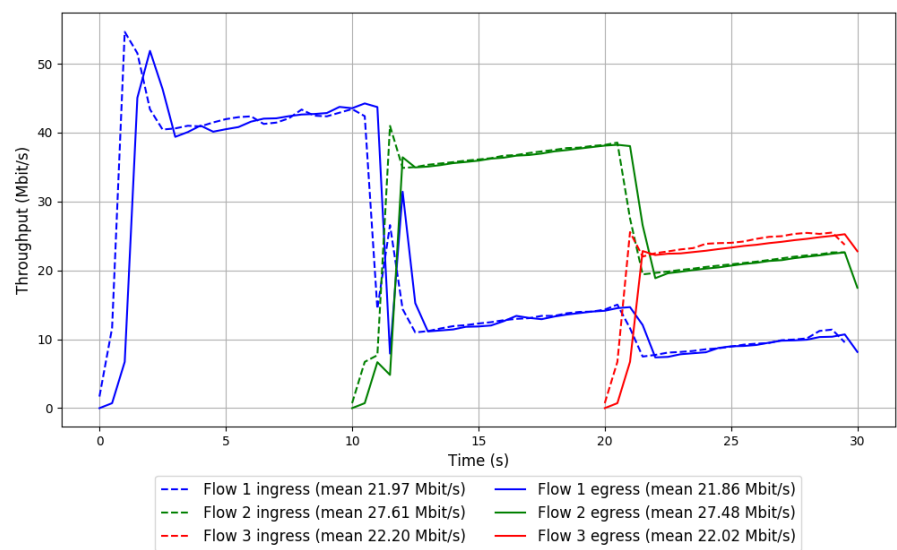
-- Flow 3:

Average throughput: 22.02 Mbit/s

95th percentile per-packet one-way delay: 89.226 ms

Loss rate: 2.43%

Run 9: Report of TCP Vegas — Data Link

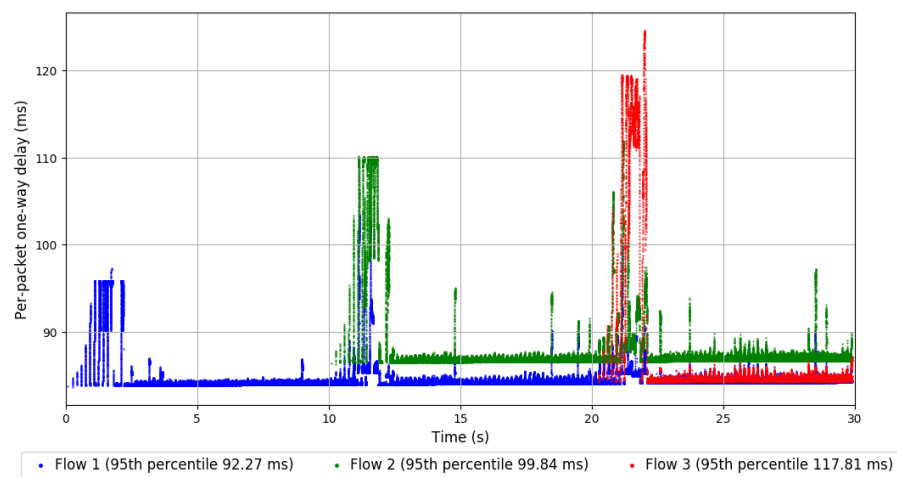
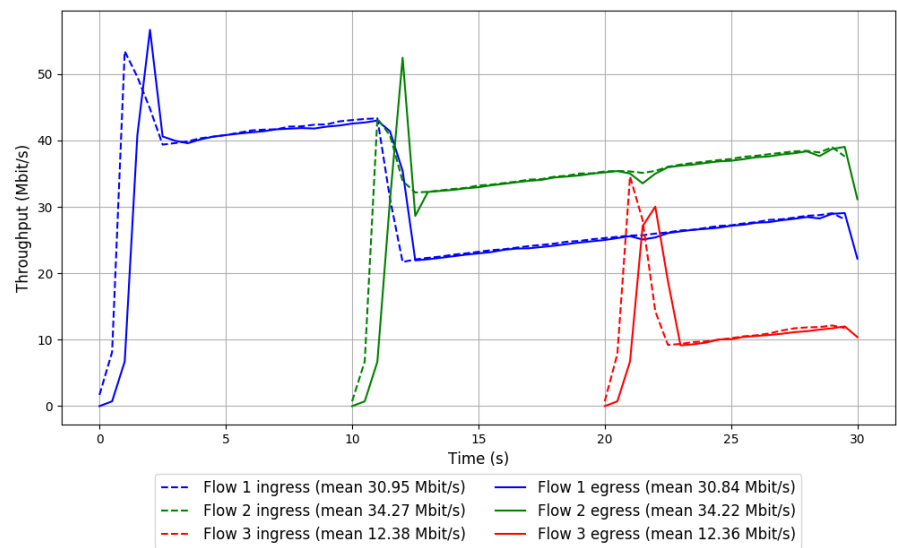


Run 10: Statistics of TCP Vegas

Start at: 2018-08-10 04:50:19
End at: 2018-08-10 04:50:49
Local clock offset: -4.221 ms
Remote clock offset: -0.581 ms

Below is generated by plot.py at 2018-08-10 05:09:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 57.63 Mbit/s
95th percentile per-packet one-way delay: 95.798 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 30.84 Mbit/s
95th percentile per-packet one-way delay: 92.265 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 34.22 Mbit/s
95th percentile per-packet one-way delay: 99.841 ms
Loss rate: 0.96%
-- Flow 3:
Average throughput: 12.36 Mbit/s
95th percentile per-packet one-way delay: 117.814 ms
Loss rate: 1.75%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-08-10 01:26:24

End at: 2018-08-10 01:26:54

Local clock offset: -3.645 ms

Remote clock offset: 6.111 ms

Below is generated by plot.py at 2018-08-10 05:09:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 62.49 Mbit/s

95th percentile per-packet one-way delay: 111.502 ms

Loss rate: 1.15%

-- Flow 1:

Average throughput: 38.50 Mbit/s

95th percentile per-packet one-way delay: 106.285 ms

Loss rate: 0.70%

-- Flow 2:

Average throughput: 29.03 Mbit/s

95th percentile per-packet one-way delay: 113.422 ms

Loss rate: 1.66%

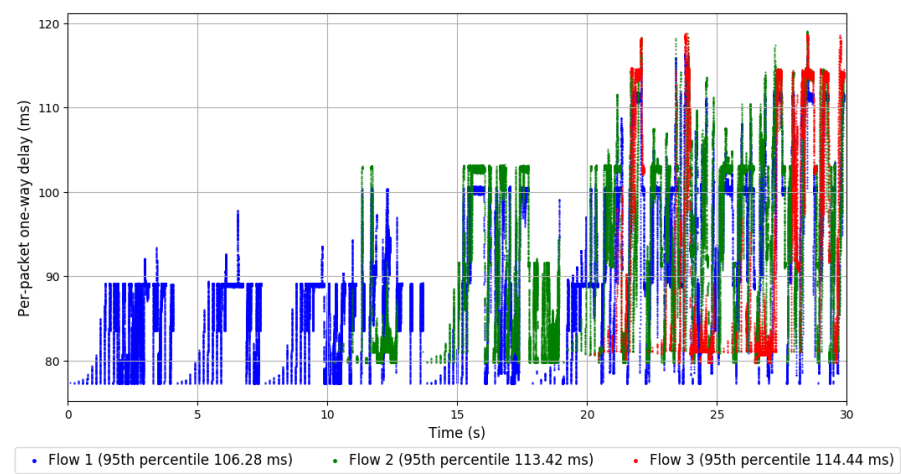
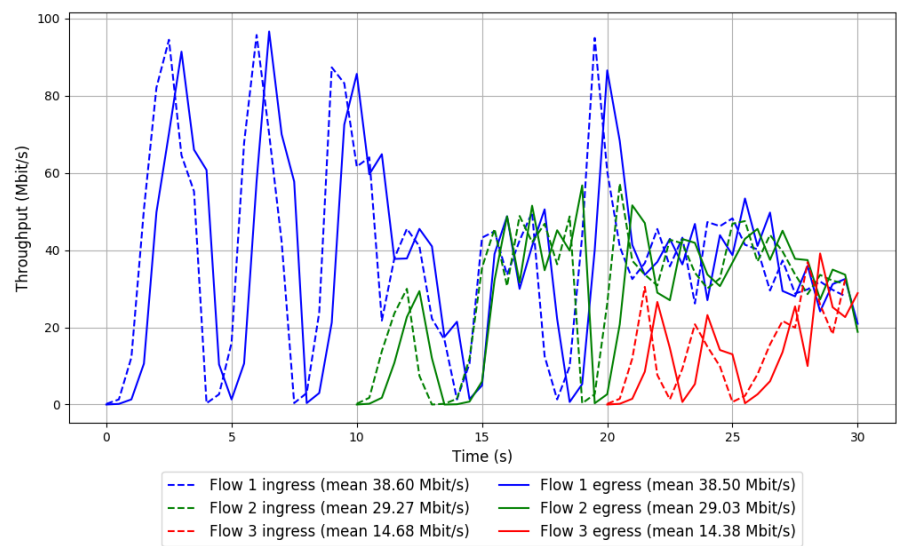
-- Flow 3:

Average throughput: 14.38 Mbit/s

95th percentile per-packet one-way delay: 114.437 ms

Loss rate: 2.68%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-08-10 01:47:30

End at: 2018-08-10 01:48:00

Local clock offset: -3.689 ms

Remote clock offset: 7.682 ms

Below is generated by plot.py at 2018-08-10 05:09:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 55.94 Mbit/s

95th percentile per-packet one-way delay: 108.274 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 31.93 Mbit/s

95th percentile per-packet one-way delay: 101.560 ms

Loss rate: 0.85%

-- Flow 2:

Average throughput: 28.41 Mbit/s

95th percentile per-packet one-way delay: 110.276 ms

Loss rate: 1.20%

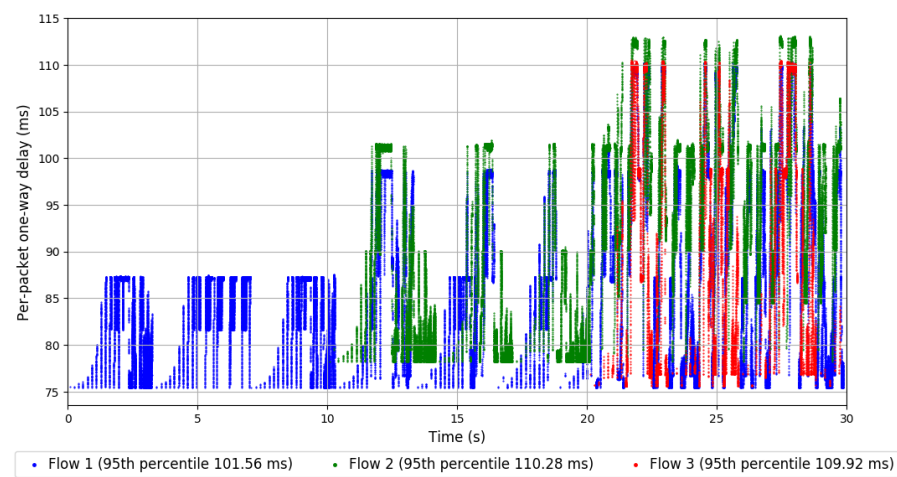
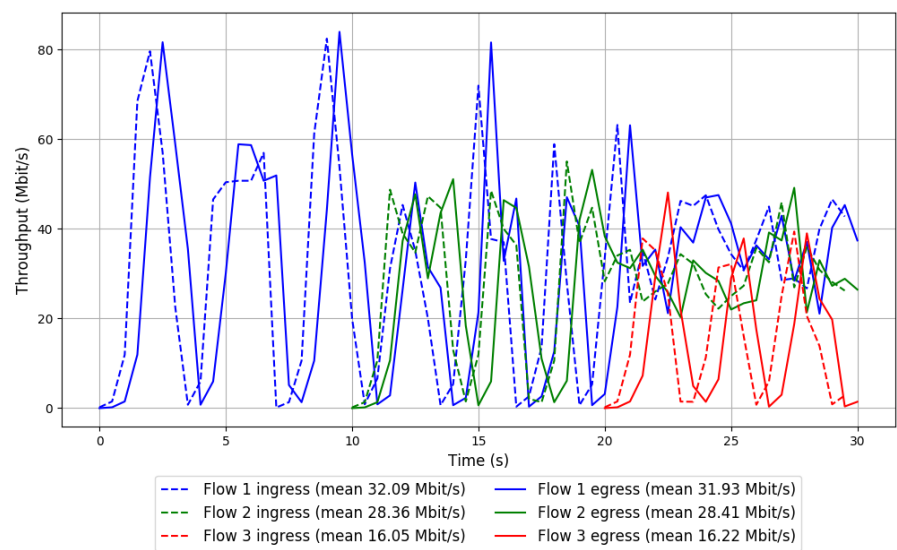
-- Flow 3:

Average throughput: 16.22 Mbit/s

95th percentile per-packet one-way delay: 109.915 ms

Loss rate: 0.86%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-08-10 02:08:35

End at: 2018-08-10 02:09:05

Local clock offset: -2.87 ms

Remote clock offset: 2.04 ms

Below is generated by plot.py at 2018-08-10 05:10:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 58.36 Mbit/s

95th percentile per-packet one-way delay: 116.858 ms

Loss rate: 1.00%

-- Flow 1:

Average throughput: 33.24 Mbit/s

95th percentile per-packet one-way delay: 113.728 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 28.07 Mbit/s

95th percentile per-packet one-way delay: 116.156 ms

Loss rate: 1.22%

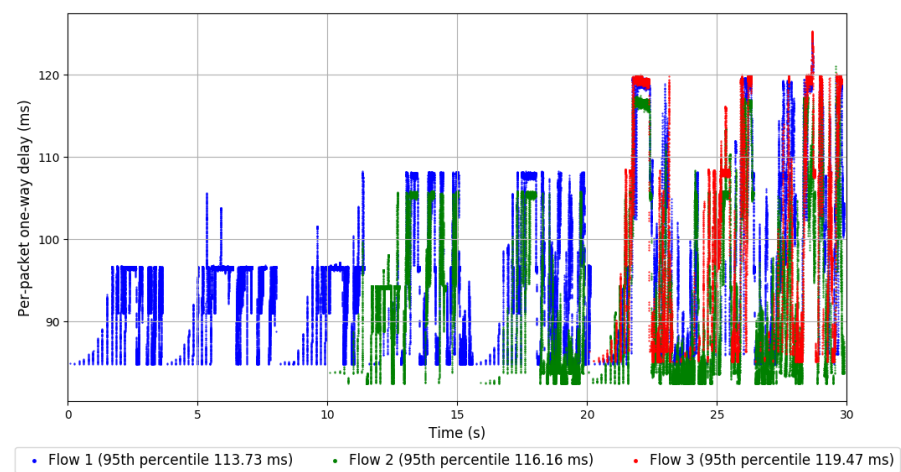
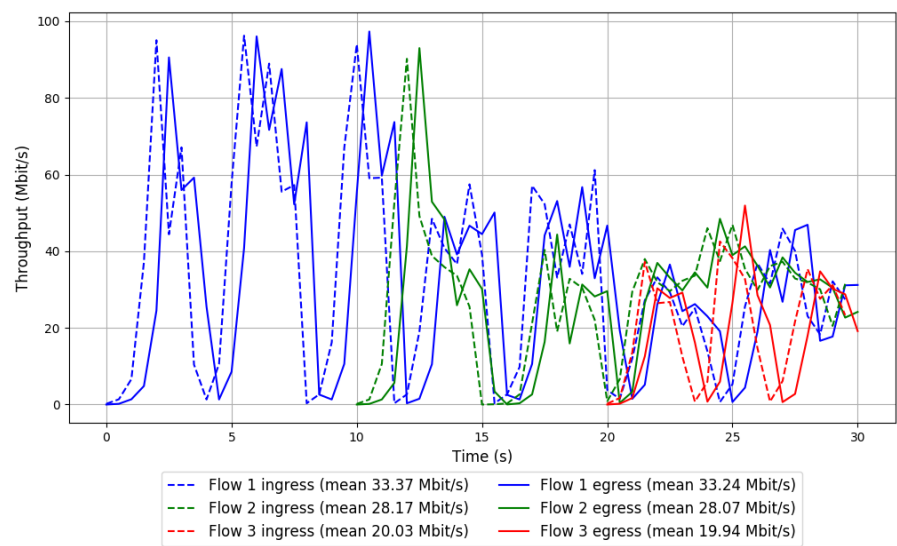
-- Flow 3:

Average throughput: 19.94 Mbit/s

95th percentile per-packet one-way delay: 119.468 ms

Loss rate: 3.16%

Run 3: Report of Verus — Data Link

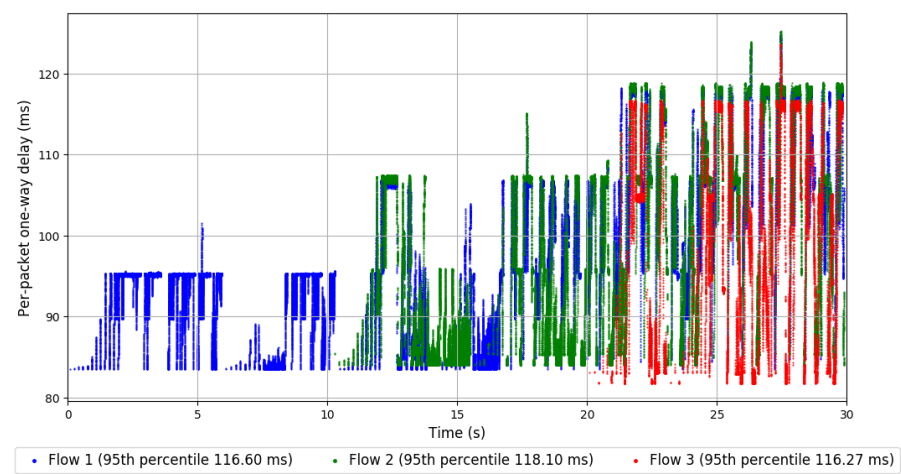
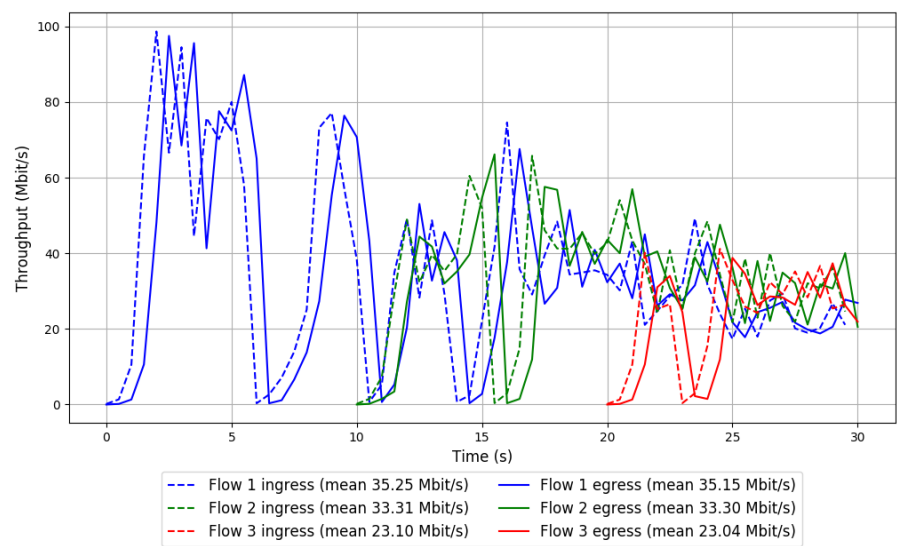


Run 4: Statistics of Verus

Start at: 2018-08-10 02:29:41
End at: 2018-08-10 02:30:11
Local clock offset: -3.419 ms
Remote clock offset: 3.223 ms

Below is generated by plot.py at 2018-08-10 05:10:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 64.78 Mbit/s
95th percentile per-packet one-way delay: 117.330 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 35.15 Mbit/s
95th percentile per-packet one-way delay: 116.603 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 33.30 Mbit/s
95th percentile per-packet one-way delay: 118.098 ms
Loss rate: 0.89%
-- Flow 3:
Average throughput: 23.04 Mbit/s
95th percentile per-packet one-way delay: 116.266 ms
Loss rate: 2.56%

Run 4: Report of Verus — Data Link

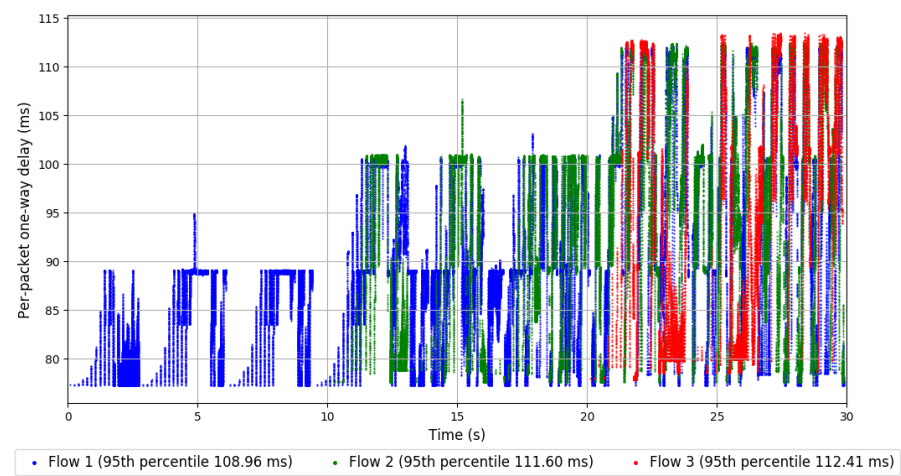
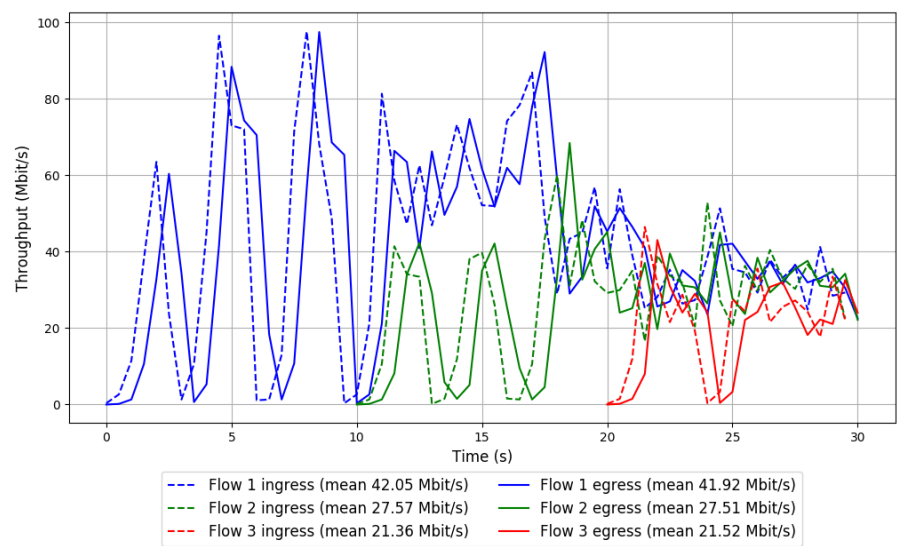


Run 5: Statistics of Verus

Start at: 2018-08-10 02:50:44
End at: 2018-08-10 02:51:14
Local clock offset: -2.652 ms
Remote clock offset: 9.975 ms

Below is generated by plot.py at 2018-08-10 05:10:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 67.17 Mbit/s
95th percentile per-packet one-way delay: 111.225 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 41.92 Mbit/s
95th percentile per-packet one-way delay: 108.959 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 27.51 Mbit/s
95th percentile per-packet one-way delay: 111.600 ms
Loss rate: 1.12%
-- Flow 3:
Average throughput: 21.52 Mbit/s
95th percentile per-packet one-way delay: 112.410 ms
Loss rate: 1.68%

Run 5: Report of Verus — Data Link

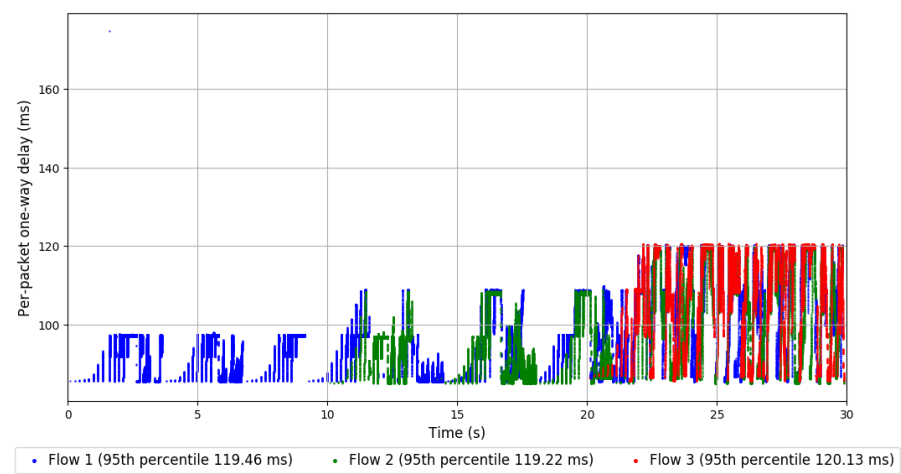
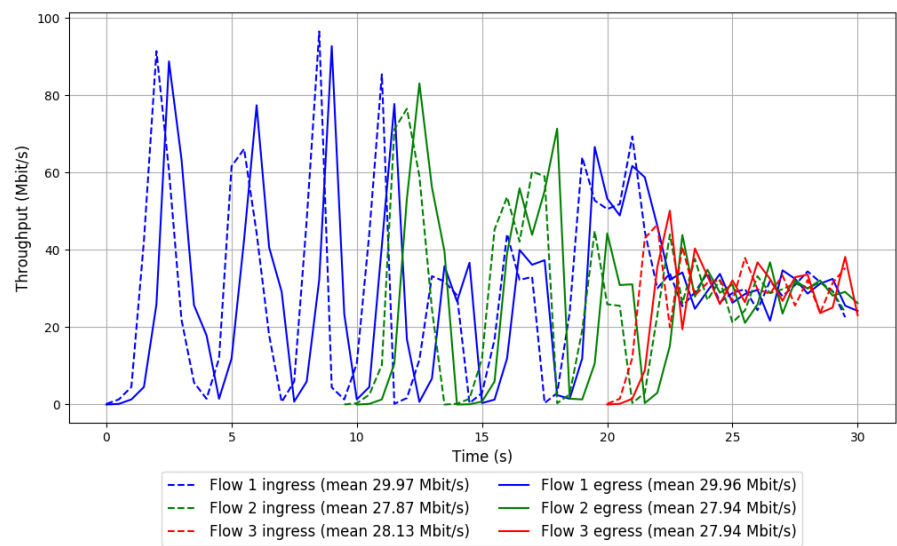


Run 6: Statistics of Verus

Start at: 2018-08-10 03:12:01
End at: 2018-08-10 03:12:31
Local clock offset: -2.403 ms
Remote clock offset: 3.795 ms

Below is generated by plot.py at 2018-08-10 05:10:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 57.66 Mbit/s
95th percentile per-packet one-way delay: 119.601 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 29.96 Mbit/s
95th percentile per-packet one-way delay: 119.461 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 27.94 Mbit/s
95th percentile per-packet one-way delay: 119.220 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 27.94 Mbit/s
95th percentile per-packet one-way delay: 120.126 ms
Loss rate: 2.54%

Run 6: Report of Verus — Data Link

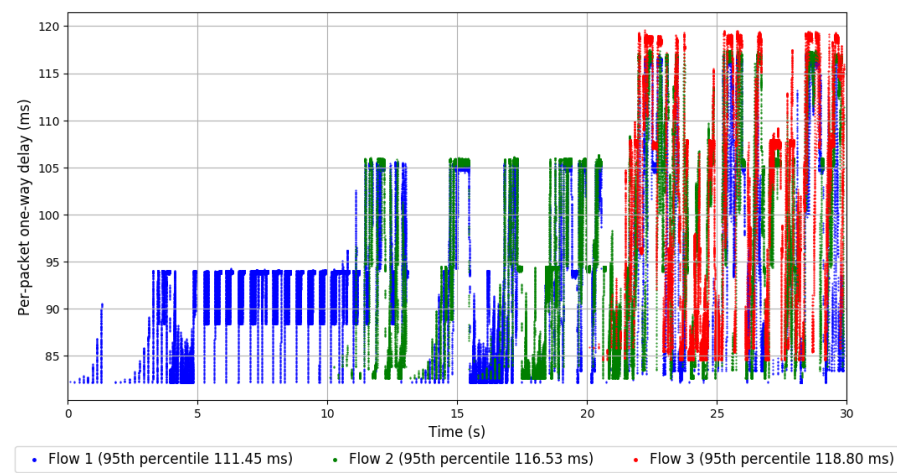
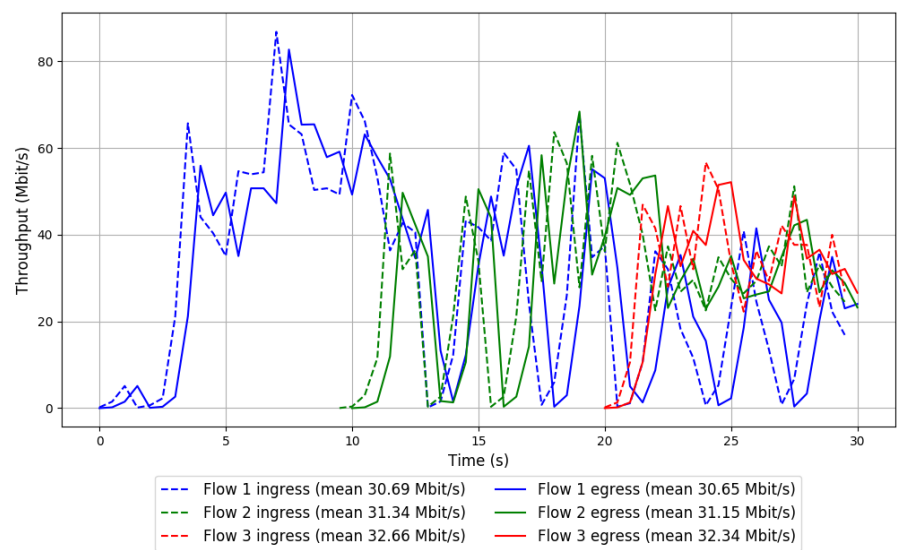


Run 7: Statistics of Verus

Start at: 2018-08-10 03:33:07
End at: 2018-08-10 03:33:37
Local clock offset: -4.065 ms
Remote clock offset: 3.198 ms

Below is generated by plot.py at 2018-08-10 05:10:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 61.97 Mbit/s
95th percentile per-packet one-way delay: 116.503 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 30.65 Mbit/s
95th percentile per-packet one-way delay: 111.449 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 31.15 Mbit/s
95th percentile per-packet one-way delay: 116.533 ms
Loss rate: 0.97%
-- Flow 3:
Average throughput: 32.34 Mbit/s
95th percentile per-packet one-way delay: 118.803 ms
Loss rate: 1.60%

Run 7: Report of Verus — Data Link

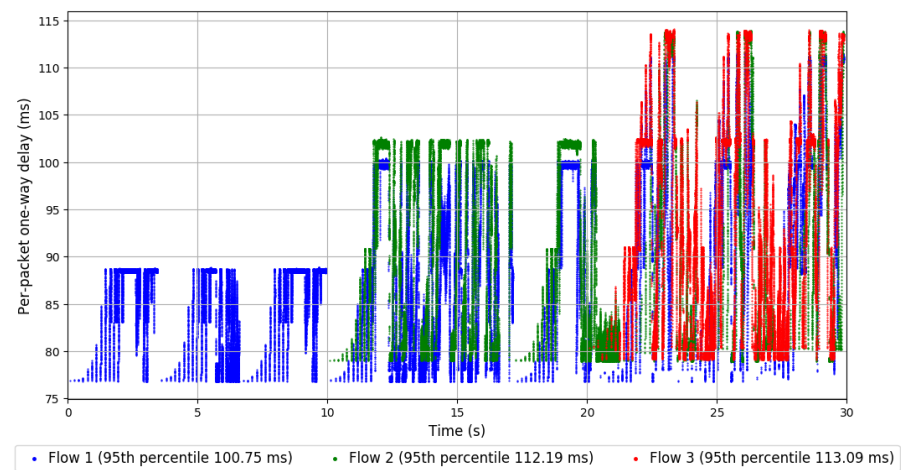
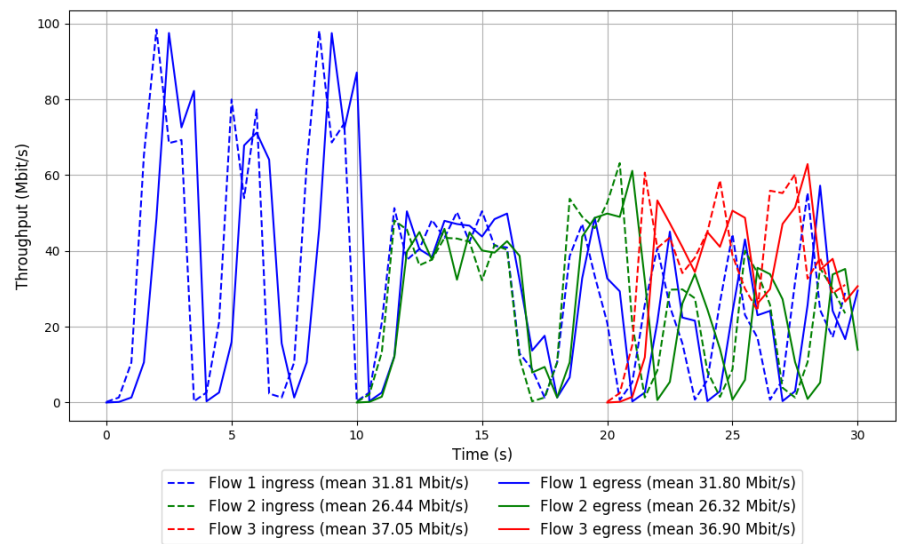


Run 8: Statistics of Verus

Start at: 2018-08-10 03:54:12
End at: 2018-08-10 03:54:42
Local clock offset: -3.517 ms
Remote clock offset: 7.858 ms

Below is generated by plot.py at 2018-08-10 05:10:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 61.41 Mbit/s
95th percentile per-packet one-way delay: 107.745 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 31.80 Mbit/s
95th percentile per-packet one-way delay: 100.745 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 26.32 Mbit/s
95th percentile per-packet one-way delay: 112.194 ms
Loss rate: 1.28%
-- Flow 3:
Average throughput: 36.90 Mbit/s
95th percentile per-packet one-way delay: 113.089 ms
Loss rate: 1.50%

Run 8: Report of Verus — Data Link

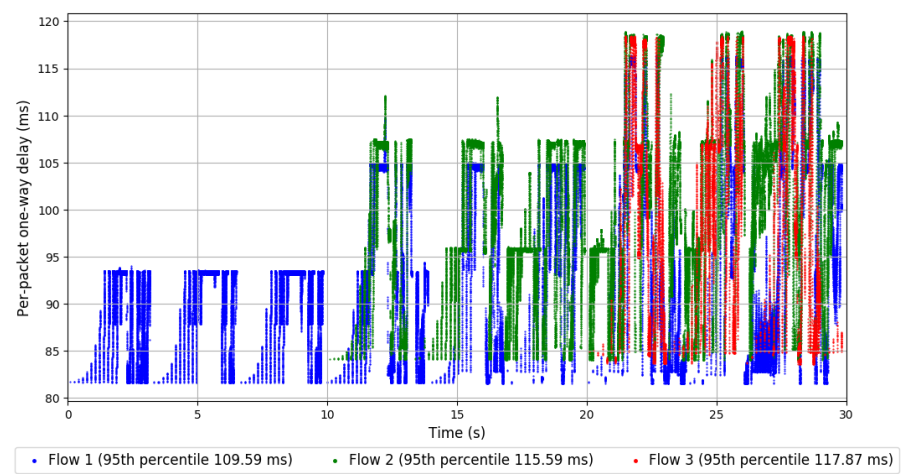
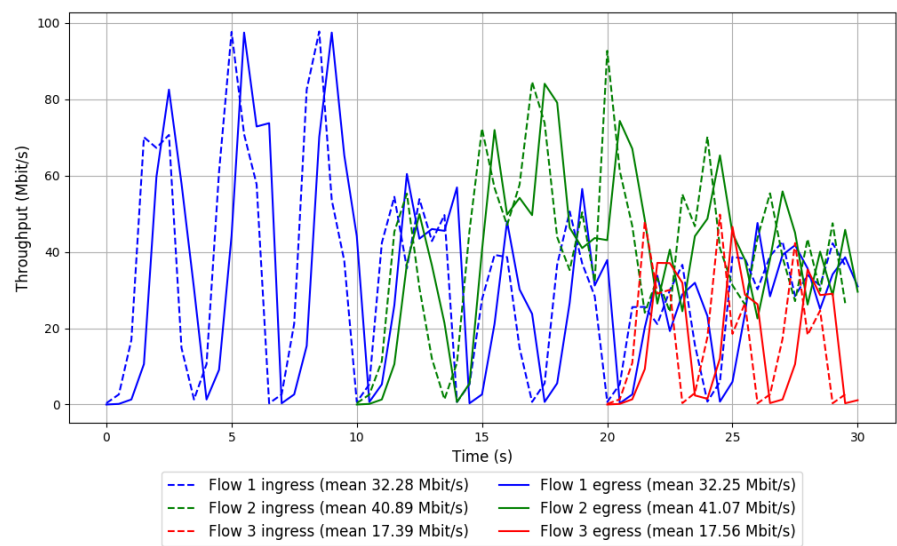


Run 9: Statistics of Verus

Start at: 2018-08-10 04:15:24
End at: 2018-08-10 04:15:54
Local clock offset: -3.771 ms
Remote clock offset: 1.075 ms

Below is generated by plot.py at 2018-08-10 05:10:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 65.23 Mbit/s
95th percentile per-packet one-way delay: 114.814 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 32.25 Mbit/s
95th percentile per-packet one-way delay: 109.592 ms
Loss rate: 0.93%
-- Flow 2:
Average throughput: 41.07 Mbit/s
95th percentile per-packet one-way delay: 115.588 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 17.56 Mbit/s
95th percentile per-packet one-way delay: 117.868 ms
Loss rate: 0.69%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-08-10 04:36:31

End at: 2018-08-10 04:37:01

Local clock offset: -3.806 ms

Remote clock offset: 4.34 ms

Below is generated by plot.py at 2018-08-10 05:10:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 54.82 Mbit/s

95th percentile per-packet one-way delay: 108.052 ms

Loss rate: 12.48%

-- Flow 1:

Average throughput: 32.21 Mbit/s

95th percentile per-packet one-way delay: 106.155 ms

Loss rate: 10.93%

-- Flow 2:

Average throughput: 23.16 Mbit/s

95th percentile per-packet one-way delay: 105.518 ms

Loss rate: 13.78%

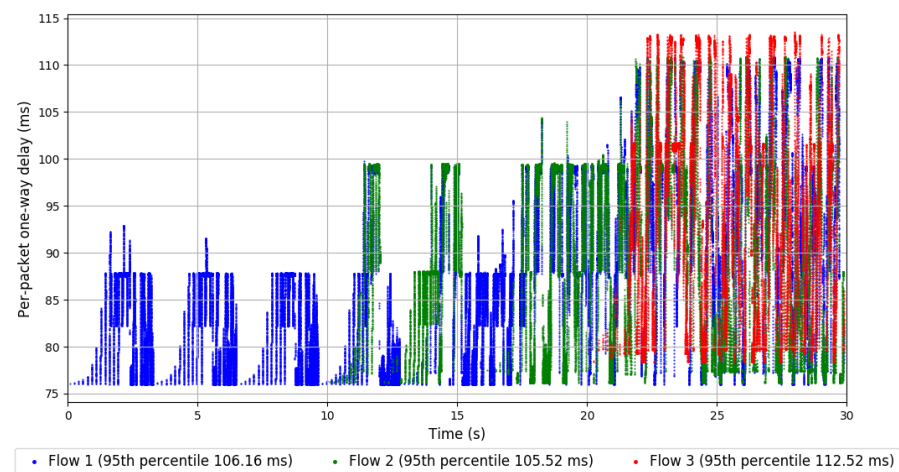
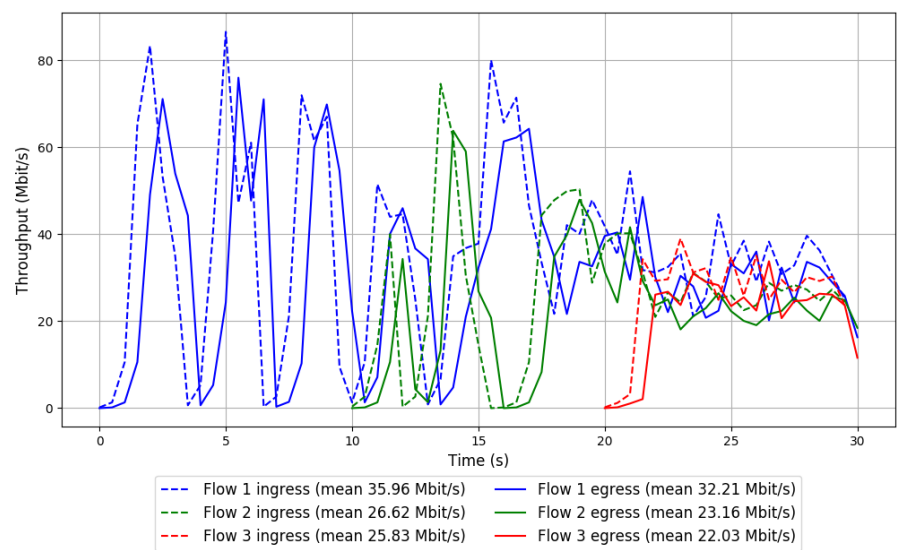
-- Flow 3:

Average throughput: 22.03 Mbit/s

95th percentile per-packet one-way delay: 112.517 ms

Loss rate: 16.29%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-08-10 01:33:46

End at: 2018-08-10 01:34:16

Local clock offset: -2.857 ms

Remote clock offset: 7.693 ms

Below is generated by plot.py at 2018-08-10 05:10:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 22.67 Mbit/s

95th percentile per-packet one-way delay: 78.452 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 19.44 Mbit/s

95th percentile per-packet one-way delay: 76.595 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 3.42 Mbit/s

95th percentile per-packet one-way delay: 78.549 ms

Loss rate: 1.34%

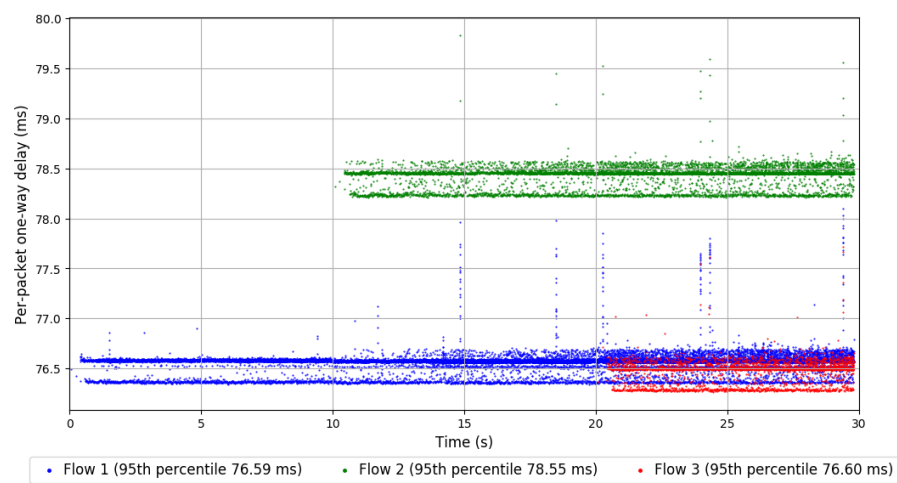
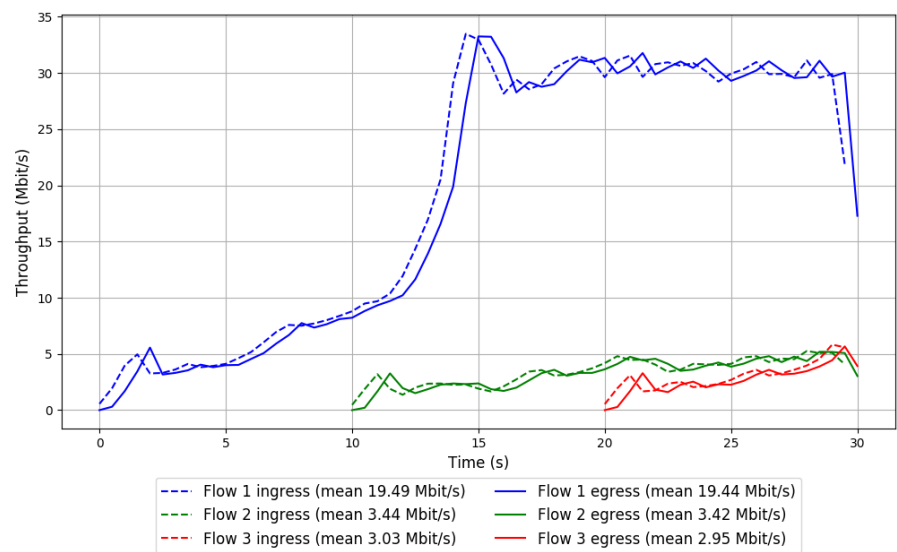
-- Flow 3:

Average throughput: 2.95 Mbit/s

95th percentile per-packet one-way delay: 76.604 ms

Loss rate: 4.33%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-08-10 01:54:57

End at: 2018-08-10 01:55:27

Local clock offset: -2.884 ms

Remote clock offset: 2.976 ms

Below is generated by plot.py at 2018-08-10 05:10:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 44.45 Mbit/s

95th percentile per-packet one-way delay: 86.831 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 37.91 Mbit/s

95th percentile per-packet one-way delay: 89.626 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 2.77 Mbit/s

95th percentile per-packet one-way delay: 81.809 ms

Loss rate: 0.73%

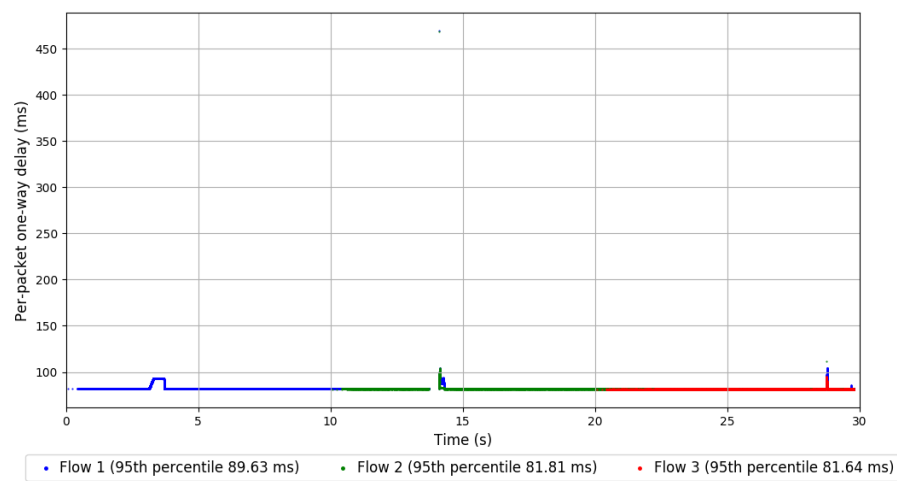
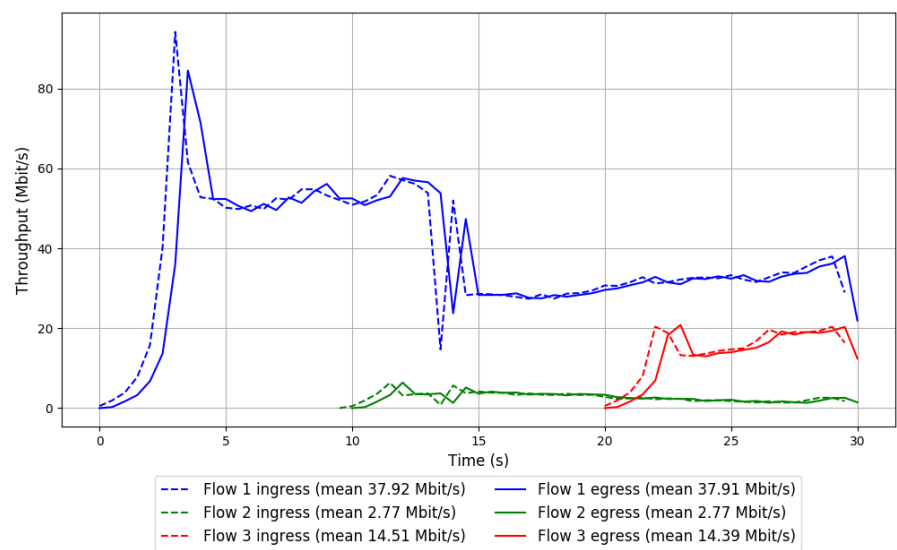
-- Flow 3:

Average throughput: 14.39 Mbit/s

95th percentile per-packet one-way delay: 81.640 ms

Loss rate: 2.54%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-08-10 02:15:58

End at: 2018-08-10 02:16:28

Local clock offset: -2.888 ms

Remote clock offset: 3.267 ms

Below is generated by plot.py at 2018-08-10 05:11:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 54.12 Mbit/s

95th percentile per-packet one-way delay: 112.905 ms

Loss rate: 1.38%

-- Flow 1:

Average throughput: 37.06 Mbit/s

95th percentile per-packet one-way delay: 113.337 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 18.23 Mbit/s

95th percentile per-packet one-way delay: 85.137 ms

Loss rate: 1.32%

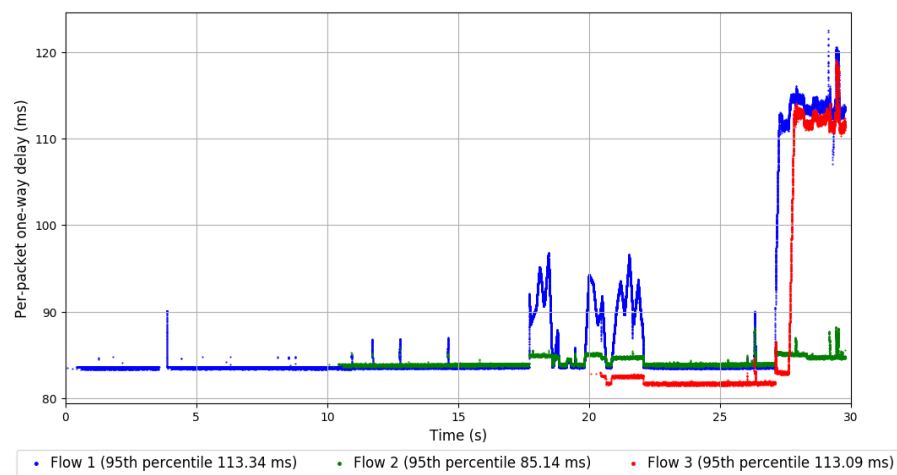
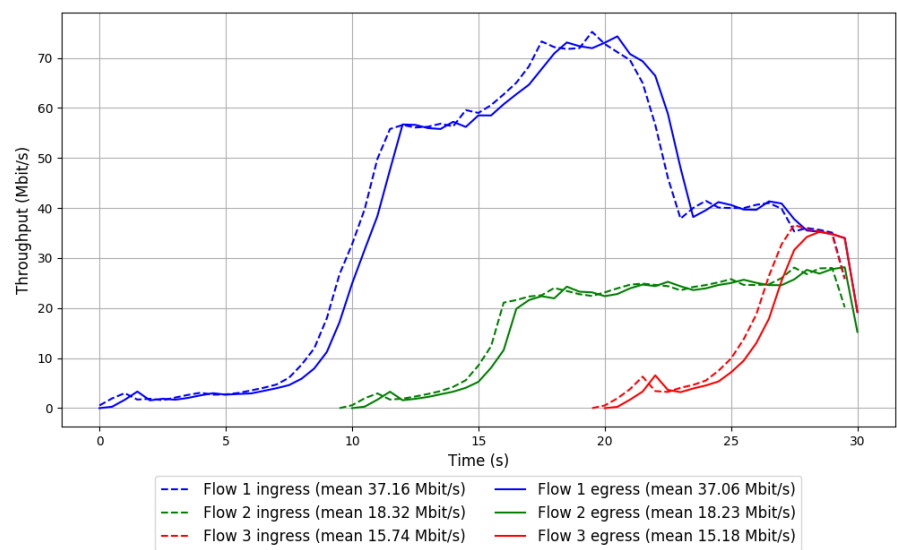
-- Flow 3:

Average throughput: 15.18 Mbit/s

95th percentile per-packet one-way delay: 113.093 ms

Loss rate: 5.25%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-08-10 02:37:04

End at: 2018-08-10 02:37:34

Local clock offset: -3.533 ms

Remote clock offset: 6.864 ms

Below is generated by plot.py at 2018-08-10 05:11:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 22.04 Mbit/s

95th percentile per-packet one-way delay: 81.384 ms

Loss rate: 1.35%

-- Flow 1:

Average throughput: 13.22 Mbit/s

95th percentile per-packet one-way delay: 79.038 ms

Loss rate: 1.19%

-- Flow 2:

Average throughput: 10.21 Mbit/s

95th percentile per-packet one-way delay: 79.040 ms

Loss rate: 1.31%

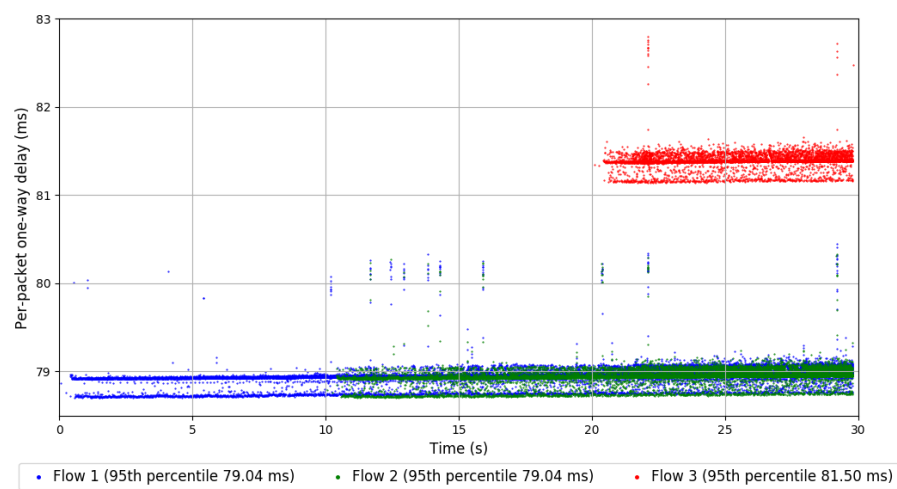
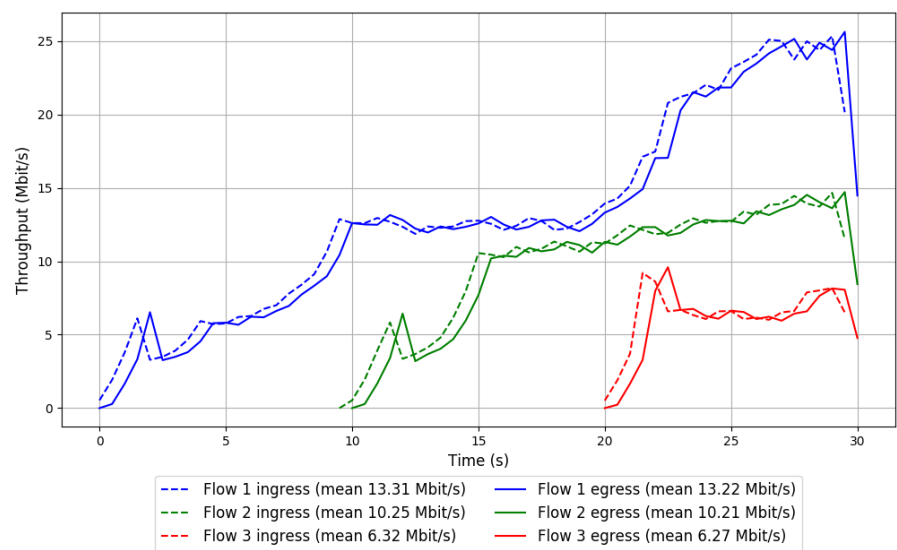
-- Flow 3:

Average throughput: 6.27 Mbit/s

95th percentile per-packet one-way delay: 81.498 ms

Loss rate: 2.50%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-08-10 02:58:05

End at: 2018-08-10 02:58:35

Local clock offset: -2.489 ms

Remote clock offset: 5.557 ms

Below is generated by plot.py at 2018-08-10 05:11:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.44 Mbit/s

95th percentile per-packet one-way delay: 106.492 ms

Loss rate: 4.29%

-- Flow 1:

Average throughput: 55.03 Mbit/s

95th percentile per-packet one-way delay: 106.228 ms

Loss rate: 5.57%

-- Flow 2:

Average throughput: 27.43 Mbit/s

95th percentile per-packet one-way delay: 92.940 ms

Loss rate: 1.03%

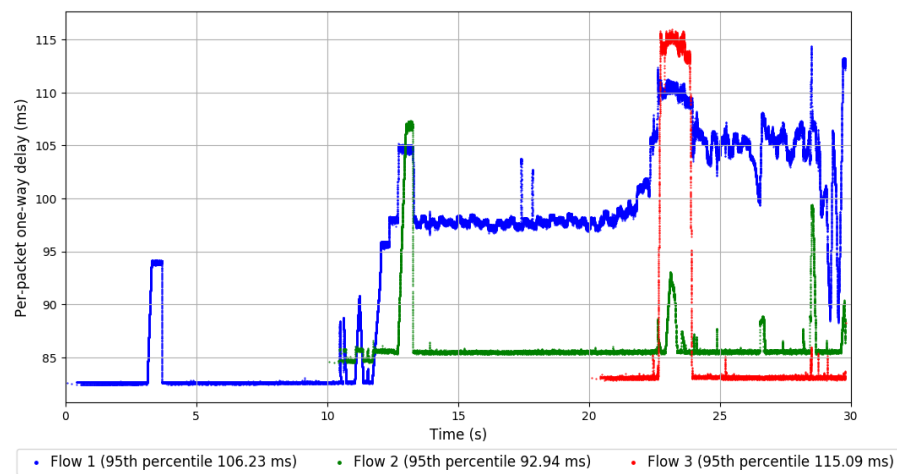
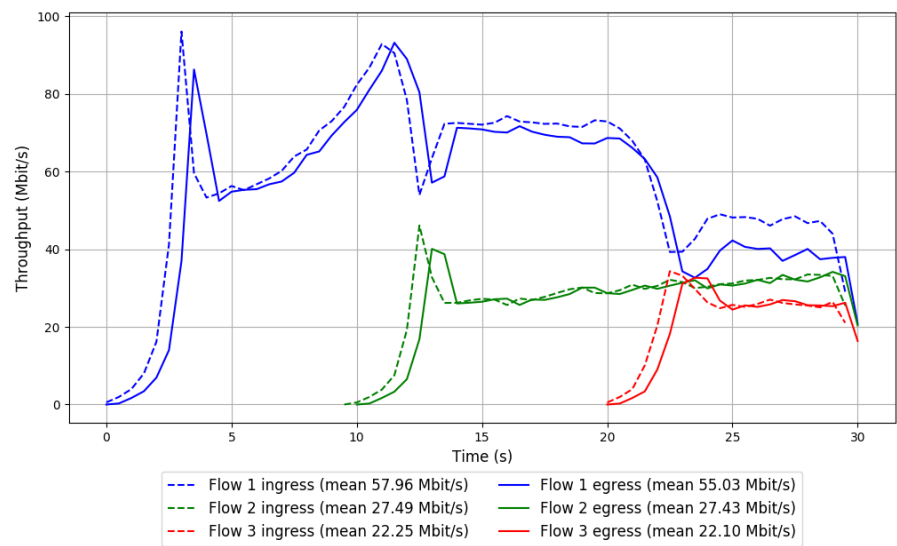
-- Flow 3:

Average throughput: 22.10 Mbit/s

95th percentile per-packet one-way delay: 115.086 ms

Loss rate: 2.29%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-08-10 03:19:21

End at: 2018-08-10 03:19:51

Local clock offset: -4.327 ms

Remote clock offset: 4.425 ms

Below is generated by plot.py at 2018-08-10 05:11:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.40 Mbit/s

95th percentile per-packet one-way delay: 84.446 ms

Loss rate: 1.01%

-- Flow 1:

Average throughput: 6.40 Mbit/s

95th percentile per-packet one-way delay: 83.235 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 62.08 Mbit/s

95th percentile per-packet one-way delay: 85.623 ms

Loss rate: 1.03%

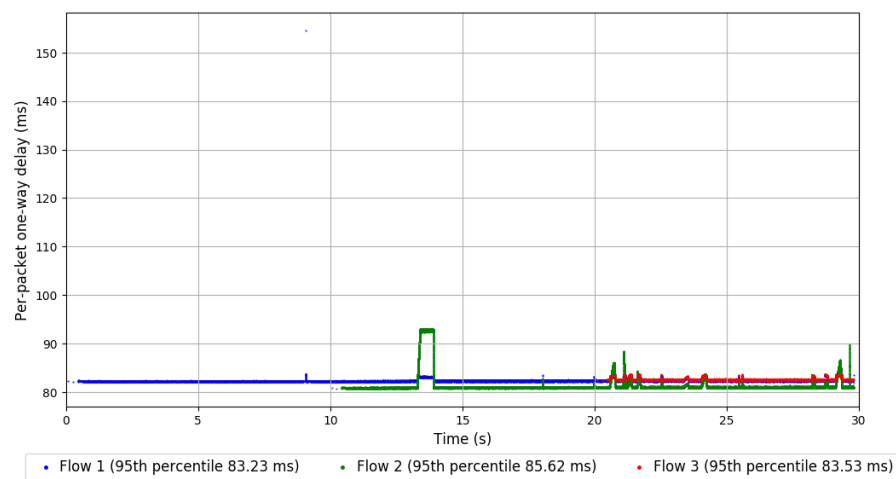
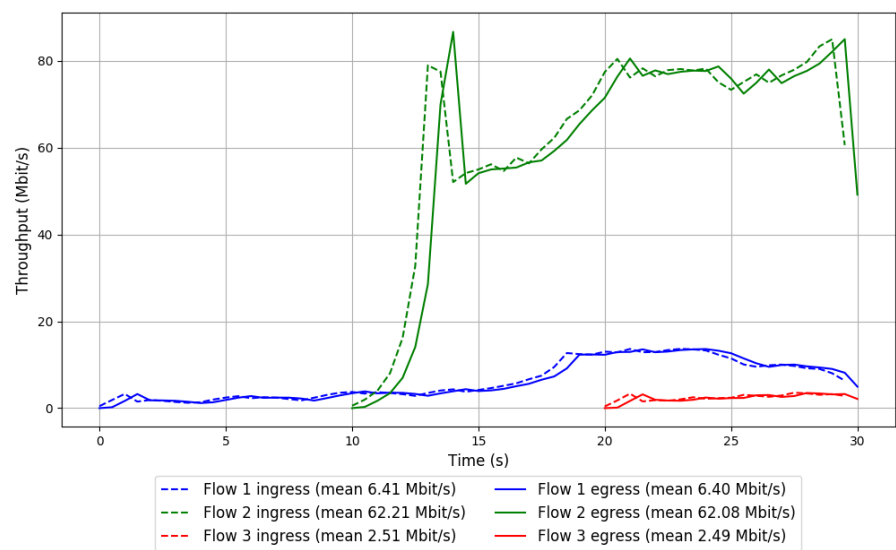
-- Flow 3:

Average throughput: 2.49 Mbit/s

95th percentile per-packet one-way delay: 83.529 ms

Loss rate: 2.48%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-08-10 03:40:27

End at: 2018-08-10 03:40:57

Local clock offset: -4.205 ms

Remote clock offset: 6.692 ms

Below is generated by plot.py at 2018-08-10 05:11:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 59.58 Mbit/s

95th percentile per-packet one-way delay: 81.122 ms

Loss rate: 2.72%

-- Flow 1:

Average throughput: 50.05 Mbit/s

95th percentile per-packet one-way delay: 81.128 ms

Loss rate: 2.68%

-- Flow 2:

Average throughput: 12.82 Mbit/s

95th percentile per-packet one-way delay: 78.595 ms

Loss rate: 2.81%

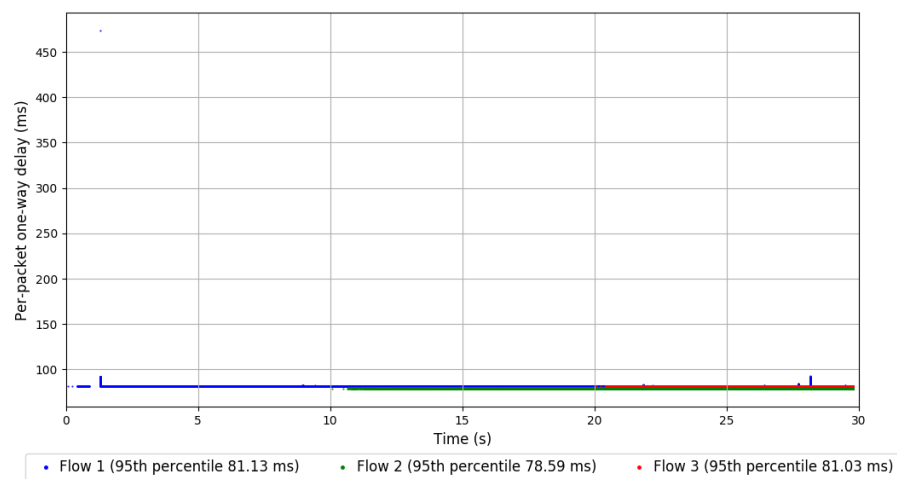
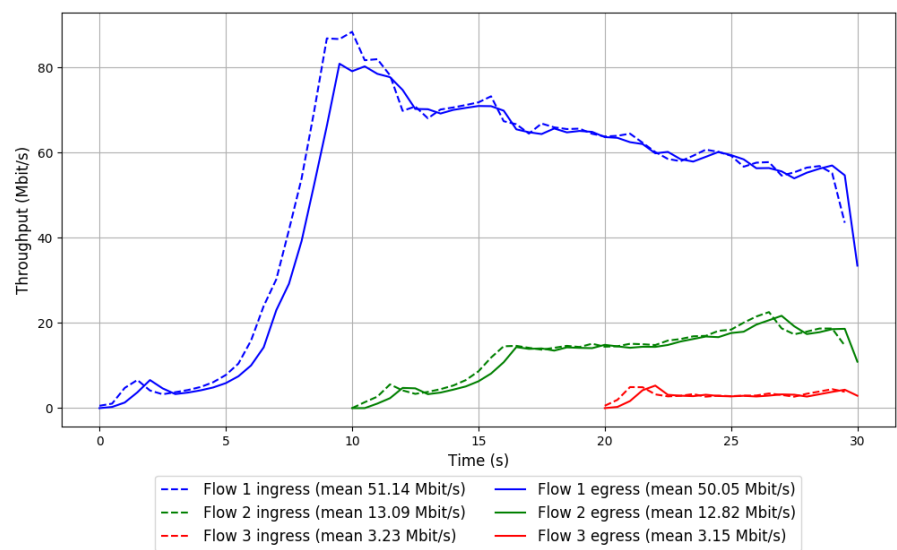
-- Flow 3:

Average throughput: 3.15 Mbit/s

95th percentile per-packet one-way delay: 81.029 ms

Loss rate: 4.11%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-08-10 04:01:34

End at: 2018-08-10 04:02:04

Local clock offset: -2.414 ms

Remote clock offset: 5.67 ms

Below is generated by plot.py at 2018-08-10 05:11:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.31 Mbit/s

95th percentile per-packet one-way delay: 105.573 ms

Loss rate: 2.48%

-- Flow 1:

Average throughput: 50.37 Mbit/s

95th percentile per-packet one-way delay: 100.627 ms

Loss rate: 2.73%

-- Flow 2:

Average throughput: 31.57 Mbit/s

95th percentile per-packet one-way delay: 113.780 ms

Loss rate: 1.90%

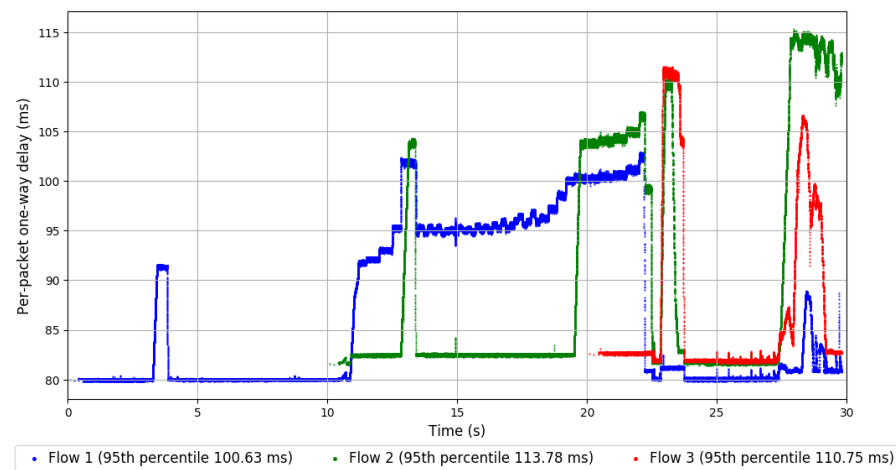
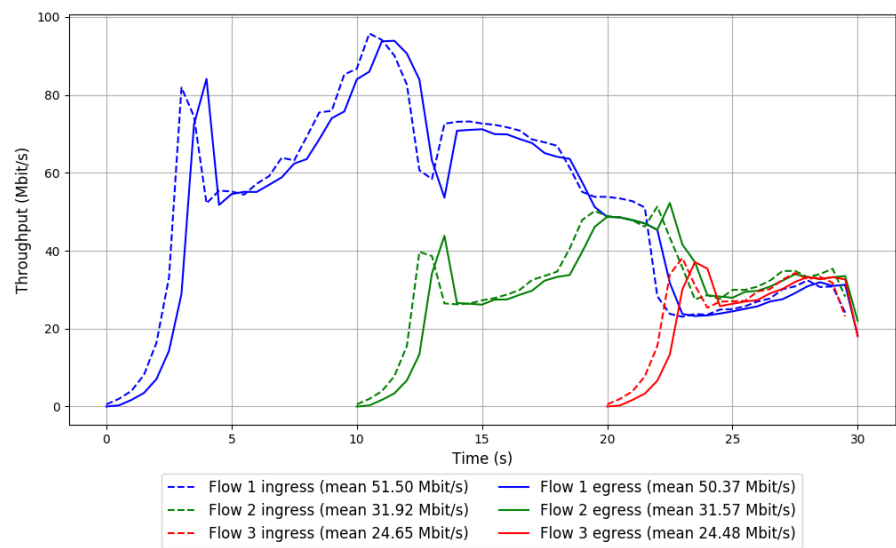
-- Flow 3:

Average throughput: 24.48 Mbit/s

95th percentile per-packet one-way delay: 110.751 ms

Loss rate: 2.35%

Run 8: Report of PCC-Vivace — Data Link

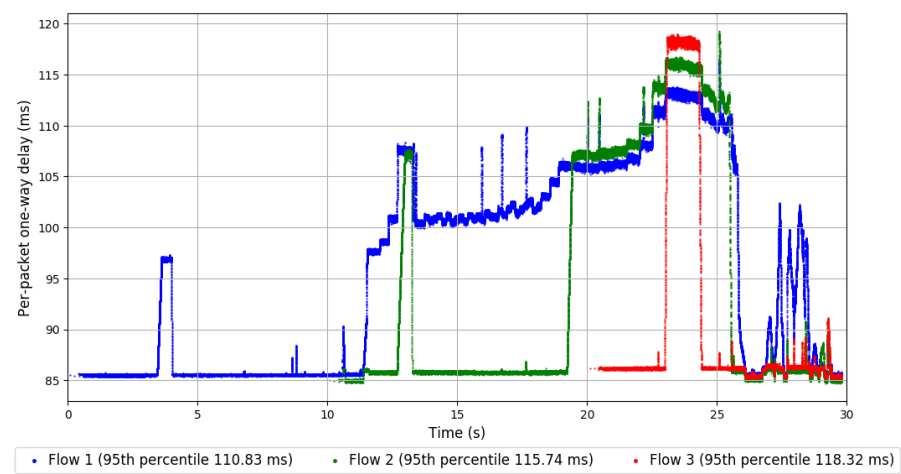
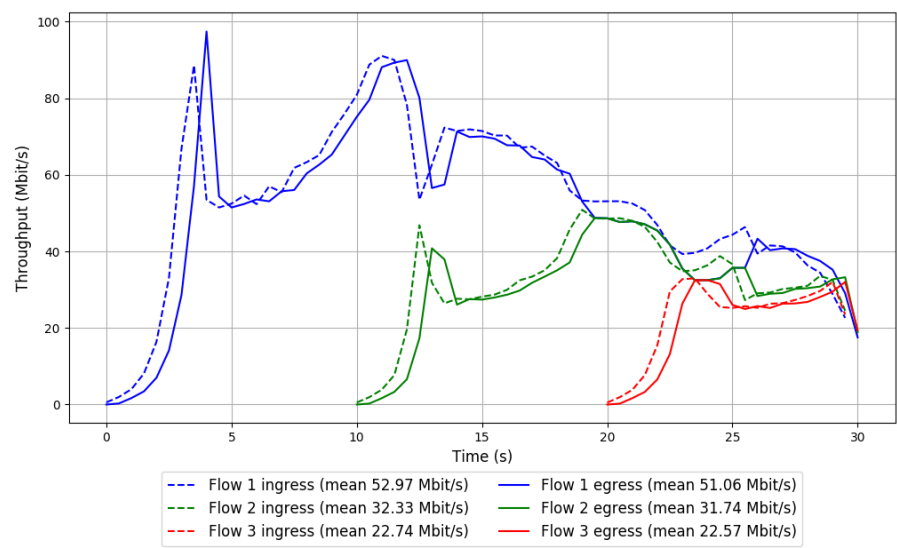


Run 9: Statistics of PCC-Vivace

Start at: 2018-08-10 04:22:44
End at: 2018-08-10 04:23:14
Local clock offset: -2.237 ms
Remote clock offset: -0.259 ms

Below is generated by plot.py at 2018-08-10 05:11:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.48 Mbit/s
95th percentile per-packet one-way delay: 113.344 ms
Loss rate: 3.60%
-- Flow 1:
Average throughput: 51.06 Mbit/s
95th percentile per-packet one-way delay: 110.830 ms
Loss rate: 4.15%
-- Flow 2:
Average throughput: 31.74 Mbit/s
95th percentile per-packet one-way delay: 115.737 ms
Loss rate: 2.66%
-- Flow 3:
Average throughput: 22.57 Mbit/s
95th percentile per-packet one-way delay: 118.323 ms
Loss rate: 2.40%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-08-10 04:44:03

End at: 2018-08-10 04:44:33

Local clock offset: -3.866 ms

Remote clock offset: 2.831 ms

Below is generated by plot.py at 2018-08-10 05:11:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.25 Mbit/s

95th percentile per-packet one-way delay: 108.070 ms

Loss rate: 2.73%

-- Flow 1:

Average throughput: 50.15 Mbit/s

95th percentile per-packet one-way delay: 98.784 ms

Loss rate: 3.22%

-- Flow 2:

Average throughput: 34.21 Mbit/s

95th percentile per-packet one-way delay: 109.463 ms

Loss rate: 1.74%

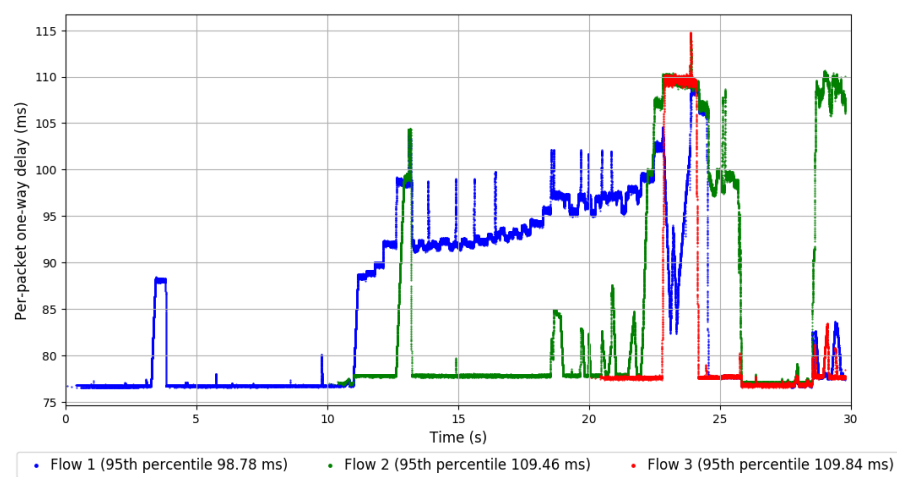
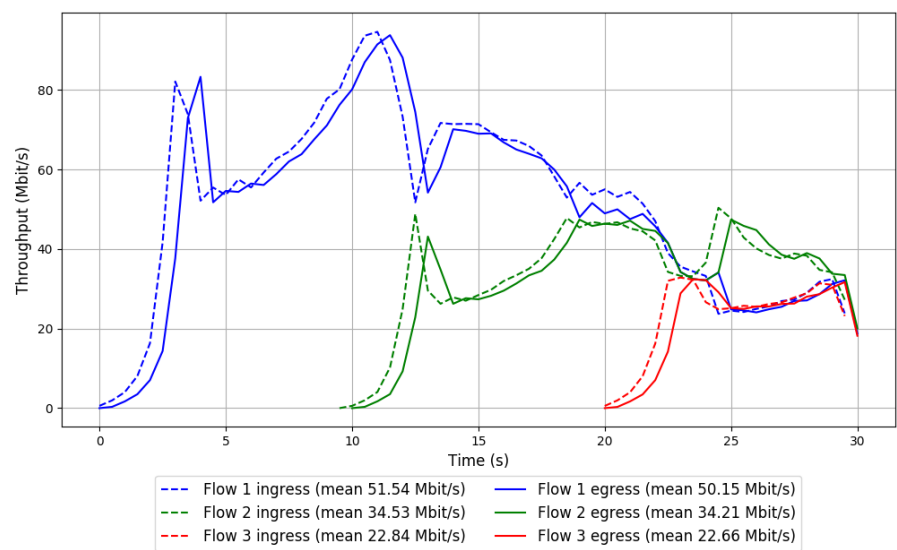
-- Flow 3:

Average throughput: 22.66 Mbit/s

95th percentile per-packet one-way delay: 109.836 ms

Loss rate: 2.40%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-08-10 01:28:53

End at: 2018-08-10 01:29:23

Local clock offset: -2.108 ms

Remote clock offset: 5.947 ms

Below is generated by plot.py at 2018-08-10 05:11:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.07 Mbit/s

95th percentile per-packet one-way delay: 81.650 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 1.73 Mbit/s

95th percentile per-packet one-way delay: 81.734 ms

Loss rate: 0.70%

-- Flow 2:

Average throughput: 0.97 Mbit/s

95th percentile per-packet one-way delay: 79.574 ms

Loss rate: 0.72%

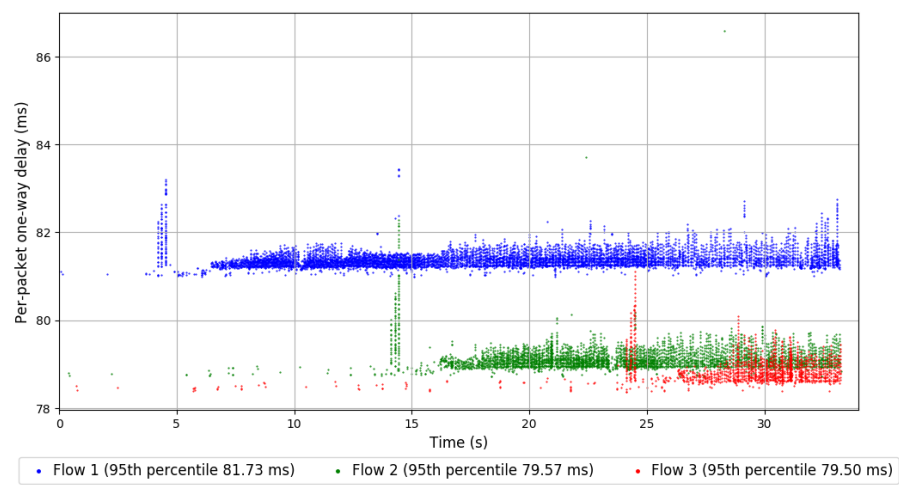
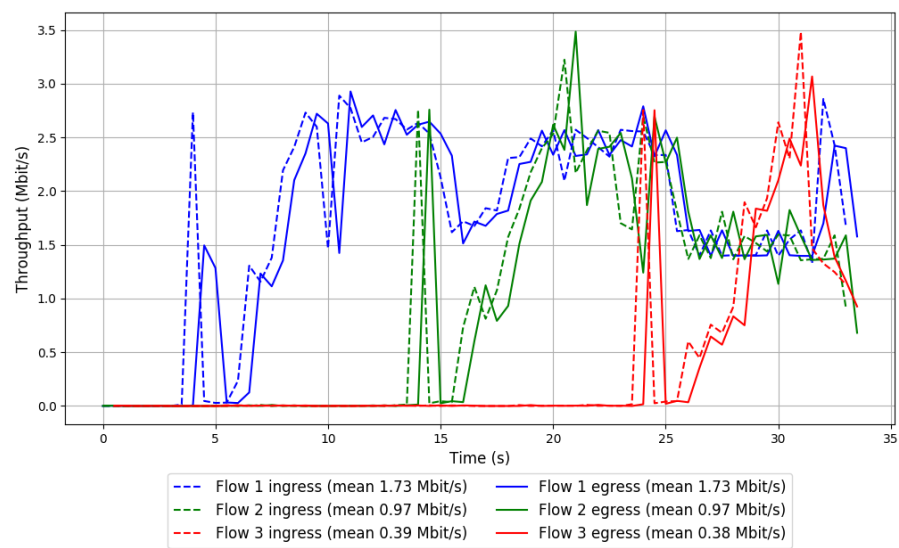
-- Flow 3:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 79.499 ms

Loss rate: 1.80%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-08-10 01:49:59

End at: 2018-08-10 01:50:29

Local clock offset: -3.641 ms

Remote clock offset: 2.886 ms

Below is generated by plot.py at 2018-08-10 05:11:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.99 Mbit/s

95th percentile per-packet one-way delay: 83.610 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 1.64 Mbit/s

95th percentile per-packet one-way delay: 83.601 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 0.98 Mbit/s

95th percentile per-packet one-way delay: 81.469 ms

Loss rate: 0.72%

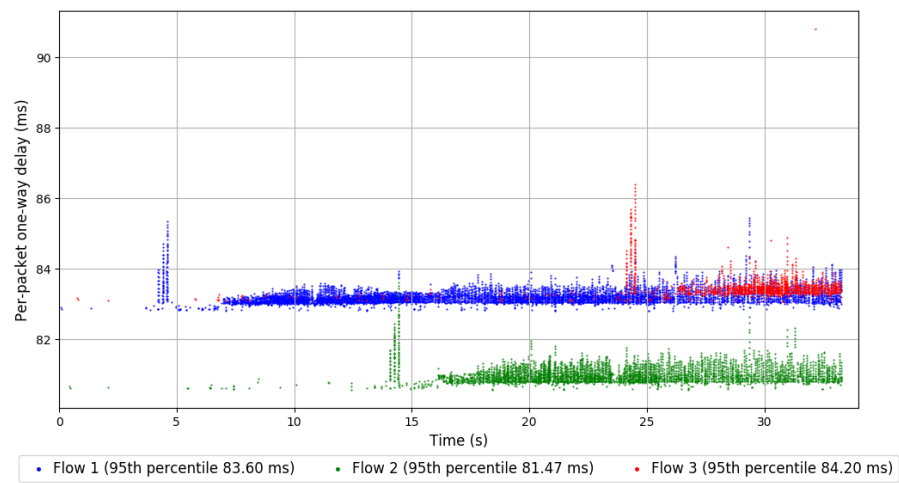
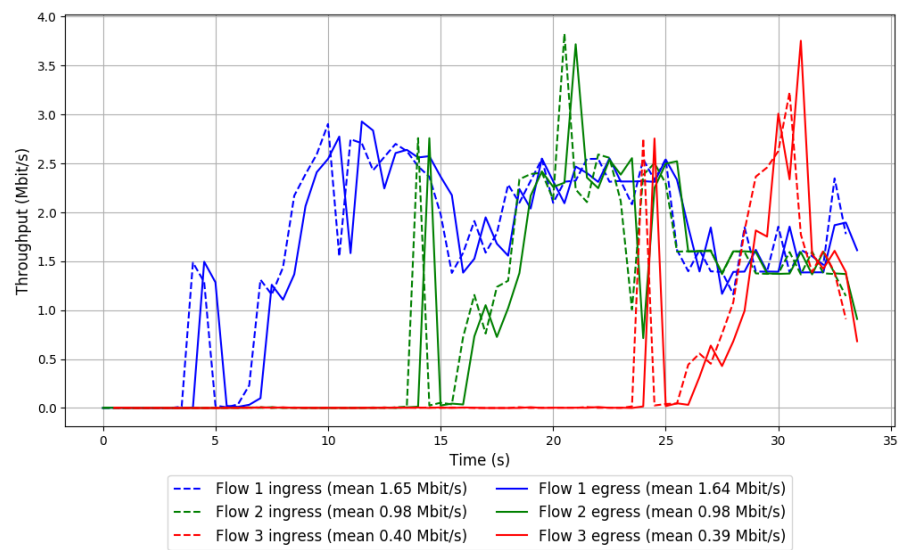
-- Flow 3:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 84.202 ms

Loss rate: 1.76%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-08-10 02:11:05

End at: 2018-08-10 02:11:35

Local clock offset: -2.106 ms

Remote clock offset: 7.97 ms

Below is generated by plot.py at 2018-08-10 05:11:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.07 Mbit/s

95th percentile per-packet one-way delay: 80.523 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 1.72 Mbit/s

95th percentile per-packet one-way delay: 78.163 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 0.96 Mbit/s

95th percentile per-packet one-way delay: 80.662 ms

Loss rate: 0.70%

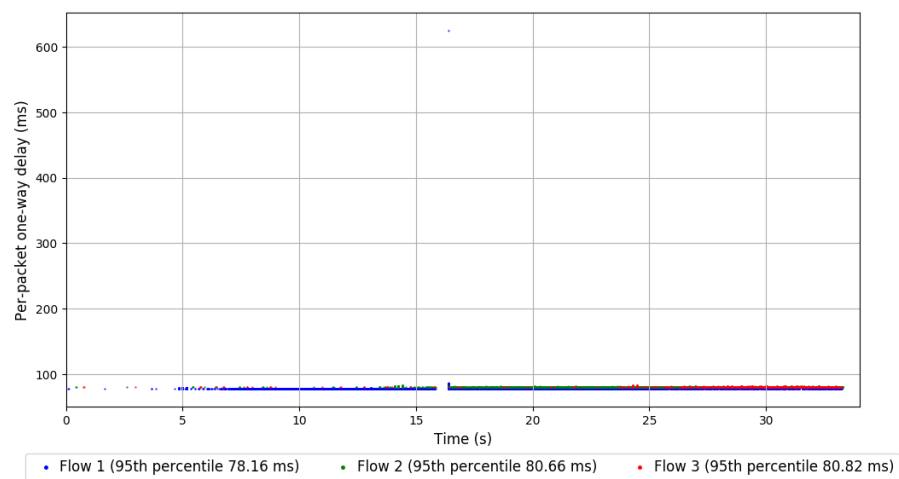
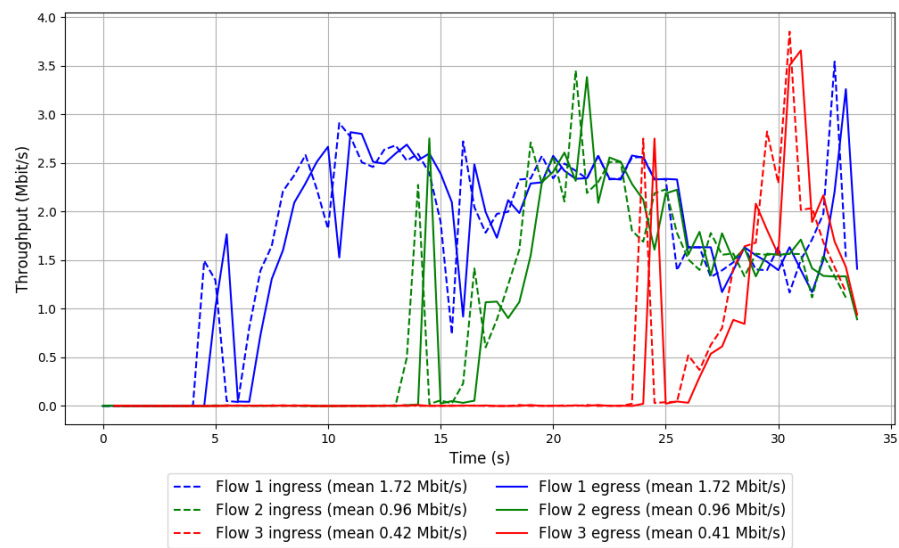
-- Flow 3:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 80.824 ms

Loss rate: 1.72%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-08-10 02:32:11

End at: 2018-08-10 02:32:41

Local clock offset: -3.464 ms

Remote clock offset: 7.41 ms

Below is generated by plot.py at 2018-08-10 05:11:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.96 Mbit/s

95th percentile per-packet one-way delay: 80.791 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 1.60 Mbit/s

95th percentile per-packet one-way delay: 80.880 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 0.97 Mbit/s

95th percentile per-packet one-way delay: 79.030 ms

Loss rate: 0.73%

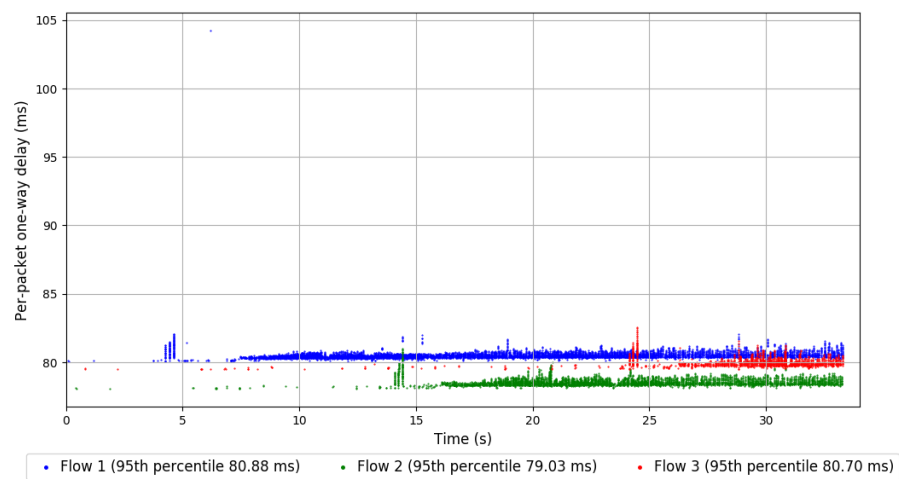
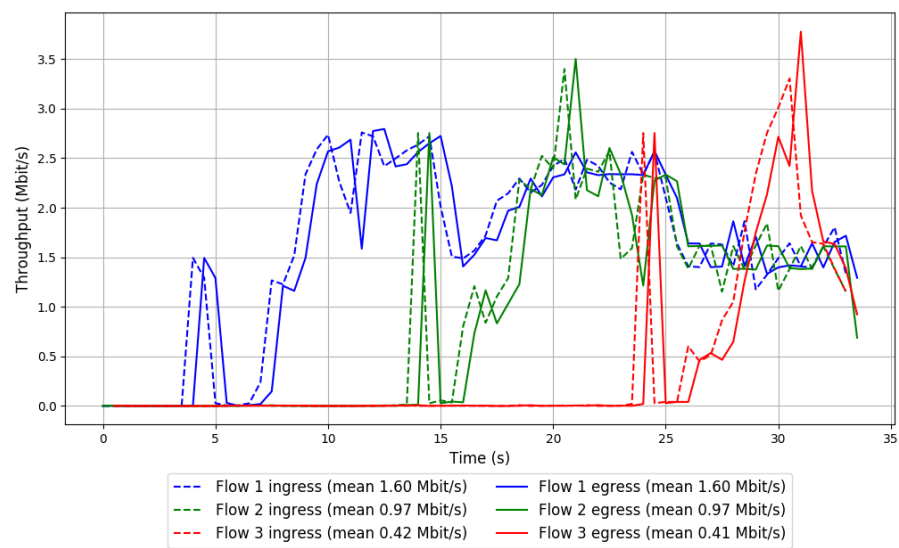
-- Flow 3:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 80.699 ms

Loss rate: 1.69%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-08-10 02:53:13

End at: 2018-08-10 02:53:43

Local clock offset: -4.178 ms

Remote clock offset: 5.269 ms

Below is generated by plot.py at 2018-08-10 05:11:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.12 Mbit/s

95th percentile per-packet one-way delay: 82.819 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 1.77 Mbit/s

95th percentile per-packet one-way delay: 81.564 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 0.98 Mbit/s

95th percentile per-packet one-way delay: 81.631 ms

Loss rate: 0.71%

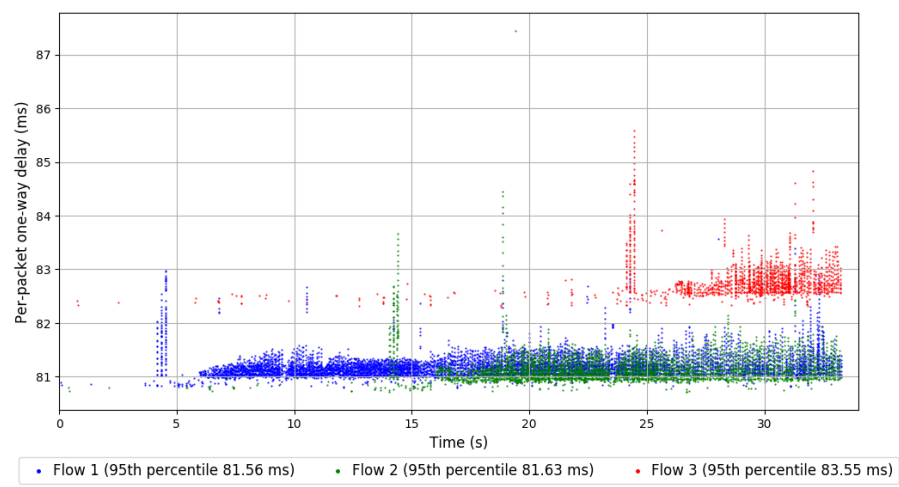
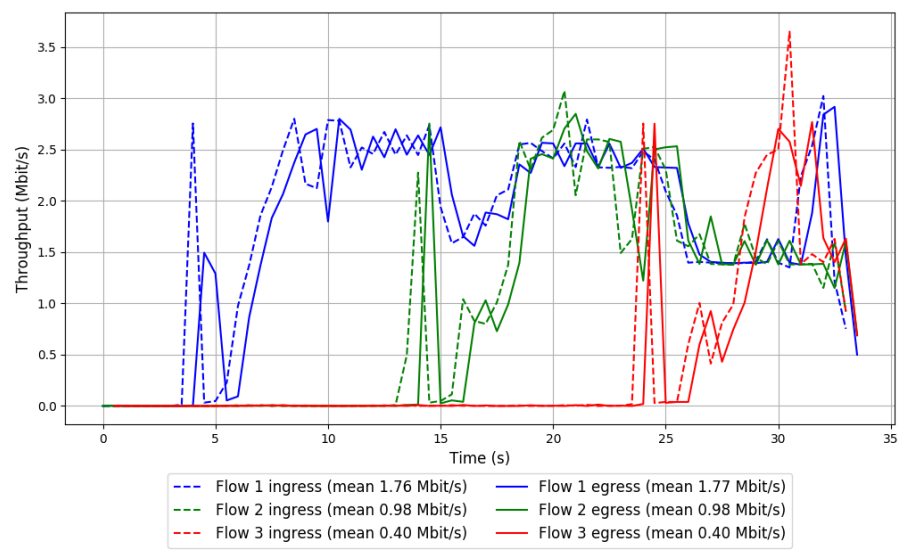
-- Flow 3:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 83.549 ms

Loss rate: 1.75%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-08-10 03:14:29

End at: 2018-08-10 03:14:59

Local clock offset: -3.932 ms

Remote clock offset: 4.614 ms

Below is generated by plot.py at 2018-08-10 05:11:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.05 Mbit/s

95th percentile per-packet one-way delay: 83.872 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 1.74 Mbit/s

95th percentile per-packet one-way delay: 83.864 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 0.94 Mbit/s

95th percentile per-packet one-way delay: 84.103 ms

Loss rate: 0.73%

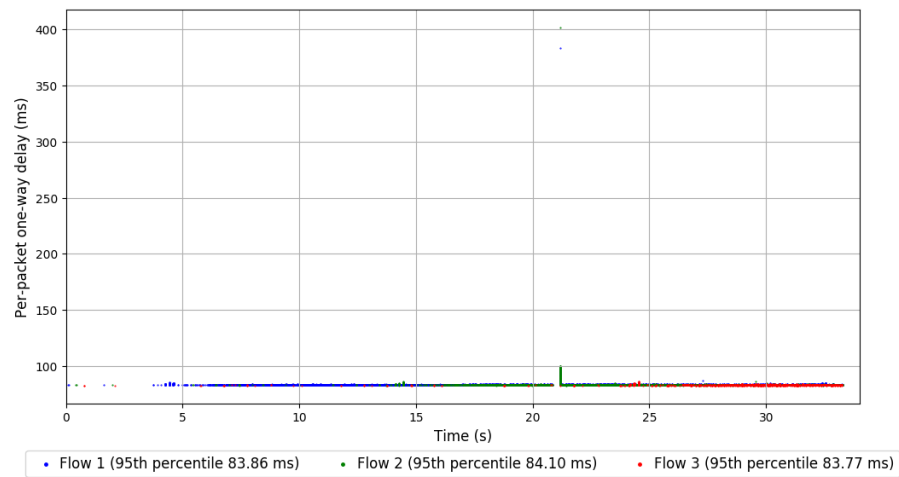
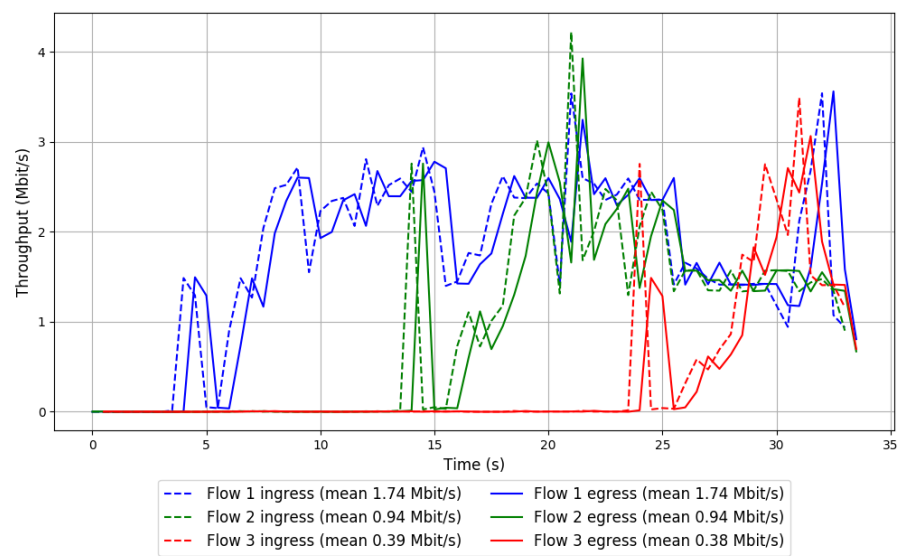
-- Flow 3:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 83.769 ms

Loss rate: 2.74%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-08-10 03:35:35

End at: 2018-08-10 03:36:05

Local clock offset: -4.962 ms

Remote clock offset: 4.151 ms

Below is generated by plot.py at 2018-08-10 05:11:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.96 Mbit/s

95th percentile per-packet one-way delay: 83.660 ms

Loss rate: 1.10%

-- Flow 1:

Average throughput: 1.62 Mbit/s

95th percentile per-packet one-way delay: 81.564 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 0.98 Mbit/s

95th percentile per-packet one-way delay: 83.923 ms

Loss rate: 0.96%

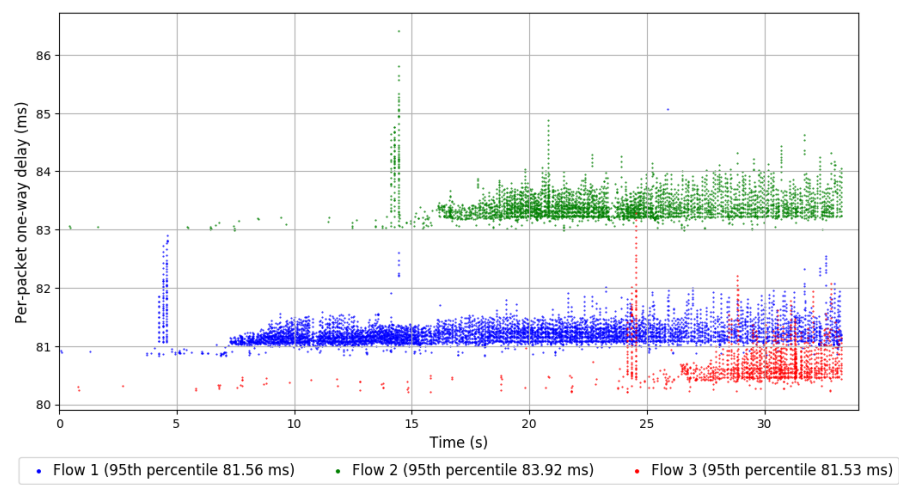
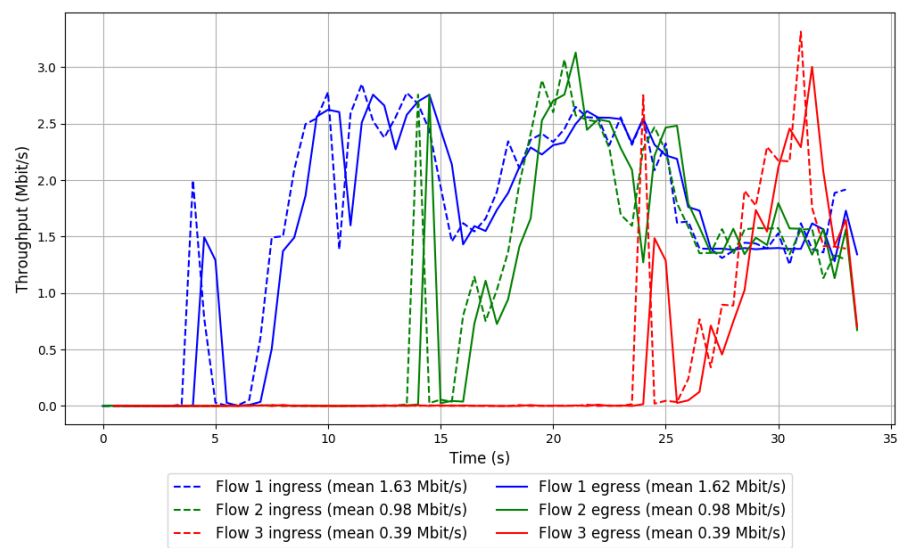
-- Flow 3:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 81.530 ms

Loss rate: 2.69%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-08-10 03:56:41

End at: 2018-08-10 03:57:11

Local clock offset: -3.432 ms

Remote clock offset: 6.852 ms

Below is generated by plot.py at 2018-08-10 05:11:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.01 Mbit/s

95th percentile per-packet one-way delay: 80.448 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 1.66 Mbit/s

95th percentile per-packet one-way delay: 80.206 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 0.98 Mbit/s

95th percentile per-packet one-way delay: 80.632 ms

Loss rate: 1.04%

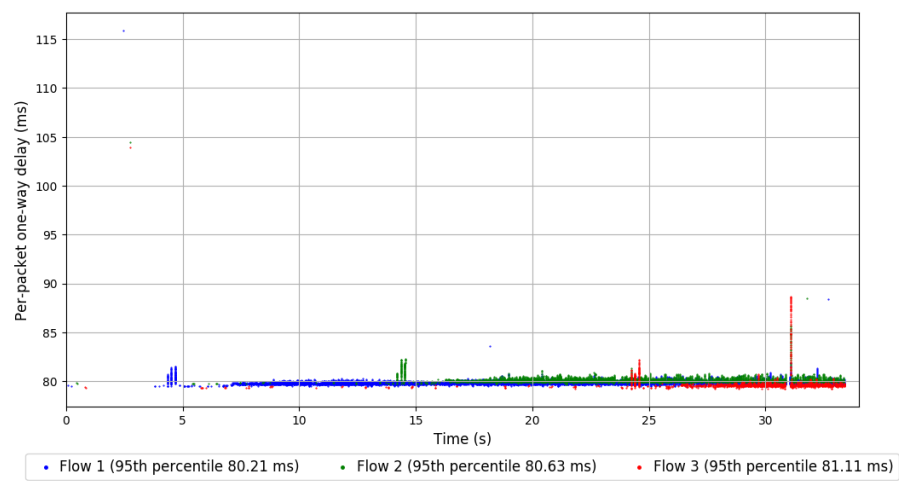
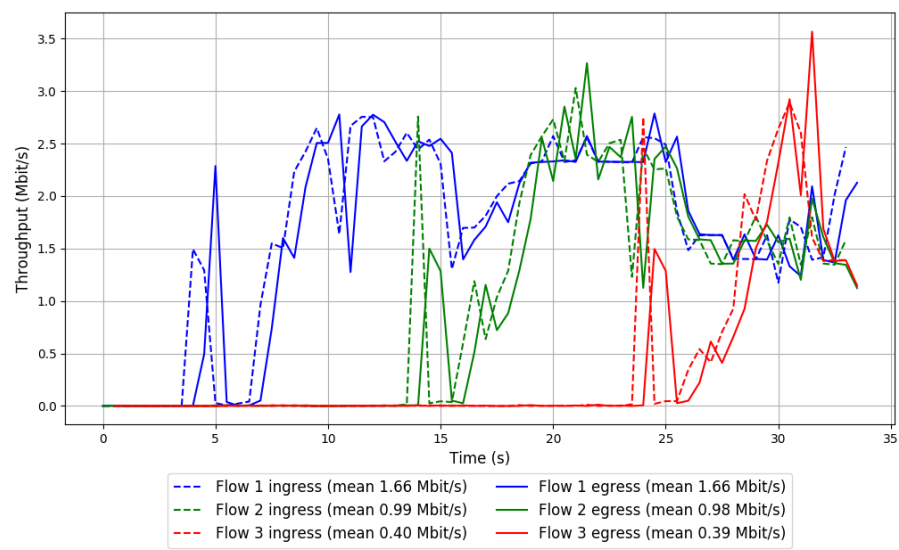
-- Flow 3:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 81.112 ms

Loss rate: 1.83%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-08-10 04:17:52

End at: 2018-08-10 04:18:22

Local clock offset: -3.722 ms

Remote clock offset: 1.526 ms

Below is generated by plot.py at 2018-08-10 05:11:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.13 Mbit/s

95th percentile per-packet one-way delay: 83.565 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 1.77 Mbit/s

95th percentile per-packet one-way delay: 83.130 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 0.98 Mbit/s

95th percentile per-packet one-way delay: 83.117 ms

Loss rate: 0.72%

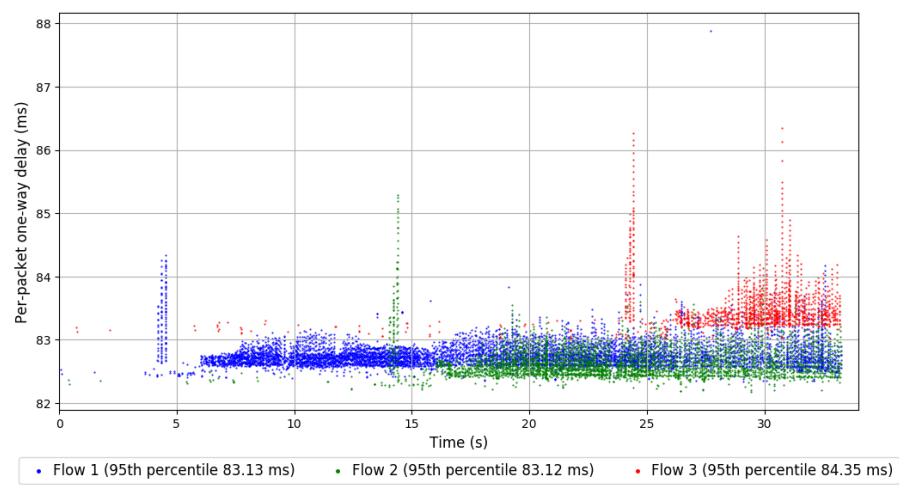
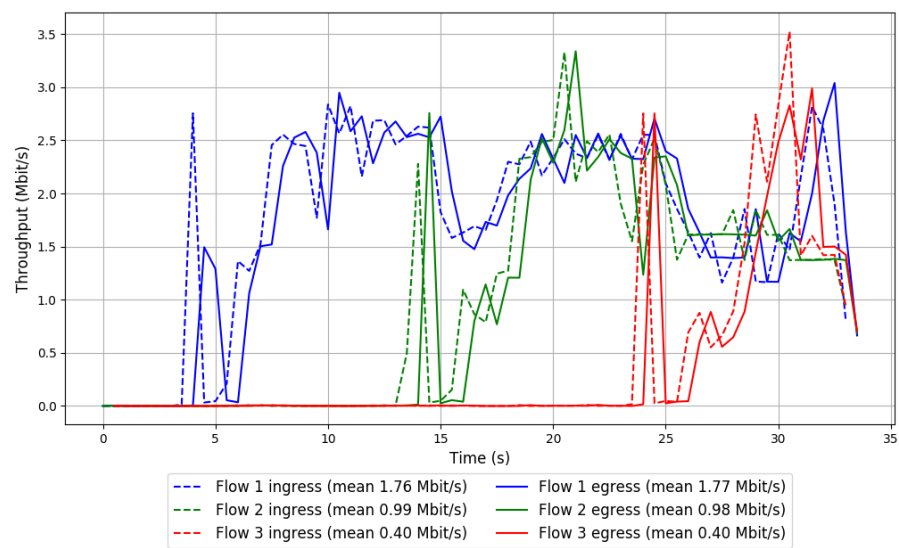
-- Flow 3:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 84.350 ms

Loss rate: 1.78%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-08-10 04:39:09

End at: 2018-08-10 04:39:39

Local clock offset: -3.041 ms

Remote clock offset: 4.29 ms

Below is generated by plot.py at 2018-08-10 05:11:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.10 Mbit/s

95th percentile per-packet one-way delay: 78.743 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 1.75 Mbit/s

95th percentile per-packet one-way delay: 77.178 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 0.97 Mbit/s

95th percentile per-packet one-way delay: 77.346 ms

Loss rate: 0.73%

-- Flow 3:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 79.349 ms

Loss rate: 1.77%

Run 10: Report of WebRTC media — Data Link

