

## Pantheon Report

Generated at 2018-08-03 17:54:01 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

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

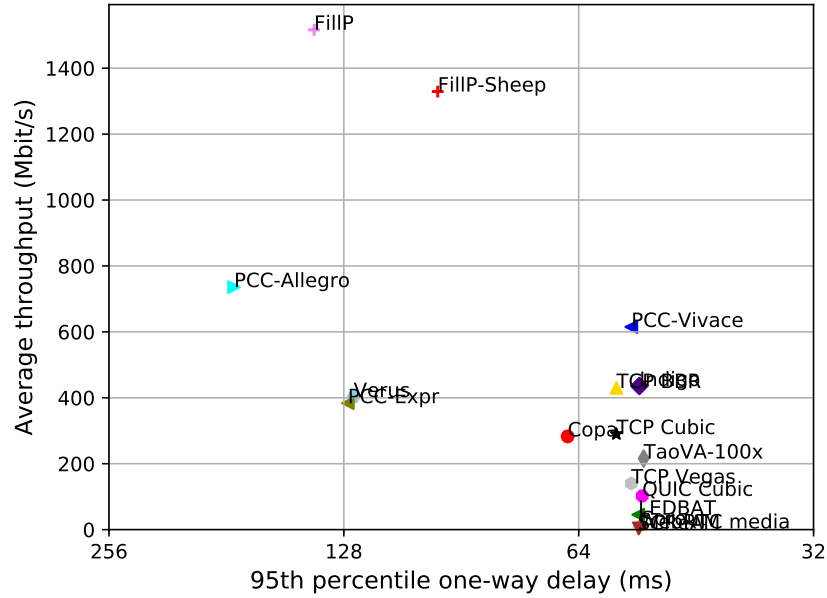
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

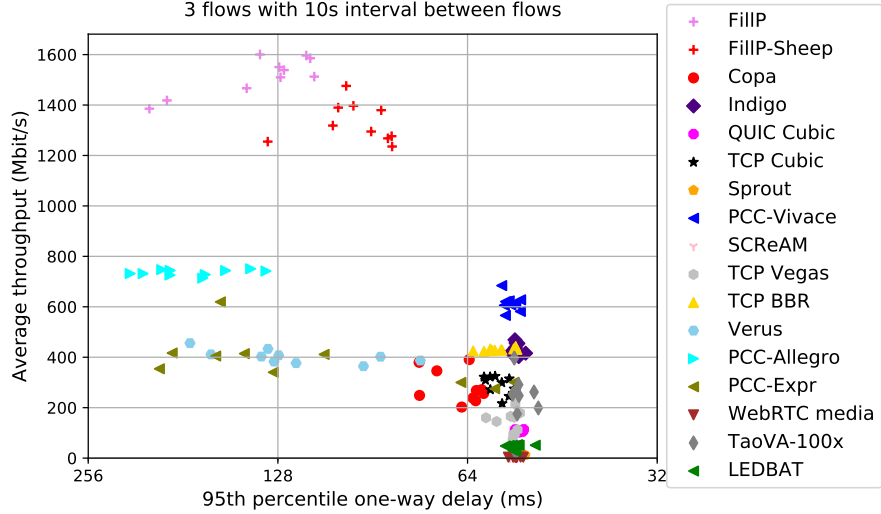
Git summary:

```
branch: master @ 640164b5b17c7c6561fff57729b3b5935d8596ce
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ daed0c84f98531712514b2231f43ec6901114ffe
third_party/genericCC @ 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 Sydney to GCE Tokyo, 10 runs of 30s each per scheme  
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from GCE Sydney to GCE Tokyo, 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	216.85	215.95	208.05	56.15	57.28	58.20	0.01	0.01	0.04
Copa	10	163.88	154.51	79.87	61.58	67.12	58.89	0.00	0.00	0.05
TCP Cubic	10	160.58	139.07	110.85	57.47	56.15	56.22	0.02	0.01	0.02
FillP	10	796.61	744.06	676.68	136.86	135.86	125.32	1.38	1.90	1.35
FillP-Sheep	10	735.84	638.72	508.00	98.73	98.73	67.80	0.11	0.13	0.16
Indigo	10	216.98	232.61	198.04	53.38	53.07	53.57	0.00	0.00	0.00
LEDBAT	10	28.03	21.14	9.87	53.74	53.48	53.31	0.00	0.03	0.00
PCC-Allegro	10	627.96	121.68	81.97	181.32	131.90	129.04	2.56	1.30	1.29
PCC-Expr	10	222.42	171.11	143.74	116.82	85.74	71.11	1.95	0.37	0.09
QUIC Cubic	10	62.25	48.86	23.59	51.74	52.05	52.50	0.00	0.00	0.00
SCReAM	10	0.21	0.21	0.22	53.11	52.82	52.69	0.01	0.00	0.00
Sprout	10	6.91	6.30	6.35	53.21	53.19	52.81	0.00	0.00	0.00
TaoVA-100x	10	78.41	150.05	112.45	53.29	52.60	52.90	0.01	0.00	0.01
TCP Vegas	10	72.69	63.36	75.89	53.93	54.04	54.94	0.01	0.00	0.00
Verus	10	243.80	173.50	135.99	120.64	116.59	131.74	0.66	0.32	1.25
PCC-Vivace	10	370.17	307.95	120.63	54.74	58.44	56.10	0.00	0.00	0.02
WebRTC media	10	2.00	1.27	0.49	52.57	52.64	53.09	0.00	0.00	0.03

Run 1: Statistics of TCP BBR

Start at: 2018-08-03 10:44:46

End at: 2018-08-03 10:45:16

Local clock offset: 0.114 ms

Remote clock offset: 1.139 ms

# Below is generated by plot.py at 2018-08-03 15:17:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 424.77 Mbit/s

95th percentile per-packet one-way delay: 62.704 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 211.84 Mbit/s

95th percentile per-packet one-way delay: 60.728 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 216.91 Mbit/s

95th percentile per-packet one-way delay: 63.965 ms

Loss rate: 0.06%

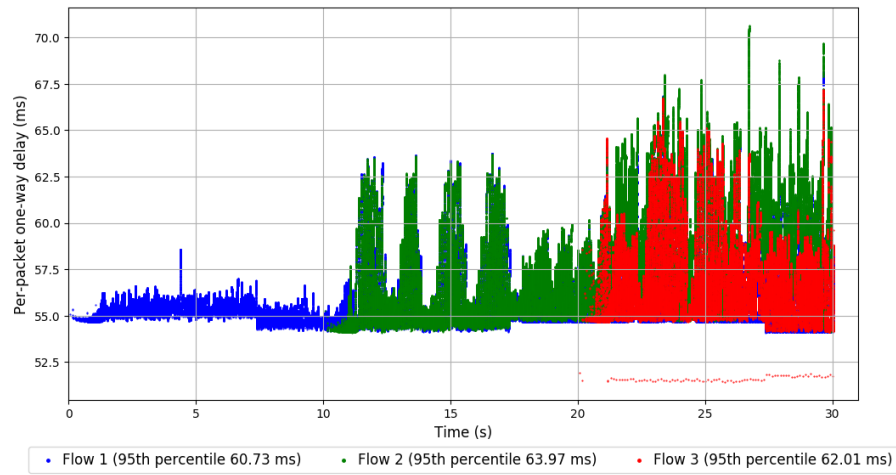
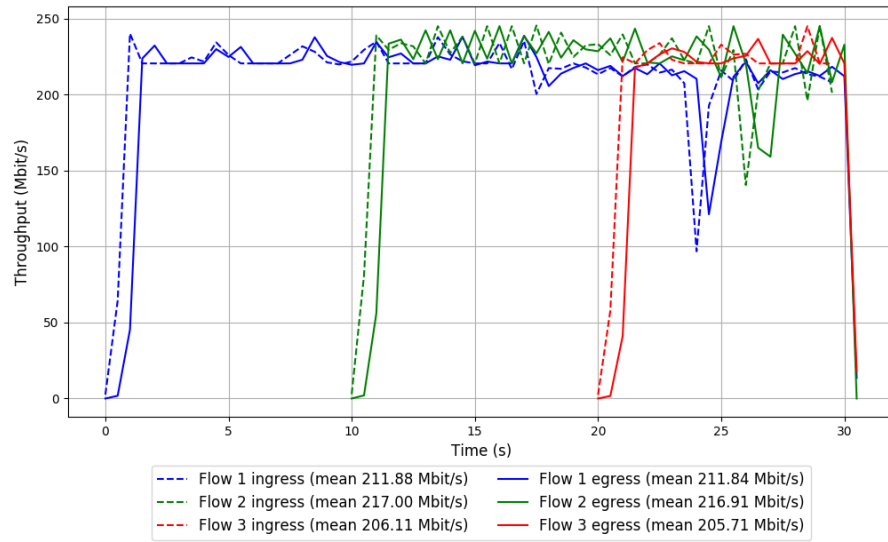
-- Flow 3:

Average throughput: 205.71 Mbit/s

95th percentile per-packet one-way delay: 62.014 ms

Loss rate: 0.16%

# Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

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

End at: 2018-08-03 11:10:44

Local clock offset: -0.039 ms

Remote clock offset: -0.17 ms

# Below is generated by plot.py at 2018-08-03 15:17:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 427.20 Mbit/s

95th percentile per-packet one-way delay: 57.935 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 214.38 Mbit/s

95th percentile per-packet one-way delay: 56.137 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 218.00 Mbit/s

95th percentile per-packet one-way delay: 58.785 ms

Loss rate: 0.02%

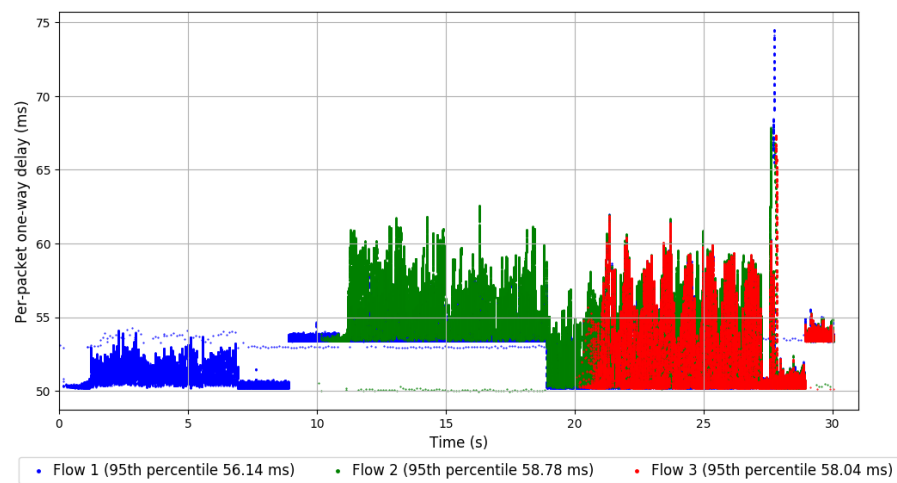
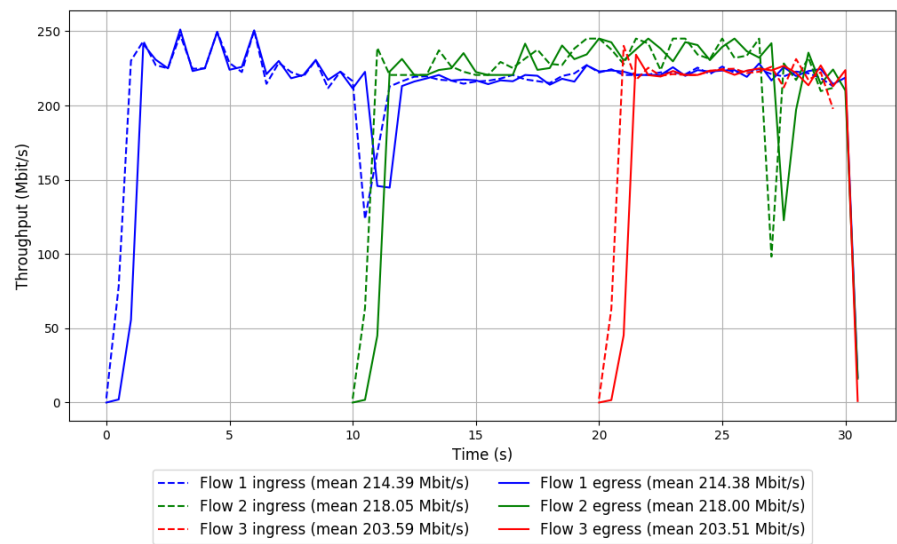
-- Flow 3:

Average throughput: 203.51 Mbit/s

95th percentile per-packet one-way delay: 58.042 ms

Loss rate: 0.04%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-08-03 11:35:38

End at: 2018-08-03 11:36:08

Local clock offset: -0.027 ms

Remote clock offset: 0.091 ms

# Below is generated by plot.py at 2018-08-03 15:17:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 442.42 Mbit/s

95th percentile per-packet one-way delay: 53.680 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 225.21 Mbit/s

95th percentile per-packet one-way delay: 52.213 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 220.88 Mbit/s

95th percentile per-packet one-way delay: 54.254 ms

Loss rate: 0.00%

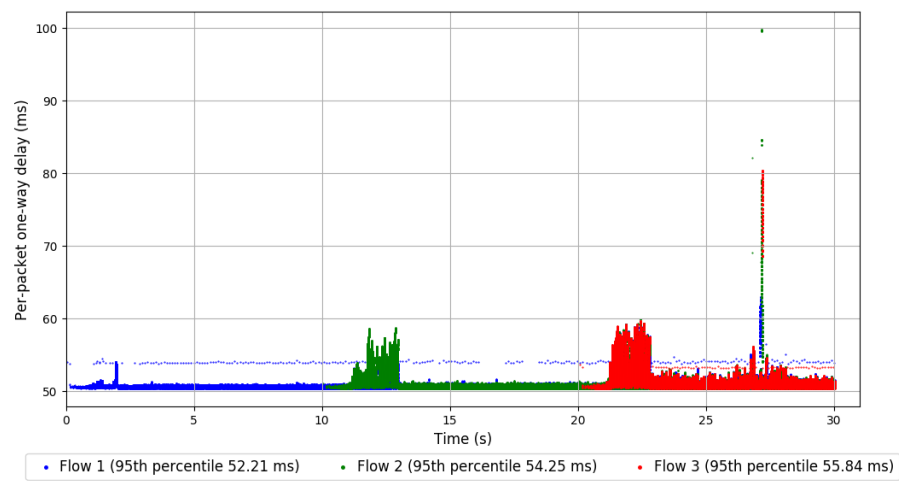
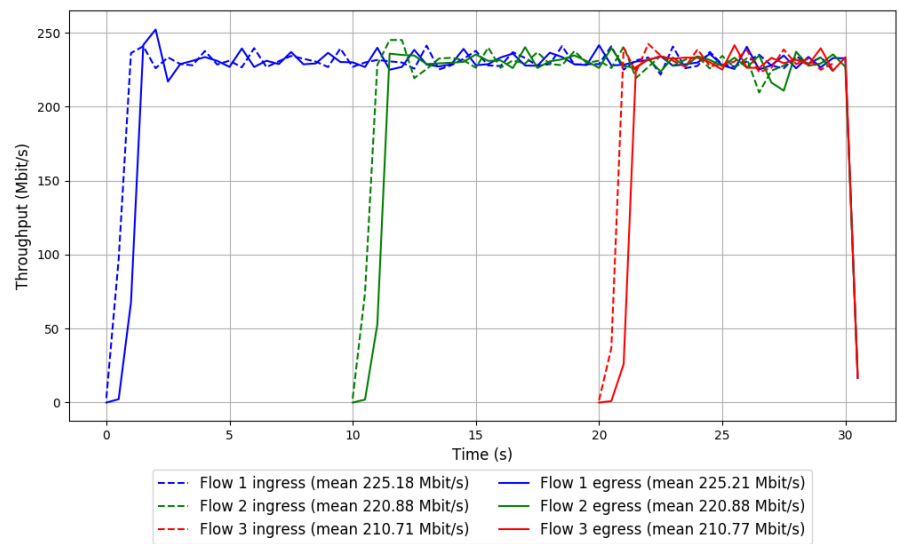
-- Flow 3:

Average throughput: 210.77 Mbit/s

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

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link

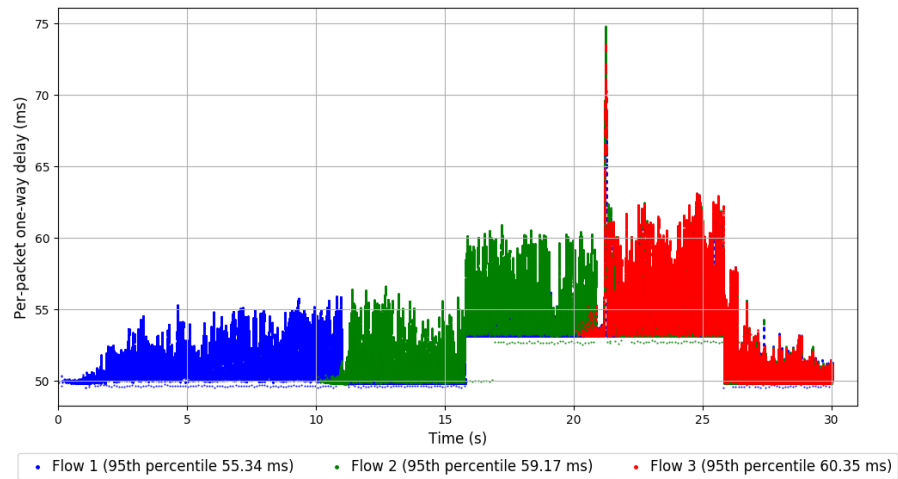
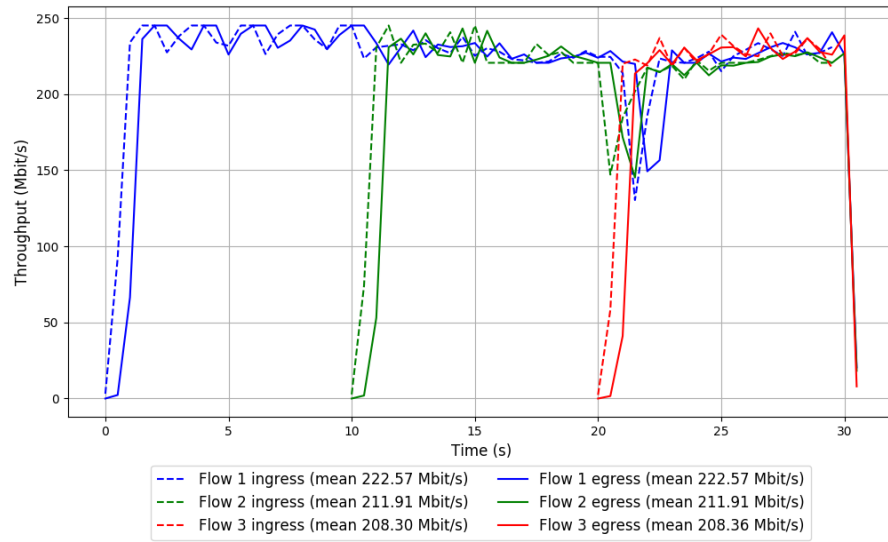


Run 4: Statistics of TCP BBR

Start at: 2018-08-03 12:00:57  
End at: 2018-08-03 12:01:27  
Local clock offset: 0.049 ms  
Remote clock offset: -0.424 ms

# Below is generated by plot.py at 2018-08-03 15:17:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 432.93 Mbit/s  
95th percentile per-packet one-way delay: 58.881 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 222.57 Mbit/s  
95th percentile per-packet one-way delay: 55.340 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 211.91 Mbit/s  
95th percentile per-packet one-way delay: 59.166 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 208.36 Mbit/s  
95th percentile per-packet one-way delay: 60.352 ms  
Loss rate: 0.00%

#### Run 4: Report of TCP BBR — Data Link

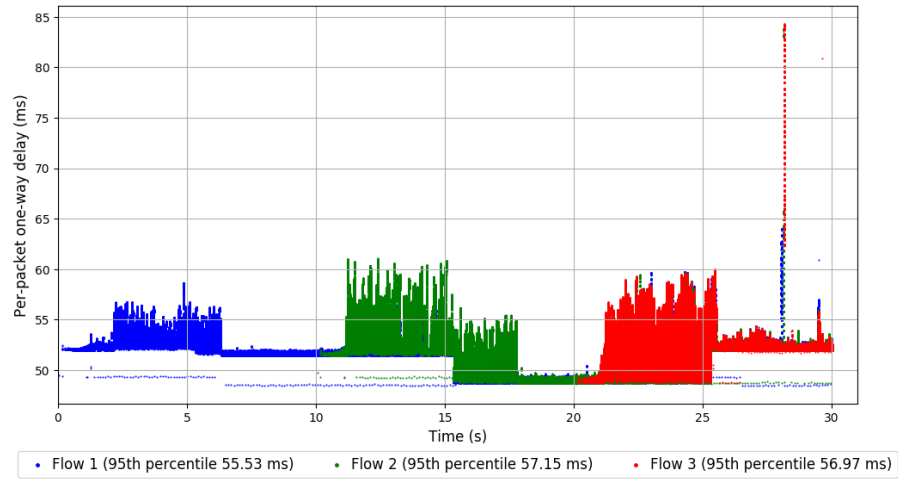
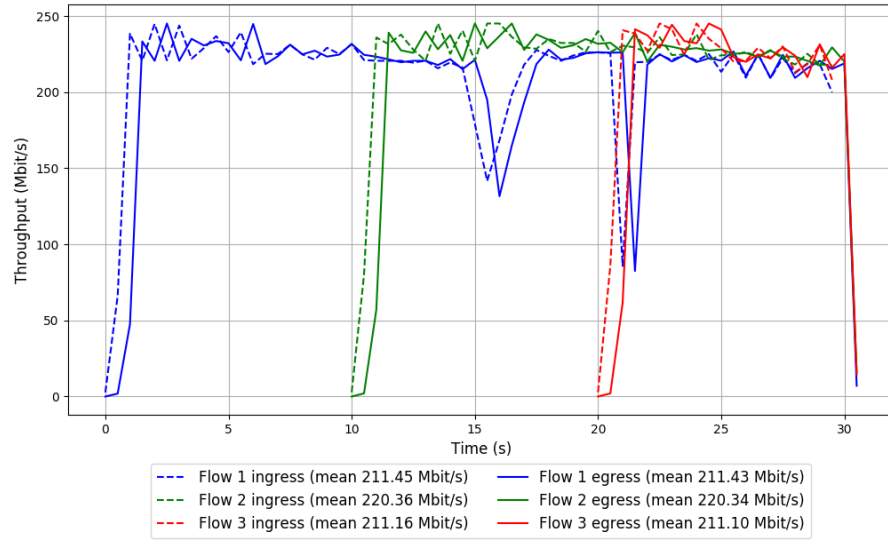


Run 5: Statistics of TCP BBR

Start at: 2018-08-03 12:26:18  
End at: 2018-08-03 12:26:48  
Local clock offset: 0.029 ms  
Remote clock offset: -1.572 ms

# Below is generated by plot.py at 2018-08-03 15:17:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 428.22 Mbit/s  
95th percentile per-packet one-way delay: 56.435 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 211.43 Mbit/s  
95th percentile per-packet one-way delay: 55.533 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 220.34 Mbit/s  
95th percentile per-packet one-way delay: 57.151 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 211.10 Mbit/s  
95th percentile per-packet one-way delay: 56.973 ms  
Loss rate: 0.00%

# Run 5: Report of TCP BBR — Data Link

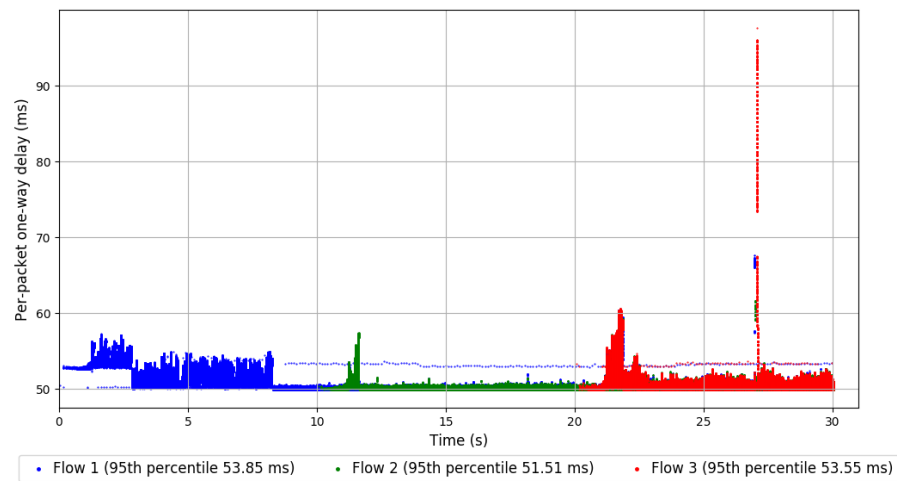
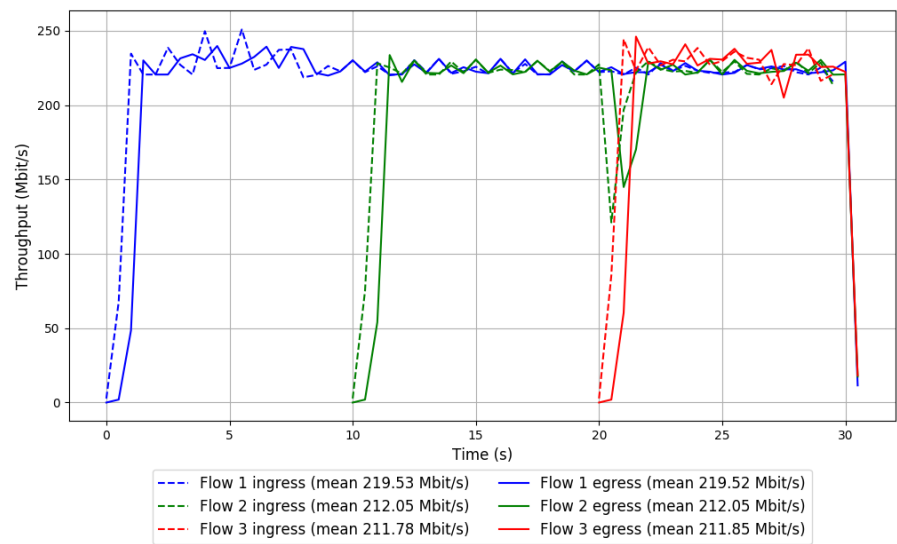


Run 6: Statistics of TCP BBR

Start at: 2018-08-03 12:51:20  
End at: 2018-08-03 12:51:50  
Local clock offset: 0.055 ms  
Remote clock offset: -0.435 ms

# Below is generated by plot.py at 2018-08-03 15:17:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 431.00 Mbit/s  
95th percentile per-packet one-way delay: 53.438 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 219.52 Mbit/s  
95th percentile per-packet one-way delay: 53.848 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 212.05 Mbit/s  
95th percentile per-packet one-way delay: 51.510 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 211.85 Mbit/s  
95th percentile per-packet one-way delay: 53.555 ms  
Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link

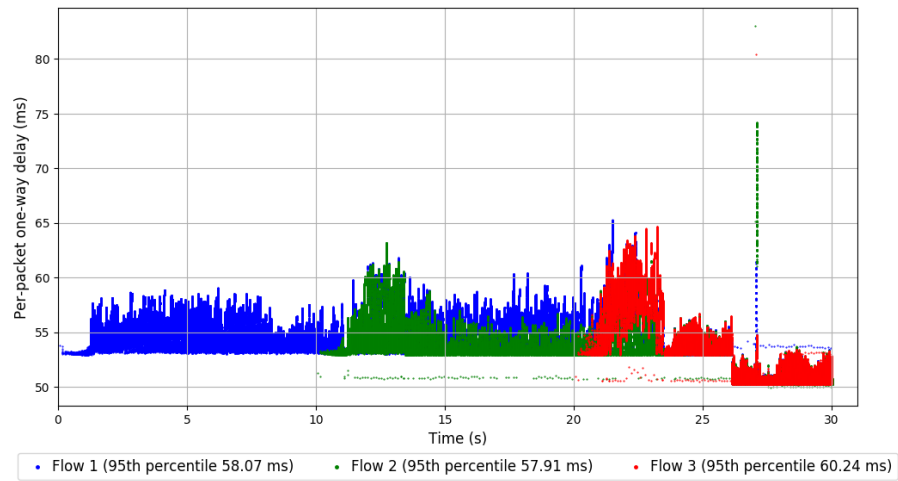
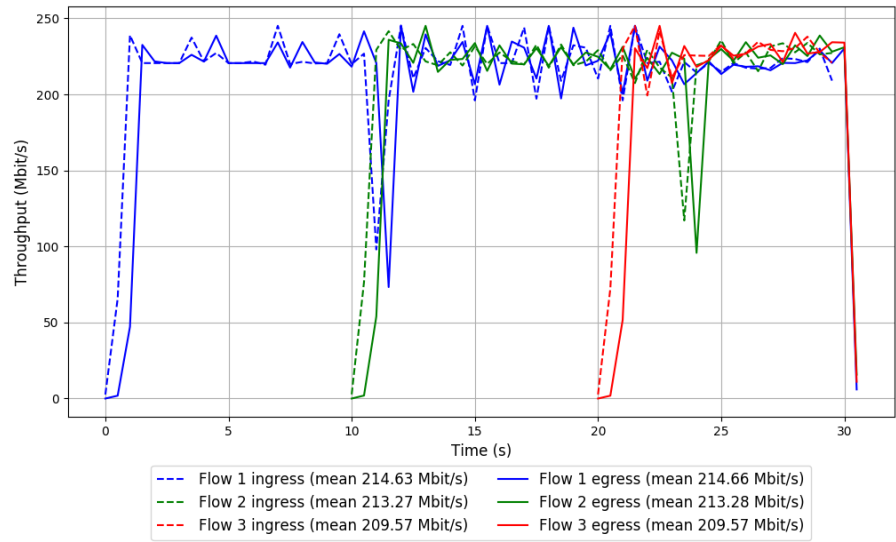


Run 7: Statistics of TCP BBR

Start at: 2018-08-03 13:16:47  
End at: 2018-08-03 13:17:17  
Local clock offset: 0.028 ms  
Remote clock offset: -0.097 ms

# Below is generated by plot.py at 2018-08-03 15:17:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 426.28 Mbit/s  
95th percentile per-packet one-way delay: 58.514 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 214.66 Mbit/s  
95th percentile per-packet one-way delay: 58.067 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 213.28 Mbit/s  
95th percentile per-packet one-way delay: 57.912 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 209.57 Mbit/s  
95th percentile per-packet one-way delay: 60.243 ms  
Loss rate: 0.00%

# Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-08-03 13:42:05

End at: 2018-08-03 13:42:35

Local clock offset: -0.056 ms

Remote clock offset: 1.138 ms

# Below is generated by plot.py at 2018-08-03 15:17:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 422.95 Mbit/s

95th percentile per-packet one-way delay: 60.263 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 213.12 Mbit/s

95th percentile per-packet one-way delay: 59.077 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 212.74 Mbit/s

95th percentile per-packet one-way delay: 60.911 ms

Loss rate: 0.00%

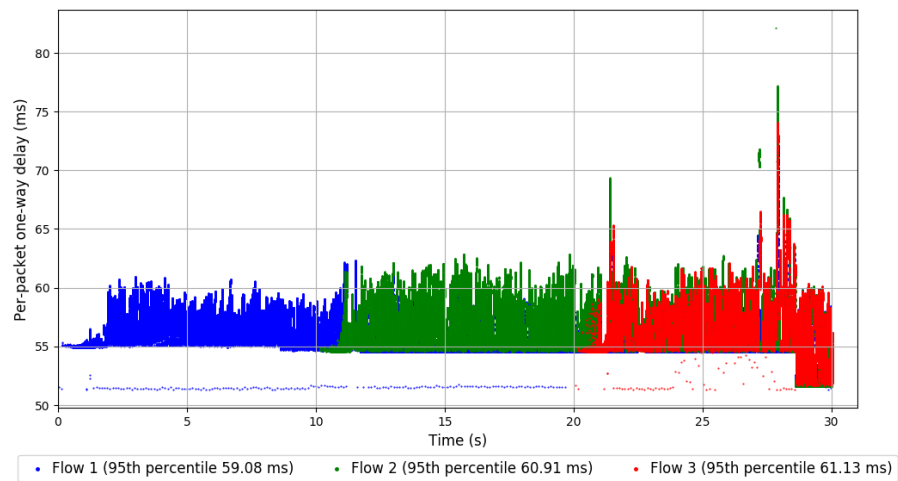
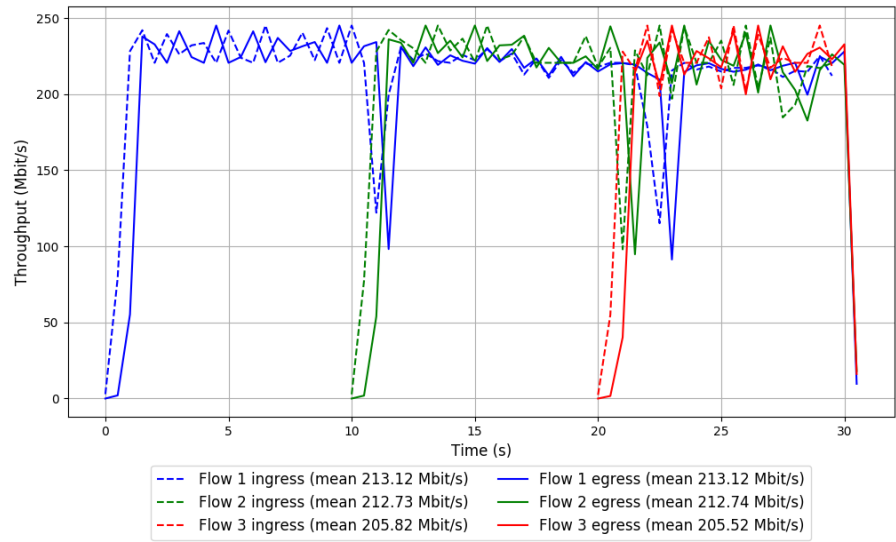
-- Flow 3:

Average throughput: 205.52 Mbit/s

95th percentile per-packet one-way delay: 61.128 ms

Loss rate: 0.14%

# Run 8: Report of TCP BBR — Data Link

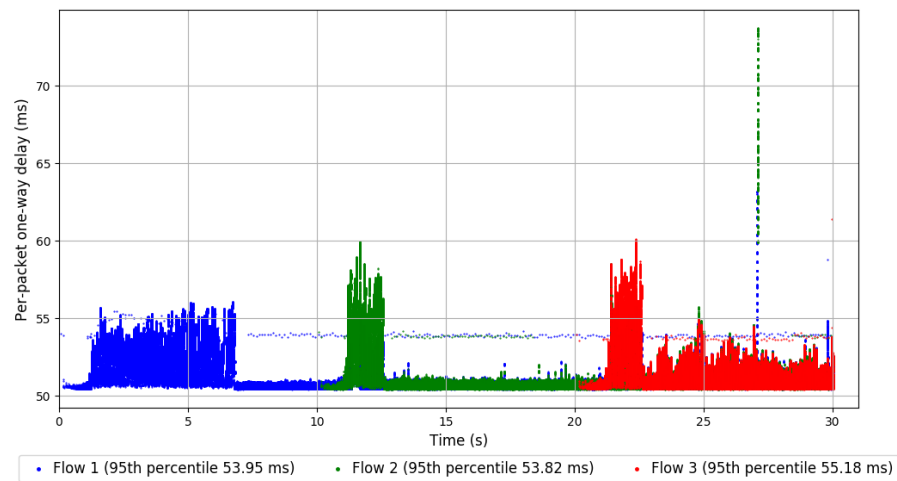
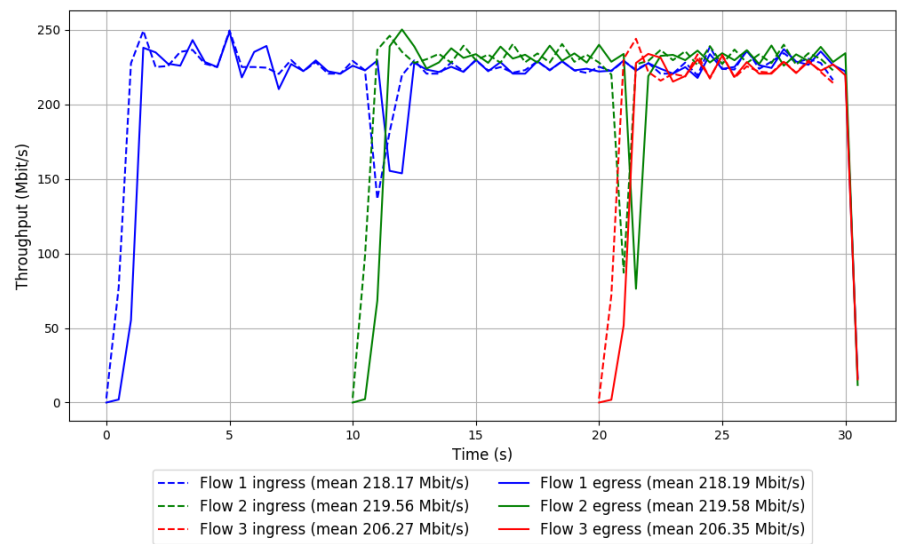


Run 9: Statistics of TCP BBR

Start at: 2018-08-03 14:06:55  
End at: 2018-08-03 14:07:25  
Local clock offset: -0.165 ms  
Remote clock offset: -0.188 ms

# Below is generated by plot.py at 2018-08-03 15:23:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 433.01 Mbit/s  
95th percentile per-packet one-way delay: 54.062 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 218.19 Mbit/s  
95th percentile per-packet one-way delay: 53.951 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 219.58 Mbit/s  
95th percentile per-packet one-way delay: 53.817 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 206.35 Mbit/s  
95th percentile per-packet one-way delay: 55.177 ms  
Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-08-03 14:32:23

End at: 2018-08-03 14:32:53

Local clock offset: 0.051 ms

Remote clock offset: 1.098 ms

# Below is generated by plot.py at 2018-08-03 15:23:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 429.01 Mbit/s

95th percentile per-packet one-way delay: 56.612 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 217.56 Mbit/s

95th percentile per-packet one-way delay: 56.625 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 213.77 Mbit/s

95th percentile per-packet one-way delay: 55.289 ms

Loss rate: 0.02%

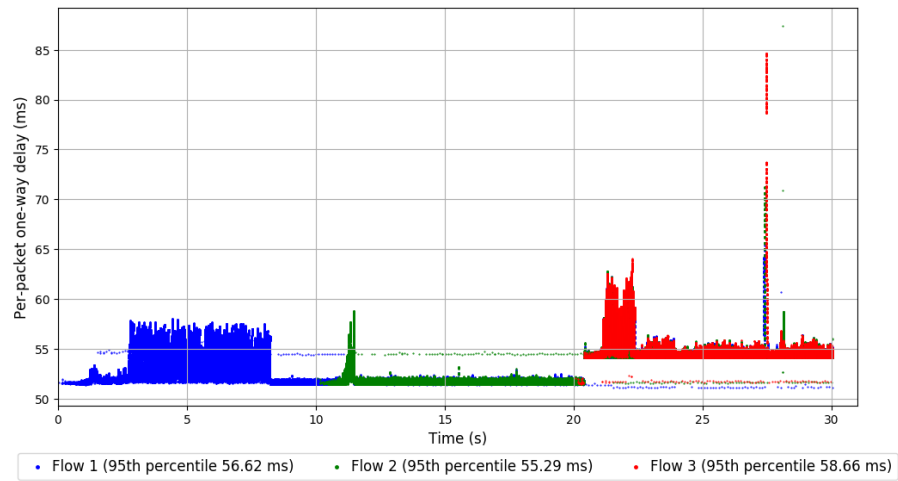
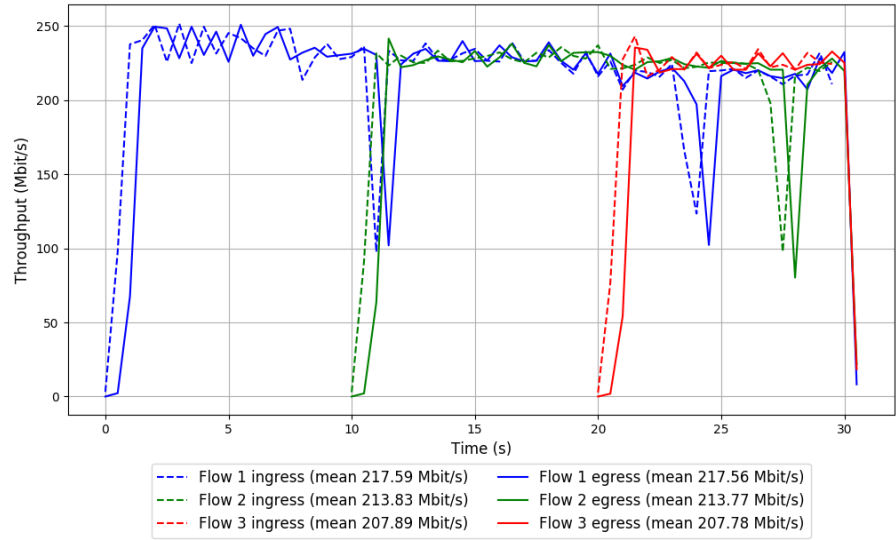
-- Flow 3:

Average throughput: 207.78 Mbit/s

95th percentile per-packet one-way delay: 58.662 ms

Loss rate: 0.05%

# Run 10: Report of TCP BBR — Data Link

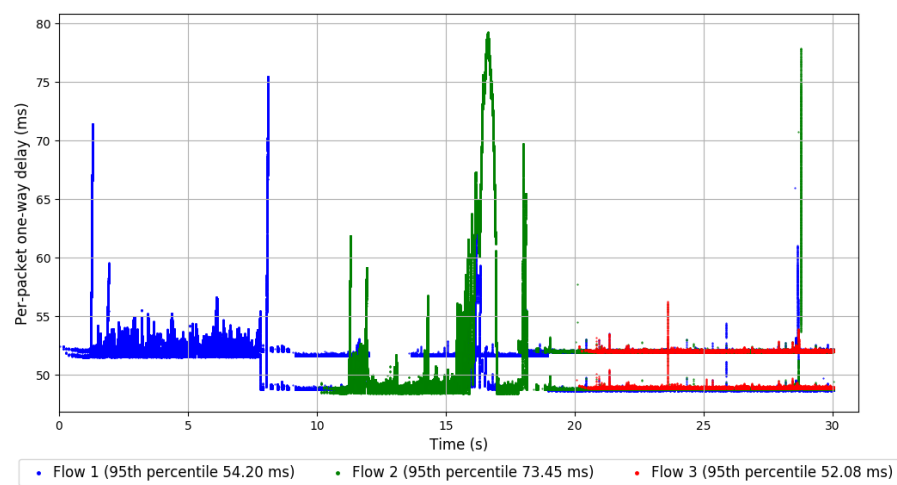
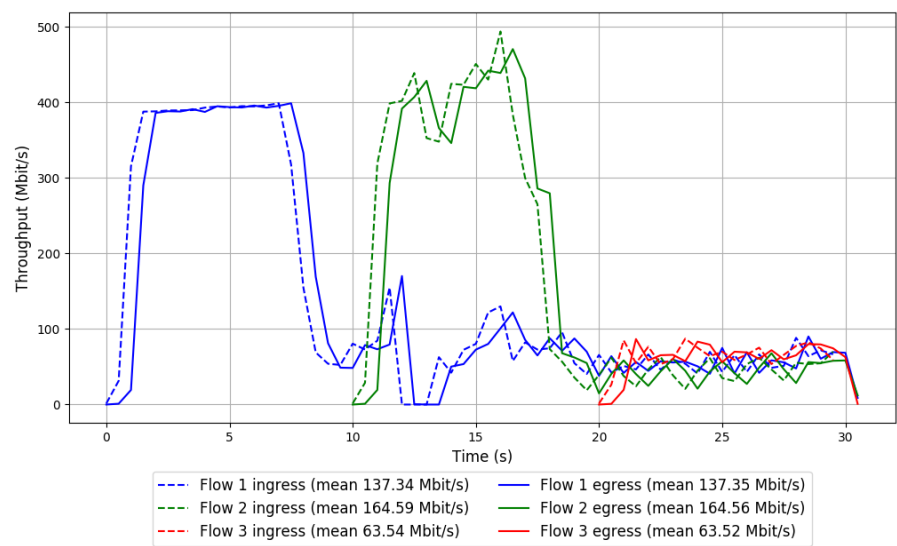


Run 1: Statistics of Copa

Start at: 2018-08-03 10:59:55  
End at: 2018-08-03 11:00:25  
Local clock offset: 0.149 ms  
Remote clock offset: -1.395 ms

# Below is generated by plot.py at 2018-08-03 15:24:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 268.11 Mbit/s  
95th percentile per-packet one-way delay: 61.968 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 137.35 Mbit/s  
95th percentile per-packet one-way delay: 54.204 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 164.56 Mbit/s  
95th percentile per-packet one-way delay: 73.447 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 63.52 Mbit/s  
95th percentile per-packet one-way delay: 52.077 ms  
Loss rate: 0.00%

Run 1: Report of Copa — Data Link

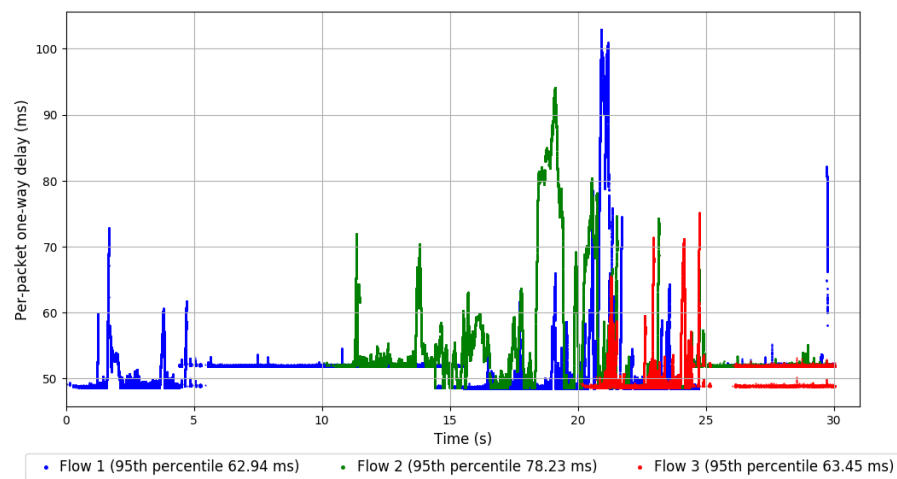
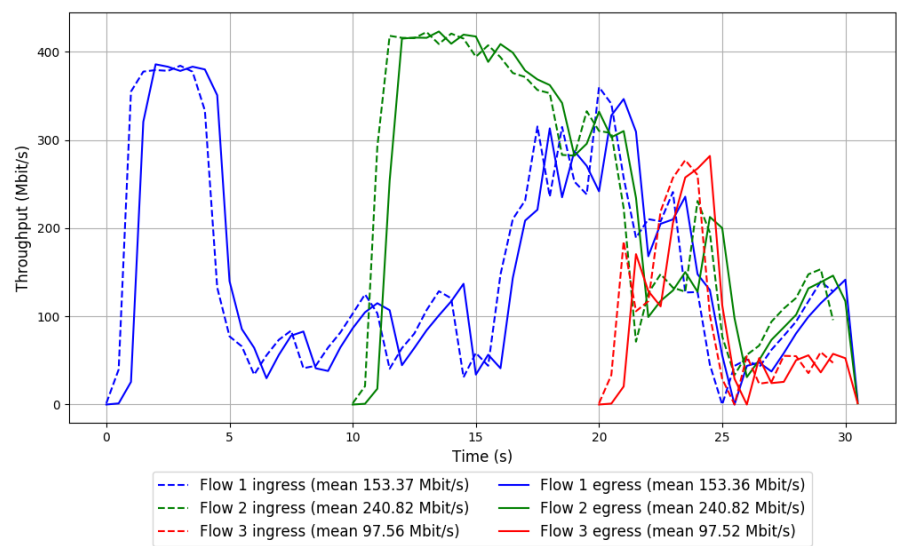


Run 2: Statistics of Copa

Start at: 2018-08-03 11:25:19  
End at: 2018-08-03 11:25:49  
Local clock offset: 0.241 ms  
Remote clock offset: -1.483 ms

# Below is generated by plot.py at 2018-08-03 15:26:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 346.03 Mbit/s  
95th percentile per-packet one-way delay: 71.604 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 153.36 Mbit/s  
95th percentile per-packet one-way delay: 62.944 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 240.82 Mbit/s  
95th percentile per-packet one-way delay: 78.234 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 97.52 Mbit/s  
95th percentile per-packet one-way delay: 63.453 ms  
Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-08-03 11:50:46

End at: 2018-08-03 11:51:16

Local clock offset: -0.078 ms

Remote clock offset: -1.49 ms

# Below is generated by plot.py at 2018-08-03 15:26:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 238.21 Mbit/s

95th percentile per-packet one-way delay: 62.751 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 125.36 Mbit/s

95th percentile per-packet one-way delay: 64.321 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 145.42 Mbit/s

95th percentile per-packet one-way delay: 58.481 ms

Loss rate: 0.00%

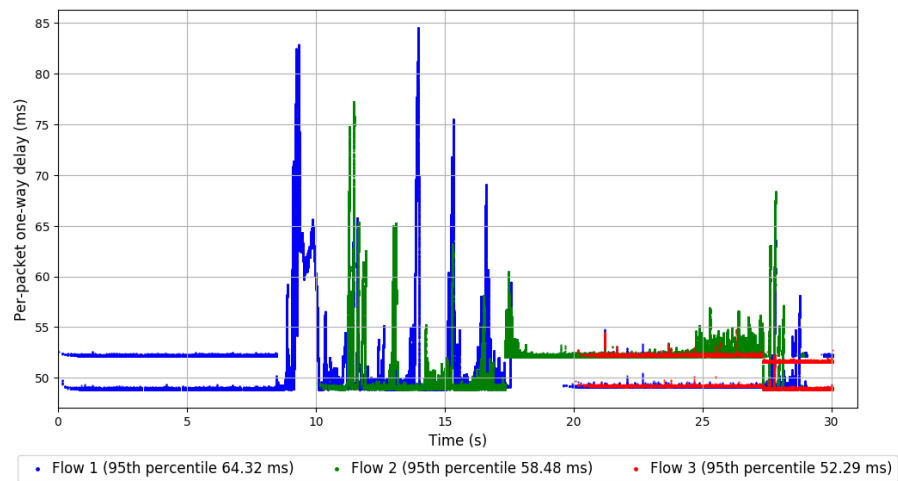
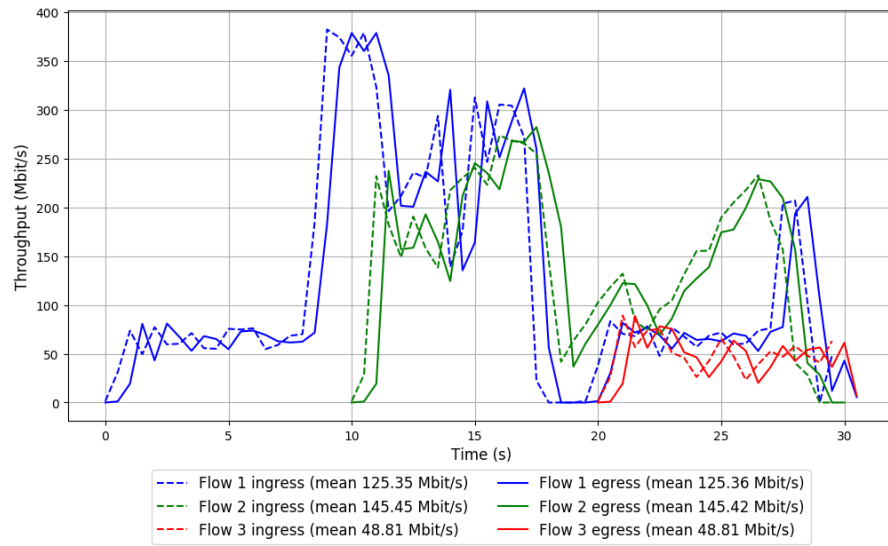
-- Flow 3:

Average throughput: 48.81 Mbit/s

95th percentile per-packet one-way delay: 52.288 ms

Loss rate: 0.00%

### Run 3: Report of Copa — Data Link

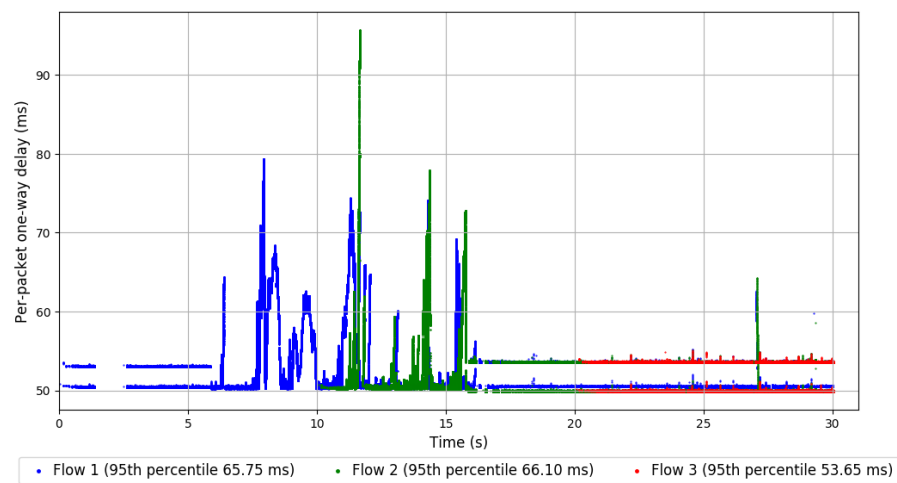
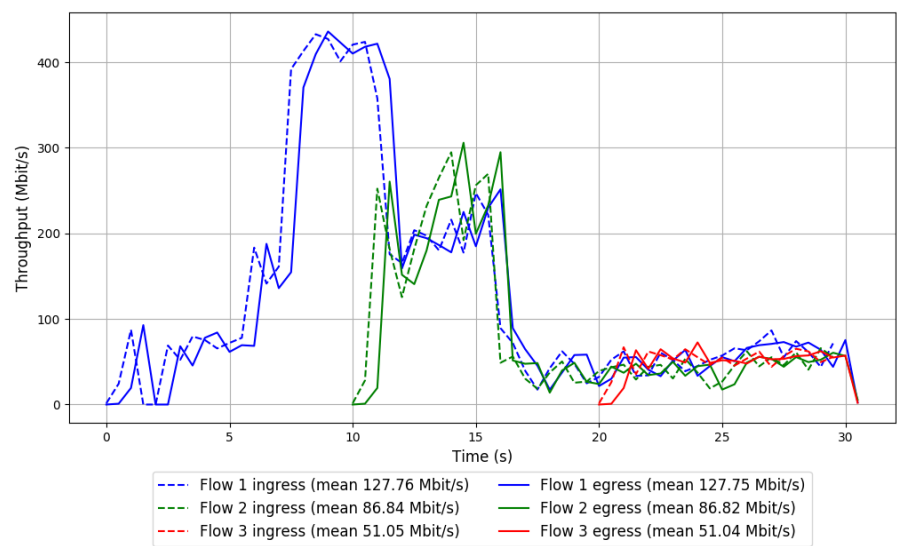


Run 4: Statistics of Copa

Start at: 2018-08-03 12:16:07  
End at: 2018-08-03 12:16:37  
Local clock offset: -0.075 ms  
Remote clock offset: -0.171 ms

# Below is generated by plot.py at 2018-08-03 15:26:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 202.39 Mbit/s  
95th percentile per-packet one-way delay: 65.376 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 127.75 Mbit/s  
95th percentile per-packet one-way delay: 65.753 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 86.82 Mbit/s  
95th percentile per-packet one-way delay: 66.103 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 51.04 Mbit/s  
95th percentile per-packet one-way delay: 53.646 ms  
Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-08-03 12:41:08

End at: 2018-08-03 12:41:38

Local clock offset: -0.037 ms

Remote clock offset: 0.04 ms

# Below is generated by plot.py at 2018-08-03 15:26:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 248.64 Mbit/s

95th percentile per-packet one-way delay: 76.273 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 100.50 Mbit/s

95th percentile per-packet one-way delay: 69.398 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 150.61 Mbit/s

95th percentile per-packet one-way delay: 60.042 ms

Loss rate: 0.00%

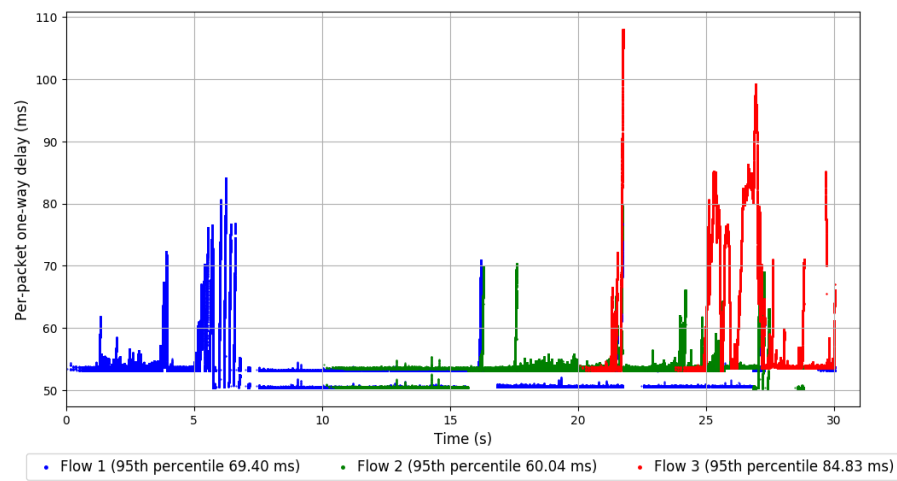
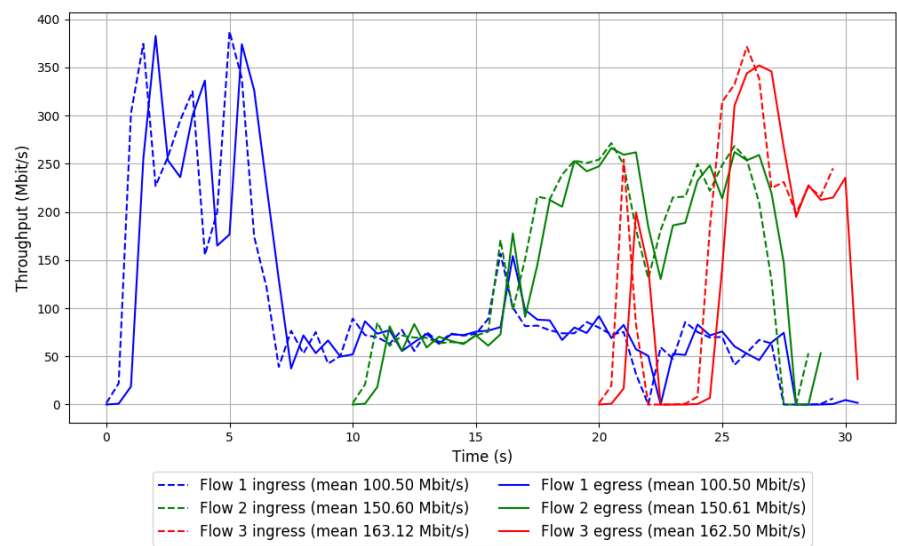
-- Flow 3:

Average throughput: 162.50 Mbit/s

95th percentile per-packet one-way delay: 84.829 ms

Loss rate: 0.37%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-08-03 13:06:19

End at: 2018-08-03 13:06:49

Local clock offset: -0.059 ms

Remote clock offset: 1.018 ms

# Below is generated by plot.py at 2018-08-03 15:28:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 379.95 Mbit/s

95th percentile per-packet one-way delay: 76.385 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 226.70 Mbit/s

95th percentile per-packet one-way delay: 59.957 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 164.04 Mbit/s

95th percentile per-packet one-way delay: 84.346 ms

Loss rate: 0.00%

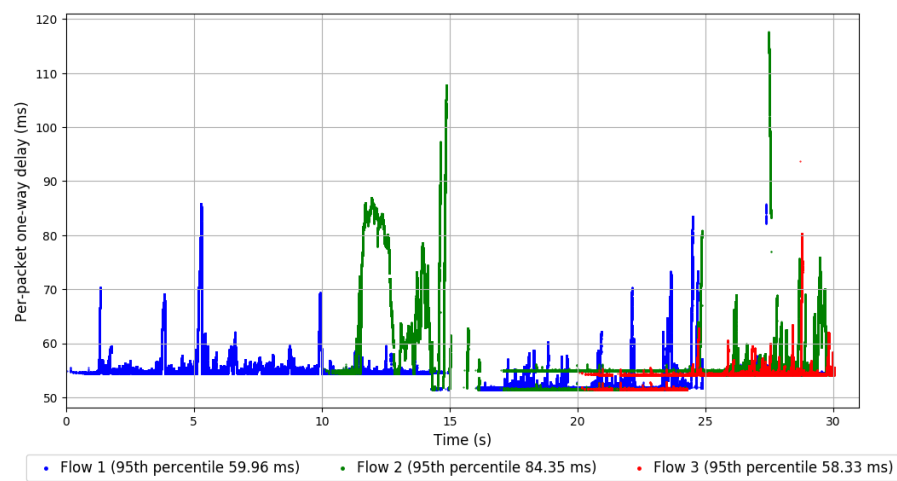
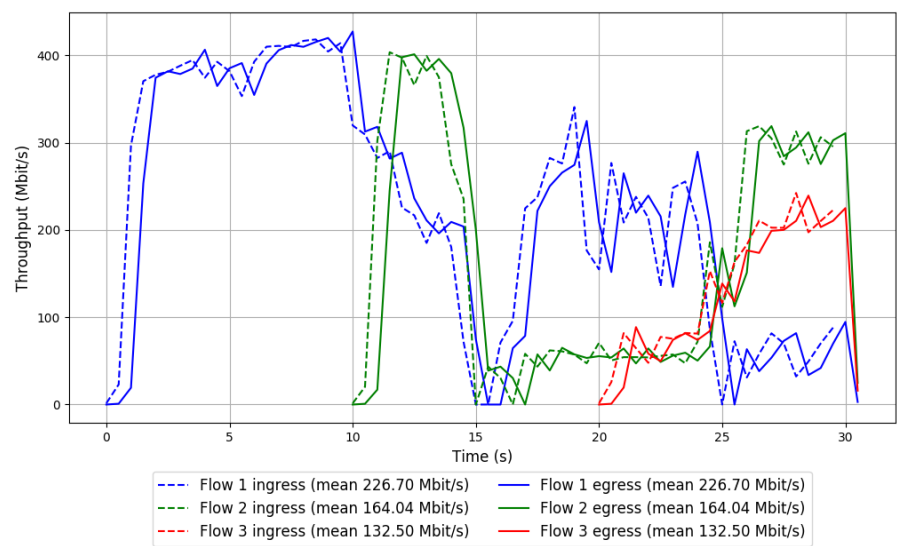
-- Flow 3:

Average throughput: 132.50 Mbit/s

95th percentile per-packet one-way delay: 58.332 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link

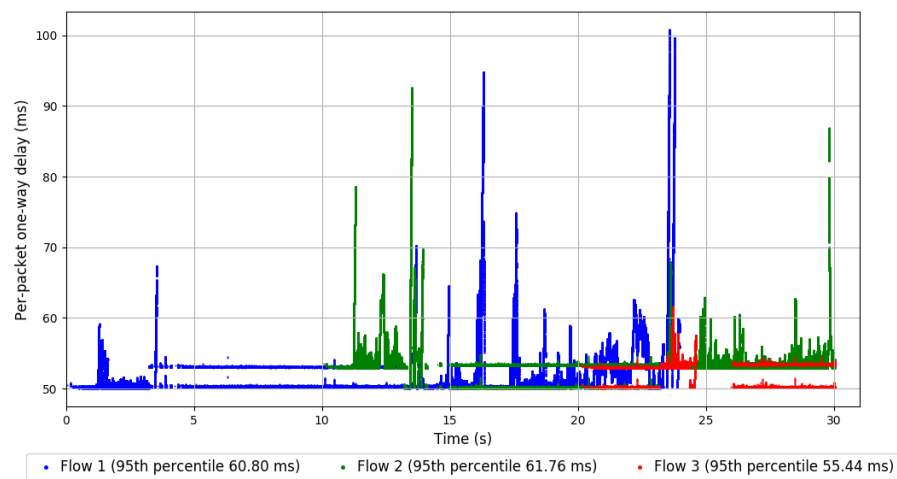
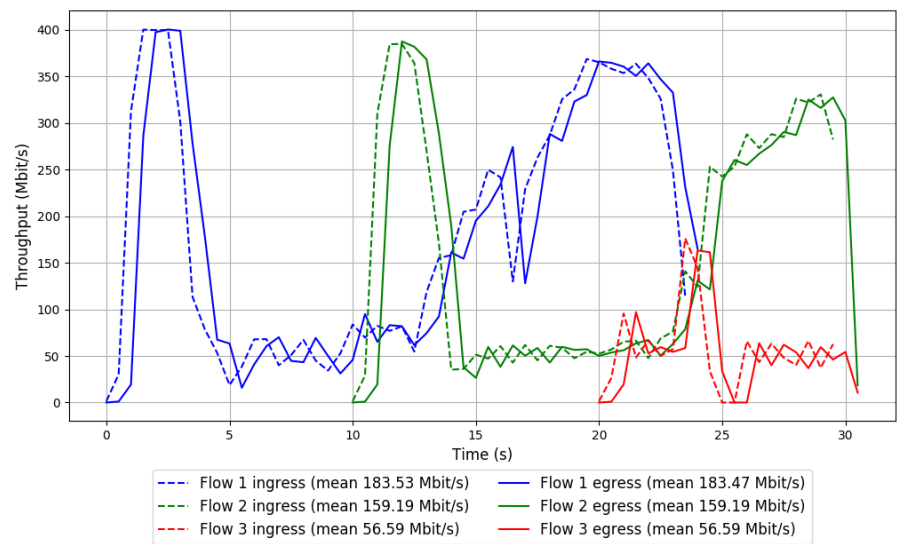


Run 7: Statistics of Copa

Start at: 2018-08-03 13:31:40  
End at: 2018-08-03 13:32:10  
Local clock offset: 0.044 ms  
Remote clock offset: -0.302 ms

# Below is generated by plot.py at 2018-08-03 15:30:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 271.16 Mbit/s  
95th percentile per-packet one-way delay: 60.785 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 183.47 Mbit/s  
95th percentile per-packet one-way delay: 60.802 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 159.19 Mbit/s  
95th percentile per-packet one-way delay: 61.758 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 56.59 Mbit/s  
95th percentile per-packet one-way delay: 55.440 ms  
Loss rate: 0.00%

Run 7: Report of Copa — Data Link

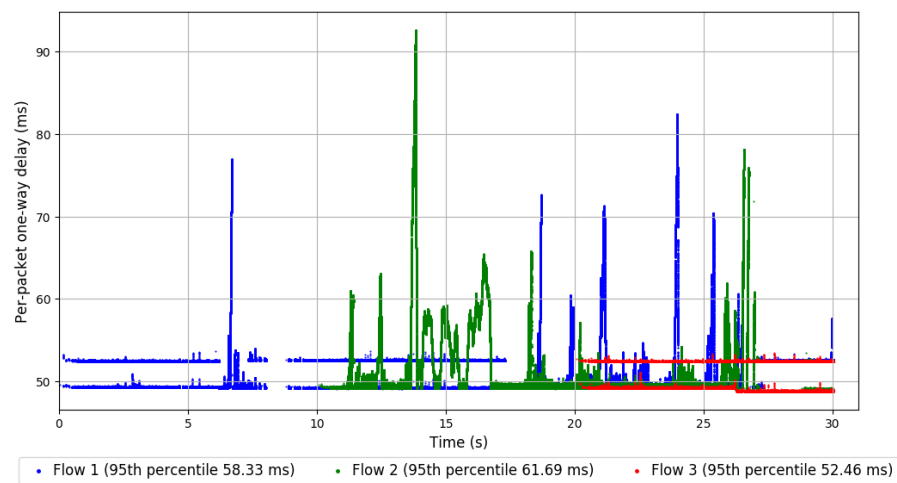
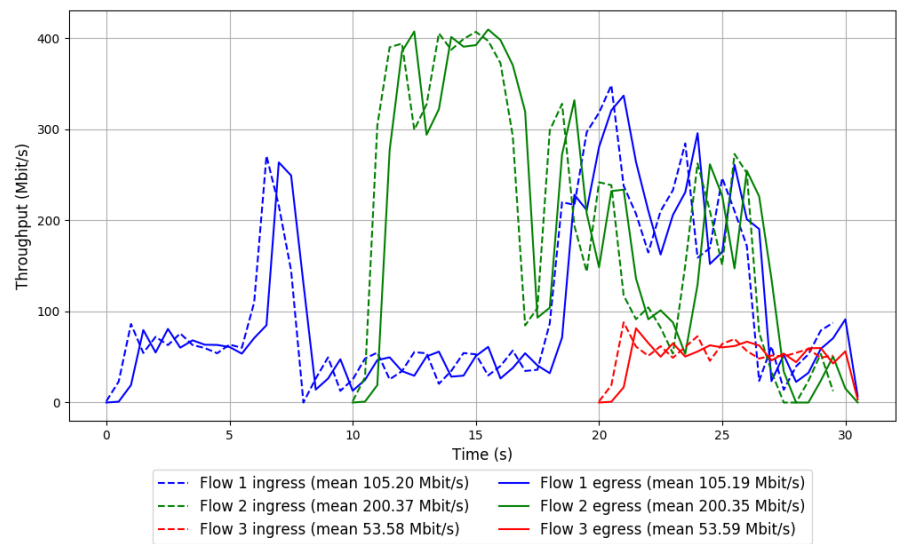


Run 8: Statistics of Copa

Start at: 2018-08-03 13:56:47  
End at: 2018-08-03 13:57:17  
Local clock offset: -0.177 ms  
Remote clock offset: -1.479 ms

# Below is generated by plot.py at 2018-08-03 15:30:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 256.24 Mbit/s  
95th percentile per-packet one-way delay: 60.351 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 105.19 Mbit/s  
95th percentile per-packet one-way delay: 58.334 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 200.35 Mbit/s  
95th percentile per-packet one-way delay: 61.692 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 53.59 Mbit/s  
95th percentile per-packet one-way delay: 52.457 ms  
Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-08-03 14:22:15

End at: 2018-08-03 14:22:45

Local clock offset: -0.067 ms

Remote clock offset: 0.047 ms

# Below is generated by plot.py at 2018-08-03 15:30:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 227.56 Mbit/s

95th percentile per-packet one-way delay: 62.131 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 164.60 Mbit/s

95th percentile per-packet one-way delay: 55.937 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 148.76 Mbit/s

95th percentile per-packet one-way delay: 65.993 ms

Loss rate: 0.00%

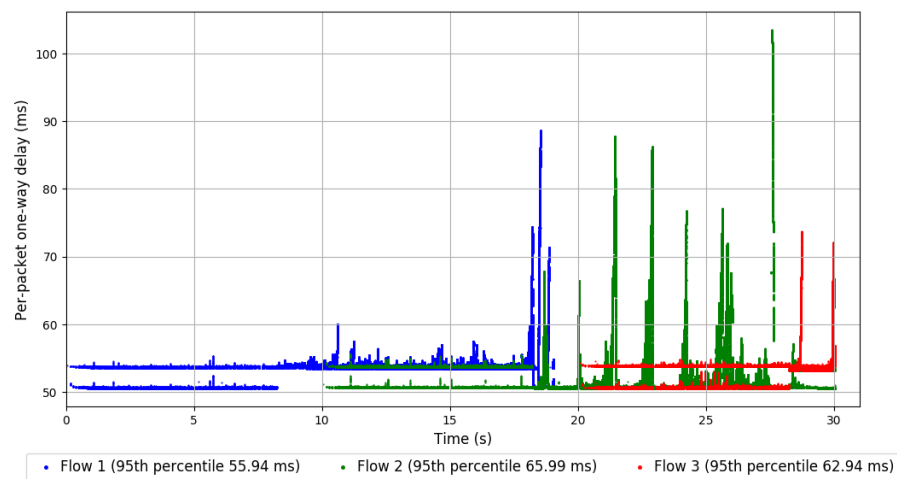
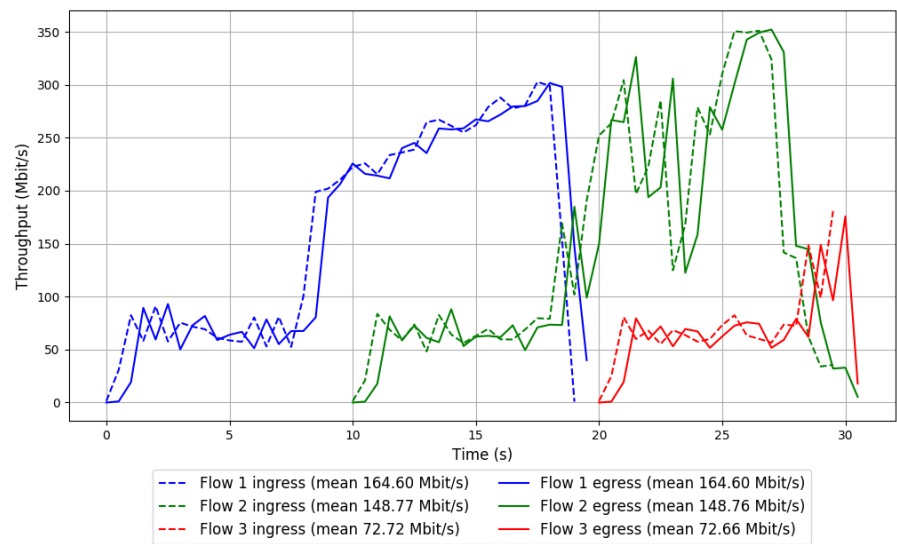
-- Flow 3:

Average throughput: 72.66 Mbit/s

95th percentile per-packet one-way delay: 62.940 ms

Loss rate: 0.11%

Run 9: Report of Copa — Data Link

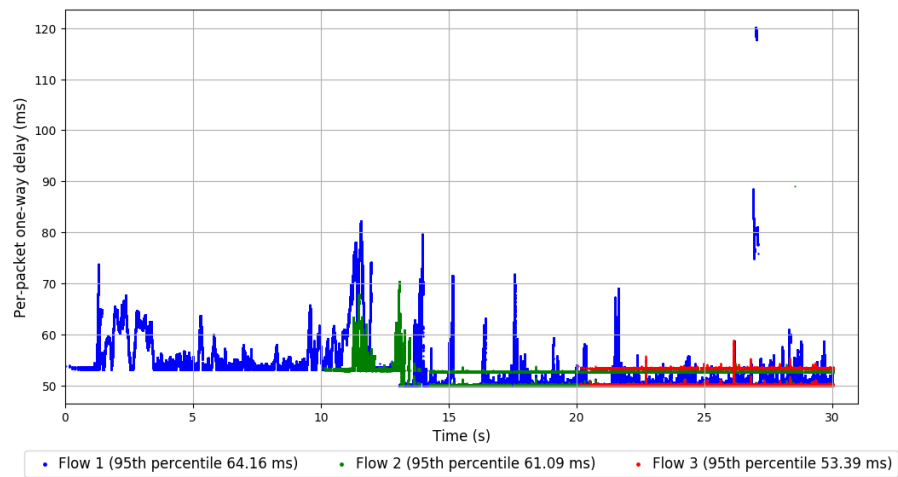
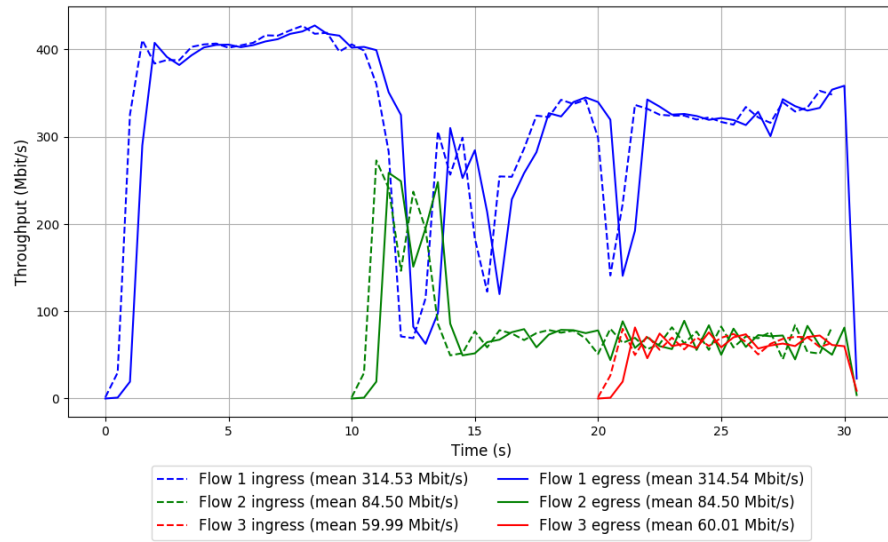


Run 10: Statistics of Copa

Start at: 2018-08-03 14:47:20  
End at: 2018-08-03 14:47:50  
Local clock offset: 0.072 ms  
Remote clock offset: -0.358 ms

# Below is generated by plot.py at 2018-08-03 15:35:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 390.76 Mbit/s  
95th percentile per-packet one-way delay: 63.609 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 314.54 Mbit/s  
95th percentile per-packet one-way delay: 64.164 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 84.50 Mbit/s  
95th percentile per-packet one-way delay: 61.091 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 60.01 Mbit/s  
95th percentile per-packet one-way delay: 53.389 ms  
Loss rate: 0.01%

# Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-08-03 10:37:34

End at: 2018-08-03 10:38:04

Local clock offset: 0.145 ms

Remote clock offset: 1.083 ms

# Below is generated by plot.py at 2018-08-03 15:35:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 314.61 Mbit/s

95th percentile per-packet one-way delay: 54.937 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 184.77 Mbit/s

95th percentile per-packet one-way delay: 55.052 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 143.35 Mbit/s

95th percentile per-packet one-way delay: 53.331 ms

Loss rate: 0.00%

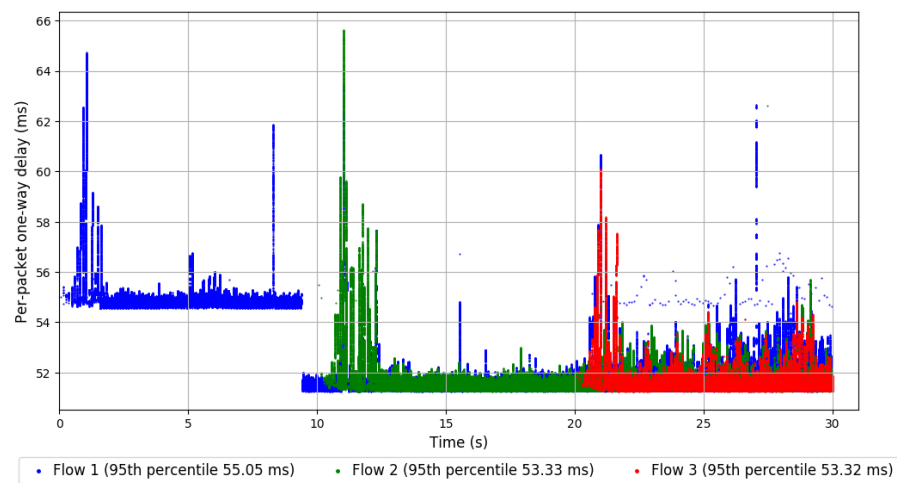
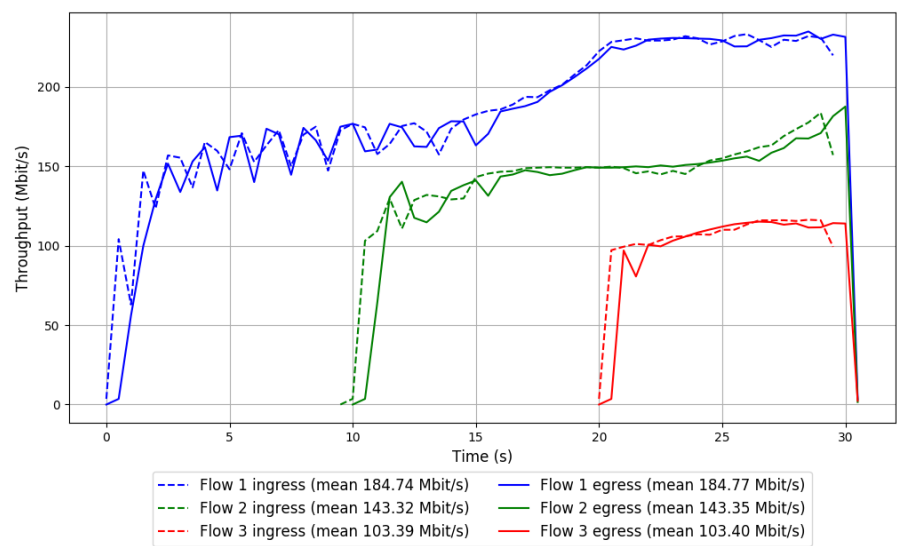
-- Flow 3:

Average throughput: 103.40 Mbit/s

95th percentile per-packet one-way delay: 53.316 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link

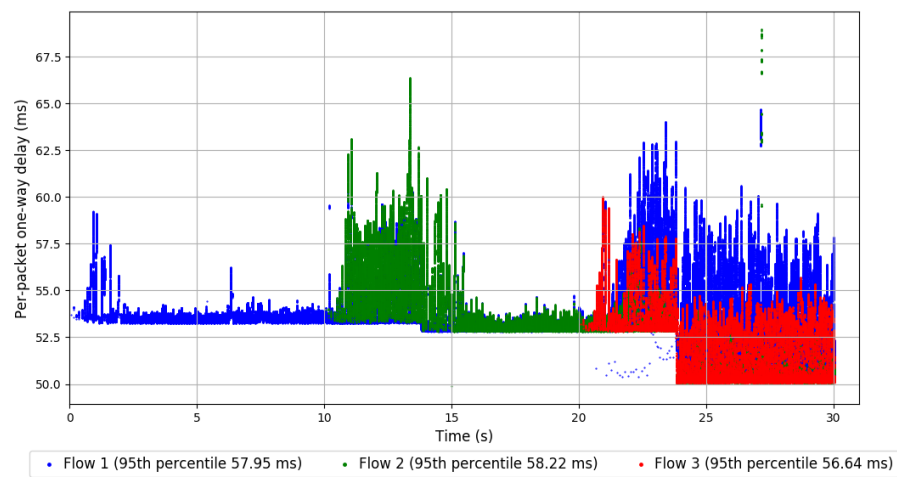
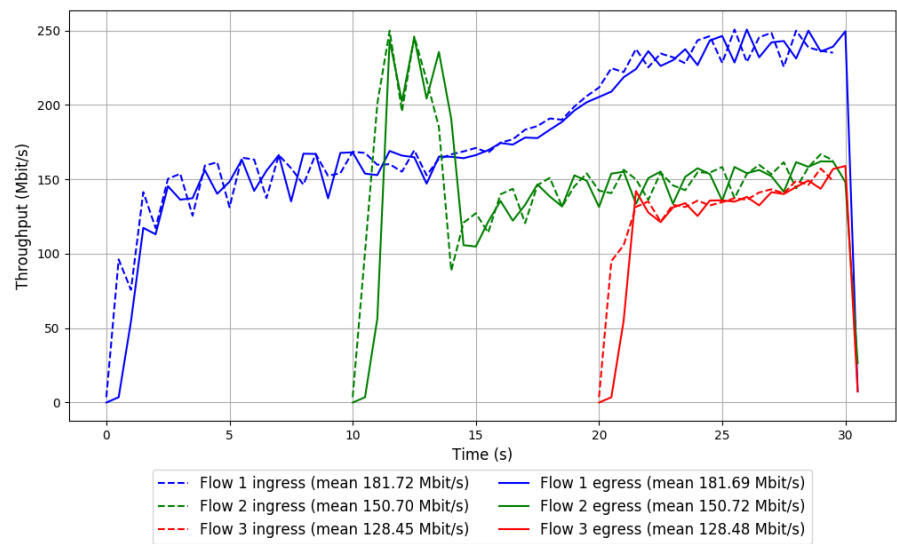


Run 2: Statistics of TCP Cubic

Start at: 2018-08-03 11:02:59  
End at: 2018-08-03 11:03:29  
Local clock offset: 0.065 ms  
Remote clock offset: -0.188 ms

# Below is generated by plot.py at 2018-08-03 15:35:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 324.72 Mbit/s  
95th percentile per-packet one-way delay: 57.864 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 181.69 Mbit/s  
95th percentile per-packet one-way delay: 57.951 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 150.72 Mbit/s  
95th percentile per-packet one-way delay: 58.219 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 128.48 Mbit/s  
95th percentile per-packet one-way delay: 56.638 ms  
Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link

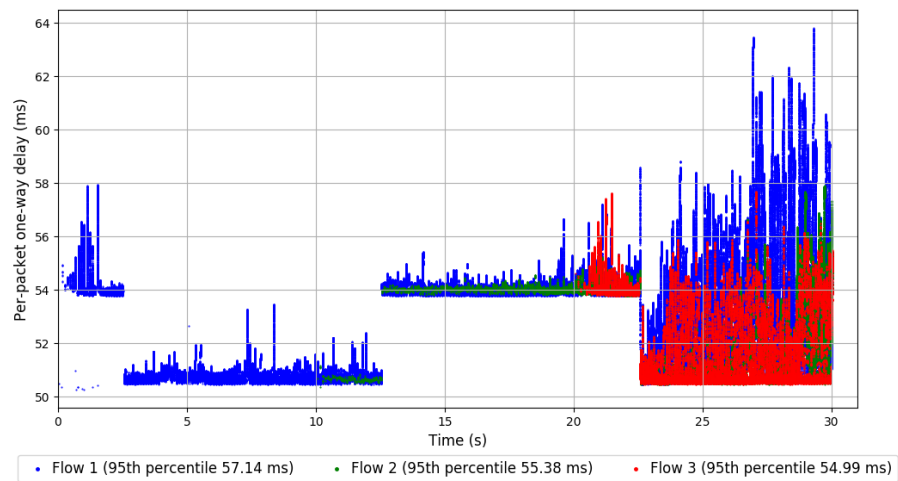
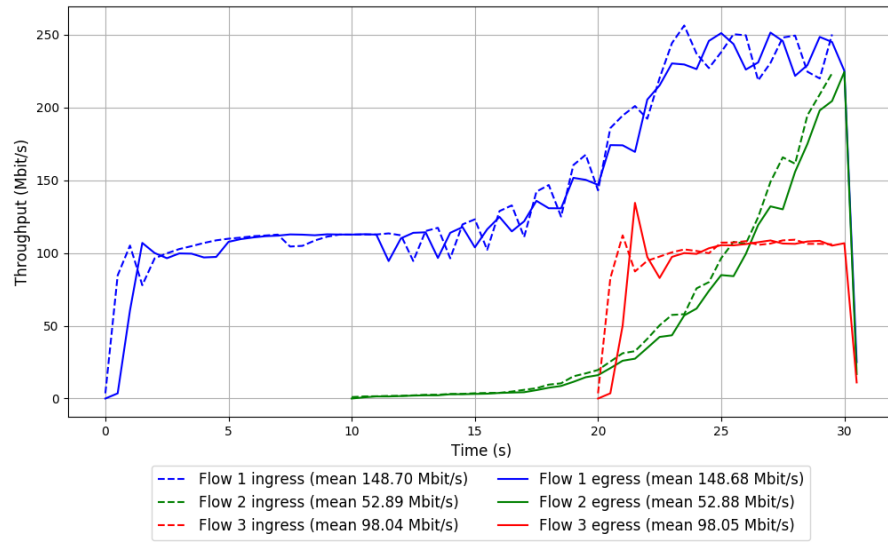


Run 3: Statistics of TCP Cubic

Start at: 2018-08-03 11:28:31  
End at: 2018-08-03 11:29:01  
Local clock offset: -0.161 ms  
Remote clock offset: -0.004 ms

# Below is generated by plot.py at 2018-08-03 15:35:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 216.41 Mbit/s  
95th percentile per-packet one-way delay: 56.401 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 148.68 Mbit/s  
95th percentile per-packet one-way delay: 57.139 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 52.88 Mbit/s  
95th percentile per-packet one-way delay: 55.383 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 98.05 Mbit/s  
95th percentile per-packet one-way delay: 54.992 ms  
Loss rate: 0.00%

### Run 3: Report of TCP Cubic — Data Link

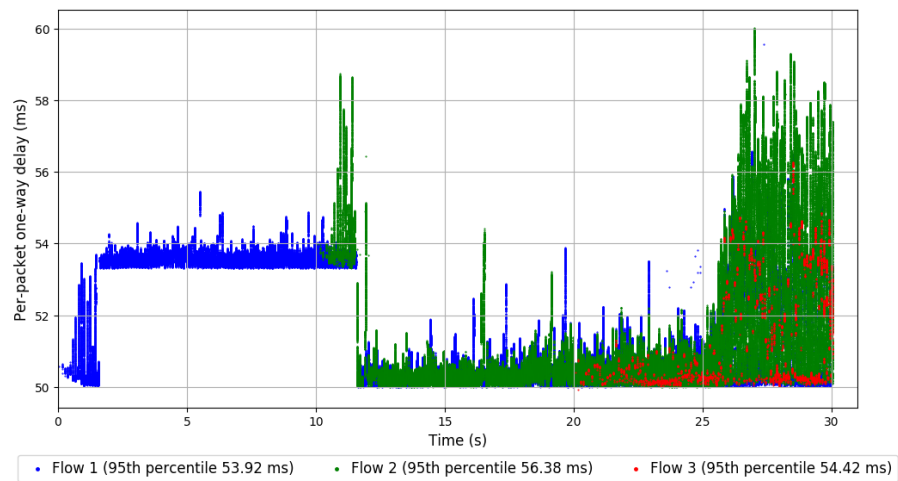
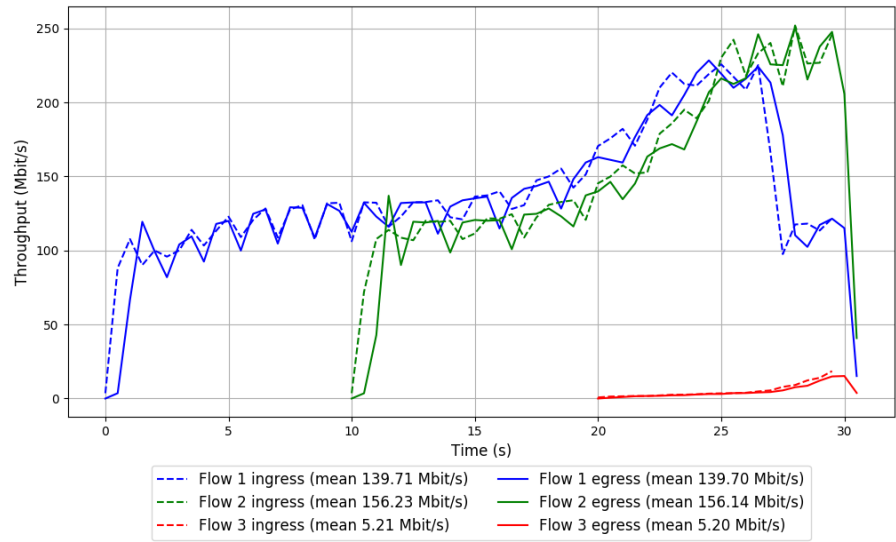


Run 4: Statistics of TCP Cubic

Start at: 2018-08-03 11:53:52  
End at: 2018-08-03 11:54:22  
Local clock offset: 0.211 ms  
Remote clock offset: -0.059 ms

# Below is generated by plot.py at 2018-08-03 15:35:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 245.42 Mbit/s  
95th percentile per-packet one-way delay: 54.996 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 139.70 Mbit/s  
95th percentile per-packet one-way delay: 53.919 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 156.14 Mbit/s  
95th percentile per-packet one-way delay: 56.381 ms  
Loss rate: 0.06%  
-- Flow 3:  
Average throughput: 5.20 Mbit/s  
95th percentile per-packet one-way delay: 54.421 ms  
Loss rate: 0.16%

# Run 4: Report of TCP Cubic — Data Link

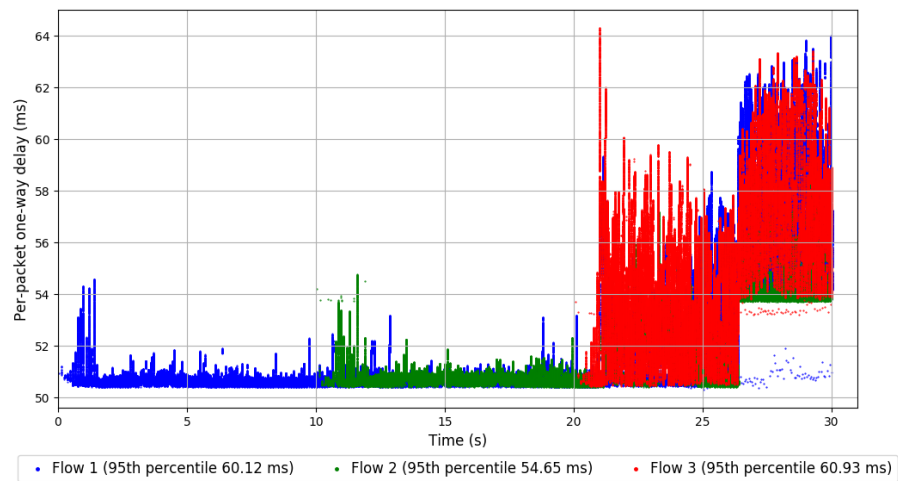
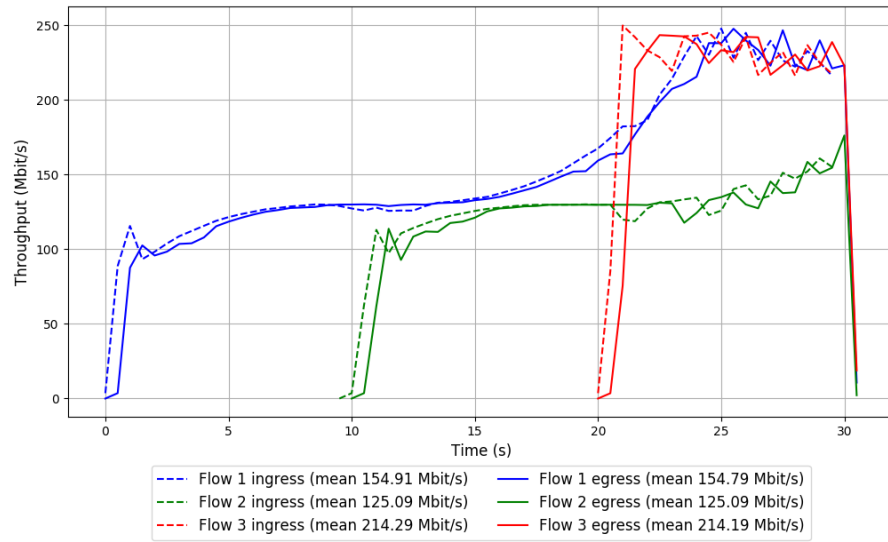


Run 5: Statistics of TCP Cubic

Start at: 2018-08-03 12:19:07  
End at: 2018-08-03 12:19:37  
Local clock offset: -0.129 ms  
Remote clock offset: -0.048 ms

# Below is generated by plot.py at 2018-08-03 15:35:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 309.22 Mbit/s  
95th percentile per-packet one-way delay: 59.938 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 154.79 Mbit/s  
95th percentile per-packet one-way delay: 60.124 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 125.09 Mbit/s  
95th percentile per-packet one-way delay: 54.646 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 214.19 Mbit/s  
95th percentile per-packet one-way delay: 60.929 ms  
Loss rate: 0.00%

# Run 5: Report of TCP Cubic — Data Link

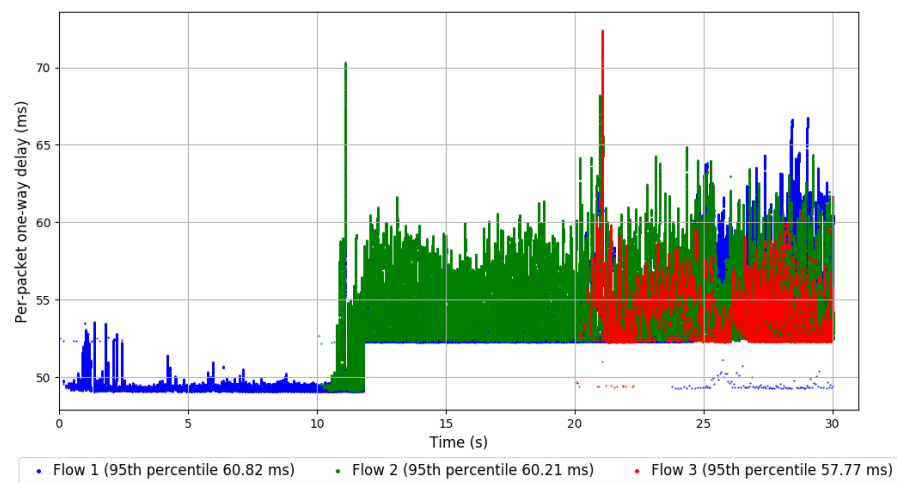
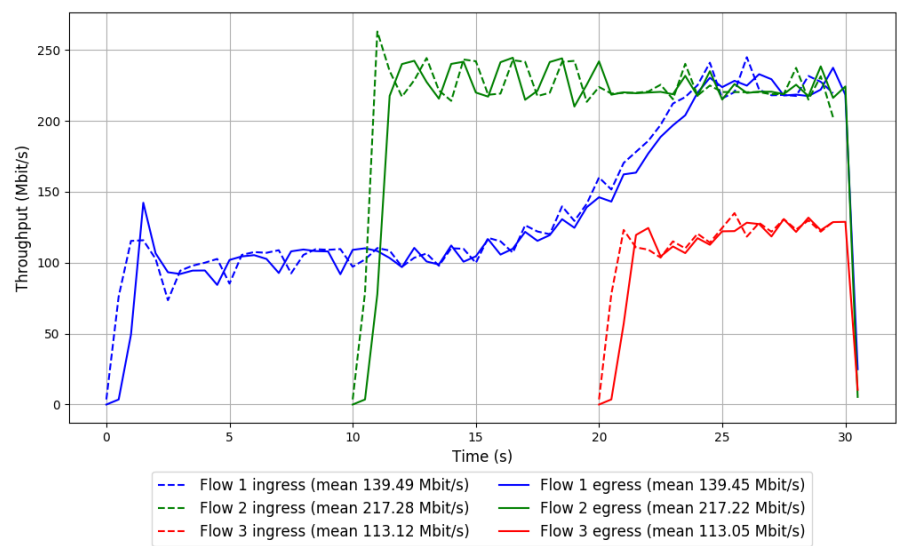


Run 6: Statistics of TCP Cubic

Start at: 2018-08-03 12:44:11  
End at: 2018-08-03 12:44:41  
Local clock offset: -0.167 ms  
Remote clock offset: -1.447 ms

# Below is generated by plot.py at 2018-08-03 15:35:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 321.62 Mbit/s  
95th percentile per-packet one-way delay: 60.248 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 139.45 Mbit/s  
95th percentile per-packet one-way delay: 60.818 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 217.22 Mbit/s  
95th percentile per-packet one-way delay: 60.209 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 113.05 Mbit/s  
95th percentile per-packet one-way delay: 57.767 ms  
Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link

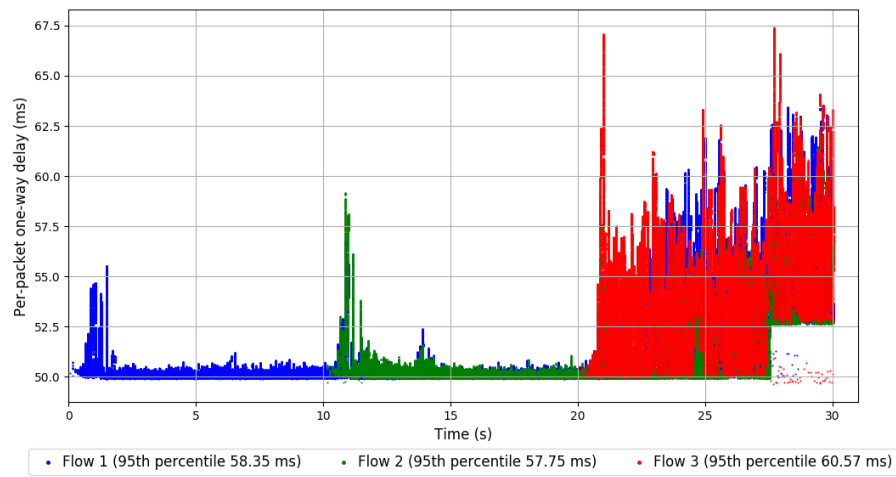
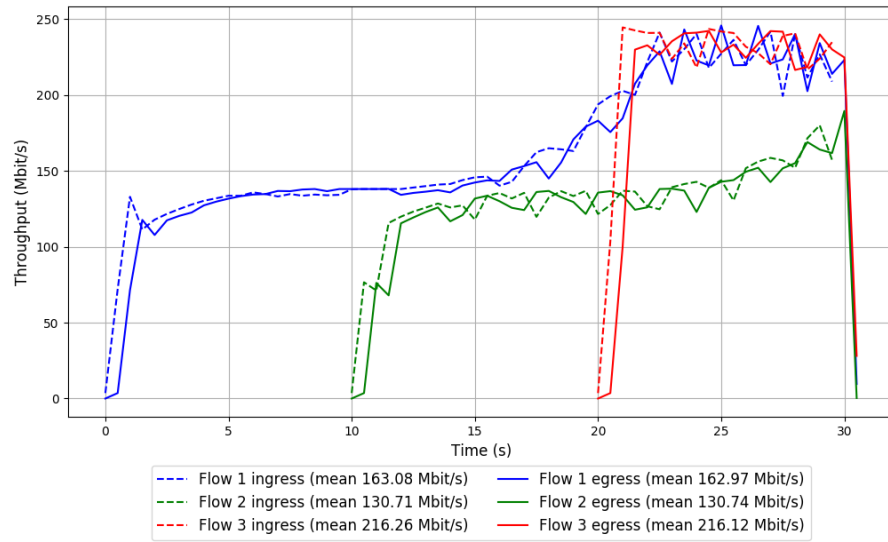


Run 7: Statistics of TCP Cubic

Start at: 2018-08-03 13:09:36  
End at: 2018-08-03 13:10:06  
Local clock offset: 0.033 ms  
Remote clock offset: -0.455 ms

# Below is generated by plot.py at 2018-08-03 15:35:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 321.96 Mbit/s  
95th percentile per-packet one-way delay: 58.930 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 162.97 Mbit/s  
95th percentile per-packet one-way delay: 58.347 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 130.74 Mbit/s  
95th percentile per-packet one-way delay: 57.747 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 216.12 Mbit/s  
95th percentile per-packet one-way delay: 60.568 ms  
Loss rate: 0.00%

# Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-08-03 13:34:48

End at: 2018-08-03 13:35:18

Local clock offset: -0.142 ms

Remote clock offset: 0.112 ms

# Below is generated by plot.py at 2018-08-03 15:35:11

# Datalink statistics

-- Total of 3 flows:

Average throughput: 299.71 Mbit/s

95th percentile per-packet one-way delay: 56.476 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 175.12 Mbit/s

95th percentile per-packet one-way delay: 57.002 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 125.43 Mbit/s

95th percentile per-packet one-way delay: 54.921 ms

Loss rate: 0.00%

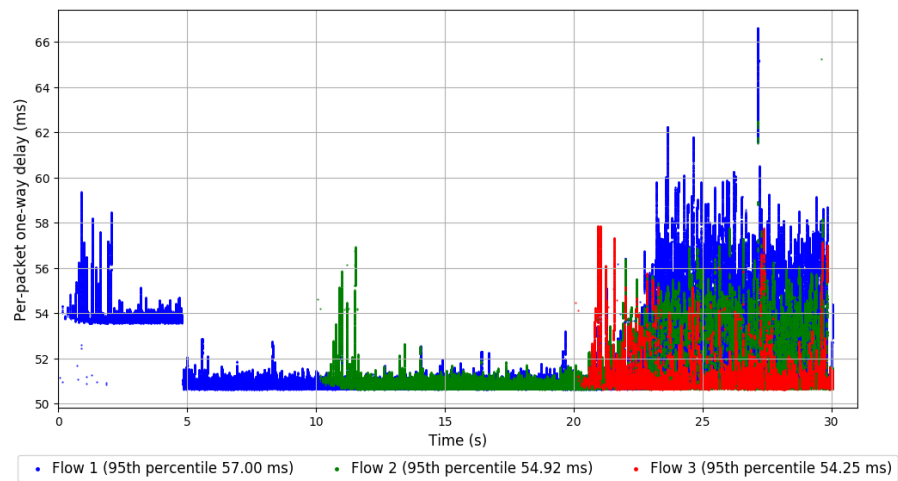
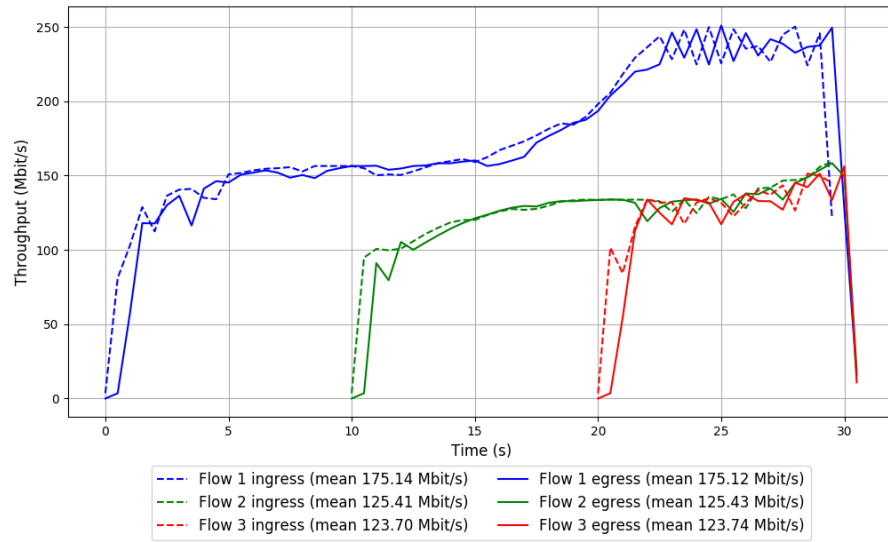
-- Flow 3:

Average throughput: 123.74 Mbit/s

95th percentile per-packet one-way delay: 54.249 ms

Loss rate: 0.00%

# Run 8: Report of TCP Cubic — Data Link

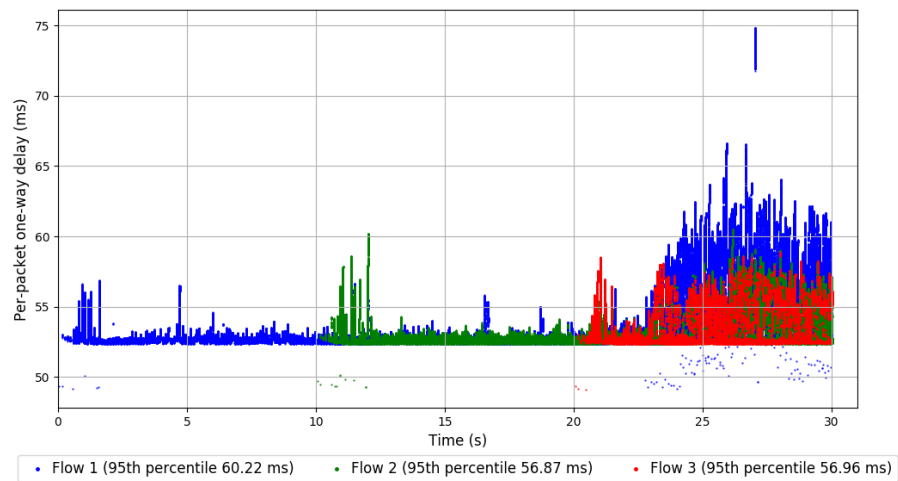
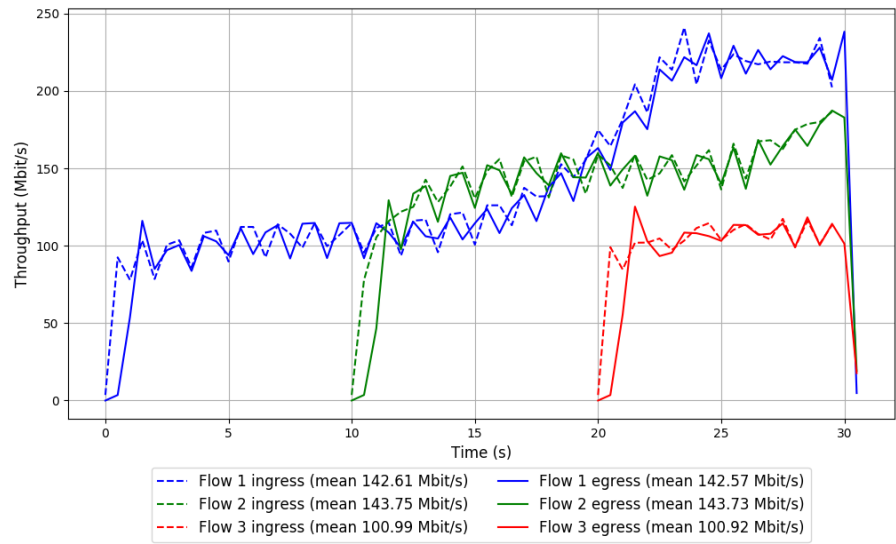


Run 9: Statistics of TCP Cubic

Start at: 2018-08-03 13:59:53  
End at: 2018-08-03 14:00:23  
Local clock offset: 0.109 ms  
Remote clock offset: -1.265 ms

# Below is generated by plot.py at 2018-08-03 15:35:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 271.69 Mbit/s  
95th percentile per-packet one-way delay: 58.880 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 142.57 Mbit/s  
95th percentile per-packet one-way delay: 60.218 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 143.73 Mbit/s  
95th percentile per-packet one-way delay: 56.873 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 100.92 Mbit/s  
95th percentile per-packet one-way delay: 56.956 ms  
Loss rate: 0.00%

# Run 9: Report of TCP Cubic — Data Link

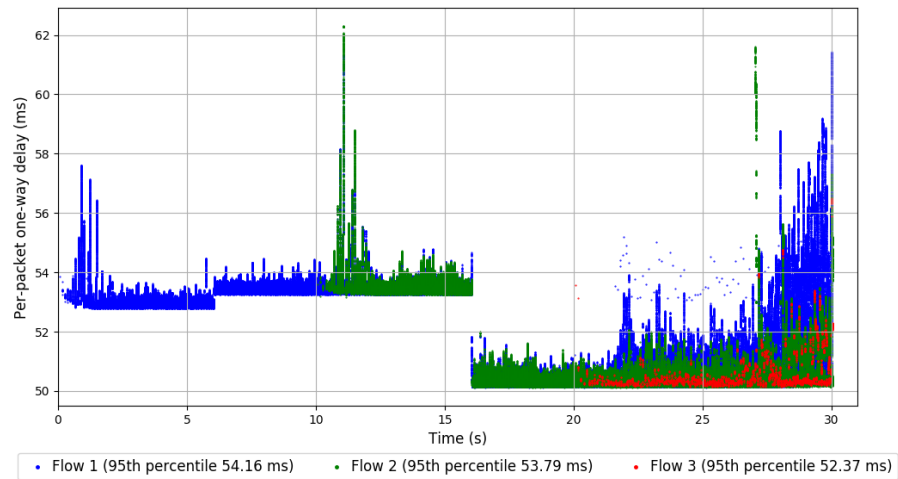
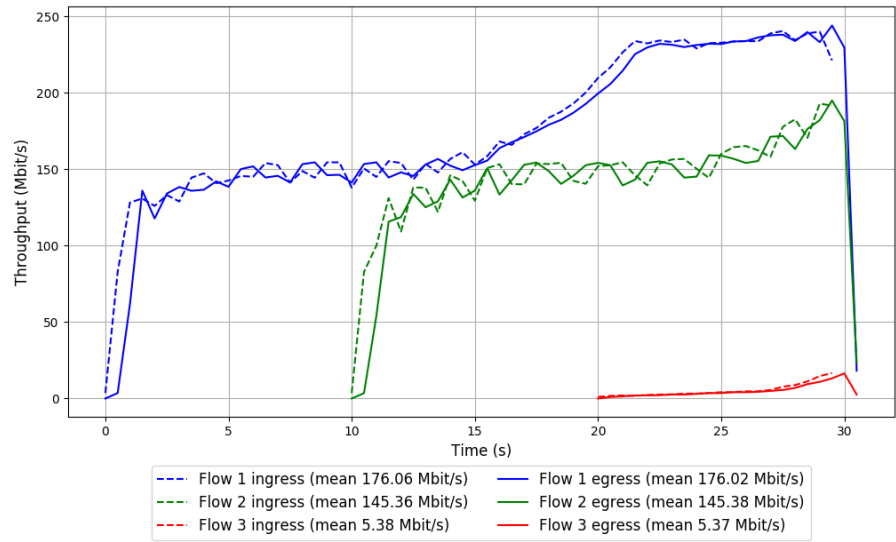


Run 10: Statistics of TCP Cubic

Start at: 2018-08-03 14:25:17  
End at: 2018-08-03 14:25:47  
Local clock offset: -0.015 ms  
Remote clock offset: -0.325 ms

# Below is generated by plot.py at 2018-08-03 15:35:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 274.56 Mbit/s  
95th percentile per-packet one-way delay: 53.985 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 176.02 Mbit/s  
95th percentile per-packet one-way delay: 54.161 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 145.38 Mbit/s  
95th percentile per-packet one-way delay: 53.789 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 5.37 Mbit/s  
95th percentile per-packet one-way delay: 52.369 ms  
Loss rate: 0.04%

# Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-08-03 10:52:11

End at: 2018-08-03 10:52:41

Local clock offset: 0.041 ms

Remote clock offset: 0.048 ms

# Below is generated by plot.py at 2018-08-03 16:00:54

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1538.55 Mbit/s

95th percentile per-packet one-way delay: 125.188 ms

Loss rate: 1.85%

-- Flow 1:

Average throughput: 817.73 Mbit/s

95th percentile per-packet one-way delay: 114.526 ms

Loss rate: 1.28%

-- Flow 2:

Average throughput: 730.99 Mbit/s

95th percentile per-packet one-way delay: 134.570 ms

Loss rate: 3.13%

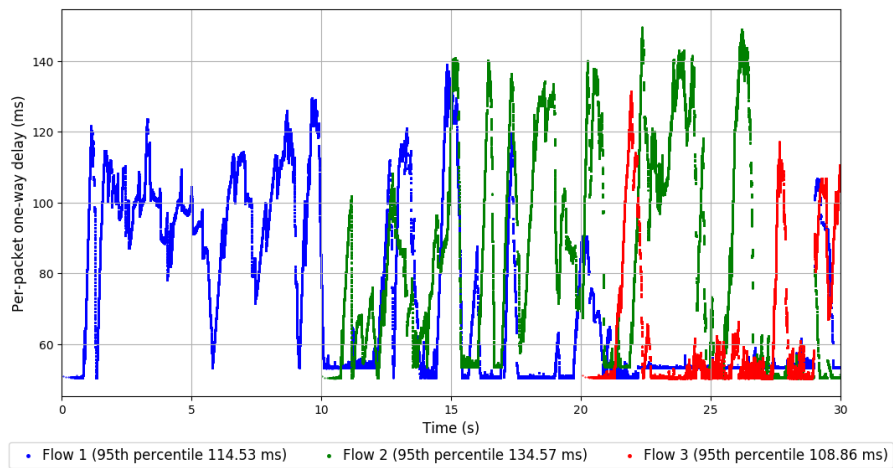
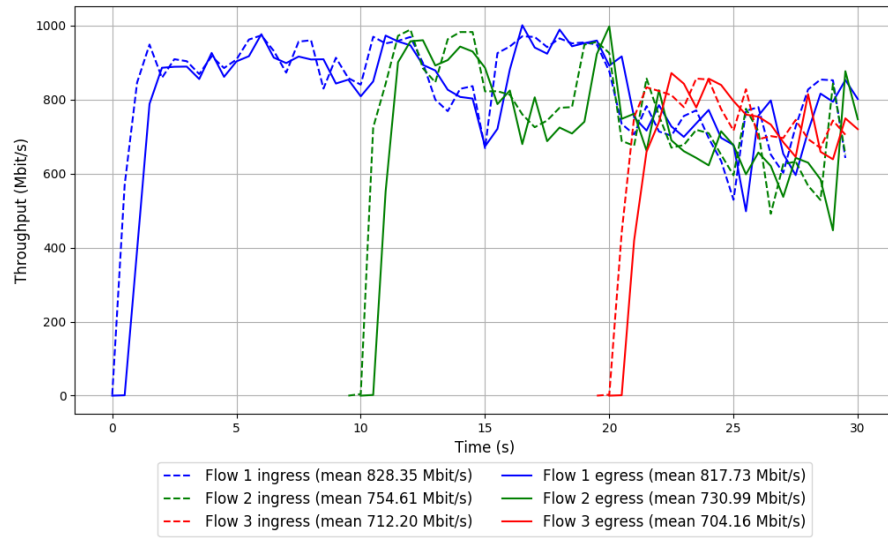
-- Flow 3:

Average throughput: 704.16 Mbit/s

95th percentile per-packet one-way delay: 108.855 ms

Loss rate: 1.12%

# Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-08-03 11:17:39

End at: 2018-08-03 11:18:09

Local clock offset: 0.049 ms

Remote clock offset: 0.046 ms

# Below is generated by plot.py at 2018-08-03 16:01:43

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1512.65 Mbit/s

95th percentile per-packet one-way delay: 112.074 ms

Loss rate: 1.25%

-- Flow 1:

Average throughput: 794.09 Mbit/s

95th percentile per-packet one-way delay: 112.549 ms

Loss rate: 1.53%

-- Flow 2:

Average throughput: 743.39 Mbit/s

95th percentile per-packet one-way delay: 115.321 ms

Loss rate: 1.33%

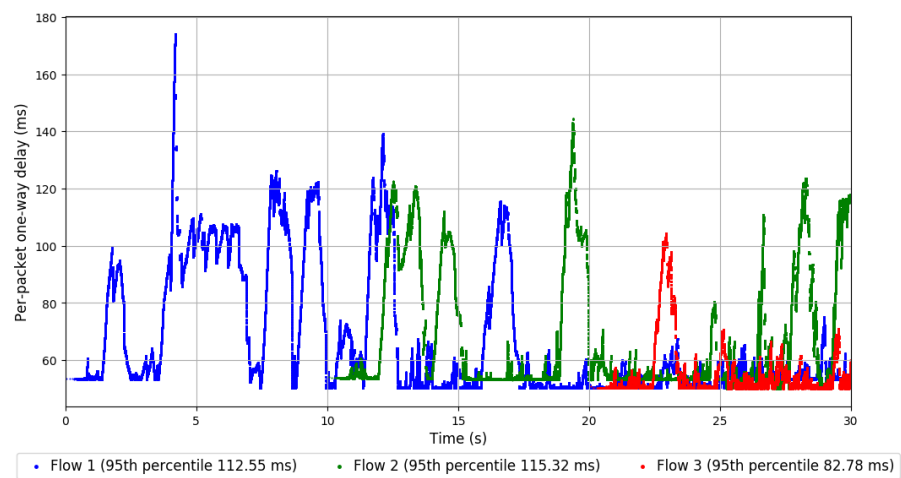
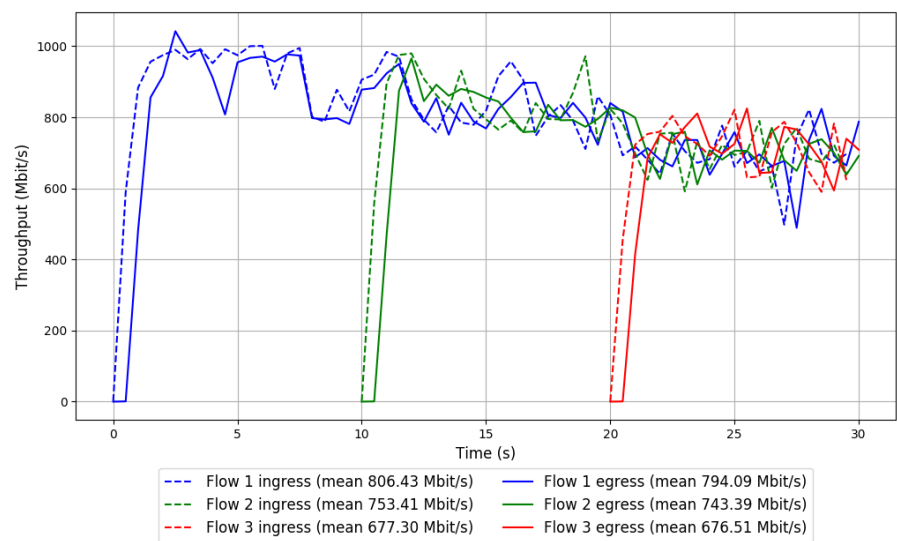
-- Flow 3:

Average throughput: 676.51 Mbit/s

95th percentile per-packet one-way delay: 82.779 ms

Loss rate: 0.07%

Run 2: Report of FillP — Data Link

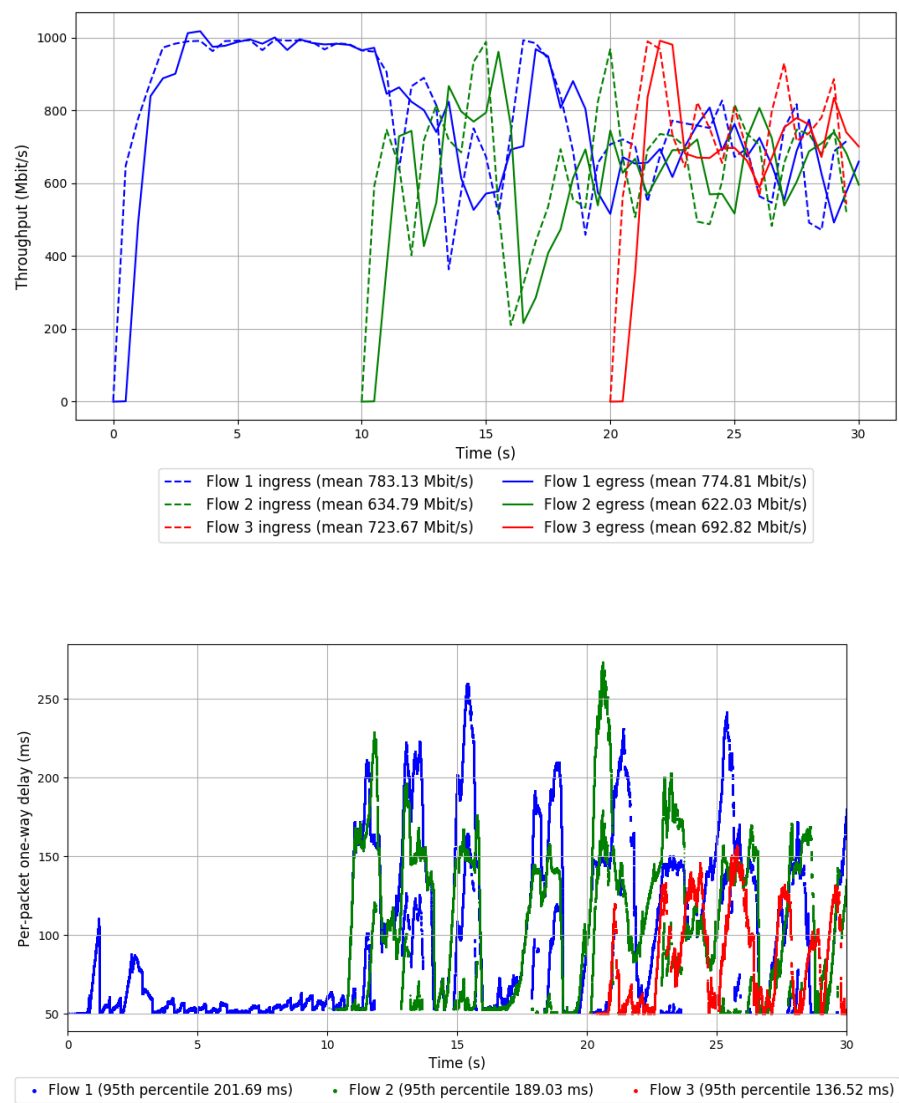


Run 3: Statistics of FillP

Start at: 2018-08-03 11:43:16  
End at: 2018-08-03 11:43:46  
Local clock offset: -0.249 ms  
Remote clock offset: -0.207 ms

# Below is generated by plot.py at 2018-08-03 16:01:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1418.20 Mbit/s  
95th percentile per-packet one-way delay: 191.979 ms  
Loss rate: 1.87%  
-- Flow 1:  
Average throughput: 774.81 Mbit/s  
95th percentile per-packet one-way delay: 201.693 ms  
Loss rate: 1.05%  
-- Flow 2:  
Average throughput: 622.03 Mbit/s  
95th percentile per-packet one-way delay: 189.035 ms  
Loss rate: 2.01%  
-- Flow 3:  
Average throughput: 692.82 Mbit/s  
95th percentile per-packet one-way delay: 136.518 ms  
Loss rate: 4.27%

Run 3: Report of FillP — Data Link

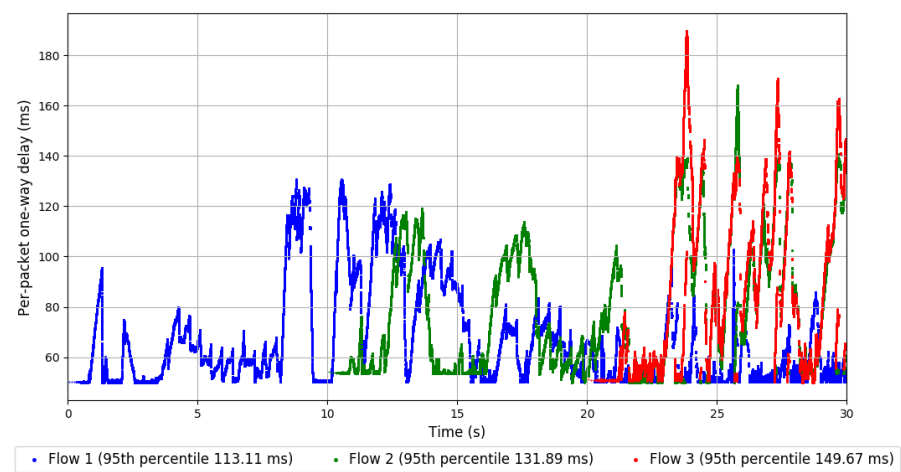
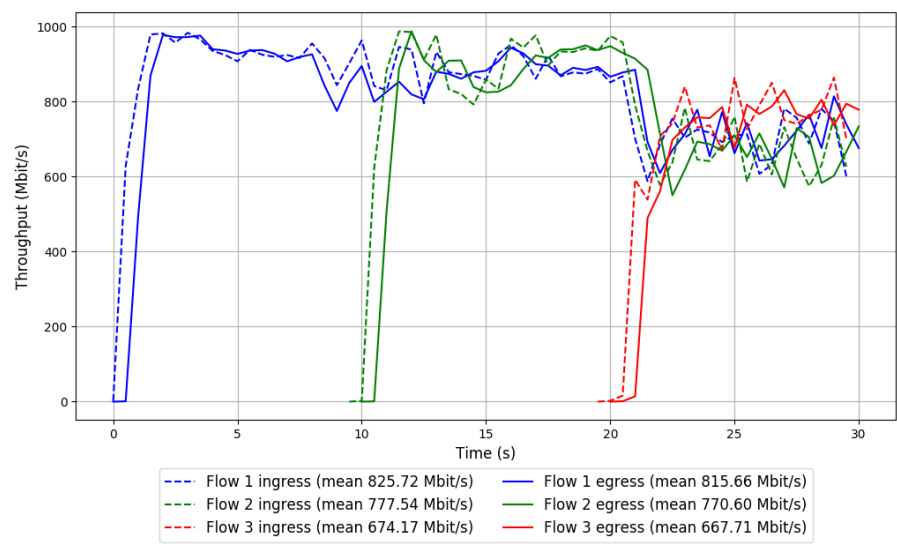


Run 4: Statistics of FillP

Start at: 2018-08-03 12:08:27  
End at: 2018-08-03 12:08:57  
Local clock offset: -0.012 ms  
Remote clock offset: -0.127 ms

# Below is generated by plot.py at 2018-08-03 16:03:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1550.51 Mbit/s  
95th percentile per-packet one-way delay: 127.383 ms  
Loss rate: 1.05%  
-- Flow 1:  
Average throughput: 815.66 Mbit/s  
95th percentile per-packet one-way delay: 113.112 ms  
Loss rate: 1.21%  
-- Flow 2:  
Average throughput: 770.60 Mbit/s  
95th percentile per-packet one-way delay: 131.886 ms  
Loss rate: 0.84%  
-- Flow 3:  
Average throughput: 667.71 Mbit/s  
95th percentile per-packet one-way delay: 149.669 ms  
Loss rate: 0.91%

Run 4: Report of FillP — Data Link

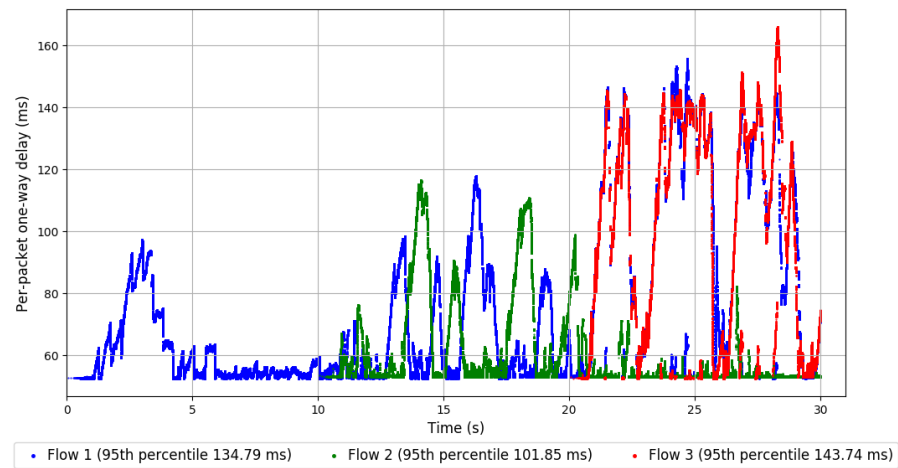
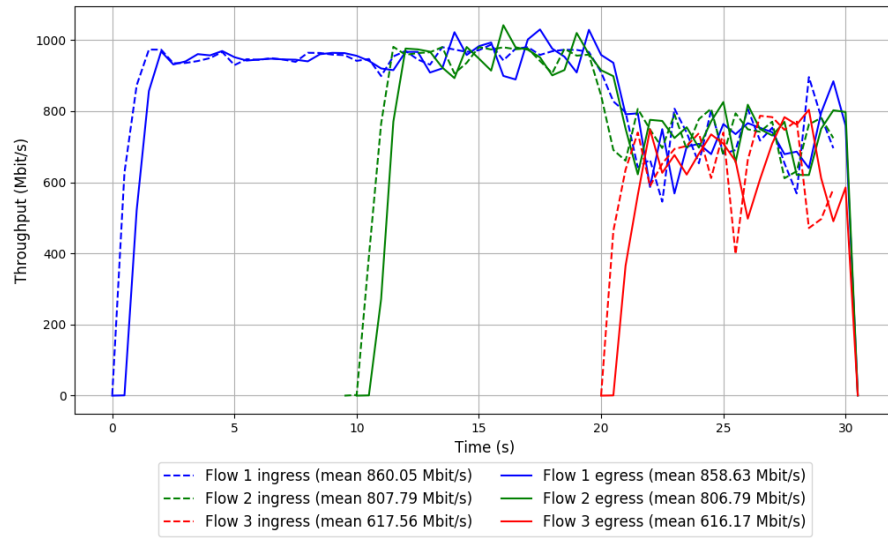


Run 5: Statistics of FillP

Start at: 2018-08-03 12:33:46  
End at: 2018-08-03 12:34:16  
Local clock offset: 0.117 ms  
Remote clock offset: -0.353 ms

# Below is generated by plot.py at 2018-08-03 16:04:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1600.42 Mbit/s  
95th percentile per-packet one-way delay: 136.664 ms  
Loss rate: 0.16%  
-- Flow 1:  
Average throughput: 858.63 Mbit/s  
95th percentile per-packet one-way delay: 134.786 ms  
Loss rate: 0.16%  
-- Flow 2:  
Average throughput: 806.79 Mbit/s  
95th percentile per-packet one-way delay: 101.851 ms  
Loss rate: 0.13%  
-- Flow 3:  
Average throughput: 616.17 Mbit/s  
95th percentile per-packet one-way delay: 143.742 ms  
Loss rate: 0.24%

# Run 5: Report of FillP — Data Link

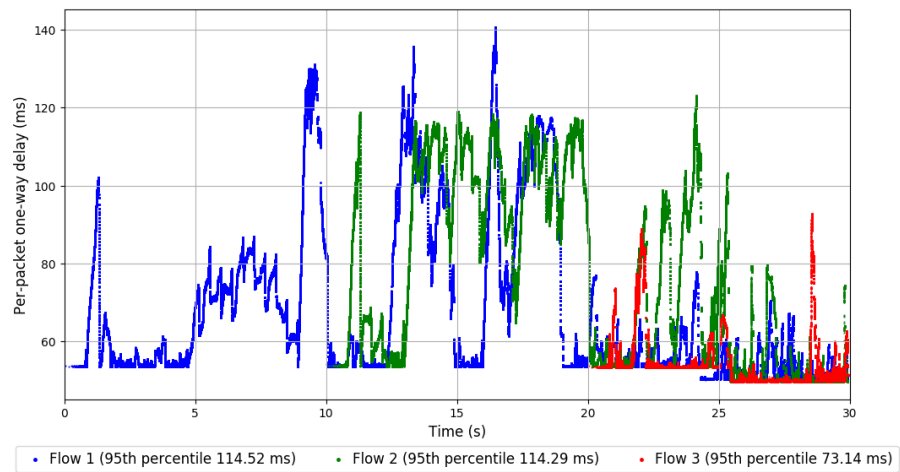
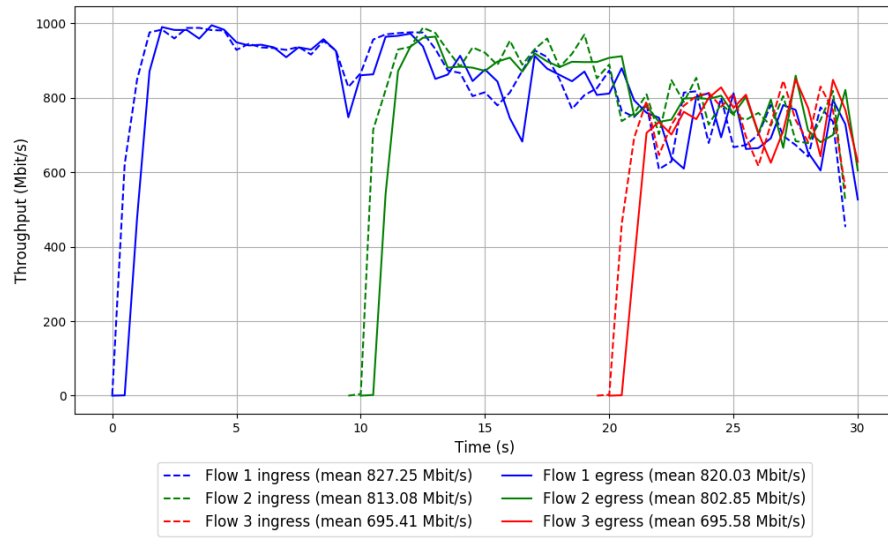


Run 6: Statistics of FillP

Start at: 2018-08-03 12:58:49  
End at: 2018-08-03 12:59:19  
Local clock offset: 0.004 ms  
Remote clock offset: -0.334 ms

# Below is generated by plot.py at 2018-08-03 16:04:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1585.61 Mbit/s  
95th percentile per-packet one-way delay: 113.715 ms  
Loss rate: 0.89%  
-- Flow 1:  
Average throughput: 820.03 Mbit/s  
95th percentile per-packet one-way delay: 114.519 ms  
Loss rate: 0.88%  
-- Flow 2:  
Average throughput: 802.85 Mbit/s  
95th percentile per-packet one-way delay: 114.293 ms  
Loss rate: 1.28%  
-- Flow 3:  
Average throughput: 695.58 Mbit/s  
95th percentile per-packet one-way delay: 73.142 ms  
Loss rate: 0.00%

# Run 6: Report of FillP — Data Link

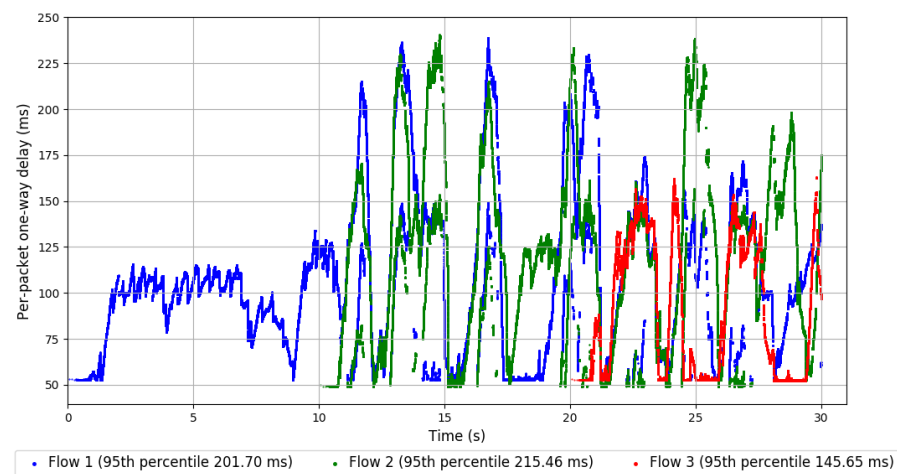
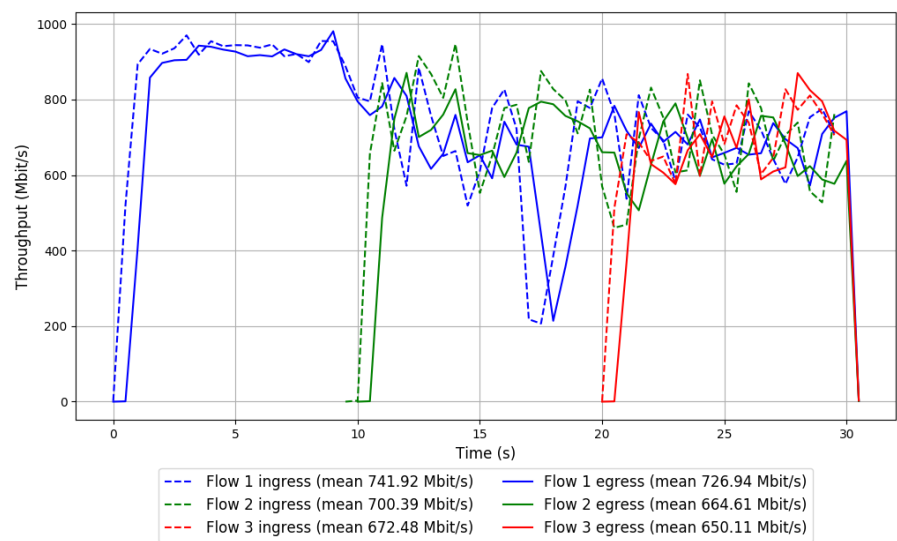


Run 7: Statistics of FillP

Start at: 2018-08-03 13:24:16  
End at: 2018-08-03 13:24:46  
Local clock offset: 0.021 ms  
Remote clock offset: -1.2 ms

# Below is generated by plot.py at 2018-08-03 16:04:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1385.43 Mbit/s  
95th percentile per-packet one-way delay: 204.720 ms  
Loss rate: 3.23%  
-- Flow 1:  
Average throughput: 726.94 Mbit/s  
95th percentile per-packet one-way delay: 201.696 ms  
Loss rate: 2.02%  
-- Flow 2:  
Average throughput: 664.61 Mbit/s  
95th percentile per-packet one-way delay: 215.455 ms  
Loss rate: 5.09%  
-- Flow 3:  
Average throughput: 650.11 Mbit/s  
95th percentile per-packet one-way delay: 145.645 ms  
Loss rate: 3.33%

Run 7: Report of FillP — Data Link

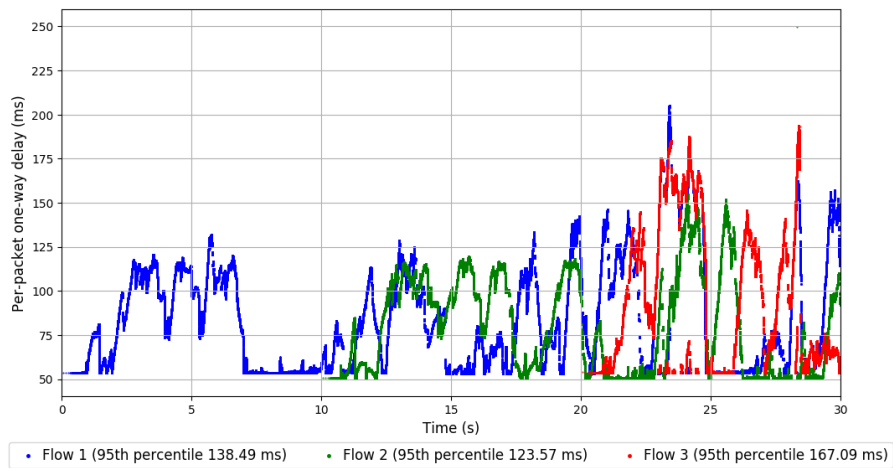
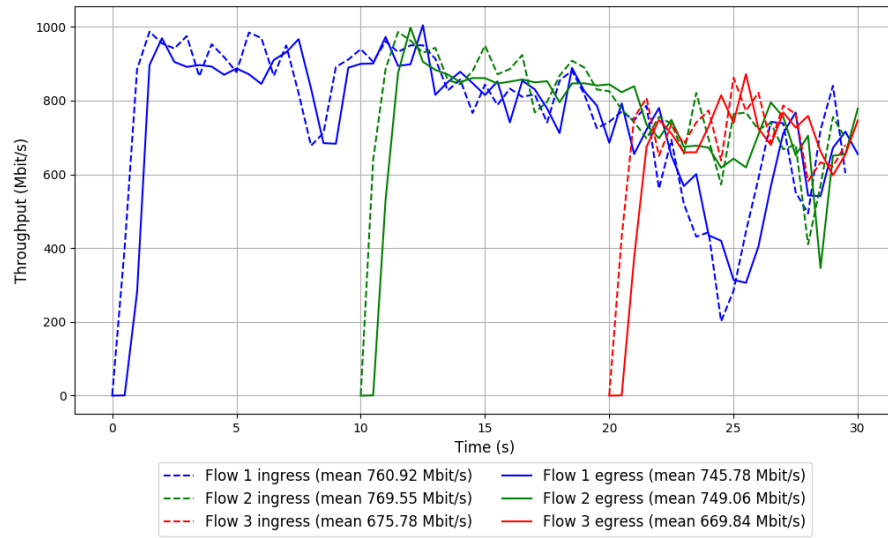


Run 8: Statistics of FillP

Start at: 2018-08-03 13:49:41  
End at: 2018-08-03 13:50:11  
Local clock offset: -0.218 ms  
Remote clock offset: -0.405 ms

# Below is generated by plot.py at 2018-08-03 16:04:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1466.65 Mbit/s  
95th percentile per-packet one-way delay: 143.469 ms  
Loss rate: 2.04%  
-- Flow 1:  
Average throughput: 745.78 Mbit/s  
95th percentile per-packet one-way delay: 138.491 ms  
Loss rate: 1.99%  
-- Flow 2:  
Average throughput: 749.06 Mbit/s  
95th percentile per-packet one-way delay: 123.571 ms  
Loss rate: 2.64%  
-- Flow 3:  
Average throughput: 669.84 Mbit/s  
95th percentile per-packet one-way delay: 167.093 ms  
Loss rate: 0.87%

## Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-08-03 14:14:28

End at: 2018-08-03 14:14:58

Local clock offset: -0.009 ms

Remote clock offset: 0.124 ms

# Below is generated by plot.py at 2018-08-03 16:28:46

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1509.88 Mbit/s

95th percentile per-packet one-way delay: 126.769 ms

Loss rate: 2.31%

-- Flow 1:

Average throughput: 772.99 Mbit/s

95th percentile per-packet one-way delay: 130.802 ms

Loss rate: 3.21%

-- Flow 2:

Average throughput: 763.38 Mbit/s

95th percentile per-packet one-way delay: 115.773 ms

Loss rate: 1.52%

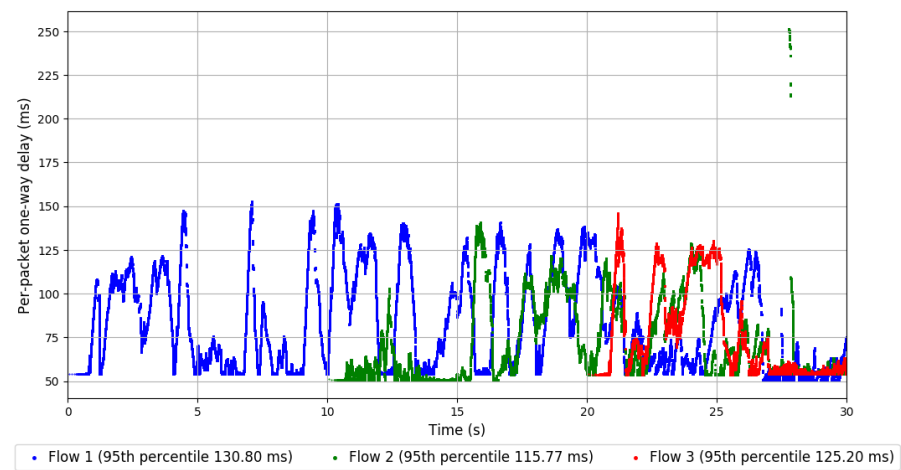
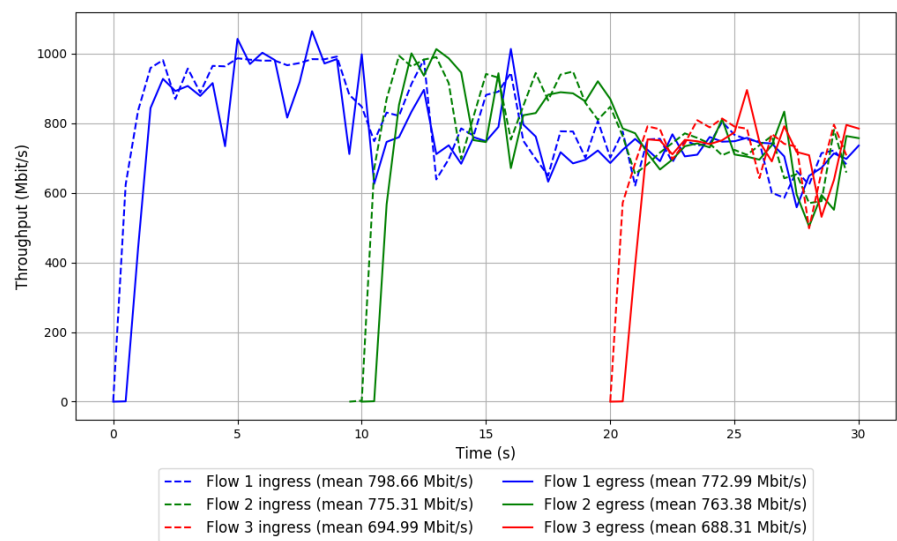
-- Flow 3:

Average throughput: 688.31 Mbit/s

95th percentile per-packet one-way delay: 125.198 ms

Loss rate: 0.96%

Run 9: Report of FillP — Data Link

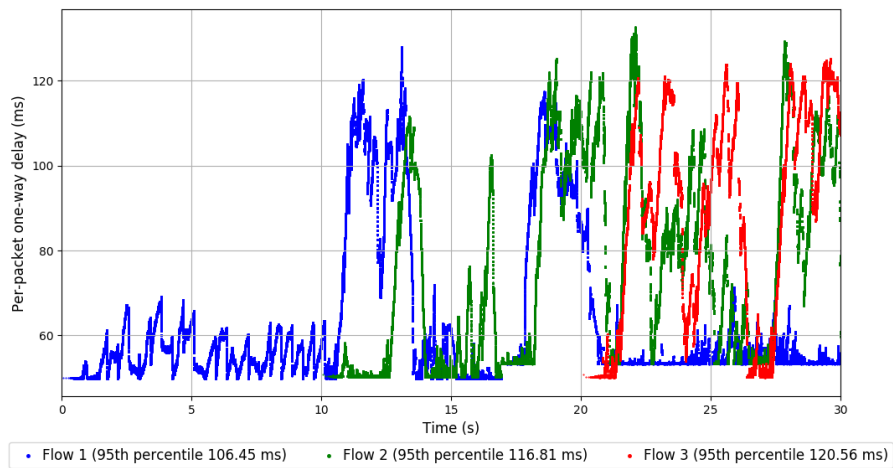
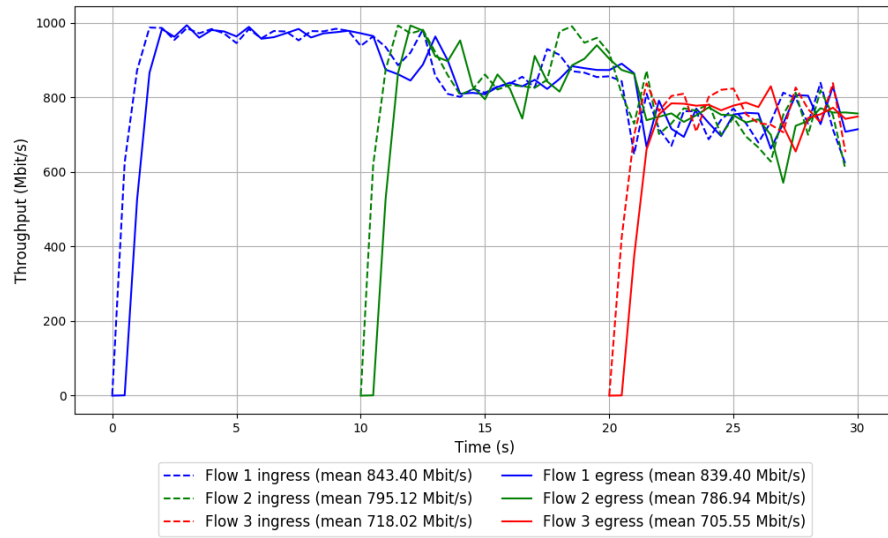


Run 10: Statistics of FillP

Start at: 2018-08-03 14:39:57  
End at: 2018-08-03 14:40:27  
Local clock offset: 0.188 ms  
Remote clock offset: -0.119 ms

# Below is generated by plot.py at 2018-08-03 16:30:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1596.36 Mbit/s  
95th percentile per-packet one-way delay: 115.378 ms  
Loss rate: 0.82%  
-- Flow 1:  
Average throughput: 839.40 Mbit/s  
95th percentile per-packet one-way delay: 106.451 ms  
Loss rate: 0.45%  
-- Flow 2:  
Average throughput: 786.94 Mbit/s  
95th percentile per-packet one-way delay: 116.807 ms  
Loss rate: 1.01%  
-- Flow 3:  
Average throughput: 705.55 Mbit/s  
95th percentile per-packet one-way delay: 120.556 ms  
Loss rate: 1.71%

# Run 10: Report of FillP — Data Link

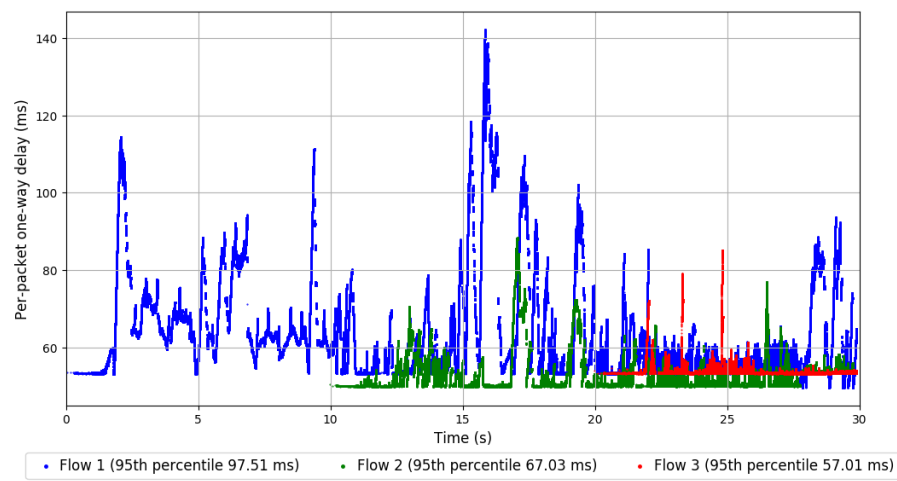
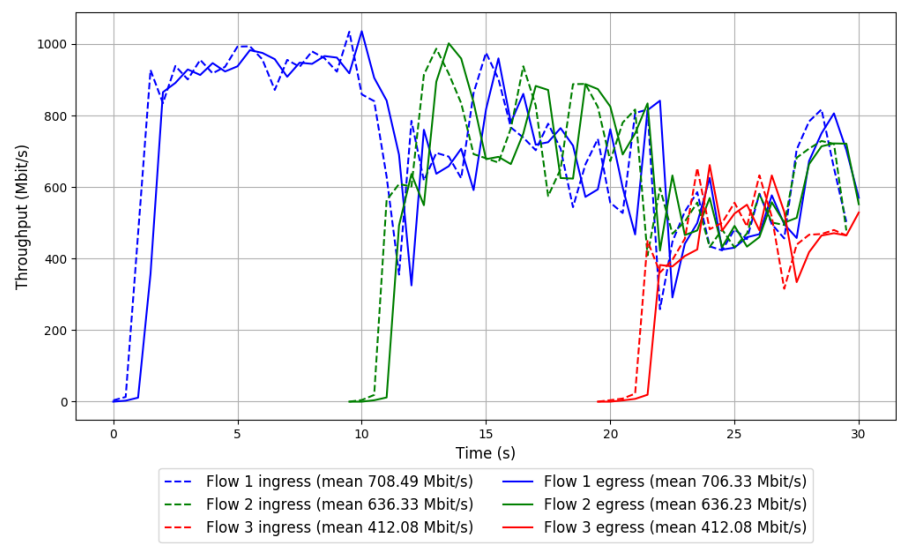


Run 1: Statistics of FillP-Sheep

Start at: 2018-08-03 10:46:15  
End at: 2018-08-03 10:46:45  
Local clock offset: 0.18 ms  
Remote clock offset: -0.247 ms

# Below is generated by plot.py at 2018-08-03 16:30:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1267.95 Mbit/s  
95th percentile per-packet one-way delay: 85.618 ms  
Loss rate: 0.17%  
-- Flow 1:  
Average throughput: 706.33 Mbit/s  
95th percentile per-packet one-way delay: 97.510 ms  
Loss rate: 0.30%  
-- Flow 2:  
Average throughput: 636.23 Mbit/s  
95th percentile per-packet one-way delay: 67.030 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 412.08 Mbit/s  
95th percentile per-packet one-way delay: 57.009 ms  
Loss rate: 0.00%

Run 1: Report of FillP-Sheep — Data Link

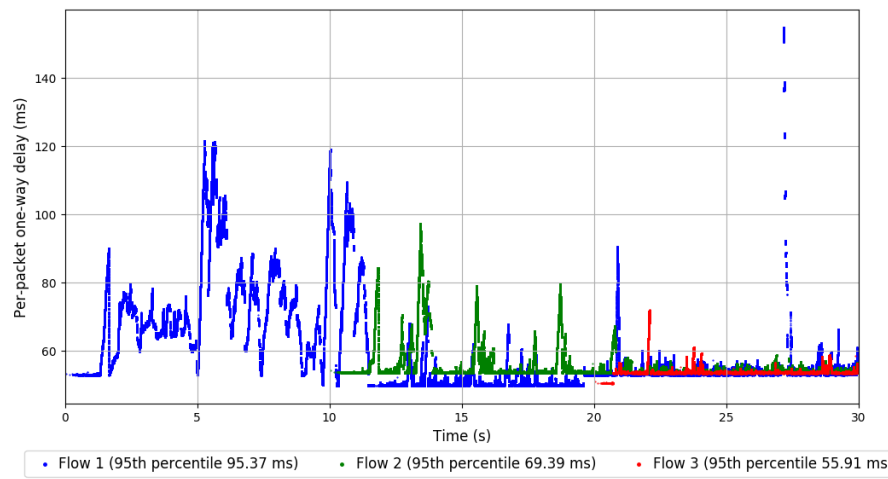
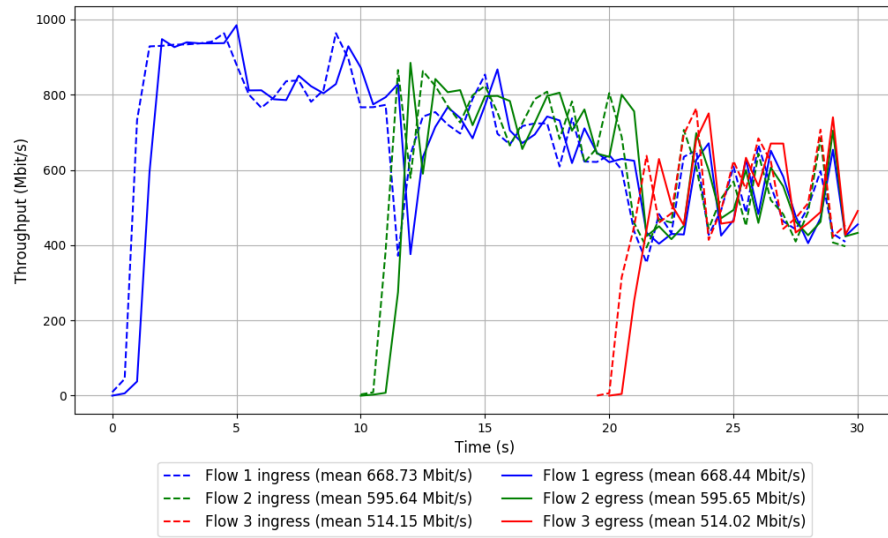


Run 2: Statistics of FillP-Sheep

Start at: 2018-08-03 11:11:44  
End at: 2018-08-03 11:12:14  
Local clock offset: -0.018 ms  
Remote clock offset: -0.211 ms

# Below is generated by plot.py at 2018-08-03 16:30:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1235.56 Mbit/s  
95th percentile per-packet one-way delay: 84.312 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 668.44 Mbit/s  
95th percentile per-packet one-way delay: 95.370 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 595.65 Mbit/s  
95th percentile per-packet one-way delay: 69.385 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 514.02 Mbit/s  
95th percentile per-packet one-way delay: 55.912 ms  
Loss rate: 0.00%

## Run 2: Report of FillP-Sheep — Data Link

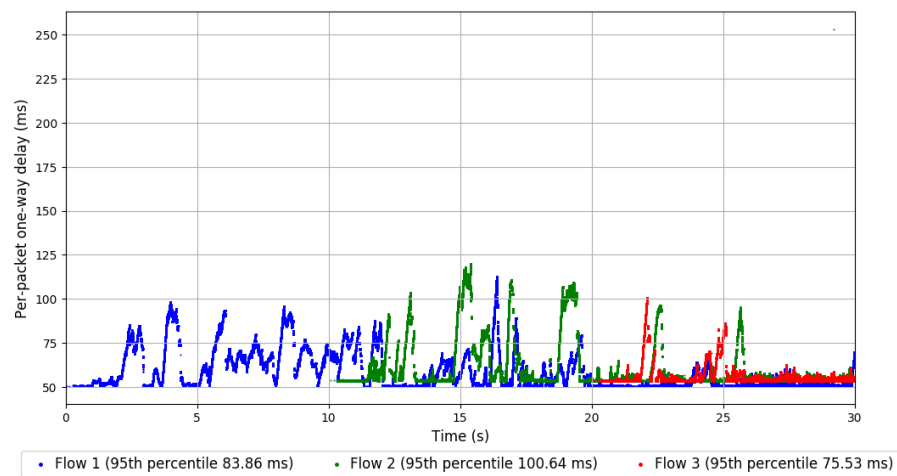
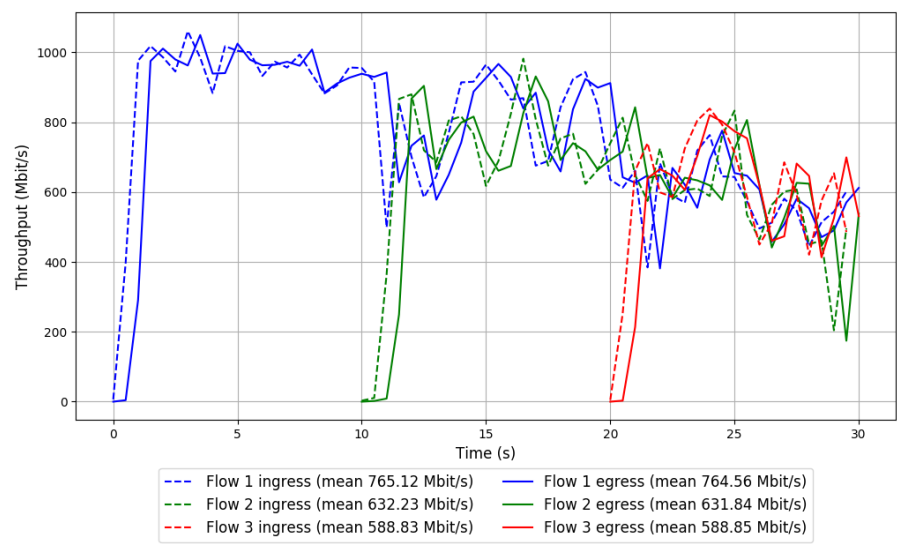


Run 3: Statistics of FillP-Sheep

Start at: 2018-08-03 11:37:09  
End at: 2018-08-03 11:37:39  
Local clock offset: 0.09 ms  
Remote clock offset: -0.146 ms

# Below is generated by plot.py at 2018-08-03 16:30:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1379.62 Mbit/s  
95th percentile per-packet one-way delay: 87.750 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 764.56 Mbit/s  
95th percentile per-packet one-way delay: 83.865 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 631.84 Mbit/s  
95th percentile per-packet one-way delay: 100.642 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 588.85 Mbit/s  
95th percentile per-packet one-way delay: 75.534 ms  
Loss rate: 0.00%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2018-08-03 12:02:27

End at: 2018-08-03 12:02:57

Local clock offset: -0.054 ms

Remote clock offset: 0.066 ms

# Below is generated by plot.py at 2018-08-03 16:30:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1318.59 Mbit/s

95th percentile per-packet one-way delay: 104.699 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 695.90 Mbit/s

95th percentile per-packet one-way delay: 102.872 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 665.51 Mbit/s

95th percentile per-packet one-way delay: 113.133 ms

Loss rate: 0.20%

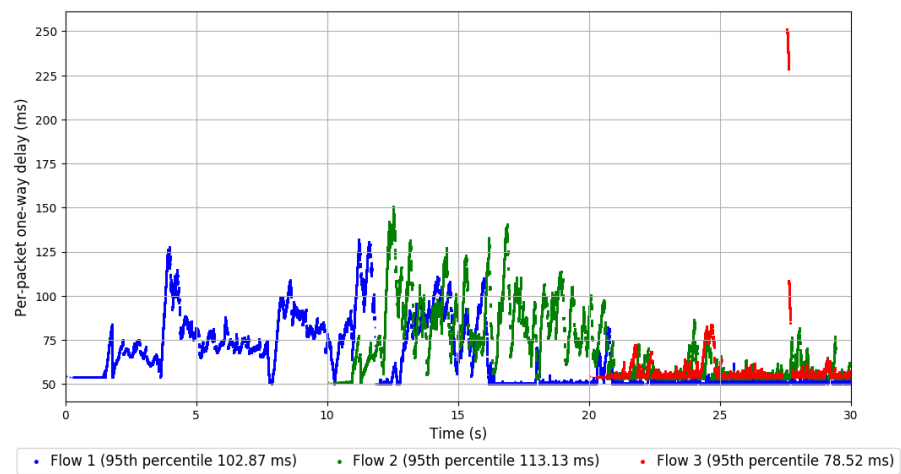
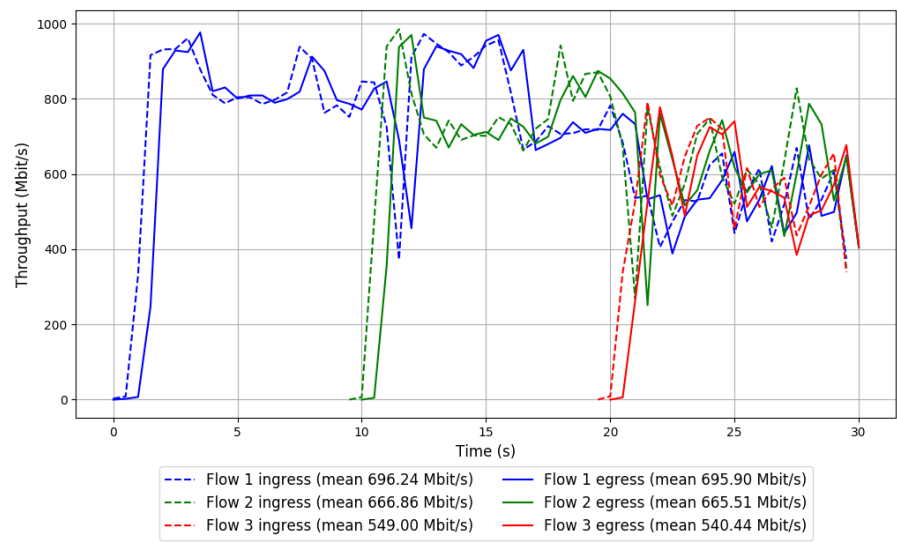
-- Flow 3:

Average throughput: 540.44 Mbit/s

95th percentile per-packet one-way delay: 78.515 ms

Loss rate: 1.53%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2018-08-03 12:27:47

End at: 2018-08-03 12:28:17

Local clock offset: -0.107 ms

Remote clock offset: 0.996 ms

# Below is generated by plot.py at 2018-08-03 16:30:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1254.97 Mbit/s

95th percentile per-packet one-way delay: 132.832 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 729.13 Mbit/s

95th percentile per-packet one-way delay: 129.303 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 554.79 Mbit/s

95th percentile per-packet one-way delay: 140.601 ms

Loss rate: 0.00%

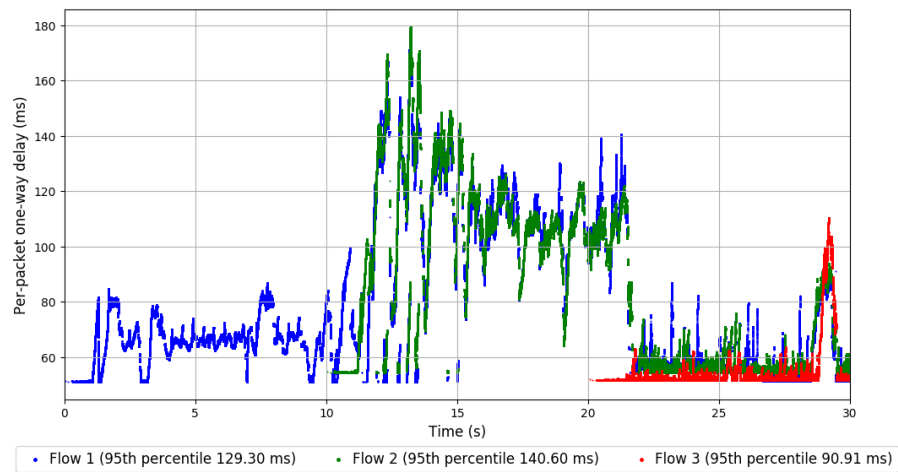
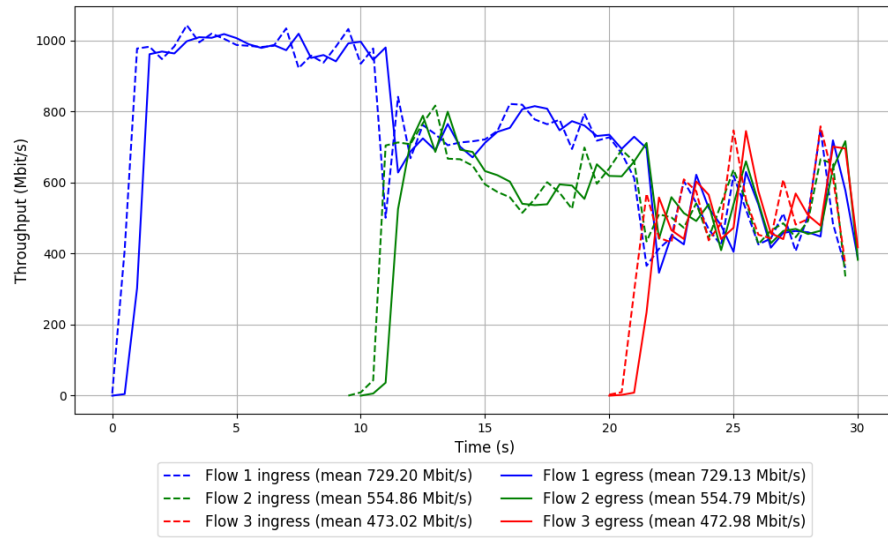
-- Flow 3:

Average throughput: 472.98 Mbit/s

95th percentile per-packet one-way delay: 90.905 ms

Loss rate: 0.00%

## Run 5: Report of FillP-Sheep — Data Link

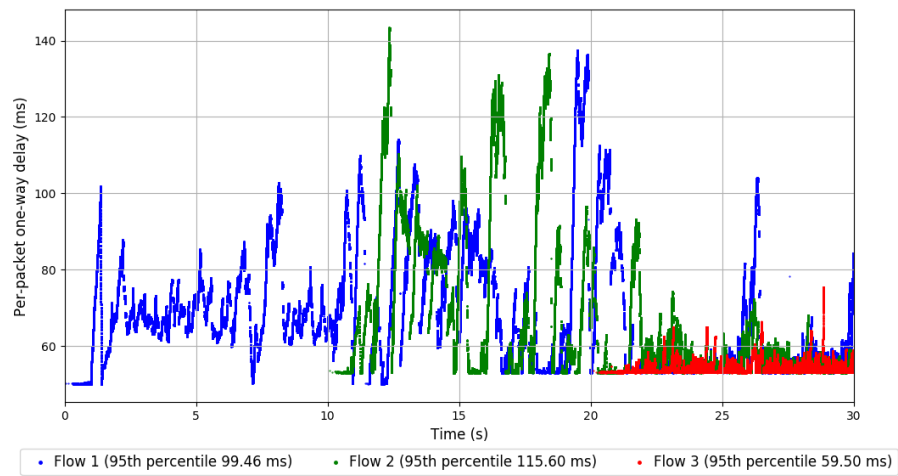
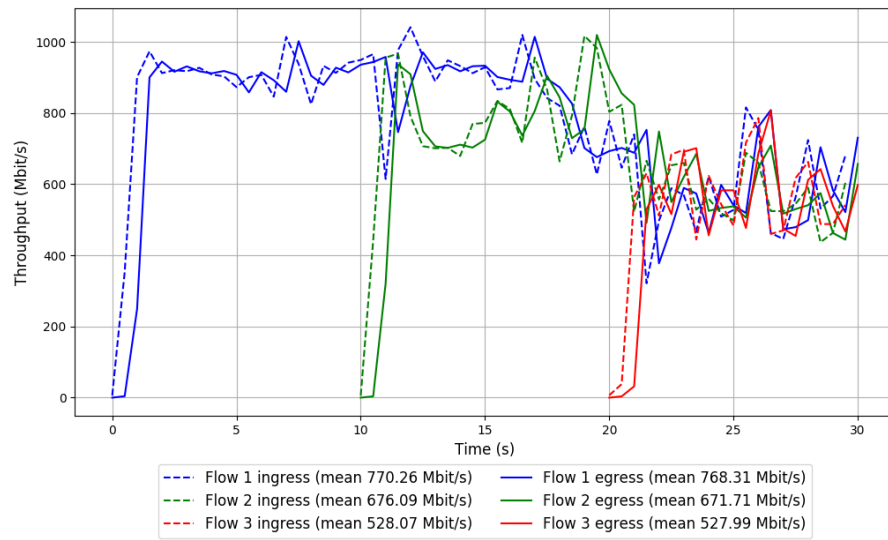


Run 6: Statistics of FillP-Sheep

Start at: 2018-08-03 12:52:51  
End at: 2018-08-03 12:53:21  
Local clock offset: 0.193 ms  
Remote clock offset: -0.206 ms

# Below is generated by plot.py at 2018-08-03 16:30:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1389.71 Mbit/s  
95th percentile per-packet one-way delay: 102.674 ms  
Loss rate: 0.34%  
-- Flow 1:  
Average throughput: 768.31 Mbit/s  
95th percentile per-packet one-way delay: 99.456 ms  
Loss rate: 0.22%  
-- Flow 2:  
Average throughput: 671.71 Mbit/s  
95th percentile per-packet one-way delay: 115.600 ms  
Loss rate: 0.66%  
-- Flow 3:  
Average throughput: 527.99 Mbit/s  
95th percentile per-packet one-way delay: 59.502 ms  
Loss rate: 0.06%

## Run 6: Report of FillP-Sheep — Data Link



Run 7: Statistics of FillP-Sheep

Start at: 2018-08-03 13:18:17

End at: 2018-08-03 13:18:47

Local clock offset: 0.036 ms

Remote clock offset: 1.141 ms

# Below is generated by plot.py at 2018-08-03 16:49:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1294.92 Mbit/s

95th percentile per-packet one-way delay: 91.020 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 732.44 Mbit/s

95th percentile per-packet one-way delay: 92.695 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 630.28 Mbit/s

95th percentile per-packet one-way delay: 89.070 ms

Loss rate: 0.00%

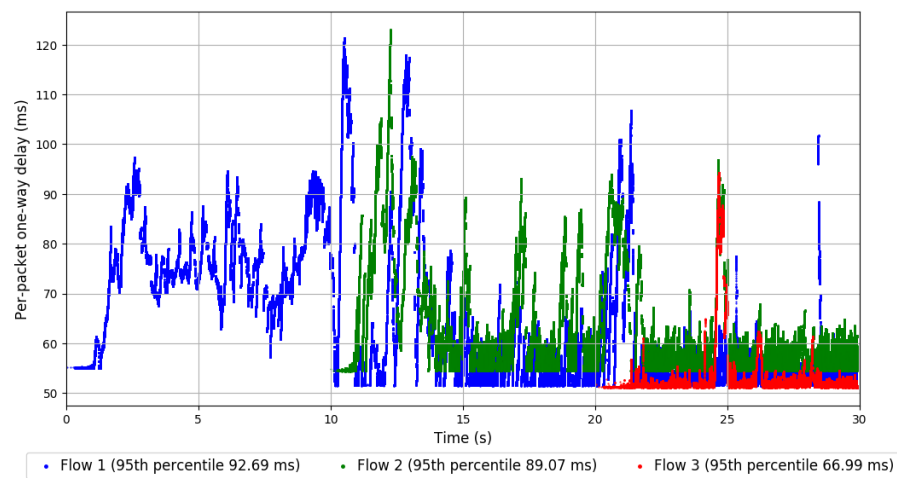
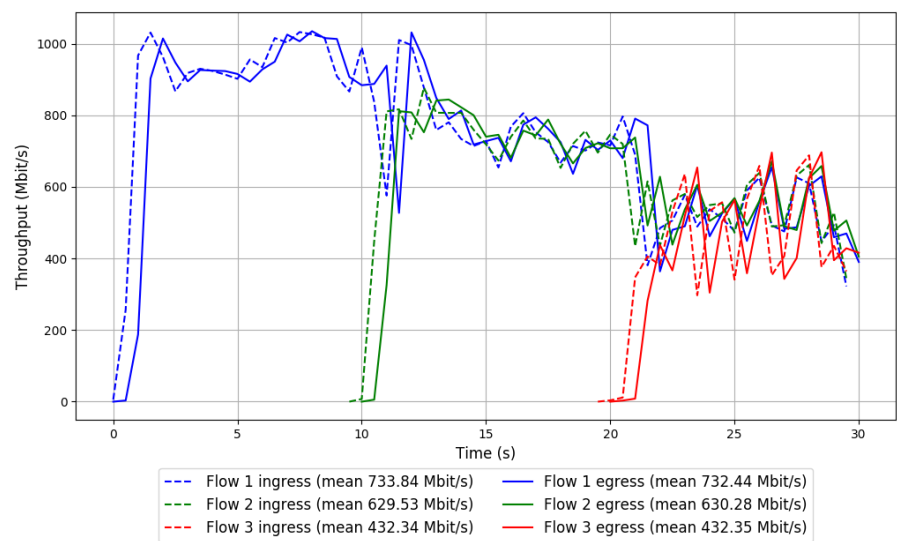
-- Flow 3:

Average throughput: 432.35 Mbit/s

95th percentile per-packet one-way delay: 66.986 ms

Loss rate: 0.00%

Run 7: Report of FillP-Sheep — Data Link

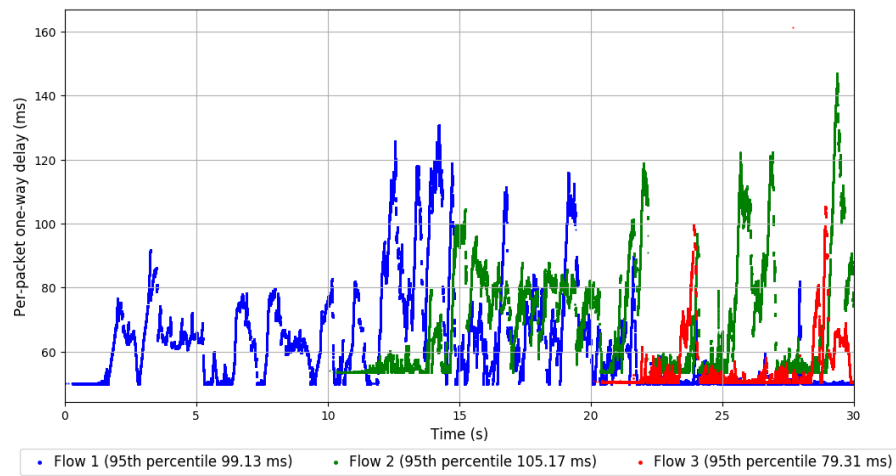
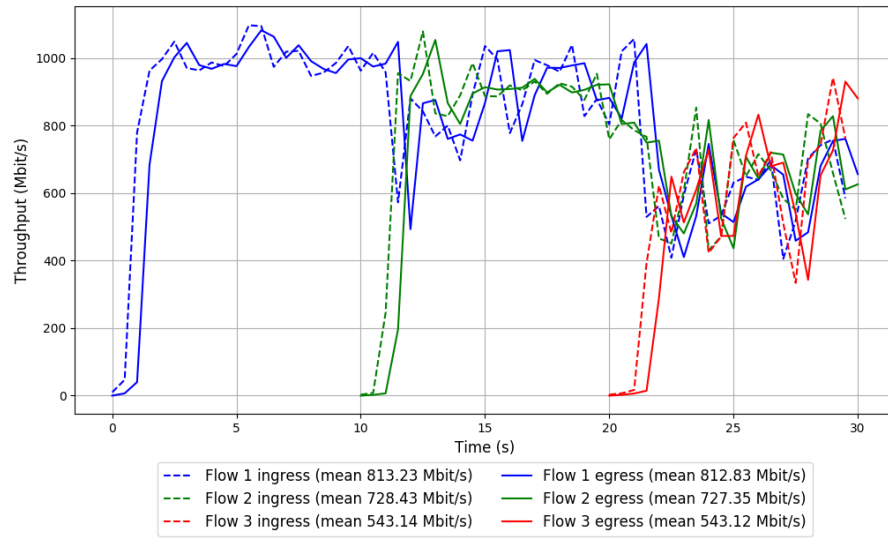


Run 8: Statistics of FillP-Sheep

Start at: 2018-08-03 13:43:33  
End at: 2018-08-03 13:44:03  
Local clock offset: 0.041 ms  
Remote clock offset: -0.114 ms

# Below is generated by plot.py at 2018-08-03 16:53:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1475.81 Mbit/s  
95th percentile per-packet one-way delay: 99.714 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 812.83 Mbit/s  
95th percentile per-packet one-way delay: 99.129 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 727.35 Mbit/s  
95th percentile per-packet one-way delay: 105.165 ms  
Loss rate: 0.17%  
-- Flow 3:  
Average throughput: 543.12 Mbit/s  
95th percentile per-packet one-way delay: 79.308 ms  
Loss rate: 0.02%

# Run 8: Report of FillP-Sheep — Data Link

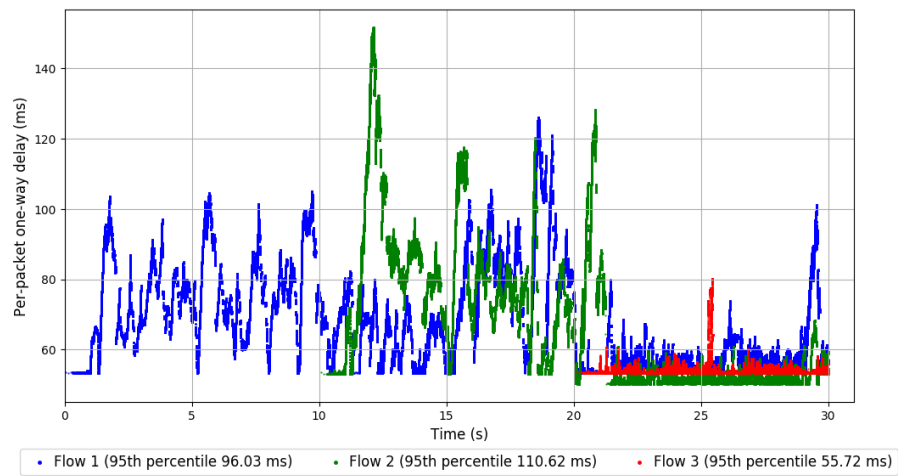
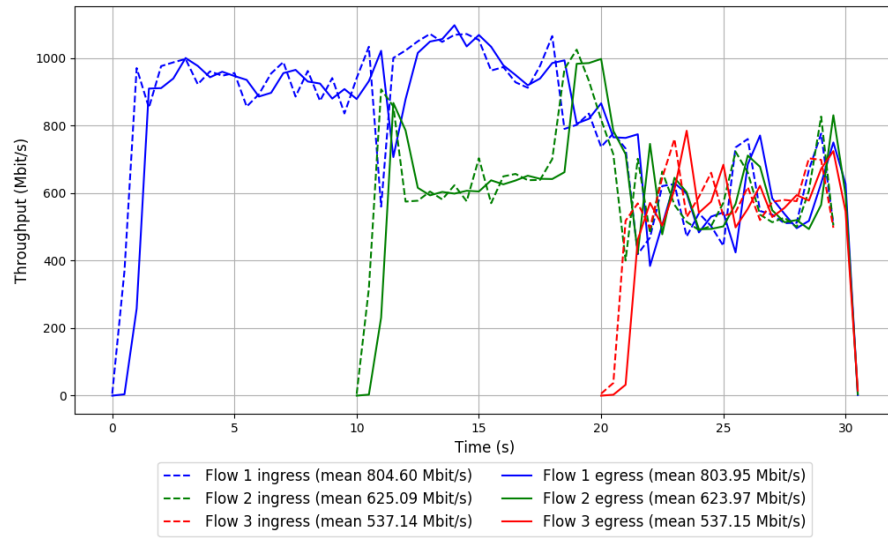


Run 9: Statistics of FillP-Sheep

Start at: 2018-08-03 14:08:25  
End at: 2018-08-03 14:08:55  
Local clock offset: -0.168 ms  
Remote clock offset: -0.551 ms

# Below is generated by plot.py at 2018-08-03 16:54:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1396.94 Mbit/s  
95th percentile per-packet one-way delay: 97.130 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 803.95 Mbit/s  
95th percentile per-packet one-way delay: 96.027 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 623.97 Mbit/s  
95th percentile per-packet one-way delay: 110.621 ms  
Loss rate: 0.18%  
-- Flow 3:  
Average throughput: 537.15 Mbit/s  
95th percentile per-packet one-way delay: 55.716 ms  
Loss rate: 0.00%

## Run 9: Report of FillP-Sheep — Data Link

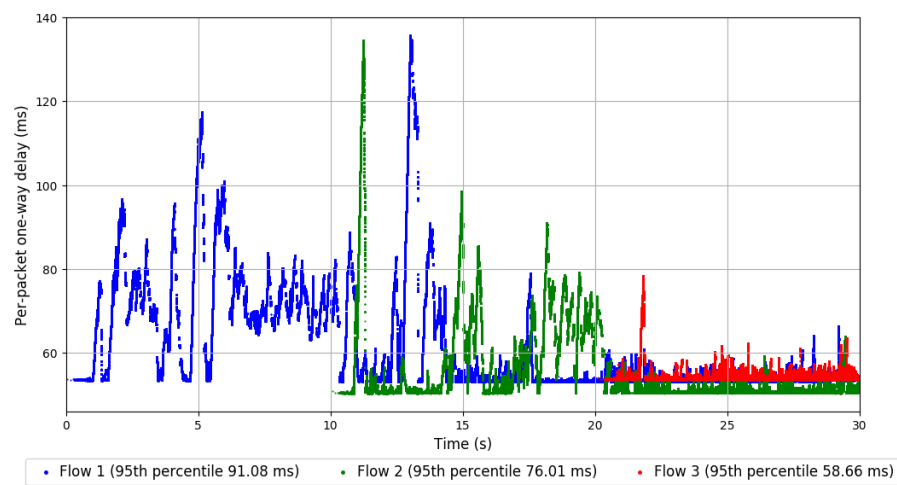
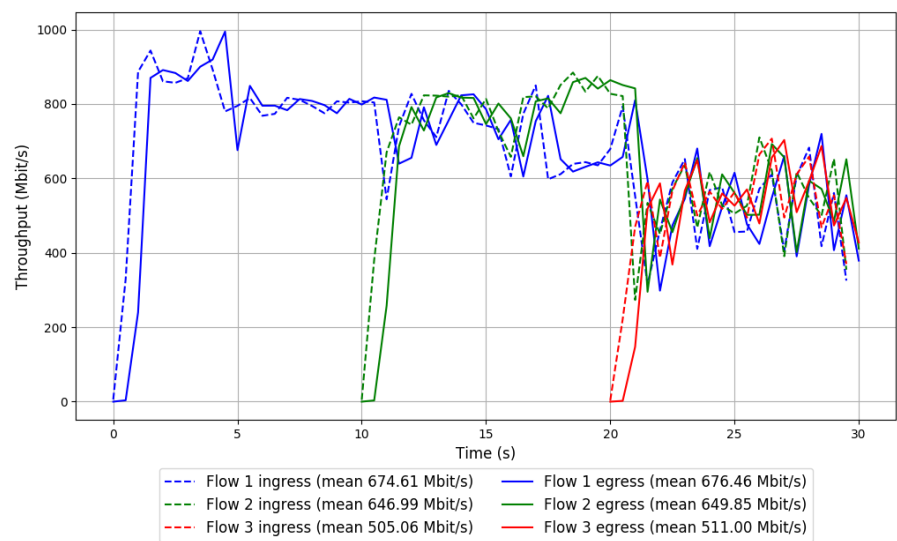


Run 10: Statistics of FillP-Sheep

Start at: 2018-08-03 14:33:54  
End at: 2018-08-03 14:34:24  
Local clock offset: 0.072 ms  
Remote clock offset: -0.181 ms

# Below is generated by plot.py at 2018-08-03 16:54:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1276.43 Mbit/s  
95th percentile per-packet one-way delay: 84.457 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 676.46 Mbit/s  
95th percentile per-packet one-way delay: 91.081 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 649.85 Mbit/s  
95th percentile per-packet one-way delay: 76.009 ms  
Loss rate: 0.06%  
-- Flow 3:  
Average throughput: 511.00 Mbit/s  
95th percentile per-packet one-way delay: 58.656 ms  
Loss rate: 0.00%

Run 10: Report of FillP-Sheep — Data Link

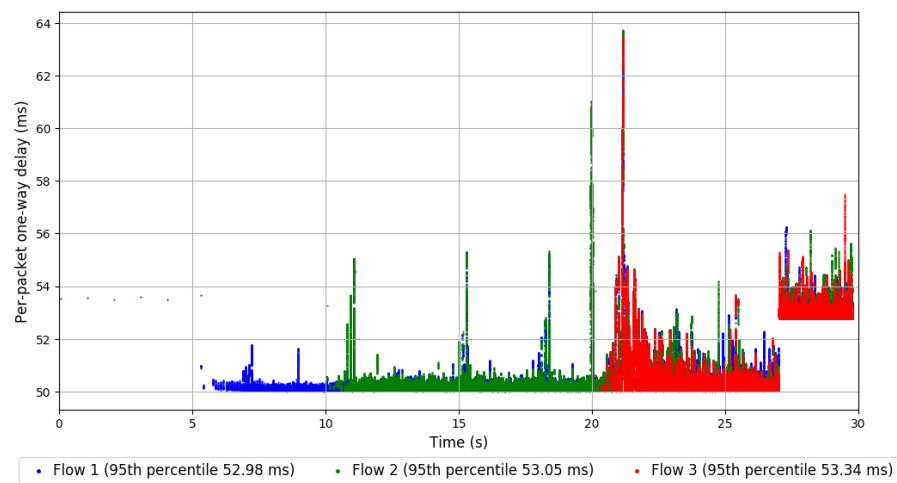
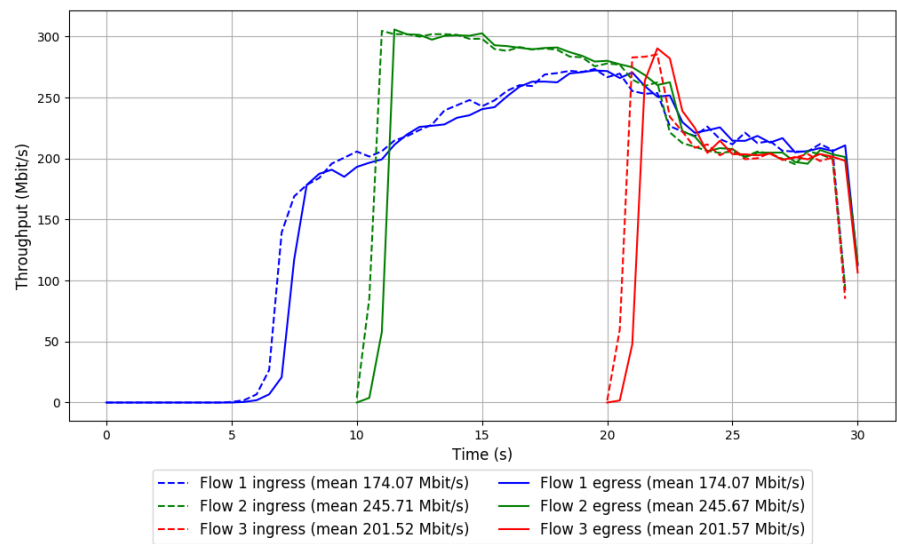


```
Run 1: Statistics of Indigo

Start at: 2018-08-03 11:01:26
End at: 2018-08-03 11:01:56
Local clock offset: 0.239 ms
Remote clock offset: -0.05 ms

# Below is generated by plot.py at 2018-08-03 16:54:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 402.54 Mbit/s
95th percentile per-packet one-way delay: 53.074 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 174.07 Mbit/s
95th percentile per-packet one-way delay: 52.981 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 245.67 Mbit/s
95th percentile per-packet one-way delay: 53.046 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 201.57 Mbit/s
95th percentile per-packet one-way delay: 53.336 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link

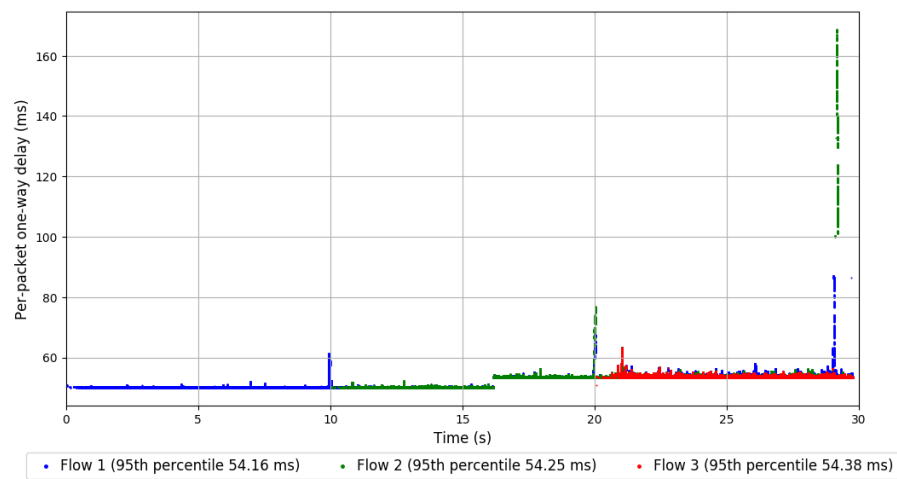
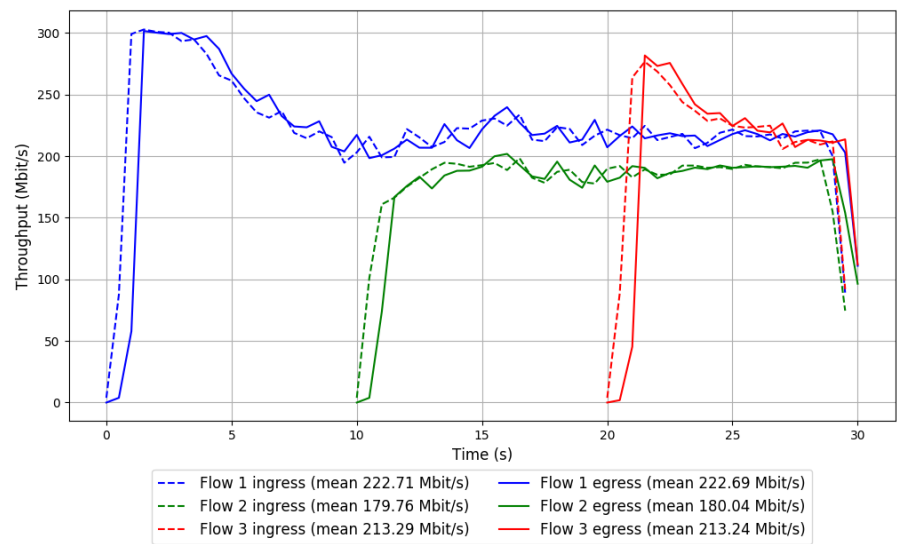


Run 2: Statistics of Indigo

Start at: 2018-08-03 11:26:57  
End at: 2018-08-03 11:27:27  
Local clock offset: 0.226 ms  
Remote clock offset: -0.095 ms

# Below is generated by plot.py at 2018-08-03 16:54:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 411.59 Mbit/s  
95th percentile per-packet one-way delay: 54.240 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 222.69 Mbit/s  
95th percentile per-packet one-way delay: 54.161 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 180.04 Mbit/s  
95th percentile per-packet one-way delay: 54.246 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 213.24 Mbit/s  
95th percentile per-packet one-way delay: 54.376 ms  
Loss rate: 0.00%

Run 2: Report of Indigo — Data Link

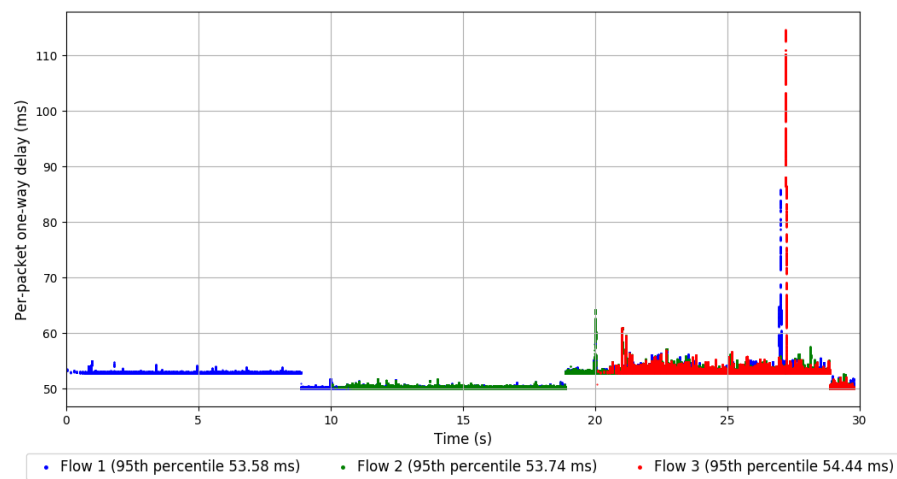
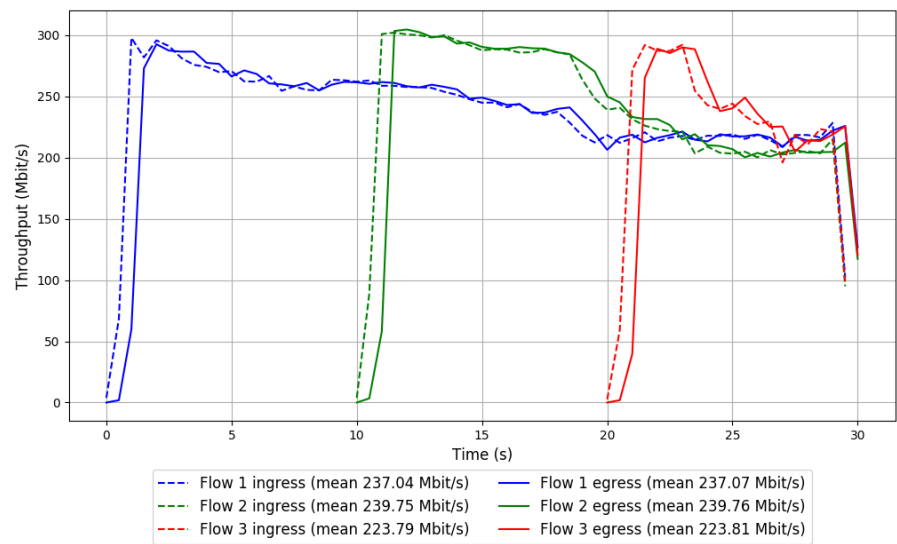


Run 3: Statistics of Indigo

Start at: 2018-08-03 11:52:14  
End at: 2018-08-03 11:52:44  
Local clock offset: 0.028 ms  
Remote clock offset: -0.272 ms

# Below is generated by plot.py at 2018-08-03 16:54:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 469.01 Mbit/s  
95th percentile per-packet one-way delay: 53.823 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 237.07 Mbit/s  
95th percentile per-packet one-way delay: 53.579 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 239.76 Mbit/s  
95th percentile per-packet one-way delay: 53.743 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 223.81 Mbit/s  
95th percentile per-packet one-way delay: 54.440 ms  
Loss rate: 0.00%

Run 3: Report of Indigo — Data Link

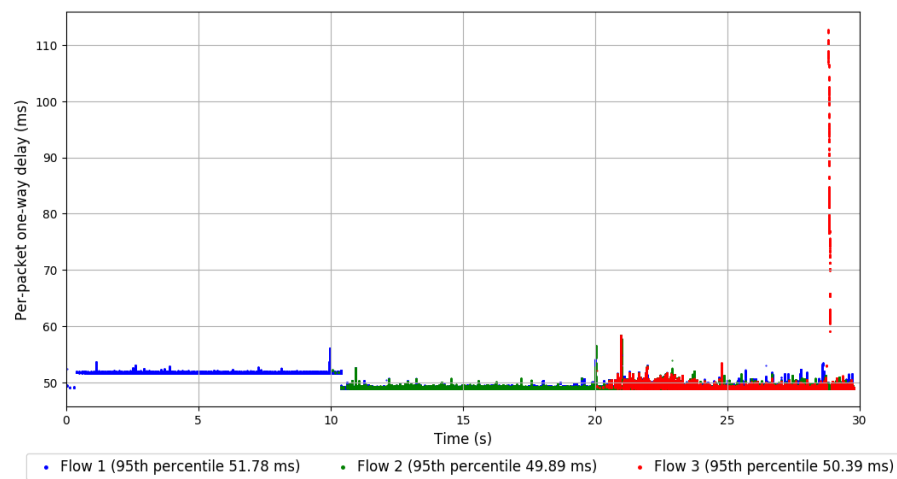
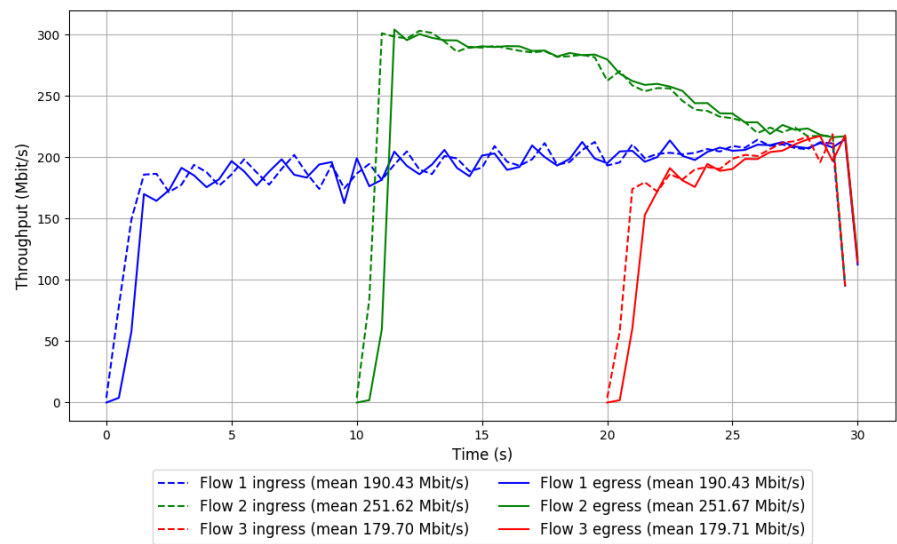


Run 4: Statistics of Indigo

Start at: 2018-08-03 12:17:33  
End at: 2018-08-03 12:18:03  
Local clock offset: -0.094 ms  
Remote clock offset: -1.519 ms

# Below is generated by plot.py at 2018-08-03 16:54:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 416.01 Mbit/s  
95th percentile per-packet one-way delay: 51.755 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 190.43 Mbit/s  
95th percentile per-packet one-way delay: 51.779 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 251.67 Mbit/s  
95th percentile per-packet one-way delay: 49.892 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 179.71 Mbit/s  
95th percentile per-packet one-way delay: 50.390 ms  
Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-08-03 12:42:36

End at: 2018-08-03 12:43:06

Local clock offset: 0.076 ms

Remote clock offset: -0.24 ms

# Below is generated by plot.py at 2018-08-03 16:54:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 437.69 Mbit/s

95th percentile per-packet one-way delay: 53.748 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 227.46 Mbit/s

95th percentile per-packet one-way delay: 53.473 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 229.90 Mbit/s

95th percentile per-packet one-way delay: 53.601 ms

Loss rate: 0.00%

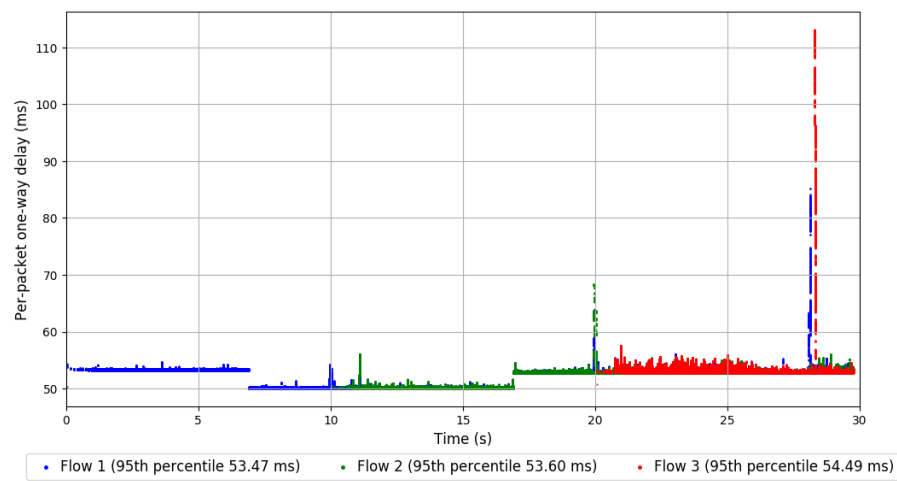
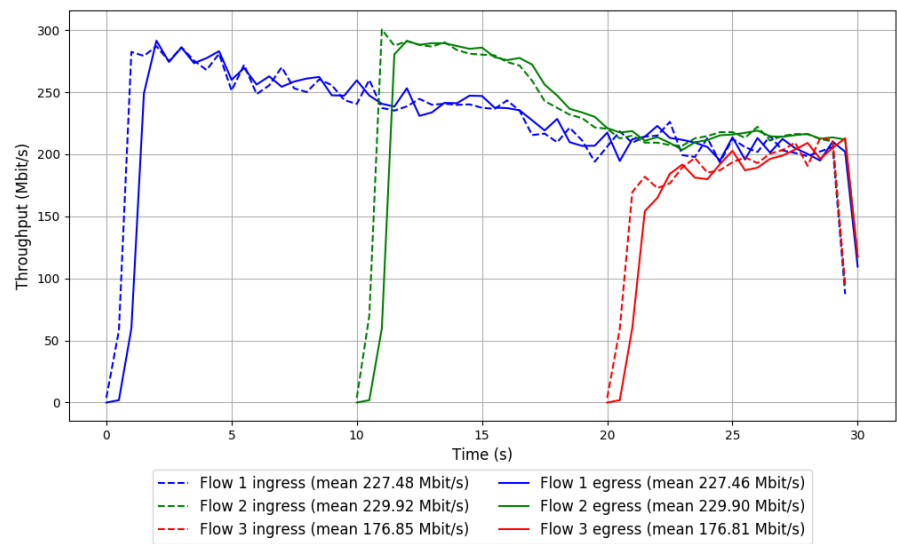
-- Flow 3:

Average throughput: 176.81 Mbit/s

95th percentile per-packet one-way delay: 54.489 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link

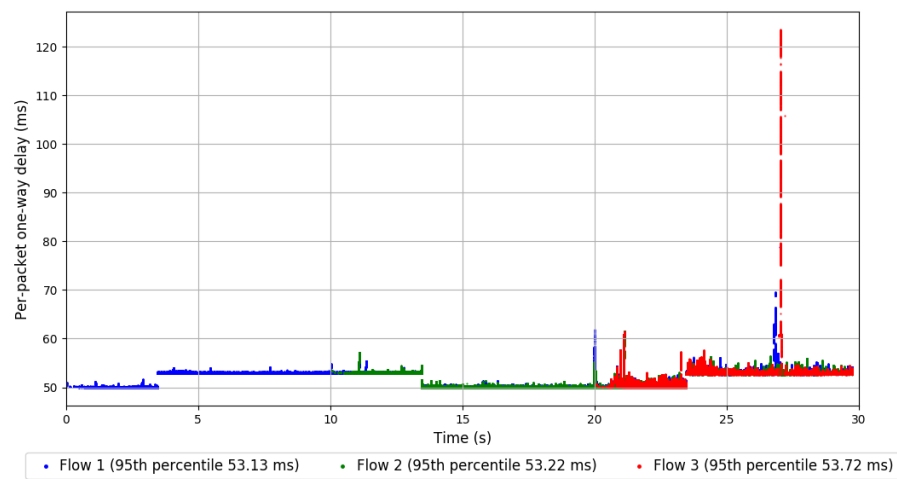
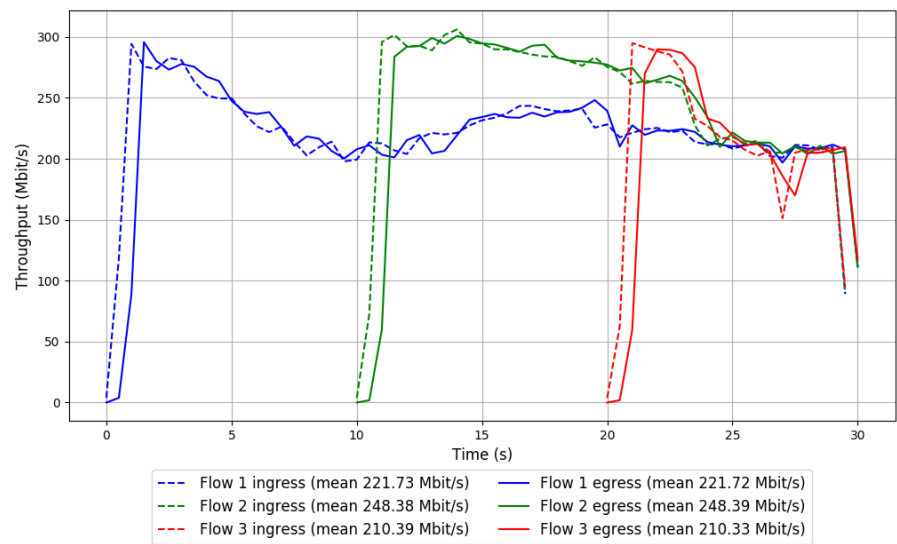


Run 6: Statistics of Indigo

Start at: 2018-08-03 13:08:00  
End at: 2018-08-03 13:08:30  
Local clock offset: 0.089 ms  
Remote clock offset: -0.362 ms

# Below is generated by plot.py at 2018-08-03 16:54:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 455.12 Mbit/s  
95th percentile per-packet one-way delay: 53.244 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 221.72 Mbit/s  
95th percentile per-packet one-way delay: 53.133 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 248.39 Mbit/s  
95th percentile per-packet one-way delay: 53.221 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 210.33 Mbit/s  
95th percentile per-packet one-way delay: 53.718 ms  
Loss rate: 0.01%

Run 6: Report of Indigo — Data Link

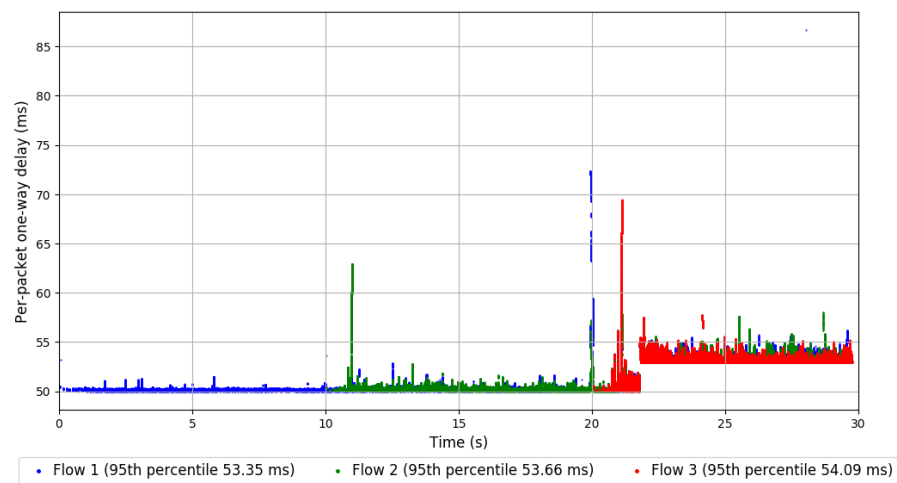
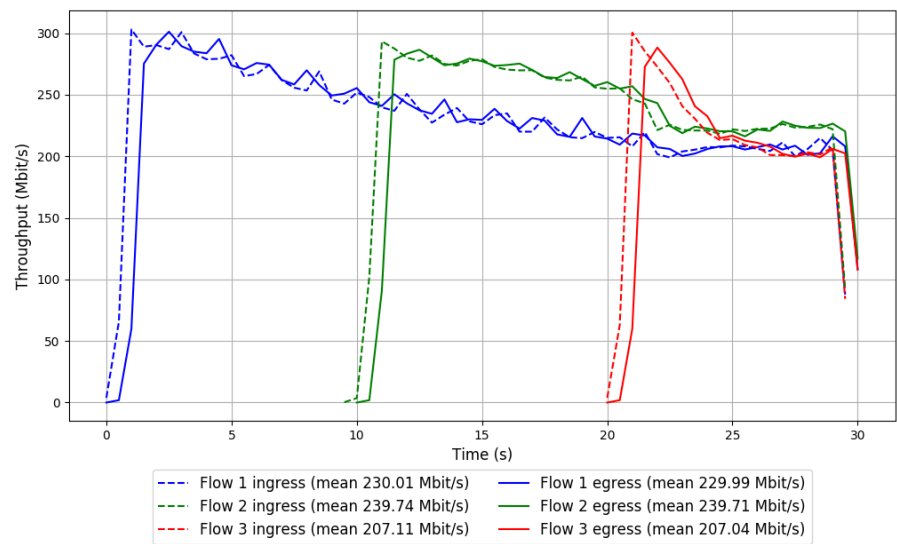


Run 7: Statistics of Indigo

Start at: 2018-08-03 13:33:11  
End at: 2018-08-03 13:33:41  
Local clock offset: 0.128 ms  
Remote clock offset: -0.269 ms

# Below is generated by plot.py at 2018-08-03 16:54:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 456.66 Mbit/s  
95th percentile per-packet one-way delay: 53.611 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 229.99 Mbit/s  
95th percentile per-packet one-way delay: 53.351 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 239.71 Mbit/s  
95th percentile per-packet one-way delay: 53.655 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 207.04 Mbit/s  
95th percentile per-packet one-way delay: 54.095 ms  
Loss rate: 0.00%

Run 7: Report of Indigo — Data Link

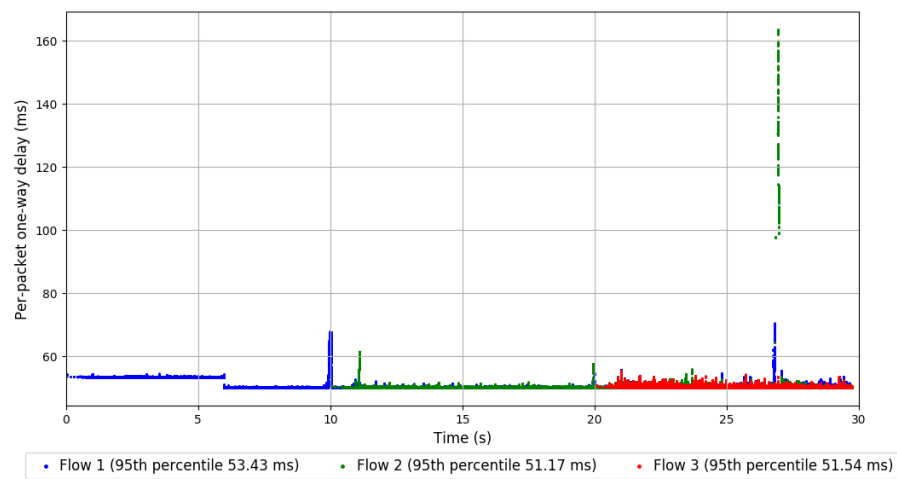
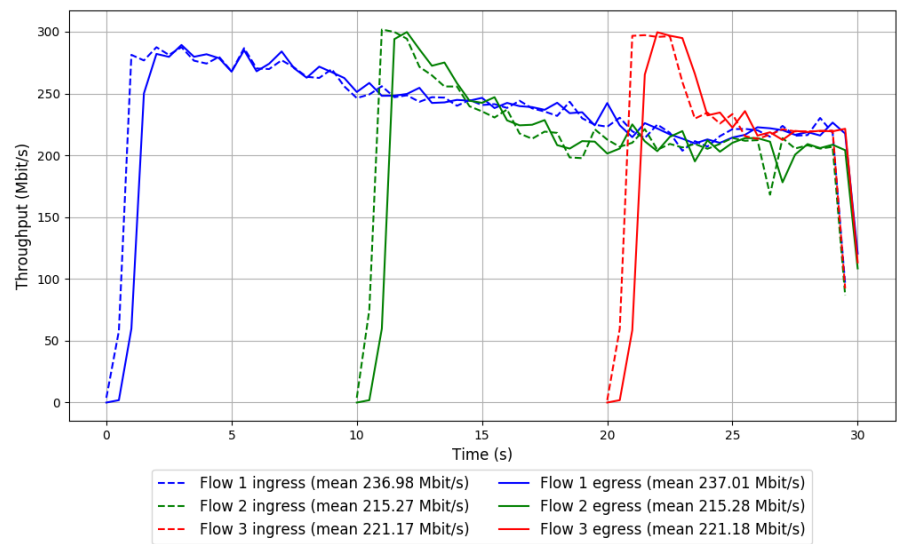


Run 8: Statistics of Indigo

Start at: 2018-08-03 13:58:17  
End at: 2018-08-03 13:58:47  
Local clock offset: 0.188 ms  
Remote clock offset: -0.188 ms

# Below is generated by plot.py at 2018-08-03 16:54:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 451.50 Mbit/s  
95th percentile per-packet one-way delay: 53.400 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 237.01 Mbit/s  
95th percentile per-packet one-way delay: 53.426 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 215.28 Mbit/s  
95th percentile per-packet one-way delay: 51.173 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 221.18 Mbit/s  
95th percentile per-packet one-way delay: 51.540 ms  
Loss rate: 0.00%

Run 8: Report of Indigo — Data Link

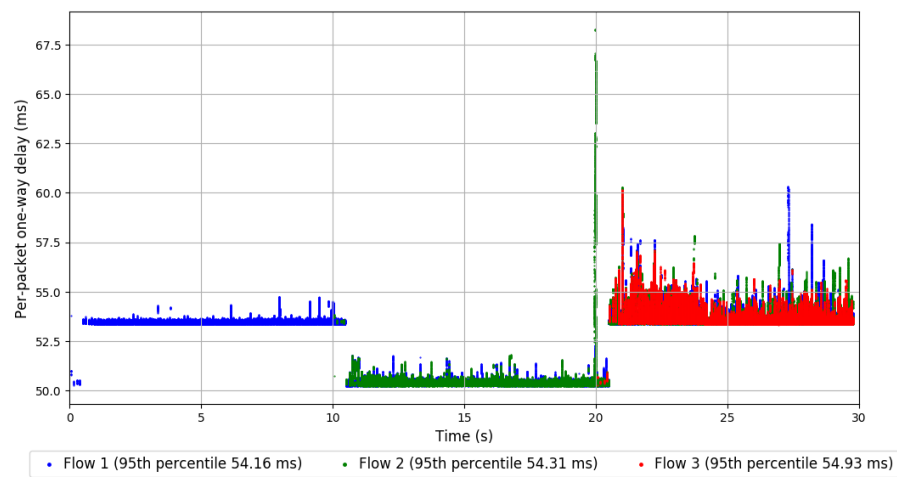
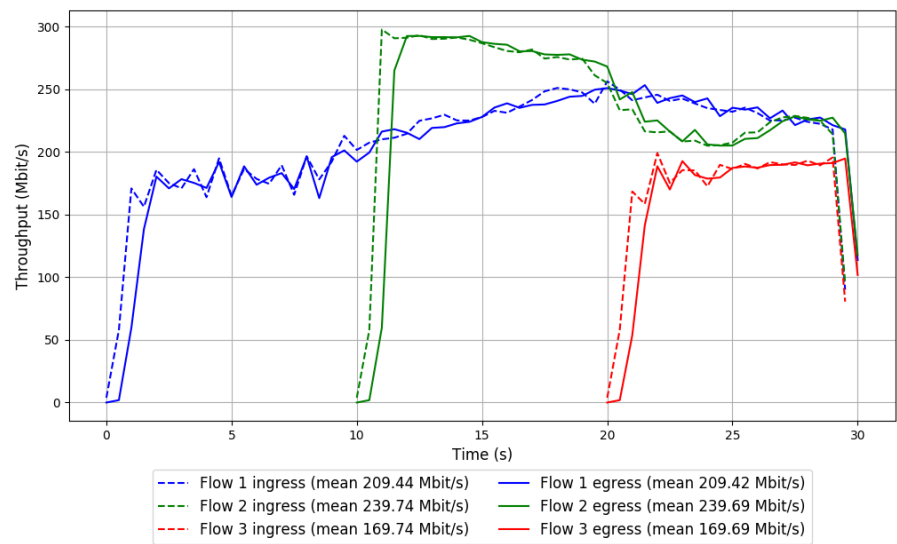


Run 9: Statistics of Indigo

Start at: 2018-08-03 14:23:43  
End at: 2018-08-03 14:24:13  
Local clock offset: -0.009 ms  
Remote clock offset: -0.213 ms

# Below is generated by plot.py at 2018-08-03 16:54:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 423.73 Mbit/s  
95th percentile per-packet one-way delay: 54.374 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 209.42 Mbit/s  
95th percentile per-packet one-way delay: 54.162 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 239.69 Mbit/s  
95th percentile per-packet one-way delay: 54.312 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 169.69 Mbit/s  
95th percentile per-packet one-way delay: 54.927 ms  
Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-08-03 14:49:01

End at: 2018-08-03 14:49:31

Local clock offset: 0.089 ms

Remote clock offset: 0.031 ms

# Below is generated by plot.py at 2018-08-03 16:54:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 434.21 Mbit/s

95th percentile per-packet one-way delay: 53.810 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 219.92 Mbit/s

95th percentile per-packet one-way delay: 53.751 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 235.96 Mbit/s

95th percentile per-packet one-way delay: 53.809 ms

Loss rate: 0.00%

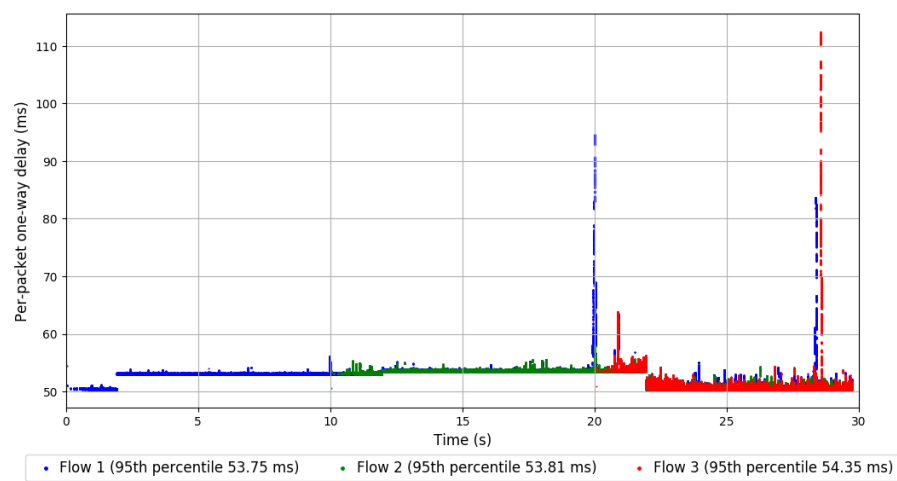
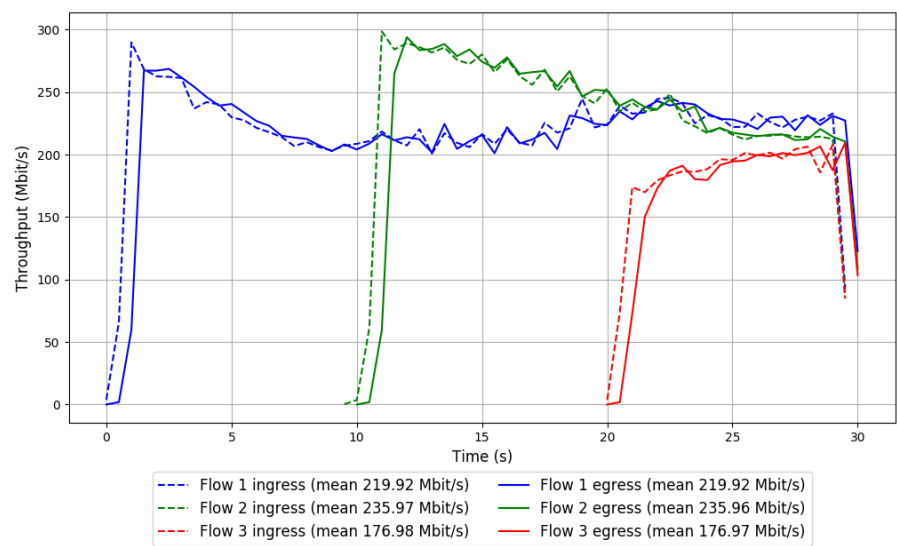
-- Flow 3:

Average throughput: 176.97 Mbit/s

95th percentile per-packet one-way delay: 54.347 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

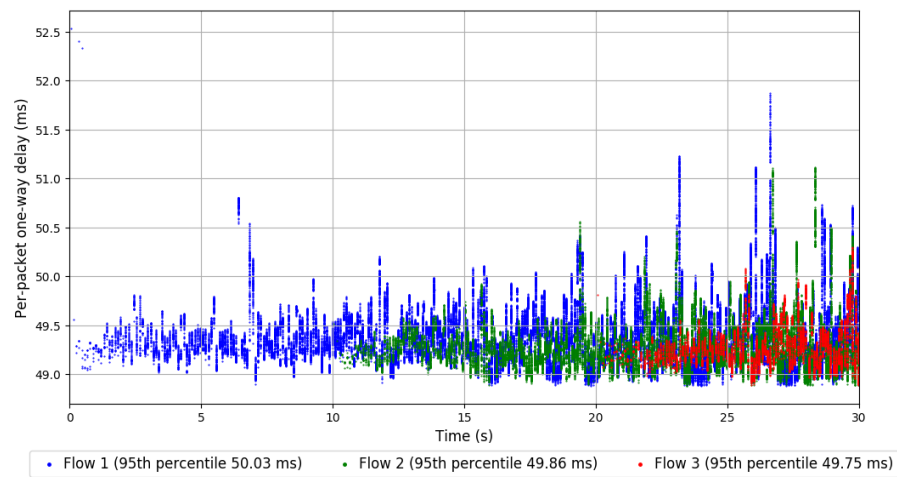
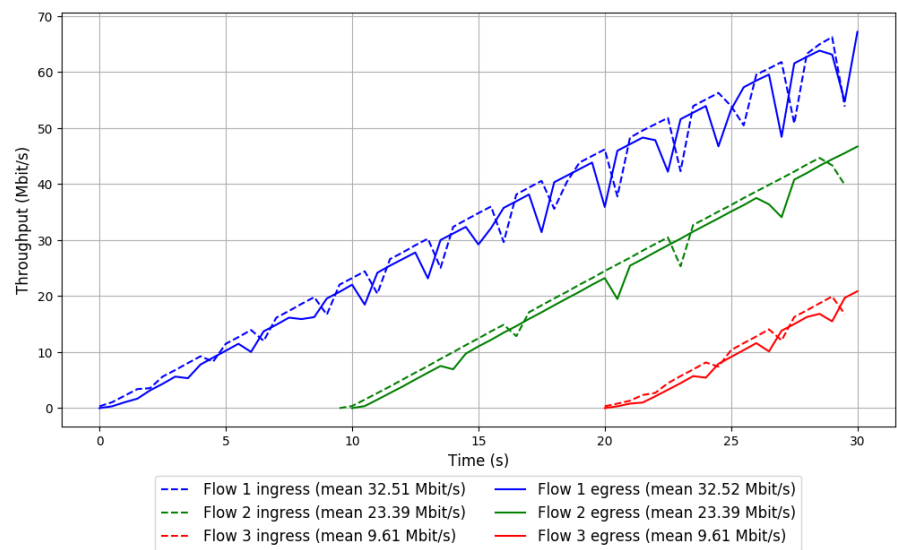


```
Run 1: Statistics of LEDBAT

Start at: 2018-08-03 10:49:49
End at: 2018-08-03 10:50:19
Local clock offset: -0.063 ms
Remote clock offset: -1.495 ms

# Below is generated by plot.py at 2018-08-03 16:54:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 51.25 Mbit/s
95th percentile per-packet one-way delay: 49.974 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 32.52 Mbit/s
95th percentile per-packet one-way delay: 50.030 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 23.39 Mbit/s
95th percentile per-packet one-way delay: 49.857 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 9.61 Mbit/s
95th percentile per-packet one-way delay: 49.748 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

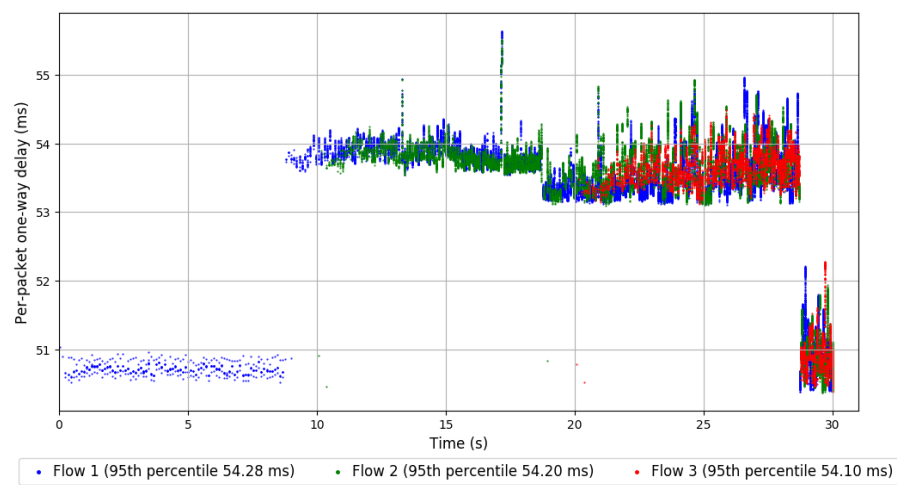
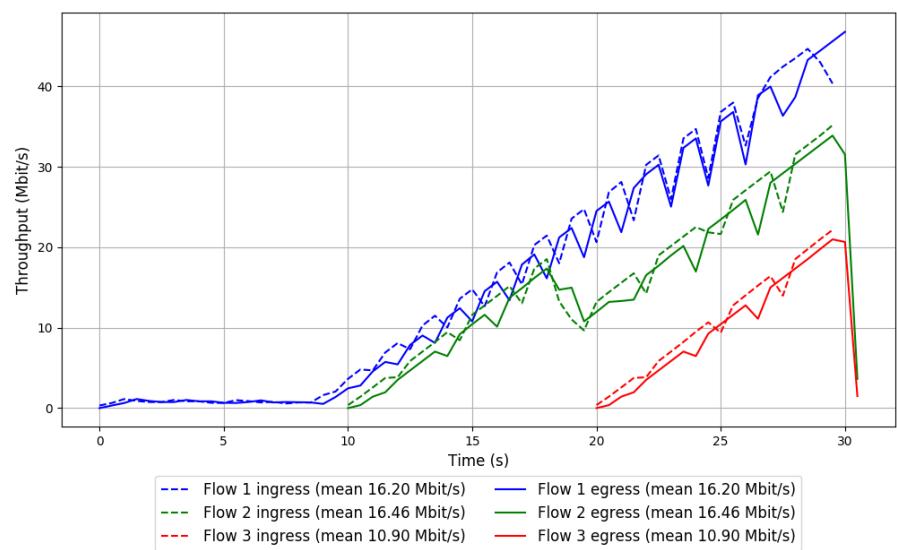


```
Run 2: Statistics of LEDBAT

Start at: 2018-08-03 11:15:14
End at: 2018-08-03 11:15:44
Local clock offset: -0.017 ms
Remote clock offset: 0.034 ms

# Below is generated by plot.py at 2018-08-03 16:54:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 30.75 Mbit/s
95th percentile per-packet one-way delay: 54.218 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 16.20 Mbit/s
95th percentile per-packet one-way delay: 54.280 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 16.46 Mbit/s
95th percentile per-packet one-way delay: 54.202 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 10.90 Mbit/s
95th percentile per-packet one-way delay: 54.099 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-08-03 11:40:52

End at: 2018-08-03 11:41:22

Local clock offset: -0.018 ms

Remote clock offset: 1.073 ms

# Below is generated by plot.py at 2018-08-03 16:54:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 48.10 Mbit/s

95th percentile per-packet one-way delay: 55.742 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 31.21 Mbit/s

95th percentile per-packet one-way delay: 55.793 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 20.45 Mbit/s

95th percentile per-packet one-way delay: 55.618 ms

Loss rate: 0.00%

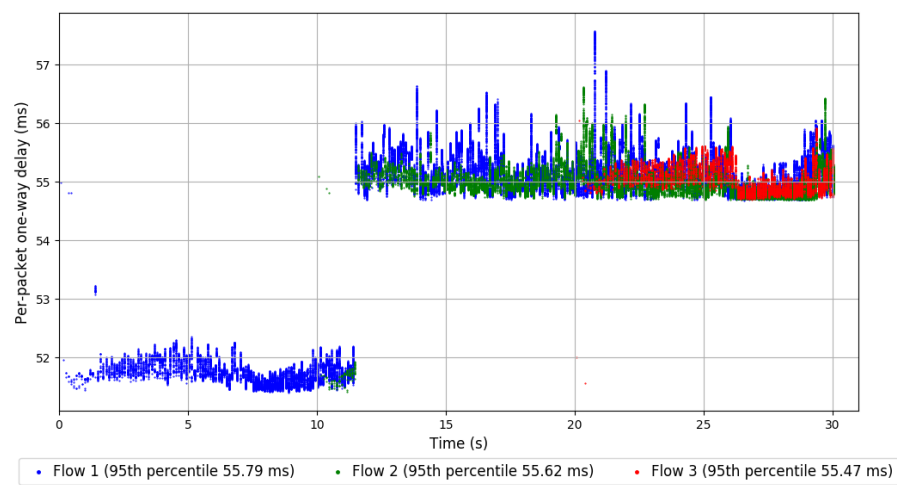
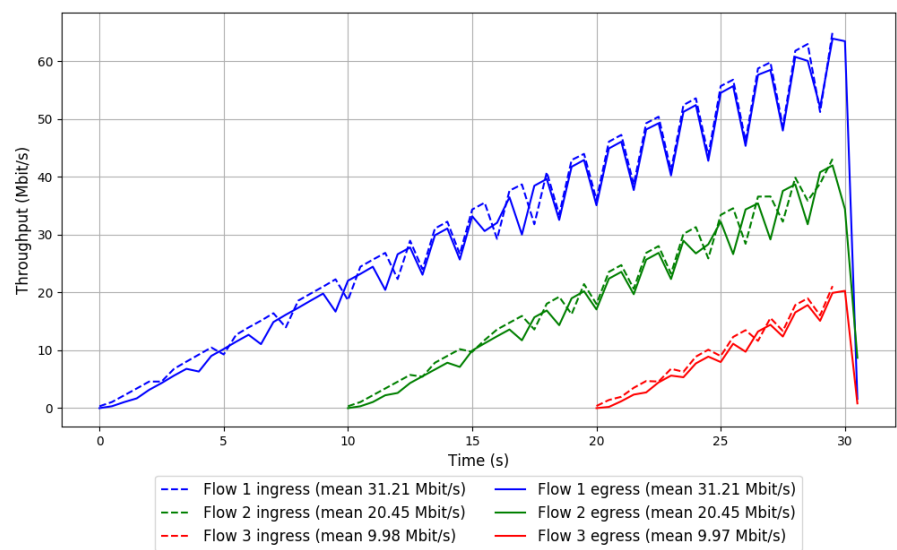
-- Flow 3:

Average throughput: 9.97 Mbit/s

95th percentile per-packet one-way delay: 55.472 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link

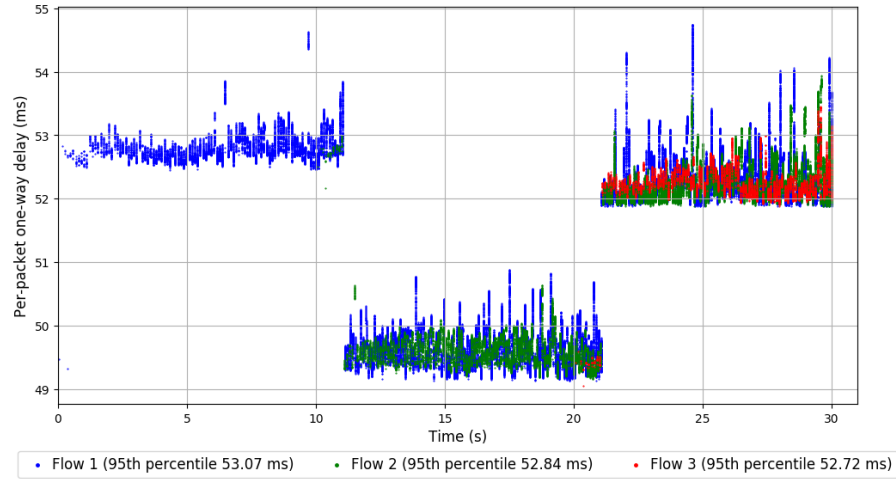
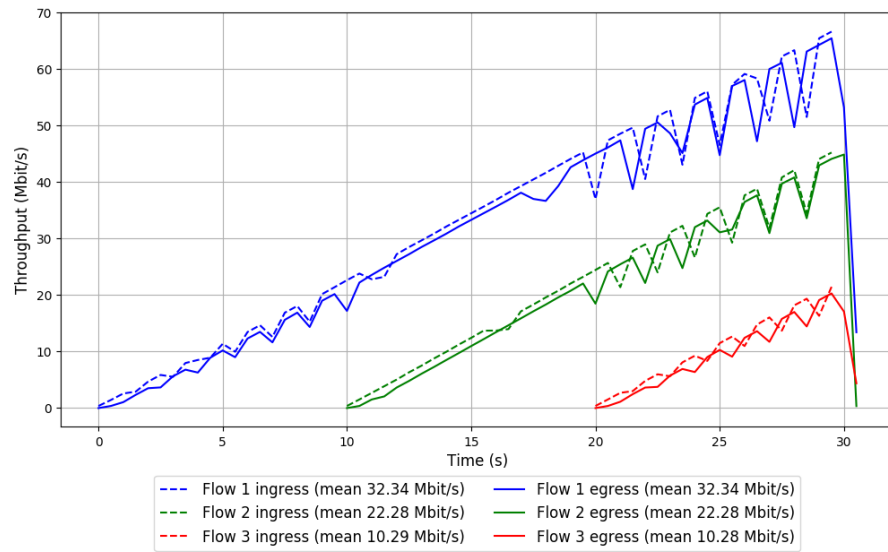


Run 4: Statistics of LEDBAT

Start at: 2018-08-03 12:06:02  
End at: 2018-08-03 12:06:32  
Local clock offset: -0.202 ms  
Remote clock offset: -1.373 ms

# Below is generated by plot.py at 2018-08-03 16:54:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 50.58 Mbit/s  
95th percentile per-packet one-way delay: 53.003 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 32.34 Mbit/s  
95th percentile per-packet one-way delay: 53.069 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 22.28 Mbit/s  
95th percentile per-packet one-way delay: 52.841 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 10.28 Mbit/s  
95th percentile per-packet one-way delay: 52.720 ms  
Loss rate: 0.00%

#### Run 4: Report of LEDBAT — Data Link

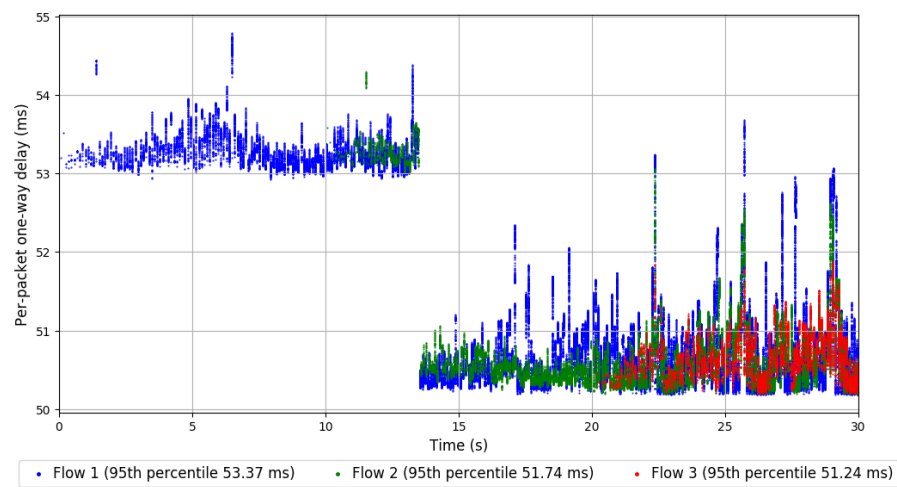
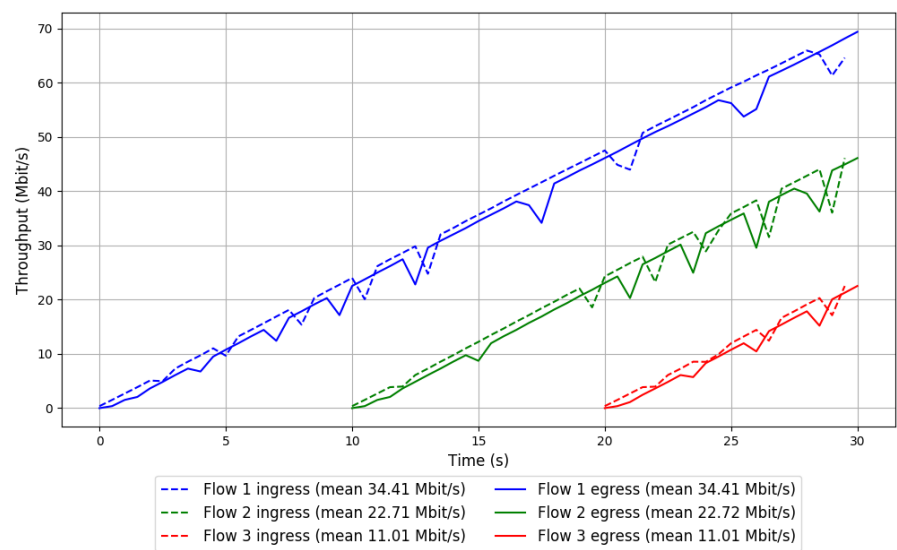


Run 5: Statistics of LEDBAT

Start at: 2018-08-03 12:31:20  
End at: 2018-08-03 12:31:50  
Local clock offset: 0.062 ms  
Remote clock offset: -0.089 ms

# Below is generated by plot.py at 2018-08-03 16:54:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 53.16 Mbit/s  
95th percentile per-packet one-way delay: 53.285 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 34.41 Mbit/s  
95th percentile per-packet one-way delay: 53.368 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 22.72 Mbit/s  
95th percentile per-packet one-way delay: 51.738 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 11.01 Mbit/s  
95th percentile per-packet one-way delay: 51.245 ms  
Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link

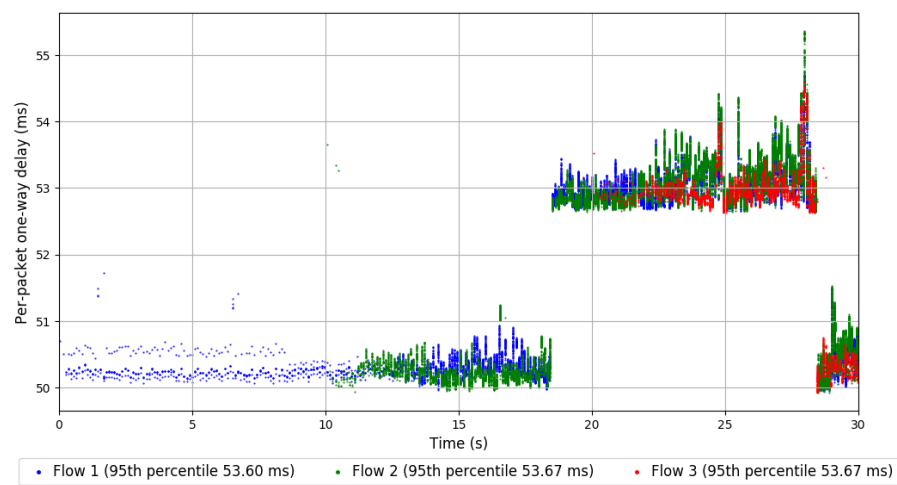
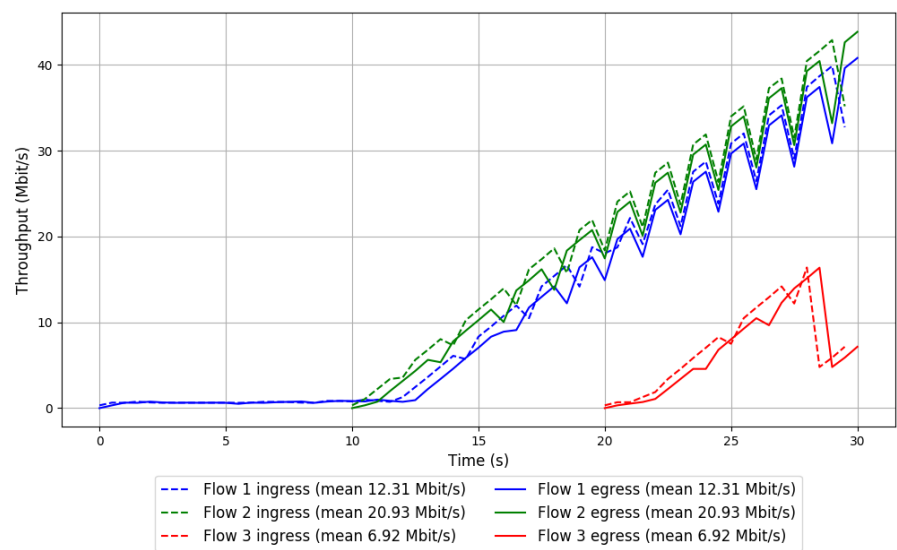


Run 6: Statistics of LEDBAT

Start at: 2018-08-03 12:56:25  
End at: 2018-08-03 12:56:55  
Local clock offset: -0.078 ms  
Remote clock offset: -0.522 ms

# Below is generated by plot.py at 2018-08-03 16:54:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 28.49 Mbit/s  
95th percentile per-packet one-way delay: 53.641 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 12.31 Mbit/s  
95th percentile per-packet one-way delay: 53.596 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 20.93 Mbit/s  
95th percentile per-packet one-way delay: 53.674 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 6.92 Mbit/s  
95th percentile per-packet one-way delay: 53.671 ms  
Loss rate: 0.02%

Run 6: Report of LEDBAT — Data Link

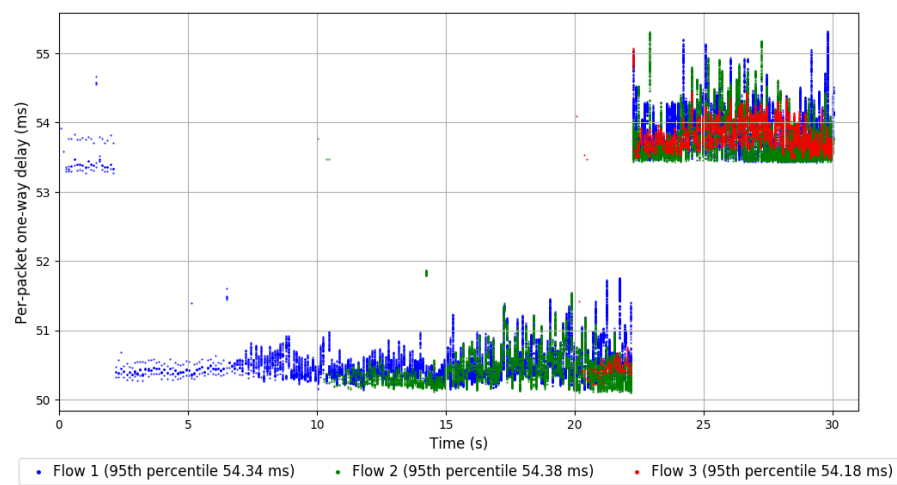
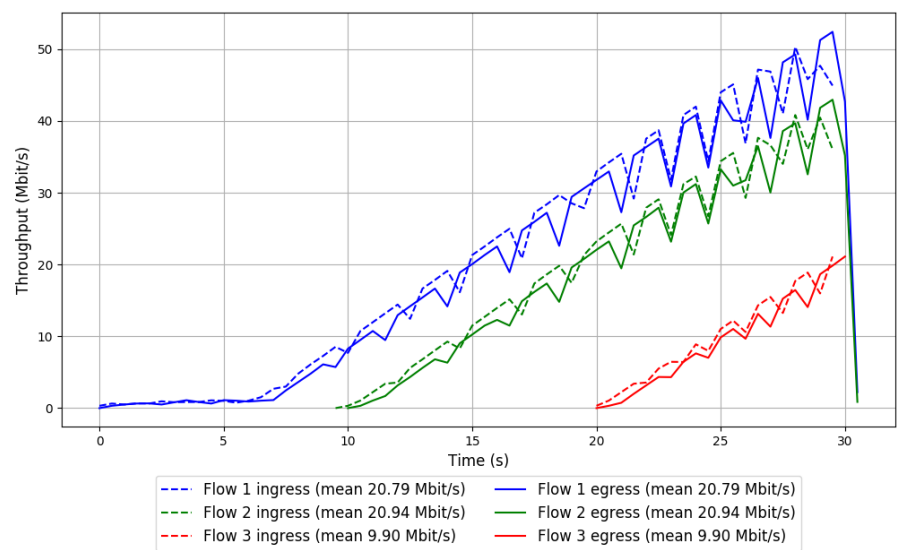


Run 7: Statistics of LEDBAT

Start at: 2018-08-03 13:21:51  
End at: 2018-08-03 13:22:21  
Local clock offset: 0.023 ms  
Remote clock offset: -0.215 ms

# Below is generated by plot.py at 2018-08-03 16:54:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 38.02 Mbit/s  
95th percentile per-packet one-way delay: 54.336 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 20.79 Mbit/s  
95th percentile per-packet one-way delay: 54.340 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 20.94 Mbit/s  
95th percentile per-packet one-way delay: 54.377 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 9.90 Mbit/s  
95th percentile per-packet one-way delay: 54.178 ms  
Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link

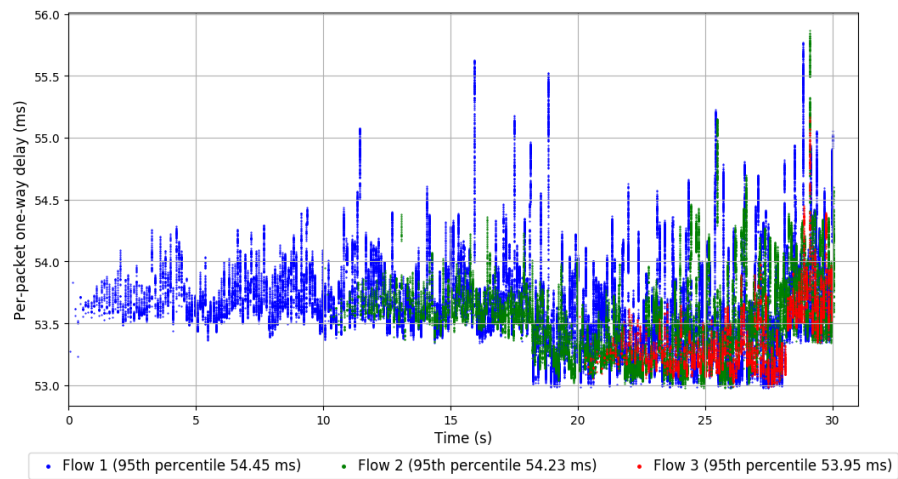
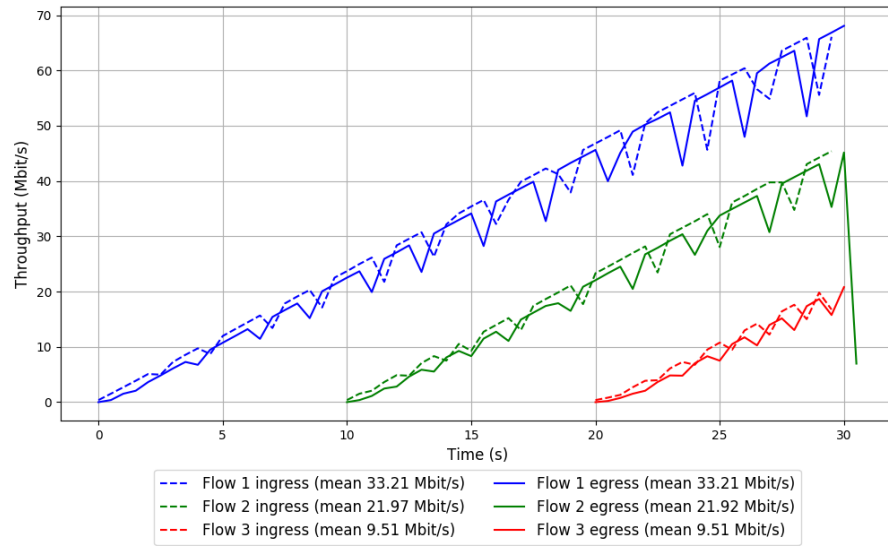


Run 8: Statistics of LEDBAT

Start at: 2018-08-03 13:47:15  
End at: 2018-08-03 13:47:45  
Local clock offset: 0.227 ms  
Remote clock offset: -0.121 ms

# Below is generated by plot.py at 2018-08-03 16:54:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 50.89 Mbit/s  
95th percentile per-packet one-way delay: 54.339 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 33.21 Mbit/s  
95th percentile per-packet one-way delay: 54.449 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 21.92 Mbit/s  
95th percentile per-packet one-way delay: 54.234 ms  
Loss rate: 0.25%  
-- Flow 3:  
Average throughput: 9.51 Mbit/s  
95th percentile per-packet one-way delay: 53.952 ms  
Loss rate: 0.00%

## Run 8: Report of LEDBAT — Data Link

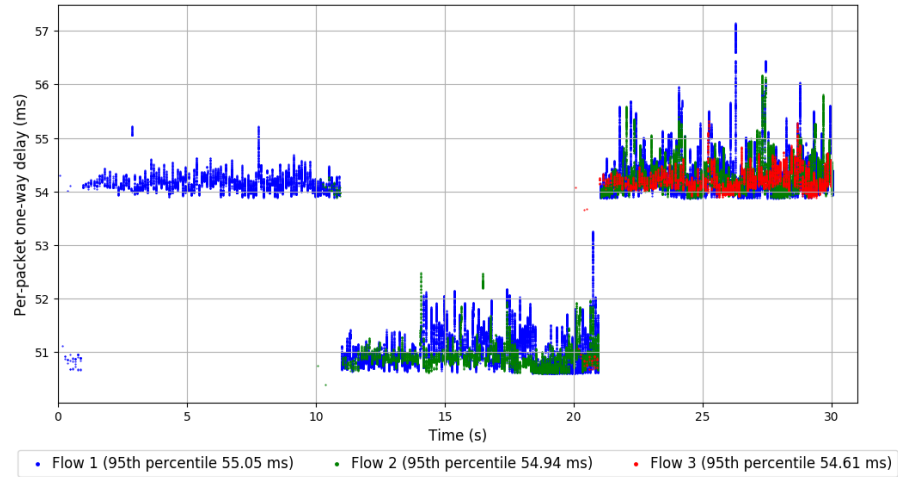
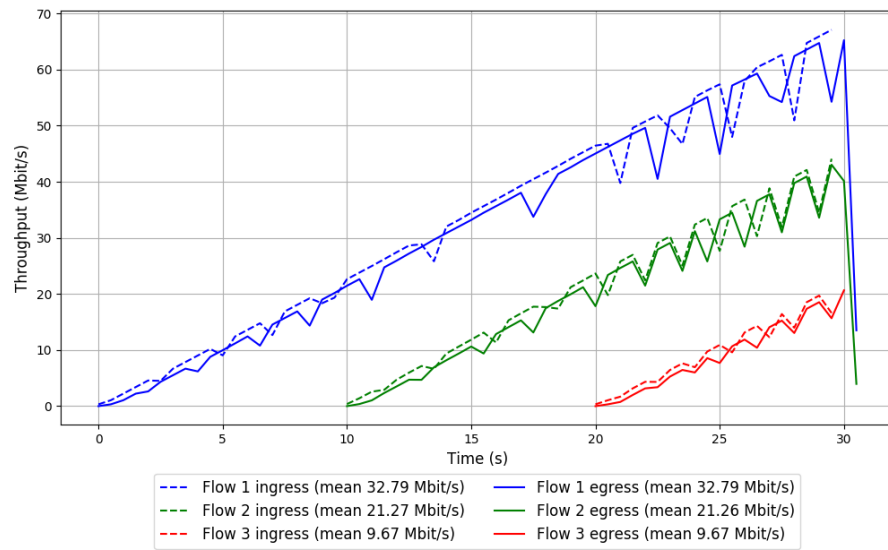


Run 9: Statistics of LEDBAT

Start at: 2018-08-03 14:12:02  
End at: 2018-08-03 14:12:32  
Local clock offset: -0.174 ms  
Remote clock offset: -0.008 ms

# Below is generated by plot.py at 2018-08-03 16:54:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 50.12 Mbit/s  
95th percentile per-packet one-way delay: 54.984 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 32.79 Mbit/s  
95th percentile per-packet one-way delay: 55.054 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 21.26 Mbit/s  
95th percentile per-packet one-way delay: 54.936 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 9.67 Mbit/s  
95th percentile per-packet one-way delay: 54.608 ms  
Loss rate: 0.00%

## Run 9: Report of LEDBAT — Data Link

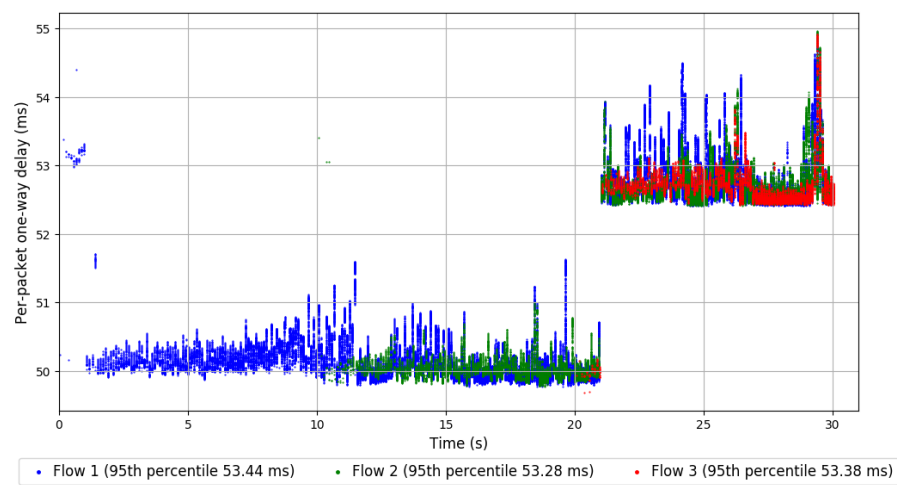
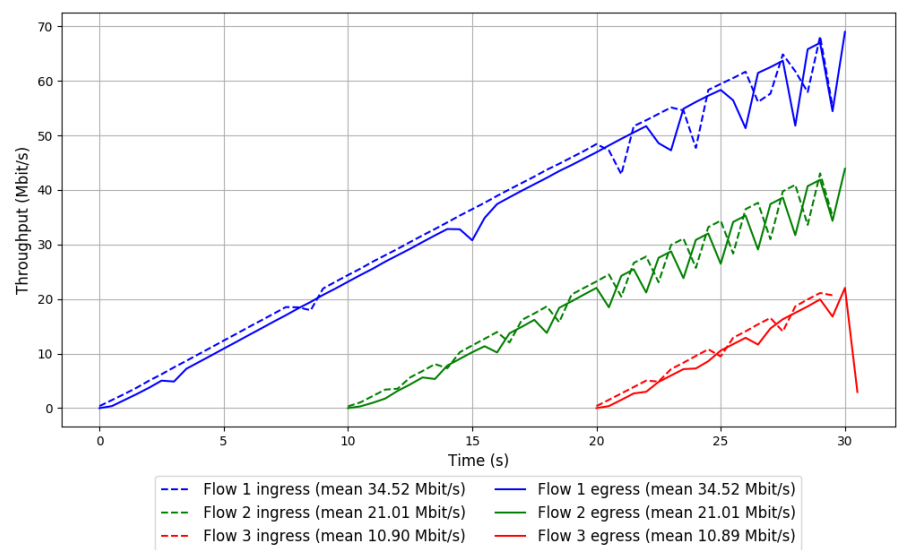


Run 10: Statistics of LEDBAT

Start at: 2018-08-03 14:37:32  
End at: 2018-08-03 14:38:02  
Local clock offset: 0.212 ms  
Remote clock offset: -0.428 ms

# Below is generated by plot.py at 2018-08-03 16:54:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 51.98 Mbit/s  
95th percentile per-packet one-way delay: 53.404 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 34.52 Mbit/s  
95th percentile per-packet one-way delay: 53.442 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 21.01 Mbit/s  
95th percentile per-packet one-way delay: 53.283 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 10.89 Mbit/s  
95th percentile per-packet one-way delay: 53.385 ms  
Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

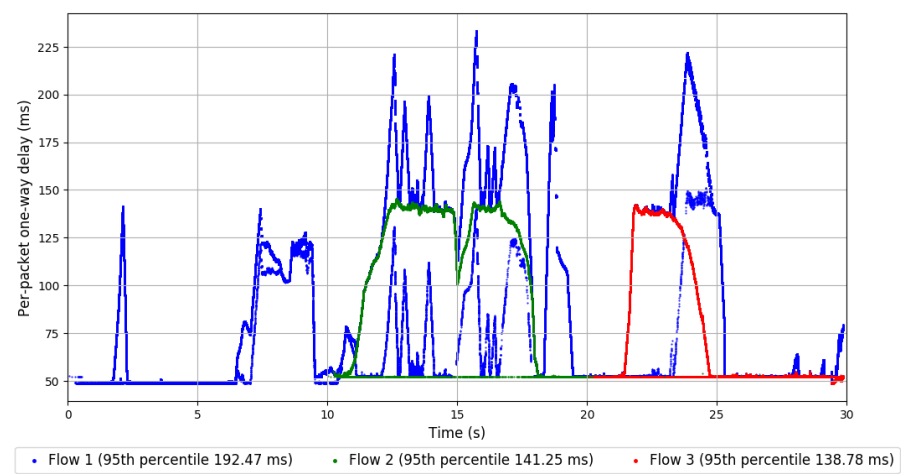
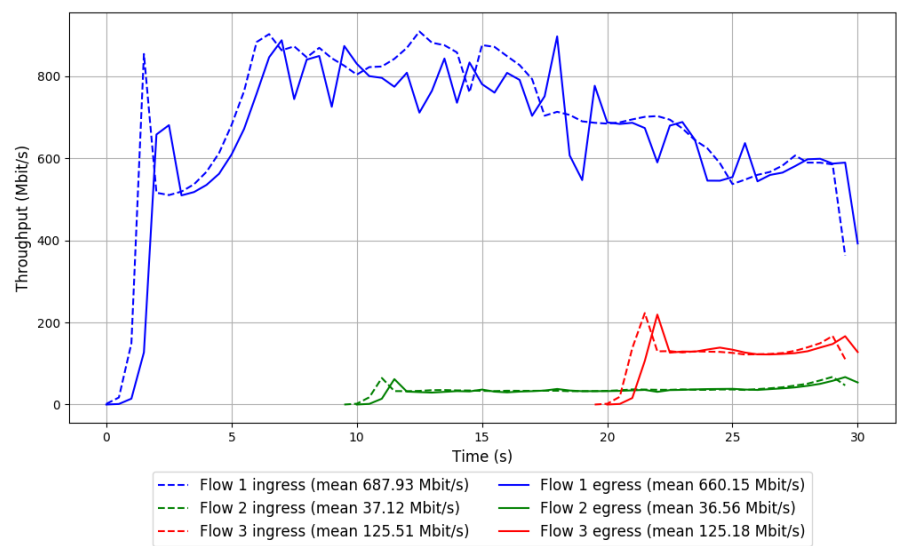


Run 1: Statistics of PCC-Allegro

Start at: 2018-08-03 10:41:24  
End at: 2018-08-03 10:41:54  
Local clock offset: 0.024 ms  
Remote clock offset: -1.543 ms

# Below is generated by plot.py at 2018-08-03 16:59:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 725.82 Mbit/s  
95th percentile per-packet one-way delay: 189.869 ms  
Loss rate: 3.75%  
-- Flow 1:  
Average throughput: 660.15 Mbit/s  
95th percentile per-packet one-way delay: 192.467 ms  
Loss rate: 4.04%  
-- Flow 2:  
Average throughput: 36.56 Mbit/s  
95th percentile per-packet one-way delay: 141.253 ms  
Loss rate: 1.51%  
-- Flow 3:  
Average throughput: 125.18 Mbit/s  
95th percentile per-packet one-way delay: 138.782 ms  
Loss rate: 0.28%

Run 1: Report of PCC-Allegro — Data Link

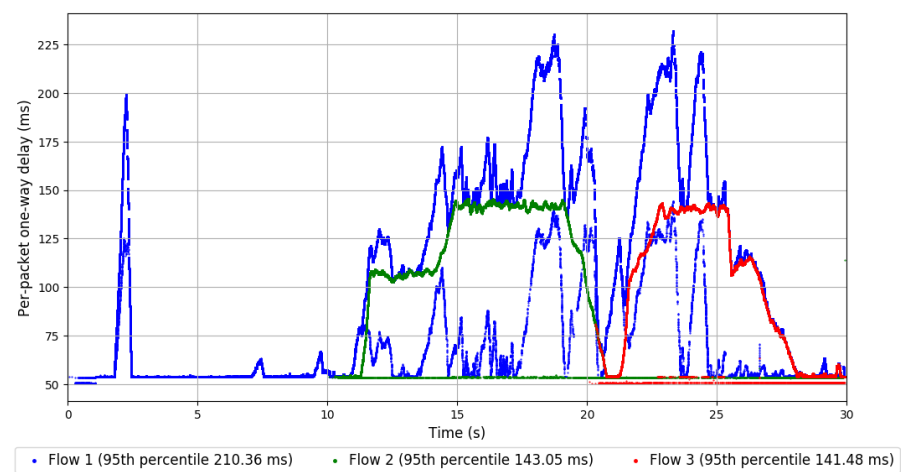
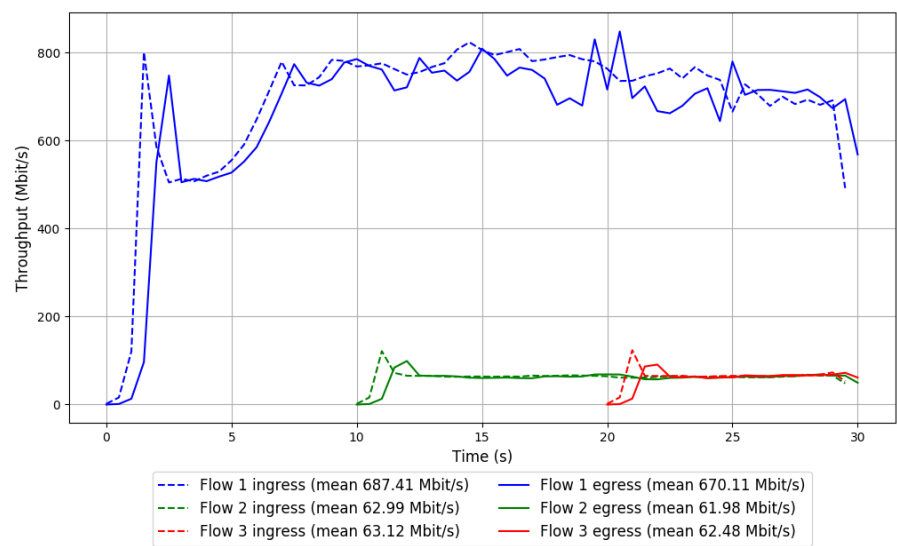


Run 2: Statistics of PCC-Allegro

Start at: 2018-08-03 11:06:52  
End at: 2018-08-03 11:07:22  
Local clock offset: -0.235 ms  
Remote clock offset: -0.139 ms

# Below is generated by plot.py at 2018-08-03 17:00:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 731.60 Mbit/s  
95th percentile per-packet one-way delay: 209.455 ms  
Loss rate: 2.42%  
-- Flow 1:  
Average throughput: 670.11 Mbit/s  
95th percentile per-packet one-way delay: 210.359 ms  
Loss rate: 2.52%  
-- Flow 2:  
Average throughput: 61.98 Mbit/s  
95th percentile per-packet one-way delay: 143.047 ms  
Loss rate: 1.54%  
-- Flow 3:  
Average throughput: 62.48 Mbit/s  
95th percentile per-packet one-way delay: 141.478 ms  
Loss rate: 0.99%

Run 2: Report of PCC-Allegro — Data Link

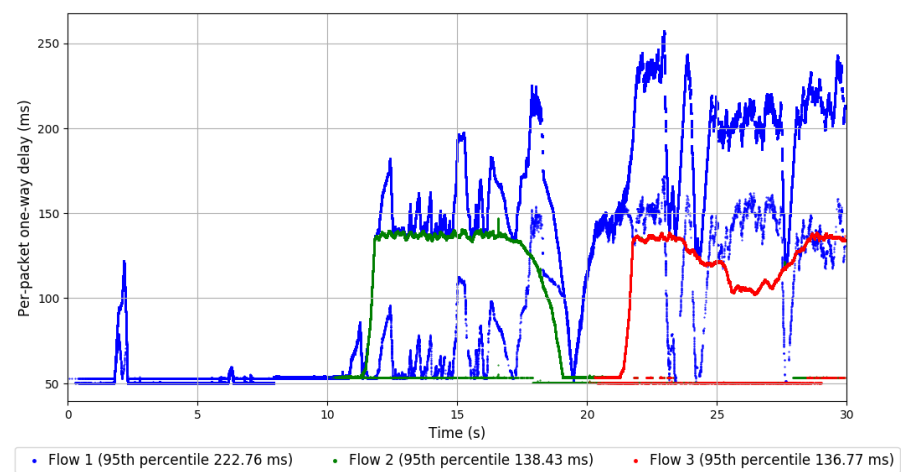
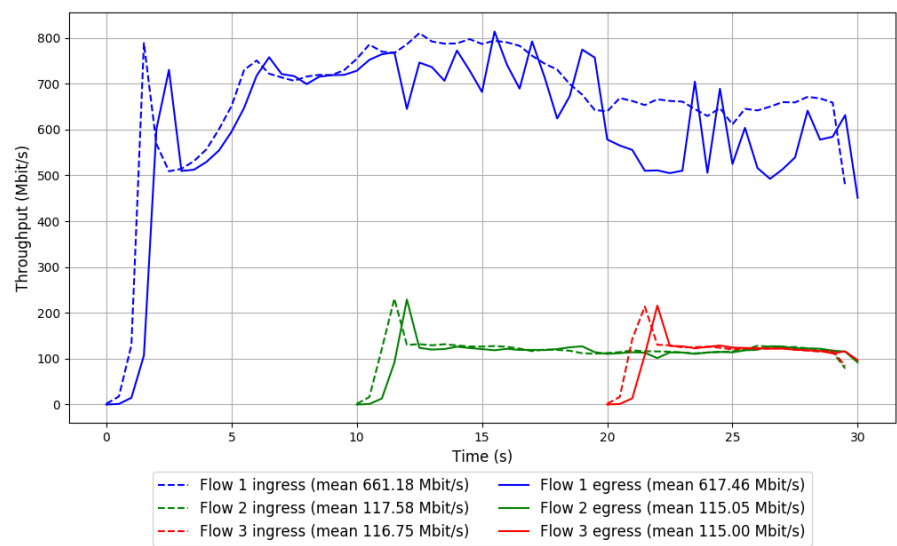


Run 3: Statistics of PCC-Allegro

Start at: 2018-08-03 11:32:15  
End at: 2018-08-03 11:32:45  
Local clock offset: 0.142 ms  
Remote clock offset: -0.236 ms

# Below is generated by plot.py at 2018-08-03 17:00:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 731.81 Mbit/s  
95th percentile per-packet one-way delay: 219.577 ms  
Loss rate: 5.91%  
-- Flow 1:  
Average throughput: 617.46 Mbit/s  
95th percentile per-packet one-way delay: 222.756 ms  
Loss rate: 6.61%  
-- Flow 2:  
Average throughput: 115.05 Mbit/s  
95th percentile per-packet one-way delay: 138.429 ms  
Loss rate: 2.15%  
-- Flow 3:  
Average throughput: 115.00 Mbit/s  
95th percentile per-packet one-way delay: 136.774 ms  
Loss rate: 1.45%

Run 3: Report of PCC-Allegro — Data Link

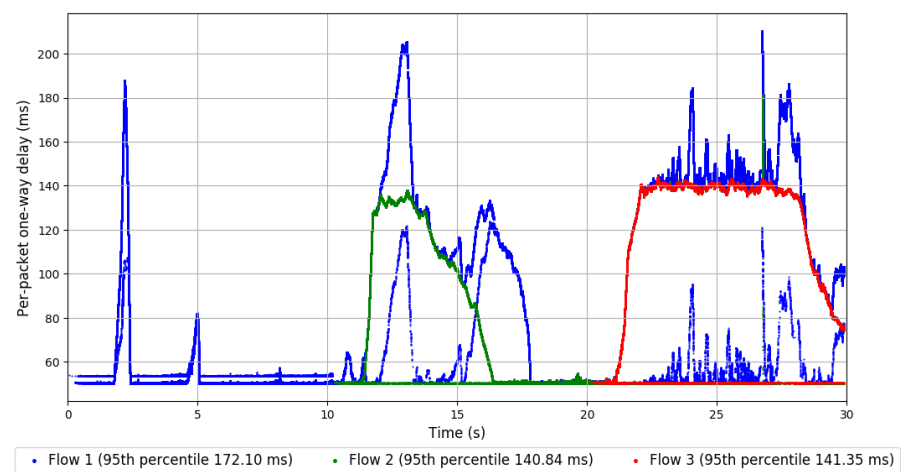
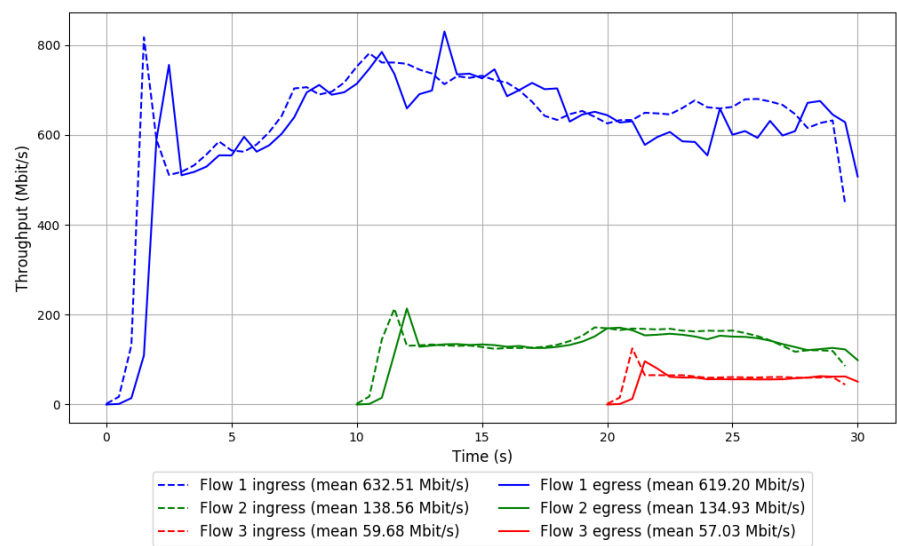


Run 4: Statistics of PCC-Allegro

Start at: 2018-08-03 11:57:34  
End at: 2018-08-03 11:58:04  
Local clock offset: -0.16 ms  
Remote clock offset: -0.219 ms

# Below is generated by plot.py at 2018-08-03 17:01:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 727.70 Mbit/s  
95th percentile per-packet one-way delay: 166.898 ms  
Loss rate: 2.24%  
-- Flow 1:  
Average throughput: 619.20 Mbit/s  
95th percentile per-packet one-way delay: 172.097 ms  
Loss rate: 2.11%  
-- Flow 2:  
Average throughput: 134.93 Mbit/s  
95th percentile per-packet one-way delay: 140.836 ms  
Loss rate: 2.62%  
-- Flow 3:  
Average throughput: 57.03 Mbit/s  
95th percentile per-packet one-way delay: 141.354 ms  
Loss rate: 4.45%

Run 4: Report of PCC-Allegro — Data Link

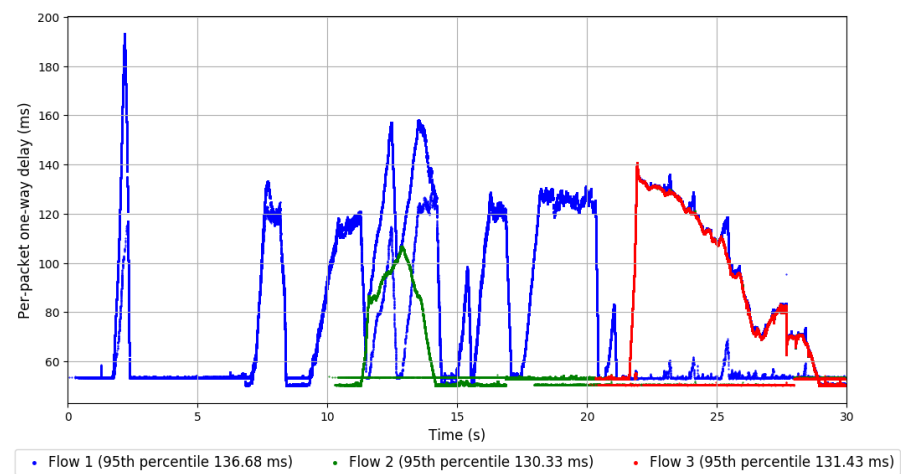
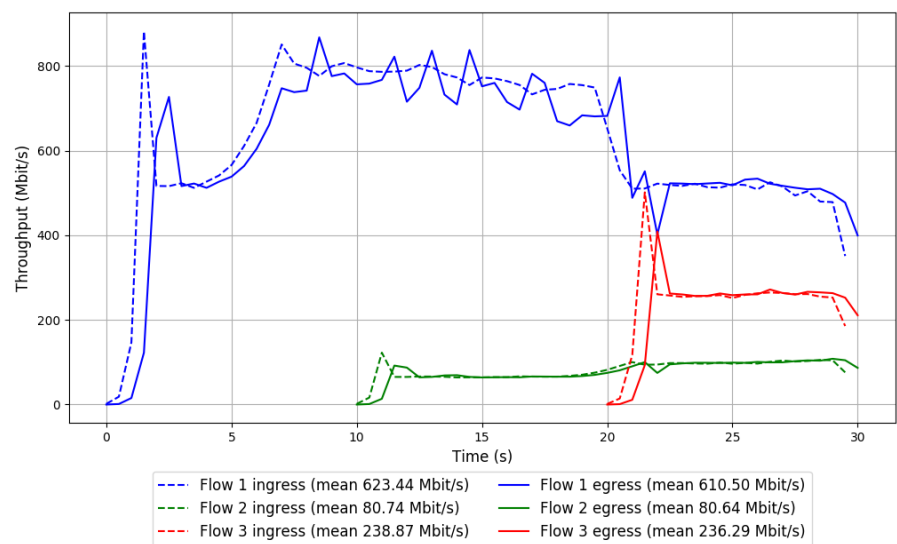


Run 5: Statistics of PCC-Allegro

Start at: 2018-08-03 12:22:56  
End at: 2018-08-03 12:23:26  
Local clock offset: 0.091 ms  
Remote clock offset: -0.011 ms

# Below is generated by plot.py at 2018-08-03 17:01:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 741.86 Mbit/s  
95th percentile per-packet one-way delay: 133.695 ms  
Loss rate: 1.83%  
-- Flow 1:  
Average throughput: 610.50 Mbit/s  
95th percentile per-packet one-way delay: 136.677 ms  
Loss rate: 2.08%  
-- Flow 2:  
Average throughput: 80.64 Mbit/s  
95th percentile per-packet one-way delay: 130.328 ms  
Loss rate: 0.13%  
-- Flow 3:  
Average throughput: 236.29 Mbit/s  
95th percentile per-packet one-way delay: 131.429 ms  
Loss rate: 1.06%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-08-03 12:47:59

End at: 2018-08-03 12:48:29

Local clock offset: -0.013 ms

Remote clock offset: 0.05 ms

# Below is generated by plot.py at 2018-08-03 17:04:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 713.58 Mbit/s

95th percentile per-packet one-way delay: 168.429 ms

Loss rate: 1.41%

-- Flow 1:

Average throughput: 614.30 Mbit/s

95th percentile per-packet one-way delay: 171.347 ms

Loss rate: 1.63%

-- Flow 2:

Average throughput: 132.52 Mbit/s

95th percentile per-packet one-way delay: 115.644 ms

Loss rate: 0.00%

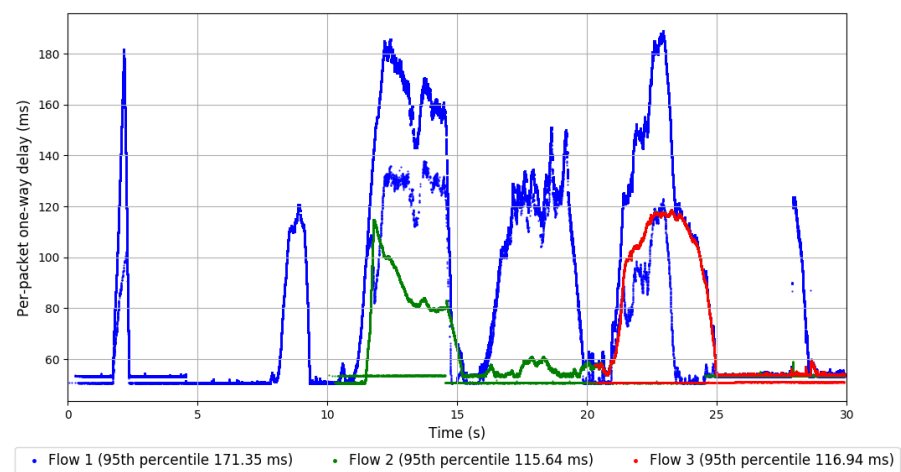
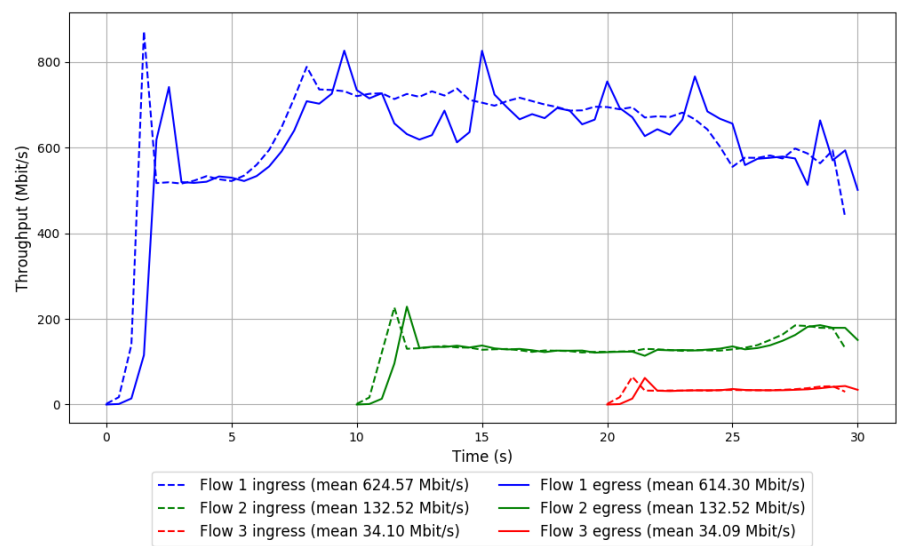
-- Flow 3:

Average throughput: 34.09 Mbit/s

95th percentile per-packet one-way delay: 116.943 ms

Loss rate: 0.00%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-08-03 13:13:24

End at: 2018-08-03 13:13:54

Local clock offset: 0.073 ms

Remote clock offset: 0.041 ms

# Below is generated by plot.py at 2018-08-03 17:05:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 750.68 Mbit/s

95th percentile per-packet one-way delay: 141.368 ms

Loss rate: 2.01%

-- Flow 1:

Average throughput: 591.46 Mbit/s

95th percentile per-packet one-way delay: 144.103 ms

Loss rate: 1.90%

-- Flow 2:

Average throughput: 237.28 Mbit/s

95th percentile per-packet one-way delay: 138.084 ms

Loss rate: 2.42%

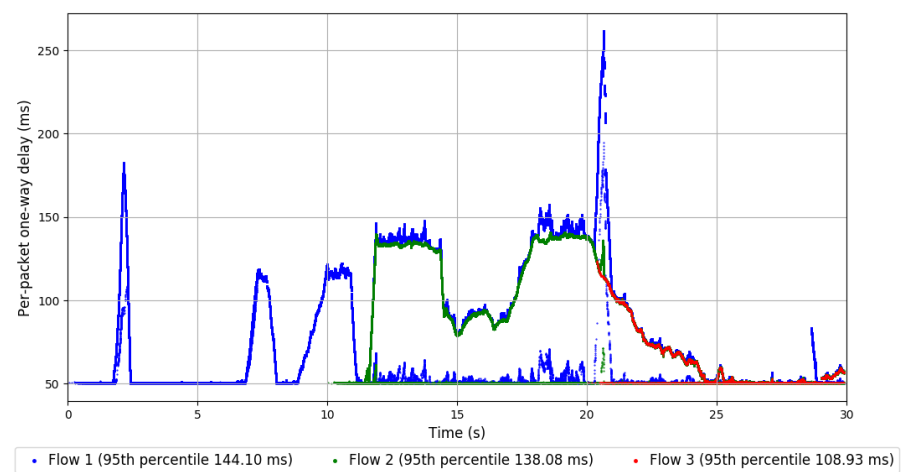
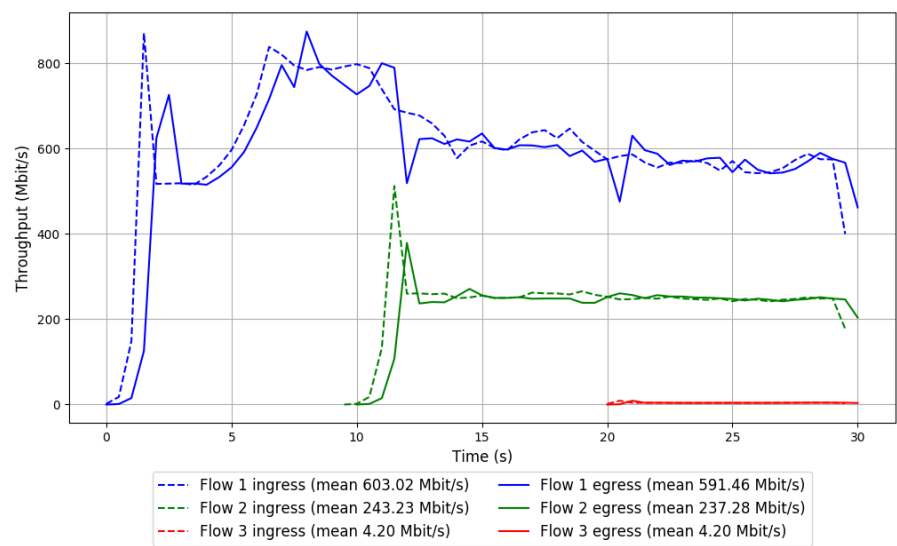
-- Flow 3:

Average throughput: 4.20 Mbit/s

95th percentile per-packet one-way delay: 108.932 ms

Loss rate: 0.03%

Run 7: Report of PCC-Allegro — Data Link

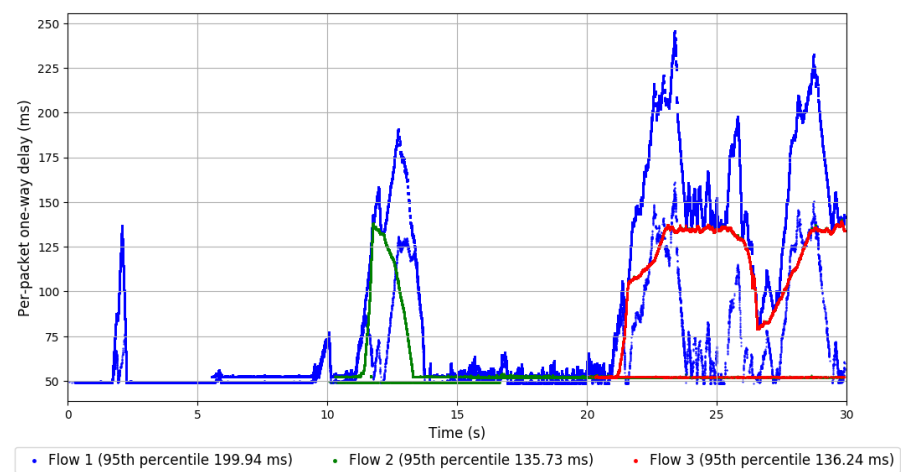
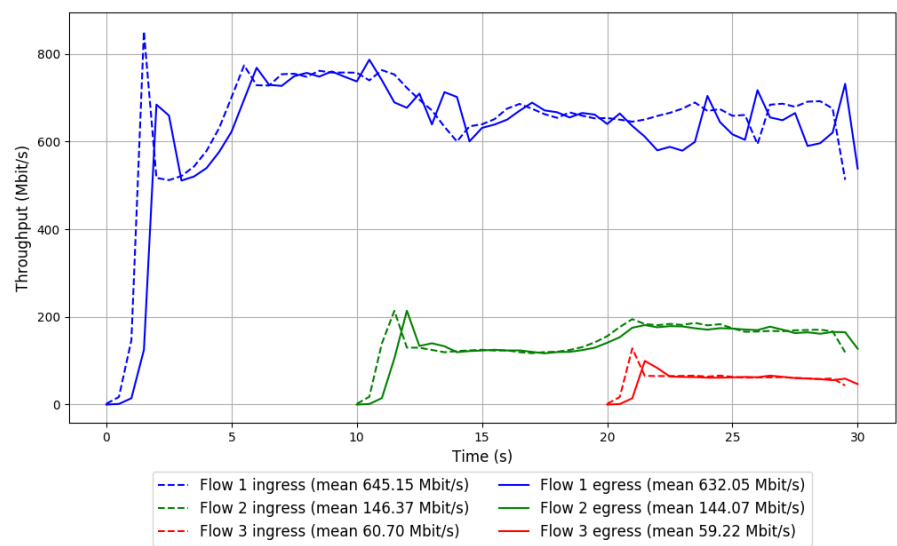


Run 8: Statistics of PCC-Allegro

Start at: 2018-08-03 13:38:38  
End at: 2018-08-03 13:39:08  
Local clock offset: 0.04 ms  
Remote clock offset: -1.466 ms

# Below is generated by plot.py at 2018-08-03 17:06:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 747.33 Mbit/s  
95th percentile per-packet one-way delay: 195.678 ms  
Loss rate: 1.98%  
-- Flow 1:  
Average throughput: 632.05 Mbit/s  
95th percentile per-packet one-way delay: 199.938 ms  
Loss rate: 2.03%  
-- Flow 2:  
Average throughput: 144.07 Mbit/s  
95th percentile per-packet one-way delay: 135.732 ms  
Loss rate: 1.57%  
-- Flow 3:  
Average throughput: 59.22 Mbit/s  
95th percentile per-packet one-way delay: 136.244 ms  
Loss rate: 2.47%

Run 8: Report of PCC-Allegro — Data Link

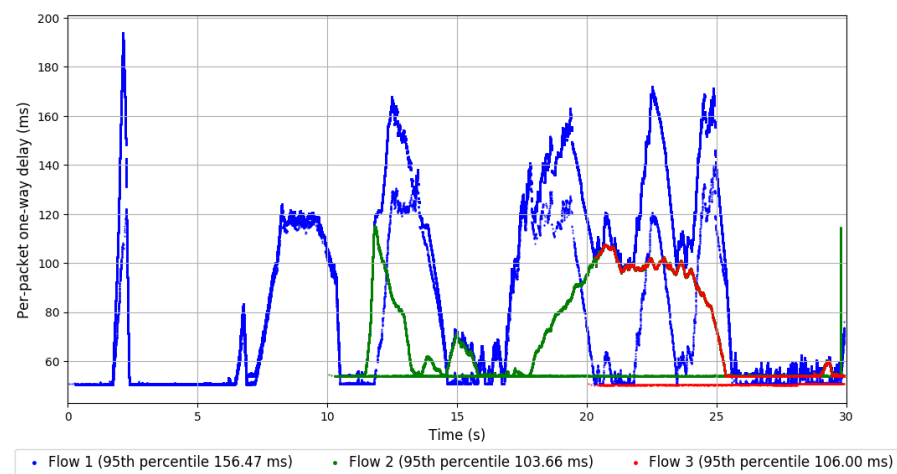
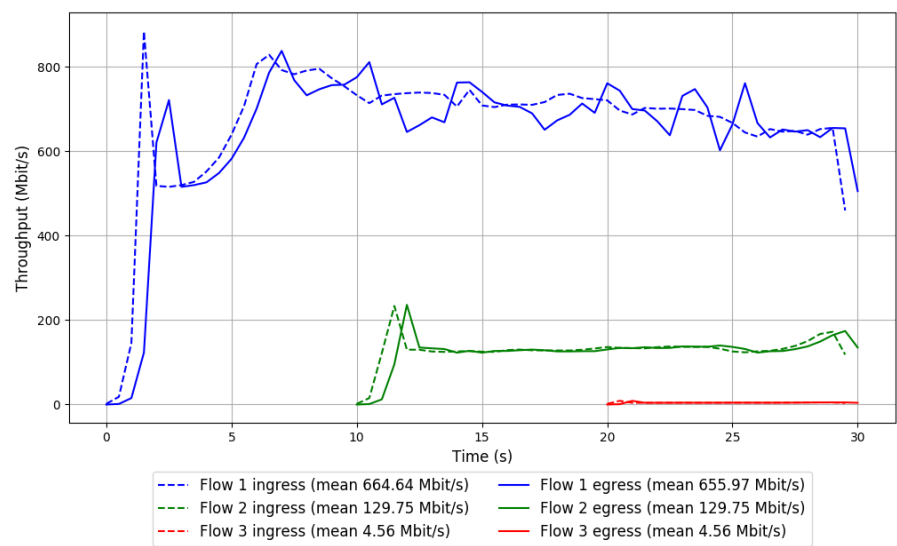


Run 9: Statistics of PCC-Allegro

Start at: 2018-08-03 14:03:36  
End at: 2018-08-03 14:04:06  
Local clock offset: -0.057 ms  
Remote clock offset: -0.016 ms

# Below is generated by plot.py at 2018-08-03 17:11:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 743.72 Mbit/s  
95th percentile per-packet one-way delay: 154.947 ms  
Loss rate: 1.14%  
-- Flow 1:  
Average throughput: 655.97 Mbit/s  
95th percentile per-packet one-way delay: 156.466 ms  
Loss rate: 1.29%  
-- Flow 2:  
Average throughput: 129.75 Mbit/s  
95th percentile per-packet one-way delay: 103.662 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 4.56 Mbit/s  
95th percentile per-packet one-way delay: 106.001 ms  
Loss rate: 0.03%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-08-03 14:29:01

End at: 2018-08-03 14:29:31

Local clock offset: 0.063 ms

Remote clock offset: -0.34 ms

# Below is generated by plot.py at 2018-08-03 17:11:54

# Datalink statistics

-- Total of 3 flows:

Average throughput: 744.19 Mbit/s

95th percentile per-packet one-way delay: 189.710 ms

Loss rate: 1.40%

-- Flow 1:

Average throughput: 608.40 Mbit/s

95th percentile per-packet one-way delay: 207.024 ms

Loss rate: 1.41%

-- Flow 2:

Average throughput: 143.99 Mbit/s

95th percentile per-packet one-way delay: 131.941 ms

Loss rate: 1.00%

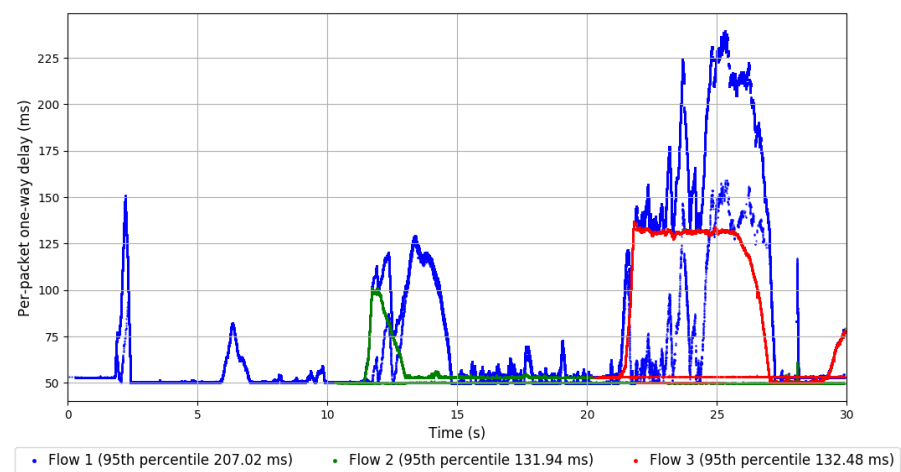
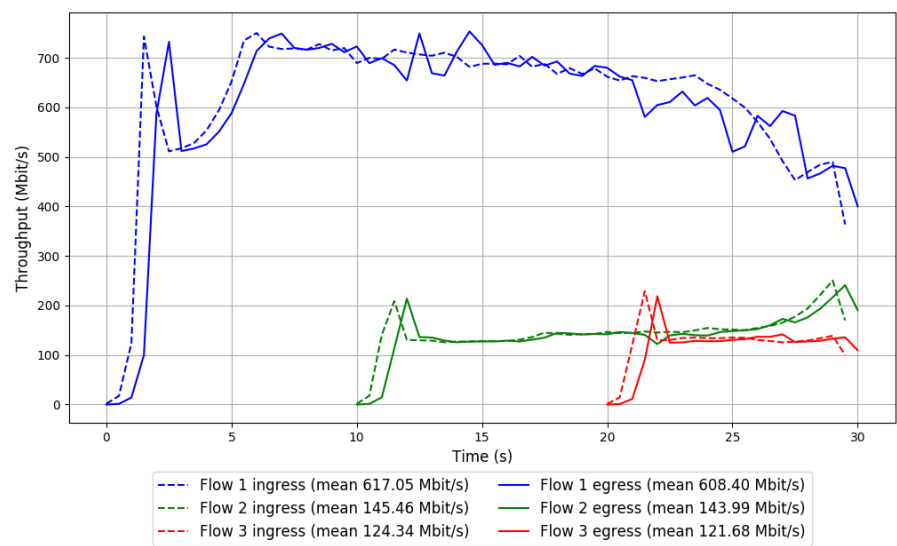
-- Flow 3:

Average throughput: 121.68 Mbit/s

95th percentile per-packet one-way delay: 132.476 ms

Loss rate: 2.16%

Run 10: Report of PCC-Allegro — Data Link

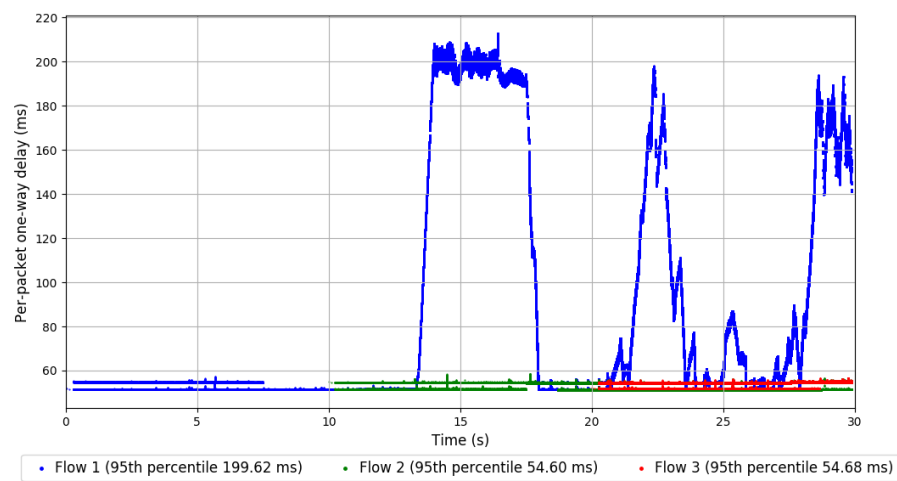
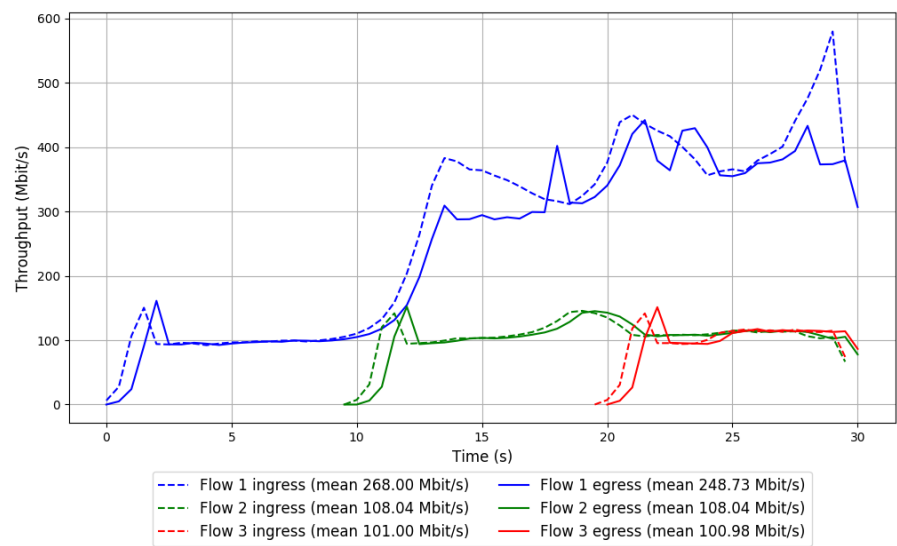


```
Run 1: Statistics of PCC-Expr

Start at: 2018-08-03 10:56:36
End at: 2018-08-03 10:57:06
Local clock offset: 0.029 ms
Remote clock offset: 1.057 ms

# Below is generated by plot.py at 2018-08-03 17:11:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 354.15 Mbit/s
95th percentile per-packet one-way delay: 197.393 ms
Loss rate: 5.15%
-- Flow 1:
Average throughput: 248.73 Mbit/s
95th percentile per-packet one-way delay: 199.623 ms
Loss rate: 7.18%
-- Flow 2:
Average throughput: 108.04 Mbit/s
95th percentile per-packet one-way delay: 54.596 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 100.98 Mbit/s
95th percentile per-packet one-way delay: 54.676 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Expr — Data Link

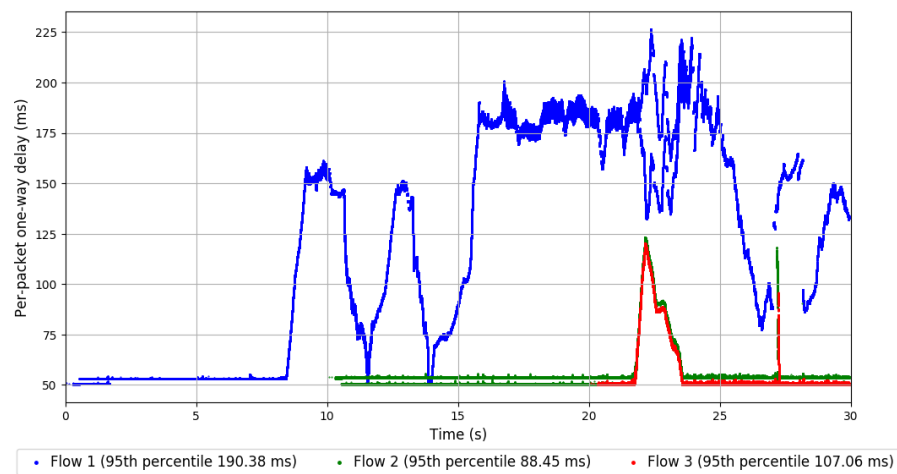
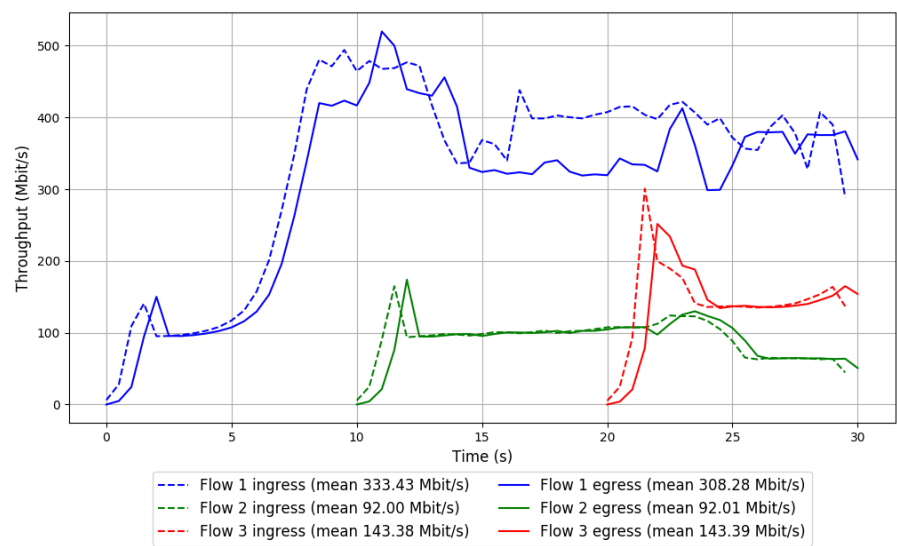


Run 2: Statistics of PCC-Expr

Start at: 2018-08-03 11:22:03  
End at: 2018-08-03 11:22:33  
Local clock offset: -0.099 ms  
Remote clock offset: -0.117 ms

# Below is generated by plot.py at 2018-08-03 17:13:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 416.75 Mbit/s  
95th percentile per-packet one-way delay: 188.379 ms  
Loss rate: 5.68%  
-- Flow 1:  
Average throughput: 308.28 Mbit/s  
95th percentile per-packet one-way delay: 190.384 ms  
Loss rate: 7.53%  
-- Flow 2:  
Average throughput: 92.01 Mbit/s  
95th percentile per-packet one-way delay: 88.449 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 143.39 Mbit/s  
95th percentile per-packet one-way delay: 107.065 ms  
Loss rate: 0.00%

Run 2: Report of PCC-Expr — Data Link

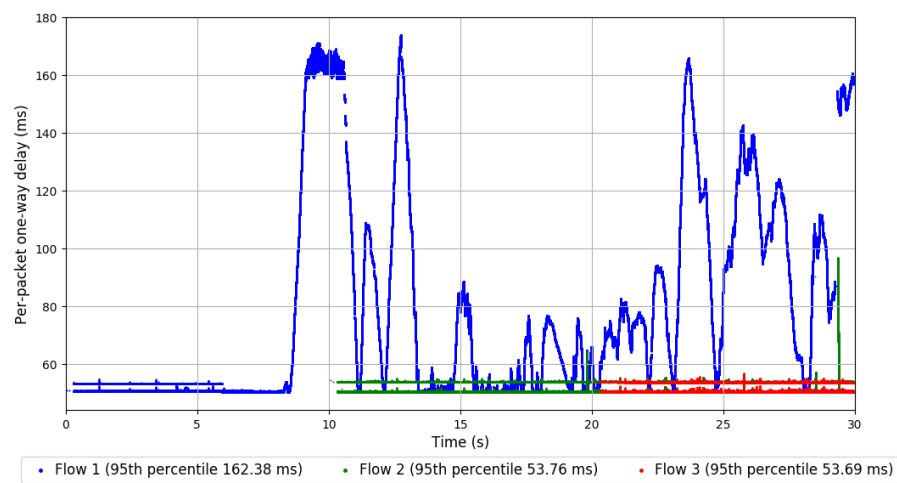
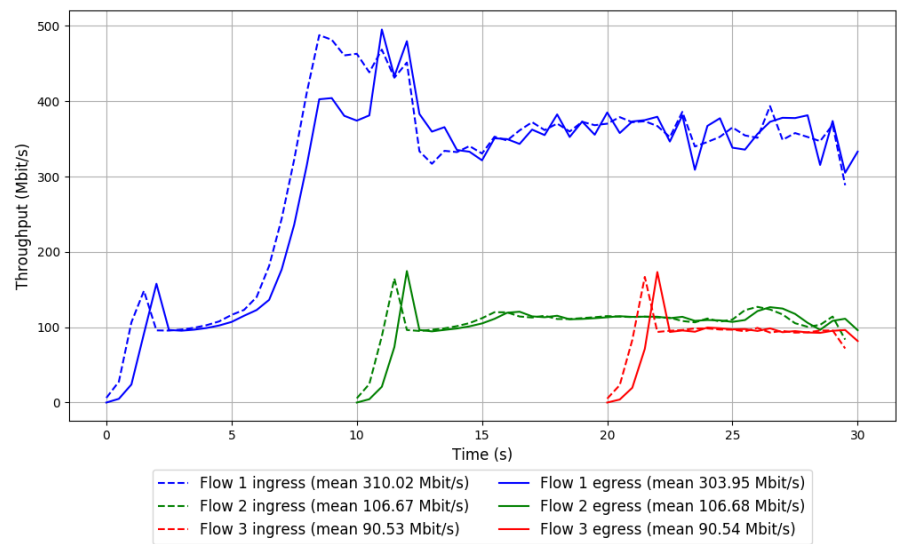


Run 3: Statistics of PCC-Expr

Start at: 2018-08-03 11:47:37  
End at: 2018-08-03 11:48:07  
Local clock offset: 0.027 ms  
Remote clock offset: -0.016 ms

# Below is generated by plot.py at 2018-08-03 17:13:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 404.75 Mbit/s  
95th percentile per-packet one-way delay: 160.672 ms  
Loss rate: 1.47%  
-- Flow 1:  
Average throughput: 303.95 Mbit/s  
95th percentile per-packet one-way delay: 162.377 ms  
Loss rate: 1.94%  
-- Flow 2:  
Average throughput: 106.68 Mbit/s  
95th percentile per-packet one-way delay: 53.759 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 90.54 Mbit/s  
95th percentile per-packet one-way delay: 53.686 ms  
Loss rate: 0.00%

Run 3: Report of PCC-Expr — Data Link

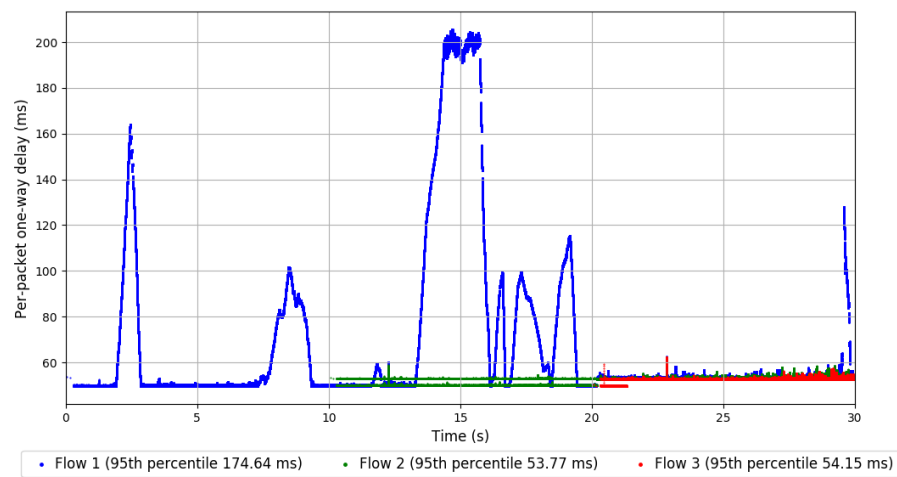
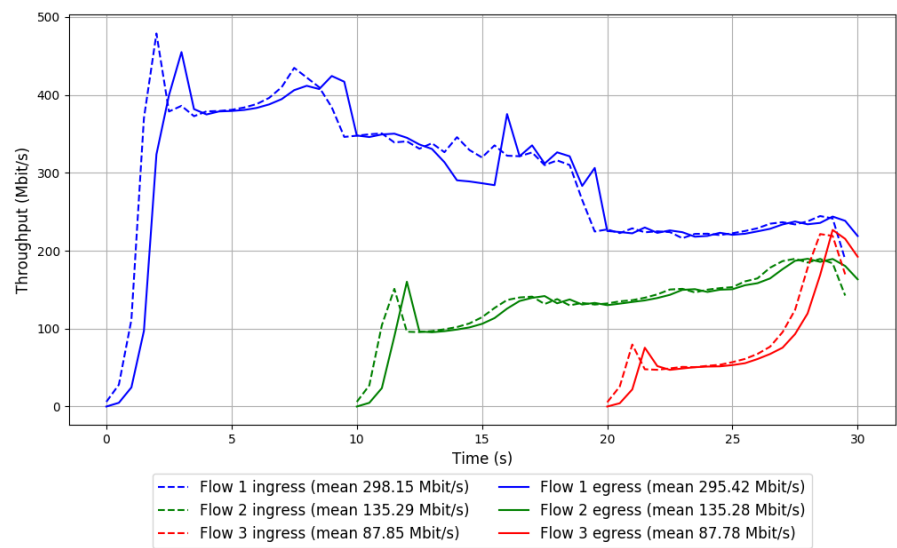


Run 4: Statistics of PCC-Expr

Start at: 2018-08-03 12:12:53  
End at: 2018-08-03 12:13:23  
Local clock offset: 0.027 ms  
Remote clock offset: -0.188 ms

# Below is generated by plot.py at 2018-08-03 17:16:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 414.36 Mbit/s  
95th percentile per-packet one-way delay: 144.705 ms  
Loss rate: 0.67%  
-- Flow 1:  
Average throughput: 295.42 Mbit/s  
95th percentile per-packet one-way delay: 174.638 ms  
Loss rate: 0.92%  
-- Flow 2:  
Average throughput: 135.28 Mbit/s  
95th percentile per-packet one-way delay: 53.775 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 87.78 Mbit/s  
95th percentile per-packet one-way delay: 54.153 ms  
Loss rate: 0.06%

Run 4: Report of PCC-Expr — Data Link

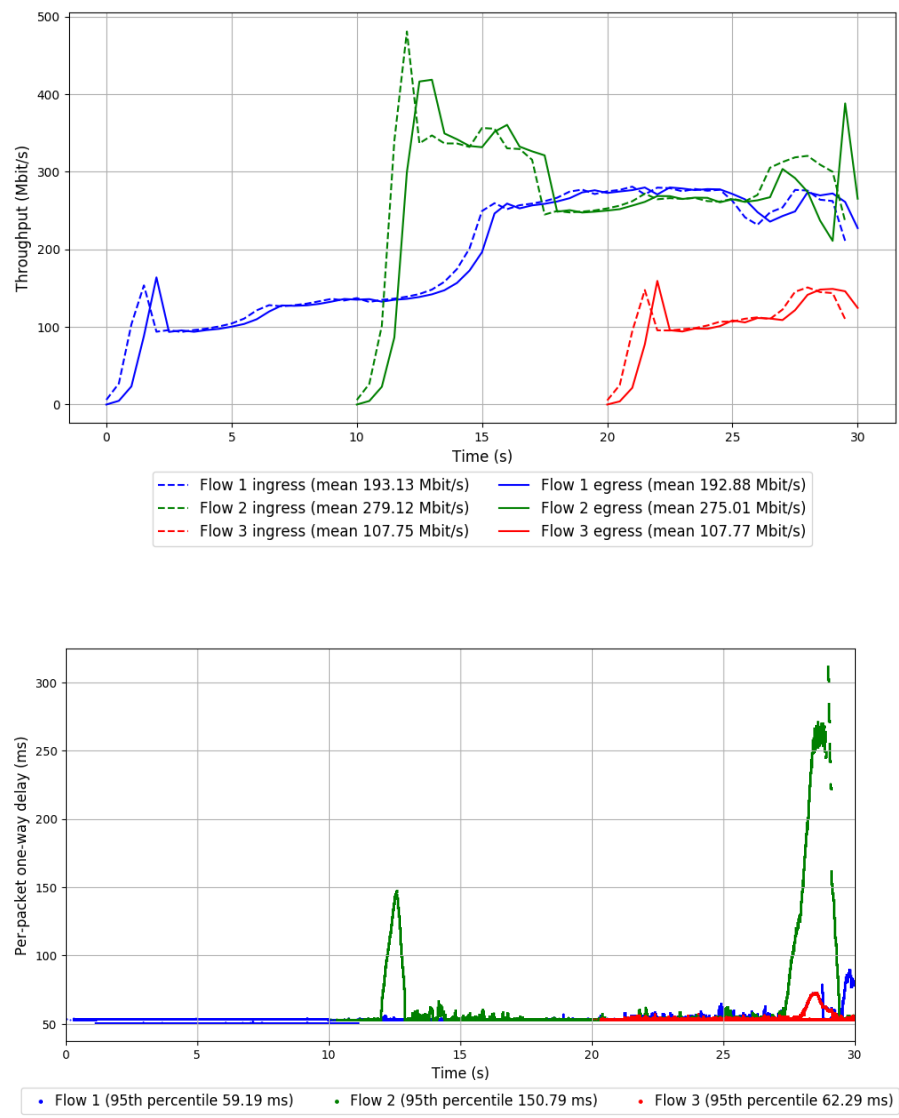


Run 5: Statistics of PCC-Expr

Start at: 2018-08-03 12:38:13  
End at: 2018-08-03 12:38:43  
Local clock offset: 0.058 ms  
Remote clock offset: -0.165 ms

# Below is generated by plot.py at 2018-08-03 17:18:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 411.32 Mbit/s  
95th percentile per-packet one-way delay: 108.111 ms  
Loss rate: 0.73%  
-- Flow 1:  
Average throughput: 192.88 Mbit/s  
95th percentile per-packet one-way delay: 59.186 ms  
Loss rate: 0.14%  
-- Flow 2:  
Average throughput: 275.01 Mbit/s  
95th percentile per-packet one-way delay: 150.795 ms  
Loss rate: 1.49%  
-- Flow 3:  
Average throughput: 107.77 Mbit/s  
95th percentile per-packet one-way delay: 62.287 ms  
Loss rate: 0.00%

Run 5: Report of PCC-Expr — Data Link

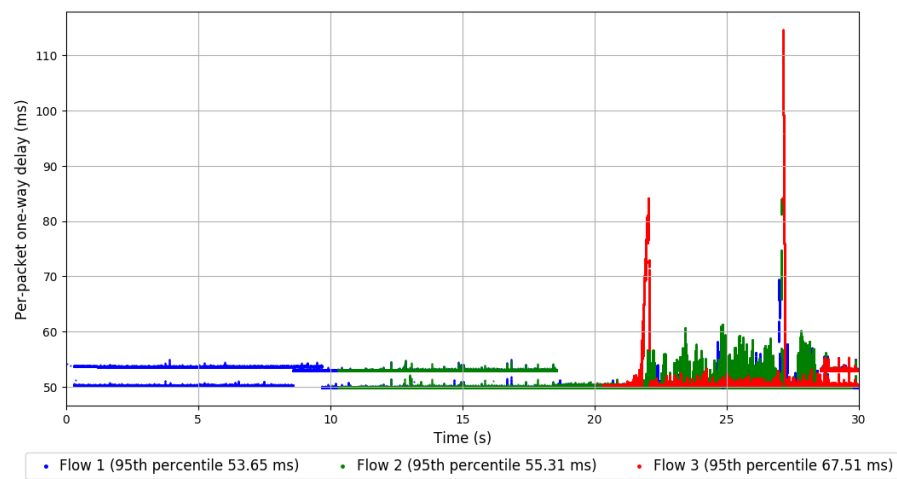
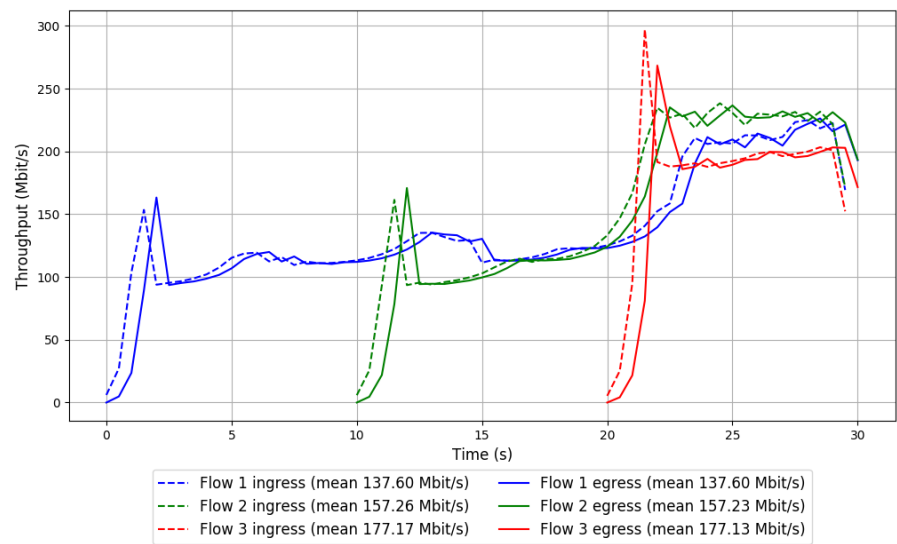


Run 6: Statistics of PCC-Expr

Start at: 2018-08-03 13:03:15  
End at: 2018-08-03 13:03:45  
Local clock offset: -0.001 ms  
Remote clock offset: -0.187 ms

# Below is generated by plot.py at 2018-08-03 17:18:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 300.65 Mbit/s  
95th percentile per-packet one-way delay: 53.991 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 137.60 Mbit/s  
95th percentile per-packet one-way delay: 53.650 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 157.23 Mbit/s  
95th percentile per-packet one-way delay: 55.310 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 177.13 Mbit/s  
95th percentile per-packet one-way delay: 67.507 ms  
Loss rate: 0.02%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-08-03 13:28:35

End at: 2018-08-03 13:29:05

Local clock offset: 0.018 ms

Remote clock offset: 0.088 ms

# Below is generated by plot.py at 2018-08-03 17:19:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 275.20 Mbit/s

95th percentile per-packet one-way delay: 57.967 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 98.71 Mbit/s

95th percentile per-packet one-way delay: 53.811 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 166.39 Mbit/s

95th percentile per-packet one-way delay: 59.305 ms

Loss rate: 0.00%

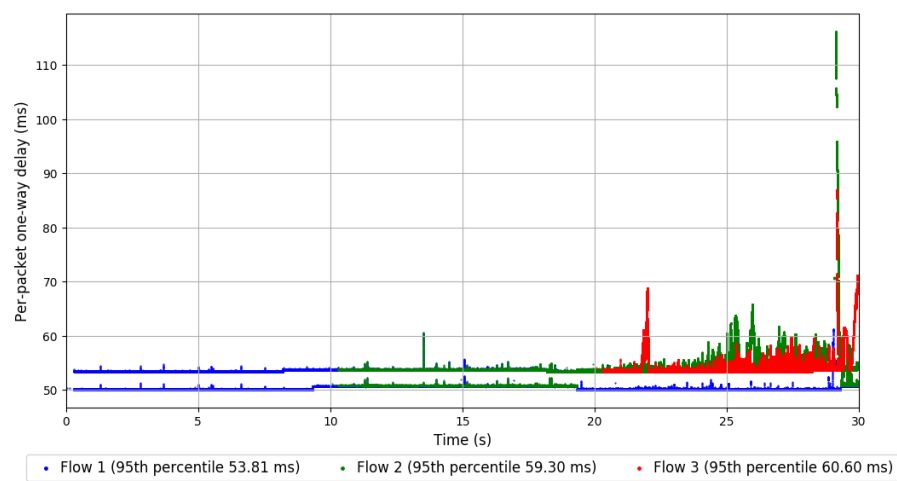
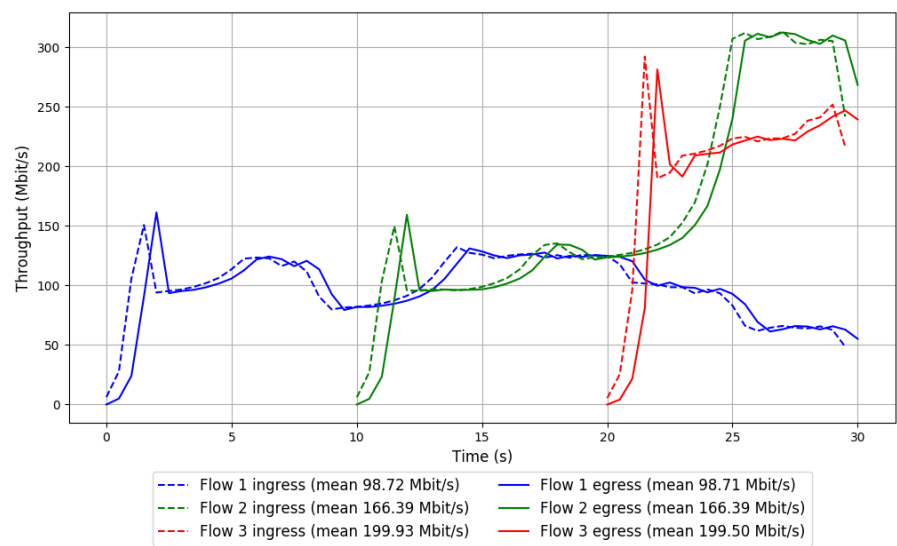
-- Flow 3:

Average throughput: 199.50 Mbit/s

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

Loss rate: 0.23%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-08-03 13:54:03

End at: 2018-08-03 13:54:33

Local clock offset: 0.002 ms

Remote clock offset: 0.005 ms

# Below is generated by plot.py at 2018-08-03 17:22:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 340.27 Mbit/s

95th percentile per-packet one-way delay: 130.182 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 101.94 Mbit/s

95th percentile per-packet one-way delay: 53.904 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 264.92 Mbit/s

95th percentile per-packet one-way delay: 150.316 ms

Loss rate: 1.36%

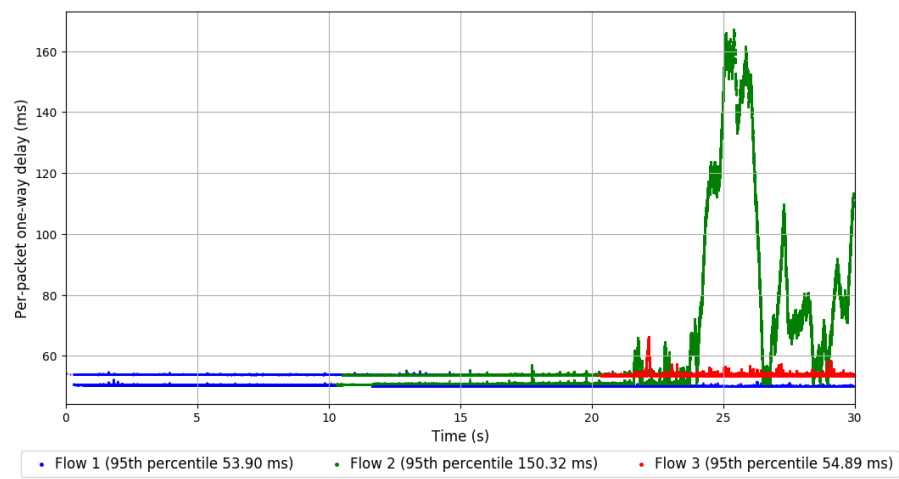
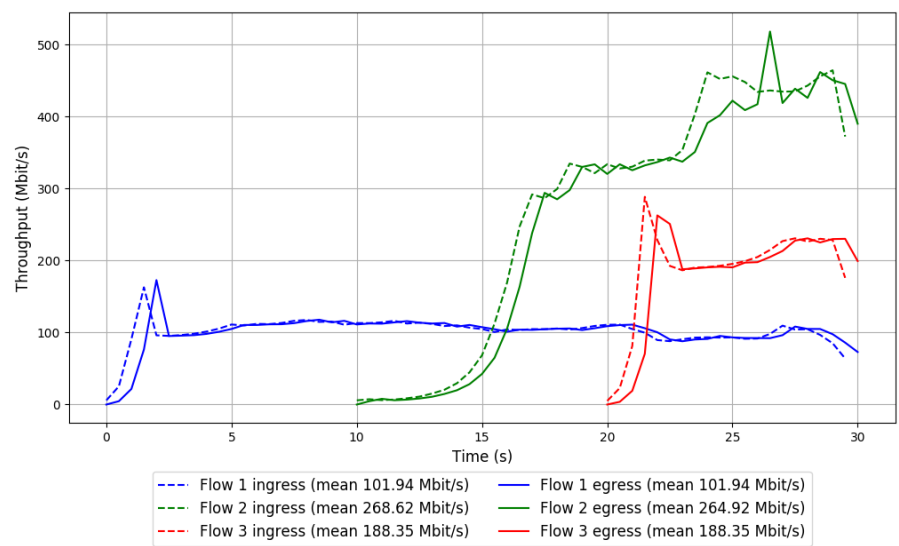
-- Flow 3:

Average throughput: 188.35 Mbit/s

95th percentile per-packet one-way delay: 54.888 ms

Loss rate: 0.00%

Run 8: Report of PCC-Expr — Data Link

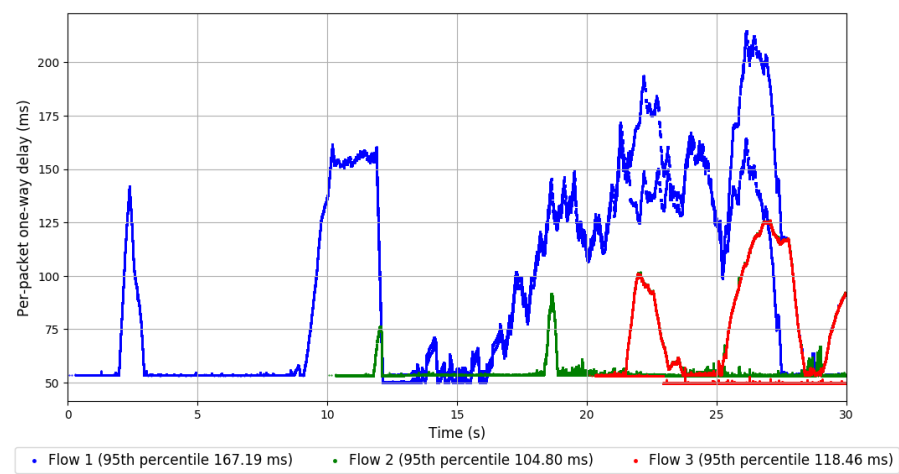
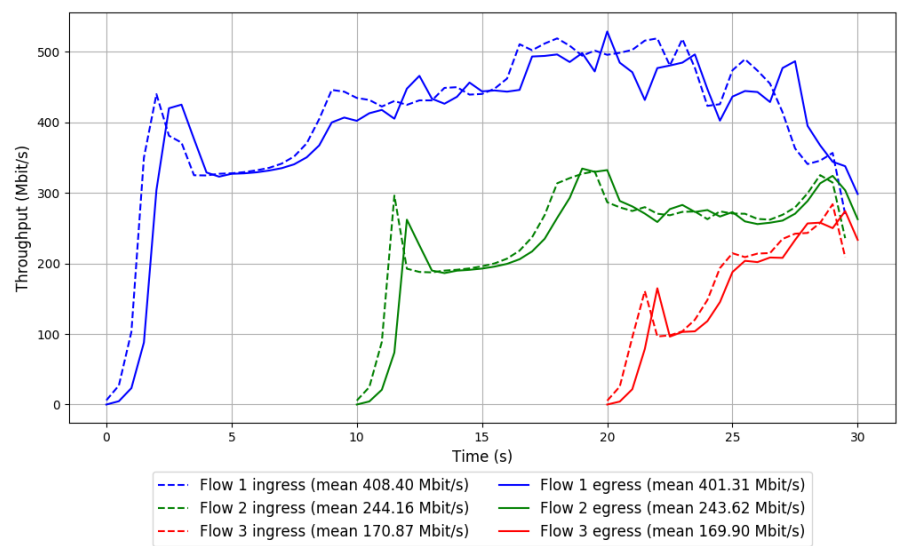


Run 9: Statistics of PCC-Expr

Start at: 2018-08-03 14:18:51  
End at: 2018-08-03 14:19:21  
Local clock offset: 0.255 ms  
Remote clock offset: -0.195 ms

# Below is generated by plot.py at 2018-08-03 17:31:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 619.35 Mbit/s  
95th percentile per-packet one-way delay: 157.963 ms  
Loss rate: 1.24%  
-- Flow 1:  
Average throughput: 401.31 Mbit/s  
95th percentile per-packet one-way delay: 167.189 ms  
Loss rate: 1.74%  
-- Flow 2:  
Average throughput: 243.62 Mbit/s  
95th percentile per-packet one-way delay: 104.800 ms  
Loss rate: 0.22%  
-- Flow 3:  
Average throughput: 169.90 Mbit/s  
95th percentile per-packet one-way delay: 118.460 ms  
Loss rate: 0.56%

Run 9: Report of PCC-Expr — Data Link

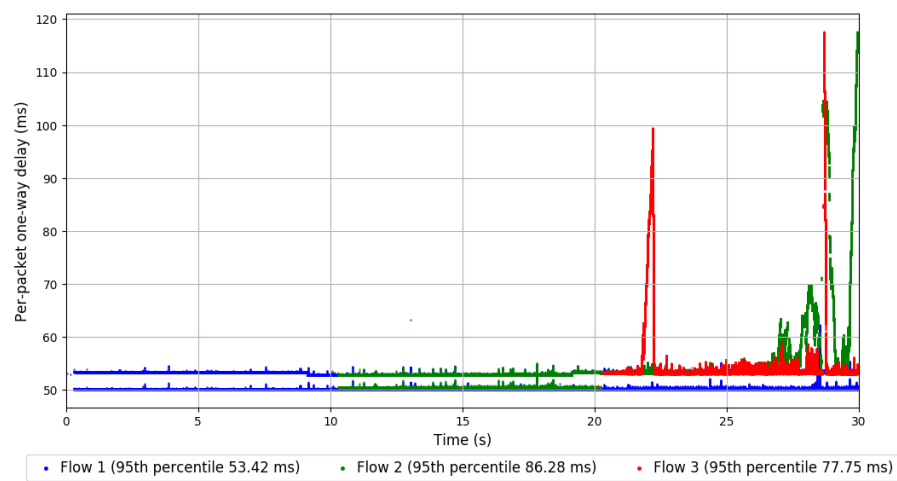
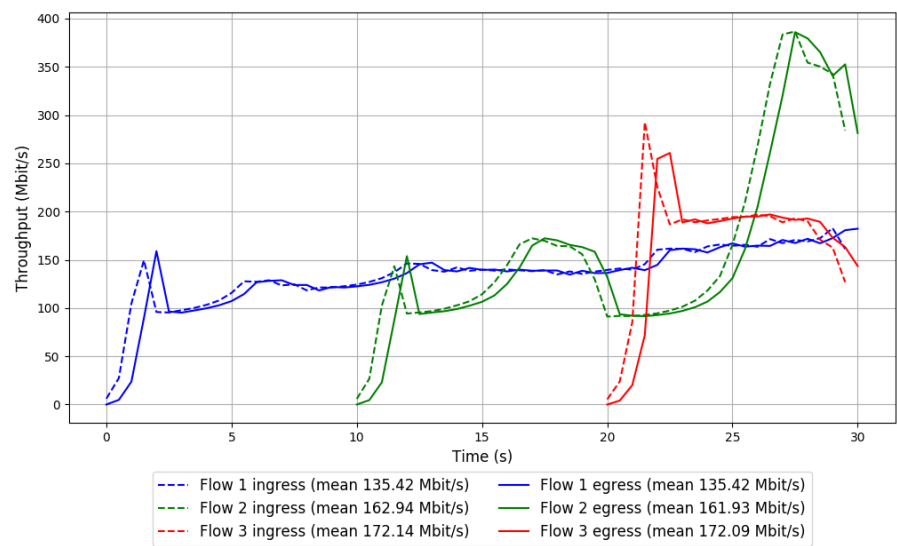


Run 10: Statistics of PCC-Expr

Start at: 2018-08-03 14:44:24  
End at: 2018-08-03 14:44:54  
Local clock offset: 0.086 ms  
Remote clock offset: -0.146 ms

# Below is generated by plot.py at 2018-08-03 17:31:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 299.93 Mbit/s  
95th percentile per-packet one-way delay: 65.579 ms  
Loss rate: 0.22%  
-- Flow 1:  
Average throughput: 135.42 Mbit/s  
95th percentile per-packet one-way delay: 53.425 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 161.93 Mbit/s  
95th percentile per-packet one-way delay: 86.280 ms  
Loss rate: 0.62%  
-- Flow 3:  
Average throughput: 172.09 Mbit/s  
95th percentile per-packet one-way delay: 77.747 ms  
Loss rate: 0.00%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-08-03 10:51:00

End at: 2018-08-03 10:51:30

Local clock offset: 0.199 ms

Remote clock offset: 0.038 ms

# Below is generated by plot.py at 2018-08-03 17:31:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 50.13 Mbit/s

95th percentile per-packet one-way delay: 53.105 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 50.293 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 59.85 Mbit/s

95th percentile per-packet one-way delay: 52.972 ms

Loss rate: 0.00%

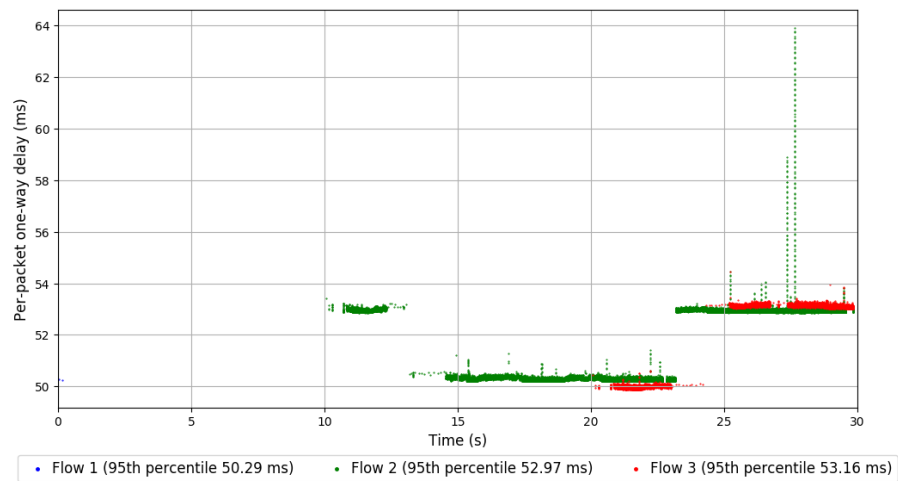
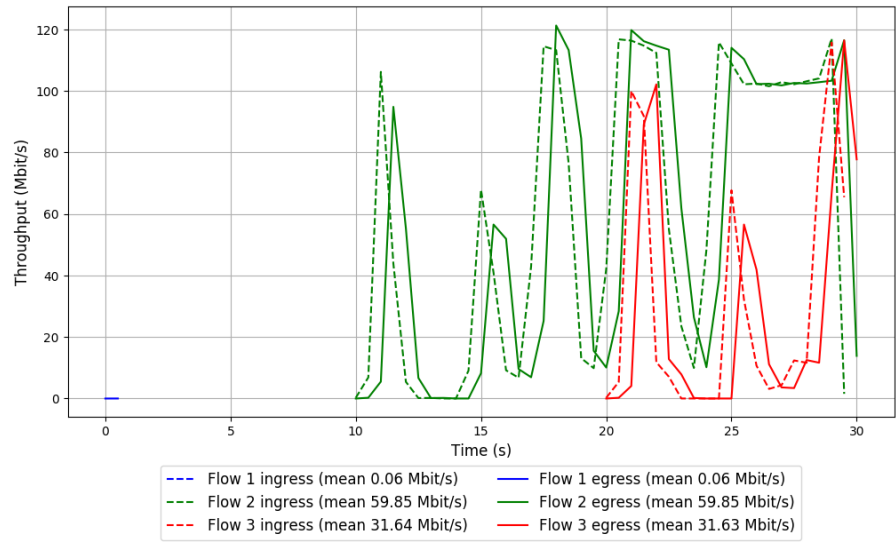
-- Flow 3:

Average throughput: 31.63 Mbit/s

95th percentile per-packet one-way delay: 53.165 ms

Loss rate: 0.00%

# Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-08-03 11:16:25

End at: 2018-08-03 11:16:55

Local clock offset: 0.204 ms

Remote clock offset: 0.024 ms

# Below is generated by plot.py at 2018-08-03 17:31:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 111.33 Mbit/s

95th percentile per-packet one-way delay: 53.462 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 69.89 Mbit/s

95th percentile per-packet one-way delay: 50.217 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 41.81 Mbit/s

95th percentile per-packet one-way delay: 50.147 ms

Loss rate: 0.00%

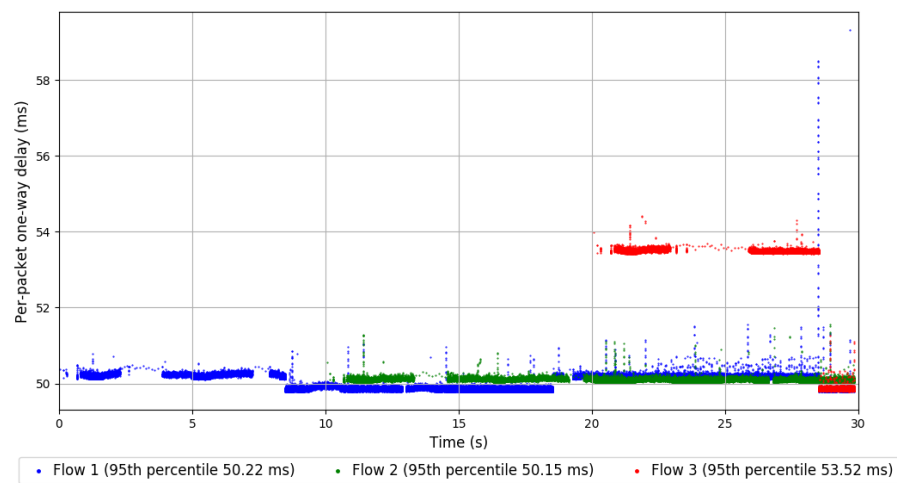
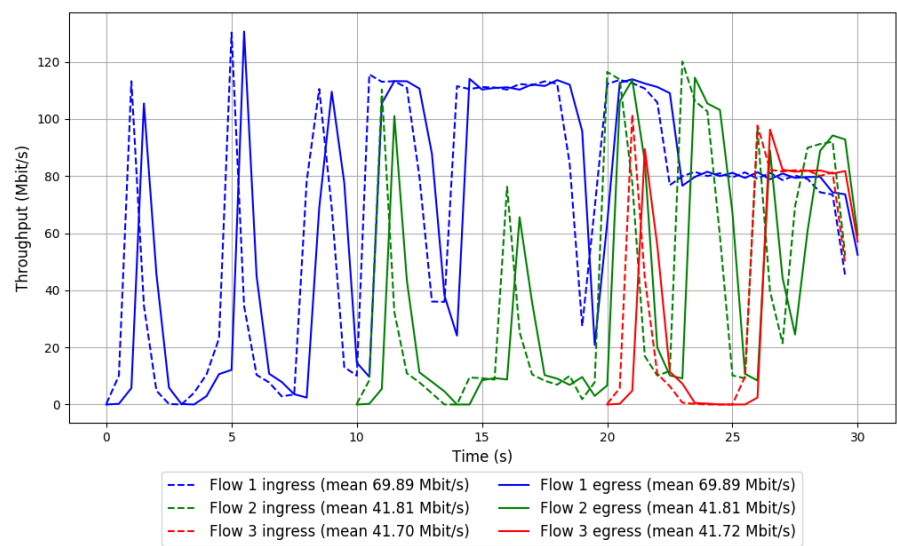
-- Flow 3:

Average throughput: 41.72 Mbit/s

95th percentile per-packet one-way delay: 53.523 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-08-03 11:42:03

End at: 2018-08-03 11:42:33

Local clock offset: -0.034 ms

Remote clock offset: 0.074 ms

# Below is generated by plot.py at 2018-08-03 17:31:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 104.62 Mbit/s

95th percentile per-packet one-way delay: 53.842 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 68.85 Mbit/s

95th percentile per-packet one-way delay: 53.418 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 45.87 Mbit/s

95th percentile per-packet one-way delay: 53.883 ms

Loss rate: 0.00%

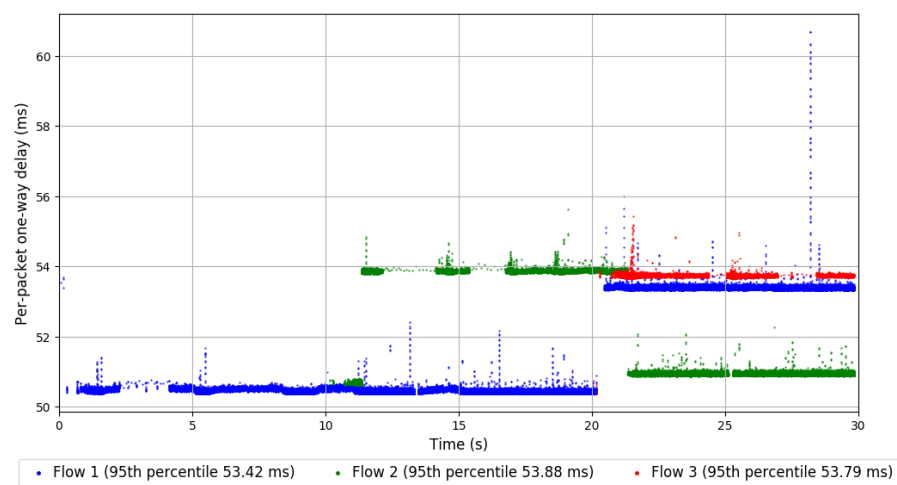
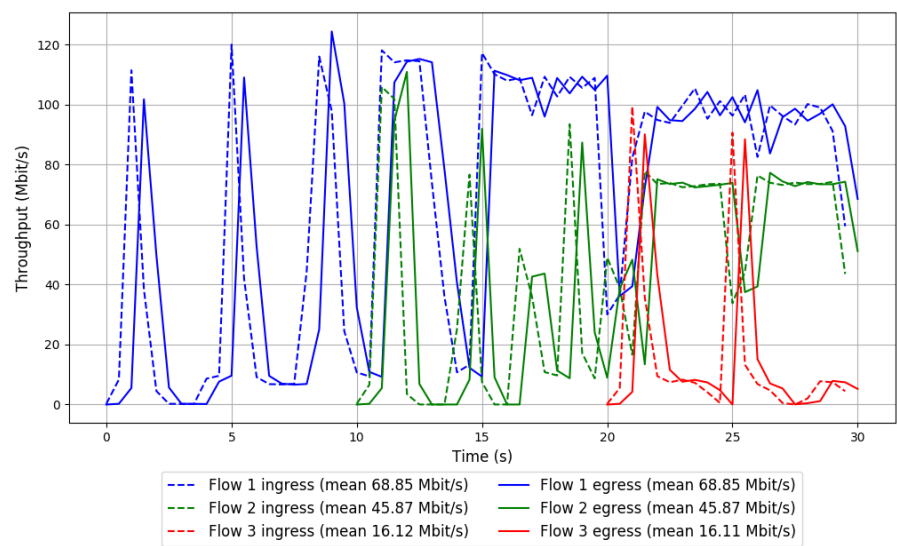
-- Flow 3:

Average throughput: 16.11 Mbit/s

95th percentile per-packet one-way delay: 53.789 ms

Loss rate: 0.01%

Run 3: Report of QUIC Cubic — Data Link

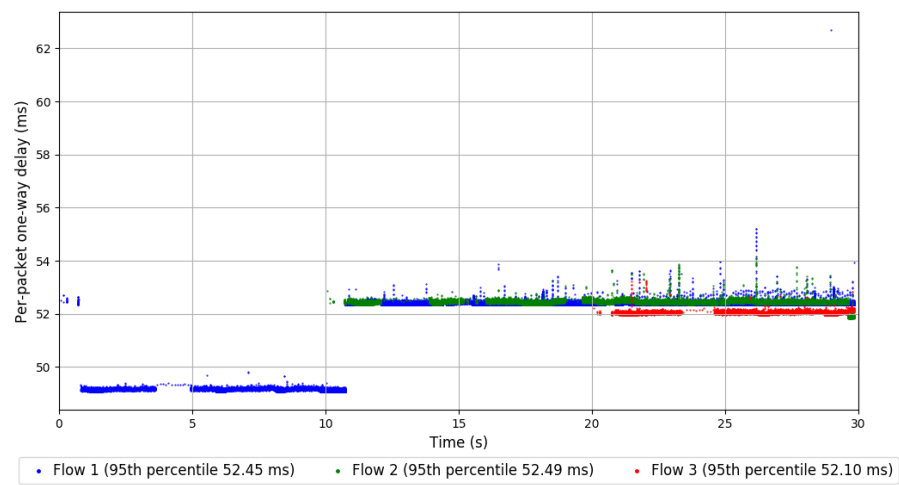
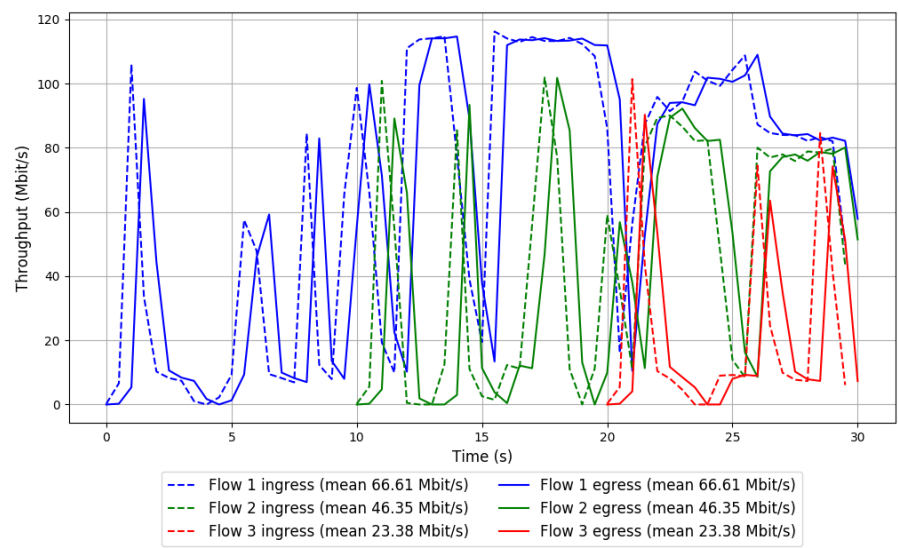


Run 4: Statistics of QUIC Cubic

Start at: 2018-08-03 12:07:13  
End at: 2018-08-03 12:07:43  
Local clock offset: -0.052 ms  
Remote clock offset: -1.278 ms

# Below is generated by plot.py at 2018-08-03 17:31:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 105.06 Mbit/s  
95th percentile per-packet one-way delay: 52.463 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 66.61 Mbit/s  
95th percentile per-packet one-way delay: 52.445 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 46.35 Mbit/s  
95th percentile per-packet one-way delay: 52.494 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 23.38 Mbit/s  
95th percentile per-packet one-way delay: 52.104 ms  
Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link

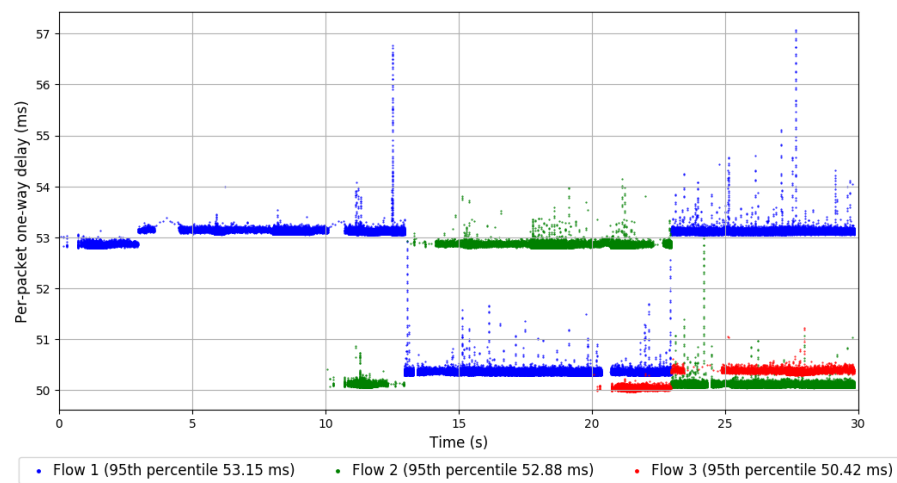
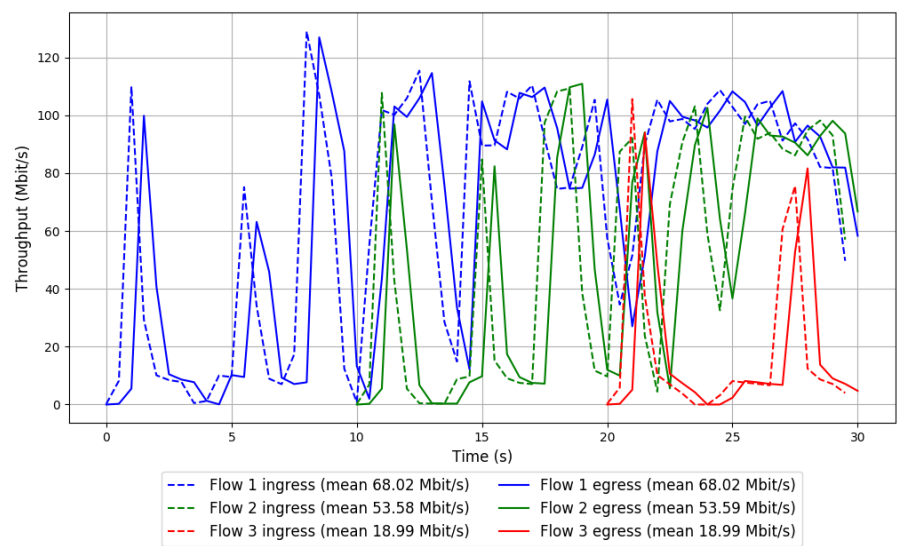


Run 5: Statistics of QUIC Cubic

Start at: 2018-08-03 12:32:31  
End at: 2018-08-03 12:33:01  
Local clock offset: 0.078 ms  
Remote clock offset: -0.2 ms

# Below is generated by plot.py at 2018-08-03 17:31:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 109.84 Mbit/s  
95th percentile per-packet one-way delay: 53.140 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 68.02 Mbit/s  
95th percentile per-packet one-way delay: 53.151 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 53.59 Mbit/s  
95th percentile per-packet one-way delay: 52.885 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 18.99 Mbit/s  
95th percentile per-packet one-way delay: 50.421 ms  
Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link

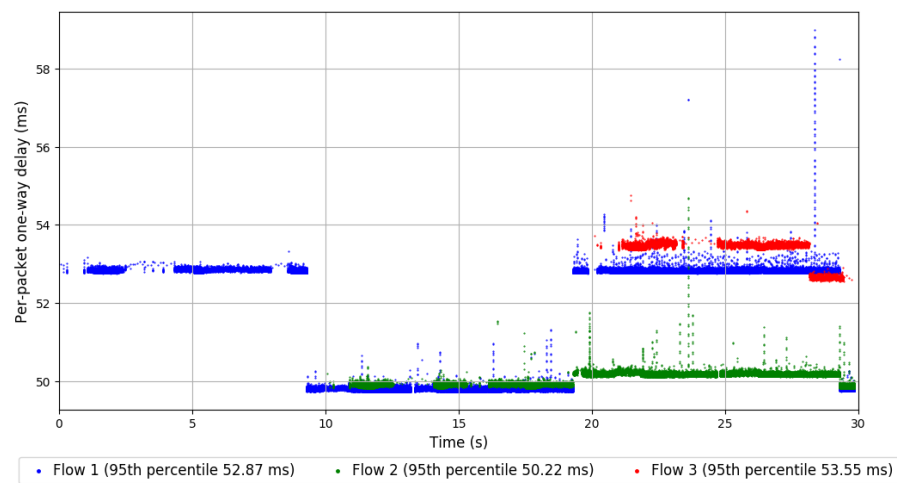
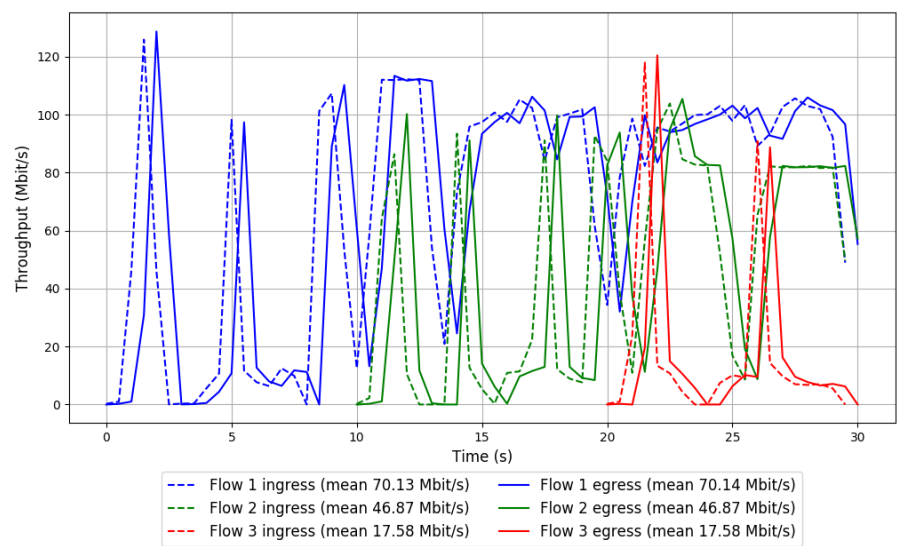


Run 6: Statistics of QUIC Cubic

Start at: 2018-08-03 12:57:35  
End at: 2018-08-03 12:58:05  
Local clock offset: 0.212 ms  
Remote clock offset: -0.318 ms

# Below is generated by plot.py at 2018-08-03 17:31:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 106.97 Mbit/s  
95th percentile per-packet one-way delay: 53.374 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 70.14 Mbit/s  
95th percentile per-packet one-way delay: 52.866 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 46.87 Mbit/s  
95th percentile per-packet one-way delay: 50.223 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 17.58 Mbit/s  
95th percentile per-packet one-way delay: 53.554 ms  
Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link

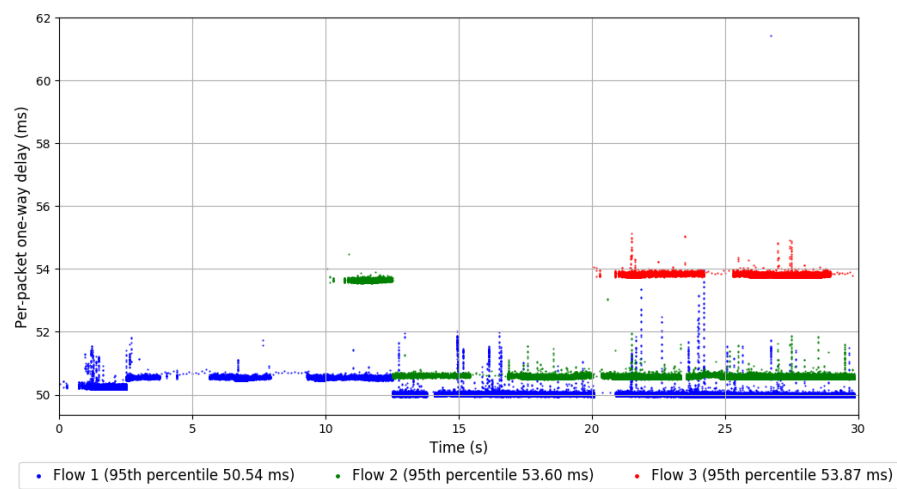
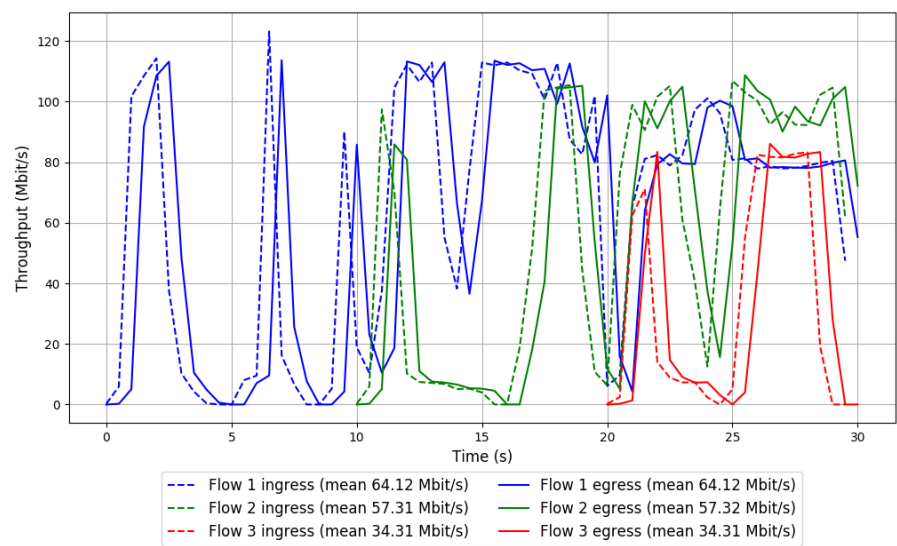


Run 7: Statistics of QUIC Cubic

Start at: 2018-08-03 13:23:02  
End at: 2018-08-03 13:23:32  
Local clock offset: 0.048 ms  
Remote clock offset: -0.021 ms

# Below is generated by plot.py at 2018-08-03 17:31:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 113.39 Mbit/s  
95th percentile per-packet one-way delay: 53.796 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 64.12 Mbit/s  
95th percentile per-packet one-way delay: 50.536 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 57.32 Mbit/s  
95th percentile per-packet one-way delay: 53.604 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 34.31 Mbit/s  
95th percentile per-packet one-way delay: 53.874 ms  
Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link

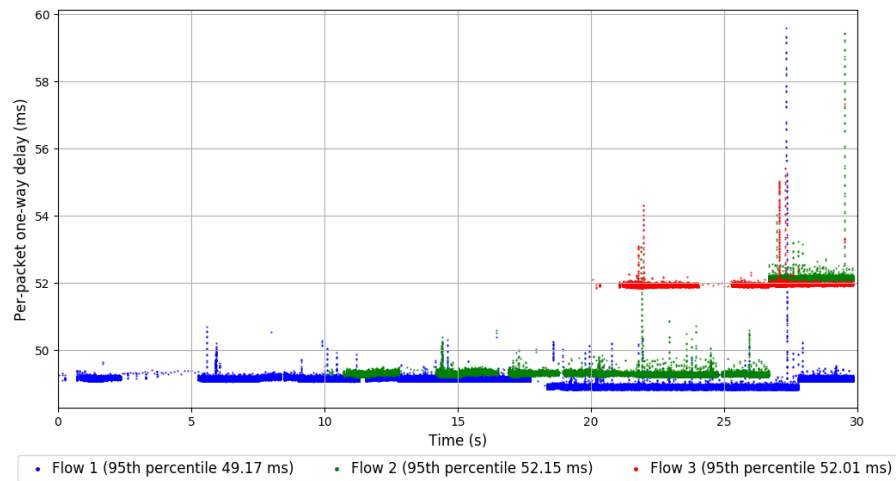
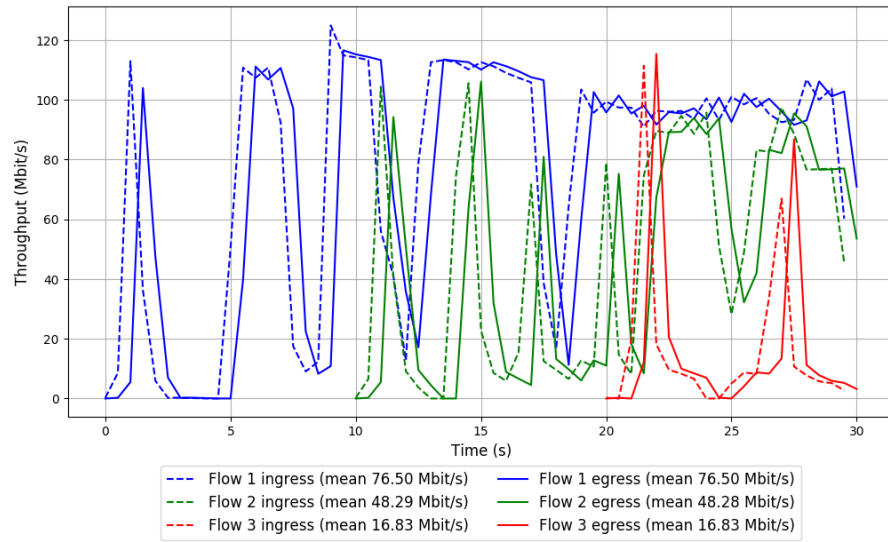


Run 8: Statistics of QUIC Cubic

Start at: 2018-08-03 13:48:26  
End at: 2018-08-03 13:48:56  
Local clock offset: 0.044 ms  
Remote clock offset: -1.387 ms

# Below is generated by plot.py at 2018-08-03 17:31:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 114.09 Mbit/s  
95th percentile per-packet one-way delay: 52.104 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 76.50 Mbit/s  
95th percentile per-packet one-way delay: 49.175 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 48.28 Mbit/s  
95th percentile per-packet one-way delay: 52.149 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 16.83 Mbit/s  
95th percentile per-packet one-way delay: 52.013 ms  
Loss rate: 0.00%

# Run 8: Report of QUIC Cubic — Data Link

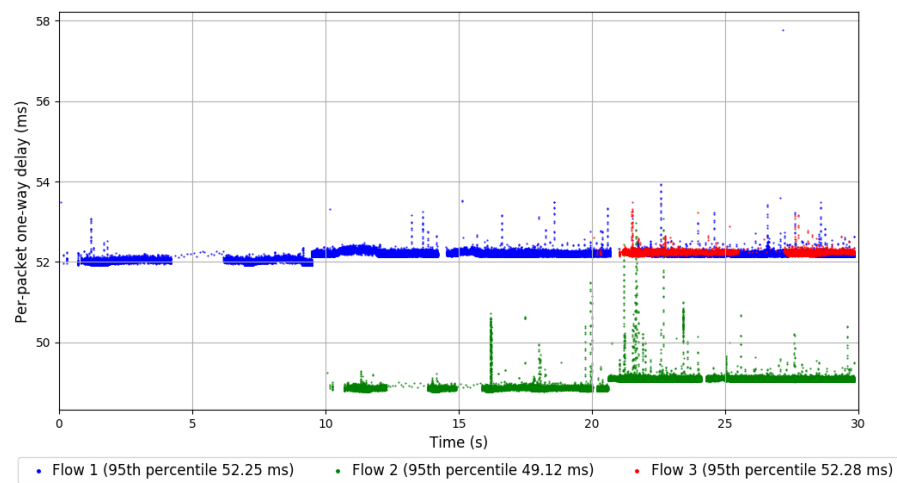
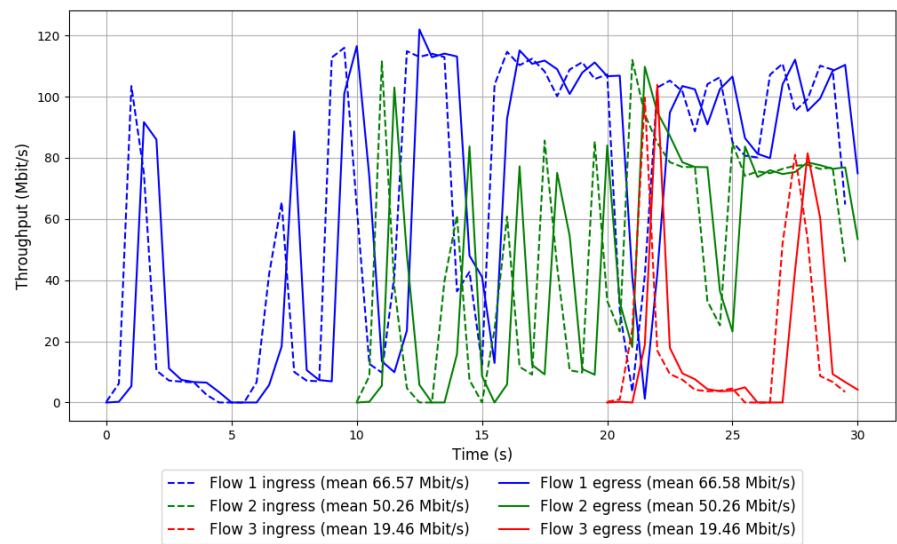


Run 9: Statistics of QUIC Cubic

Start at: 2018-08-03 14:13:14  
End at: 2018-08-03 14:13:44  
Local clock offset: -0.009 ms  
Remote clock offset: -1.614 ms

# Below is generated by plot.py at 2018-08-03 17:31:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 106.35 Mbit/s  
95th percentile per-packet one-way delay: 52.240 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 66.58 Mbit/s  
95th percentile per-packet one-way delay: 52.246 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 50.26 Mbit/s  
95th percentile per-packet one-way delay: 49.121 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 19.46 Mbit/s  
95th percentile per-packet one-way delay: 52.278 ms  
Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-08-03 14:38:44

End at: 2018-08-03 14:39:14

Local clock offset: -0.019 ms

Remote clock offset: -0.15 ms

# Below is generated by plot.py at 2018-08-03 17:31:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 102.49 Mbit/s

95th percentile per-packet one-way delay: 53.046 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 71.73 Mbit/s

95th percentile per-packet one-way delay: 53.043 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 38.45 Mbit/s

95th percentile per-packet one-way delay: 53.053 ms

Loss rate: 0.02%

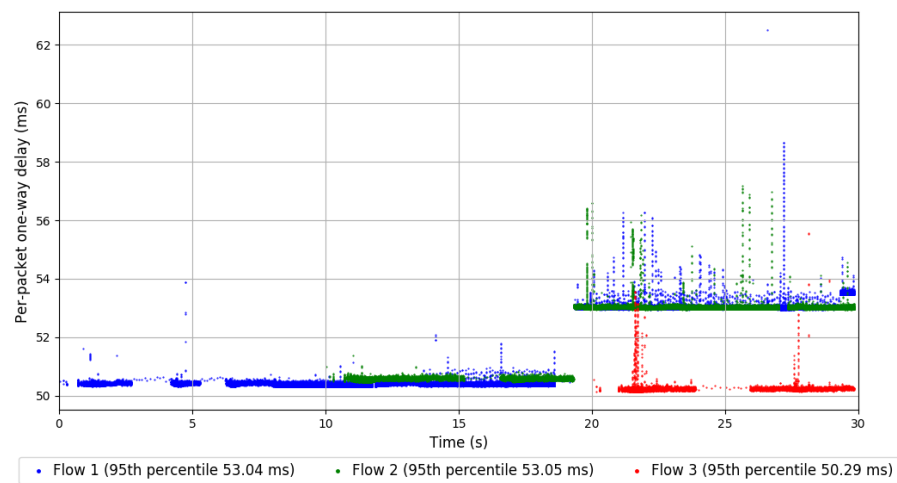
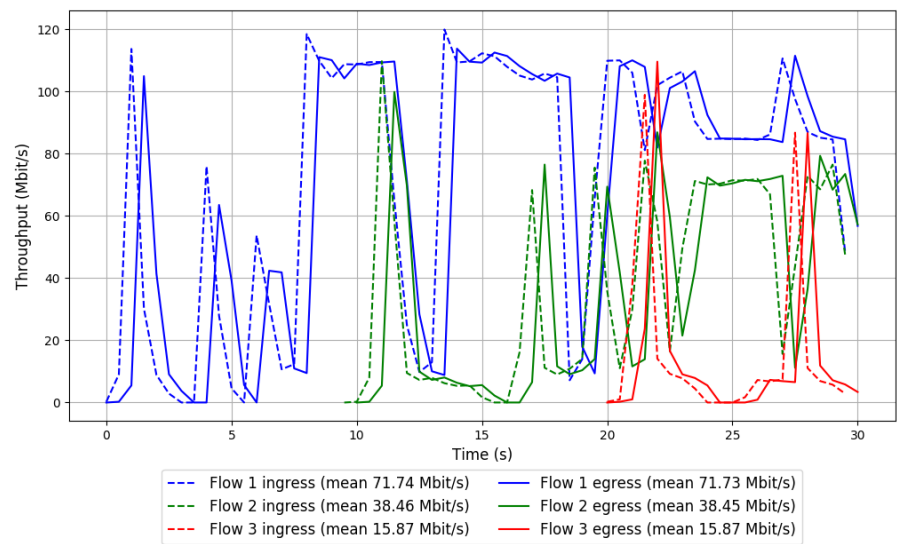
-- Flow 3:

Average throughput: 15.87 Mbit/s

95th percentile per-packet one-way delay: 50.287 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

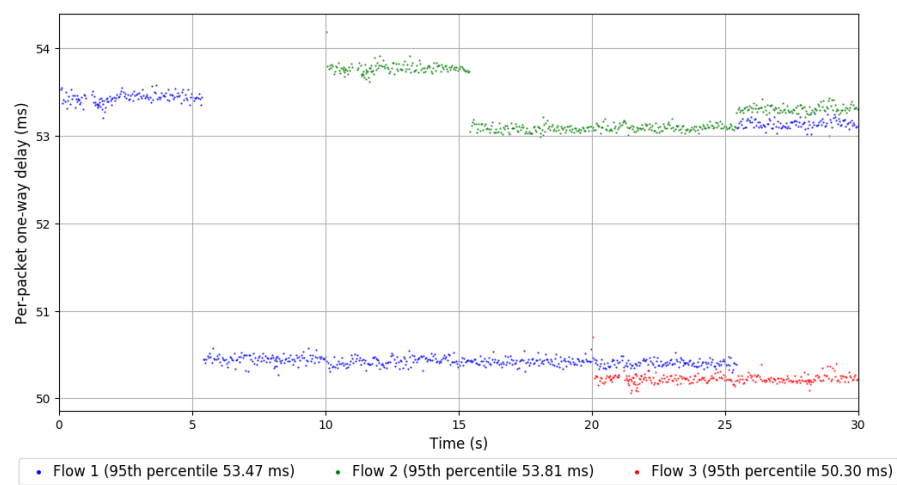
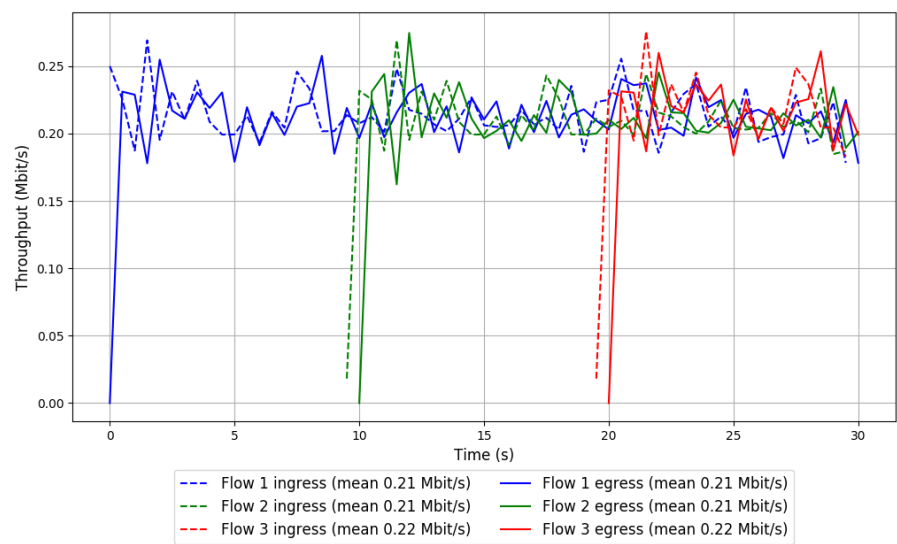


```
Run 1: Statistics of SReAM

Start at: 2018-08-03 10:54:19
End at: 2018-08-03 10:54:49
Local clock offset: 0.037 ms
Remote clock offset: -0.14 ms

# Below is generated by plot.py at 2018-08-03 17:31:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.767 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.466 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.811 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.301 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

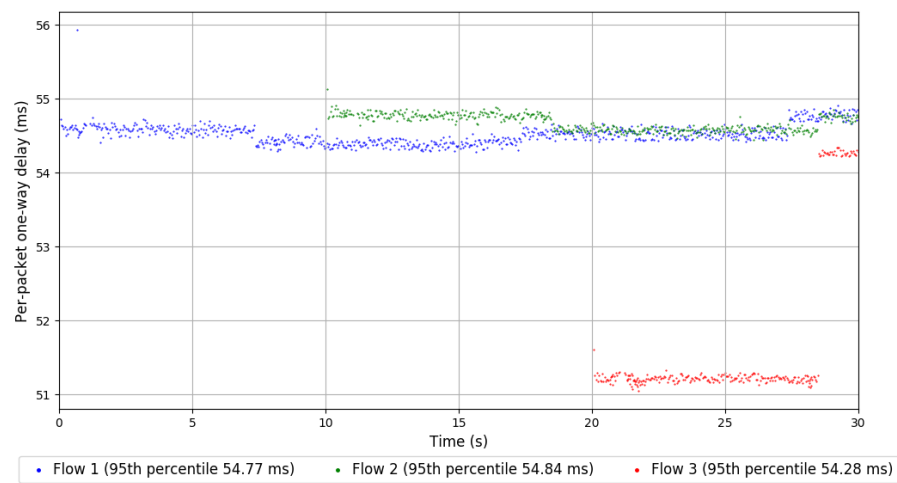
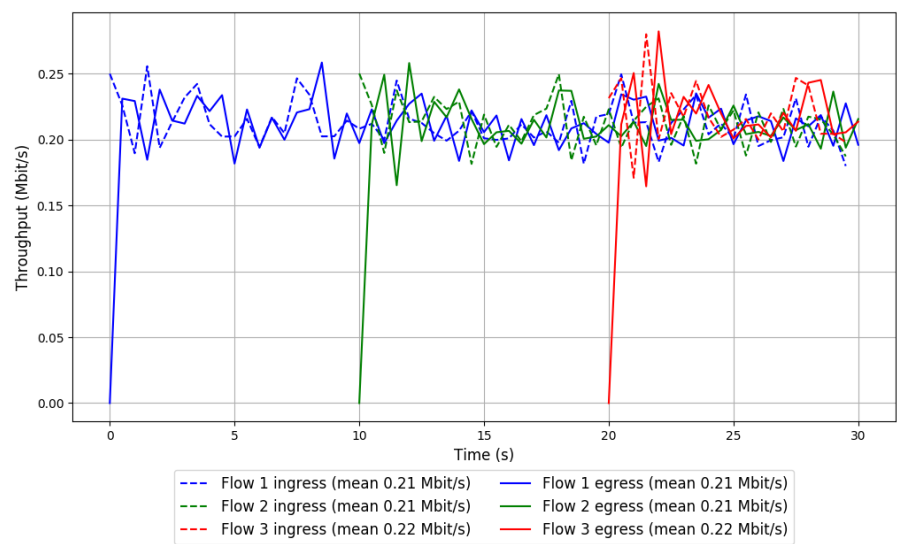


```
Run 2: Statistics of SReAM

Start at: 2018-08-03 11:19:46
End at: 2018-08-03 11:20:16
Local clock offset: 0.171 ms
Remote clock offset: 1.224 ms

# Below is generated by plot.py at 2018-08-03 17:31:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 54.811 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.767 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.839 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 54.284 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link

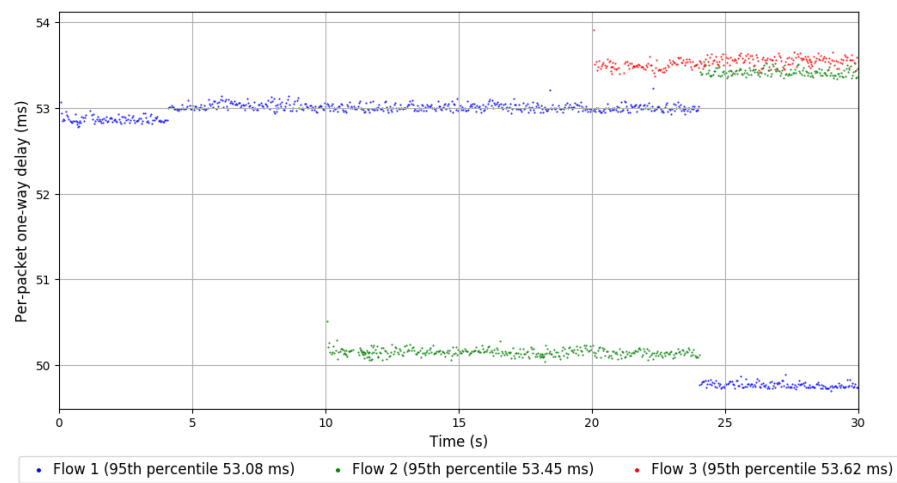
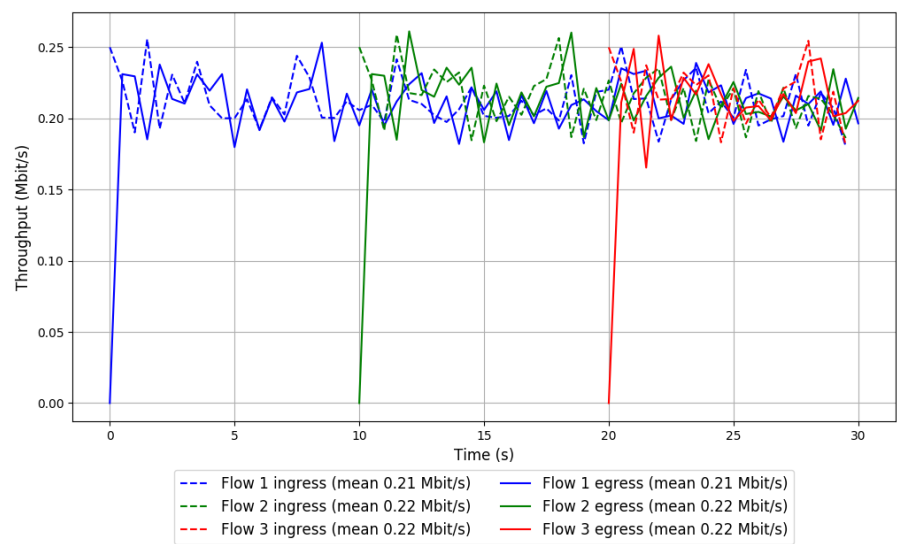


Run 3: Statistics of SReAM

Start at: 2018-08-03 11:45:20  
End at: 2018-08-03 11:45:50  
Local clock offset: -0.119 ms  
Remote clock offset: -0.456 ms

# Below is generated by plot.py at 2018-08-03 17:31:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 53.565 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 53.075 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 53.455 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 53.624 ms  
Loss rate: 0.00%

Run 3: Report of SCSReAM — Data Link

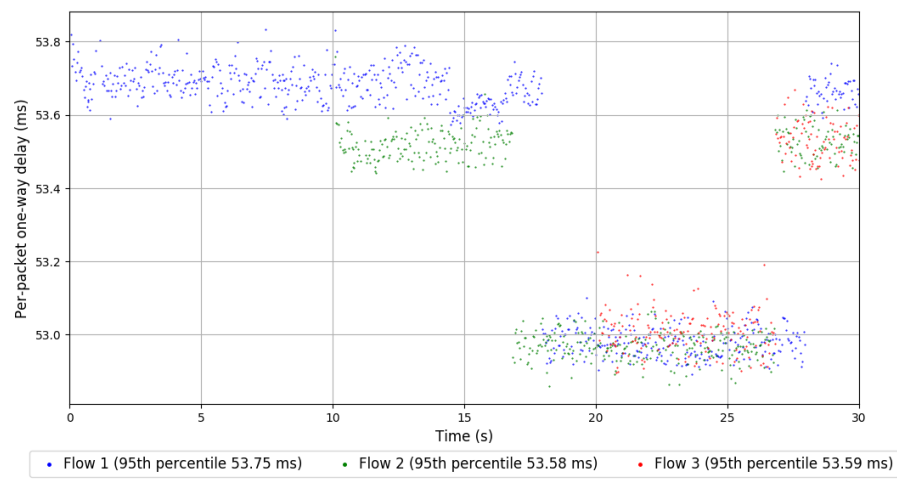
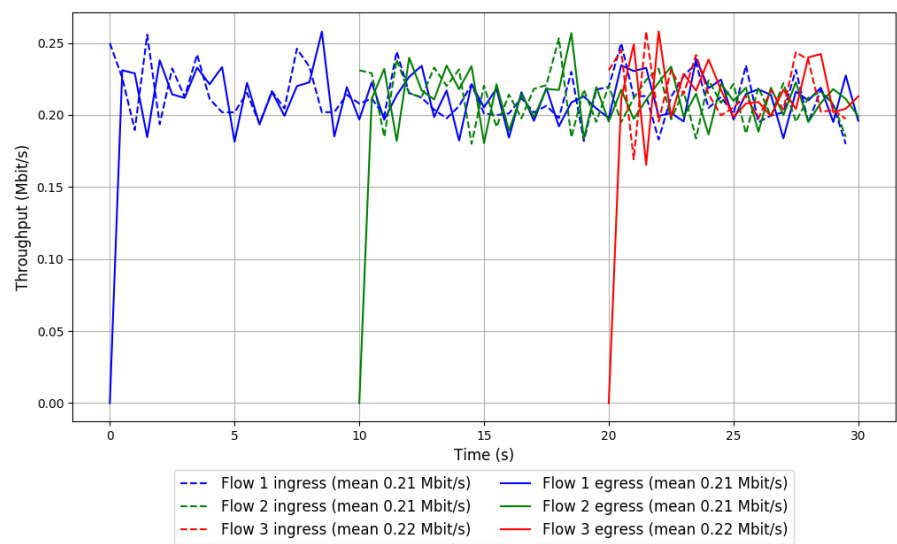


Run 4: Statistics of SReAM

Start at: 2018-08-03 12:10:36  
End at: 2018-08-03 12:11:06  
Local clock offset: -0.03 ms  
Remote clock offset: -0.309 ms

# Below is generated by plot.py at 2018-08-03 17:31:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 53.728 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 53.746 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 53.575 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 53.586 ms  
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-08-03 12:35:57

End at: 2018-08-03 12:36:27

Local clock offset: -0.004 ms

Remote clock offset: 0.028 ms

# Below is generated by plot.py at 2018-08-03 17:31:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 53.581 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.847 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.794 ms

Loss rate: 0.00%

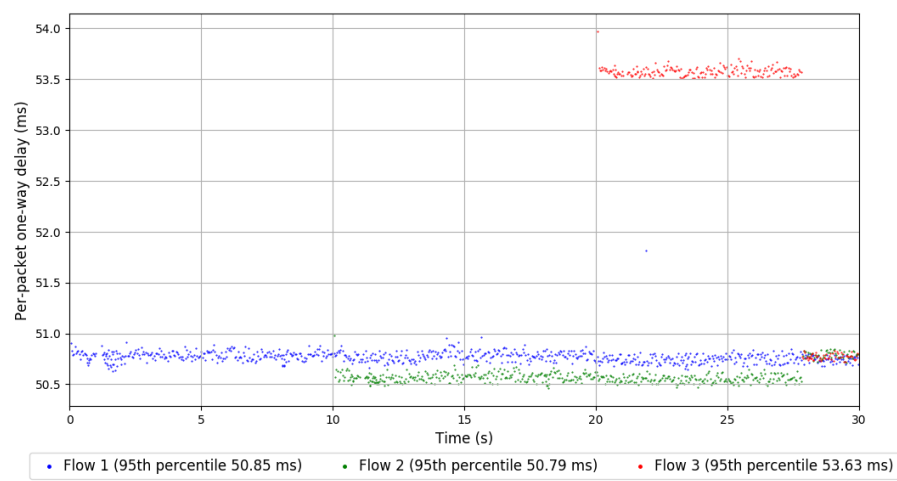
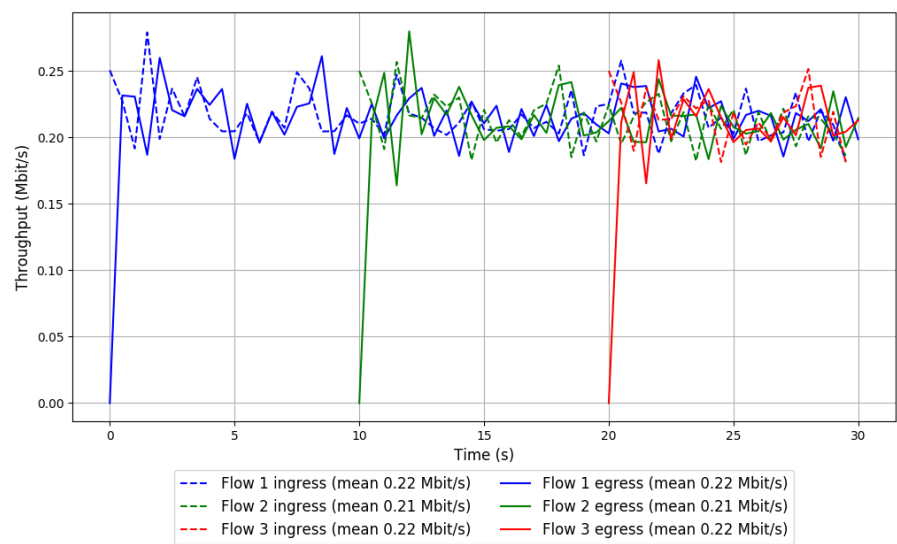
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.631 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

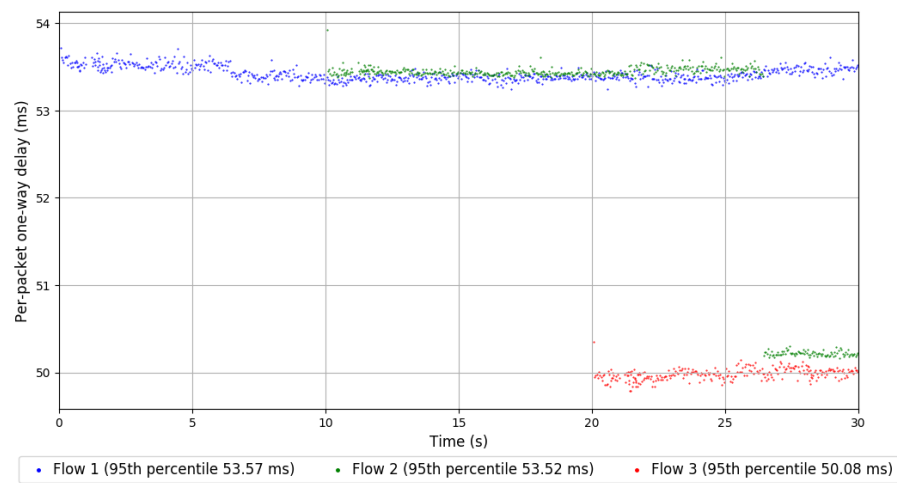
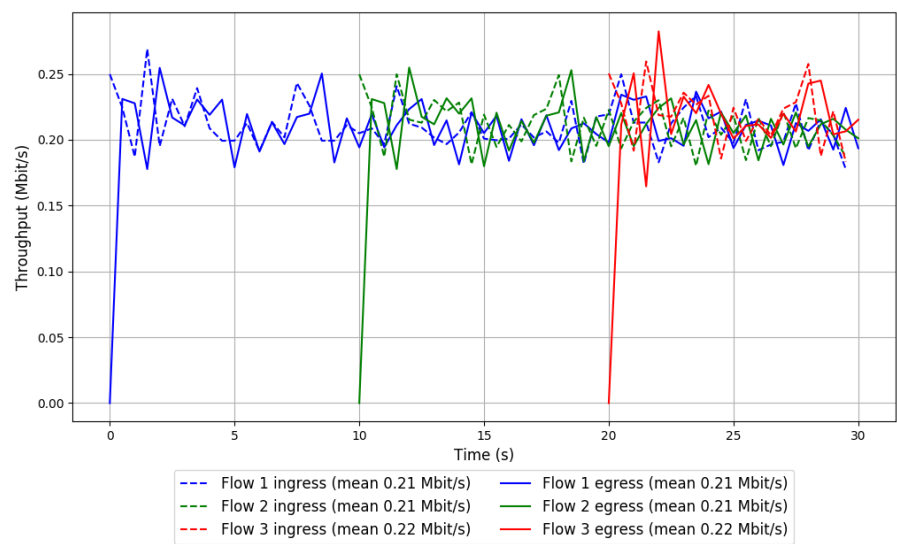


Run 6: Statistics of SReAM

Start at: 2018-08-03 13:00:58  
End at: 2018-08-03 13:01:28  
Local clock offset: 0.178 ms  
Remote clock offset: -0.371 ms

# Below is generated by plot.py at 2018-08-03 17:31:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 53.545 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 53.567 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 53.515 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.082 ms  
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

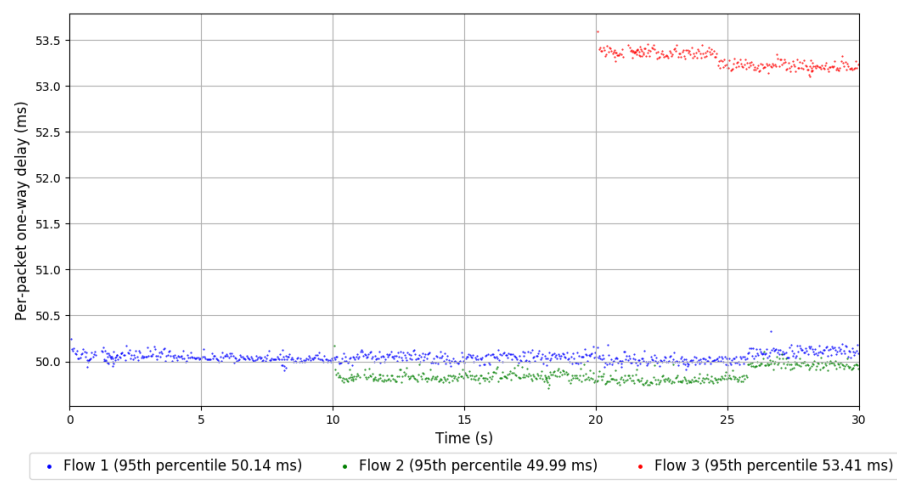
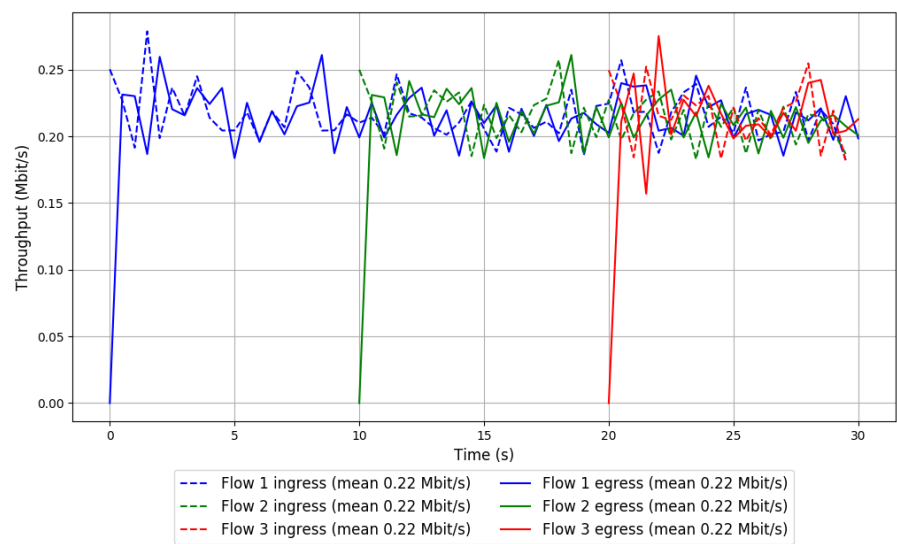


Run 7: Statistics of SReAM

Start at: 2018-08-03 13:26:19  
End at: 2018-08-03 13:26:49  
Local clock offset: 0.105 ms  
Remote clock offset: -0.501 ms

# Below is generated by plot.py at 2018-08-03 17:31:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 53.348 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.137 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 49.987 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 53.414 ms  
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link

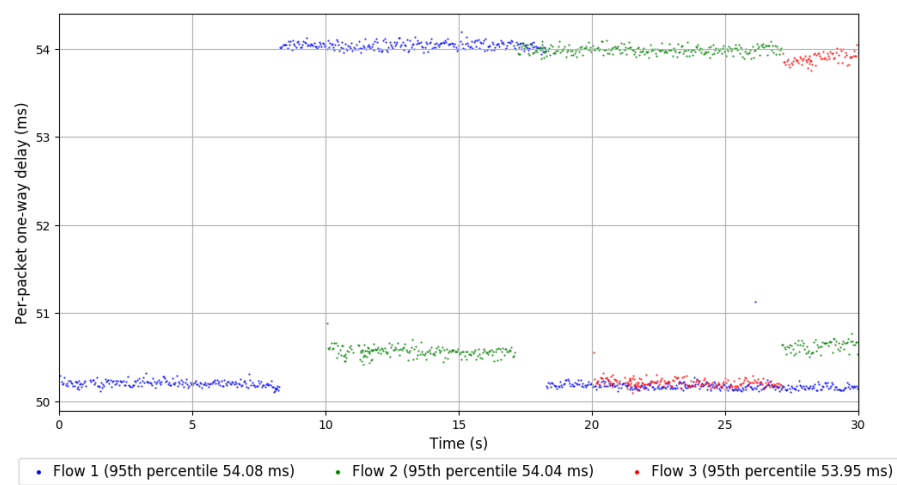
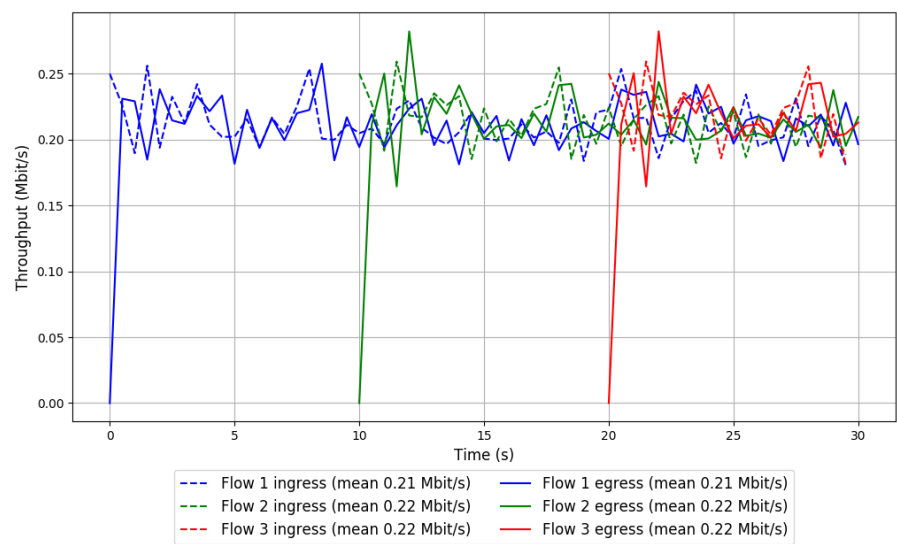


Run 8: Statistics of SReAM

Start at: 2018-08-03 13:51:46  
End at: 2018-08-03 13:52:16  
Local clock offset: -0.006 ms  
Remote clock offset: -0.008 ms

# Below is generated by plot.py at 2018-08-03 17:31:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 54.067 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 54.078 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 54.044 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 53.949 ms  
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

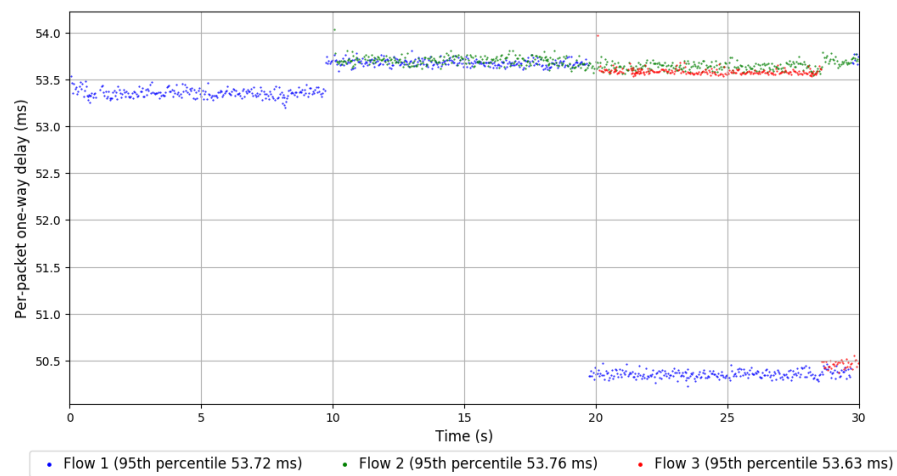
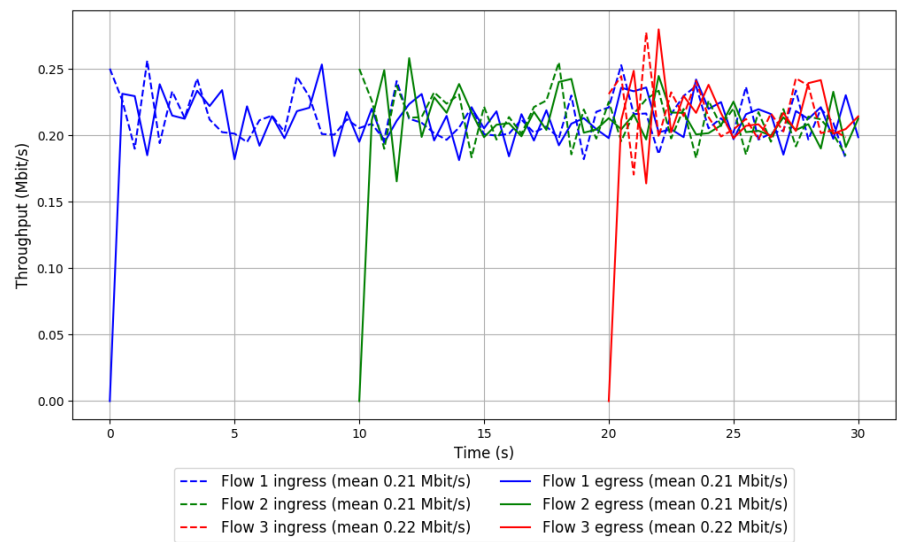


Run 9: Statistics of SReAM

Start at: 2018-08-03 14:16:35  
End at: 2018-08-03 14:17:05  
Local clock offset: -0.0 ms  
Remote clock offset: -0.219 ms

# Below is generated by plot.py at 2018-08-03 17:31:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 53.740 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 53.715 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 53.759 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 53.631 ms  
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

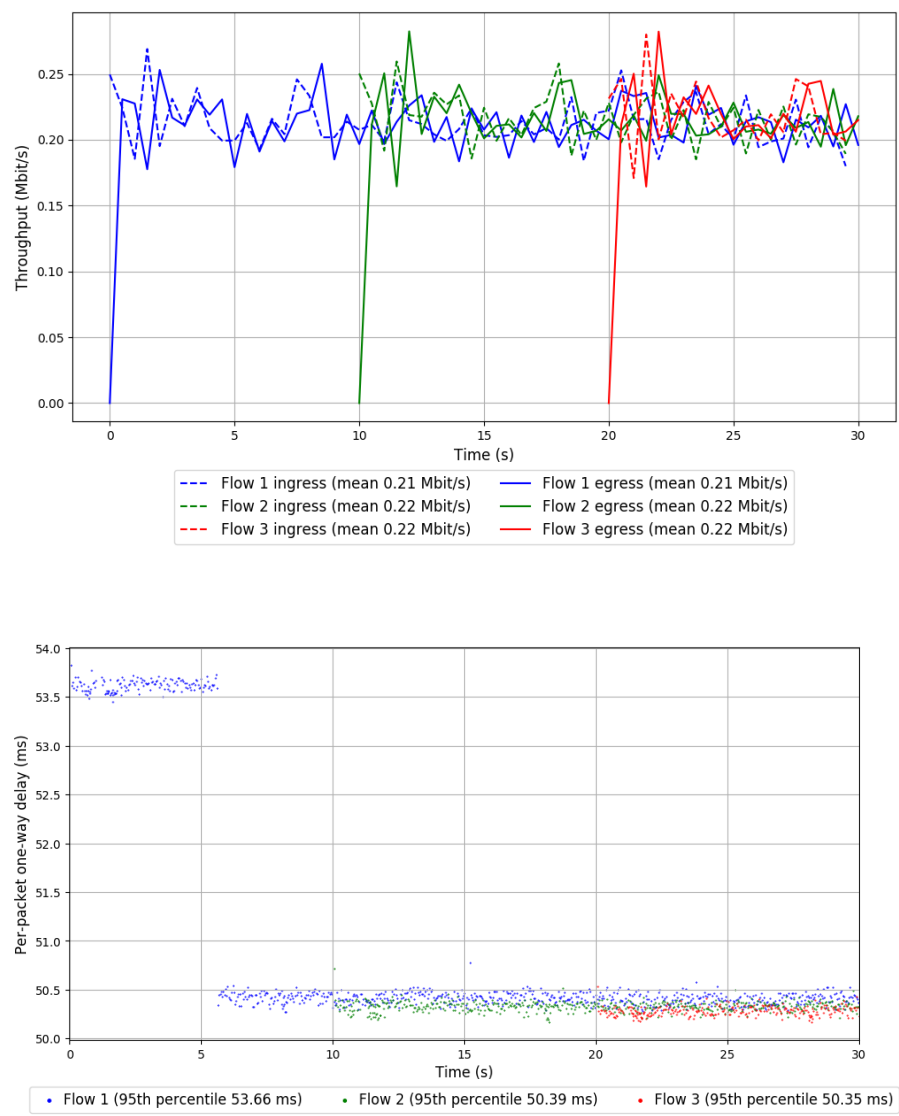


Run 10: Statistics of SCReAM

Start at: 2018-08-03 14:42:08  
End at: 2018-08-03 14:42:38  
Local clock offset: 0.137 ms  
Remote clock offset: -0.031 ms

# Below is generated by plot.py at 2018-08-03 17:31:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 53.620 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 53.661 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.394 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.355 ms  
Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

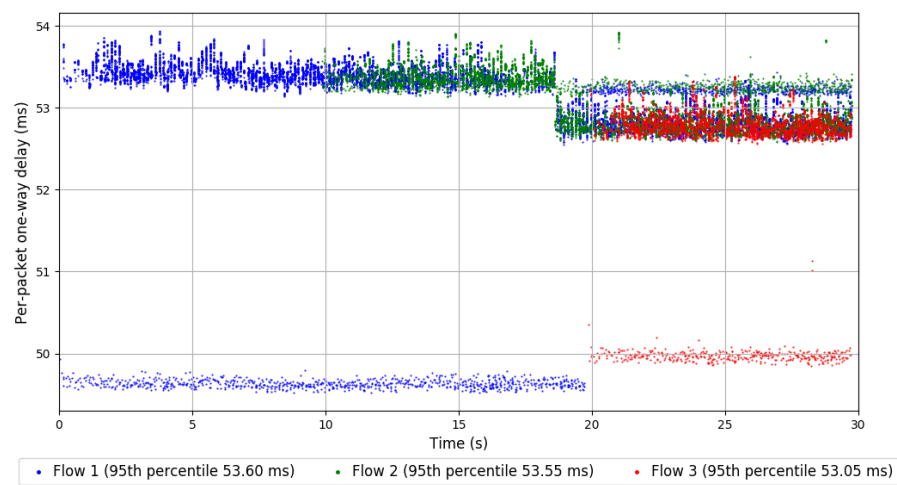
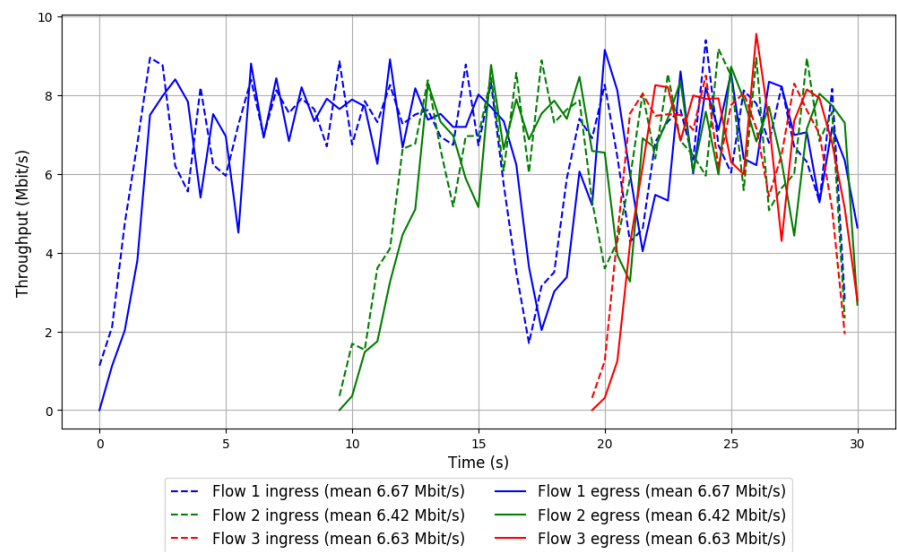


Run 1: Statistics of Sprout

Start at: 2018-08-03 10:40:14  
End at: 2018-08-03 10:40:44  
Local clock offset: 0.105 ms  
Remote clock offset: -0.433 ms

# Below is generated by plot.py at 2018-08-03 17:31:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 13.16 Mbit/s  
95th percentile per-packet one-way delay: 53.562 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 6.67 Mbit/s  
95th percentile per-packet one-way delay: 53.597 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 6.42 Mbit/s  
95th percentile per-packet one-way delay: 53.553 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 6.63 Mbit/s  
95th percentile per-packet one-way delay: 53.052 ms  
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

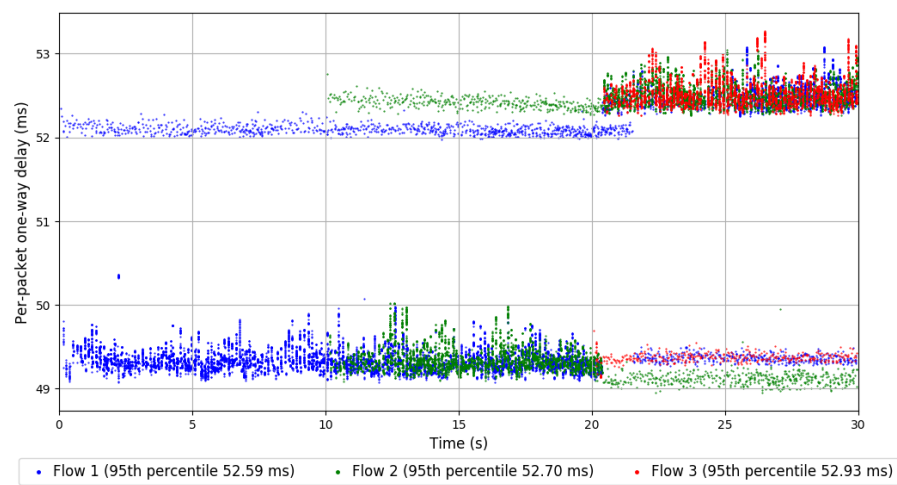
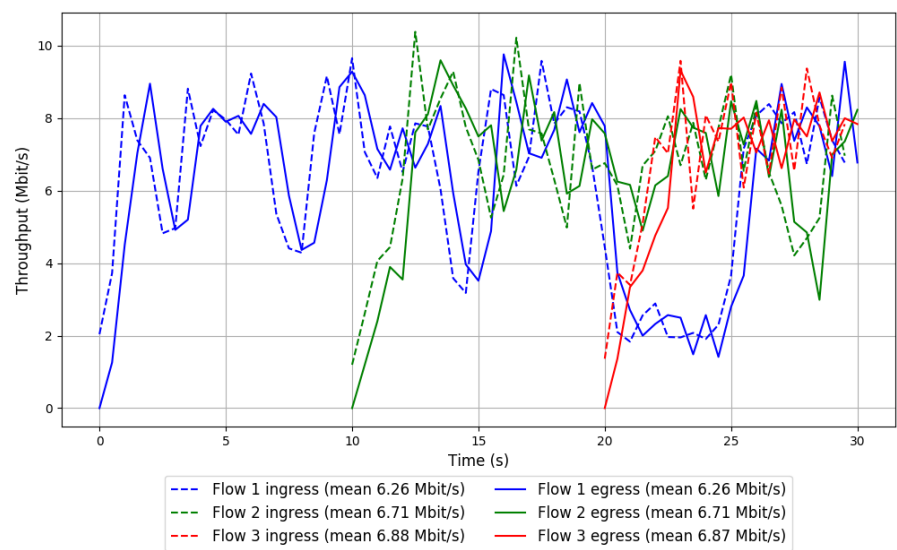


Run 2: Statistics of Sprout

Start at: 2018-08-03 11:05:43  
End at: 2018-08-03 11:06:13  
Local clock offset: -0.184 ms  
Remote clock offset: -1.464 ms

# Below is generated by plot.py at 2018-08-03 17:31:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 12.99 Mbit/s  
95th percentile per-packet one-way delay: 52.711 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 6.26 Mbit/s  
95th percentile per-packet one-way delay: 52.594 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 6.71 Mbit/s  
95th percentile per-packet one-way delay: 52.703 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 6.87 Mbit/s  
95th percentile per-packet one-way delay: 52.929 ms  
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

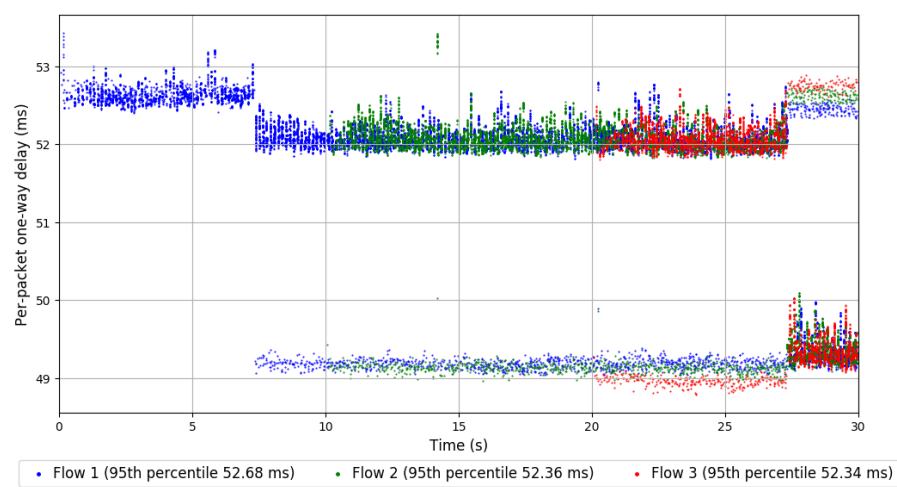
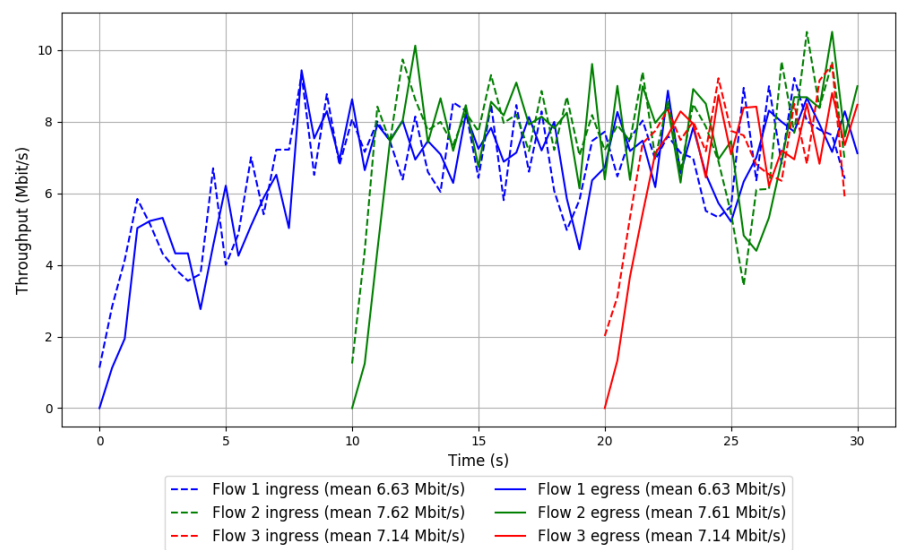


### Run 3: Statistics of Sprout

Start at: 2018-08-03 11:31:06  
End at: 2018-08-03 11:31:36  
Local clock offset: 0.001 ms  
Remote clock offset: -1.266 ms

```
# Below is generated by plot.py at 2018-08-03 17:31:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.05 Mbit/s
95th percentile per-packet one-way delay: 52.612 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.63 Mbit/s
95th percentile per-packet one-way delay: 52.681 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.61 Mbit/s
95th percentile per-packet one-way delay: 52.360 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.14 Mbit/s
95th percentile per-packet one-way delay: 52.345 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

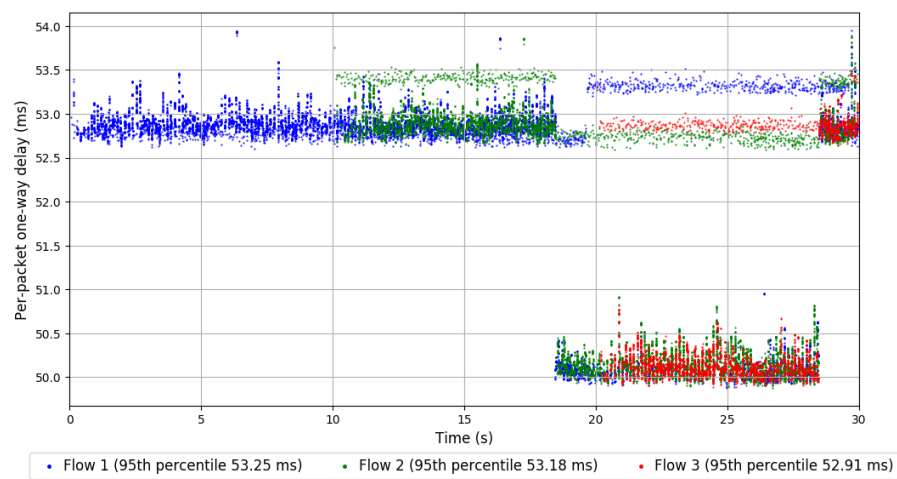
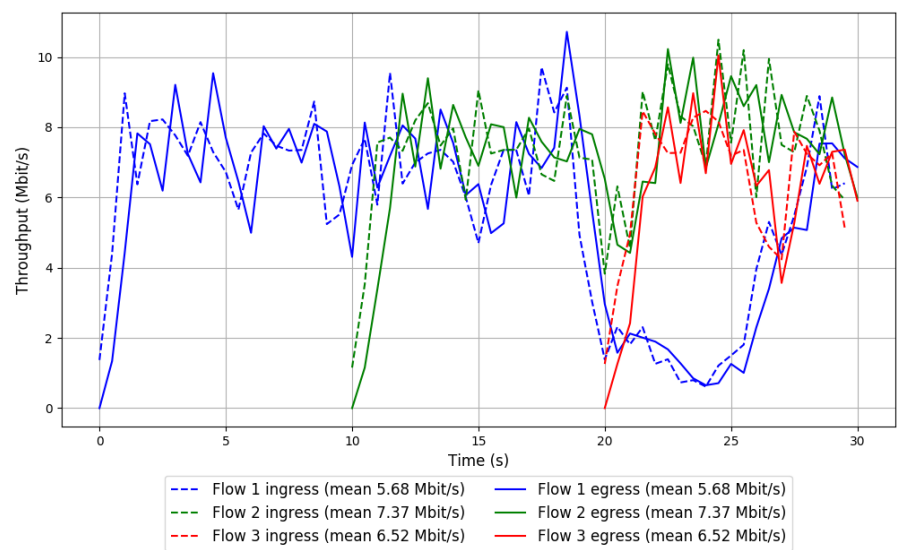


#### Run 4: Statistics of Sprout

Start at: 2018-08-03 11:56:25  
End at: 2018-08-03 11:56:55  
Local clock offset: 0.001 ms  
Remote clock offset: -0.441 ms

```
# Below is generated by plot.py at 2018-08-03 17:31:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.73 Mbit/s
95th percentile per-packet one-way delay: 53.179 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 5.68 Mbit/s
95th percentile per-packet one-way delay: 53.248 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.37 Mbit/s
95th percentile per-packet one-way delay: 53.178 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 6.52 Mbit/s
95th percentile per-packet one-way delay: 52.914 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

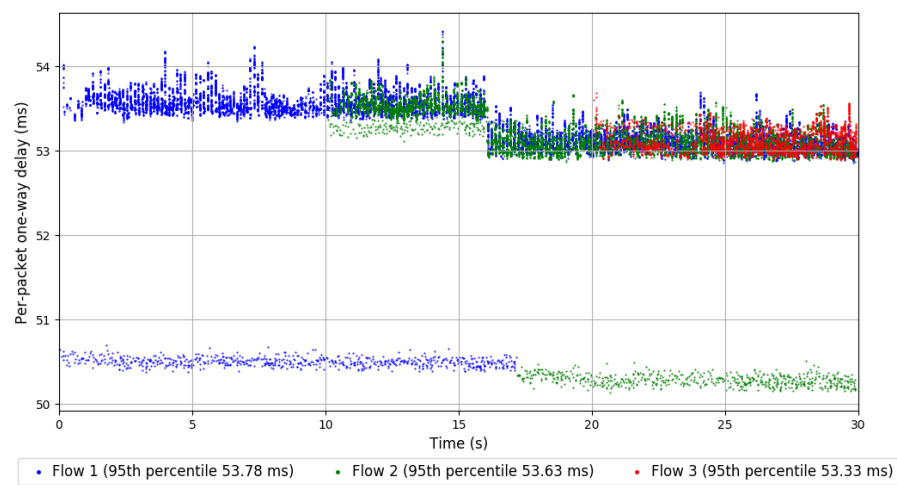
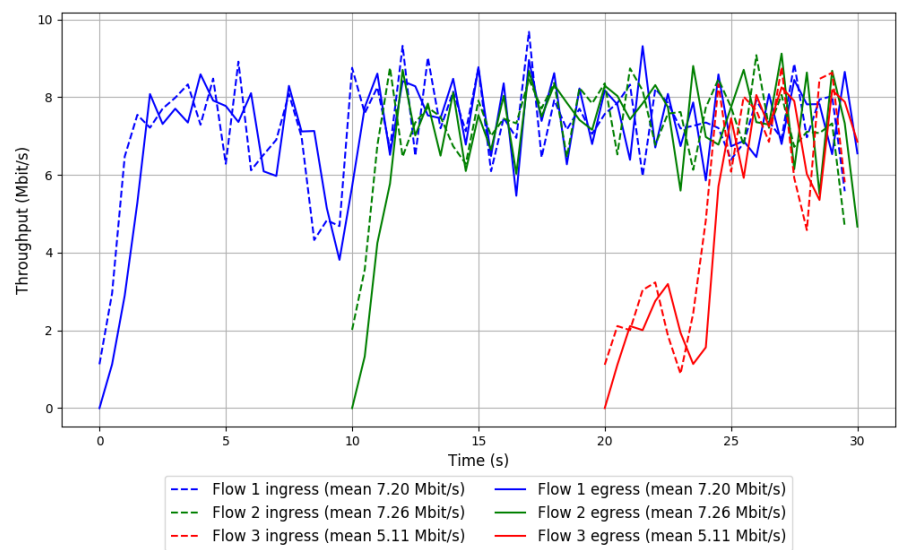


Run 5: Statistics of Sprout

Start at: 2018-08-03 12:21:47  
End at: 2018-08-03 12:22:17  
Local clock offset: 0.012 ms  
Remote clock offset: -0.192 ms

# Below is generated by plot.py at 2018-08-03 17:31:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 13.70 Mbit/s  
95th percentile per-packet one-way delay: 53.715 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 7.20 Mbit/s  
95th percentile per-packet one-way delay: 53.780 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 7.26 Mbit/s  
95th percentile per-packet one-way delay: 53.635 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 5.11 Mbit/s  
95th percentile per-packet one-way delay: 53.332 ms  
Loss rate: 0.00%

Run 5: Report of Sprout — Data Link

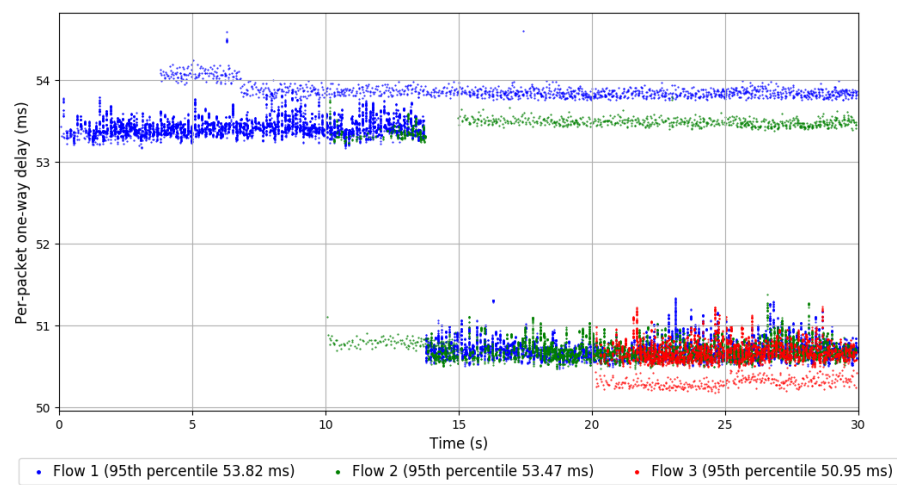
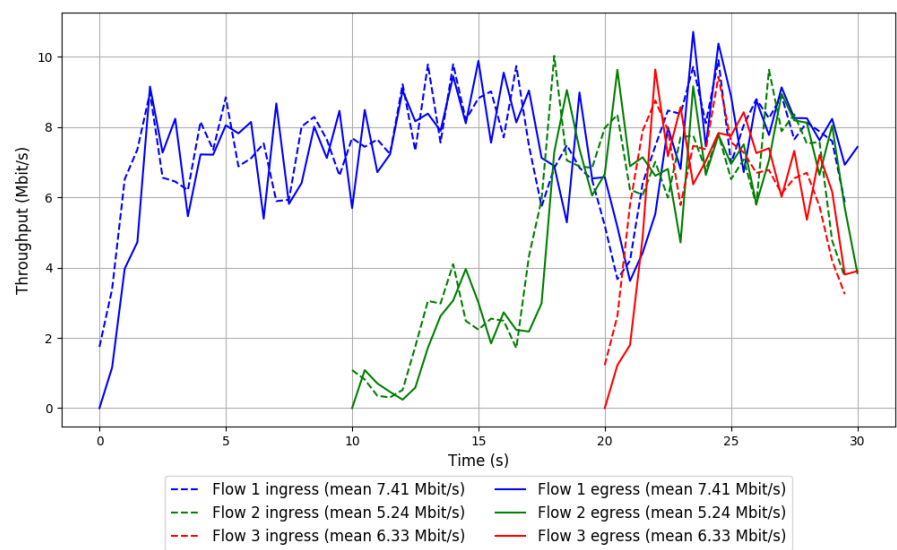


Run 6: Statistics of Sprout

Start at: 2018-08-03 12:46:49  
End at: 2018-08-03 12:47:19  
Local clock offset: -0.098 ms  
Remote clock offset: -0.014 ms

```
# Below is generated by plot.py at 2018-08-03 17:31:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.98 Mbit/s
95th percentile per-packet one-way delay: 53.637 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.41 Mbit/s
95th percentile per-packet one-way delay: 53.821 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 5.24 Mbit/s
95th percentile per-packet one-way delay: 53.472 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.33 Mbit/s
95th percentile per-packet one-way delay: 50.947 ms
Loss rate: 0.00%
```

Run 6: Report of Sprout — Data Link

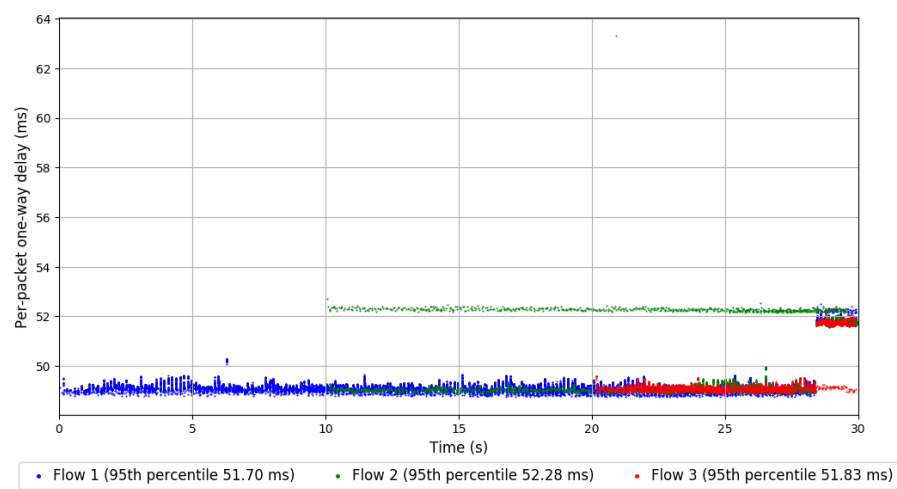
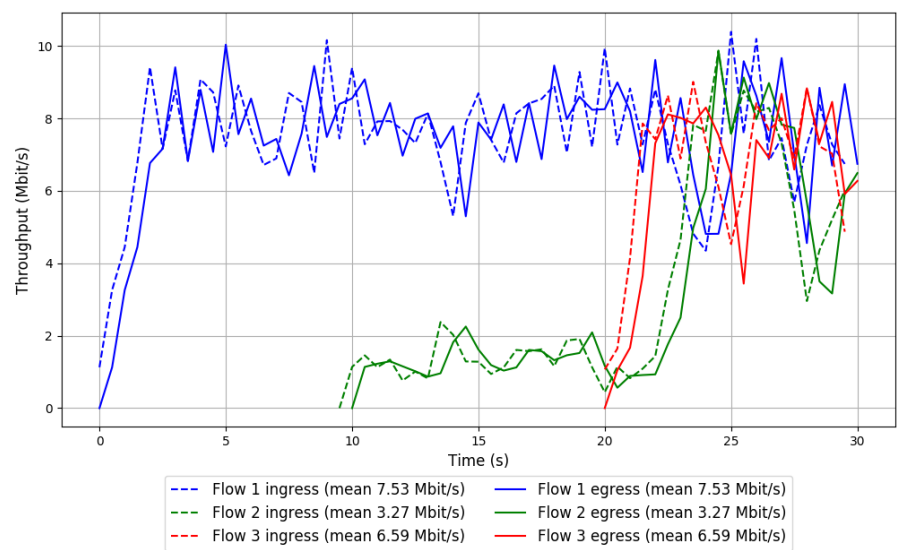


Run 7: Statistics of Sprout

Start at: 2018-08-03 13:12:15  
End at: 2018-08-03 13:12:45  
Local clock offset: 0.041 ms  
Remote clock offset: -1.49 ms

# Below is generated by plot.py at 2018-08-03 17:31:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 11.87 Mbit/s  
95th percentile per-packet one-way delay: 51.837 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 7.53 Mbit/s  
95th percentile per-packet one-way delay: 51.701 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 3.27 Mbit/s  
95th percentile per-packet one-way delay: 52.280 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 6.59 Mbit/s  
95th percentile per-packet one-way delay: 51.825 ms  
Loss rate: 0.00%

Run 7: Report of Sprout — Data Link

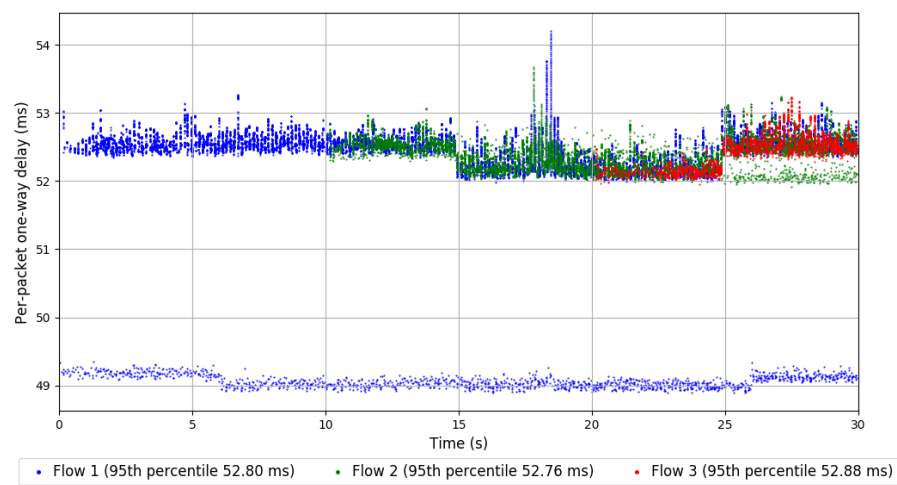
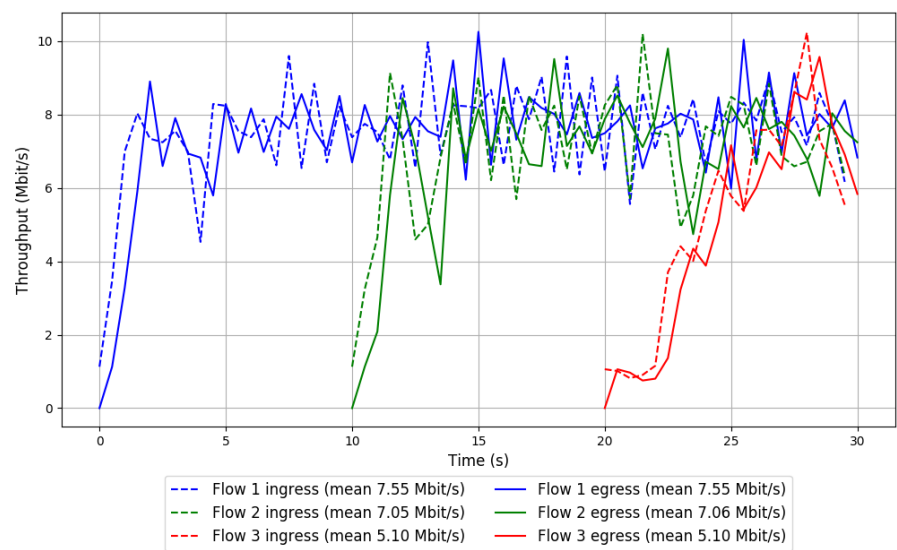


Run 8: Statistics of Sprout

Start at: 2018-08-03 13:37:28  
End at: 2018-08-03 13:37:58  
Local clock offset: -0.007 ms  
Remote clock offset: -1.38 ms

```
# Below is generated by plot.py at 2018-08-03 17:31:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.92 Mbit/s
95th percentile per-packet one-way delay: 52.798 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.55 Mbit/s
95th percentile per-packet one-way delay: 52.801 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.06 Mbit/s
95th percentile per-packet one-way delay: 52.761 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 5.10 Mbit/s
95th percentile per-packet one-way delay: 52.877 ms
Loss rate: 0.00%
```

Run 8: Report of Sprout — Data Link

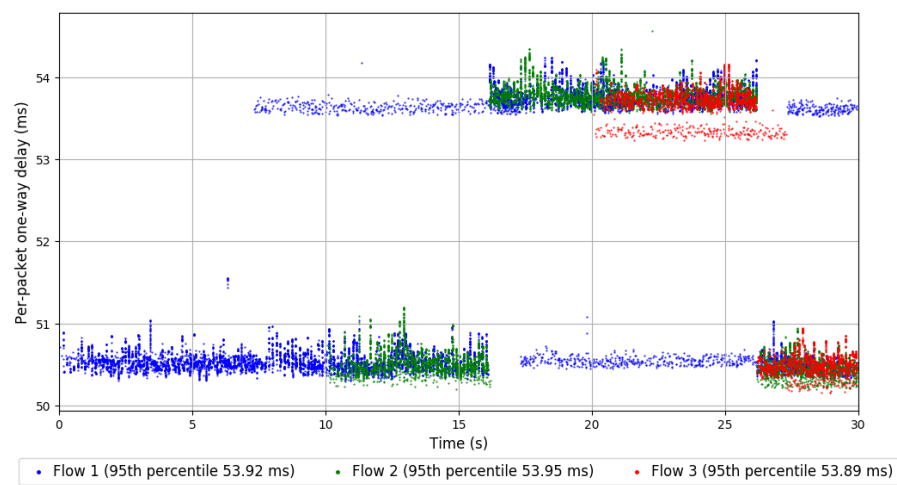
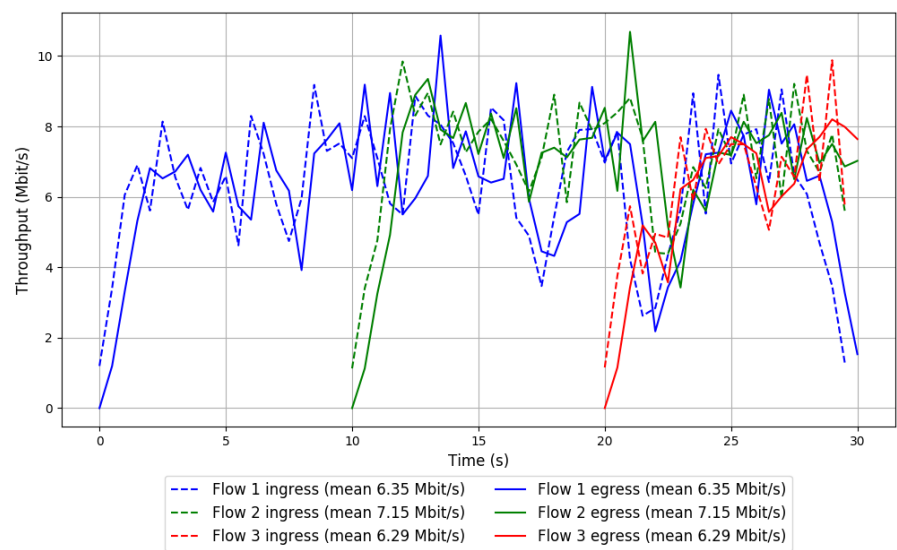


Run 9: Statistics of Sprout

Start at: 2018-08-03 14:02:27  
End at: 2018-08-03 14:02:57  
Local clock offset: 0.03 ms  
Remote clock offset: -0.144 ms

```
# Below is generated by plot.py at 2018-08-03 17:31:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.19 Mbit/s
95th percentile per-packet one-way delay: 53.925 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.35 Mbit/s
95th percentile per-packet one-way delay: 53.917 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.15 Mbit/s
95th percentile per-packet one-way delay: 53.947 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.29 Mbit/s
95th percentile per-packet one-way delay: 53.894 ms
Loss rate: 0.00%
```

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-08-03 14:27:52

End at: 2018-08-03 14:28:22

Local clock offset: 0.075 ms

Remote clock offset: 0.046 ms

# Below is generated by plot.py at 2018-08-03 17:31:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 13.42 Mbit/s

95th percentile per-packet one-way delay: 53.987 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 53.917 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 4.94 Mbit/s

95th percentile per-packet one-way delay: 54.026 ms

Loss rate: 0.00%

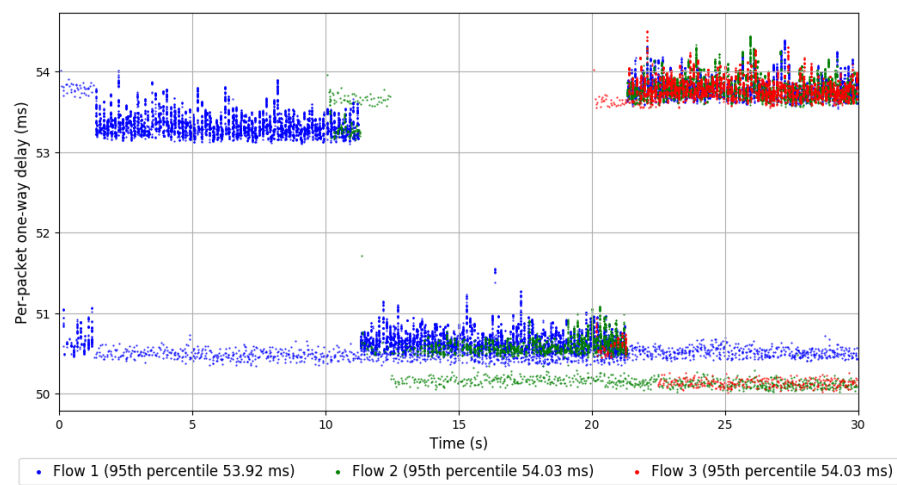
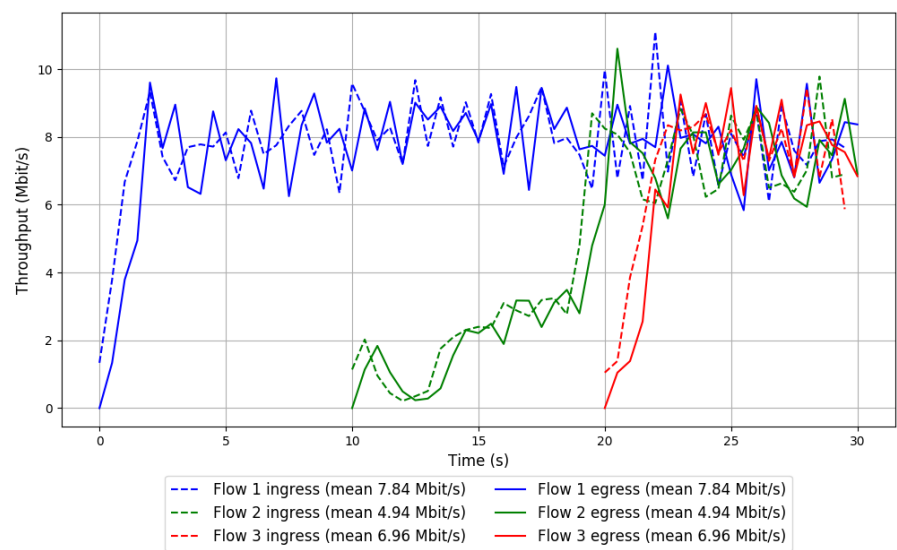
-- Flow 3:

Average throughput: 6.96 Mbit/s

95th percentile per-packet one-way delay: 54.031 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

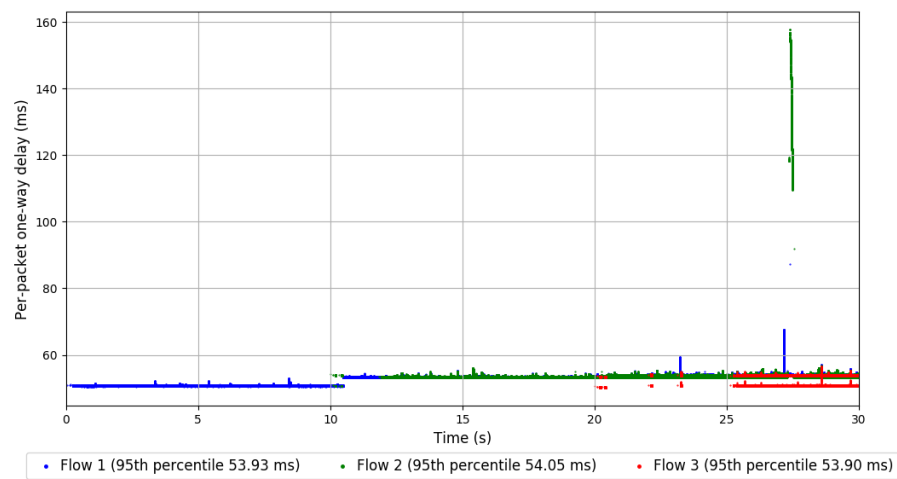
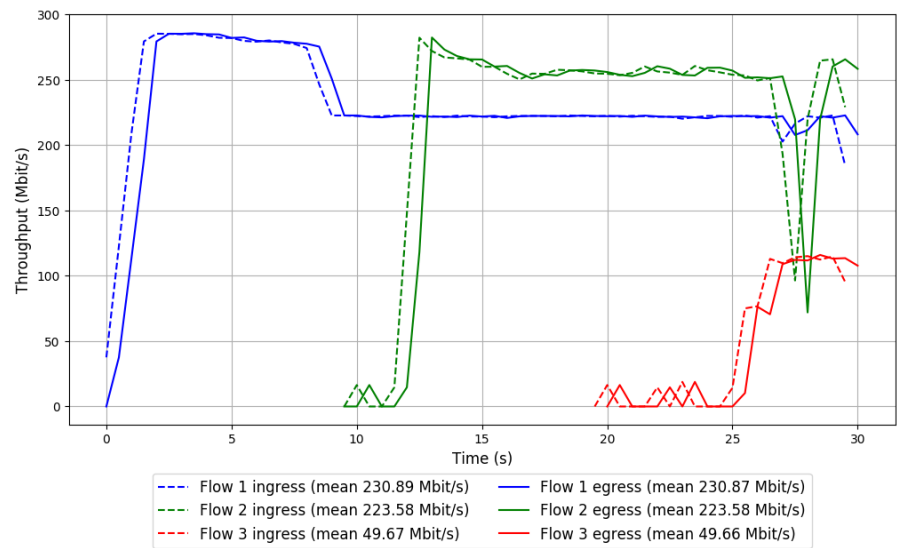


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-08-03 10:58:13
End at: 2018-08-03 10:58:43
Local clock offset: -0.117 ms
Remote clock offset: 0.148 ms

# Below is generated by plot.py at 2018-08-03 17:33:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 396.67 Mbit/s
95th percentile per-packet one-way delay: 53.941 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 230.87 Mbit/s
95th percentile per-packet one-way delay: 53.928 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 223.58 Mbit/s
95th percentile per-packet one-way delay: 54.052 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 49.66 Mbit/s
95th percentile per-packet one-way delay: 53.901 ms
Loss rate: 0.00%
```

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

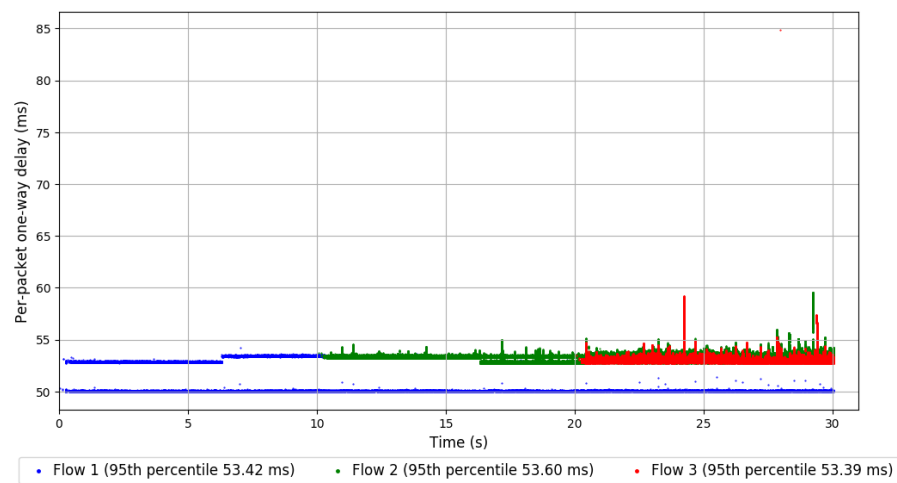
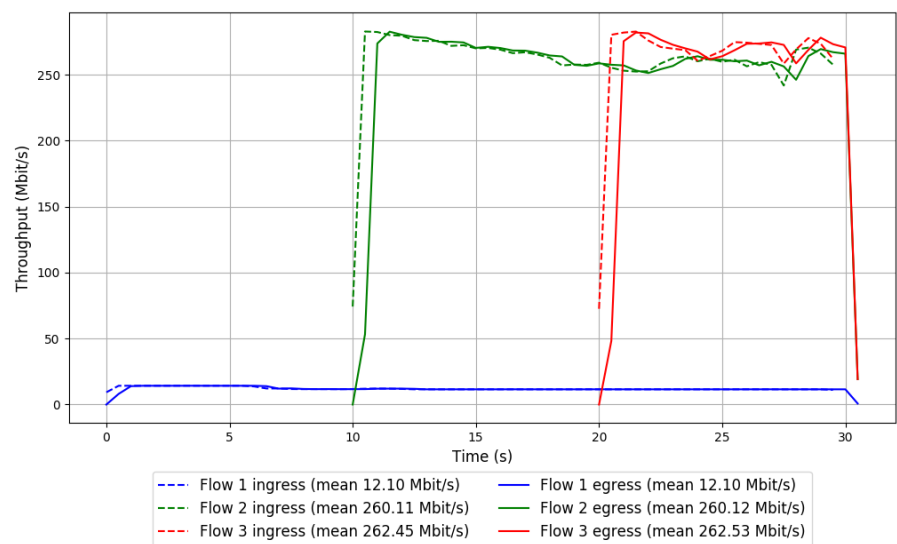


Run 2: Statistics of TaoVA-100x

Start at: 2018-08-03 11:23:47  
End at: 2018-08-03 11:24:17  
Local clock offset: 0.119 ms  
Remote clock offset: -0.193 ms

# Below is generated by plot.py at 2018-08-03 17:33:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 272.53 Mbit/s  
95th percentile per-packet one-way delay: 53.546 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 12.10 Mbit/s  
95th percentile per-packet one-way delay: 53.424 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 260.12 Mbit/s  
95th percentile per-packet one-way delay: 53.602 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 262.53 Mbit/s  
95th percentile per-packet one-way delay: 53.393 ms  
Loss rate: 0.02%

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

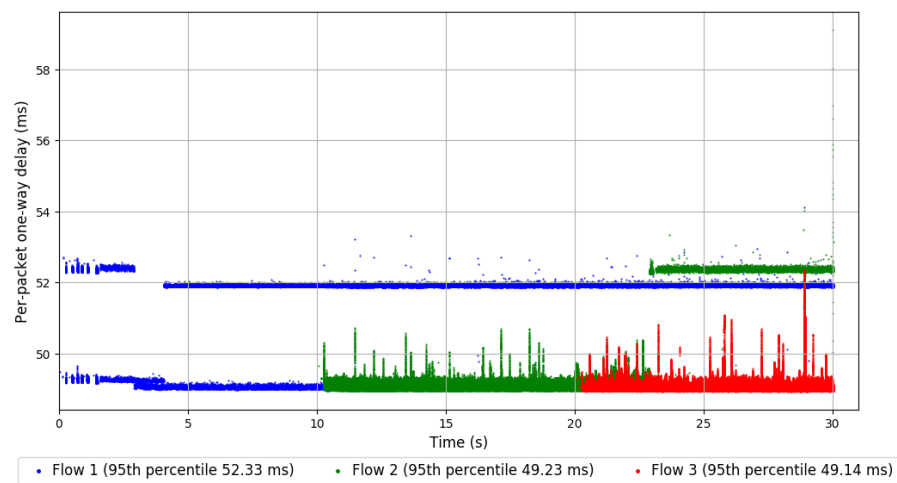
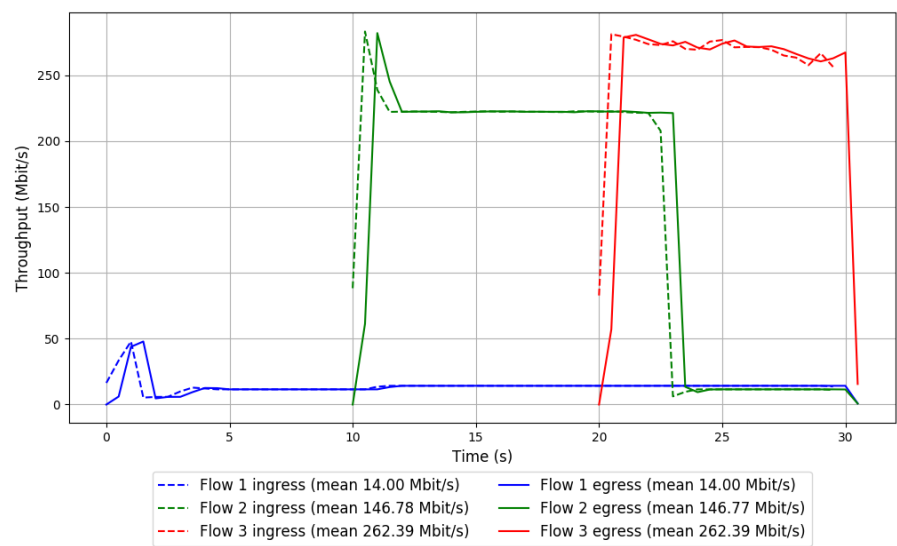


Run 3: Statistics of TaoVA-100x

Start at: 2018-08-03 11:49:20  
End at: 2018-08-03 11:49:50  
Local clock offset: -0.147 ms  
Remote clock offset: -1.459 ms

# Below is generated by plot.py at 2018-08-03 17:33:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 198.93 Mbit/s  
95th percentile per-packet one-way delay: 49.410 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 14.00 Mbit/s  
95th percentile per-packet one-way delay: 52.331 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 146.77 Mbit/s  
95th percentile per-packet one-way delay: 49.233 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 262.39 Mbit/s  
95th percentile per-packet one-way delay: 49.141 ms  
Loss rate: 0.00%

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

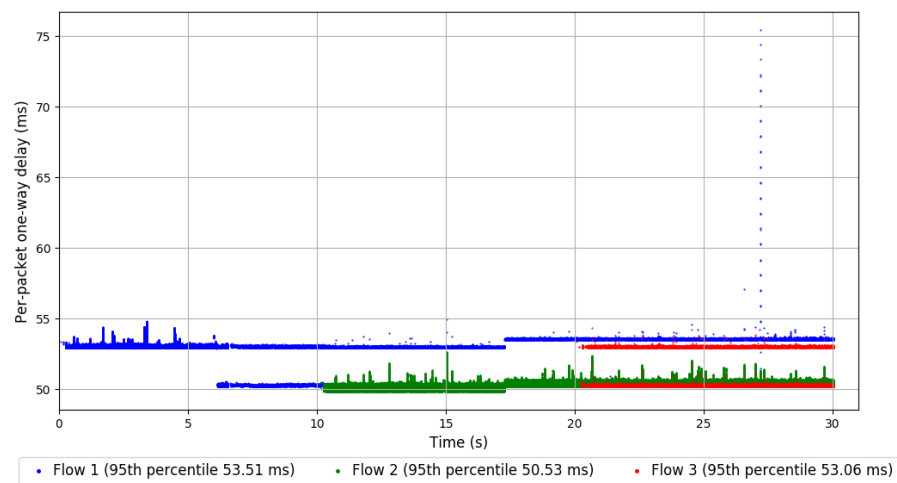
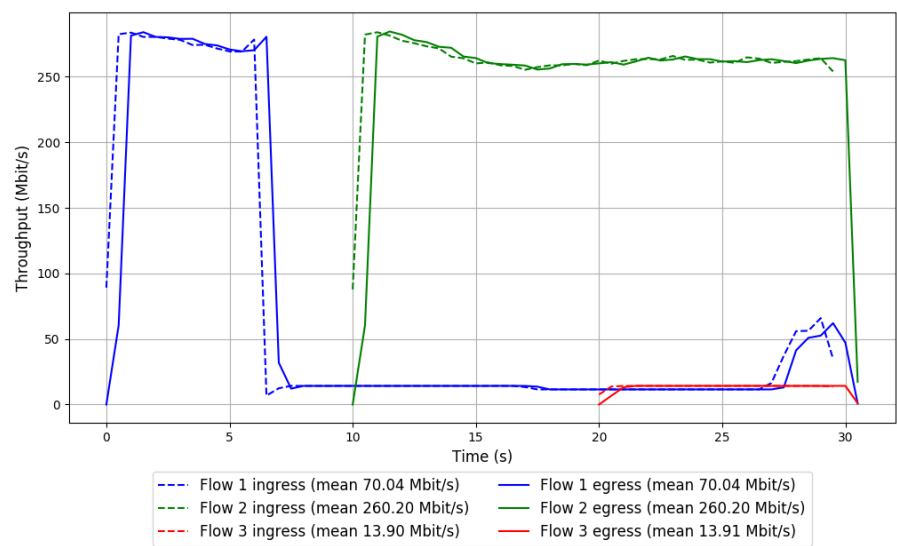


Run 4: Statistics of TaoVA-100x

Start at: 2018-08-03 12:14:37  
End at: 2018-08-03 12:15:07  
Local clock offset: 0.072 ms  
Remote clock offset: -0.058 ms

# Below is generated by plot.py at 2018-08-03 17:33:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 248.00 Mbit/s  
95th percentile per-packet one-way delay: 53.042 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 70.04 Mbit/s  
95th percentile per-packet one-way delay: 53.512 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 260.20 Mbit/s  
95th percentile per-packet one-way delay: 50.533 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 13.91 Mbit/s  
95th percentile per-packet one-way delay: 53.058 ms  
Loss rate: 0.00%

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

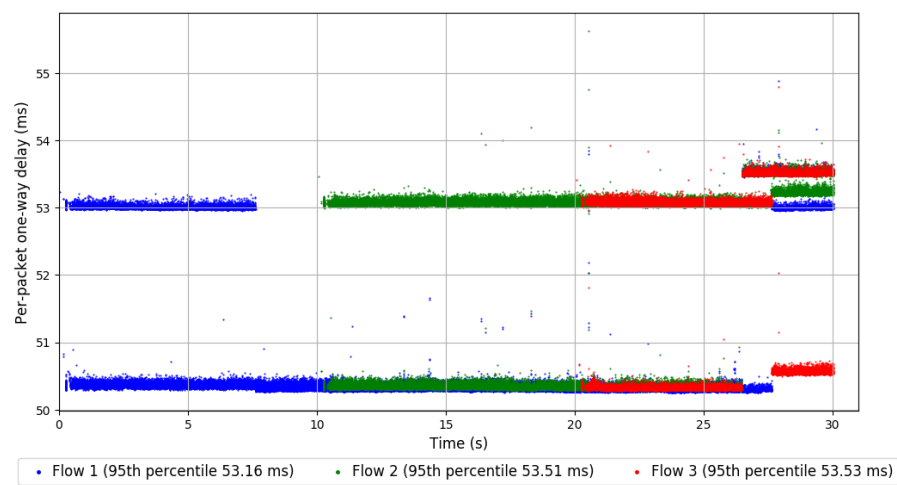
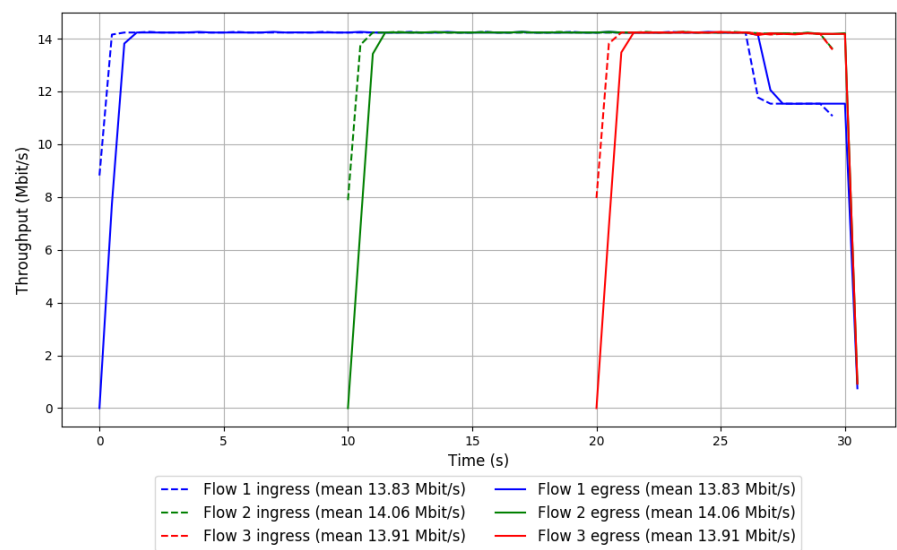


Run 5: Statistics of TaoVA-100x

Start at: 2018-08-03 12:39:57  
End at: 2018-08-03 12:40:27  
Local clock offset: -0.039 ms  
Remote clock offset: -0.116 ms

# Below is generated by plot.py at 2018-08-03 17:33:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 27.82 Mbit/s  
95th percentile per-packet one-way delay: 53.505 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 13.83 Mbit/s  
95th percentile per-packet one-way delay: 53.163 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 14.06 Mbit/s  
95th percentile per-packet one-way delay: 53.508 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 13.91 Mbit/s  
95th percentile per-packet one-way delay: 53.527 ms  
Loss rate: 0.00%

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

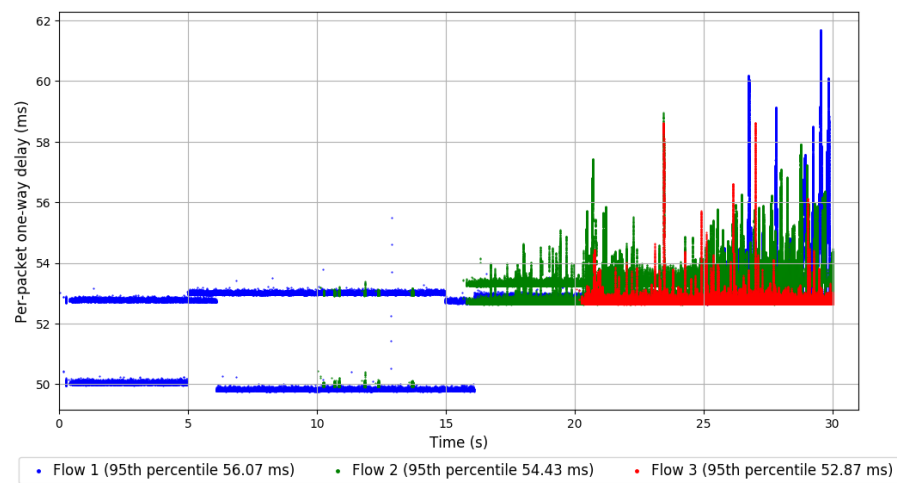
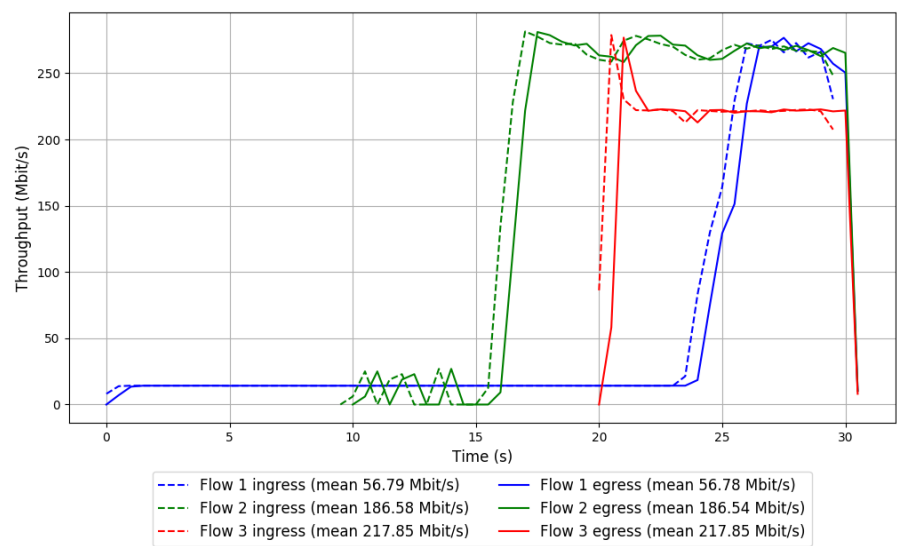


Run 6: Statistics of TaoVA-100x

Start at: 2018-08-03 13:04:48  
End at: 2018-08-03 13:05:18  
Local clock offset: 0.195 ms  
Remote clock offset: -0.241 ms

# Below is generated by plot.py at 2018-08-03 17:33:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 253.52 Mbit/s  
95th percentile per-packet one-way delay: 54.274 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 56.78 Mbit/s  
95th percentile per-packet one-way delay: 56.074 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 186.54 Mbit/s  
95th percentile per-packet one-way delay: 54.429 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 217.85 Mbit/s  
95th percentile per-packet one-way delay: 52.869 ms  
Loss rate: 0.03%

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

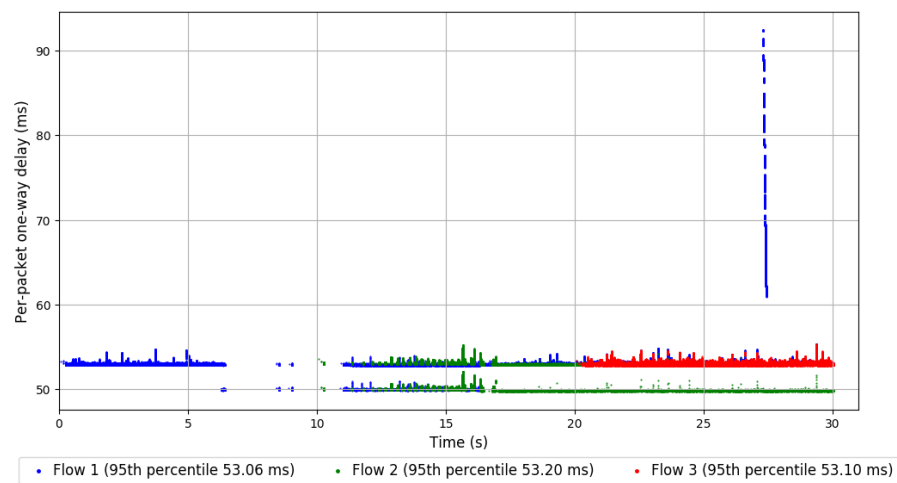
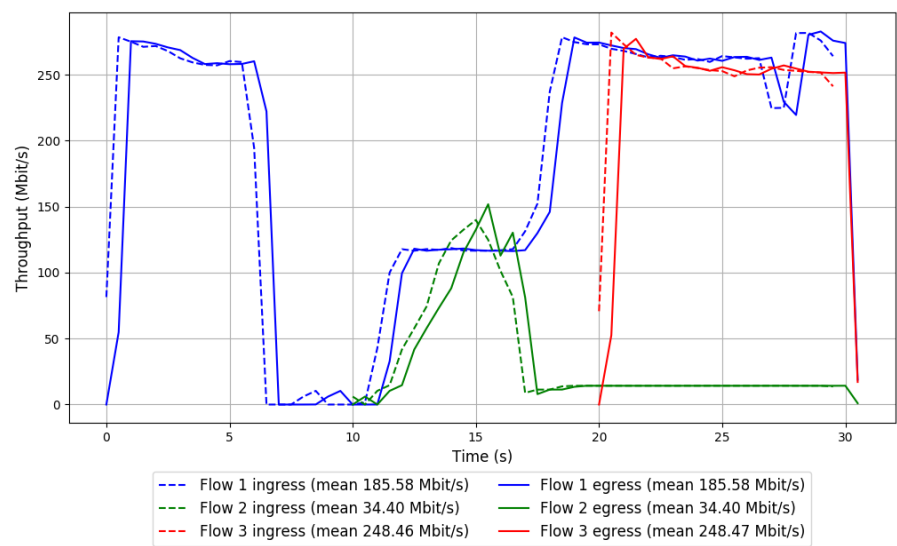


Run 7: Statistics of TaoVA-100x

Start at: 2018-08-03 13:30:07  
End at: 2018-08-03 13:30:37  
Local clock offset: 0.067 ms  
Remote clock offset: -0.378 ms

# Below is generated by plot.py at 2018-08-03 17:33:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 291.06 Mbit/s  
95th percentile per-packet one-way delay: 53.099 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 185.58 Mbit/s  
95th percentile per-packet one-way delay: 53.060 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 34.40 Mbit/s  
95th percentile per-packet one-way delay: 53.201 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 248.47 Mbit/s  
95th percentile per-packet one-way delay: 53.103 ms  
Loss rate: 0.00%

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

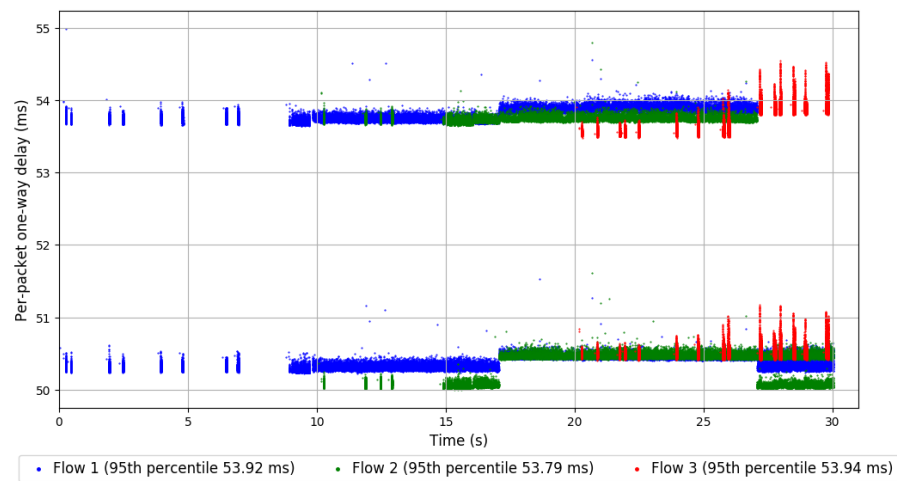
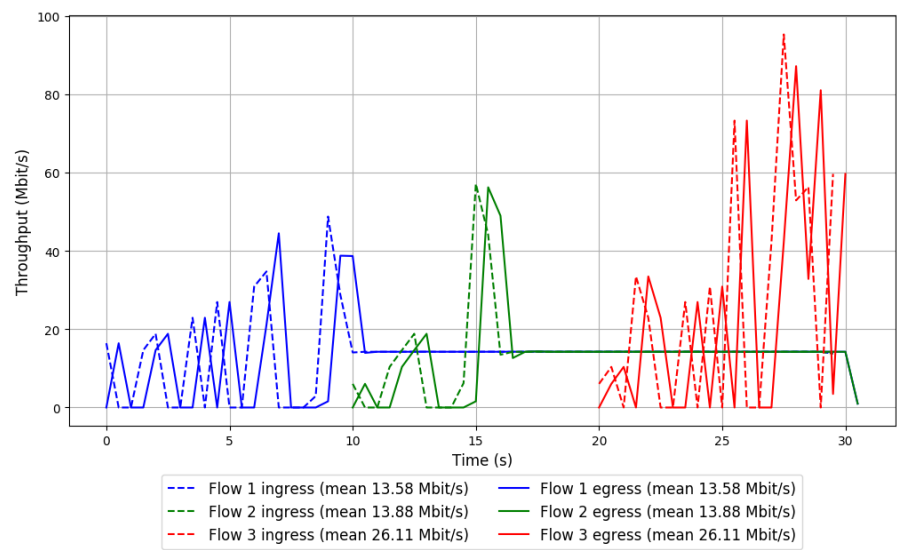


Run 8: Statistics of TaoVA-100x

Start at: 2018-08-03 13:55:36  
End at: 2018-08-03 13:56:06  
Local clock offset: -0.136 ms  
Remote clock offset: -0.162 ms

# Below is generated by plot.py at 2018-08-03 17:33:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 31.34 Mbit/s  
95th percentile per-packet one-way delay: 53.912 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 13.58 Mbit/s  
95th percentile per-packet one-way delay: 53.920 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 13.88 Mbit/s  
95th percentile per-packet one-way delay: 53.790 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 26.11 Mbit/s  
95th percentile per-packet one-way delay: 53.938 ms  
Loss rate: 0.00%

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

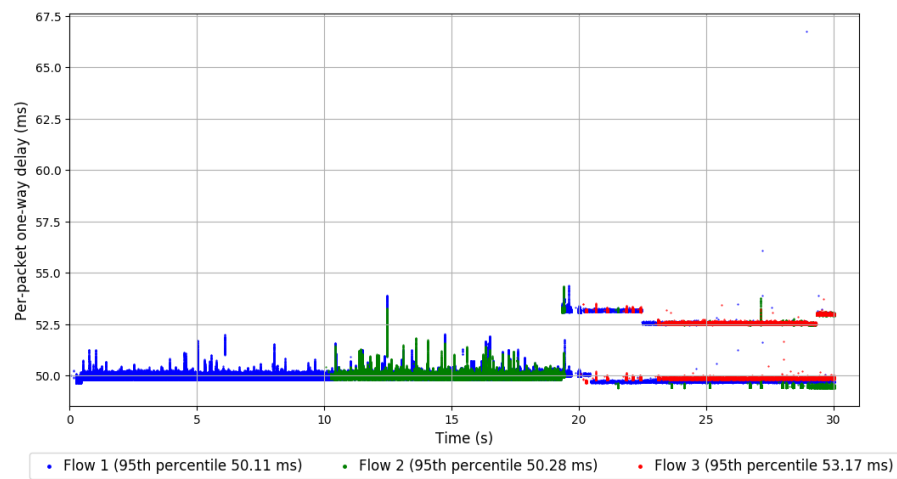
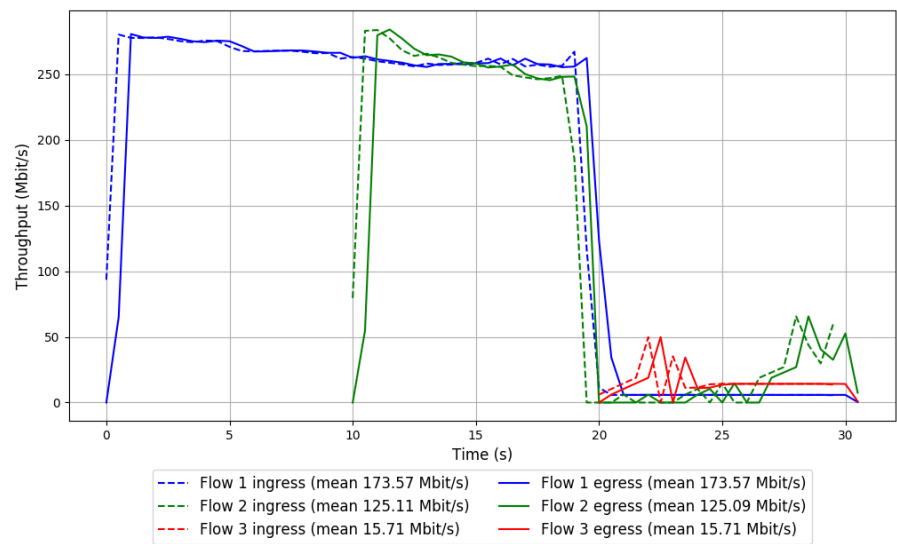


Run 9: Statistics of TaoVA-100x

Start at: 2018-08-03 14:20:44  
End at: 2018-08-03 14:21:14  
Local clock offset: 0.143 ms  
Remote clock offset: -0.491 ms

# Below is generated by plot.py at 2018-08-03 17:33:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 262.08 Mbit/s  
95th percentile per-packet one-way delay: 50.196 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 173.57 Mbit/s  
95th percentile per-packet one-way delay: 50.114 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 125.09 Mbit/s  
95th percentile per-packet one-way delay: 50.282 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 15.71 Mbit/s  
95th percentile per-packet one-way delay: 53.174 ms  
Loss rate: 0.02%

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

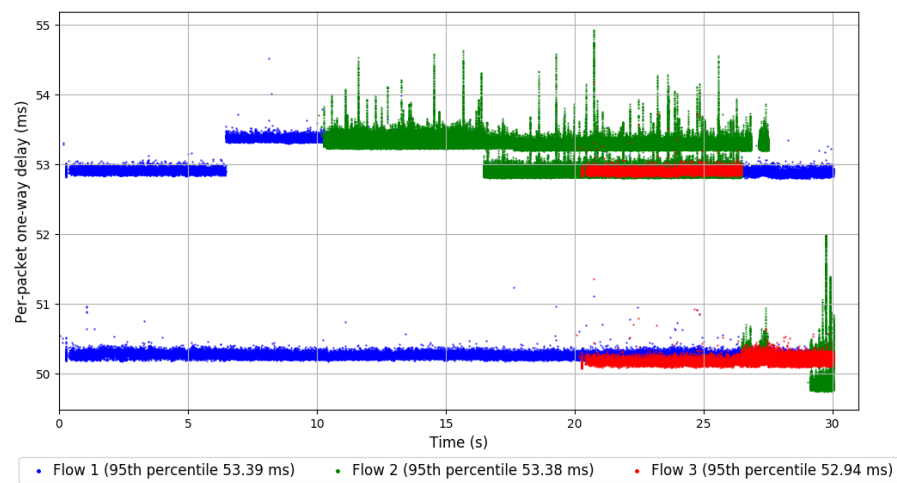
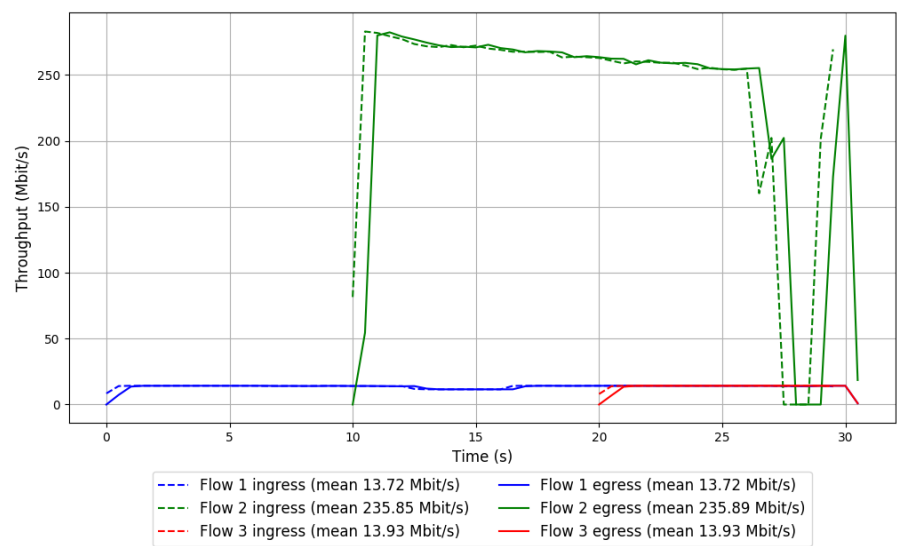


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-08-03 14:45:57
End at: 2018-08-03 14:46:27
Local clock offset: 0.023 ms
Remote clock offset: -0.228 ms

# Below is generated by plot.py at 2018-08-03 17:33:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 175.45 Mbit/s
95th percentile per-packet one-way delay: 53.383 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.72 Mbit/s
95th percentile per-packet one-way delay: 53.388 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 235.89 Mbit/s
95th percentile per-packet one-way delay: 53.384 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 13.93 Mbit/s
95th percentile per-packet one-way delay: 52.942 ms
Loss rate: 0.00%
```

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

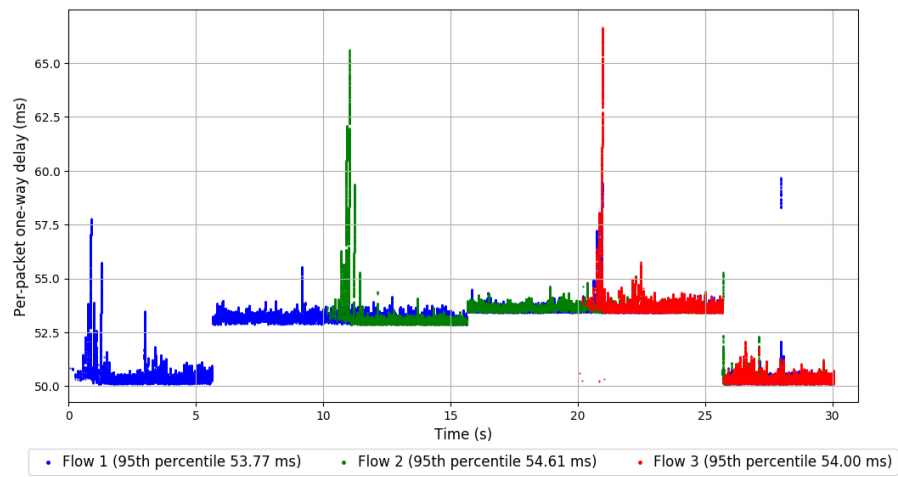
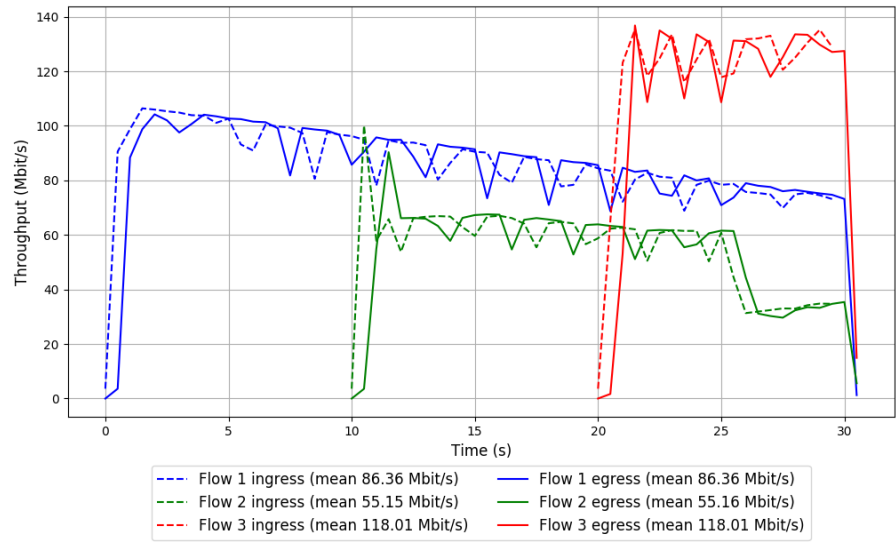


Run 1: Statistics of TCP Vegas

Start at: 2018-08-03 10:38:58  
End at: 2018-08-03 10:39:28  
Local clock offset: -0.128 ms  
Remote clock offset: -0.338 ms

# Below is generated by plot.py at 2018-08-03 17:33:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 162.30 Mbit/s  
95th percentile per-packet one-way delay: 53.947 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 86.36 Mbit/s  
95th percentile per-packet one-way delay: 53.773 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 55.16 Mbit/s  
95th percentile per-packet one-way delay: 54.609 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 118.01 Mbit/s  
95th percentile per-packet one-way delay: 53.998 ms  
Loss rate: 0.00%

# Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-08-03 11:04:24

End at: 2018-08-03 11:04:54

Local clock offset: 0.166 ms

Remote clock offset: -0.45 ms

# Below is generated by plot.py at 2018-08-03 17:33:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 214.08 Mbit/s

95th percentile per-packet one-way delay: 53.736 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 129.80 Mbit/s

95th percentile per-packet one-way delay: 53.713 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 79.87 Mbit/s

95th percentile per-packet one-way delay: 53.423 ms

Loss rate: 0.00%

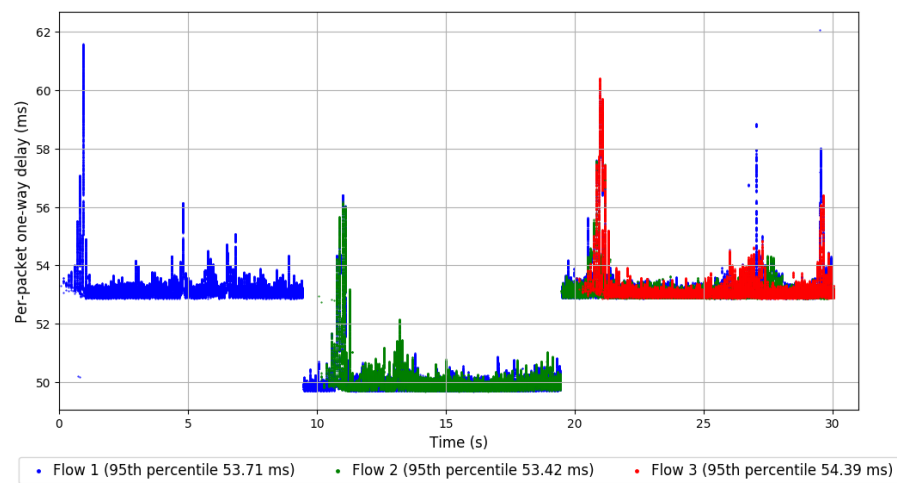
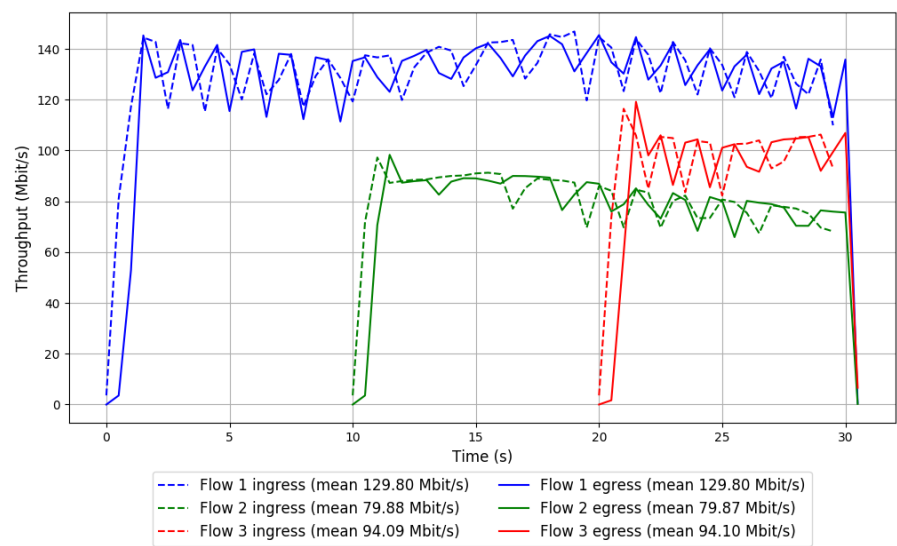
-- Flow 3:

Average throughput: 94.10 Mbit/s

95th percentile per-packet one-way delay: 54.392 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link

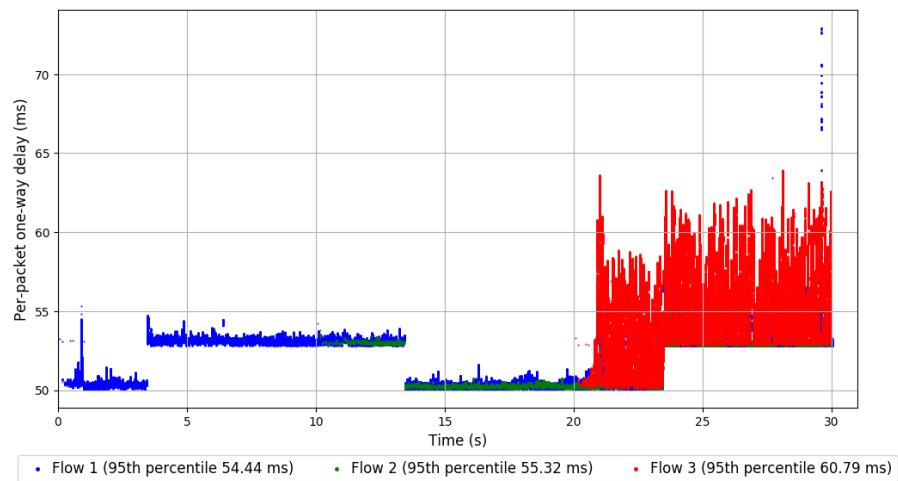
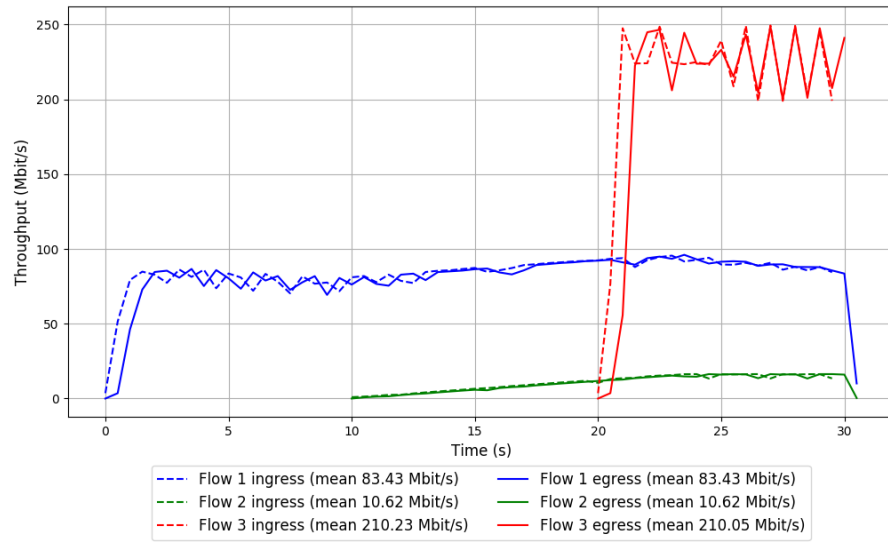


Run 3: Statistics of TCP Vegas

Start at: 2018-08-03 11:29:50  
End at: 2018-08-03 11:30:20  
Local clock offset: 0.049 ms  
Remote clock offset: -0.202 ms

# Below is generated by plot.py at 2018-08-03 17:33:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 159.89 Mbit/s  
95th percentile per-packet one-way delay: 59.822 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 83.43 Mbit/s  
95th percentile per-packet one-way delay: 54.438 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 10.62 Mbit/s  
95th percentile per-packet one-way delay: 55.321 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 210.05 Mbit/s  
95th percentile per-packet one-way delay: 60.790 ms  
Loss rate: 0.00%

### Run 3: Report of TCP Vegas — Data Link

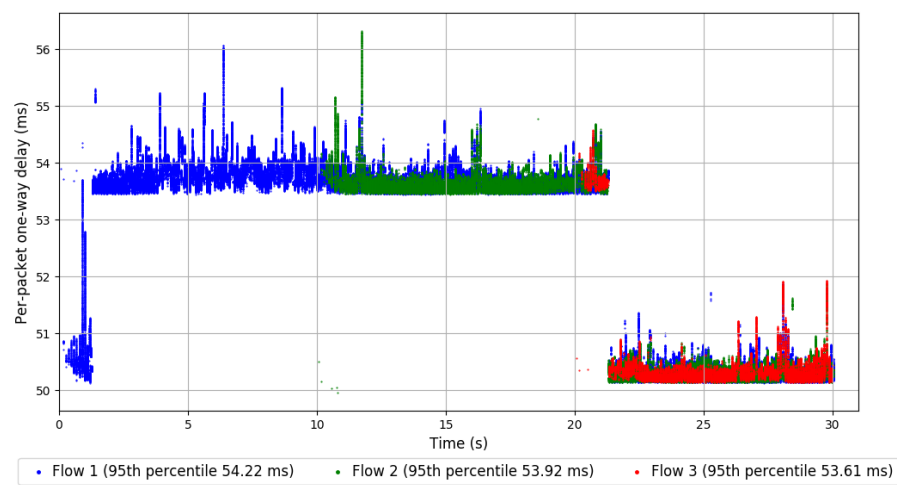
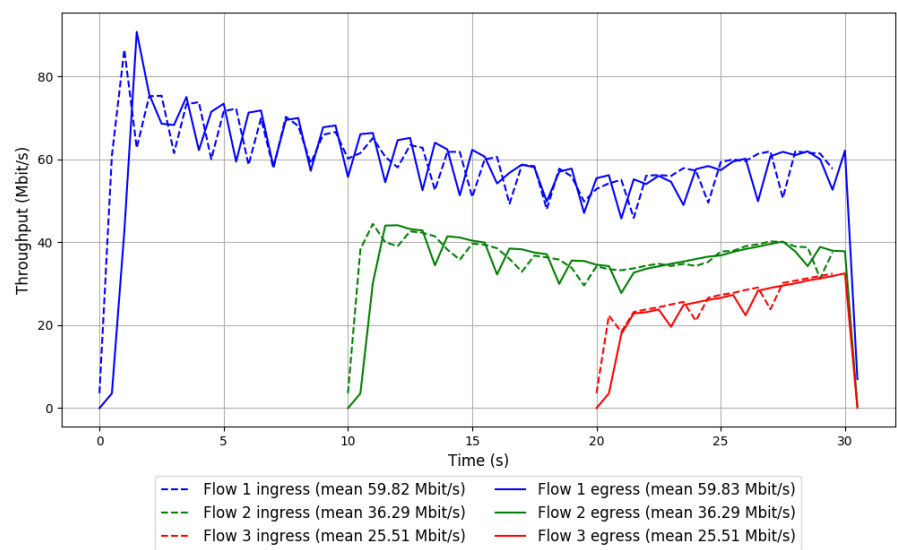


Run 4: Statistics of TCP Vegas

Start at: 2018-08-03 11:55:12  
End at: 2018-08-03 11:55:42  
Local clock offset: -0.13 ms  
Remote clock offset: -0.267 ms

# Below is generated by plot.py at 2018-08-03 17:33:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.44 Mbit/s  
95th percentile per-packet one-way delay: 54.140 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 59.83 Mbit/s  
95th percentile per-packet one-way delay: 54.219 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 36.29 Mbit/s  
95th percentile per-packet one-way delay: 53.916 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 25.51 Mbit/s  
95th percentile per-packet one-way delay: 53.608 ms  
Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-08-03 12:20:30

End at: 2018-08-03 12:21:00

Local clock offset: 0.017 ms

Remote clock offset: 1.116 ms

# Below is generated by plot.py at 2018-08-03 17:34:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 165.69 Mbit/s

95th percentile per-packet one-way delay: 54.659 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 90.33 Mbit/s

95th percentile per-packet one-way delay: 54.612 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 100.98 Mbit/s

95th percentile per-packet one-way delay: 54.736 ms

Loss rate: 0.00%

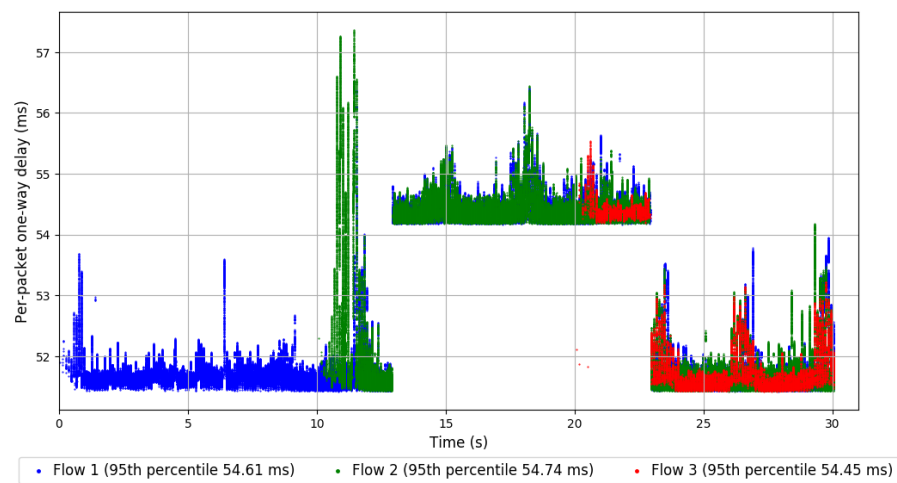
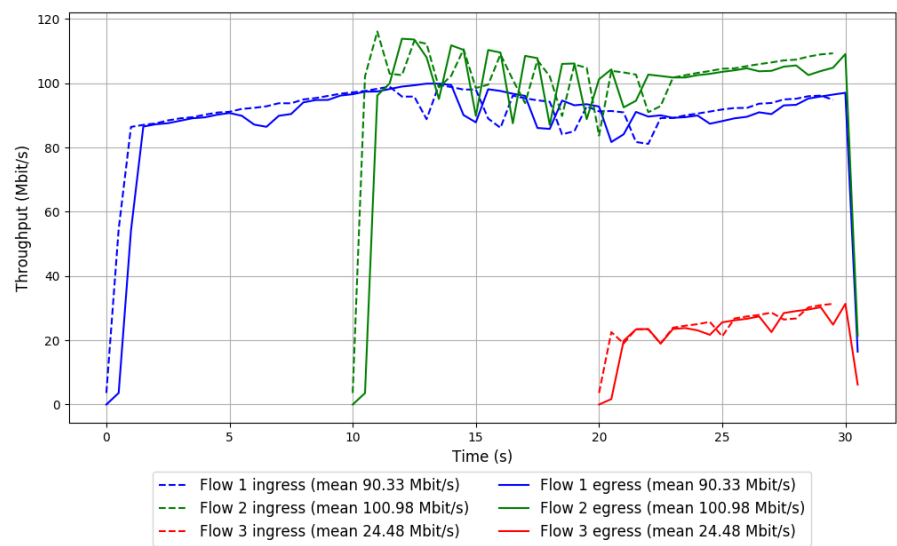
-- Flow 3:

Average throughput: 24.48 Mbit/s

95th percentile per-packet one-way delay: 54.447 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link

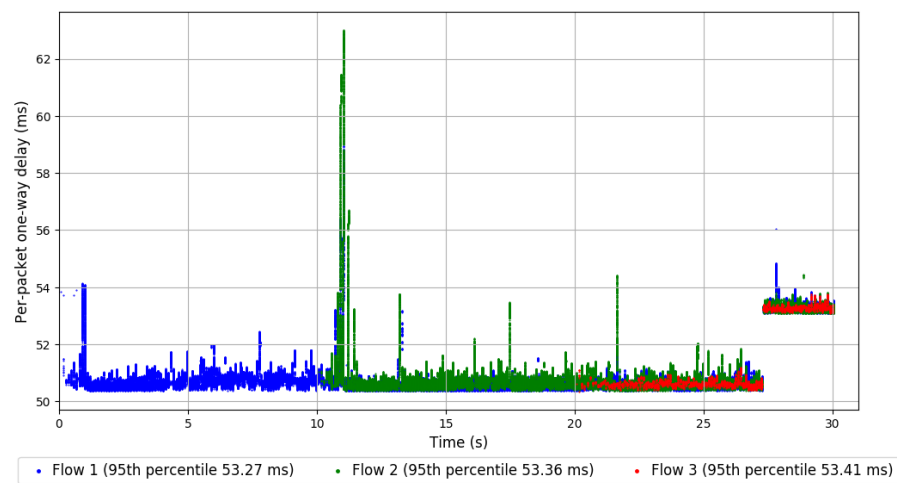
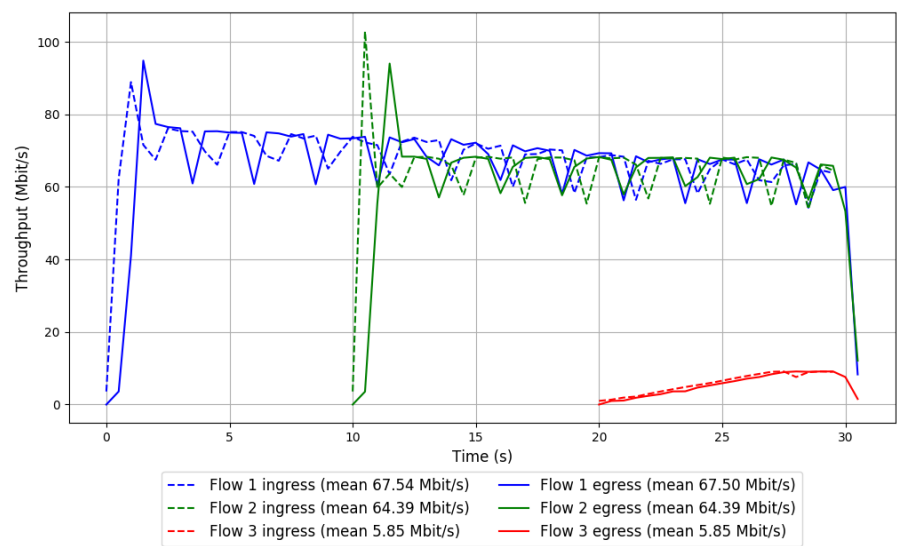


Run 6: Statistics of TCP Vegas

Start at: 2018-08-03 12:45:36  
End at: 2018-08-03 12:46:06  
Local clock offset: -0.114 ms  
Remote clock offset: -0.095 ms

# Below is generated by plot.py at 2018-08-03 17:34:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 112.33 Mbit/s  
95th percentile per-packet one-way delay: 53.308 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 67.50 Mbit/s  
95th percentile per-packet one-way delay: 53.267 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 64.39 Mbit/s  
95th percentile per-packet one-way delay: 53.358 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 5.85 Mbit/s  
95th percentile per-packet one-way delay: 53.413 ms  
Loss rate: 0.02%

Run 6: Report of TCP Vegas — Data Link

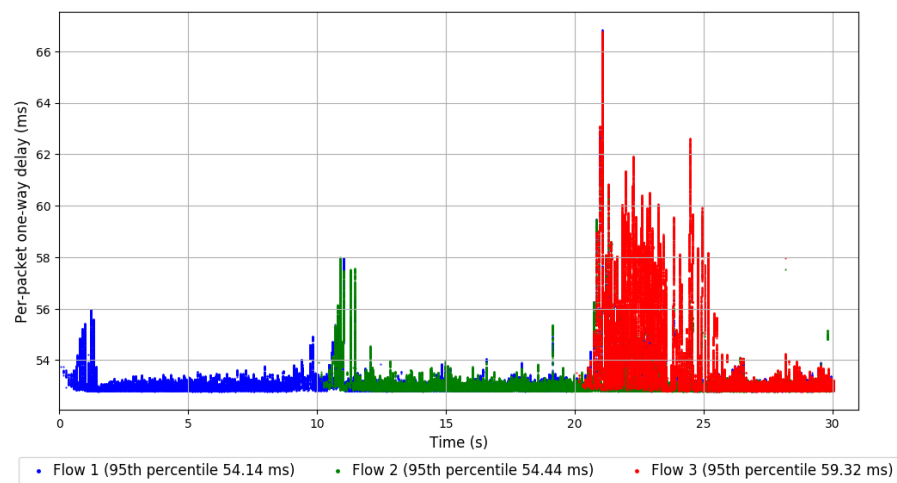
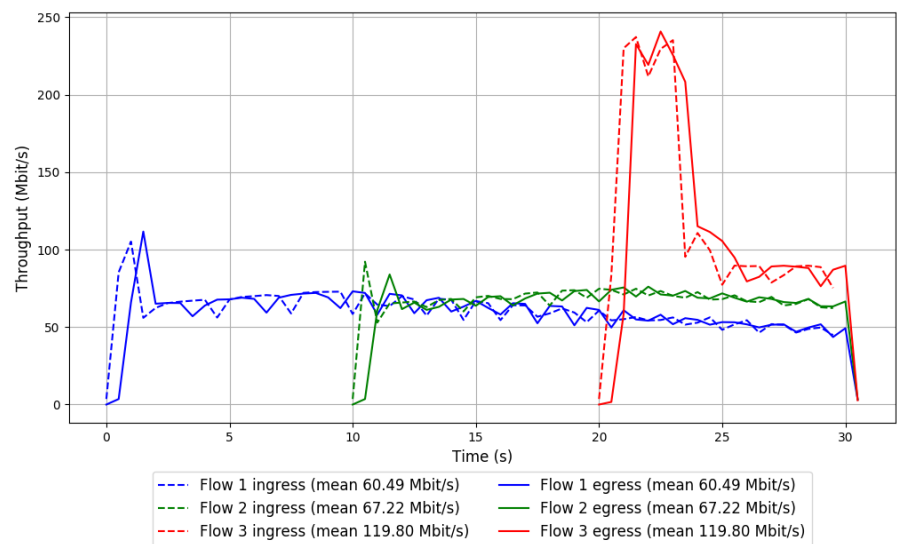


Run 7: Statistics of TCP Vegas

Start at: 2018-08-03 13:11:00  
End at: 2018-08-03 13:11:30  
Local clock offset: 0.025 ms  
Remote clock offset: -0.249 ms

# Below is generated by plot.py at 2018-08-03 17:34:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 145.08 Mbit/s  
95th percentile per-packet one-way delay: 57.557 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 60.49 Mbit/s  
95th percentile per-packet one-way delay: 54.136 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 67.22 Mbit/s  
95th percentile per-packet one-way delay: 54.440 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 119.80 Mbit/s  
95th percentile per-packet one-way delay: 59.323 ms  
Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link

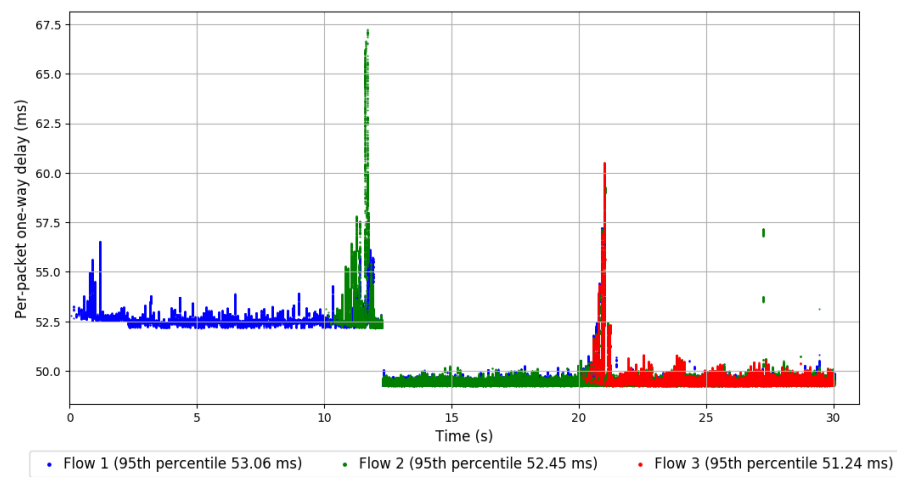
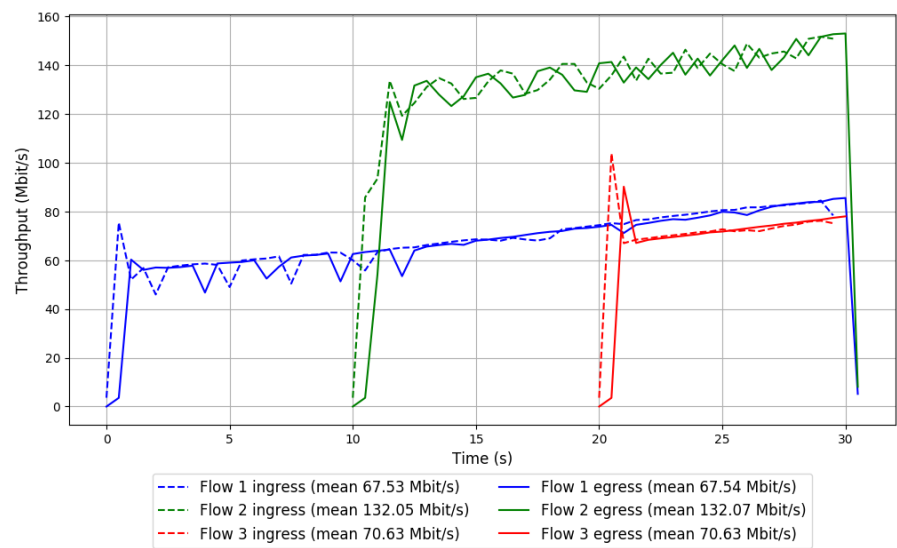


Run 8: Statistics of TCP Vegas

Start at: 2018-08-03 13:36:11  
End at: 2018-08-03 13:36:41  
Local clock offset: -0.187 ms  
Remote clock offset: -1.327 ms

# Below is generated by plot.py at 2018-08-03 17:35:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 178.85 Mbit/s  
95th percentile per-packet one-way delay: 52.837 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 67.54 Mbit/s  
95th percentile per-packet one-way delay: 53.057 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 132.07 Mbit/s  
95th percentile per-packet one-way delay: 52.446 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 70.63 Mbit/s  
95th percentile per-packet one-way delay: 51.236 ms  
Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link

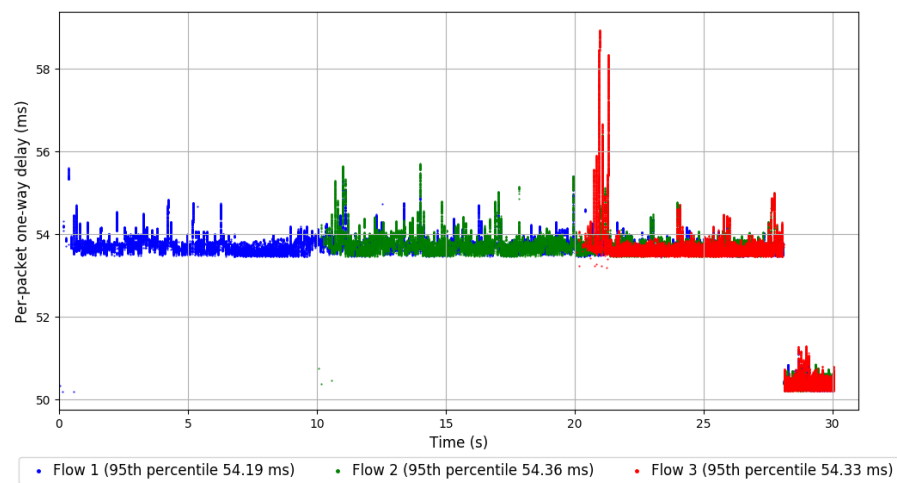
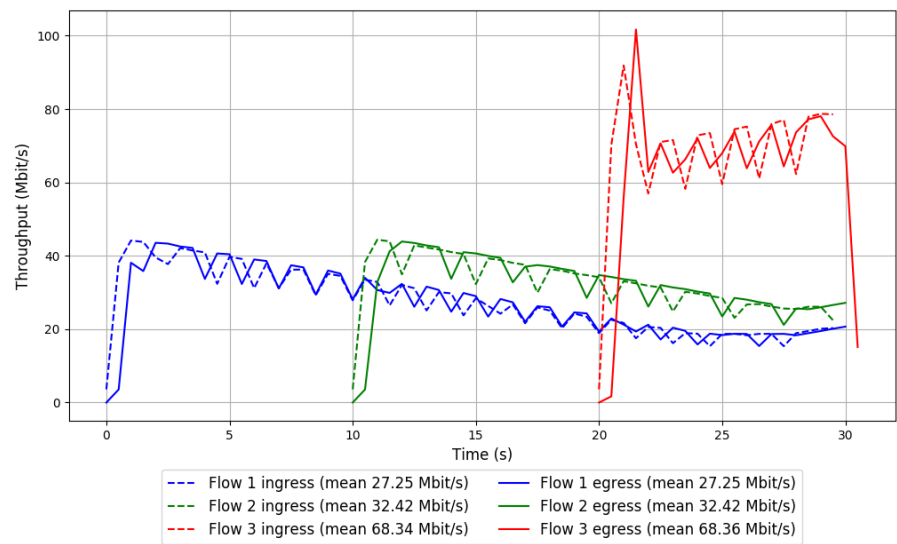


Run 9: Statistics of TCP Vegas

Start at: 2018-08-03 14:01:15  
End at: 2018-08-03 14:01:45  
Local clock offset: -0.092 ms  
Remote clock offset: -0.309 ms

# Below is generated by plot.py at 2018-08-03 17:35:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 71.47 Mbit/s  
95th percentile per-packet one-way delay: 54.274 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 27.25 Mbit/s  
95th percentile per-packet one-way delay: 54.193 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 32.42 Mbit/s  
95th percentile per-packet one-way delay: 54.358 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 68.36 Mbit/s  
95th percentile per-packet one-way delay: 54.331 ms  
Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link

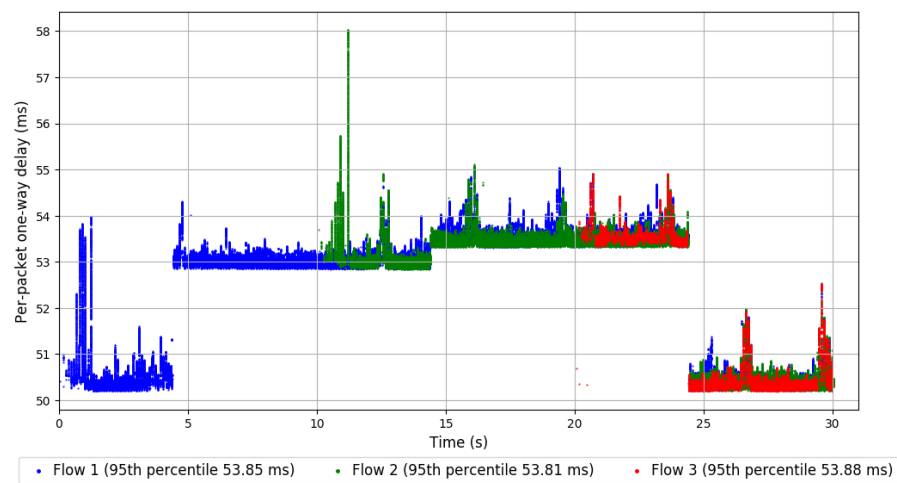
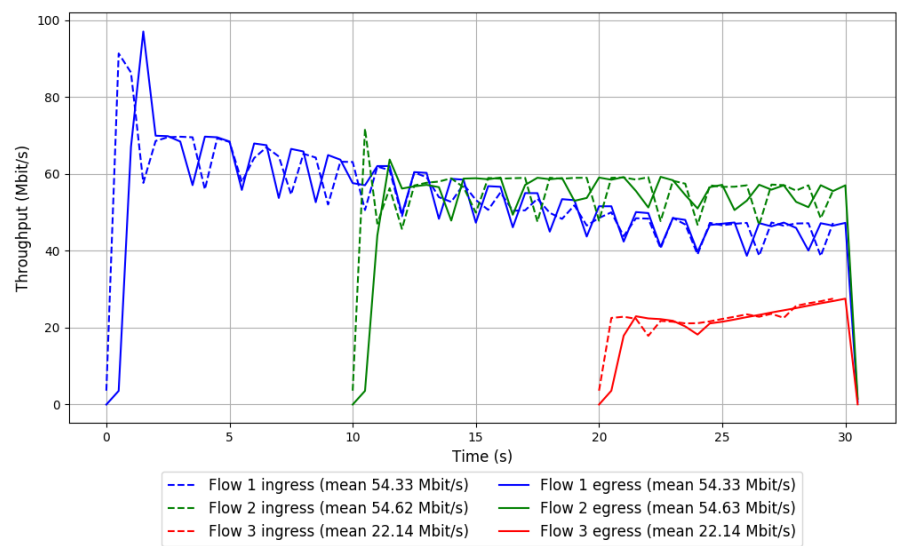


Run 10: Statistics of TCP Vegas

Start at: 2018-08-03 14:26:39  
End at: 2018-08-03 14:27:09  
Local clock offset: 0.047 ms  
Remote clock offset: -0.177 ms

# Below is generated by plot.py at 2018-08-03 17:35:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 98.05 Mbit/s  
95th percentile per-packet one-way delay: 53.841 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 54.33 Mbit/s  
95th percentile per-packet one-way delay: 53.849 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 54.63 Mbit/s  
95th percentile per-packet one-way delay: 53.812 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 22.14 Mbit/s  
95th percentile per-packet one-way delay: 53.882 ms  
Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link

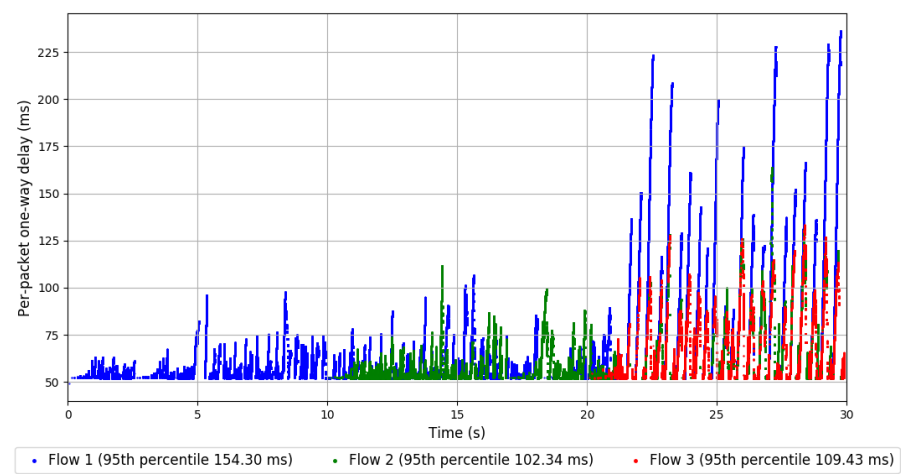
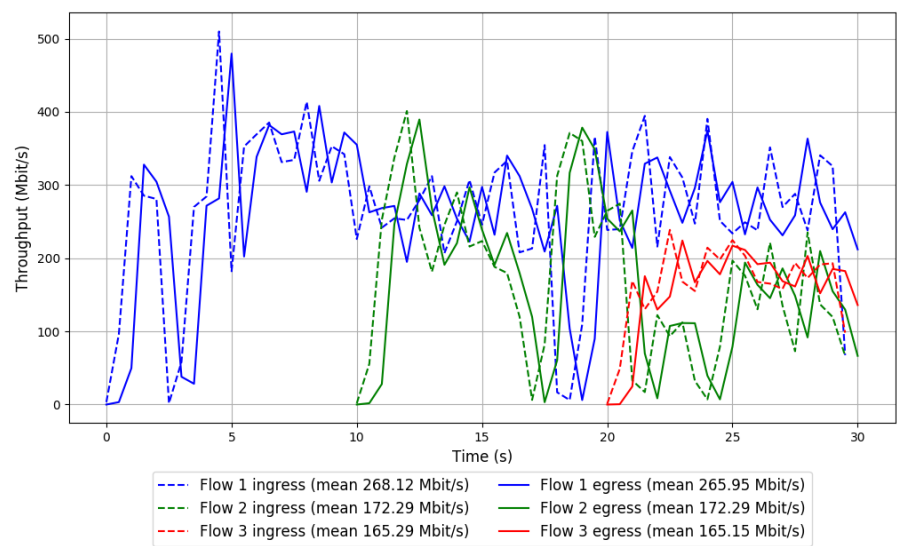


Run 1: Statistics of Verus

Start at: 2018-08-03 10:48:13  
End at: 2018-08-03 10:48:43  
Local clock offset: 0.282 ms  
Remote clock offset: -1.598 ms

# Below is generated by plot.py at 2018-08-03 17:39:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 433.27 Mbit/s  
95th percentile per-packet one-way delay: 132.711 ms  
Loss rate: 0.14%  
-- Flow 1:  
Average throughput: 265.95 Mbit/s  
95th percentile per-packet one-way delay: 154.303 ms  
Loss rate: 0.24%  
-- Flow 2:  
Average throughput: 172.29 Mbit/s  
95th percentile per-packet one-way delay: 102.340 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 165.15 Mbit/s  
95th percentile per-packet one-way delay: 109.433 ms  
Loss rate: 0.00%

Run 1: Report of Verus — Data Link

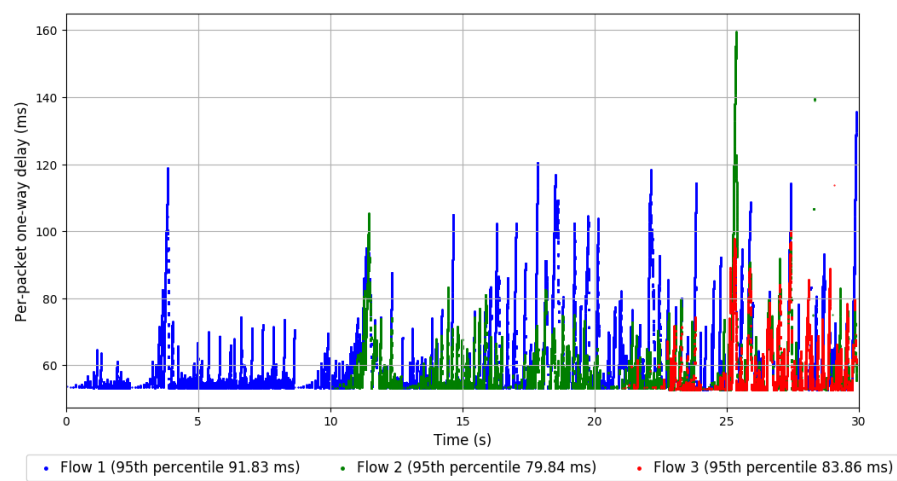
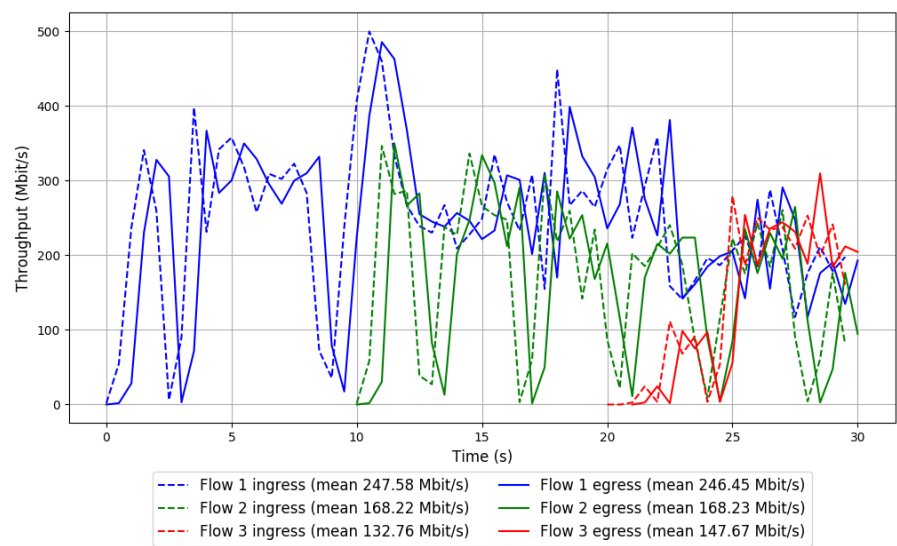


Run 2: Statistics of Verus

Start at: 2018-08-03 11:13:40  
End at: 2018-08-03 11:14:10  
Local clock offset: 0.095 ms  
Remote clock offset: -0.195 ms

# Below is generated by plot.py at 2018-08-03 17:39:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 401.97 Mbit/s  
95th percentile per-packet one-way delay: 87.959 ms  
Loss rate: 0.30%  
-- Flow 1:  
Average throughput: 246.45 Mbit/s  
95th percentile per-packet one-way delay: 91.825 ms  
Loss rate: 0.47%  
-- Flow 2:  
Average throughput: 168.23 Mbit/s  
95th percentile per-packet one-way delay: 79.845 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 147.67 Mbit/s  
95th percentile per-packet one-way delay: 83.863 ms  
Loss rate: 0.00%

Run 2: Report of Verus — Data Link

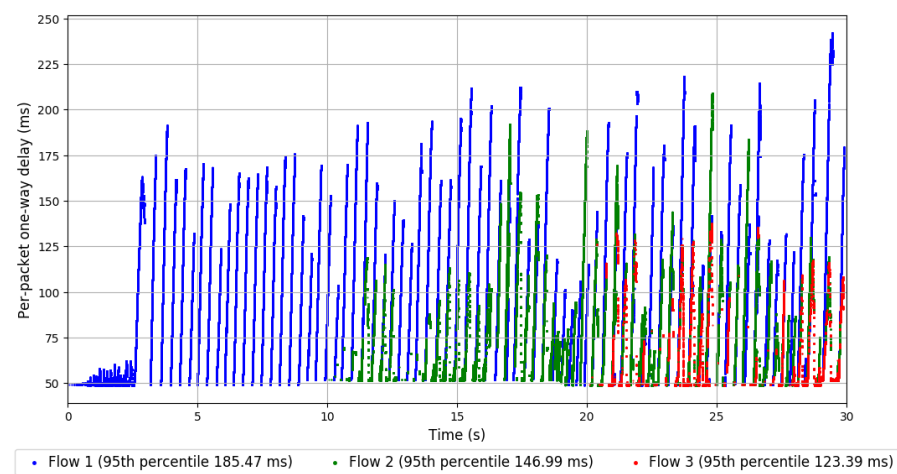
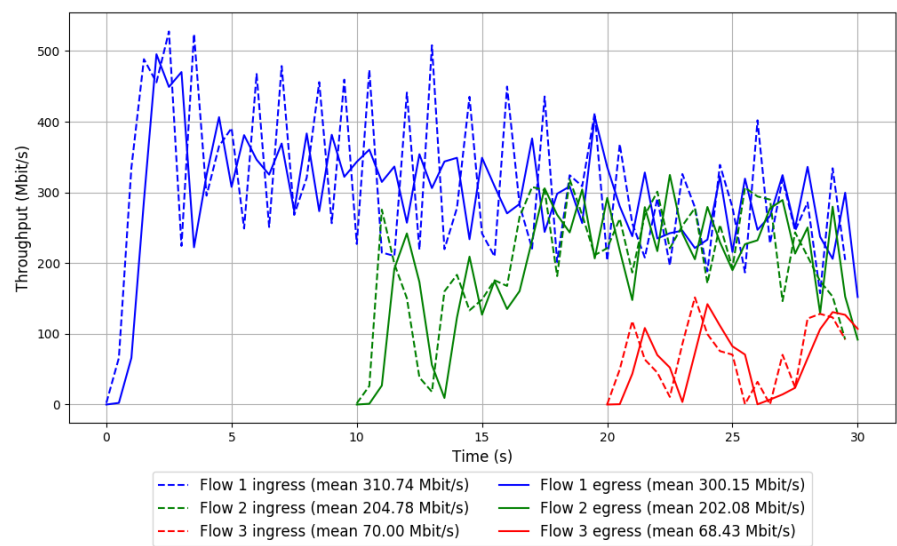


Run 3: Statistics of Verus

Start at: 2018-08-03 11:39:14  
End at: 2018-08-03 11:39:44  
Local clock offset: -0.022 ms  
Remote clock offset: -1.454 ms

# Below is generated by plot.py at 2018-08-03 17:40:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 455.83 Mbit/s  
95th percentile per-packet one-way delay: 176.519 ms  
Loss rate: 2.46%  
-- Flow 1:  
Average throughput: 300.15 Mbit/s  
95th percentile per-packet one-way delay: 185.468 ms  
Loss rate: 3.07%  
-- Flow 2:  
Average throughput: 202.08 Mbit/s  
95th percentile per-packet one-way delay: 146.992 ms  
Loss rate: 1.16%  
-- Flow 3:  
Average throughput: 68.43 Mbit/s  
95th percentile per-packet one-way delay: 123.392 ms  
Loss rate: 1.82%

Run 3: Report of Verus — Data Link

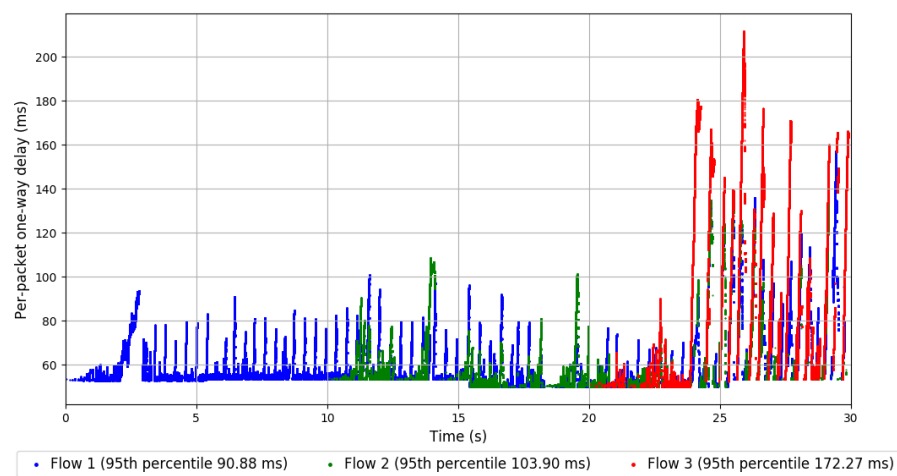
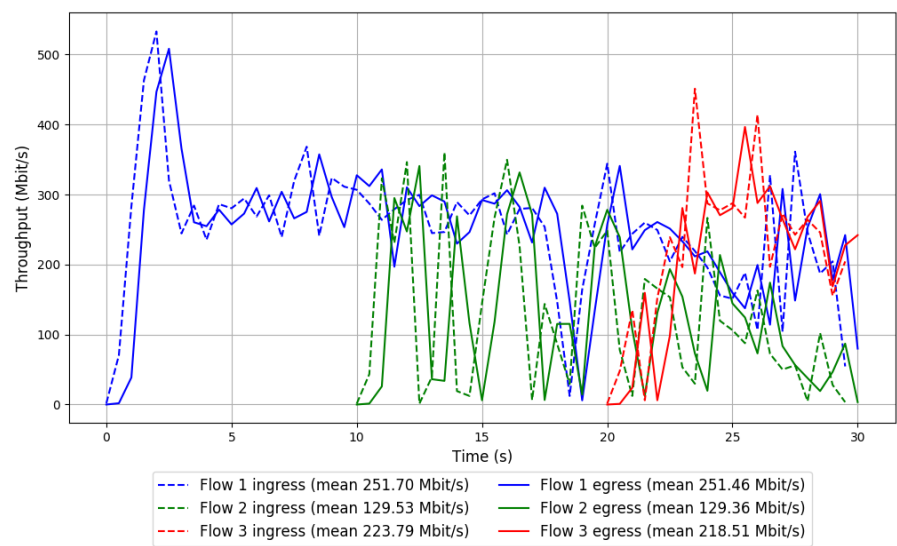


Run 4: Statistics of Verus

Start at: 2018-08-03 12:04:28  
End at: 2018-08-03 12:04:58  
Local clock offset: -0.037 ms  
Remote clock offset: -0.288 ms

# Below is generated by plot.py at 2018-08-03 17:40:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 407.76 Mbit/s  
95th percentile per-packet one-way delay: 127.616 ms  
Loss rate: 0.25%  
-- Flow 1:  
Average throughput: 251.46 Mbit/s  
95th percentile per-packet one-way delay: 90.883 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 129.36 Mbit/s  
95th percentile per-packet one-way delay: 103.903 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 218.51 Mbit/s  
95th percentile per-packet one-way delay: 172.268 ms  
Loss rate: 1.23%

Run 4: Report of Verus — Data Link

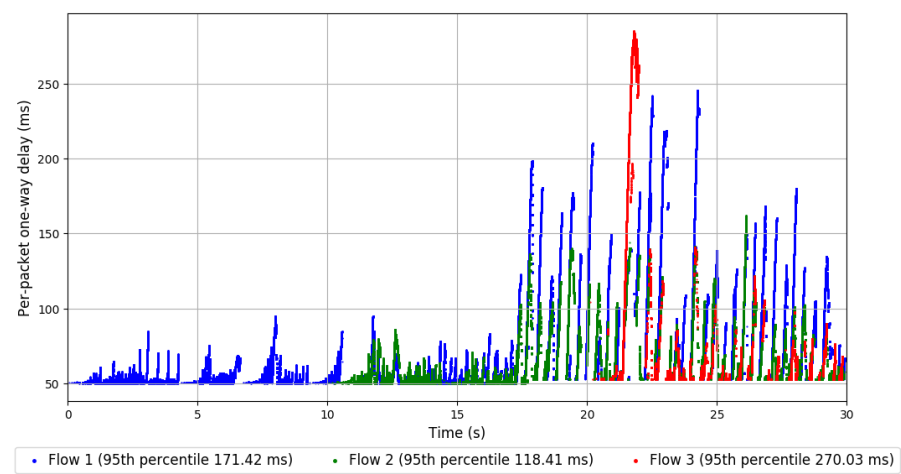
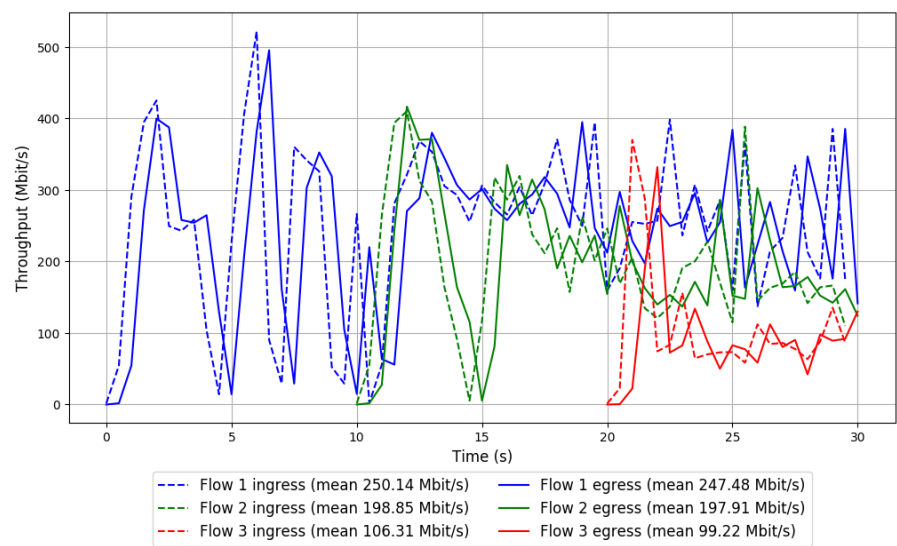


Run 5: Statistics of Verus

Start at: 2018-08-03 12:29:45  
End at: 2018-08-03 12:30:15  
Local clock offset: -0.061 ms  
Remote clock offset: -0.196 ms

# Below is generated by plot.py at 2018-08-03 17:40:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 411.26 Mbit/s  
95th percentile per-packet one-way delay: 163.437 ms  
Loss rate: 1.38%  
-- Flow 1:  
Average throughput: 247.48 Mbit/s  
95th percentile per-packet one-way delay: 171.421 ms  
Loss rate: 1.07%  
-- Flow 2:  
Average throughput: 197.91 Mbit/s  
95th percentile per-packet one-way delay: 118.406 ms  
Loss rate: 0.48%  
-- Flow 3:  
Average throughput: 99.22 Mbit/s  
95th percentile per-packet one-way delay: 270.028 ms  
Loss rate: 7.01%

Run 5: Report of Verus — Data Link

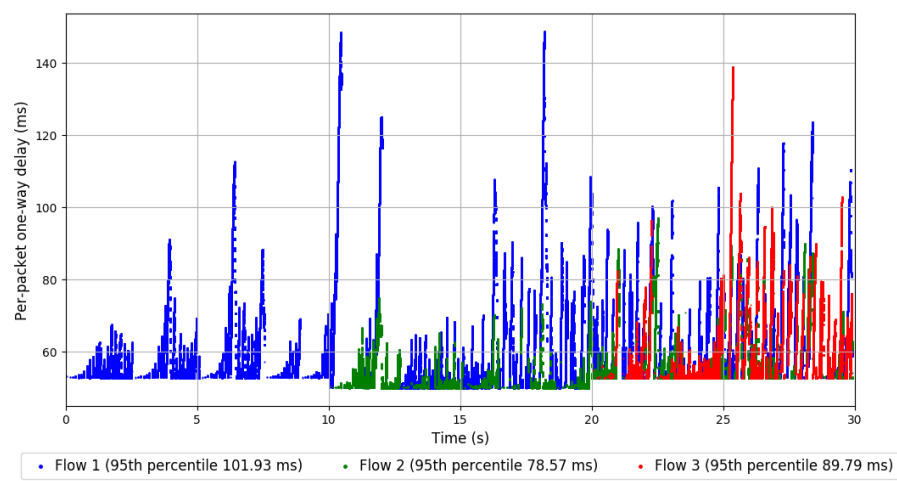
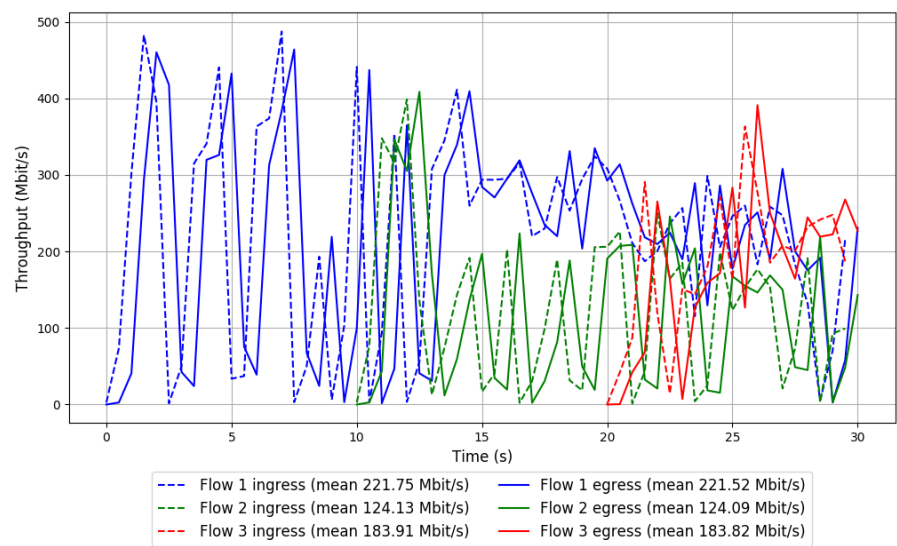


Run 6: Statistics of Verus

Start at: 2018-08-03 12:54:53  
End at: 2018-08-03 12:55:23  
Local clock offset: 0.171 ms  
Remote clock offset: -0.196 ms

# Below is generated by plot.py at 2018-08-03 17:40:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 364.40 Mbit/s  
95th percentile per-packet one-way delay: 93.622 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 221.52 Mbit/s  
95th percentile per-packet one-way delay: 101.930 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 124.09 Mbit/s  
95th percentile per-packet one-way delay: 78.567 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 183.82 Mbit/s  
95th percentile per-packet one-way delay: 89.788 ms  
Loss rate: 0.00%

Run 6: Report of Verus — Data Link

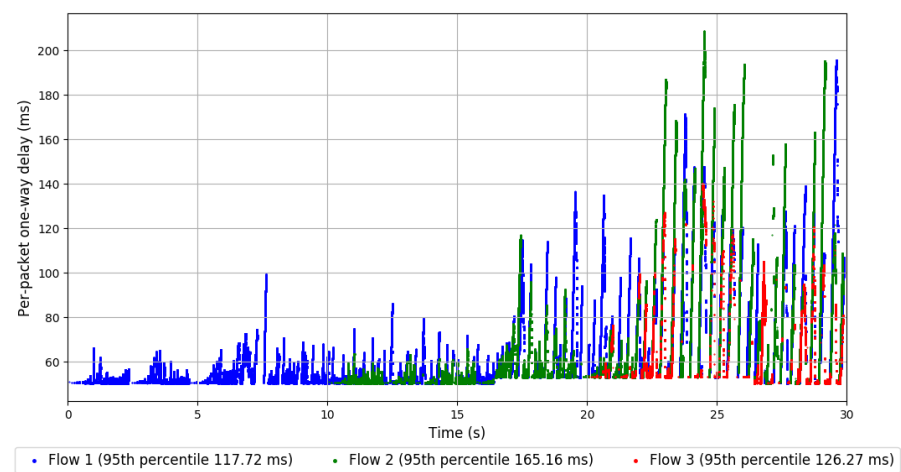
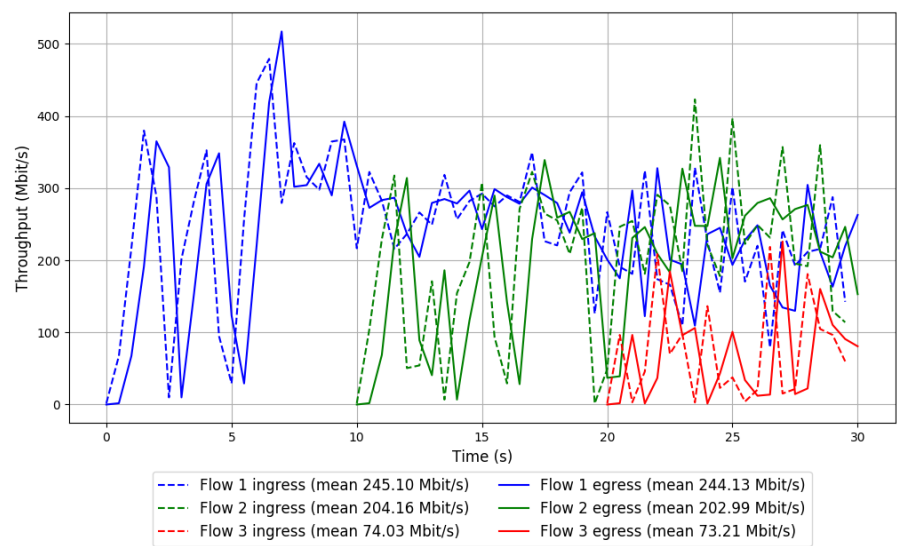


Run 7: Statistics of Verus

Start at: 2018-08-03 13:20:17  
End at: 2018-08-03 13:20:47  
Local clock offset: -0.041 ms  
Remote clock offset: -0.145 ms

# Below is generated by plot.py at 2018-08-03 17:40:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 402.78 Mbit/s  
95th percentile per-packet one-way delay: 135.949 ms  
Loss rate: 0.30%  
-- Flow 1:  
Average throughput: 244.13 Mbit/s  
95th percentile per-packet one-way delay: 117.722 ms  
Loss rate: 0.21%  
-- Flow 2:  
Average throughput: 202.99 Mbit/s  
95th percentile per-packet one-way delay: 165.159 ms  
Loss rate: 0.37%  
-- Flow 3:  
Average throughput: 73.21 Mbit/s  
95th percentile per-packet one-way delay: 126.269 ms  
Loss rate: 0.85%

Run 7: Report of Verus — Data Link

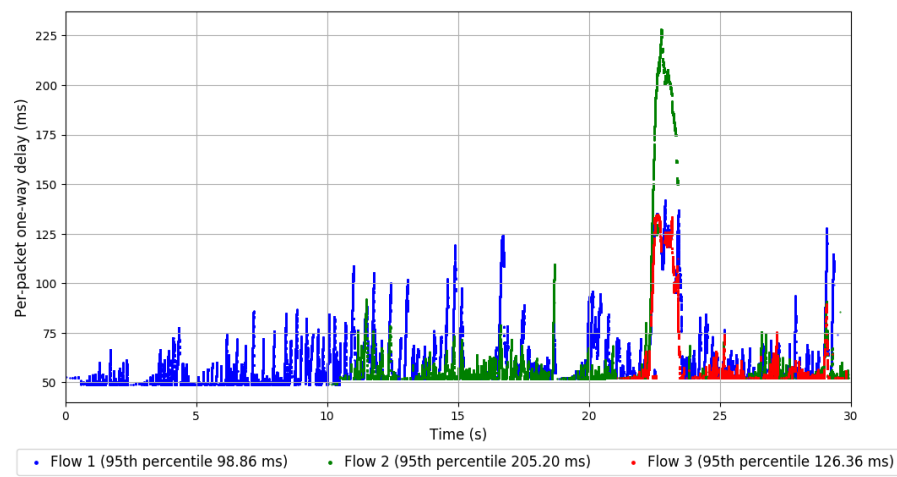
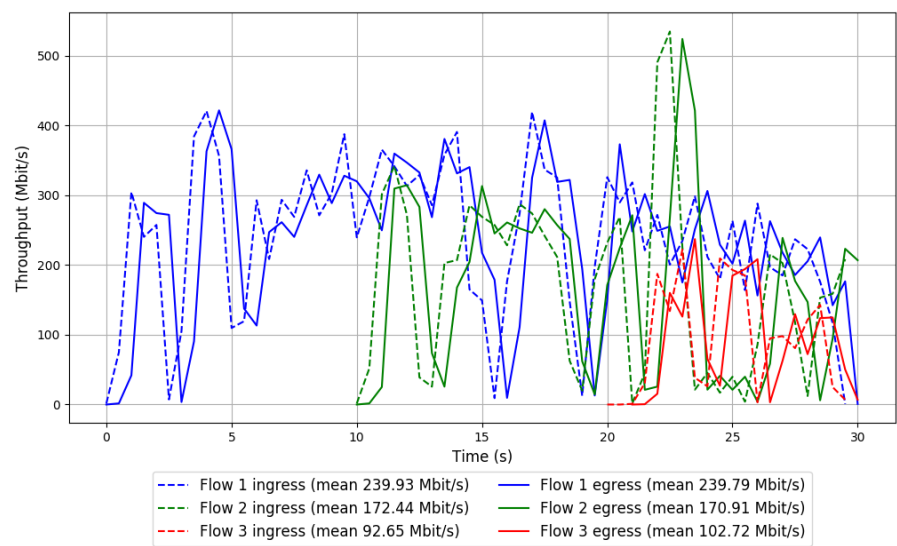


Run 8: Statistics of Verus

Start at: 2018-08-03 13:45:43  
End at: 2018-08-03 13:46:13  
Local clock offset: 0.124 ms  
Remote clock offset: -1.418 ms

# Below is generated by plot.py at 2018-08-03 17:41:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 382.70 Mbit/s  
95th percentile per-packet one-way delay: 129.828 ms  
Loss rate: 0.33%  
-- Flow 1:  
Average throughput: 239.79 Mbit/s  
95th percentile per-packet one-way delay: 98.861 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 170.91 Mbit/s  
95th percentile per-packet one-way delay: 205.203 ms  
Loss rate: 0.87%  
-- Flow 3:  
Average throughput: 102.72 Mbit/s  
95th percentile per-packet one-way delay: 126.356 ms  
Loss rate: 0.46%

Run 8: Report of Verus — Data Link

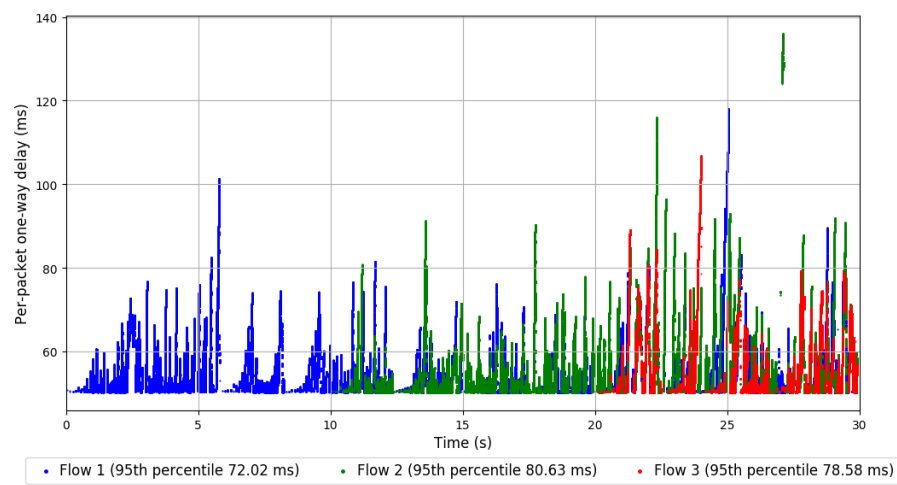
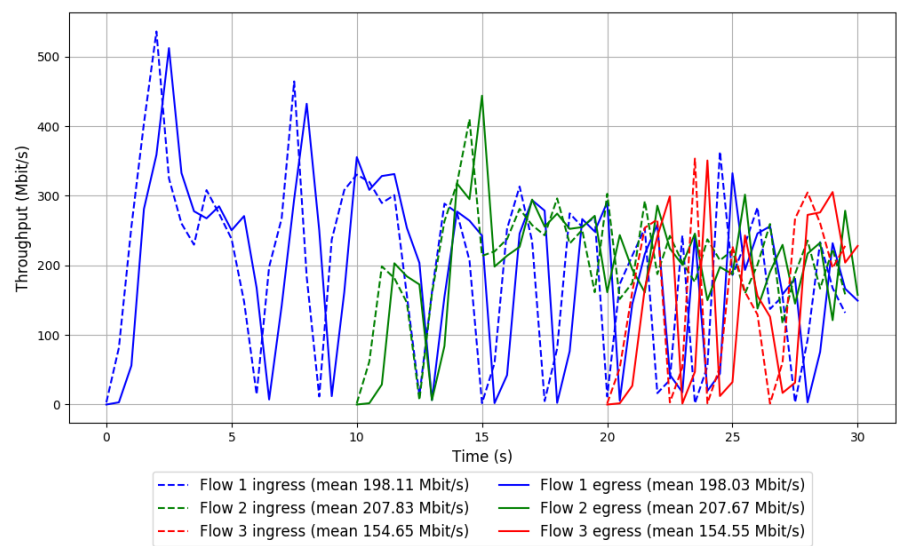


Run 9: Statistics of Verus

Start at: 2018-08-03 14:10:29  
End at: 2018-08-03 14:10:59  
Local clock offset: 0.027 ms  
Remote clock offset: -0.212 ms

# Below is generated by plot.py at 2018-08-03 17:44:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 386.99 Mbit/s  
95th percentile per-packet one-way delay: 76.066 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 198.03 Mbit/s  
95th percentile per-packet one-way delay: 72.022 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 207.67 Mbit/s  
95th percentile per-packet one-way delay: 80.631 ms  
Loss rate: 0.06%  
-- Flow 3:  
Average throughput: 154.55 Mbit/s  
95th percentile per-packet one-way delay: 78.583 ms  
Loss rate: 0.00%

Run 9: Report of Verus — Data Link

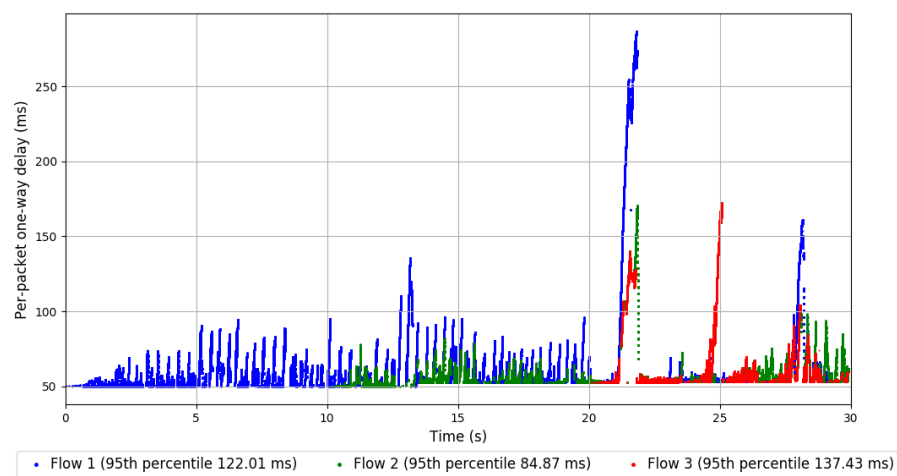
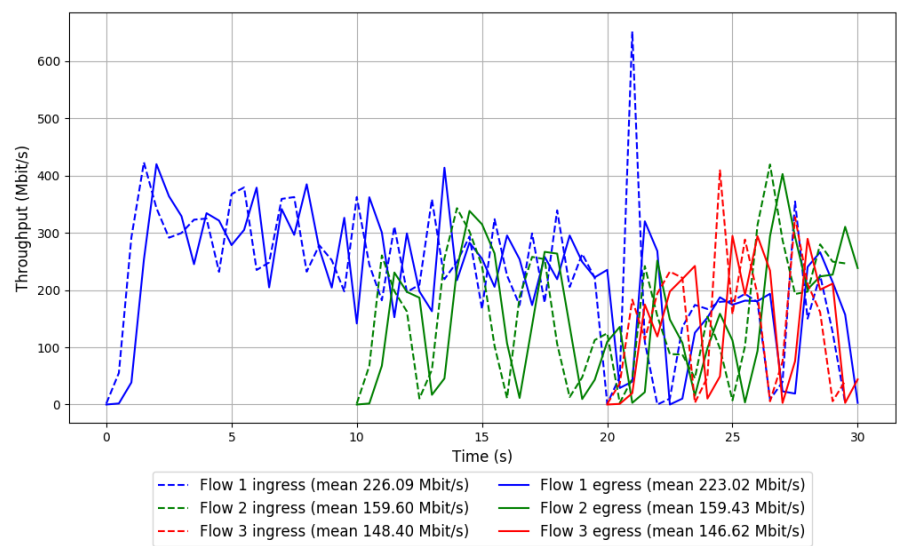


Run 10: Statistics of Verus

Start at: 2018-08-03 14:36:00  
End at: 2018-08-03 14:36:30  
Local clock offset: 0.274 ms  
Remote clock offset: -0.303 ms

# Below is generated by plot.py at 2018-08-03 17:44:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 376.49 Mbit/s  
95th percentile per-packet one-way delay: 119.756 ms  
Loss rate: 0.98%  
-- Flow 1:  
Average throughput: 223.02 Mbit/s  
95th percentile per-packet one-way delay: 122.014 ms  
Loss rate: 1.35%  
-- Flow 2:  
Average throughput: 159.43 Mbit/s  
95th percentile per-packet one-way delay: 84.869 ms  
Loss rate: 0.14%  
-- Flow 3:  
Average throughput: 146.62 Mbit/s  
95th percentile per-packet one-way delay: 137.429 ms  
Loss rate: 1.13%

Run 10: Report of Verus — Data Link

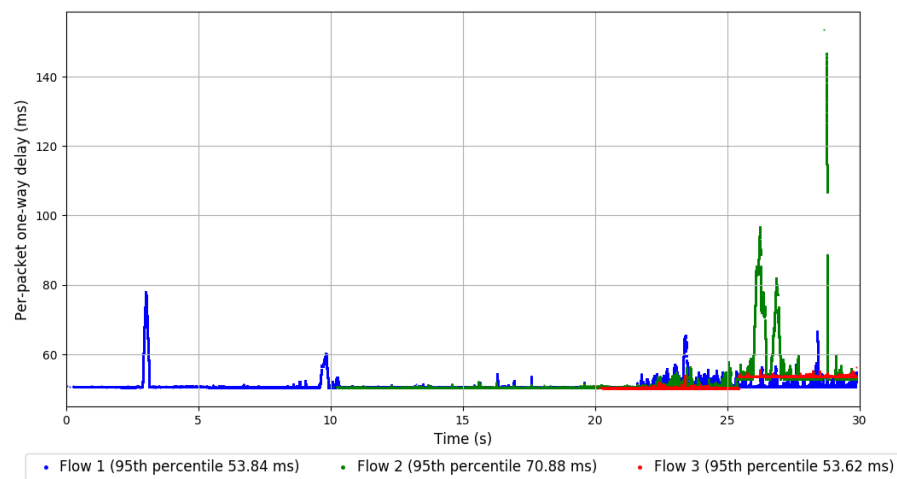
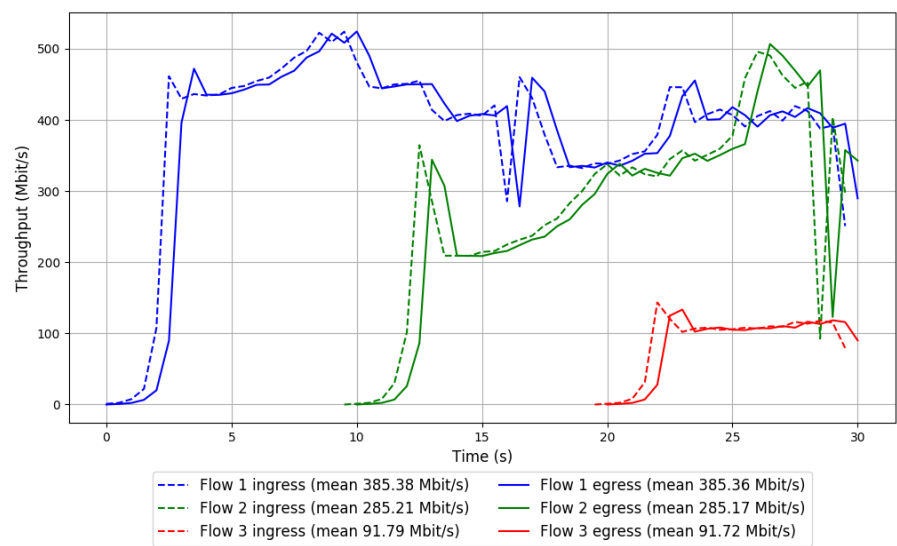


Run 1: Statistics of PCC-Vivace

Start at: 2018-08-03 10:42:58  
End at: 2018-08-03 10:43:28  
Local clock offset: -0.043 ms  
Remote clock offset: -0.317 ms

# Below is generated by plot.py at 2018-08-03 17:49:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 605.60 Mbit/s  
95th percentile per-packet one-way delay: 55.962 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 385.36 Mbit/s  
95th percentile per-packet one-way delay: 53.838 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 285.17 Mbit/s  
95th percentile per-packet one-way delay: 70.876 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 91.72 Mbit/s  
95th percentile per-packet one-way delay: 53.620 ms  
Loss rate: 0.04%

Run 1: Report of PCC-Vivace — Data Link

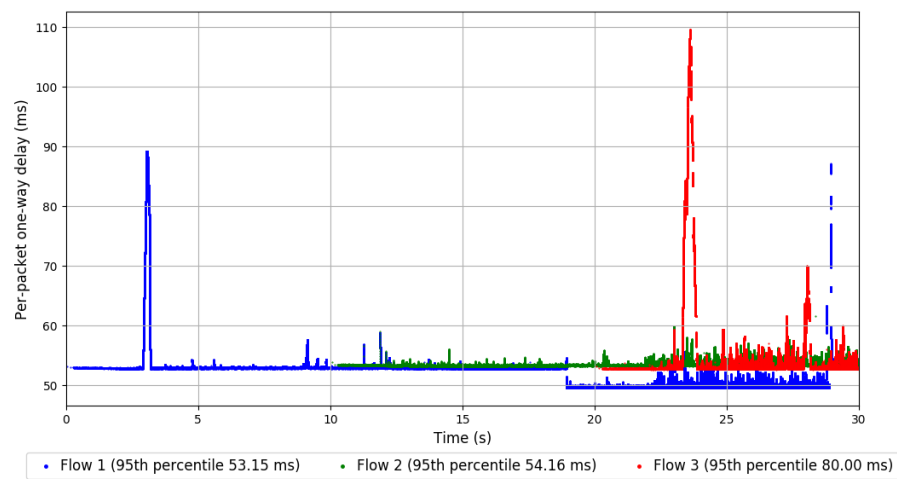
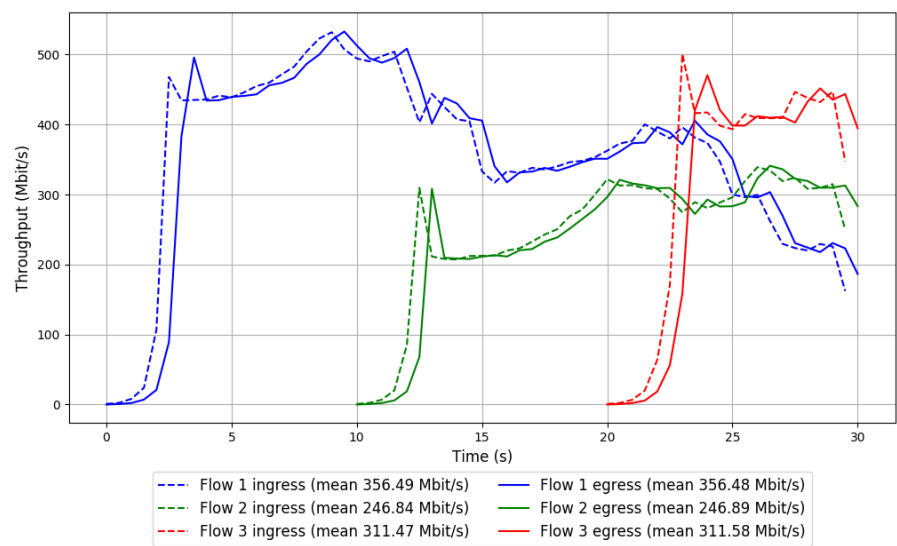


Run 2: Statistics of PCC-Vivace

Start at: 2018-08-03 11:08:25  
End at: 2018-08-03 11:08:55  
Local clock offset: 0.141 ms  
Remote clock offset: -0.323 ms

# Below is generated by plot.py at 2018-08-03 17:50:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 623.45 Mbit/s  
95th percentile per-packet one-way delay: 54.968 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 356.48 Mbit/s  
95th percentile per-packet one-way delay: 53.147 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 246.89 Mbit/s  
95th percentile per-packet one-way delay: 54.158 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 311.58 Mbit/s  
95th percentile per-packet one-way delay: 80.004 ms  
Loss rate: 0.02%

Run 2: Report of PCC-Vivace — Data Link

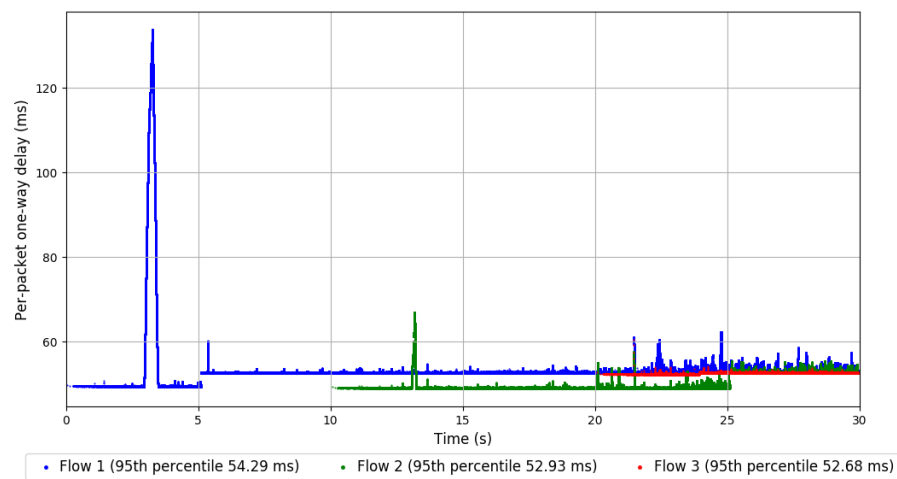
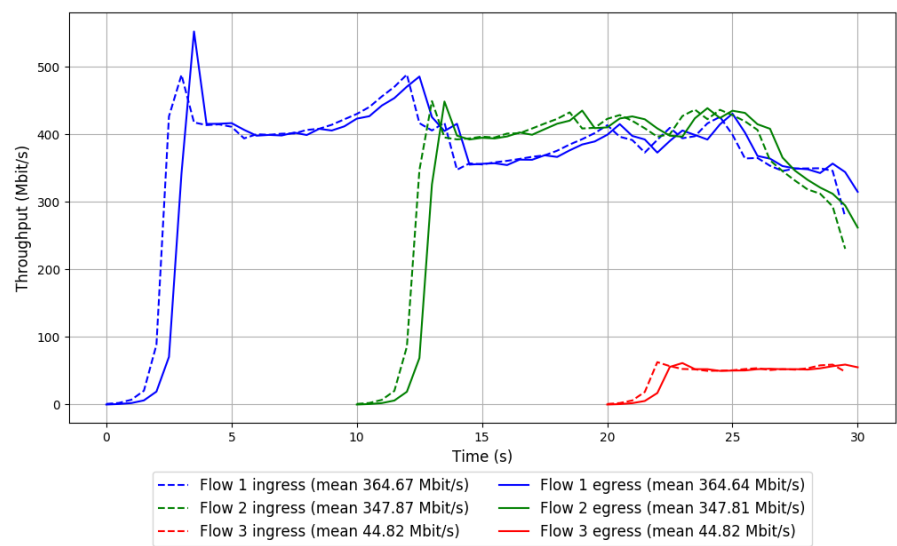


Run 3: Statistics of PCC-Vivace

Start at: 2018-08-03 11:33:49  
End at: 2018-08-03 11:34:19  
Local clock offset: -0.267 ms  
Remote clock offset: -1.363 ms

# Below is generated by plot.py at 2018-08-03 17:50:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 610.73 Mbit/s  
95th percentile per-packet one-way delay: 53.672 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 364.64 Mbit/s  
95th percentile per-packet one-way delay: 54.291 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 347.81 Mbit/s  
95th percentile per-packet one-way delay: 52.933 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 44.82 Mbit/s  
95th percentile per-packet one-way delay: 52.679 ms  
Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link

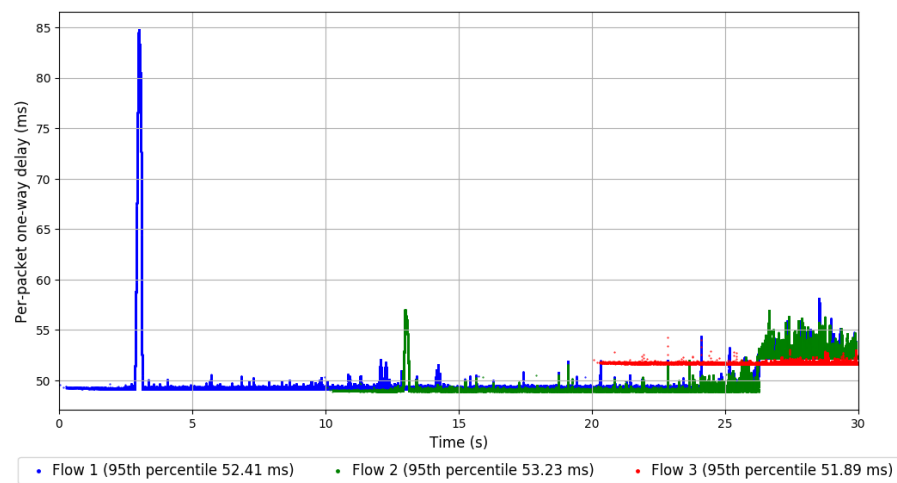
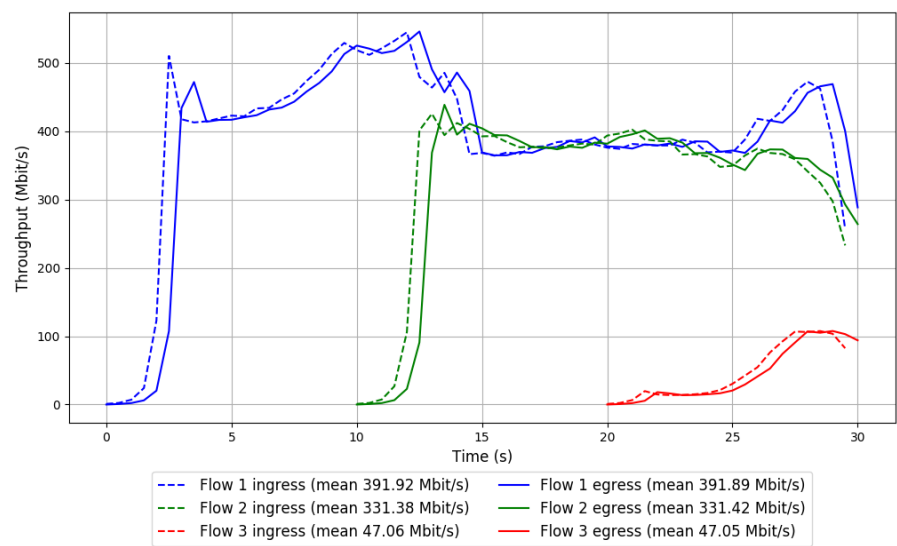


Run 4: Statistics of PCC-Vivace

Start at: 2018-08-03 11:59:08  
End at: 2018-08-03 11:59:38  
Local clock offset: -0.044 ms  
Remote clock offset: -1.418 ms

# Below is generated by plot.py at 2018-08-03 17:50:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 627.73 Mbit/s  
95th percentile per-packet one-way delay: 52.717 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 391.89 Mbit/s  
95th percentile per-packet one-way delay: 52.412 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 331.42 Mbit/s  
95th percentile per-packet one-way delay: 53.228 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 47.05 Mbit/s  
95th percentile per-packet one-way delay: 51.886 ms  
Loss rate: 0.03%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-08-03 12:24:30

End at: 2018-08-03 12:25:00

Local clock offset: 0.035 ms

Remote clock offset: -0.52 ms

# Below is generated by plot.py at 2018-08-03 17:50:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 607.56 Mbit/s

95th percentile per-packet one-way delay: 54.634 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 380.33 Mbit/s

95th percentile per-packet one-way delay: 54.511 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 304.56 Mbit/s

95th percentile per-packet one-way delay: 54.885 ms

Loss rate: 0.00%

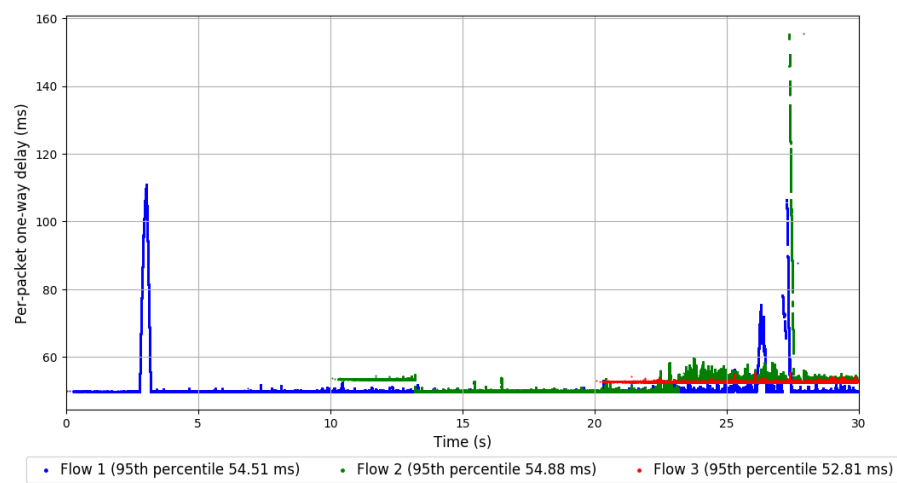
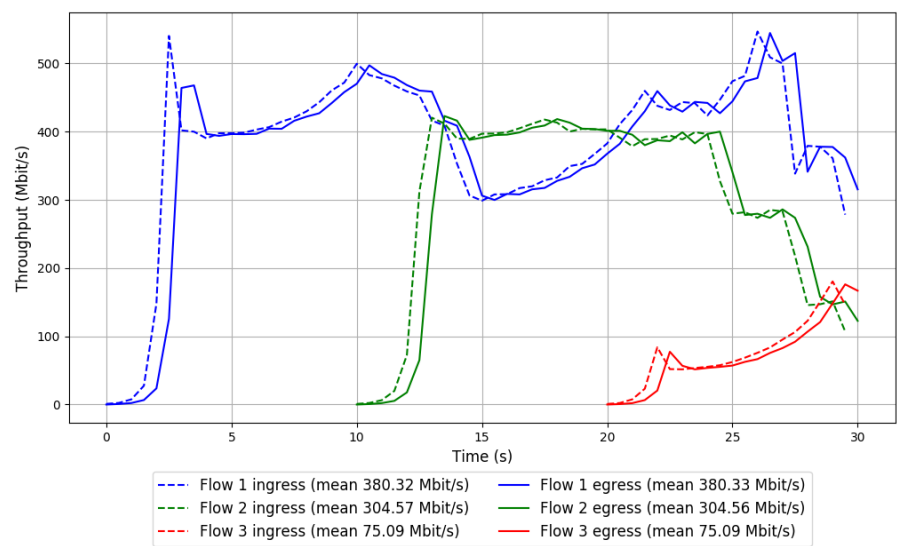
-- Flow 3:

Average throughput: 75.09 Mbit/s

95th percentile per-packet one-way delay: 52.810 ms

Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-08-03 12:49:31

End at: 2018-08-03 12:50:01

Local clock offset: 0.18 ms

Remote clock offset: 0.073 ms

# Below is generated by plot.py at 2018-08-03 17:51:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 621.10 Mbit/s

95th percentile per-packet one-way delay: 55.296 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 383.04 Mbit/s

95th percentile per-packet one-way delay: 57.396 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 341.95 Mbit/s

95th percentile per-packet one-way delay: 53.296 ms

Loss rate: 0.00%

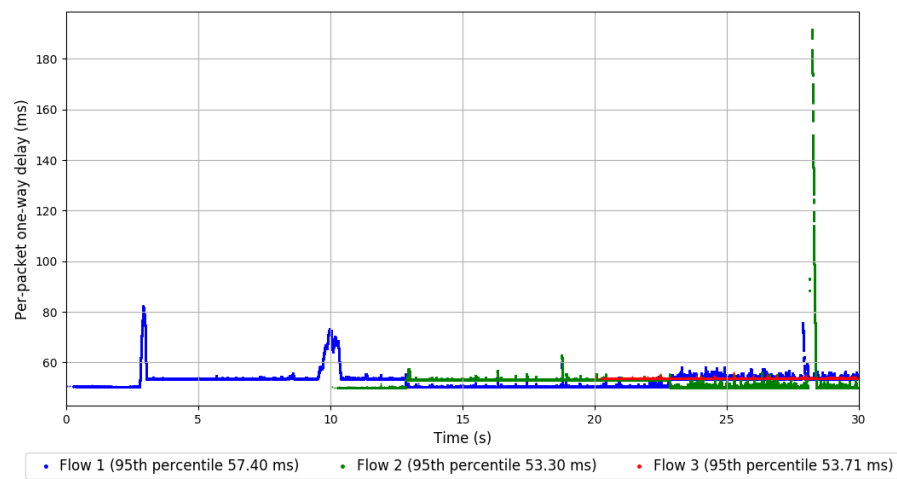
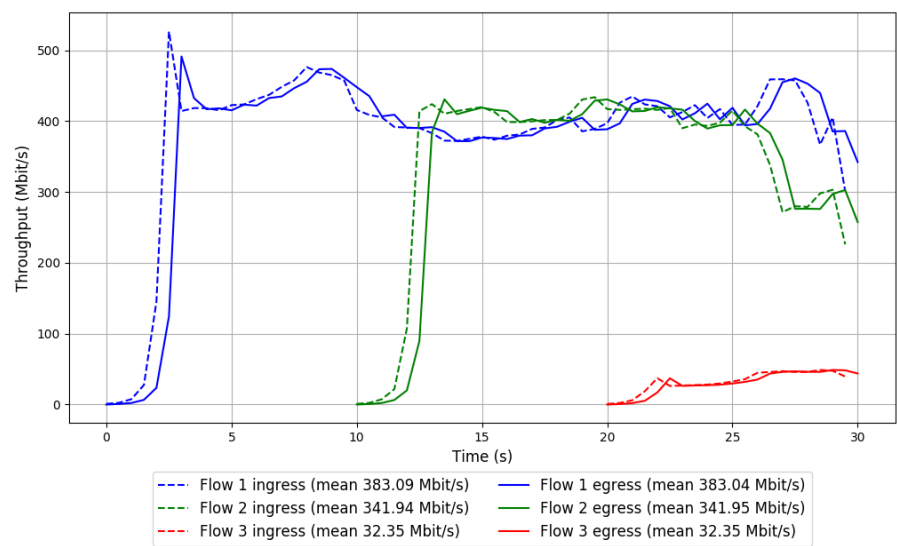
-- Flow 3:

Average throughput: 32.35 Mbit/s

95th percentile per-packet one-way delay: 53.709 ms

Loss rate: 0.01%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-08-03 13:14:58

End at: 2018-08-03 13:15:28

Local clock offset: 0.099 ms

Remote clock offset: 1.035 ms

# Below is generated by plot.py at 2018-08-03 17:52:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 620.61 Mbit/s

95th percentile per-packet one-way delay: 55.712 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 353.55 Mbit/s

95th percentile per-packet one-way delay: 55.513 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 321.81 Mbit/s

95th percentile per-packet one-way delay: 55.924 ms

Loss rate: 0.00%

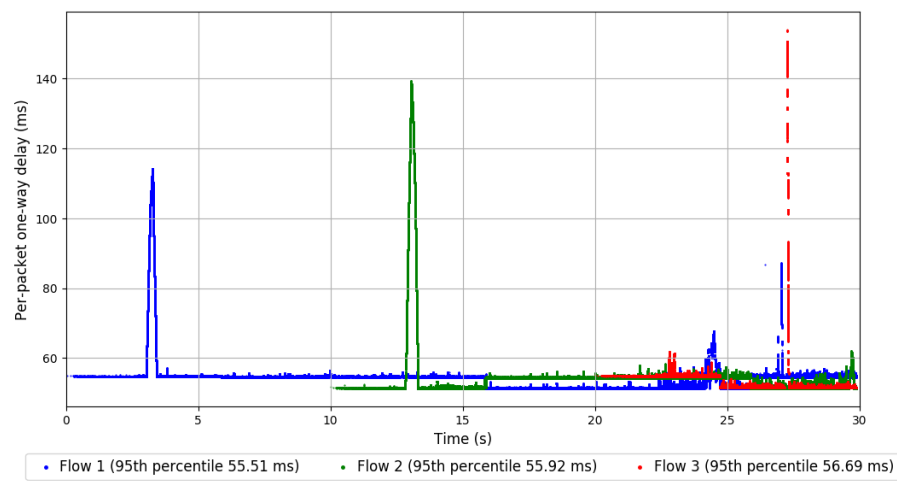
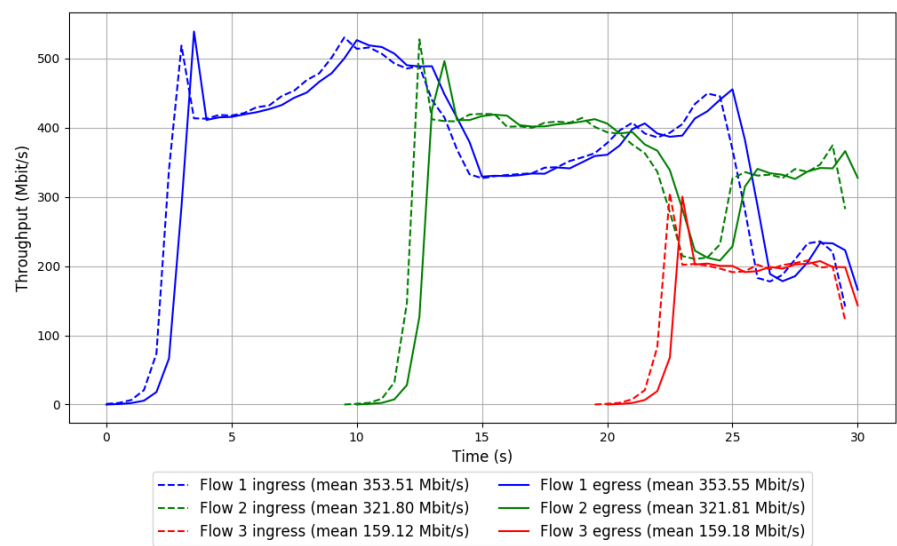
-- Flow 3:

Average throughput: 159.18 Mbit/s

95th percentile per-packet one-way delay: 56.689 ms

Loss rate: 0.00%

Run 7: Report of PCC-Vivace — Data Link

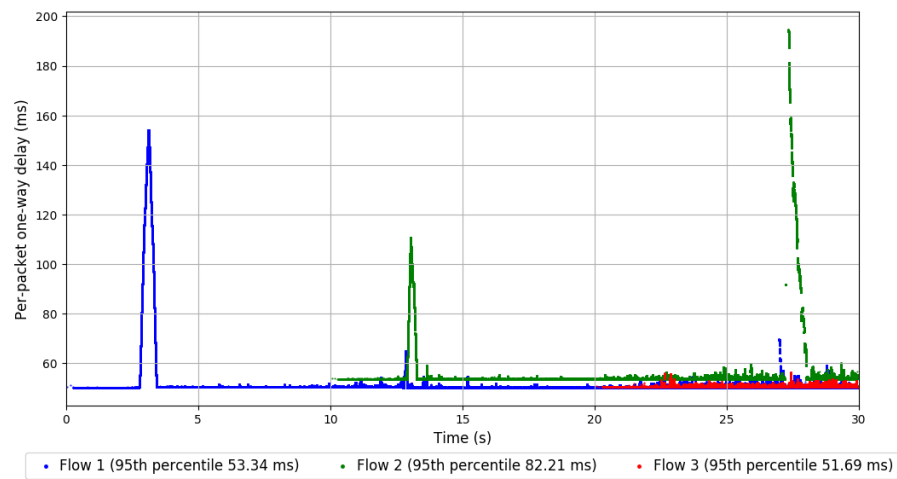
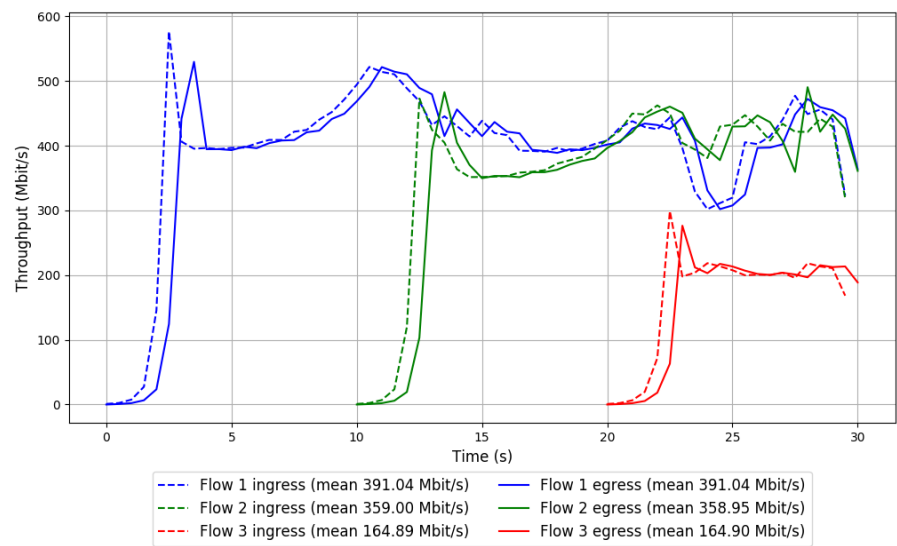


Run 8: Statistics of PCC-Vivace

Start at: 2018-08-03 13:40:12  
End at: 2018-08-03 13:40:42  
Local clock offset: -0.064 ms  
Remote clock offset: -0.101 ms

# Below is generated by plot.py at 2018-08-03 17:53:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 684.10 Mbit/s  
95th percentile per-packet one-way delay: 56.490 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 391.04 Mbit/s  
95th percentile per-packet one-way delay: 53.338 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 358.95 Mbit/s  
95th percentile per-packet one-way delay: 82.207 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 164.90 Mbit/s  
95th percentile per-packet one-way delay: 51.689 ms  
Loss rate: 0.00%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-08-03 14:05:09

End at: 2018-08-03 14:05:39

Local clock offset: 0.22 ms

Remote clock offset: 1.147 ms

# Below is generated by plot.py at 2018-08-03 17:53:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 565.74 Mbit/s

95th percentile per-packet one-way delay: 55.740 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 336.40 Mbit/s

95th percentile per-packet one-way delay: 52.483 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 256.40 Mbit/s

95th percentile per-packet one-way delay: 56.545 ms

Loss rate: 0.00%

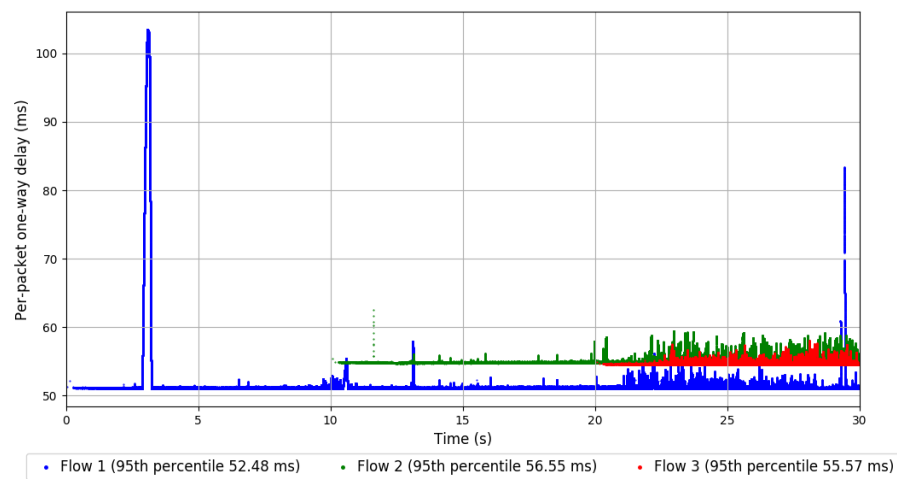
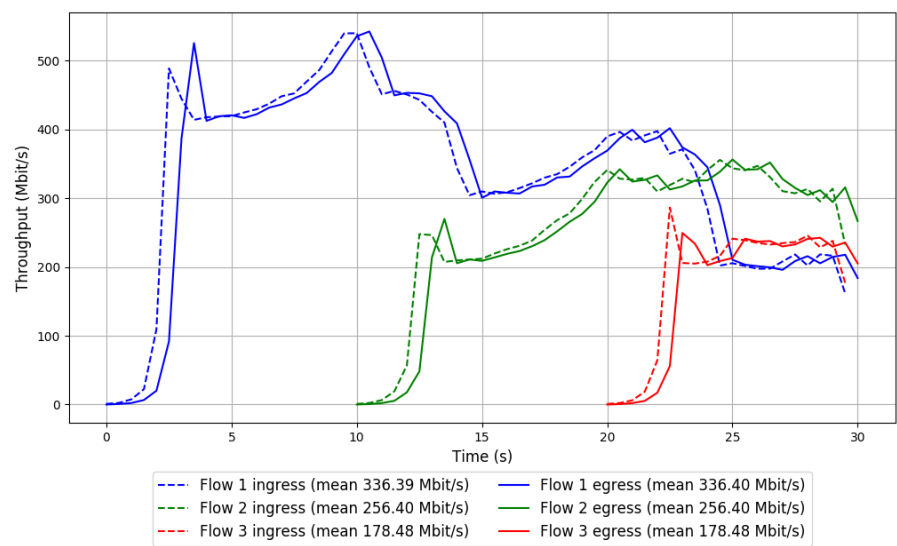
-- Flow 3:

Average throughput: 178.48 Mbit/s

95th percentile per-packet one-way delay: 55.568 ms

Loss rate: 0.00%

Run 9: Report of PCC-Vivace — Data Link

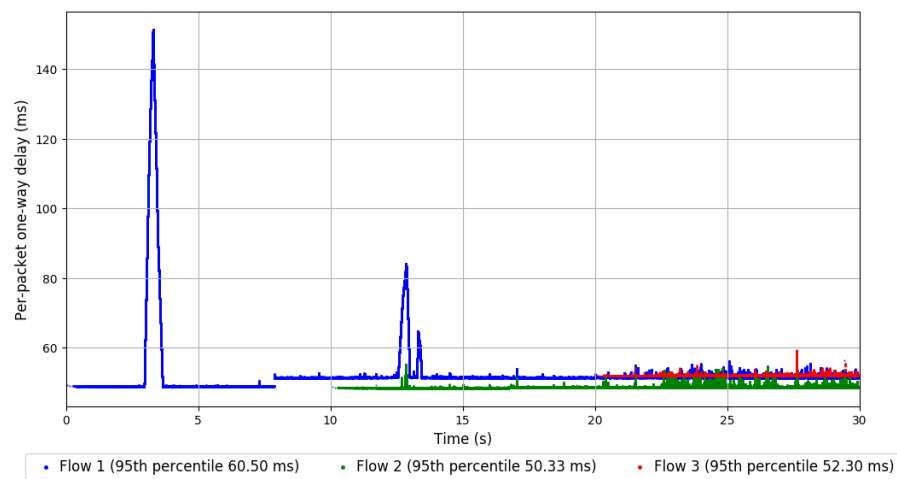
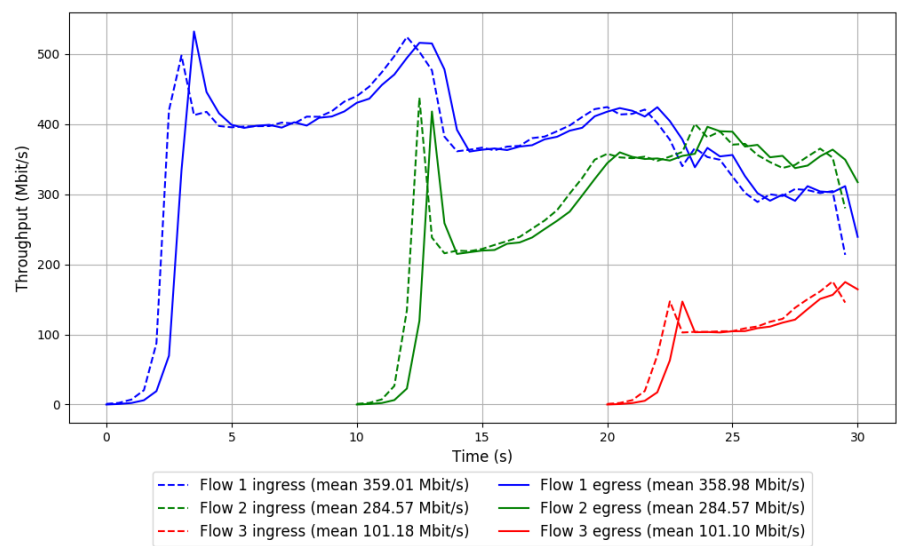


Run 10: Statistics of PCC-Vivace

Start at: 2018-08-03 14:30:36  
End at: 2018-08-03 14:31:06  
Local clock offset: 0.015 ms  
Remote clock offset: -1.686 ms

# Below is generated by plot.py at 2018-08-03 17:53:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 581.58 Mbit/s  
95th percentile per-packet one-way delay: 52.770 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 358.98 Mbit/s  
95th percentile per-packet one-way delay: 60.497 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 284.57 Mbit/s  
95th percentile per-packet one-way delay: 50.328 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 101.10 Mbit/s  
95th percentile per-packet one-way delay: 52.296 ms  
Loss rate: 0.10%

Run 10: Report of PCC-Vivace — Data Link

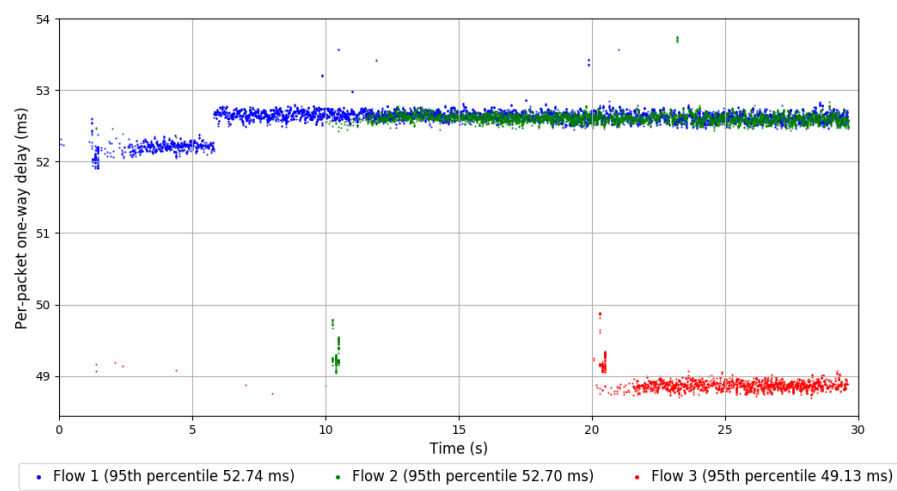
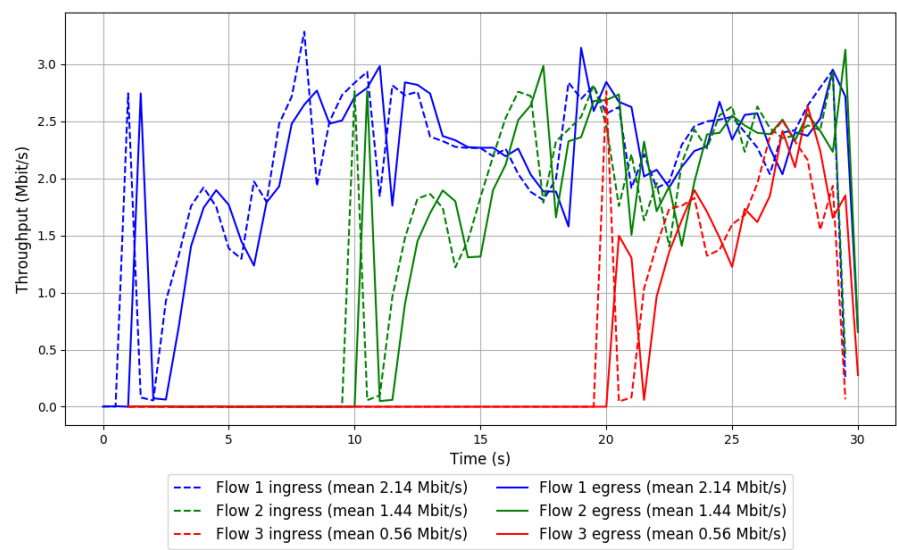


Run 1: Statistics of WebRTC media

Start at: 2018-08-03 10:55:27  
End at: 2018-08-03 10:55:57  
Local clock offset: -0.064 ms  
Remote clock offset: -1.385 ms

# Below is generated by plot.py at 2018-08-03 17:53:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.04 Mbit/s  
95th percentile per-packet one-way delay: 52.722 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.14 Mbit/s  
95th percentile per-packet one-way delay: 52.736 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.44 Mbit/s  
95th percentile per-packet one-way delay: 52.701 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.56 Mbit/s  
95th percentile per-packet one-way delay: 49.133 ms  
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

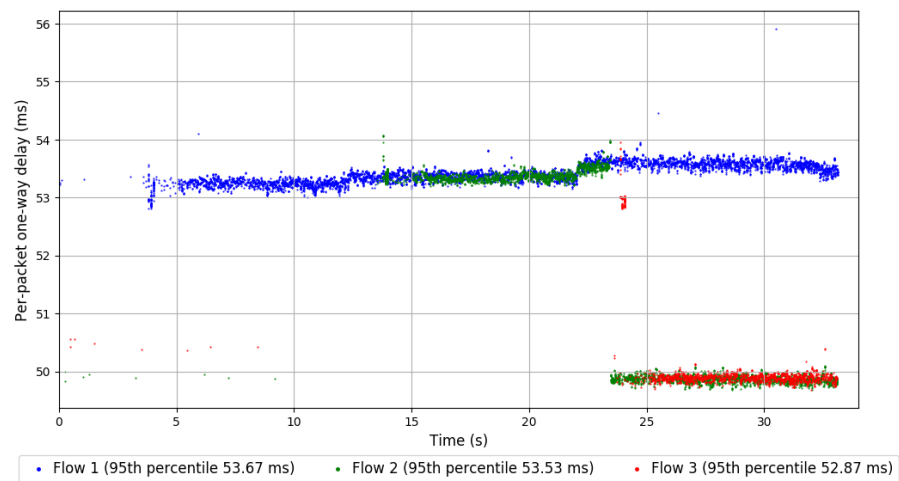
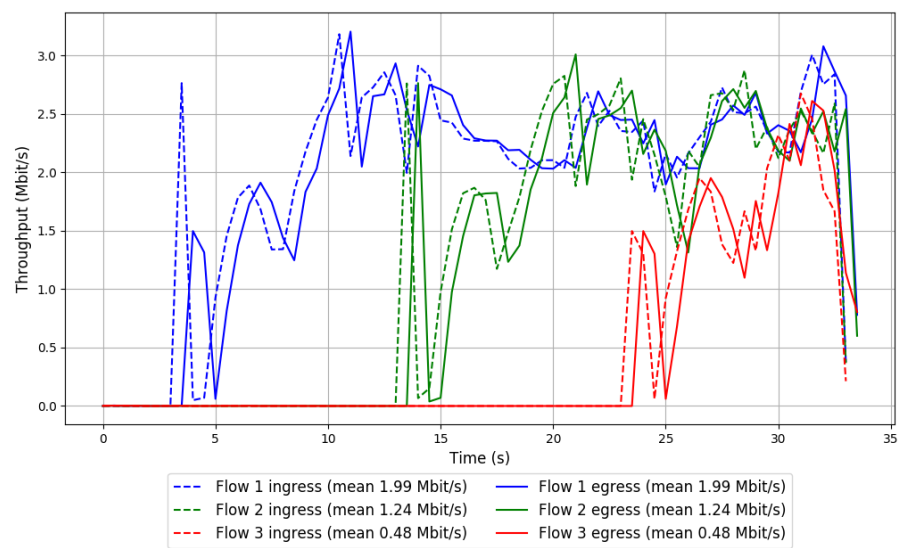


Run 2: Statistics of WebRTC media

Start at: 2018-08-03 11:20:54  
End at: 2018-08-03 11:21:24  
Local clock offset: 0.184 ms  
Remote clock offset: -0.134 ms

# Below is generated by plot.py at 2018-08-03 17:53:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.70 Mbit/s  
95th percentile per-packet one-way delay: 53.640 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.99 Mbit/s  
95th percentile per-packet one-way delay: 53.668 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.24 Mbit/s  
95th percentile per-packet one-way delay: 53.527 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.48 Mbit/s  
95th percentile per-packet one-way delay: 52.873 ms  
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

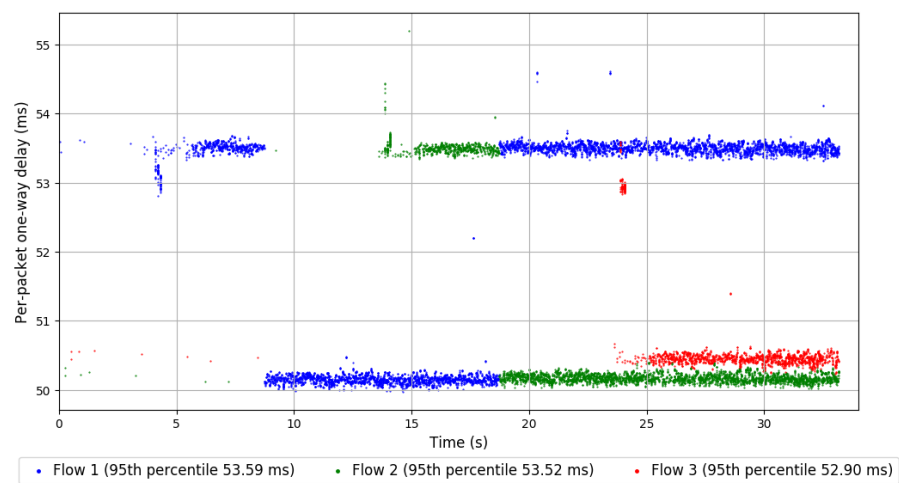
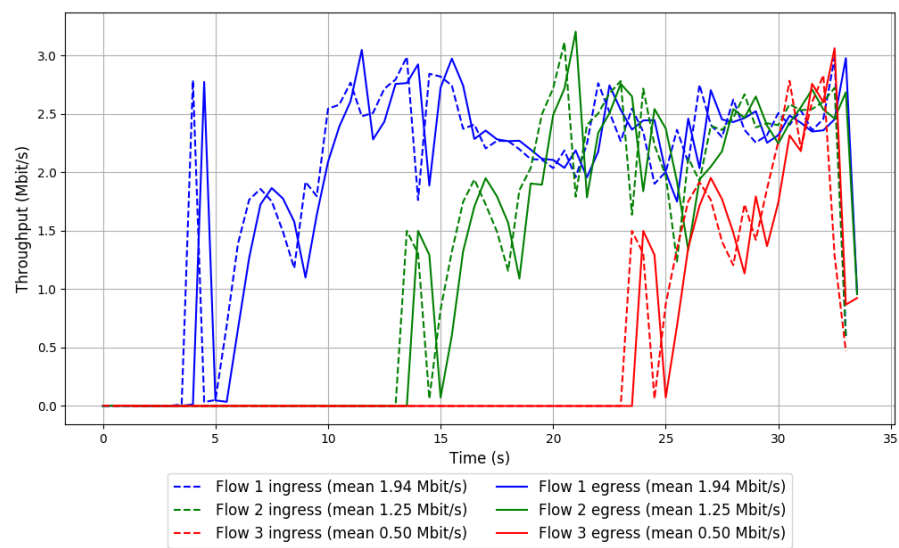


Run 3: Statistics of WebRTC media

Start at: 2018-08-03 11:46:29  
End at: 2018-08-03 11:46:59  
Local clock offset: 0.132 ms  
Remote clock offset: -0.136 ms

# Below is generated by plot.py at 2018-08-03 17:53:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.66 Mbit/s  
95th percentile per-packet one-way delay: 53.571 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.94 Mbit/s  
95th percentile per-packet one-way delay: 53.590 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.25 Mbit/s  
95th percentile per-packet one-way delay: 53.525 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.50 Mbit/s  
95th percentile per-packet one-way delay: 52.902 ms  
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-08-03 12:11:45

End at: 2018-08-03 12:12:15

Local clock offset: -0.035 ms

Remote clock offset: -0.19 ms

# Below is generated by plot.py at 2018-08-03 17:53:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.65 Mbit/s

95th percentile per-packet one-way delay: 53.692 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 50.334 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.24 Mbit/s

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

Loss rate: 0.00%

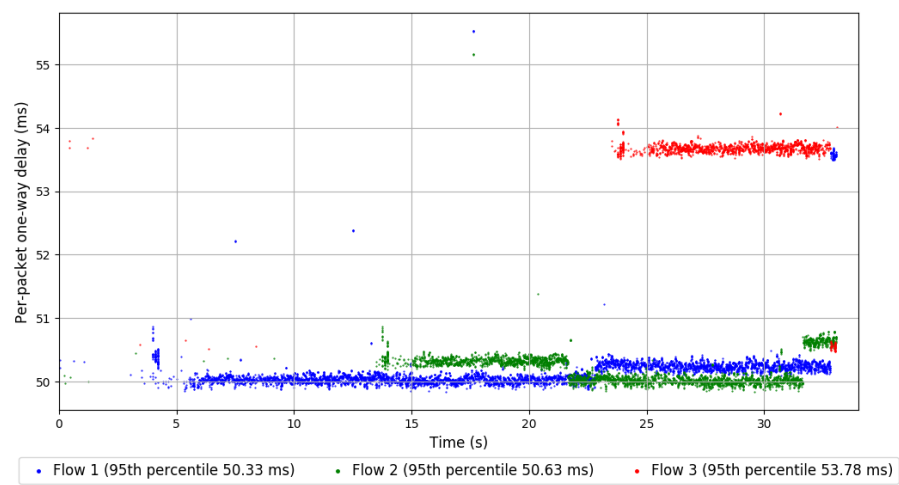
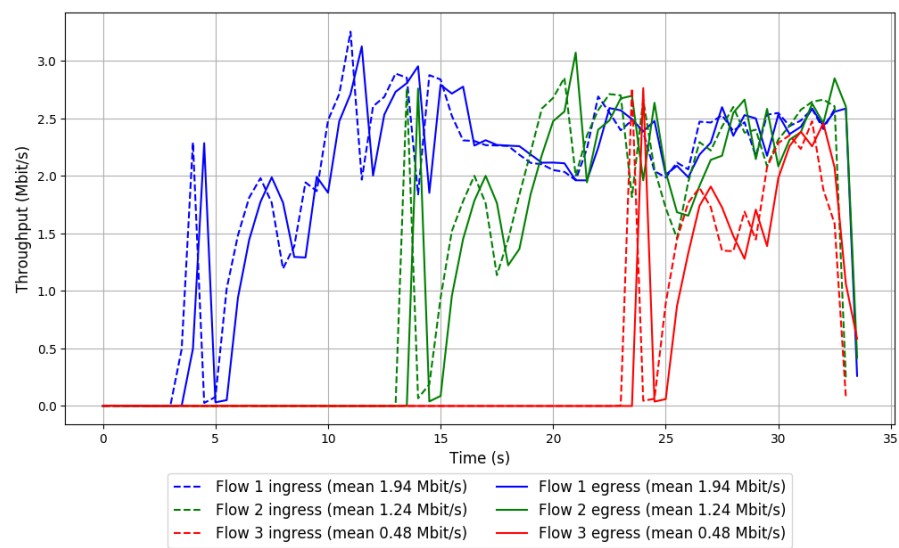
-- Flow 3:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 53.776 ms

Loss rate: 0.19%

Run 4: Report of WebRTC media — Data Link

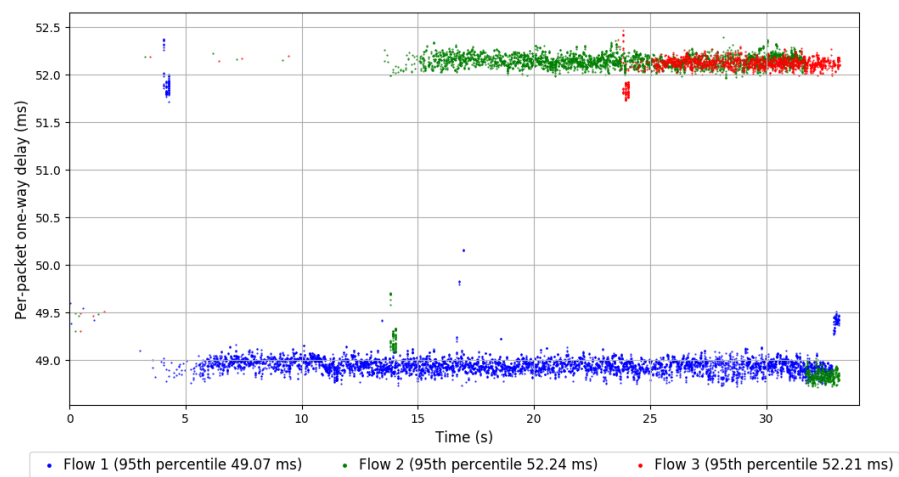
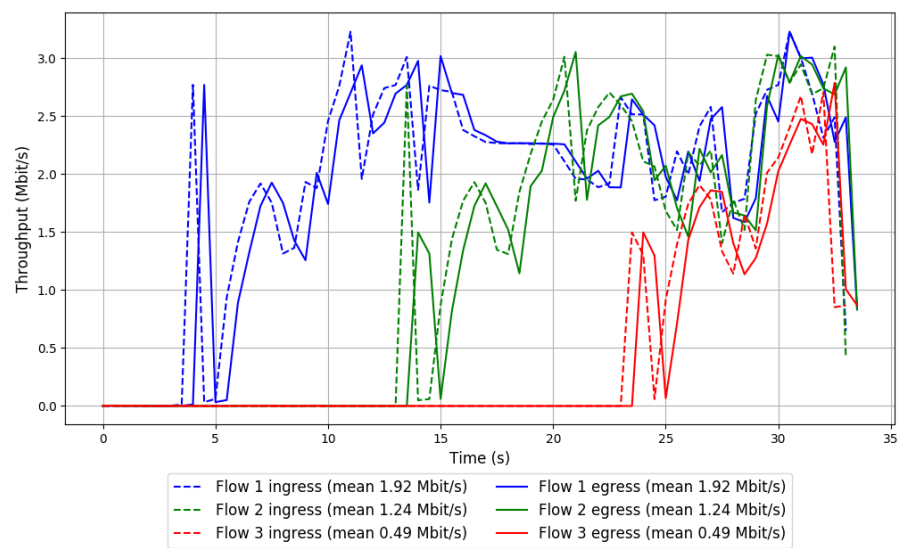


Run 5: Statistics of WebRTC media

Start at: 2018-08-03 12:37:05  
End at: 2018-08-03 12:37:35  
Local clock offset: -0.017 ms  
Remote clock offset: -1.388 ms

# Below is generated by plot.py at 2018-08-03 17:53:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.64 Mbit/s  
95th percentile per-packet one-way delay: 52.209 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.92 Mbit/s  
95th percentile per-packet one-way delay: 49.074 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.24 Mbit/s  
95th percentile per-packet one-way delay: 52.242 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.49 Mbit/s  
95th percentile per-packet one-way delay: 52.207 ms  
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-08-03 13:02:06

End at: 2018-08-03 13:02:36

Local clock offset: 0.123 ms

Remote clock offset: 1.188 ms

# Below is generated by plot.py at 2018-08-03 17:53:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.80 Mbit/s

95th percentile per-packet one-way delay: 55.117 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 54.939 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.25 Mbit/s

95th percentile per-packet one-way delay: 55.031 ms

Loss rate: 0.00%

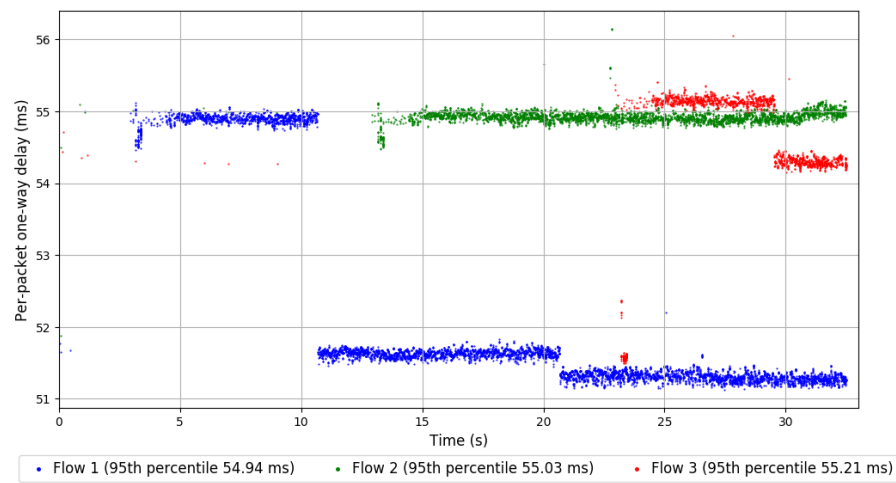
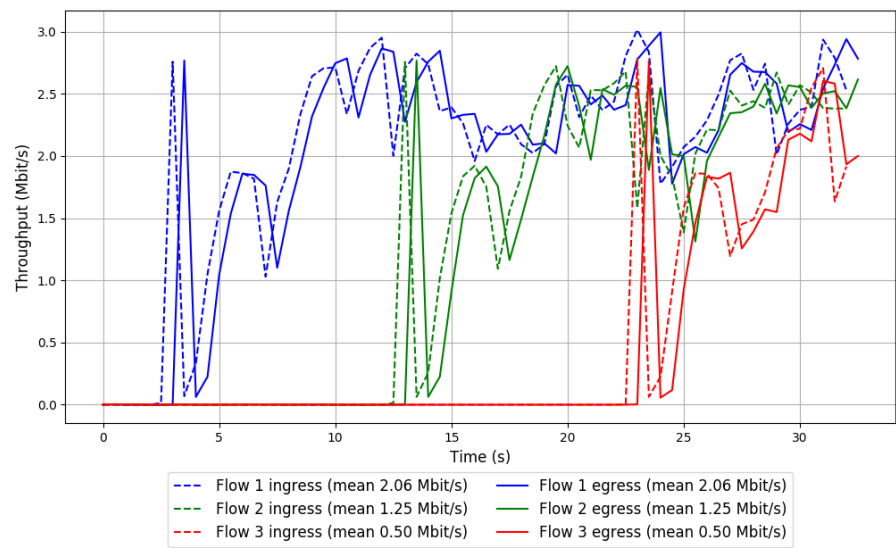
-- Flow 3:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 55.212 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

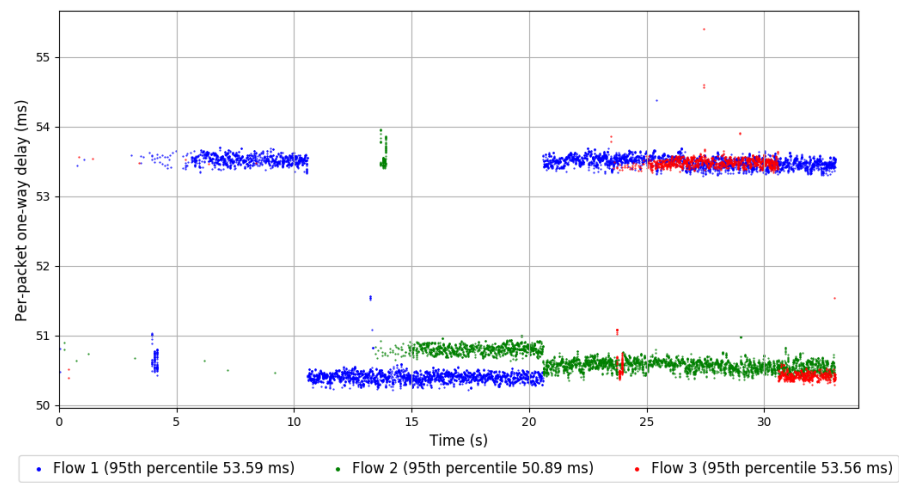
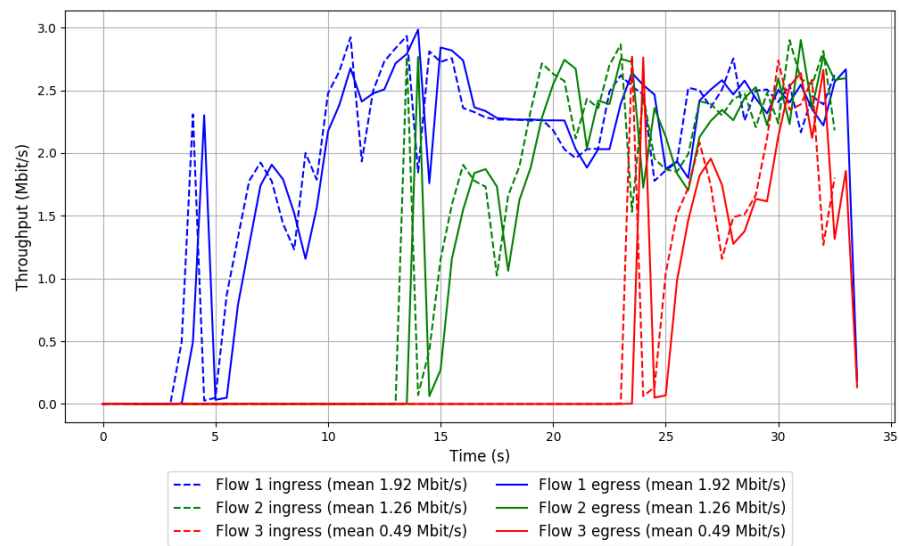


Run 7: Statistics of WebRTC media

Start at: 2018-08-03 13:27:27  
End at: 2018-08-03 13:27:57  
Local clock offset: -0.153 ms  
Remote clock offset: -0.152 ms

# Below is generated by plot.py at 2018-08-03 17:53:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.66 Mbit/s  
95th percentile per-packet one-way delay: 53.574 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.92 Mbit/s  
95th percentile per-packet one-way delay: 53.594 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.26 Mbit/s  
95th percentile per-packet one-way delay: 50.888 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.49 Mbit/s  
95th percentile per-packet one-way delay: 53.561 ms  
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link

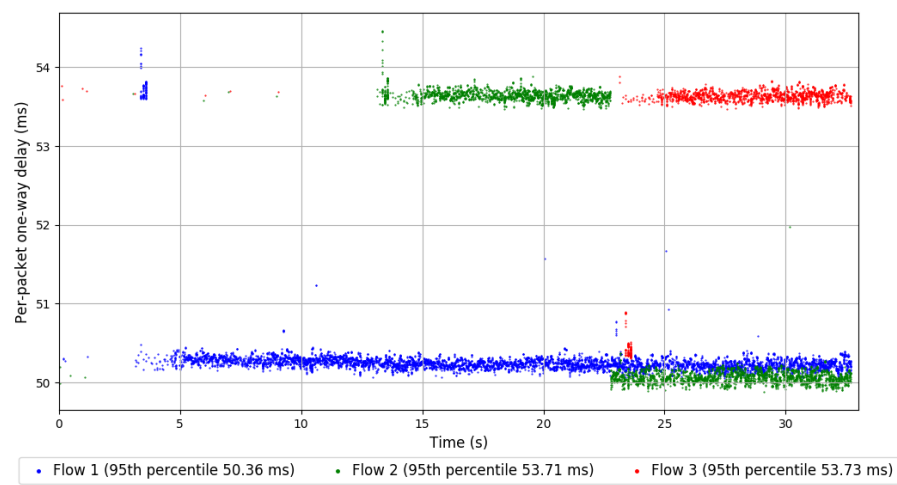
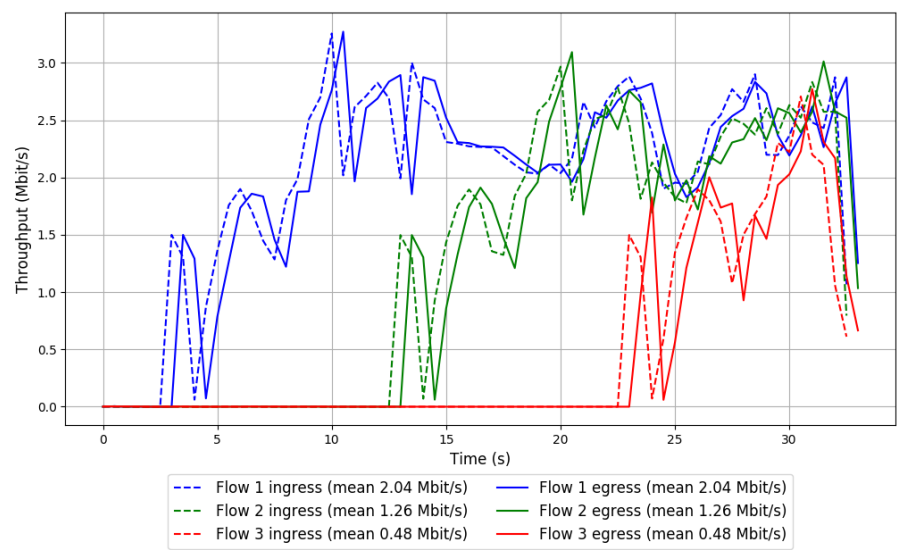


Run 8: Statistics of WebRTC media

Start at: 2018-08-03 13:52:54  
End at: 2018-08-03 13:53:24  
Local clock offset: 0.032 ms  
Remote clock offset: -0.158 ms

# Below is generated by plot.py at 2018-08-03 17:53:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.77 Mbit/s  
95th percentile per-packet one-way delay: 53.694 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 2.04 Mbit/s  
95th percentile per-packet one-way delay: 50.359 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.26 Mbit/s  
95th percentile per-packet one-way delay: 53.712 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.48 Mbit/s  
95th percentile per-packet one-way delay: 53.732 ms  
Loss rate: 0.06%

Run 8: Report of WebRTC media — Data Link

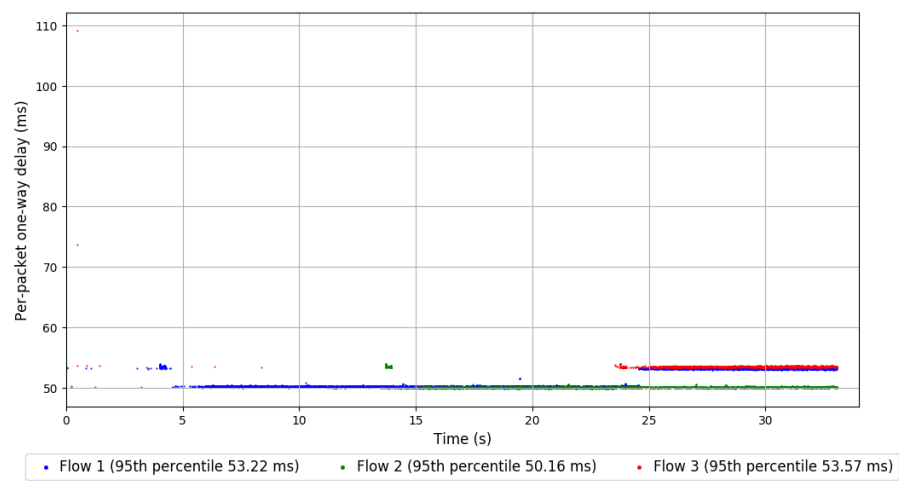
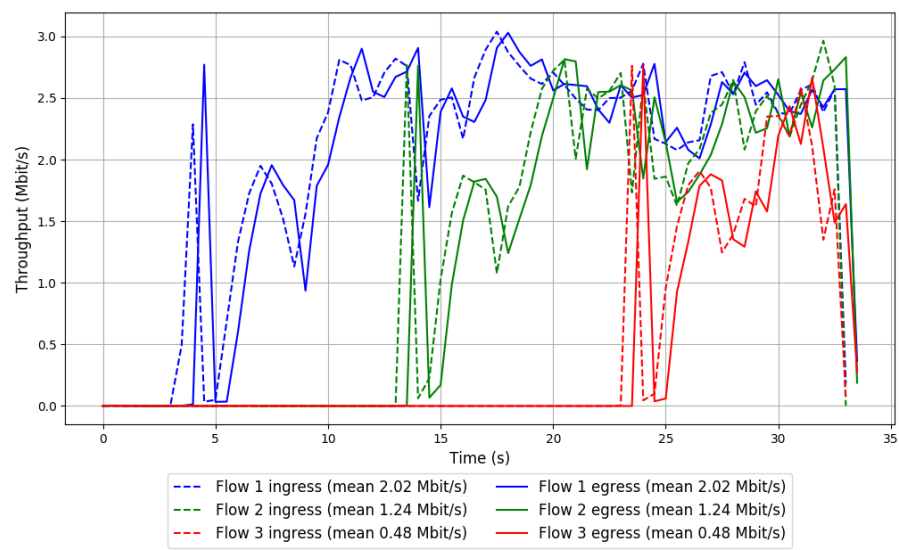


Run 9: Statistics of WebRTC media

Start at: 2018-08-03 14:17:43  
End at: 2018-08-03 14:18:13  
Local clock offset: 0.114 ms  
Remote clock offset: -0.358 ms

# Below is generated by plot.py at 2018-08-03 17:53:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.73 Mbit/s  
95th percentile per-packet one-way delay: 53.485 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.02 Mbit/s  
95th percentile per-packet one-way delay: 53.216 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.24 Mbit/s  
95th percentile per-packet one-way delay: 50.163 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.48 Mbit/s  
95th percentile per-packet one-way delay: 53.569 ms  
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-08-03 14:43:16

End at: 2018-08-03 14:43:46

Local clock offset: -0.008 ms

Remote clock offset: 0.072 ms

# Below is generated by plot.py at 2018-08-03 17:53:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.73 Mbit/s

95th percentile per-packet one-way delay: 54.161 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 54.205 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.25 Mbit/s

95th percentile per-packet one-way delay: 53.968 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 53.982 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

