

Pantheon Report

Generated at 2018-07-10 19:32:46 (UTC).

Data path: GCE Iowa Ethernet (*remote*) → GCE Sydney Ethernet (*local*).

Repeated the test of 17 congestion control schemes 10 times.

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

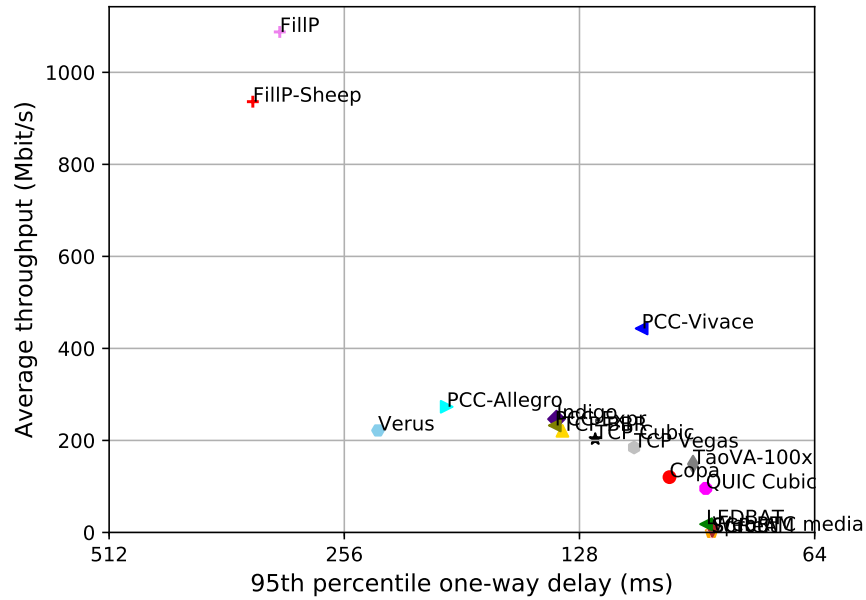
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

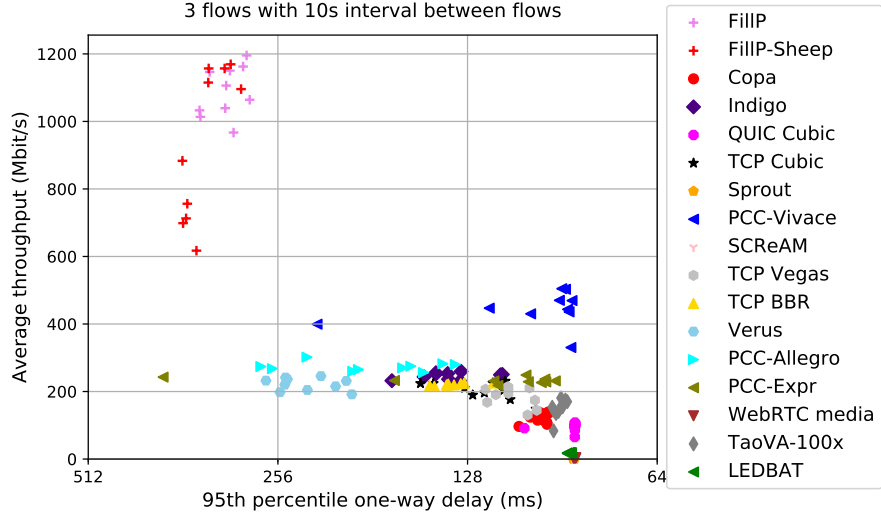
Git summary:

```
branch: master @ 9250dbeec7fb57193cdff1ba8c440b4e16ab30f0
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ 37162fe9af85249aeccac061c93e75640ef710b5
third_party/genericCC @ 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-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webRTC @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from GCE Iowa to GCE Sydney, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from GCE Iowa to GCE Sydney, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows



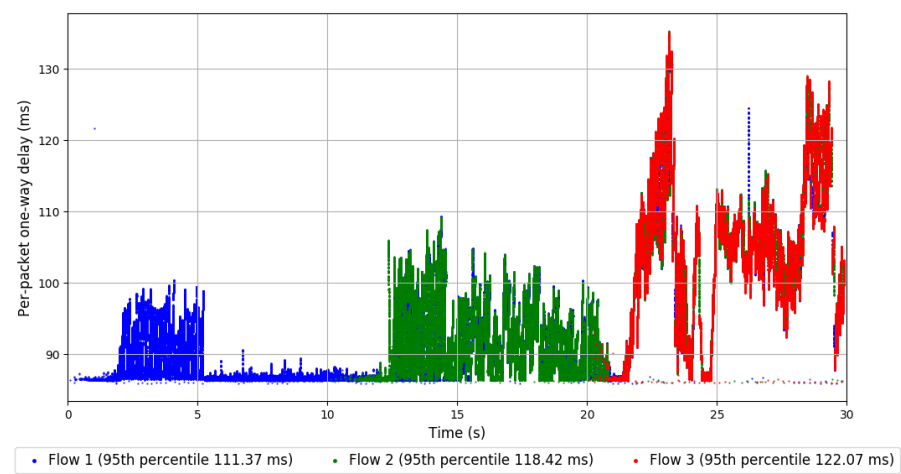
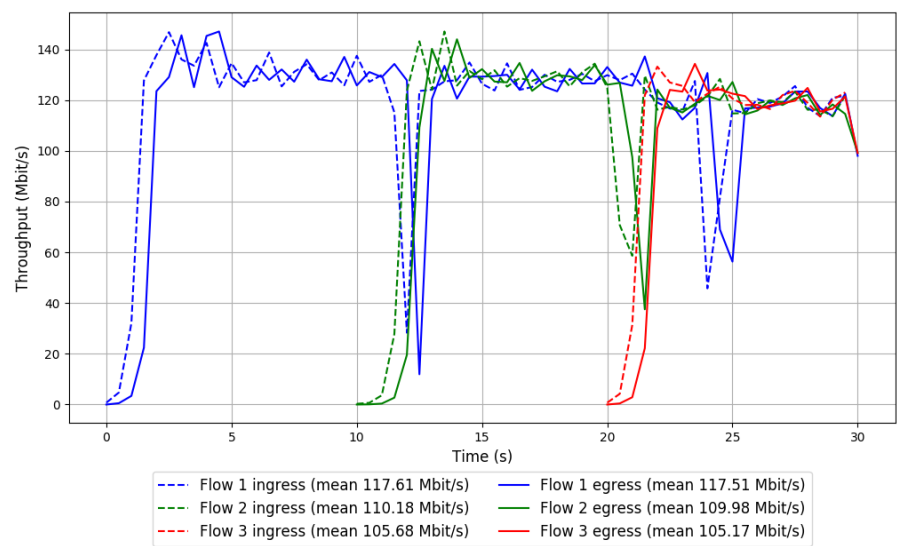
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	115.89	110.58	96.25	131.08	134.74	139.56	0.65	0.98	2.44
Copa	10	72.16	59.14	41.74	97.58	100.15	101.34	0.39	0.73	2.64
TCP Cubic	10	116.11	94.09	74.50	120.62	122.52	125.98	0.51	1.61	2.85
FillP	10	567.78	538.00	497.62	309.64	307.48	282.96	2.89	3.31	5.42
FillP-Sheep	10	459.40	479.79	485.35	332.69	330.77	300.53	5.08	5.91	4.44
Indigo	10	143.60	125.69	59.62	131.03	137.90	142.61	0.57	0.92	2.36
LEDBAT	10	11.65	7.88	3.53	88.29	88.03	87.61	1.17	1.75	3.69
PCC-Allegro	10	248.92	22.78	28.09	189.63	183.48	190.92	1.27	1.12	2.23
PCC-Expr	10	165.36	90.78	21.56	123.90	138.54	131.82	1.20	2.99	4.14
QUIC Cubic	10	50.41	49.06	39.20	88.67	86.30	86.26	0.67	0.58	2.38
SCReAM	10	0.22	0.22	0.22	86.48	86.69	86.42	0.52	0.96	1.82
Sprout	10	0.27	0.29	0.35	87.00	86.75	86.80	0.55	0.80	1.66
TaoVA-100x	10	102.78	66.41	52.39	90.69	93.19	95.76	0.27	0.85	2.90
TCP Vegas	10	102.95	95.68	55.56	106.33	108.13	109.22	0.52	0.93	2.46
Verus	10	149.24	85.11	50.86	222.33	229.27	249.00	1.80	2.36	5.26
PCC-Vivace	10	263.58	202.92	139.17	106.27	109.50	100.45	0.64	1.10	3.02
WebRTC media	10	1.93	1.25	0.46	86.49	86.43	86.57	0.65	1.56	2.52

Run 1: Statistics of TCP BBR

Start at: 2018-07-10 13:18:47
End at: 2018-07-10 13:19:17
Local clock offset: -0.122 ms
Remote clock offset: -0.058 ms

Below is generated by plot.py at 2018-07-10 17:30:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 225.04 Mbit/s
95th percentile per-packet one-way delay: 116.336 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 117.51 Mbit/s
95th percentile per-packet one-way delay: 111.372 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 109.98 Mbit/s
95th percentile per-packet one-way delay: 118.419 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 105.17 Mbit/s
95th percentile per-packet one-way delay: 122.073 ms
Loss rate: 2.24%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-07-10 13:42:53

End at: 2018-07-10 13:43:23

Local clock offset: -0.019 ms

Remote clock offset: 0.02 ms

Below is generated by plot.py at 2018-07-10 17:30:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 224.44 Mbit/s

95th percentile per-packet one-way delay: 129.562 ms

Loss rate: 1.05%

-- Flow 1:

Average throughput: 117.15 Mbit/s

95th percentile per-packet one-way delay: 126.976 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 112.23 Mbit/s

95th percentile per-packet one-way delay: 129.382 ms

Loss rate: 1.06%

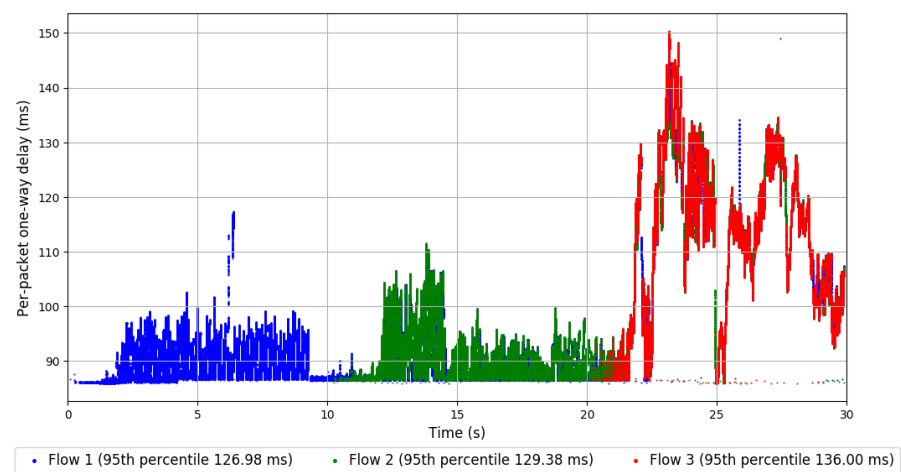
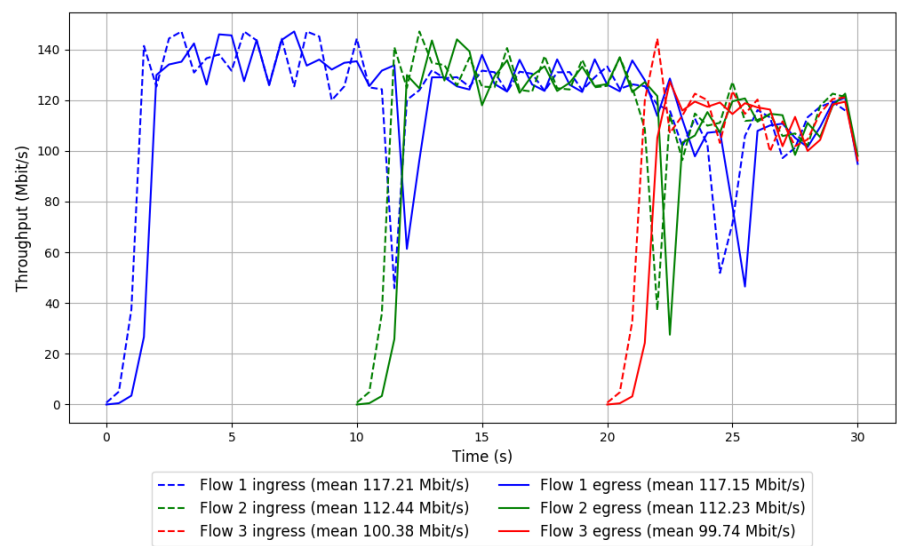
-- Flow 3:

Average throughput: 99.74 Mbit/s

95th percentile per-packet one-way delay: 135.995 ms

Loss rate: 2.46%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-07-10 14:07:28

End at: 2018-07-10 14:07:58

Local clock offset: -0.009 ms

Remote clock offset: 0.059 ms

Below is generated by plot.py at 2018-07-10 17:30:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 217.37 Mbit/s

95th percentile per-packet one-way delay: 137.824 ms

Loss rate: 1.05%

-- Flow 1:

Average throughput: 114.70 Mbit/s

95th percentile per-packet one-way delay: 135.146 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 109.21 Mbit/s

95th percentile per-packet one-way delay: 138.190 ms

Loss rate: 1.04%

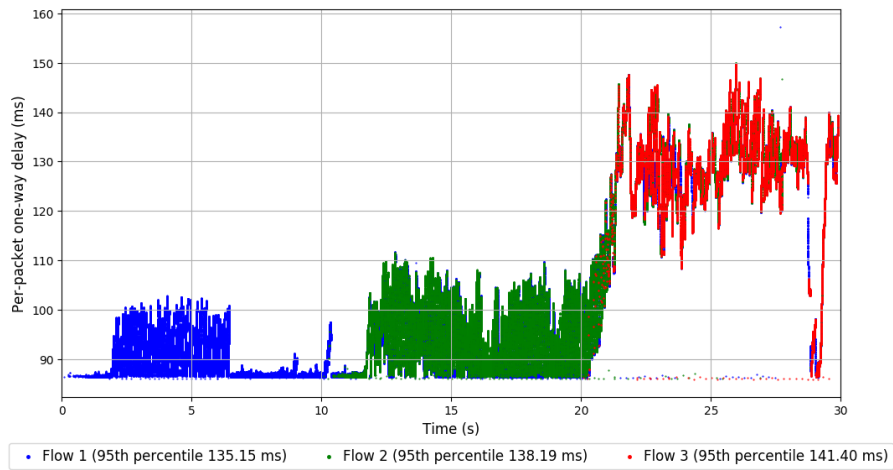
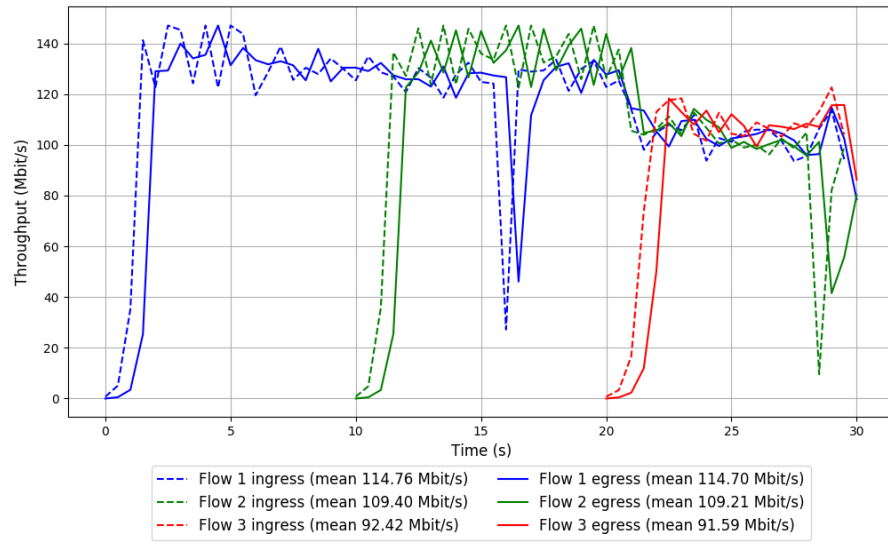
-- Flow 3:

Average throughput: 91.59 Mbit/s

95th percentile per-packet one-way delay: 141.397 ms

Loss rate: 2.61%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-07-10 14:32:12

End at: 2018-07-10 14:32:42

Local clock offset: 0.093 ms

Remote clock offset: 0.012 ms

Below is generated by plot.py at 2018-07-10 17:30:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 215.29 Mbit/s

95th percentile per-packet one-way delay: 144.507 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 112.95 Mbit/s

95th percentile per-packet one-way delay: 140.283 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 108.39 Mbit/s

95th percentile per-packet one-way delay: 143.627 ms

Loss rate: 0.26%

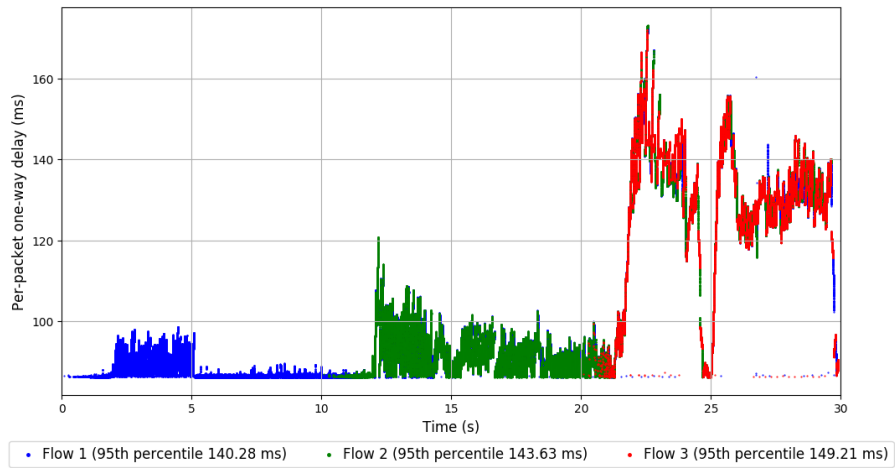
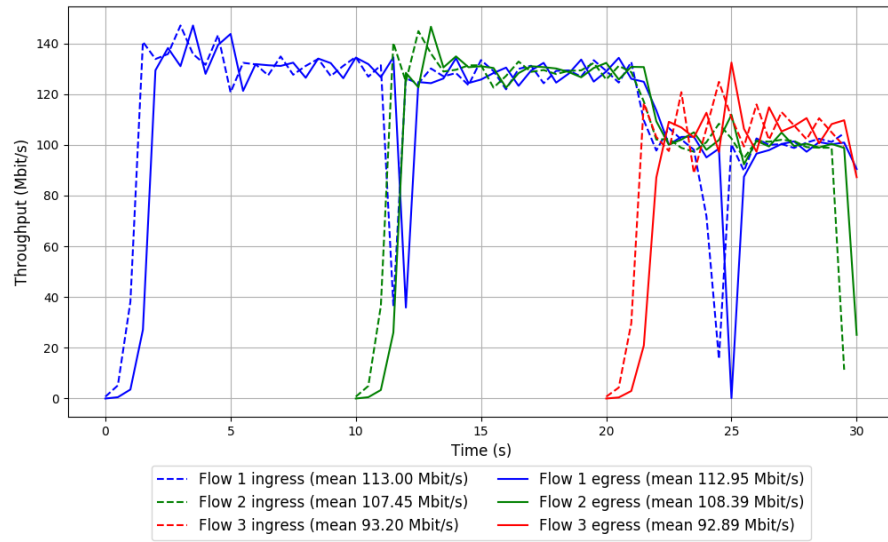
-- Flow 3:

Average throughput: 92.89 Mbit/s

95th percentile per-packet one-way delay: 149.209 ms

Loss rate: 2.07%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-07-10 14:56:42

End at: 2018-07-10 14:57:12

Local clock offset: -0.189 ms

Remote clock offset: 0.01 ms

Below is generated by plot.py at 2018-07-10 17:30:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 219.58 Mbit/s

95th percentile per-packet one-way delay: 134.482 ms

Loss rate: 1.07%

-- Flow 1:

Average throughput: 116.74 Mbit/s

95th percentile per-packet one-way delay: 129.682 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 108.25 Mbit/s

95th percentile per-packet one-way delay: 134.965 ms

Loss rate: 1.08%

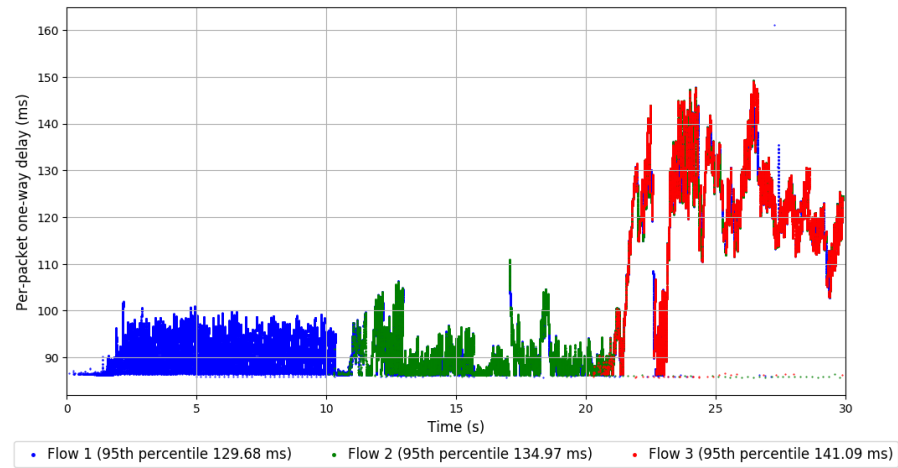
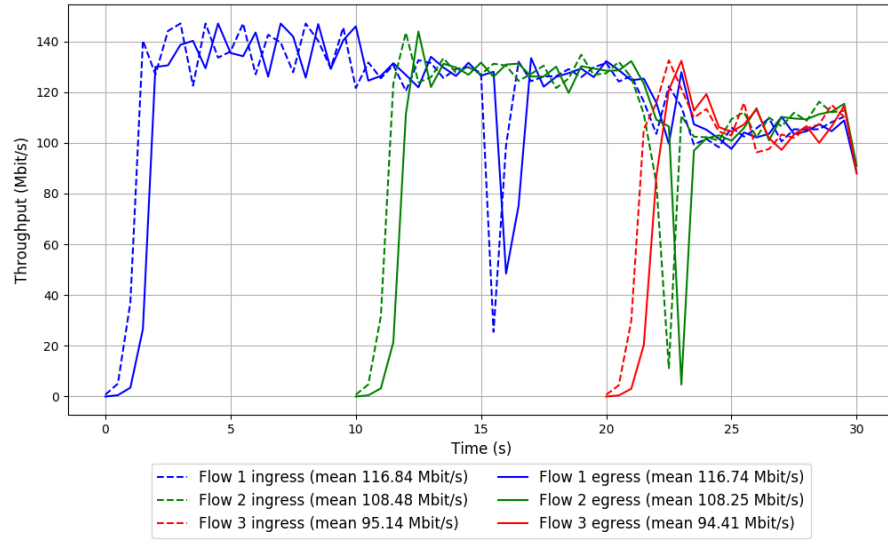
-- Flow 3:

Average throughput: 94.41 Mbit/s

95th percentile per-packet one-way delay: 141.091 ms

Loss rate: 2.58%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

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

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

Local clock offset: -0.099 ms

Remote clock offset: 0.036 ms

Below is generated by plot.py at 2018-07-10 17:30:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 217.51 Mbit/s

95th percentile per-packet one-way delay: 146.980 ms

Loss rate: 1.05%

-- Flow 1:

Average throughput: 113.01 Mbit/s

95th percentile per-packet one-way delay: 141.758 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 112.20 Mbit/s

95th percentile per-packet one-way delay: 145.386 ms

Loss rate: 1.06%

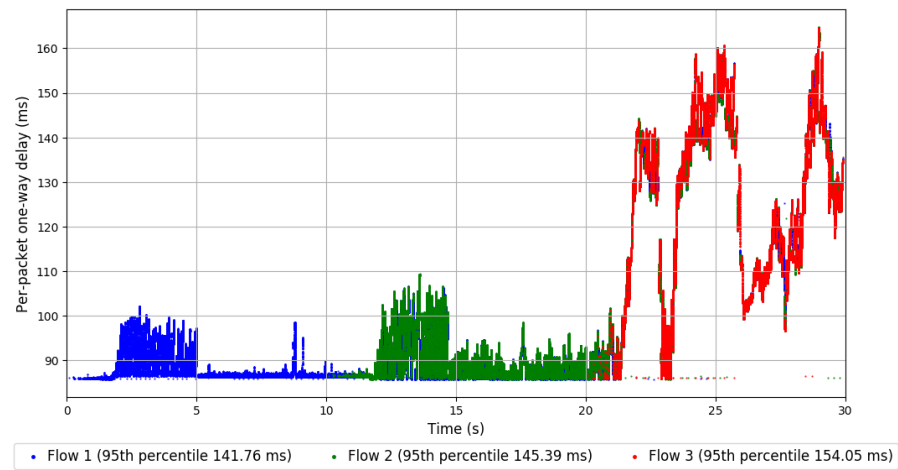
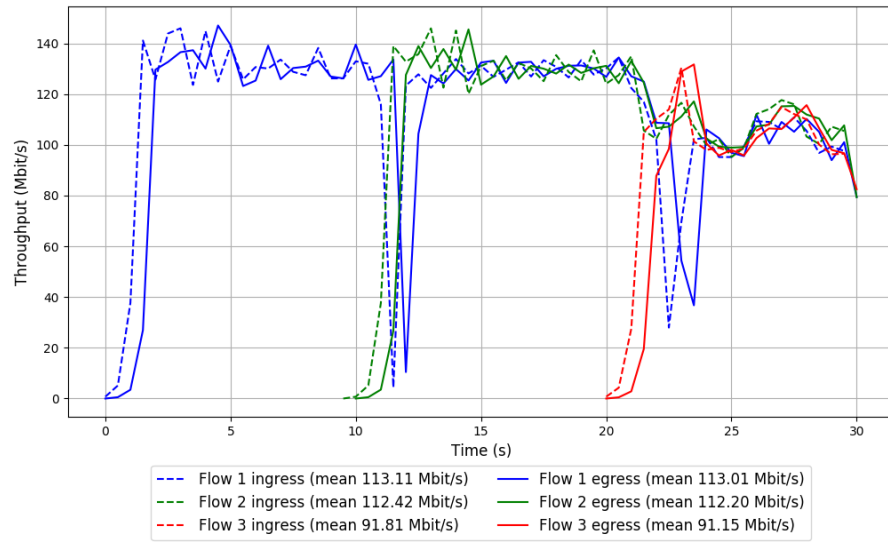
-- Flow 3:

Average throughput: 91.15 Mbit/s

95th percentile per-packet one-way delay: 154.047 ms

Loss rate: 2.43%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-07-10 15:46:13

End at: 2018-07-10 15:46:43

Local clock offset: 0.083 ms

Remote clock offset: 0.005 ms

Below is generated by plot.py at 2018-07-10 17:30:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 223.24 Mbit/s

95th percentile per-packet one-way delay: 131.209 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 117.33 Mbit/s

95th percentile per-packet one-way delay: 127.759 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 111.92 Mbit/s

95th percentile per-packet one-way delay: 131.291 ms

Loss rate: 0.96%

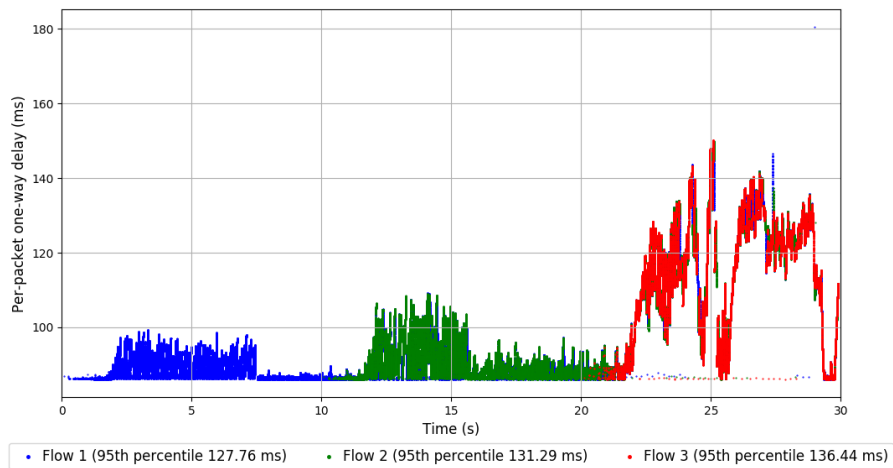
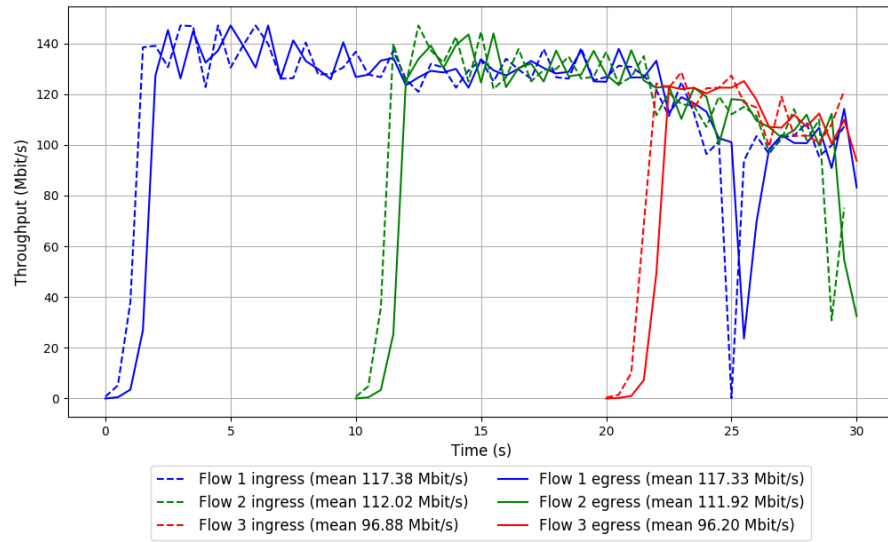
-- Flow 3:

Average throughput: 96.20 Mbit/s

95th percentile per-packet one-way delay: 136.438 ms

Loss rate: 2.42%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-07-10 16:10:47

End at: 2018-07-10 16:11:17

Local clock offset: 0.045 ms

Remote clock offset: 0.02 ms

Below is generated by plot.py at 2018-07-10 17:30:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 224.48 Mbit/s

95th percentile per-packet one-way delay: 129.535 ms

Loss rate: 1.04%

-- Flow 1:

Average throughput: 116.96 Mbit/s

95th percentile per-packet one-way delay: 127.422 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 114.14 Mbit/s

95th percentile per-packet one-way delay: 129.810 ms

Loss rate: 1.07%

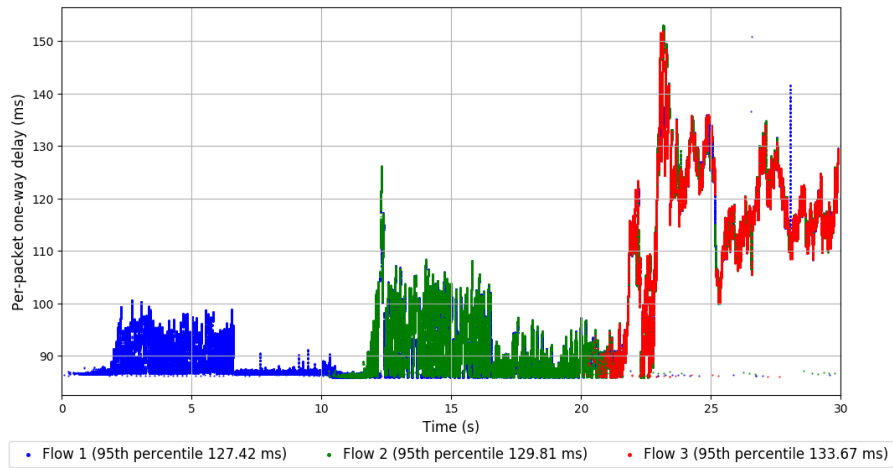
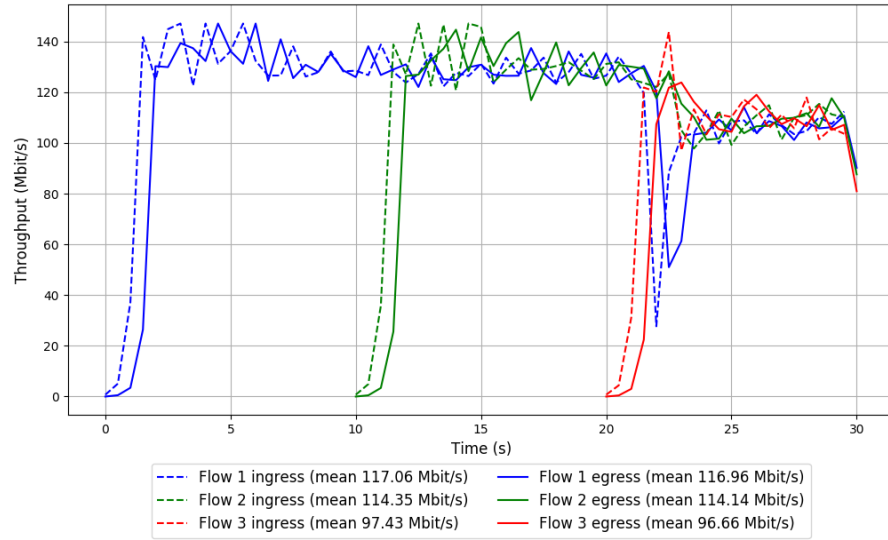
-- Flow 3:

Average throughput: 96.66 Mbit/s

95th percentile per-packet one-way delay: 133.667 ms

Loss rate: 2.36%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-07-10 16:35:18

End at: 2018-07-10 16:35:48

Local clock offset: -0.028 ms

Remote clock offset: 0.024 ms

Below is generated by plot.py at 2018-07-10 17:34:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 222.17 Mbit/s

95th percentile per-packet one-way delay: 137.334 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 115.97 Mbit/s

95th percentile per-packet one-way delay: 135.080 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 110.72 Mbit/s

95th percentile per-packet one-way delay: 137.950 ms

Loss rate: 0.96%

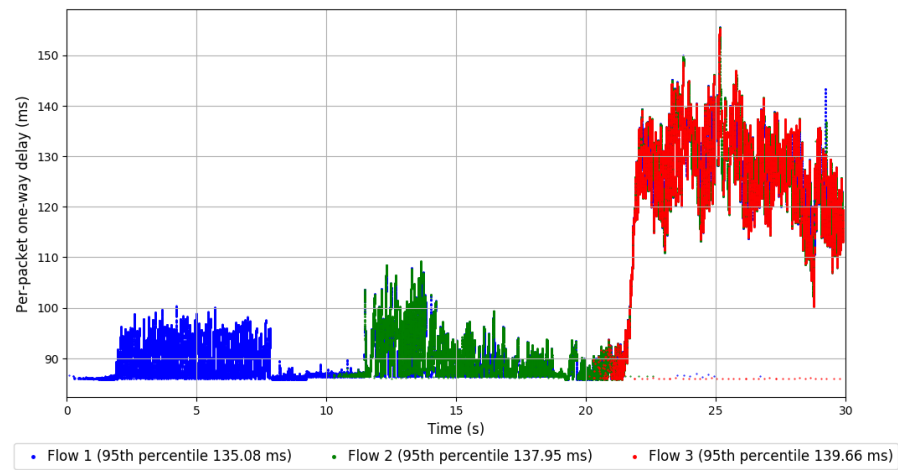
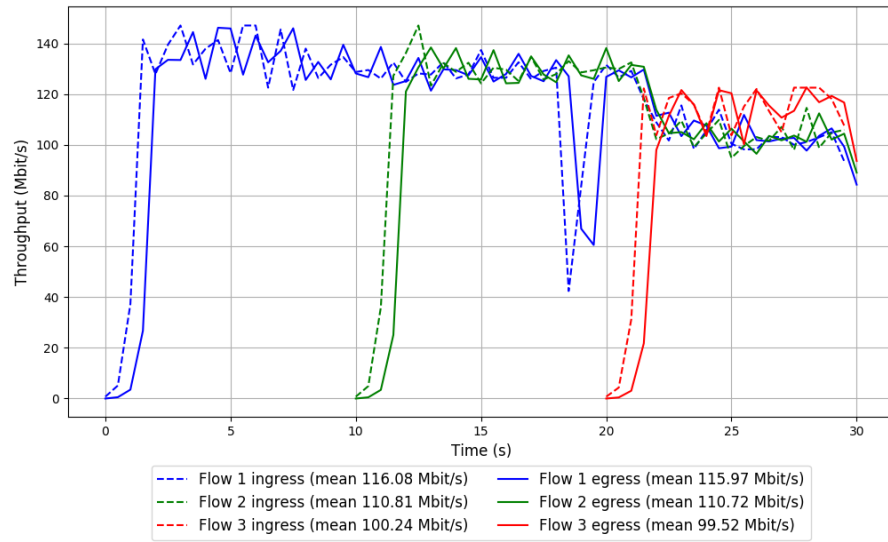
-- Flow 3:

Average throughput: 99.52 Mbit/s

95th percentile per-packet one-way delay: 139.661 ms

Loss rate: 2.45%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-07-10 16:59:35

End at: 2018-07-10 17:00:05

Local clock offset: 0.031 ms

Remote clock offset: 0.04 ms

Below is generated by plot.py at 2018-07-10 17:34:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 220.06 Mbit/s

95th percentile per-packet one-way delay: 138.186 ms

Loss rate: 1.20%

-- Flow 1:

Average throughput: 116.55 Mbit/s

95th percentile per-packet one-way delay: 135.308 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 108.80 Mbit/s

95th percentile per-packet one-way delay: 138.365 ms

Loss rate: 1.22%

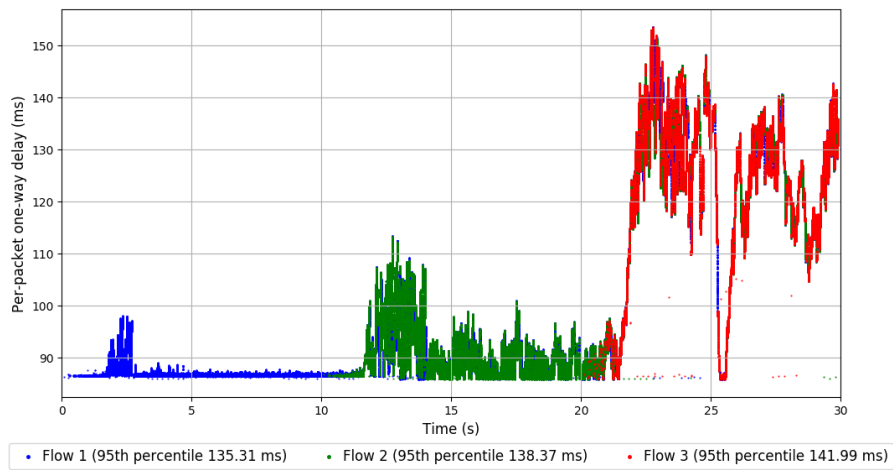
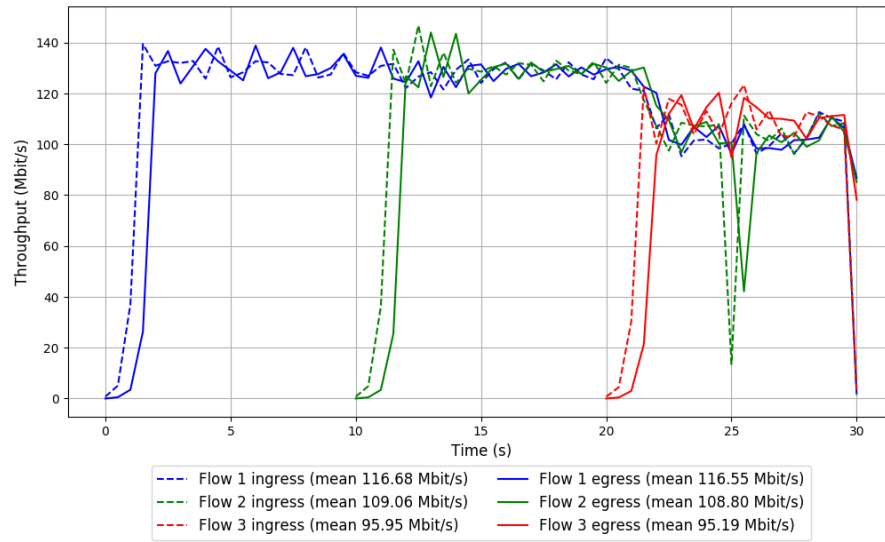
-- Flow 3:

Average throughput: 95.19 Mbit/s

95th percentile per-packet one-way delay: 141.991 ms

Loss rate: 2.78%

Run 10: Report of TCP BBR — Data Link

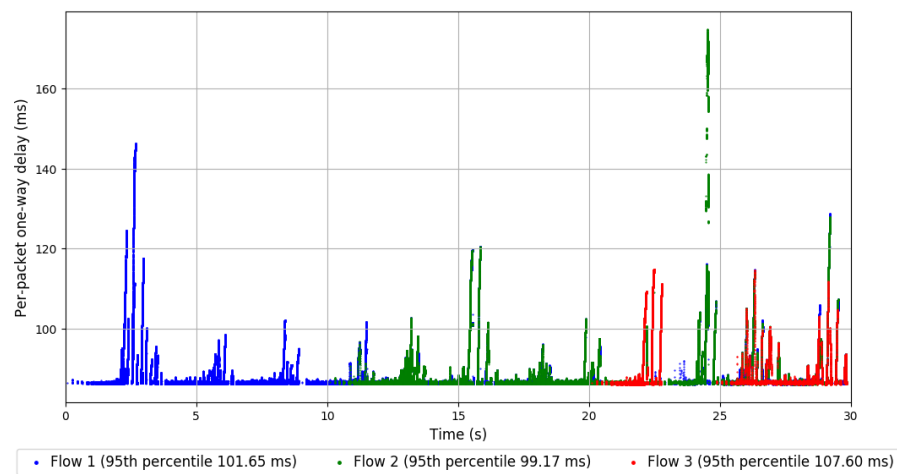
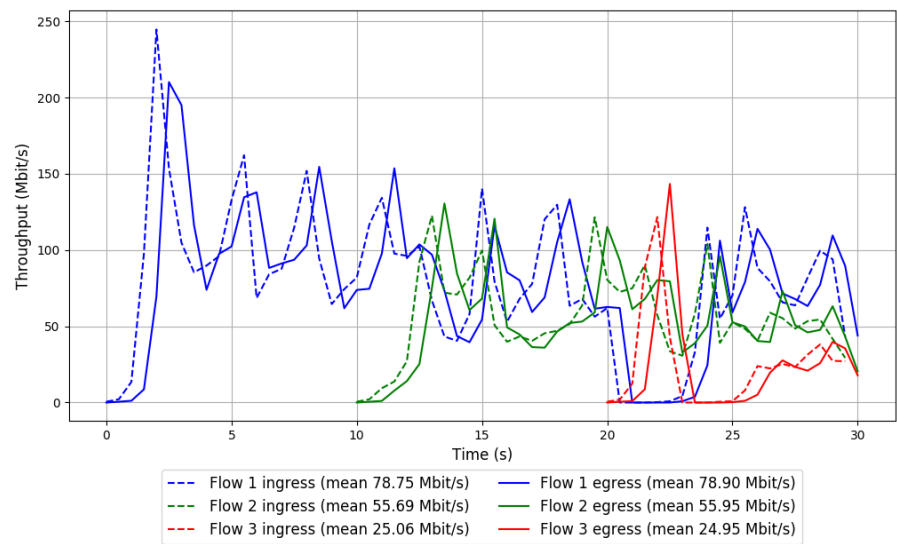


Run 1: Statistics of Copa

Start at: 2018-07-10 13:10:14
End at: 2018-07-10 13:10:44
Local clock offset: 0.102 ms
Remote clock offset: -0.022 ms

Below is generated by plot.py at 2018-07-10 17:34:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 124.10 Mbit/s
95th percentile per-packet one-way delay: 101.763 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 78.90 Mbit/s
95th percentile per-packet one-way delay: 101.650 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 55.95 Mbit/s
95th percentile per-packet one-way delay: 99.169 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 24.95 Mbit/s
95th percentile per-packet one-way delay: 107.600 ms
Loss rate: 2.24%

Run 1: Report of Copa — Data Link

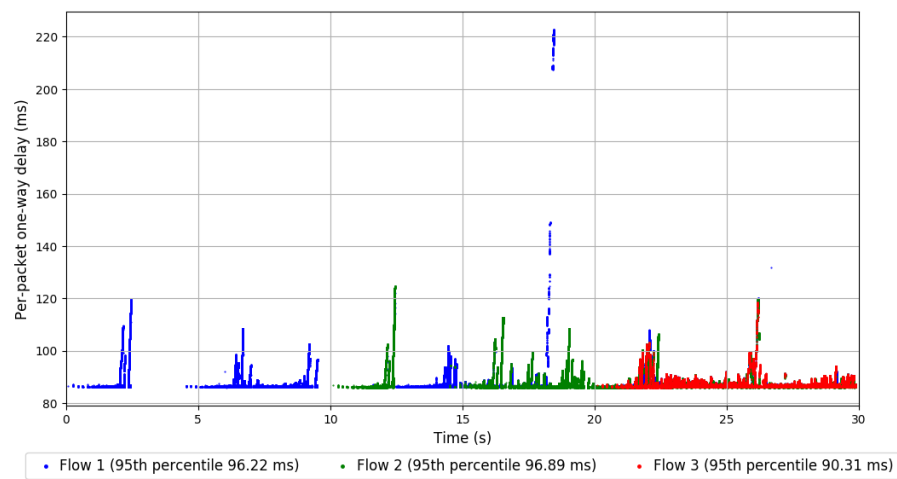
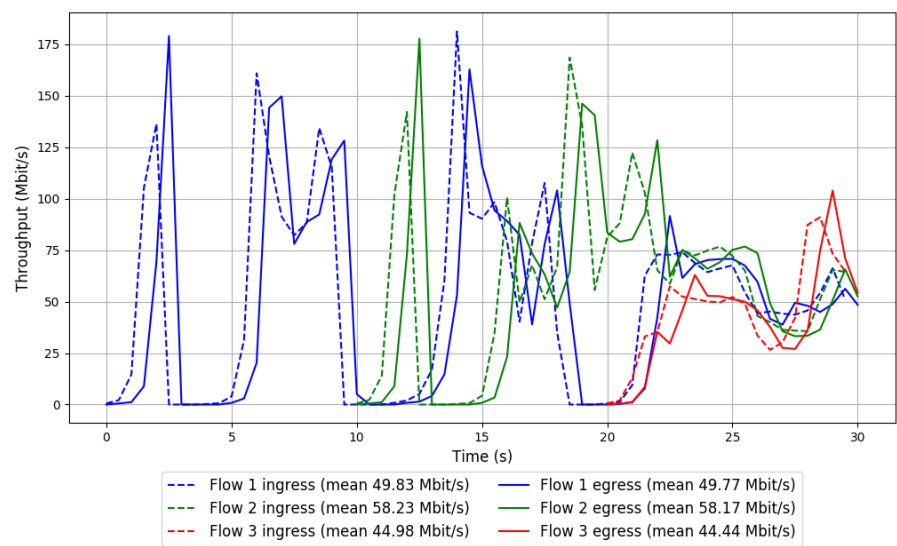


Run 2: Statistics of Copa

Start at: 2018-07-10 13:34:24
End at: 2018-07-10 13:34:54
Local clock offset: 0.113 ms
Remote clock offset: -0.006 ms

Below is generated by plot.py at 2018-07-10 17:34:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 102.96 Mbit/s
95th percentile per-packet one-way delay: 95.718 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 49.77 Mbit/s
95th percentile per-packet one-way delay: 96.217 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 58.17 Mbit/s
95th percentile per-packet one-way delay: 96.893 ms
Loss rate: 0.97%
-- Flow 3:
Average throughput: 44.44 Mbit/s
95th percentile per-packet one-way delay: 90.315 ms
Loss rate: 2.91%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-07-10 13:58:47

End at: 2018-07-10 13:59:17

Local clock offset: -0.05 ms

Remote clock offset: 0.012 ms

Below is generated by plot.py at 2018-07-10 17:35:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 139.40 Mbit/s

95th percentile per-packet one-way delay: 95.272 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 88.04 Mbit/s

95th percentile per-packet one-way delay: 94.044 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 66.74 Mbit/s

95th percentile per-packet one-way delay: 94.897 ms

Loss rate: 1.46%

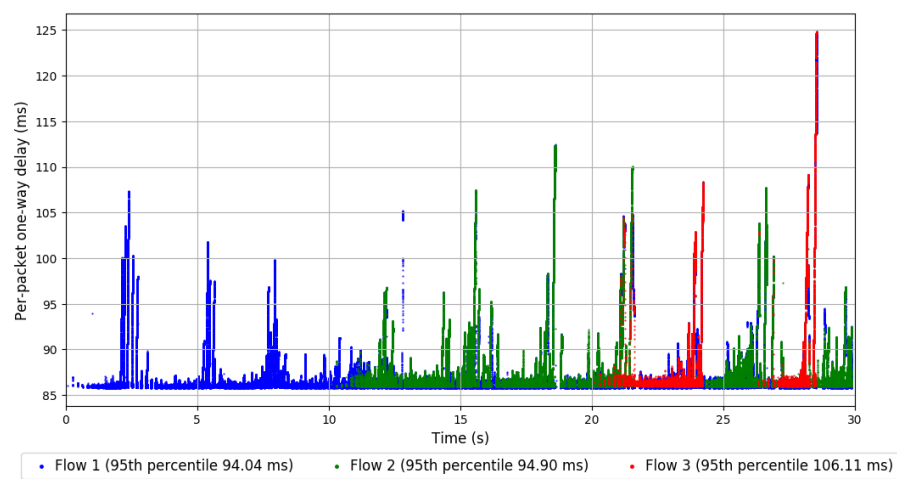
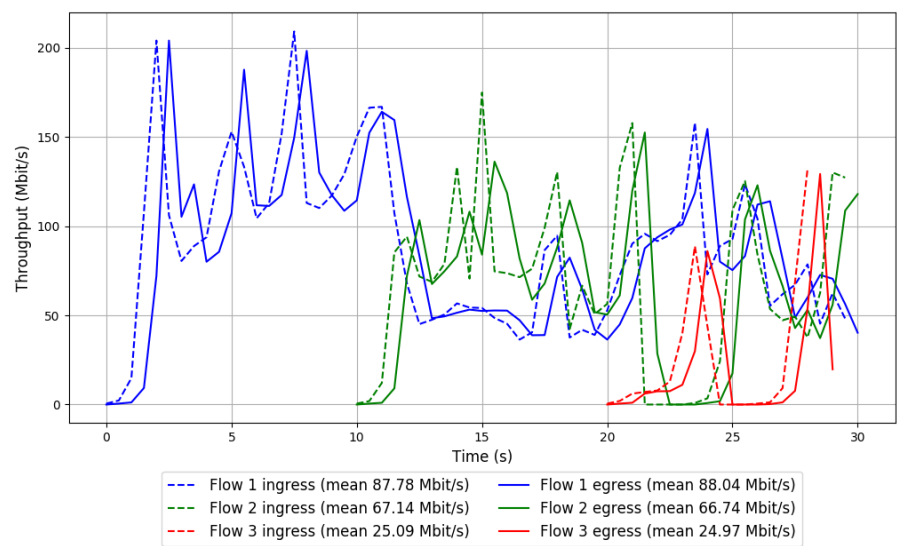
-- Flow 3:

Average throughput: 24.97 Mbit/s

95th percentile per-packet one-way delay: 106.113 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-07-10 14:23:34

End at: 2018-07-10 14:24:04

Local clock offset: 0.088 ms

Remote clock offset: 0.007 ms

Below is generated by plot.py at 2018-07-10 17:35:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 115.26 Mbit/s

95th percentile per-packet one-way delay: 99.077 ms

Loss rate: 1.40%

-- Flow 1:

Average throughput: 75.66 Mbit/s

95th percentile per-packet one-way delay: 98.384 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 37.78 Mbit/s

95th percentile per-packet one-way delay: 105.602 ms

Loss rate: 2.47%

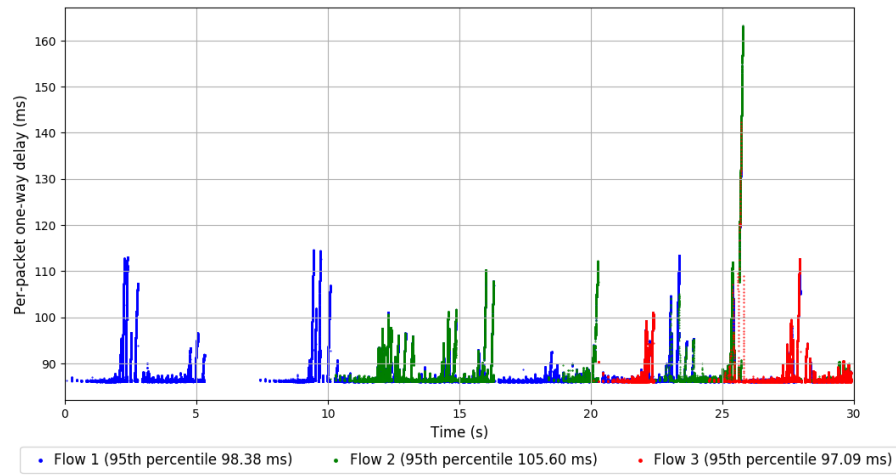
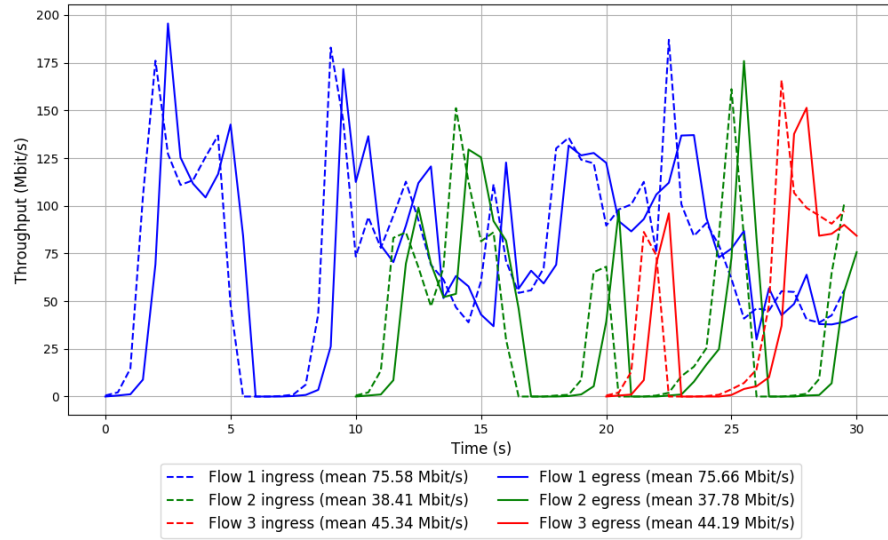
-- Flow 3:

Average throughput: 44.19 Mbit/s

95th percentile per-packet one-way delay: 97.093 ms

Loss rate: 4.23%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-07-10 14:48:03

End at: 2018-07-10 14:48:33

Local clock offset: 0.127 ms

Remote clock offset: 0.027 ms

Below is generated by plot.py at 2018-07-10 17:35:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 113.96 Mbit/s

95th percentile per-packet one-way delay: 96.770 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 62.86 Mbit/s

95th percentile per-packet one-way delay: 97.920 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 49.94 Mbit/s

95th percentile per-packet one-way delay: 97.945 ms

Loss rate: 0.70%

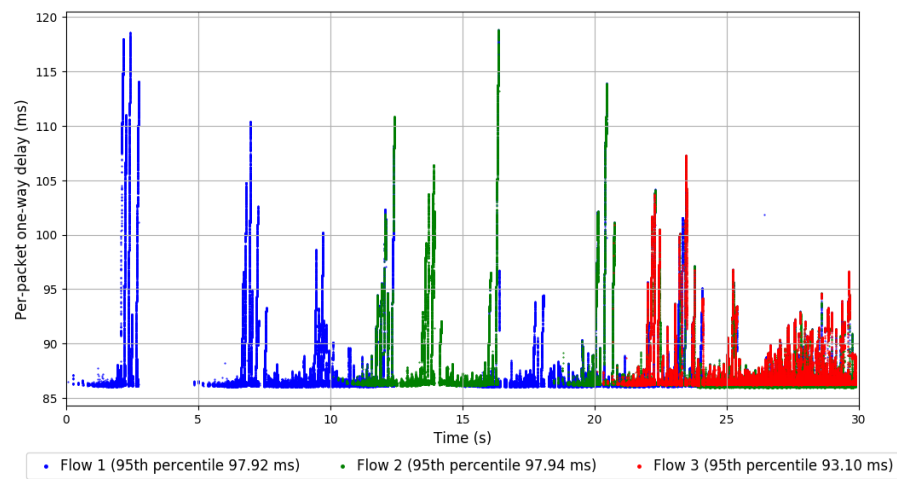
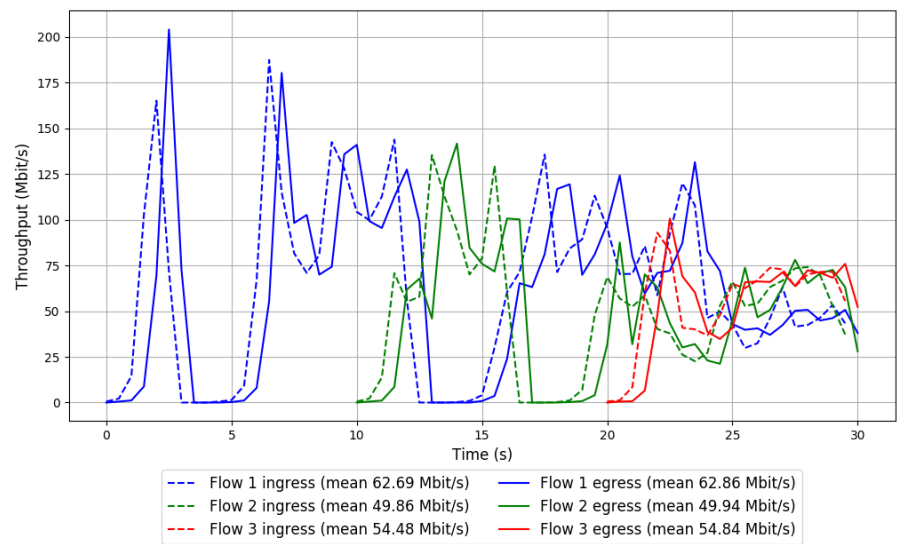
-- Flow 3:

Average throughput: 54.84 Mbit/s

95th percentile per-packet one-way delay: 93.098 ms

Loss rate: 1.11%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-07-10 15:12:52

End at: 2018-07-10 15:13:22

Local clock offset: -0.233 ms

Remote clock offset: 0.053 ms

Below is generated by plot.py at 2018-07-10 17:35:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.68 Mbit/s

95th percentile per-packet one-way delay: 106.055 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 50.47 Mbit/s

95th percentile per-packet one-way delay: 102.856 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 55.08 Mbit/s

95th percentile per-packet one-way delay: 109.854 ms

Loss rate: 0.00%

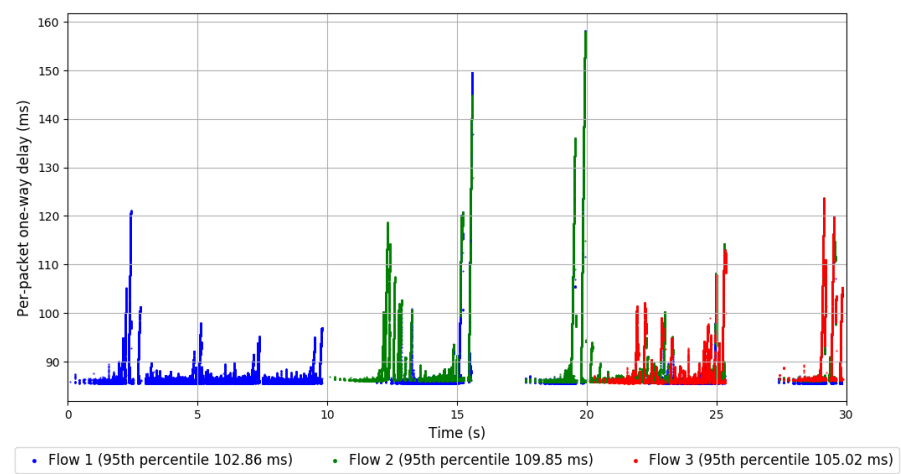
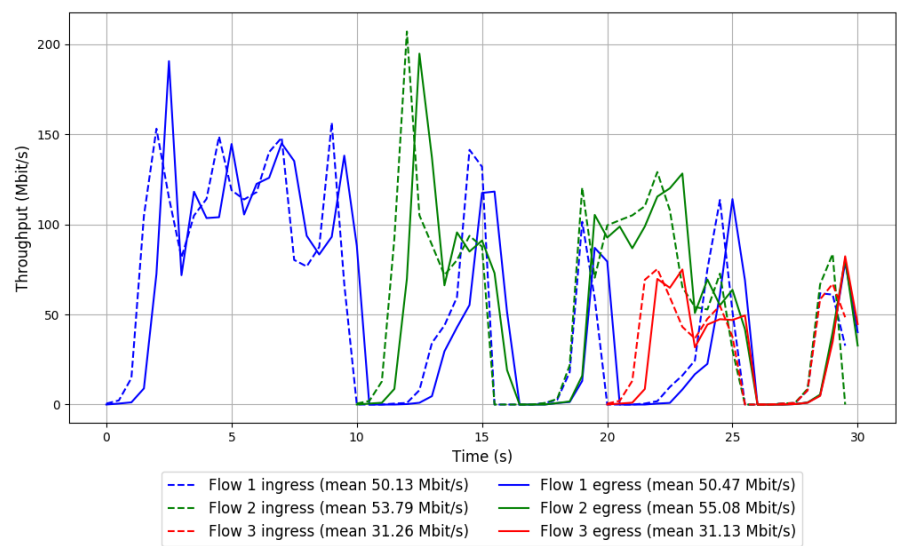
-- Flow 3:

Average throughput: 31.13 Mbit/s

95th percentile per-packet one-way delay: 105.021 ms

Loss rate: 2.46%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-07-10 15:37:33

End at: 2018-07-10 15:38:03

Local clock offset: -0.006 ms

Remote clock offset: 0.033 ms

Below is generated by plot.py at 2018-07-10 17:38:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 135.68 Mbit/s

95th percentile per-packet one-way delay: 95.267 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 82.99 Mbit/s

95th percentile per-packet one-way delay: 94.133 ms

Loss rate: 0.68%

-- Flow 2:

Average throughput: 48.15 Mbit/s

95th percentile per-packet one-way delay: 94.837 ms

Loss rate: 0.00%

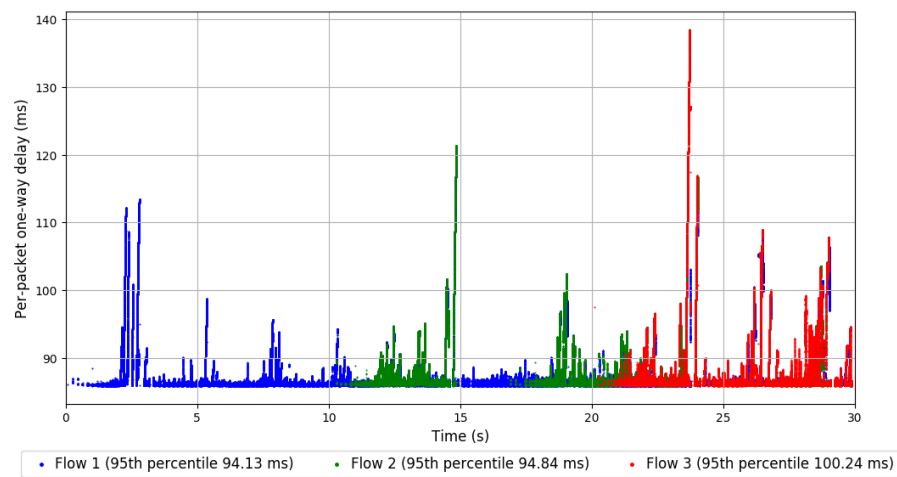
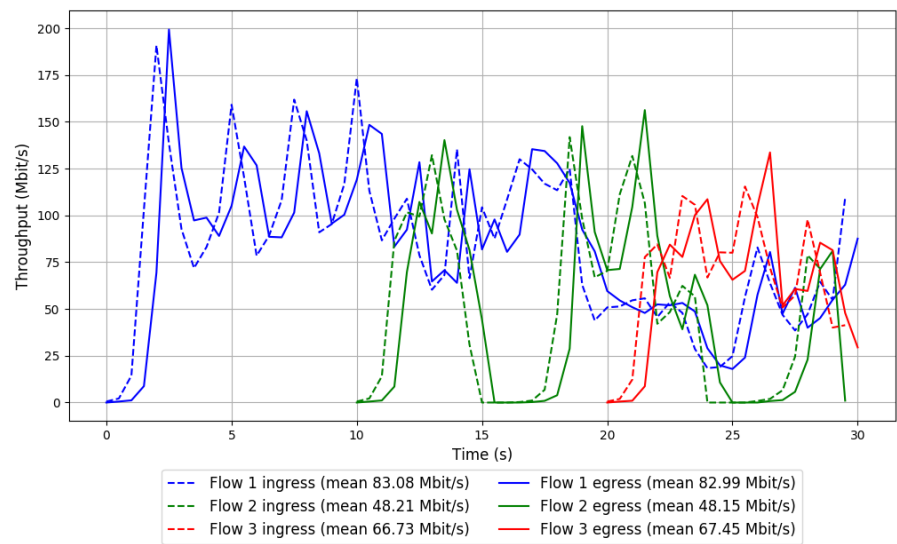
-- Flow 3:

Average throughput: 67.45 Mbit/s

95th percentile per-packet one-way delay: 100.238 ms

Loss rate: 0.92%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-07-10 16:02:13

End at: 2018-07-10 16:02:43

Local clock offset: 0.227 ms

Remote clock offset: 0.034 ms

Below is generated by plot.py at 2018-07-10 17:38:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 136.46 Mbit/s

95th percentile per-packet one-way delay: 97.892 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 84.11 Mbit/s

95th percentile per-packet one-way delay: 97.283 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 73.64 Mbit/s

95th percentile per-packet one-way delay: 97.630 ms

Loss rate: 0.00%

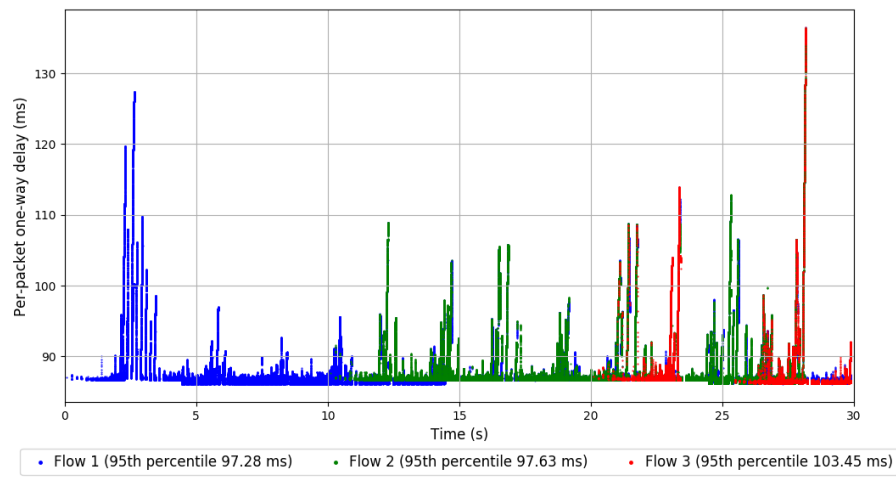
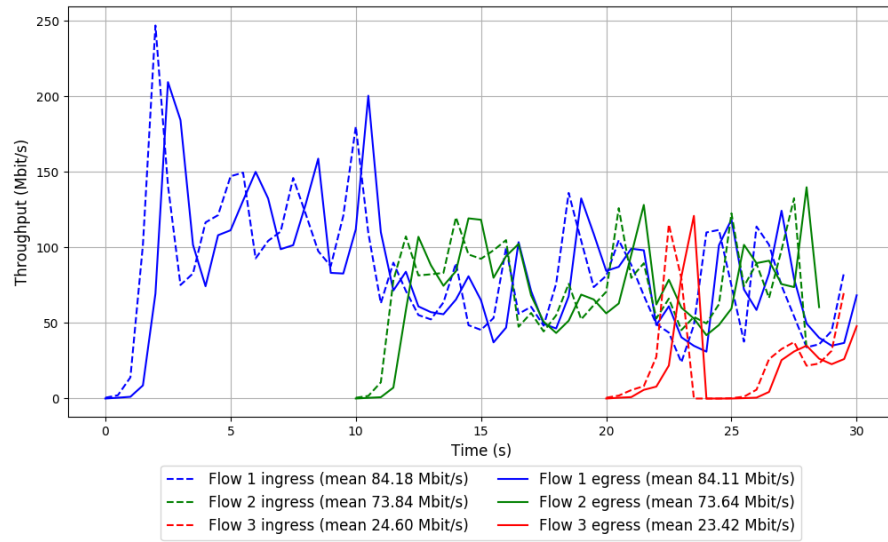
-- Flow 3:

Average throughput: 23.42 Mbit/s

95th percentile per-packet one-way delay: 103.454 ms

Loss rate: 6.37%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-07-10 16:26:40

End at: 2018-07-10 16:27:10

Local clock offset: -0.053 ms

Remote clock offset: 0.044 ms

Below is generated by plot.py at 2018-07-10 17:38:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 129.44 Mbit/s

95th percentile per-packet one-way delay: 98.204 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 70.98 Mbit/s

95th percentile per-packet one-way delay: 98.198 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 76.23 Mbit/s

95th percentile per-packet one-way delay: 95.758 ms

Loss rate: 1.14%

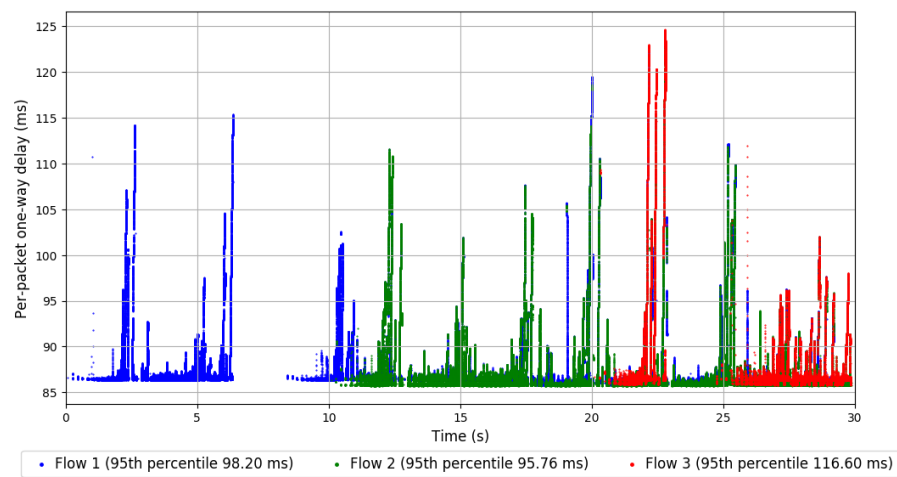
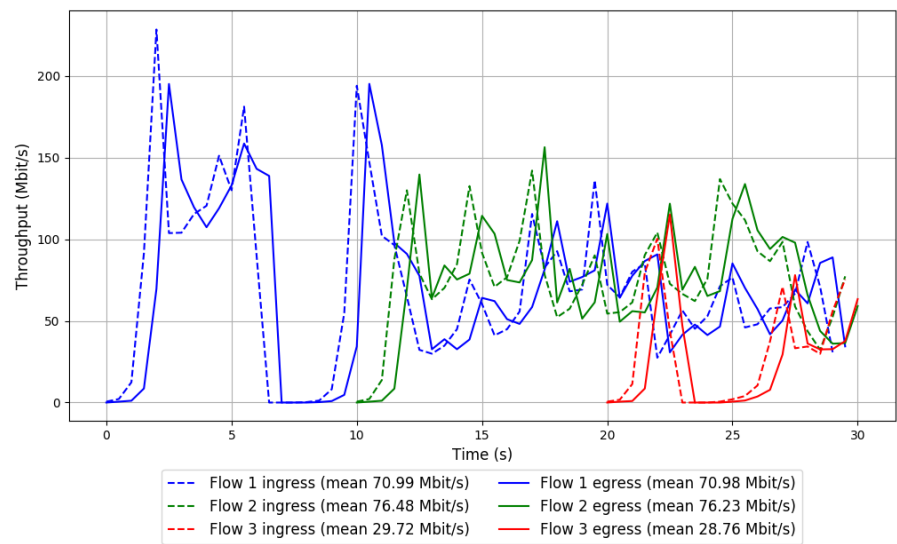
-- Flow 3:

Average throughput: 28.76 Mbit/s

95th percentile per-packet one-way delay: 116.602 ms

Loss rate: 5.29%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-07-10 16:51:02

End at: 2018-07-10 16:51:32

Local clock offset: 0.125 ms

Remote clock offset: 0.01 ms

Below is generated by plot.py at 2018-07-10 17:38:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 108.32 Mbit/s

95th percentile per-packet one-way delay: 95.786 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 77.87 Mbit/s

95th percentile per-packet one-way delay: 95.127 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 69.77 Mbit/s

95th percentile per-packet one-way delay: 108.919 ms

Loss rate: 0.00%

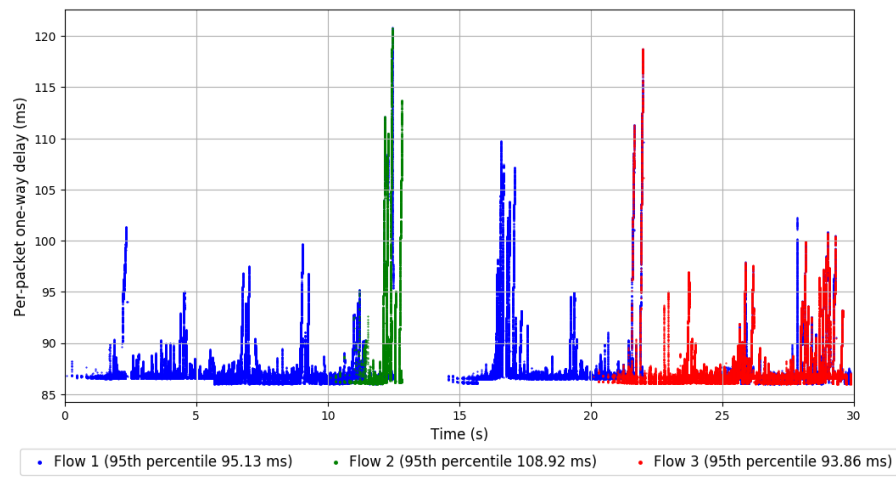
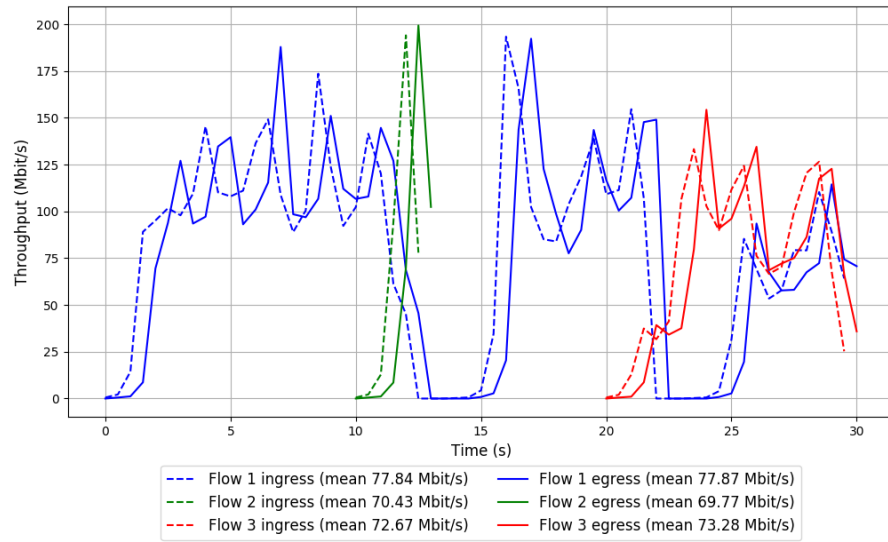
-- Flow 3:

Average throughput: 73.28 Mbit/s

95th percentile per-packet one-way delay: 93.859 ms

Loss rate: 0.91%

Run 10: Report of Copa — Data Link

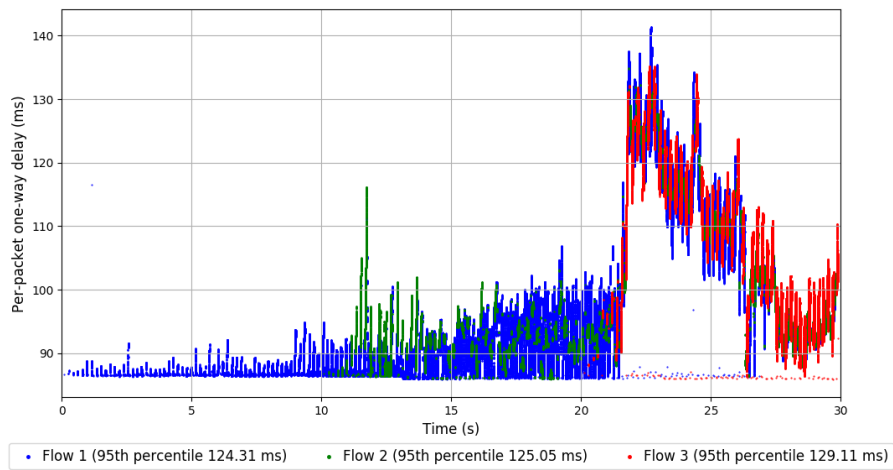
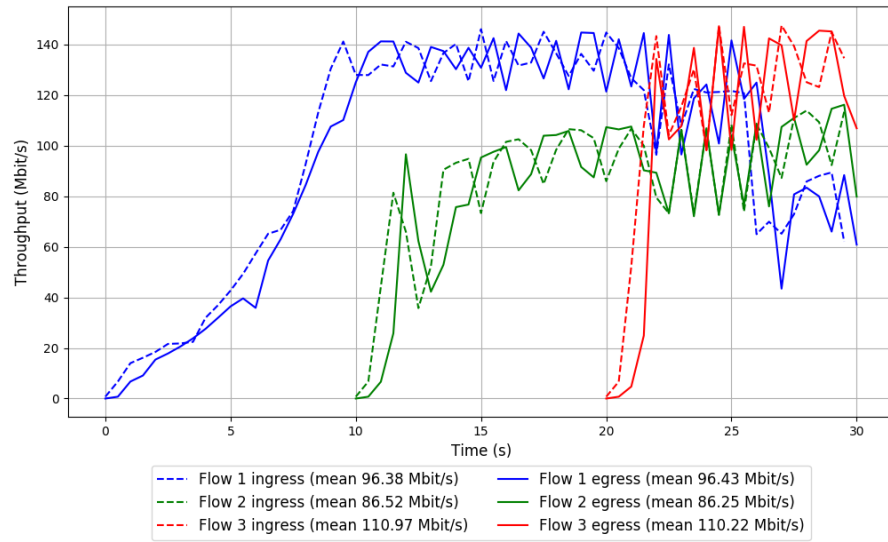


Run 1: Statistics of TCP Cubic

Start at: 2018-07-10 13:16:14
End at: 2018-07-10 13:16:44
Local clock offset: -0.031 ms
Remote clock offset: -0.014 ms

Below is generated by plot.py at 2018-07-10 17:38:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 189.81 Mbit/s
95th percentile per-packet one-way delay: 125.597 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 96.43 Mbit/s
95th percentile per-packet one-way delay: 124.308 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 86.25 Mbit/s
95th percentile per-packet one-way delay: 125.047 ms
Loss rate: 1.17%
-- Flow 3:
Average throughput: 110.22 Mbit/s
95th percentile per-packet one-way delay: 129.107 ms
Loss rate: 2.40%

Run 1: Report of TCP Cubic — Data Link

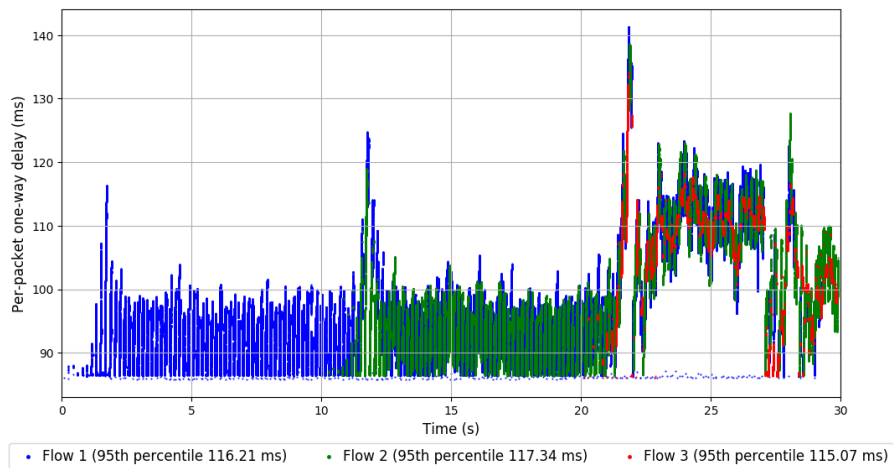
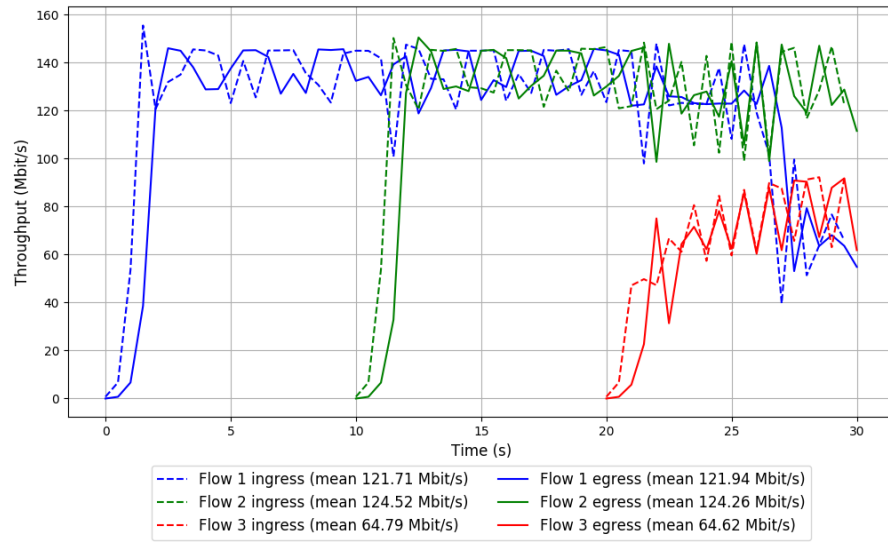


Run 2: Statistics of TCP Cubic

Start at: 2018-07-10 13:40:18
End at: 2018-07-10 13:40:48
Local clock offset: -0.083 ms
Remote clock offset: 0.037 ms

Below is generated by plot.py at 2018-07-10 17:38:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 225.46 Mbit/s
95th percentile per-packet one-way delay: 116.688 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 121.94 Mbit/s
95th percentile per-packet one-way delay: 116.214 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 124.26 Mbit/s
95th percentile per-packet one-way delay: 117.336 ms
Loss rate: 1.07%
-- Flow 3:
Average throughput: 64.62 Mbit/s
95th percentile per-packet one-way delay: 115.074 ms
Loss rate: 2.40%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-07-10 14:04:53

End at: 2018-07-10 14:05:23

Local clock offset: 0.023 ms

Remote clock offset: 0.009 ms

Below is generated by plot.py at 2018-07-10 17:38:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 210.10 Mbit/s

95th percentile per-packet one-way delay: 129.404 ms

Loss rate: 1.00%

-- Flow 1:

Average throughput: 94.47 Mbit/s

95th percentile per-packet one-way delay: 128.283 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 120.97 Mbit/s

95th percentile per-packet one-way delay: 129.199 ms

Loss rate: 1.01%

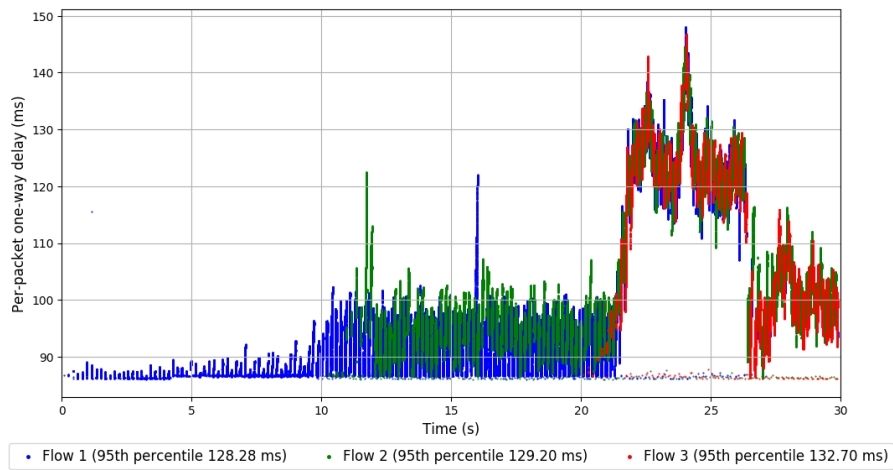
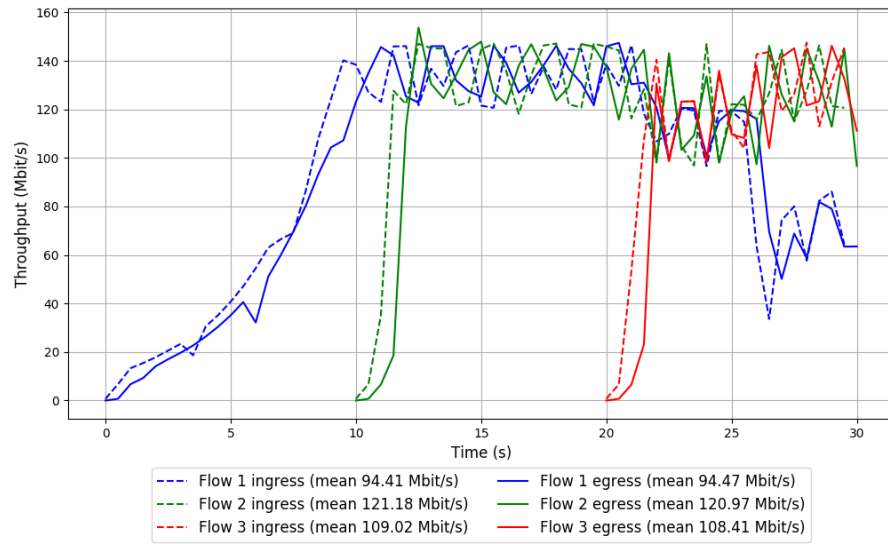
-- Flow 3:

Average throughput: 108.41 Mbit/s

95th percentile per-packet one-way delay: 132.697 ms

Loss rate: 2.24%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-07-10 14:29:38

End at: 2018-07-10 14:30:08

Local clock offset: -0.119 ms

Remote clock offset: 0.005 ms

Below is generated by plot.py at 2018-07-10 17:38:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 195.94 Mbit/s

95th percentile per-packet one-way delay: 120.365 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 93.43 Mbit/s

95th percentile per-packet one-way delay: 115.557 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 122.58 Mbit/s

95th percentile per-packet one-way delay: 120.006 ms

Loss rate: 0.54%

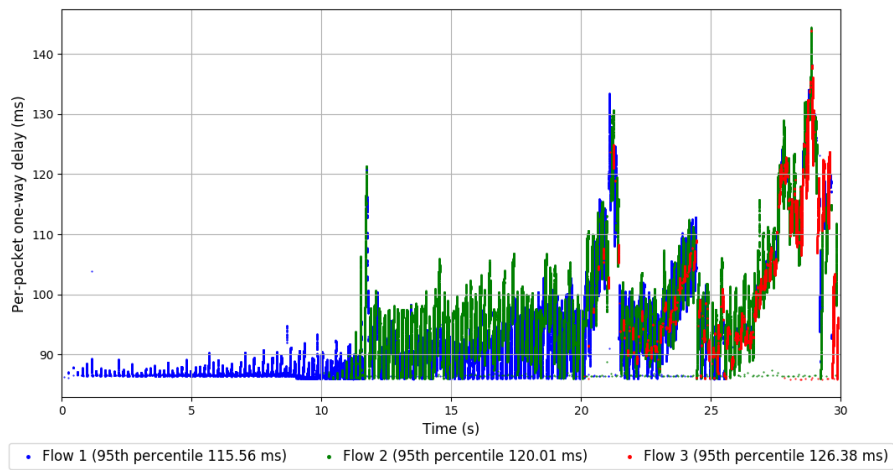
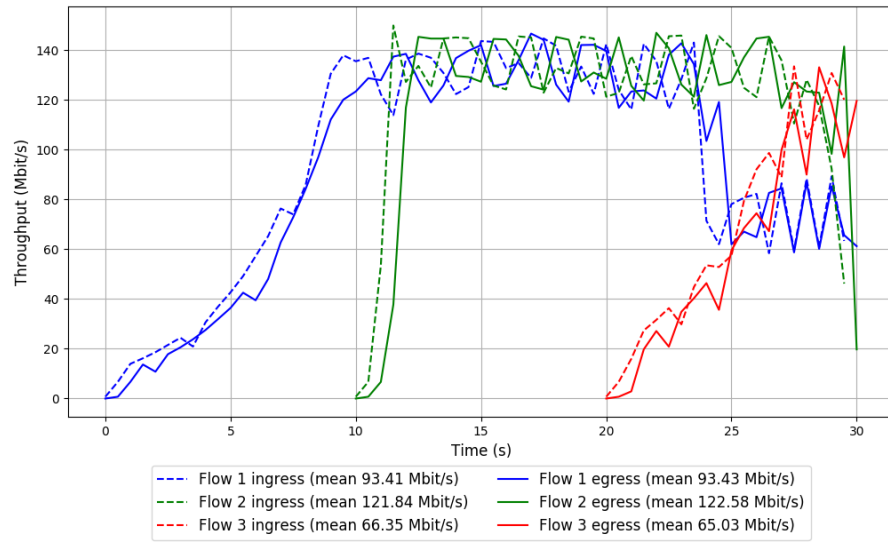
-- Flow 3:

Average throughput: 65.03 Mbit/s

95th percentile per-packet one-way delay: 126.380 ms

Loss rate: 3.63%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-07-10 14:54:06

End at: 2018-07-10 14:54:36

Local clock offset: 0.205 ms

Remote clock offset: 0.025 ms

Below is generated by plot.py at 2018-07-10 17:41:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 224.07 Mbit/s

95th percentile per-packet one-way delay: 152.020 ms

Loss rate: 0.98%

-- Flow 1:

Average throughput: 122.97 Mbit/s

95th percentile per-packet one-way delay: 148.853 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 106.86 Mbit/s

95th percentile per-packet one-way delay: 151.799 ms

Loss rate: 0.81%

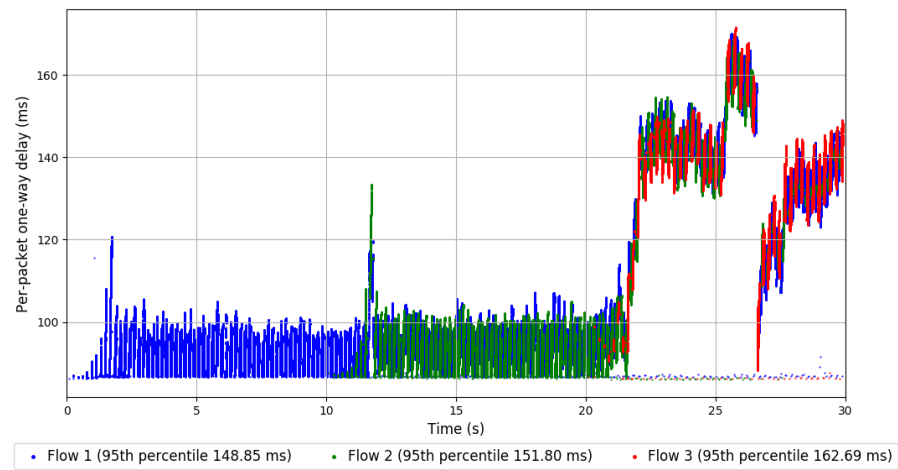
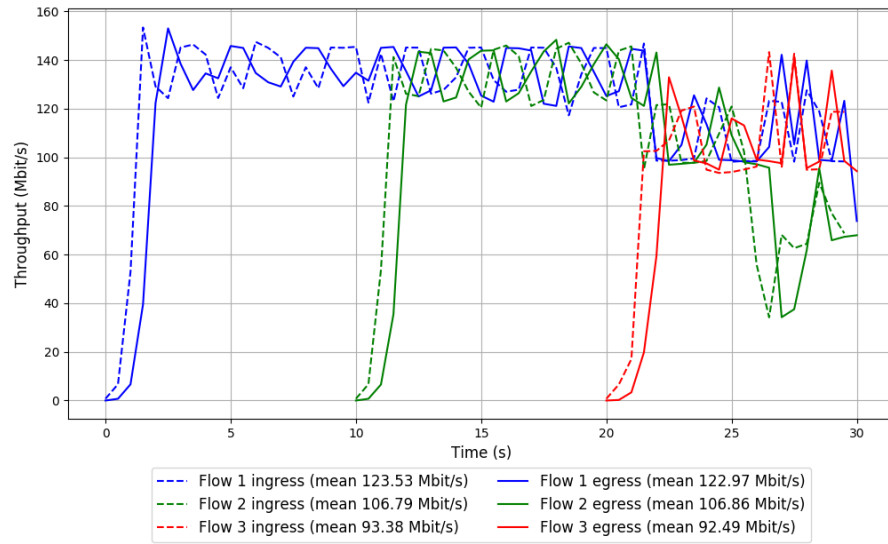
-- Flow 3:

Average throughput: 92.49 Mbit/s

95th percentile per-packet one-way delay: 162.687 ms

Loss rate: 2.60%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-07-10 15:18:55

End at: 2018-07-10 15:19:25

Local clock offset: 0.005 ms

Remote clock offset: 0.018 ms

Below is generated by plot.py at 2018-07-10 17:41:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 148.08 Mbit/s

95th percentile per-packet one-way delay: 99.656 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 130.13 Mbit/s

95th percentile per-packet one-way delay: 99.606 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 26.04 Mbit/s

95th percentile per-packet one-way delay: 100.822 ms

Loss rate: 4.11%

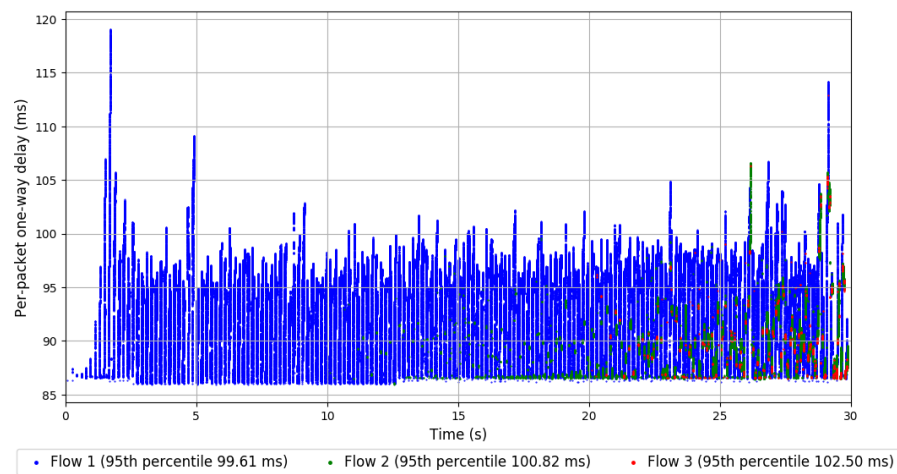
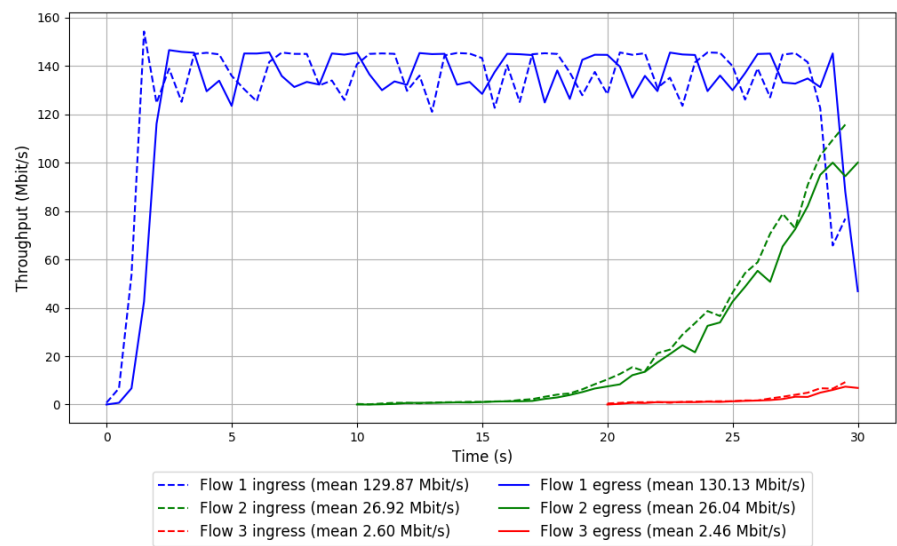
-- Flow 3:

Average throughput: 2.46 Mbit/s

95th percentile per-packet one-way delay: 102.495 ms

Loss rate: 7.05%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-07-10 15:43:37

End at: 2018-07-10 15:44:07

Local clock offset: -0.025 ms

Remote clock offset: 0.046 ms

Below is generated by plot.py at 2018-07-10 17:42:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 223.95 Mbit/s

95th percentile per-packet one-way delay: 145.033 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 115.60 Mbit/s

95th percentile per-packet one-way delay: 141.421 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 121.98 Mbit/s

95th percentile per-packet one-way delay: 145.118 ms

Loss rate: 1.03%

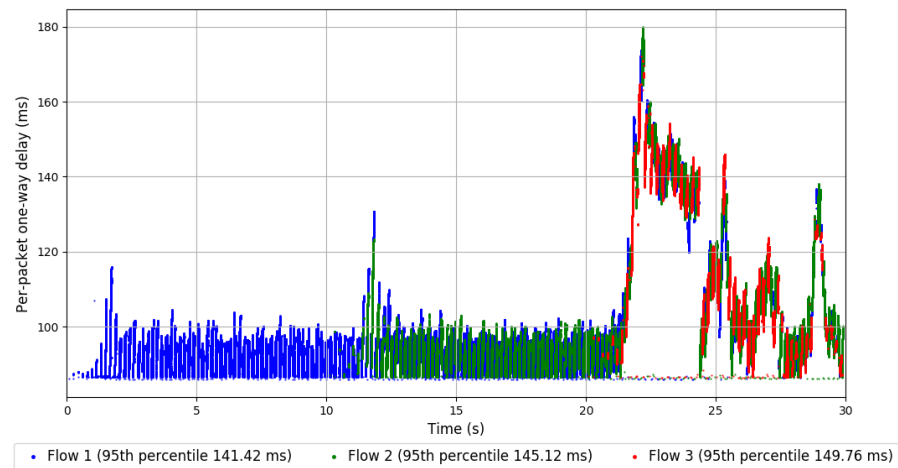
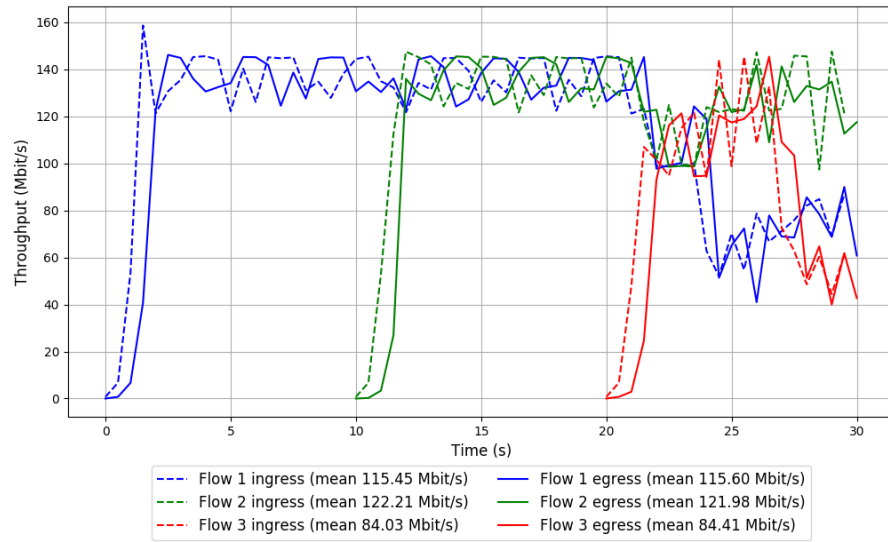
-- Flow 3:

Average throughput: 84.41 Mbit/s

95th percentile per-packet one-way delay: 149.765 ms

Loss rate: 1.29%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-07-10 16:08:15

End at: 2018-07-10 16:08:45

Local clock offset: -0.06 ms

Remote clock offset: 0.046 ms

Below is generated by plot.py at 2018-07-10 17:42:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 176.30 Mbit/s

95th percentile per-packet one-way delay: 109.512 ms

Loss rate: 1.12%

-- Flow 1:

Average throughput: 127.82 Mbit/s

95th percentile per-packet one-way delay: 108.532 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 27.00 Mbit/s

95th percentile per-packet one-way delay: 113.982 ms

Loss rate: 4.19%

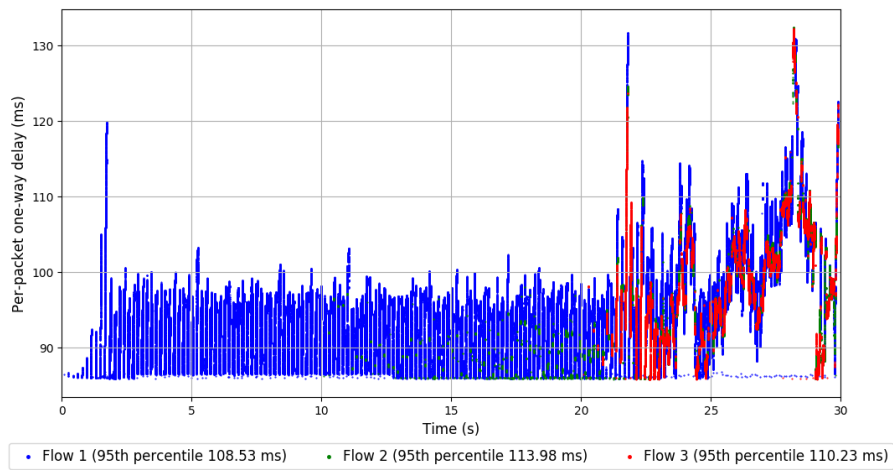
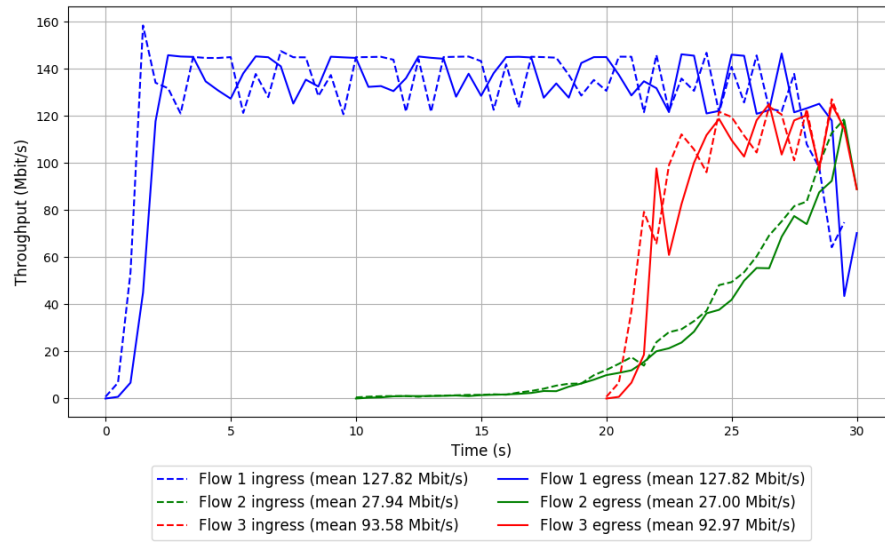
-- Flow 3:

Average throughput: 92.97 Mbit/s

95th percentile per-packet one-way delay: 110.226 ms

Loss rate: 2.38%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-07-10 16:32:42

End at: 2018-07-10 16:33:12

Local clock offset: 0.06 ms

Remote clock offset: 0.003 ms

Below is generated by plot.py at 2018-07-10 17:42:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 231.12 Mbit/s

95th percentile per-packet one-way delay: 111.539 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 129.11 Mbit/s

95th percentile per-packet one-way delay: 110.734 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 125.39 Mbit/s

95th percentile per-packet one-way delay: 111.817 ms

Loss rate: 1.05%

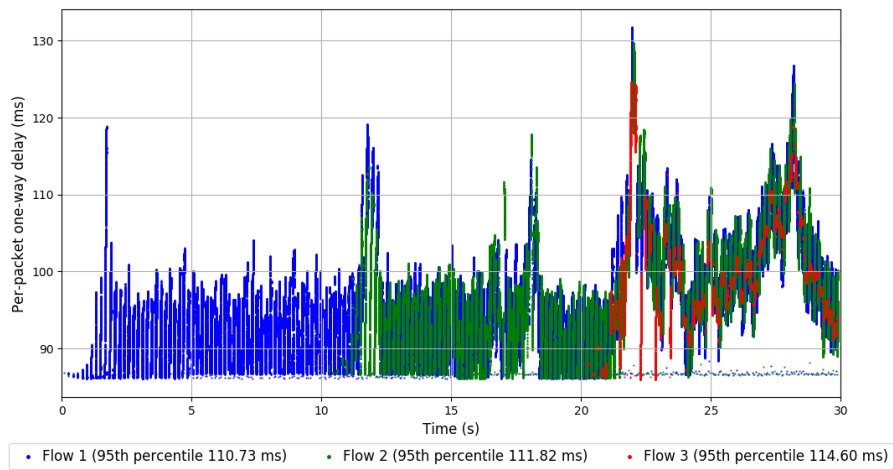
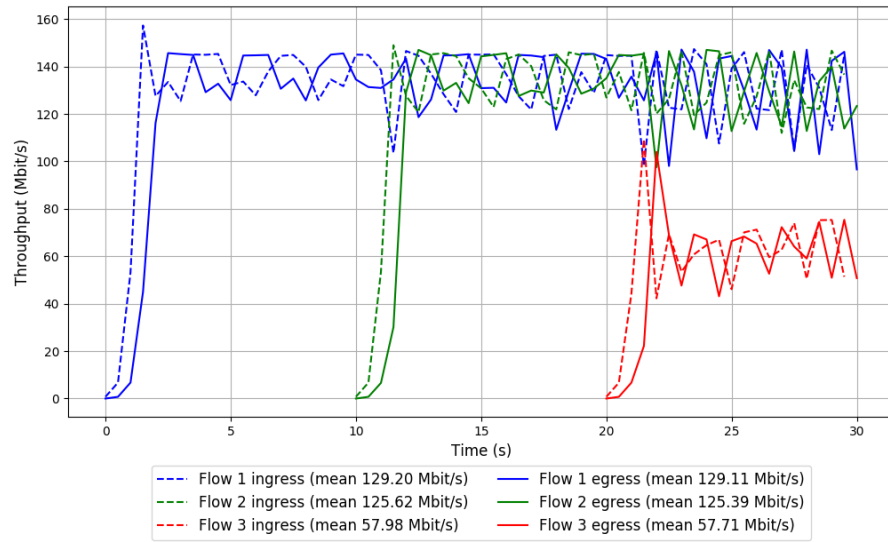
-- Flow 3:

Average throughput: 57.71 Mbit/s

95th percentile per-packet one-way delay: 114.601 ms

Loss rate: 2.20%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-07-10 16:57:00

End at: 2018-07-10 16:57:30

Local clock offset: 0.02 ms

Remote clock offset: 0.031 ms

Below is generated by plot.py at 2018-07-10 17:42:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 203.82 Mbit/s

95th percentile per-packet one-way delay: 112.144 ms

Loss rate: 0.95%

-- Flow 1:

Average throughput: 129.15 Mbit/s

95th percentile per-packet one-way delay: 112.736 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 79.62 Mbit/s

95th percentile per-packet one-way delay: 110.120 ms

Loss rate: 1.13%

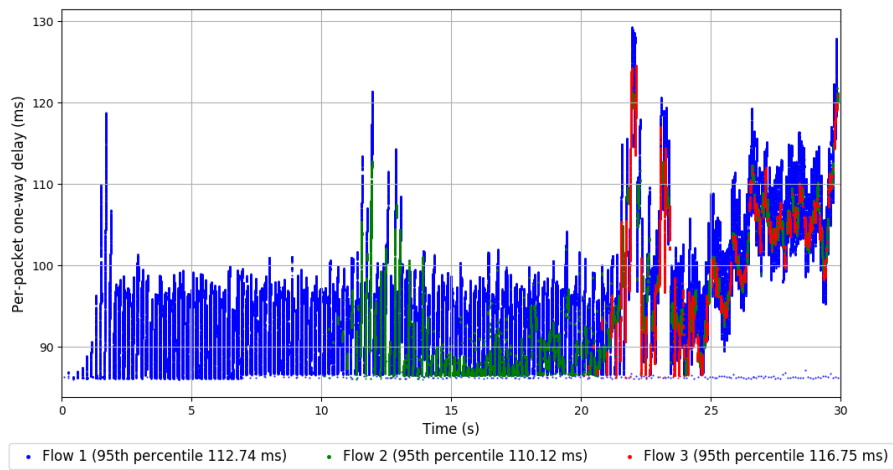
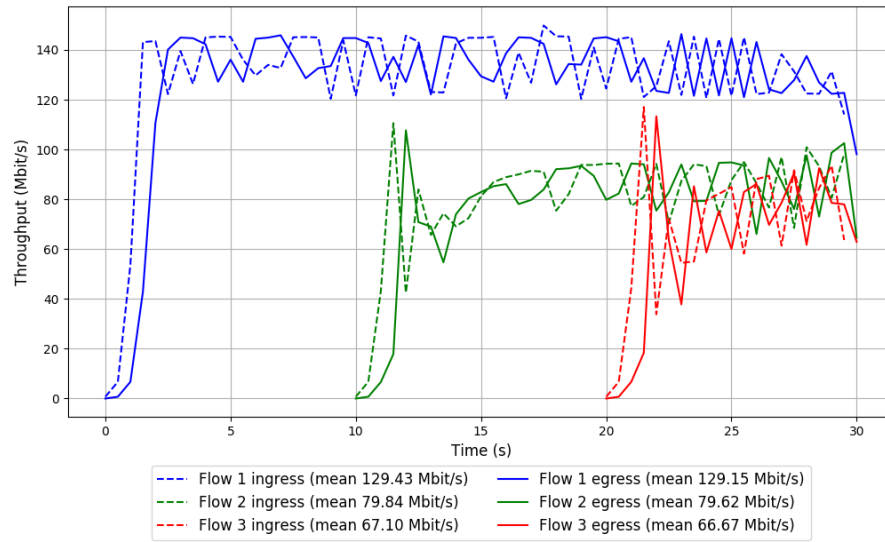
-- Flow 3:

Average throughput: 66.67 Mbit/s

95th percentile per-packet one-way delay: 116.747 ms

Loss rate: 2.36%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-07-10 13:14:16

End at: 2018-07-10 13:14:46

Local clock offset: -0.314 ms

Remote clock offset: 0.016 ms

Below is generated by plot.py at 2018-07-10 17:59:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 1032.83 Mbit/s

95th percentile per-packet one-way delay: 340.899 ms

Loss rate: 4.96%

-- Flow 1:

Average throughput: 513.44 Mbit/s

95th percentile per-packet one-way delay: 337.198 ms

Loss rate: 4.43%

-- Flow 2:

Average throughput: 549.19 Mbit/s

95th percentile per-packet one-way delay: 349.588 ms

Loss rate: 5.13%

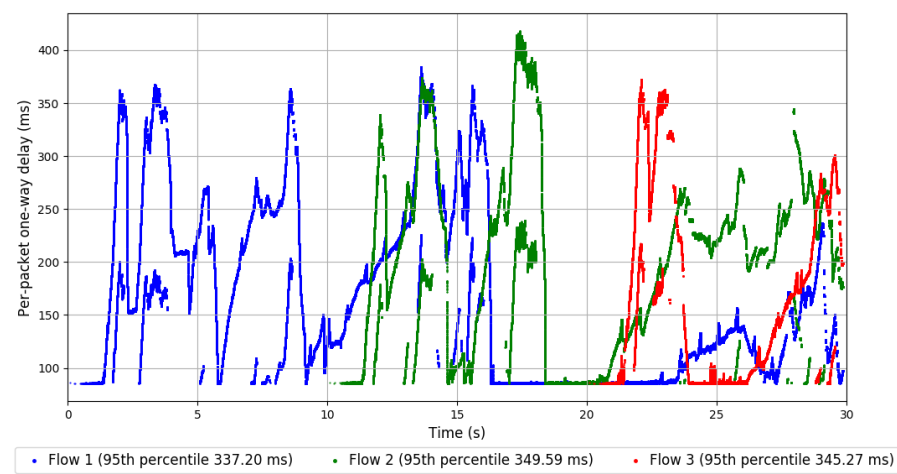
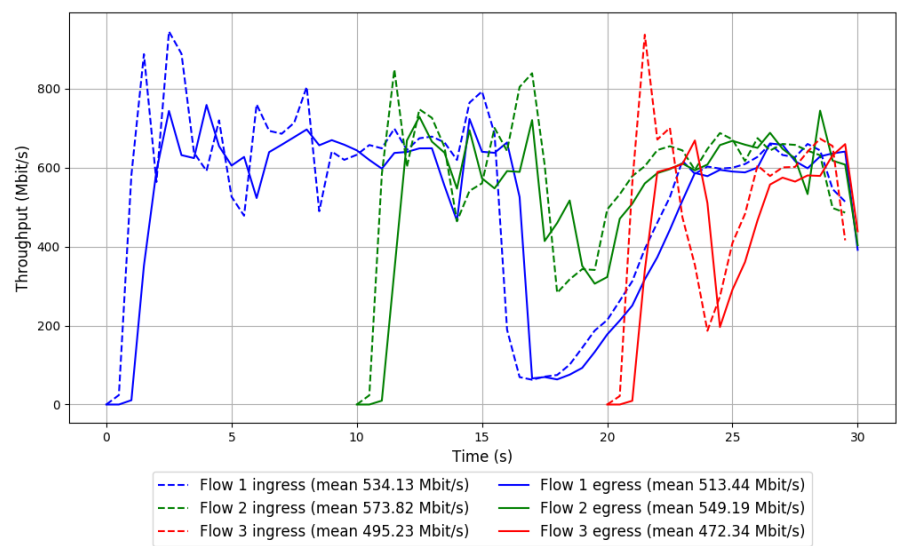
-- Flow 3:

Average throughput: 472.34 Mbit/s

95th percentile per-packet one-way delay: 345.271 ms

Loss rate: 6.28%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-07-10 13:38:23

End at: 2018-07-10 13:38:53

Local clock offset: -0.051 ms

Remote clock offset: 0.002 ms

Below is generated by plot.py at 2018-07-10 17:59:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 967.10 Mbit/s

95th percentile per-packet one-way delay: 301.029 ms

Loss rate: 1.96%

-- Flow 1:

Average throughput: 543.80 Mbit/s

95th percentile per-packet one-way delay: 304.621 ms

Loss rate: 1.90%

-- Flow 2:

Average throughput: 380.53 Mbit/s

95th percentile per-packet one-way delay: 262.407 ms

Loss rate: 0.75%

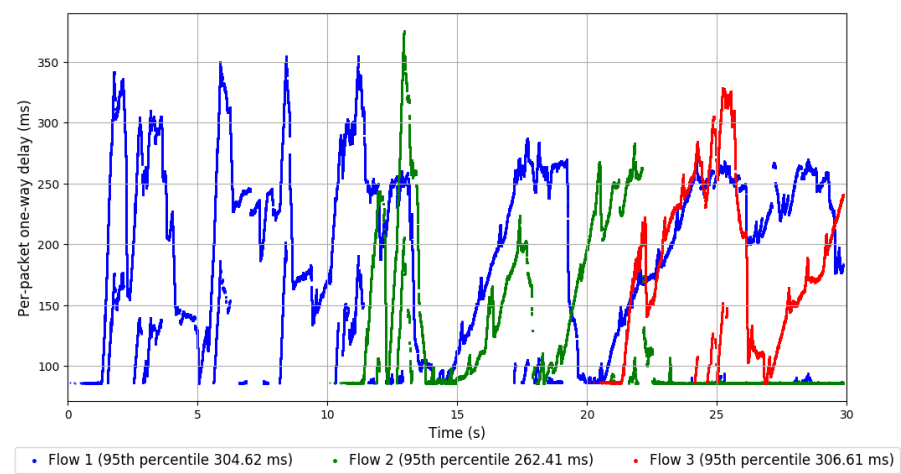
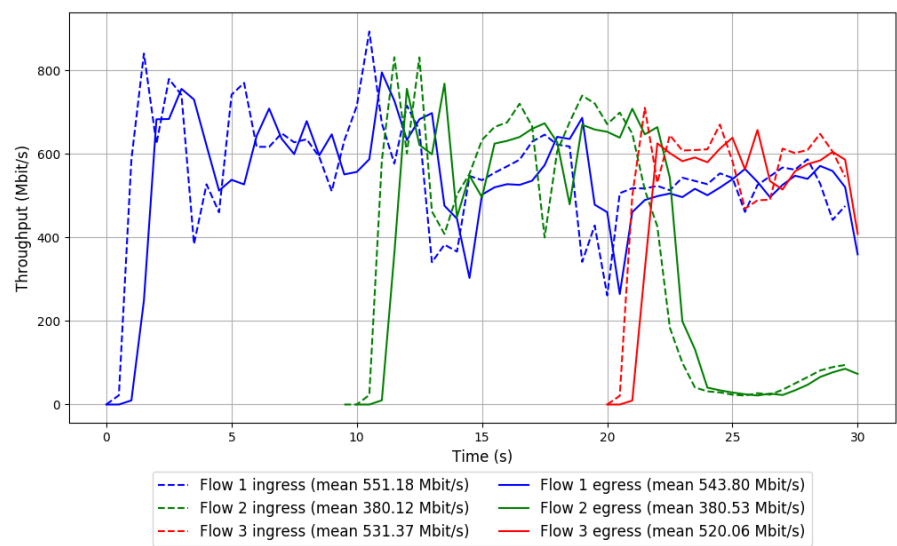
-- Flow 3:

Average throughput: 520.06 Mbit/s

95th percentile per-packet one-way delay: 306.609 ms

Loss rate: 3.84%

Run 2: Report of FillP — Data Link

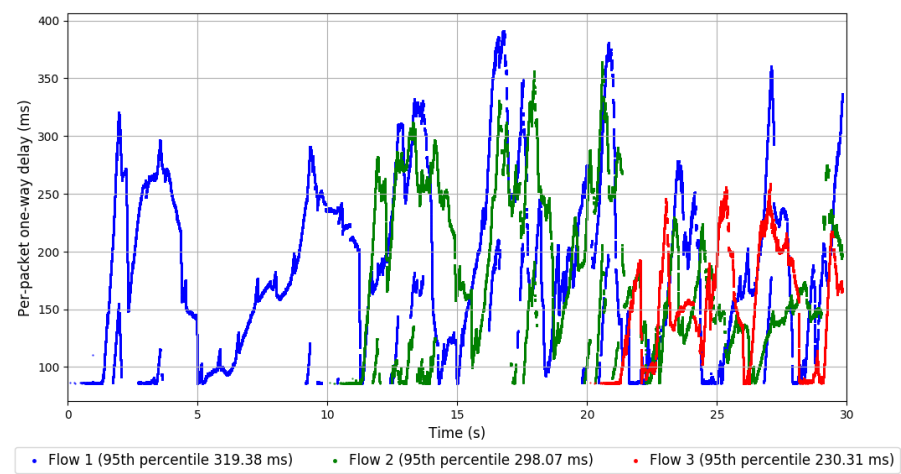
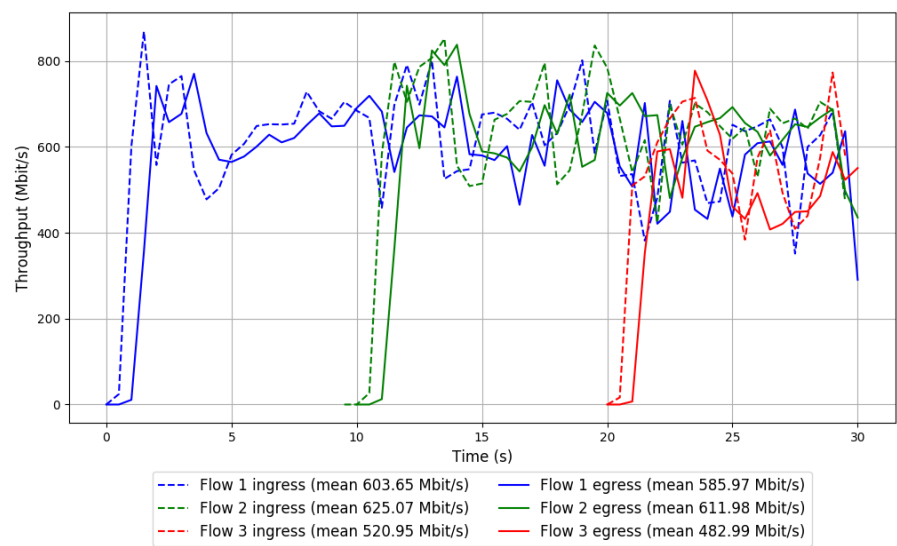


Run 3: Statistics of FillP

Start at: 2018-07-10 14:02:50
End at: 2018-07-10 14:03:20
Local clock offset: -0.019 ms
Remote clock offset: -0.027 ms

Below is generated by plot.py at 2018-07-10 18:05:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 1150.43 Mbit/s
95th percentile per-packet one-way delay: 305.076 ms
Loss rate: 4.09%
-- Flow 1:
Average throughput: 585.97 Mbit/s
95th percentile per-packet one-way delay: 319.378 ms
Loss rate: 3.49%
-- Flow 2:
Average throughput: 611.98 Mbit/s
95th percentile per-packet one-way delay: 298.073 ms
Loss rate: 2.95%
-- Flow 3:
Average throughput: 482.99 Mbit/s
95th percentile per-packet one-way delay: 230.307 ms
Loss rate: 8.92%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-07-10 14:27:35

End at: 2018-07-10 14:28:05

Local clock offset: 0.137 ms

Remote clock offset: 0.028 ms

Below is generated by plot.py at 2018-07-10 18:07:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 1195.47 Mbit/s

95th percentile per-packet one-way delay: 287.018 ms

Loss rate: 2.04%

-- Flow 1:

Average throughput: 623.28 Mbit/s

95th percentile per-packet one-way delay: 289.300 ms

Loss rate: 1.73%

-- Flow 2:

Average throughput: 589.51 Mbit/s

95th percentile per-packet one-way delay: 302.901 ms

Loss rate: 2.01%

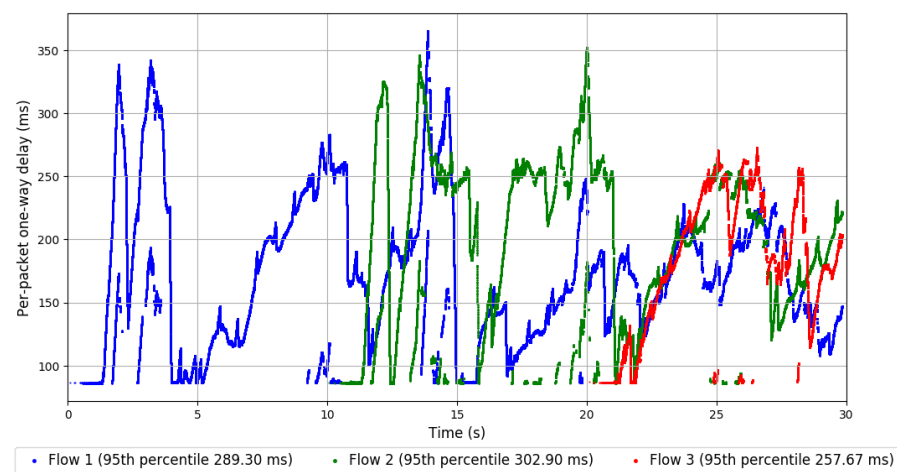
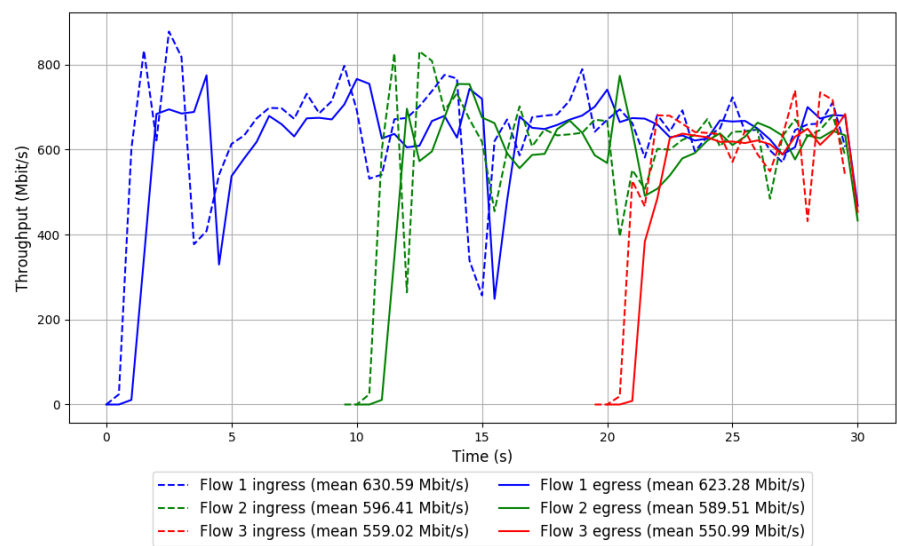
-- Flow 3:

Average throughput: 550.99 Mbit/s

95th percentile per-packet one-way delay: 257.673 ms

Loss rate: 3.16%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-07-10 14:52:03

End at: 2018-07-10 14:52:33

Local clock offset: 0.002 ms

Remote clock offset: 0.031 ms

Below is generated by plot.py at 2018-07-10 18:07:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 1146.62 Mbit/s

95th percentile per-packet one-way delay: 328.475 ms

Loss rate: 4.14%

-- Flow 1:

Average throughput: 598.22 Mbit/s

95th percentile per-packet one-way delay: 336.064 ms

Loss rate: 3.93%

-- Flow 2:

Average throughput: 610.09 Mbit/s

95th percentile per-packet one-way delay: 303.953 ms

Loss rate: 1.91%

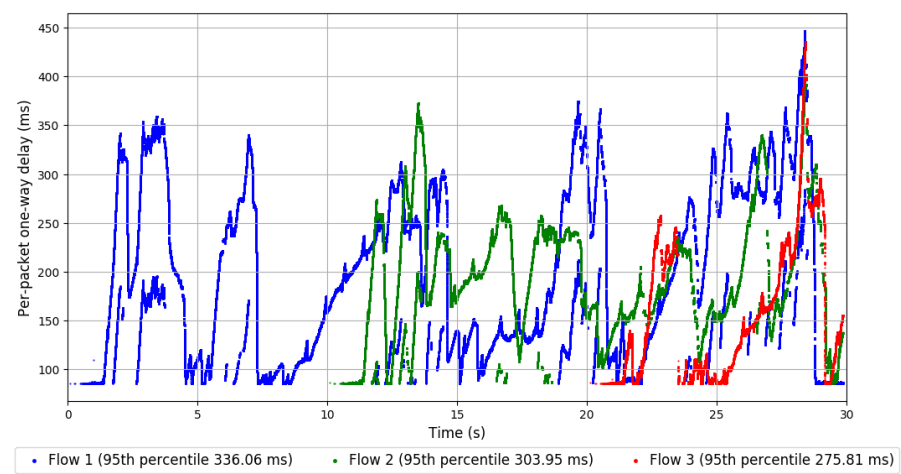
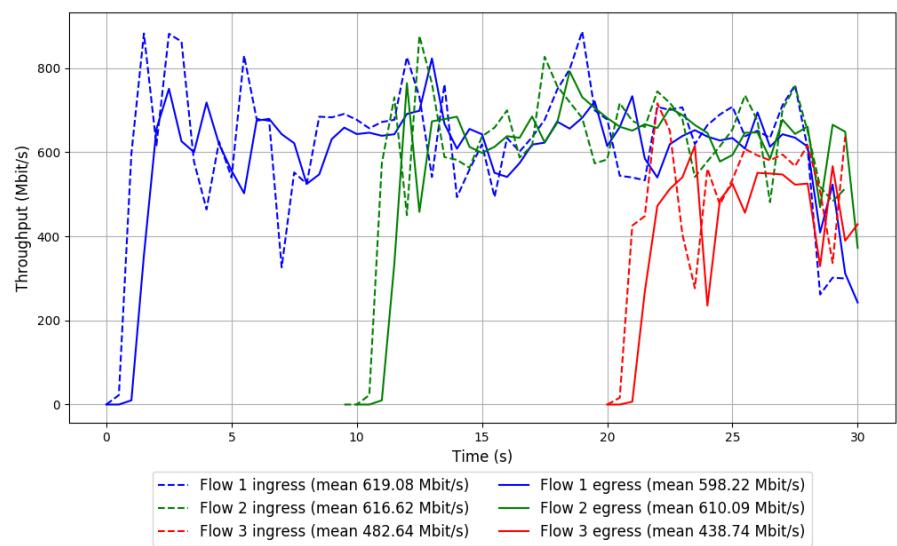
-- Flow 3:

Average throughput: 438.74 Mbit/s

95th percentile per-packet one-way delay: 275.814 ms

Loss rate: 10.69%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-07-10 15:16:50

End at: 2018-07-10 15:17:20

Local clock offset: -0.173 ms

Remote clock offset: 0.027 ms

Below is generated by plot.py at 2018-07-10 18:07:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 1162.52 Mbit/s

95th percentile per-packet one-way delay: 290.730 ms

Loss rate: 2.22%

-- Flow 1:

Average throughput: 638.62 Mbit/s

95th percentile per-packet one-way delay: 270.303 ms

Loss rate: 1.41%

-- Flow 2:

Average throughput: 515.65 Mbit/s

95th percentile per-packet one-way delay: 312.853 ms

Loss rate: 2.84%

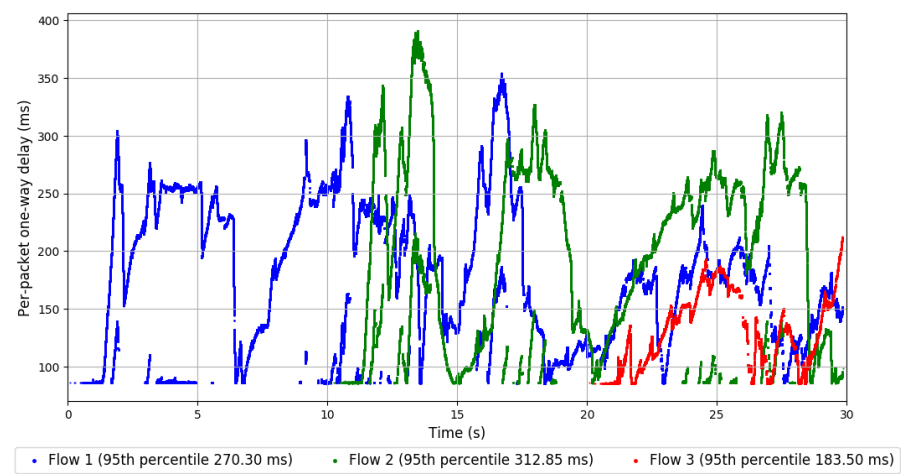
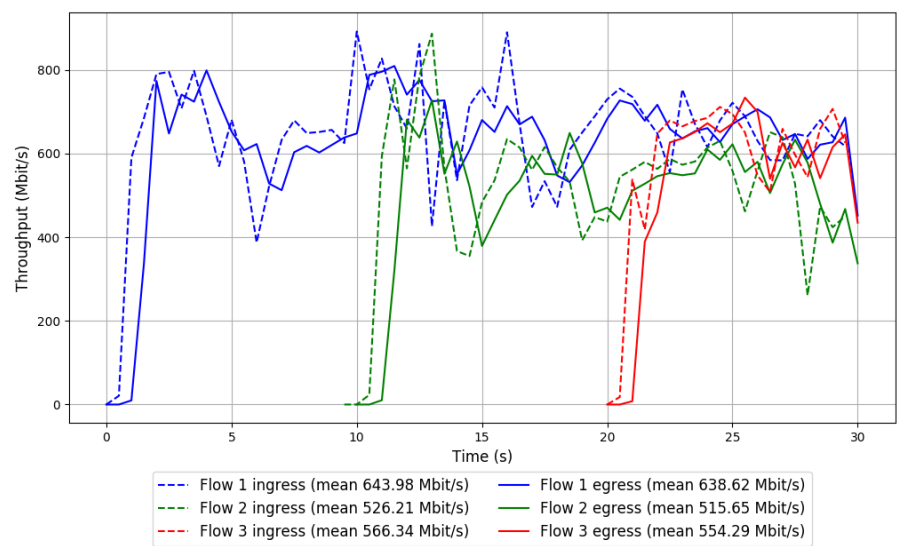
-- Flow 3:

Average throughput: 554.29 Mbit/s

95th percentile per-packet one-way delay: 183.502 ms

Loss rate: 3.83%

Run 6: Report of FillP — Data Link

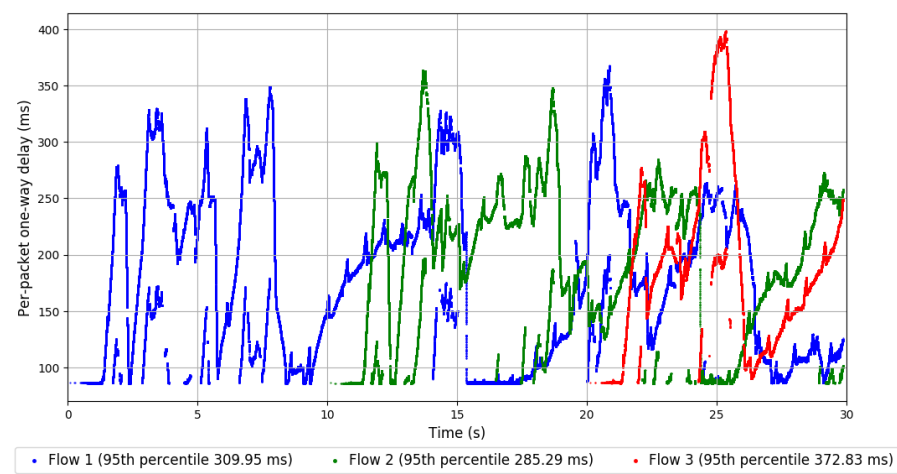
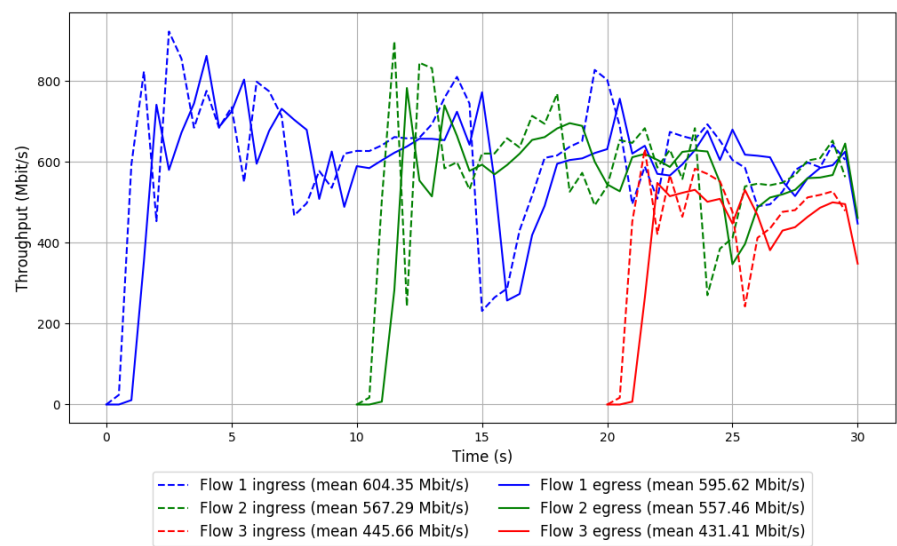


Run 7: Statistics of FillP

Start at: 2018-07-10 15:41:36
End at: 2018-07-10 15:42:06
Local clock offset: -0.028 ms
Remote clock offset: 0.038 ms

Below is generated by plot.py at 2018-07-10 18:07:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 1106.12 Mbit/s
95th percentile per-packet one-way delay: 309.219 ms
Loss rate: 2.58%
-- Flow 1:
Average throughput: 595.62 Mbit/s
95th percentile per-packet one-way delay: 309.953 ms
Loss rate: 2.01%
-- Flow 2:
Average throughput: 557.46 Mbit/s
95th percentile per-packet one-way delay: 285.286 ms
Loss rate: 2.59%
-- Flow 3:
Average throughput: 431.41 Mbit/s
95th percentile per-packet one-way delay: 372.835 ms
Loss rate: 4.88%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-07-10 16:06:16

End at: 2018-07-10 16:06:46

Local clock offset: 0.058 ms

Remote clock offset: 0.011 ms

Below is generated by plot.py at 2018-07-10 18:07:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 1039.21 Mbit/s

95th percentile per-packet one-way delay: 310.312 ms

Loss rate: 2.24%

-- Flow 1:

Average throughput: 500.88 Mbit/s

95th percentile per-packet one-way delay: 302.137 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 549.00 Mbit/s

95th percentile per-packet one-way delay: 332.163 ms

Loss rate: 2.95%

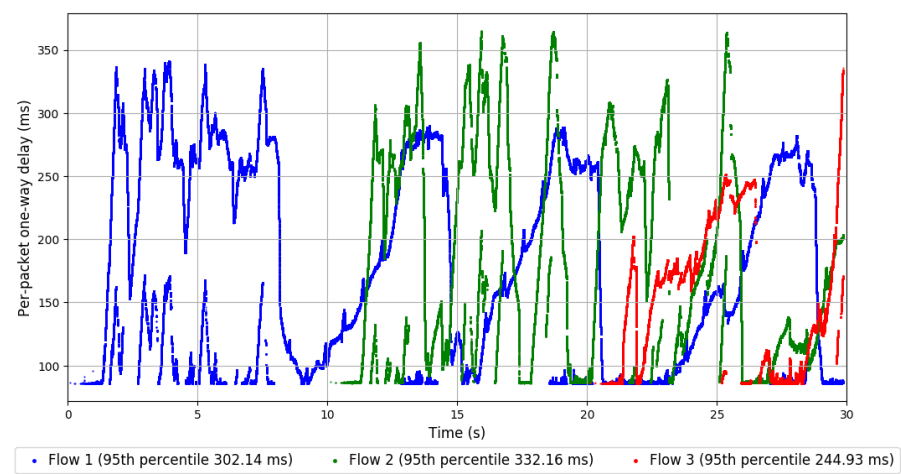
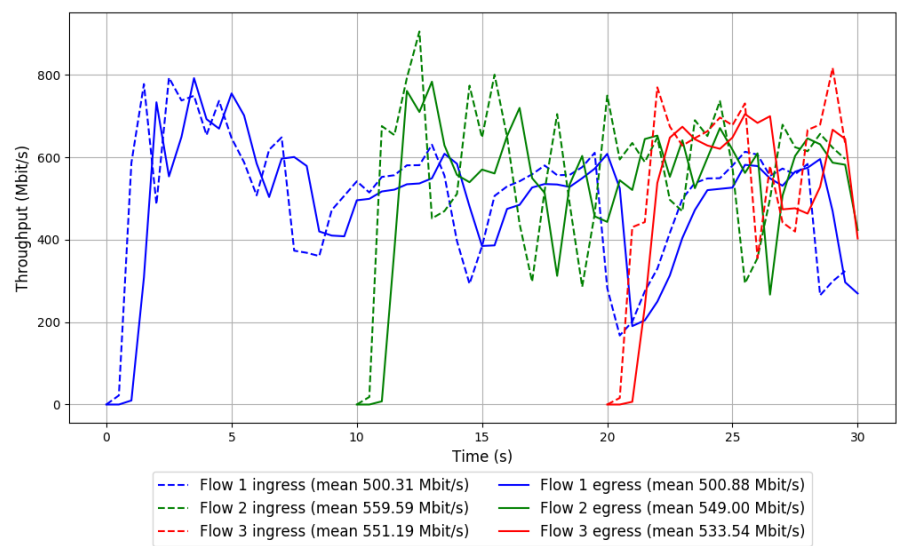
-- Flow 3:

Average throughput: 533.54 Mbit/s

95th percentile per-packet one-way delay: 244.934 ms

Loss rate: 5.29%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-07-10 16:30:43

End at: 2018-07-10 16:31:13

Local clock offset: 0.167 ms

Remote clock offset: 0.025 ms

Below is generated by plot.py at 2018-07-10 18:22:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 1064.21 Mbit/s

95th percentile per-packet one-way delay: 283.758 ms

Loss rate: 2.55%

-- Flow 1:

Average throughput: 576.77 Mbit/s

95th percentile per-packet one-way delay: 284.496 ms

Loss rate: 2.74%

-- Flow 2:

Average throughput: 509.33 Mbit/s

95th percentile per-packet one-way delay: 279.975 ms

Loss rate: 1.56%

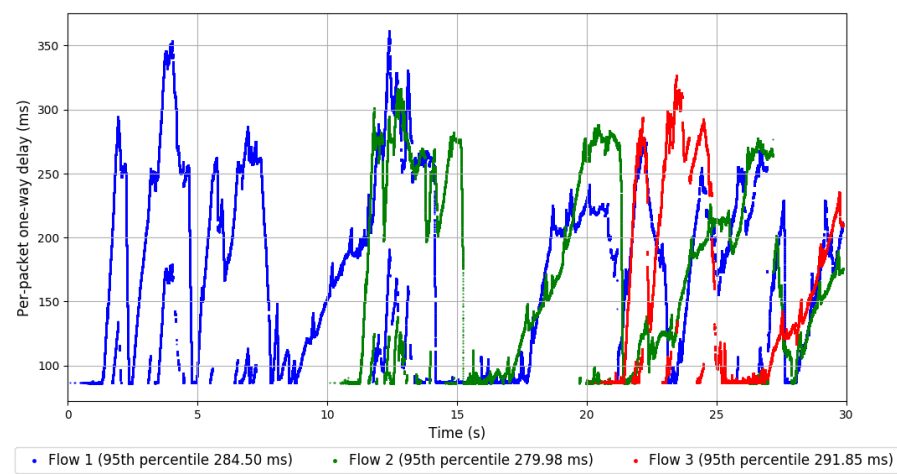
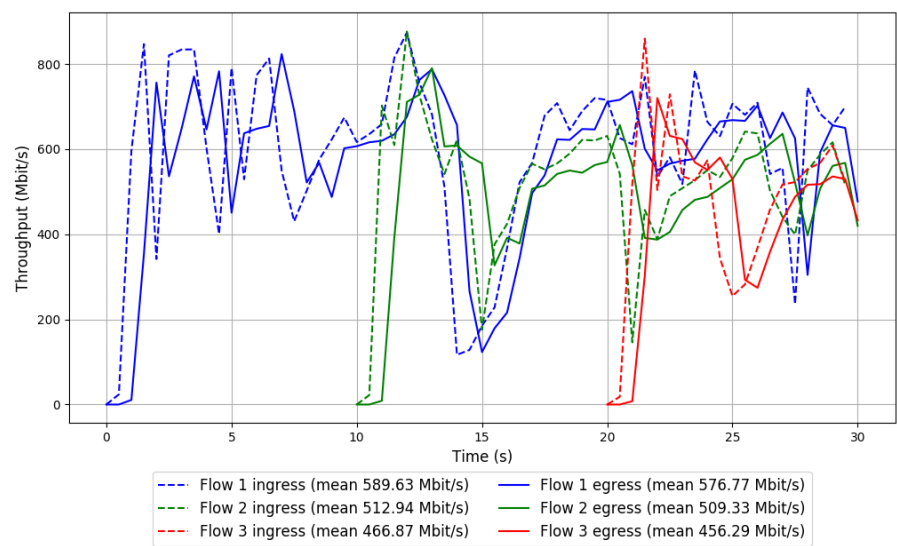
-- Flow 3:

Average throughput: 456.29 Mbit/s

95th percentile per-packet one-way delay: 291.852 ms

Loss rate: 3.96%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-07-10 16:55:02

End at: 2018-07-10 16:55:32

Local clock offset: 0.043 ms

Remote clock offset: 0.007 ms

Below is generated by plot.py at 2018-07-10 18:23:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 1013.48 Mbit/s

95th percentile per-packet one-way delay: 339.803 ms

Loss rate: 7.42%

-- Flow 1:

Average throughput: 501.22 Mbit/s

95th percentile per-packet one-way delay: 342.929 ms

Loss rate: 6.69%

-- Flow 2:

Average throughput: 507.26 Mbit/s

95th percentile per-packet one-way delay: 347.593 ms

Loss rate: 10.44%

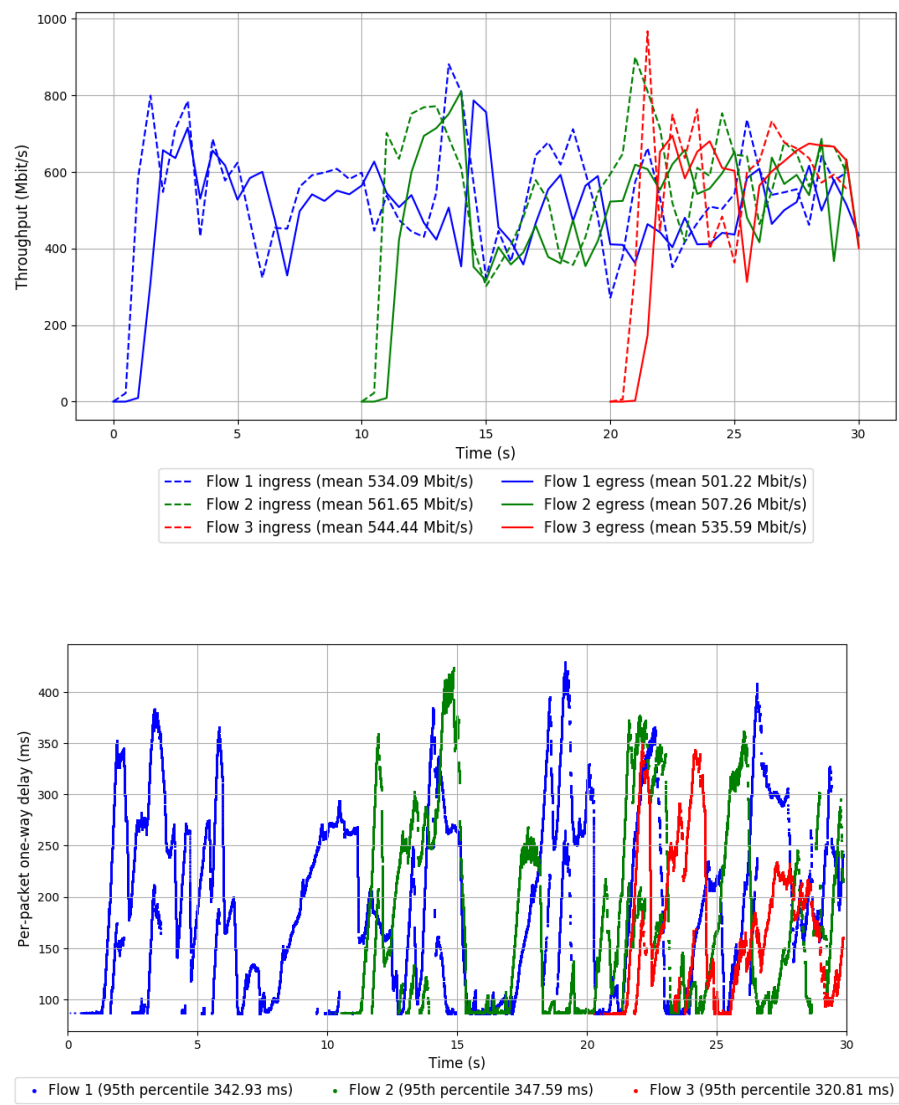
-- Flow 3:

Average throughput: 535.59 Mbit/s

95th percentile per-packet one-way delay: 320.813 ms

Loss rate: 3.35%

Run 10: Report of FillP — Data Link

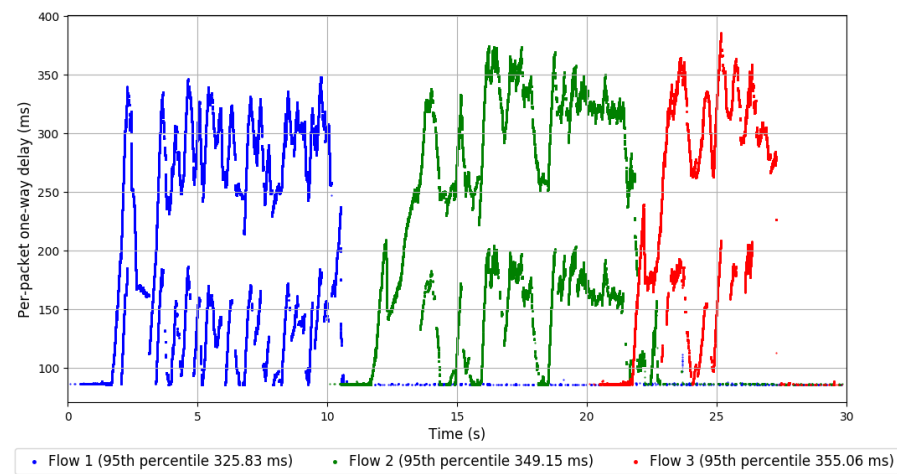
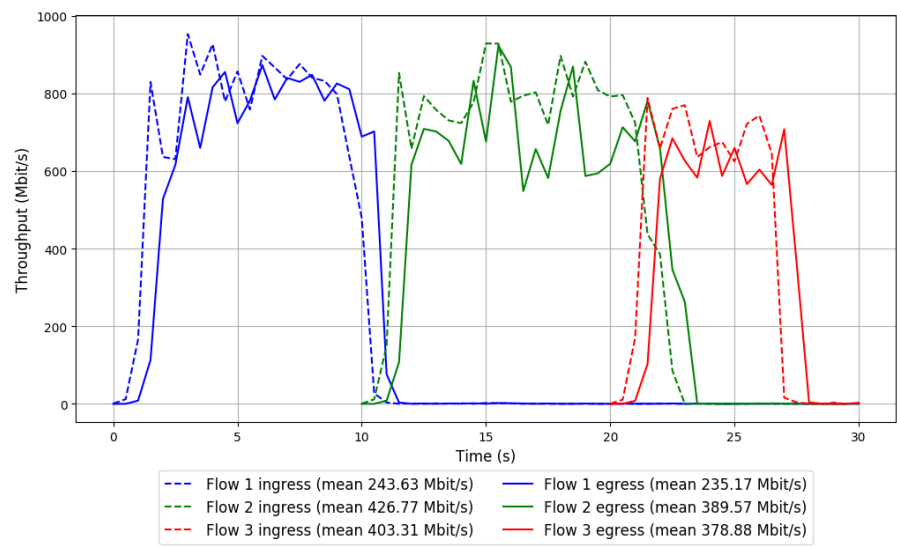


Run 1: Statistics of FillP-Sheep

Start at: 2018-07-10 13:24:36
End at: 2018-07-10 13:25:06
Local clock offset: -0.012 ms
Remote clock offset: -0.009 ms

Below is generated by plot.py at 2018-07-10 18:23:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 617.26 Mbit/s
95th percentile per-packet one-way delay: 344.762 ms
Loss rate: 6.78%
-- Flow 1:
Average throughput: 235.17 Mbit/s
95th percentile per-packet one-way delay: 325.835 ms
Loss rate: 3.69%
-- Flow 2:
Average throughput: 389.57 Mbit/s
95th percentile per-packet one-way delay: 349.149 ms
Loss rate: 9.51%
-- Flow 3:
Average throughput: 378.88 Mbit/s
95th percentile per-packet one-way delay: 355.058 ms
Loss rate: 6.55%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-07-10 13:48:32

End at: 2018-07-10 13:49:02

Local clock offset: -0.067 ms

Remote clock offset: 0.017 ms

Below is generated by plot.py at 2018-07-10 18:30:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 1095.73 Mbit/s

95th percentile per-packet one-way delay: 292.862 ms

Loss rate: 0.94%

-- Flow 1:

Average throughput: 577.69 Mbit/s

95th percentile per-packet one-way delay: 306.508 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 552.43 Mbit/s

95th percentile per-packet one-way delay: 286.036 ms

Loss rate: 0.95%

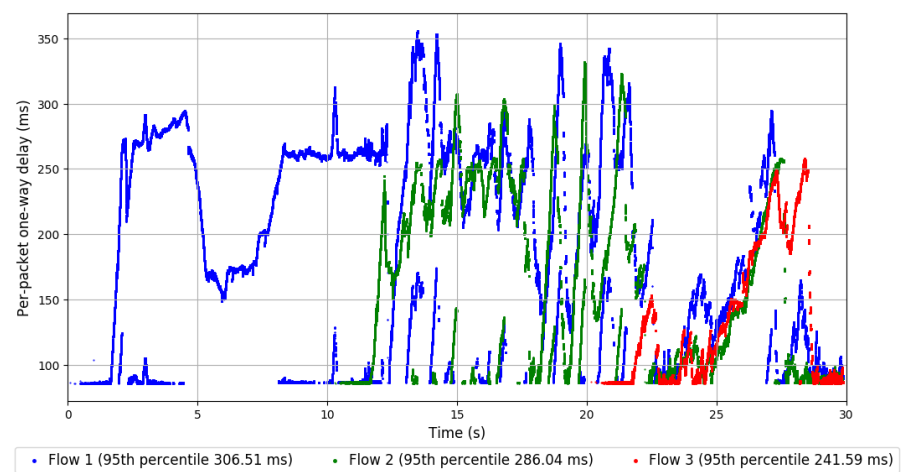
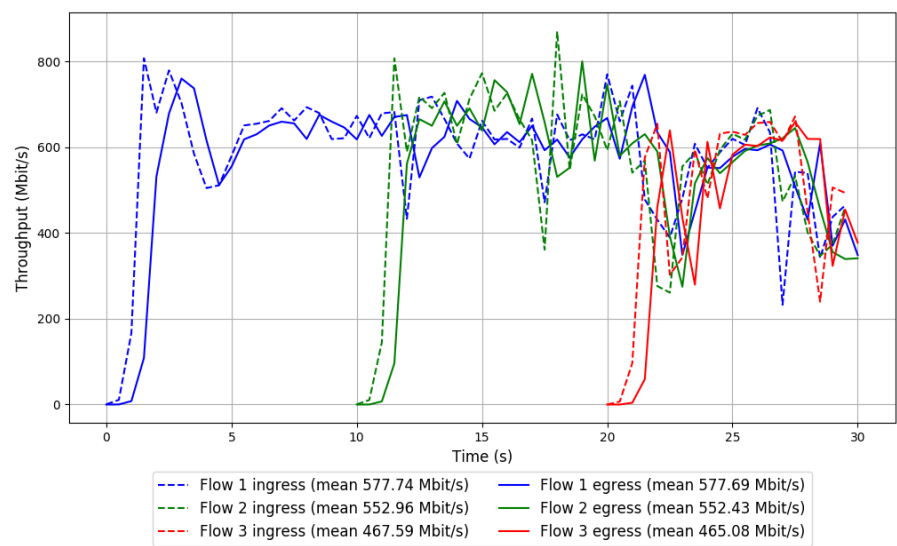
-- Flow 3:

Average throughput: 465.08 Mbit/s

95th percentile per-packet one-way delay: 241.591 ms

Loss rate: 2.26%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2018-07-10 14:13:18

End at: 2018-07-10 14:13:48

Local clock offset: 0.001 ms

Remote clock offset: 0.036 ms

Below is generated by plot.py at 2018-07-10 18:32:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 1156.99 Mbit/s

95th percentile per-packet one-way delay: 310.997 ms

Loss rate: 2.51%

-- Flow 1:

Average throughput: 631.72 Mbit/s

95th percentile per-packet one-way delay: 294.584 ms

Loss rate: 1.40%

-- Flow 2:

Average throughput: 556.94 Mbit/s

95th percentile per-packet one-way delay: 326.303 ms

Loss rate: 3.80%

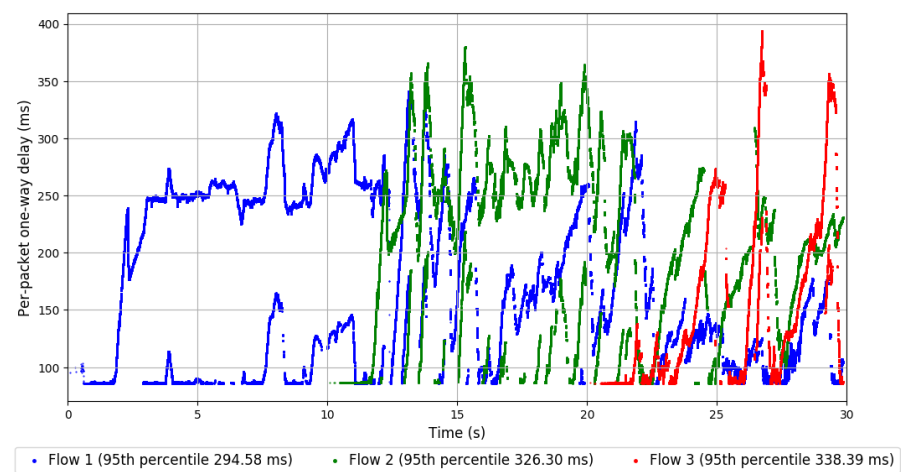
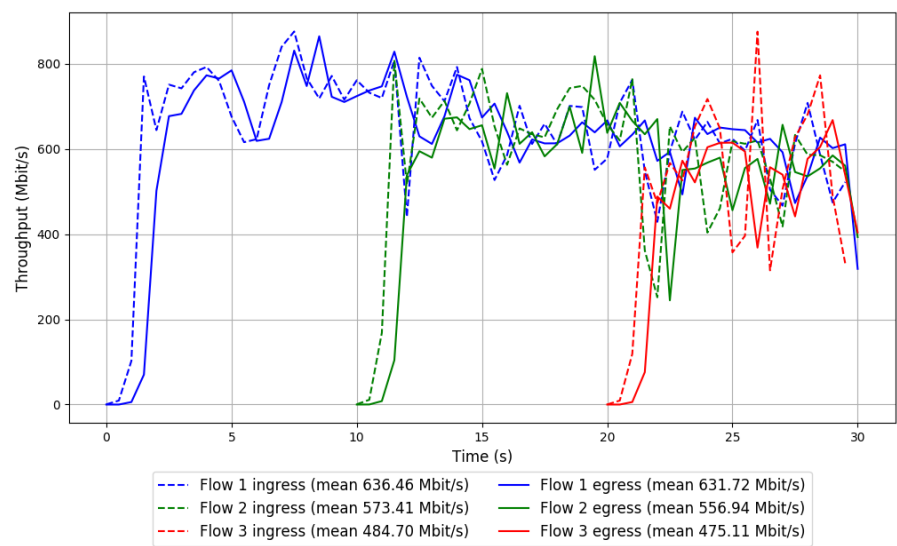
-- Flow 3:

Average throughput: 475.11 Mbit/s

95th percentile per-packet one-way delay: 338.386 ms

Loss rate: 3.85%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2018-07-10 14:38:04

End at: 2018-07-10 14:38:34

Local clock offset: 0.15 ms

Remote clock offset: 0.043 ms

Below is generated by plot.py at 2018-07-10 18:32:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 698.75 Mbit/s

95th percentile per-packet one-way delay: 362.011 ms

Loss rate: 9.82%

-- Flow 1:

Average throughput: 175.22 Mbit/s

95th percentile per-packet one-way delay: 359.113 ms

Loss rate: 12.89%

-- Flow 2:

Average throughput: 526.45 Mbit/s

95th percentile per-packet one-way delay: 366.849 ms

Loss rate: 10.69%

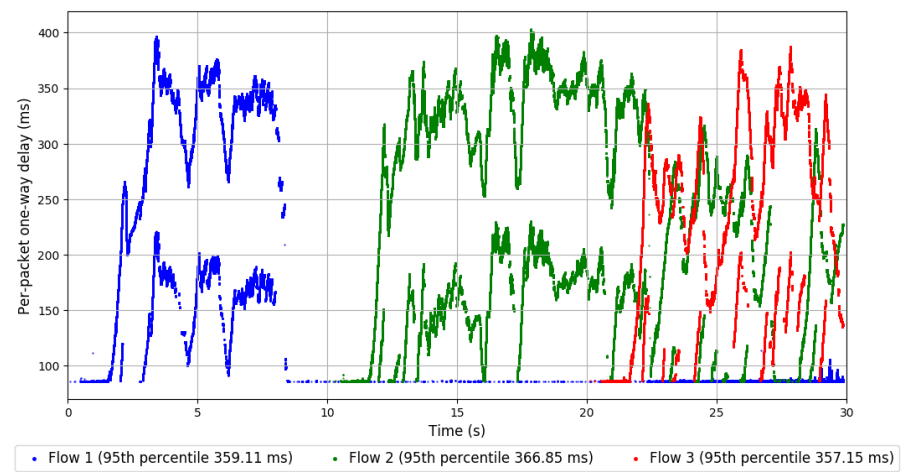
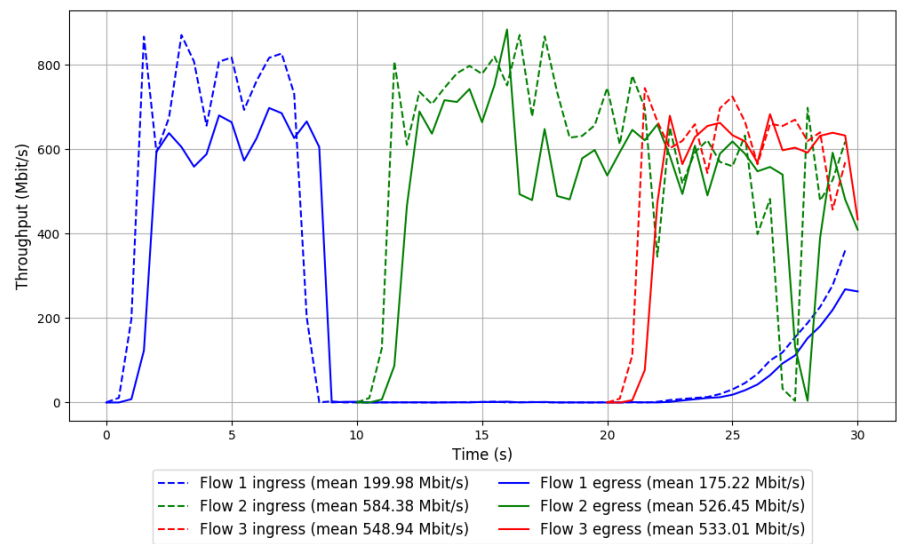
-- Flow 3:

Average throughput: 533.01 Mbit/s

95th percentile per-packet one-way delay: 357.154 ms

Loss rate: 4.60%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2018-07-10 15:02:35

End at: 2018-07-10 15:03:05

Local clock offset: -0.053 ms

Remote clock offset: 0.028 ms

Below is generated by plot.py at 2018-07-10 18:32:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 1115.10 Mbit/s

95th percentile per-packet one-way delay: 330.182 ms

Loss rate: 3.53%

-- Flow 1:

Average throughput: 575.34 Mbit/s

95th percentile per-packet one-way delay: 333.534 ms

Loss rate: 3.07%

-- Flow 2:

Average throughput: 582.72 Mbit/s

95th percentile per-packet one-way delay: 326.319 ms

Loss rate: 4.00%

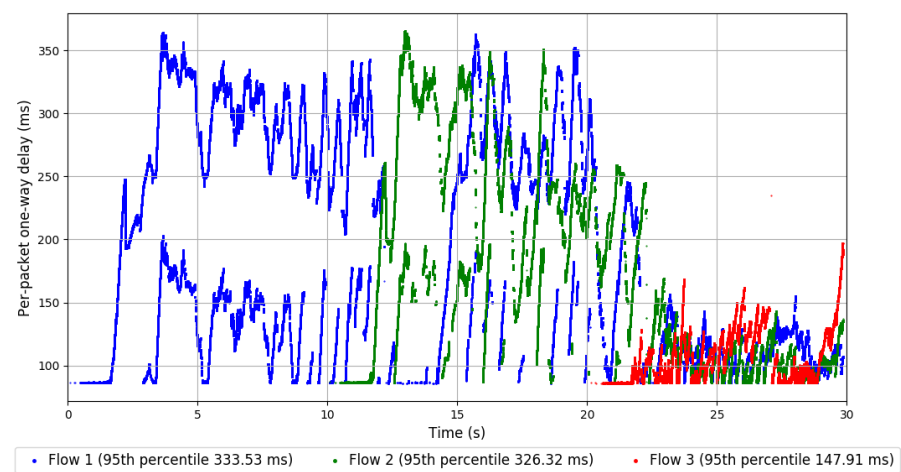
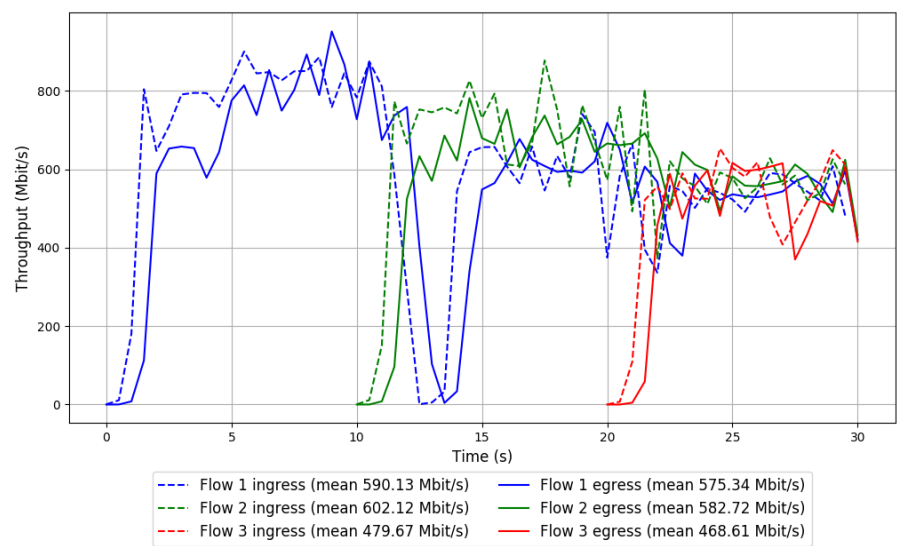
-- Flow 3:

Average throughput: 468.61 Mbit/s

95th percentile per-packet one-way delay: 147.908 ms

Loss rate: 4.02%

Run 5: Report of FillP-Sheep — Data Link



Run 6: Statistics of FillP-Sheep

Start at: 2018-07-10 15:27:15

End at: 2018-07-10 15:27:45

Local clock offset: -0.045 ms

Remote clock offset: 0.009 ms

Below is generated by plot.py at 2018-07-10 18:33:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 1169.24 Mbit/s

95th percentile per-packet one-way delay: 304.180 ms

Loss rate: 2.71%

-- Flow 1:

Average throughput: 658.59 Mbit/s

95th percentile per-packet one-way delay: 316.519 ms

Loss rate: 3.87%

-- Flow 2:

Average throughput: 555.63 Mbit/s

95th percentile per-packet one-way delay: 227.637 ms

Loss rate: 0.58%

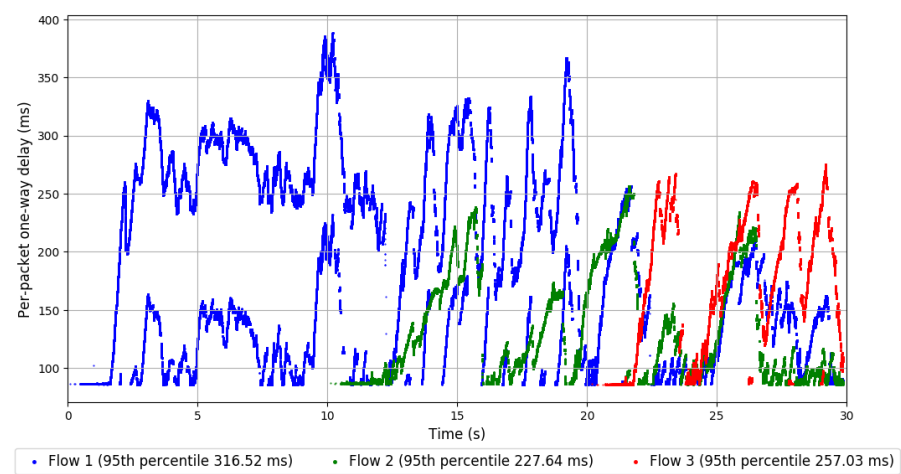
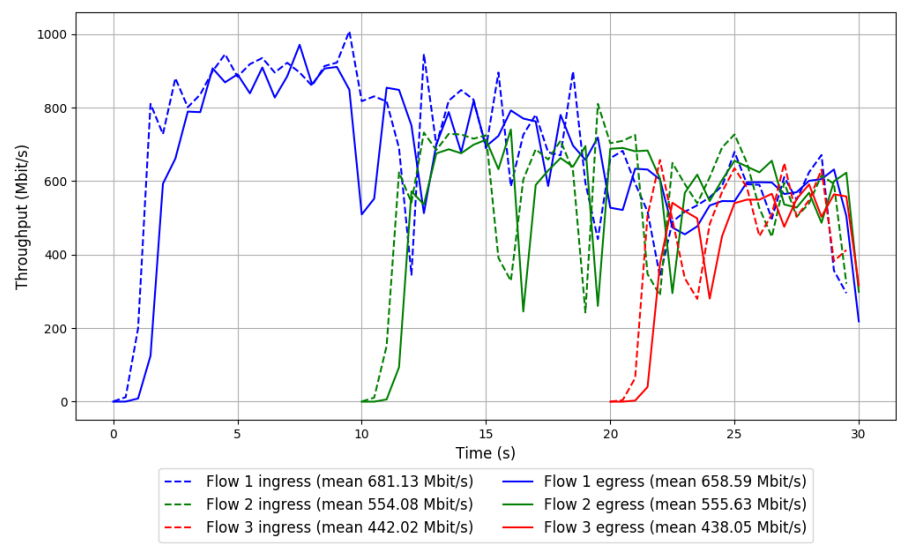
-- Flow 3:

Average throughput: 438.05 Mbit/s

95th percentile per-packet one-way delay: 257.026 ms

Loss rate: 2.64%

Run 6: Report of FillP-Sheep — Data Link



Run 7: Statistics of FillP-Sheep

Start at: 2018-07-10 15:52:00

End at: 2018-07-10 15:52:30

Local clock offset: 0.124 ms

Remote clock offset: 0.016 ms

Below is generated by plot.py at 2018-07-10 18:47:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 1156.94 Mbit/s

95th percentile per-packet one-way delay: 329.646 ms

Loss rate: 4.02%

-- Flow 1:

Average throughput: 623.67 Mbit/s

95th percentile per-packet one-way delay: 336.564 ms

Loss rate: 5.12%

-- Flow 2:

Average throughput: 573.63 Mbit/s

95th percentile per-packet one-way delay: 313.006 ms

Loss rate: 1.88%

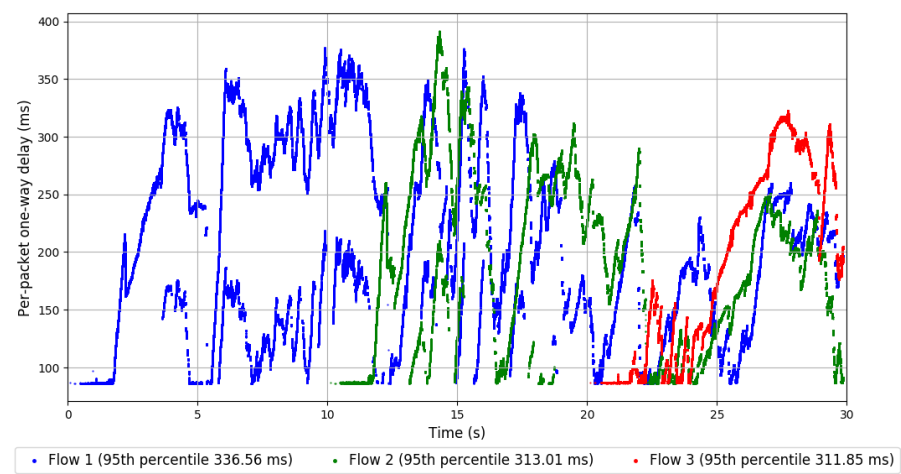
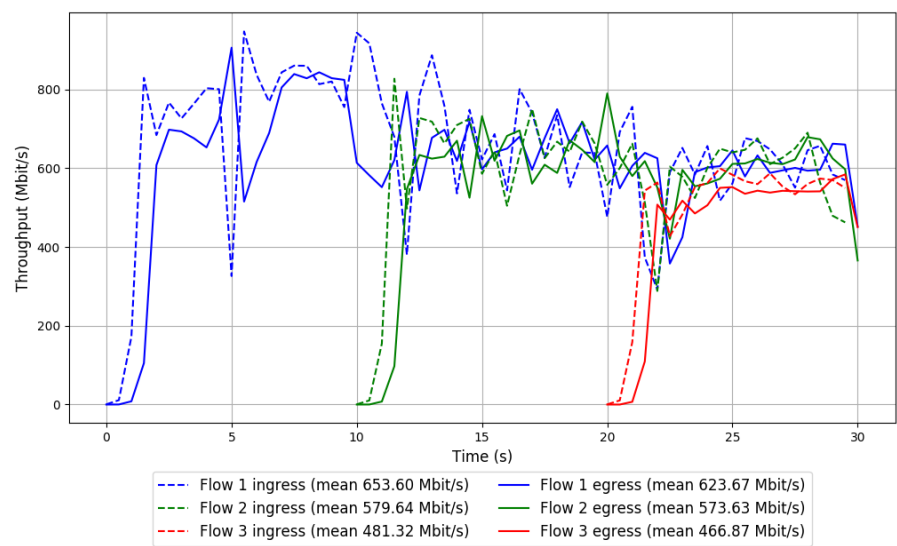
-- Flow 3:

Average throughput: 466.87 Mbit/s

95th percentile per-packet one-way delay: 311.854 ms

Loss rate: 4.66%

Run 7: Report of FillP-Sheep — Data Link



Run 8: Statistics of FillP-Sheep

Start at: 2018-07-10 16:16:36

End at: 2018-07-10 16:17:06

Local clock offset: -0.059 ms

Remote clock offset: 0.006 ms

Below is generated by plot.py at 2018-07-10 18:47:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 883.32 Mbit/s

95th percentile per-packet one-way delay: 362.882 ms

Loss rate: 5.98%

-- Flow 1:

Average throughput: 595.40 Mbit/s

95th percentile per-packet one-way delay: 364.435 ms

Loss rate: 7.11%

-- Flow 2:

Average throughput: 159.95 Mbit/s

95th percentile per-packet one-way delay: 369.418 ms

Loss rate: 3.21%

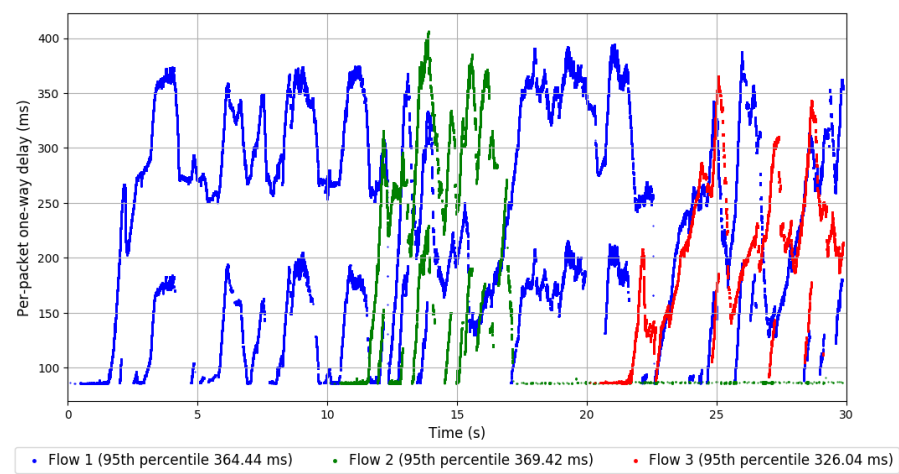
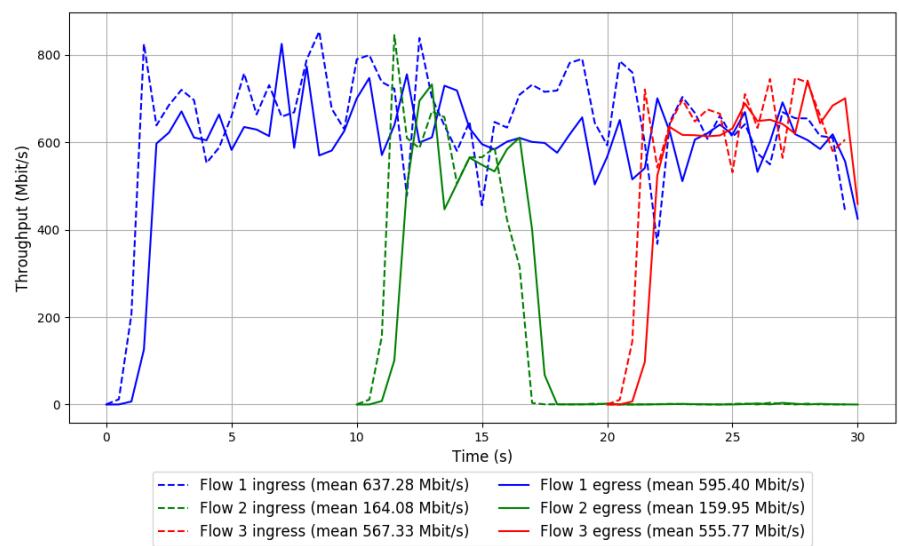
-- Flow 3:

Average throughput: 555.77 Mbit/s

95th percentile per-packet one-way delay: 326.044 ms

Loss rate: 3.76%

Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

Start at: 2018-07-10 16:41:03

End at: 2018-07-10 16:41:33

Local clock offset: -0.202 ms

Remote clock offset: 0.044 ms

Below is generated by plot.py at 2018-07-10 18:47:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 756.25 Mbit/s

95th percentile per-packet one-way delay: 356.472 ms

Loss rate: 8.71%

-- Flow 1:

Average throughput: 332.56 Mbit/s

95th percentile per-packet one-way delay: 341.692 ms

Loss rate: 7.09%

-- Flow 2:

Average throughput: 374.03 Mbit/s

95th percentile per-packet one-way delay: 378.859 ms

Loss rate: 11.56%

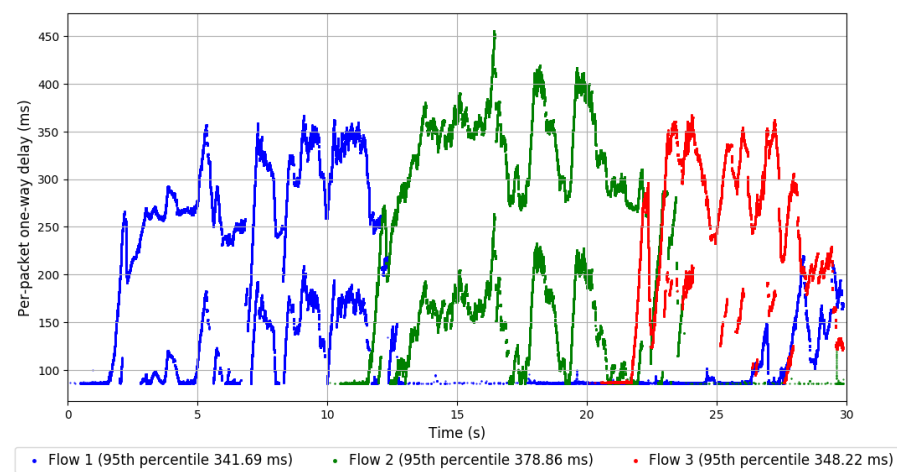
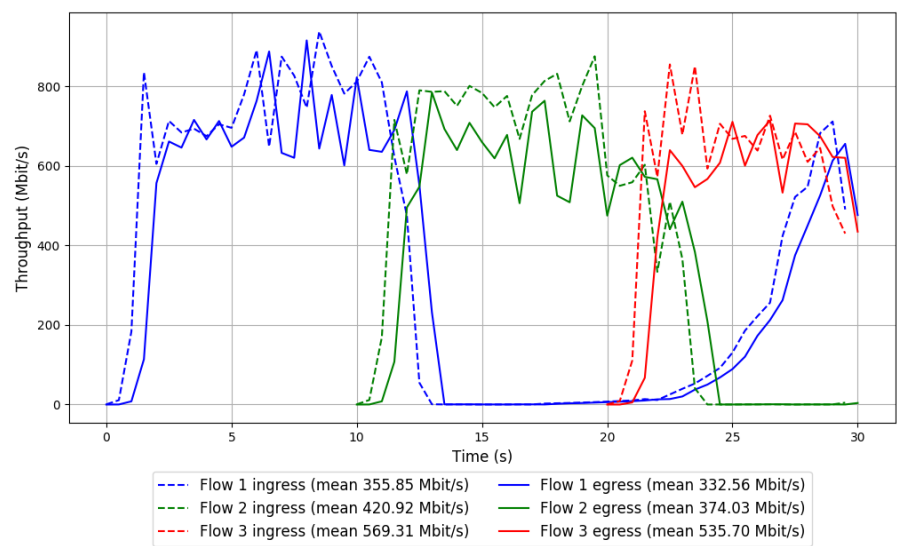
-- Flow 3:

Average throughput: 535.70 Mbit/s

95th percentile per-packet one-way delay: 348.220 ms

Loss rate: 7.55%

Run 9: Report of FillP-Sheep — Data Link

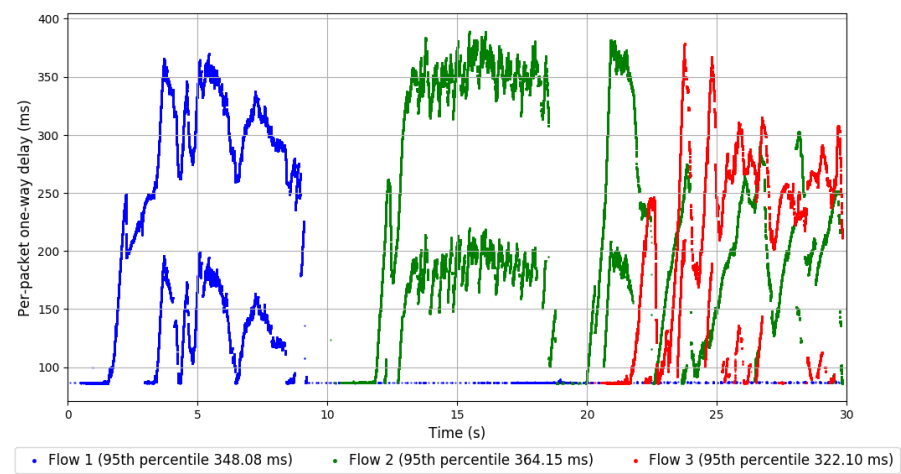
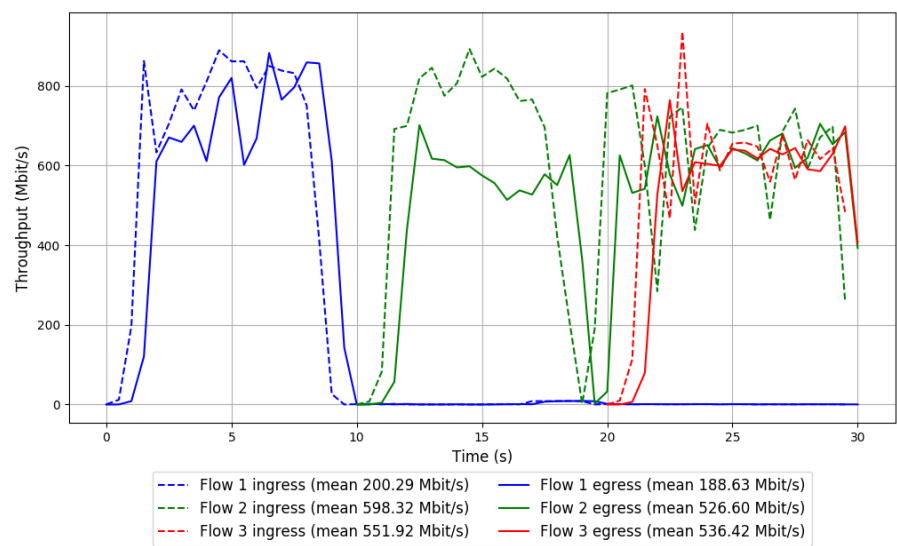


Run 10: Statistics of FillP-Sheep

Start at: 2018-07-10 17:05:22
End at: 2018-07-10 17:05:52
Local clock offset: 0.111 ms
Remote clock offset: -0.015 ms

Below is generated by plot.py at 2018-07-10 18:47:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 712.81 Mbit/s
95th percentile per-packet one-way delay: 358.071 ms
Loss rate: 9.16%
-- Flow 1:
Average throughput: 188.63 Mbit/s
95th percentile per-packet one-way delay: 348.079 ms
Loss rate: 5.96%
-- Flow 2:
Average throughput: 526.60 Mbit/s
95th percentile per-packet one-way delay: 364.155 ms
Loss rate: 12.90%
-- Flow 3:
Average throughput: 536.42 Mbit/s
95th percentile per-packet one-way delay: 322.103 ms
Loss rate: 4.51%

Run 10: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2018-07-10 13:20:11

End at: 2018-07-10 13:20:41

Local clock offset: 0.055 ms

Remote clock offset: 0.018 ms

Below is generated by plot.py at 2018-07-10 18:47:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 255.59 Mbit/s

95th percentile per-packet one-way delay: 143.690 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 136.78 Mbit/s

95th percentile per-packet one-way delay: 129.010 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 138.94 Mbit/s

95th percentile per-packet one-way delay: 144.463 ms

Loss rate: 1.01%

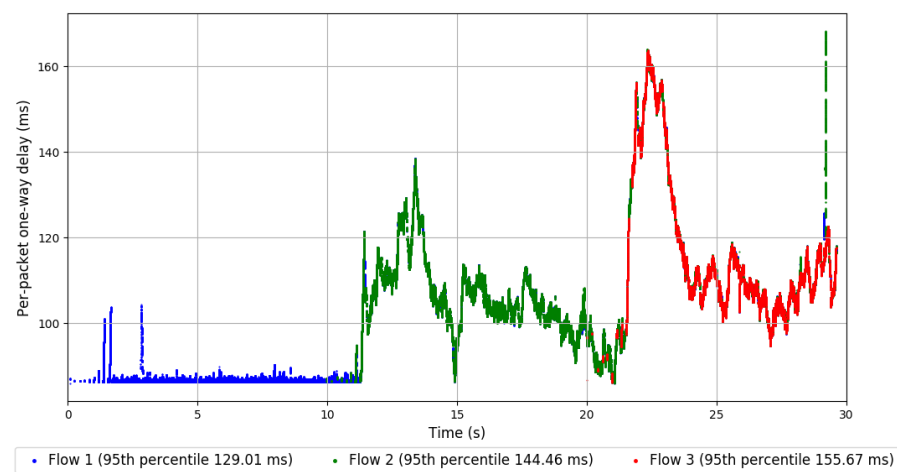
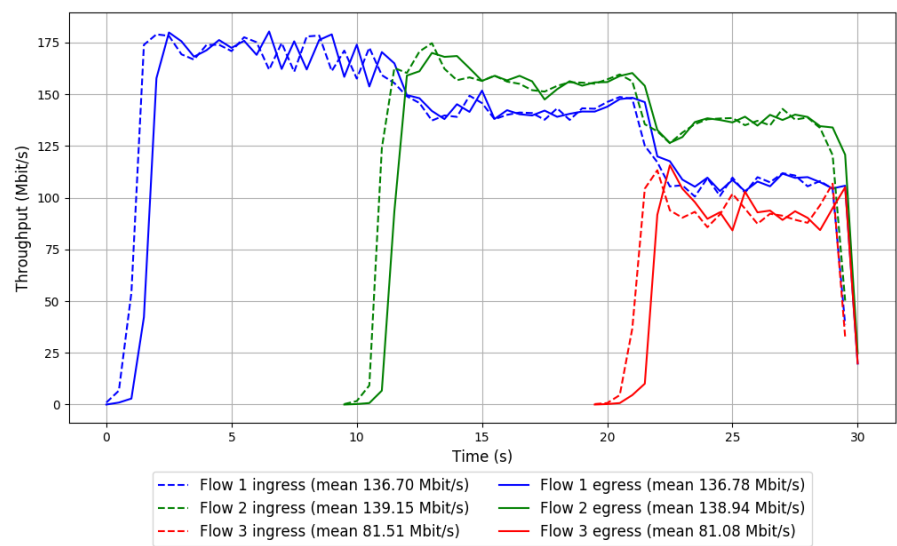
-- Flow 3:

Average throughput: 81.08 Mbit/s

95th percentile per-packet one-way delay: 155.668 ms

Loss rate: 2.29%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-07-10 13:44:16

End at: 2018-07-10 13:44:46

Local clock offset: -0.225 ms

Remote clock offset: 0.015 ms

Below is generated by plot.py at 2018-07-10 18:47:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 249.44 Mbit/s

95th percentile per-packet one-way delay: 113.493 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 153.63 Mbit/s

95th percentile per-packet one-way delay: 112.867 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 127.43 Mbit/s

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

Loss rate: 0.97%

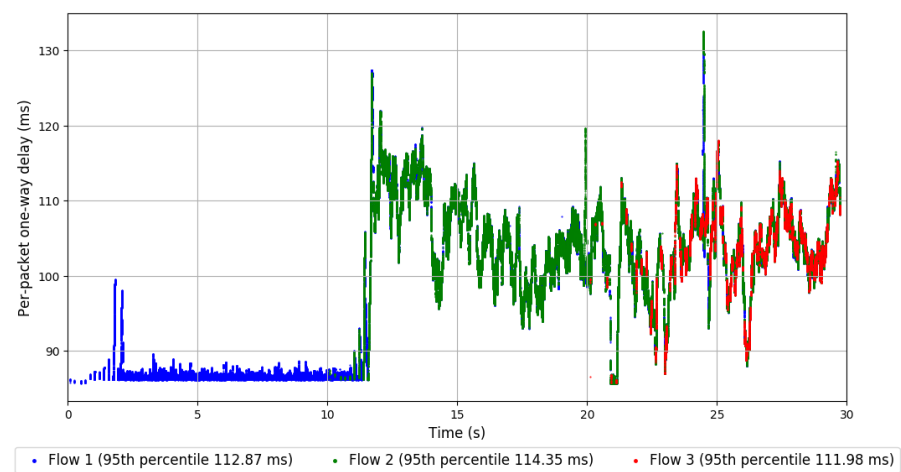
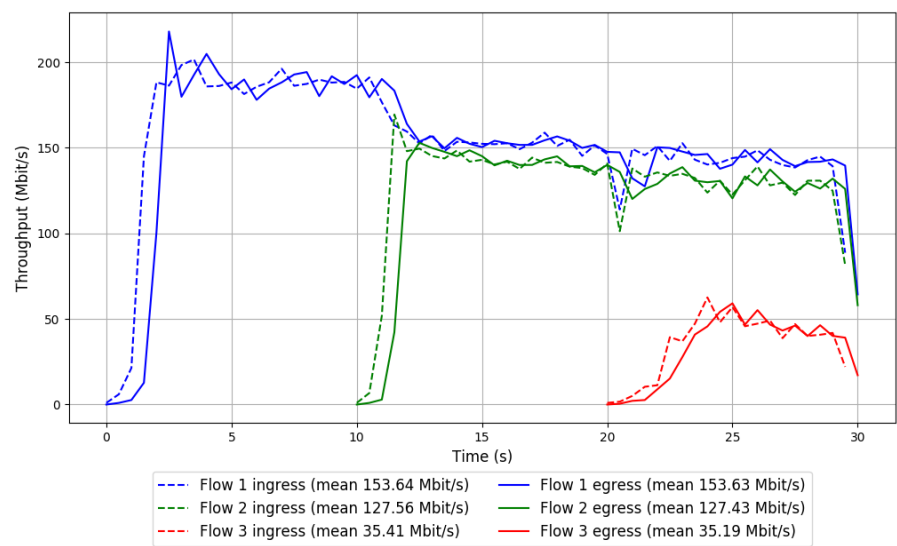
-- Flow 3:

Average throughput: 35.19 Mbit/s

95th percentile per-packet one-way delay: 111.985 ms

Loss rate: 2.25%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-07-10 14:08:51

End at: 2018-07-10 14:09:21

Local clock offset: 0.027 ms

Remote clock offset: 0.041 ms

Below is generated by plot.py at 2018-07-10 18:47:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 243.44 Mbit/s

95th percentile per-packet one-way delay: 150.047 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 133.77 Mbit/s

95th percentile per-packet one-way delay: 146.227 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 127.98 Mbit/s

95th percentile per-packet one-way delay: 150.545 ms

Loss rate: 0.83%

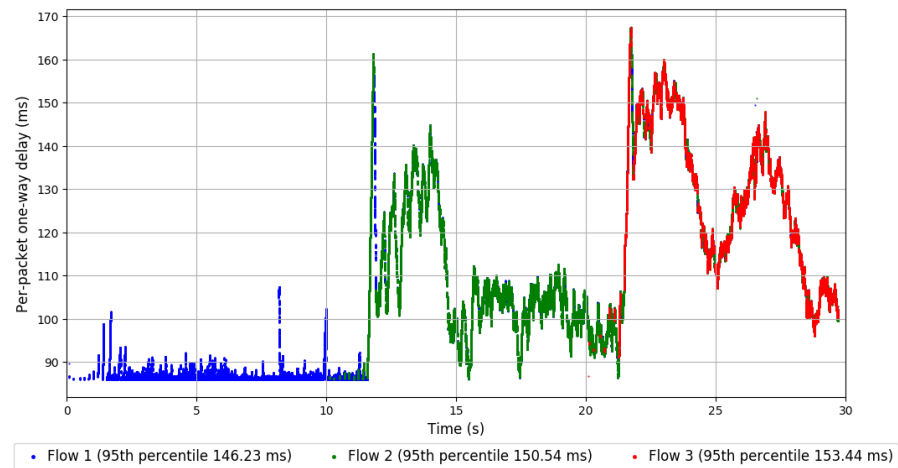
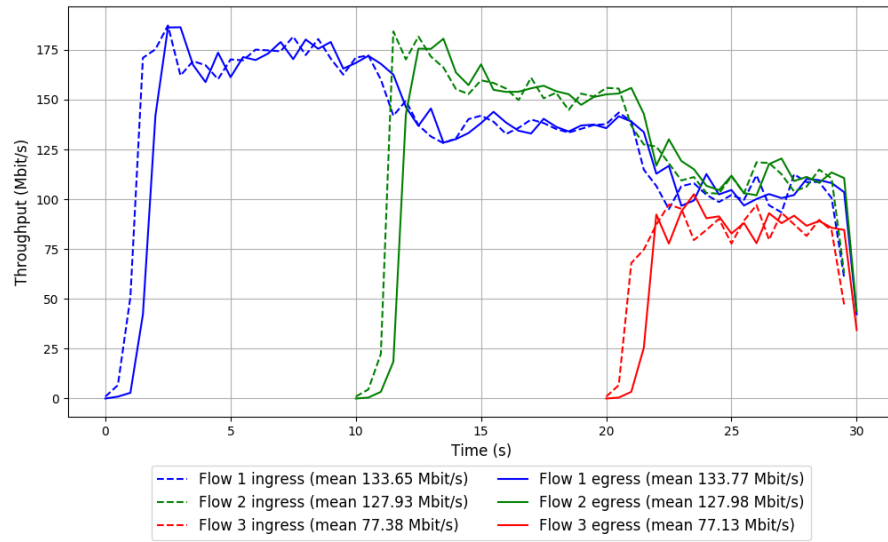
-- Flow 3:

Average throughput: 77.13 Mbit/s

95th percentile per-packet one-way delay: 153.440 ms

Loss rate: 2.09%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-07-10 14:33:36

End at: 2018-07-10 14:34:06

Local clock offset: 0.006 ms

Remote clock offset: 0.062 ms

Below is generated by plot.py at 2018-07-10 18:47:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 250.60 Mbit/s

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

Loss rate: 0.78%

-- Flow 1:

Average throughput: 152.47 Mbit/s

95th percentile per-packet one-way delay: 110.761 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 131.55 Mbit/s

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

Loss rate: 0.97%

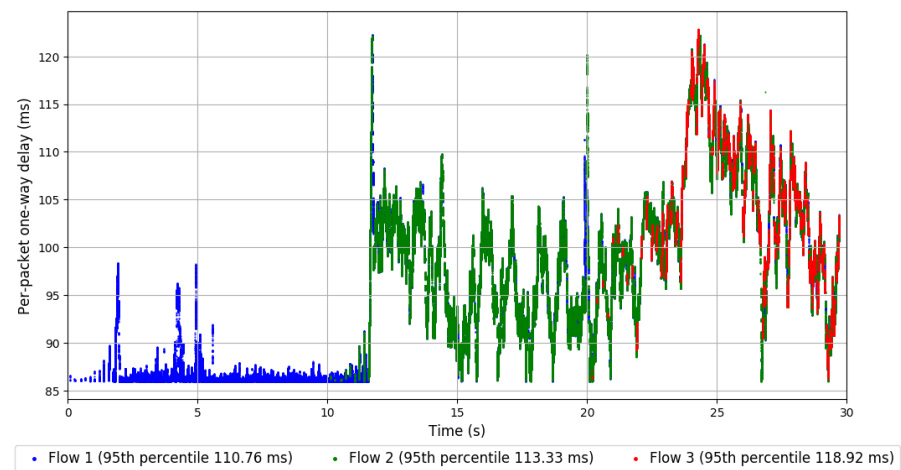
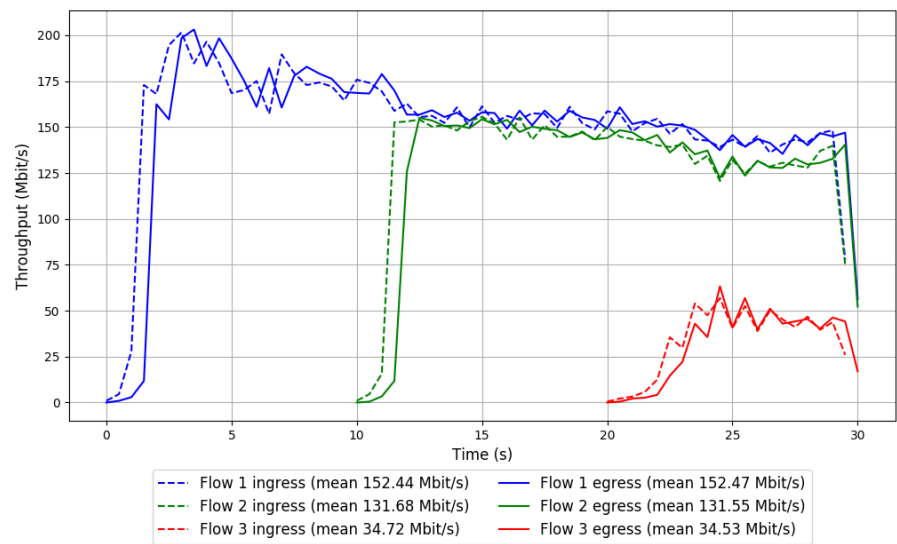
-- Flow 3:

Average throughput: 34.53 Mbit/s

95th percentile per-packet one-way delay: 118.924 ms

Loss rate: 2.32%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-07-10 14:58:06

End at: 2018-07-10 14:58:36

Local clock offset: 0.128 ms

Remote clock offset: 0.031 ms

Below is generated by plot.py at 2018-07-10 18:47:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 253.26 Mbit/s

95th percentile per-packet one-way delay: 137.635 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 154.32 Mbit/s

95th percentile per-packet one-way delay: 133.274 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 117.06 Mbit/s

95th percentile per-packet one-way delay: 138.528 ms

Loss rate: 0.95%

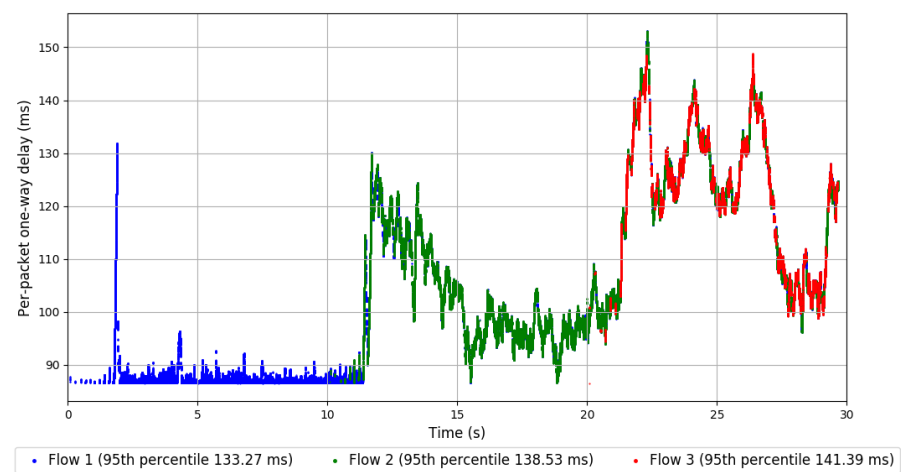
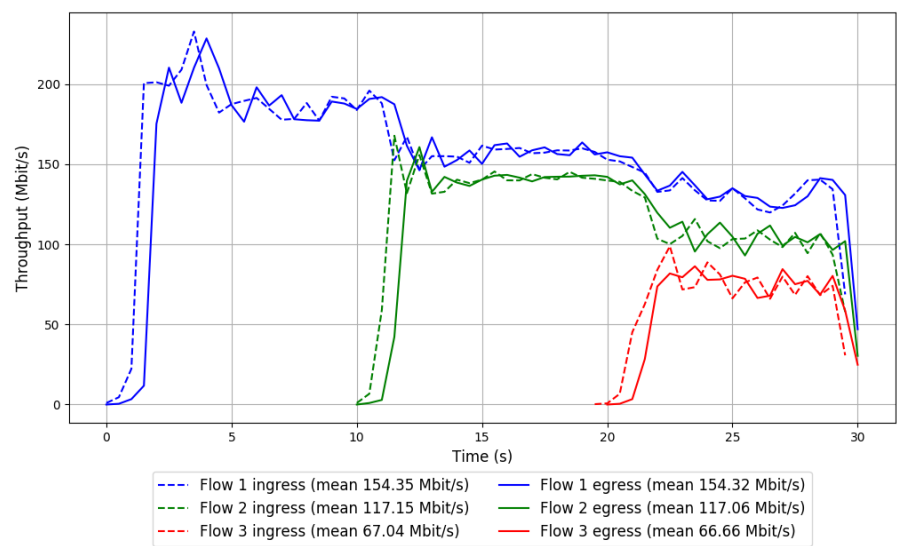
-- Flow 3:

Average throughput: 66.66 Mbit/s

95th percentile per-packet one-way delay: 141.392 ms

Loss rate: 2.36%

Run 5: Report of Indigo — Data Link

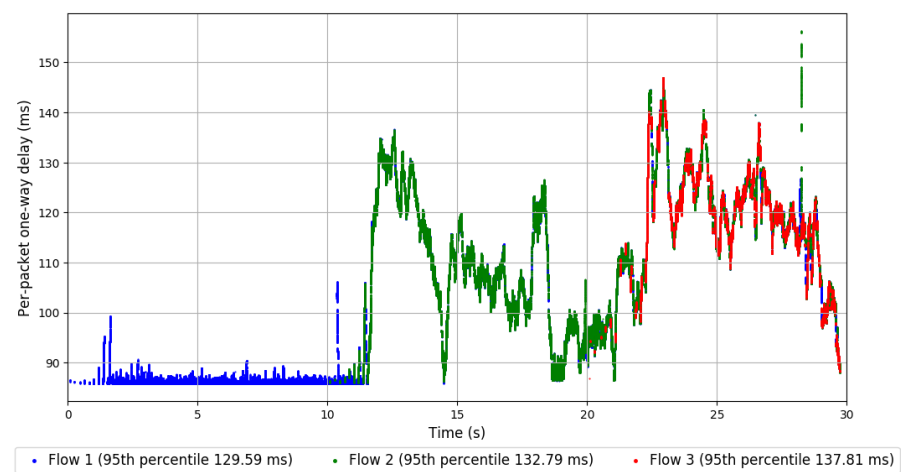
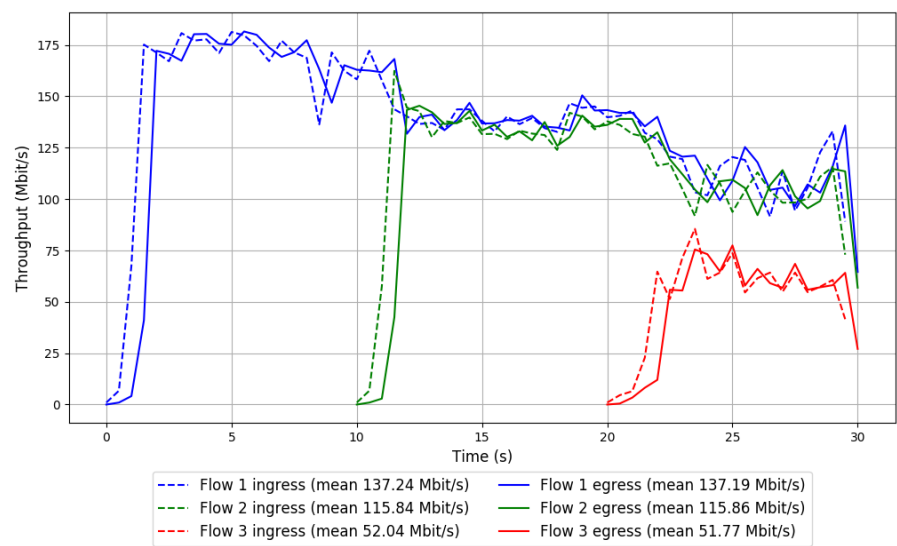


Run 6: Statistics of Indigo

Start at: 2018-07-10 15:22:49
End at: 2018-07-10 15:23:19
Local clock offset: -0.078 ms
Remote clock offset: -0.008 ms

Below is generated by plot.py at 2018-07-10 18:47:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 230.75 Mbit/s
95th percentile per-packet one-way delay: 131.594 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 137.19 Mbit/s
95th percentile per-packet one-way delay: 129.591 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 115.86 Mbit/s
95th percentile per-packet one-way delay: 132.789 ms
Loss rate: 0.86%
-- Flow 3:
Average throughput: 51.77 Mbit/s
95th percentile per-packet one-way delay: 137.807 ms
Loss rate: 2.32%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-07-10 15:47:37

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

Local clock offset: 0.051 ms

Remote clock offset: 0.044 ms

Below is generated by plot.py at 2018-07-10 18:47:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 252.63 Mbit/s

95th percentile per-packet one-way delay: 143.613 ms

Loss rate: 0.98%

-- Flow 1:

Average throughput: 143.36 Mbit/s

95th percentile per-packet one-way delay: 134.980 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 121.31 Mbit/s

95th percentile per-packet one-way delay: 142.862 ms

Loss rate: 0.95%

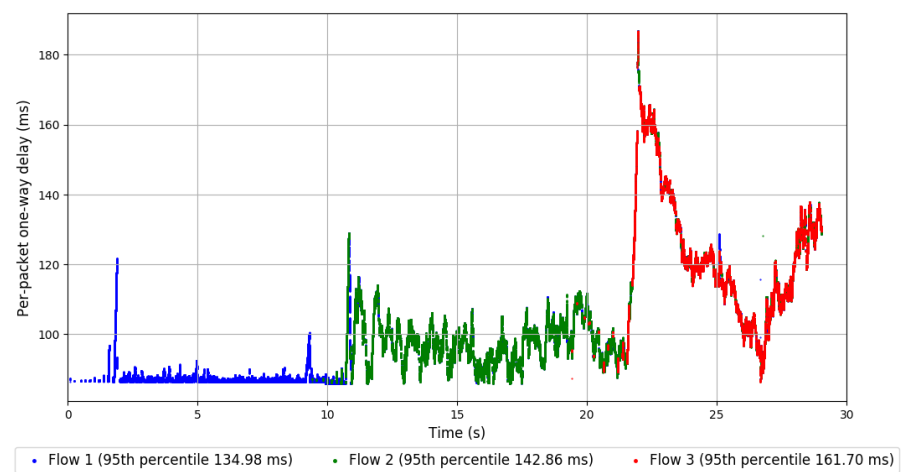
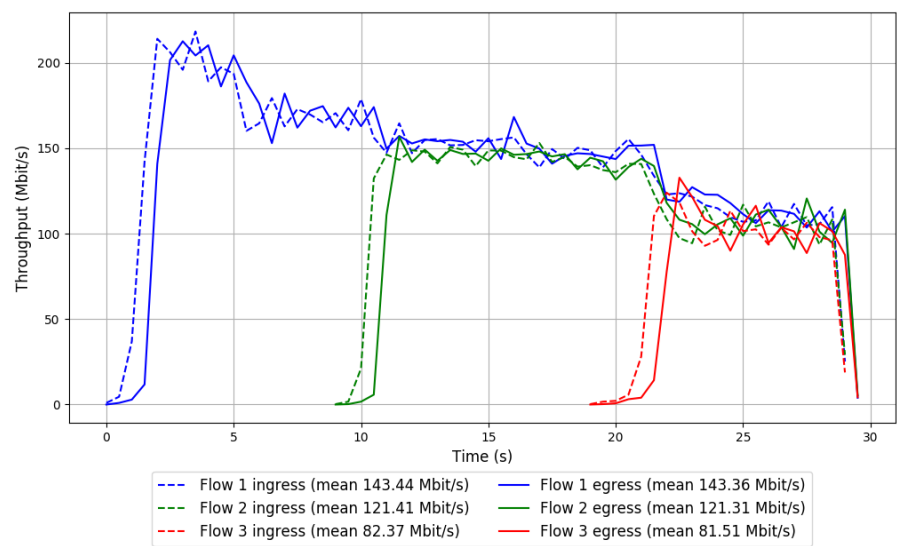
-- Flow 3:

Average throughput: 81.51 Mbit/s

95th percentile per-packet one-way delay: 161.700 ms

Loss rate: 2.80%

Run 7: Report of Indigo — Data Link

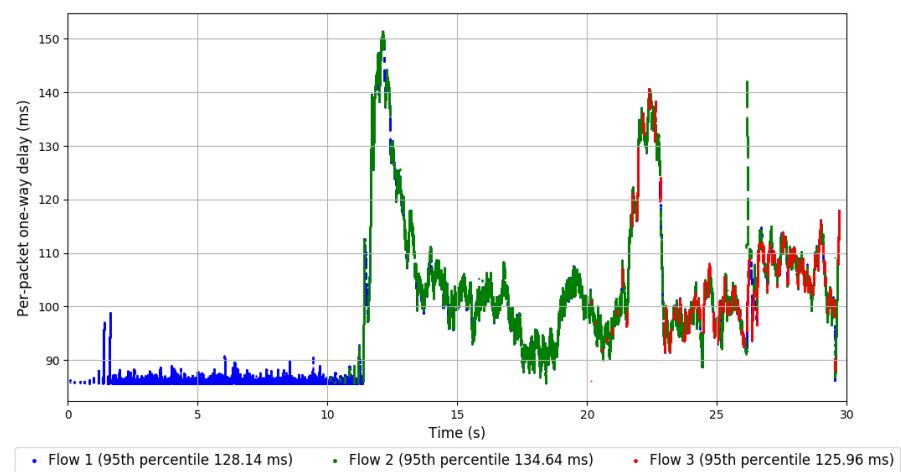
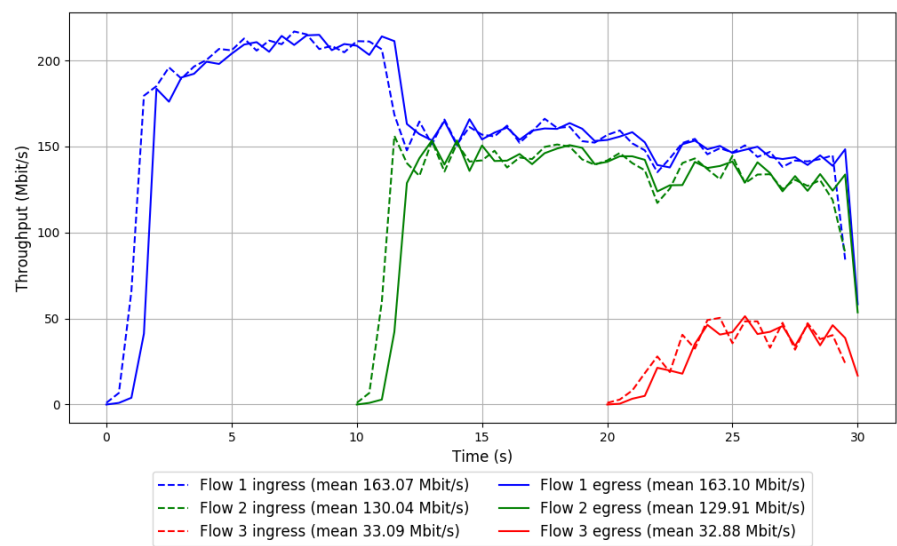


Run 8: Statistics of Indigo

Start at: 2018-07-10 16:12:11
End at: 2018-07-10 16:12:41
Local clock offset: -0.195 ms
Remote clock offset: 0.036 ms

Below is generated by plot.py at 2018-07-10 18:47:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 259.70 Mbit/s
95th percentile per-packet one-way delay: 131.035 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 163.10 Mbit/s
95th percentile per-packet one-way delay: 128.136 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 129.91 Mbit/s
95th percentile per-packet one-way delay: 134.639 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 32.88 Mbit/s
95th percentile per-packet one-way delay: 125.961 ms
Loss rate: 2.33%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-07-10 16:36:42

End at: 2018-07-10 16:37:12

Local clock offset: 0.093 ms

Remote clock offset: 0.046 ms

Below is generated by plot.py at 2018-07-10 18:47:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 236.47 Mbit/s

95th percentile per-packet one-way delay: 137.253 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 136.03 Mbit/s

95th percentile per-packet one-way delay: 130.603 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 124.26 Mbit/s

95th percentile per-packet one-way delay: 138.806 ms

Loss rate: 0.82%

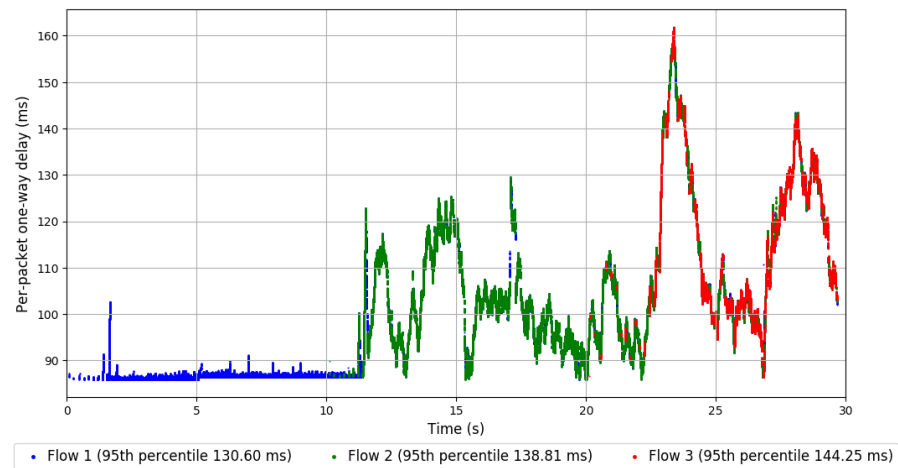
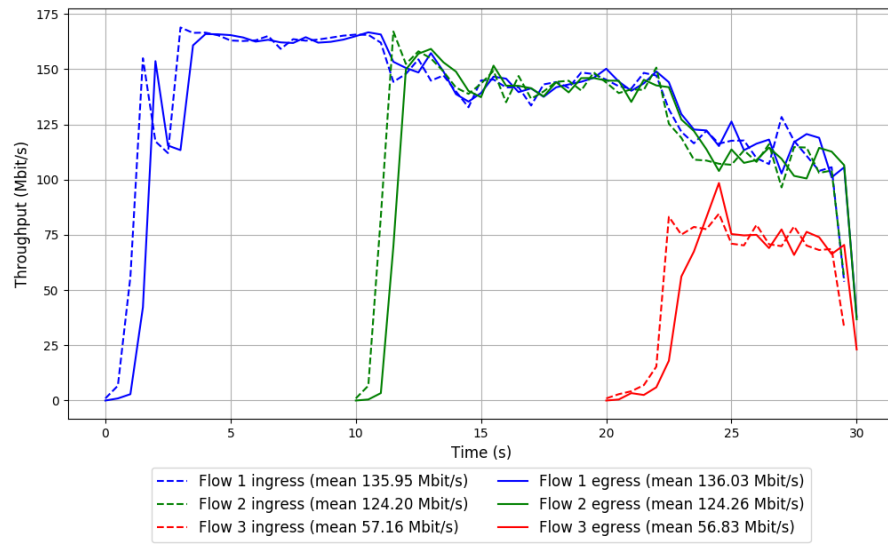
-- Flow 3:

Average throughput: 56.83 Mbit/s

95th percentile per-packet one-way delay: 144.248 ms

Loss rate: 2.38%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-07-10 17:00:58

End at: 2018-07-10 17:01:28

Local clock offset: 0.112 ms

Remote clock offset: 0.036 ms

Below is generated by plot.py at 2018-07-10 18:47:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 232.13 Mbit/s

95th percentile per-packet one-way delay: 168.766 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 125.36 Mbit/s

95th percentile per-packet one-way delay: 154.875 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 122.59 Mbit/s

95th percentile per-packet one-way delay: 168.698 ms

Loss rate: 0.88%

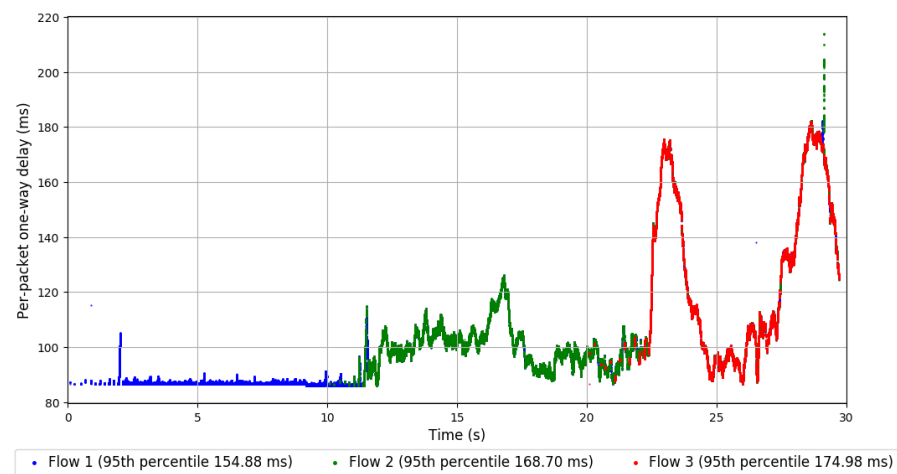
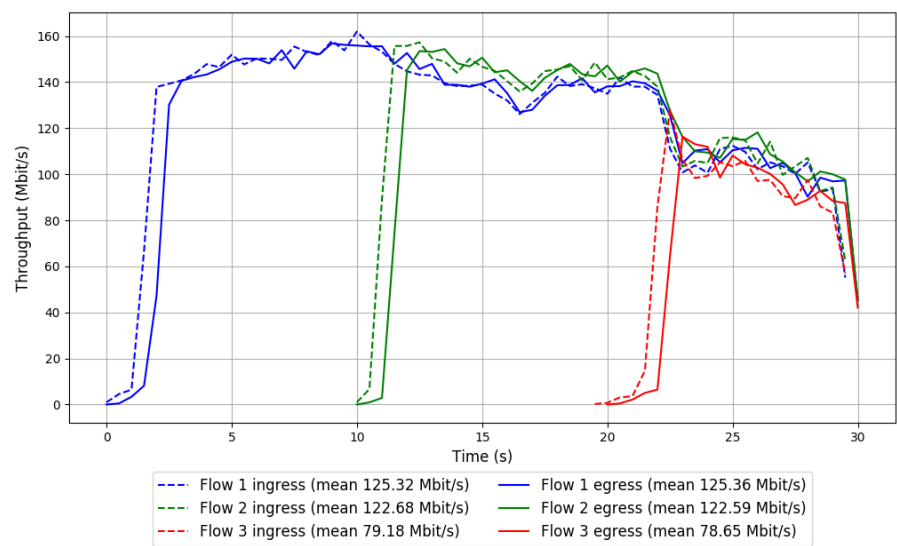
-- Flow 3:

Average throughput: 78.65 Mbit/s

95th percentile per-packet one-way delay: 174.978 ms

Loss rate: 2.43%

Run 10: Report of Indigo — Data Link

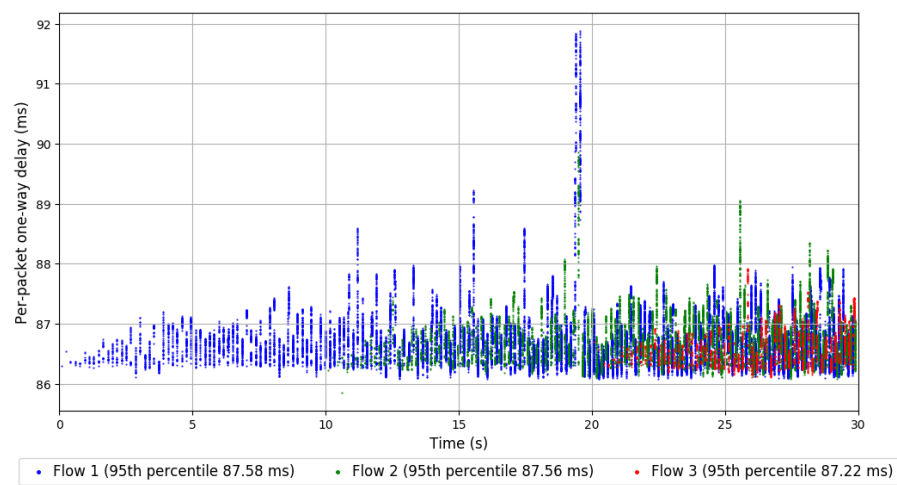
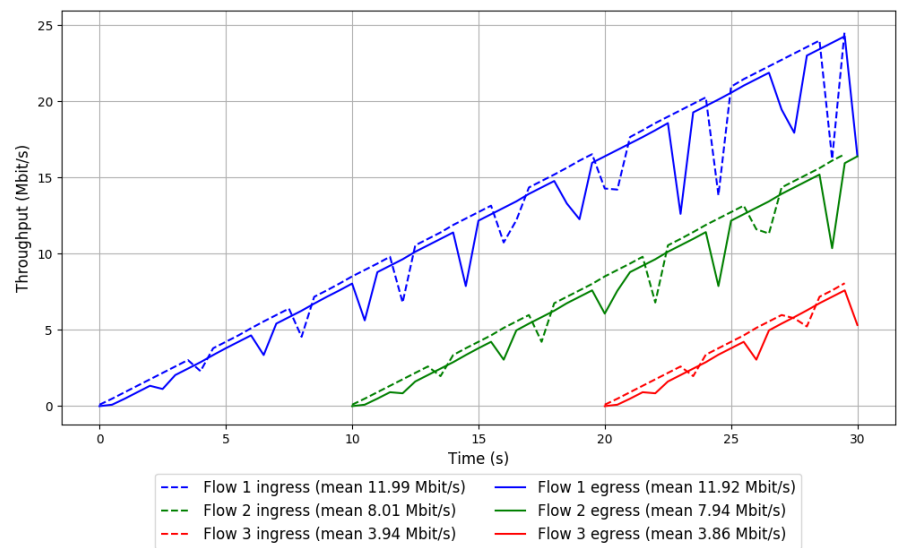


```
Run 1: Statistics of LEDBAT

Start at: 2018-07-10 13:30:41
End at: 2018-07-10 13:31:11
Local clock offset: -0.215 ms
Remote clock offset: 0.023 ms

# Below is generated by plot.py at 2018-07-10 18:47:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.41 Mbit/s
95th percentile per-packet one-way delay: 87.542 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 11.92 Mbit/s
95th percentile per-packet one-way delay: 87.581 ms
Loss rate: 1.16%
-- Flow 2:
Average throughput: 7.94 Mbit/s
95th percentile per-packet one-way delay: 87.556 ms
Loss rate: 1.74%
-- Flow 3:
Average throughput: 3.86 Mbit/s
95th percentile per-packet one-way delay: 87.223 ms
Loss rate: 3.52%
```


Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-07-10 13:54:59

End at: 2018-07-10 13:55:29

Local clock offset: -0.018 ms

Remote clock offset: 0.012 ms

Below is generated by plot.py at 2018-07-10 18:47:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.04 Mbit/s

95th percentile per-packet one-way delay: 87.798 ms

Loss rate: 1.50%

-- Flow 1:

Average throughput: 11.53 Mbit/s

95th percentile per-packet one-way delay: 87.984 ms

Loss rate: 1.17%

-- Flow 2:

Average throughput: 7.95 Mbit/s

95th percentile per-packet one-way delay: 87.622 ms

Loss rate: 1.74%

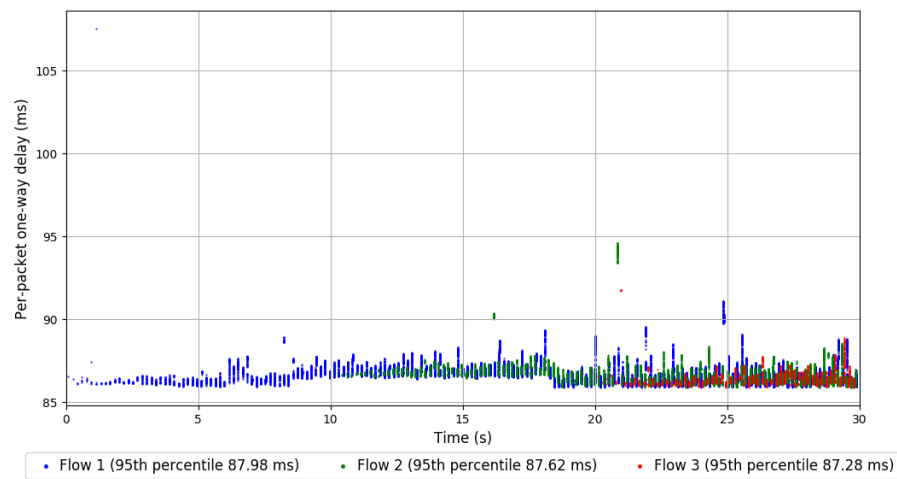
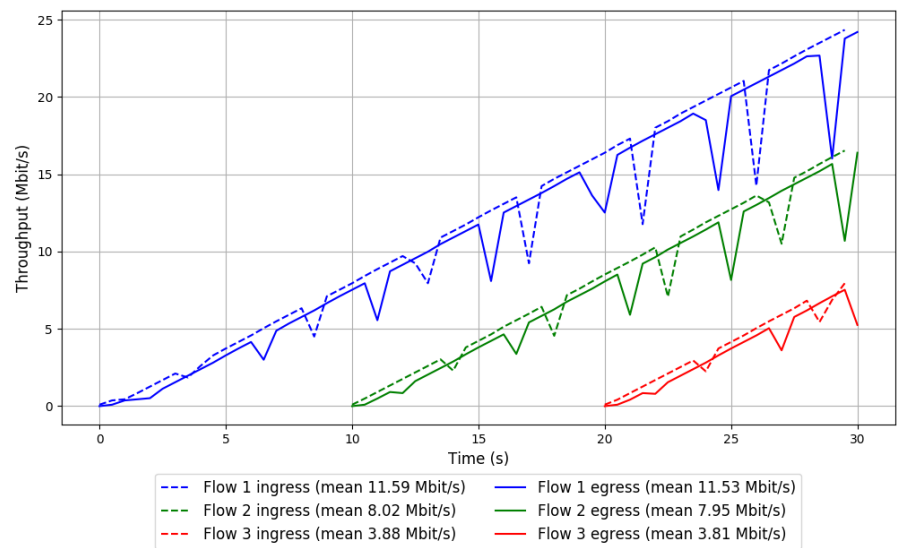
-- Flow 3:

Average throughput: 3.81 Mbit/s

95th percentile per-packet one-way delay: 87.285 ms

Loss rate: 3.53%

Run 2: Report of LEDBAT — Data Link

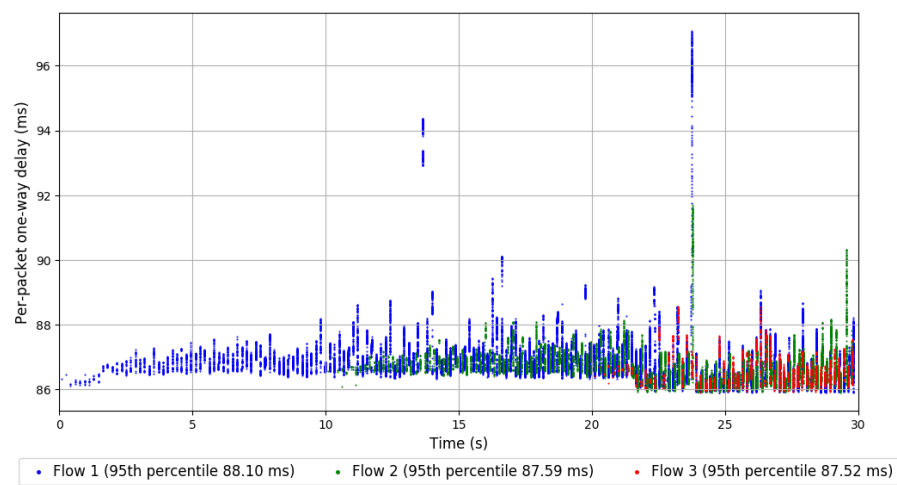
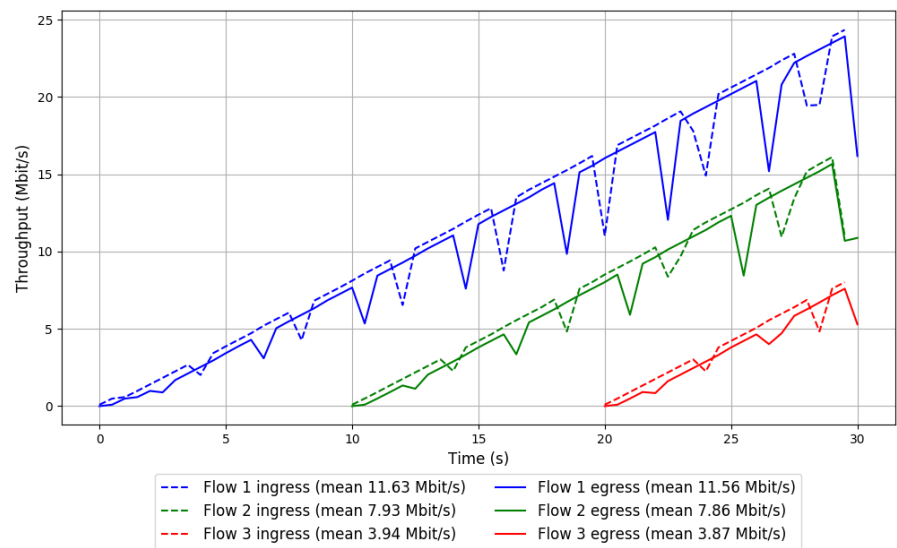


Run 3: Statistics of LEDBAT

Start at: 2018-07-10 14:19:46
End at: 2018-07-10 14:20:16
Local clock offset: -0.1 ms
Remote clock offset: -0.001 ms

Below is generated by plot.py at 2018-07-10 18:47:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 18.02 Mbit/s
95th percentile per-packet one-way delay: 87.918 ms
Loss rate: 1.51%
-- Flow 1:
Average throughput: 11.56 Mbit/s
95th percentile per-packet one-way delay: 88.098 ms
Loss rate: 1.17%
-- Flow 2:
Average throughput: 7.86 Mbit/s
95th percentile per-packet one-way delay: 87.594 ms
Loss rate: 1.75%
-- Flow 3:
Average throughput: 3.87 Mbit/s
95th percentile per-packet one-way delay: 87.517 ms
Loss rate: 3.50%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-07-10 14:44:17

End at: 2018-07-10 14:44:47

Local clock offset: 0.169 ms

Remote clock offset: 0.033 ms

Below is generated by plot.py at 2018-07-10 18:47:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.58 Mbit/s

95th percentile per-packet one-way delay: 88.909 ms

Loss rate: 1.58%

-- Flow 1:

Average throughput: 10.05 Mbit/s

95th percentile per-packet one-way delay: 88.985 ms

Loss rate: 1.26%

-- Flow 2:

Average throughput: 7.94 Mbit/s

95th percentile per-packet one-way delay: 89.240 ms

Loss rate: 1.74%

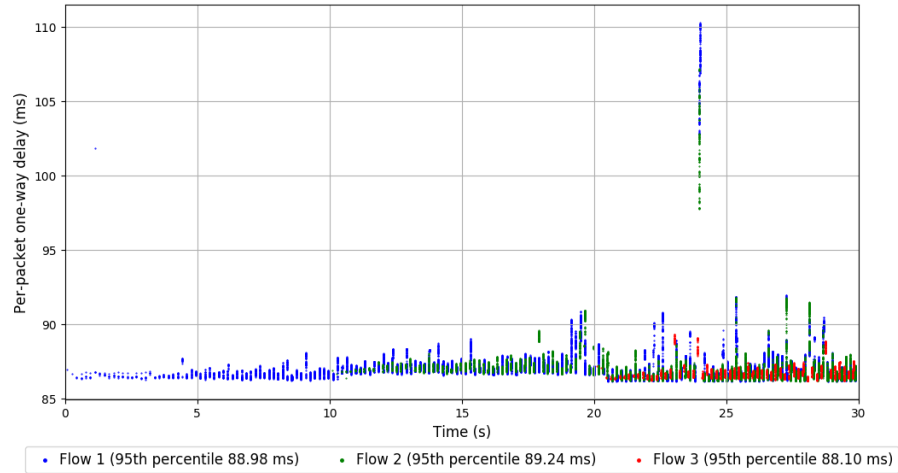
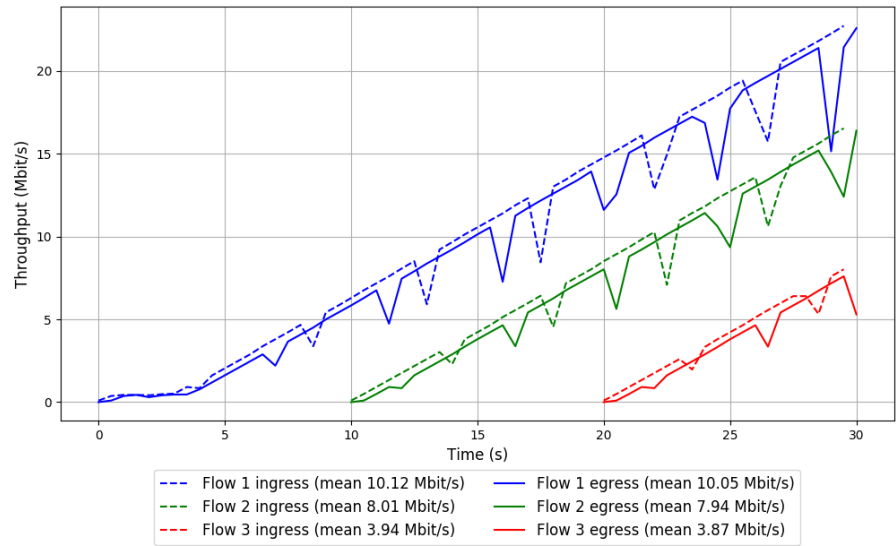
-- Flow 3:

Average throughput: 3.87 Mbit/s

95th percentile per-packet one-way delay: 88.101 ms

Loss rate: 3.50%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-07-10 15:09:05

End at: 2018-07-10 15:09:35

Local clock offset: 0.129 ms

Remote clock offset: 0.003 ms

Below is generated by plot.py at 2018-07-10 18:47:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.04 Mbit/s

95th percentile per-packet one-way delay: 88.193 ms

Loss rate: 1.47%

-- Flow 1:

Average throughput: 11.92 Mbit/s

95th percentile per-packet one-way delay: 88.318 ms

Loss rate: 1.16%

-- Flow 2:

Average throughput: 7.95 Mbit/s

95th percentile per-packet one-way delay: 88.094 ms

Loss rate: 1.73%

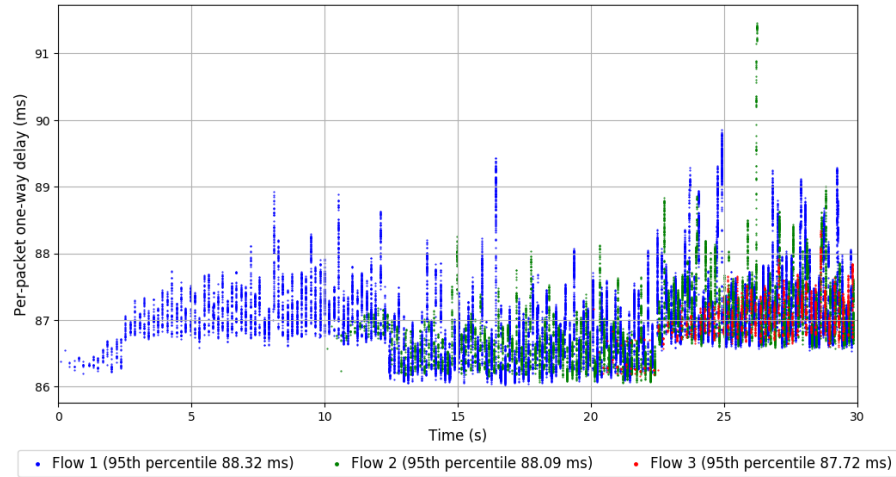
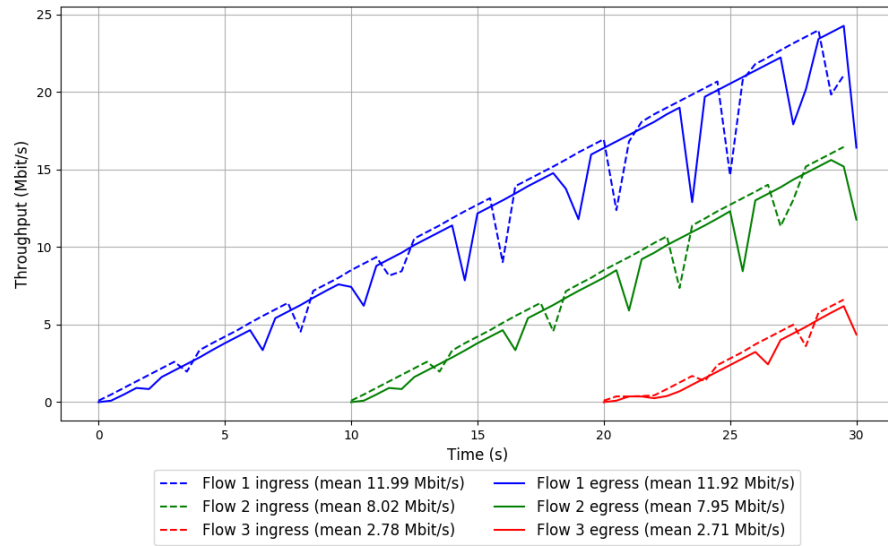
-- Flow 3:

Average throughput: 2.71 Mbit/s

95th percentile per-packet one-way delay: 87.720 ms

Loss rate: 4.10%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-07-10 15:33:51

End at: 2018-07-10 15:34:21

Local clock offset: 0.031 ms

Remote clock offset: 0.044 ms

Below is generated by plot.py at 2018-07-10 18:47:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.17 Mbit/s

95th percentile per-packet one-way delay: 88.114 ms

Loss rate: 1.50%

-- Flow 1:

Average throughput: 11.92 Mbit/s

95th percentile per-packet one-way delay: 88.188 ms

Loss rate: 1.16%

-- Flow 2:

Average throughput: 7.61 Mbit/s

95th percentile per-packet one-way delay: 88.159 ms

Loss rate: 1.78%

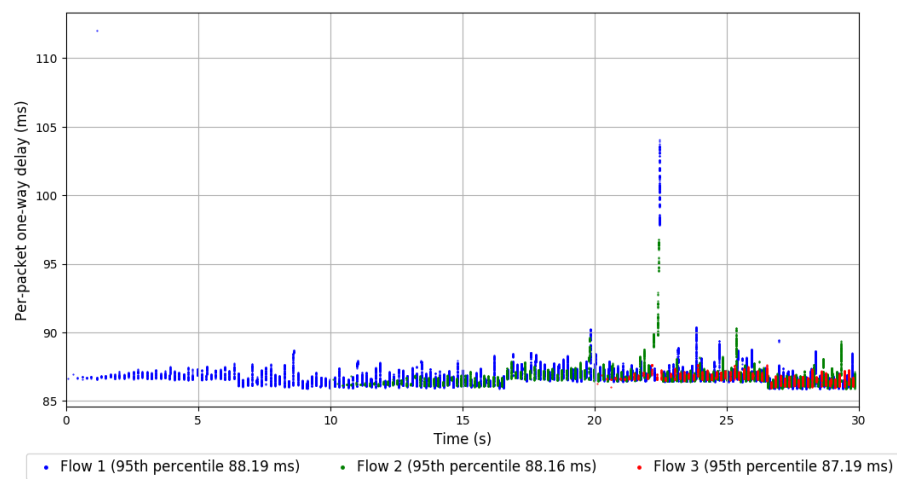
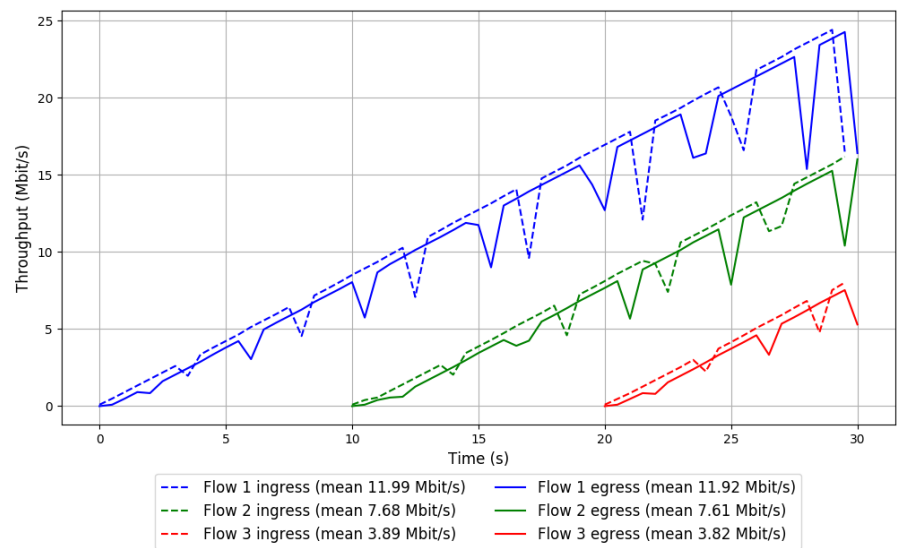
-- Flow 3:

Average throughput: 3.82 Mbit/s

95th percentile per-packet one-way delay: 87.185 ms

Loss rate: 3.55%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-07-10 15:58:25

End at: 2018-07-10 15:58:55

Local clock offset: 0.072 ms

Remote clock offset: 0.046 ms

Below is generated by plot.py at 2018-07-10 18:47:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.14 Mbit/s

95th percentile per-packet one-way delay: 88.912 ms

Loss rate: 1.49%

-- Flow 1:

Average throughput: 11.76 Mbit/s

95th percentile per-packet one-way delay: 89.299 ms

Loss rate: 1.16%

-- Flow 2:

Average throughput: 7.96 Mbit/s

95th percentile per-packet one-way delay: 88.285 ms

Loss rate: 1.74%

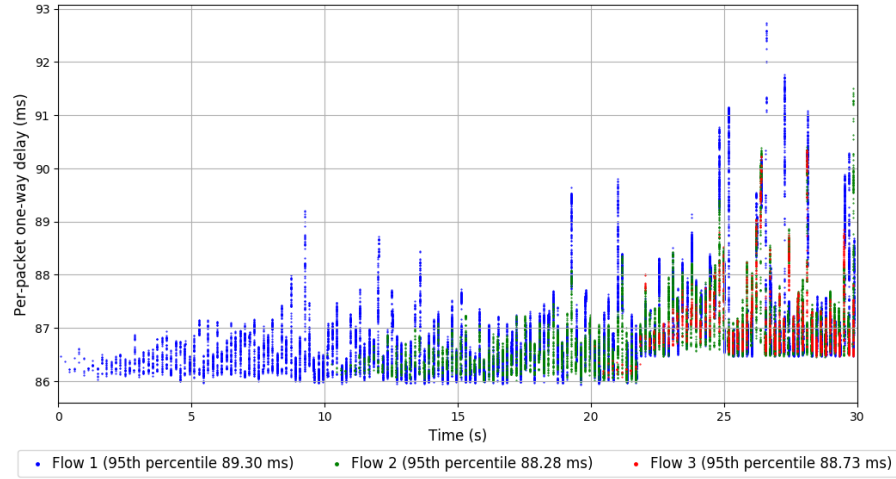
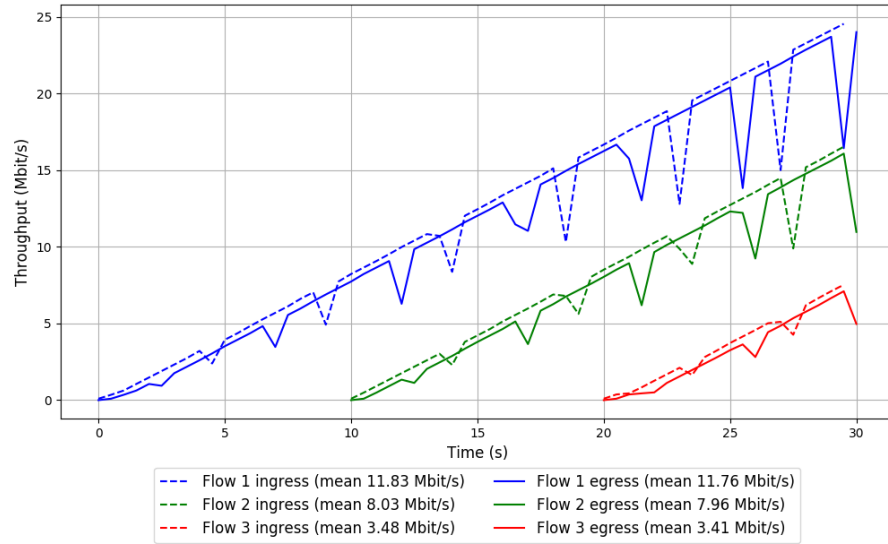
-- Flow 3:

Average throughput: 3.41 Mbit/s

95th percentile per-packet one-way delay: 88.730 ms

Loss rate: 3.71%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-07-10 16:22:53

End at: 2018-07-10 16:23:23

Local clock offset: 0.177 ms

Remote clock offset: 0.019 ms

Below is generated by plot.py at 2018-07-10 18:47:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.44 Mbit/s

95th percentile per-packet one-way delay: 88.219 ms

Loss rate: 1.49%

-- Flow 1:

Average throughput: 11.94 Mbit/s

95th percentile per-packet one-way delay: 88.249 ms

Loss rate: 1.16%

-- Flow 2:

Average throughput: 7.95 Mbit/s

95th percentile per-packet one-way delay: 88.236 ms

Loss rate: 1.74%

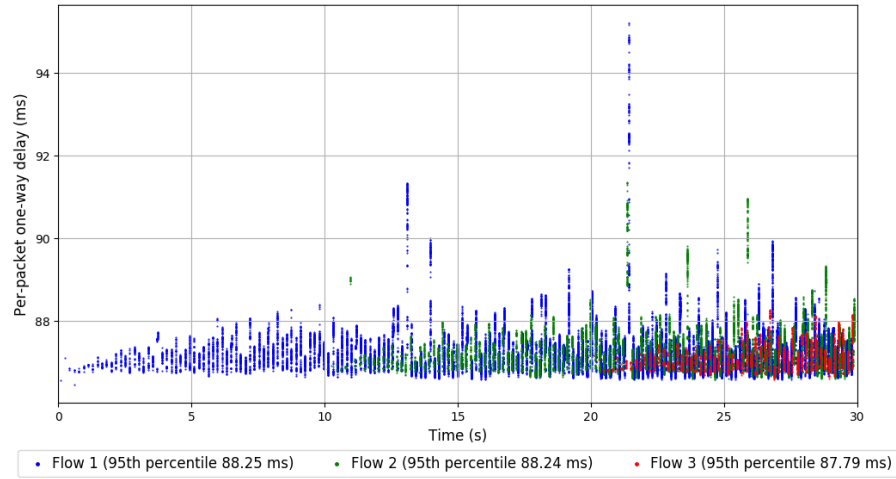
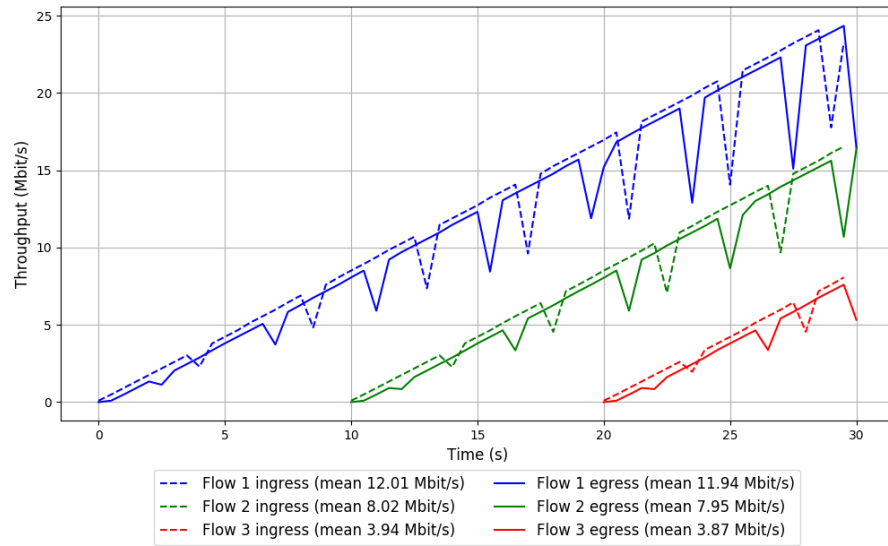
-- Flow 3:

Average throughput: 3.87 Mbit/s

95th percentile per-packet one-way delay: 87.789 ms

Loss rate: 3.52%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-07-10 16:47:17

End at: 2018-07-10 16:47:47

Local clock offset: -0.026 ms

Remote clock offset: 0.027 ms

Below is generated by plot.py at 2018-07-10 18:47:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.39 Mbit/s

95th percentile per-packet one-way delay: 88.282 ms

Loss rate: 1.49%

-- Flow 1:

Average throughput: 11.92 Mbit/s

95th percentile per-packet one-way delay: 88.414 ms

Loss rate: 1.16%

-- Flow 2:

Average throughput: 7.94 Mbit/s

95th percentile per-packet one-way delay: 88.126 ms

Loss rate: 1.74%

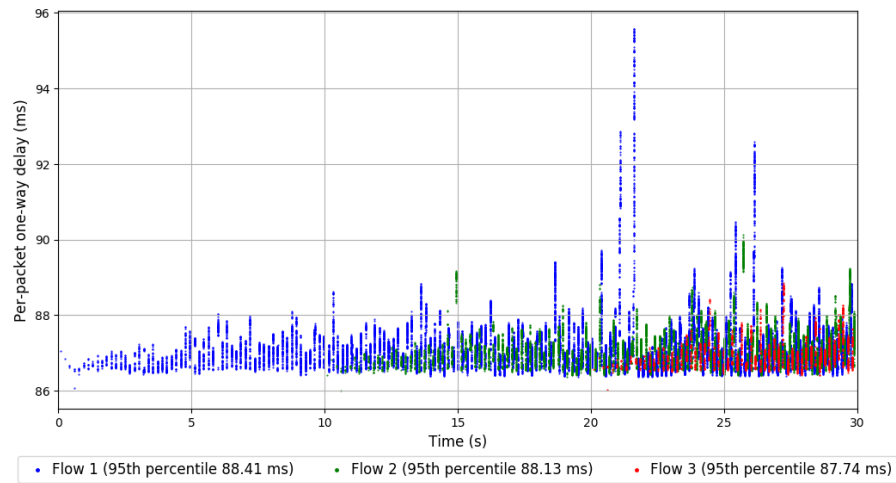
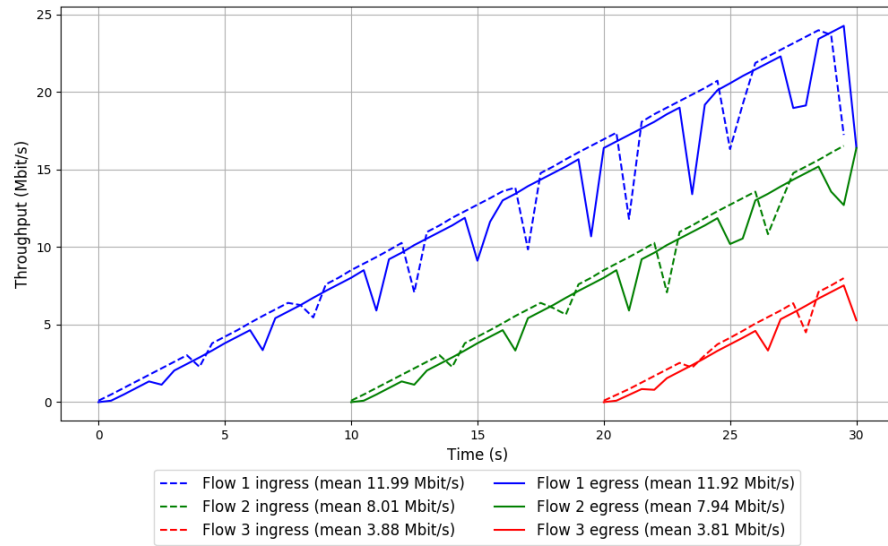
-- Flow 3:

Average throughput: 3.81 Mbit/s

95th percentile per-packet one-way delay: 87.742 ms

Loss rate: 3.55%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-07-10 17:11:32

End at: 2018-07-10 17:12:02

Local clock offset: 0.024 ms

Remote clock offset: 0.073 ms

Below is generated by plot.py at 2018-07-10 18:47:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.91 Mbit/s

95th percentile per-packet one-way delay: 87.622 ms

Loss rate: 1.47%

-- Flow 1:

Average throughput: 12.02 Mbit/s

95th percentile per-packet one-way delay: 87.740 ms

Loss rate: 1.15%

-- Flow 2:

Average throughput: 7.75 Mbit/s

95th percentile per-packet one-way delay: 87.379 ms

Loss rate: 1.76%

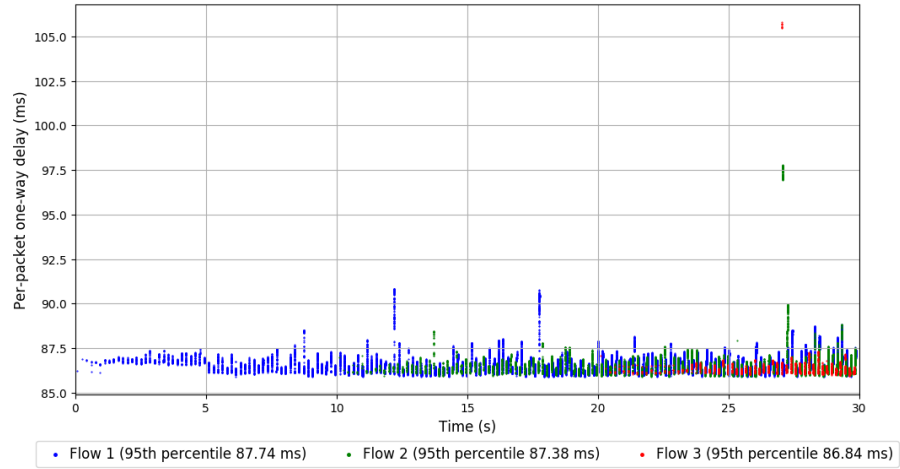
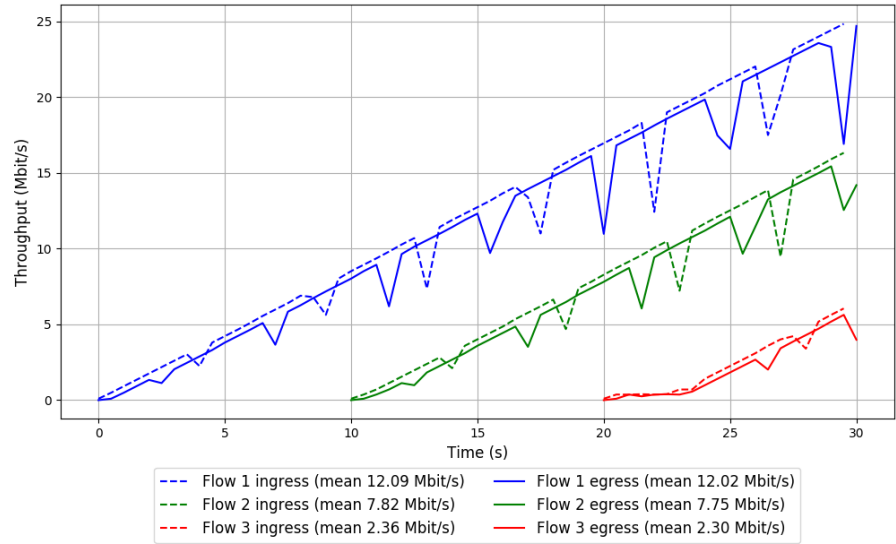
-- Flow 3:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 86.843 ms

Loss rate: 4.42%

Run 10: Report of LEDBAT — Data Link

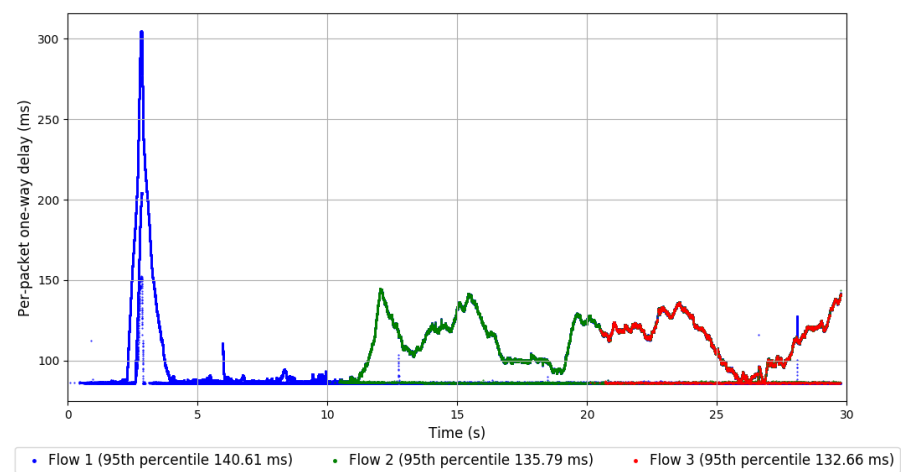
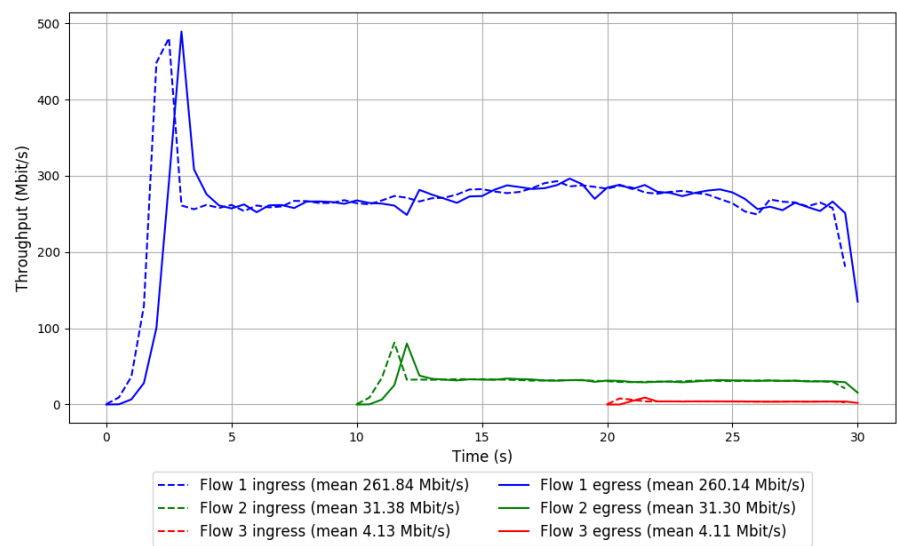


Run 1: Statistics of PCC-Allegro

Start at: 2018-07-10 13:12:53
End at: 2018-07-10 13:13:23
Local clock offset: -0.156 ms
Remote clock offset: -0.054 ms

Below is generated by plot.py at 2018-07-10 18:49:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 282.21 Mbit/s
95th percentile per-packet one-way delay: 140.070 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 260.14 Mbit/s
95th percentile per-packet one-way delay: 140.613 ms
Loss rate: 1.22%
-- Flow 2:
Average throughput: 31.30 Mbit/s
95th percentile per-packet one-way delay: 135.791 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 4.11 Mbit/s
95th percentile per-packet one-way delay: 132.664 ms
Loss rate: 2.22%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-07-10 13:37:01

End at: 2018-07-10 13:37:31

Local clock offset: 0.113 ms

Remote clock offset: 0.037 ms

Below is generated by plot.py at 2018-07-10 18:49:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 256.15 Mbit/s

95th percentile per-packet one-way delay: 150.371 ms

Loss rate: 1.15%

-- Flow 1:

Average throughput: 229.11 Mbit/s

95th percentile per-packet one-way delay: 151.857 ms

Loss rate: 1.15%

-- Flow 2:

Average throughput: 32.43 Mbit/s

95th percentile per-packet one-way delay: 143.863 ms

Loss rate: 0.93%

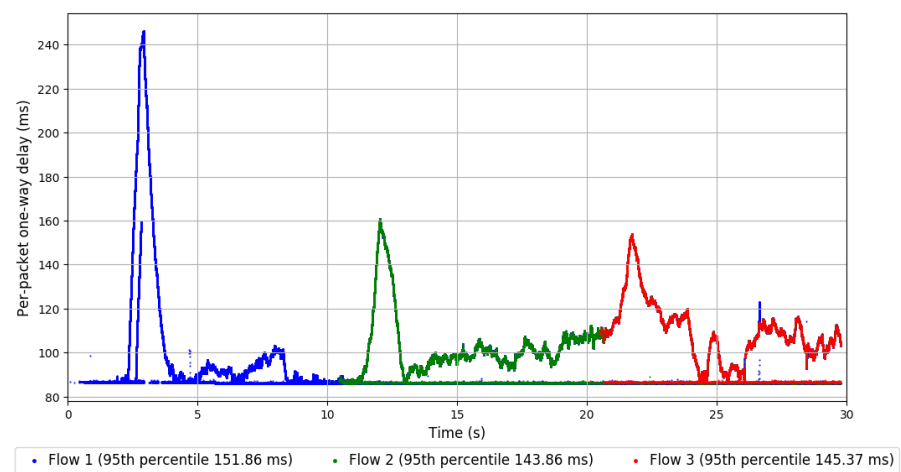
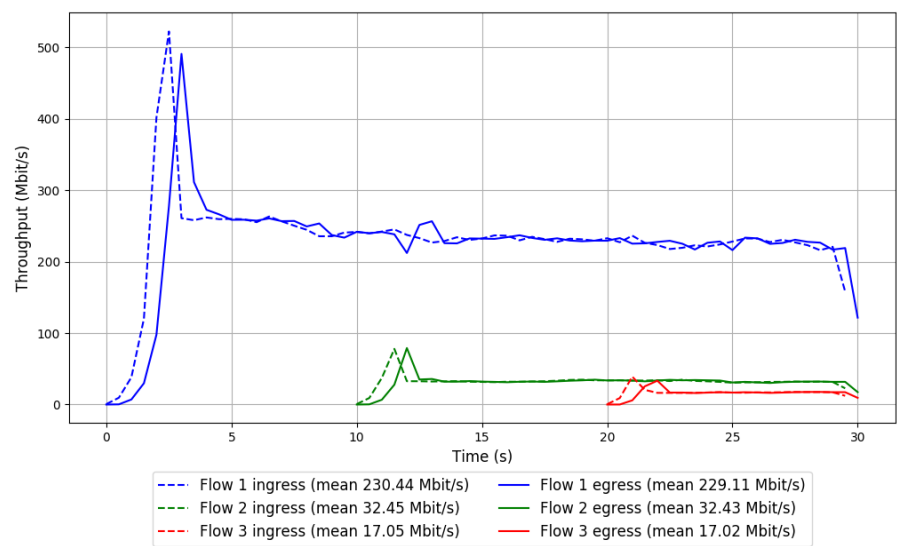
-- Flow 3:

Average throughput: 17.02 Mbit/s

95th percentile per-packet one-way delay: 145.365 ms

Loss rate: 1.94%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-07-10 14:01:28

End at: 2018-07-10 14:01:58

Local clock offset: 0.118 ms

Remote clock offset: 0.041 ms

Below is generated by plot.py at 2018-07-10 18:49:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 259.68 Mbit/s

95th percentile per-packet one-way delay: 194.706 ms

Loss rate: 1.42%

-- Flow 1:

Average throughput: 236.27 Mbit/s

95th percentile per-packet one-way delay: 196.015 ms

Loss rate: 1.46%

-- Flow 2:

Average throughput: 33.25 Mbit/s

95th percentile per-packet one-way delay: 183.472 ms

Loss rate: 0.96%

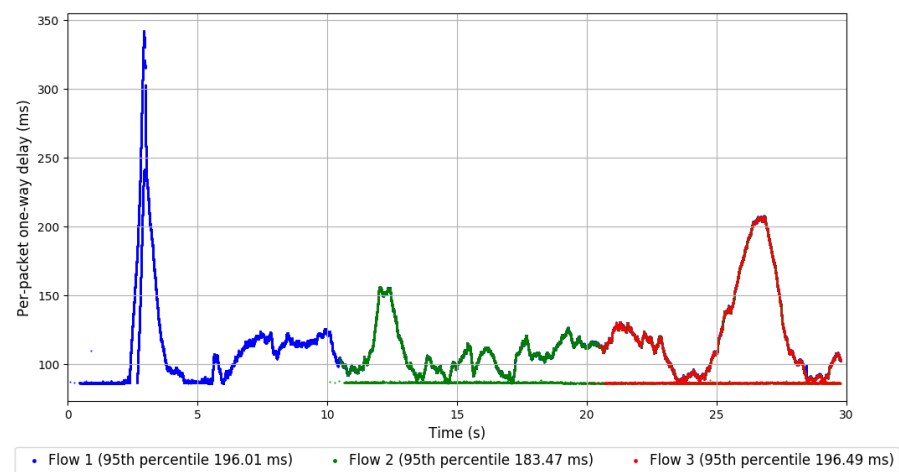
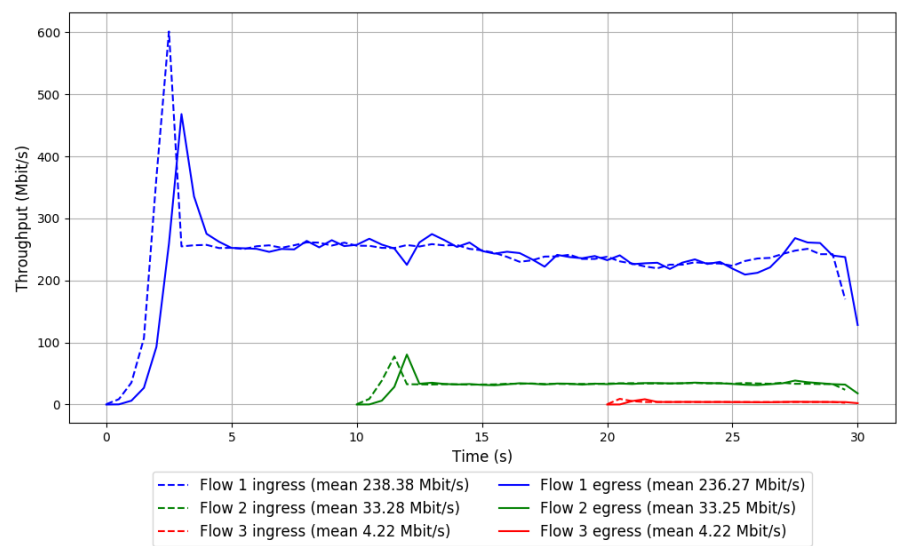
-- Flow 3:

Average throughput: 4.22 Mbit/s

95th percentile per-packet one-way delay: 196.493 ms

Loss rate: 1.80%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-07-10 14:26:13

End at: 2018-07-10 14:26:43

Local clock offset: -0.058 ms

Remote clock offset: 0.01 ms

Below is generated by plot.py at 2018-07-10 18:49:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 265.03 Mbit/s

95th percentile per-packet one-way delay: 190.699 ms

Loss rate: 1.27%

-- Flow 1:

Average throughput: 239.56 Mbit/s

95th percentile per-packet one-way delay: 190.401 ms

Loss rate: 1.20%

-- Flow 2:

Average throughput: 7.72 Mbit/s

95th percentile per-packet one-way delay: 187.184 ms

Loss rate: 0.98%

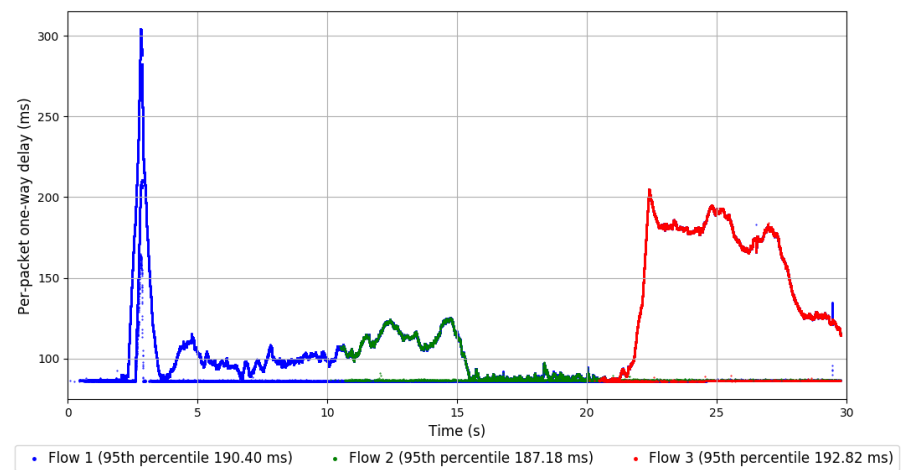
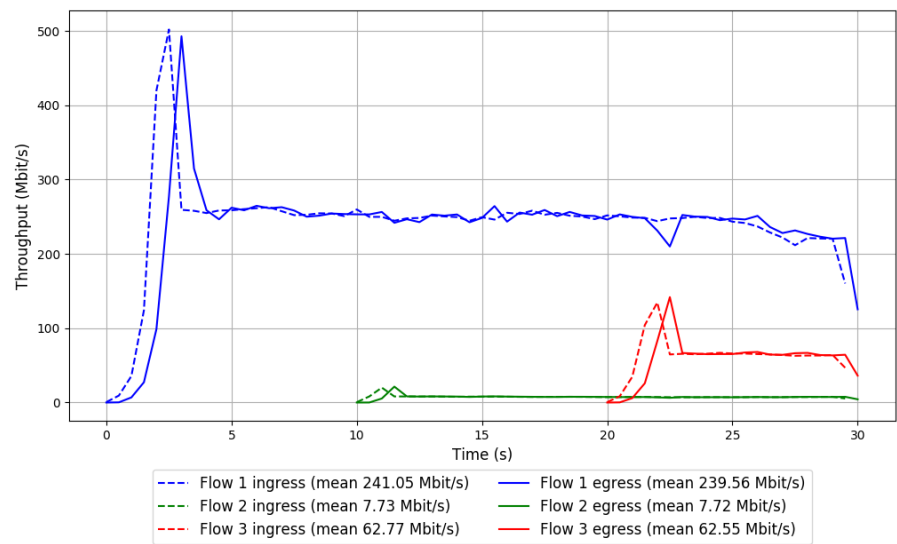
-- Flow 3:

Average throughput: 62.55 Mbit/s

95th percentile per-packet one-way delay: 192.817 ms

Loss rate: 2.13%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-07-10 14:50:40

End at: 2018-07-10 14:51:10

Local clock offset: 0.09 ms

Remote clock offset: 0.013 ms

Below is generated by plot.py at 2018-07-10 18:51:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 301.72 Mbit/s

95th percentile per-packet one-way delay: 230.158 ms

Loss rate: 1.42%

-- Flow 1:

Average throughput: 270.27 Mbit/s

95th percentile per-packet one-way delay: 229.043 ms

Loss rate: 1.37%

-- Flow 2:

Average throughput: 31.56 Mbit/s

95th percentile per-packet one-way delay: 230.138 ms

Loss rate: 1.32%

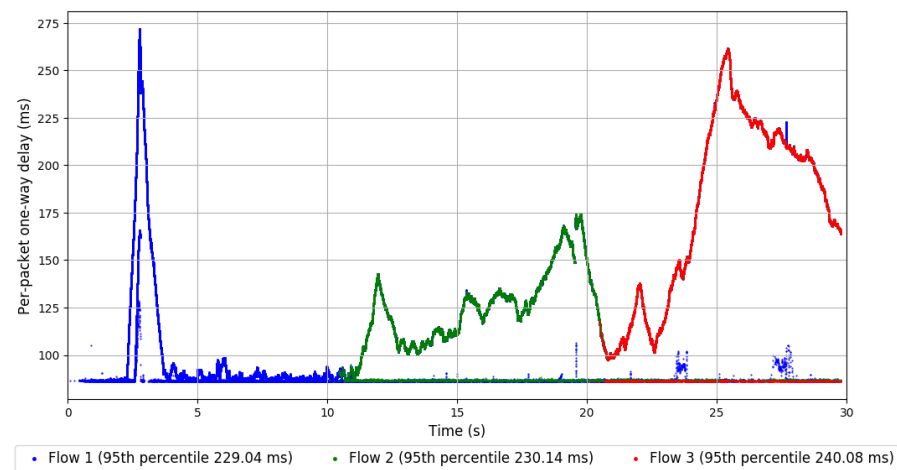
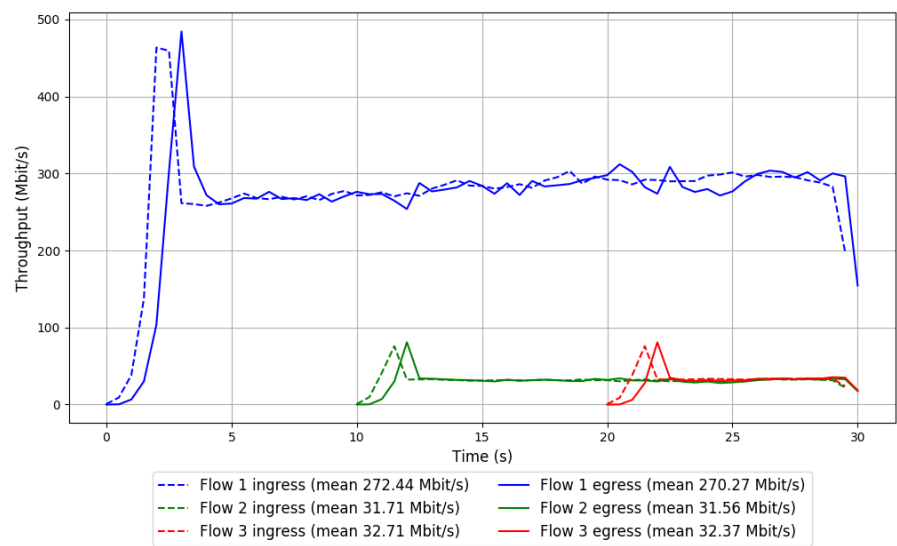
-- Flow 3:

Average throughput: 32.37 Mbit/s

95th percentile per-packet one-way delay: 240.078 ms

Loss rate: 2.79%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-07-10 15:15:28

End at: 2018-07-10 15:15:58

Local clock offset: -0.122 ms

Remote clock offset: 0.005 ms

Below is generated by plot.py at 2018-07-10 18:51:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 274.92 Mbit/s

95th percentile per-packet one-way delay: 157.477 ms

Loss rate: 1.25%

-- Flow 1:

Average throughput: 261.47 Mbit/s

95th percentile per-packet one-way delay: 157.581 ms

Loss rate: 1.23%

-- Flow 2:

Average throughput: 4.37 Mbit/s

95th percentile per-packet one-way delay: 144.420 ms

Loss rate: 1.00%

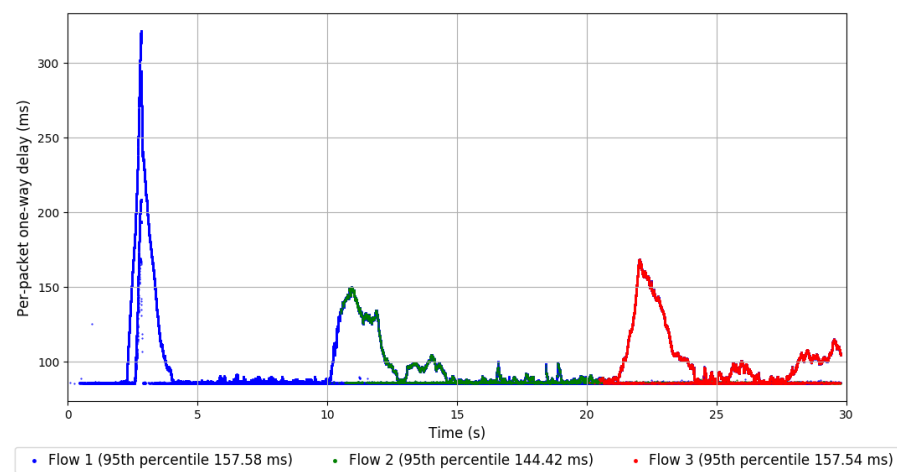
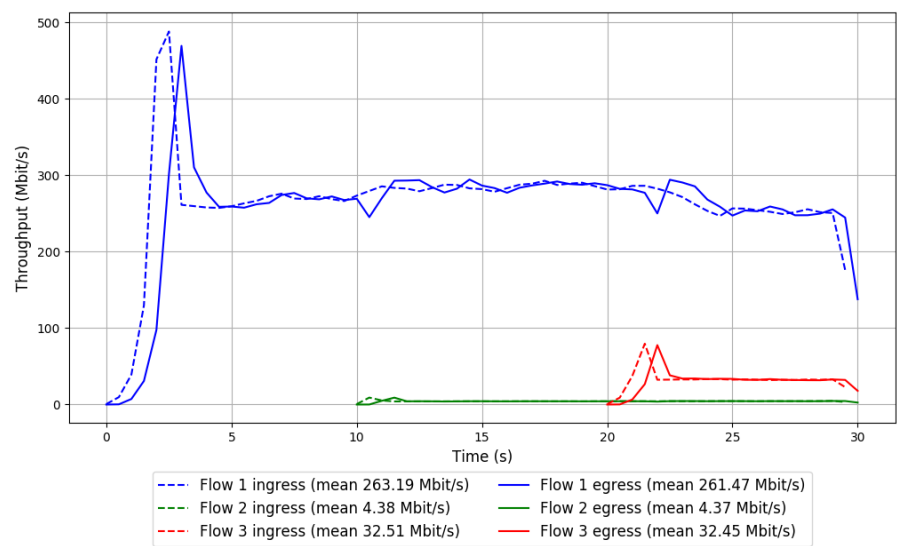
-- Flow 3:

Average throughput: 32.45 Mbit/s

95th percentile per-packet one-way delay: 157.538 ms

Loss rate: 1.91%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-07-10 15:40:14

End at: 2018-07-10 15:40:44

Local clock offset: -0.193 ms

Remote clock offset: 0.038 ms

Below is generated by plot.py at 2018-07-10 18:51:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 273.99 Mbit/s

95th percentile per-packet one-way delay: 272.407 ms

Loss rate: 1.23%

-- Flow 1:

Average throughput: 251.83 Mbit/s

95th percentile per-packet one-way delay: 272.220 ms

Loss rate: 1.23%

-- Flow 2:

Average throughput: 32.42 Mbit/s

95th percentile per-packet one-way delay: 274.561 ms

Loss rate: 1.17%

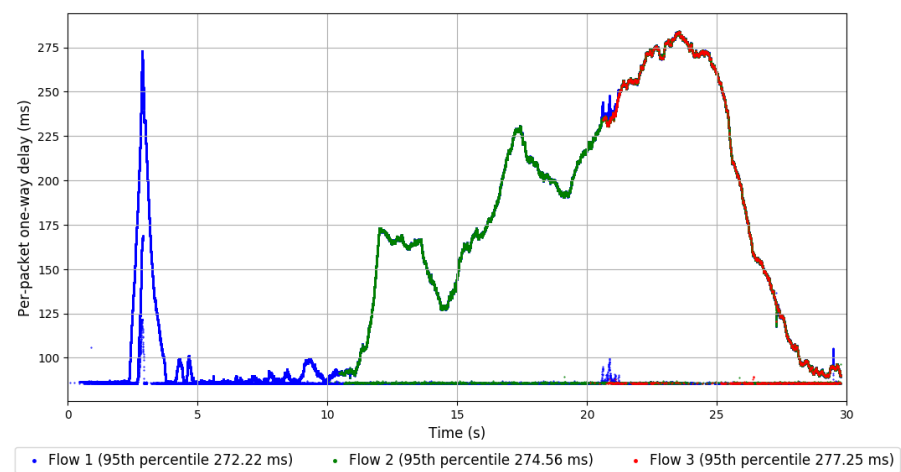
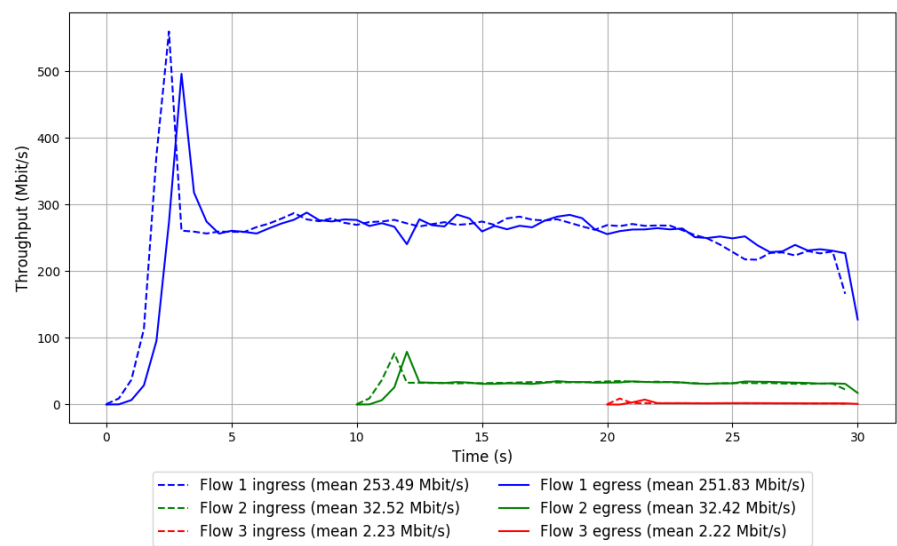
-- Flow 3:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 277.253 ms

Loss rate: 2.13%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-07-10 16:04:54

End at: 2018-07-10 16:05:24

Local clock offset: -0.192 ms

Remote clock offset: 0.027 ms

Below is generated by plot.py at 2018-07-10 18:53:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 267.74 Mbit/s

95th percentile per-packet one-way delay: 261.125 ms

Loss rate: 1.78%

-- Flow 1:

Average throughput: 244.76 Mbit/s

95th percentile per-packet one-way delay: 260.211 ms

Loss rate: 1.63%

-- Flow 2:

Average throughput: 4.67 Mbit/s

95th percentile per-packet one-way delay: 261.288 ms

Loss rate: 1.95%

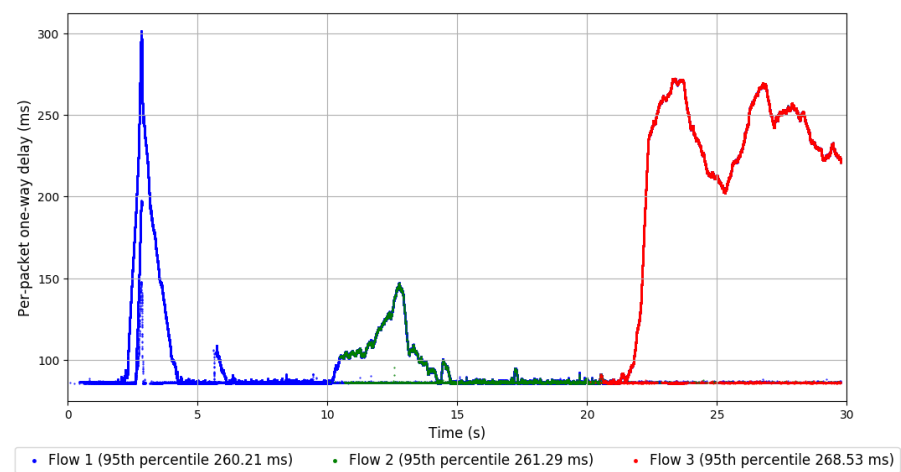
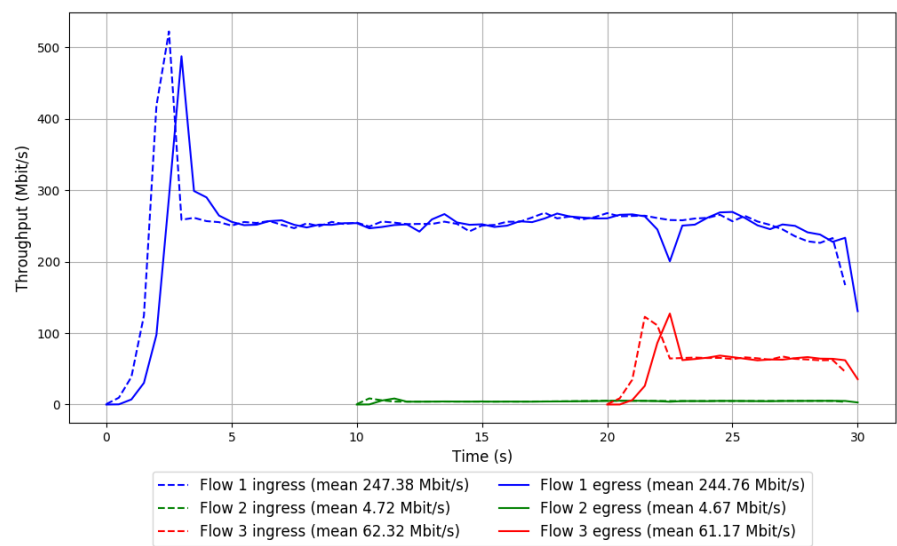
-- Flow 3:

Average throughput: 61.17 Mbit/s

95th percentile per-packet one-way delay: 268.531 ms

Loss rate: 3.57%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-07-10 16:29:21

End at: 2018-07-10 16:29:51

Local clock offset: -0.008 ms

Remote clock offset: 0.044 ms

Below is generated by plot.py at 2018-07-10 18:54:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 280.02 Mbit/s

95th percentile per-packet one-way delay: 133.842 ms

Loss rate: 1.13%

-- Flow 1:

Average throughput: 258.44 Mbit/s

95th percentile per-packet one-way delay: 135.677 ms

Loss rate: 1.11%

-- Flow 2:

Average throughput: 16.60 Mbit/s

95th percentile per-packet one-way delay: 128.028 ms

Loss rate: 0.90%

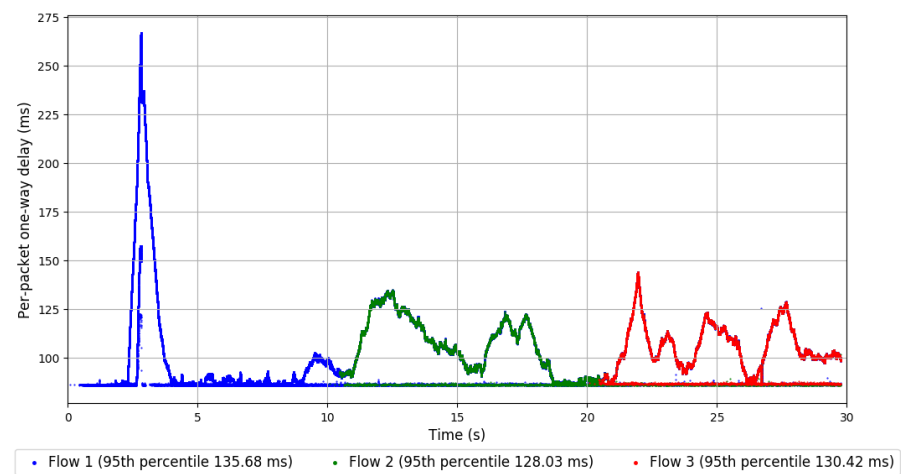
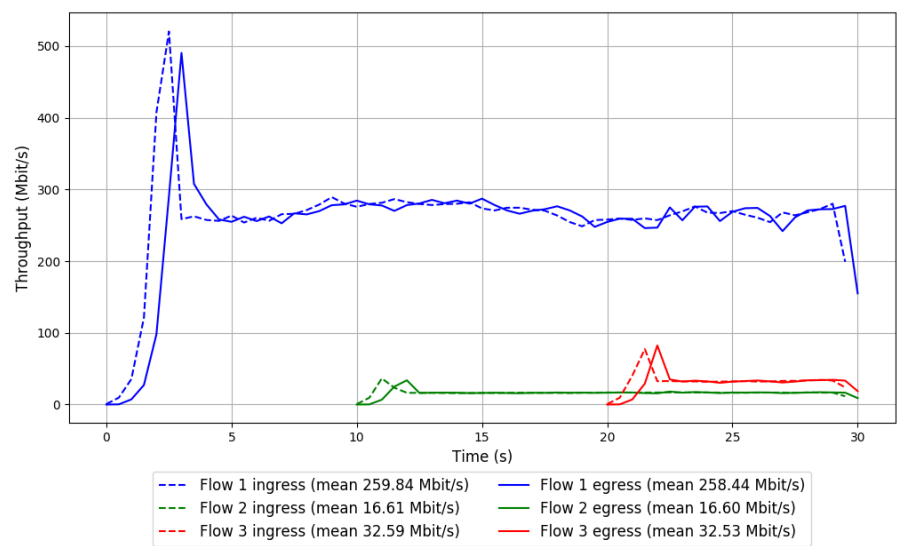
-- Flow 3:

Average throughput: 32.53 Mbit/s

95th percentile per-packet one-way delay: 130.418 ms

Loss rate: 1.92%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-07-10 16:53:40

End at: 2018-07-10 16:54:10

Local clock offset: -0.025 ms

Remote clock offset: 0.064 ms

Below is generated by plot.py at 2018-07-10 18:54:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 270.01 Mbit/s

95th percentile per-packet one-way delay: 162.264 ms

Loss rate: 1.08%

-- Flow 1:

Average throughput: 237.30 Mbit/s

95th percentile per-packet one-way delay: 162.707 ms

Loss rate: 1.06%

-- Flow 2:

Average throughput: 33.49 Mbit/s

95th percentile per-packet one-way delay: 146.101 ms

Loss rate: 0.91%

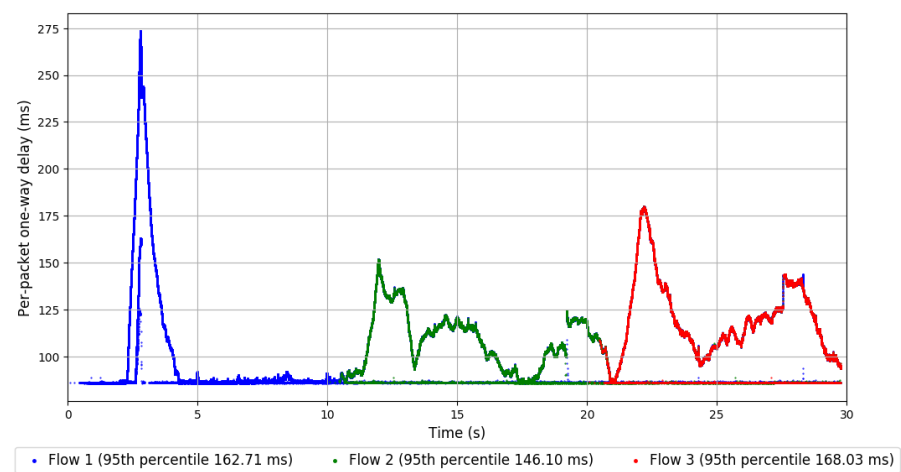
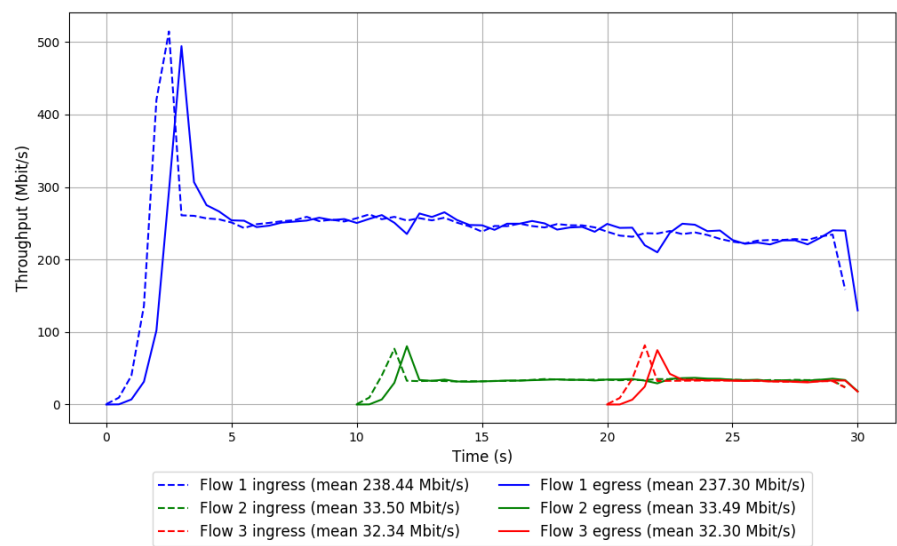
-- Flow 3:

Average throughput: 32.30 Mbit/s

95th percentile per-packet one-way delay: 168.028 ms

Loss rate: 1.89%

Run 10: Report of PCC-Allegro — Data Link

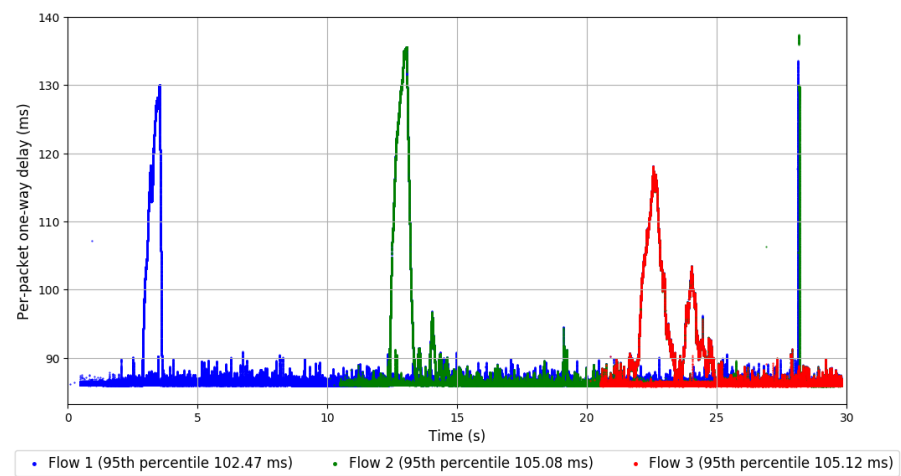
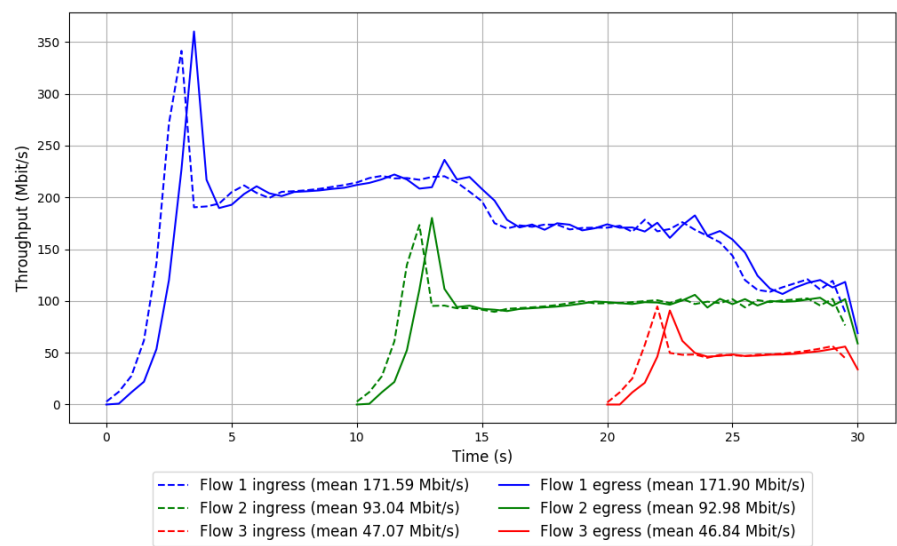


```
Run 1: Statistics of PCC-Expr

Start at: 2018-07-10 13:26:18
End at: 2018-07-10 13:26:48
Local clock offset: -0.048 ms
Remote clock offset: -0.008 ms

# Below is generated by plot.py at 2018-07-10 18:57:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 248.82 Mbit/s
95th percentile per-packet one-way delay: 103.398 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 171.90 Mbit/s
95th percentile per-packet one-way delay: 102.471 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 92.98 Mbit/s
95th percentile per-packet one-way delay: 105.083 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 46.84 Mbit/s
95th percentile per-packet one-way delay: 105.122 ms
Loss rate: 2.24%
```


Run 1: Report of PCC-Expr — Data Link

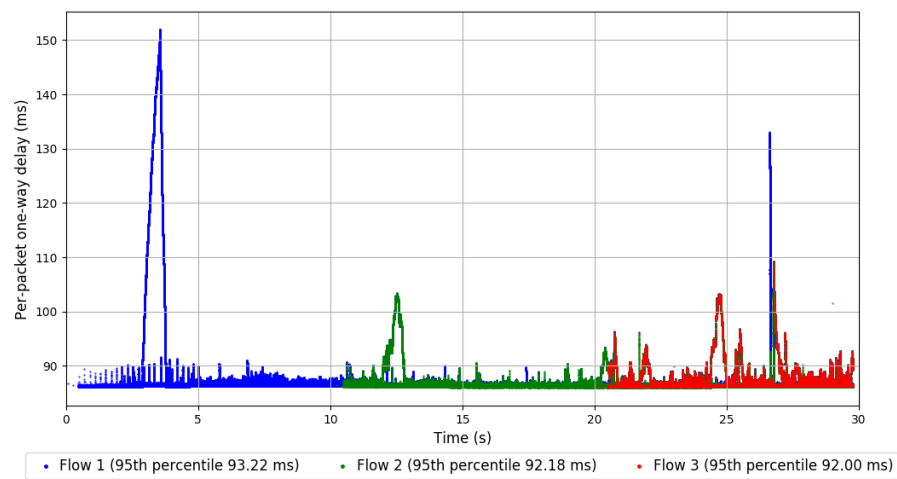
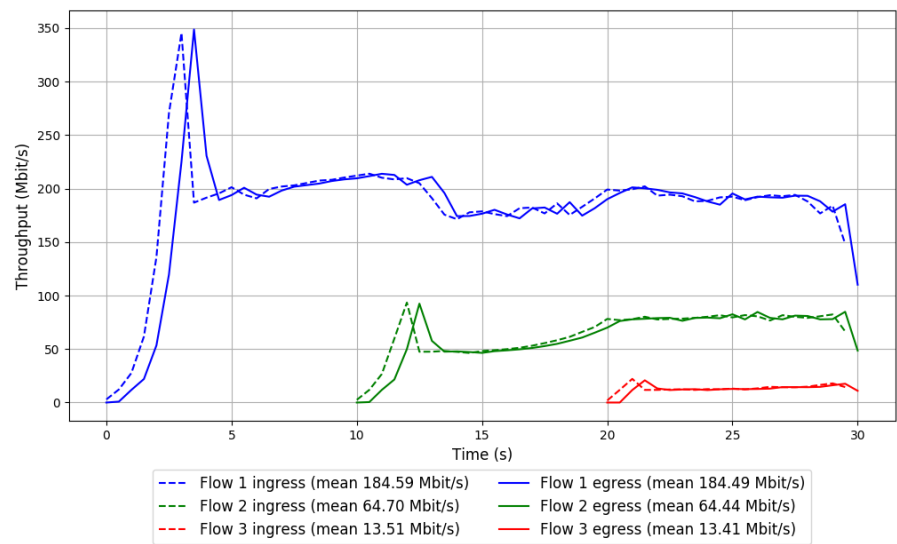


Run 2: Statistics of PCC-Expr

Start at: 2018-07-10 13:50:32
End at: 2018-07-10 13:51:02
Local clock offset: 0.145 ms
Remote clock offset: -0.036 ms

Below is generated by plot.py at 2018-07-10 18:57:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 231.58 Mbit/s
95th percentile per-packet one-way delay: 92.890 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 184.49 Mbit/s
95th percentile per-packet one-way delay: 93.222 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 64.44 Mbit/s
95th percentile per-packet one-way delay: 92.178 ms
Loss rate: 1.27%
-- Flow 3:
Average throughput: 13.41 Mbit/s
95th percentile per-packet one-way delay: 91.997 ms
Loss rate: 2.53%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-07-10 14:15:21

End at: 2018-07-10 14:15:51

Local clock offset: -0.055 ms

Remote clock offset: 0.04 ms

Below is generated by plot.py at 2018-07-10 18:58:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 218.08 Mbit/s

95th percentile per-packet one-way delay: 114.579 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 176.76 Mbit/s

95th percentile per-packet one-way delay: 115.063 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 57.15 Mbit/s

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

Loss rate: 1.34%

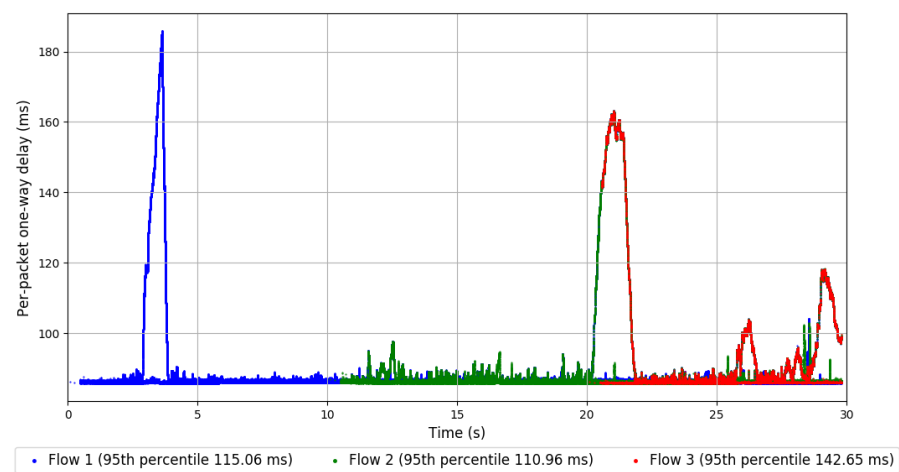
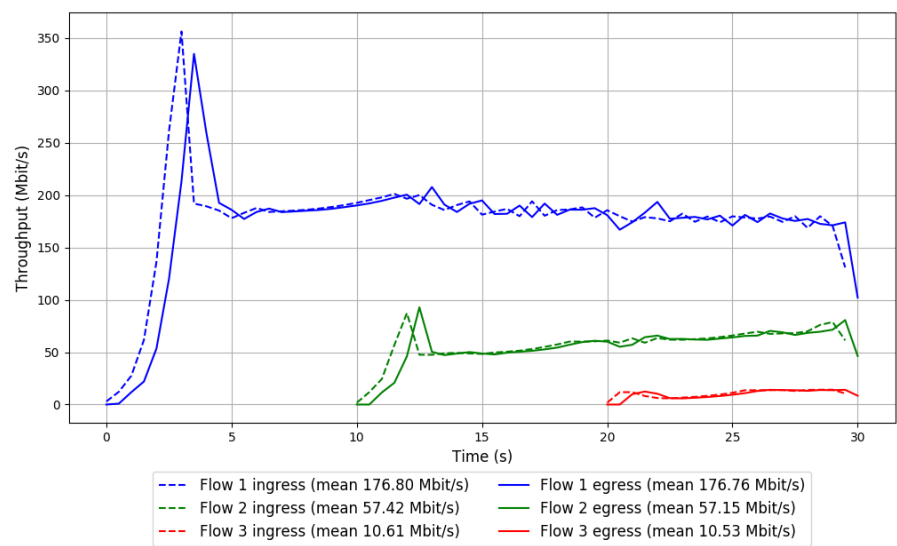
-- Flow 3:

Average throughput: 10.53 Mbit/s

95th percentile per-packet one-way delay: 142.652 ms

Loss rate: 2.50%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-07-10 14:39:52

End at: 2018-07-10 14:40:22

Local clock offset: -0.144 ms

Remote clock offset: 0.015 ms

Below is generated by plot.py at 2018-07-10 19:00:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 242.68 Mbit/s

95th percentile per-packet one-way delay: 389.469 ms

Loss rate: 15.24%

-- Flow 1:

Average throughput: 67.86 Mbit/s

95th percentile per-packet one-way delay: 260.419 ms

Loss rate: 6.82%

-- Flow 2:

Average throughput: 261.87 Mbit/s

95th percentile per-packet one-way delay: 392.603 ms

Loss rate: 18.14%

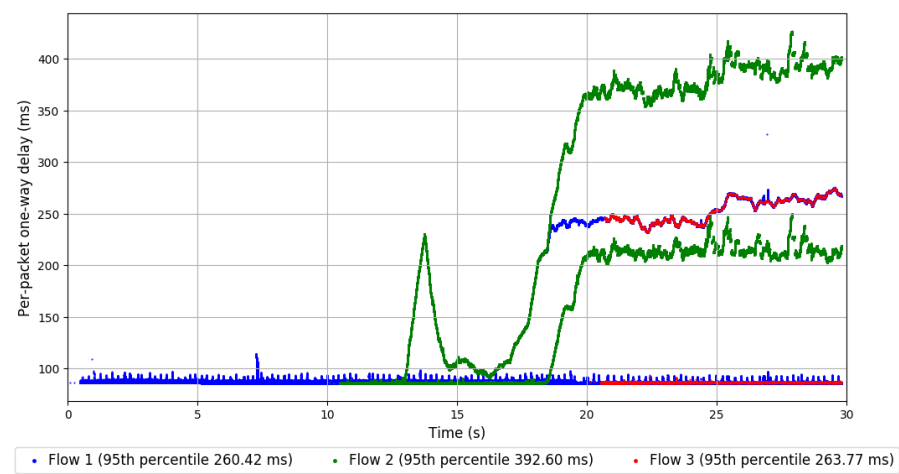
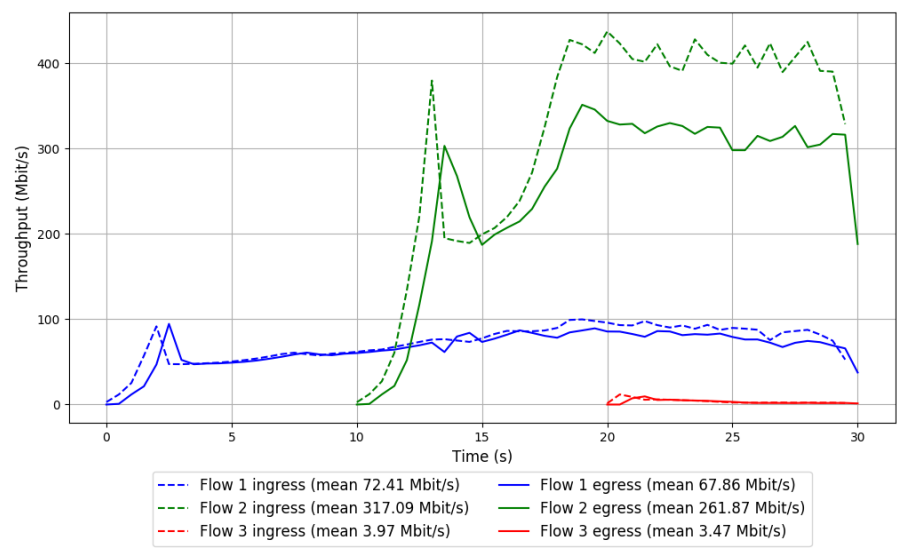
-- Flow 3:

Average throughput: 3.47 Mbit/s

95th percentile per-packet one-way delay: 263.770 ms

Loss rate: 14.17%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-07-10 15:04:38

End at: 2018-07-10 15:05:08

Local clock offset: 0.021 ms

Remote clock offset: 0.038 ms

Below is generated by plot.py at 2018-07-10 19:00:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 226.56 Mbit/s

95th percentile per-packet one-way delay: 97.773 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 170.68 Mbit/s

95th percentile per-packet one-way delay: 97.221 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 79.81 Mbit/s

95th percentile per-packet one-way delay: 97.362 ms

Loss rate: 1.29%

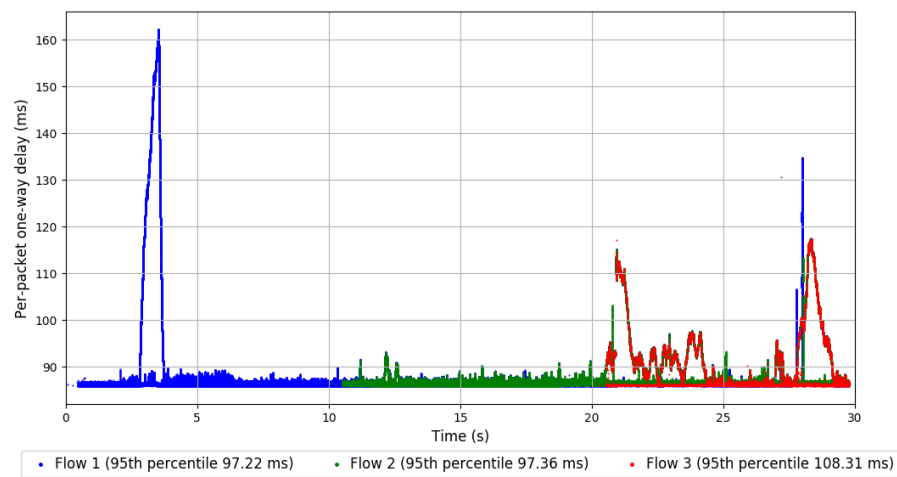
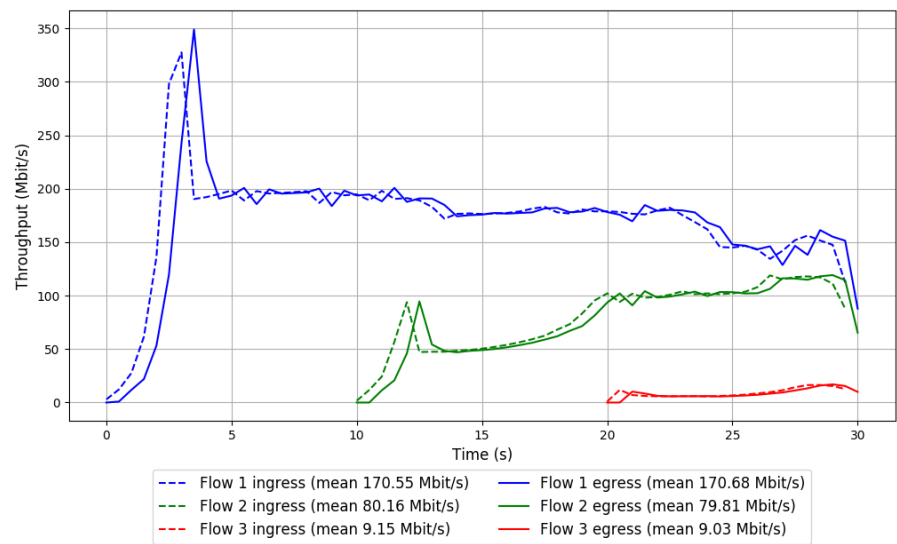
-- Flow 3:

Average throughput: 9.03 Mbit/s

95th percentile per-packet one-way delay: 108.306 ms

Loss rate: 3.08%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-07-10 15:29:21

End at: 2018-07-10 15:29:51

Local clock offset: -0.019 ms

Remote clock offset: 0.015 ms

Below is generated by plot.py at 2018-07-10 19:01:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 236.70 Mbit/s

95th percentile per-packet one-way delay: 96.481 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 174.91 Mbit/s

95th percentile per-packet one-way delay: 96.333 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 76.76 Mbit/s

95th percentile per-packet one-way delay: 98.728 ms

Loss rate: 1.20%

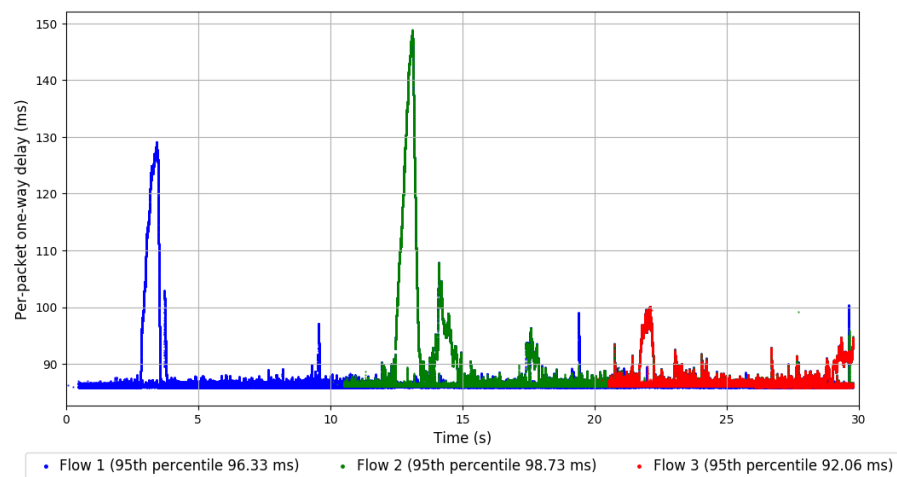
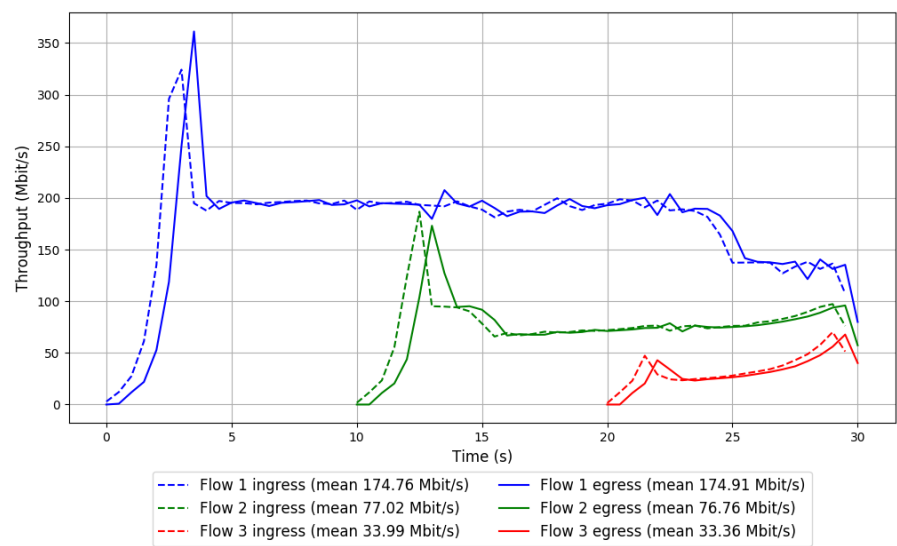
-- Flow 3:

Average throughput: 33.36 Mbit/s

95th percentile per-packet one-way delay: 92.055 ms

Loss rate: 3.58%

Run 6: Report of PCC-Expr — Data Link

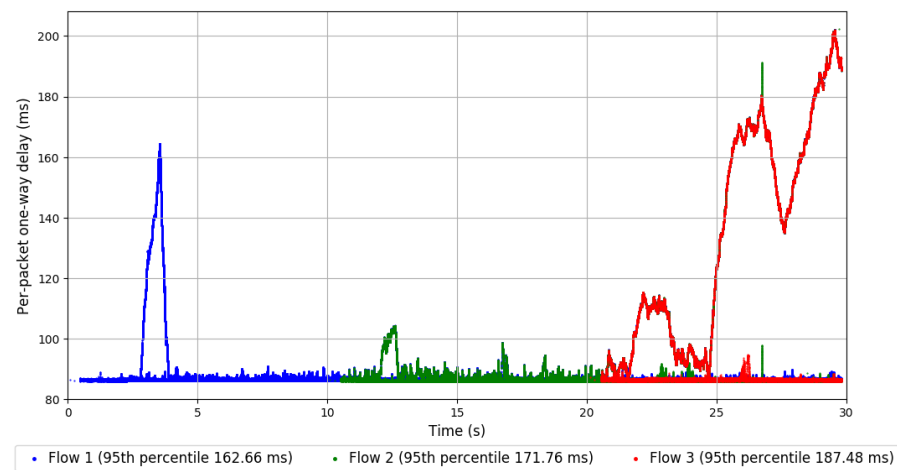
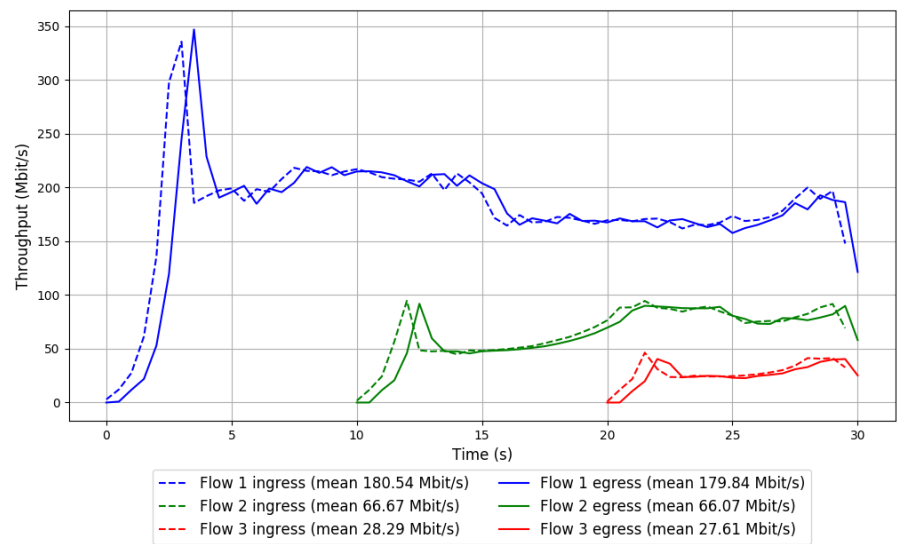


Run 7: Statistics of PCC-Expr

Start at: 2018-07-10 15:54:05
End at: 2018-07-10 15:54:35
Local clock offset: 0.015 ms
Remote clock offset: -0.016 ms

Below is generated by plot.py at 2018-07-10 19:02:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 232.62 Mbit/s
95th percentile per-packet one-way delay: 167.212 ms
Loss rate: 1.24%
-- Flow 1:
Average throughput: 179.84 Mbit/s
95th percentile per-packet one-way delay: 162.655 ms
Loss rate: 0.96%
-- Flow 2:
Average throughput: 66.07 Mbit/s
95th percentile per-packet one-way delay: 171.757 ms
Loss rate: 1.75%
-- Flow 3:
Average throughput: 27.61 Mbit/s
95th percentile per-packet one-way delay: 187.482 ms
Loss rate: 4.09%

Run 7: Report of PCC-Expr — Data Link

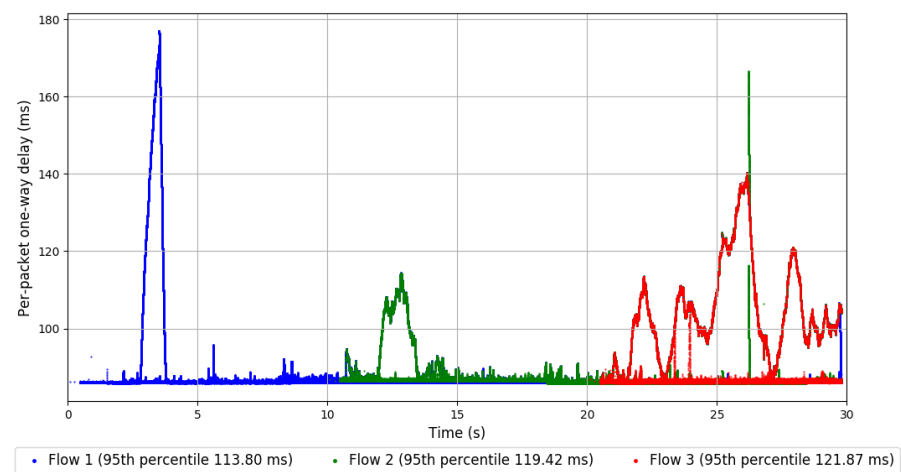
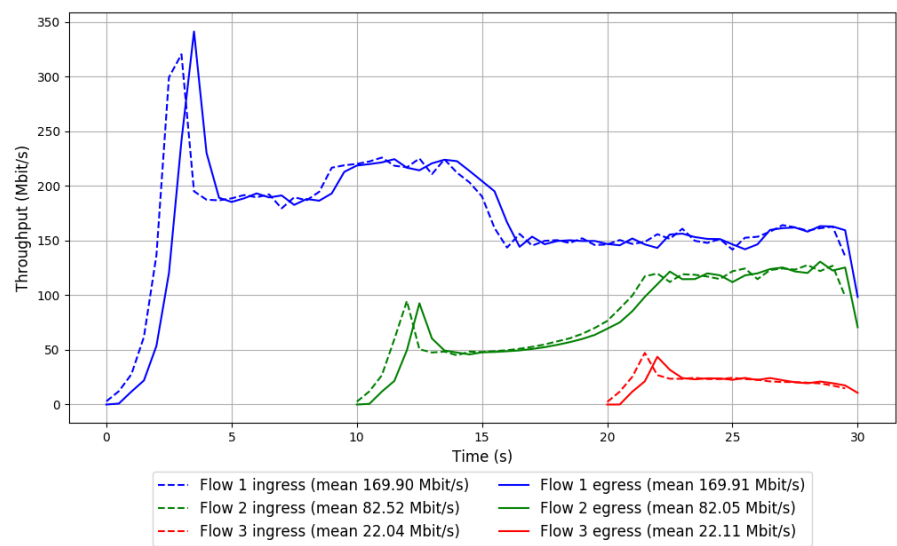


Run 8: Statistics of PCC-Expr

Start at: 2018-07-10 16:18:29
End at: 2018-07-10 16:18:59
Local clock offset: -0.036 ms
Remote clock offset: -0.005 ms

Below is generated by plot.py at 2018-07-10 19:02:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 231.52 Mbit/s
95th percentile per-packet one-way delay: 116.263 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 169.91 Mbit/s
95th percentile per-packet one-way delay: 113.800 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 82.05 Mbit/s
95th percentile per-packet one-way delay: 119.422 ms
Loss rate: 1.64%
-- Flow 3:
Average throughput: 22.11 Mbit/s
95th percentile per-packet one-way delay: 121.866 ms
Loss rate: 1.83%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-07-10 16:42:53

End at: 2018-07-10 16:43:23

Local clock offset: 0.129 ms

Remote clock offset: 0.04 ms

Below is generated by plot.py at 2018-07-10 19:06:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 228.33 Mbit/s

95th percentile per-packet one-way delay: 96.167 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 177.68 Mbit/s

95th percentile per-packet one-way delay: 94.962 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 65.06 Mbit/s

95th percentile per-packet one-way delay: 95.026 ms

Loss rate: 1.22%

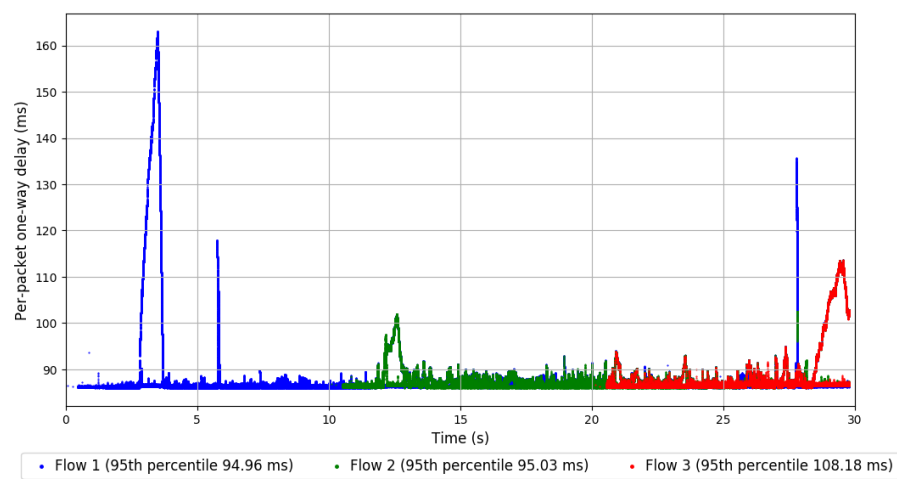
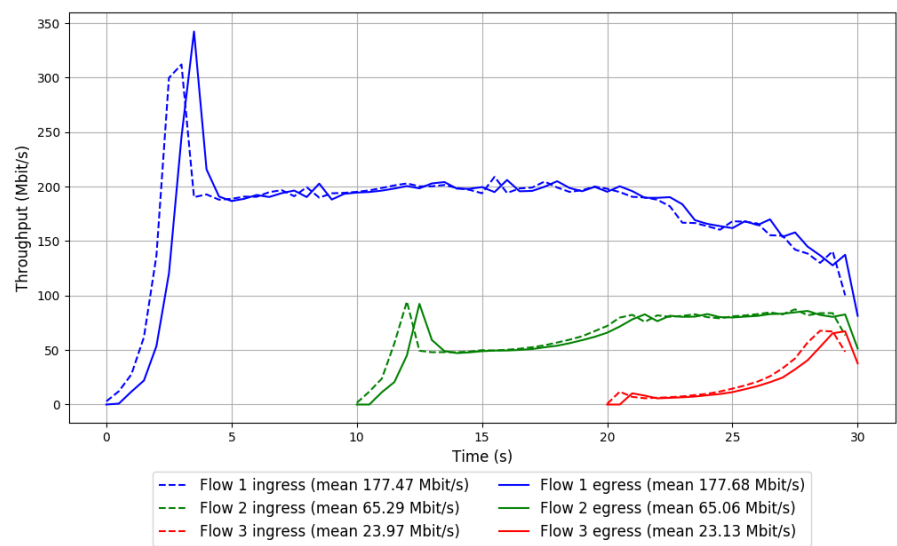
-- Flow 3:

Average throughput: 23.13 Mbit/s

95th percentile per-packet one-way delay: 108.183 ms

Loss rate: 5.22%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-07-10 17:07:09

End at: 2018-07-10 17:07:39

Local clock offset: -0.092 ms

Remote clock offset: 0.029 ms

Below is generated by plot.py at 2018-07-10 19:06:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 228.94 Mbit/s

95th percentile per-packet one-way delay: 102.510 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 179.57 Mbit/s

95th percentile per-packet one-way delay: 102.846 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 61.62 Mbit/s

95th percentile per-packet one-way delay: 102.263 ms

Loss rate: 1.12%

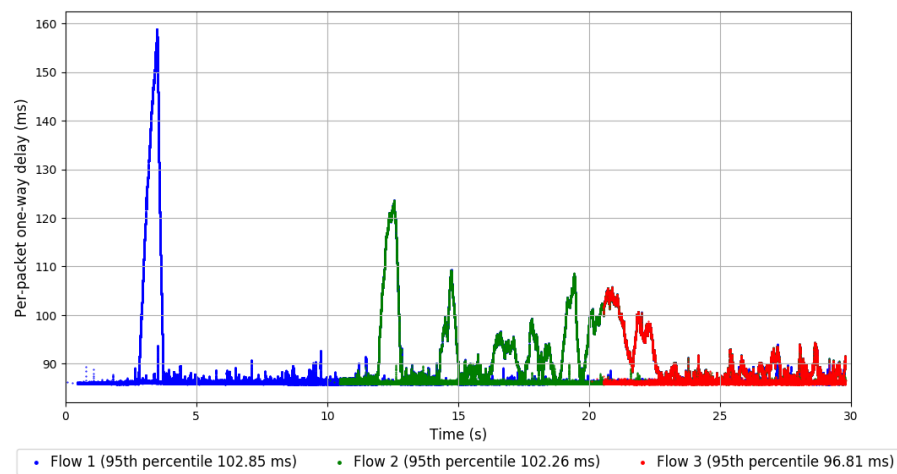
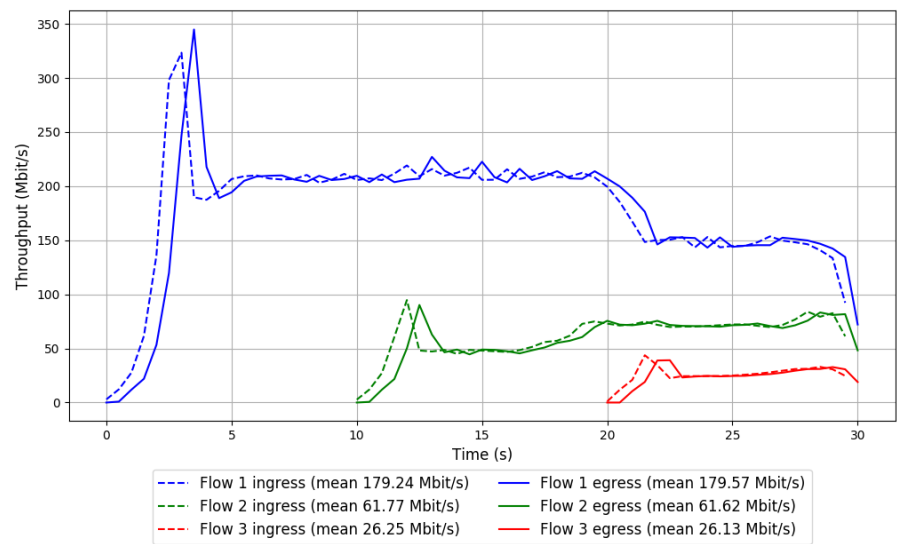
-- Flow 3:

Average throughput: 26.13 Mbit/s

95th percentile per-packet one-way delay: 96.809 ms

Loss rate: 2.19%

Run 10: Report of PCC-Expr — Data Link

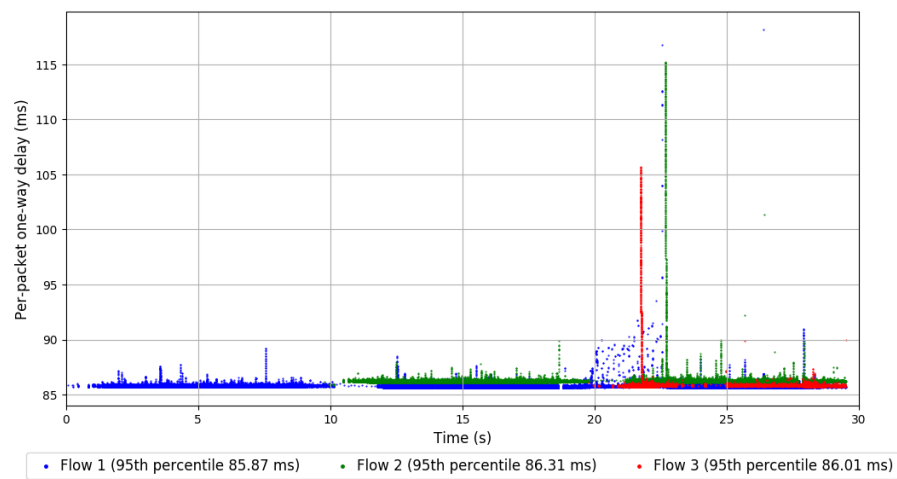
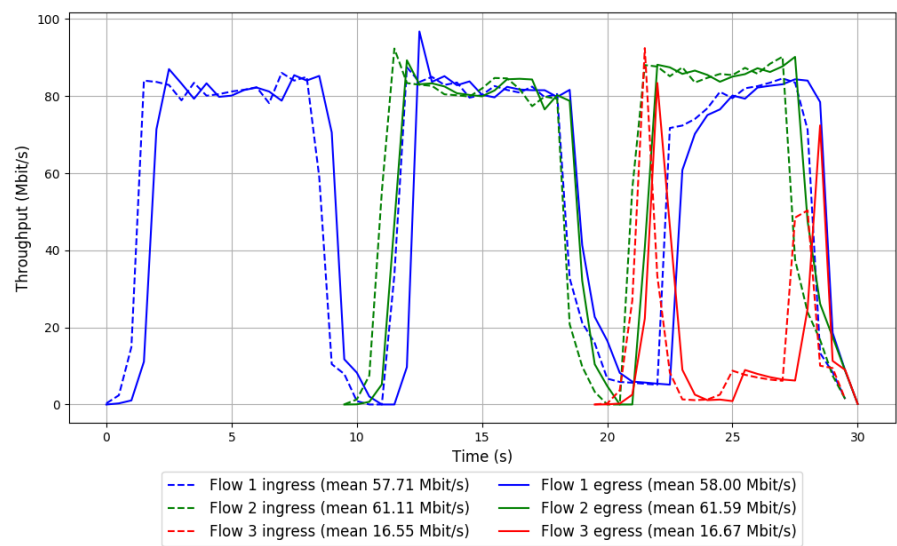


Run 1: Statistics of QUIC Cubic

Start at: 2018-07-10 13:11:36
End at: 2018-07-10 13:12:06
Local clock offset: -0.215 ms
Remote clock offset: -0.025 ms

Below is generated by plot.py at 2018-07-10 19:06:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 104.78 Mbit/s
95th percentile per-packet one-way delay: 86.267 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 58.00 Mbit/s
95th percentile per-packet one-way delay: 85.871 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 61.59 Mbit/s
95th percentile per-packet one-way delay: 86.307 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 16.67 Mbit/s
95th percentile per-packet one-way delay: 86.010 ms
Loss rate: 0.97%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-07-10 13:35:45

End at: 2018-07-10 13:36:15

Local clock offset: -0.026 ms

Remote clock offset: 0.013 ms

Below is generated by plot.py at 2018-07-10 19:06:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.46 Mbit/s

95th percentile per-packet one-way delay: 103.991 ms

Loss rate: 1.21%

-- Flow 1:

Average throughput: 46.85 Mbit/s

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

Loss rate: 0.83%

-- Flow 2:

Average throughput: 55.90 Mbit/s

95th percentile per-packet one-way delay: 86.347 ms

Loss rate: 1.02%

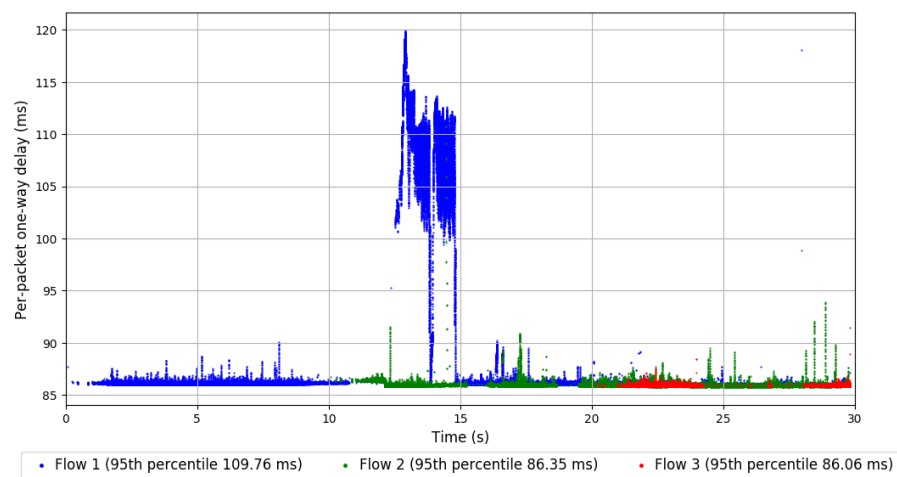
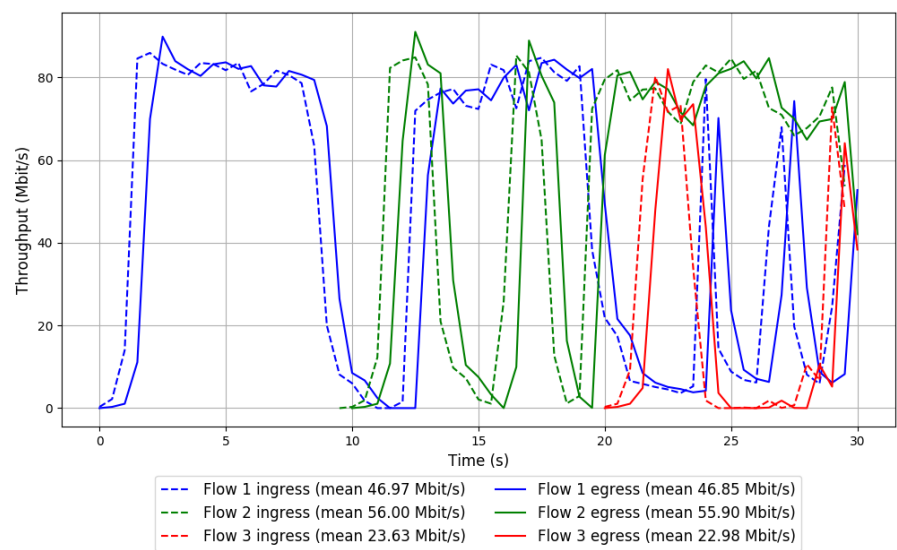
-- Flow 3:

Average throughput: 22.98 Mbit/s

95th percentile per-packet one-way delay: 86.065 ms

Loss rate: 4.42%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-07-10 14:00:11

End at: 2018-07-10 14:00:41

Local clock offset: -0.025 ms

Remote clock offset: 0.028 ms

Below is generated by plot.py at 2018-07-10 19:06:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 108.24 Mbit/s

95th percentile per-packet one-way delay: 86.418 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 57.17 Mbit/s

95th percentile per-packet one-way delay: 86.056 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 49.51 Mbit/s

95th percentile per-packet one-way delay: 86.432 ms

Loss rate: 0.13%

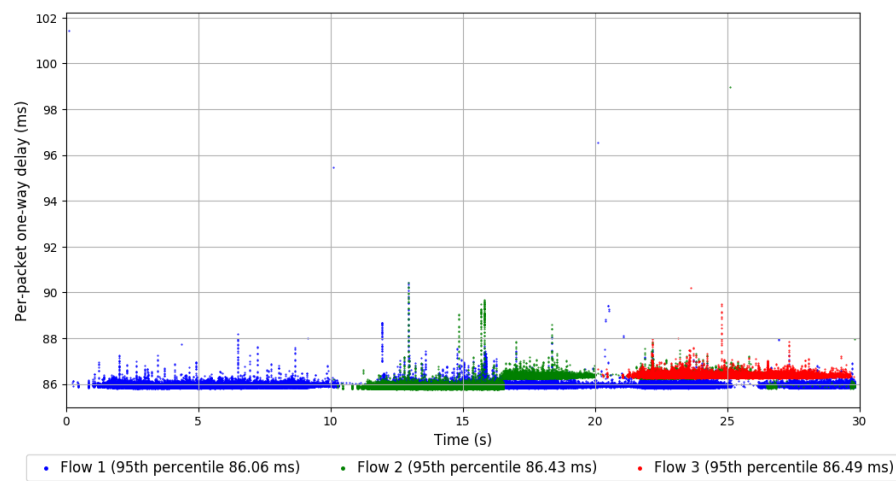
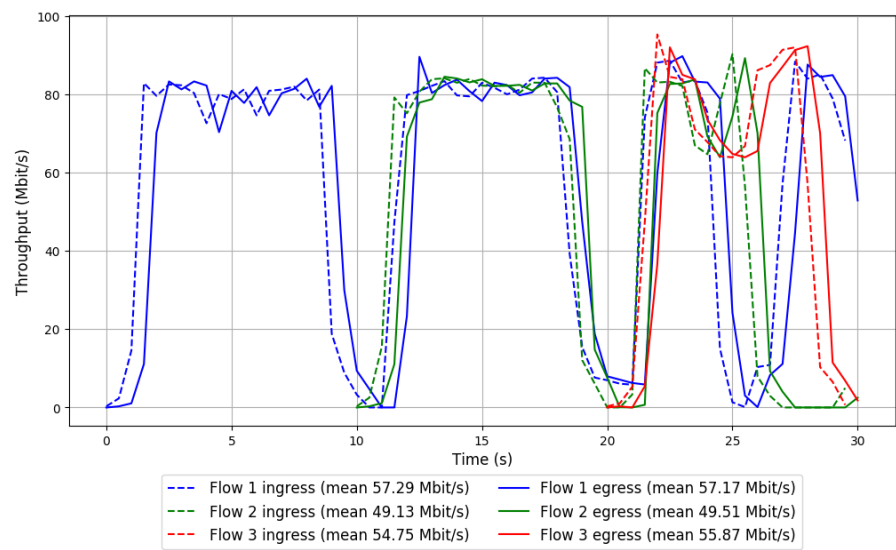
-- Flow 3:

Average throughput: 55.87 Mbit/s

95th percentile per-packet one-way delay: 86.487 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-07-10 14:24:56

End at: 2018-07-10 14:25:26

Local clock offset: 0.17 ms

Remote clock offset: 0.013 ms

Below is generated by plot.py at 2018-07-10 19:06:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.17 Mbit/s

95th percentile per-packet one-way delay: 86.688 ms

Loss rate: 1.13%

-- Flow 1:

Average throughput: 54.35 Mbit/s

95th percentile per-packet one-way delay: 86.718 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 36.48 Mbit/s

95th percentile per-packet one-way delay: 86.360 ms

Loss rate: 1.50%

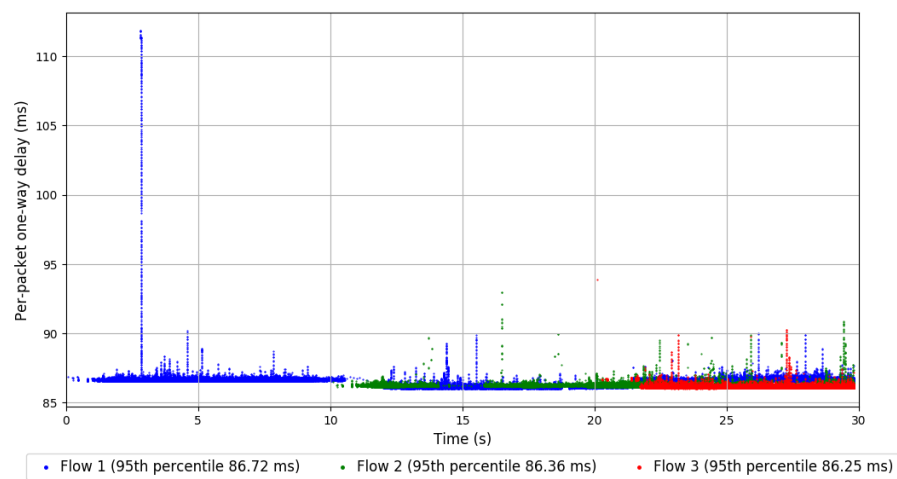
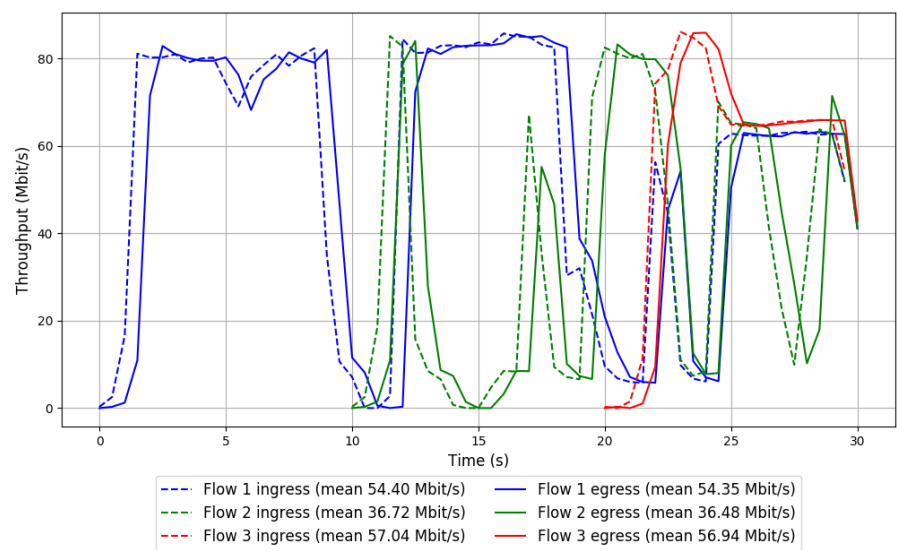
-- Flow 3:

Average throughput: 56.94 Mbit/s

95th percentile per-packet one-way delay: 86.251 ms

Loss rate: 2.01%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-07-10 14:49:25

End at: 2018-07-10 14:49:55

Local clock offset: -0.045 ms

Remote clock offset: 0.049 ms

Below is generated by plot.py at 2018-07-10 19:06:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 65.27 Mbit/s

95th percentile per-packet one-way delay: 86.498 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 11.91 Mbit/s

95th percentile per-packet one-way delay: 86.203 ms

Loss rate: 0.96%

-- Flow 2:

Average throughput: 49.31 Mbit/s

95th percentile per-packet one-way delay: 86.040 ms

Loss rate: 0.17%

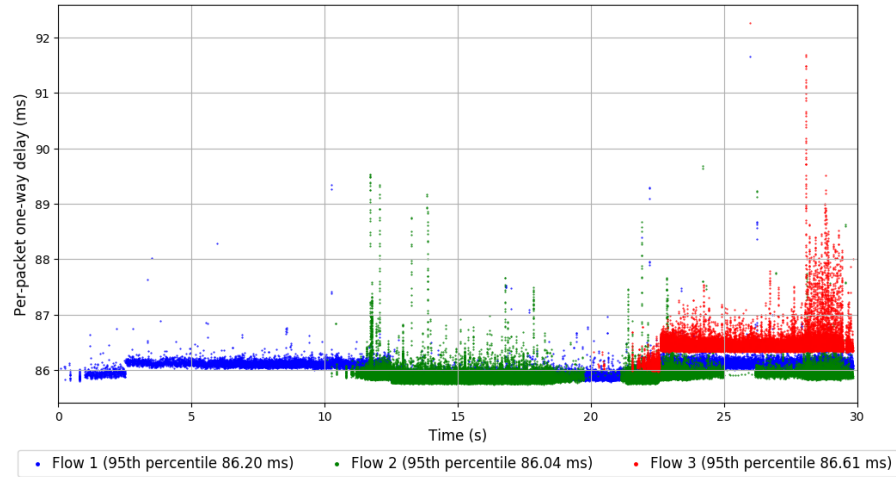
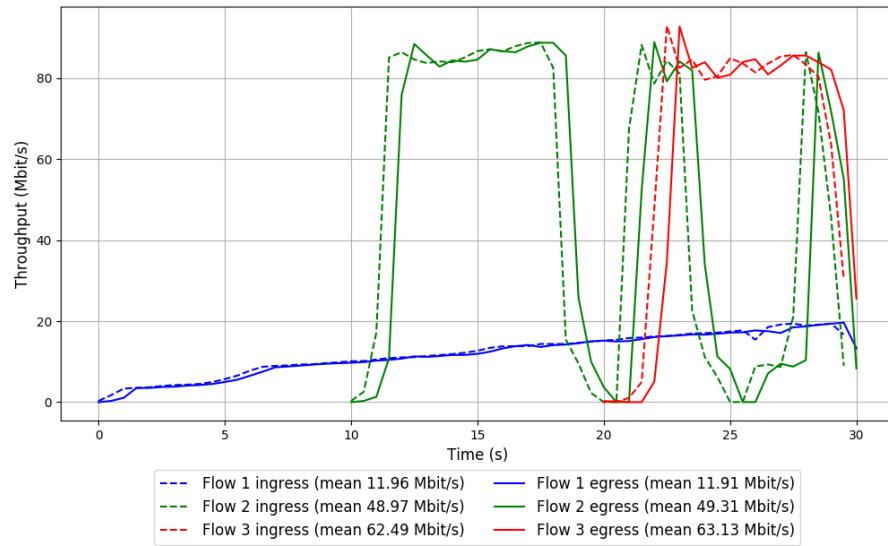
-- Flow 3:

Average throughput: 63.13 Mbit/s

95th percentile per-packet one-way delay: 86.614 ms

Loss rate: 0.72%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-07-10 15:14:12

End at: 2018-07-10 15:14:42

Local clock offset: -0.065 ms

Remote clock offset: 0.024 ms

Below is generated by plot.py at 2018-07-10 19:06:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.66 Mbit/s

95th percentile per-packet one-way delay: 86.465 ms

Loss rate: 1.14%

-- Flow 1:

Average throughput: 49.12 Mbit/s

95th percentile per-packet one-way delay: 86.485 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 35.75 Mbit/s

95th percentile per-packet one-way delay: 86.443 ms

Loss rate: 1.15%

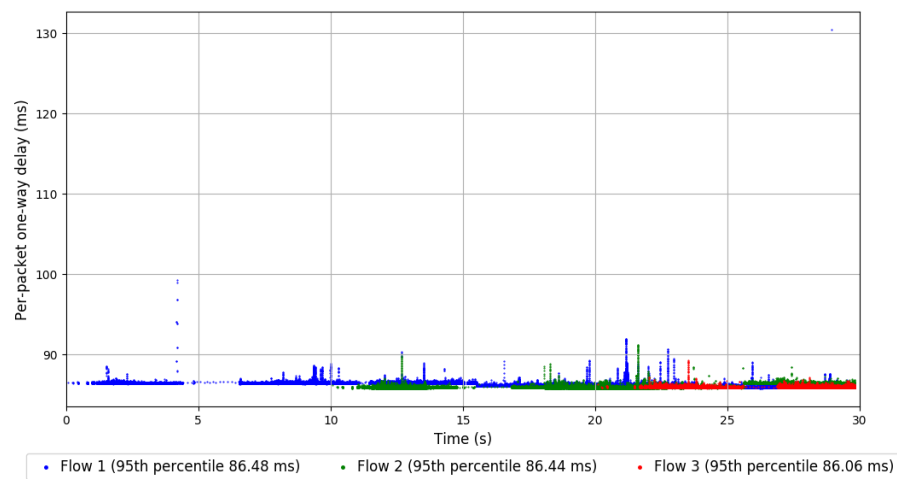
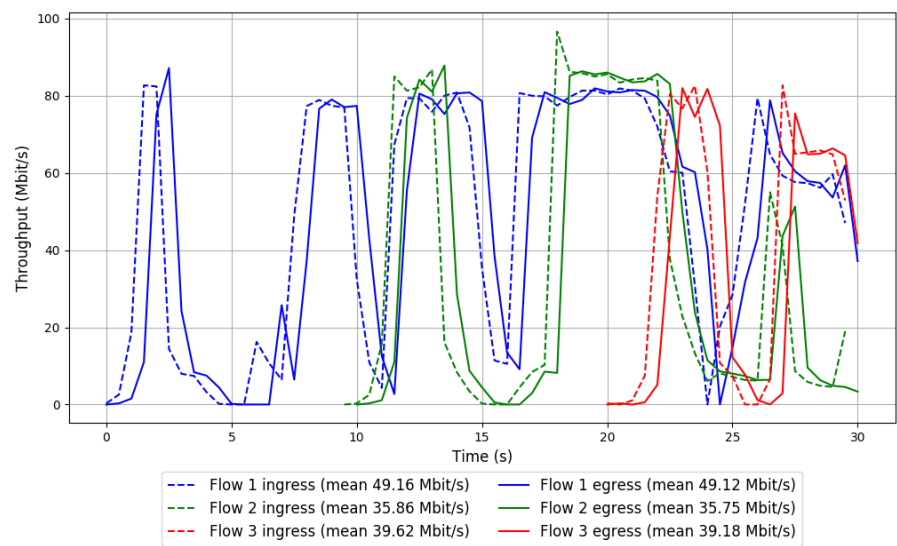
-- Flow 3:

Average throughput: 39.18 Mbit/s

95th percentile per-packet one-way delay: 86.055 ms

Loss rate: 2.84%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-07-10 15:38:56

End at: 2018-07-10 15:39:26

Local clock offset: -0.02 ms

Remote clock offset: 0.053 ms

Below is generated by plot.py at 2018-07-10 19:06:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 100.49 Mbit/s

95th percentile per-packet one-way delay: 86.491 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 54.90 Mbit/s

95th percentile per-packet one-way delay: 86.269 ms

Loss rate: 0.87%

-- Flow 2:

Average throughput: 61.08 Mbit/s

95th percentile per-packet one-way delay: 86.150 ms

Loss rate: 0.51%

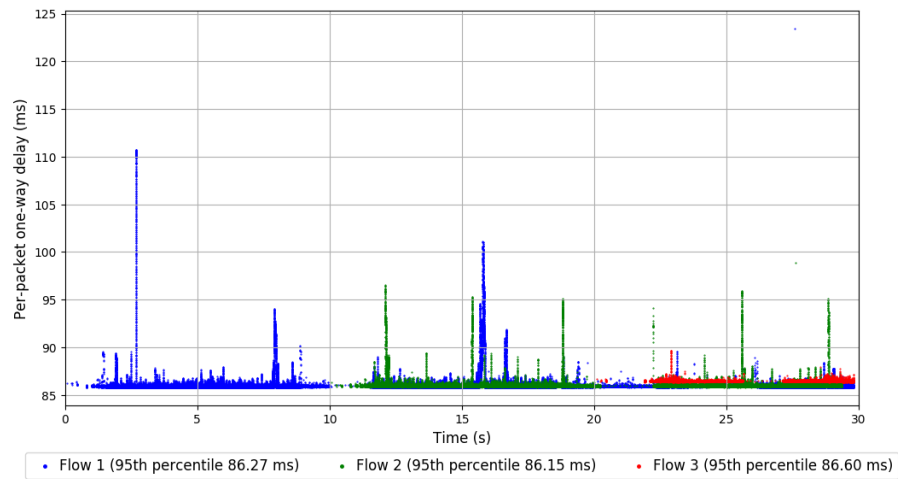
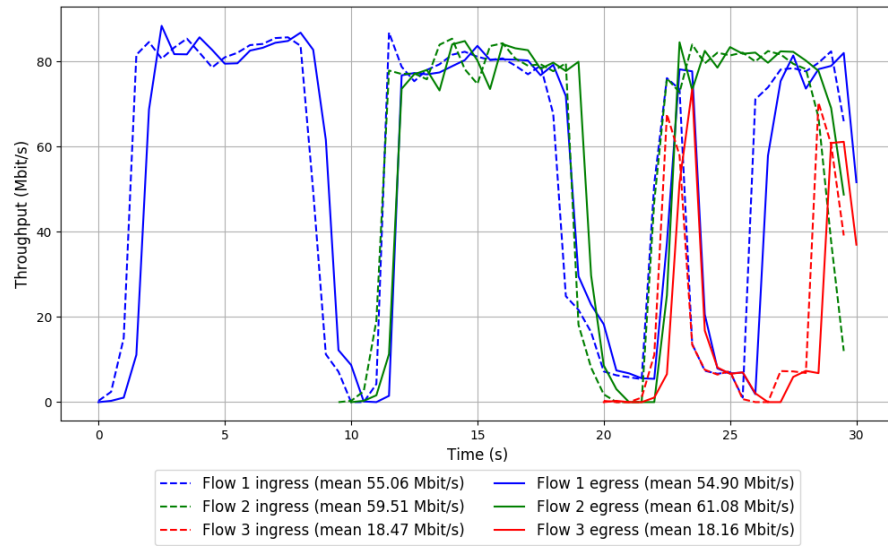
-- Flow 3:

Average throughput: 18.16 Mbit/s

95th percentile per-packet one-way delay: 86.601 ms

Loss rate: 3.38%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-07-10 16:03:37

End at: 2018-07-10 16:04:07

Local clock offset: -0.057 ms

Remote clock offset: 0.045 ms

Below is generated by plot.py at 2018-07-10 19:06:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 98.42 Mbit/s

95th percentile per-packet one-way delay: 86.515 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 58.03 Mbit/s

95th percentile per-packet one-way delay: 86.473 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 30.44 Mbit/s

95th percentile per-packet one-way delay: 86.604 ms

Loss rate: 0.82%

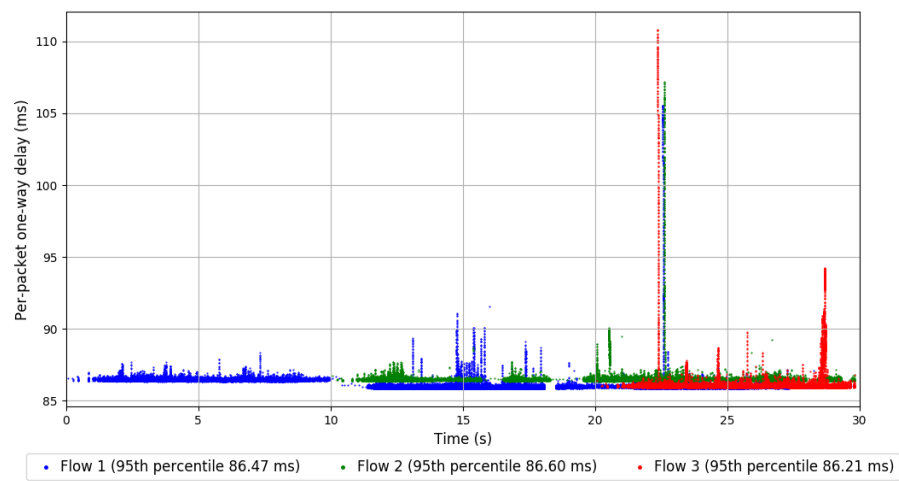
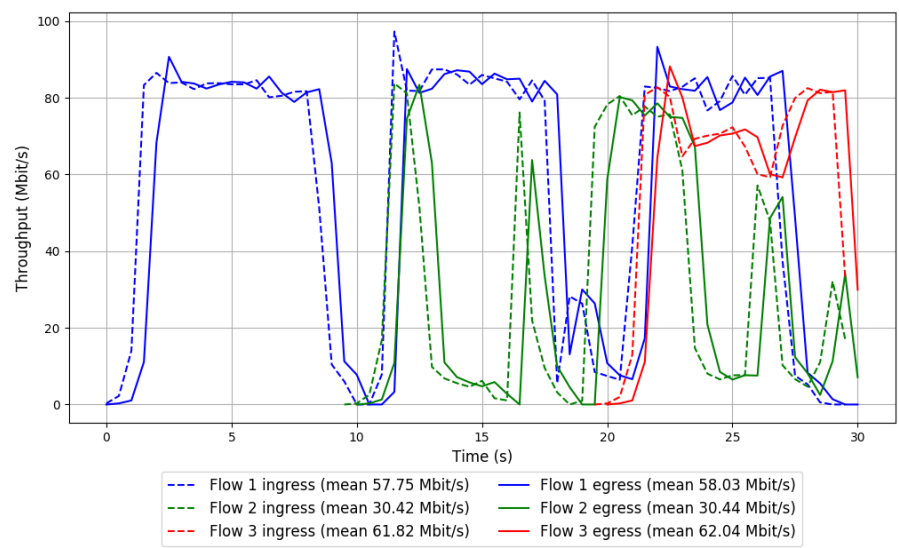
-- Flow 3:

Average throughput: 62.04 Mbit/s

95th percentile per-packet one-way delay: 86.208 ms

Loss rate: 1.39%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-07-10 16:28:03

End at: 2018-07-10 16:28:33

Local clock offset: 0.0 ms

Remote clock offset: 0.018 ms

Below is generated by plot.py at 2018-07-10 19:06:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 106.06 Mbit/s

95th percentile per-packet one-way delay: 86.550 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 61.89 Mbit/s

95th percentile per-packet one-way delay: 86.582 ms

Loss rate: 0.85%

-- Flow 2:

Average throughput: 49.99 Mbit/s

95th percentile per-packet one-way delay: 86.117 ms

Loss rate: 0.15%

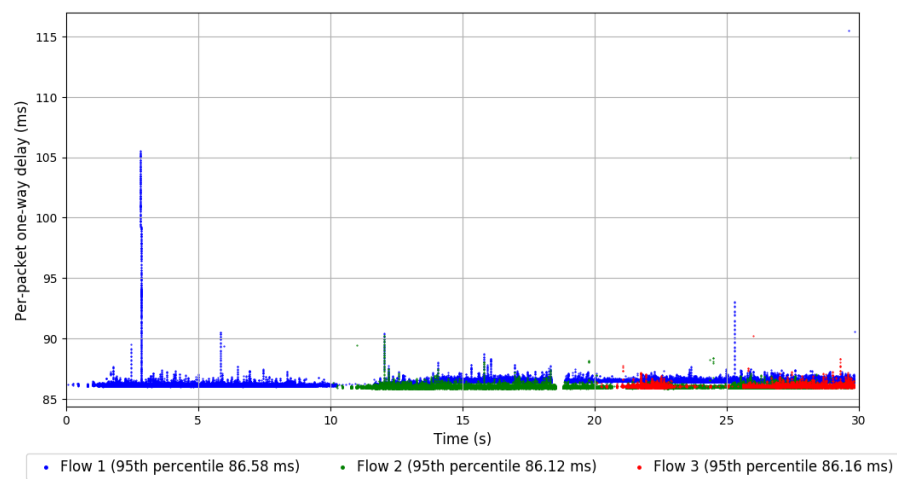
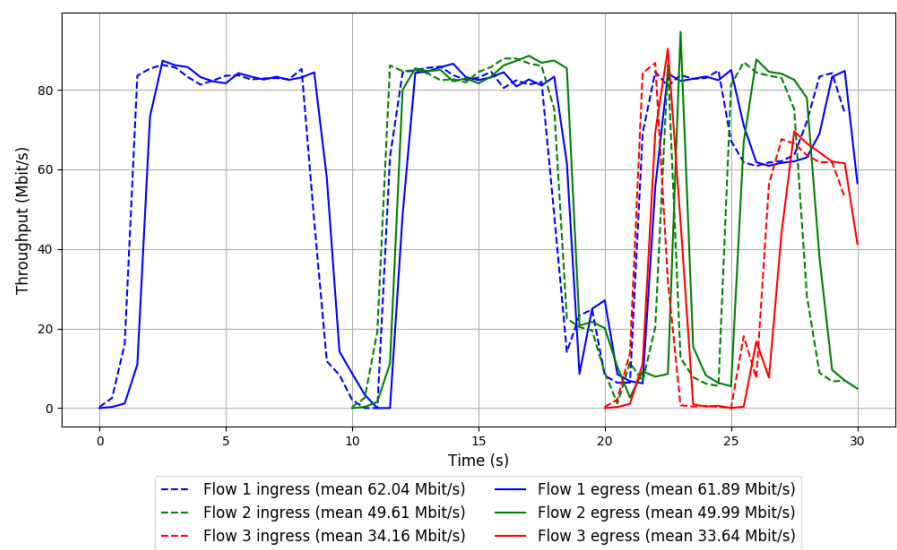
-- Flow 3:

Average throughput: 33.64 Mbit/s

95th percentile per-packet one-way delay: 86.163 ms

Loss rate: 3.33%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-07-10 16:52:23

End at: 2018-07-10 16:52:53

Local clock offset: 0.072 ms

Remote clock offset: 0.062 ms

Below is generated by plot.py at 2018-07-10 19:06:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 99.70 Mbit/s

95th percentile per-packet one-way delay: 86.288 ms

Loss rate: 0.94%

-- Flow 1:

Average throughput: 51.84 Mbit/s

95th percentile per-packet one-way delay: 86.327 ms

Loss rate: 0.90%

-- Flow 2:

Average throughput: 60.57 Mbit/s

95th percentile per-packet one-way delay: 86.194 ms

Loss rate: 0.22%

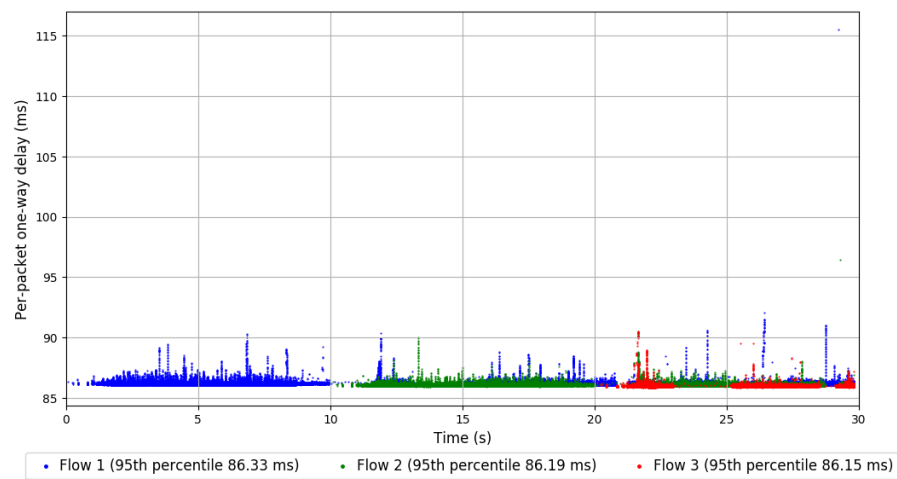
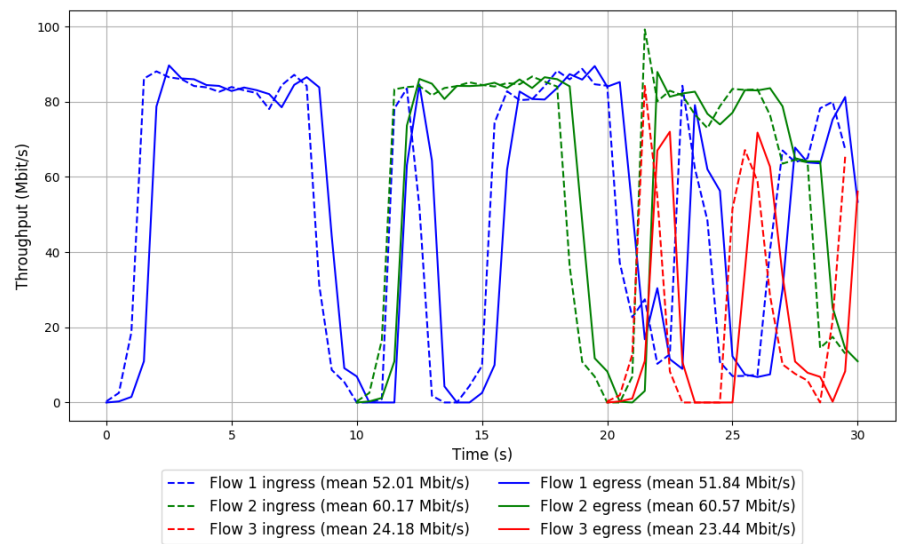
-- Flow 3:

Average throughput: 23.44 Mbit/s

95th percentile per-packet one-way delay: 86.152 ms

Loss rate: 4.74%

Run 10: Report of QUIC Cubic — Data Link

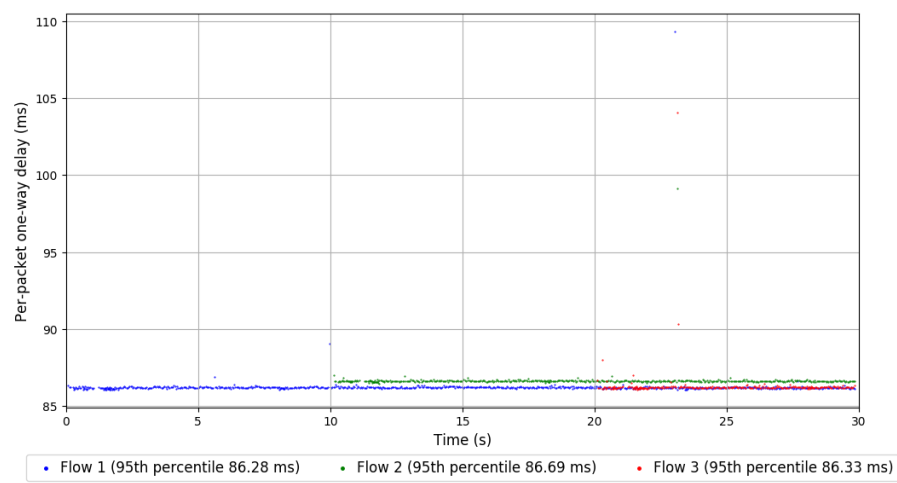
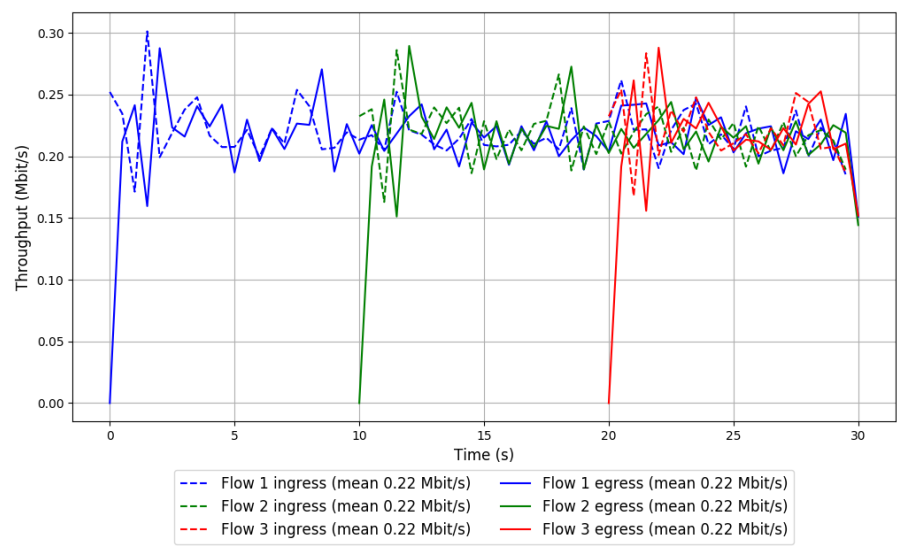


```
Run 1: Statistics of SReAM

Start at: 2018-07-10 13:17:36
End at: 2018-07-10 13:18:06
Local clock offset: 0.088 ms
Remote clock offset: -0.026 ms

# Below is generated by plot.py at 2018-07-10 19:06:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.660 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.277 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.694 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.328 ms
Loss rate: 1.50%
```


Run 1: Report of SReAM — Data Link

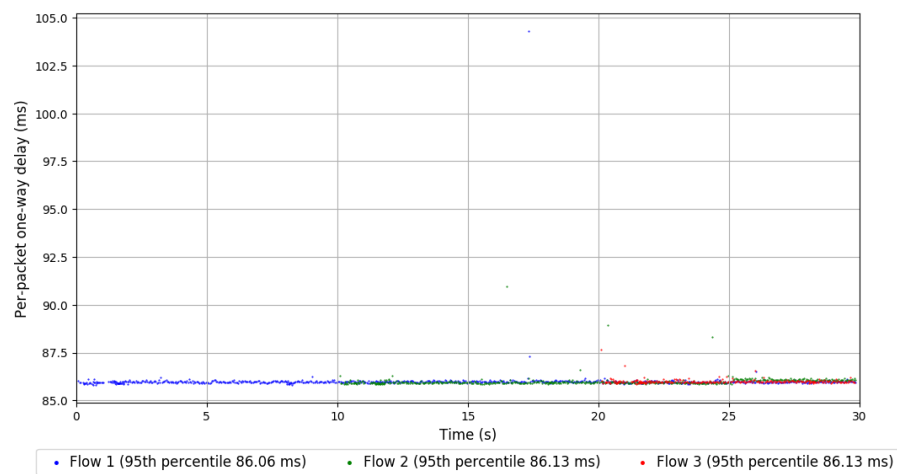
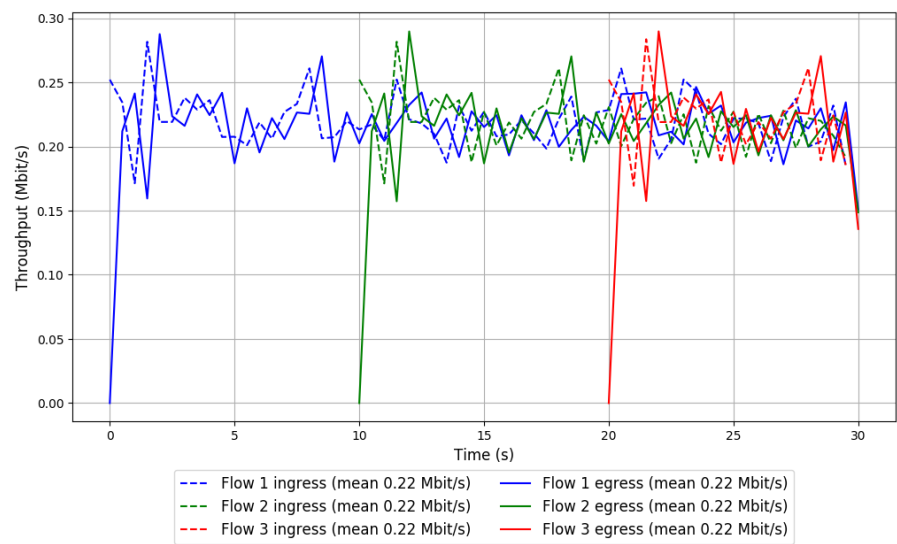


Run 2: Statistics of SReAM

Start at: 2018-07-10 13:41:42
End at: 2018-07-10 13:42:12
Local clock offset: -0.126 ms
Remote clock offset: -0.029 ms

Below is generated by plot.py at 2018-07-10 19:06:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.095 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.055 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.129 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.131 ms
Loss rate: 1.85%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-07-10 14:06:17

End at: 2018-07-10 14:06:47

Local clock offset: -0.025 ms

Remote clock offset: 0.009 ms

Below is generated by plot.py at 2018-07-10 19:06:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 86.632 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.650 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.578 ms

Loss rate: 0.82%

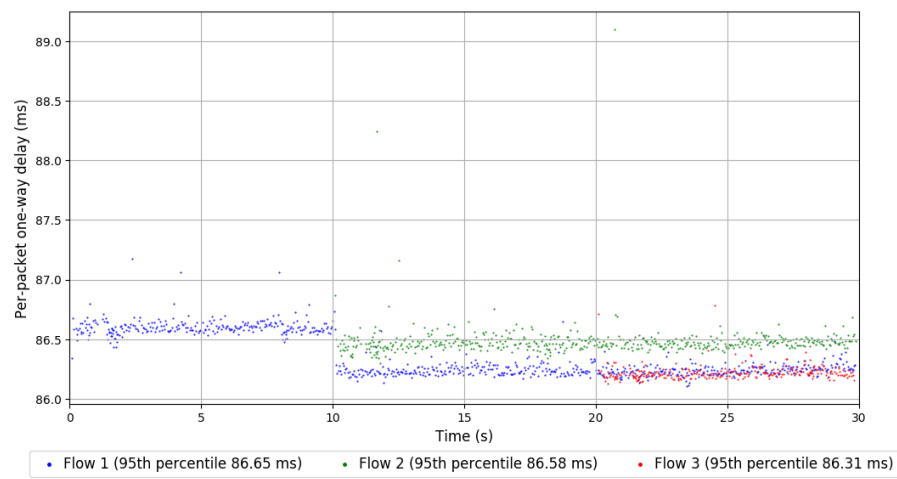
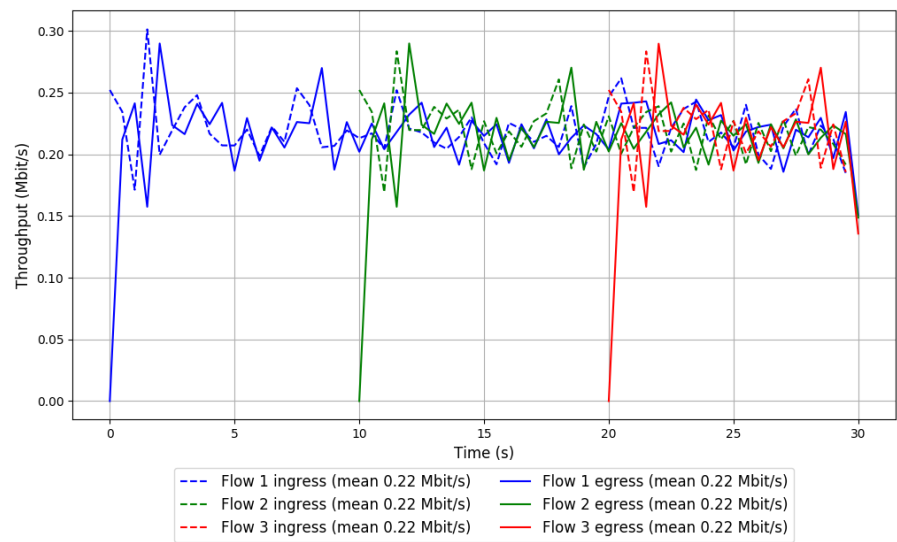
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.308 ms

Loss rate: 1.85%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-07-10 14:31:01

End at: 2018-07-10 14:31:31

Local clock offset: -0.037 ms

Remote clock offset: 0.037 ms

Below is generated by plot.py at 2018-07-10 19:06:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 86.575 ms

Loss rate: 0.98%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.608 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.097 ms

Loss rate: 1.04%

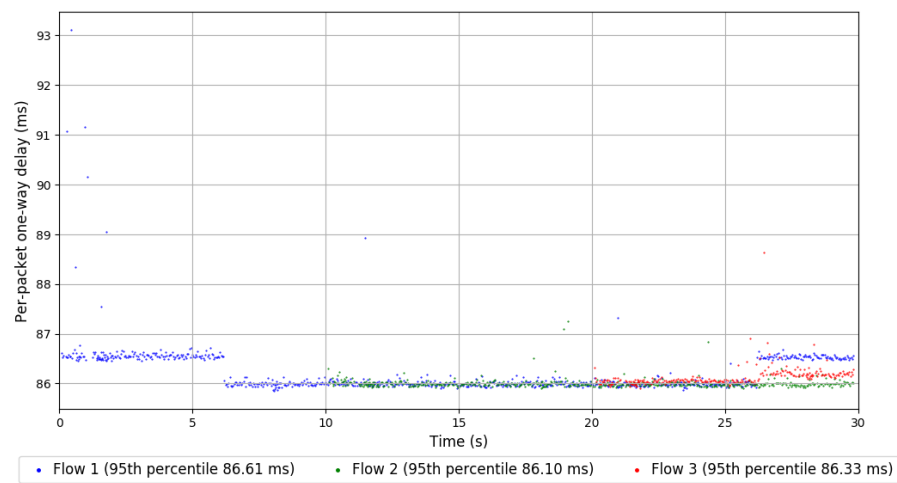
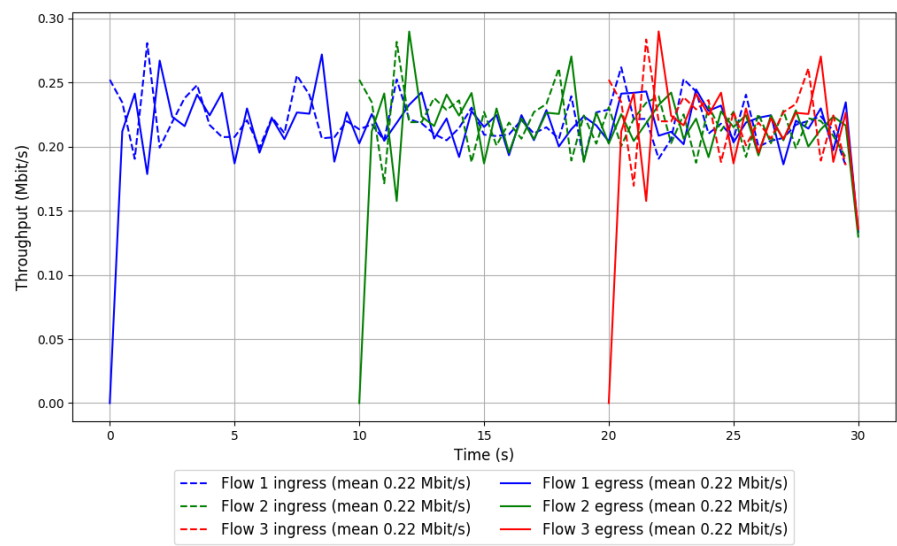
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.333 ms

Loss rate: 1.85%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-07-10 14:55:31

End at: 2018-07-10 14:56:01

Local clock offset: 0.091 ms

Remote clock offset: 0.063 ms

Below is generated by plot.py at 2018-07-10 19:06:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 86.691 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.733 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.386 ms

Loss rate: 0.82%

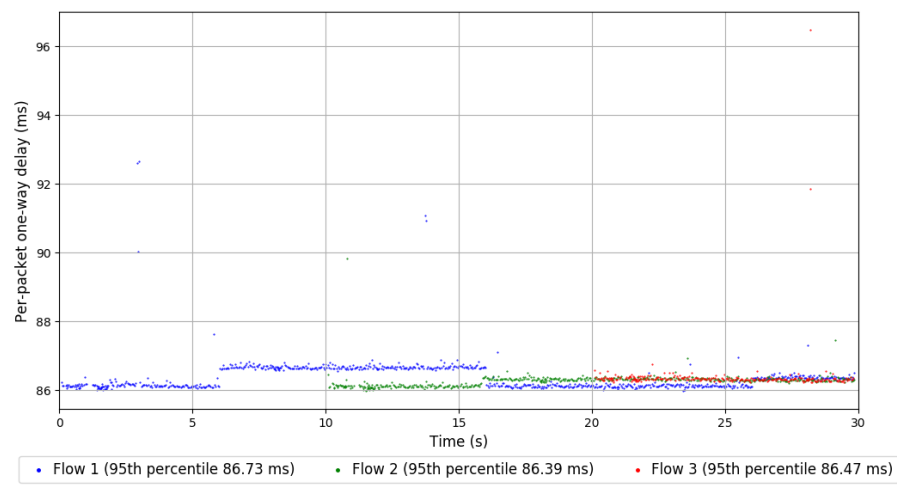
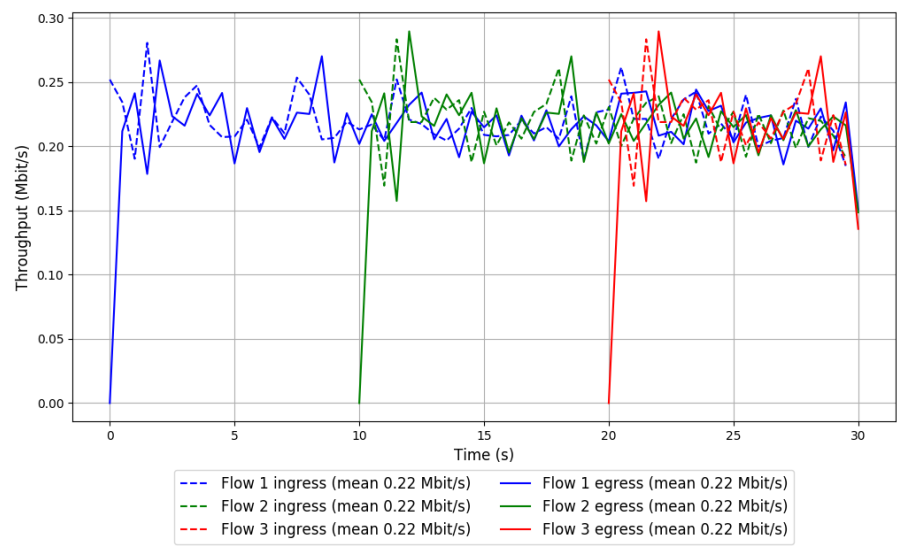
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.475 ms

Loss rate: 1.85%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-07-10 15:20:15

End at: 2018-07-10 15:20:45

Local clock offset: 0.064 ms

Remote clock offset: 0.009 ms

Below is generated by plot.py at 2018-07-10 19:06:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 86.746 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.495 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.769 ms

Loss rate: 1.04%

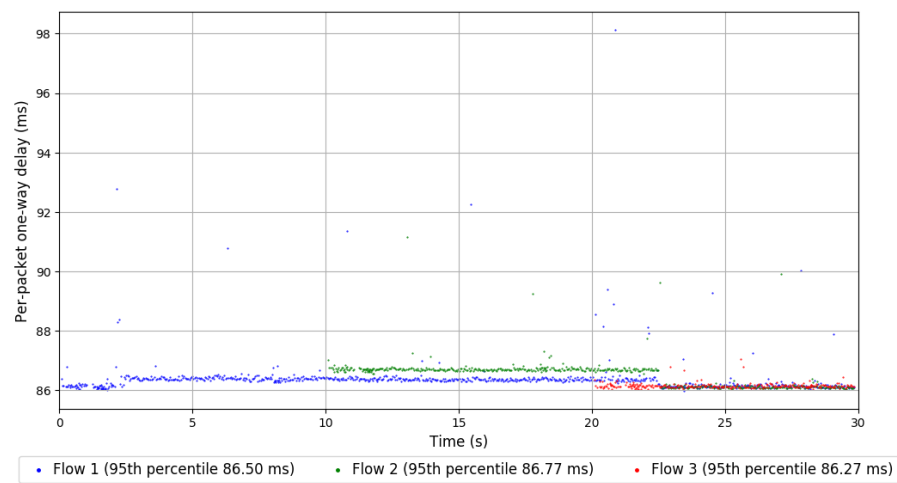
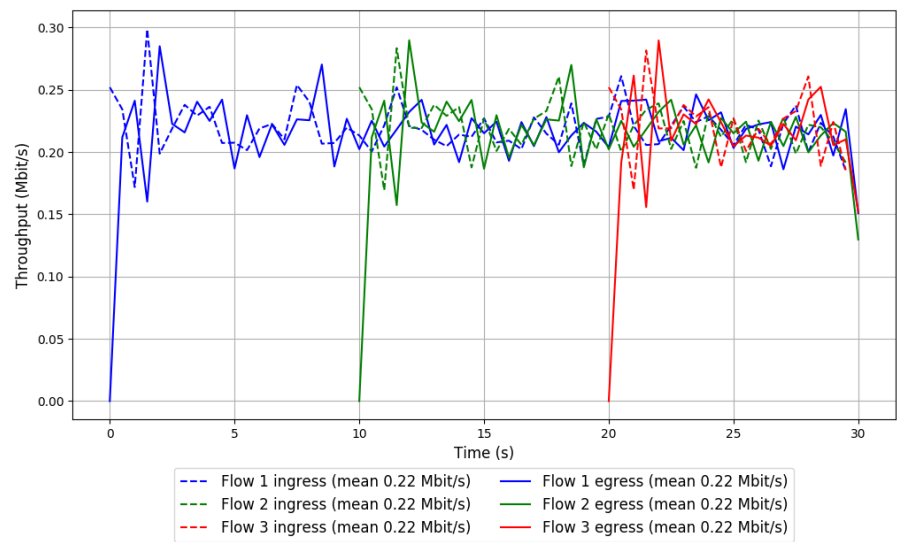
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.272 ms

Loss rate: 1.85%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SReAM

Start at: 2018-07-10 15:45:02

End at: 2018-07-10 15:45:32

Local clock offset: 0.073 ms

Remote clock offset: 0.016 ms

Below is generated by plot.py at 2018-07-10 19:06:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 86.735 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.494 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.810 ms

Loss rate: 1.04%

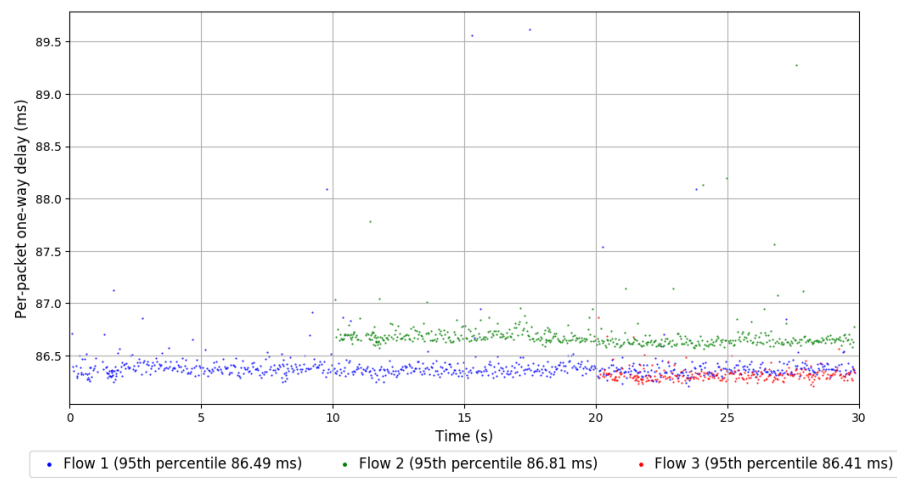
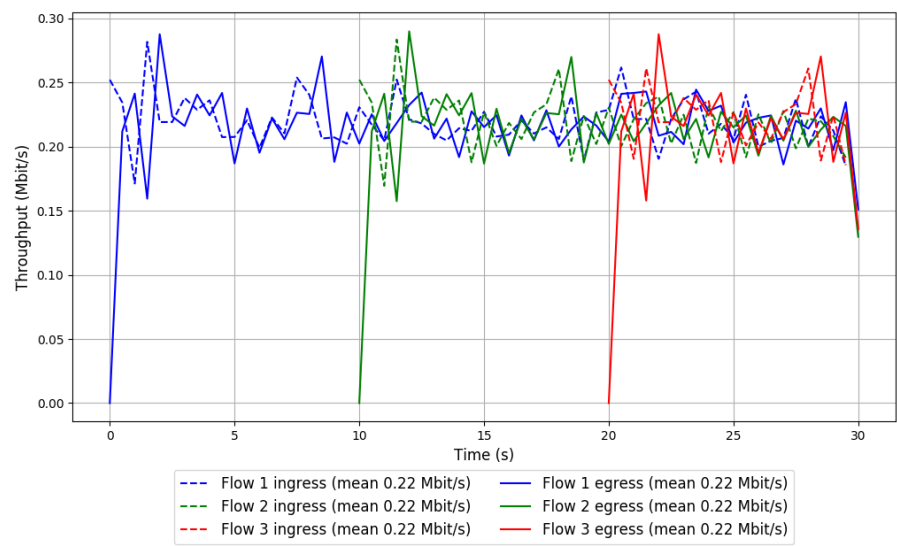
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.409 ms

Loss rate: 1.85%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-07-10 16:09:36

End at: 2018-07-10 16:10:06

Local clock offset: 0.157 ms

Remote clock offset: 0.015 ms

Below is generated by plot.py at 2018-07-10 19:06:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 86.805 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.397 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.866 ms

Loss rate: 1.04%

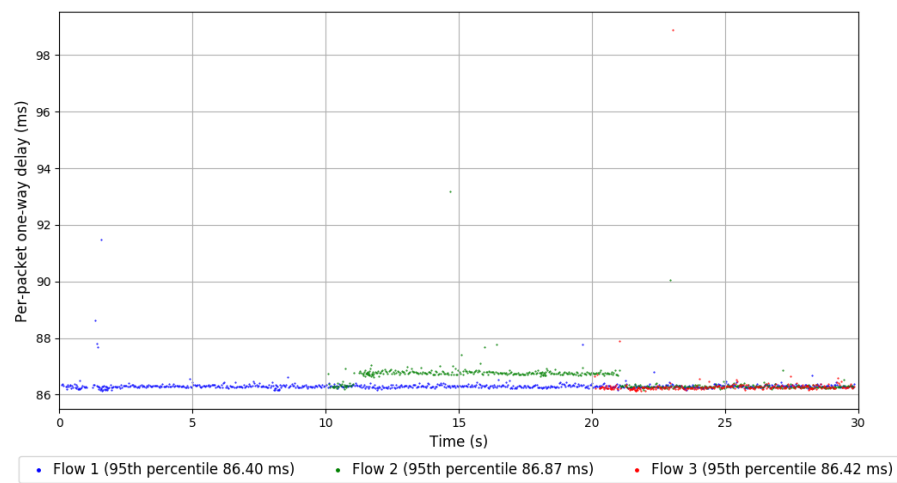
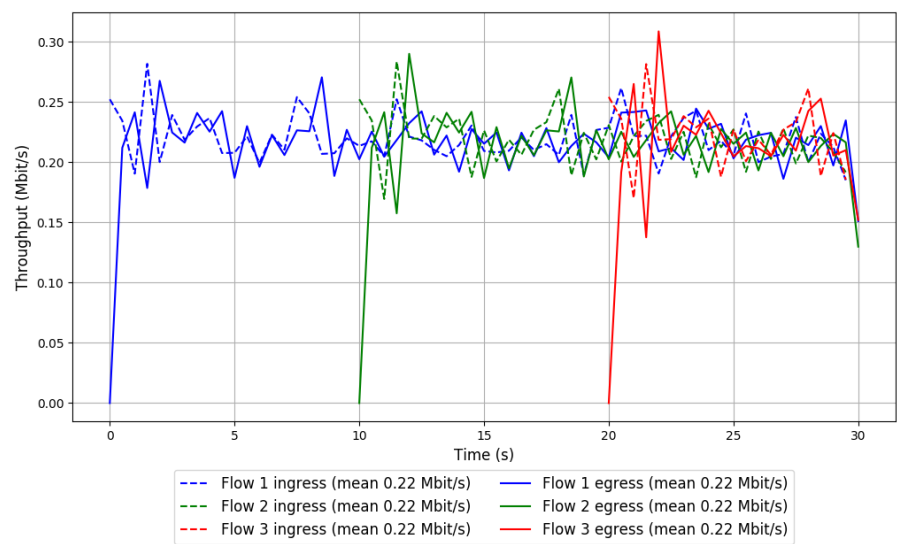
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.420 ms

Loss rate: 1.85%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-07-10 16:34:07

End at: 2018-07-10 16:34:37

Local clock offset: 0.091 ms

Remote clock offset: 0.05 ms

Below is generated by plot.py at 2018-07-10 19:06:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 87.255 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.733 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 88.317 ms

Loss rate: 1.04%

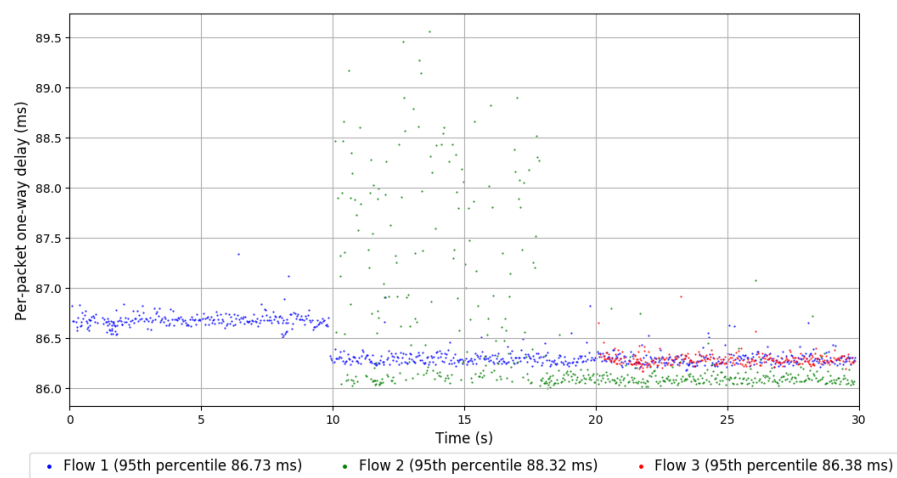
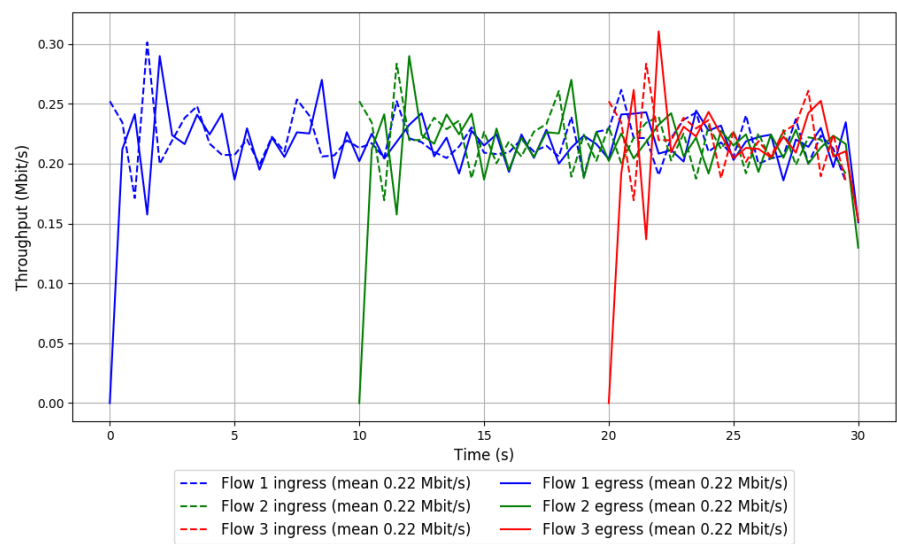
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.375 ms

Loss rate: 1.85%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SCReAM

Start at: 2018-07-10 16:58:24

End at: 2018-07-10 16:58:54

Local clock offset: 0.056 ms

Remote clock offset: 0.066 ms

Below is generated by plot.py at 2018-07-10 19:06:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 86.603 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.399 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.212 ms

Loss rate: 1.04%

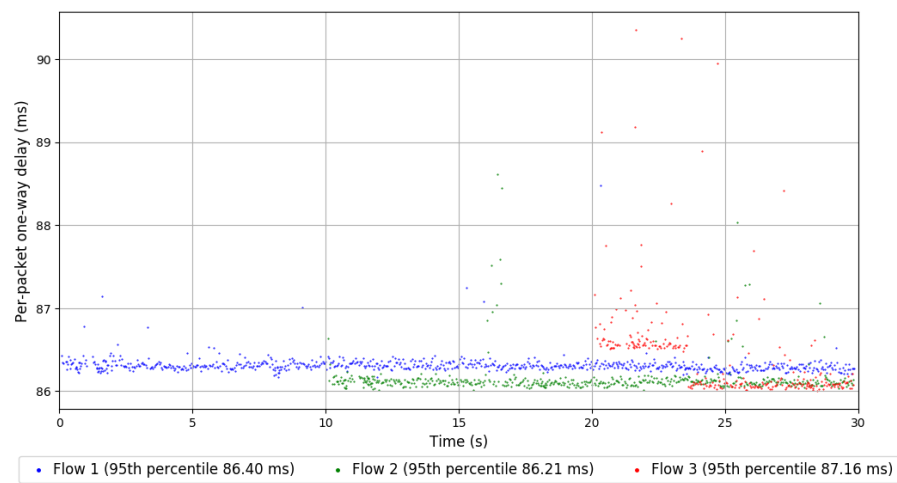
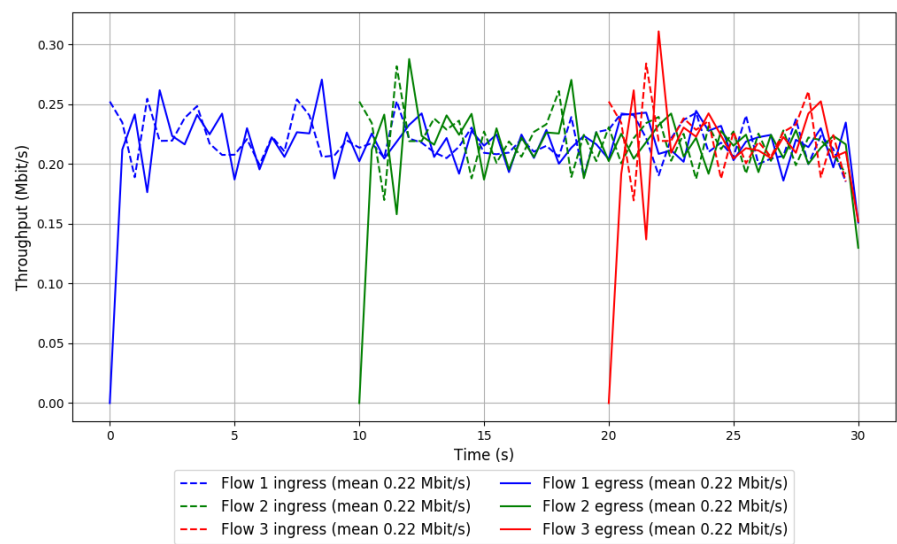
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.157 ms

Loss rate: 1.85%

Run 10: Report of SReAM — Data Link

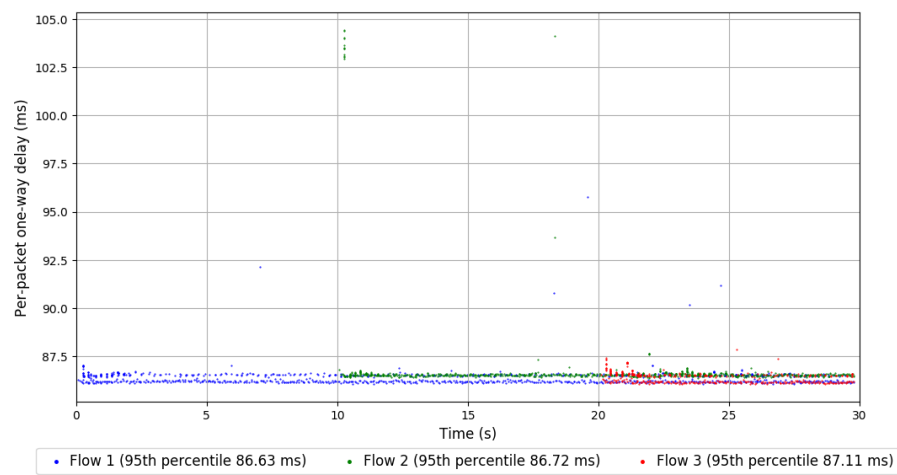
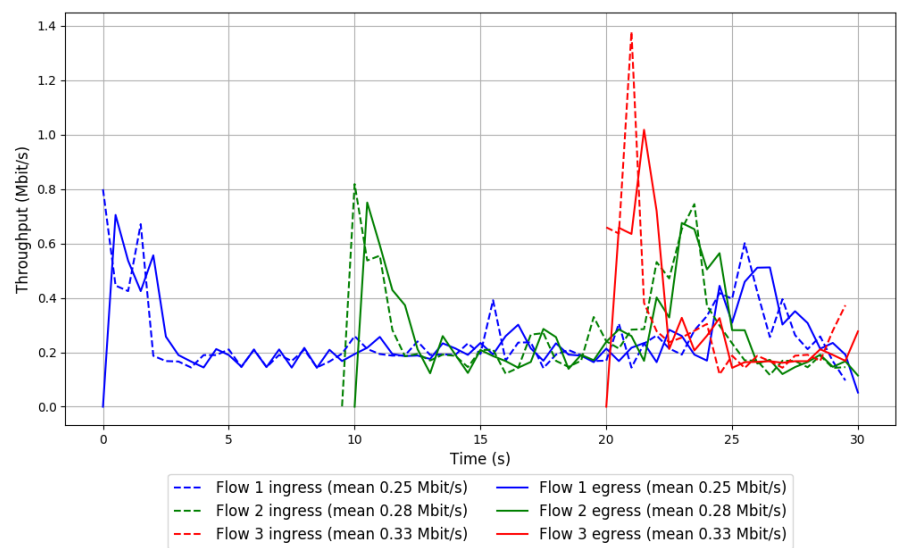


Run 1: Statistics of Sprout

Start at: 2018-07-10 13:21:41
End at: 2018-07-10 13:22:11
Local clock offset: 0.031 ms
Remote clock offset: -0.003 ms

Below is generated by plot.py at 2018-07-10 19:06:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 86.698 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 86.632 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 86.720 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 87.114 ms
Loss rate: 3.20%

Run 1: Report of Sprout — Data Link

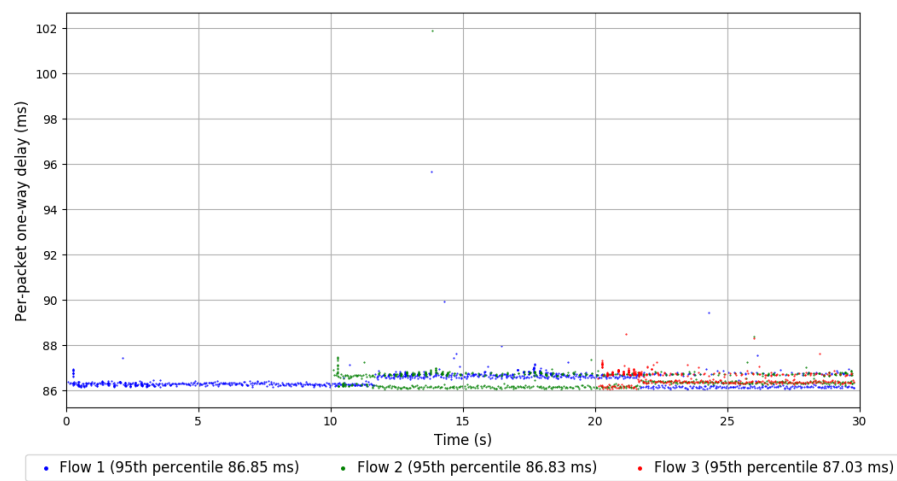
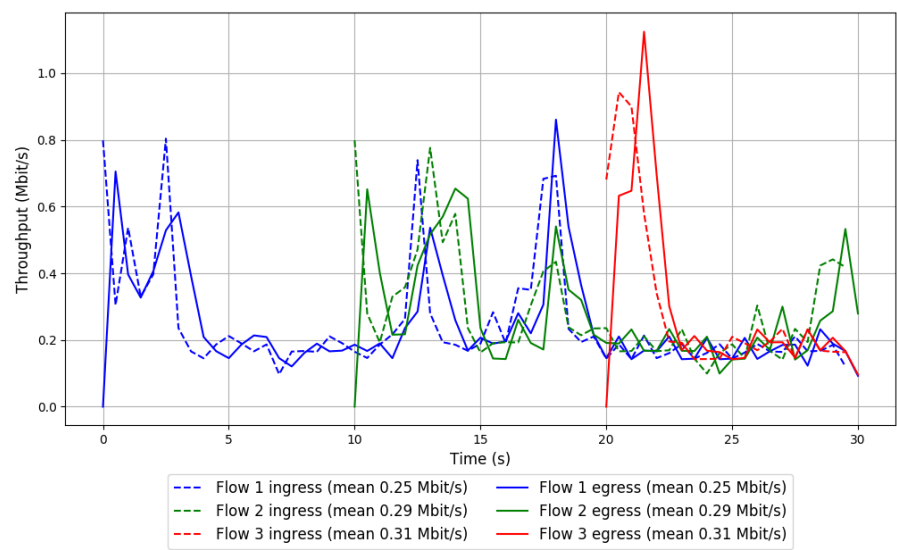


Run 2: Statistics of Sprout

Start at: 2018-07-10 13:45:45
End at: 2018-07-10 13:46:15
Local clock offset: 0.139 ms
Remote clock offset: -0.003 ms

Below is generated by plot.py at 2018-07-10 19:06:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 86.878 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 86.849 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 86.834 ms
Loss rate: 1.64%
-- Flow 3:
Average throughput: 0.31 Mbit/s
95th percentile per-packet one-way delay: 87.026 ms
Loss rate: 1.51%

Run 2: Report of Sprout — Data Link

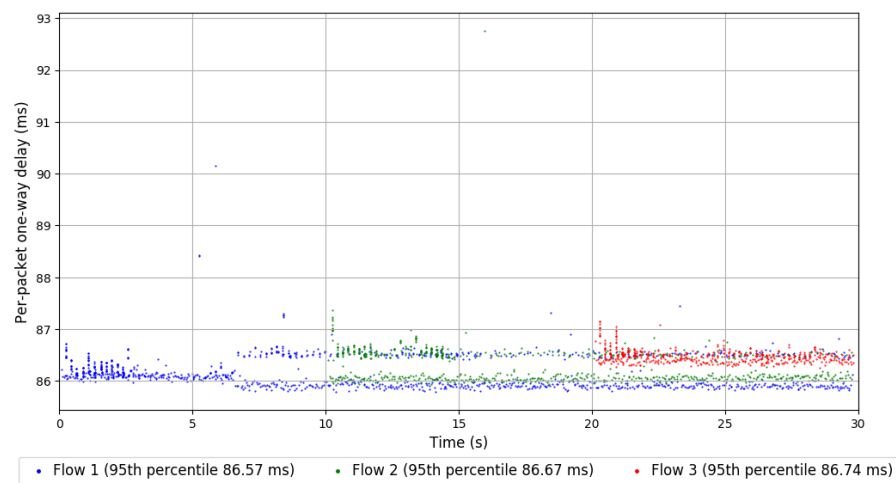
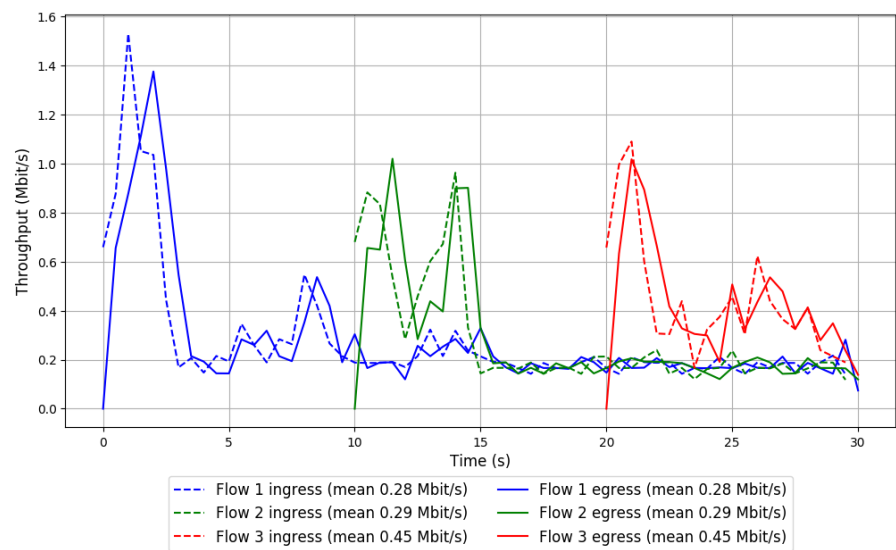


Run 3: Statistics of Sprout

Start at: 2018-07-10 14:10:21
End at: 2018-07-10 14:10:51
Local clock offset: -0.051 ms
Remote clock offset: 0.031 ms

```
# Below is generated by plot.py at 2018-07-10 19:06:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.62 Mbit/s
95th percentile per-packet one-way delay: 86.645 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 86.573 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 86.674 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 86.739 ms
Loss rate: 0.59%
```


Run 3: Report of Sprout — Data Link

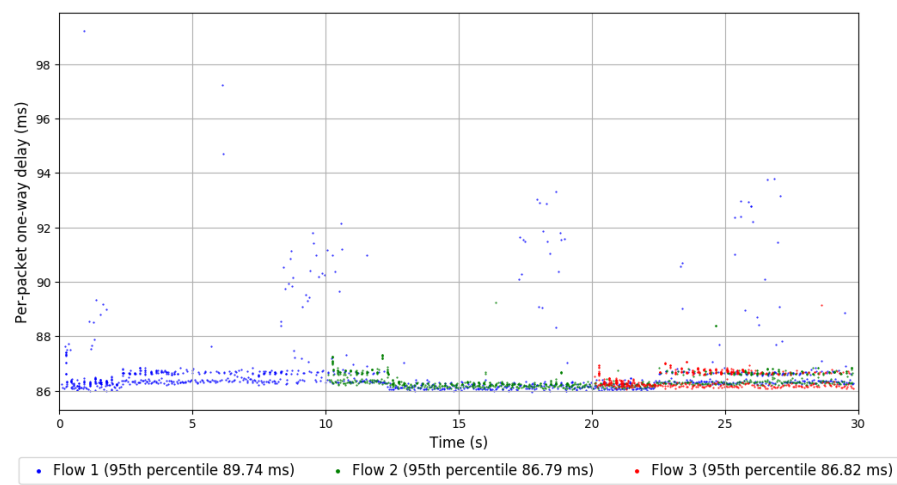
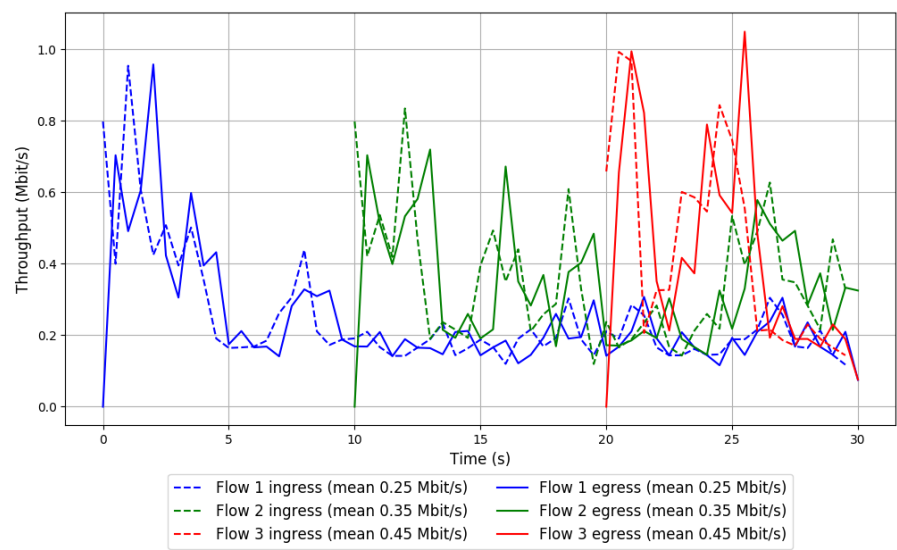


Run 4: Statistics of Sprout

Start at: 2018-07-10 14:35:05
End at: 2018-07-10 14:35:35
Local clock offset: 0.088 ms
Remote clock offset: 0.03 ms

```
# Below is generated by plot.py at 2018-07-10 19:06:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.63 Mbit/s
95th percentile per-packet one-way delay: 87.067 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 89.739 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 86.787 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 86.823 ms
Loss rate: 0.78%
```

Run 4: Report of Sprout — Data Link

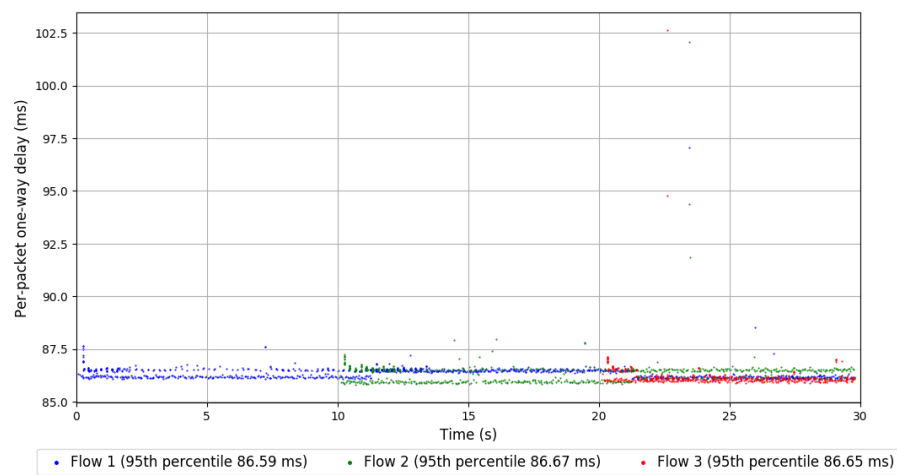
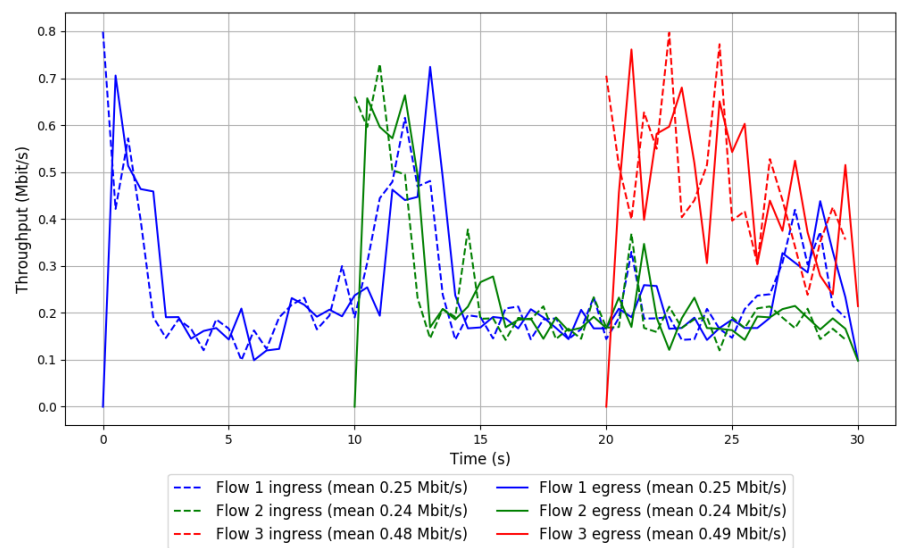


Run 5: Statistics of Sprout

Start at: 2018-07-10 14:59:36
End at: 2018-07-10 15:00:06
Local clock offset: -0.095 ms
Remote clock offset: 0.02 ms

Below is generated by plot.py at 2018-07-10 19:06:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 86.632 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 86.589 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 86.673 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 0.49 Mbit/s
95th percentile per-packet one-way delay: 86.651 ms
Loss rate: 1.73%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-07-10 15:24:18

End at: 2018-07-10 15:24:48

Local clock offset: 0.219 ms

Remote clock offset: 0.022 ms

Below is generated by plot.py at 2018-07-10 19:06:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 86.936 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 0.27 Mbit/s

95th percentile per-packet one-way delay: 86.941 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 86.927 ms

Loss rate: 0.45%

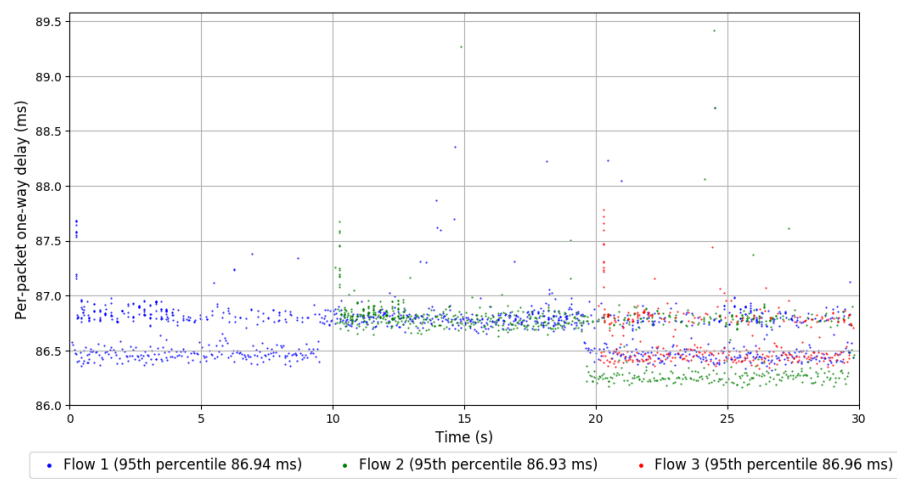
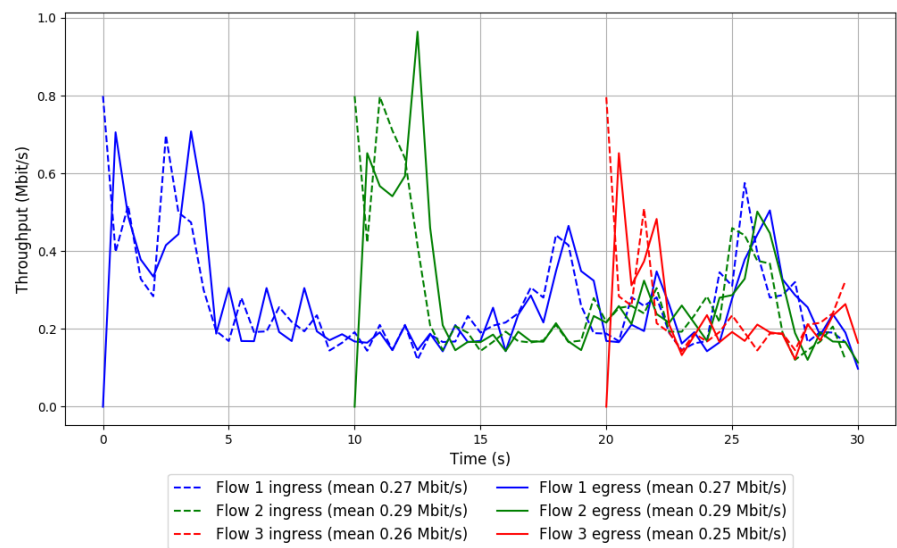
-- Flow 3:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 86.956 ms

Loss rate: 3.19%

Run 6: Report of Sprout — Data Link

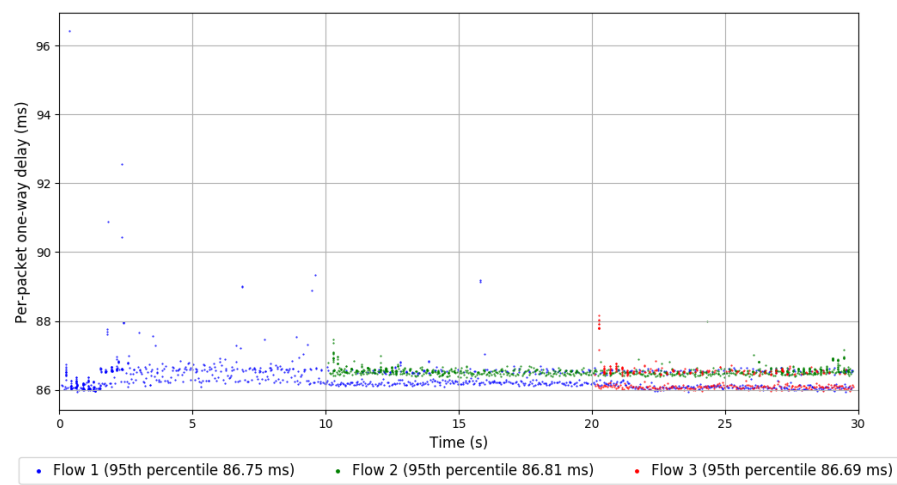
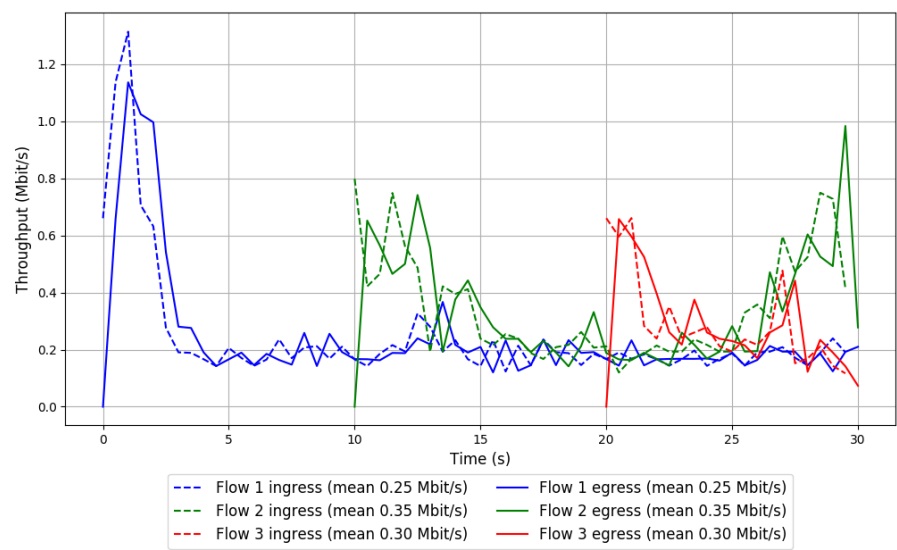


Run 7: Statistics of Sprout

Start at: 2018-07-10 15:49:06
End at: 2018-07-10 15:49:36
Local clock offset: -0.031 ms
Remote clock offset: 0.048 ms

```
# Below is generated by plot.py at 2018-07-10 19:06:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 86.767 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 86.746 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 86.814 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 86.693 ms
Loss rate: 1.15%
```


Run 7: Report of Sprout — Data Link

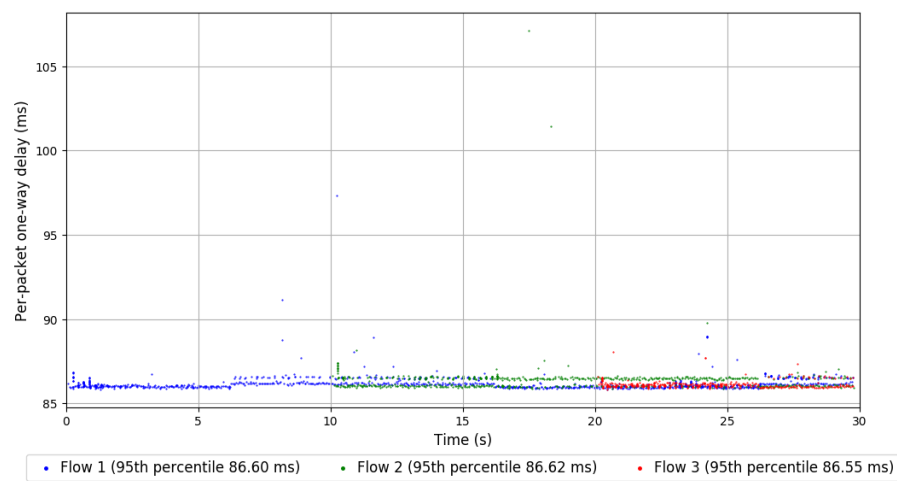
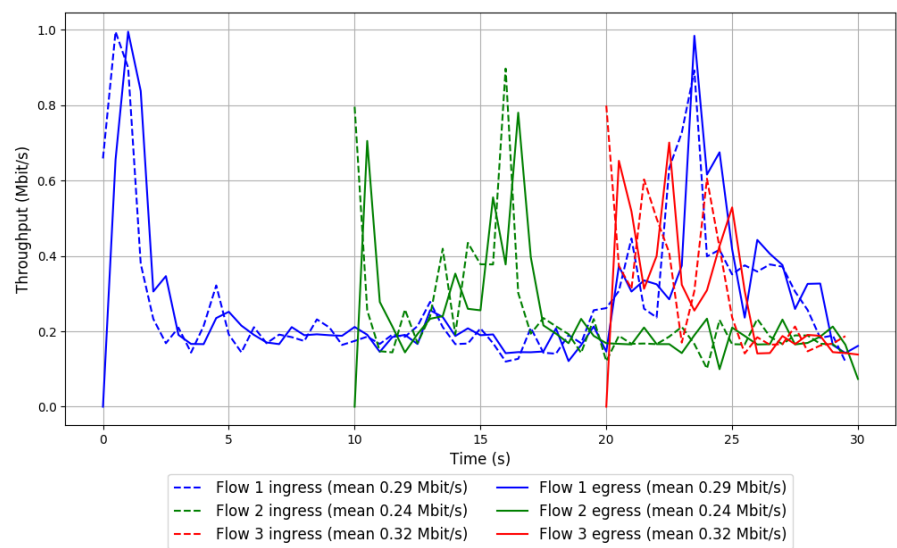


Run 8: Statistics of Sprout

Start at: 2018-07-10 16:13:41
End at: 2018-07-10 16:14:11
Local clock offset: -0.087 ms
Remote clock offset: 0.008 ms

Below is generated by plot.py at 2018-07-10 19:06:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 86.604 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 86.600 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 86.620 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 86.550 ms
Loss rate: 1.51%

Run 8: Report of Sprout — Data Link

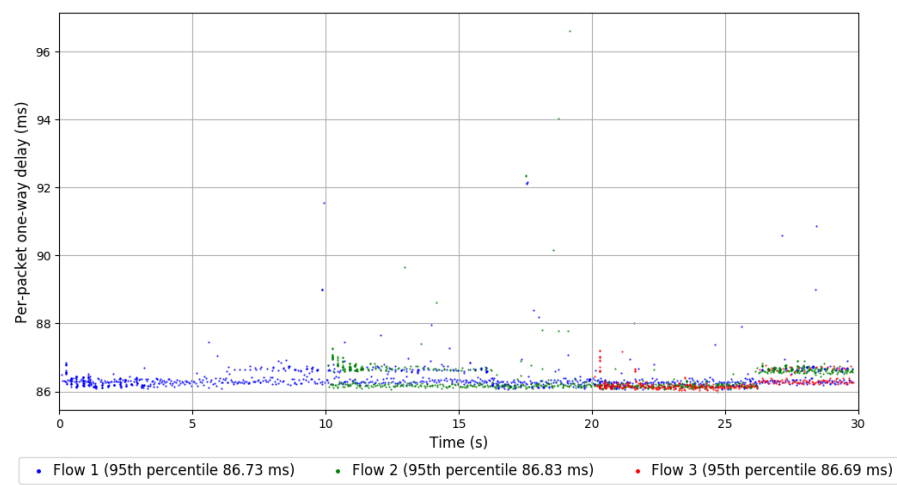
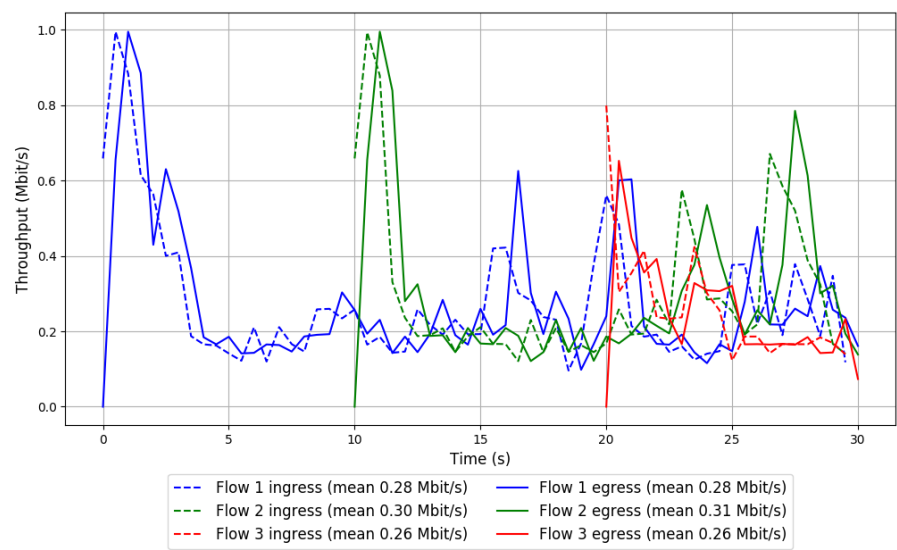


Run 9: Statistics of Sprout

Start at: 2018-07-10 16:38:11
End at: 2018-07-10 16:38:41
Local clock offset: 0.079 ms
Remote clock offset: 0.019 ms

Below is generated by plot.py at 2018-07-10 19:06:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 86.763 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 86.726 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 0.31 Mbit/s
95th percentile per-packet one-way delay: 86.829 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 0.26 Mbit/s
95th percentile per-packet one-way delay: 86.695 ms
Loss rate: 1.33%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-07-10 17:02:26

End at: 2018-07-10 17:02:56

Local clock offset: -0.097 ms

Remote clock offset: 0.051 ms

Below is generated by plot.py at 2018-07-10 19:06:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.60 Mbit/s

95th percentile per-packet one-way delay: 86.642 ms

Loss rate: 1.37%

-- Flow 1:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 86.648 ms

Loss rate: 1.38%

-- Flow 2:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 86.579 ms

Loss rate: 1.19%

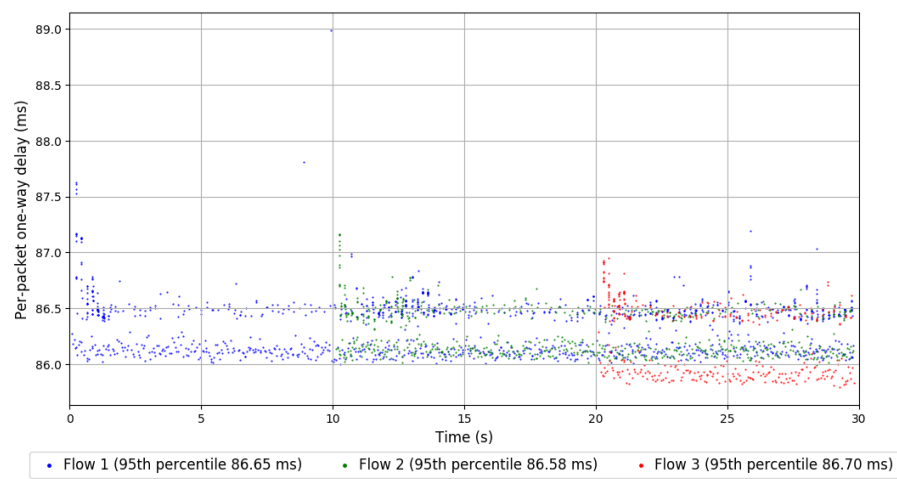
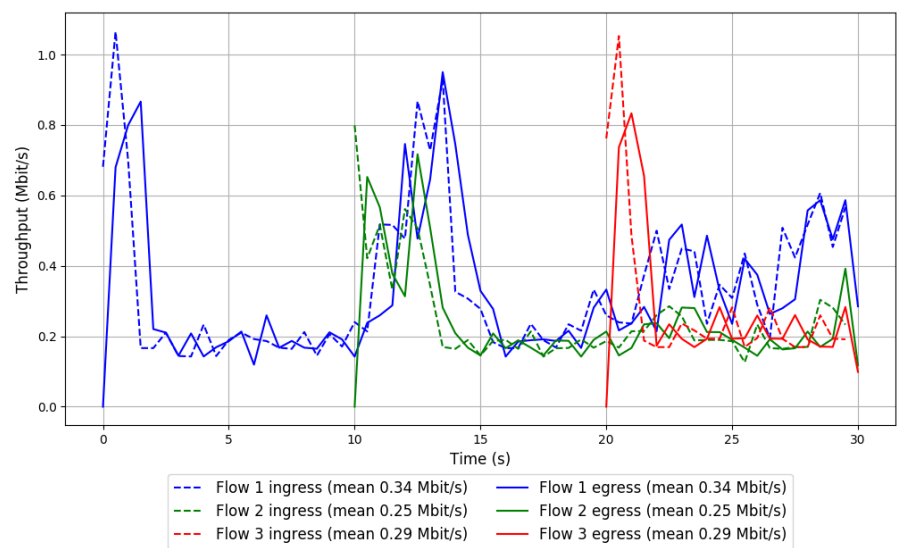
-- Flow 3:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 86.704 ms

Loss rate: 1.63%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2018-07-10 13:27:53

End at: 2018-07-10 13:28:23

Local clock offset: 0.134 ms

Remote clock offset: 0.003 ms

Below is generated by plot.py at 2018-07-10 19:06:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.64 Mbit/s

95th percentile per-packet one-way delay: 93.463 ms

Loss rate: 1.31%

-- Flow 1:

Average throughput: 52.14 Mbit/s

95th percentile per-packet one-way delay: 92.383 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 25.40 Mbit/s

95th percentile per-packet one-way delay: 94.977 ms

Loss rate: 0.72%

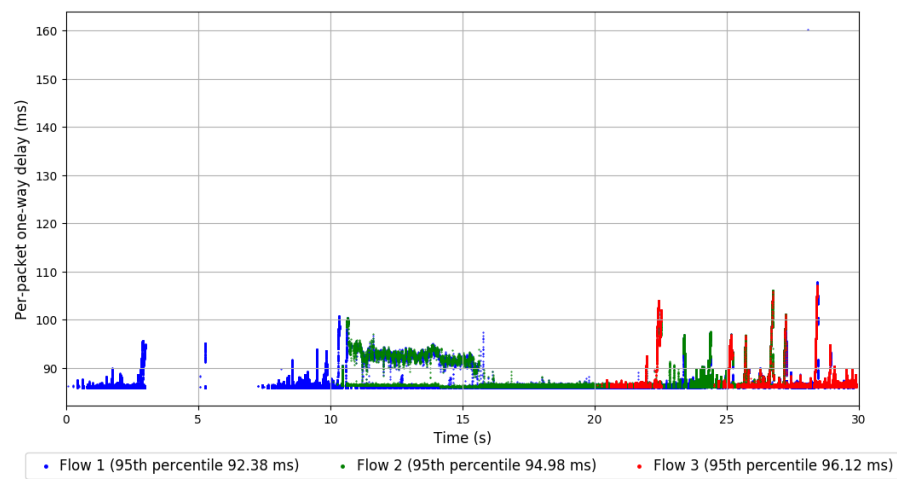
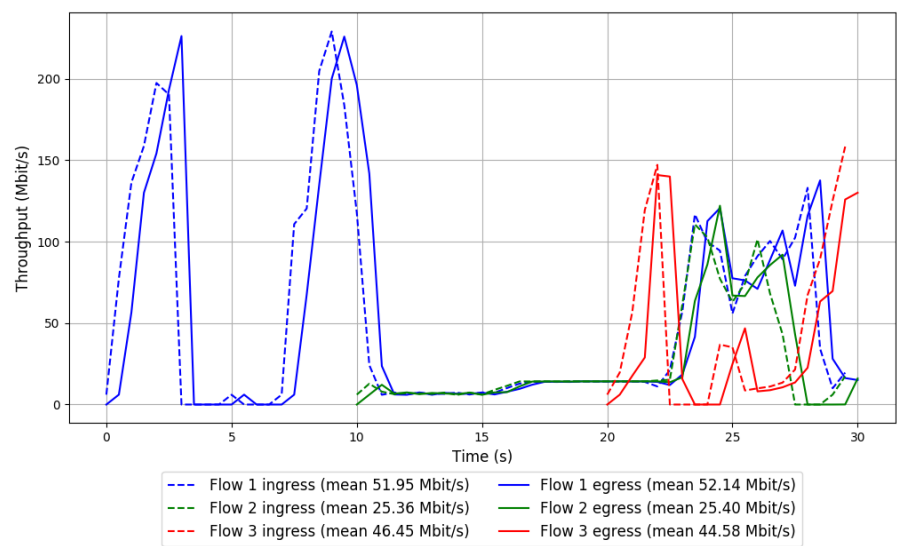
-- Flow 3:

Average throughput: 44.58 Mbit/s

95th percentile per-packet one-way delay: 96.121 ms

Loss rate: 5.68%

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

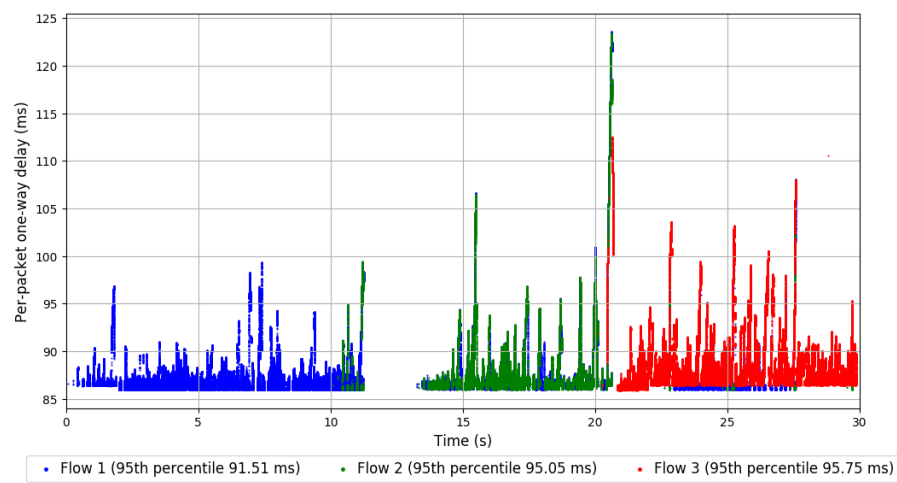
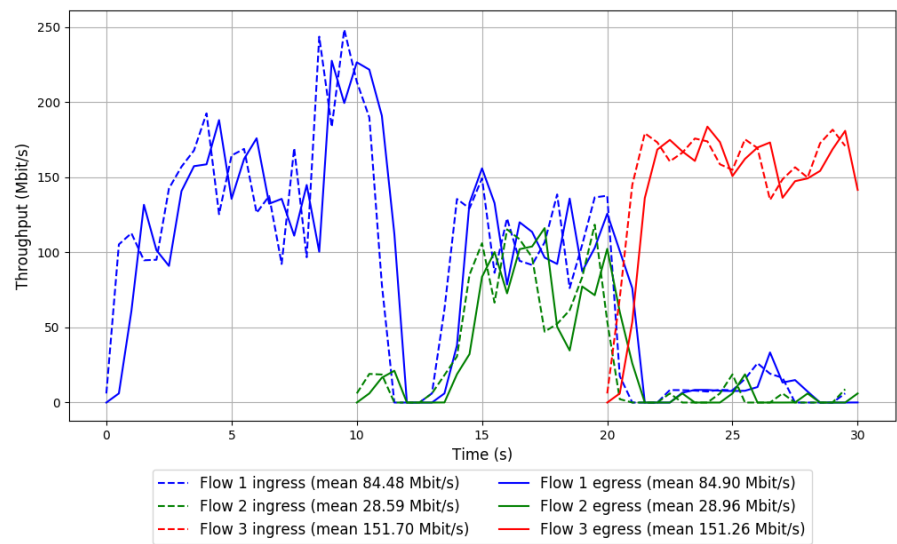


Run 2: Statistics of TaoVA-100x

Start at: 2018-07-10 13:52:05
End at: 2018-07-10 13:52:35
Local clock offset: 0.076 ms
Remote clock offset: -0.009 ms

Below is generated by plot.py at 2018-07-10 19:08:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 153.18 Mbit/s
95th percentile per-packet one-way delay: 93.909 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 84.90 Mbit/s
95th percentile per-packet one-way delay: 91.508 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 28.96 Mbit/s
95th percentile per-packet one-way delay: 95.046 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 151.26 Mbit/s
95th percentile per-packet one-way delay: 95.746 ms
Loss rate: 2.13%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-07-10 14:16:52

End at: 2018-07-10 14:17:22

Local clock offset: -0.034 ms

Remote clock offset: 0.036 ms

Below is generated by plot.py at 2018-07-10 19:10:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 180.87 Mbit/s

95th percentile per-packet one-way delay: 90.965 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 155.46 Mbit/s

95th percentile per-packet one-way delay: 89.891 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 33.53 Mbit/s

95th percentile per-packet one-way delay: 98.063 ms

Loss rate: 0.00%

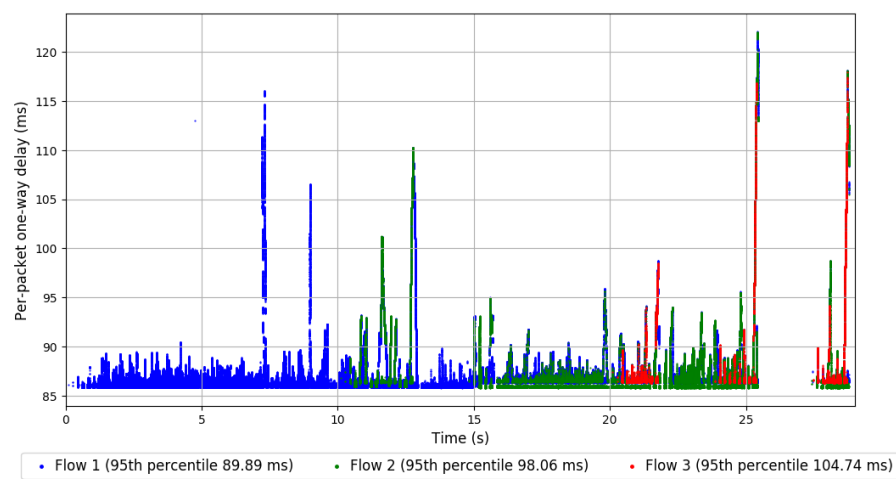
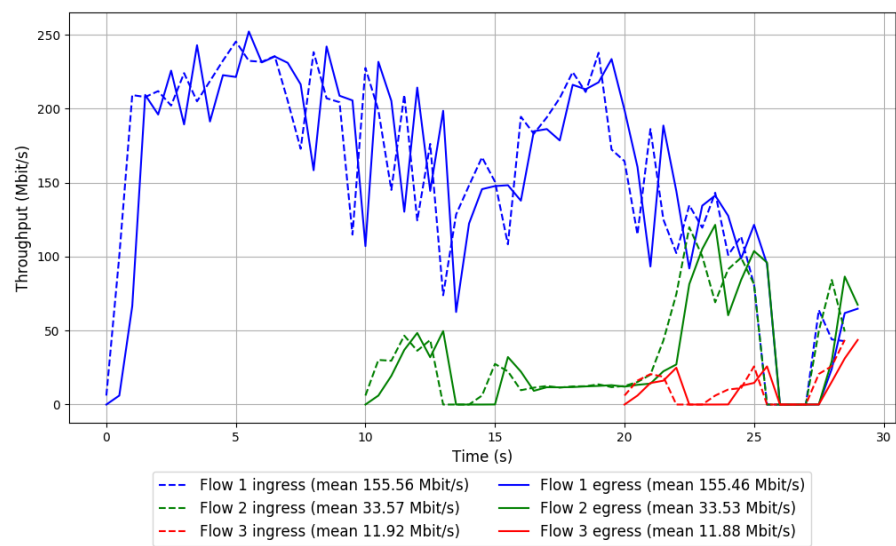
-- Flow 3:

Average throughput: 11.88 Mbit/s

95th percentile per-packet one-way delay: 104.737 ms

Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-07-10 14:41:23

End at: 2018-07-10 14:41:53

Local clock offset: 0.041 ms

Remote clock offset: 0.013 ms

Below is generated by plot.py at 2018-07-10 19:10:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 141.91 Mbit/s

95th percentile per-packet one-way delay: 93.160 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 103.53 Mbit/s

95th percentile per-packet one-way delay: 92.378 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 35.41 Mbit/s

95th percentile per-packet one-way delay: 95.449 ms

Loss rate: 0.88%

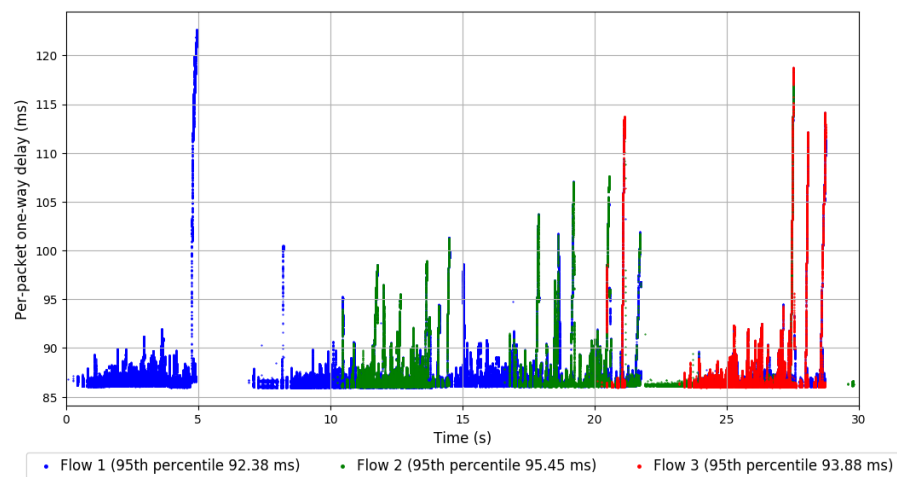
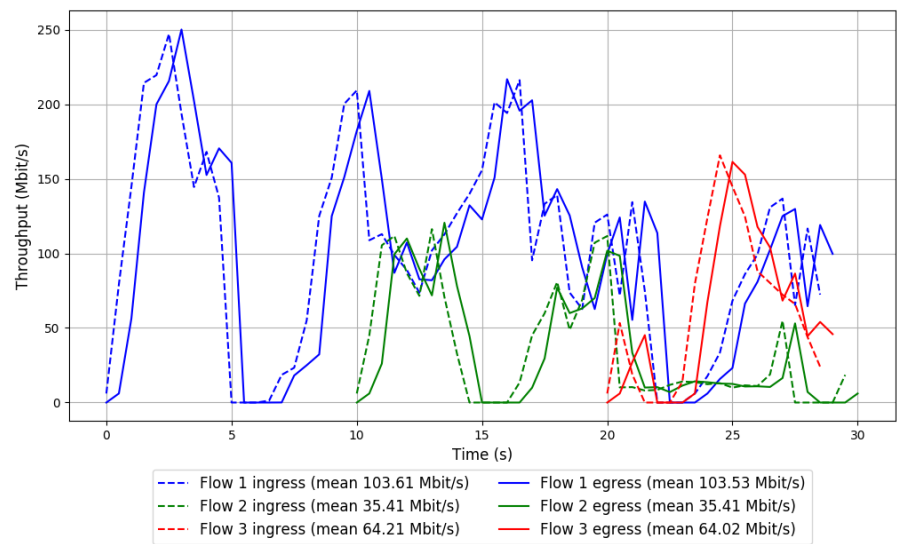
-- Flow 3:

Average throughput: 64.02 Mbit/s

95th percentile per-packet one-way delay: 93.880 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-07-10 15:06:10

End at: 2018-07-10 15:06:40

Local clock offset: -0.008 ms

Remote clock offset: 0.009 ms

Below is generated by plot.py at 2018-07-10 19:11:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 170.07 Mbit/s

95th percentile per-packet one-way delay: 88.887 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 166.44 Mbit/s

95th percentile per-packet one-way delay: 89.206 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 153.17 Mbit/s

95th percentile per-packet one-way delay: 88.489 ms

Loss rate: 0.43%

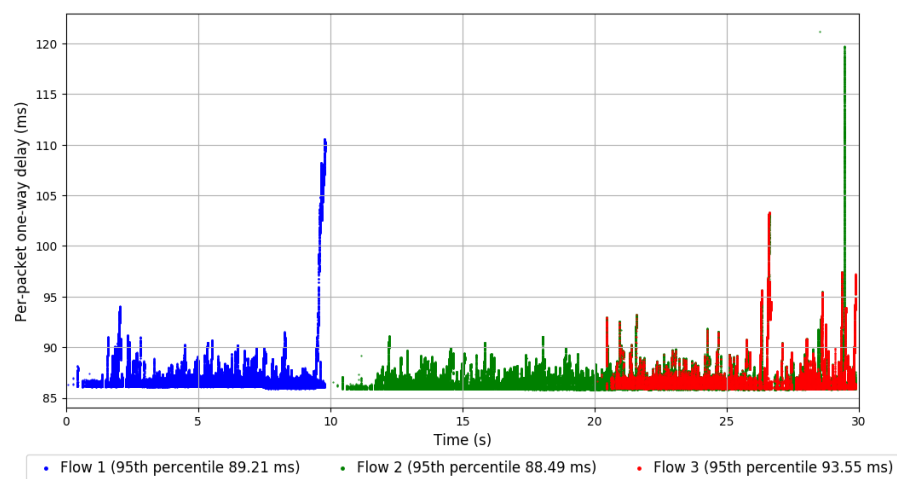
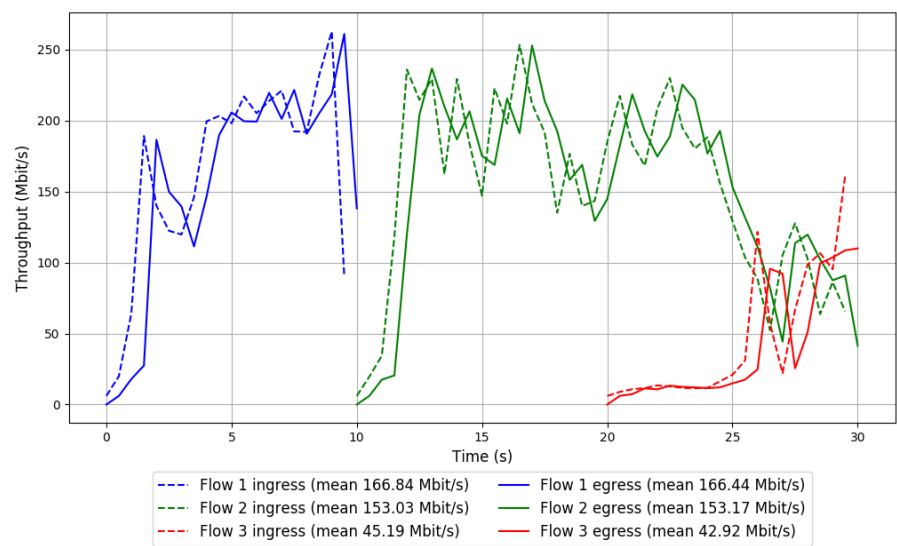
-- Flow 3:

Average throughput: 42.92 Mbit/s

95th percentile per-packet one-way delay: 93.552 ms

Loss rate: 6.24%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-07-10 15:30:54

End at: 2018-07-10 15:31:24

Local clock offset: -0.179 ms

Remote clock offset: 0.015 ms

Below is generated by plot.py at 2018-07-10 19:11:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 174.54 Mbit/s

95th percentile per-packet one-way delay: 89.507 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 143.92 Mbit/s

95th percentile per-packet one-way delay: 88.908 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 21.58 Mbit/s

95th percentile per-packet one-way delay: 91.239 ms

Loss rate: 5.72%

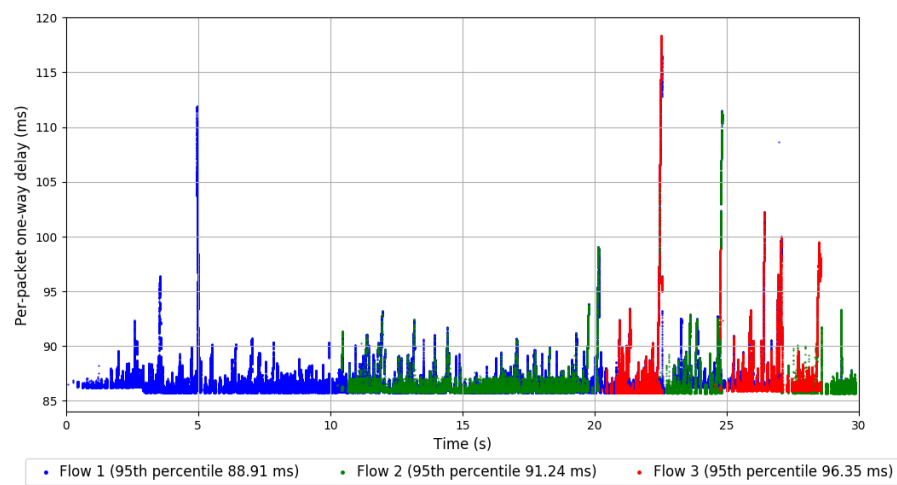
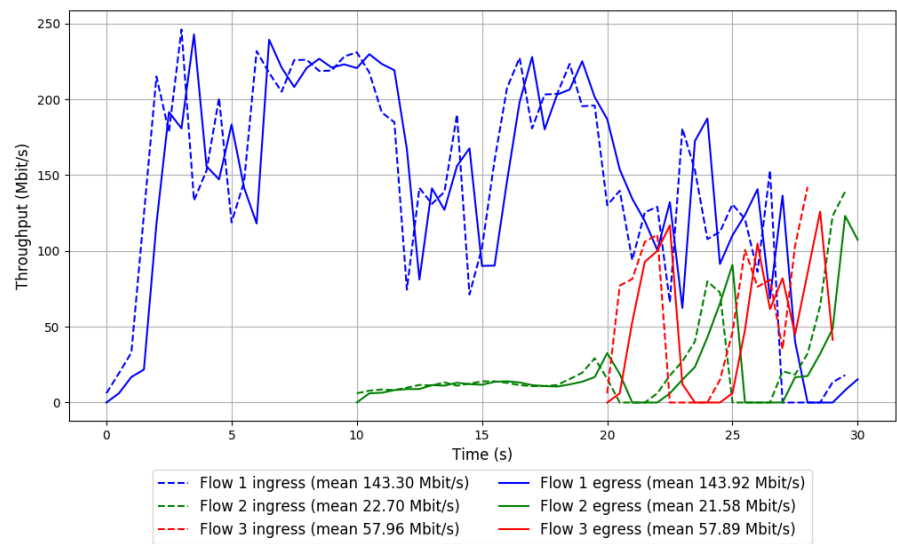
-- Flow 3:

Average throughput: 57.89 Mbit/s

95th percentile per-packet one-way delay: 96.353 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-07-10 15:55:35

End at: 2018-07-10 15:56:05

Local clock offset: 0.151 ms

Remote clock offset: 0.016 ms

Below is generated by plot.py at 2018-07-10 19:11:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 134.99 Mbit/s

95th percentile per-packet one-way delay: 92.640 ms

Loss rate: 0.82%

-- Flow 1:

Average throughput: 79.00 Mbit/s

95th percentile per-packet one-way delay: 92.304 ms

Loss rate: 0.68%

-- Flow 2:

Average throughput: 72.85 Mbit/s

95th percentile per-packet one-way delay: 92.003 ms

Loss rate: 0.14%

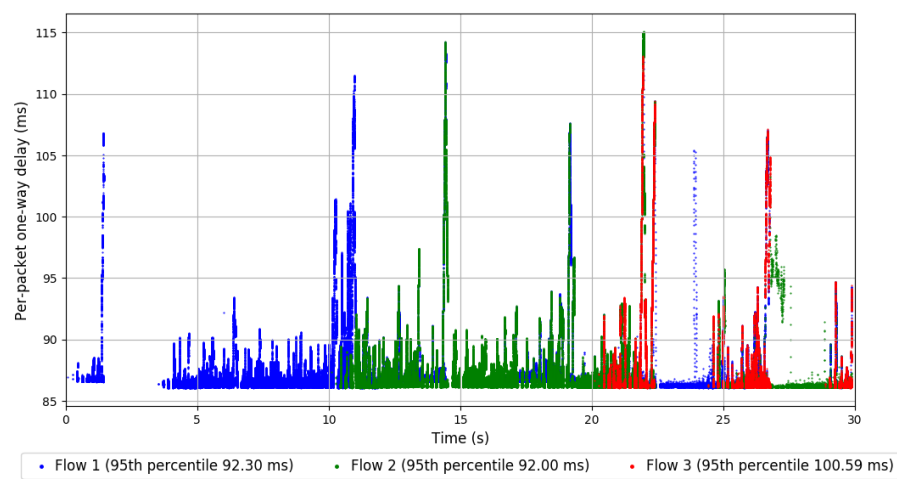
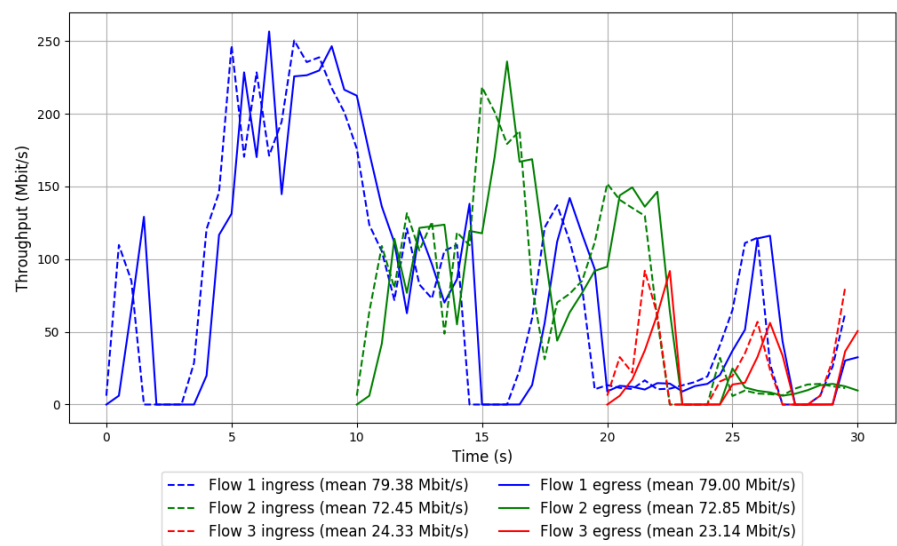
-- Flow 3:

Average throughput: 23.14 Mbit/s

95th percentile per-packet one-way delay: 100.593 ms

Loss rate: 6.20%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-07-10 16:20:00

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

Local clock offset: 0.043 ms

Remote clock offset: 0.022 ms

Below is generated by plot.py at 2018-07-10 19:12:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 151.88 Mbit/s

95th percentile per-packet one-way delay: 91.174 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 66.82 Mbit/s

95th percentile per-packet one-way delay: 90.251 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 107.00 Mbit/s

95th percentile per-packet one-way delay: 92.215 ms

Loss rate: 0.14%

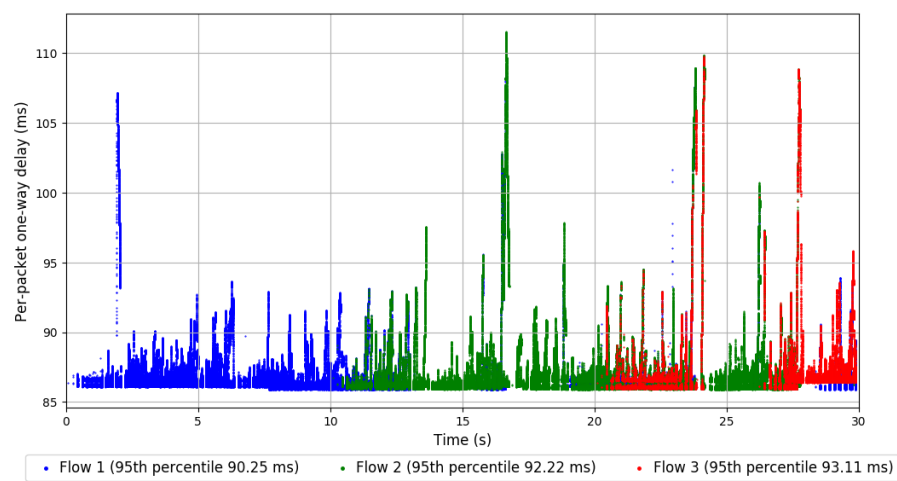
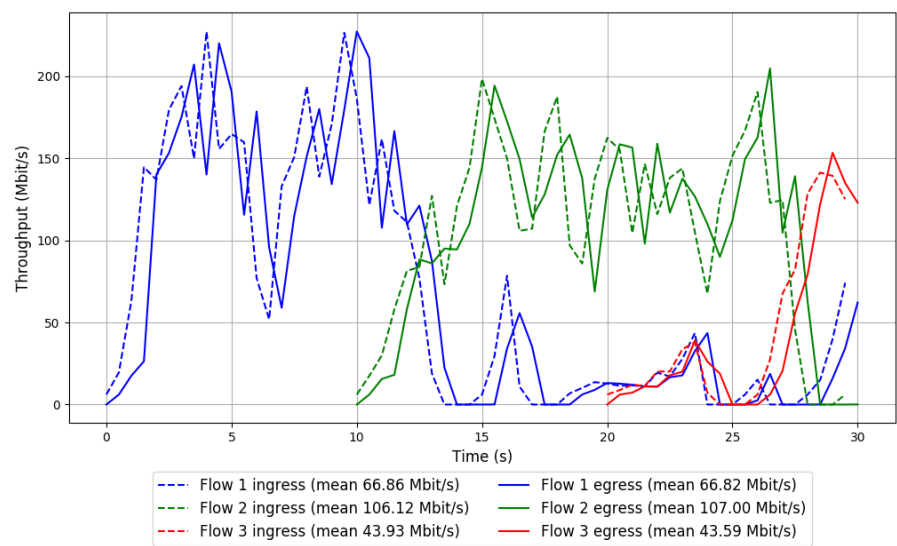
-- Flow 3:

Average throughput: 43.59 Mbit/s

95th percentile per-packet one-way delay: 93.114 ms

Loss rate: 2.65%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-07-10 16:44:26

End at: 2018-07-10 16:44:56

Local clock offset: -0.262 ms

Remote clock offset: 0.079 ms

Below is generated by plot.py at 2018-07-10 19:12:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 154.89 Mbit/s

95th percentile per-packet one-way delay: 90.443 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 95.16 Mbit/s

95th percentile per-packet one-way delay: 89.317 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 102.61 Mbit/s

95th percentile per-packet one-way delay: 91.749 ms

Loss rate: 0.00%

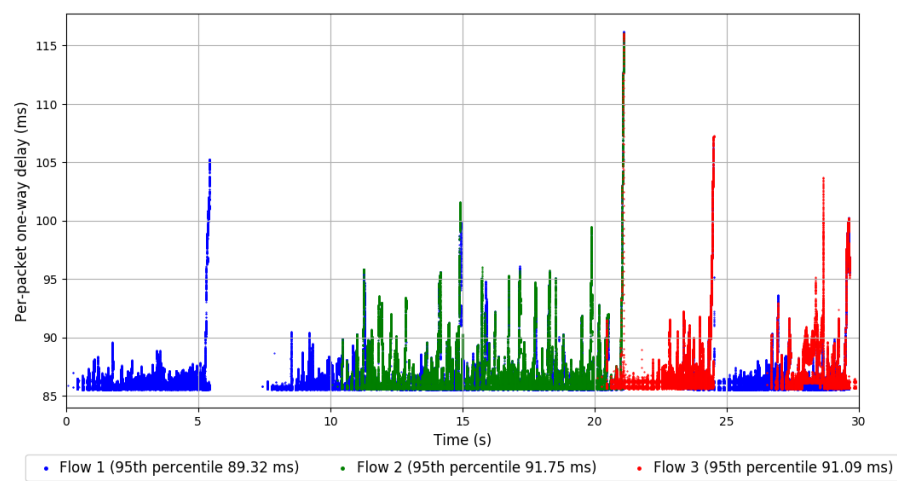
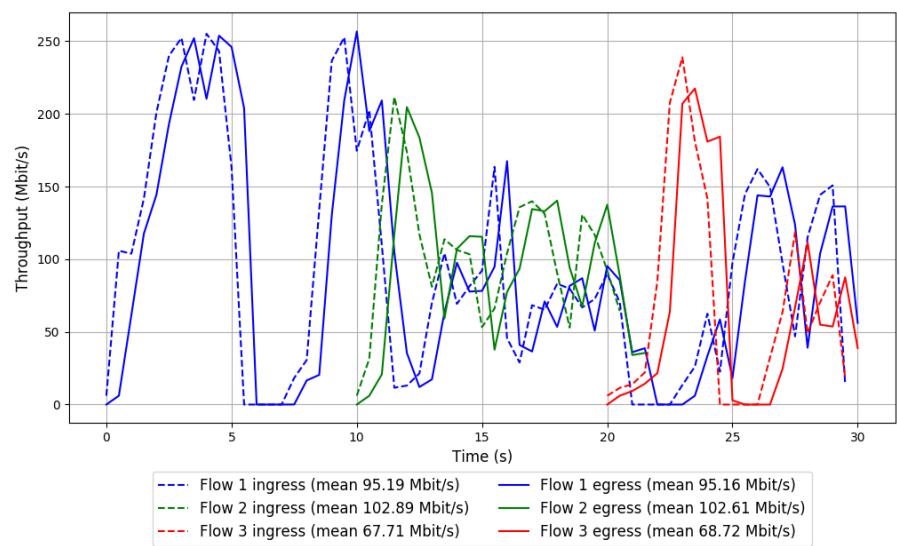
-- Flow 3:

Average throughput: 68.72 Mbit/s

95th percentile per-packet one-way delay: 91.091 ms

Loss rate: 0.26%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-07-10 17:08:41

End at: 2018-07-10 17:09:11

Local clock offset: 0.018 ms

Remote clock offset: 0.033 ms

Below is generated by plot.py at 2018-07-10 19:14:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 141.04 Mbit/s

95th percentile per-packet one-way delay: 91.812 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 80.48 Mbit/s

95th percentile per-packet one-way delay: 90.744 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 83.61 Mbit/s

95th percentile per-packet one-way delay: 92.658 ms

Loss rate: 0.22%

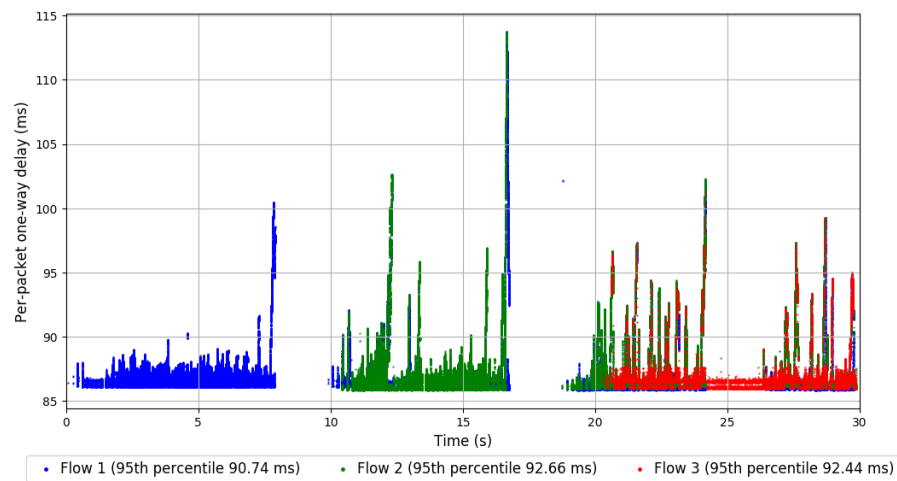
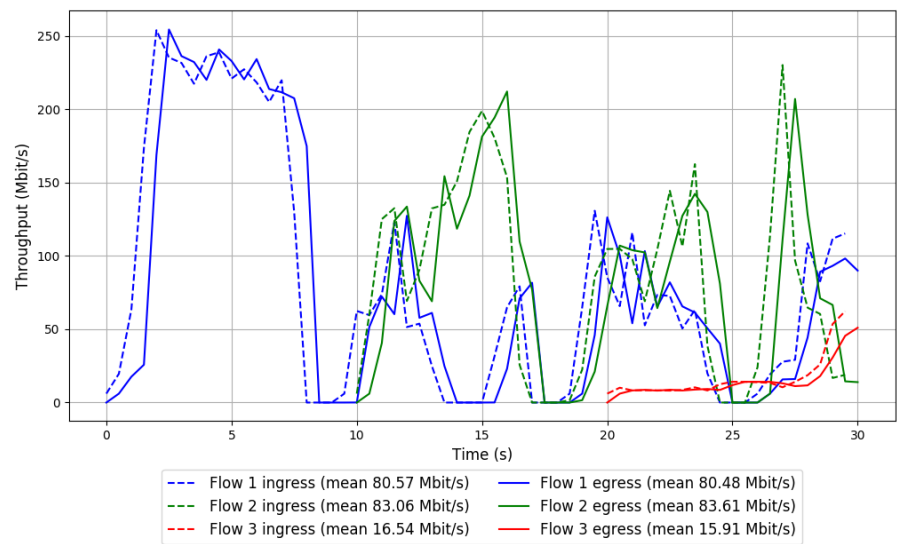
-- Flow 3:

Average throughput: 15.91 Mbit/s

95th percentile per-packet one-way delay: 92.435 ms

Loss rate: 5.86%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-07-10 13:31:54

End at: 2018-07-10 13:32:24

Local clock offset: -0.007 ms

Remote clock offset: 0.027 ms

Below is generated by plot.py at 2018-07-10 19:14:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 144.34 Mbit/s

95th percentile per-packet one-way delay: 99.405 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 61.87 Mbit/s

95th percentile per-packet one-way delay: 98.114 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 123.28 Mbit/s

95th percentile per-packet one-way delay: 99.774 ms

Loss rate: 0.37%

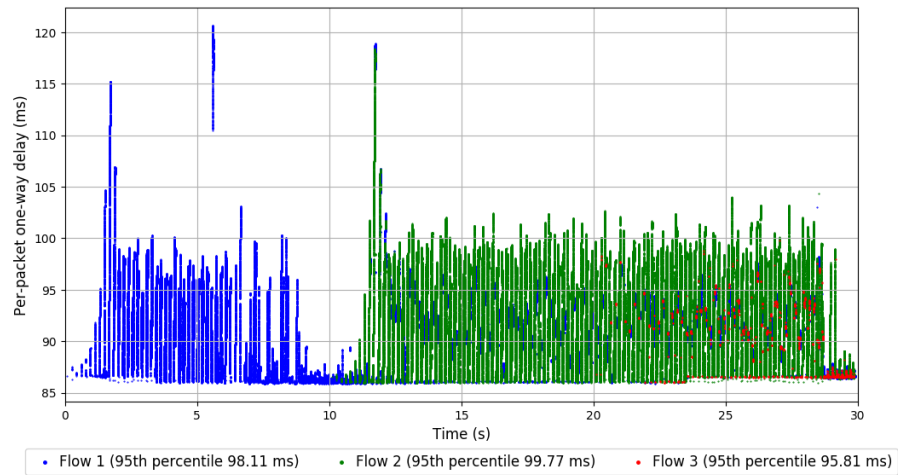
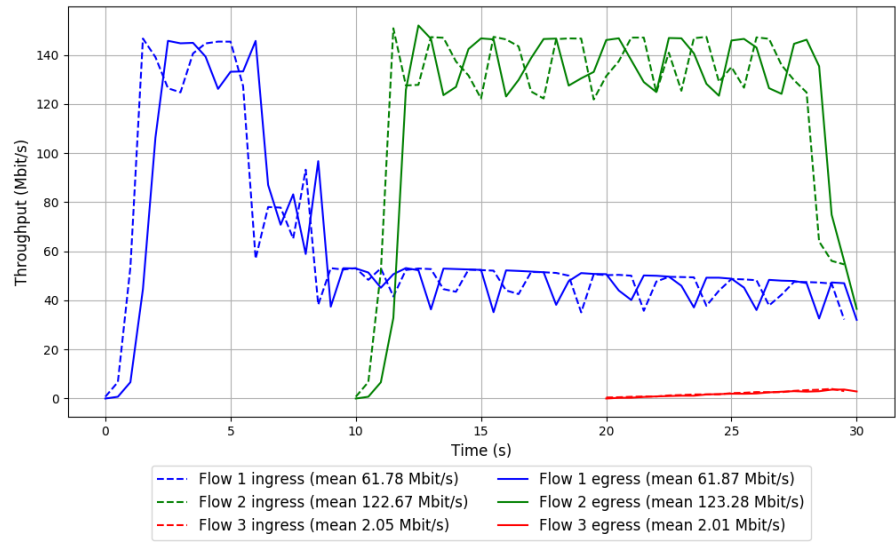
-- Flow 3:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 95.807 ms

Loss rate: 3.72%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-07-10 13:56:11

End at: 2018-07-10 13:56:41

Local clock offset: -0.138 ms

Remote clock offset: 0.011 ms

Below is generated by plot.py at 2018-07-10 19:15:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 213.90 Mbit/s

95th percentile per-packet one-way delay: 110.567 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 128.77 Mbit/s

95th percentile per-packet one-way delay: 110.706 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 125.95 Mbit/s

95th percentile per-packet one-way delay: 110.201 ms

Loss rate: 0.97%

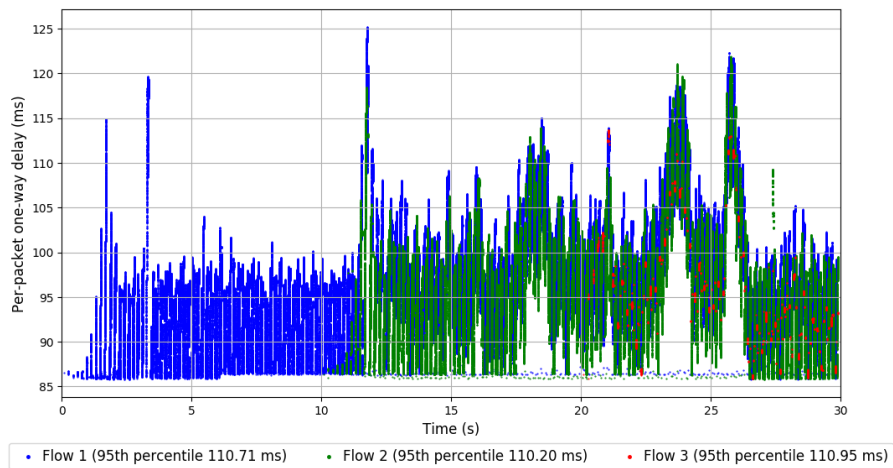
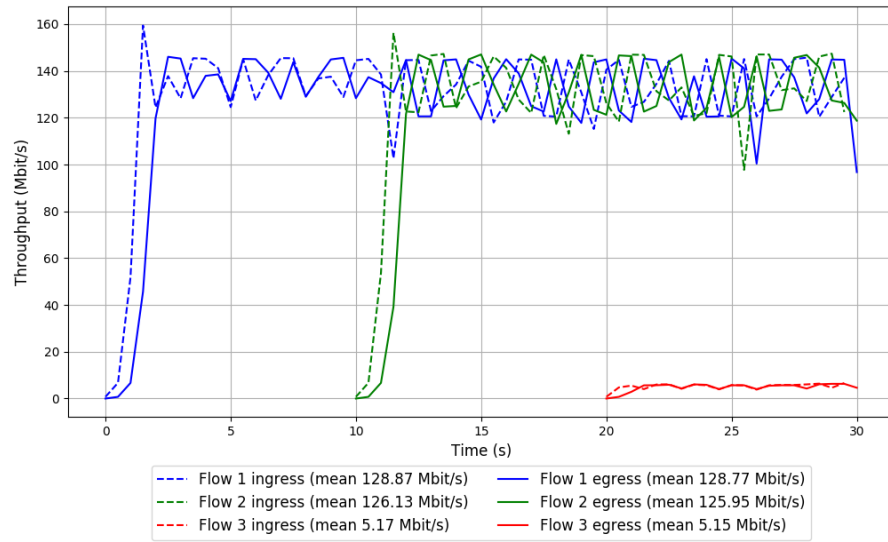
-- Flow 3:

Average throughput: 5.15 Mbit/s

95th percentile per-packet one-way delay: 110.948 ms

Loss rate: 2.14%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-07-10 14:20:58

End at: 2018-07-10 14:21:28

Local clock offset: 0.066 ms

Remote clock offset: 0.036 ms

Below is generated by plot.py at 2018-07-10 19:15:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 212.01 Mbit/s

95th percentile per-packet one-way delay: 110.242 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 121.66 Mbit/s

95th percentile per-packet one-way delay: 110.479 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 124.92 Mbit/s

95th percentile per-packet one-way delay: 110.187 ms

Loss rate: 1.05%

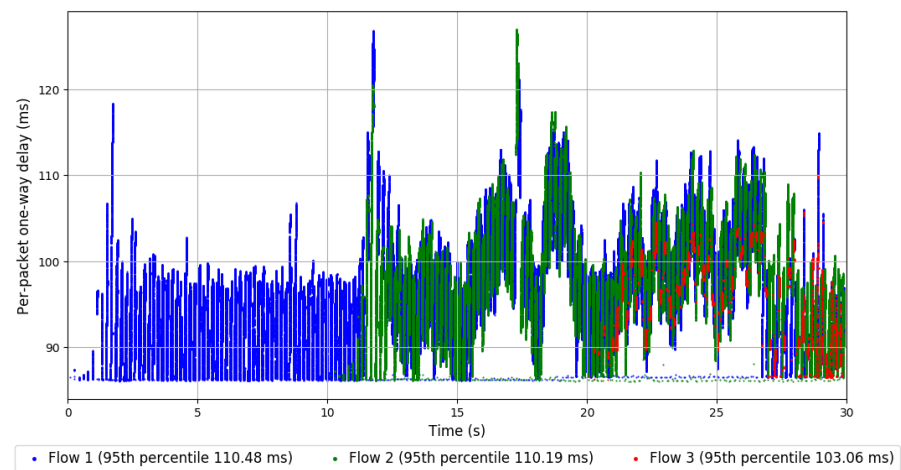
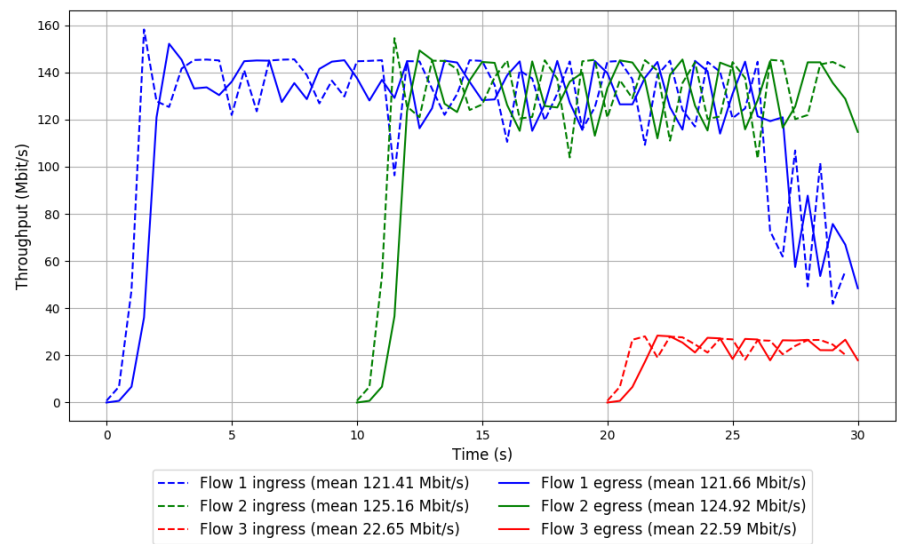
-- Flow 3:

Average throughput: 22.59 Mbit/s

95th percentile per-packet one-way delay: 103.055 ms

Loss rate: 2.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-07-10 14:45:30

End at: 2018-07-10 14:46:00

Local clock offset: 0.054 ms

Remote clock offset: 0.046 ms

Below is generated by plot.py at 2018-07-10 19:15:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 190.75 Mbit/s

95th percentile per-packet one-way delay: 115.417 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 99.23 Mbit/s

95th percentile per-packet one-way delay: 108.434 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 108.83 Mbit/s

95th percentile per-packet one-way delay: 116.547 ms

Loss rate: 0.36%

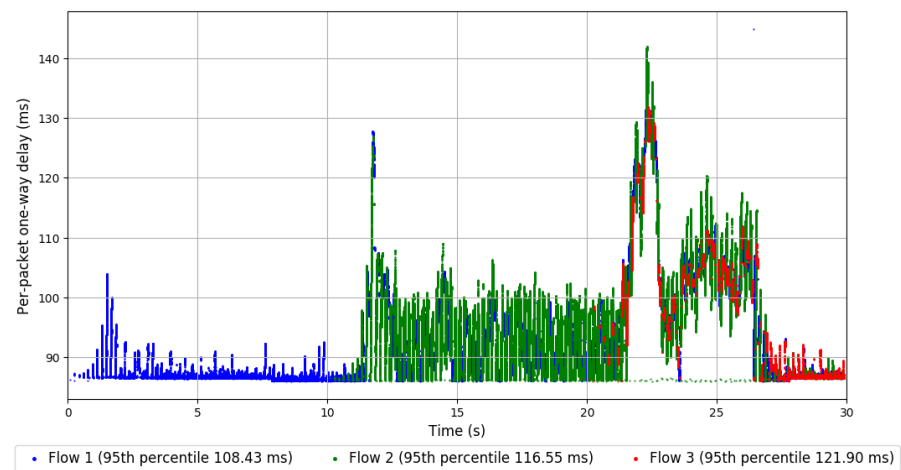
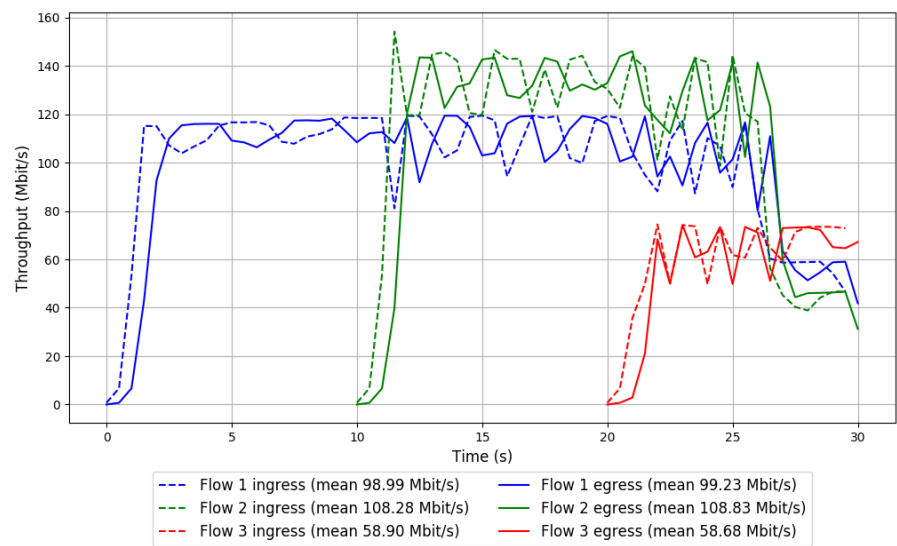
-- Flow 3:

Average throughput: 58.68 Mbit/s

95th percentile per-packet one-way delay: 121.898 ms

Loss rate: 2.09%

Run 4: Report of TCP Vegas — Data Link

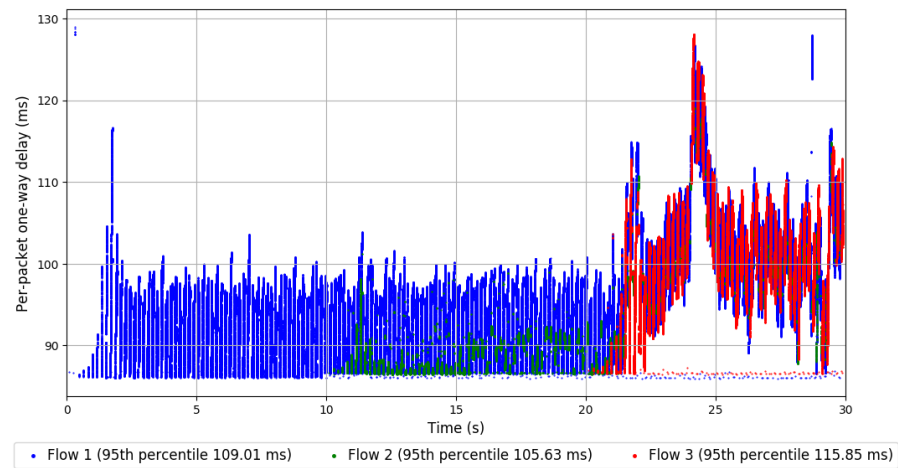
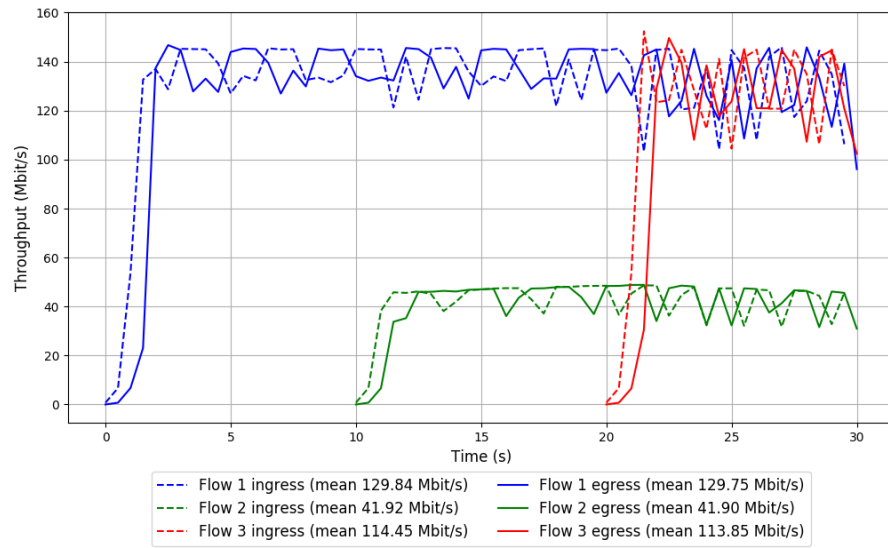


Run 5: Statistics of TCP Vegas

Start at: 2018-07-10 15:10:17
End at: 2018-07-10 15:10:47
Local clock offset: 0.02 ms
Remote clock offset: -0.012 ms

Below is generated by plot.py at 2018-07-10 19:15:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 194.61 Mbit/s
95th percentile per-packet one-way delay: 110.251 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 129.75 Mbit/s
95th percentile per-packet one-way delay: 109.007 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 41.90 Mbit/s
95th percentile per-packet one-way delay: 105.626 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 113.85 Mbit/s
95th percentile per-packet one-way delay: 115.849 ms
Loss rate: 2.27%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-07-10 15:35:03

End at: 2018-07-10 15:35:33

Local clock offset: -0.182 ms

Remote clock offset: 0.02 ms

Below is generated by plot.py at 2018-07-10 19:15:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 130.49 Mbit/s

95th percentile per-packet one-way delay: 102.773 ms

Loss rate: 1.19%

-- Flow 1:

Average throughput: 55.75 Mbit/s

95th percentile per-packet one-way delay: 97.527 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 54.41 Mbit/s

95th percentile per-packet one-way delay: 99.223 ms

Loss rate: 0.93%

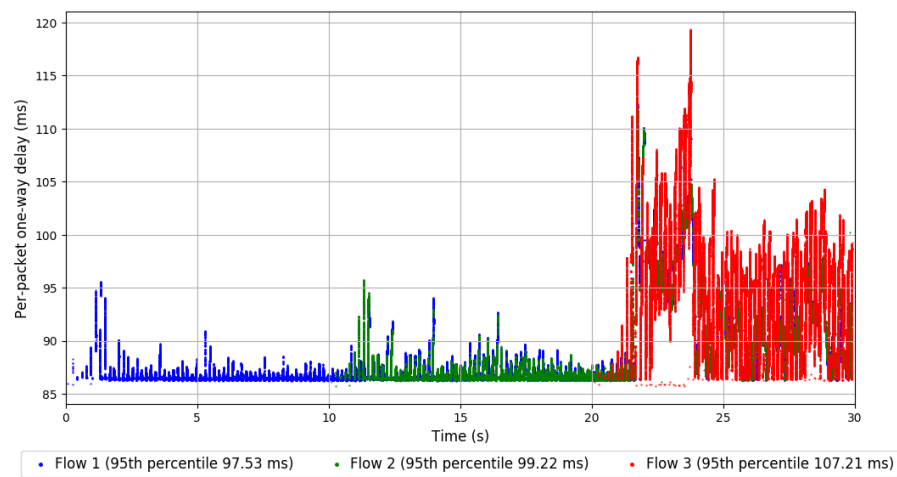
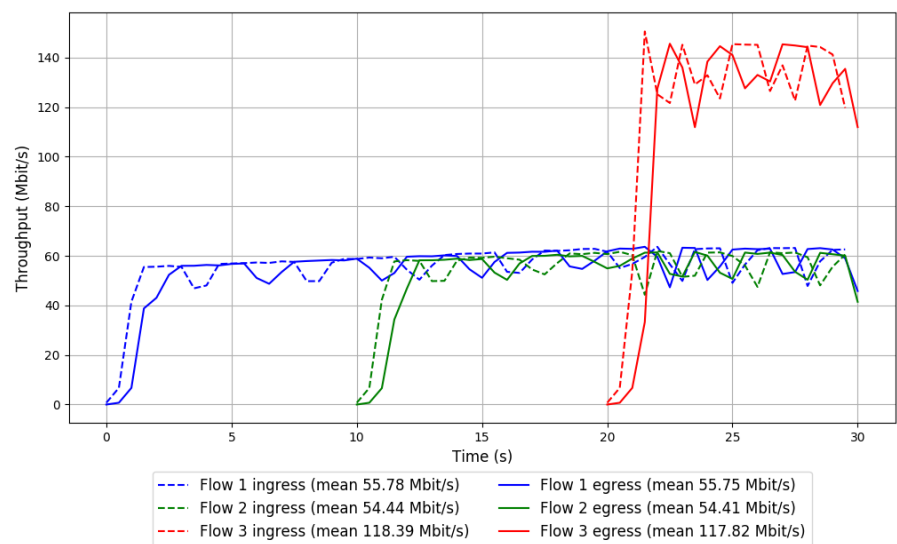
-- Flow 3:

Average throughput: 117.82 Mbit/s

95th percentile per-packet one-way delay: 107.209 ms

Loss rate: 2.21%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-07-10 15:59:38

End at: 2018-07-10 16:00:08

Local clock offset: -0.038 ms

Remote clock offset: 0.015 ms

Below is generated by plot.py at 2018-07-10 19:16:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 206.78 Mbit/s

95th percentile per-packet one-way delay: 119.840 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 125.45 Mbit/s

95th percentile per-packet one-way delay: 117.995 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 121.79 Mbit/s

95th percentile per-packet one-way delay: 122.041 ms

Loss rate: 0.99%

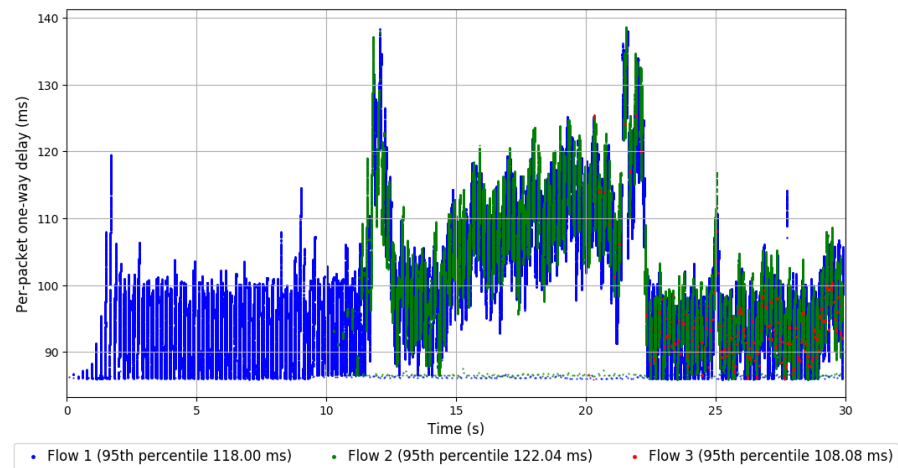
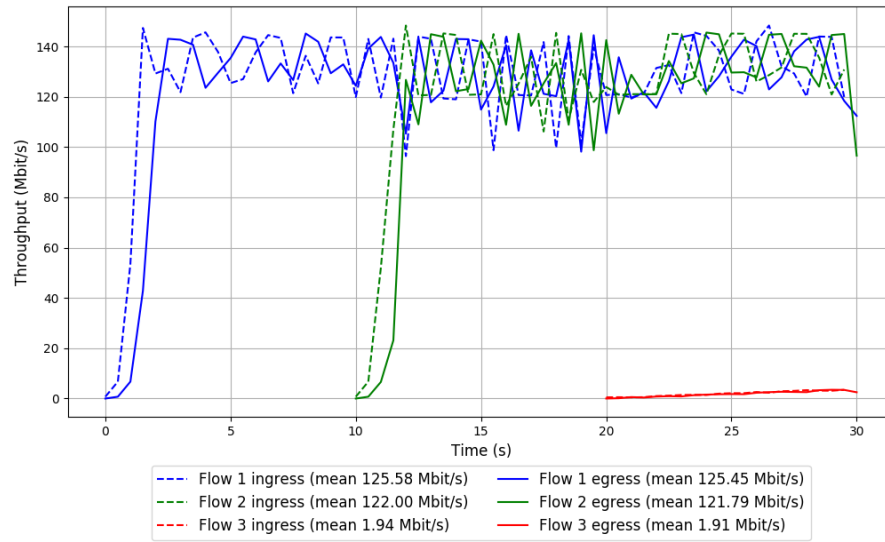
-- Flow 3:

Average throughput: 1.91 Mbit/s

95th percentile per-packet one-way delay: 108.084 ms

Loss rate: 3.55%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-07-10 16:24:05

End at: 2018-07-10 16:24:35

Local clock offset: -0.002 ms

Remote clock offset: 0.035 ms

Below is generated by plot.py at 2018-07-10 19:17:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 210.59 Mbit/s

95th percentile per-packet one-way delay: 102.050 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 123.85 Mbit/s

95th percentile per-packet one-way delay: 101.475 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 127.93 Mbit/s

95th percentile per-packet one-way delay: 102.513 ms

Loss rate: 1.00%

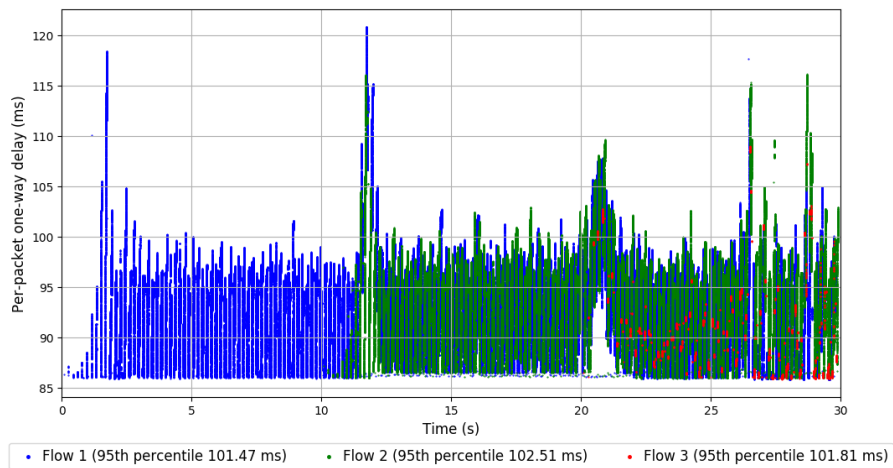
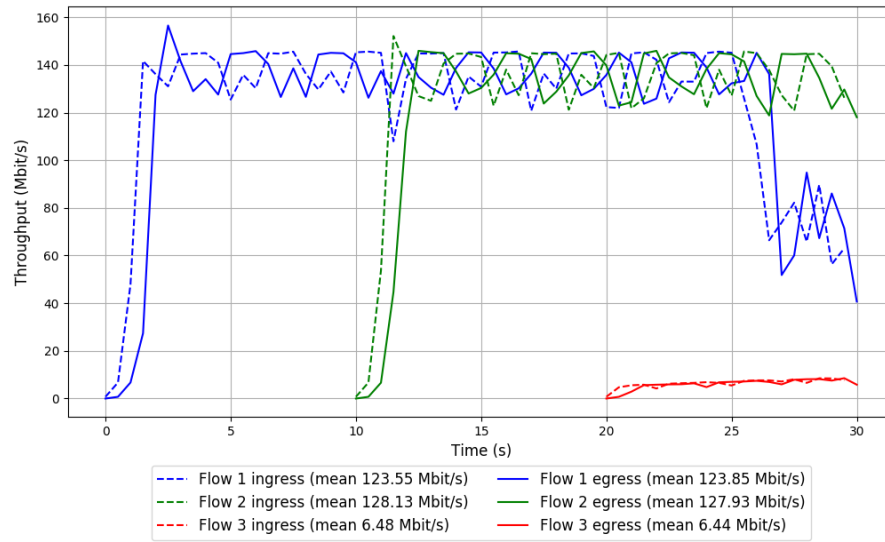
-- Flow 3:

Average throughput: 6.44 Mbit/s

95th percentile per-packet one-way delay: 101.808 ms

Loss rate: 2.28%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-07-10 16:48:30

End at: 2018-07-10 16:49:00

Local clock offset: 0.034 ms

Remote clock offset: 0.026 ms

Below is generated by plot.py at 2018-07-10 19:17:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 168.16 Mbit/s

95th percentile per-packet one-way delay: 119.129 ms

Loss rate: 1.12%

-- Flow 1:

Average throughput: 50.24 Mbit/s

95th percentile per-packet one-way delay: 109.917 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 124.04 Mbit/s

95th percentile per-packet one-way delay: 118.662 ms

Loss rate: 0.97%

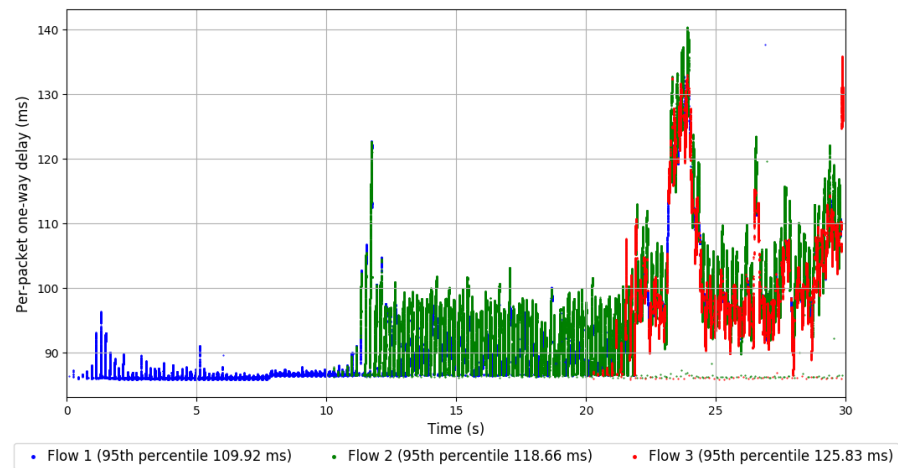
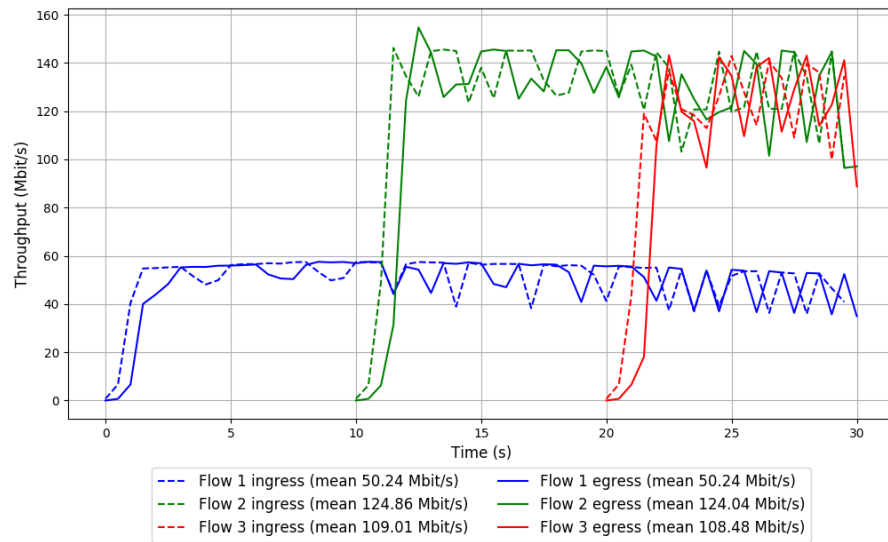
-- Flow 3:

Average throughput: 108.48 Mbit/s

95th percentile per-packet one-way delay: 125.832 ms

Loss rate: 2.20%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-07-10 17:12:45

End at: 2018-07-10 17:13:15

Local clock offset: -0.074 ms

Remote clock offset: 0.056 ms

Below is generated by plot.py at 2018-07-10 19:17:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 174.31 Mbit/s

95th percentile per-packet one-way delay: 100.066 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 132.94 Mbit/s

95th percentile per-packet one-way delay: 99.677 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 3.74 Mbit/s

95th percentile per-packet one-way delay: 96.493 ms

Loss rate: 1.74%

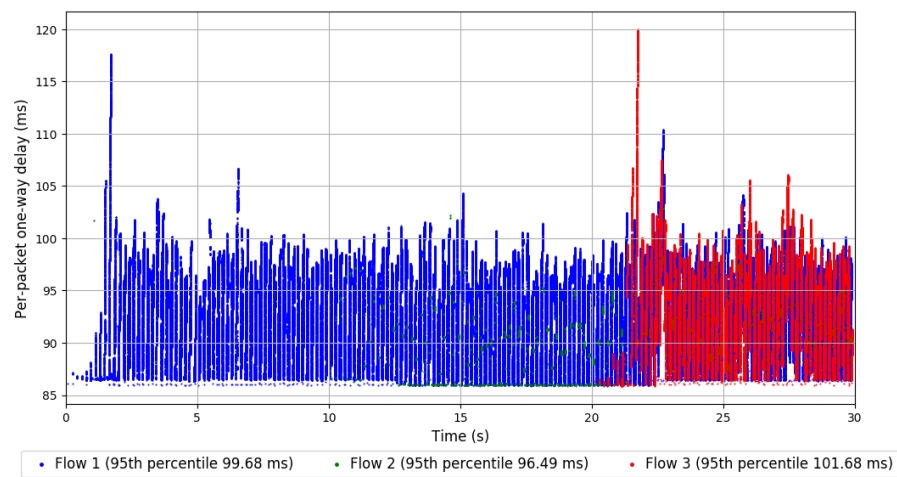
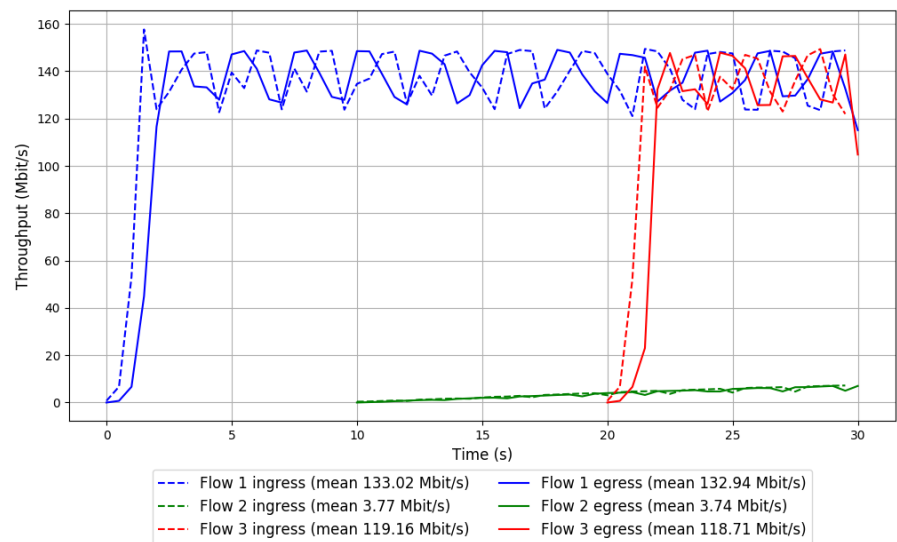
-- Flow 3:

Average throughput: 118.71 Mbit/s

95th percentile per-packet one-way delay: 101.680 ms

Loss rate: 2.11%

Run 10: Report of TCP Vegas — Data Link

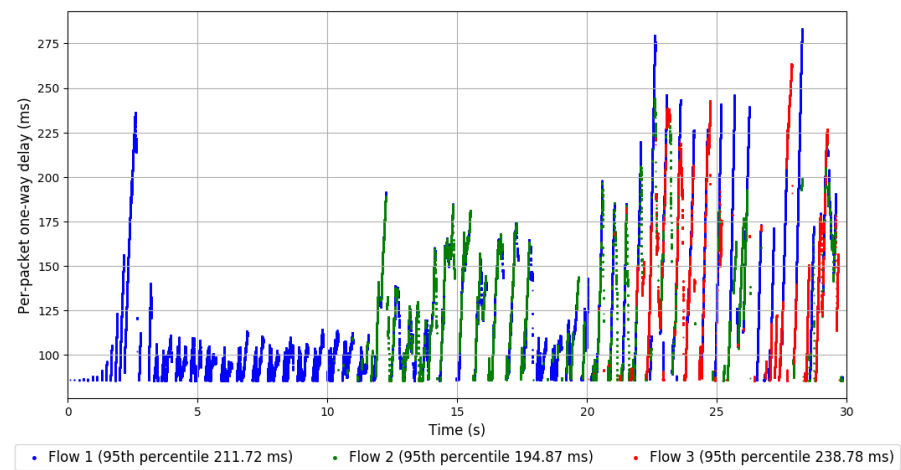
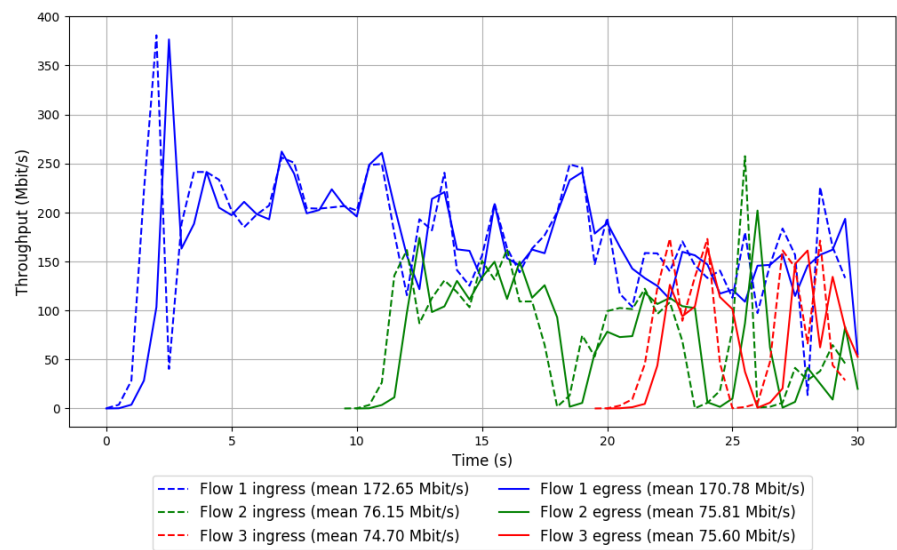


Run 1: Statistics of Verus

Start at: 2018-07-10 13:29:12
End at: 2018-07-10 13:29:42
Local clock offset: -0.246 ms
Remote clock offset: -0.009 ms

Below is generated by plot.py at 2018-07-10 19:19:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 245.69 Mbit/s
95th percentile per-packet one-way delay: 218.722 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 170.78 Mbit/s
95th percentile per-packet one-way delay: 211.724 ms
Loss rate: 1.40%
-- Flow 2:
Average throughput: 75.81 Mbit/s
95th percentile per-packet one-way delay: 194.865 ms
Loss rate: 1.37%
-- Flow 3:
Average throughput: 75.60 Mbit/s
95th percentile per-packet one-way delay: 238.779 ms
Loss rate: 0.59%

Run 1: Report of Verus — Data Link

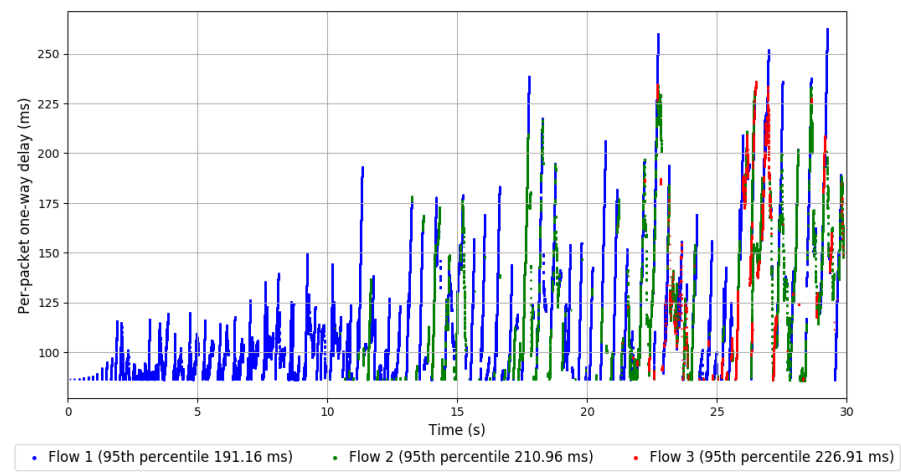
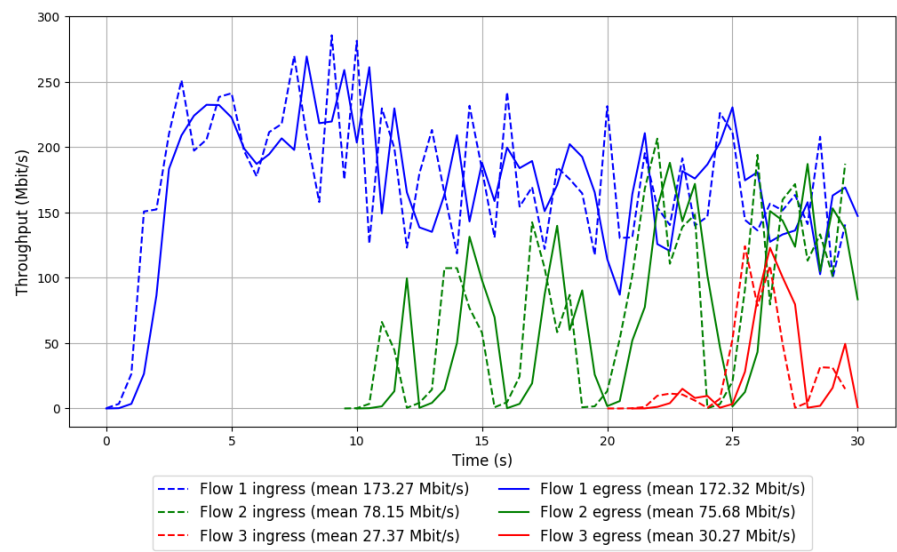


Run 2: Statistics of Verus

Start at: 2018-07-10 13:53:31
End at: 2018-07-10 13:54:01
Local clock offset: -0.137 ms
Remote clock offset: -0.007 ms

Below is generated by plot.py at 2018-07-10 19:19:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 231.43 Mbit/s
95th percentile per-packet one-way delay: 199.354 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 172.32 Mbit/s
95th percentile per-packet one-way delay: 191.157 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 75.68 Mbit/s
95th percentile per-packet one-way delay: 210.955 ms
Loss rate: 3.65%
-- Flow 3:
Average throughput: 30.27 Mbit/s
95th percentile per-packet one-way delay: 226.914 ms
Loss rate: 3.28%

Run 2: Report of Verus — Data Link

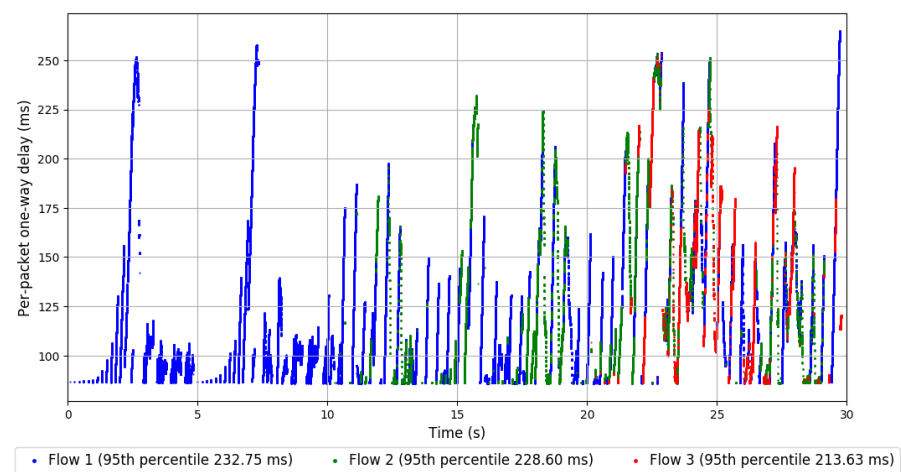
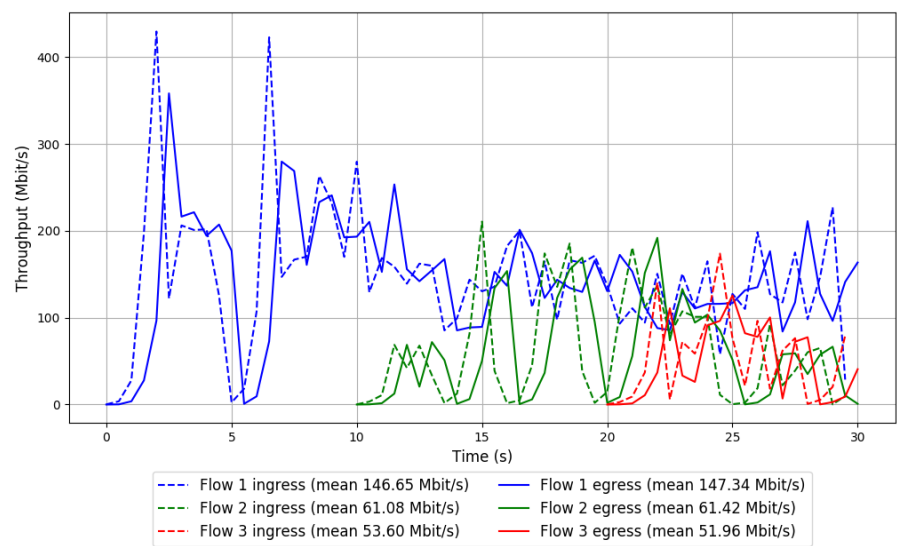


Run 3: Statistics of Verus

Start at: 2018-07-10 14:18:19
End at: 2018-07-10 14:18:49
Local clock offset: -0.1 ms
Remote clock offset: -0.011 ms

Below is generated by plot.py at 2018-07-10 19:19:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 204.54 Mbit/s
95th percentile per-packet one-way delay: 229.821 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 147.34 Mbit/s
95th percentile per-packet one-way delay: 232.753 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 61.42 Mbit/s
95th percentile per-packet one-way delay: 228.604 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 51.96 Mbit/s
95th percentile per-packet one-way delay: 213.632 ms
Loss rate: 5.01%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-07-10 14:42:48

End at: 2018-07-10 14:43:18

Local clock offset: -0.192 ms

Remote clock offset: 0.045 ms

Below is generated by plot.py at 2018-07-10 19:20:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 241.36 Mbit/s

95th percentile per-packet one-way delay: 248.995 ms

Loss rate: 3.66%

-- Flow 1:

Average throughput: 136.70 Mbit/s

95th percentile per-packet one-way delay: 246.043 ms

Loss rate: 3.68%

-- Flow 2:

Average throughput: 137.20 Mbit/s

95th percentile per-packet one-way delay: 254.048 ms

Loss rate: 3.70%

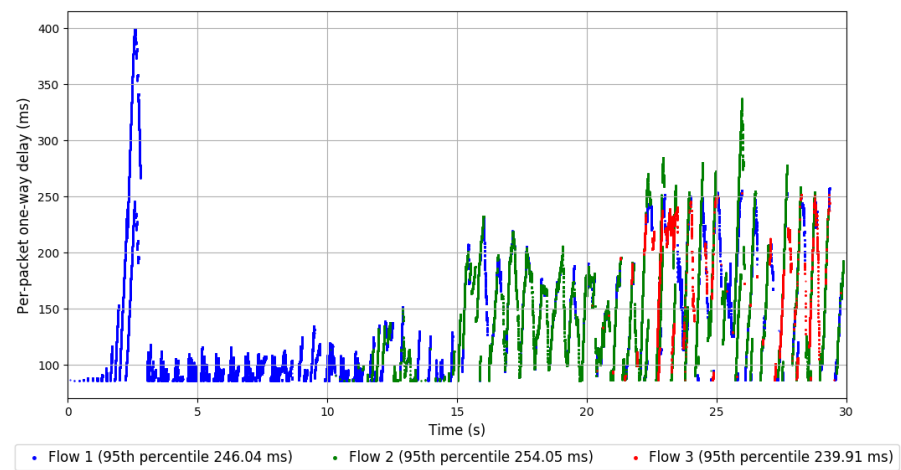
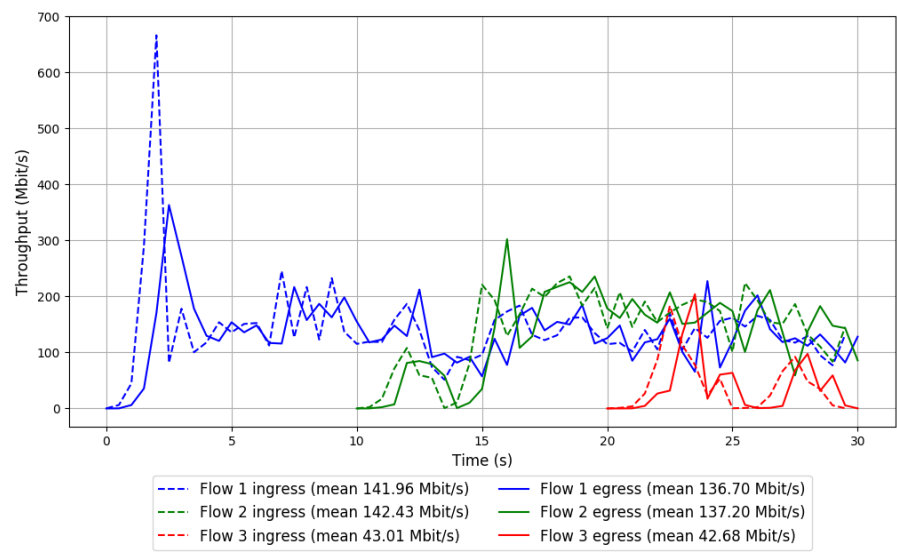
-- Flow 3:

Average throughput: 42.68 Mbit/s

95th percentile per-packet one-way delay: 239.911 ms

Loss rate: 3.19%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-07-10 15:07:37

End at: 2018-07-10 15:08:08

Local clock offset: 0.168 ms

Remote clock offset: 0.058 ms

Below is generated by plot.py at 2018-07-10 19:20:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 220.25 Mbit/s

95th percentile per-packet one-way delay: 249.593 ms

Loss rate: 1.76%

-- Flow 1:

Average throughput: 161.34 Mbit/s

95th percentile per-packet one-way delay: 229.885 ms

Loss rate: 1.35%

-- Flow 2:

Average throughput: 64.33 Mbit/s

95th percentile per-packet one-way delay: 252.711 ms

Loss rate: 2.74%

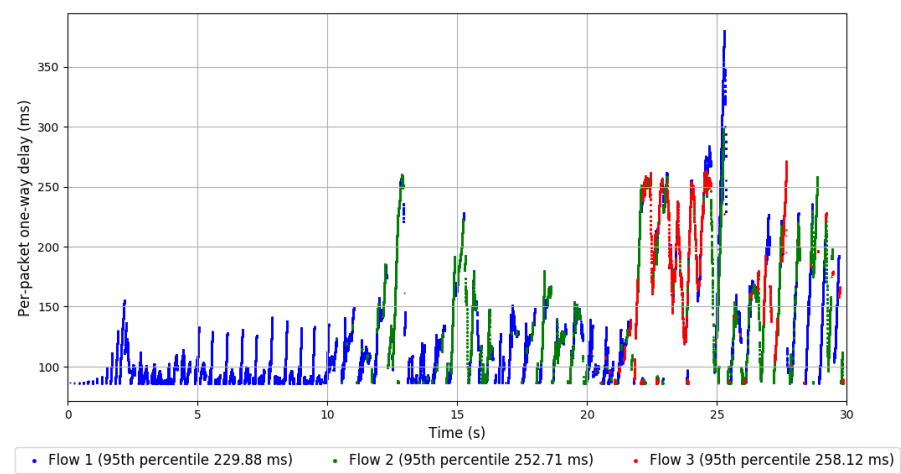
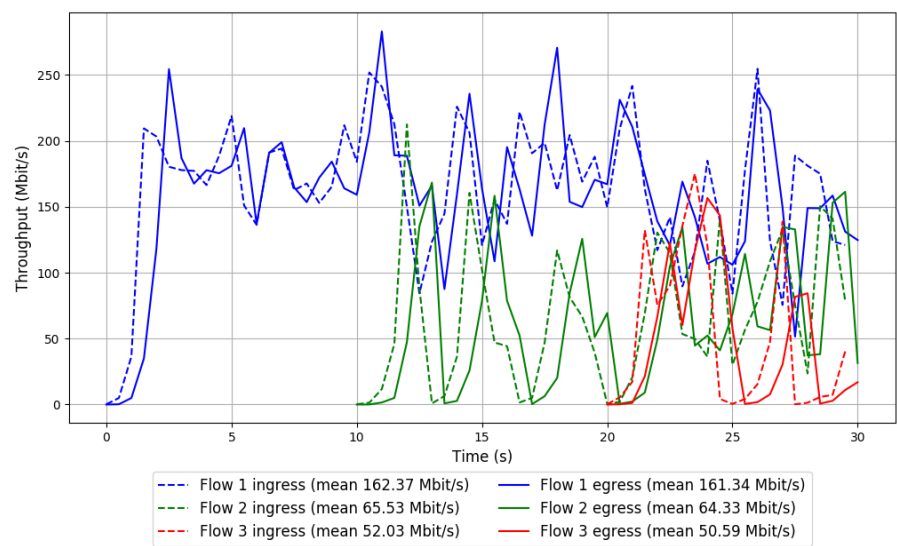
-- Flow 3:

Average throughput: 50.59 Mbit/s

95th percentile per-packet one-way delay: 258.117 ms

Loss rate: 3.23%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-07-10 15:32:22

End at: 2018-07-10 15:32:52

Local clock offset: -0.173 ms

Remote clock offset: 0.043 ms

Below is generated by plot.py at 2018-07-10 19:21:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 232.33 Mbit/s

95th percentile per-packet one-way delay: 267.408 ms

Loss rate: 4.26%

-- Flow 1:

Average throughput: 135.03 Mbit/s

95th percentile per-packet one-way delay: 265.104 ms

Loss rate: 3.16%

-- Flow 2:

Average throughput: 125.02 Mbit/s

95th percentile per-packet one-way delay: 271.568 ms

Loss rate: 5.18%

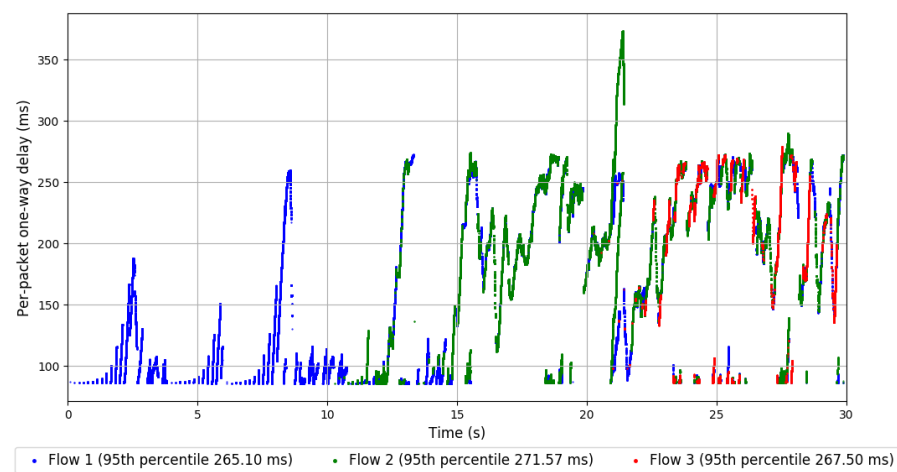
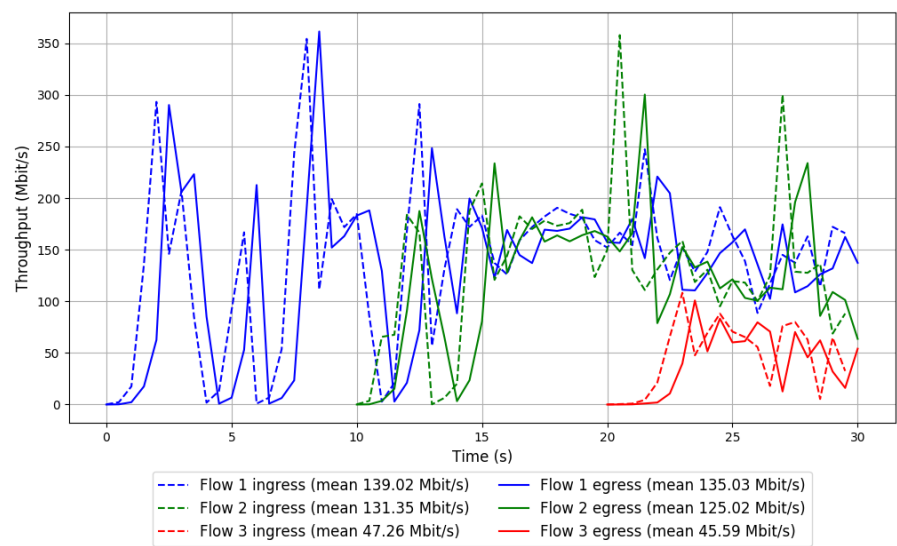
-- Flow 3:

Average throughput: 45.59 Mbit/s

95th percentile per-packet one-way delay: 267.501 ms

Loss rate: 8.91%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-07-10 15:56:59

End at: 2018-07-10 15:57:29

Local clock offset: -0.05 ms

Remote clock offset: 0.014 ms

Below is generated by plot.py at 2018-07-10 19:21:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 191.74 Mbit/s

95th percentile per-packet one-way delay: 195.360 ms

Loss rate: 1.27%

-- Flow 1:

Average throughput: 119.74 Mbit/s

95th percentile per-packet one-way delay: 156.449 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 80.65 Mbit/s

95th percentile per-packet one-way delay: 219.364 ms

Loss rate: 2.20%

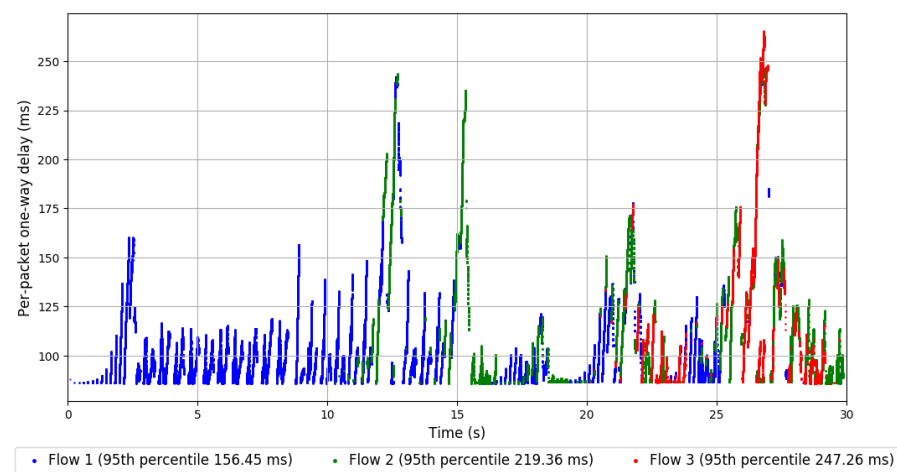
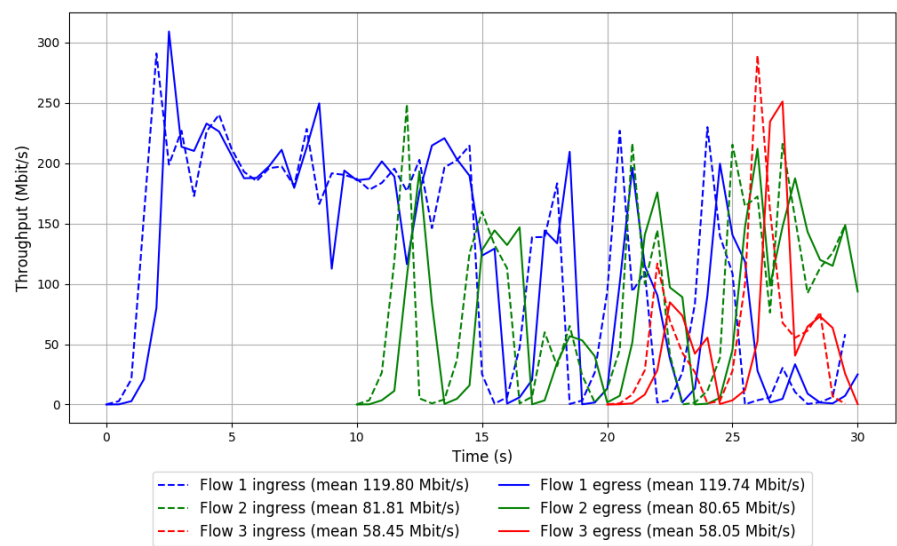
-- Flow 3:

Average throughput: 58.05 Mbit/s

95th percentile per-packet one-way delay: 247.261 ms

Loss rate: 2.45%

Run 7: Report of Verus — Data Link

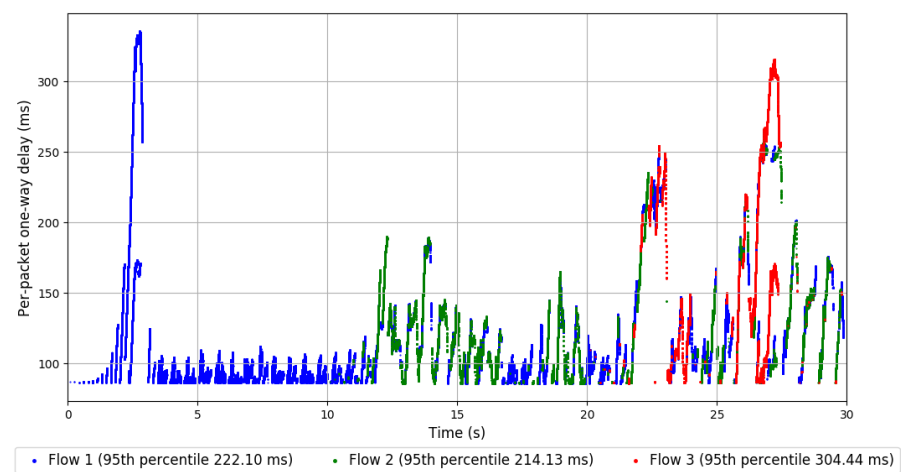
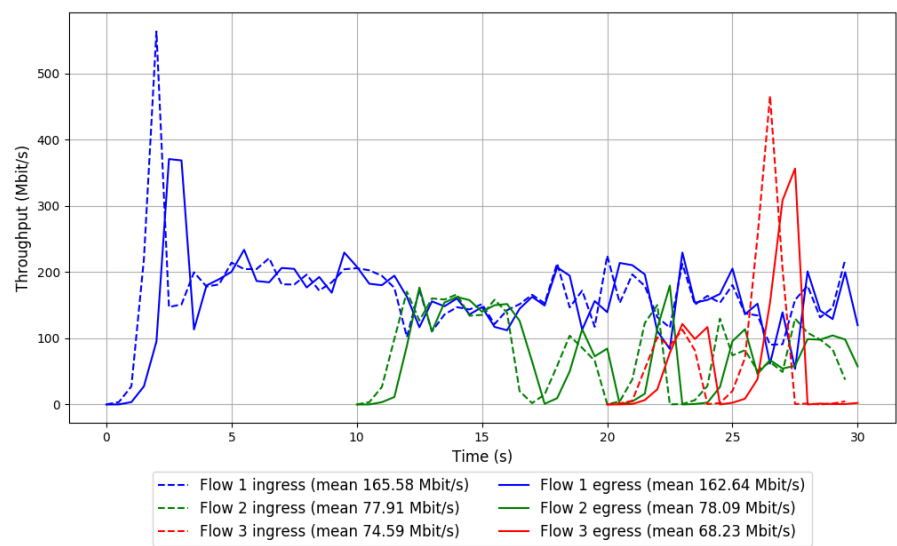


Run 8: Statistics of Verus

Start at: 2018-07-10 16:21:25
End at: 2018-07-10 16:21:55
Local clock offset: -0.054 ms
Remote clock offset: 0.006 ms

Below is generated by plot.py at 2018-07-10 19:22:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 236.34 Mbit/s
95th percentile per-packet one-way delay: 247.263 ms
Loss rate: 2.77%
-- Flow 1:
Average throughput: 162.64 Mbit/s
95th percentile per-packet one-way delay: 222.097 ms
Loss rate: 2.31%
-- Flow 2:
Average throughput: 78.09 Mbit/s
95th percentile per-packet one-way delay: 214.131 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 68.23 Mbit/s
95th percentile per-packet one-way delay: 304.442 ms
Loss rate: 10.35%

Run 8: Report of Verus — Data Link

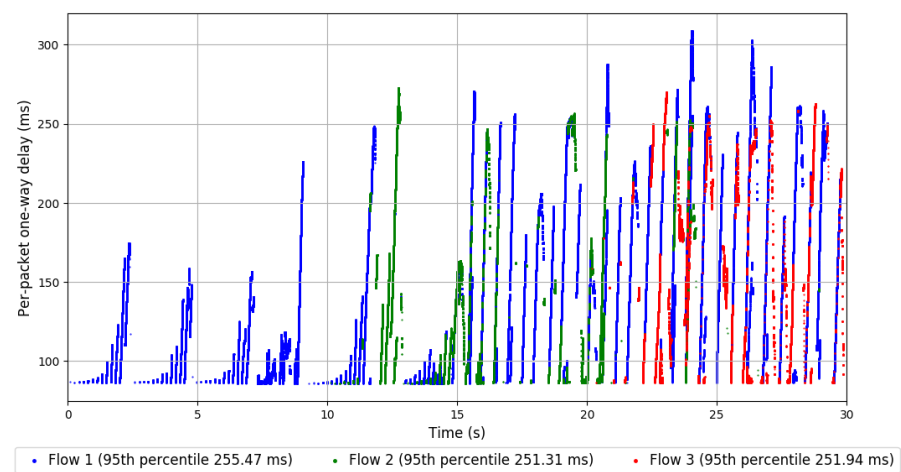
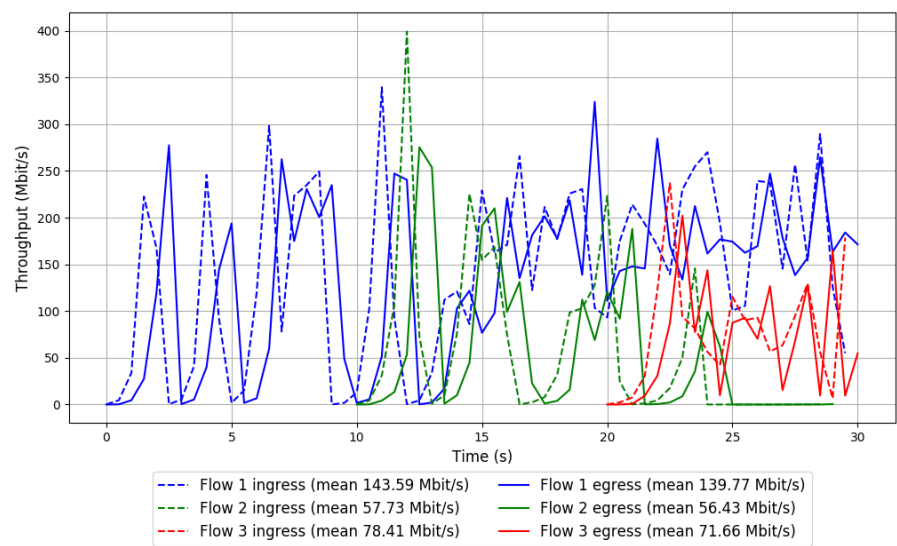


Run 9: Statistics of Verus

Start at: 2018-07-10 16:45:51
End at: 2018-07-10 16:46:21
Local clock offset: -0.067 ms
Remote clock offset: 0.059 ms

Below is generated by plot.py at 2018-07-10 19:22:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 198.13 Mbit/s
95th percentile per-packet one-way delay: 254.046 ms
Loss rate: 3.30%
-- Flow 1:
Average throughput: 139.77 Mbit/s
95th percentile per-packet one-way delay: 255.472 ms
Loss rate: 2.24%
-- Flow 2:
Average throughput: 56.43 Mbit/s
95th percentile per-packet one-way delay: 251.308 ms
Loss rate: 1.94%
-- Flow 3:
Average throughput: 71.66 Mbit/s
95th percentile per-packet one-way delay: 251.940 ms
Loss rate: 10.94%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-07-10 17:10:05

End at: 2018-07-10 17:10:35

Local clock offset: 0.056 ms

Remote clock offset: 0.024 ms

Below is generated by plot.py at 2018-07-10 19:23:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 215.34 Mbit/s

95th percentile per-packet one-way delay: 207.324 ms

Loss rate: 2.00%

-- Flow 1:

Average throughput: 146.79 Mbit/s

95th percentile per-packet one-way delay: 212.611 ms

Loss rate: 2.00%

-- Flow 2:

Average throughput: 96.45 Mbit/s

95th percentile per-packet one-way delay: 195.170 ms

Loss rate: 1.81%

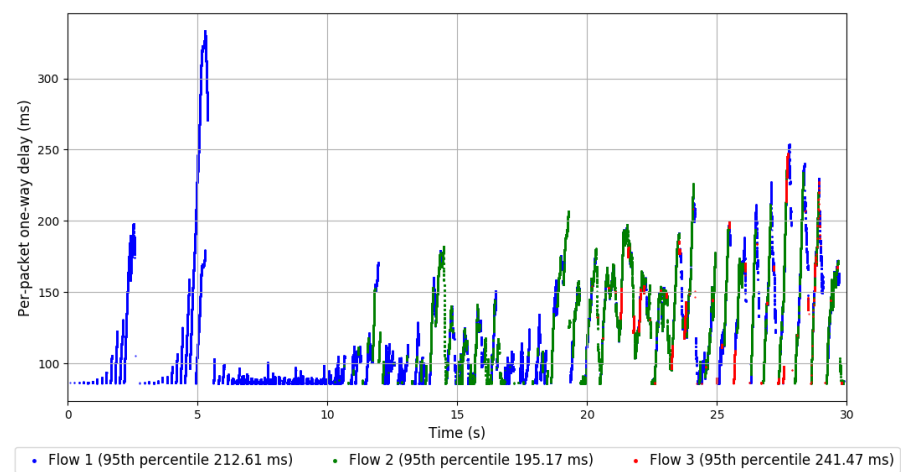
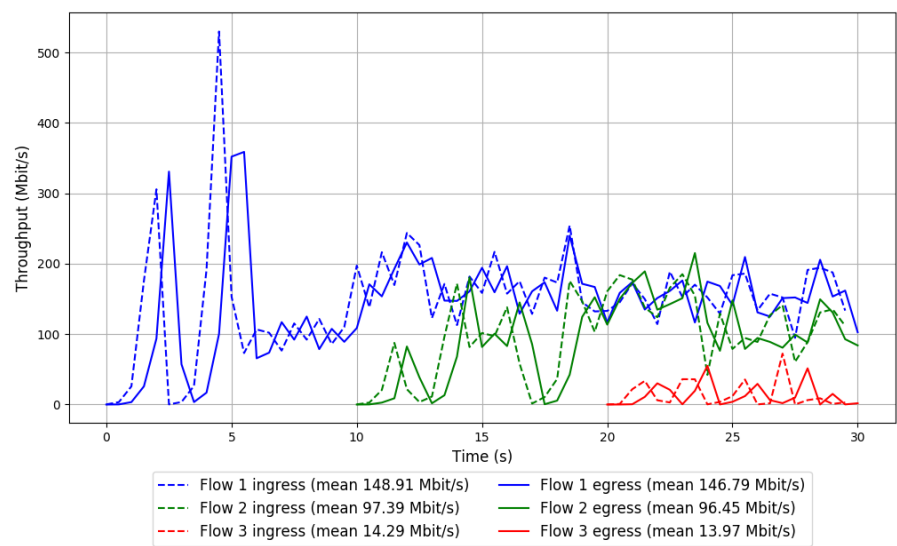
-- Flow 3:

Average throughput: 13.97 Mbit/s

95th percentile per-packet one-way delay: 241.465 ms

Loss rate: 4.66%

Run 10: Report of Verus — Data Link

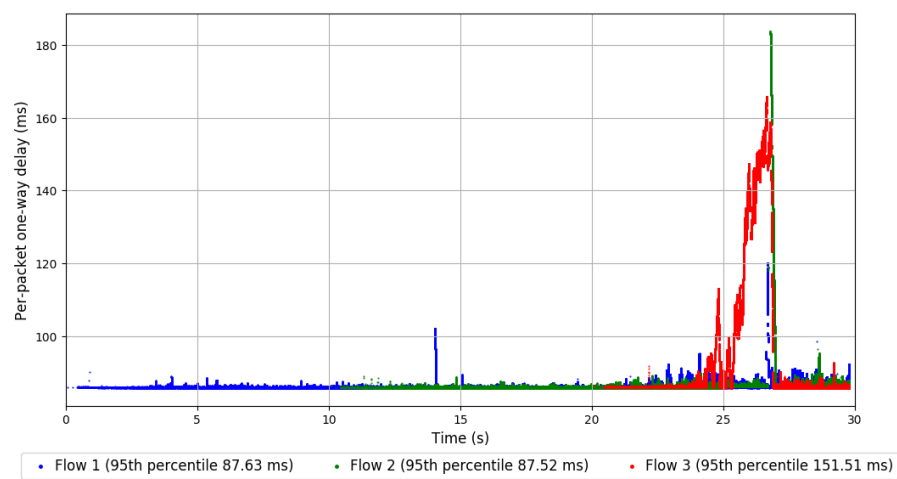
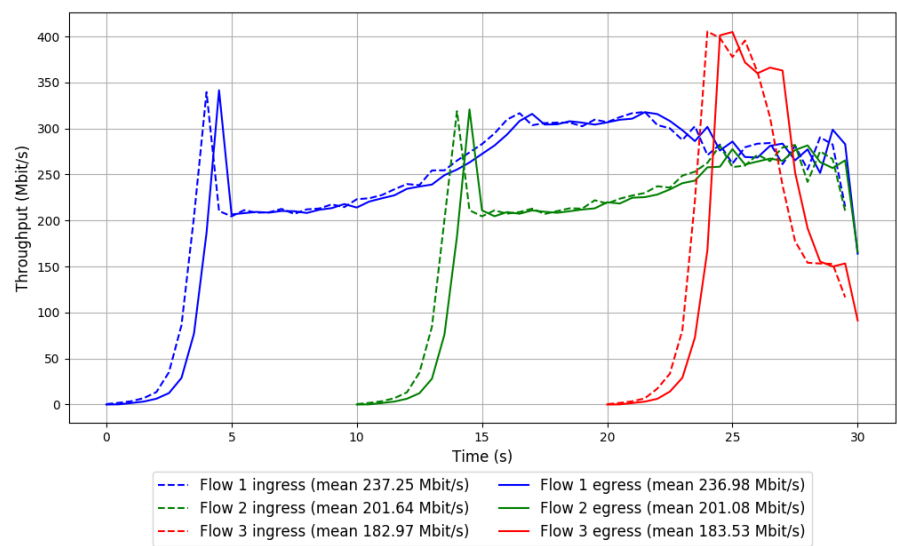


Run 1: Statistics of PCC-Vivace

Start at: 2018-07-10 13:22:52
End at: 2018-07-10 13:23:22
Local clock offset: -0.139 ms
Remote clock offset: -0.011 ms

Below is generated by plot.py at 2018-07-10 19:27:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 430.11 Mbit/s
95th percentile per-packet one-way delay: 101.653 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 236.98 Mbit/s
95th percentile per-packet one-way delay: 87.629 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 201.08 Mbit/s
95th percentile per-packet one-way delay: 87.519 ms
Loss rate: 1.14%
-- Flow 3:
Average throughput: 183.53 Mbit/s
95th percentile per-packet one-way delay: 151.510 ms
Loss rate: 1.46%

Run 1: Report of PCC-Vivace — Data Link

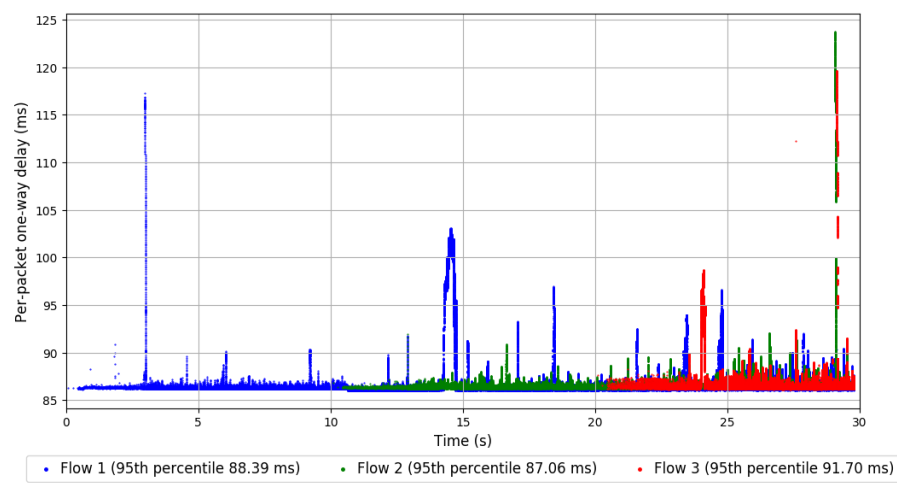
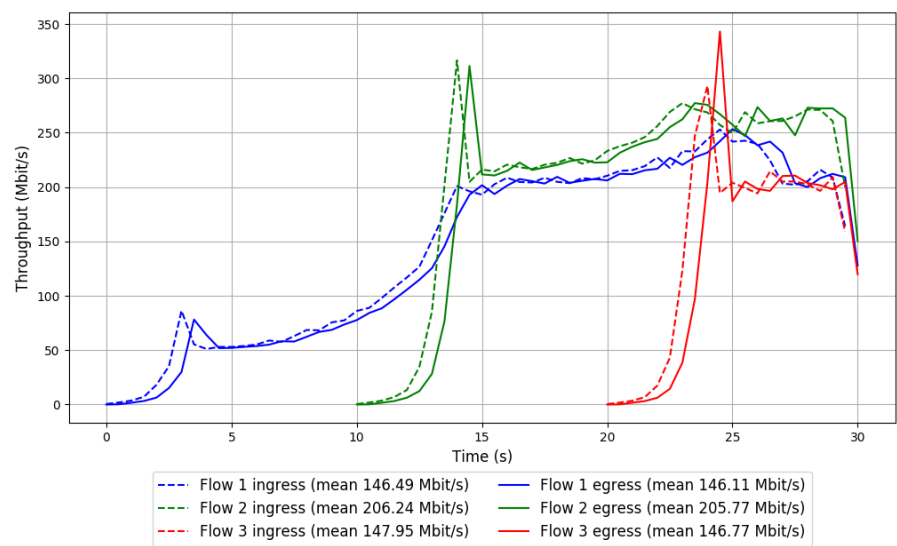


Run 2: Statistics of PCC-Vivace

Start at: 2018-07-10 13:46:56
End at: 2018-07-10 13:47:26
Local clock offset: 0.138 ms
Remote clock offset: -0.016 ms

Below is generated by plot.py at 2018-07-10 19:27:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 330.39 Mbit/s
95th percentile per-packet one-way delay: 87.745 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 146.11 Mbit/s
95th percentile per-packet one-way delay: 88.388 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 205.77 Mbit/s
95th percentile per-packet one-way delay: 87.056 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 146.77 Mbit/s
95th percentile per-packet one-way delay: 91.705 ms
Loss rate: 2.62%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-07-10 14:11:32

End at: 2018-07-10 14:12:02

Local clock offset: 0.027 ms

Remote clock offset: 0.031 ms

Below is generated by plot.py at 2018-07-10 19:29:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 469.41 Mbit/s

95th percentile per-packet one-way delay: 87.390 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 295.13 Mbit/s

95th percentile per-packet one-way delay: 87.216 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 188.47 Mbit/s

95th percentile per-packet one-way delay: 87.351 ms

Loss rate: 1.09%

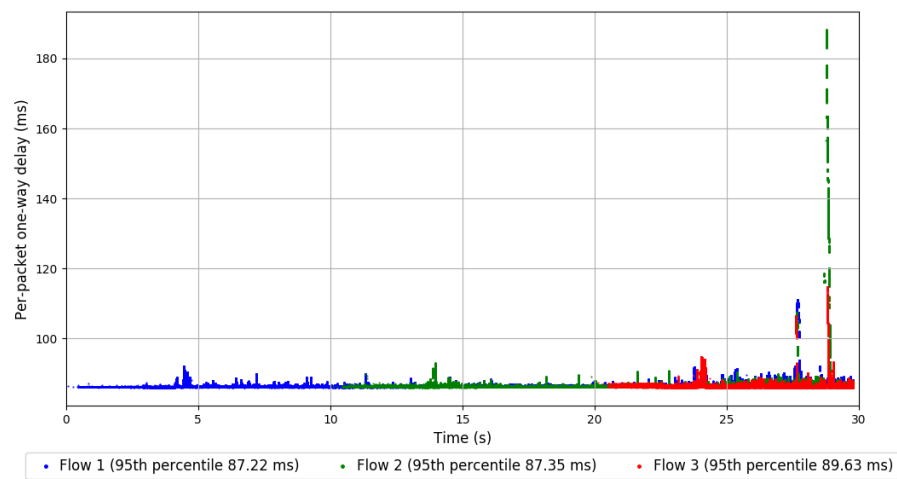
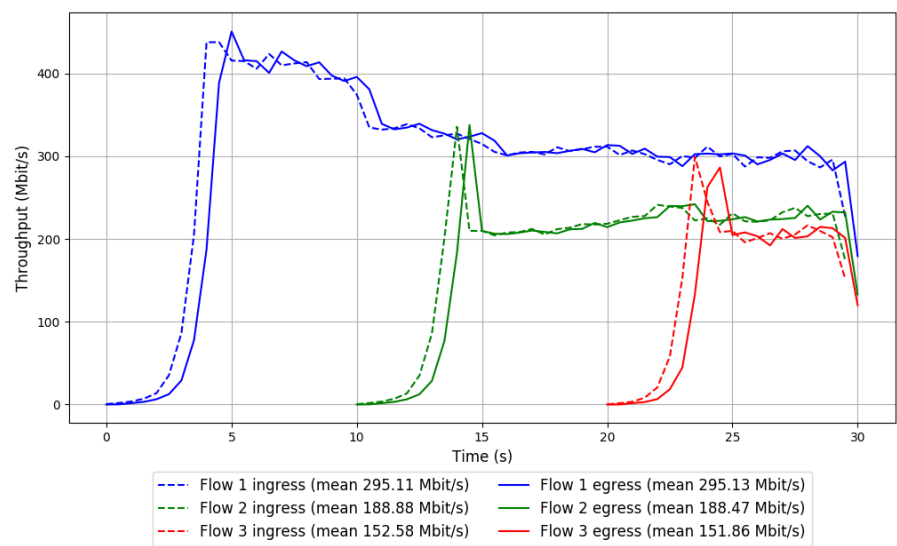
-- Flow 3:

Average throughput: 151.86 Mbit/s

95th percentile per-packet one-way delay: 89.629 ms

Loss rate: 2.24%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-07-10 14:36:16

End at: 2018-07-10 14:36:46

Local clock offset: 0.046 ms

Remote clock offset: 0.004 ms

Below is generated by plot.py at 2018-07-10 19:31:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 502.84 Mbit/s

95th percentile per-packet one-way delay: 89.499 ms

Loss rate: 1.00%

-- Flow 1:

Average throughput: 314.85 Mbit/s

95th percentile per-packet one-way delay: 90.648 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 213.26 Mbit/s

95th percentile per-packet one-way delay: 88.307 ms

Loss rate: 1.17%

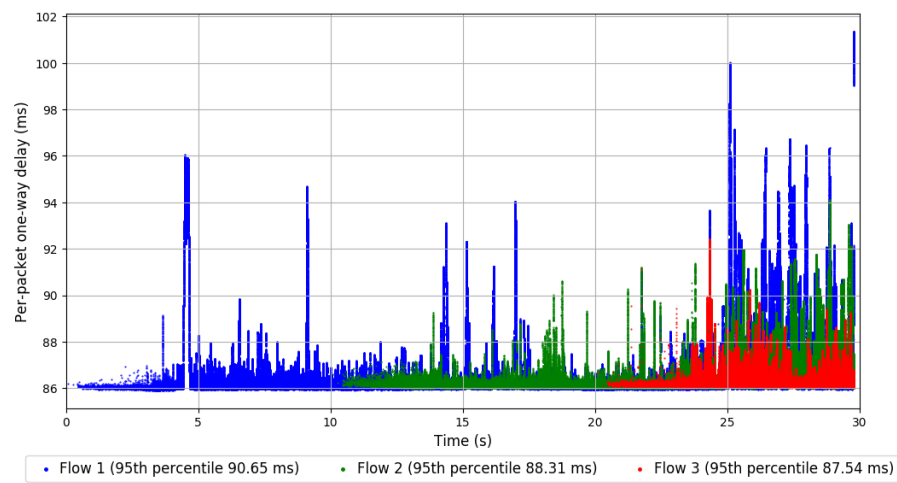
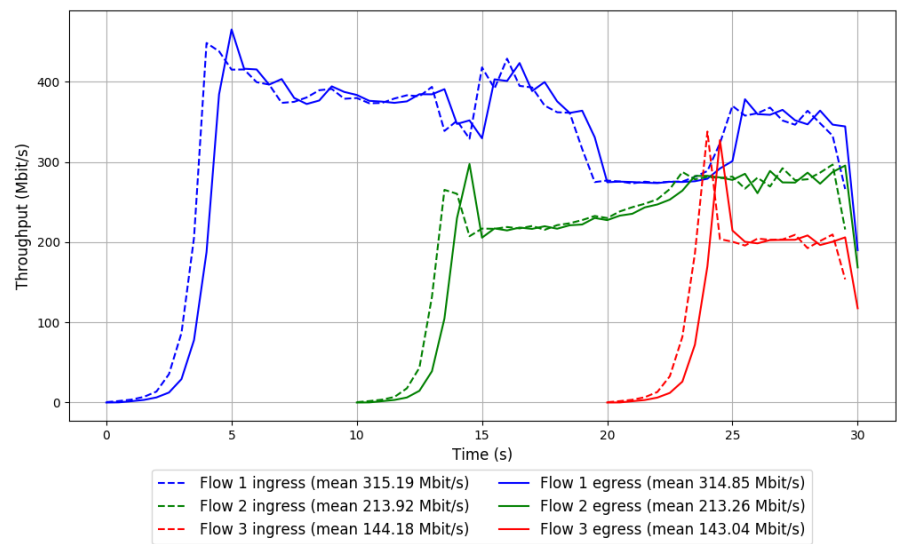
-- Flow 3:

Average throughput: 143.04 Mbit/s

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

Loss rate: 2.53%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-07-10 15:00:47

End at: 2018-07-10 15:01:17

Local clock offset: -0.041 ms

Remote clock offset: 0.031 ms

Below is generated by plot.py at 2018-07-10 19:31:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 504.60 Mbit/s

95th percentile per-packet one-way delay: 90.714 ms

Loss rate: 1.08%

-- Flow 1:

Average throughput: 302.74 Mbit/s

95th percentile per-packet one-way delay: 89.728 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 233.20 Mbit/s

95th percentile per-packet one-way delay: 90.857 ms

Loss rate: 1.12%

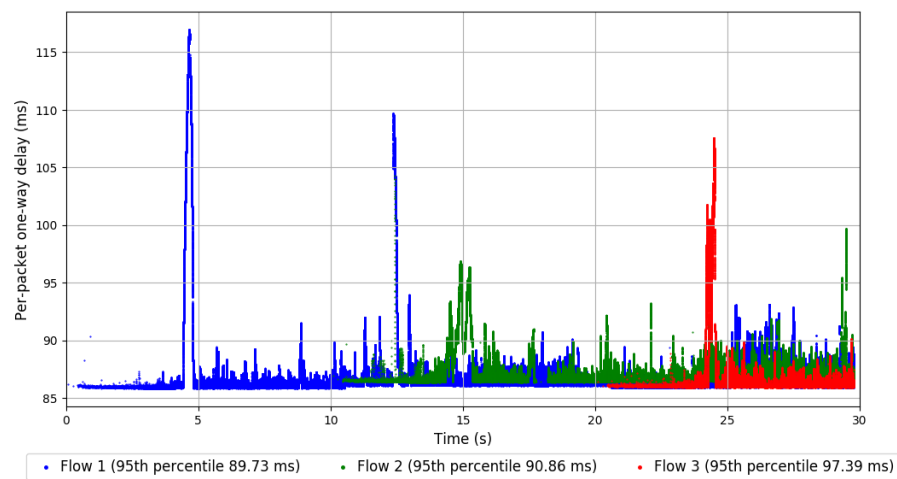
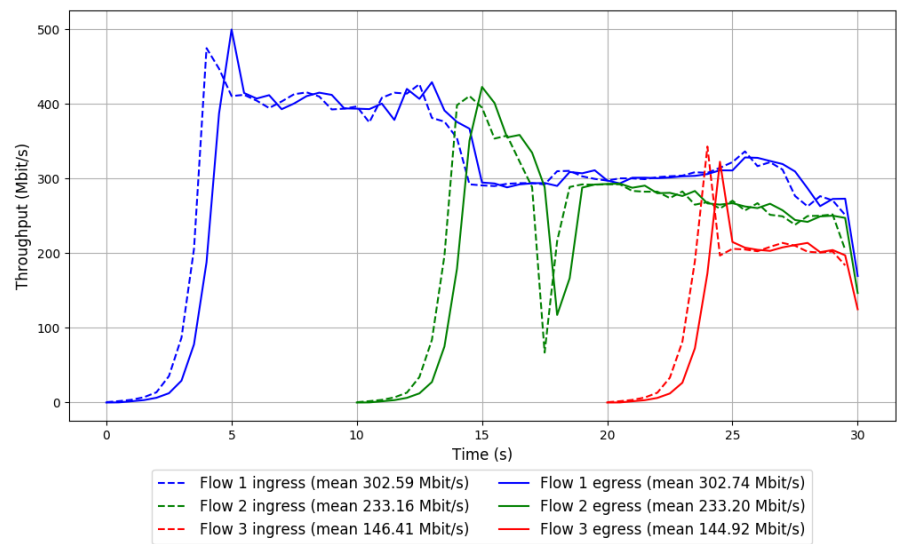
-- Flow 3:

Average throughput: 144.92 Mbit/s

95th percentile per-packet one-way delay: 97.393 ms

Loss rate: 3.30%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-07-10 15:25:29

End at: 2018-07-10 15:25:59

Local clock offset: 0.239 ms

Remote clock offset: 0.084 ms

Below is generated by plot.py at 2018-07-10 19:31:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 470.13 Mbit/s

95th percentile per-packet one-way delay: 91.528 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 302.94 Mbit/s

95th percentile per-packet one-way delay: 92.721 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 179.96 Mbit/s

95th percentile per-packet one-way delay: 87.817 ms

Loss rate: 0.88%

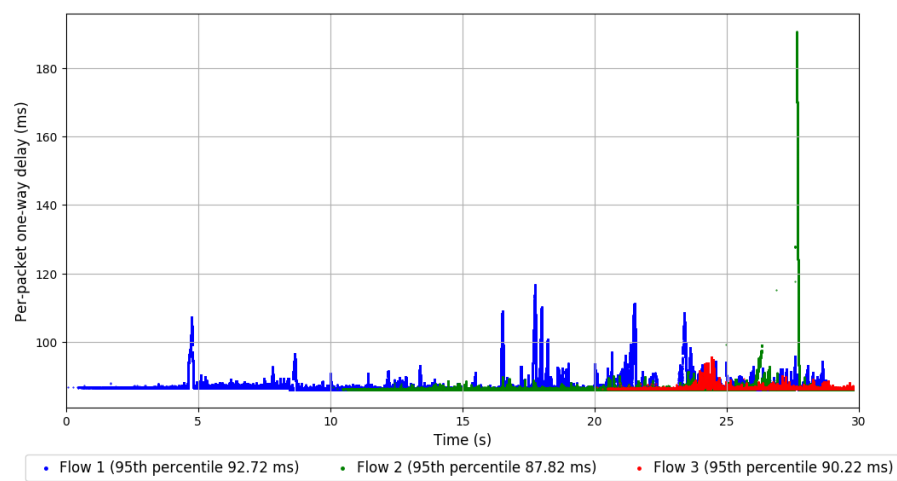
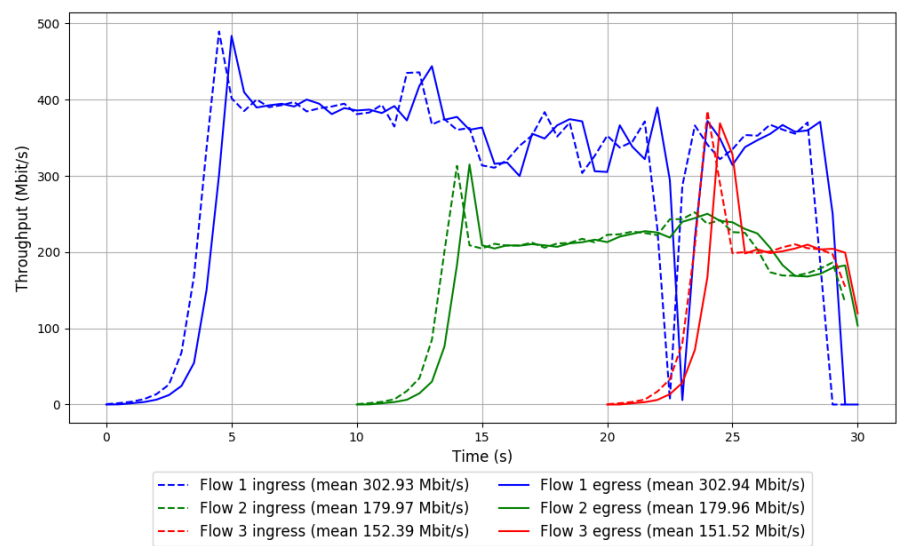
-- Flow 3:

Average throughput: 151.52 Mbit/s

95th percentile per-packet one-way delay: 90.223 ms

Loss rate: 2.32%

Run 6: Report of PCC-Vivace — Data Link

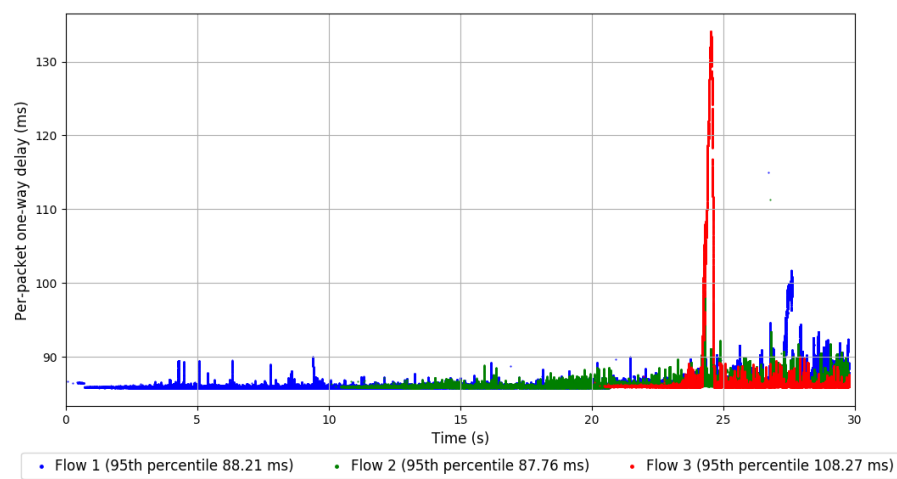
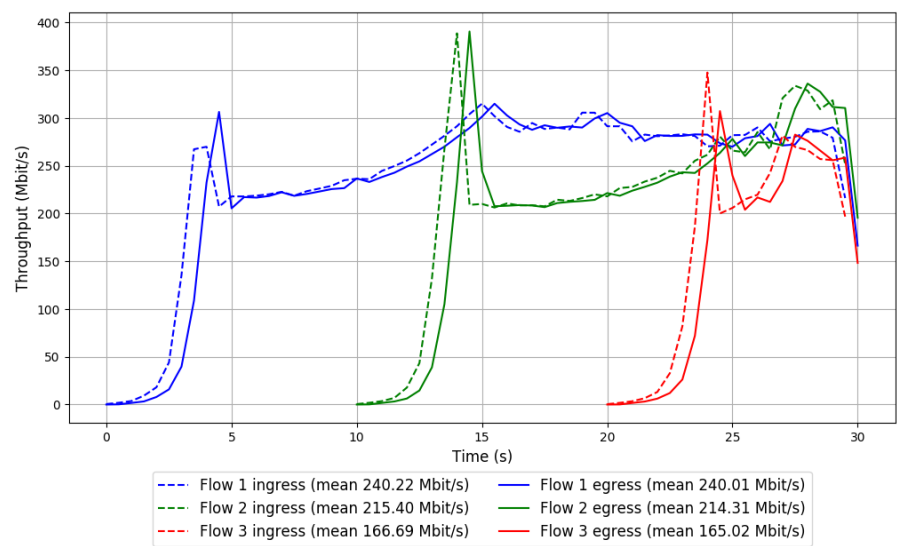


Run 7: Statistics of PCC-Vivace

Start at: 2018-07-10 15:50:17
End at: 2018-07-10 15:50:47
Local clock offset: -0.17 ms
Remote clock offset: -0.002 ms

Below is generated by plot.py at 2018-07-10 19:31:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 435.92 Mbit/s
95th percentile per-packet one-way delay: 88.325 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 240.01 Mbit/s
95th percentile per-packet one-way delay: 88.211 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 214.31 Mbit/s
95th percentile per-packet one-way delay: 87.762 ms
Loss rate: 1.37%
-- Flow 3:
Average throughput: 165.02 Mbit/s
95th percentile per-packet one-way delay: 108.266 ms
Loss rate: 2.74%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-07-10 16:14:52

End at: 2018-07-10 16:15:22

Local clock offset: -0.058 ms

Remote clock offset: 0.015 ms

Below is generated by plot.py at 2018-07-10 19:31:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 443.41 Mbit/s

95th percentile per-packet one-way delay: 88.819 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 301.04 Mbit/s

95th percentile per-packet one-way delay: 90.387 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 206.05 Mbit/s

95th percentile per-packet one-way delay: 86.889 ms

Loss rate: 0.85%

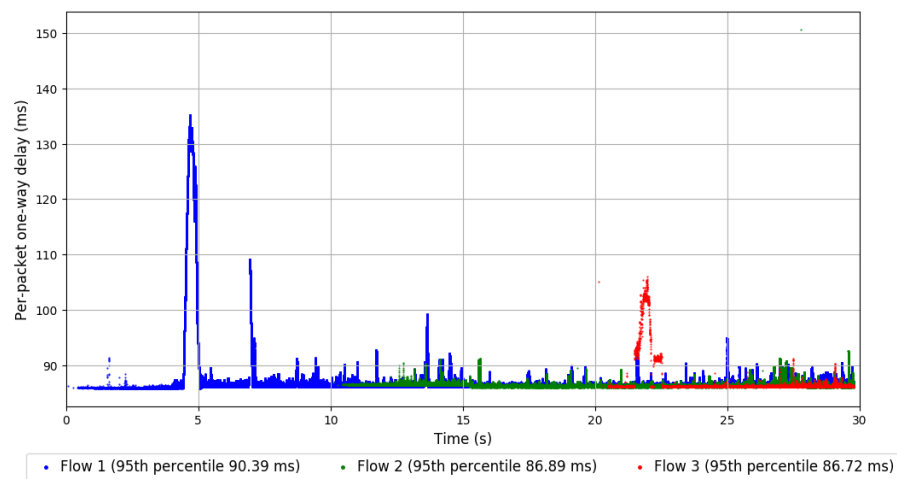
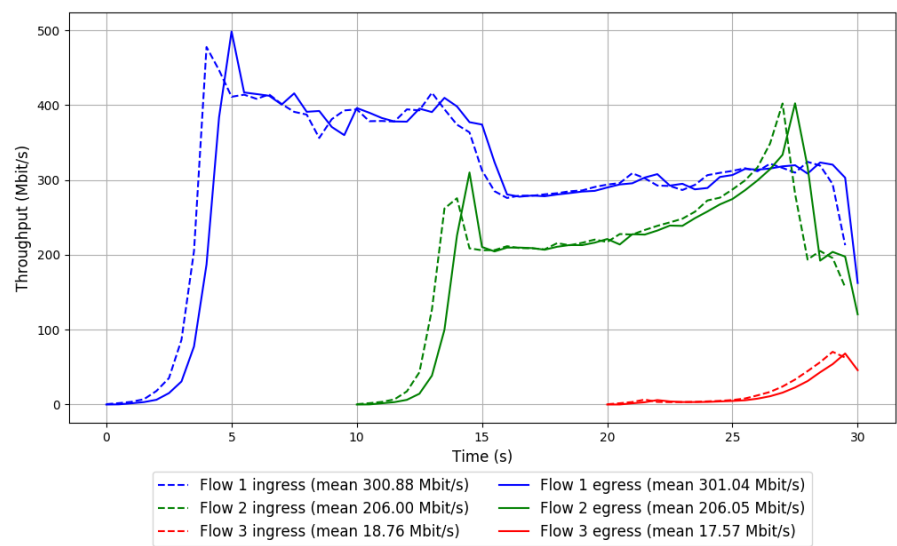
-- Flow 3:

Average throughput: 17.57 Mbit/s

95th percentile per-packet one-way delay: 86.717 ms

Loss rate: 8.15%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-07-10 16:39:22

End at: 2018-07-10 16:39:52

Local clock offset: 0.084 ms

Remote clock offset: 0.073 ms

Below is generated by plot.py at 2018-07-10 19:32:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 399.41 Mbit/s

95th percentile per-packet one-way delay: 221.873 ms

Loss rate: 1.16%

-- Flow 1:

Average throughput: 224.75 Mbit/s

95th percentile per-packet one-way delay: 195.078 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 190.83 Mbit/s

95th percentile per-packet one-way delay: 303.486 ms

Loss rate: 1.22%

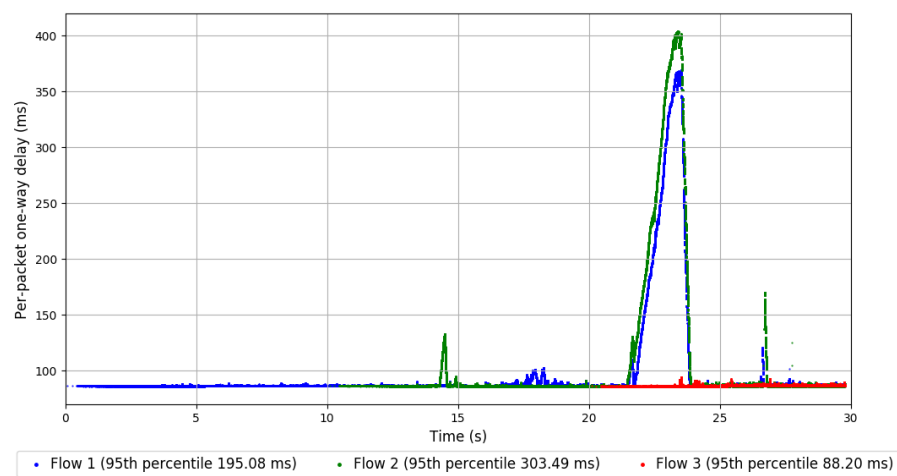
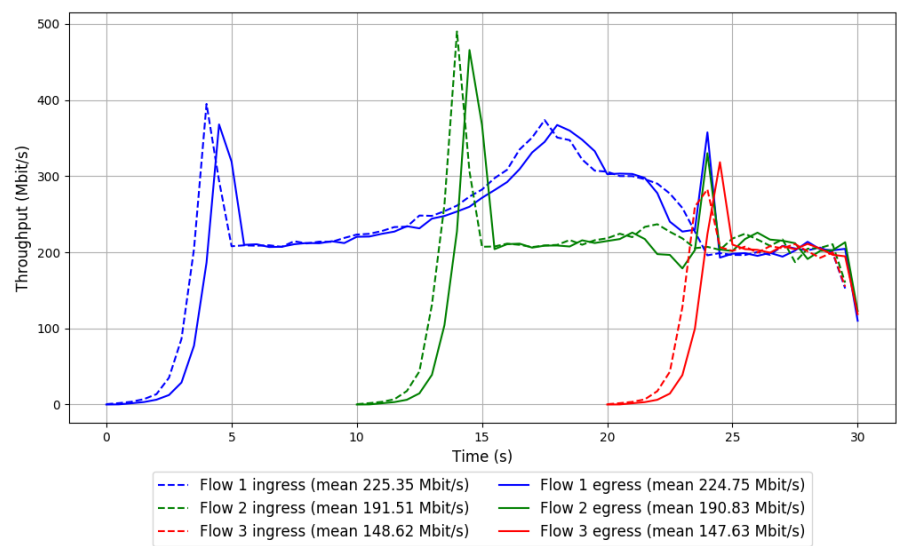
-- Flow 3:

Average throughput: 147.63 Mbit/s

95th percentile per-packet one-way delay: 88.196 ms

Loss rate: 2.41%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-07-10 17:03:37

End at: 2018-07-10 17:04:07

Local clock offset: -0.016 ms

Remote clock offset: 0.053 ms

Below is generated by plot.py at 2018-07-10 19:32:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 446.99 Mbit/s

95th percentile per-packet one-way delay: 118.257 ms

Loss rate: 1.08%

-- Flow 1:

Average throughput: 271.29 Mbit/s

95th percentile per-packet one-way delay: 152.735 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 196.31 Mbit/s

95th percentile per-packet one-way delay: 87.916 ms

Loss rate: 1.05%

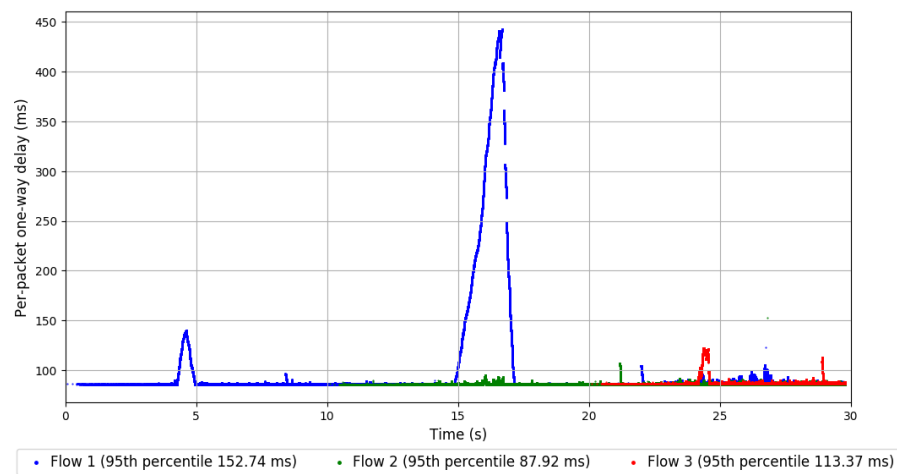
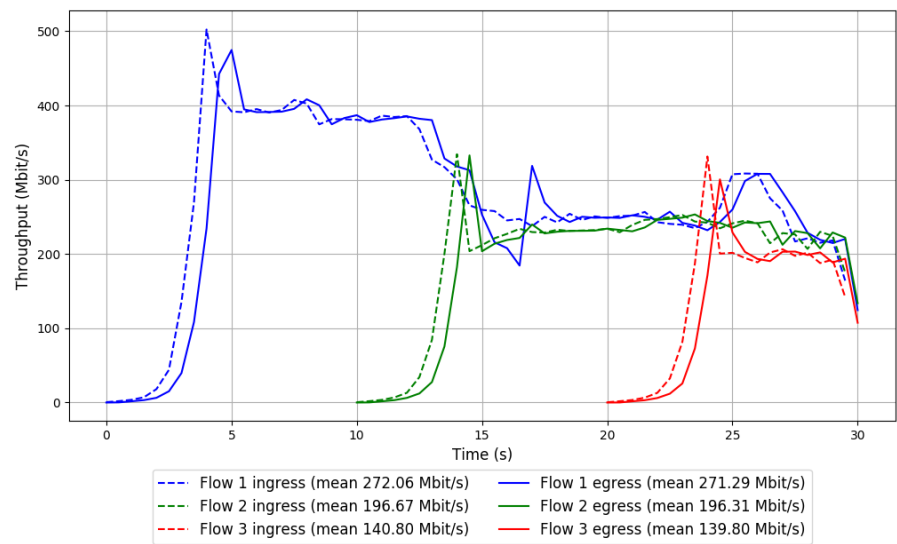
-- Flow 3:

Average throughput: 139.80 Mbit/s

95th percentile per-packet one-way delay: 113.374 ms

Loss rate: 2.45%

Run 10: Report of PCC-Vivace — Data Link

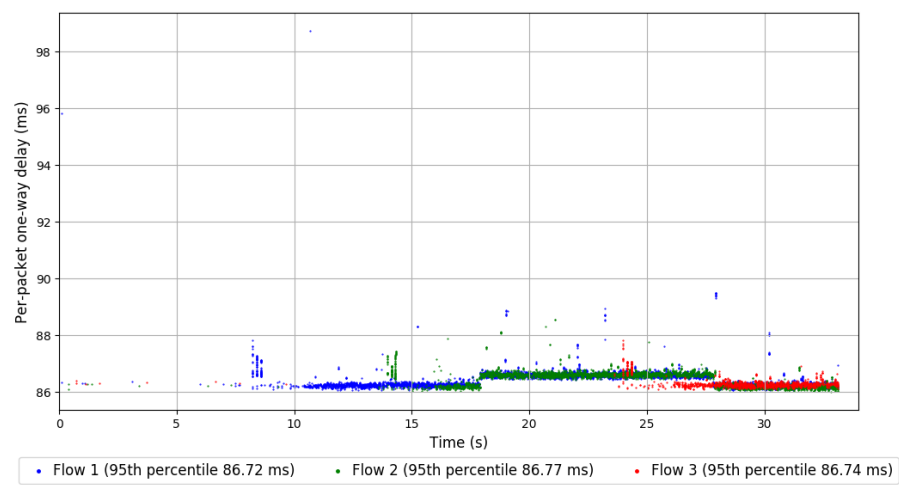
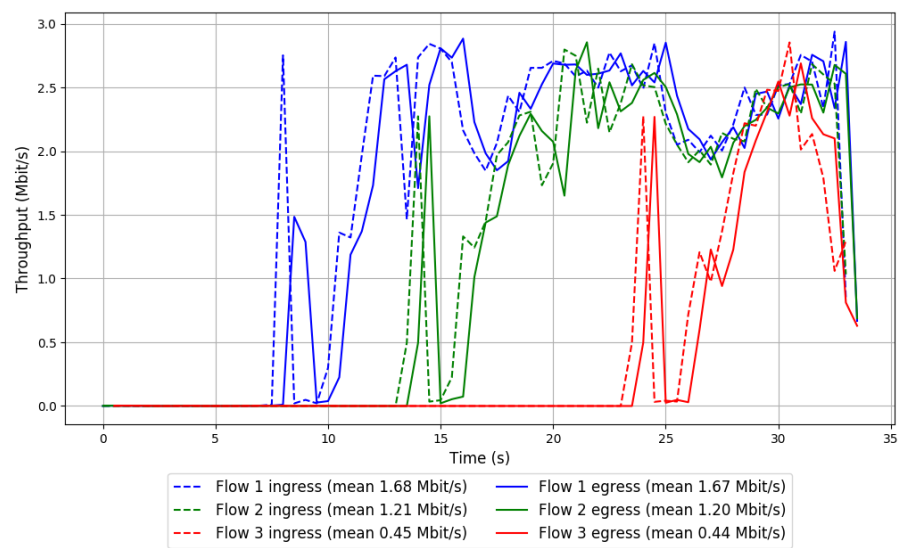


Run 1: Statistics of WebRTC media

Start at: 2018-07-10 13:09:03
End at: 2018-07-10 13:09:33
Local clock offset: 0.104 ms
Remote clock offset: -0.007 ms

Below is generated by plot.py at 2018-07-10 19:32:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.30 Mbit/s
95th percentile per-packet one-way delay: 86.746 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 1.67 Mbit/s
95th percentile per-packet one-way delay: 86.724 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 1.20 Mbit/s
95th percentile per-packet one-way delay: 86.767 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.743 ms
Loss rate: 3.24%

Run 1: Report of WebRTC media — Data Link

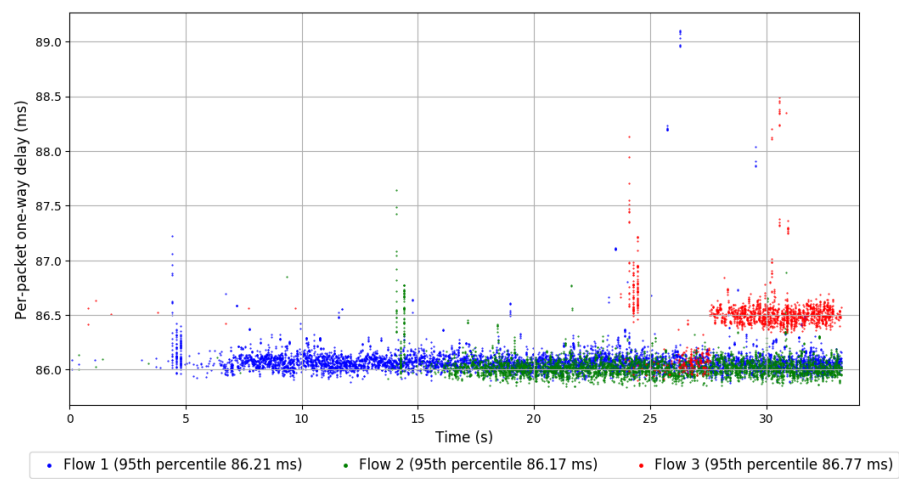
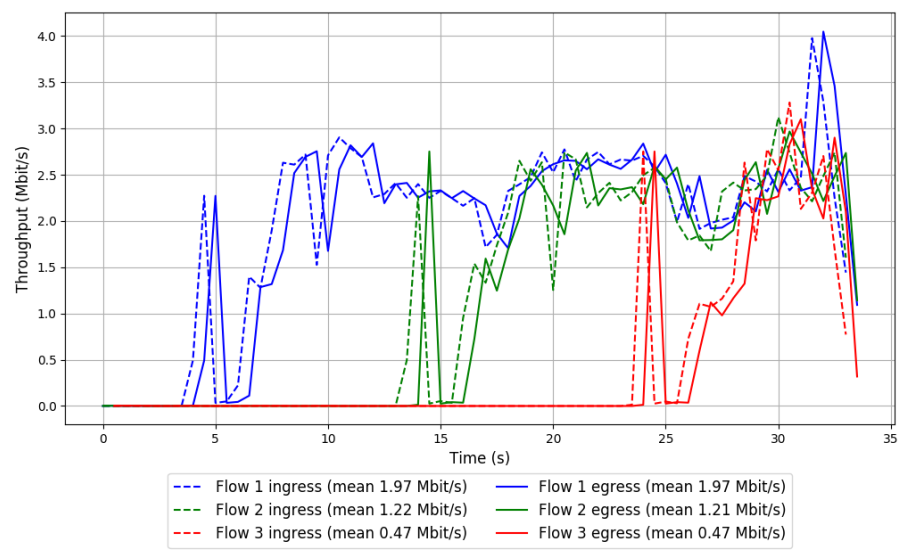


Run 2: Statistics of WebRTC media

Start at: 2018-07-10 13:33:13
End at: 2018-07-10 13:33:43
Local clock offset: -0.032 ms
Remote clock offset: -0.028 ms

Below is generated by plot.py at 2018-07-10 19:32:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.63 Mbit/s
95th percentile per-packet one-way delay: 86.534 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 86.208 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 1.21 Mbit/s
95th percentile per-packet one-way delay: 86.165 ms
Loss rate: 1.14%
-- Flow 3:
Average throughput: 0.47 Mbit/s
95th percentile per-packet one-way delay: 86.771 ms
Loss rate: 1.64%

Run 2: Report of WebRTC media — Data Link

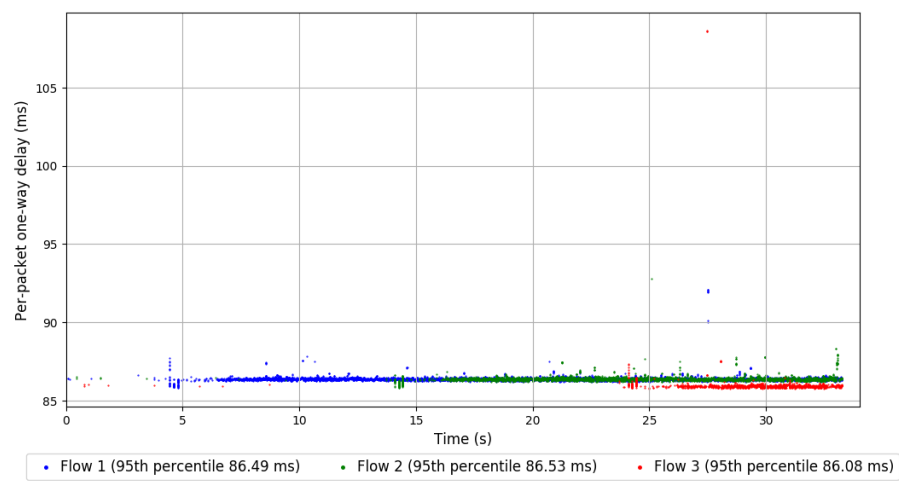
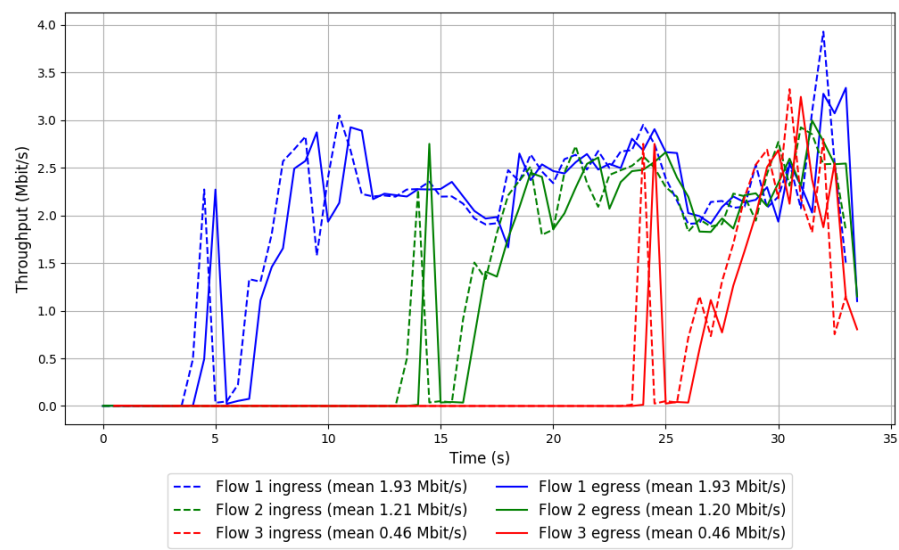


Run 3: Statistics of WebRTC media

Start at: 2018-07-10 13:57:35
End at: 2018-07-10 13:58:05
Local clock offset: -0.162 ms
Remote clock offset: -0.016 ms

Below is generated by plot.py at 2018-07-10 19:32:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.57 Mbit/s
95th percentile per-packet one-way delay: 86.493 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 86.489 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 1.20 Mbit/s
95th percentile per-packet one-way delay: 86.525 ms
Loss rate: 1.44%
-- Flow 3:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 86.079 ms
Loss rate: 1.90%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

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

End at: 2018-07-10 14:22:52

Local clock offset: -0.11 ms

Remote clock offset: 0.018 ms

Below is generated by plot.py at 2018-07-10 19:32:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.61 Mbit/s

95th percentile per-packet one-way delay: 86.236 ms

Loss rate: 1.42%

-- Flow 1:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 86.224 ms

Loss rate: 0.90%

-- Flow 2:

Average throughput: 1.23 Mbit/s

95th percentile per-packet one-way delay: 86.097 ms

Loss rate: 1.56%

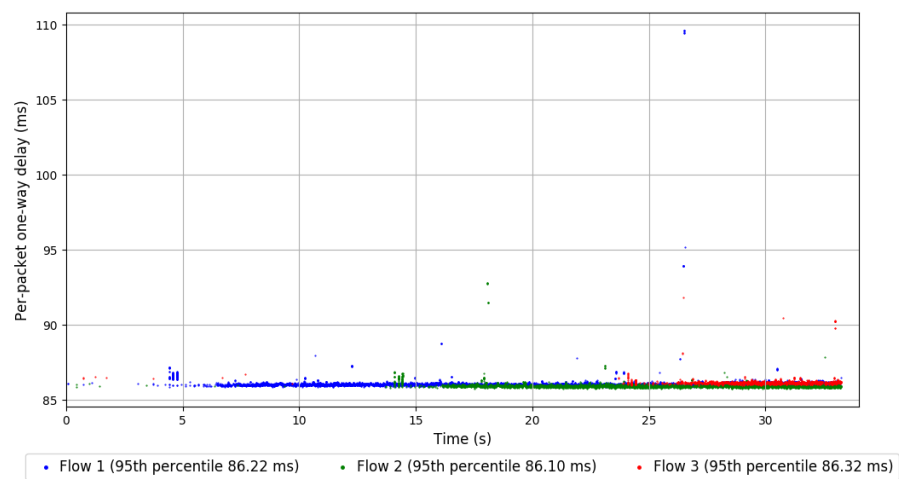
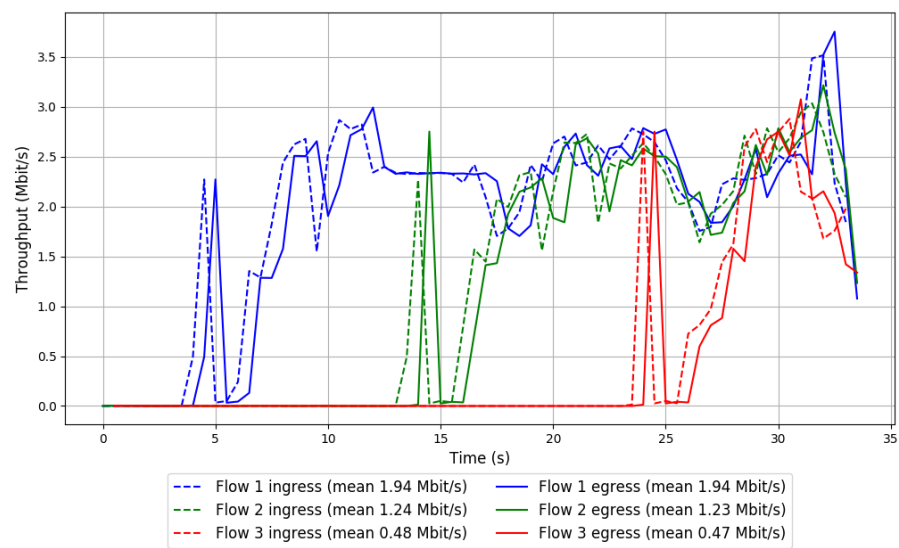
-- Flow 3:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 86.319 ms

Loss rate: 3.22%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-07-10 14:46:52

End at: 2018-07-10 14:47:22

Local clock offset: -0.142 ms

Remote clock offset: 0.021 ms

Below is generated by plot.py at 2018-07-10 19:32:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.63 Mbit/s

95th percentile per-packet one-way delay: 86.255 ms

Loss rate: 1.19%

-- Flow 1:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 86.261 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 86.102 ms

Loss rate: 1.40%

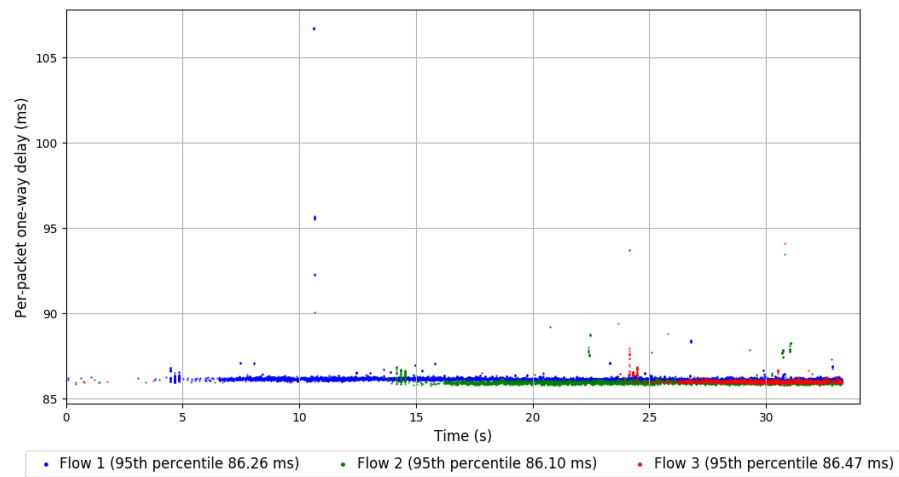
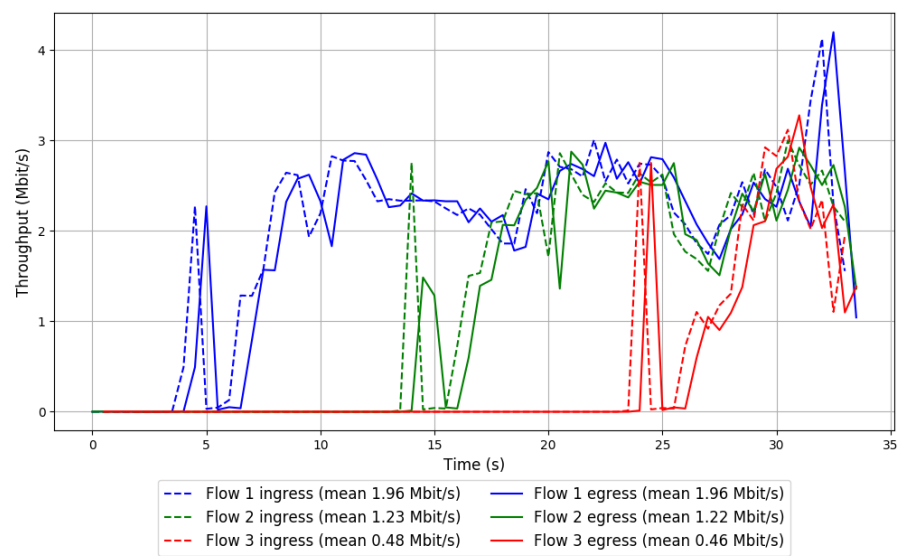
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 86.472 ms

Loss rate: 3.15%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-07-10 15:11:40

End at: 2018-07-10 15:12:10

Local clock offset: 0.071 ms

Remote clock offset: 0.043 ms

Below is generated by plot.py at 2018-07-10 19:32:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.62 Mbit/s

95th percentile per-packet one-way delay: 86.790 ms

Loss rate: 1.06%

-- Flow 1:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 86.779 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 1.20 Mbit/s

95th percentile per-packet one-way delay: 86.850 ms

Loss rate: 1.22%

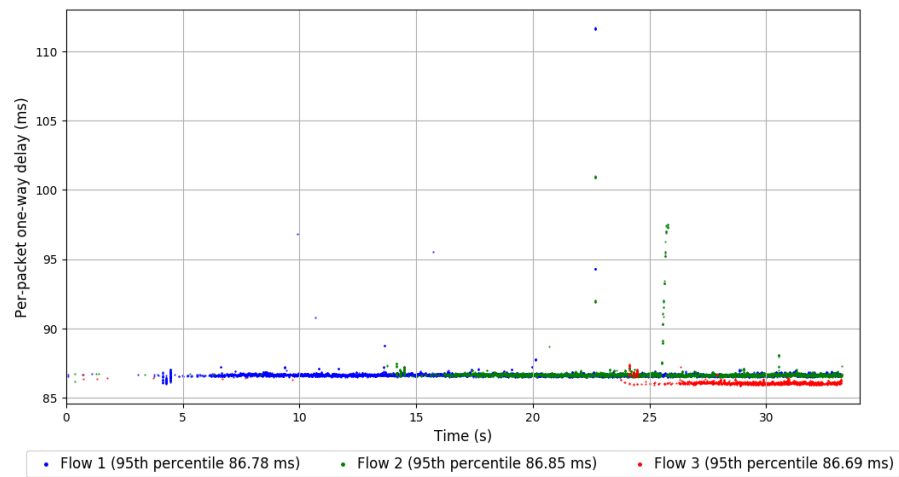
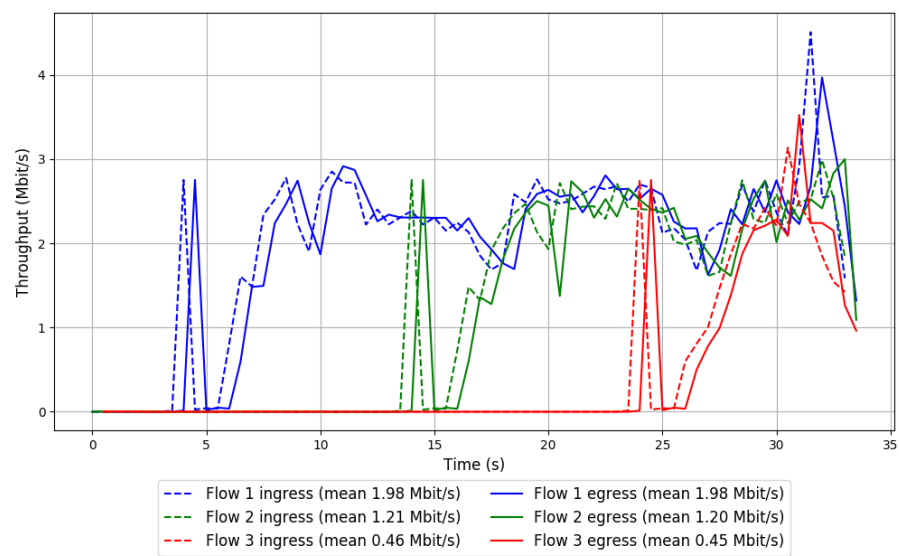
-- Flow 3:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 86.687 ms

Loss rate: 2.64%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-07-10 15:36:22

End at: 2018-07-10 15:36:52

Local clock offset: 0.174 ms

Remote clock offset: 0.018 ms

Below is generated by plot.py at 2018-07-10 19:32:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.60 Mbit/s

95th percentile per-packet one-way delay: 86.893 ms

Loss rate: 1.04%

-- Flow 1:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 86.915 ms

Loss rate: 0.74%

-- Flow 2:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 86.567 ms

Loss rate: 1.15%

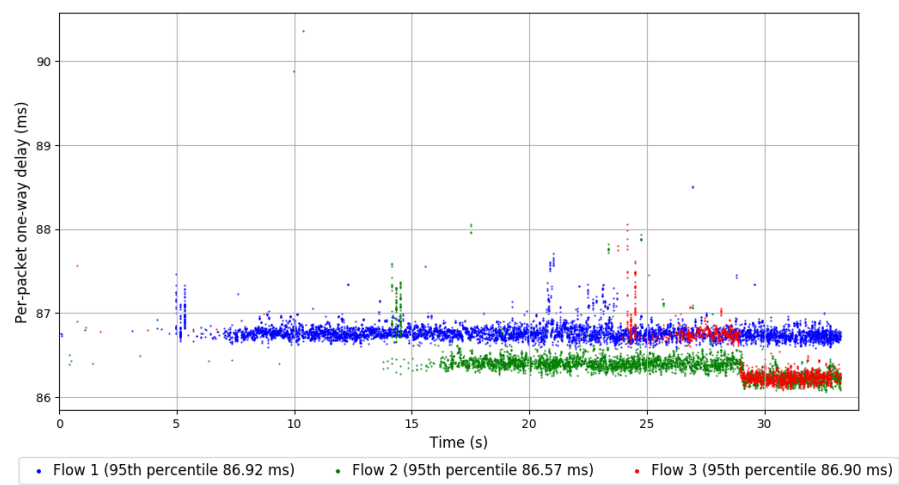
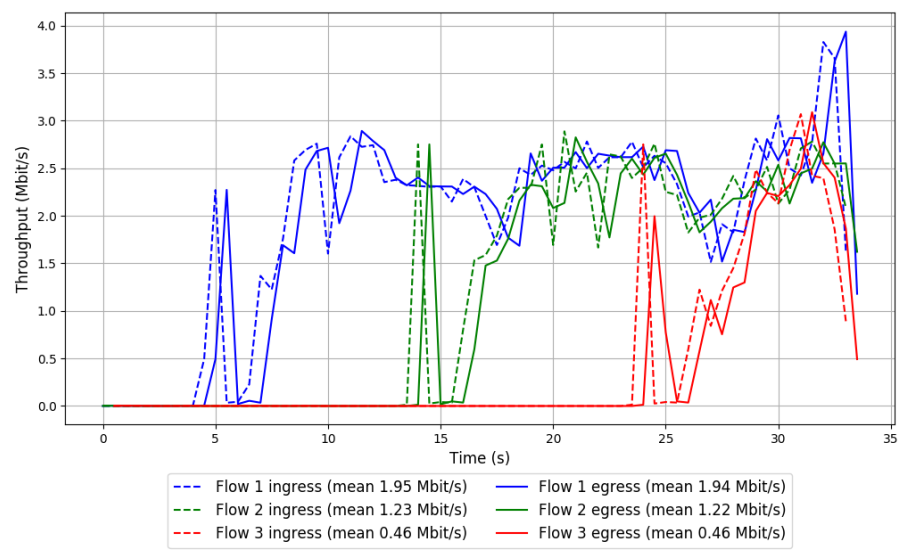
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 86.898 ms

Loss rate: 2.03%

Run 7: Report of WebRTC media — Data Link

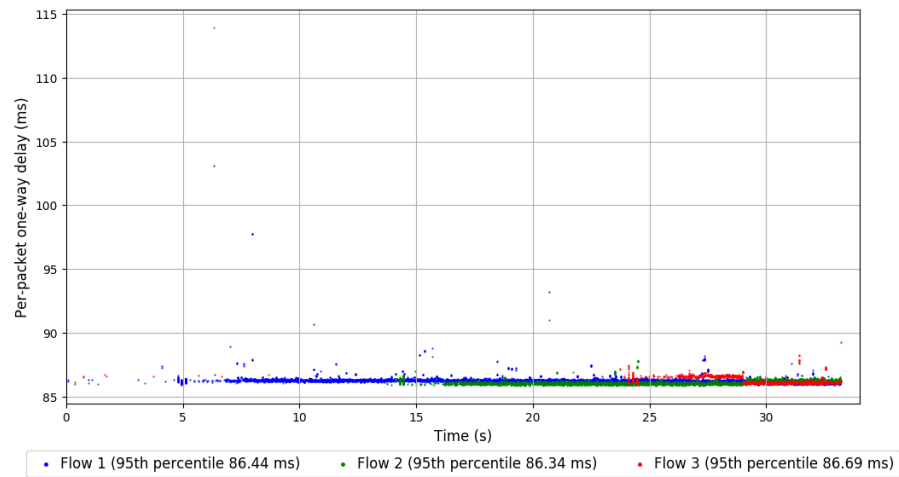
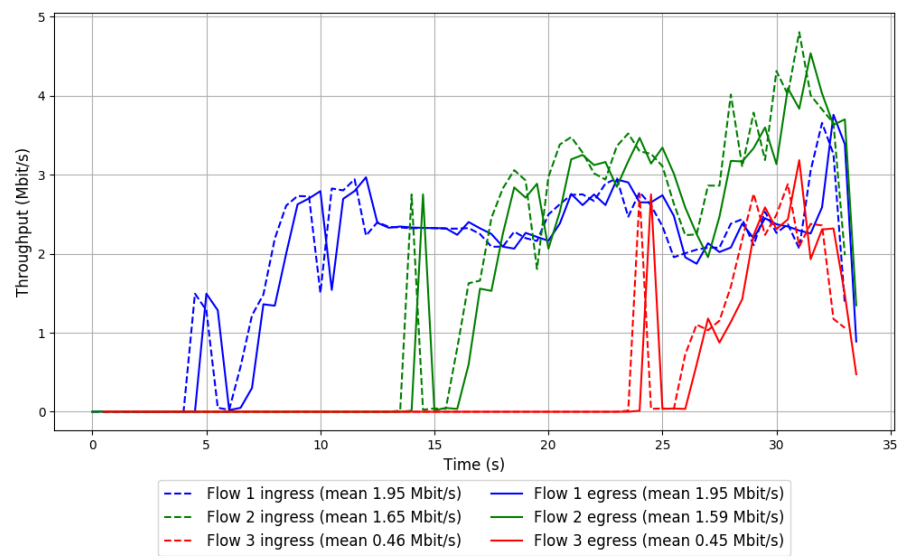


Run 8: Statistics of WebRTC media

Start at: 2018-07-10 16:01:01
End at: 2018-07-10 16:01:31
Local clock offset: -0.058 ms
Remote clock offset: -0.012 ms

Below is generated by plot.py at 2018-07-10 19:32:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.97 Mbit/s
95th percentile per-packet one-way delay: 86.530 ms
Loss rate: 2.40%
-- Flow 1:
Average throughput: 1.95 Mbit/s
95th percentile per-packet one-way delay: 86.438 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 1.59 Mbit/s
95th percentile per-packet one-way delay: 86.339 ms
Loss rate: 4.38%
-- Flow 3:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 86.693 ms
Loss rate: 2.43%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-07-10 16:25:29

End at: 2018-07-10 16:25:59

Local clock offset: -0.159 ms

Remote clock offset: 0.027 ms

Below is generated by plot.py at 2018-07-10 19:32:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.60 Mbit/s

95th percentile per-packet one-way delay: 86.163 ms

Loss rate: 1.13%

-- Flow 1:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 86.123 ms

Loss rate: 0.68%

-- Flow 2:

Average throughput: 1.20 Mbit/s

95th percentile per-packet one-way delay: 86.104 ms

Loss rate: 1.05%

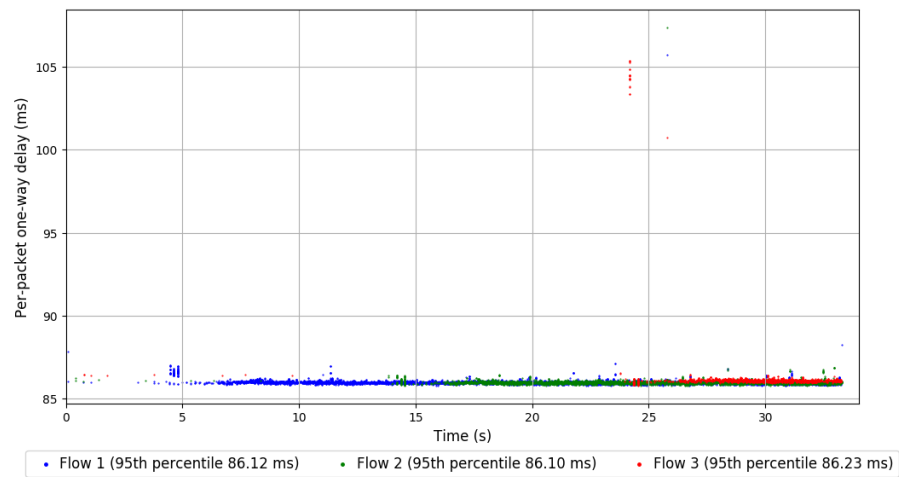
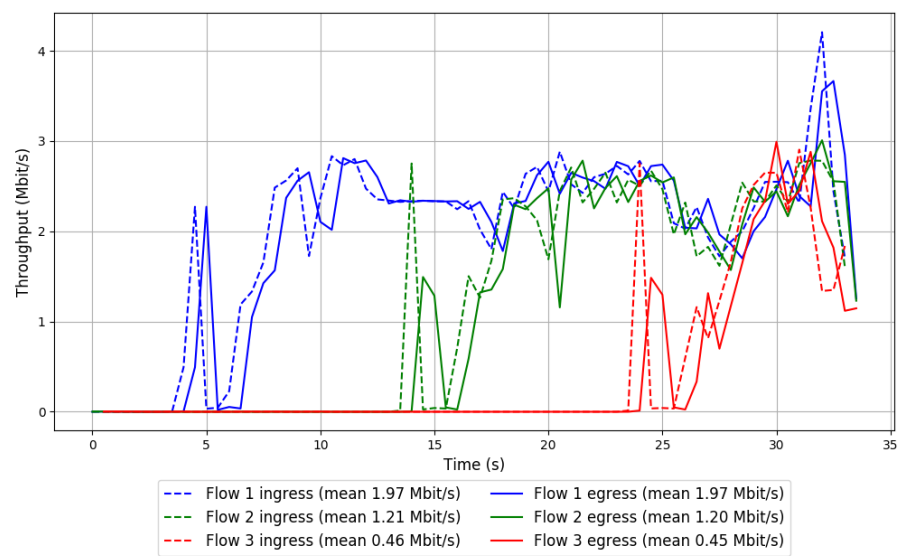
-- Flow 3:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 86.229 ms

Loss rate: 3.25%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-07-10 16:49:50

End at: 2018-07-10 16:50:20

Local clock offset: 0.016 ms

Remote clock offset: 0.043 ms

Below is generated by plot.py at 2018-07-10 19:32:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.62 Mbit/s

95th percentile per-packet one-way delay: 86.767 ms

Loss rate: 0.95%

-- Flow 1:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 86.744 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 86.794 ms

Loss rate: 1.22%

-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 86.770 ms

Loss rate: 1.75%

Run 10: Report of WebRTC media — Data Link

