

Pantheon Report

Generated at 2018-07-17 22:13:28 (UTC).

Data path: AWS Korea Ethernet (*local*) → China 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.

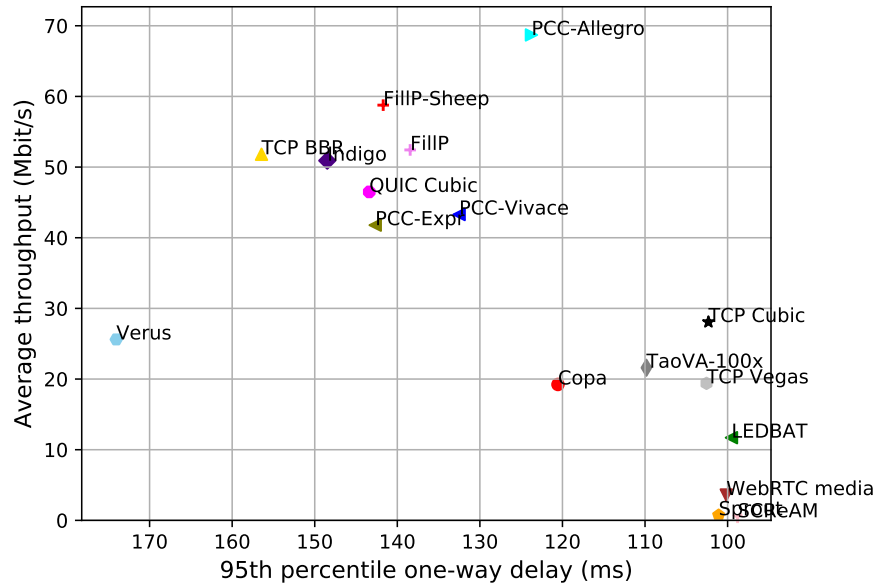
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

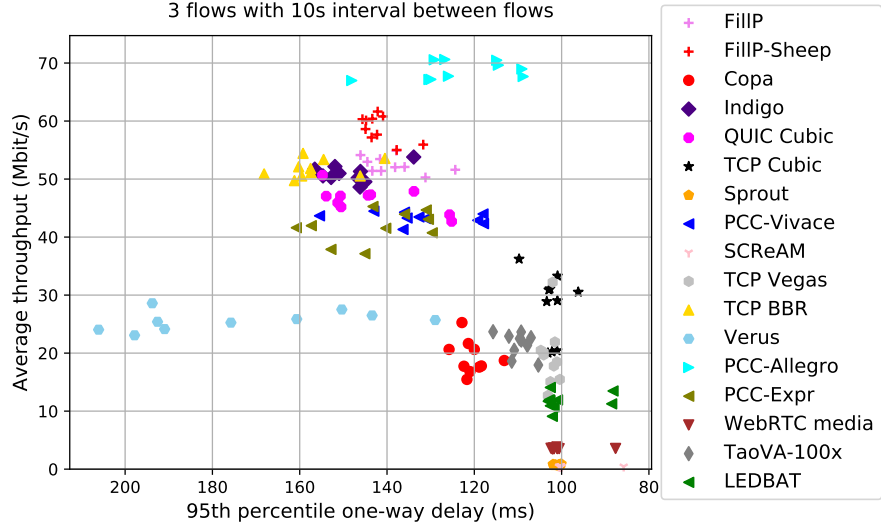
Git summary:

```
branch: master @ f7befc2d8410f41949e0ad8143a9aab40bab7edb
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-quirk @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webRTC @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

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



test from AWS Korea to China, 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	31.21	22.63	16.65	143.09	159.54	168.75	14.74	12.72	13.84
Copa	10	9.42	9.11	11.82	119.09	117.52	119.28	9.76	10.55	5.22
TCP Cubic	10	13.34	14.85	14.55	96.24	100.57	104.79	0.44	0.63	0.93
FillP	10	31.67	22.31	17.82	134.65	137.66	143.65	35.11	31.47	36.11
FillP-Sheep	10	35.94	24.26	20.22	139.55	138.97	144.66	29.83	30.24	19.01
Indigo	10	33.03	20.30	13.68	146.67	138.93	128.01	18.10	5.82	2.34
LEDBAT	10	6.37	6.13	3.83	97.31	96.25	92.08	0.34	0.22	0.11
PCC-Allegro	10	50.95	21.88	9.75	120.15	112.58	111.10	23.96	4.45	4.71
PCC-Expr	10	29.28	14.41	8.84	139.29	156.58	191.64	29.48	11.38	18.82
QUIC Cubic	10	25.73	22.85	17.15	139.38	135.75	144.86	2.54	1.63	3.52
SCReAM	10	0.22	0.22	0.22	90.25	91.64	94.60	0.01	0.00	0.07
Sprout	10	0.31	0.37	0.55	97.06	98.46	93.58	0.03	0.03	0.02
TaoVA-100x	10	11.26	11.34	9.21	109.64	107.23	113.93	2.55	3.13	5.77
TCP Vegas	10	8.04	11.84	10.44	100.24	92.47	108.09	0.79	0.74	0.80
Verus	10	16.78	11.62	5.75	170.86	155.74	149.37	85.22	71.36	46.22
PCC-Vivace	10	34.49	9.92	6.65	132.64	111.51	106.07	7.37	1.24	0.30
WebRTC media	10	1.92	1.24	0.44	97.89	94.86	91.22	0.05	0.05	0.10

Run 1: Statistics of TCP BBR

Start at: 2018-07-17 16:53:53

End at: 2018-07-17 16:54:23

Local clock offset: 5.89 ms

Remote clock offset: 0.903 ms

Below is generated by plot.py at 2018-07-17 22:00:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.74 Mbit/s

95th percentile per-packet one-way delay: 161.207 ms

Loss rate: 11.46%

-- Flow 1:

Average throughput: 30.28 Mbit/s

95th percentile per-packet one-way delay: 155.630 ms

Loss rate: 13.17%

-- Flow 2:

Average throughput: 19.94 Mbit/s

95th percentile per-packet one-way delay: 162.732 ms

Loss rate: 7.55%

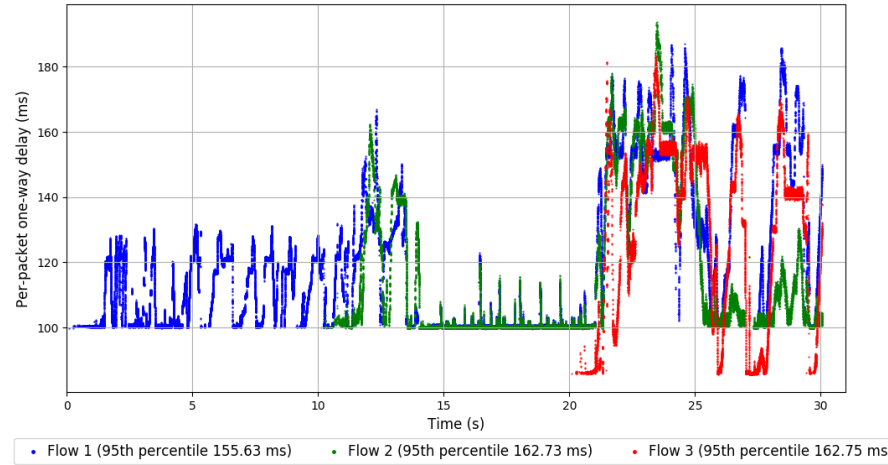
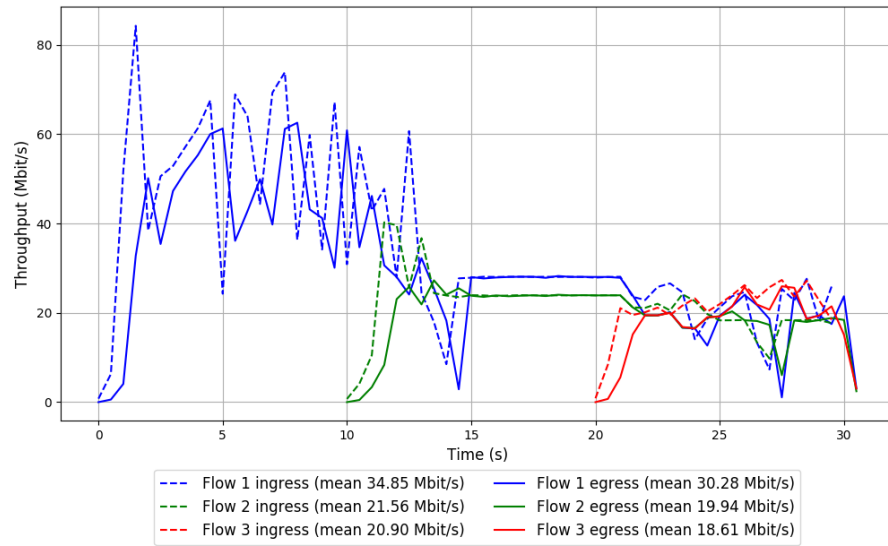
-- Flow 3:

Average throughput: 18.61 Mbit/s

95th percentile per-packet one-way delay: 162.755 ms

Loss rate: 10.94%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-07-17 17:31:08

End at: 2018-07-17 17:31:38

Local clock offset: 7.131 ms

Remote clock offset: 1.199 ms

Below is generated by plot.py at 2018-07-17 22:00:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.37 Mbit/s

95th percentile per-packet one-way delay: 154.533 ms

Loss rate: 13.95%

-- Flow 1:

Average throughput: 34.41 Mbit/s

95th percentile per-packet one-way delay: 130.390 ms

Loss rate: 15.19%

-- Flow 2:

Average throughput: 20.87 Mbit/s

95th percentile per-packet one-way delay: 161.621 ms

Loss rate: 11.01%

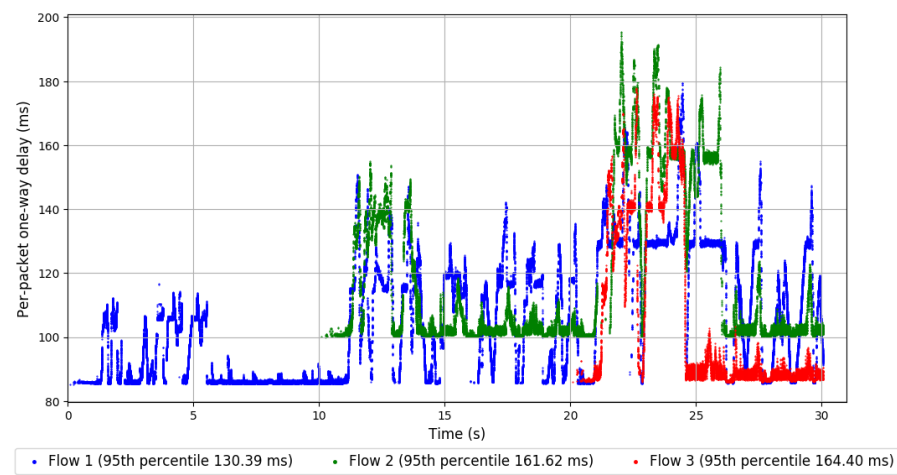
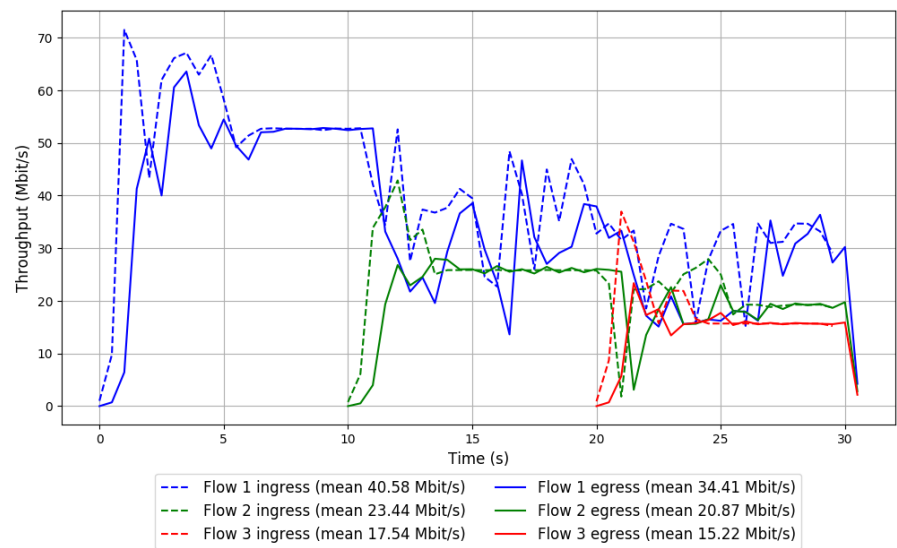
-- Flow 3:

Average throughput: 15.22 Mbit/s

95th percentile per-packet one-way delay: 164.398 ms

Loss rate: 13.20%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-07-17 18:01:14

End at: 2018-07-17 18:01:44

Local clock offset: -2.417 ms

Remote clock offset: 1.248 ms

Below is generated by plot.py at 2018-07-17 22:00:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 54.43 Mbit/s

95th percentile per-packet one-way delay: 159.237 ms

Loss rate: 13.50%

-- Flow 1:

Average throughput: 33.56 Mbit/s

95th percentile per-packet one-way delay: 151.270 ms

Loss rate: 15.85%

-- Flow 2:

Average throughput: 23.18 Mbit/s

95th percentile per-packet one-way delay: 168.265 ms

Loss rate: 6.52%

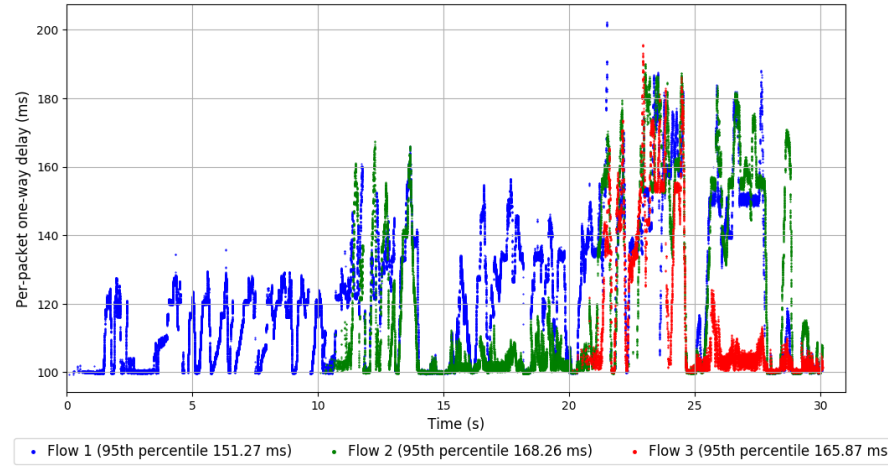
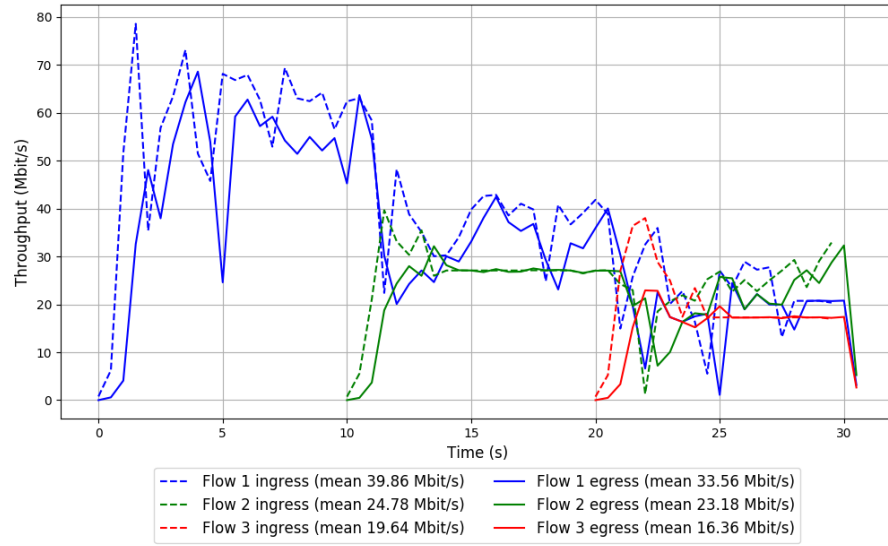
-- Flow 3:

Average throughput: 16.36 Mbit/s

95th percentile per-packet one-way delay: 165.871 ms

Loss rate: 16.82%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-07-17 18:31:12

End at: 2018-07-17 18:31:42

Local clock offset: -6.299 ms

Remote clock offset: 1.28 ms

Below is generated by plot.py at 2018-07-17 22:00:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 52.12 Mbit/s

95th percentile per-packet one-way delay: 160.241 ms

Loss rate: 15.25%

-- Flow 1:

Average throughput: 30.78 Mbit/s

95th percentile per-packet one-way delay: 145.723 ms

Loss rate: 14.84%

-- Flow 2:

Average throughput: 22.94 Mbit/s

95th percentile per-packet one-way delay: 162.644 ms

Loss rate: 16.94%

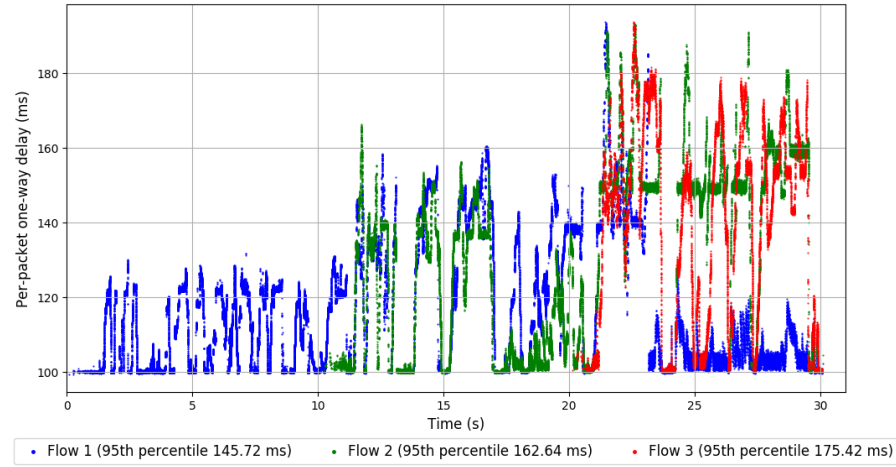
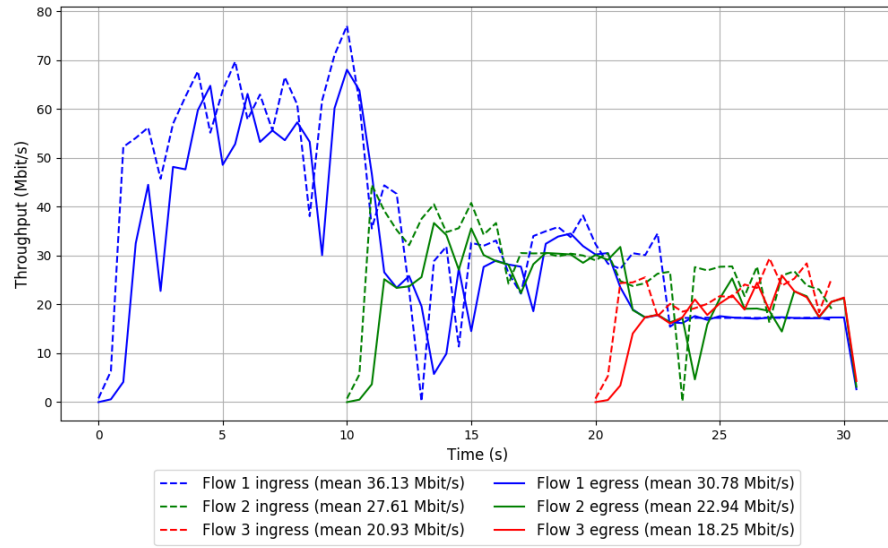
-- Flow 3:

Average throughput: 18.25 Mbit/s

95th percentile per-packet one-way delay: 175.423 ms

Loss rate: 12.89%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-07-17 19:01:42

End at: 2018-07-17 19:02:12

Local clock offset: 6.201 ms

Remote clock offset: 1.354 ms

Below is generated by plot.py at 2018-07-17 22:00:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 50.89 Mbit/s

95th percentile per-packet one-way delay: 168.155 ms

Loss rate: 15.96%

-- Flow 1:

Average throughput: 31.16 Mbit/s

95th percentile per-packet one-way delay: 159.016 ms

Loss rate: 15.75%

-- Flow 2:

Average throughput: 21.74 Mbit/s

95th percentile per-packet one-way delay: 175.823 ms

Loss rate: 15.51%

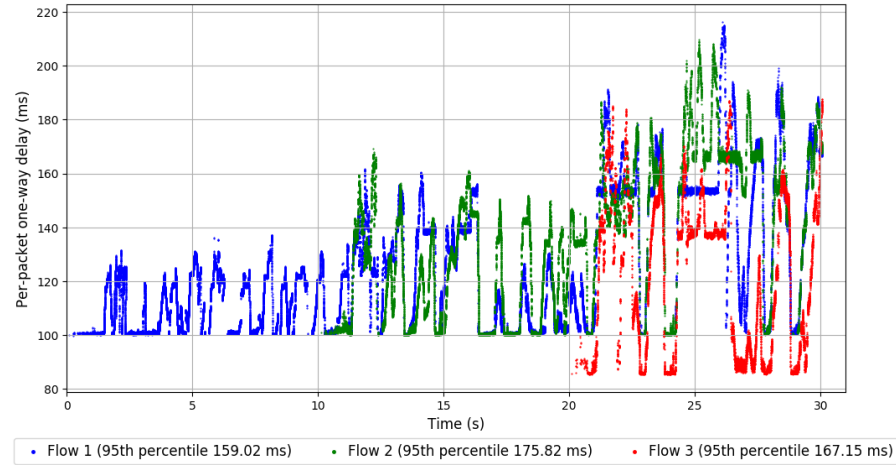
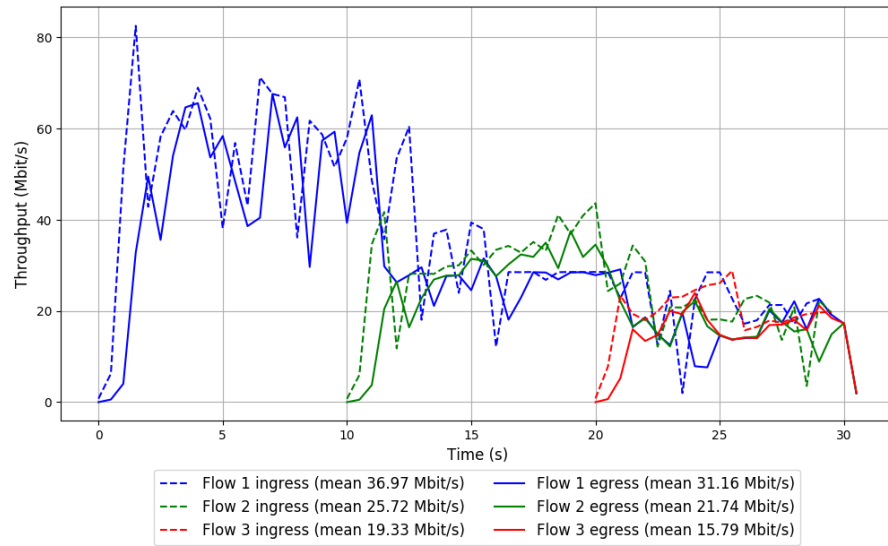
-- Flow 3:

Average throughput: 15.79 Mbit/s

95th percentile per-packet one-way delay: 167.147 ms

Loss rate: 18.32%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-07-17 19:33:02

End at: 2018-07-17 19:33:32

Local clock offset: 5.862 ms

Remote clock offset: 1.245 ms

Below is generated by plot.py at 2018-07-17 22:00:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 50.54 Mbit/s

95th percentile per-packet one-way delay: 146.142 ms

Loss rate: 17.97%

-- Flow 1:

Average throughput: 31.85 Mbit/s

95th percentile per-packet one-way delay: 137.988 ms

Loss rate: 21.76%

-- Flow 2:

Average throughput: 20.26 Mbit/s

95th percentile per-packet one-way delay: 147.530 ms

Loss rate: 11.06%

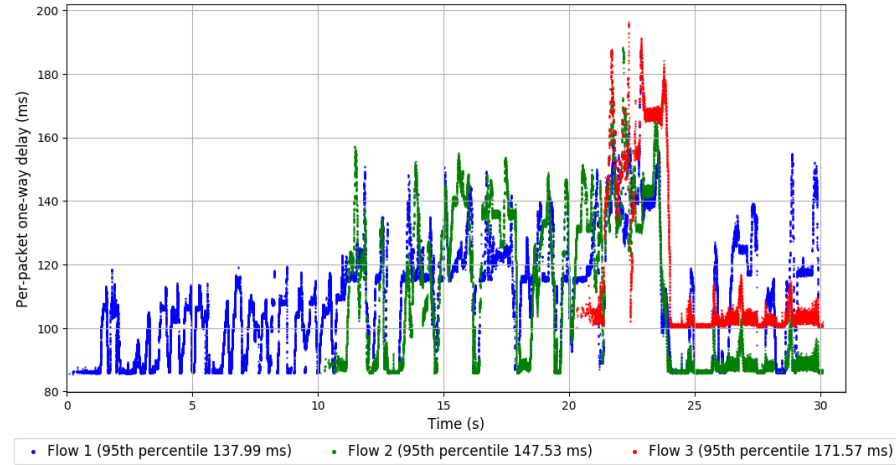
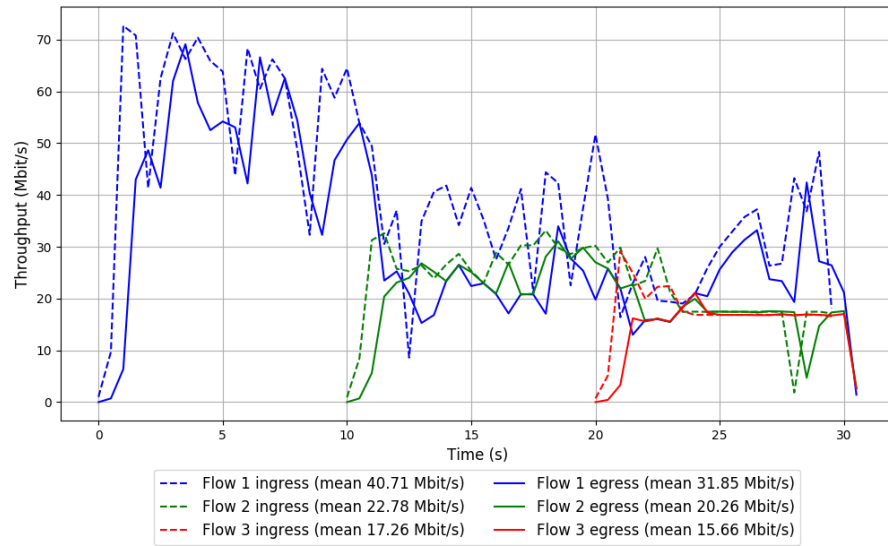
-- Flow 3:

Average throughput: 15.66 Mbit/s

95th percentile per-packet one-way delay: 171.571 ms

Loss rate: 9.38%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-07-17 20:06:49

End at: 2018-07-17 20:07:19

Local clock offset: 4.478 ms

Remote clock offset: 1.028 ms

Below is generated by plot.py at 2018-07-17 22:00:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.57 Mbit/s

95th percentile per-packet one-way delay: 140.480 ms

Loss rate: 11.53%

-- Flow 1:

Average throughput: 30.52 Mbit/s

95th percentile per-packet one-way delay: 131.932 ms

Loss rate: 11.14%

-- Flow 2:

Average throughput: 26.30 Mbit/s

95th percentile per-packet one-way delay: 139.361 ms

Loss rate: 12.67%

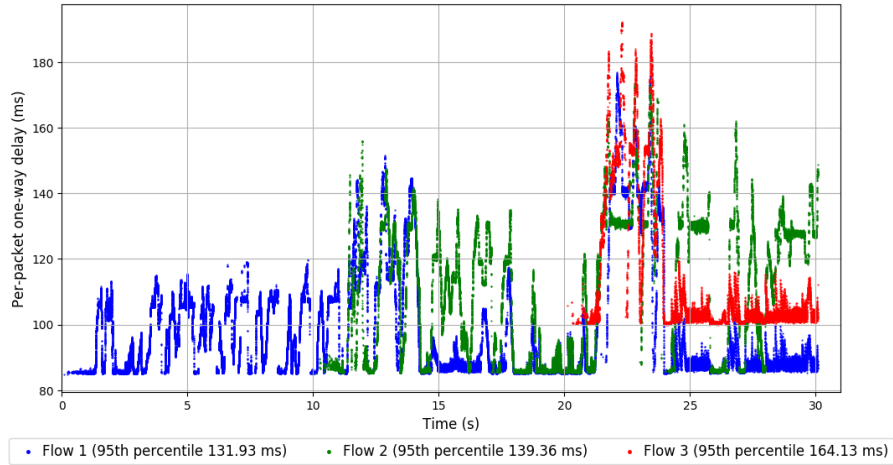
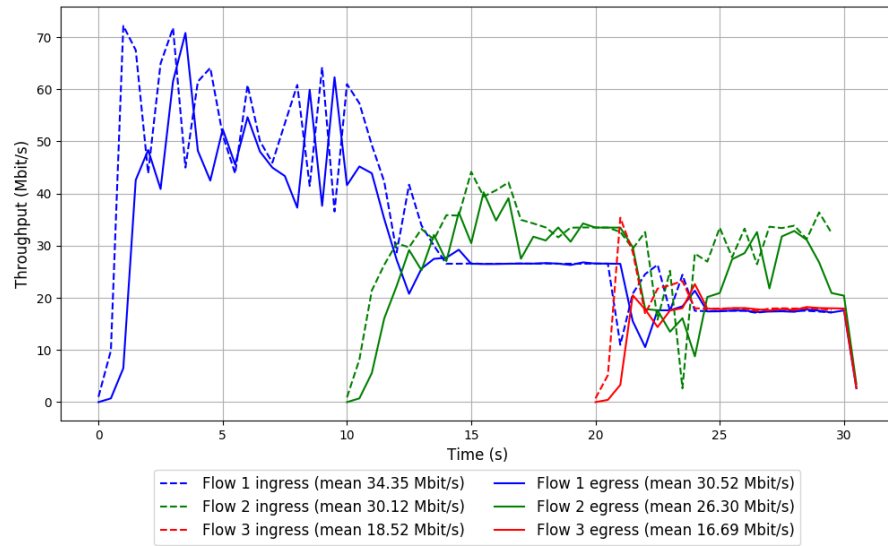
-- Flow 3:

Average throughput: 16.69 Mbit/s

95th percentile per-packet one-way delay: 164.135 ms

Loss rate: 9.98%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-07-17 20:42:20

End at: 2018-07-17 20:42:50

Local clock offset: 6.346 ms

Remote clock offset: 0.808 ms

Below is generated by plot.py at 2018-07-17 22:00:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 51.11 Mbit/s

95th percentile per-packet one-way delay: 157.398 ms

Loss rate: 18.82%

-- Flow 1:

Average throughput: 28.22 Mbit/s

95th percentile per-packet one-way delay: 133.820 ms

Loss rate: 13.69%

-- Flow 2:

Average throughput: 25.73 Mbit/s

95th percentile per-packet one-way delay: 145.623 ms

Loss rate: 21.98%

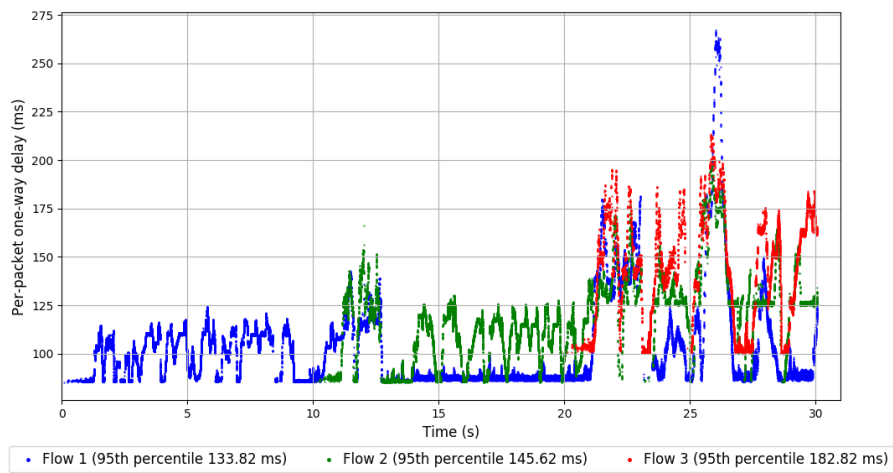
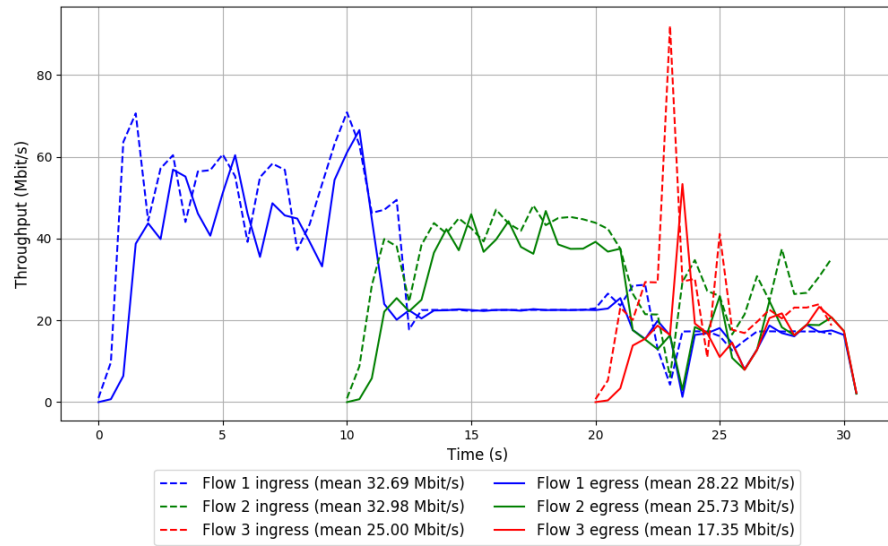
-- Flow 3:

Average throughput: 17.35 Mbit/s

95th percentile per-packet one-way delay: 182.825 ms

Loss rate: 30.70%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-07-17 21:14:48

End at: 2018-07-17 21:15:18

Local clock offset: 6.477 ms

Remote clock offset: 0.975 ms

Below is generated by plot.py at 2018-07-17 22:01:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 50.54 Mbit/s

95th percentile per-packet one-way delay: 159.554 ms

Loss rate: 10.93%

-- Flow 1:

Average throughput: 31.66 Mbit/s

95th percentile per-packet one-way delay: 143.787 ms

Loss rate: 12.45%

-- Flow 2:

Average throughput: 20.26 Mbit/s

95th percentile per-packet one-way delay: 163.973 ms

Loss rate: 7.73%

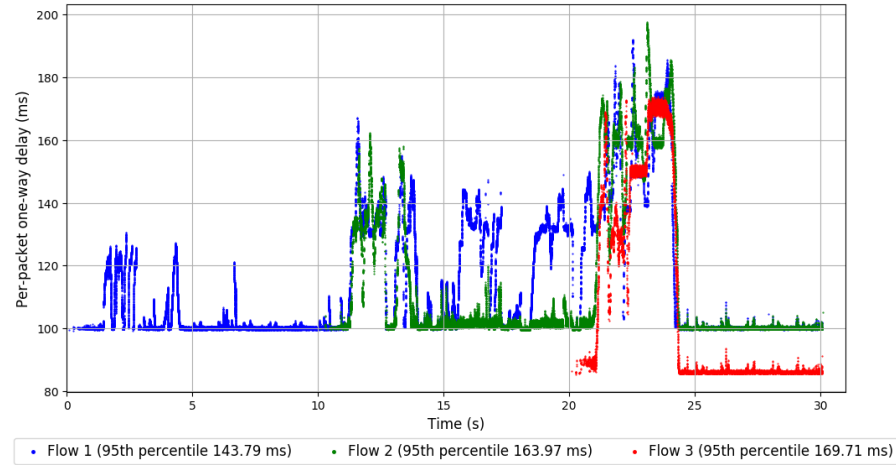
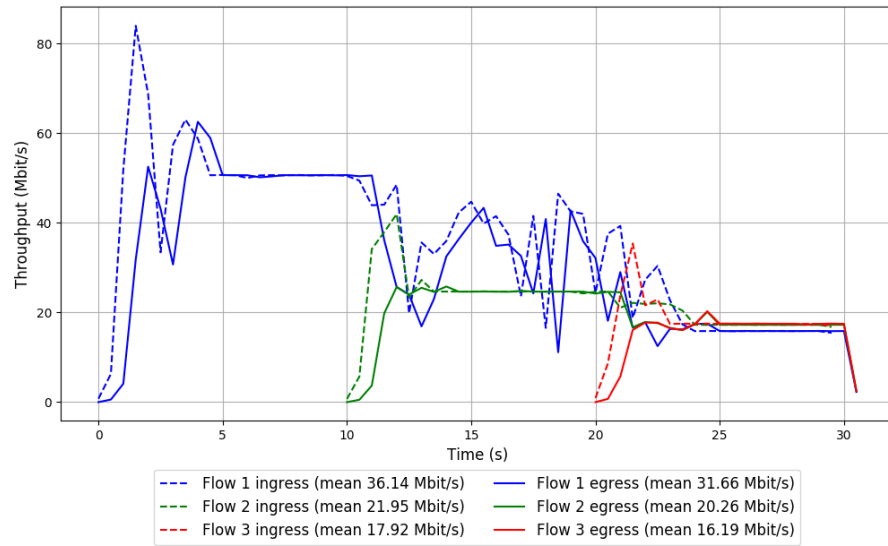
-- Flow 3:

Average throughput: 16.19 Mbit/s

95th percentile per-packet one-way delay: 169.707 ms

Loss rate: 9.63%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-07-17 21:44:32

End at: 2018-07-17 21:45:02

Local clock offset: 4.14 ms

Remote clock offset: 1.016 ms

Below is generated by plot.py at 2018-07-17 22:01:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 51.83 Mbit/s

95th percentile per-packet one-way delay: 157.503 ms

Loss rate: 13.75%

-- Flow 1:

Average throughput: 29.68 Mbit/s

95th percentile per-packet one-way delay: 141.334 ms

Loss rate: 13.54%

-- Flow 2:

Average throughput: 25.12 Mbit/s

95th percentile per-packet one-way delay: 167.868 ms

Loss rate: 16.20%

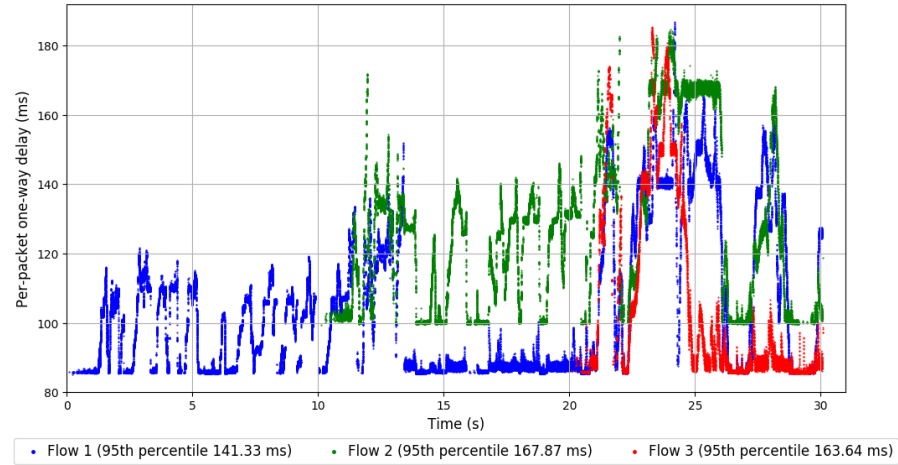
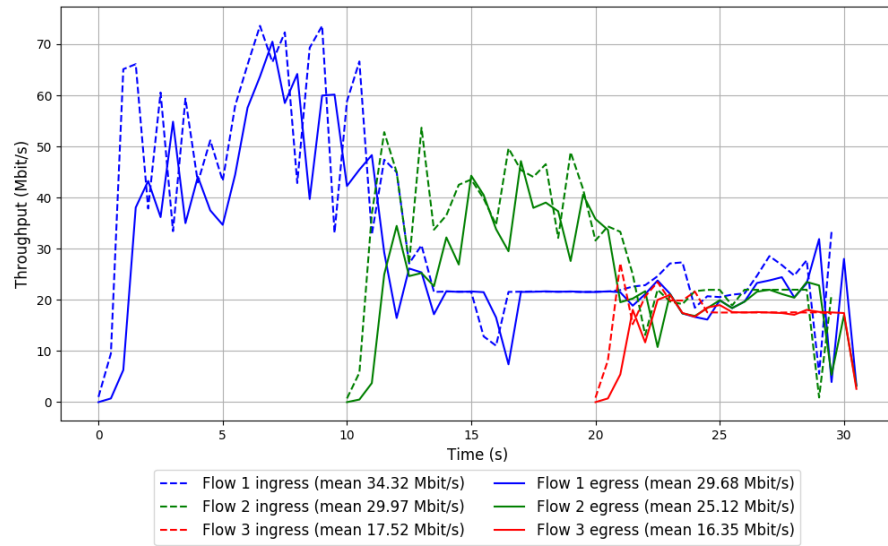
-- Flow 3:

Average throughput: 16.35 Mbit/s

95th percentile per-packet one-way delay: 163.642 ms

Loss rate: 6.59%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-07-17 16:51:55

End at: 2018-07-17 16:52:25

Local clock offset: 5.752 ms

Remote clock offset: 0.766 ms

Below is generated by plot.py at 2018-07-17 22:01:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.64 Mbit/s

95th percentile per-packet one-way delay: 120.001 ms

Loss rate: 10.72%

-- Flow 1:

Average throughput: 7.91 Mbit/s

95th percentile per-packet one-way delay: 121.842 ms

Loss rate: 11.12%

-- Flow 2:

Average throughput: 12.55 Mbit/s

95th percentile per-packet one-way delay: 109.605 ms

Loss rate: 13.17%

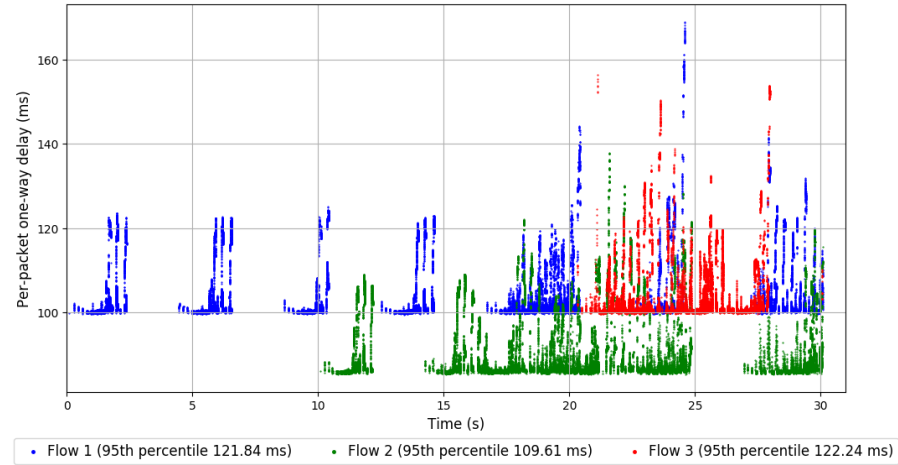
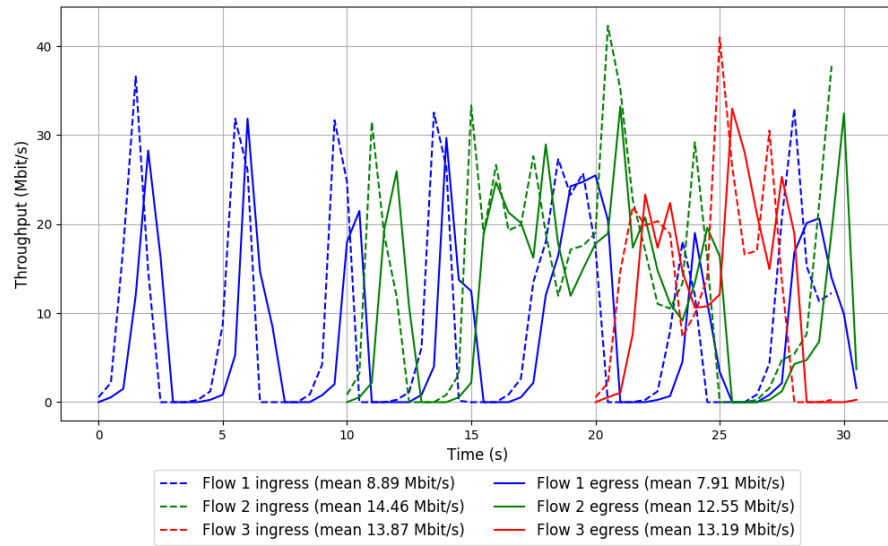
-- Flow 3:

Average throughput: 13.19 Mbit/s

95th percentile per-packet one-way delay: 122.238 ms

Loss rate: 4.82%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-07-17 17:24:00

End at: 2018-07-17 17:24:30

Local clock offset: 6.877 ms

Remote clock offset: 1.128 ms

Below is generated by plot.py at 2018-07-17 22:01:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 25.27 Mbit/s

95th percentile per-packet one-way delay: 122.831 ms

Loss rate: 4.39%

-- Flow 1:

Average throughput: 15.45 Mbit/s

95th percentile per-packet one-way delay: 120.130 ms

Loss rate: 2.96%

-- Flow 2:

Average throughput: 10.99 Mbit/s

95th percentile per-packet one-way delay: 129.628 ms

Loss rate: 7.51%

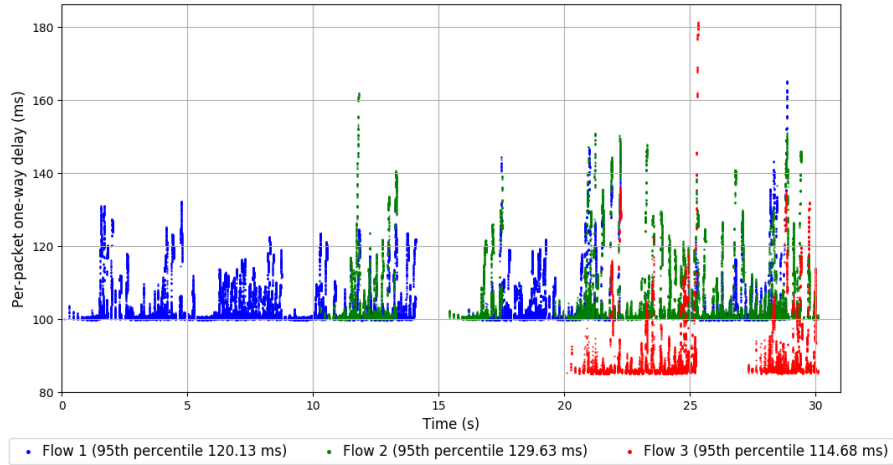
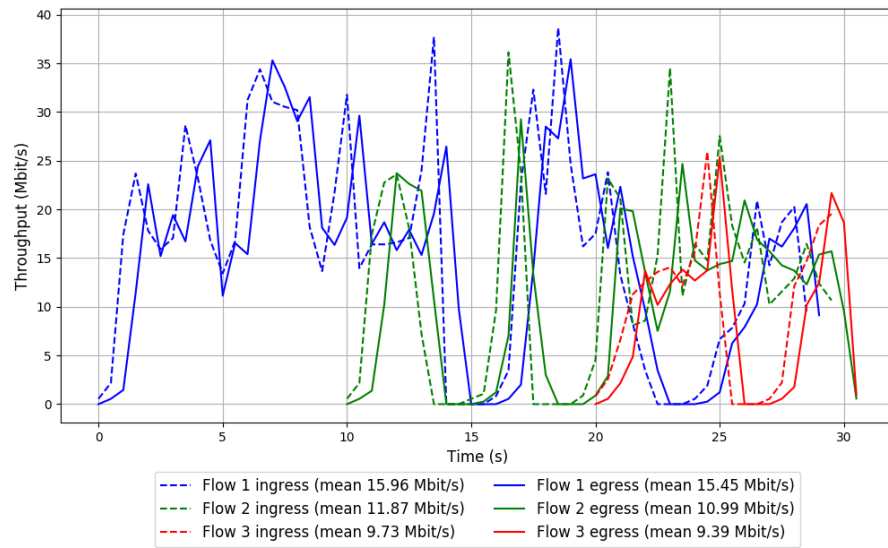
-- Flow 3:

Average throughput: 9.39 Mbit/s

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

Loss rate: 3.50%

Run 2: Report of Copa — Data Link

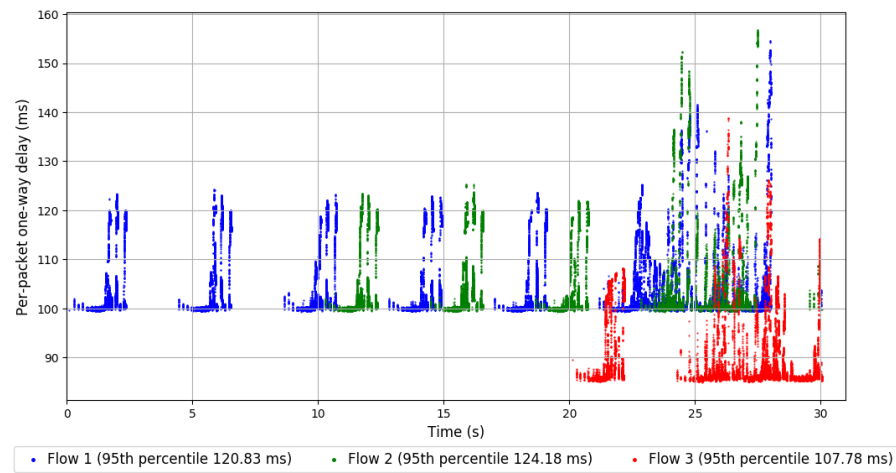
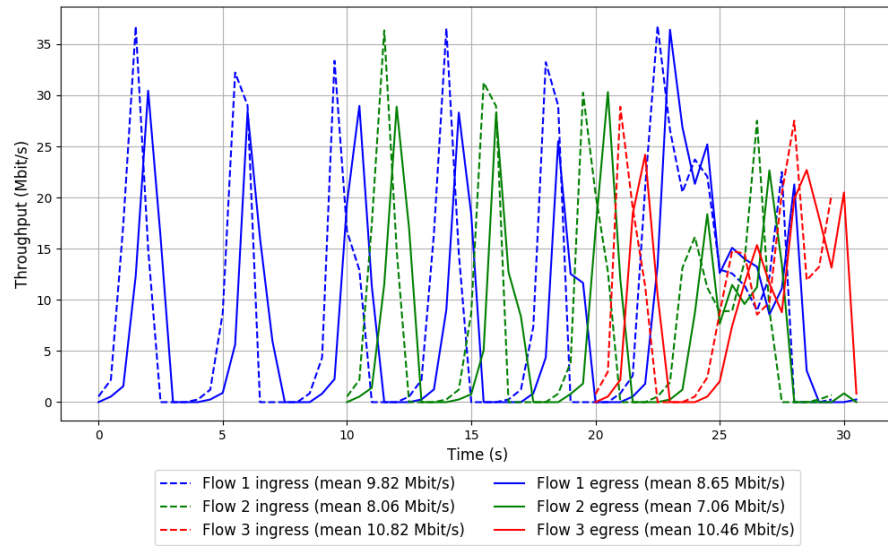


Run 3: Statistics of Copa

Start at: 2018-07-17 17:59:30
End at: 2018-07-17 18:00:00
Local clock offset: -2.248 ms
Remote clock offset: 1.277 ms

Below is generated by plot.py at 2018-07-17 22:01:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 16.82 Mbit/s
95th percentile per-packet one-way delay: 120.996 ms
Loss rate: 10.41%
-- Flow 1:
Average throughput: 8.65 Mbit/s
95th percentile per-packet one-way delay: 120.825 ms
Loss rate: 11.89%
-- Flow 2:
Average throughput: 7.06 Mbit/s
95th percentile per-packet one-way delay: 124.178 ms
Loss rate: 12.39%
-- Flow 3:
Average throughput: 10.46 Mbit/s
95th percentile per-packet one-way delay: 107.778 ms
Loss rate: 3.41%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-07-17 18:29:37

End at: 2018-07-17 18:30:07

Local clock offset: -6.077 ms

Remote clock offset: 1.269 ms

Below is generated by plot.py at 2018-07-17 22:01:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.47 Mbit/s

95th percentile per-packet one-way delay: 121.693 ms

Loss rate: 10.54%

-- Flow 1:

Average throughput: 7.36 Mbit/s

95th percentile per-packet one-way delay: 121.437 ms

Loss rate: 12.06%

-- Flow 2:

Average throughput: 6.61 Mbit/s

95th percentile per-packet one-way delay: 118.753 ms

Loss rate: 11.28%

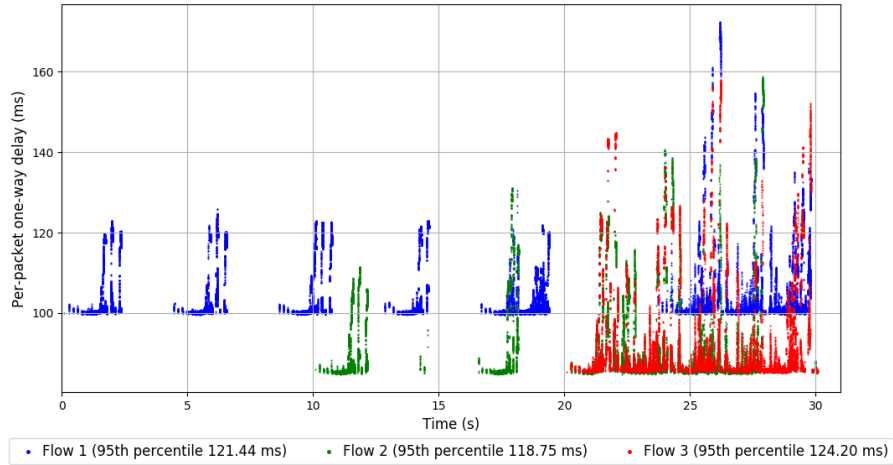
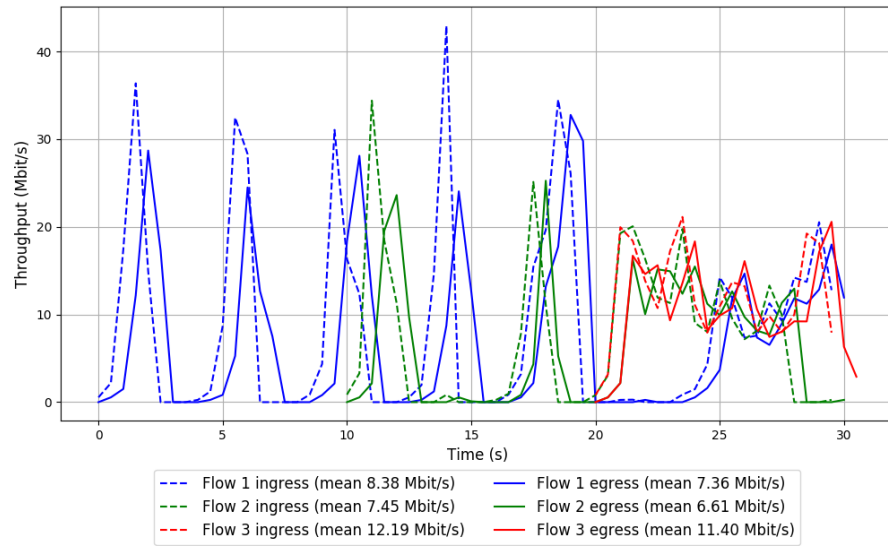
-- Flow 3:

Average throughput: 11.40 Mbit/s

95th percentile per-packet one-way delay: 124.204 ms

Loss rate: 6.53%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-07-17 19:00:00

End at: 2018-07-17 19:00:30

Local clock offset: 5.56 ms

Remote clock offset: 1.425 ms

Below is generated by plot.py at 2018-07-17 22:01:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.63 Mbit/s

95th percentile per-packet one-way delay: 125.785 ms

Loss rate: 8.02%

-- Flow 1:

Average throughput: 8.27 Mbit/s

95th percentile per-packet one-way delay: 129.969 ms

Loss rate: 10.89%

-- Flow 2:

Average throughput: 12.05 Mbit/s

95th percentile per-packet one-way delay: 111.459 ms

Loss rate: 7.68%

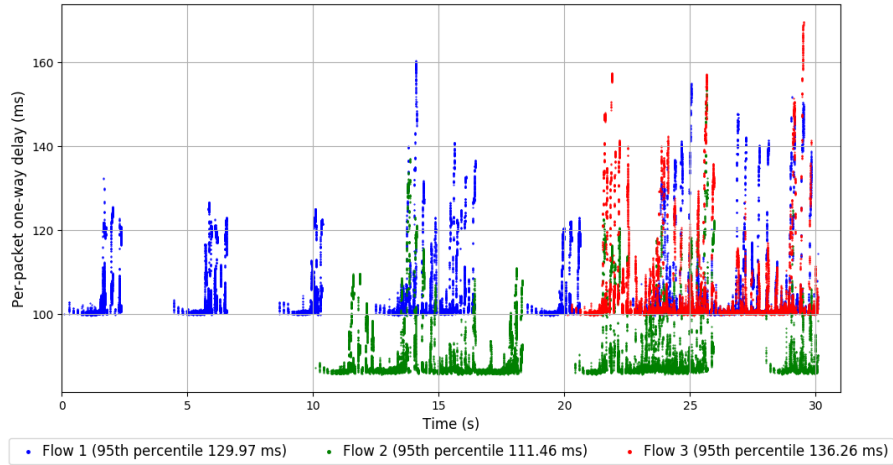
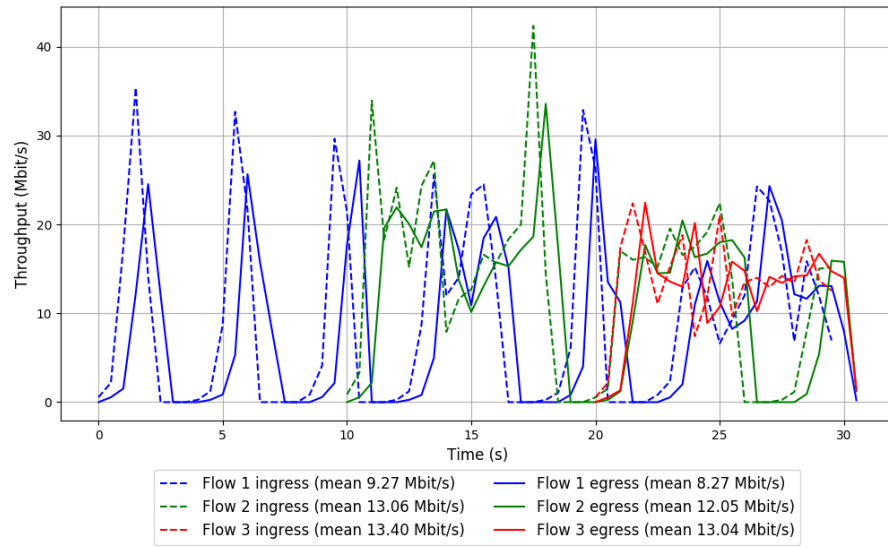
-- Flow 3:

Average throughput: 13.04 Mbit/s

95th percentile per-packet one-way delay: 136.263 ms

Loss rate: 2.74%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-07-17 19:31:19

End at: 2018-07-17 19:31:49

Local clock offset: 5.803 ms

Remote clock offset: 1.088 ms

Below is generated by plot.py at 2018-07-17 22:01:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.72 Mbit/s

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

Loss rate: 6.72%

-- Flow 1:

Average throughput: 8.02 Mbit/s

95th percentile per-packet one-way delay: 109.052 ms

Loss rate: 5.85%

-- Flow 2:

Average throughput: 8.71 Mbit/s

95th percentile per-packet one-way delay: 106.911 ms

Loss rate: 8.00%

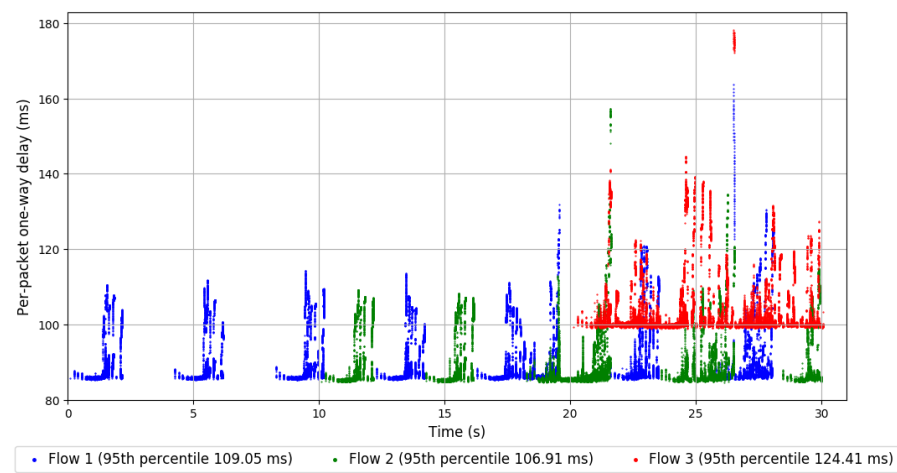
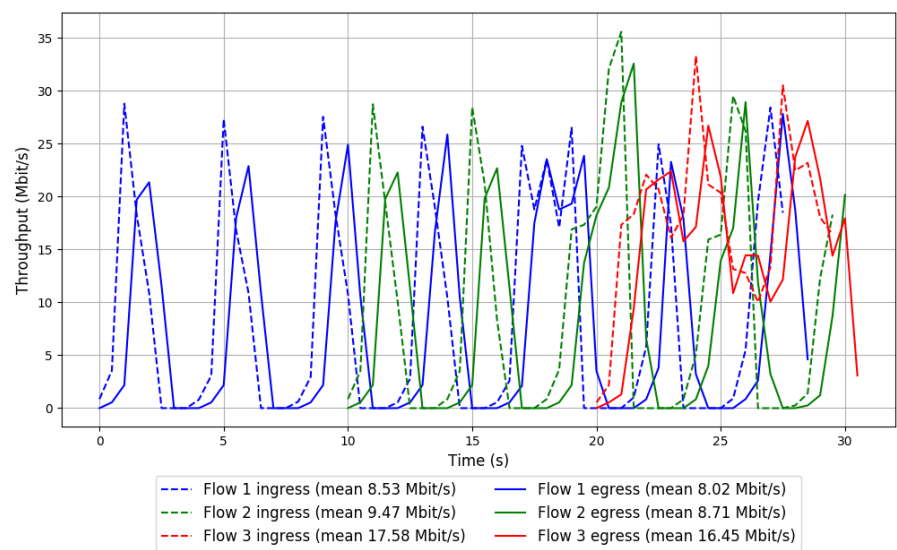
-- Flow 3:

Average throughput: 16.45 Mbit/s

95th percentile per-packet one-way delay: 124.413 ms

Loss rate: 6.52%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-07-17 20:05:03

End at: 2018-07-17 20:05:33

Local clock offset: 4.212 ms

Remote clock offset: 1.066 ms

Below is generated by plot.py at 2018-07-17 22:01:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.74 Mbit/s

95th percentile per-packet one-way delay: 122.372 ms

Loss rate: 9.48%

-- Flow 1:

Average throughput: 9.46 Mbit/s

95th percentile per-packet one-way delay: 130.667 ms

Loss rate: 11.73%

-- Flow 2:

Average throughput: 8.32 Mbit/s

95th percentile per-packet one-way delay: 116.814 ms

Loss rate: 7.34%

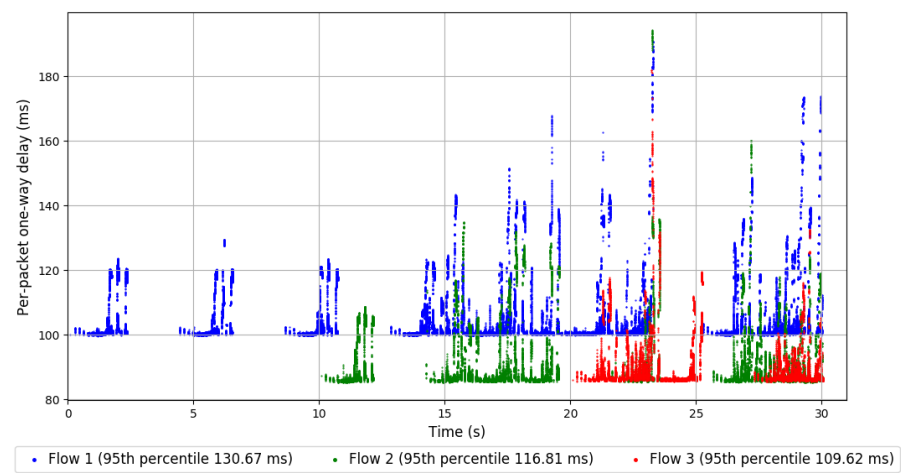
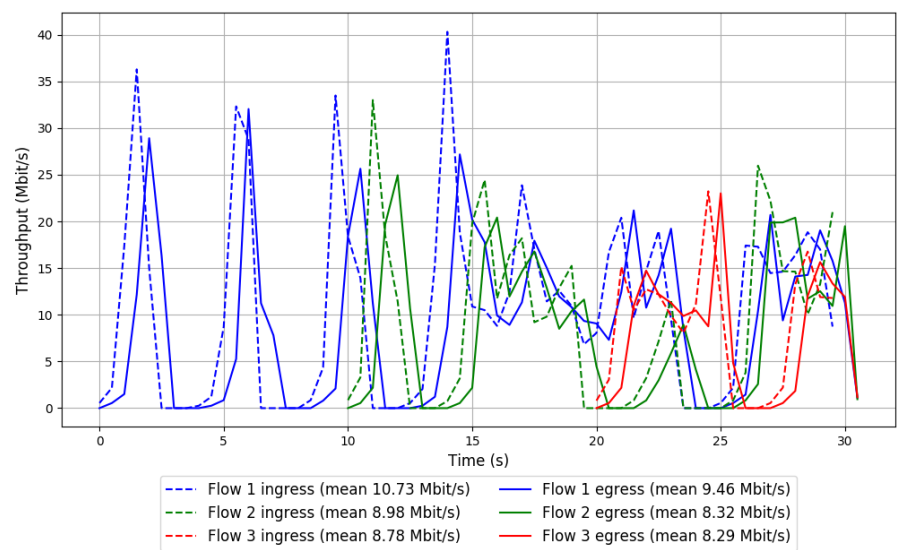
-- Flow 3:

Average throughput: 8.29 Mbit/s

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

Loss rate: 5.58%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-07-17 20:40:31

End at: 2018-07-17 20:41:01

Local clock offset: 6.266 ms

Remote clock offset: 0.875 ms

Below is generated by plot.py at 2018-07-17 22:01:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.79 Mbit/s

95th percentile per-packet one-way delay: 118.386 ms

Loss rate: 12.53%

-- Flow 1:

Average throughput: 8.53 Mbit/s

95th percentile per-packet one-way delay: 108.127 ms

Loss rate: 13.26%

-- Flow 2:

Average throughput: 6.71 Mbit/s

95th percentile per-packet one-way delay: 121.736 ms

Loss rate: 18.28%

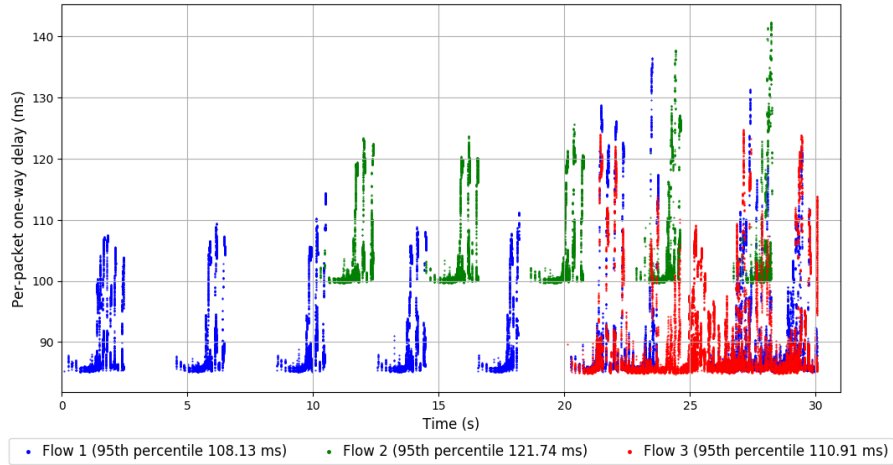
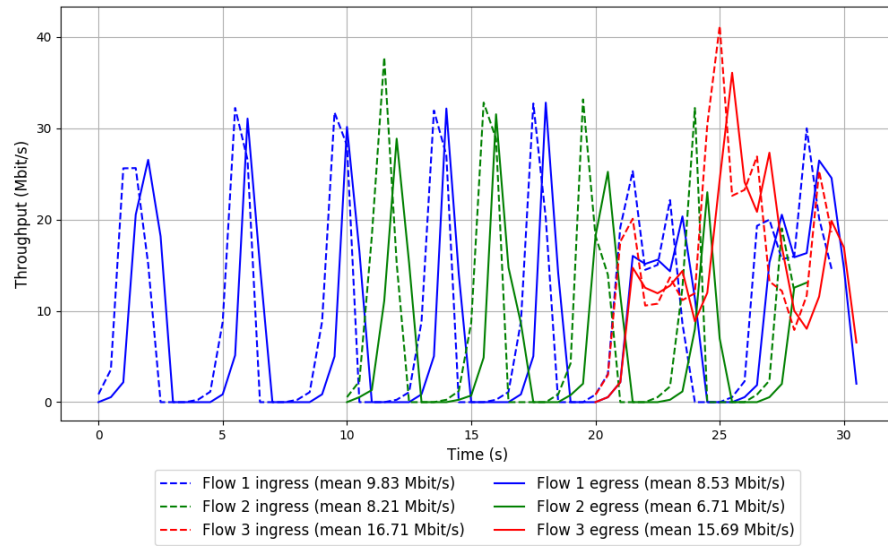
-- Flow 3:

Average throughput: 15.69 Mbit/s

95th percentile per-packet one-way delay: 110.913 ms

Loss rate: 6.09%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-07-17 21:13:09

End at: 2018-07-17 21:13:39

Local clock offset: 6.574 ms

Remote clock offset: 0.963 ms

Below is generated by plot.py at 2018-07-17 22:01:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 21.65 Mbit/s

95th percentile per-packet one-way delay: 121.364 ms

Loss rate: 8.52%

-- Flow 1:

Average throughput: 12.02 Mbit/s

95th percentile per-packet one-way delay: 123.251 ms

Loss rate: 9.00%

-- Flow 2:

Average throughput: 8.82 Mbit/s

95th percentile per-packet one-way delay: 110.389 ms

Loss rate: 7.62%

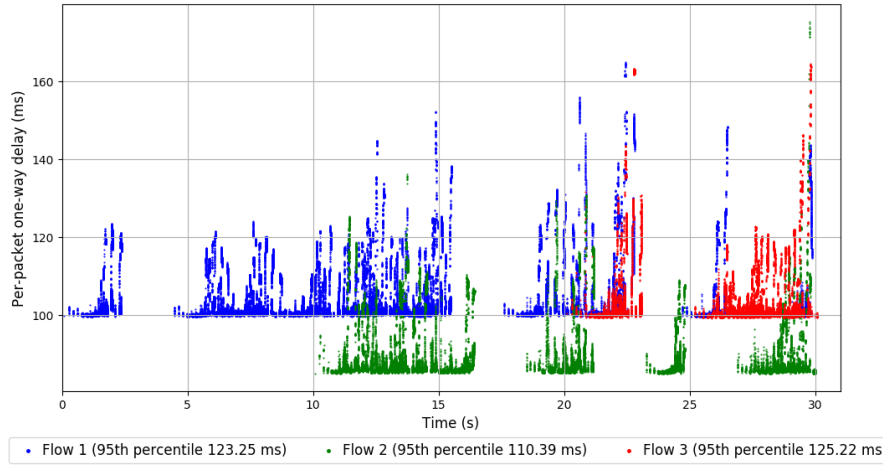
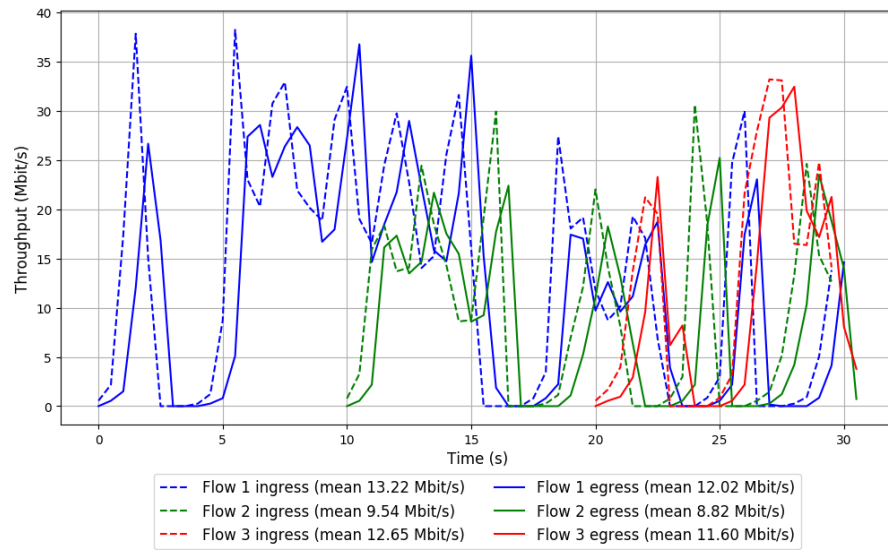
-- Flow 3:

Average throughput: 11.60 Mbit/s

95th percentile per-packet one-way delay: 125.224 ms

Loss rate: 8.40%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-07-17 21:42:52

End at: 2018-07-17 21:43:22

Local clock offset: 4.634 ms

Remote clock offset: 1.006 ms

Below is generated by plot.py at 2018-07-17 22:01:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.59 Mbit/s

95th percentile per-packet one-way delay: 118.880 ms

Loss rate: 9.41%

-- Flow 1:

Average throughput: 8.51 Mbit/s

95th percentile per-packet one-way delay: 105.582 ms

Loss rate: 8.80%

-- Flow 2:

Average throughput: 9.29 Mbit/s

95th percentile per-packet one-way delay: 125.746 ms

Loss rate: 12.26%

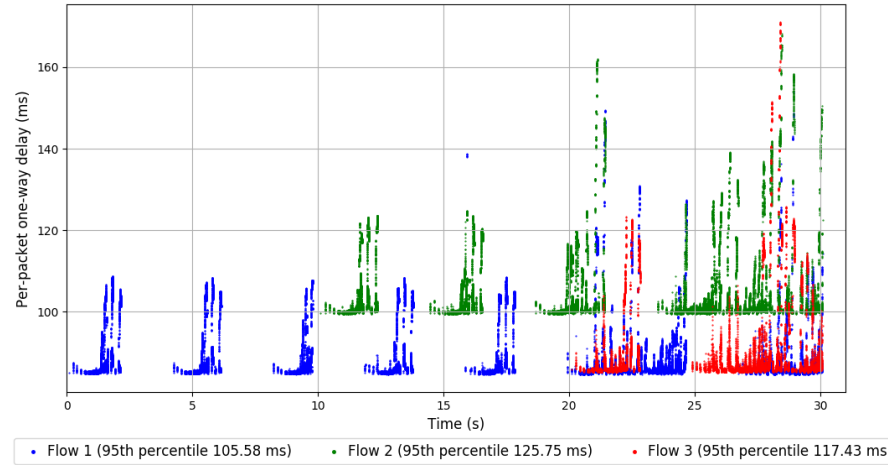
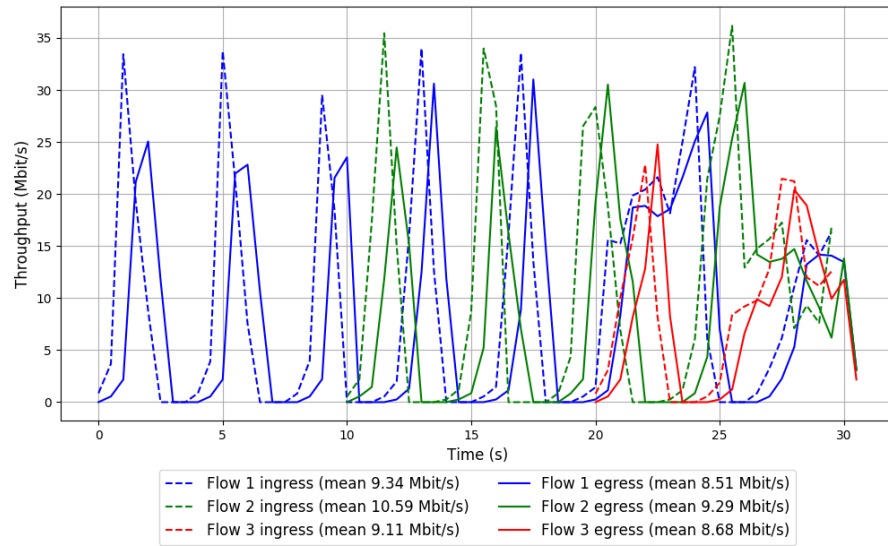
-- Flow 3:

Average throughput: 8.68 Mbit/s

95th percentile per-packet one-way delay: 117.428 ms

Loss rate: 4.61%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-07-17 17:02:20

End at: 2018-07-17 17:02:50

Local clock offset: 6.688 ms

Remote clock offset: 0.988 ms

Below is generated by plot.py at 2018-07-17 22:01:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 30.53 Mbit/s

95th percentile per-packet one-way delay: 96.187 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 12.69 Mbit/s

95th percentile per-packet one-way delay: 91.501 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 19.79 Mbit/s

95th percentile per-packet one-way delay: 100.373 ms

Loss rate: 0.52%

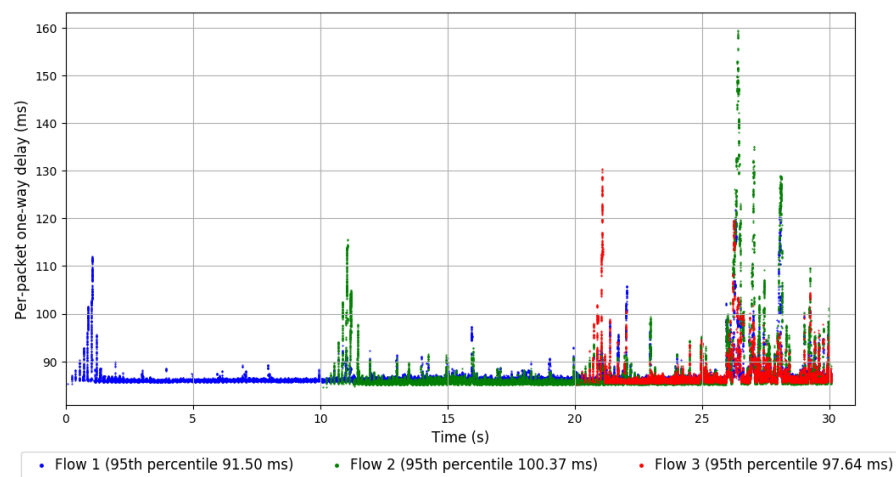
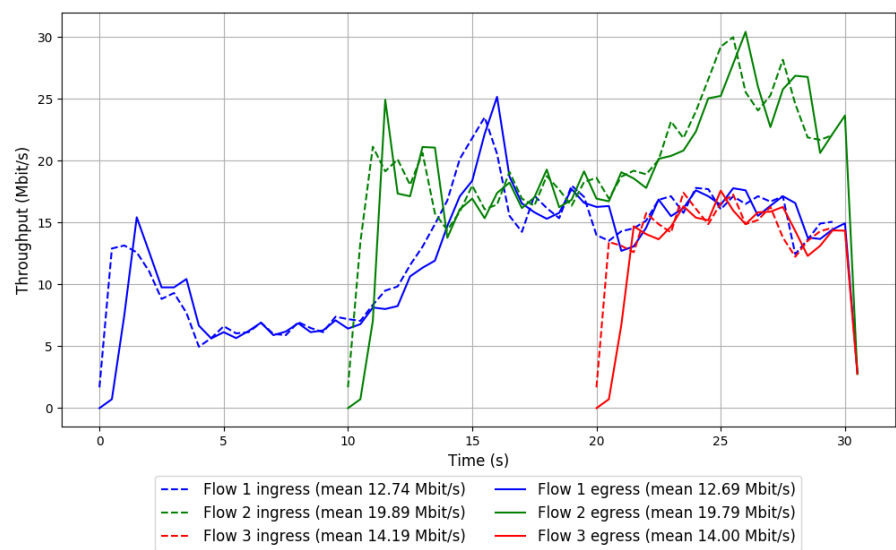
-- Flow 3:

Average throughput: 14.00 Mbit/s

95th percentile per-packet one-way delay: 97.636 ms

Loss rate: 1.28%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-07-17 17:39:19

End at: 2018-07-17 17:39:49

Local clock offset: 7.431 ms

Remote clock offset: 1.239 ms

Below is generated by plot.py at 2018-07-17 22:01:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.03 Mbit/s

95th percentile per-packet one-way delay: 103.134 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 9.55 Mbit/s

95th percentile per-packet one-way delay: 103.996 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 9.38 Mbit/s

95th percentile per-packet one-way delay: 104.100 ms

Loss rate: 0.91%

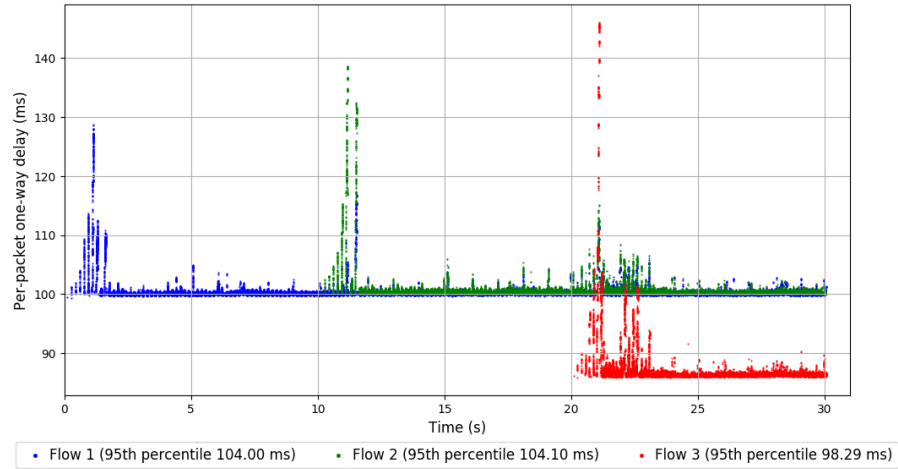
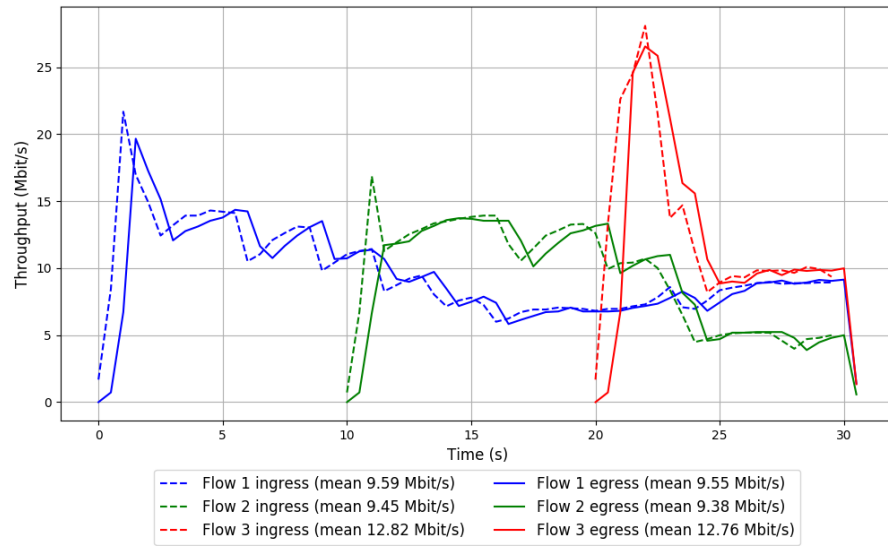
-- Flow 3:

Average throughput: 12.76 Mbit/s

95th percentile per-packet one-way delay: 98.287 ms

Loss rate: 0.47%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-07-17 18:09:28

End at: 2018-07-17 18:09:58

Local clock offset: -3.706 ms

Remote clock offset: 1.273 ms

Below is generated by plot.py at 2018-07-17 22:01:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 29.05 Mbit/s

95th percentile per-packet one-way delay: 100.959 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 17.48 Mbit/s

95th percentile per-packet one-way delay: 87.940 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 10.87 Mbit/s

95th percentile per-packet one-way delay: 102.744 ms

Loss rate: 0.15%

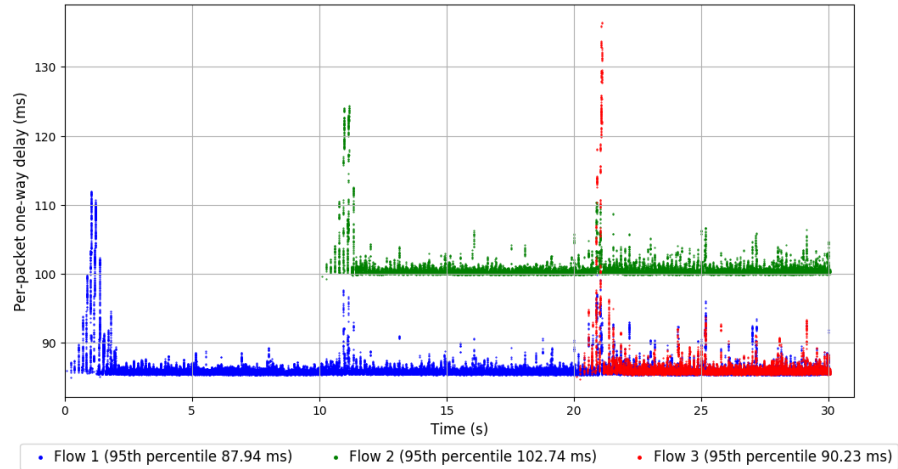
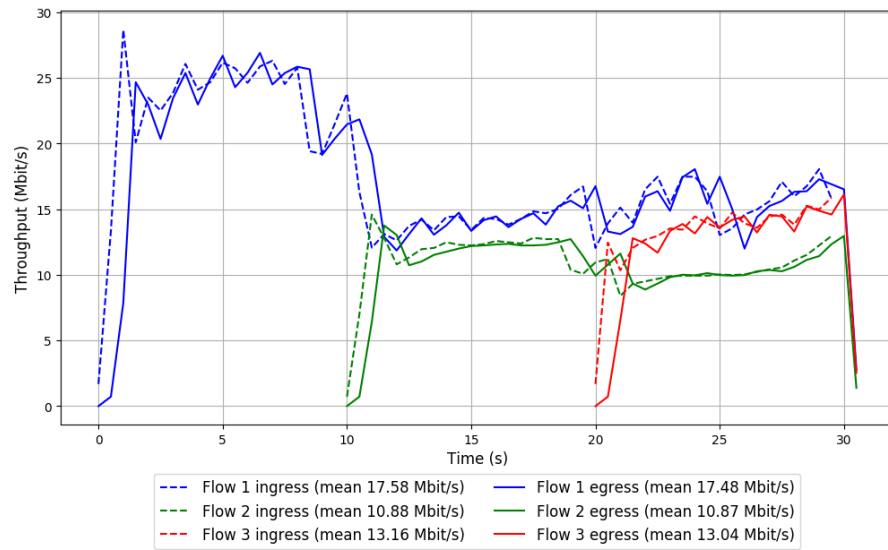
-- Flow 3:

Average throughput: 13.04 Mbit/s

95th percentile per-packet one-way delay: 90.234 ms

Loss rate: 0.86%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-07-17 18:39:39

End at: 2018-07-17 18:40:09

Local clock offset: -7.015 ms

Remote clock offset: 1.309 ms

Below is generated by plot.py at 2018-07-17 22:01:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 28.90 Mbit/s

95th percentile per-packet one-way delay: 103.401 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 15.97 Mbit/s

95th percentile per-packet one-way delay: 102.672 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 14.68 Mbit/s

95th percentile per-packet one-way delay: 104.986 ms

Loss rate: 0.43%

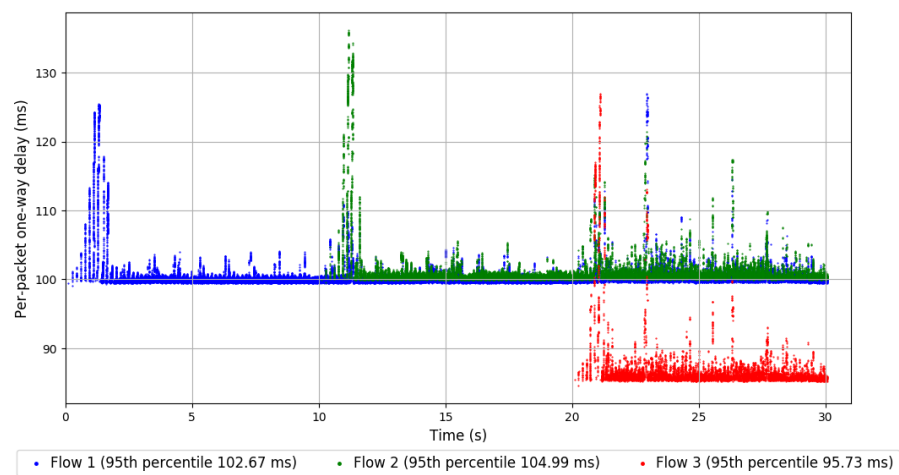
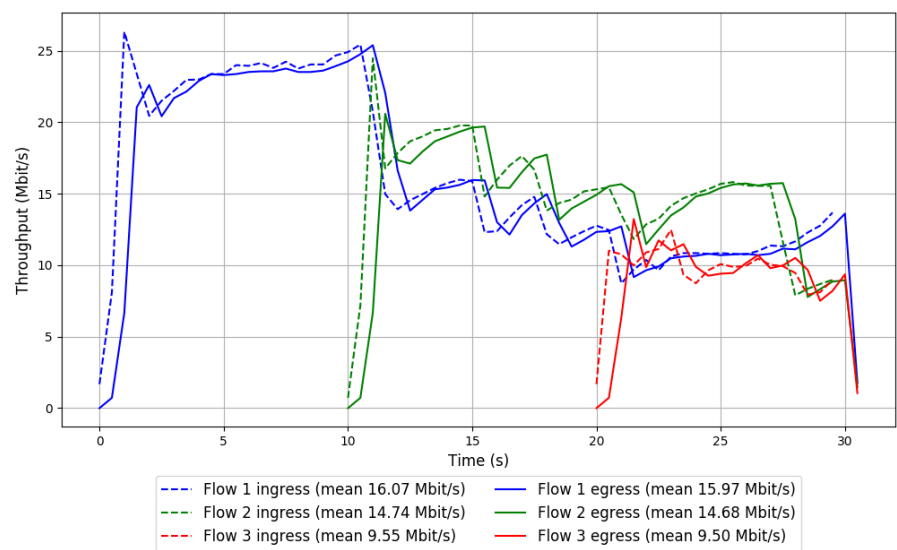
-- Flow 3:

Average throughput: 9.50 Mbit/s

95th percentile per-packet one-way delay: 95.726 ms

Loss rate: 0.60%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-07-17 19:10:13

End at: 2018-07-17 19:10:43

Local clock offset: 7.666 ms

Remote clock offset: 1.377 ms

Below is generated by plot.py at 2018-07-17 22:01:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 30.90 Mbit/s

95th percentile per-packet one-way delay: 102.919 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 14.18 Mbit/s

95th percentile per-packet one-way delay: 89.145 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 15.76 Mbit/s

95th percentile per-packet one-way delay: 104.760 ms

Loss rate: 1.14%

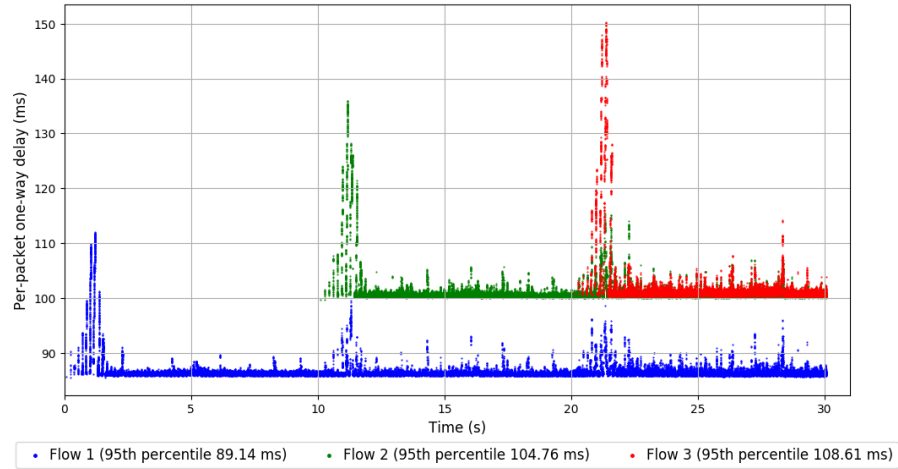
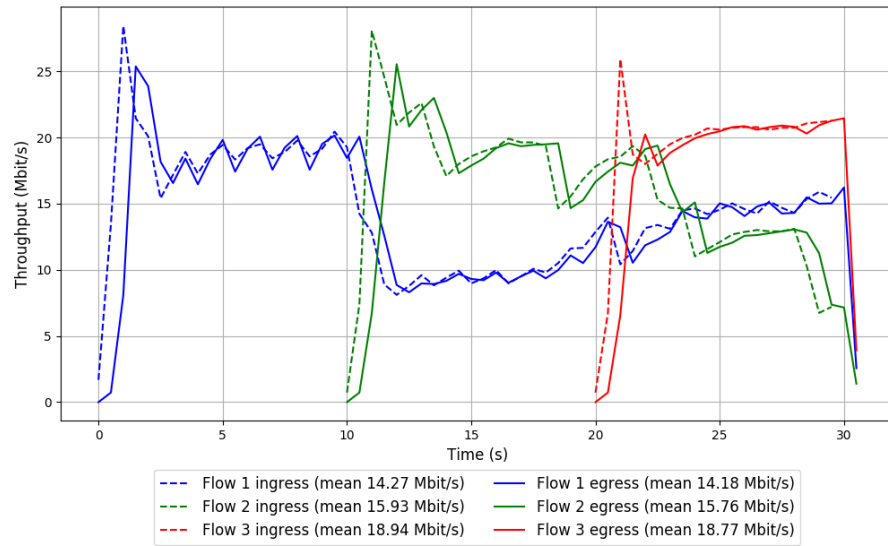
-- Flow 3:

Average throughput: 18.77 Mbit/s

95th percentile per-packet one-way delay: 108.613 ms

Loss rate: 1.01%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-07-17 19:42:33

End at: 2018-07-17 19:43:03

Local clock offset: 6.003 ms

Remote clock offset: 1.211 ms

Below is generated by plot.py at 2018-07-17 22:01:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.43 Mbit/s

95th percentile per-packet one-way delay: 101.040 ms

Loss rate: 1.02%

-- Flow 1:

Average throughput: 7.59 Mbit/s

95th percentile per-packet one-way delay: 88.750 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 11.70 Mbit/s

95th percentile per-packet one-way delay: 92.580 ms

Loss rate: 1.46%

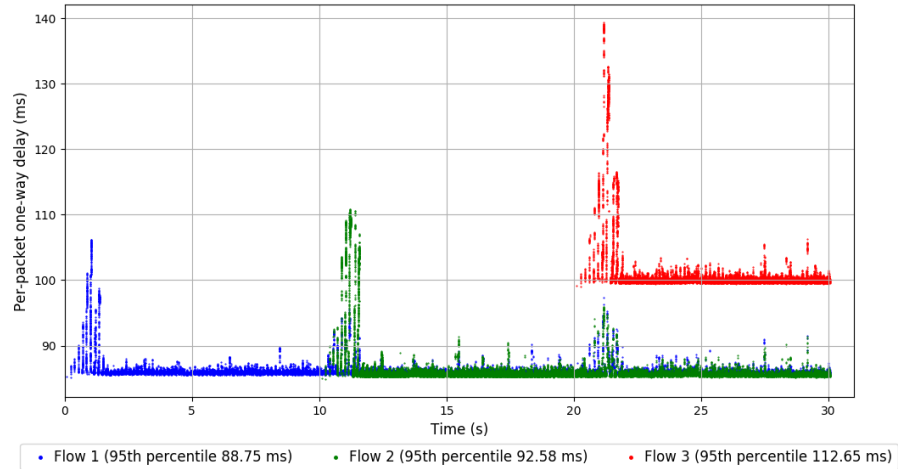
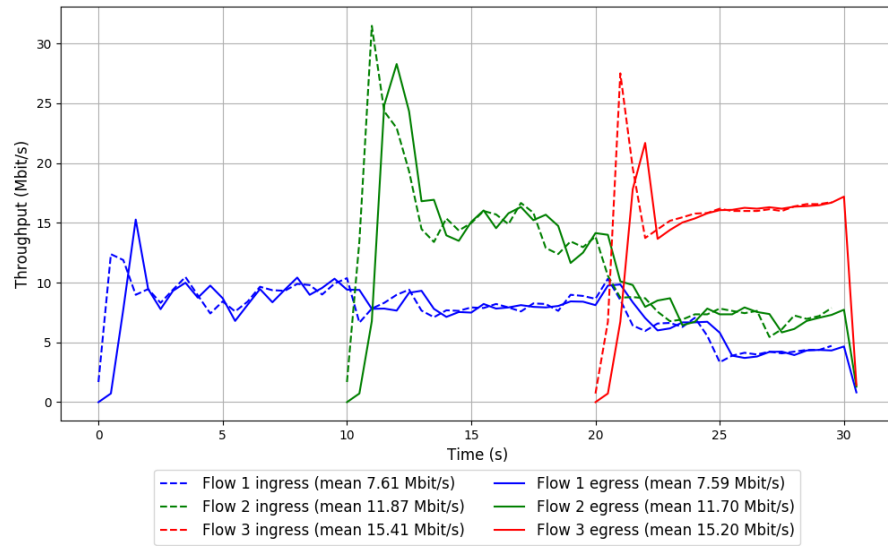
-- Flow 3:

Average throughput: 15.20 Mbit/s

95th percentile per-packet one-way delay: 112.649 ms

Loss rate: 1.51%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-07-17 20:16:33

End at: 2018-07-17 20:17:03

Local clock offset: 4.949 ms

Remote clock offset: 1.156 ms

Below is generated by plot.py at 2018-07-17 22:01:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.23 Mbit/s

95th percentile per-packet one-way delay: 102.224 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 8.87 Mbit/s

95th percentile per-packet one-way delay: 88.295 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 12.57 Mbit/s

95th percentile per-packet one-way delay: 103.610 ms

Loss rate: 0.48%

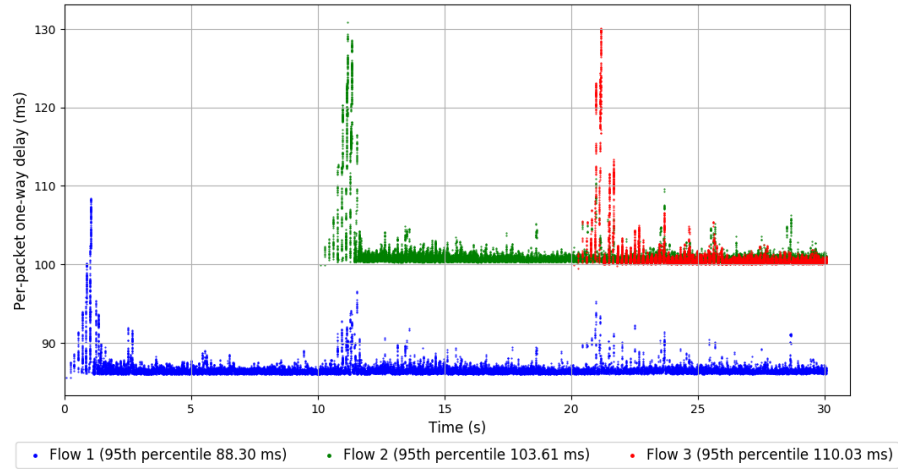
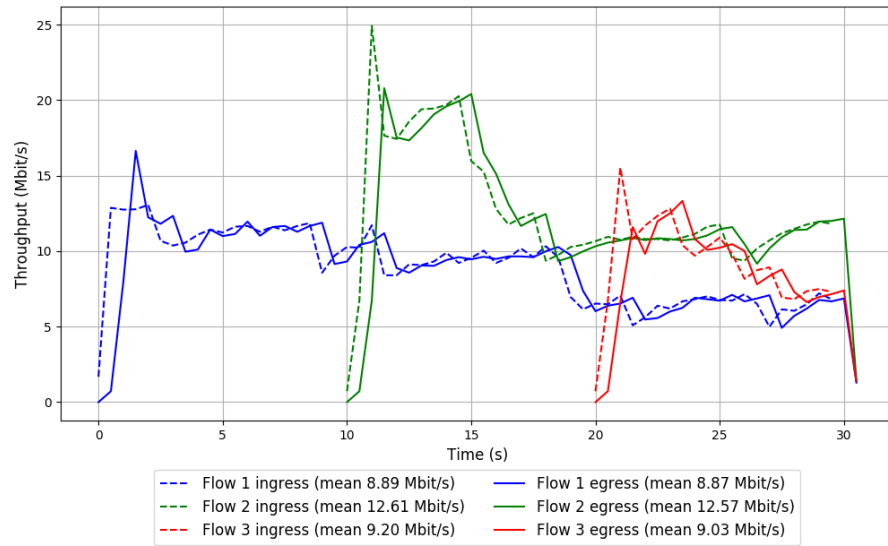
-- Flow 3:

Average throughput: 9.03 Mbit/s

95th percentile per-packet one-way delay: 110.030 ms

Loss rate: 1.92%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-07-17 20:52:17

End at: 2018-07-17 20:52:47

Local clock offset: 6.314 ms

Remote clock offset: 0.953 ms

Below is generated by plot.py at 2018-07-17 22:01:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 36.23 Mbit/s

95th percentile per-packet one-way delay: 109.743 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 18.86 Mbit/s

95th percentile per-packet one-way delay: 116.164 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 18.55 Mbit/s

95th percentile per-packet one-way delay: 106.088 ms

Loss rate: 0.36%

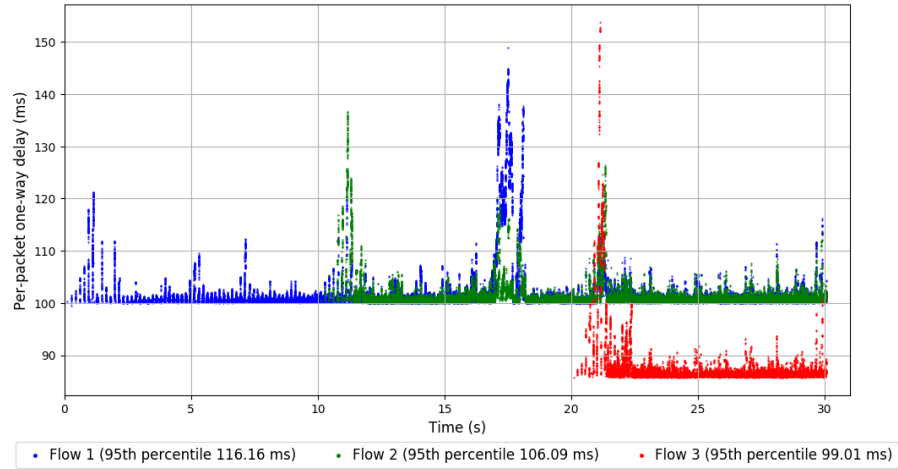
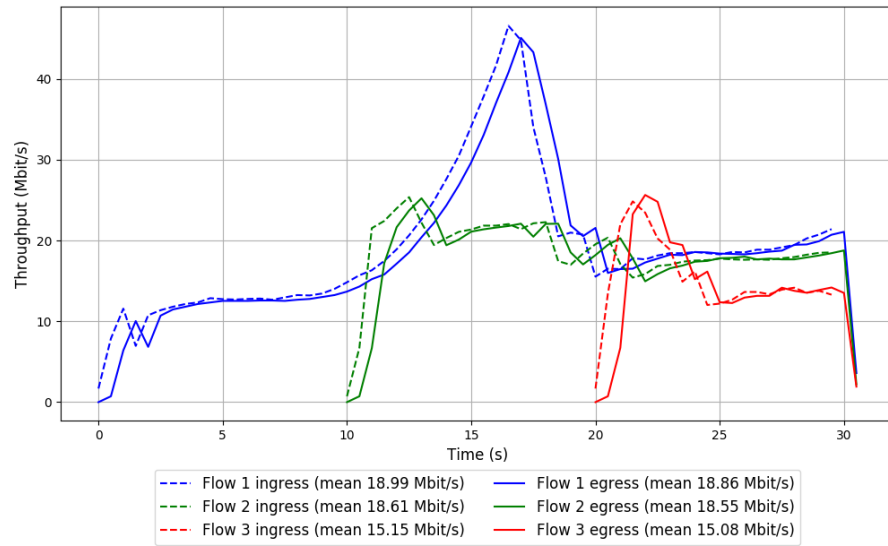
-- Flow 3:

Average throughput: 15.08 Mbit/s

95th percentile per-packet one-way delay: 99.006 ms

Loss rate: 0.42%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-07-17 21:22:06

End at: 2018-07-17 21:22:36

Local clock offset: 5.747 ms

Remote clock offset: 1.142 ms

Below is generated by plot.py at 2018-07-17 22:01:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 33.31 Mbit/s

95th percentile per-packet one-way delay: 100.933 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 14.19 Mbit/s

95th percentile per-packet one-way delay: 90.747 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 15.99 Mbit/s

95th percentile per-packet one-way delay: 95.902 ms

Loss rate: 0.40%

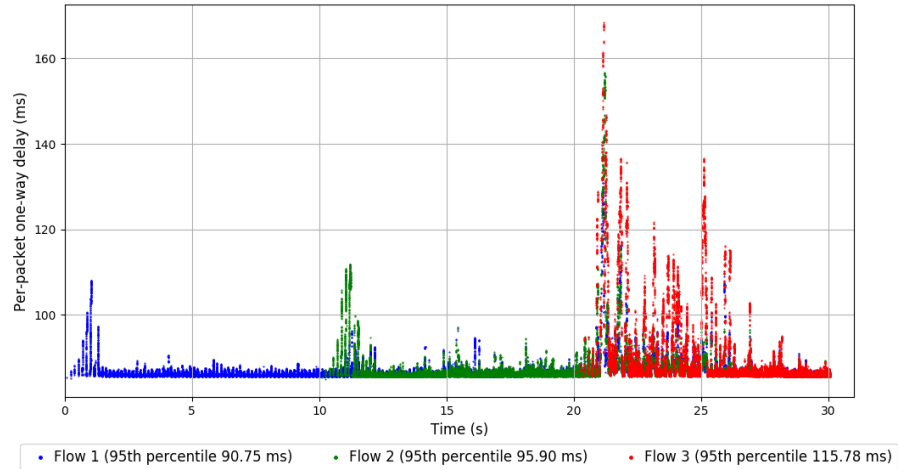
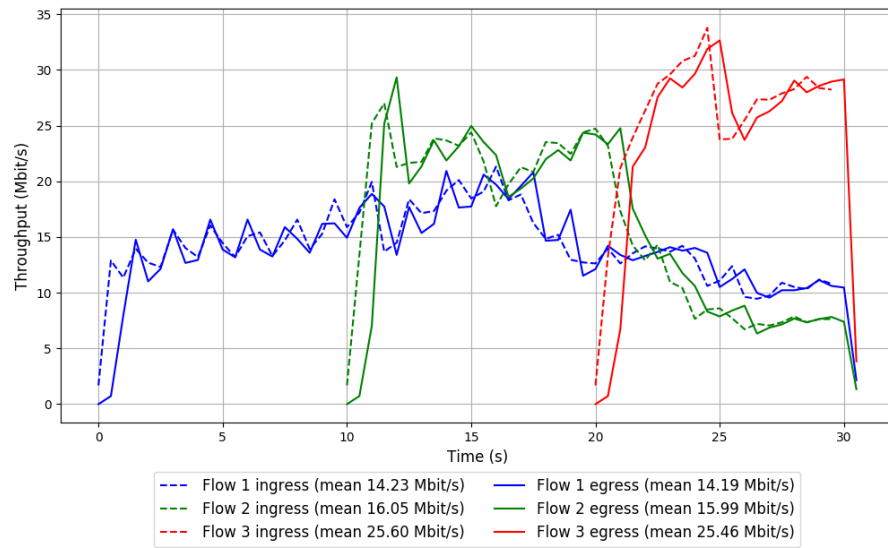
-- Flow 3:

Average throughput: 25.46 Mbit/s

95th percentile per-packet one-way delay: 115.777 ms

Loss rate: 0.53%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-07-17 21:52:35

End at: 2018-07-17 21:53:05

Local clock offset: 2.946 ms

Remote clock offset: 0.965 ms

Below is generated by plot.py at 2018-07-17 22:01:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 31.10 Mbit/s

95th percentile per-packet one-way delay: 102.676 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 14.07 Mbit/s

95th percentile per-packet one-way delay: 103.171 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 19.23 Mbit/s

95th percentile per-packet one-way delay: 90.603 ms

Loss rate: 0.42%

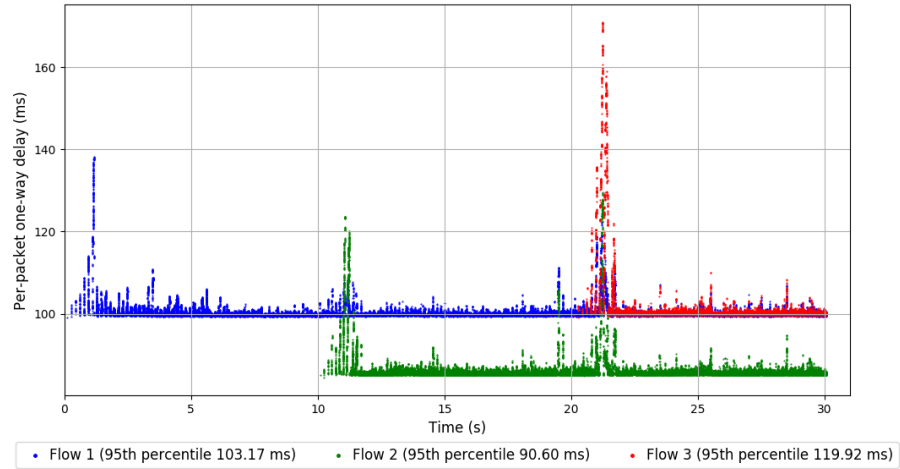
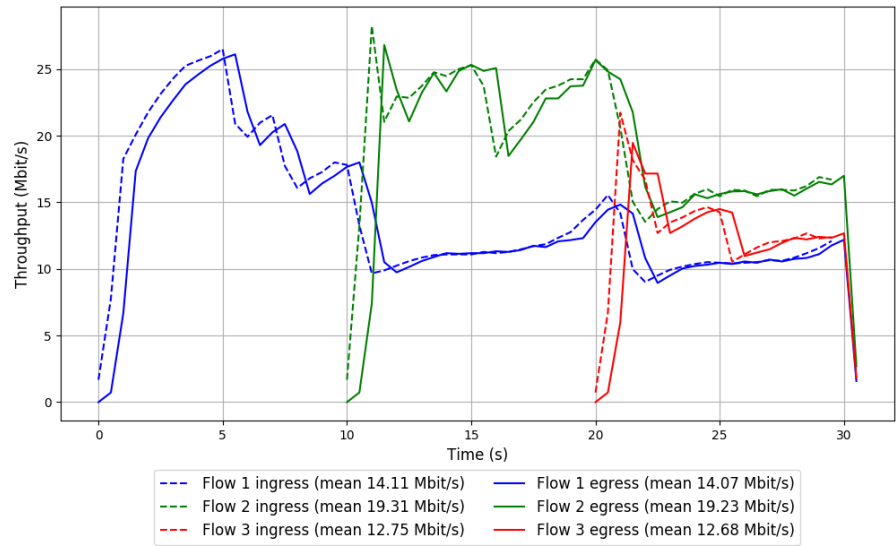
-- Flow 3:

Average throughput: 12.68 Mbit/s

95th percentile per-packet one-way delay: 119.919 ms

Loss rate: 0.68%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-07-17 16:42:03

End at: 2018-07-17 16:42:33

Local clock offset: 3.889 ms

Remote clock offset: 0.711 ms

Below is generated by plot.py at 2018-07-17 22:02:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.45 Mbit/s

95th percentile per-packet one-way delay: 141.608 ms

Loss rate: 33.36%

-- Flow 1:

Average throughput: 32.01 Mbit/s

95th percentile per-packet one-way delay: 139.535 ms

Loss rate: 37.39%

-- Flow 2:

Average throughput: 22.30 Mbit/s

95th percentile per-packet one-way delay: 146.759 ms

Loss rate: 27.74%

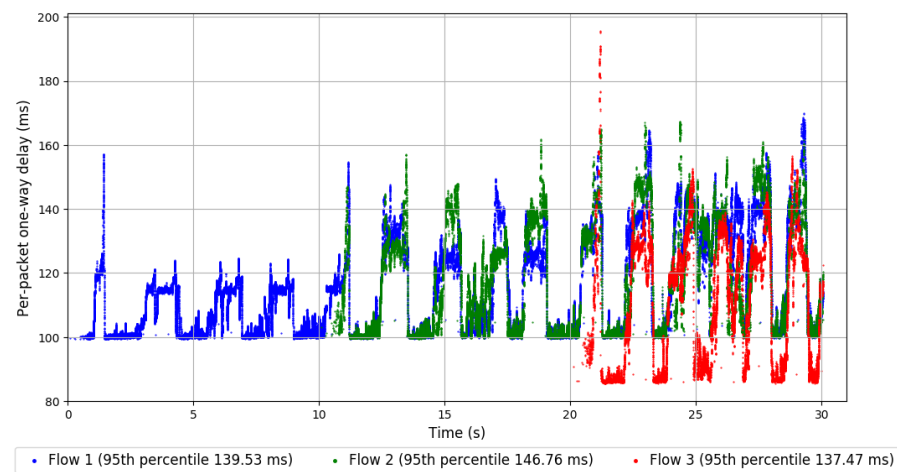
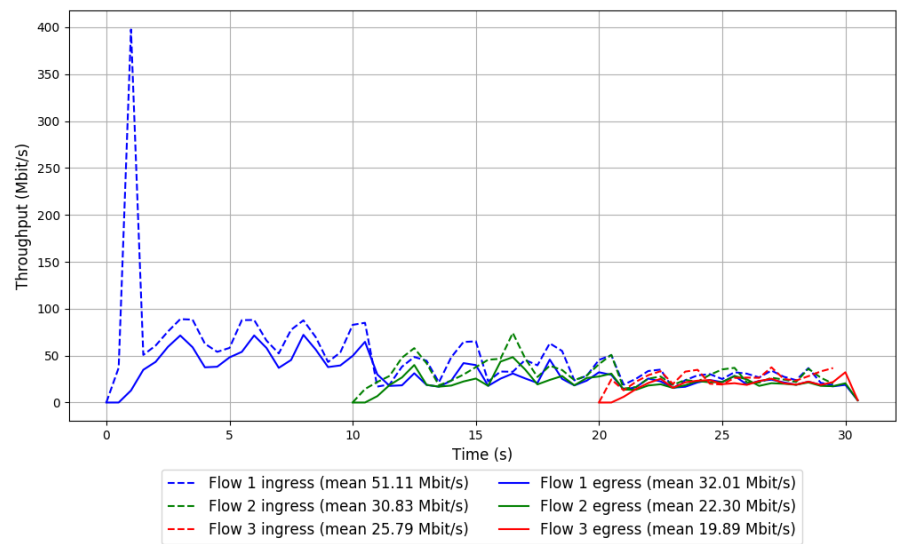
-- Flow 3:

Average throughput: 19.89 Mbit/s

95th percentile per-packet one-way delay: 137.468 ms

Loss rate: 22.83%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-07-17 17:13:53

End at: 2018-07-17 17:14:23

Local clock offset: 6.885 ms

Remote clock offset: 1.15 ms

Below is generated by plot.py at 2018-07-17 22:02:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 50.27 Mbit/s

95th percentile per-packet one-way delay: 131.192 ms

Loss rate: 36.06%

-- Flow 1:

Average throughput: 29.46 Mbit/s

95th percentile per-packet one-way delay: 126.005 ms

Loss rate: 35.22%

-- Flow 2:

Average throughput: 21.91 Mbit/s

95th percentile per-packet one-way delay: 134.822 ms

Loss rate: 35.12%

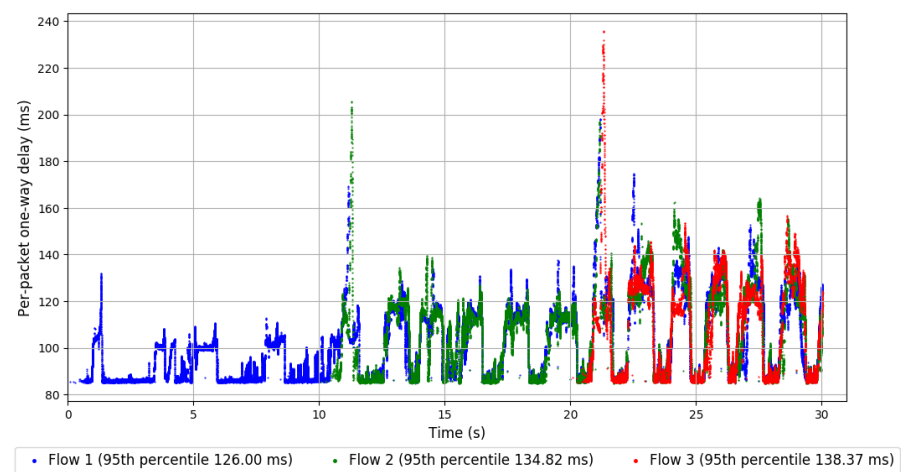
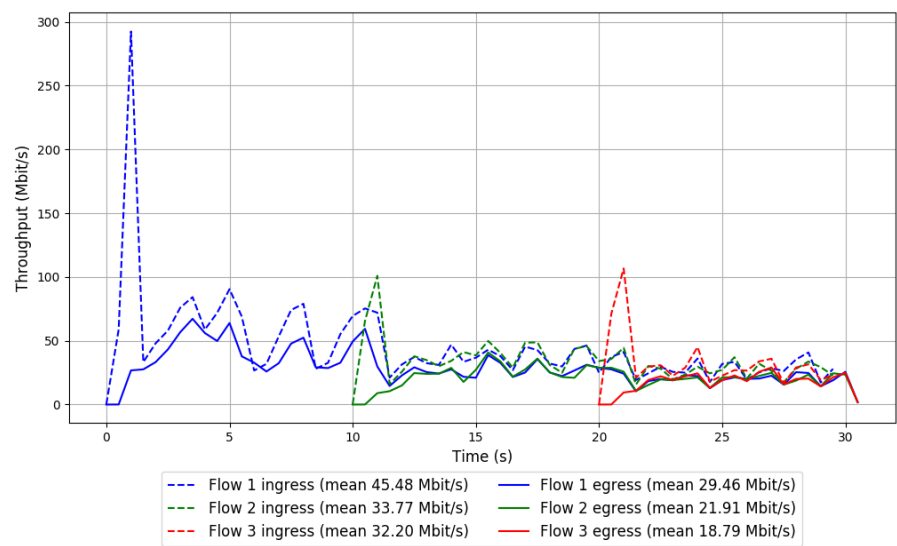
-- Flow 3:

Average throughput: 18.79 Mbit/s

95th percentile per-packet one-way delay: 138.369 ms

Loss rate: 41.61%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-07-17 17:49:51

End at: 2018-07-17 17:50:21

Local clock offset: 1.092 ms

Remote clock offset: 1.286 ms

Below is generated by plot.py at 2018-07-17 22:02:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 51.60 Mbit/s

95th percentile per-packet one-way delay: 124.365 ms

Loss rate: 33.38%

-- Flow 1:

Average throughput: 31.41 Mbit/s

95th percentile per-packet one-way delay: 115.493 ms

Loss rate: 32.47%

-- Flow 2:

Average throughput: 24.58 Mbit/s

95th percentile per-packet one-way delay: 125.696 ms

Loss rate: 31.05%

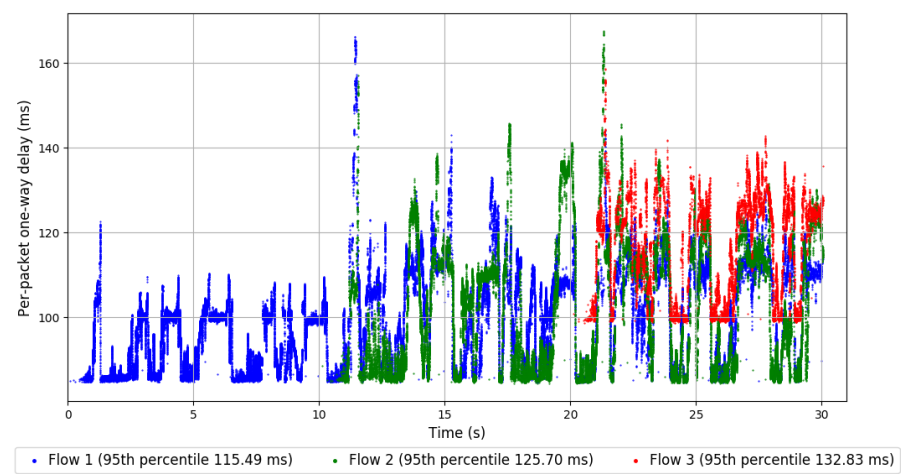
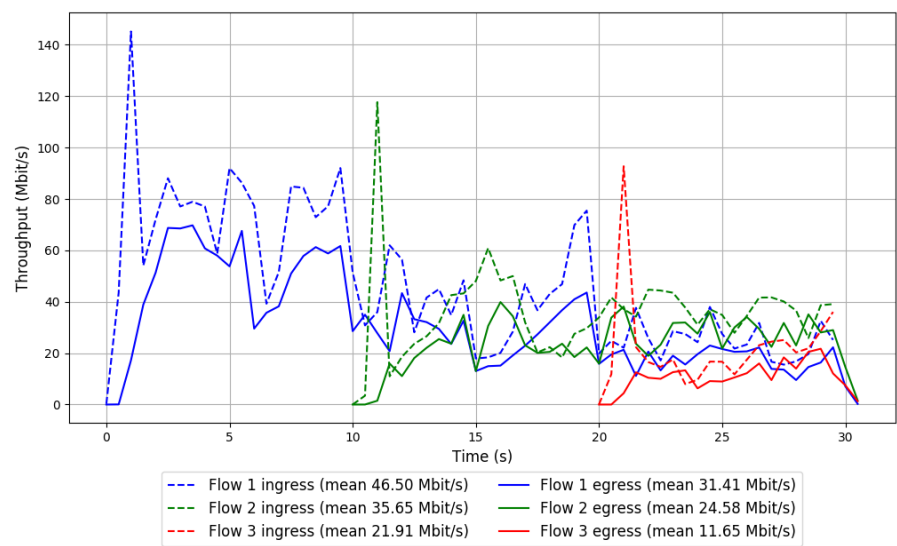
-- Flow 3:

Average throughput: 11.65 Mbit/s

95th percentile per-packet one-way delay: 132.827 ms

Loss rate: 46.85%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-07-17 18:19:52

End at: 2018-07-17 18:20:22

Local clock offset: -4.996 ms

Remote clock offset: 1.294 ms

Below is generated by plot.py at 2018-07-17 22:02:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 51.41 Mbit/s

95th percentile per-packet one-way delay: 141.352 ms

Loss rate: 34.89%

-- Flow 1:

Average throughput: 30.71 Mbit/s

95th percentile per-packet one-way delay: 143.764 ms

Loss rate: 33.91%

-- Flow 2:

Average throughput: 22.04 Mbit/s

95th percentile per-packet one-way delay: 133.919 ms

Loss rate: 37.79%

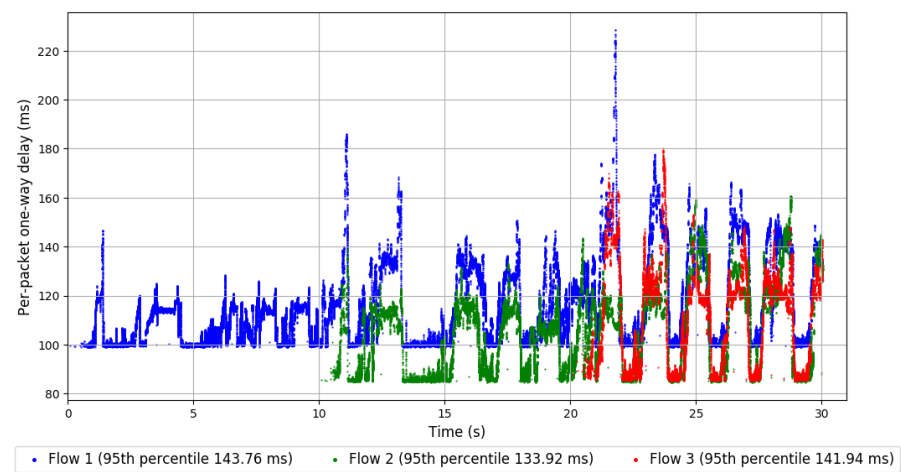
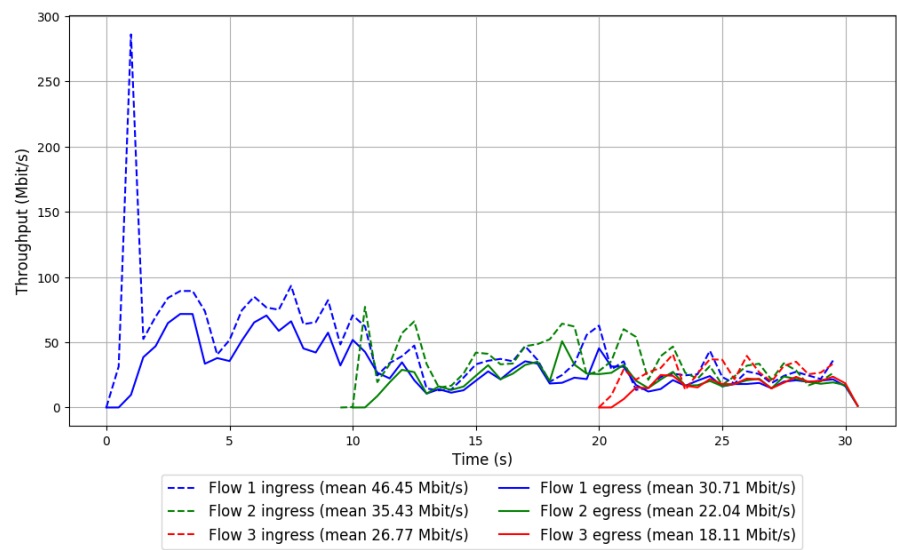
-- Flow 3:

Average throughput: 18.11 Mbit/s

95th percentile per-packet one-way delay: 141.944 ms

Loss rate: 32.31%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-07-17 18:50:01

End at: 2018-07-17 18:50:31

Local clock offset: 1.575 ms

Remote clock offset: 1.444 ms

Below is generated by plot.py at 2018-07-17 22:02:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 52.97 Mbit/s

95th percentile per-packet one-way delay: 144.499 ms

Loss rate: 34.15%

-- Flow 1:

Average throughput: 32.79 Mbit/s

95th percentile per-packet one-way delay: 141.715 ms

Loss rate: 34.97%

-- Flow 2:

Average throughput: 21.01 Mbit/s

95th percentile per-packet one-way delay: 136.741 ms

Loss rate: 29.45%

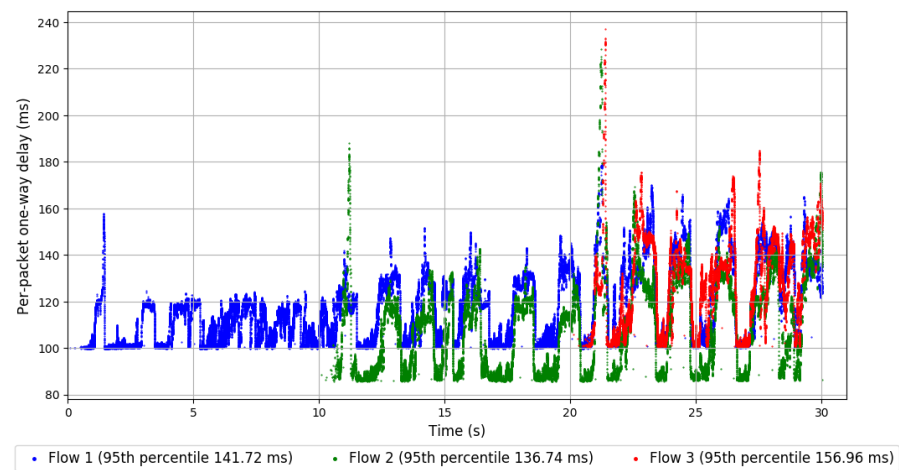
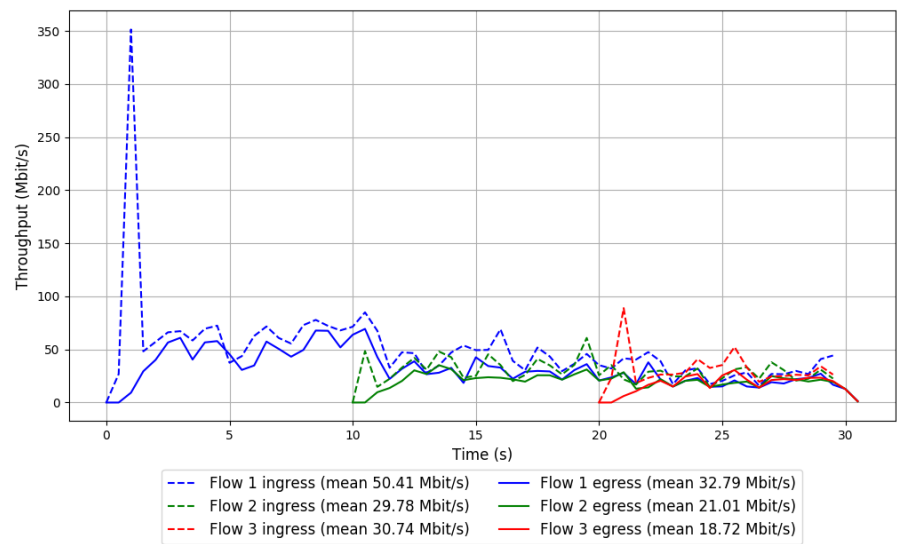
-- Flow 3:

Average throughput: 18.72 Mbit/s

95th percentile per-packet one-way delay: 156.958 ms

Loss rate: 39.24%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-07-17 19:21:08

End at: 2018-07-17 19:21:38

Local clock offset: 5.945 ms

Remote clock offset: 1.245 ms

Below is generated by plot.py at 2018-07-17 22:02:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 51.41 Mbit/s

95th percentile per-packet one-way delay: 143.370 ms

Loss rate: 35.10%

-- Flow 1:

Average throughput: 31.27 Mbit/s

95th percentile per-packet one-way delay: 136.863 ms

Loss rate: 36.68%

-- Flow 2:

Average throughput: 21.73 Mbit/s

95th percentile per-packet one-way delay: 150.241 ms

Loss rate: 29.61%

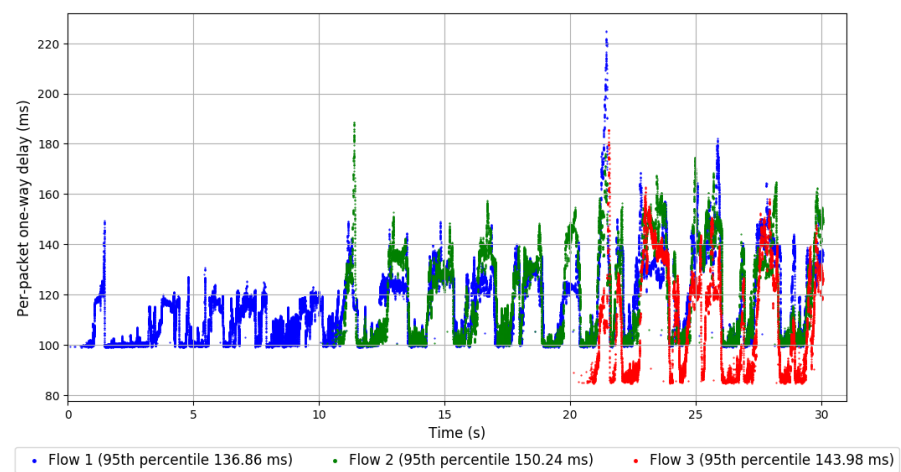
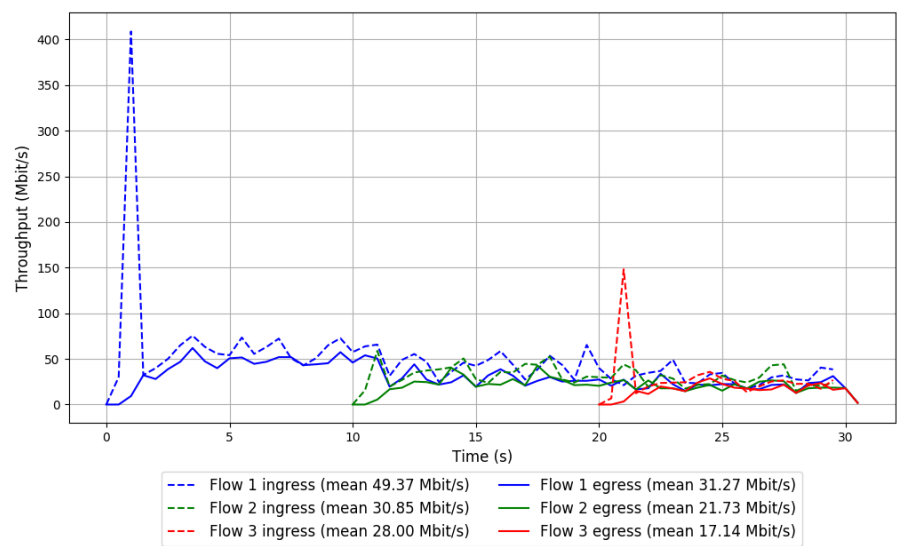
-- Flow 3:

Average throughput: 17.14 Mbit/s

95th percentile per-packet one-way delay: 143.984 ms

Loss rate: 38.80%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-07-17 19:55:01

End at: 2018-07-17 19:55:31

Local clock offset: 4.393 ms

Remote clock offset: 1.103 ms

Below is generated by plot.py at 2018-07-17 22:02:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 54.14 Mbit/s

95th percentile per-packet one-way delay: 146.079 ms

Loss rate: 32.95%

-- Flow 1:

Average throughput: 32.25 Mbit/s

95th percentile per-packet one-way delay: 143.173 ms

Loss rate: 33.58%

-- Flow 2:

Average throughput: 23.70 Mbit/s

95th percentile per-packet one-way delay: 148.157 ms

Loss rate: 33.85%

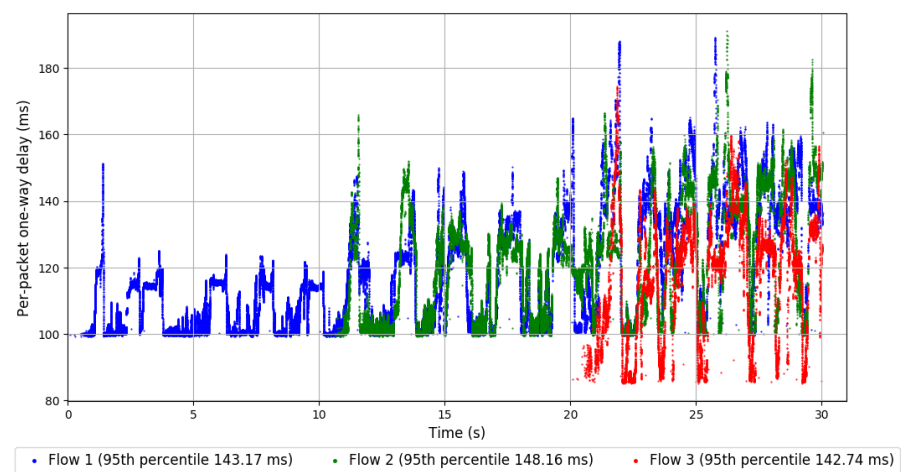
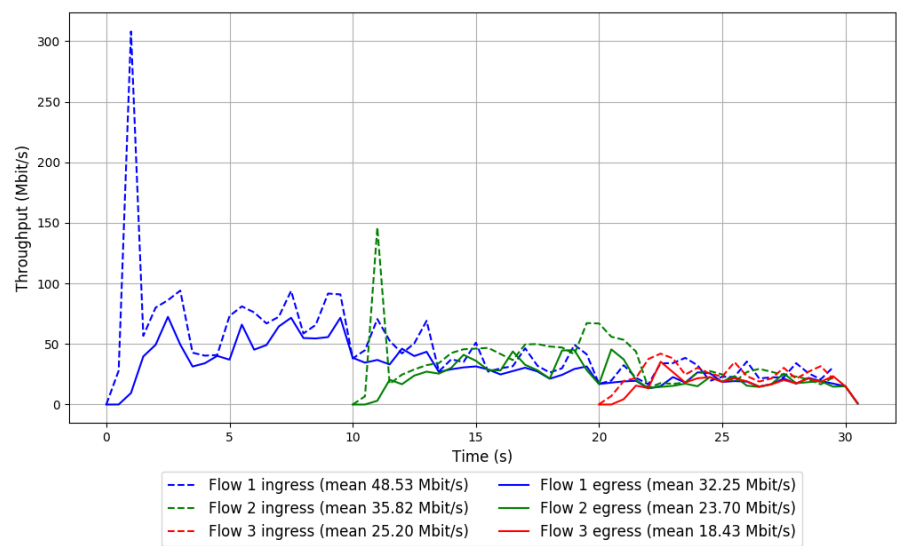
-- Flow 3:

Average throughput: 18.43 Mbit/s

95th percentile per-packet one-way delay: 142.740 ms

Loss rate: 26.74%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-07-17 20:29:44

End at: 2018-07-17 20:30:14

Local clock offset: 5.861 ms

Remote clock offset: 0.993 ms

Below is generated by plot.py at 2018-07-17 22:03:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 54.90 Mbit/s

95th percentile per-packet one-way delay: 137.850 ms

Loss rate: 30.94%

-- Flow 1:

Average throughput: 34.52 Mbit/s

95th percentile per-packet one-way delay: 138.923 ms

Loss rate: 34.57%

-- Flow 2:

Average throughput: 21.58 Mbit/s

95th percentile per-packet one-way delay: 131.464 ms

Loss rate: 21.00%

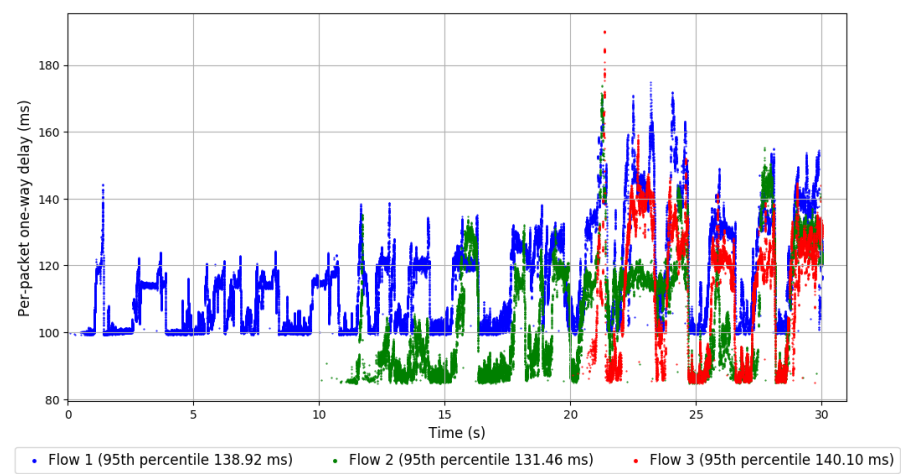
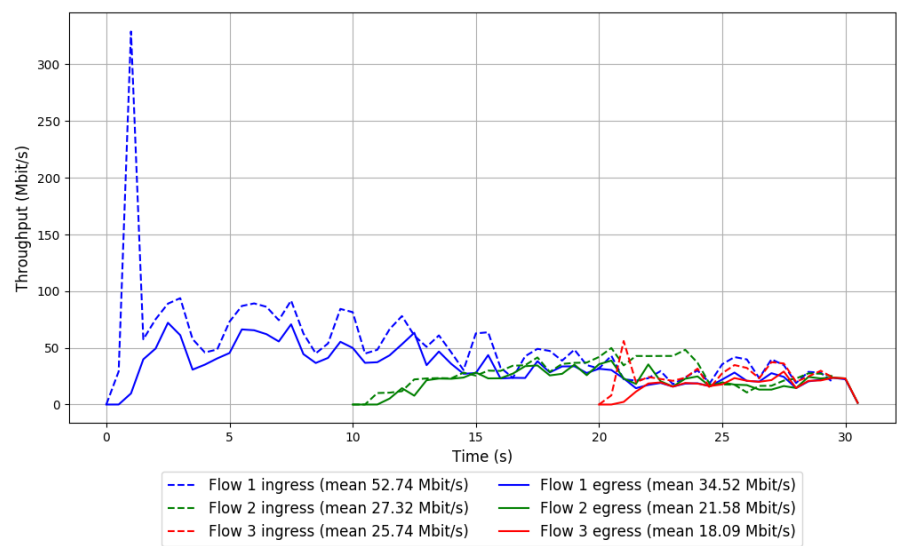
-- Flow 3:

Average throughput: 18.09 Mbit/s

95th percentile per-packet one-way delay: 140.098 ms

Loss rate: 29.73%

Run 8: Report of FillP — Data Link

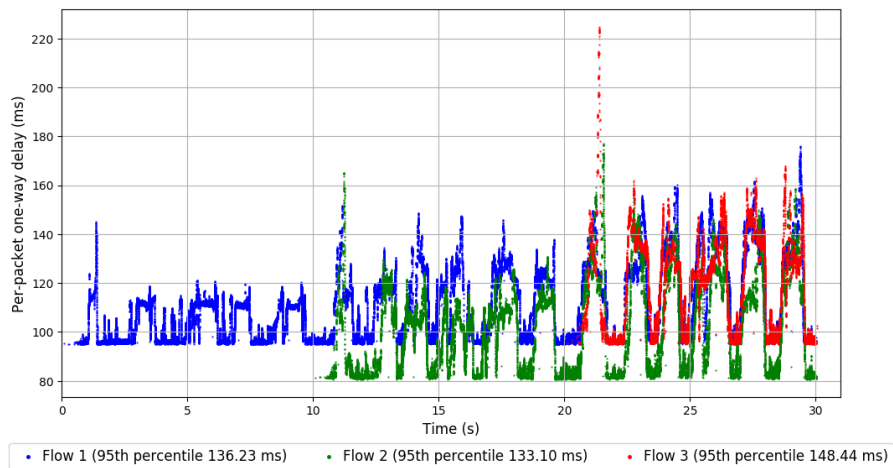
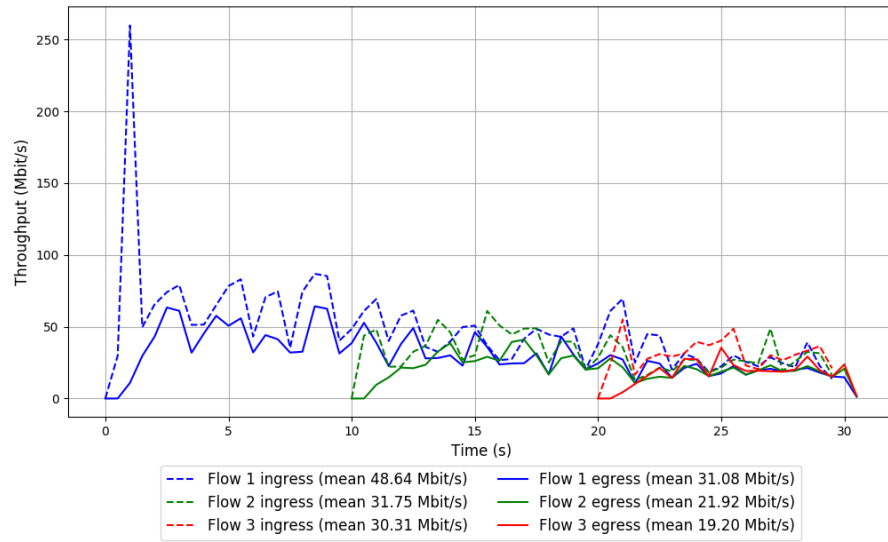


Run 9: Statistics of FillP

Start at: 2018-07-17 21:03:24
End at: 2018-07-17 21:03:54
Local clock offset: 6.752 ms
Remote clock offset: -3.474 ms

Below is generated by plot.py at 2018-07-17 22:03:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 52.04 Mbit/s
95th percentile per-packet one-way delay: 138.150 ms
Loss rate: 34.82%
-- Flow 1:
Average throughput: 31.08 Mbit/s
95th percentile per-packet one-way delay: 136.232 ms
Loss rate: 36.11%
-- Flow 2:
Average throughput: 21.92 Mbit/s
95th percentile per-packet one-way delay: 133.098 ms
Loss rate: 30.95%
-- Flow 3:
Average throughput: 19.20 Mbit/s
95th percentile per-packet one-way delay: 148.437 ms
Loss rate: 36.69%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-07-17 21:33:01

End at: 2018-07-17 21:33:31

Local clock offset: 5.248 ms

Remote clock offset: 1.069 ms

Below is generated by plot.py at 2018-07-17 22:03:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 52.09 Mbit/s

95th percentile per-packet one-way delay: 135.968 ms

Loss rate: 38.08%

-- Flow 1:

Average throughput: 31.20 Mbit/s

95th percentile per-packet one-way delay: 124.791 ms

Loss rate: 36.16%

-- Flow 2:

Average throughput: 22.33 Mbit/s

95th percentile per-packet one-way delay: 135.719 ms

Loss rate: 38.16%

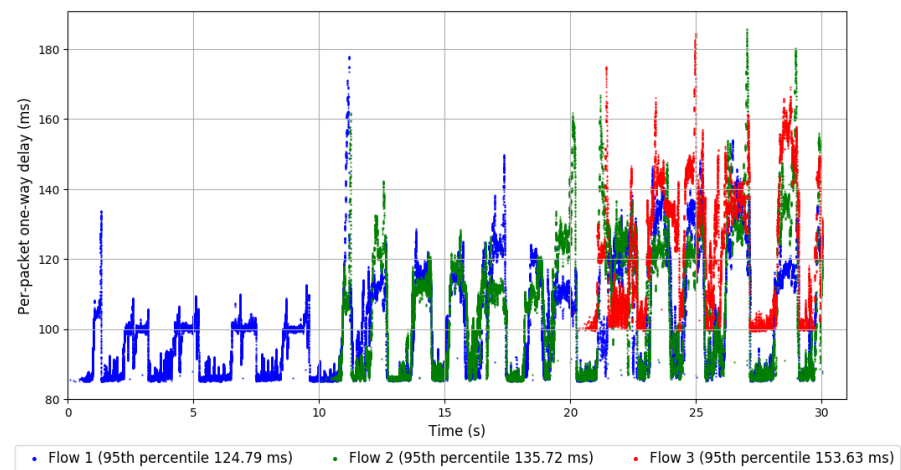
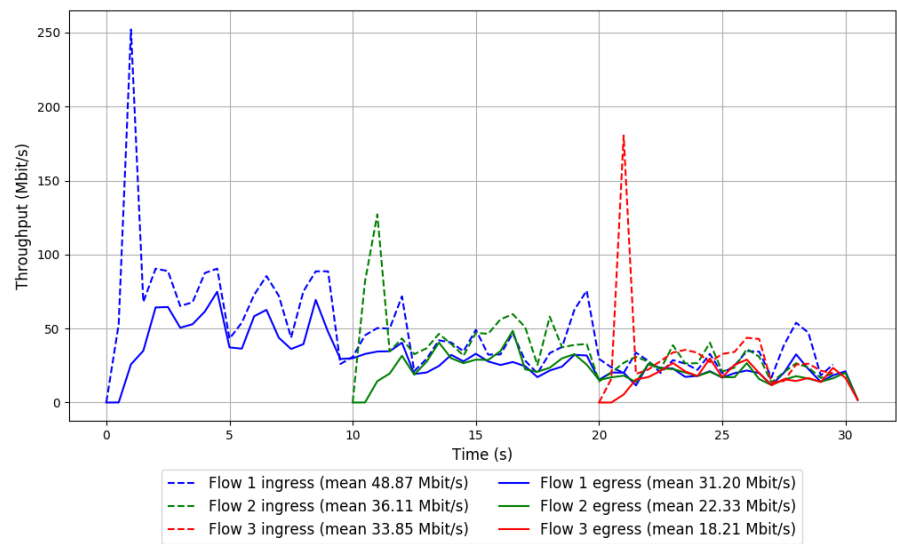
-- Flow 3:

Average throughput: 18.21 Mbit/s

95th percentile per-packet one-way delay: 153.633 ms

Loss rate: 46.25%

Run 10: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

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

End at: 2018-07-17 17:00:40

Local clock offset: 6.476 ms

Remote clock offset: 0.958 ms

Below is generated by plot.py at 2018-07-17 22:03:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 60.40 Mbit/s

95th percentile per-packet one-way delay: 143.371 ms

Loss rate: 27.39%

-- Flow 1:

Average throughput: 36.70 Mbit/s

95th percentile per-packet one-way delay: 143.120 ms

Loss rate: 29.69%

-- Flow 2:

Average throughput: 25.16 Mbit/s

95th percentile per-packet one-way delay: 144.762 ms

Loss rate: 25.62%

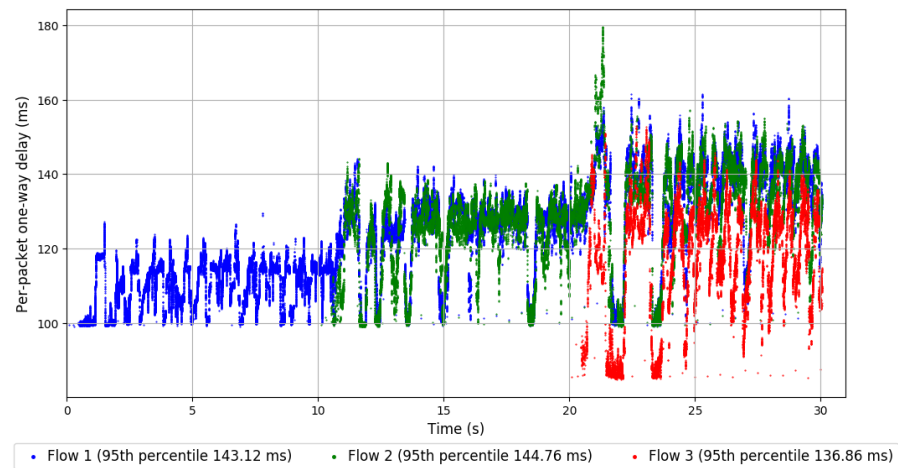
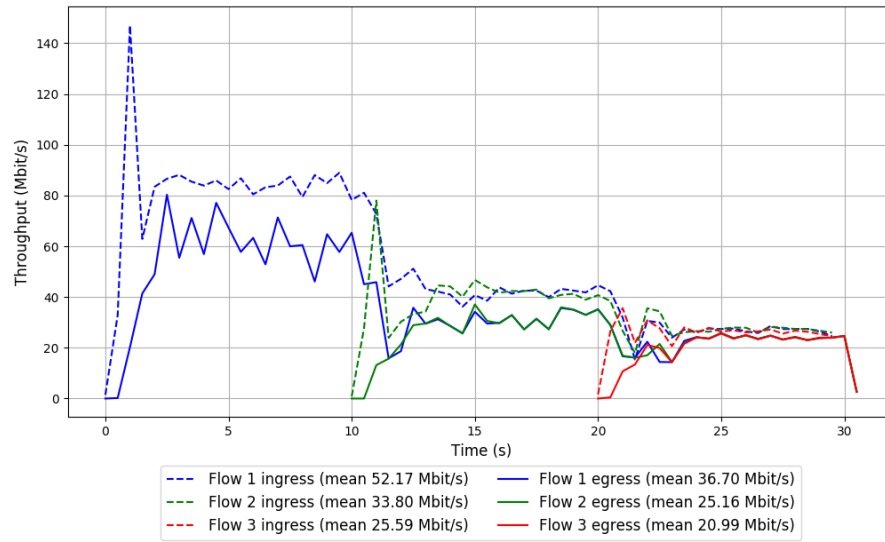
-- Flow 3:

Average throughput: 20.99 Mbit/s

95th percentile per-packet one-way delay: 136.863 ms

Loss rate: 17.91%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-07-17 17:37:18

End at: 2018-07-17 17:37:48

Local clock offset: 7.437 ms

Remote clock offset: 1.195 ms

Below is generated by plot.py at 2018-07-17 22:03:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 57.66 Mbit/s

95th percentile per-packet one-way delay: 142.281 ms

Loss rate: 35.91%

-- Flow 1:

Average throughput: 35.57 Mbit/s

95th percentile per-packet one-way delay: 132.867 ms

Loss rate: 28.39%

-- Flow 2:

Average throughput: 23.38 Mbit/s

95th percentile per-packet one-way delay: 144.570 ms

Loss rate: 51.01%

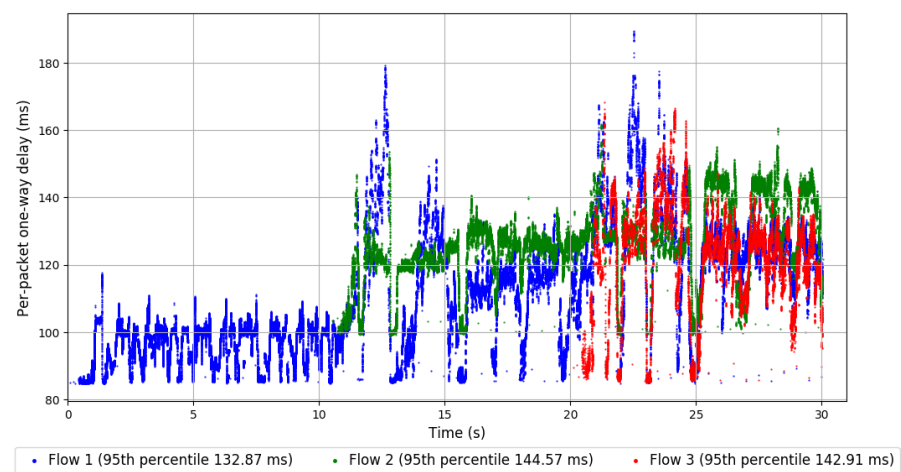
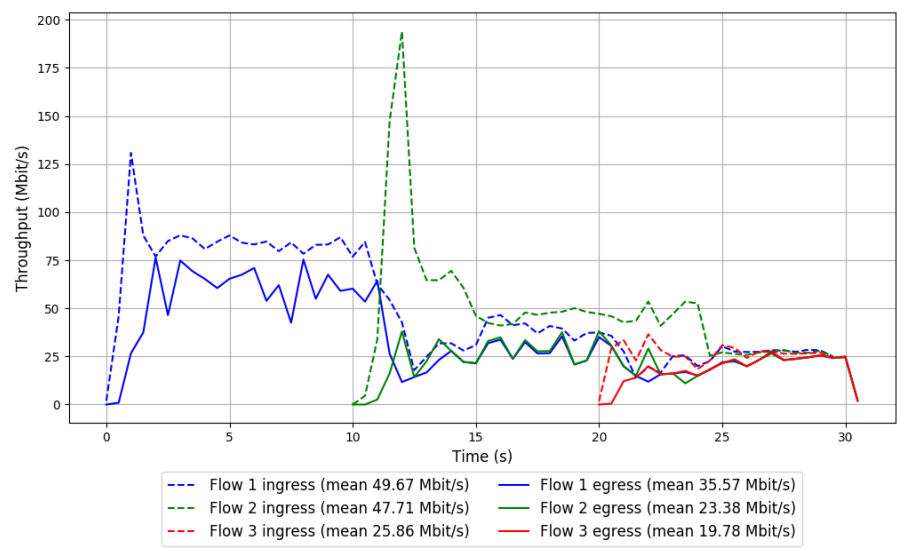
-- Flow 3:

Average throughput: 19.78 Mbit/s

95th percentile per-packet one-way delay: 142.912 ms

Loss rate: 23.53%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2018-07-17 18:07:24

End at: 2018-07-17 18:07:54

Local clock offset: -3.548 ms

Remote clock offset: 1.295 ms

Below is generated by plot.py at 2018-07-17 22:03:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 58.62 Mbit/s

95th percentile per-packet one-way delay: 144.920 ms

Loss rate: 28.30%

-- Flow 1:

Average throughput: 35.51 Mbit/s

95th percentile per-packet one-way delay: 144.480 ms

Loss rate: 29.29%

-- Flow 2:

Average throughput: 24.12 Mbit/s

95th percentile per-packet one-way delay: 146.451 ms

Loss rate: 31.27%

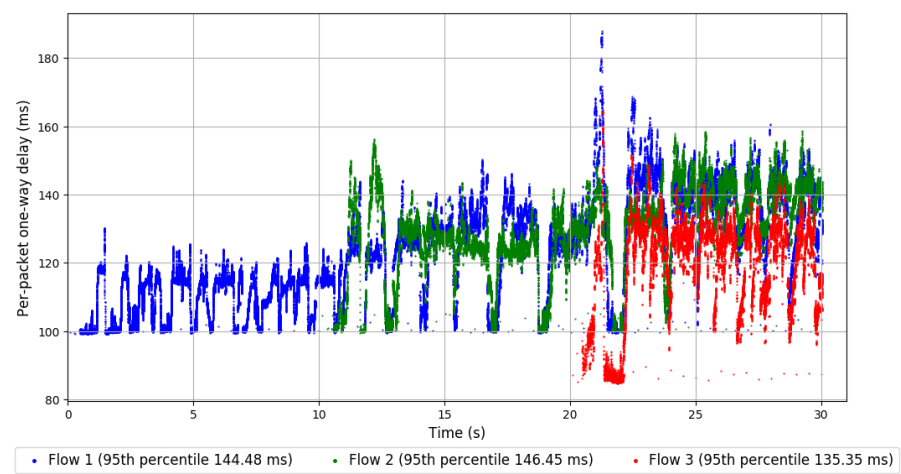
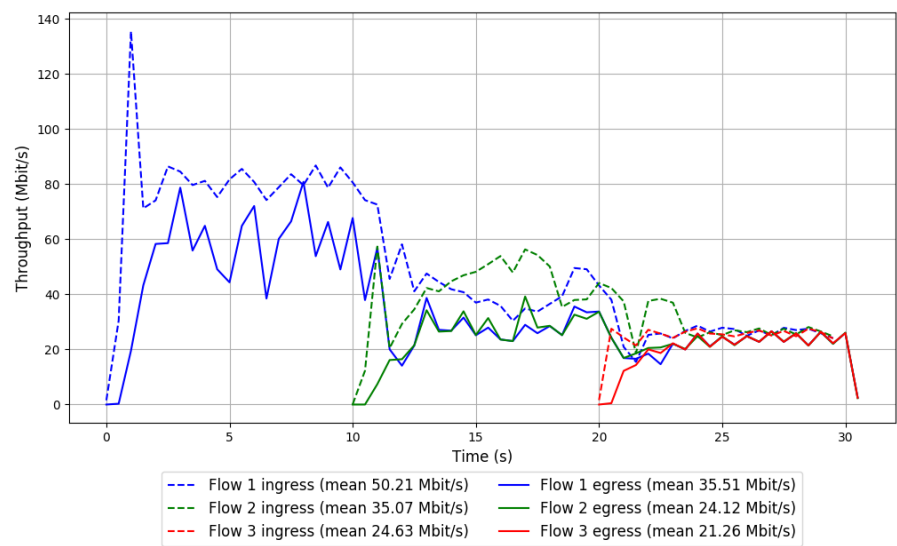
-- Flow 3:

Average throughput: 21.26 Mbit/s

95th percentile per-packet one-way delay: 135.347 ms

Loss rate: 13.72%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2018-07-17 18:37:28

End at: 2018-07-17 18:37:58

Local clock offset: -6.742 ms

Remote clock offset: 1.306 ms

Below is generated by plot.py at 2018-07-17 22:04:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 60.79 Mbit/s

95th percentile per-packet one-way delay: 140.913 ms

Loss rate: 25.52%

-- Flow 1:

Average throughput: 36.88 Mbit/s

95th percentile per-packet one-way delay: 142.553 ms

Loss rate: 29.52%

-- Flow 2:

Average throughput: 25.99 Mbit/s

95th percentile per-packet one-way delay: 131.181 ms

Loss rate: 19.05%

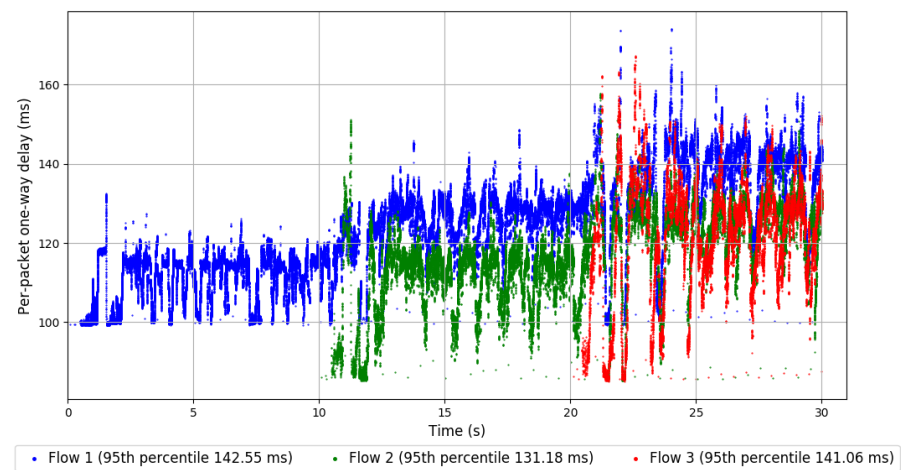
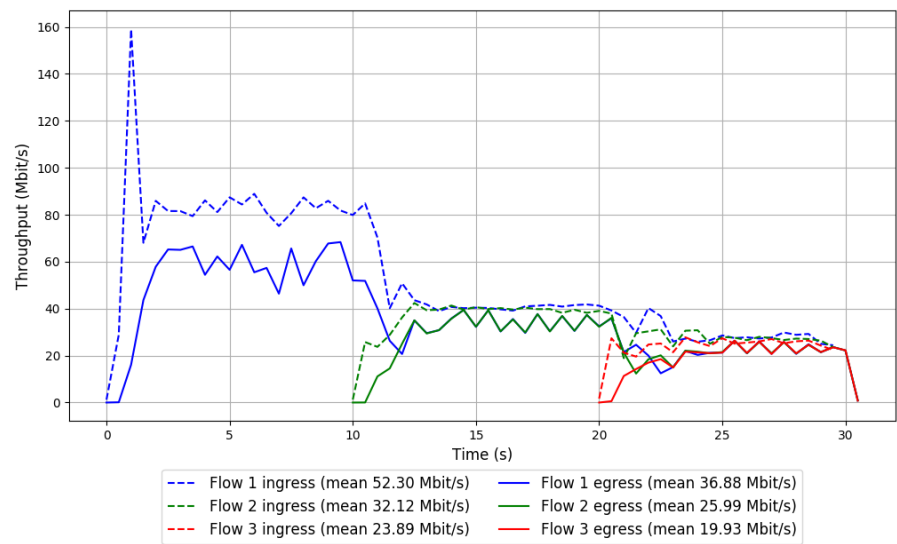
-- Flow 3:

Average throughput: 19.93 Mbit/s

95th percentile per-packet one-way delay: 141.058 ms

Loss rate: 16.57%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2018-07-17 19:08:14

End at: 2018-07-17 19:08:44

Local clock offset: 7.675 ms

Remote clock offset: 1.285 ms

Below is generated by plot.py at 2018-07-17 22:04:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 61.64 Mbit/s

95th percentile per-packet one-way delay: 142.139 ms

Loss rate: 24.61%

-- Flow 1:

Average throughput: 37.93 Mbit/s

95th percentile per-packet one-way delay: 140.805 ms

Loss rate: 27.43%

-- Flow 2:

Average throughput: 25.33 Mbit/s

95th percentile per-packet one-way delay: 131.217 ms

Loss rate: 20.83%

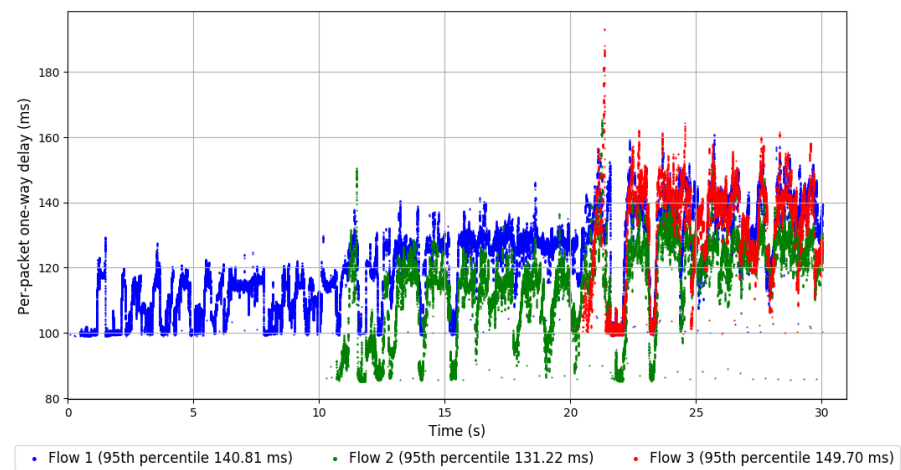
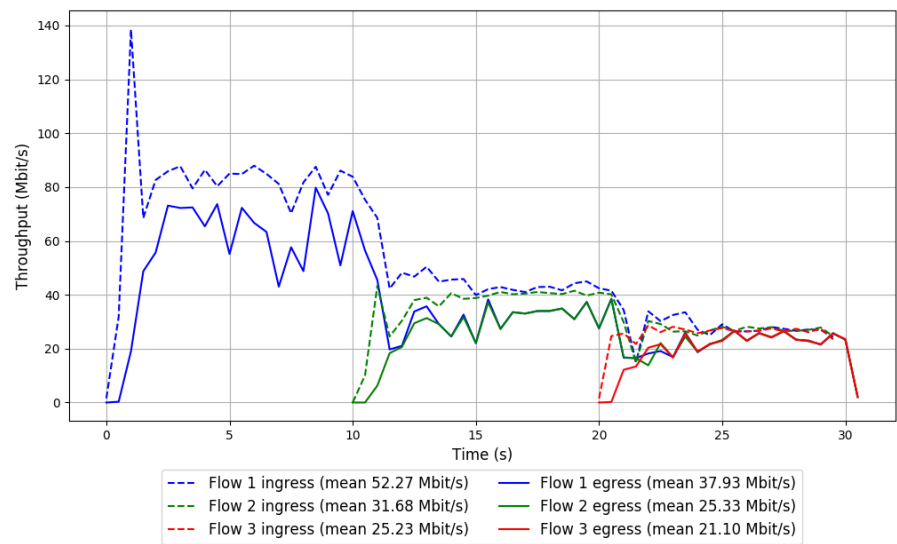
-- Flow 3:

Average throughput: 21.10 Mbit/s

95th percentile per-packet one-way delay: 149.702 ms

Loss rate: 16.49%

Run 5: Report of FillP-Sheep — Data Link



Run 6: Statistics of FillP-Sheep

Start at: 2018-07-17 19:40:01

End at: 2018-07-17 19:40:31

Local clock offset: 6.097 ms

Remote clock offset: 1.114 ms

Below is generated by plot.py at 2018-07-17 22:04:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 55.02 Mbit/s

95th percentile per-packet one-way delay: 137.783 ms

Loss rate: 33.72%

-- Flow 1:

Average throughput: 34.35 Mbit/s

95th percentile per-packet one-way delay: 134.136 ms

Loss rate: 29.31%

-- Flow 2:

Average throughput: 22.27 Mbit/s

95th percentile per-packet one-way delay: 137.623 ms

Loss rate: 45.52%

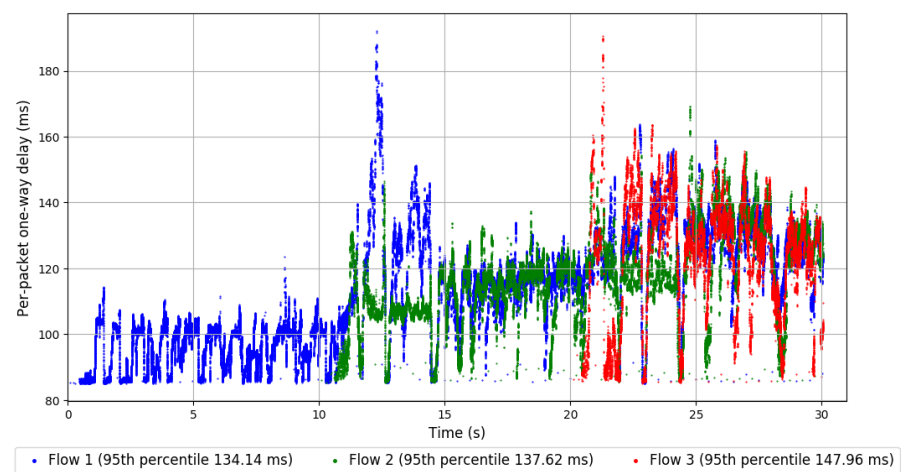
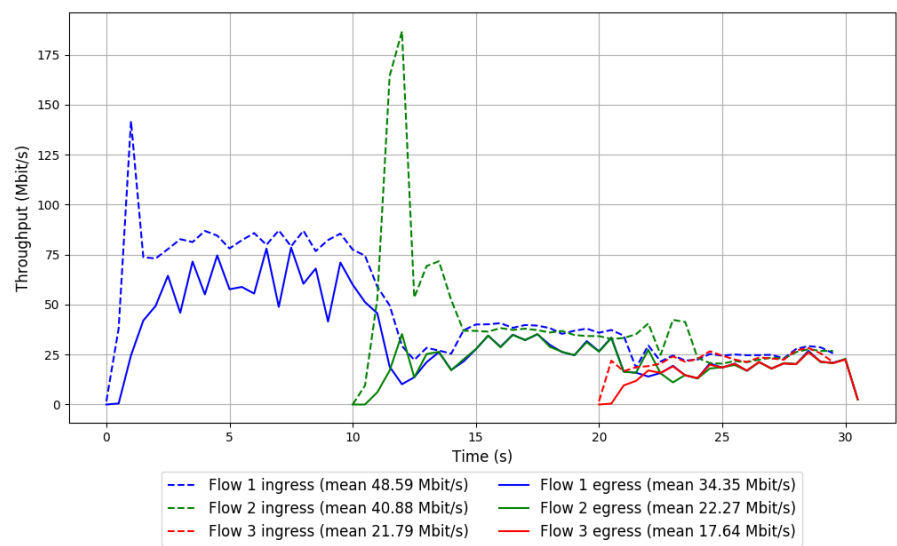
-- Flow 3:

Average throughput: 17.64 Mbit/s

95th percentile per-packet one-way delay: 147.964 ms

Loss rate: 18.97%

Run 6: Report of FillP-Sheep — Data Link



Run 7: Statistics of FillP-Sheep

Start at: 2018-07-17 20:13:36

End at: 2018-07-17 20:14:06

Local clock offset: 4.593 ms

Remote clock offset: 1.012 ms

Below is generated by plot.py at 2018-07-17 22:04:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 60.10 Mbit/s

95th percentile per-packet one-way delay: 144.800 ms

Loss rate: 27.67%

-- Flow 1:

Average throughput: 36.87 Mbit/s

95th percentile per-packet one-way delay: 142.152 ms

Loss rate: 29.79%

-- Flow 2:

Average throughput: 24.41 Mbit/s

95th percentile per-packet one-way delay: 144.288 ms

Loss rate: 28.19%

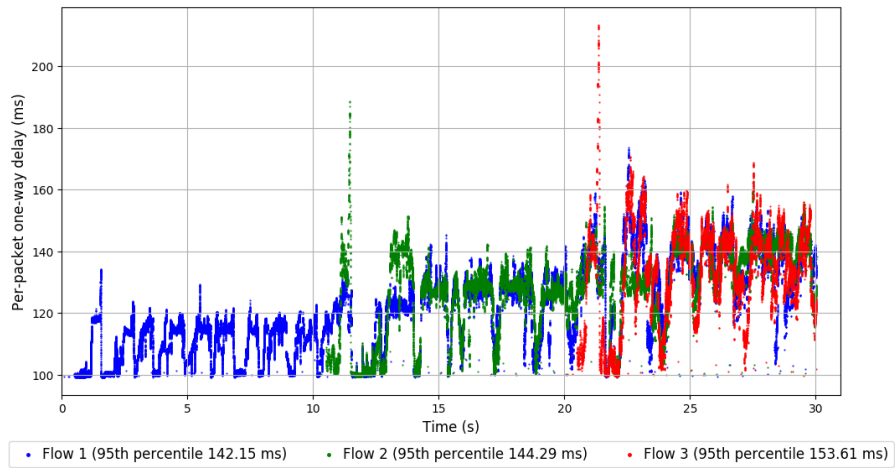
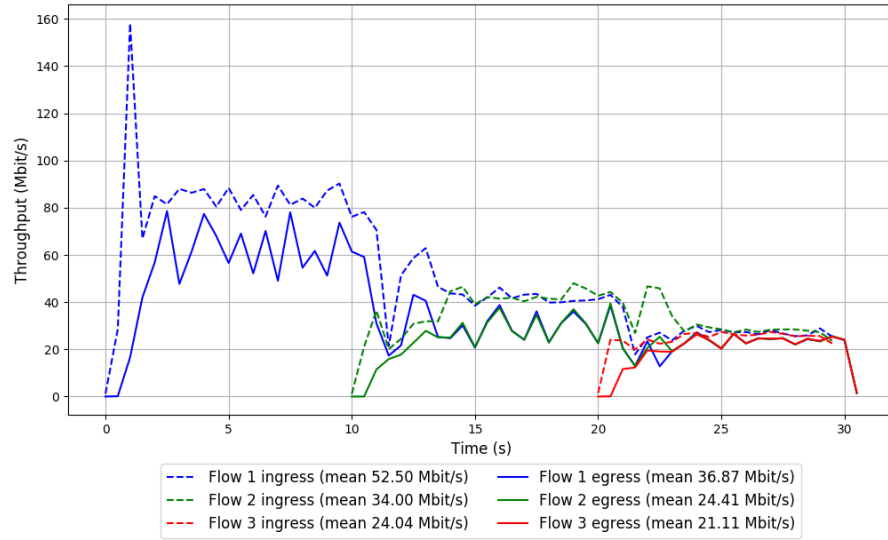
-- Flow 3:

Average throughput: 21.11 Mbit/s

95th percentile per-packet one-way delay: 153.614 ms

Loss rate: 12.19%

Run 7: Report of FillP-Sheep — Data Link



Run 8: Statistics of FillP-Sheep

Start at: 2018-07-17 20:49:47

End at: 2018-07-17 20:50:17

Local clock offset: 6.442 ms

Remote clock offset: 0.958 ms

Below is generated by plot.py at 2018-07-17 22:04:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 60.32 Mbit/s

95th percentile per-packet one-way delay: 145.632 ms

Loss rate: 27.32%

-- Flow 1:

Average throughput: 36.80 Mbit/s

95th percentile per-packet one-way delay: 144.283 ms

Loss rate: 28.70%

-- Flow 2:

Average throughput: 25.12 Mbit/s

95th percentile per-packet one-way delay: 144.372 ms

Loss rate: 26.35%

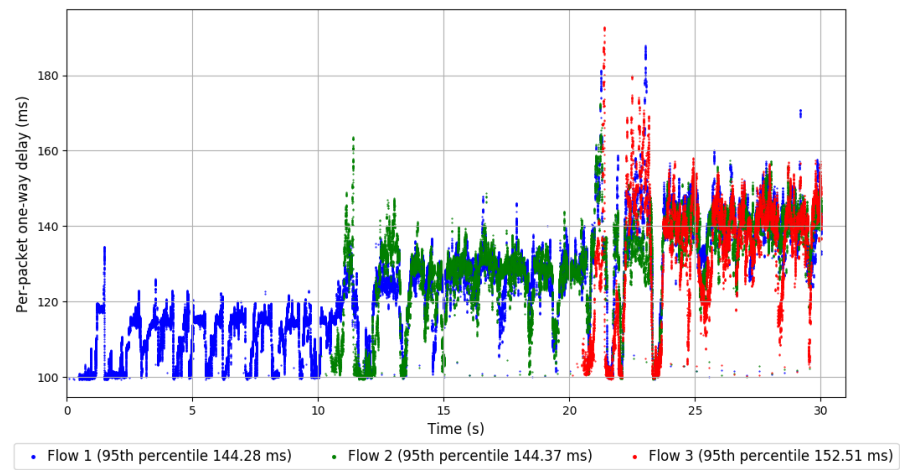
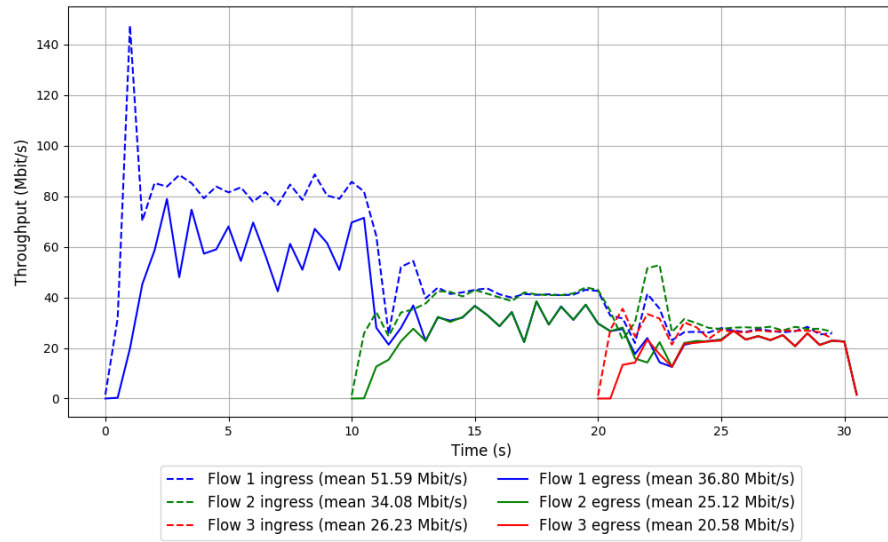
-- Flow 3:

Average throughput: 20.58 Mbit/s

95th percentile per-packet one-way delay: 152.514 ms

Loss rate: 21.63%

Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

Start at: 2018-07-17 21:20:17

End at: 2018-07-17 21:20:47

Local clock offset: 6.032 ms

Remote clock offset: 1.052 ms

Below is generated by plot.py at 2018-07-17 22:04:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 55.94 Mbit/s

95th percentile per-packet one-way delay: 131.703 ms

Loss rate: 31.07%

-- Flow 1:

Average throughput: 34.74 Mbit/s

95th percentile per-packet one-way delay: 128.467 ms

Loss rate: 33.33%

-- Flow 2:

Average throughput: 22.57 Mbit/s

95th percentile per-packet one-way delay: 133.950 ms

Loss rate: 26.82%

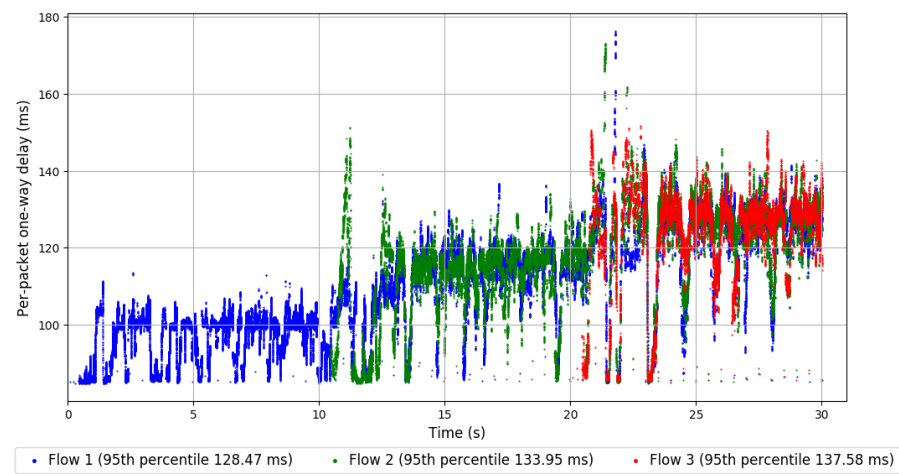
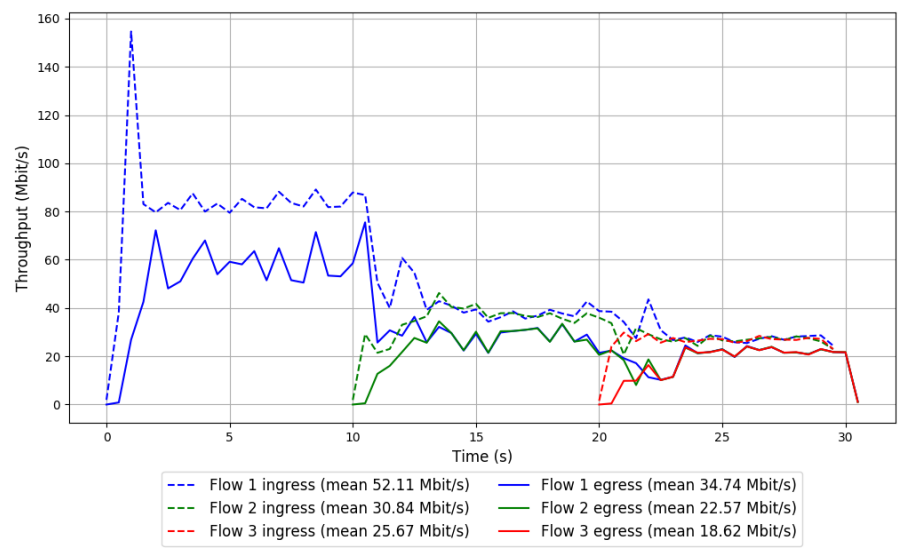
-- Flow 3:

Average throughput: 18.62 Mbit/s

95th percentile per-packet one-way delay: 137.581 ms

Loss rate: 27.49%

Run 9: Report of FillP-Sheep — Data Link



Run 10: Statistics of FillP-Sheep

Start at: 2018-07-17 21:50:31

End at: 2018-07-17 21:51:01

Local clock offset: 3.071 ms

Remote clock offset: 0.987 ms

Below is generated by plot.py at 2018-07-17 22:04:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 57.17 Mbit/s

95th percentile per-packet one-way delay: 143.541 ms

Loss rate: 30.22%

-- Flow 1:

Average throughput: 34.01 Mbit/s

95th percentile per-packet one-way delay: 142.674 ms

Loss rate: 32.83%

-- Flow 2:

Average throughput: 24.26 Mbit/s

95th percentile per-packet one-way delay: 131.238 ms

Loss rate: 27.76%

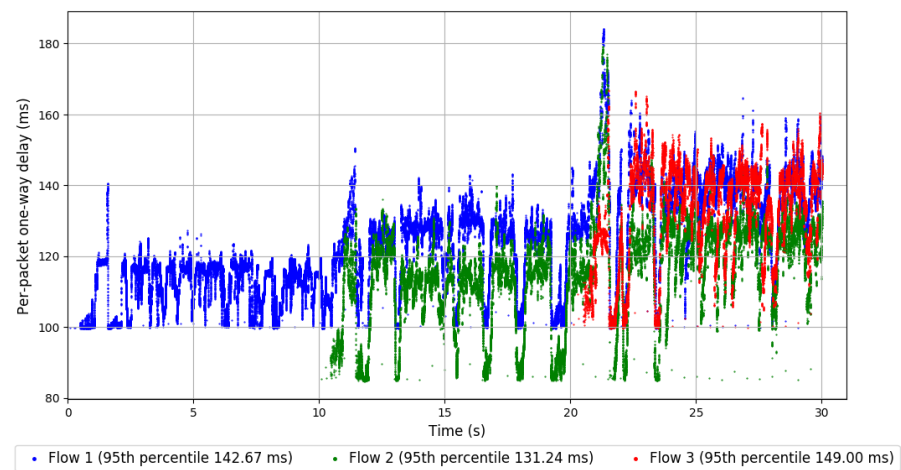
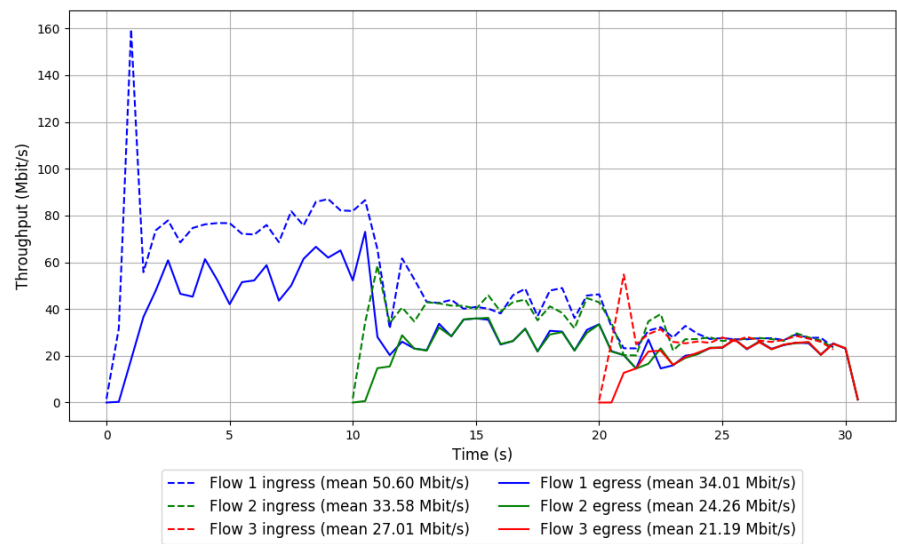
-- Flow 3:

Average throughput: 21.19 Mbit/s

95th percentile per-packet one-way delay: 148.995 ms

Loss rate: 21.64%

Run 10: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2018-07-17 17:03:57

End at: 2018-07-17 17:04:27

Local clock offset: 6.527 ms

Remote clock offset: 1.021 ms

Below is generated by plot.py at 2018-07-17 22:04:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 52.17 Mbit/s

95th percentile per-packet one-way delay: 151.929 ms

Loss rate: 12.88%

-- Flow 1:

Average throughput: 32.07 Mbit/s

95th percentile per-packet one-way delay: 136.038 ms

Loss rate: 6.33%

-- Flow 2:

Average throughput: 22.84 Mbit/s

95th percentile per-packet one-way delay: 164.920 ms

Loss rate: 25.88%

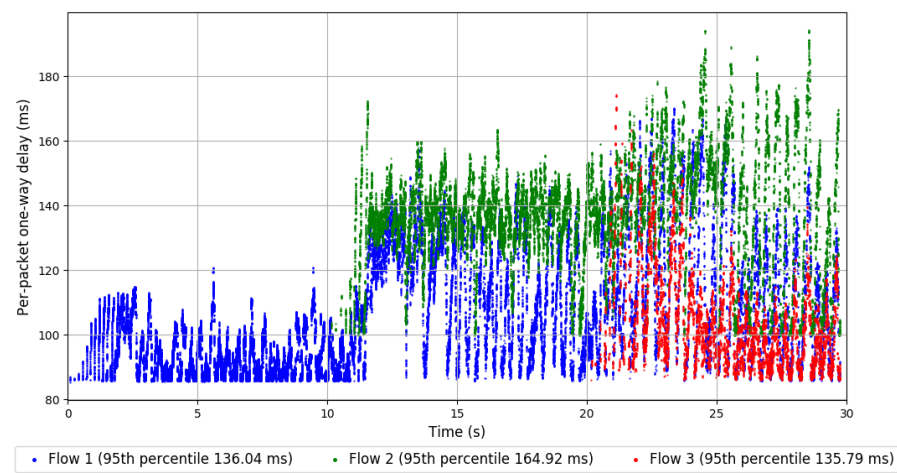
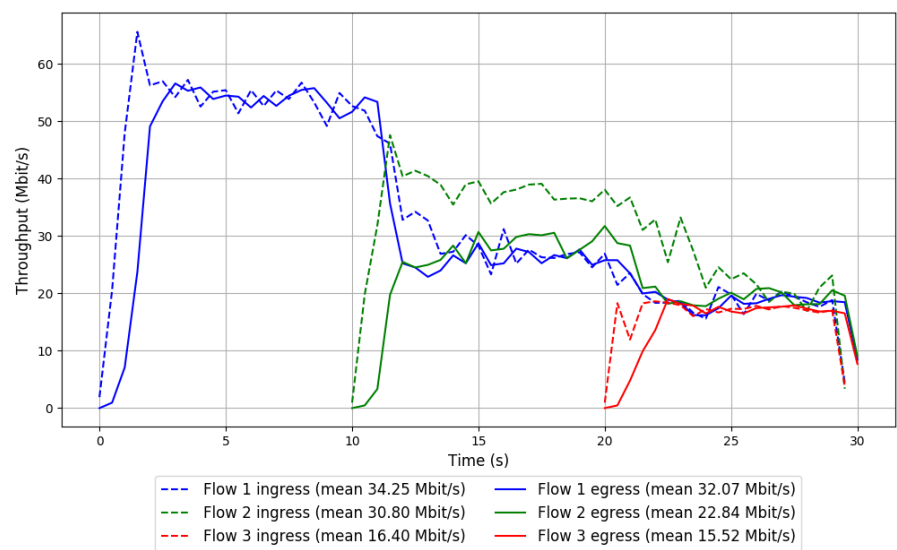
-- Flow 3:

Average throughput: 15.52 Mbit/s

95th percentile per-packet one-way delay: 135.787 ms

Loss rate: 5.30%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-07-17 17:40:54

End at: 2018-07-17 17:41:24

Local clock offset: 7.546 ms

Remote clock offset: 1.264 ms

Below is generated by plot.py at 2018-07-17 22:04:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.62 Mbit/s

95th percentile per-packet one-way delay: 146.179 ms

Loss rate: 17.41%

-- Flow 1:

Average throughput: 32.85 Mbit/s

95th percentile per-packet one-way delay: 149.812 ms

Loss rate: 23.49%

-- Flow 2:

Average throughput: 16.62 Mbit/s

95th percentile per-packet one-way delay: 110.102 ms

Loss rate: 0.81%

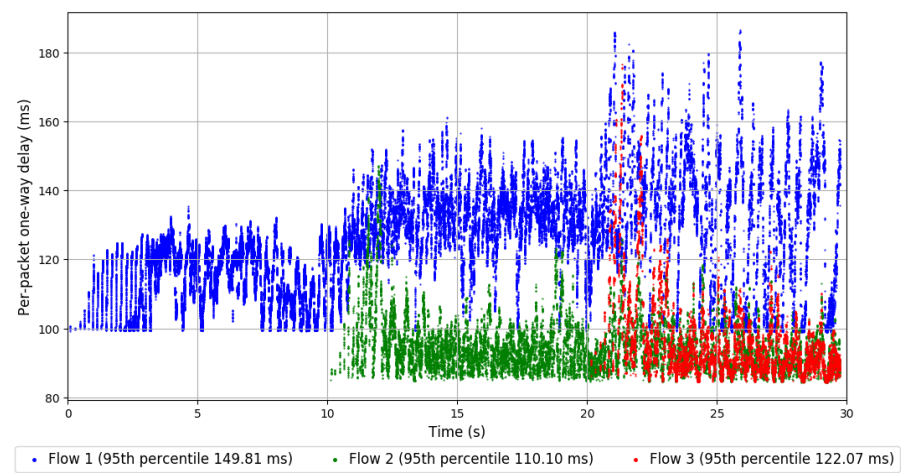
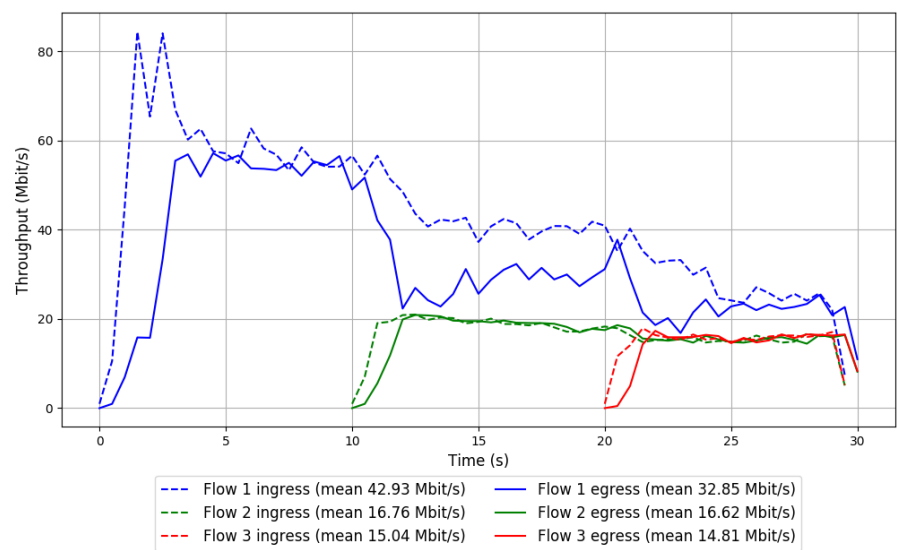
-- Flow 3:

Average throughput: 14.81 Mbit/s

95th percentile per-packet one-way delay: 122.068 ms

Loss rate: 1.57%

Run 2: Report of Indigo — Data Link

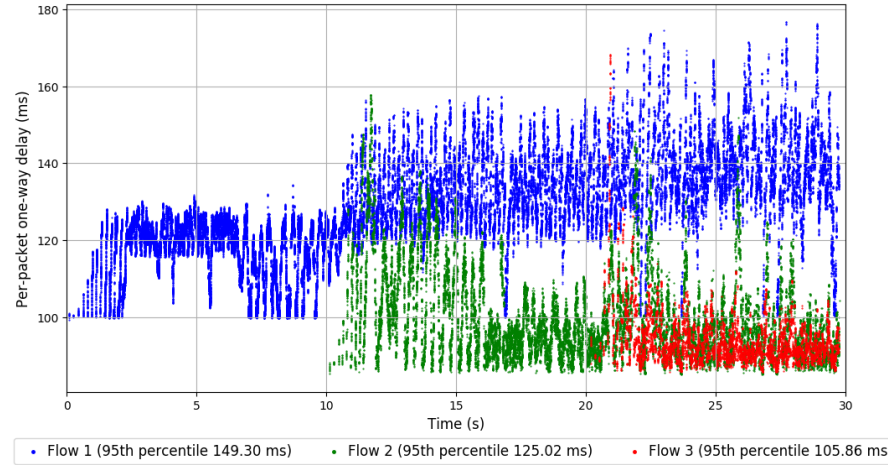
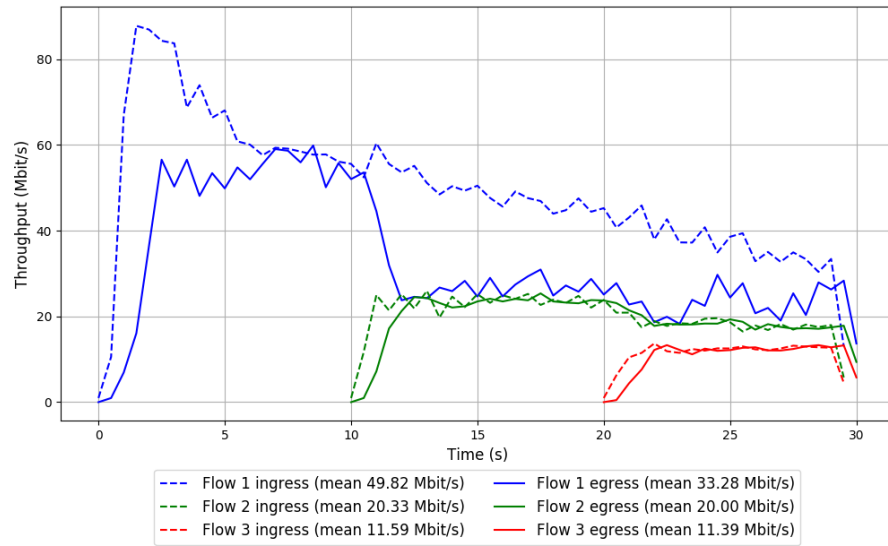


Run 3: Statistics of Indigo

Start at: 2018-07-17 18:11:15
End at: 2018-07-17 18:11:45
Local clock offset: -3.963 ms
Remote clock offset: 1.334 ms

Below is generated by plot.py at 2018-07-17 22:04:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 50.19 Mbit/s
95th percentile per-packet one-way delay: 146.625 ms
Loss rate: 25.12%
-- Flow 1:
Average throughput: 33.28 Mbit/s
95th percentile per-packet one-way delay: 149.300 ms
Loss rate: 33.23%
-- Flow 2:
Average throughput: 20.00 Mbit/s
95th percentile per-packet one-way delay: 125.018 ms
Loss rate: 1.55%
-- Flow 3:
Average throughput: 11.39 Mbit/s
95th percentile per-packet one-way delay: 105.862 ms
Loss rate: 1.72%

Run 3: Report of Indigo — Data Link

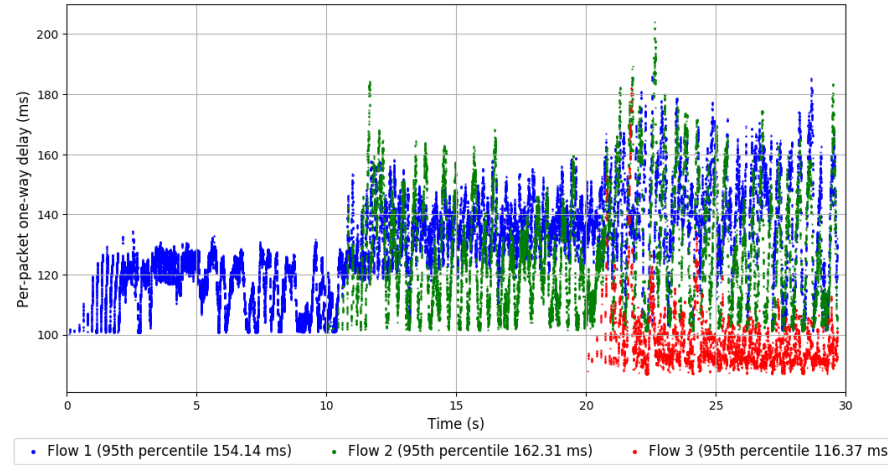
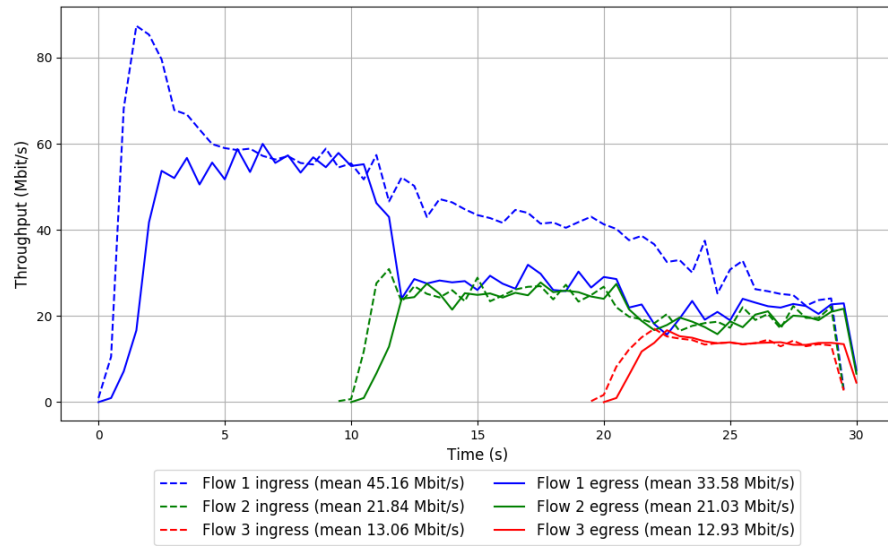


Run 4: Statistics of Indigo

Start at: 2018-07-17 18:41:20
End at: 2018-07-17 18:41:50
Local clock offset: -6.336 ms
Remote clock offset: 1.344 ms

Below is generated by plot.py at 2018-07-17 22:04:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 51.71 Mbit/s
95th percentile per-packet one-way delay: 156.563 ms
Loss rate: 19.09%
-- Flow 1:
Average throughput: 33.58 Mbit/s
95th percentile per-packet one-way delay: 154.139 ms
Loss rate: 25.68%
-- Flow 2:
Average throughput: 21.03 Mbit/s
95th percentile per-packet one-way delay: 162.312 ms
Loss rate: 3.81%
-- Flow 3:
Average throughput: 12.93 Mbit/s
95th percentile per-packet one-way delay: 116.374 ms
Loss rate: 0.97%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-07-17 19:11:50

End at: 2018-07-17 19:12:20

Local clock offset: 7.597 ms

Remote clock offset: 1.367 ms

Below is generated by plot.py at 2018-07-17 22:05:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 50.54 Mbit/s

95th percentile per-packet one-way delay: 154.681 ms

Loss rate: 25.62%

-- Flow 1:

Average throughput: 32.55 Mbit/s

95th percentile per-packet one-way delay: 151.893 ms

Loss rate: 33.07%

-- Flow 2:

Average throughput: 20.21 Mbit/s

95th percentile per-packet one-way delay: 159.748 ms

Loss rate: 8.60%

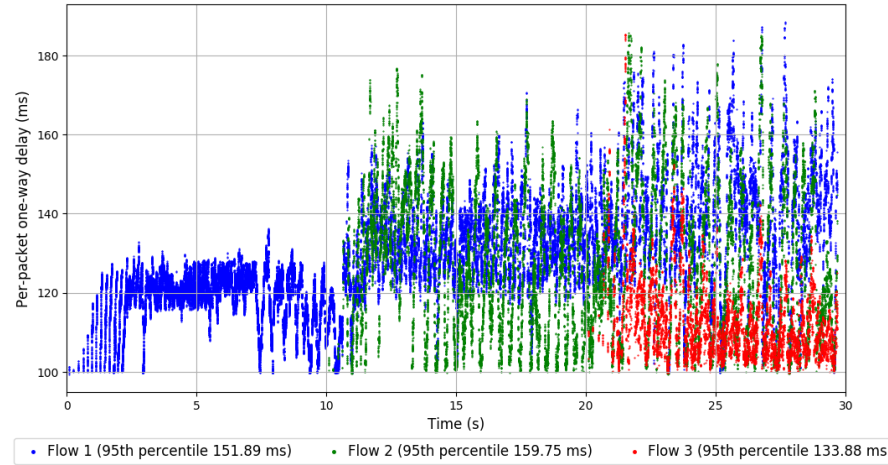
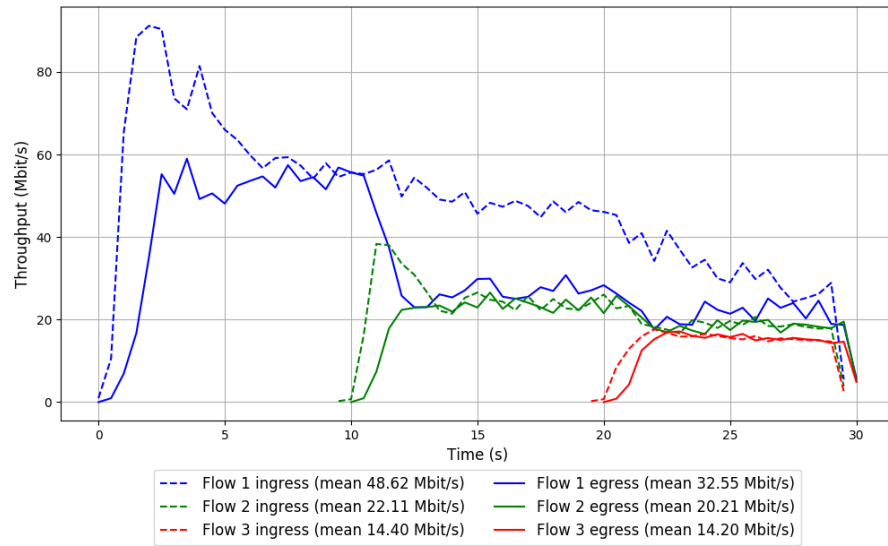
-- Flow 3:

Average throughput: 14.20 Mbit/s

95th percentile per-packet one-way delay: 133.875 ms

Loss rate: 1.47%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-07-17 19:44:13

End at: 2018-07-17 19:44:43

Local clock offset: 5.296 ms

Remote clock offset: 1.16 ms

Below is generated by plot.py at 2018-07-17 22:05:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 50.98 Mbit/s

95th percentile per-packet one-way delay: 150.982 ms

Loss rate: 6.31%

-- Flow 1:

Average throughput: 32.24 Mbit/s

95th percentile per-packet one-way delay: 153.532 ms

Loss rate: 8.90%

-- Flow 2:

Average throughput: 19.94 Mbit/s

95th percentile per-packet one-way delay: 118.961 ms

Loss rate: 0.72%

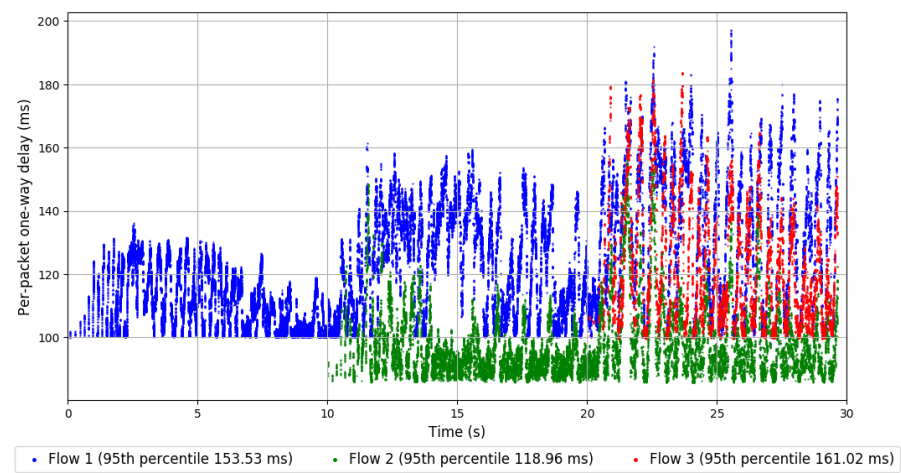
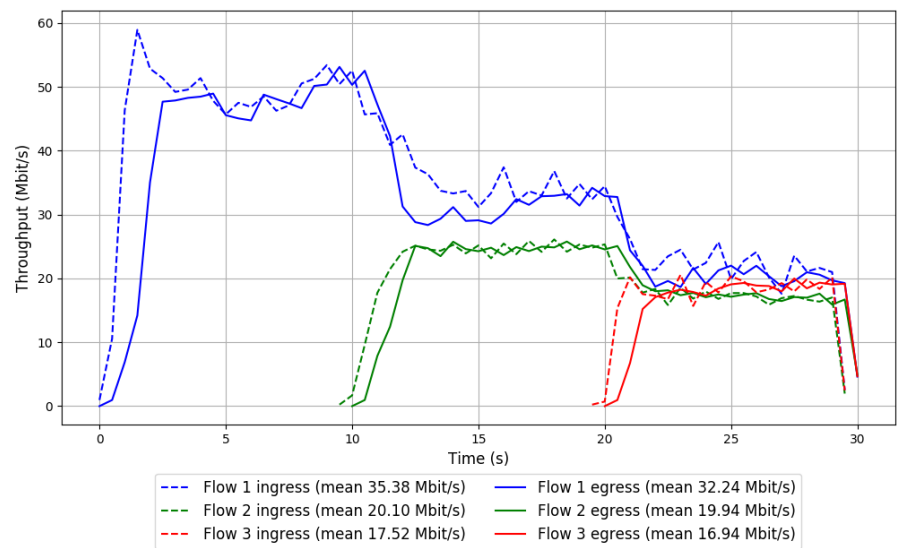
-- Flow 3:

Average throughput: 16.94 Mbit/s

95th percentile per-packet one-way delay: 161.018 ms

Loss rate: 3.38%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-07-17 20:18:23

End at: 2018-07-17 20:18:53

Local clock offset: 5.329 ms

Remote clock offset: 1.06 ms

Below is generated by plot.py at 2018-07-17 22:05:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 51.32 Mbit/s

95th percentile per-packet one-way delay: 146.088 ms

Loss rate: 6.54%

-- Flow 1:

Average throughput: 32.15 Mbit/s

95th percentile per-packet one-way delay: 136.714 ms

Loss rate: 7.56%

-- Flow 2:

Average throughput: 22.14 Mbit/s

95th percentile per-packet one-way delay: 155.520 ms

Loss rate: 5.62%

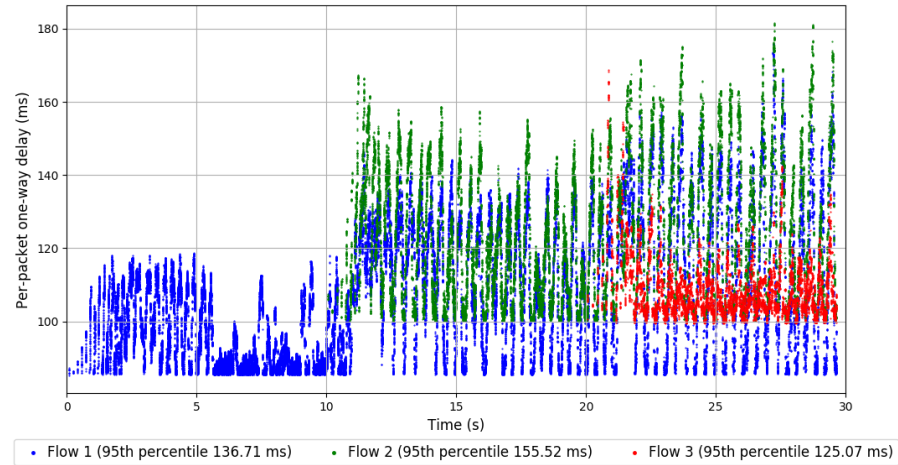
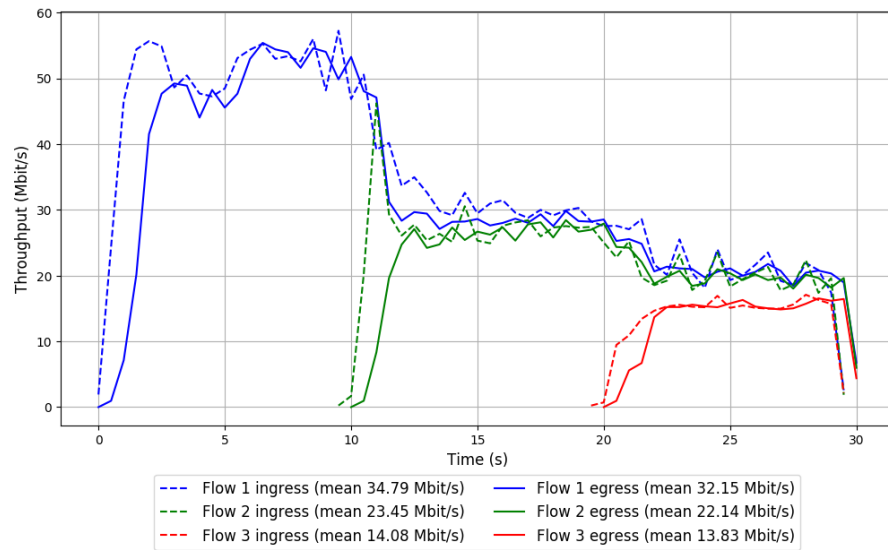
-- Flow 3:

Average throughput: 13.83 Mbit/s

95th percentile per-packet one-way delay: 125.073 ms

Loss rate: 1.89%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-07-17 20:54:16

End at: 2018-07-17 20:54:46

Local clock offset: 6.626 ms

Remote clock offset: 1.021 ms

Below is generated by plot.py at 2018-07-17 22:05:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 50.27 Mbit/s

95th percentile per-packet one-way delay: 152.808 ms

Loss rate: 19.45%

-- Flow 1:

Average throughput: 32.54 Mbit/s

95th percentile per-packet one-way delay: 153.492 ms

Loss rate: 25.31%

-- Flow 2:

Average throughput: 19.61 Mbit/s

95th percentile per-packet one-way delay: 150.619 ms

Loss rate: 6.09%

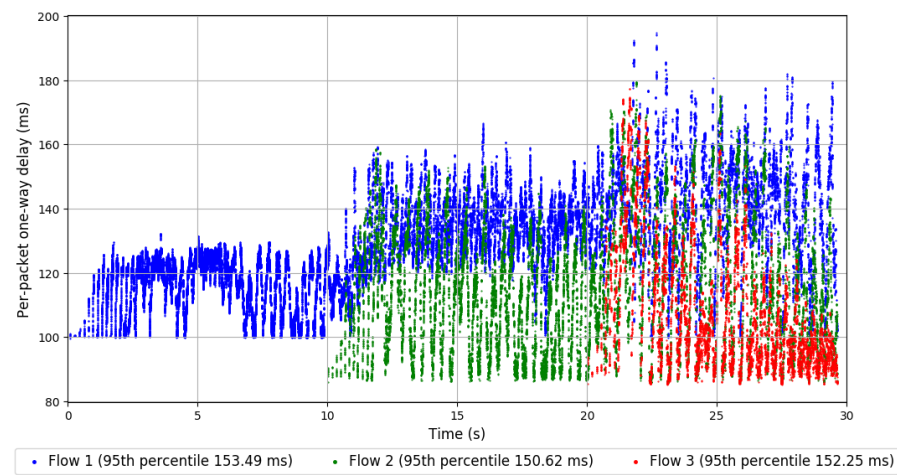
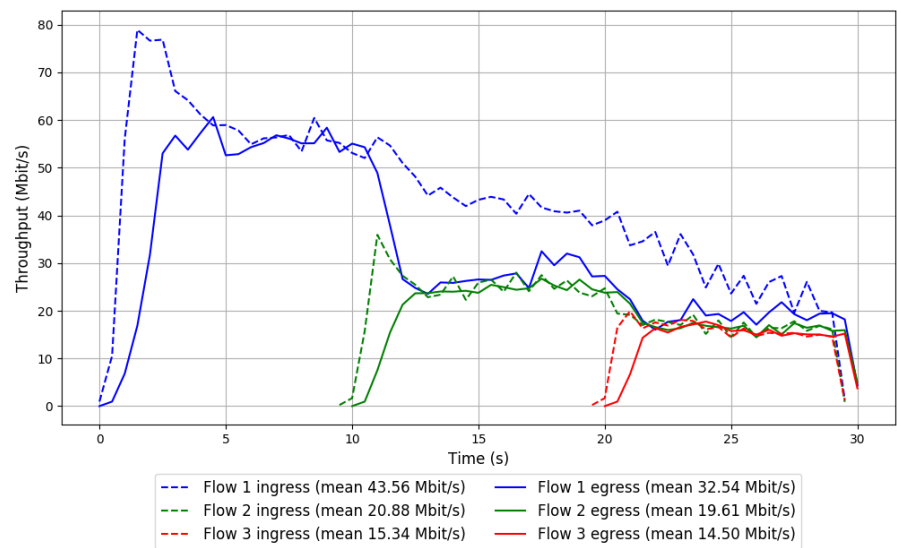
-- Flow 3:

Average throughput: 14.50 Mbit/s

95th percentile per-packet one-way delay: 152.248 ms

Loss rate: 5.42%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-07-17 21:23:48

End at: 2018-07-17 21:24:18

Local clock offset: 5.806 ms

Remote clock offset: 1.045 ms

Below is generated by plot.py at 2018-07-17 22:05:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.80 Mbit/s

95th percentile per-packet one-way delay: 133.886 ms

Loss rate: 5.58%

-- Flow 1:

Average throughput: 34.59 Mbit/s

95th percentile per-packet one-way delay: 133.554 ms

Loss rate: 6.48%

-- Flow 2:

Average throughput: 23.76 Mbit/s

95th percentile per-packet one-way delay: 135.433 ms

Loss rate: 4.67%

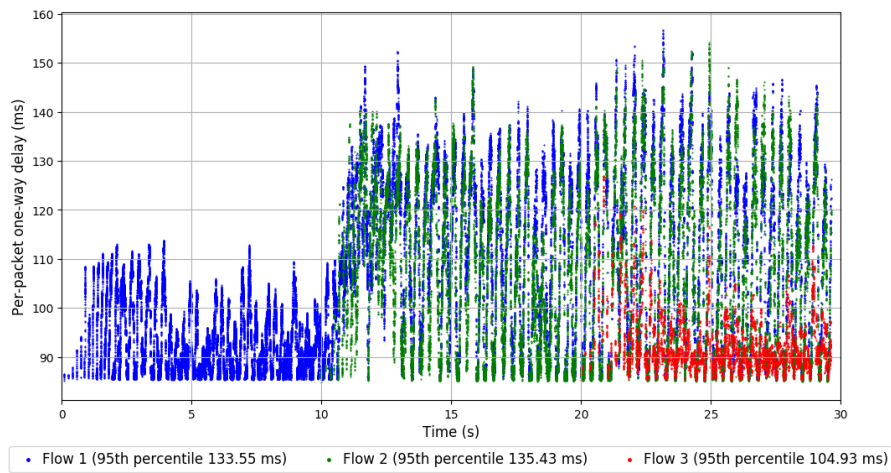
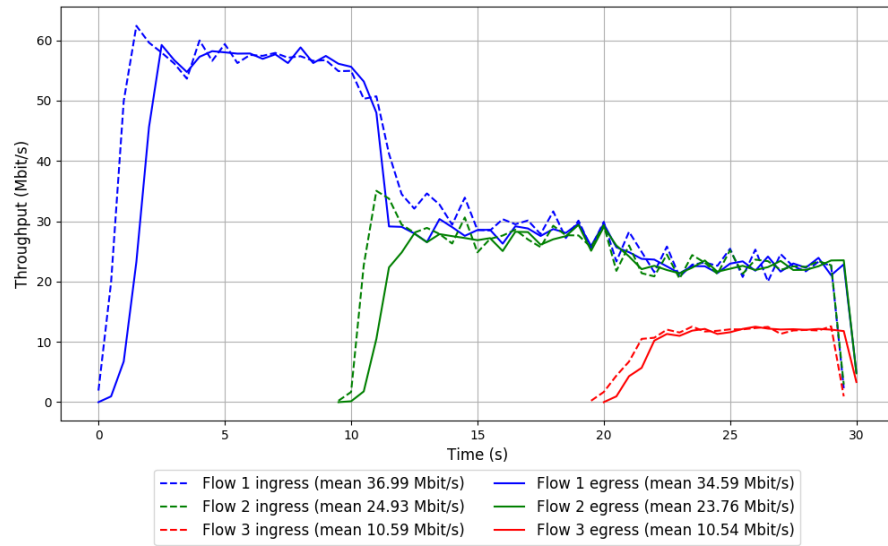
-- Flow 3:

Average throughput: 10.54 Mbit/s

95th percentile per-packet one-way delay: 104.932 ms

Loss rate: 0.37%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-07-17 21:54:23

End at: 2018-07-17 21:54:53

Local clock offset: 2.566 ms

Remote clock offset: 1.0 ms

Below is generated by plot.py at 2018-07-17 22:05:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.54 Mbit/s

95th percentile per-packet one-way delay: 145.075 ms

Loss rate: 8.07%

-- Flow 1:

Average throughput: 34.42 Mbit/s

95th percentile per-packet one-way delay: 148.254 ms

Loss rate: 10.99%

-- Flow 2:

Average throughput: 16.85 Mbit/s

95th percentile per-packet one-way delay: 106.637 ms

Loss rate: 0.41%

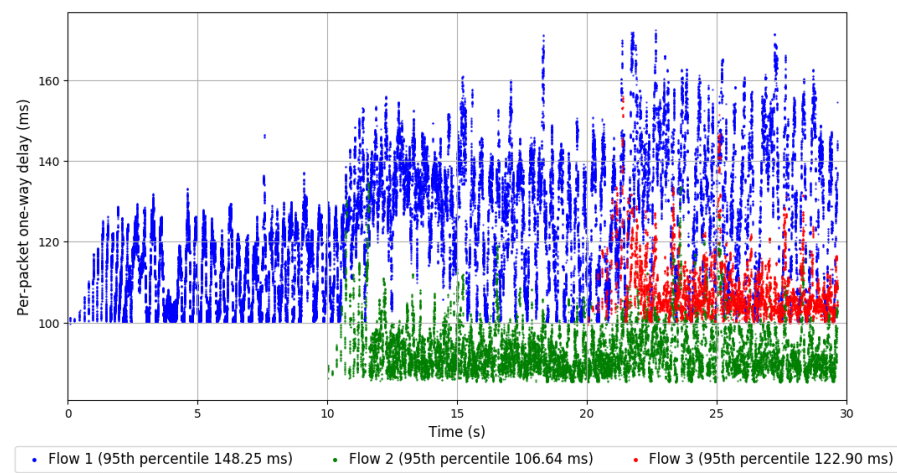
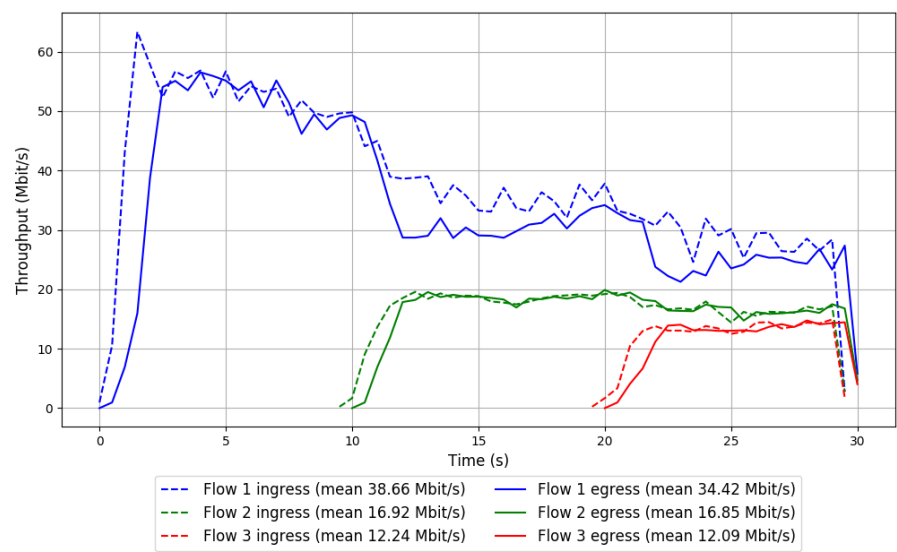
-- Flow 3:

Average throughput: 12.09 Mbit/s

95th percentile per-packet one-way delay: 122.904 ms

Loss rate: 1.34%

Run 10: Report of Indigo — Data Link



Run 1: Statistics of LEDBAT

Start at: 2018-07-17 16:44:04

End at: 2018-07-17 16:44:34

Local clock offset: 4.544 ms

Remote clock offset: 0.665 ms

Below is generated by plot.py at 2018-07-17 22:05:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 9.11 Mbit/s

95th percentile per-packet one-way delay: 102.131 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 6.17 Mbit/s

95th percentile per-packet one-way delay: 102.190 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 4.43 Mbit/s

95th percentile per-packet one-way delay: 101.977 ms

Loss rate: 0.31%

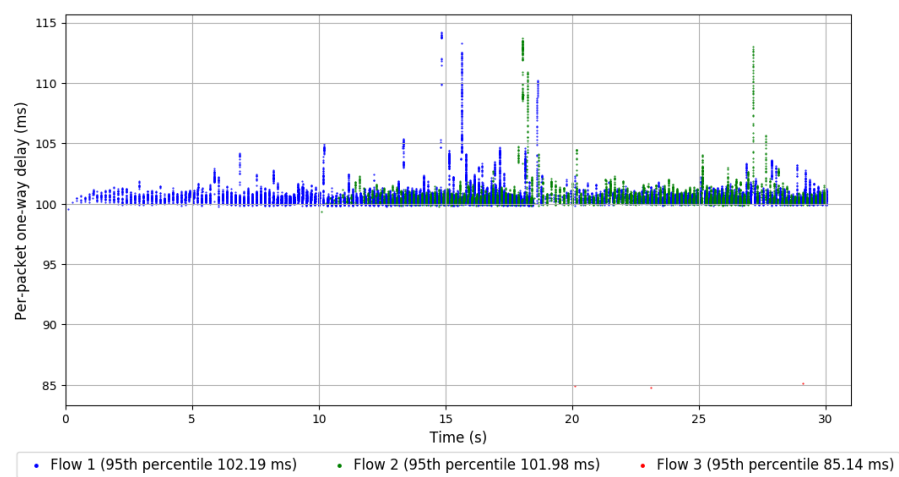
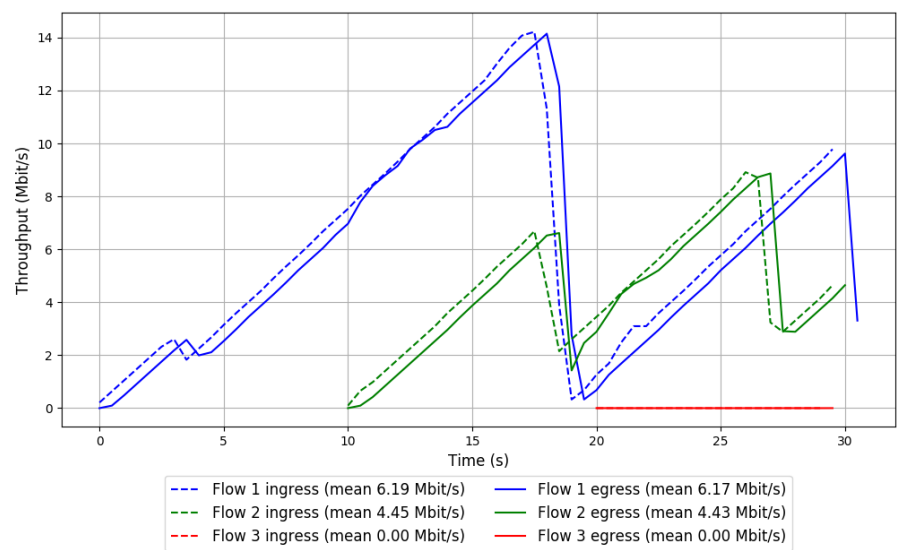
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 85.144 ms

Loss rate: 0.00%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-07-17 17:15:51

End at: 2018-07-17 17:16:21

Local clock offset: 6.861 ms

Remote clock offset: 1.144 ms

Below is generated by plot.py at 2018-07-17 22:05:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 11.96 Mbit/s

95th percentile per-packet one-way delay: 102.844 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 6.84 Mbit/s

95th percentile per-packet one-way delay: 103.011 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 5.82 Mbit/s

95th percentile per-packet one-way delay: 102.978 ms

Loss rate: 0.43%

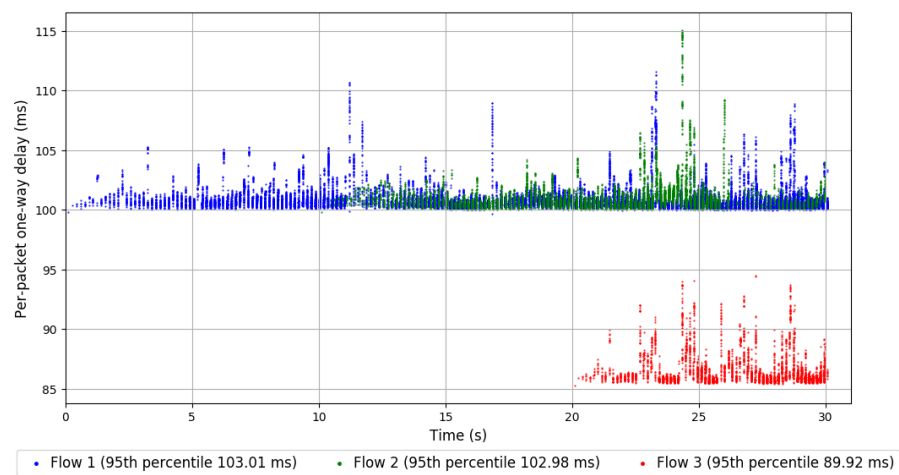
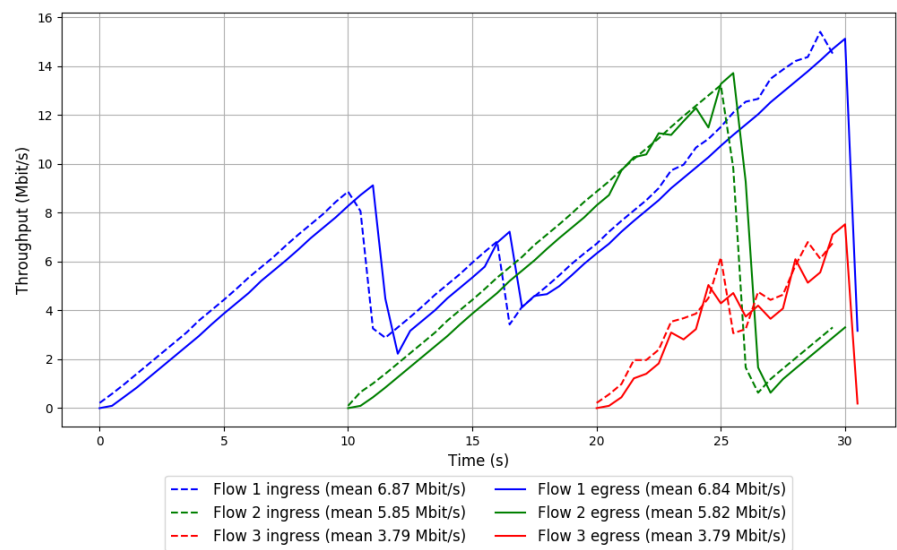
-- Flow 3:

Average throughput: 3.79 Mbit/s

95th percentile per-packet one-way delay: 89.918 ms

Loss rate: 0.03%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-07-17 17:51:48

End at: 2018-07-17 17:52:18

Local clock offset: 0.08 ms

Remote clock offset: 1.359 ms

Below is generated by plot.py at 2018-07-17 22:05:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 11.85 Mbit/s

95th percentile per-packet one-way delay: 102.682 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 7.10 Mbit/s

95th percentile per-packet one-way delay: 103.829 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 5.26 Mbit/s

95th percentile per-packet one-way delay: 90.727 ms

Loss rate: 0.34%

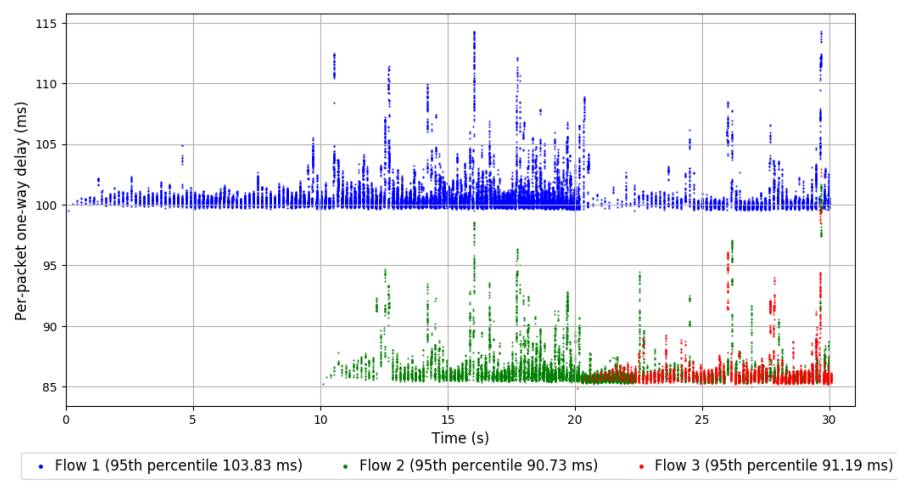
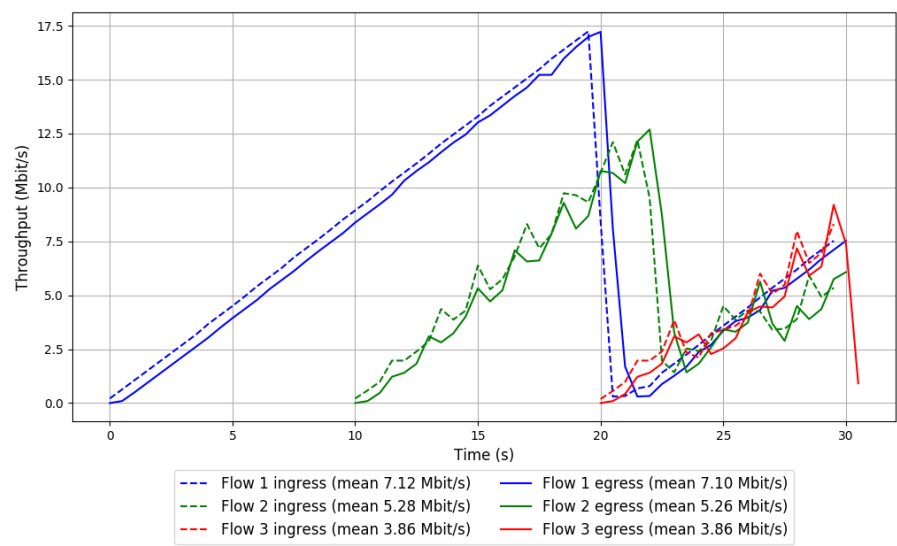
-- Flow 3:

Average throughput: 3.86 Mbit/s

95th percentile per-packet one-way delay: 91.195 ms

Loss rate: 0.03%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-07-17 18:21:45

End at: 2018-07-17 18:22:15

Local clock offset: -5.179 ms

Remote clock offset: 1.295 ms

Below is generated by plot.py at 2018-07-17 22:05:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 11.25 Mbit/s

95th percentile per-packet one-way delay: 88.534 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 5.60 Mbit/s

95th percentile per-packet one-way delay: 87.994 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 6.37 Mbit/s

95th percentile per-packet one-way delay: 88.927 ms

Loss rate: 0.14%

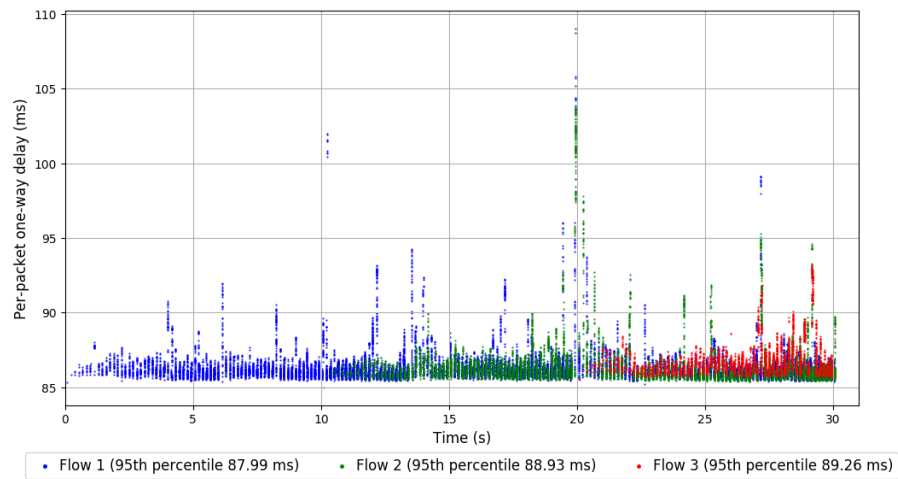
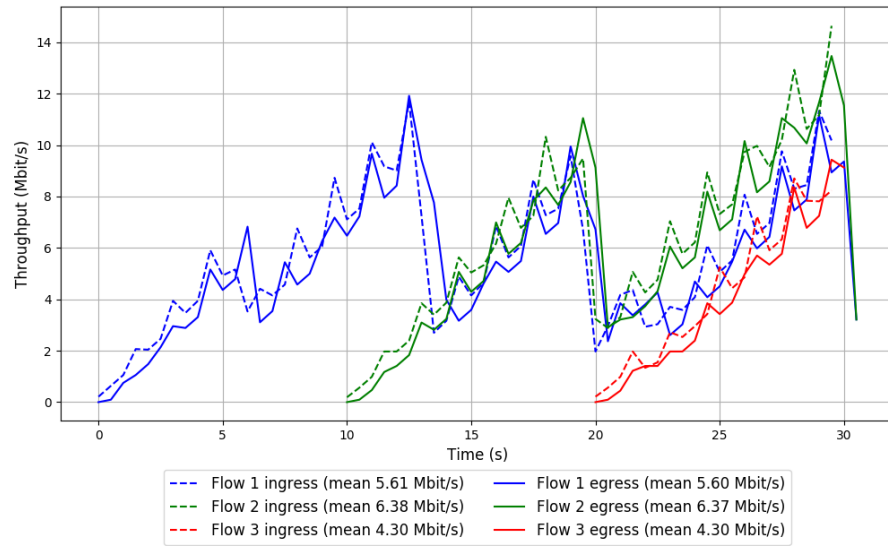
-- Flow 3:

Average throughput: 4.30 Mbit/s

95th percentile per-packet one-way delay: 89.258 ms

Loss rate: 0.08%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-07-17 18:52:04

End at: 2018-07-17 18:52:34

Local clock offset: 2.774 ms

Remote clock offset: 1.358 ms

Below is generated by plot.py at 2018-07-17 22:05:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.47 Mbit/s

95th percentile per-packet one-way delay: 88.226 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 6.44 Mbit/s

95th percentile per-packet one-way delay: 88.149 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 8.64 Mbit/s

95th percentile per-packet one-way delay: 88.340 ms

Loss rate: 0.01%

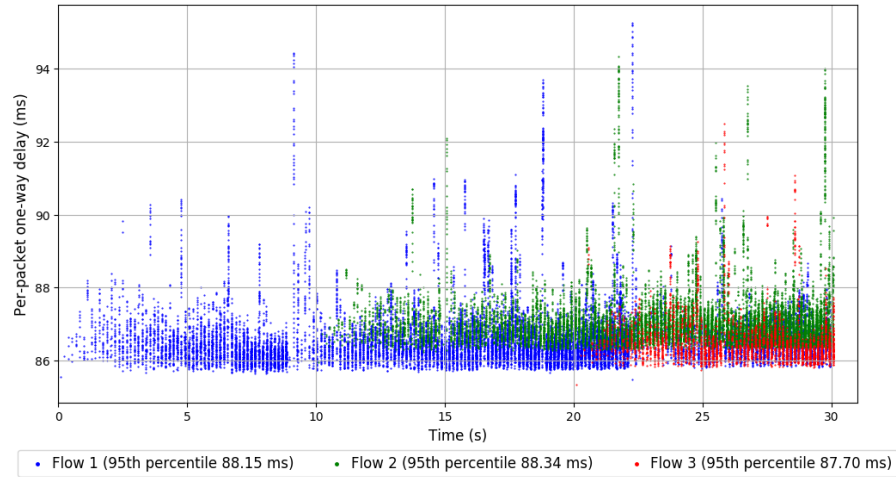
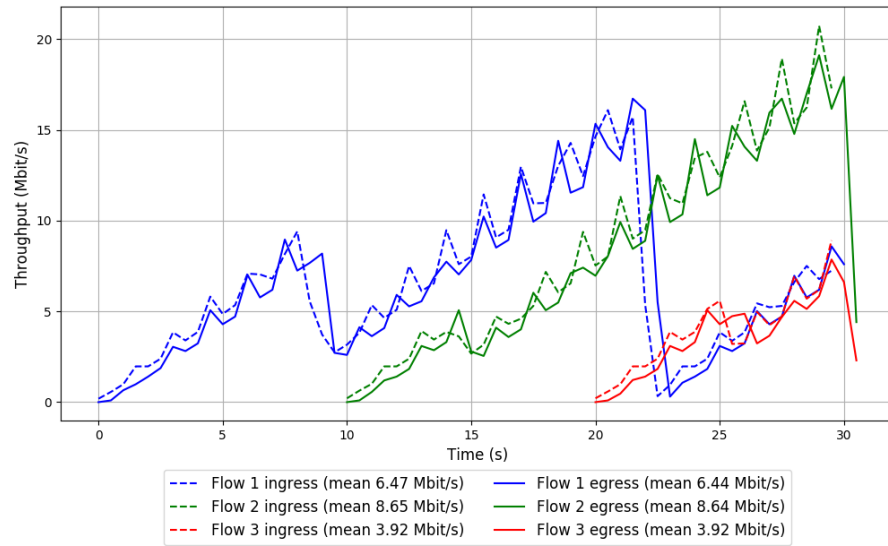
-- Flow 3:

Average throughput: 3.92 Mbit/s

95th percentile per-packet one-way delay: 87.702 ms

Loss rate: 0.03%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-07-17 19:23:16

End at: 2018-07-17 19:23:46

Local clock offset: 5.807 ms

Remote clock offset: 1.303 ms

Below is generated by plot.py at 2018-07-17 22:05:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 11.93 Mbit/s

95th percentile per-packet one-way delay: 100.941 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 7.65 Mbit/s

95th percentile per-packet one-way delay: 88.510 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 4.30 Mbit/s

95th percentile per-packet one-way delay: 89.097 ms

Loss rate: 0.26%

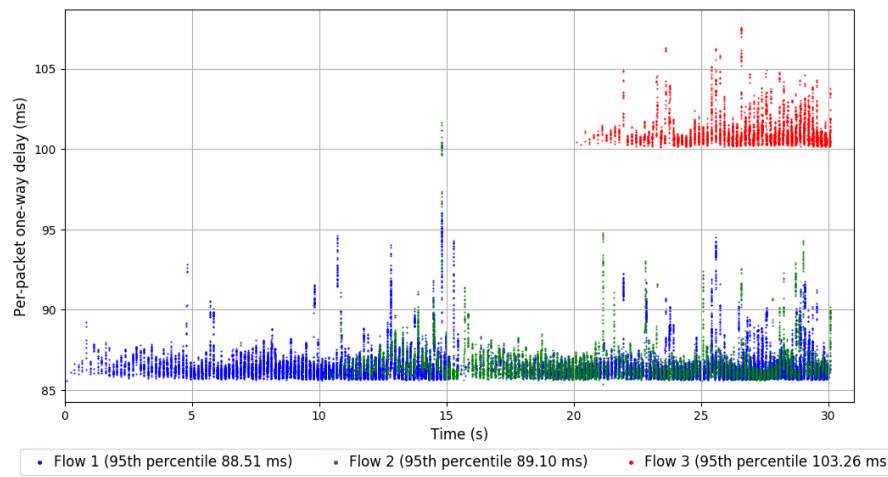
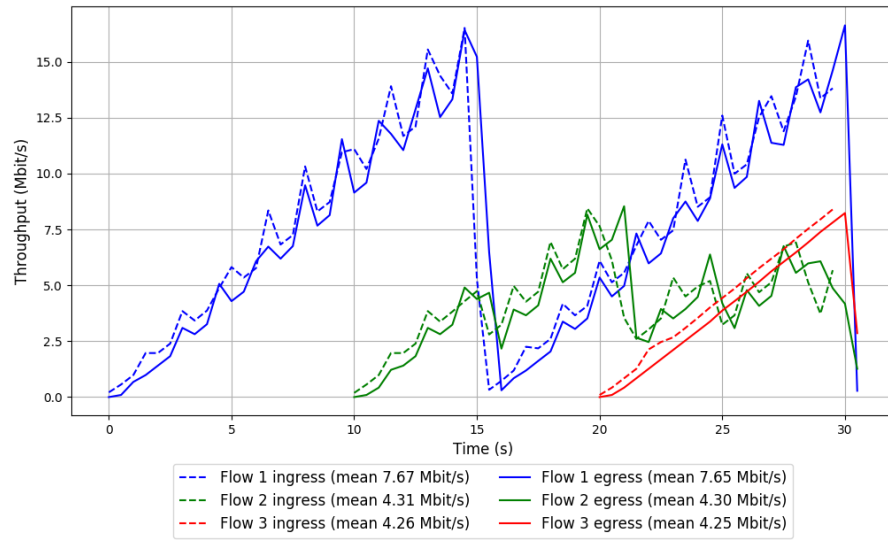
-- Flow 3:

Average throughput: 4.25 Mbit/s

95th percentile per-packet one-way delay: 103.264 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-07-17 19:57:17

End at: 2018-07-17 19:57:47

Local clock offset: 4.4 ms

Remote clock offset: 1.183 ms

Below is generated by plot.py at 2018-07-17 22:05:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.93 Mbit/s

95th percentile per-packet one-way delay: 102.588 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 5.83 Mbit/s

95th percentile per-packet one-way delay: 103.598 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 5.59 Mbit/s

95th percentile per-packet one-way delay: 90.495 ms

Loss rate: 0.25%

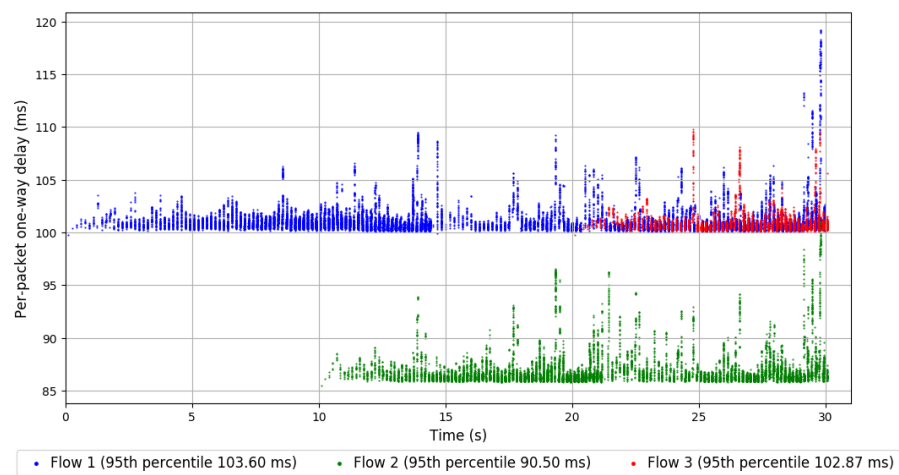
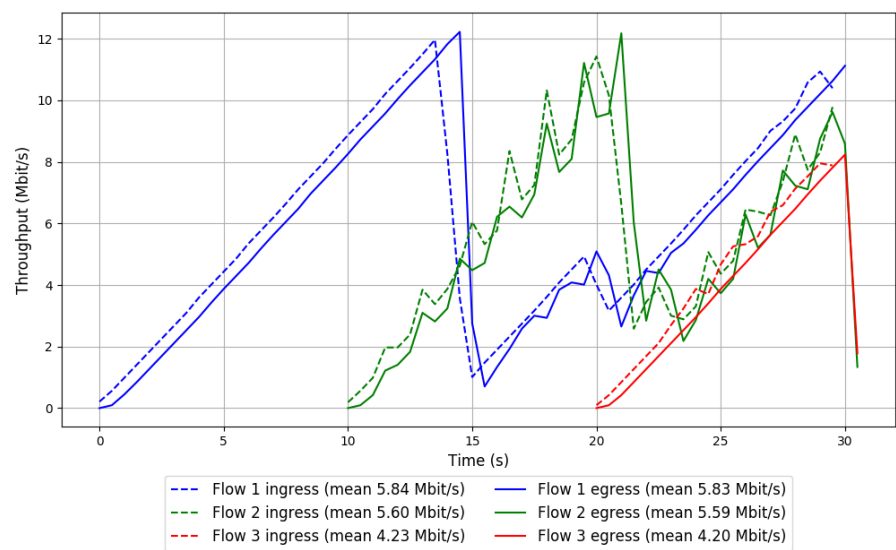
-- Flow 3:

Average throughput: 4.20 Mbit/s

95th percentile per-packet one-way delay: 102.867 ms

Loss rate: 0.67%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-07-17 20:32:08

End at: 2018-07-17 20:32:38

Local clock offset: 5.904 ms

Remote clock offset: 1.046 ms

Below is generated by plot.py at 2018-07-17 22:05:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 11.70 Mbit/s

95th percentile per-packet one-way delay: 103.080 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 6.47 Mbit/s

95th percentile per-packet one-way delay: 103.521 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 5.33 Mbit/s

95th percentile per-packet one-way delay: 103.234 ms

Loss rate: 0.15%

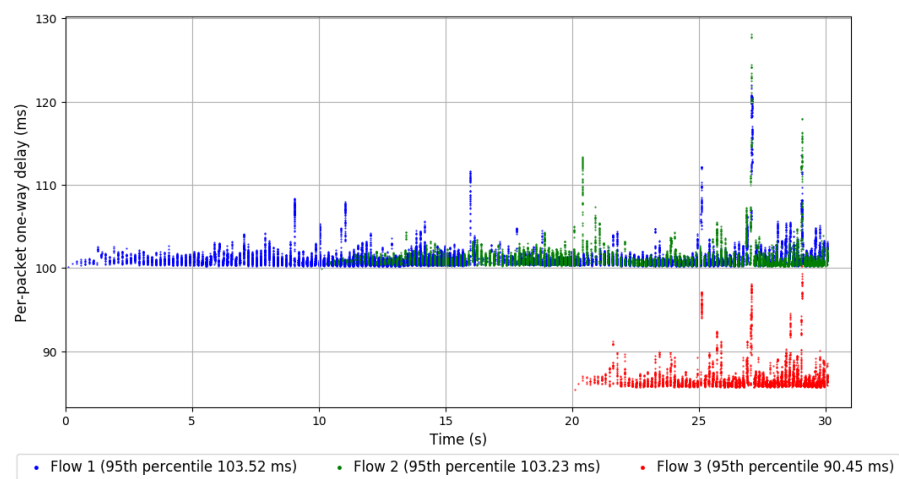
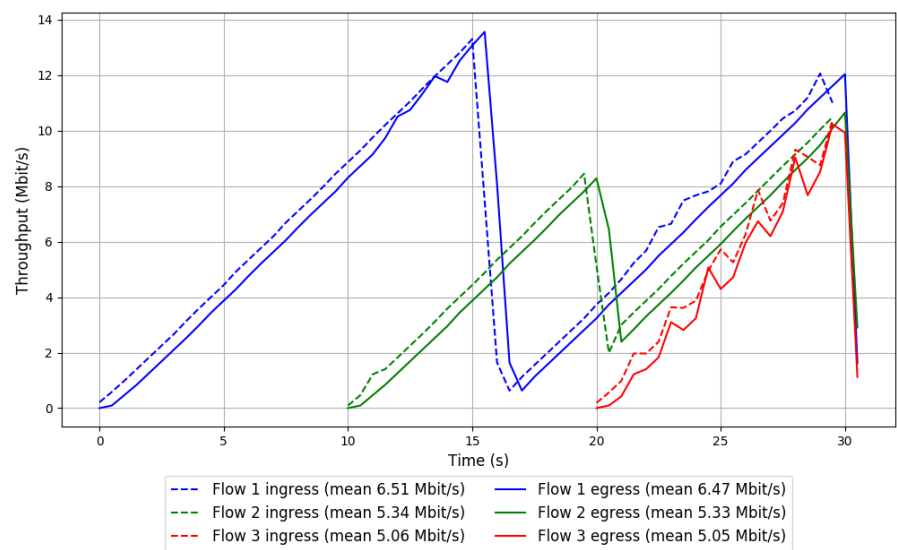
-- Flow 3:

Average throughput: 5.05 Mbit/s

95th percentile per-packet one-way delay: 90.454 ms

Loss rate: 0.23%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-07-17 21:05:17

End at: 2018-07-17 21:05:47

Local clock offset: 6.886 ms

Remote clock offset: 0.967 ms

Below is generated by plot.py at 2018-07-17 22:05:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.75 Mbit/s

95th percentile per-packet one-way delay: 101.735 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 4.92 Mbit/s

95th percentile per-packet one-way delay: 89.800 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 6.88 Mbit/s

95th percentile per-packet one-way delay: 103.480 ms

Loss rate: 0.15%

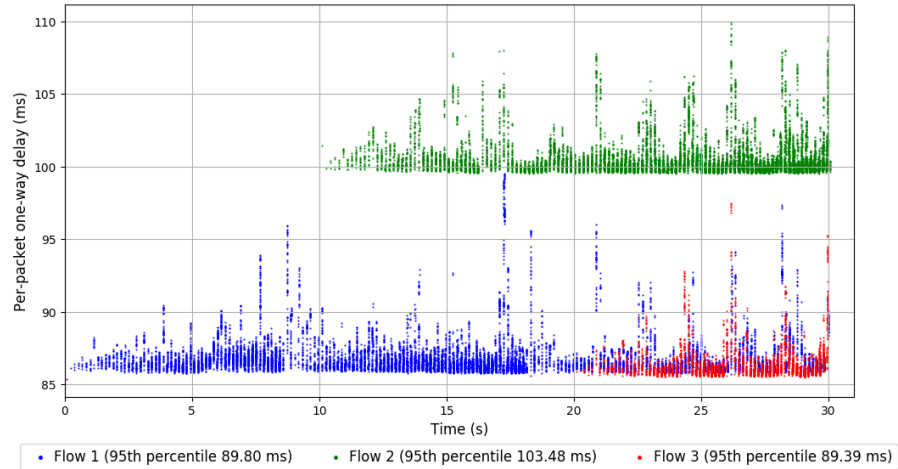
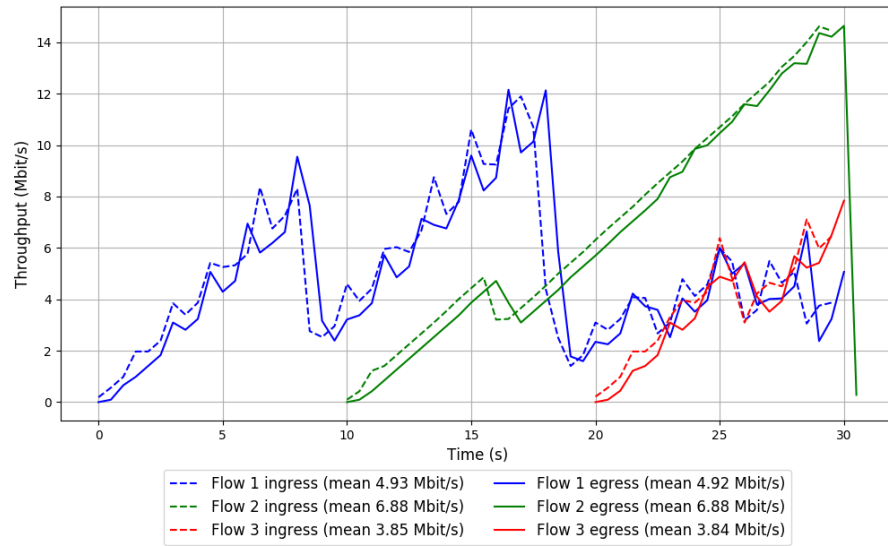
-- Flow 3:

Average throughput: 3.84 Mbit/s

95th percentile per-packet one-way delay: 89.393 ms

Loss rate: 0.03%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-07-17 21:34:53

End at: 2018-07-17 21:35:23

Local clock offset: 5.129 ms

Remote clock offset: 1.062 ms

Below is generated by plot.py at 2018-07-17 22:05:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 14.08 Mbit/s

95th percentile per-packet one-way delay: 102.596 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 6.63 Mbit/s

95th percentile per-packet one-way delay: 102.538 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 8.70 Mbit/s

95th percentile per-packet one-way delay: 103.263 ms

Loss rate: 0.18%

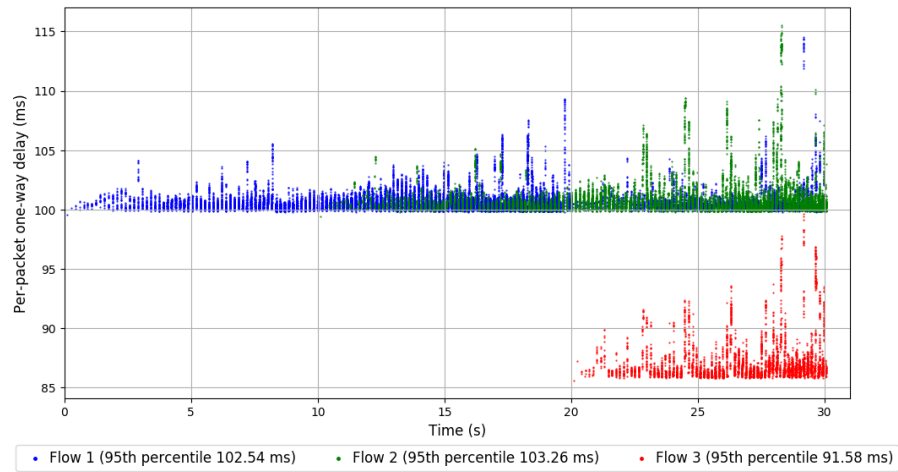
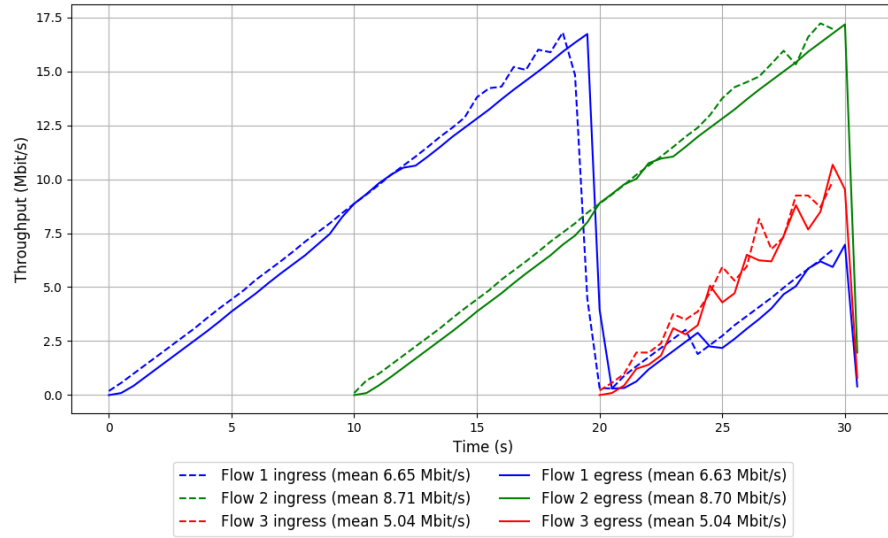
-- Flow 3:

Average throughput: 5.04 Mbit/s

95th percentile per-packet one-way delay: 91.583 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-07-17 17:06:34

End at: 2018-07-17 17:07:04

Local clock offset: 6.683 ms

Remote clock offset: 0.999 ms

Below is generated by plot.py at 2018-07-17 22:06:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 69.63 Mbit/s

95th percentile per-packet one-way delay: 114.486 ms

Loss rate: 20.53%

-- Flow 1:

Average throughput: 54.13 Mbit/s

95th percentile per-packet one-way delay: 114.558 ms

Loss rate: 23.81%

-- Flow 2:

Average throughput: 16.23 Mbit/s

95th percentile per-packet one-way delay: 95.767 ms

Loss rate: 5.20%

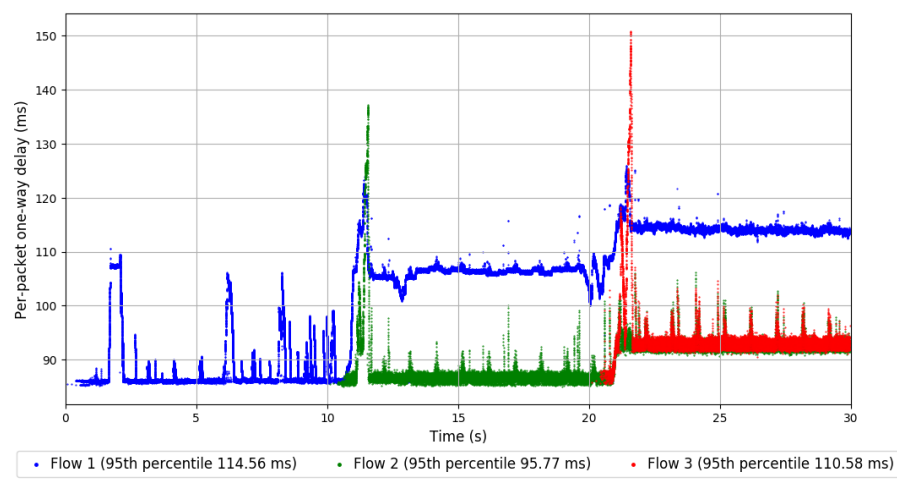
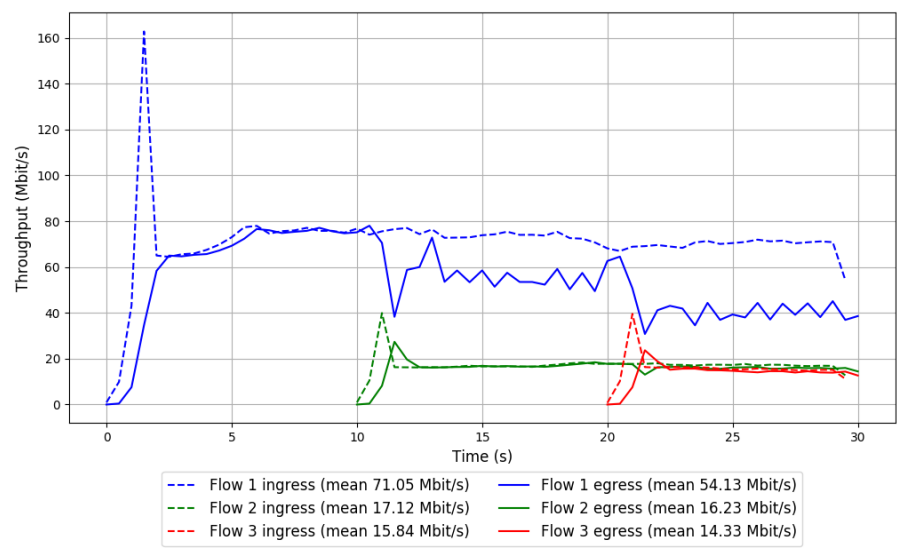
-- Flow 3:

Average throughput: 14.33 Mbit/s

95th percentile per-packet one-way delay: 110.576 ms

Loss rate: 9.43%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-07-17 17:42:58

End at: 2018-07-17 17:43:28

Local clock offset: 5.542 ms

Remote clock offset: 1.3 ms

Below is generated by plot.py at 2018-07-17 22:06:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 70.61 Mbit/s

95th percentile per-packet one-way delay: 126.763 ms

Loss rate: 14.98%

-- Flow 1:

Average throughput: 46.94 Mbit/s

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

Loss rate: 18.81%

-- Flow 2:

Average throughput: 28.02 Mbit/s

95th percentile per-packet one-way delay: 146.523 ms

Loss rate: 6.28%

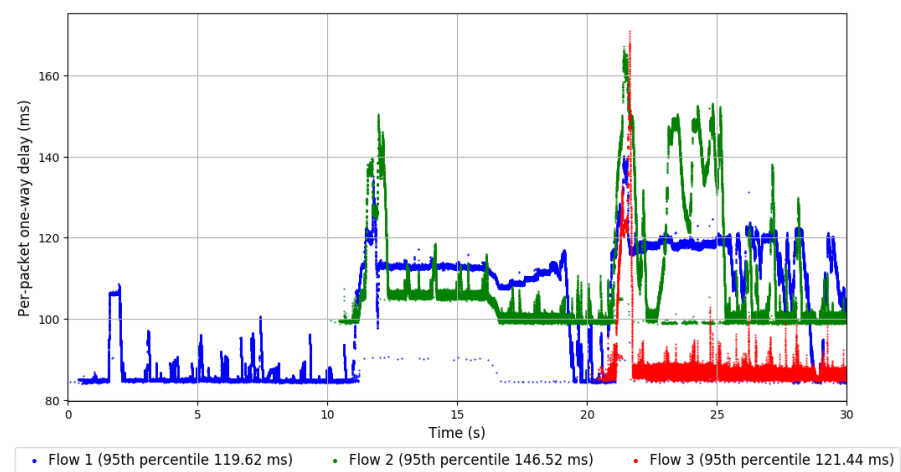
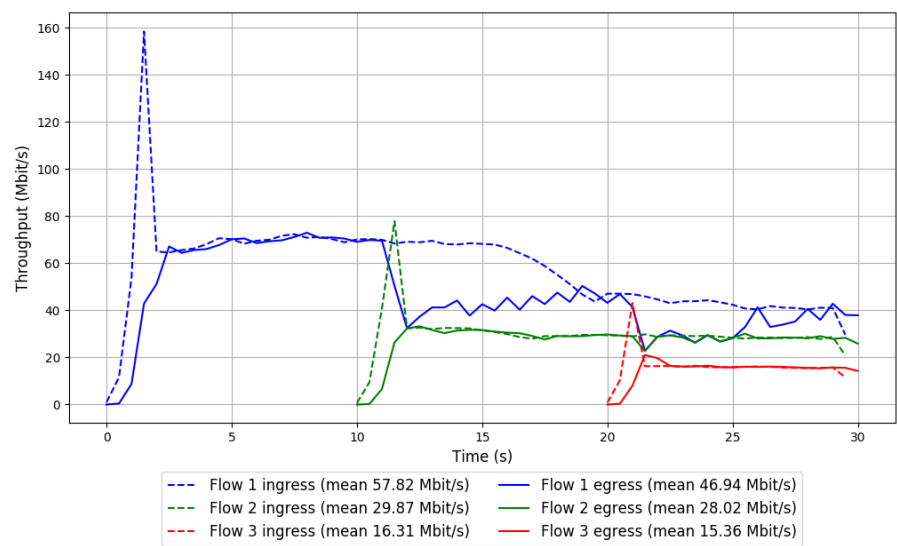
-- Flow 3:

Average throughput: 15.36 Mbit/s

95th percentile per-packet one-way delay: 121.438 ms

Loss rate: 5.81%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-07-17 18:13:13

End at: 2018-07-17 18:13:43

Local clock offset: -4.359 ms

Remote clock offset: 1.326 ms

Below is generated by plot.py at 2018-07-17 22:06:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.98 Mbit/s

95th percentile per-packet one-way delay: 148.078 ms

Loss rate: 22.88%

-- Flow 1:

Average throughput: 44.04 Mbit/s

95th percentile per-packet one-way delay: 118.228 ms

Loss rate: 28.69%

-- Flow 2:

Average throughput: 30.71 Mbit/s

95th percentile per-packet one-way delay: 150.141 ms

Loss rate: 9.04%

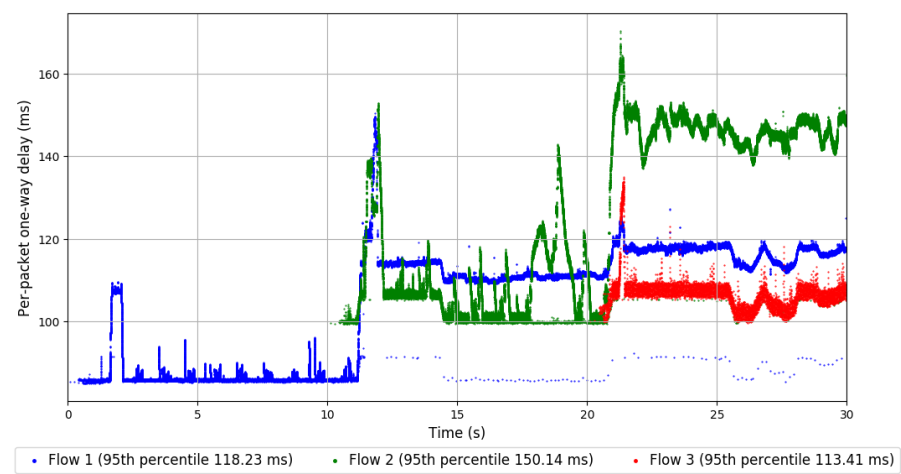
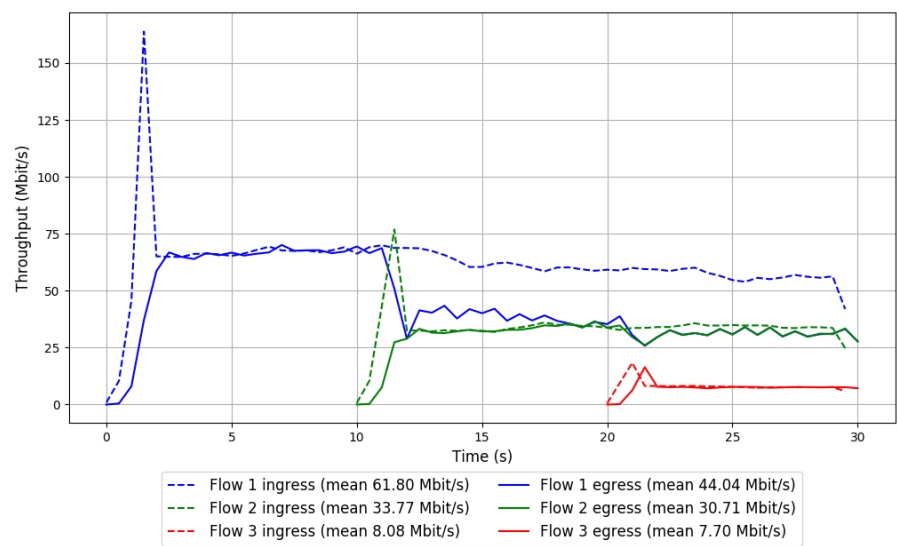
-- Flow 3:

Average throughput: 7.70 Mbit/s

95th percentile per-packet one-way delay: 113.409 ms

Loss rate: 4.84%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-07-17 18:43:19

End at: 2018-07-17 18:43:49

Local clock offset: -3.728 ms

Remote clock offset: 1.388 ms

Below is generated by plot.py at 2018-07-17 22:06:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 70.57 Mbit/s

95th percentile per-packet one-way delay: 129.183 ms

Loss rate: 16.52%

-- Flow 1:

Average throughput: 55.07 Mbit/s

95th percentile per-packet one-way delay: 129.267 ms

Loss rate: 19.56%

-- Flow 2:

Average throughput: 15.73 Mbit/s

95th percentile per-packet one-way delay: 95.522 ms

Loss rate: 2.89%

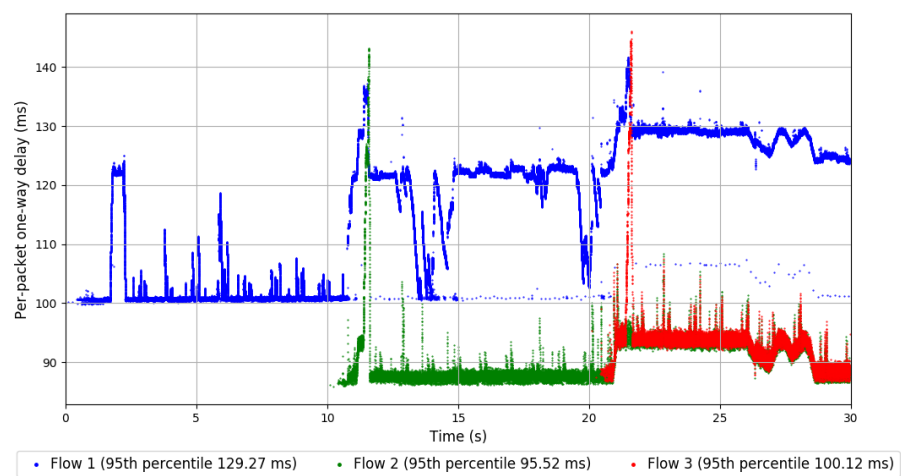
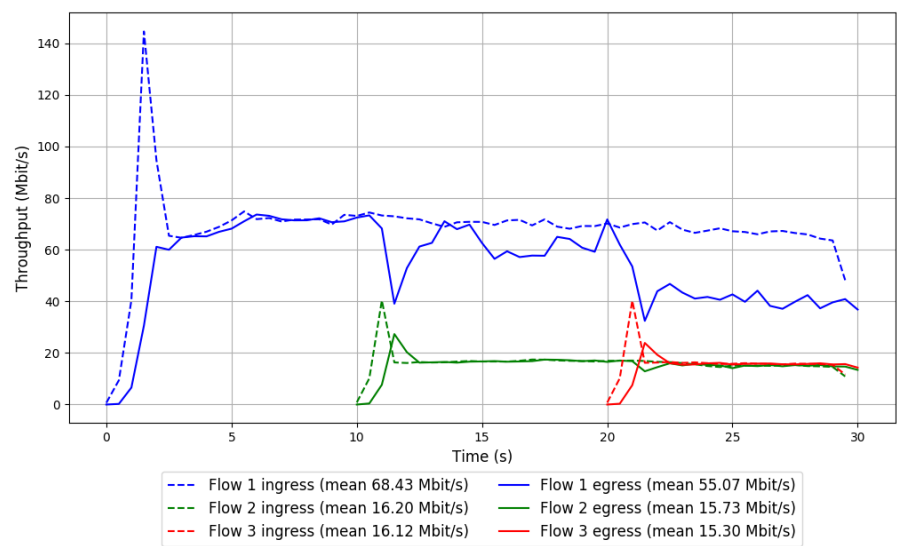
-- Flow 3:

Average throughput: 15.30 Mbit/s

95th percentile per-packet one-way delay: 100.118 ms

Loss rate: 5.08%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-07-17 19:13:58

End at: 2018-07-17 19:14:28

Local clock offset: 7.132 ms

Remote clock offset: 1.386 ms

Below is generated by plot.py at 2018-07-17 22:06:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.68 Mbit/s

95th percentile per-packet one-way delay: 108.806 ms

Loss rate: 20.43%

-- Flow 1:

Average throughput: 54.74 Mbit/s

95th percentile per-packet one-way delay: 109.028 ms

Loss rate: 23.90%

-- Flow 2:

Average throughput: 17.40 Mbit/s

95th percentile per-packet one-way delay: 92.415 ms

Loss rate: 1.42%

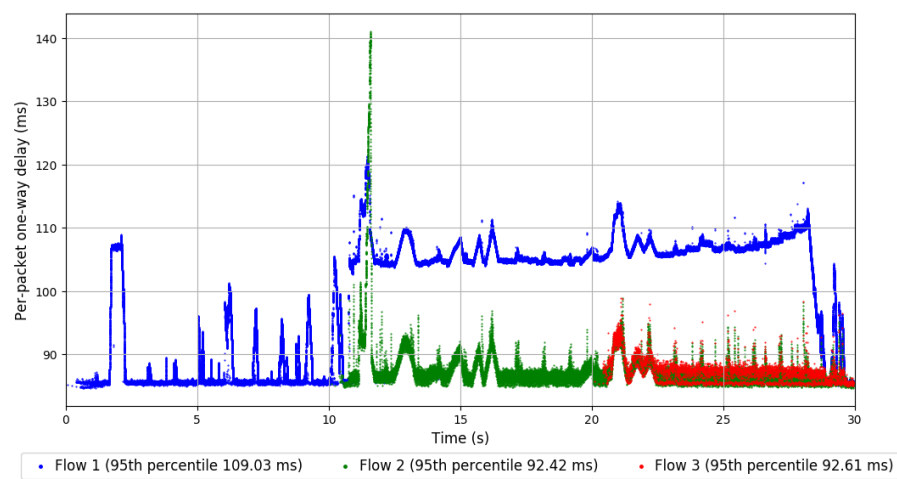
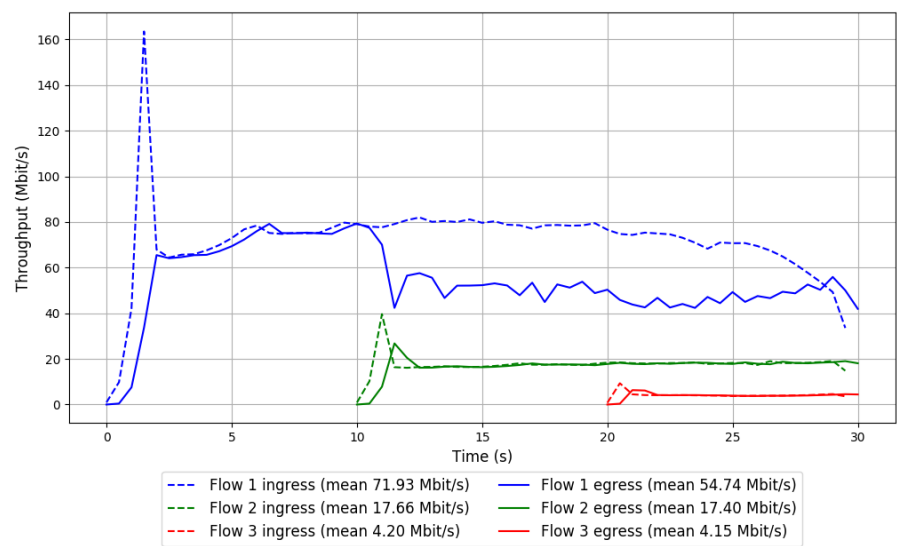
-- Flow 3:

Average throughput: 4.15 Mbit/s

95th percentile per-packet one-way delay: 92.608 ms

Loss rate: 1.20%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-07-17 19:46:50

End at: 2018-07-17 19:47:20

Local clock offset: 4.831 ms

Remote clock offset: 1.131 ms

Below is generated by plot.py at 2018-07-17 22:06:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.18 Mbit/s

95th percentile per-packet one-way delay: 129.948 ms

Loss rate: 22.49%

-- Flow 1:

Average throughput: 45.65 Mbit/s

95th percentile per-packet one-way delay: 130.059 ms

Loss rate: 28.63%

-- Flow 2:

Average throughput: 30.30 Mbit/s

95th percentile per-packet one-way delay: 123.254 ms

Loss rate: 5.39%

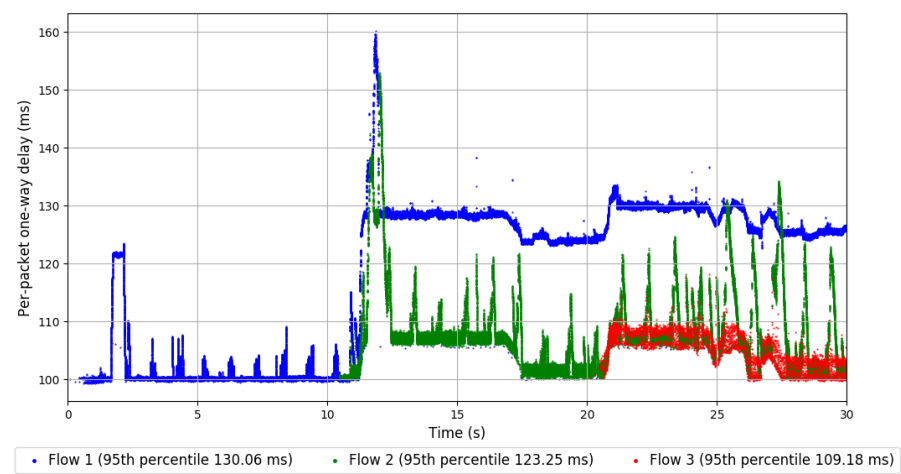
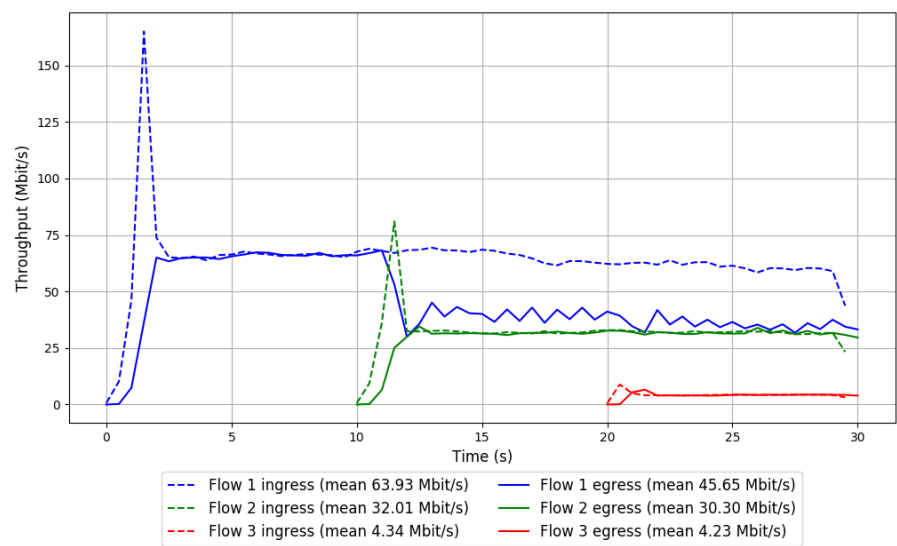
-- Flow 3:

Average throughput: 4.23 Mbit/s

95th percentile per-packet one-way delay: 109.182 ms

Loss rate: 2.54%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-07-17 20:21:25

End at: 2018-07-17 20:21:55

Local clock offset: 5.369 ms

Remote clock offset: 1.164 ms

Below is generated by plot.py at 2018-07-17 22:06:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.98 Mbit/s

95th percentile per-packet one-way delay: 109.097 ms

Loss rate: 17.02%

-- Flow 1:

Average throughput: 54.90 Mbit/s

95th percentile per-packet one-way delay: 109.345 ms

Loss rate: 20.18%

-- Flow 2:

Average throughput: 16.97 Mbit/s

95th percentile per-packet one-way delay: 92.786 ms

Loss rate: 1.88%

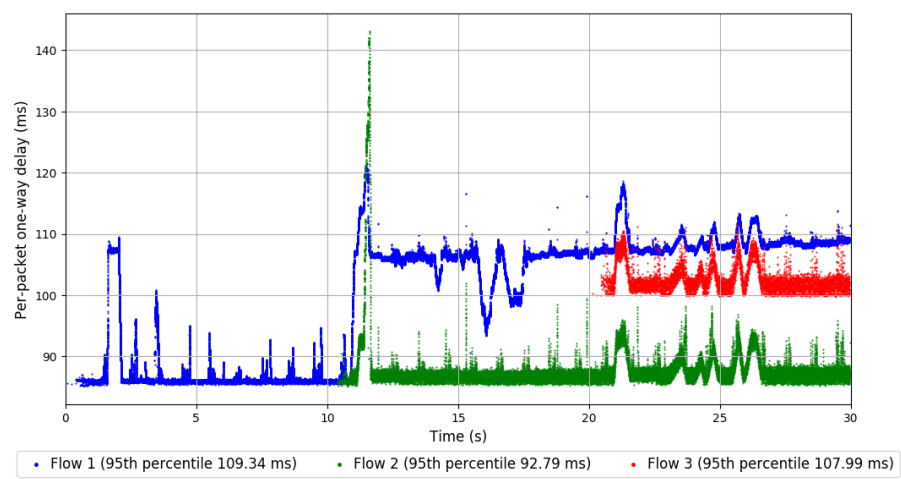
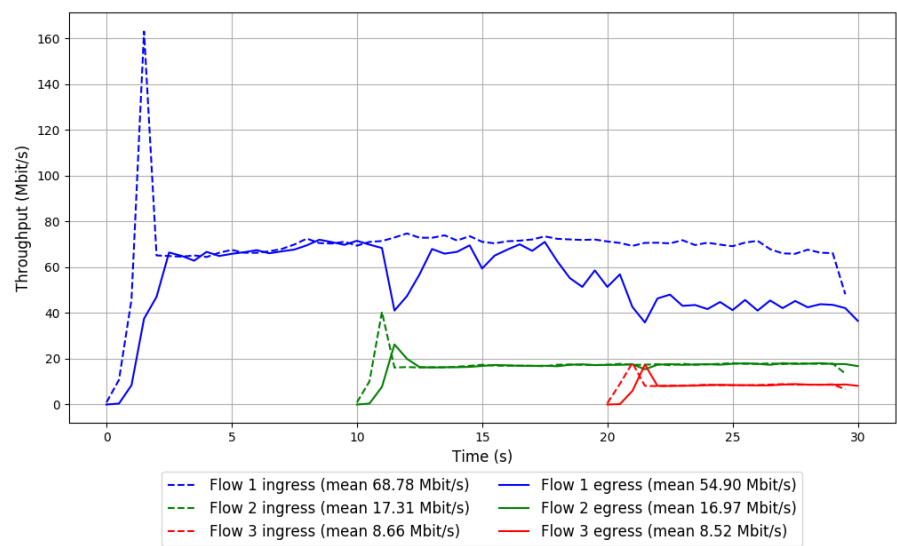
-- Flow 3:

Average throughput: 8.52 Mbit/s

95th percentile per-packet one-way delay: 107.991 ms

Loss rate: 1.74%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-07-17 20:56:28

End at: 2018-07-17 20:56:58

Local clock offset: 6.587 ms

Remote clock offset: 0.967 ms

Below is generated by plot.py at 2018-07-17 22:06:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.16 Mbit/s

95th percentile per-packet one-way delay: 130.389 ms

Loss rate: 22.79%

-- Flow 1:

Average throughput: 45.36 Mbit/s

95th percentile per-packet one-way delay: 130.488 ms

Loss rate: 28.99%

-- Flow 2:

Average throughput: 30.79 Mbit/s

95th percentile per-packet one-way delay: 125.860 ms

Loss rate: 5.66%

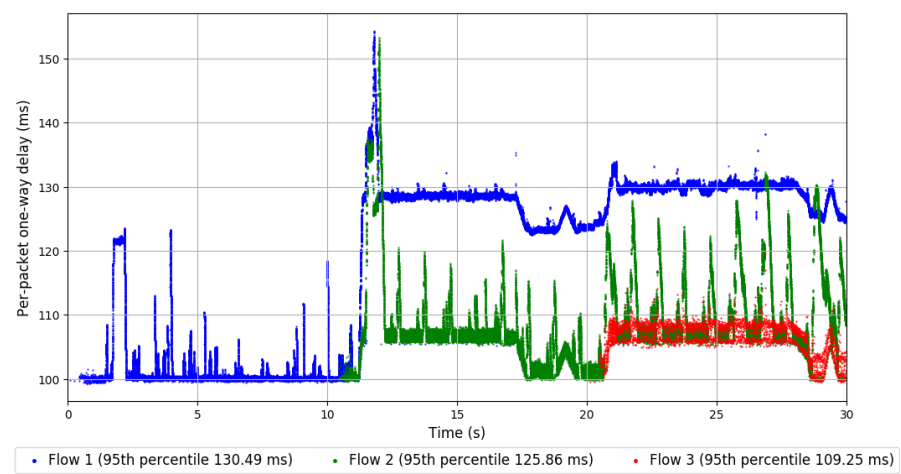
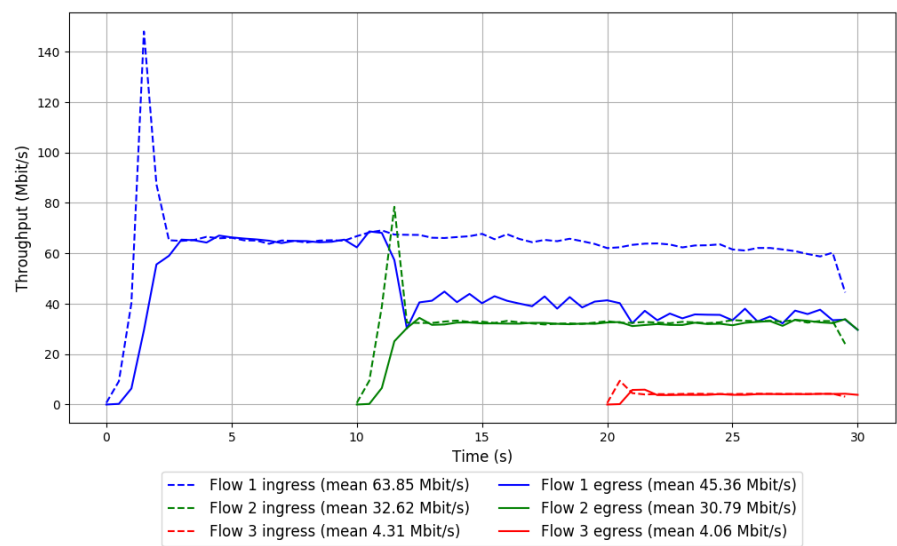
-- Flow 3:

Average throughput: 4.06 Mbit/s

95th percentile per-packet one-way delay: 109.250 ms

Loss rate: 5.92%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-07-17 21:25:59

End at: 2018-07-17 21:26:29

Local clock offset: 5.564 ms

Remote clock offset: 1.117 ms

Below is generated by plot.py at 2018-07-17 22:07:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.73 Mbit/s

95th percentile per-packet one-way delay: 125.921 ms

Loss rate: 24.15%

-- Flow 1:

Average throughput: 54.62 Mbit/s

95th percentile per-packet one-way delay: 125.974 ms

Loss rate: 27.86%

-- Flow 2:

Average throughput: 15.68 Mbit/s

95th percentile per-packet one-way delay: 95.312 ms

Loss rate: 3.38%

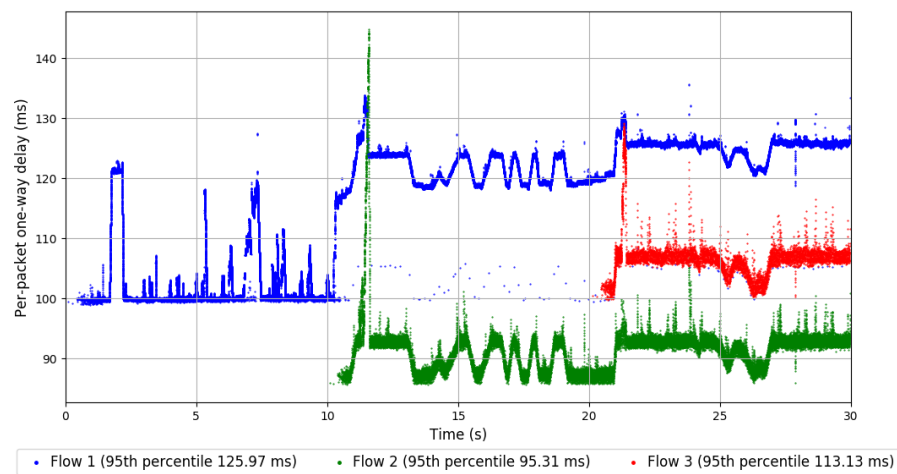
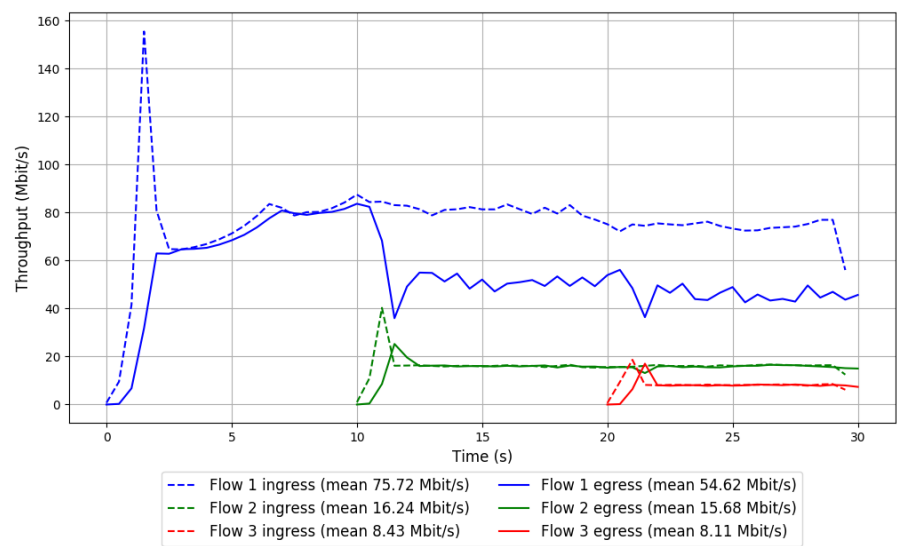
-- Flow 3:

Average throughput: 8.11 Mbit/s

95th percentile per-packet one-way delay: 113.127 ms

Loss rate: 3.85%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-07-17 21:56:27

End at: 2018-07-17 21:56:57

Local clock offset: 2.4 ms

Remote clock offset: 0.925 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 70.48 Mbit/s

95th percentile per-packet one-way delay: 114.862 ms

Loss rate: 16.17%

-- Flow 1:

Average throughput: 54.04 Mbit/s

95th percentile per-packet one-way delay: 114.954 ms

Loss rate: 19.19%

-- Flow 2:

Average throughput: 16.93 Mbit/s

95th percentile per-packet one-way delay: 108.176 ms

Loss rate: 3.34%

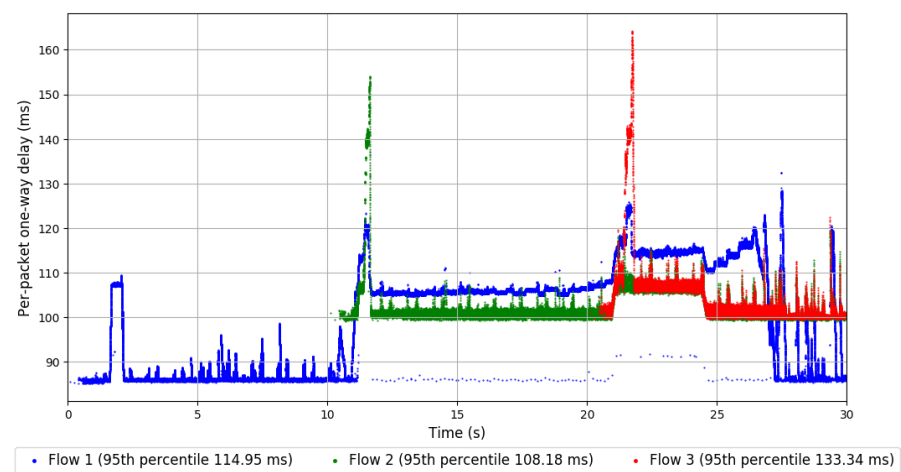
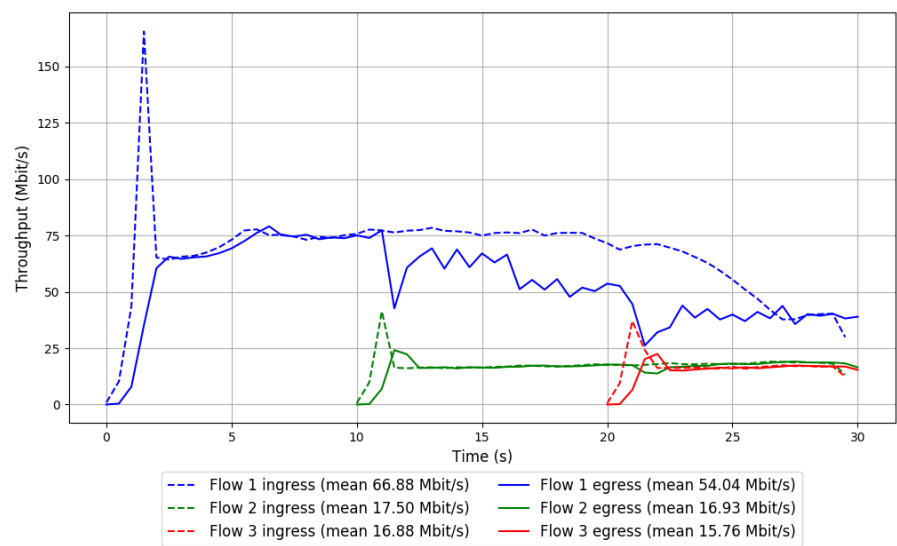
-- Flow 3:

Average throughput: 15.76 Mbit/s

95th percentile per-packet one-way delay: 133.337 ms

Loss rate: 6.73%

Run 10: Report of PCC-Allegro — Data Link

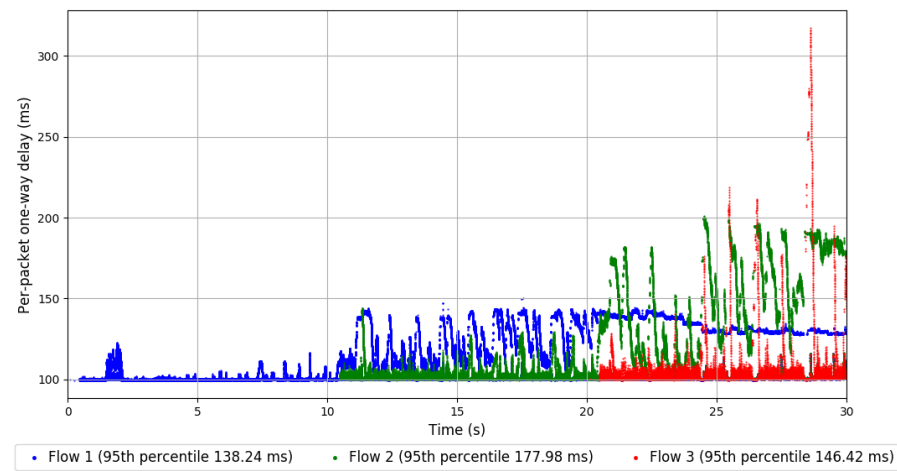
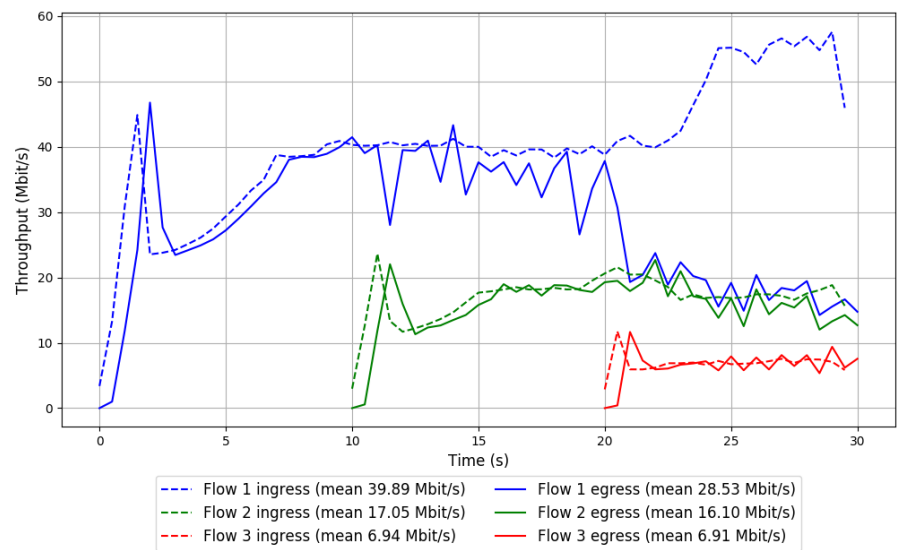


```
Run 1: Statistics of PCC-Expr

Start at: 2018-07-17 16:55:52
End at: 2018-07-17 16:56:22
Local clock offset: 6.006 ms
Remote clock offset: 0.885 ms

# Below is generated by plot.py at 2018-07-17 22:07:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 41.52 Mbit/s
95th percentile per-packet one-way delay: 140.290 ms
Loss rate: 22.45%
-- Flow 1:
Average throughput: 28.53 Mbit/s
95th percentile per-packet one-way delay: 138.237 ms
Loss rate: 28.50%
-- Flow 2:
Average throughput: 16.10 Mbit/s
95th percentile per-packet one-way delay: 177.978 ms
Loss rate: 5.61%
-- Flow 3:
Average throughput: 6.91 Mbit/s
95th percentile per-packet one-way delay: 146.424 ms
Loss rate: 0.60%
```

Run 1: Report of PCC-Expr — Data Link

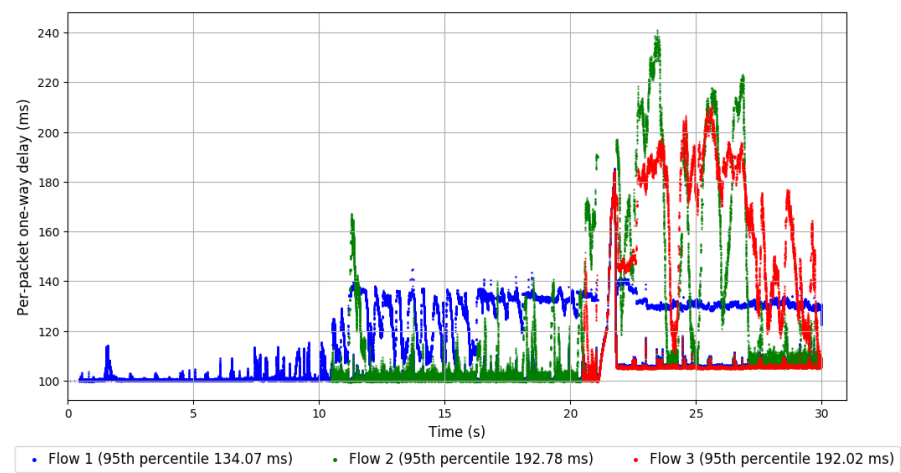
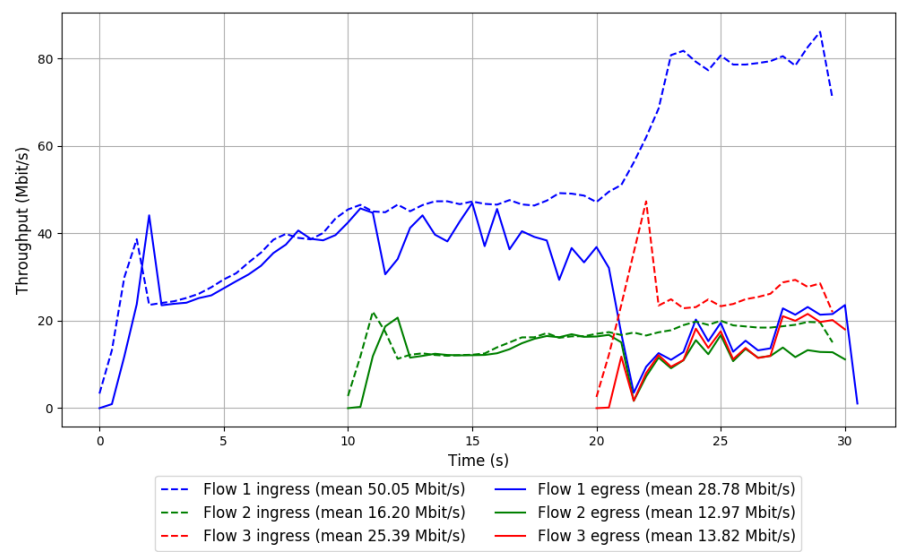


```
Run 2: Statistics of PCC-Expr

Start at: 2018-07-17 17:33:17
End at: 2018-07-17 17:33:47
Local clock offset: 7.104 ms
Remote clock offset: 1.129 ms

# Below is generated by plot.py at 2018-07-17 22:08:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 41.97 Mbit/s
95th percentile per-packet one-way delay: 157.352 ms
Loss rate: 39.31%
-- Flow 1:
Average throughput: 28.78 Mbit/s
95th percentile per-packet one-way delay: 134.071 ms
Loss rate: 42.45%
-- Flow 2:
Average throughput: 12.97 Mbit/s
95th percentile per-packet one-way delay: 192.784 ms
Loss rate: 19.88%
-- Flow 3:
Average throughput: 13.82 Mbit/s
95th percentile per-packet one-way delay: 192.023 ms
Loss rate: 45.53%
```

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-07-17 18:03:20

End at: 2018-07-17 18:03:50

Local clock offset: -2.73 ms

Remote clock offset: 1.227 ms

Below is generated by plot.py at 2018-07-17 22:08:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 43.06 Mbit/s

95th percentile per-packet one-way delay: 130.525 ms

Loss rate: 24.72%

-- Flow 1:

Average throughput: 29.90 Mbit/s

95th percentile per-packet one-way delay: 127.648 ms

Loss rate: 29.05%

-- Flow 2:

Average throughput: 15.35 Mbit/s

95th percentile per-packet one-way delay: 173.000 ms

Loss rate: 11.31%

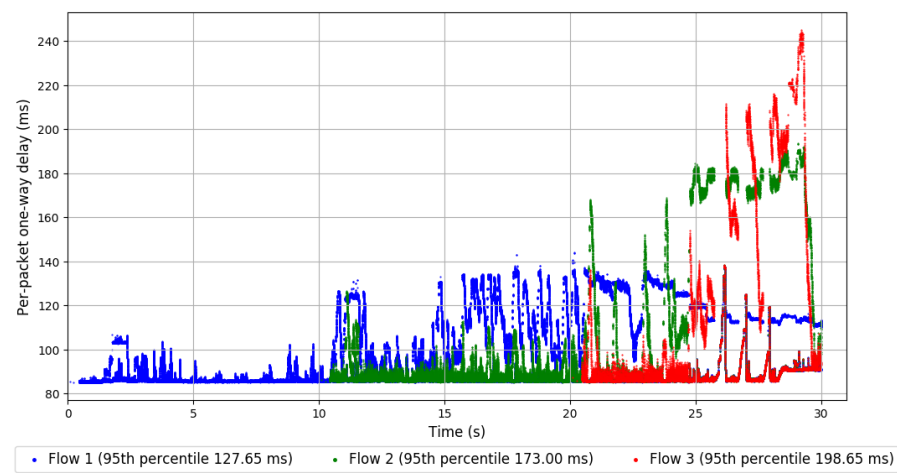
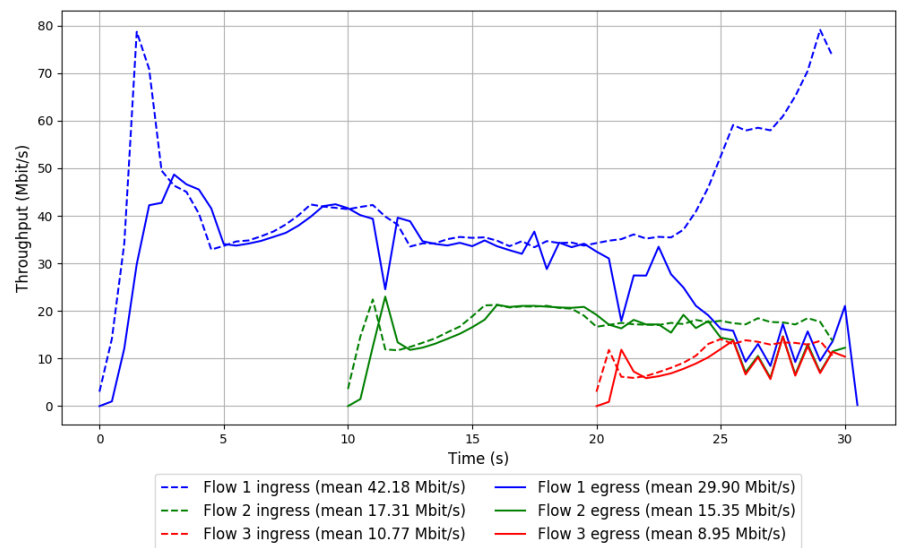
-- Flow 3:

Average throughput: 8.95 Mbit/s

95th percentile per-packet one-way delay: 198.651 ms

Loss rate: 16.80%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-07-17 18:33:23

End at: 2018-07-17 18:33:53

Local clock offset: -6.393 ms

Remote clock offset: 1.303 ms

Below is generated by plot.py at 2018-07-17 22:08:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 43.95 Mbit/s

95th percentile per-packet one-way delay: 136.006 ms

Loss rate: 3.09%

-- Flow 1:

Average throughput: 30.01 Mbit/s

95th percentile per-packet one-way delay: 140.402 ms

Loss rate: 4.13%

-- Flow 2:

Average throughput: 14.88 Mbit/s

95th percentile per-packet one-way delay: 108.727 ms

Loss rate: 0.06%

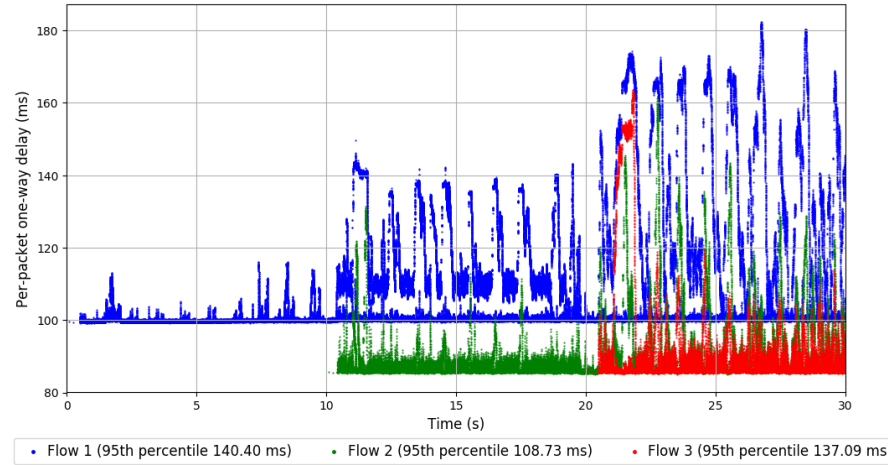
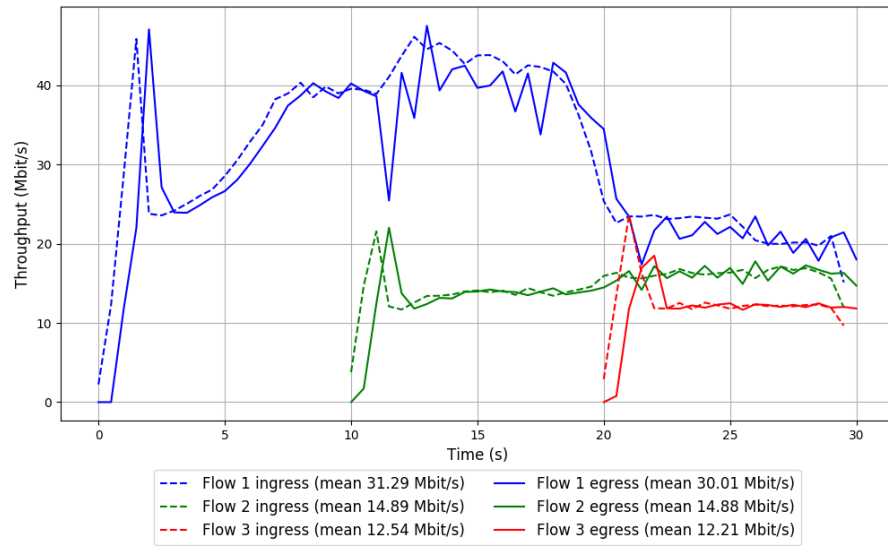
-- Flow 3:

Average throughput: 12.21 Mbit/s

95th percentile per-packet one-way delay: 137.088 ms

Loss rate: 2.57%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-07-17 19:03:49

End at: 2018-07-17 19:04:19

Local clock offset: 6.447 ms

Remote clock offset: 1.339 ms

Below is generated by plot.py at 2018-07-17 22:08:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 37.14 Mbit/s

95th percentile per-packet one-way delay: 145.075 ms

Loss rate: 46.21%

-- Flow 1:

Average throughput: 24.79 Mbit/s

95th percentile per-packet one-way delay: 142.798 ms

Loss rate: 52.71%

-- Flow 2:

Average throughput: 16.27 Mbit/s

95th percentile per-packet one-way delay: 187.316 ms

Loss rate: 25.42%

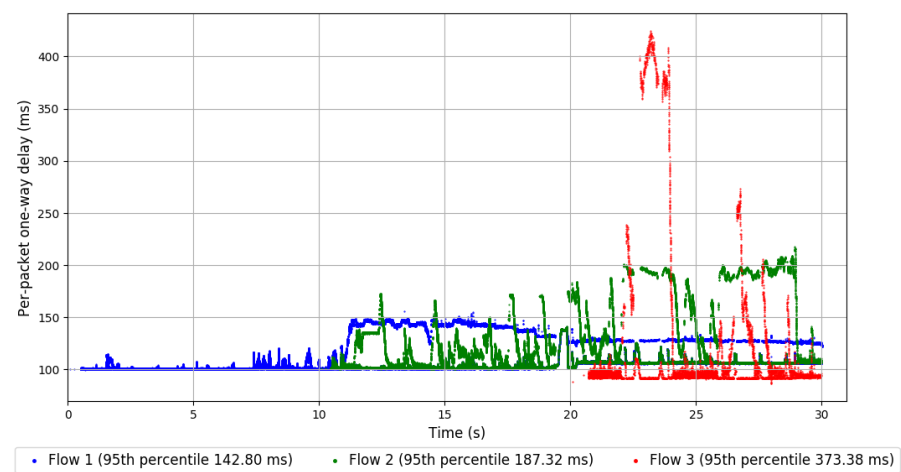
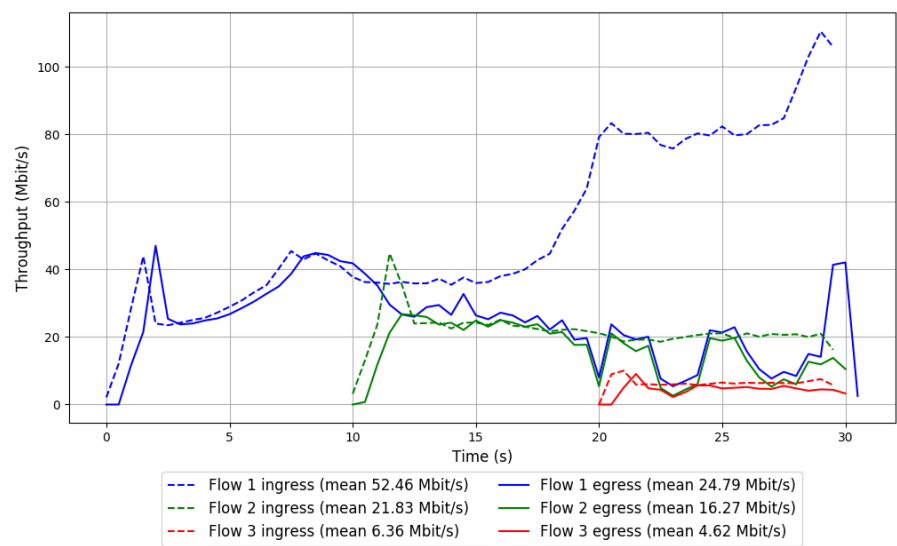
-- Flow 3:

Average throughput: 4.62 Mbit/s

95th percentile per-packet one-way delay: 373.377 ms

Loss rate: 27.43%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-07-17 19:35:15

End at: 2018-07-17 19:35:45

Local clock offset: 6.179 ms

Remote clock offset: 1.159 ms

Below is generated by plot.py at 2018-07-17 22:08:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.61 Mbit/s

95th percentile per-packet one-way delay: 160.786 ms

Loss rate: 4.17%

-- Flow 1:

Average throughput: 26.57 Mbit/s

95th percentile per-packet one-way delay: 163.554 ms

Loss rate: 5.03%

-- Flow 2:

Average throughput: 15.93 Mbit/s

95th percentile per-packet one-way delay: 152.818 ms

Loss rate: 2.37%

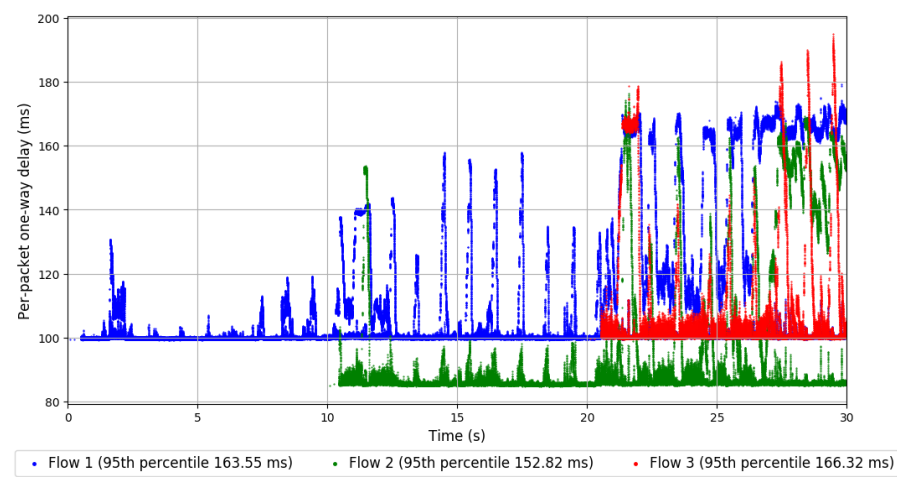
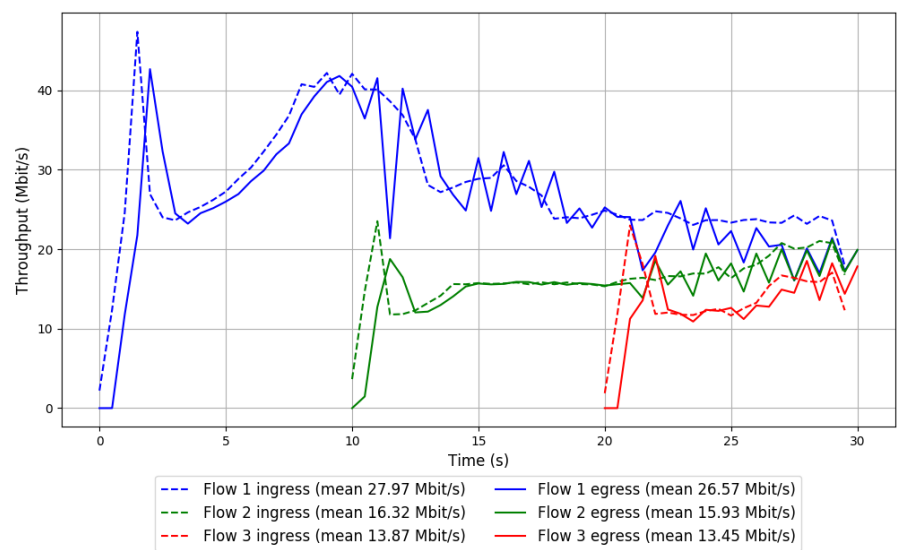
-- Flow 3:

Average throughput: 13.45 Mbit/s

95th percentile per-packet one-way delay: 166.324 ms

Loss rate: 3.18%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-07-17 20:09:04

End at: 2018-07-17 20:09:34

Local clock offset: 4.328 ms

Remote clock offset: 1.125 ms

Below is generated by plot.py at 2018-07-17 22:09:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 44.67 Mbit/s

95th percentile per-packet one-way delay: 131.023 ms

Loss rate: 39.20%

-- Flow 1:

Average throughput: 35.86 Mbit/s

95th percentile per-packet one-way delay: 131.037 ms

Loss rate: 42.56%

-- Flow 2:

Average throughput: 11.56 Mbit/s

95th percentile per-packet one-way delay: 124.201 ms

Loss rate: 17.24%

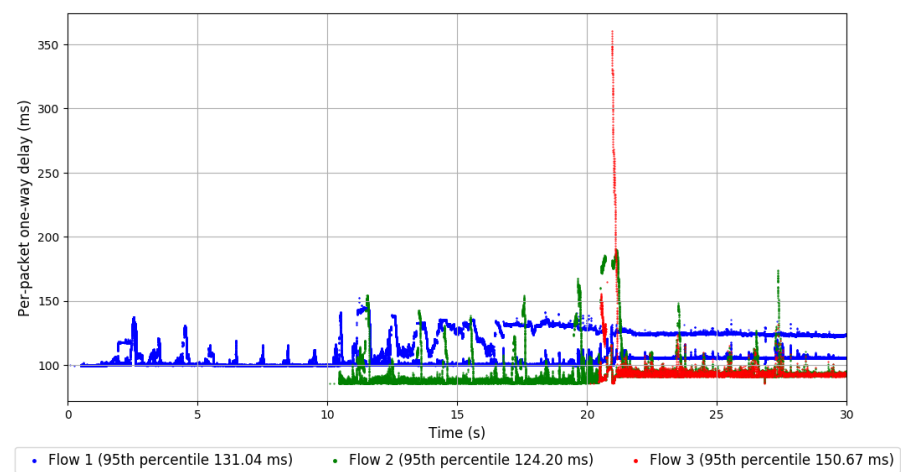
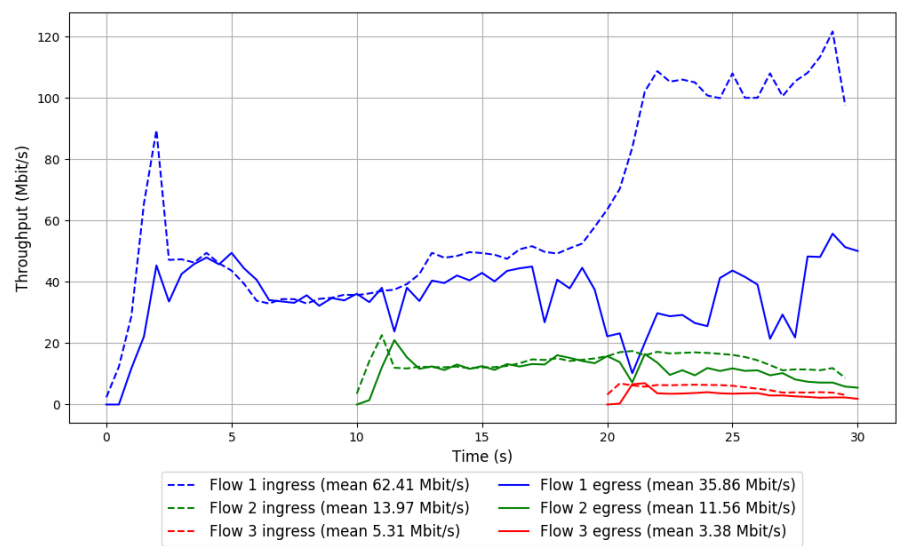
-- Flow 3:

Average throughput: 3.38 Mbit/s

95th percentile per-packet one-way delay: 150.668 ms

Loss rate: 36.29%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-07-17 20:44:44

End at: 2018-07-17 20:45:14

Local clock offset: 6.355 ms

Remote clock offset: 0.913 ms

Below is generated by plot.py at 2018-07-17 22:09:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 45.28 Mbit/s

95th percentile per-packet one-way delay: 143.225 ms

Loss rate: 29.47%

-- Flow 1:

Average throughput: 31.25 Mbit/s

95th percentile per-packet one-way delay: 139.825 ms

Loss rate: 34.97%

-- Flow 2:

Average throughput: 16.41 Mbit/s

95th percentile per-packet one-way delay: 177.293 ms

Loss rate: 12.89%

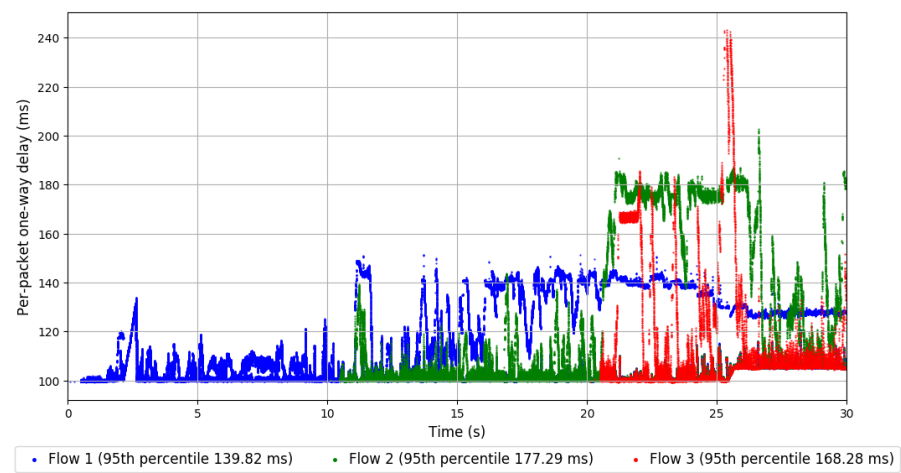
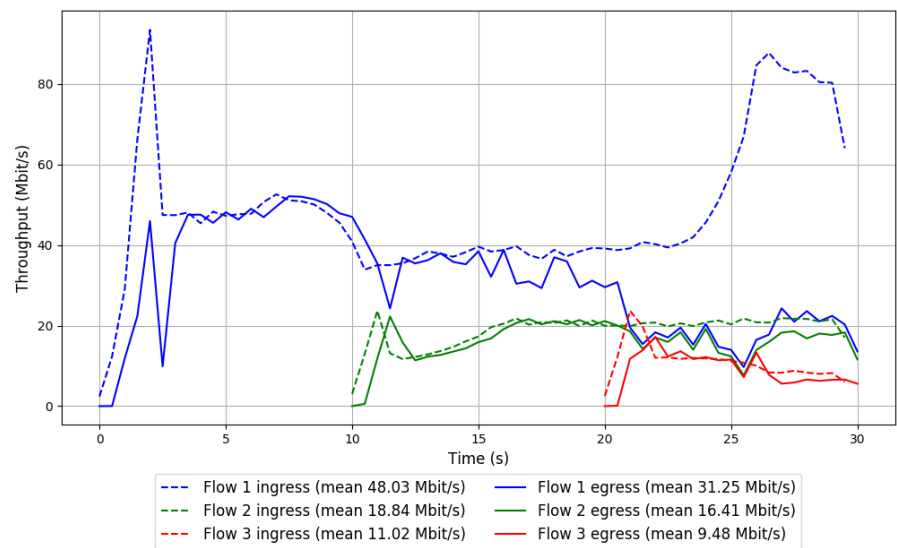
-- Flow 3:

Average throughput: 9.48 Mbit/s

95th percentile per-packet one-way delay: 168.278 ms

Loss rate: 14.06%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-07-17 21:16:41

End at: 2018-07-17 21:17:11

Local clock offset: 5.933 ms

Remote clock offset: 1.036 ms

Below is generated by plot.py at 2018-07-17 22:09:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 37.88 Mbit/s

95th percentile per-packet one-way delay: 152.850 ms

Loss rate: 44.49%

-- Flow 1:

Average throughput: 28.57 Mbit/s

95th percentile per-packet one-way delay: 142.350 ms

Loss rate: 49.22%

-- Flow 2:

Average throughput: 12.02 Mbit/s

95th percentile per-packet one-way delay: 171.461 ms

Loss rate: 19.01%

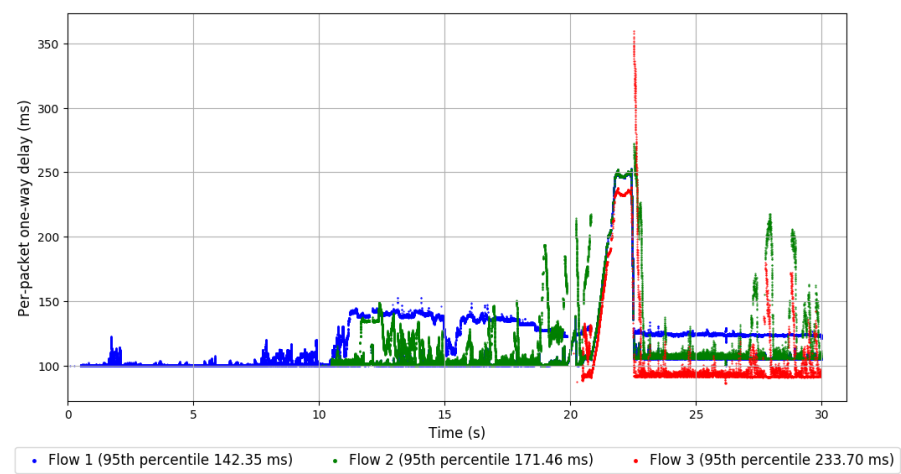
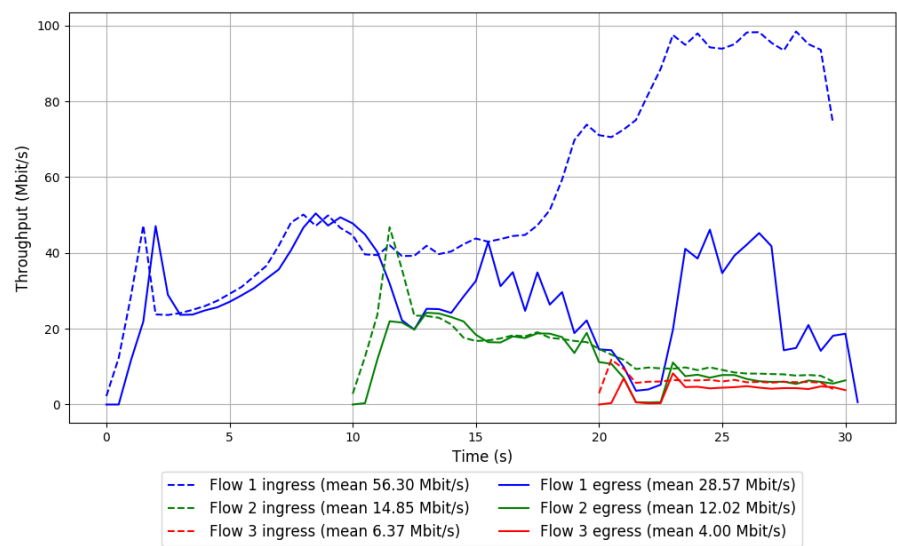
-- Flow 3:

Average throughput: 4.00 Mbit/s

95th percentile per-packet one-way delay: 233.700 ms

Loss rate: 37.31%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-07-17 21:46:30

End at: 2018-07-17 21:47:00

Local clock offset: 3.559 ms

Remote clock offset: 1.014 ms

Below is generated by plot.py at 2018-07-17 22:09:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 40.74 Mbit/s

95th percentile per-packet one-way delay: 129.646 ms

Loss rate: 4.82%

-- Flow 1:

Average throughput: 28.55 Mbit/s

95th percentile per-packet one-way delay: 132.953 ms

Loss rate: 6.19%

-- Flow 2:

Average throughput: 12.60 Mbit/s

95th percentile per-packet one-way delay: 100.260 ms

Loss rate: 0.01%

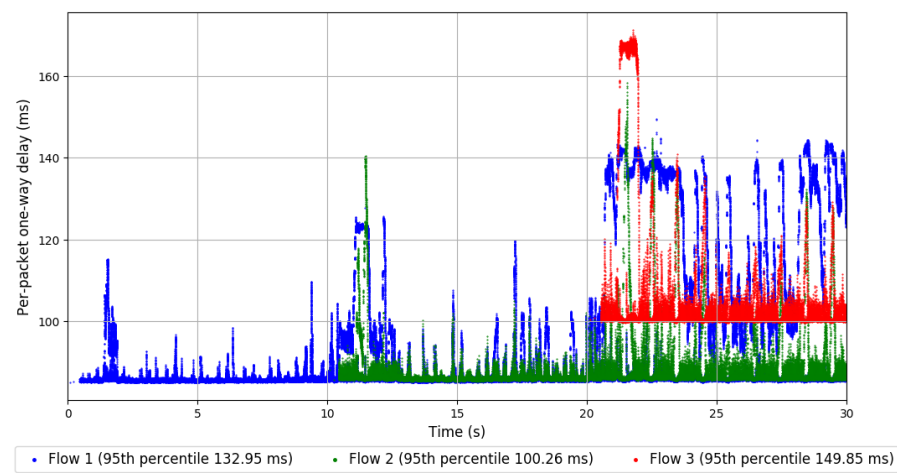
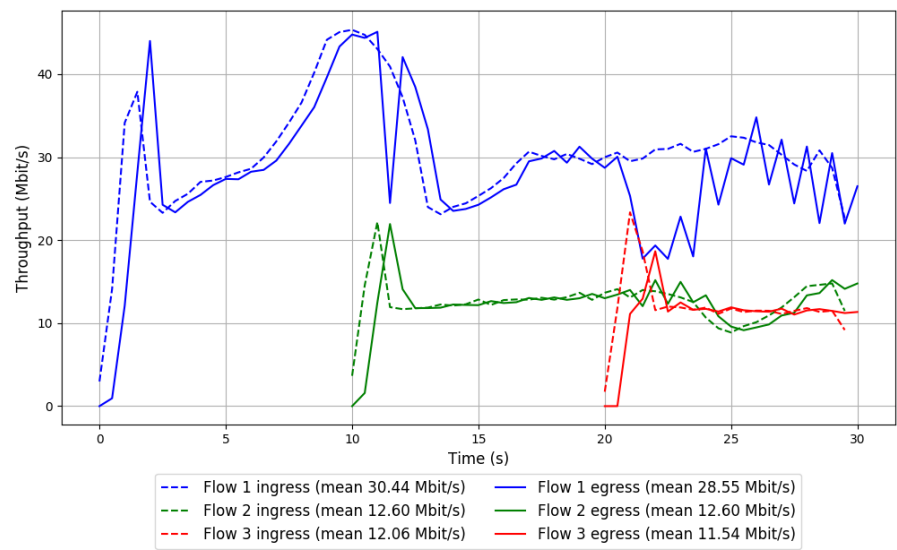
-- Flow 3:

Average throughput: 11.54 Mbit/s

95th percentile per-packet one-way delay: 149.854 ms

Loss rate: 4.41%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-07-17 16:58:11

End at: 2018-07-17 16:58:41

Local clock offset: 6.338 ms

Remote clock offset: 1.016 ms

Below is generated by plot.py at 2018-07-17 22:09:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 47.09 Mbit/s

95th percentile per-packet one-way delay: 150.673 ms

Loss rate: 2.67%

-- Flow 1:

Average throughput: 25.77 Mbit/s

95th percentile per-packet one-way delay: 155.343 ms

Loss rate: 2.24%

-- Flow 2:

Average throughput: 22.56 Mbit/s

95th percentile per-packet one-way delay: 124.691 ms

Loss rate: 1.86%

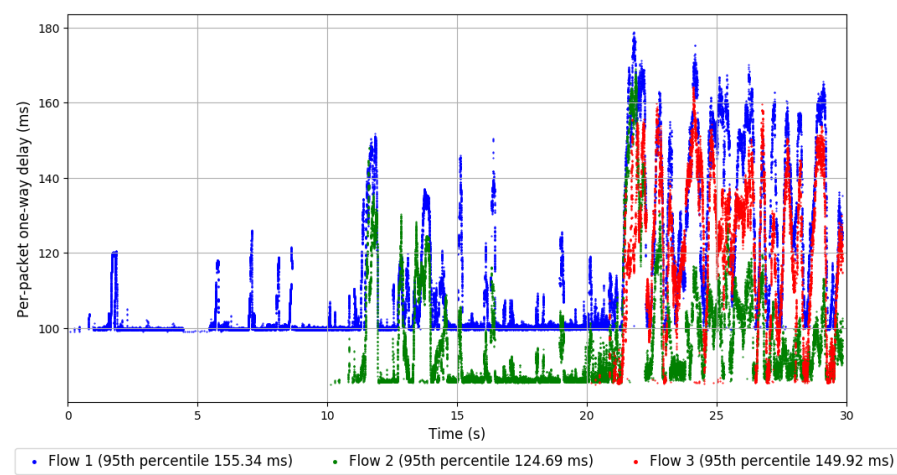
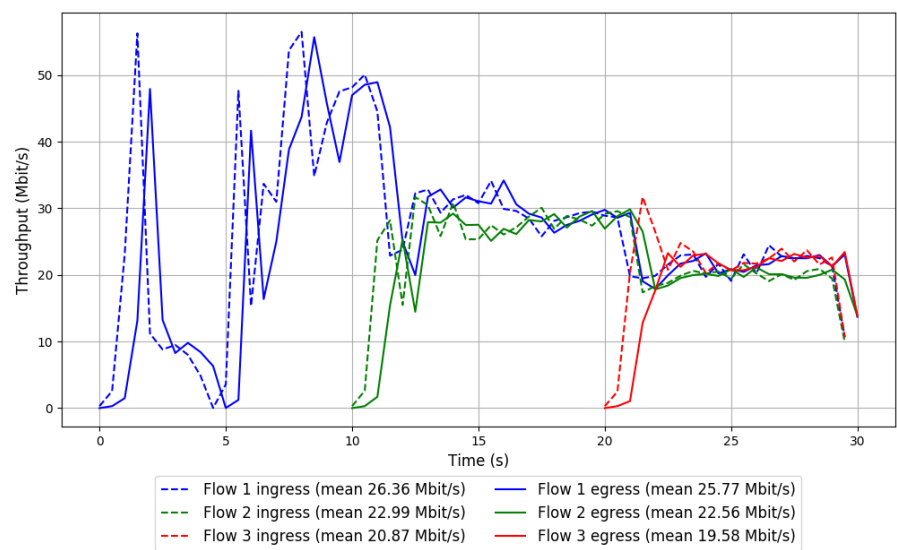
-- Flow 3:

Average throughput: 19.58 Mbit/s

95th percentile per-packet one-way delay: 149.920 ms

Loss rate: 6.18%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-07-17 17:35:30

End at: 2018-07-17 17:36:00

Local clock offset: 7.319 ms

Remote clock offset: 1.191 ms

Below is generated by plot.py at 2018-07-17 22:09:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 42.70 Mbit/s

95th percentile per-packet one-way delay: 125.193 ms

Loss rate: 2.26%

-- Flow 1:

Average throughput: 30.42 Mbit/s

95th percentile per-packet one-way delay: 122.489 ms

Loss rate: 2.58%

-- Flow 2:

Average throughput: 6.87 Mbit/s

95th percentile per-packet one-way delay: 104.581 ms

Loss rate: 0.30%

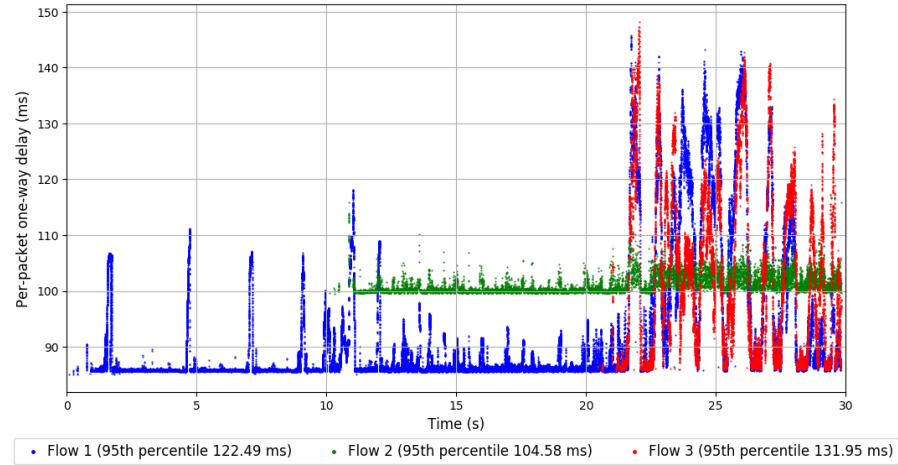
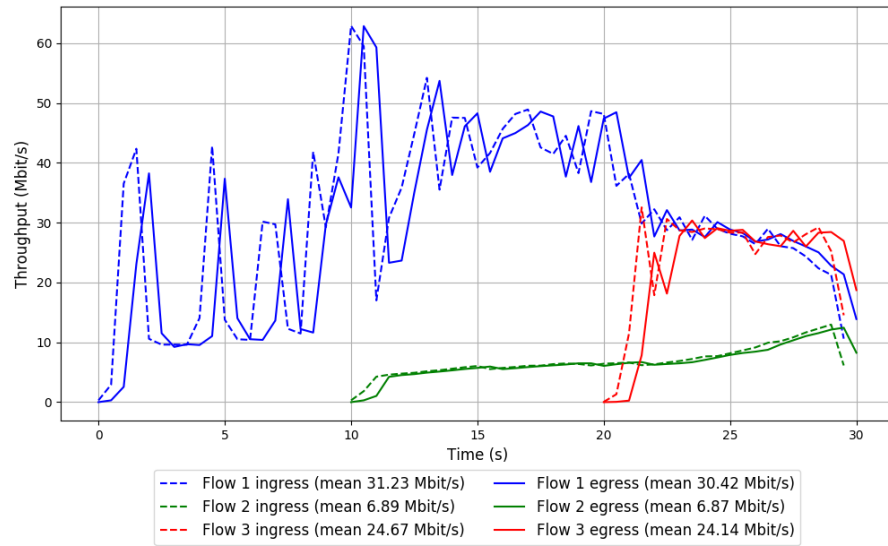
-- Flow 3:

Average throughput: 24.14 Mbit/s

95th percentile per-packet one-way delay: 131.953 ms

Loss rate: 2.10%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-07-17 18:05:34

End at: 2018-07-17 18:06:04

Local clock offset: -3.144 ms

Remote clock offset: 1.314 ms

Below is generated by plot.py at 2018-07-17 22:09:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 43.86 Mbit/s

95th percentile per-packet one-way delay: 125.666 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 23.79 Mbit/s

95th percentile per-packet one-way delay: 127.279 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 26.39 Mbit/s

95th percentile per-packet one-way delay: 126.024 ms

Loss rate: 0.35%

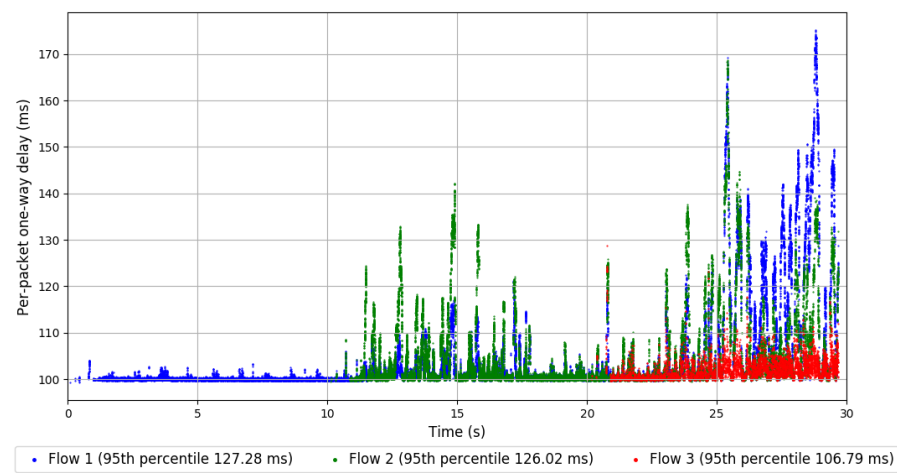
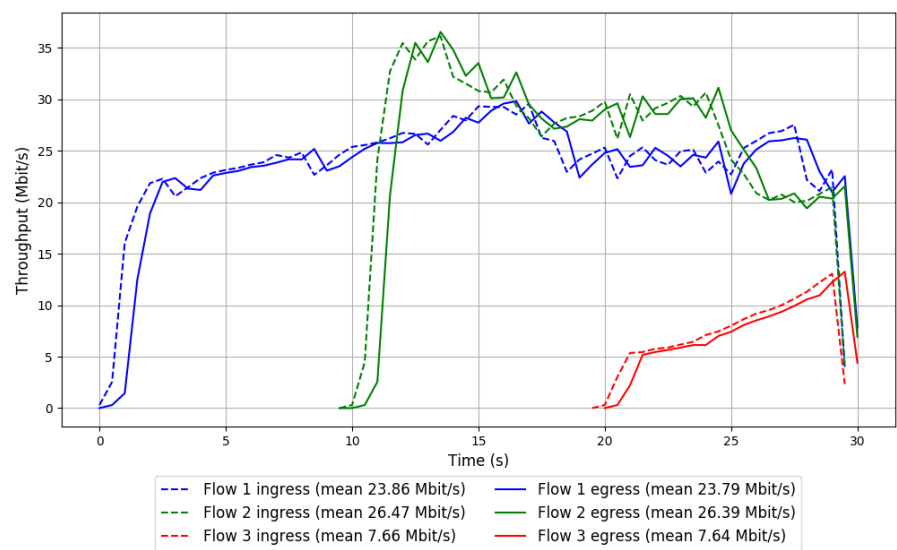
-- Flow 3:

Average throughput: 7.64 Mbit/s

95th percentile per-packet one-way delay: 106.788 ms

Loss rate: 0.18%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-07-17 18:35:34

End at: 2018-07-17 18:36:04

Local clock offset: -6.652 ms

Remote clock offset: 1.287 ms

Below is generated by plot.py at 2018-07-17 22:09:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 45.20 Mbit/s

95th percentile per-packet one-way delay: 150.533 ms

Loss rate: 3.14%

-- Flow 1:

Average throughput: 23.07 Mbit/s

95th percentile per-packet one-way delay: 154.266 ms

Loss rate: 4.02%

-- Flow 2:

Average throughput: 24.30 Mbit/s

95th percentile per-packet one-way delay: 145.005 ms

Loss rate: 1.64%

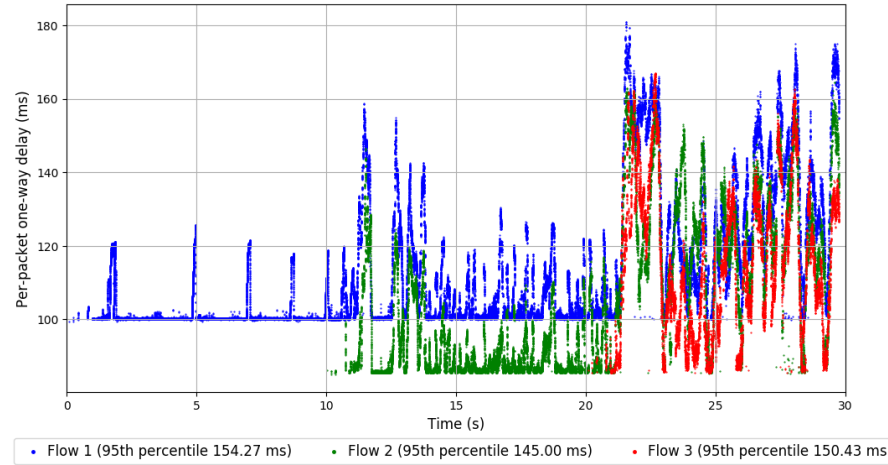
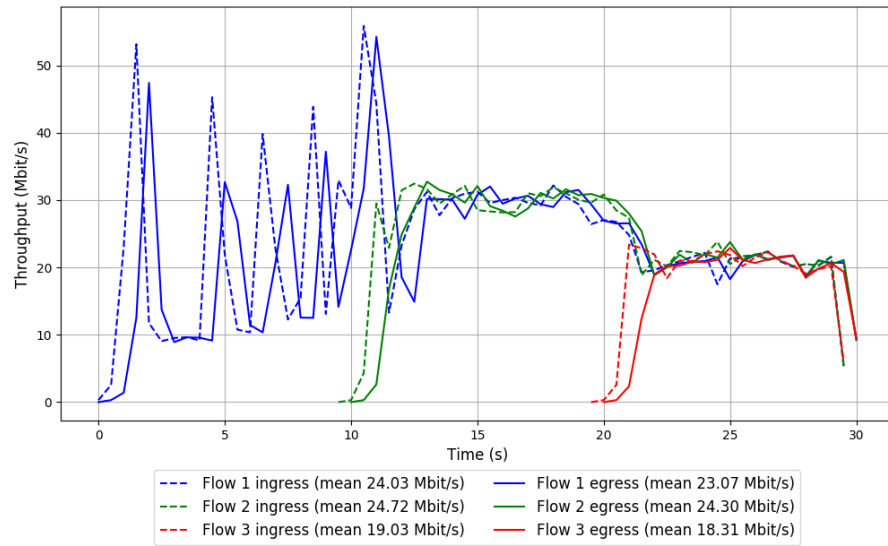
-- Flow 3:

Average throughput: 18.31 Mbit/s

95th percentile per-packet one-way delay: 150.433 ms

Loss rate: 3.70%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-07-17 19:06:15

End at: 2018-07-17 19:06:45

Local clock offset: 6.908 ms

Remote clock offset: 1.374 ms

Below is generated by plot.py at 2018-07-17 22:09:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 45.93 Mbit/s

95th percentile per-packet one-way delay: 151.300 ms

Loss rate: 3.31%

-- Flow 1:

Average throughput: 24.69 Mbit/s

95th percentile per-packet one-way delay: 135.675 ms

Loss rate: 2.96%

-- Flow 2:

Average throughput: 22.64 Mbit/s

95th percentile per-packet one-way delay: 150.580 ms

Loss rate: 2.71%

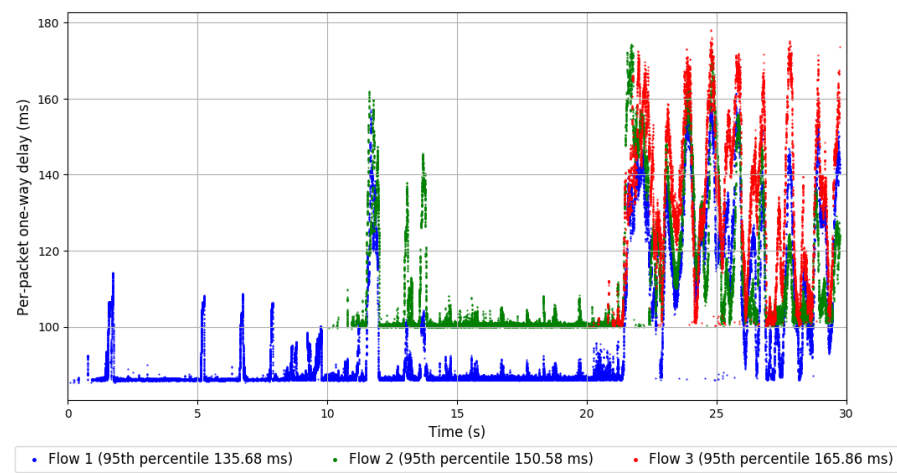
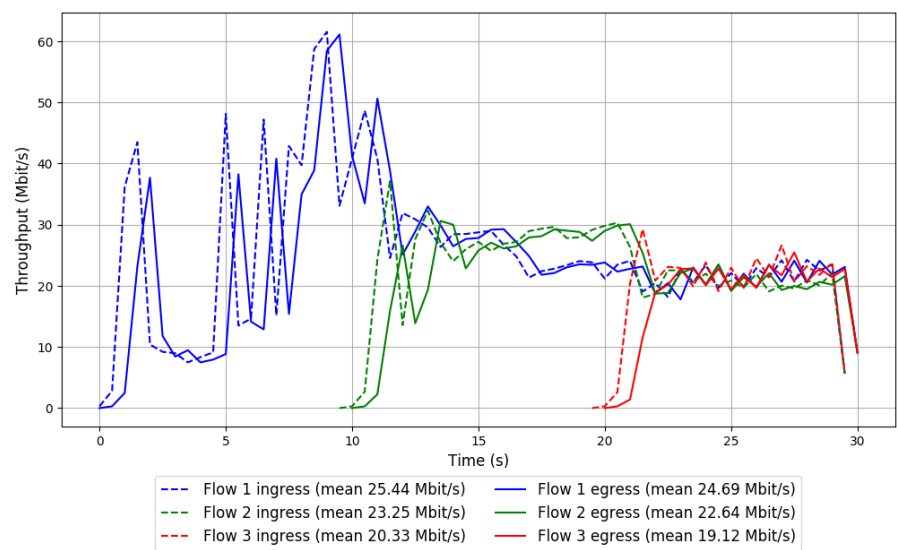
-- Flow 3:

Average throughput: 19.12 Mbit/s

95th percentile per-packet one-way delay: 165.858 ms

Loss rate: 6.01%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-07-17 19:37:43

End at: 2018-07-17 19:38:13

Local clock offset: 6.222 ms

Remote clock offset: 1.267 ms

Below is generated by plot.py at 2018-07-17 22:09:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 47.30 Mbit/s

95th percentile per-packet one-way delay: 143.733 ms

Loss rate: 1.67%

-- Flow 1:

Average throughput: 26.49 Mbit/s

95th percentile per-packet one-way delay: 136.323 ms

Loss rate: 0.87%

-- Flow 2:

Average throughput: 21.90 Mbit/s

95th percentile per-packet one-way delay: 128.360 ms

Loss rate: 1.58%

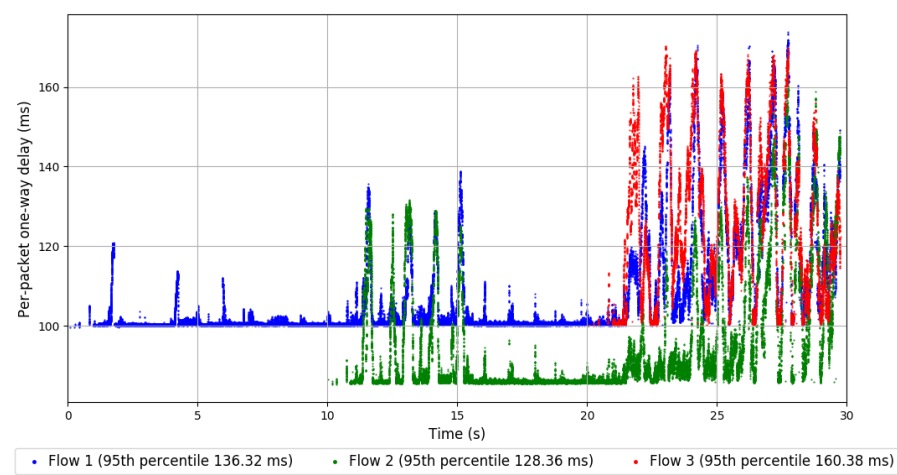
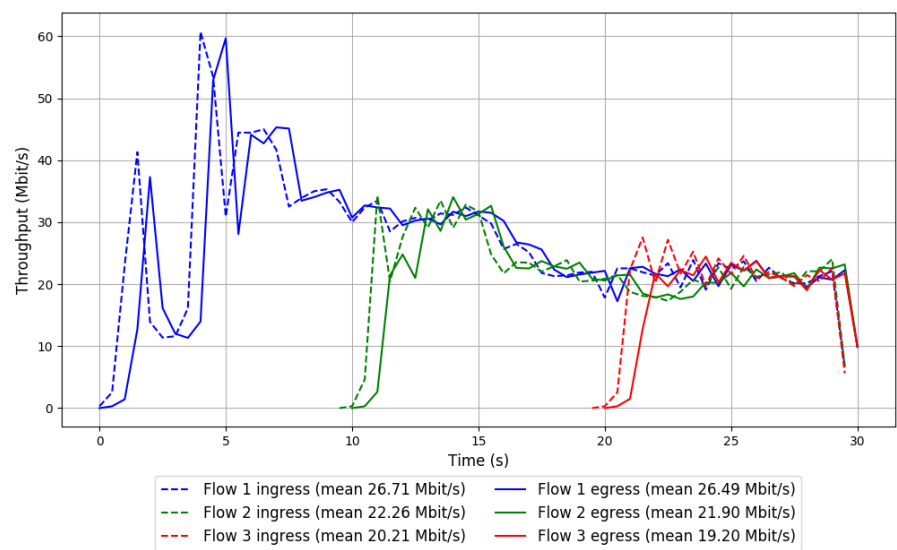
-- Flow 3:

Average throughput: 19.20 Mbit/s

95th percentile per-packet one-way delay: 160.385 ms

Loss rate: 5.07%

Run 6: Report of QUIC Cubic — Data Link

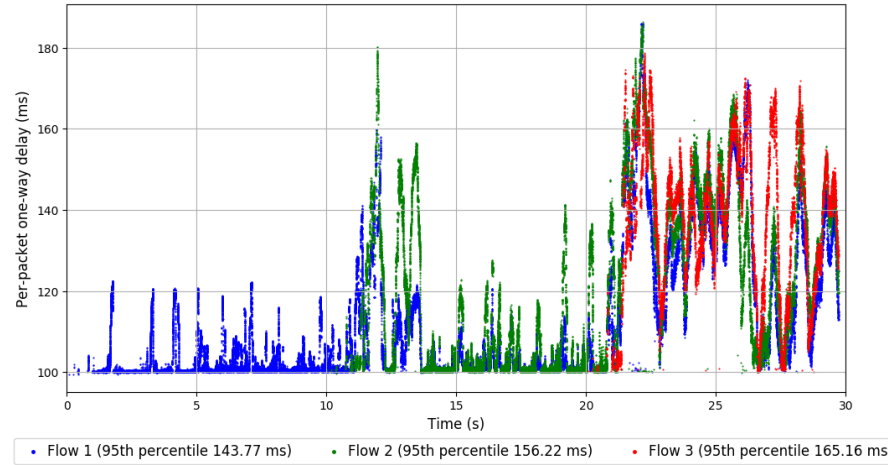
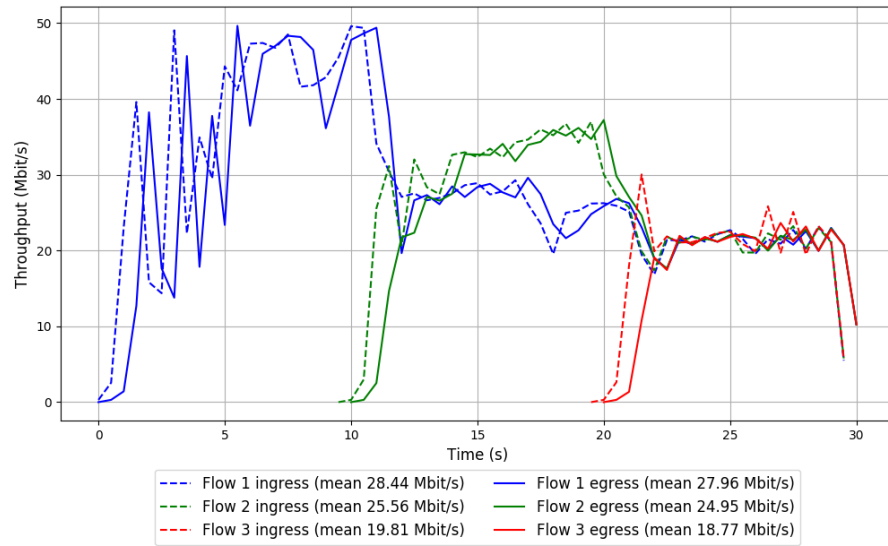


Run 7: Statistics of QUIC Cubic

Start at: 2018-07-17 20:11:15
End at: 2018-07-17 20:11:45
Local clock offset: 4.294 ms
Remote clock offset: 1.024 ms

Below is generated by plot.py at 2018-07-17 22:09:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 50.66 Mbit/s
95th percentile per-packet one-way delay: 154.784 ms
Loss rate: 2.39%
-- Flow 1:
Average throughput: 27.96 Mbit/s
95th percentile per-packet one-way delay: 143.766 ms
Loss rate: 1.69%
-- Flow 2:
Average throughput: 24.95 Mbit/s
95th percentile per-packet one-way delay: 156.218 ms
Loss rate: 2.43%
-- Flow 3:
Average throughput: 18.77 Mbit/s
95th percentile per-packet one-way delay: 165.162 ms
Loss rate: 5.36%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-07-17 20:47:29

End at: 2018-07-17 20:47:59

Local clock offset: 6.27 ms

Remote clock offset: 0.863 ms

Below is generated by plot.py at 2018-07-17 22:09:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 47.88 Mbit/s

95th percentile per-packet one-way delay: 133.826 ms

Loss rate: 1.79%

-- Flow 1:

Average throughput: 26.89 Mbit/s

95th percentile per-packet one-way delay: 131.355 ms

Loss rate: 2.45%

-- Flow 2:

Average throughput: 28.01 Mbit/s

95th percentile per-packet one-way delay: 137.456 ms

Loss rate: 1.05%

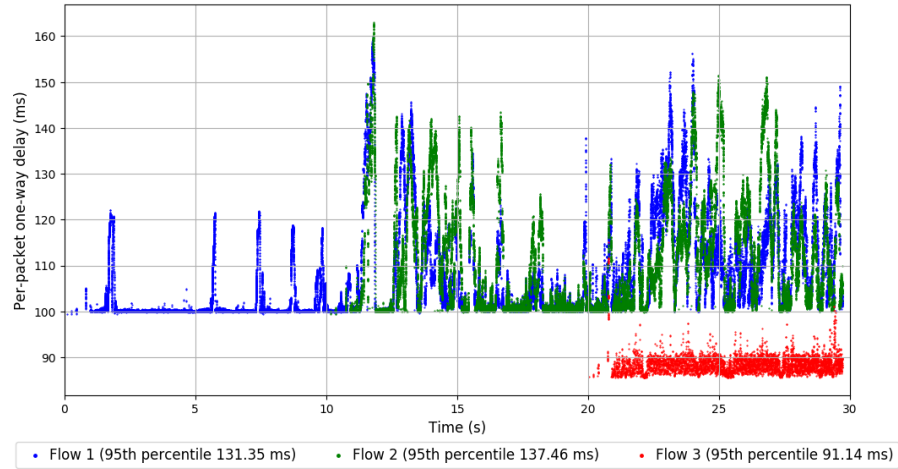
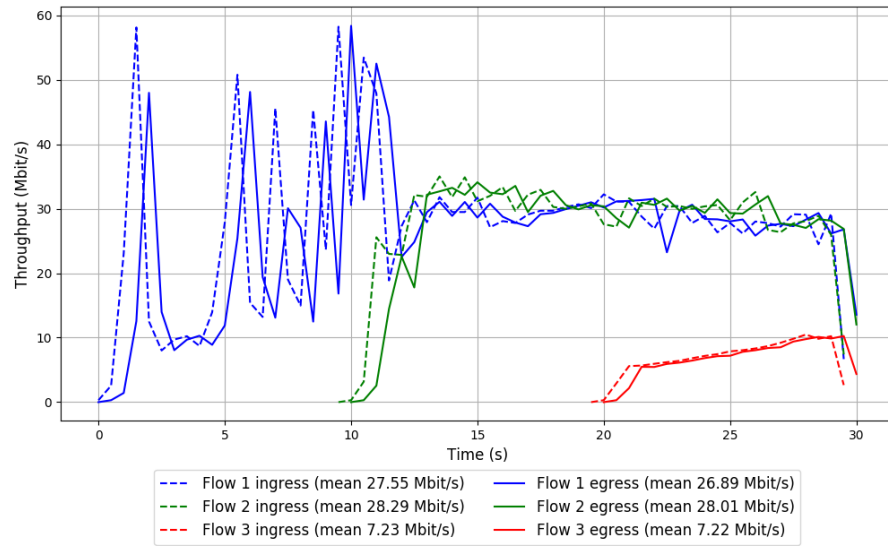
-- Flow 3:

Average throughput: 7.22 Mbit/s

95th percentile per-packet one-way delay: 91.139 ms

Loss rate: 0.02%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-07-17 21:18:40

End at: 2018-07-17 21:19:10

Local clock offset: 6.086 ms

Remote clock offset: 1.026 ms

Below is generated by plot.py at 2018-07-17 22:10:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 47.20 Mbit/s

95th percentile per-packet one-way delay: 144.343 ms

Loss rate: 3.08%

-- Flow 1:

Average throughput: 24.21 Mbit/s

95th percentile per-packet one-way delay: 135.506 ms

Loss rate: 4.54%

-- Flow 2:

Average throughput: 25.26 Mbit/s

95th percentile per-packet one-way delay: 140.357 ms

Loss rate: 1.50%

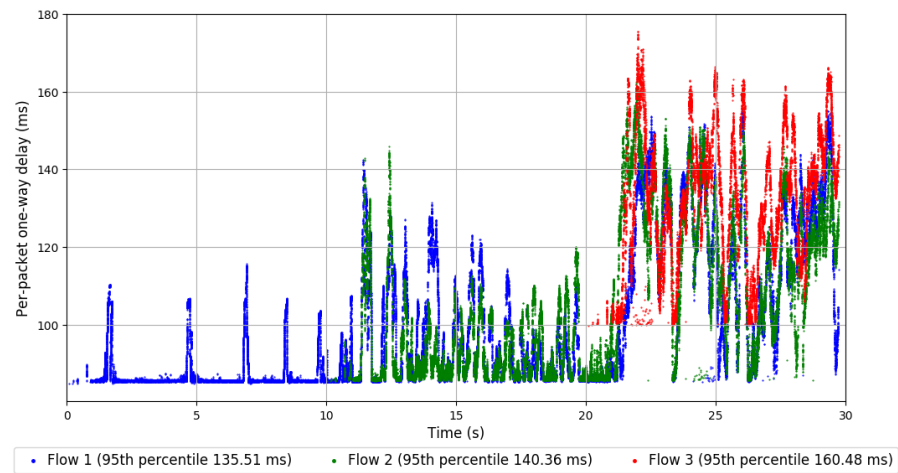
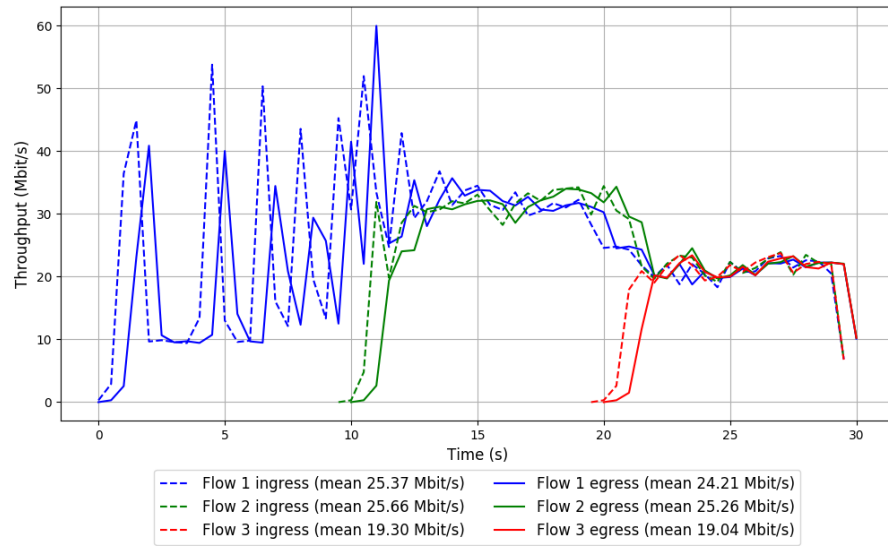
-- Flow 3:

Average throughput: 19.04 Mbit/s

95th percentile per-packet one-way delay: 160.483 ms

Loss rate: 1.44%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-07-17 21:48:38

End at: 2018-07-17 21:49:08

Local clock offset: 3.398 ms

Remote clock offset: 1.051 ms

Below is generated by plot.py at 2018-07-17 22:10:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 47.05 Mbit/s

95th percentile per-packet one-way delay: 153.929 ms

Loss rate: 3.60%

-- Flow 1:

Average throughput: 23.98 Mbit/s

95th percentile per-packet one-way delay: 151.823 ms

Loss rate: 3.74%

-- Flow 2:

Average throughput: 25.65 Mbit/s

95th percentile per-packet one-way delay: 144.203 ms

Loss rate: 2.87%

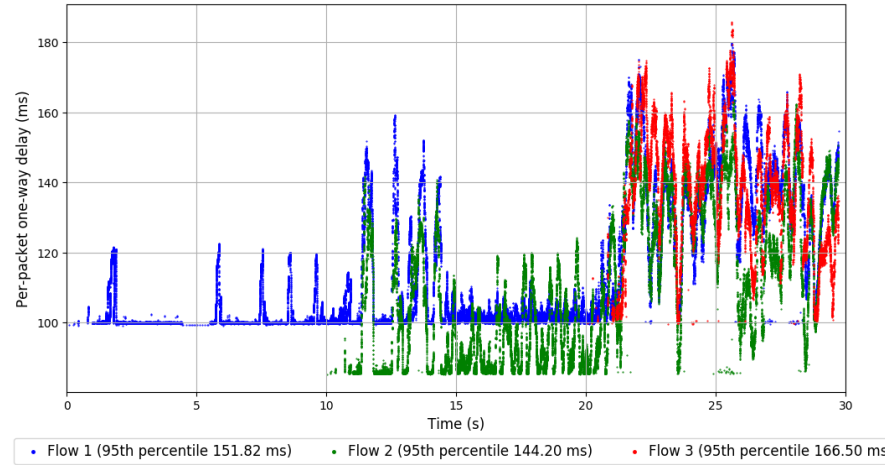
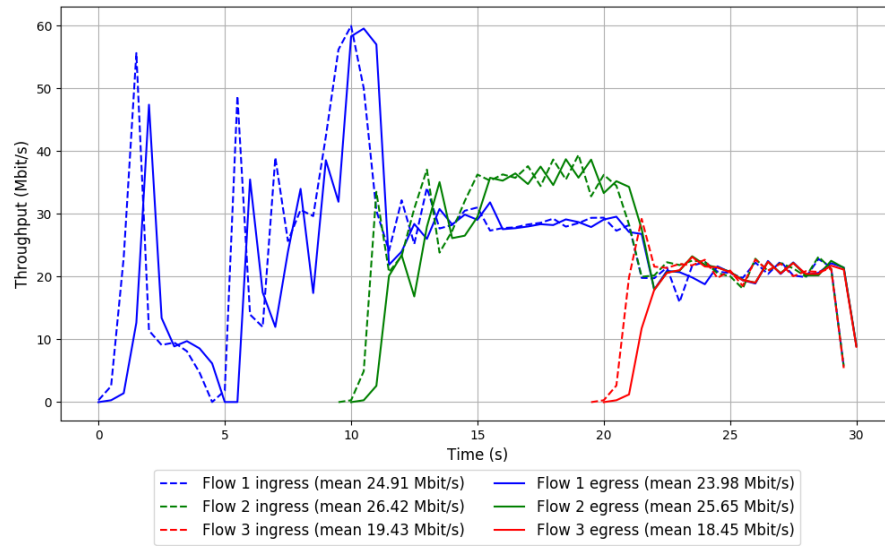
-- Flow 3:

Average throughput: 18.45 Mbit/s

95th percentile per-packet one-way delay: 166.505 ms

Loss rate: 5.12%

Run 10: Report of QUIC Cubic — Data Link

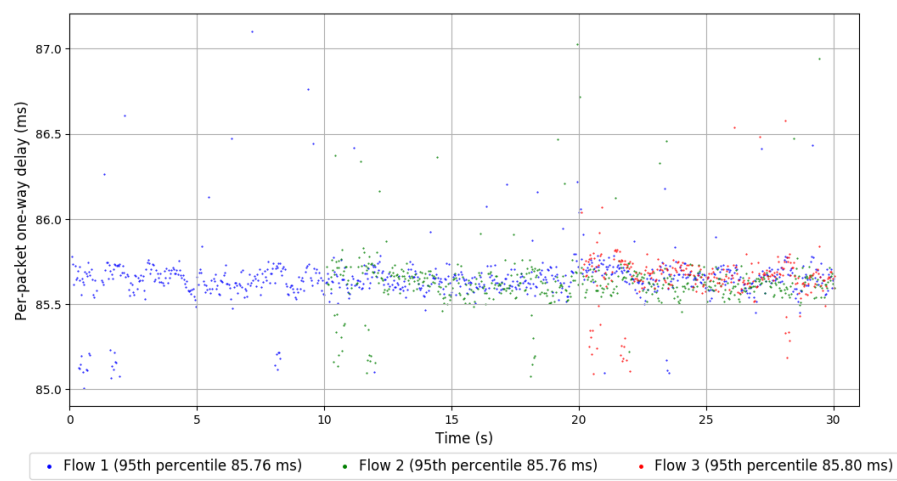
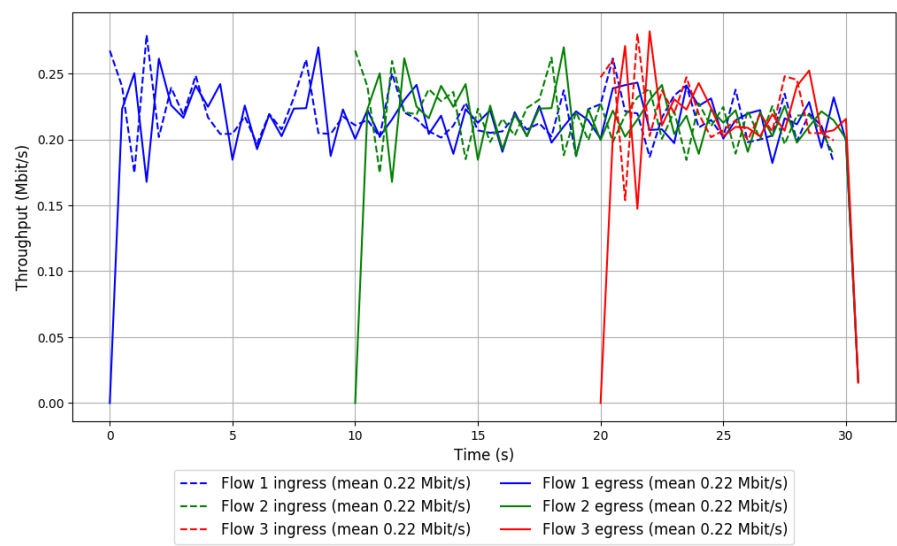


```
Run 1: Statistics of SReAM

Start at: 2018-07-17 16:49:13
End at: 2018-07-17 16:49:43
Local clock offset: 5.434 ms
Remote clock offset: 0.775 ms

# Below is generated by plot.py at 2018-07-17 22:10:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 85.774 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.762 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.758 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.800 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SReAM

Start at: 2018-07-17 17:21:17

End at: 2018-07-17 17:21:47

Local clock offset: 6.829 ms

Remote clock offset: 1.064 ms

Below is generated by plot.py at 2018-07-17 22:10:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 100.234 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

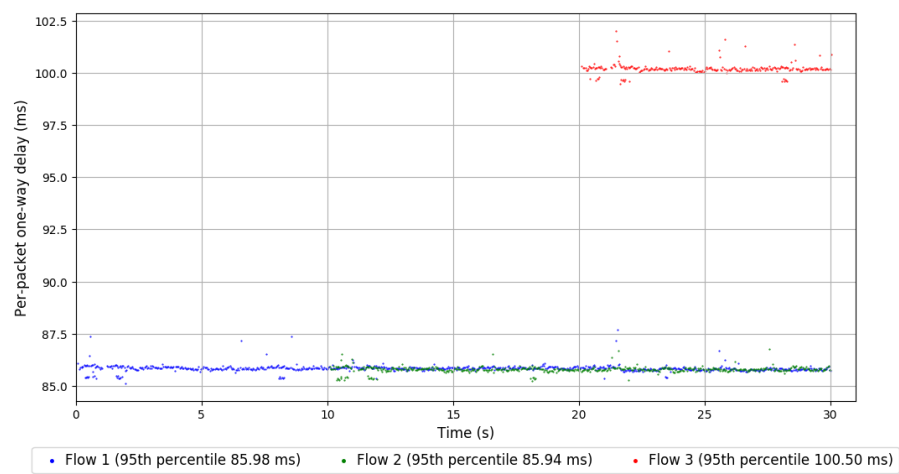
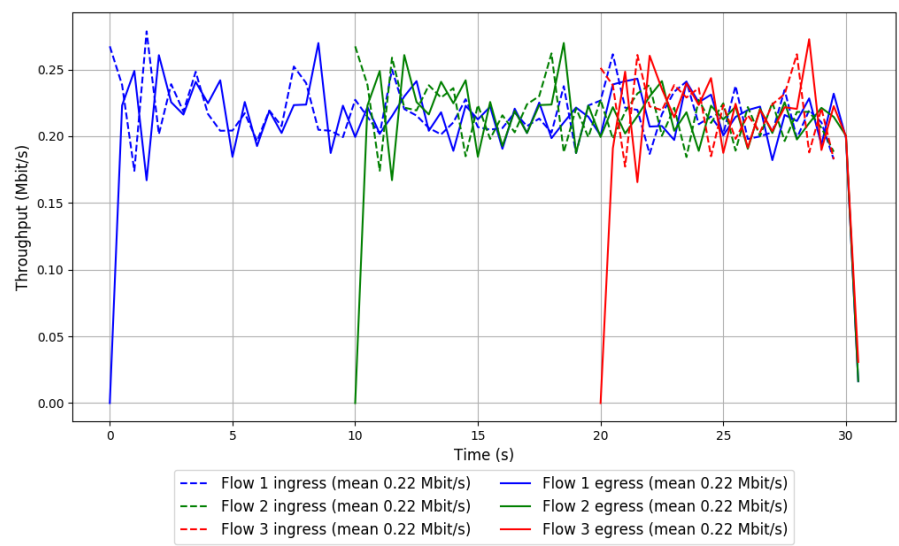
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 100.502 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-07-17 17:56:49

End at: 2018-07-17 17:57:19

Local clock offset: -1.429 ms

Remote clock offset: 1.247 ms

Below is generated by plot.py at 2018-07-17 22:10:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 100.207 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 100.392 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 99.673 ms

Loss rate: 0.00%

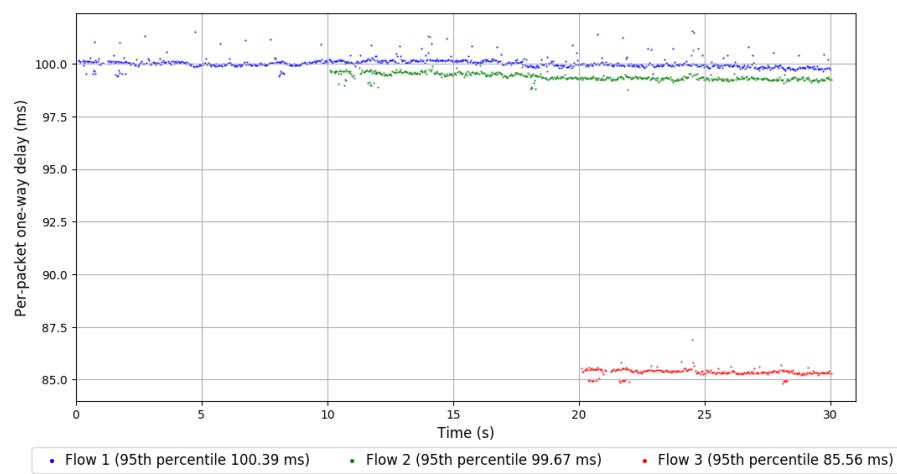
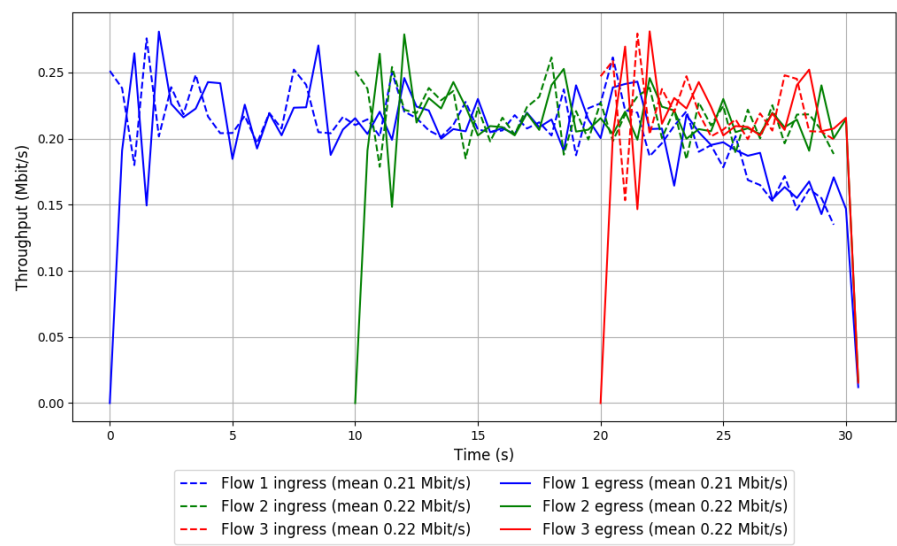
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.557 ms

Loss rate: 0.00%

Run 3: Report of SCSReAM — Data Link

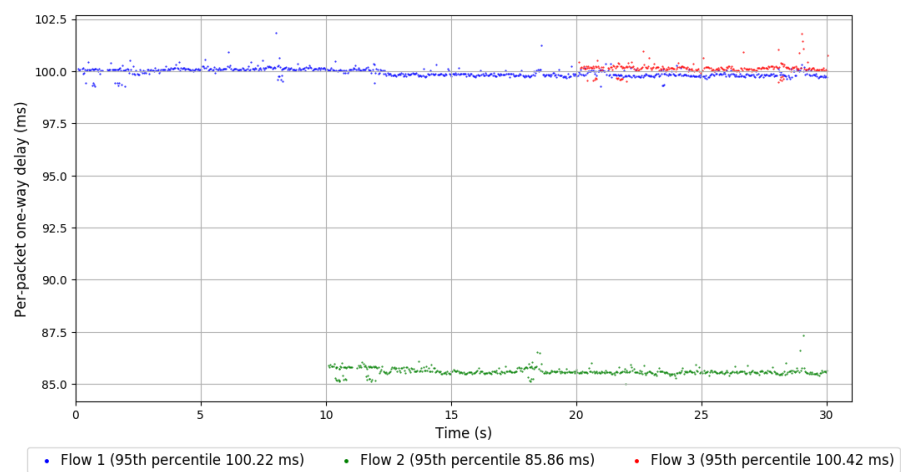
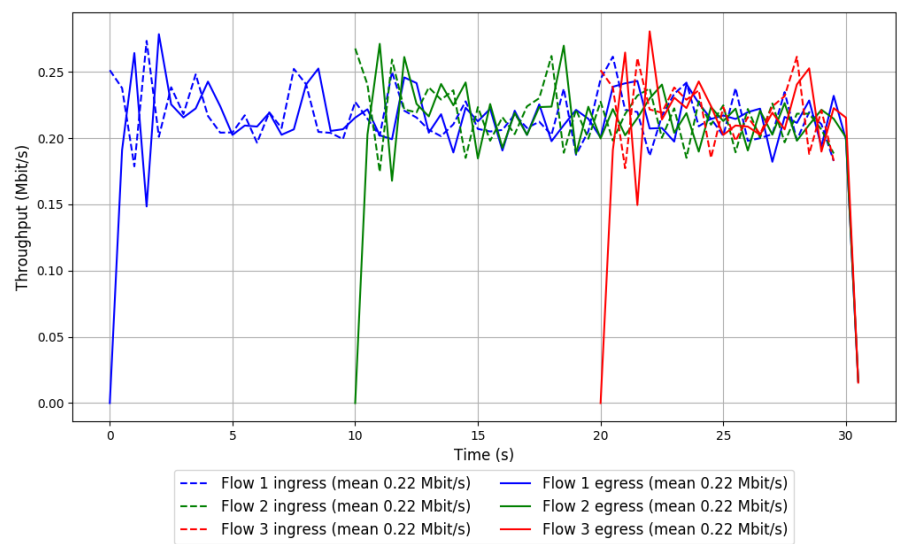


Run 4: Statistics of SReAM

Start at: 2018-07-17 18:26:55
End at: 2018-07-17 18:27:25
Local clock offset: -5.961 ms
Remote clock offset: 1.322 ms

```
# Below is generated by plot.py at 2018-07-17 22:10:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 100.232 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 100.219 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.856 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 100.420 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-07-17 18:57:20

End at: 2018-07-17 18:57:50

Local clock offset: 4.885 ms

Remote clock offset: 1.342 ms

Below is generated by plot.py at 2018-07-17 22:10:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 100.615 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.938 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 100.450 ms

Loss rate: 0.00%

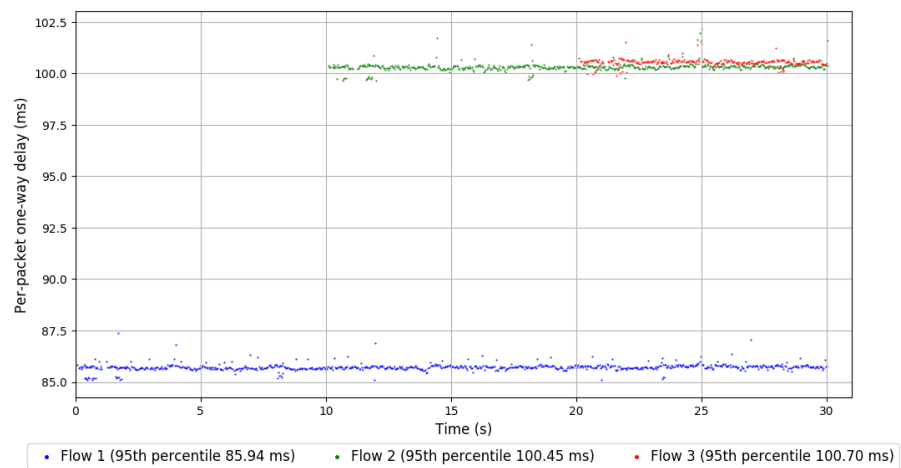
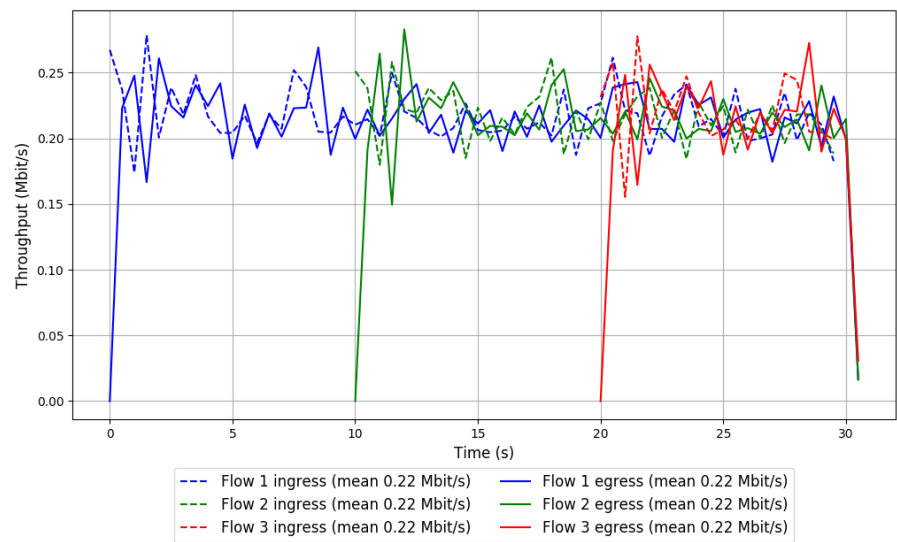
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 100.703 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-07-17 19:28:35

End at: 2018-07-17 19:29:05

Local clock offset: 5.638 ms

Remote clock offset: 1.201 ms

Below is generated by plot.py at 2018-07-17 22:10:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 100.320 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 100.386 ms

Loss rate: 0.00%

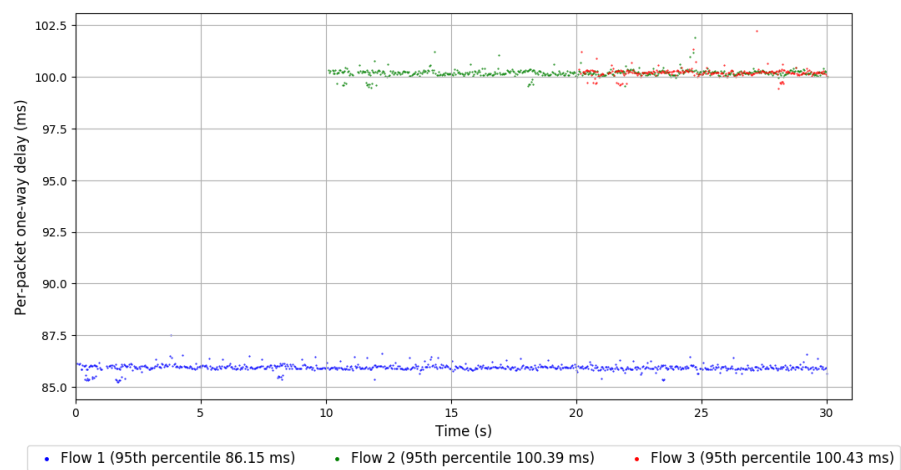
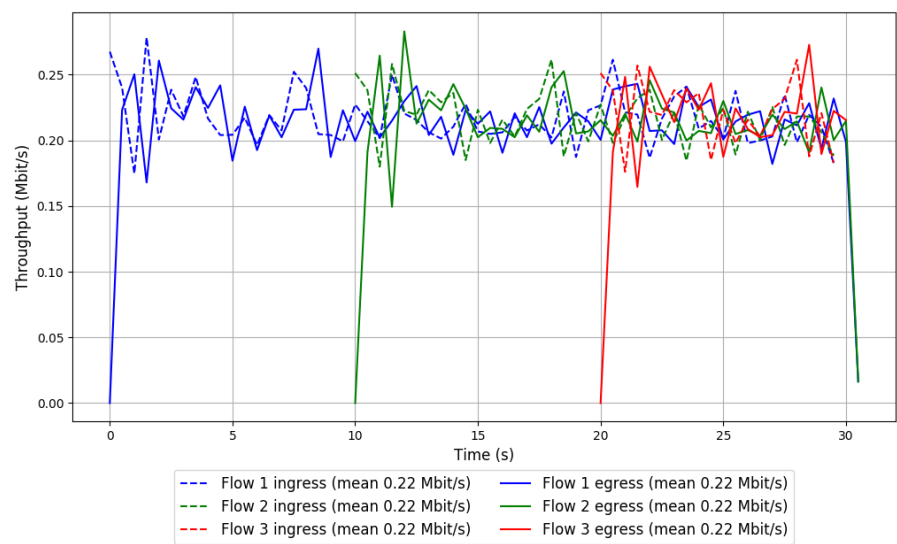
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 100.429 ms

Loss rate: 0.35%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SReAM

Start at: 2018-07-17 20:02:22

End at: 2018-07-17 20:02:52

Local clock offset: 4.334 ms

Remote clock offset: 1.005 ms

Below is generated by plot.py at 2018-07-17 22:10:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 100.041 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 100.145 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.104 ms

Loss rate: 0.00%

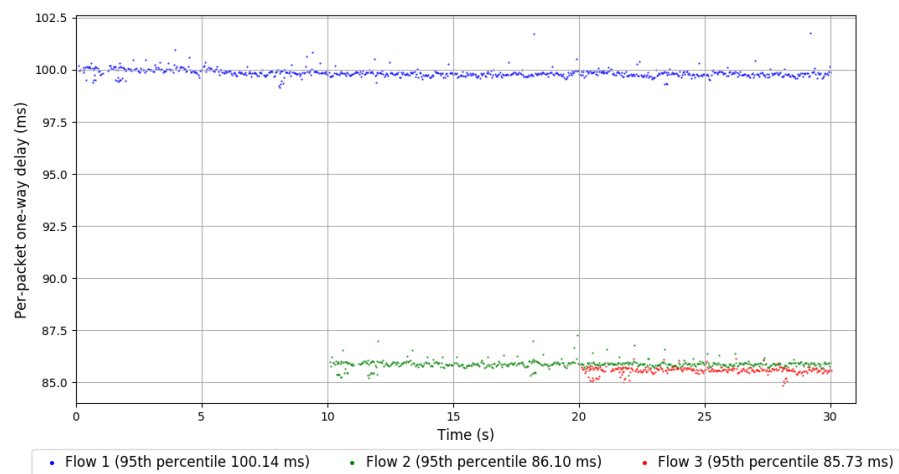
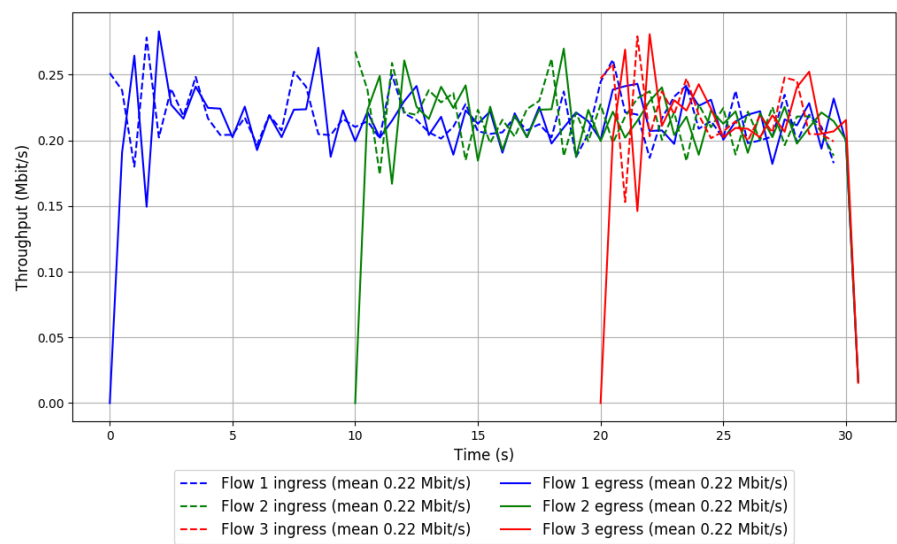
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.729 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-07-17 20:37:48

End at: 2018-07-17 20:38:18

Local clock offset: 6.017 ms

Remote clock offset: 1.012 ms

Below is generated by plot.py at 2018-07-17 22:10:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 100.364 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.125 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 100.465 ms

Loss rate: 0.00%

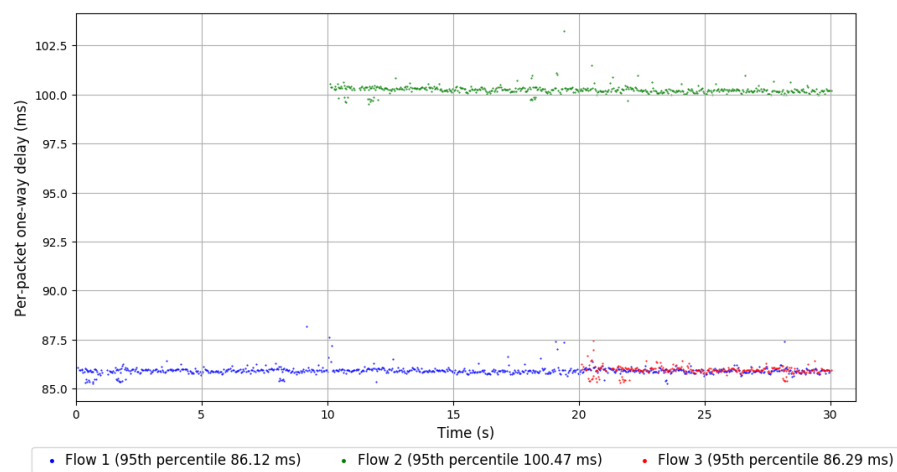
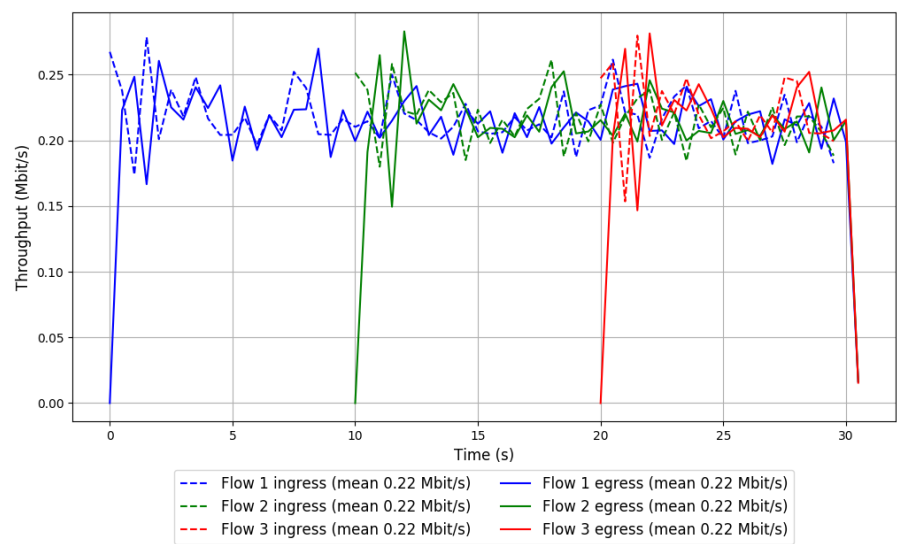
-- Flow 3:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-07-17 21:10:28

End at: 2018-07-17 21:10:58

Local clock offset: 6.812 ms

Remote clock offset: 0.983 ms

Below is generated by plot.py at 2018-07-17 22:10:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 100.079 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.116 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.865 ms

Loss rate: 0.00%

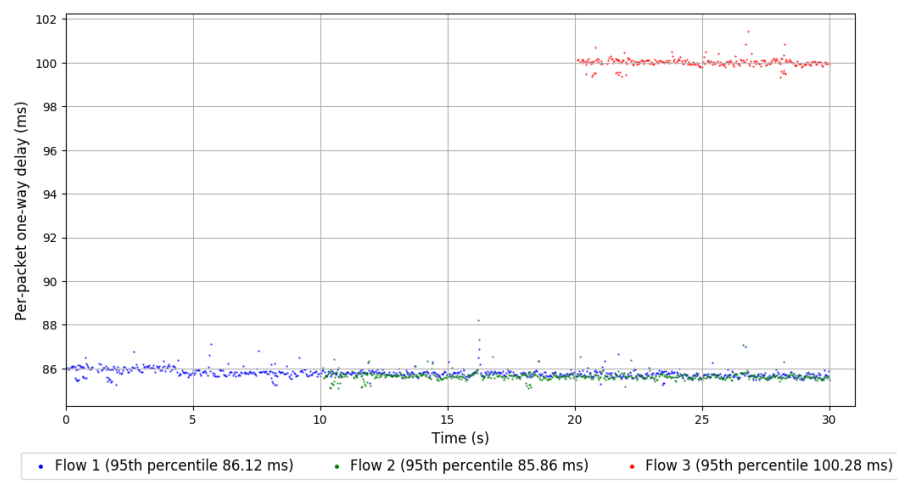
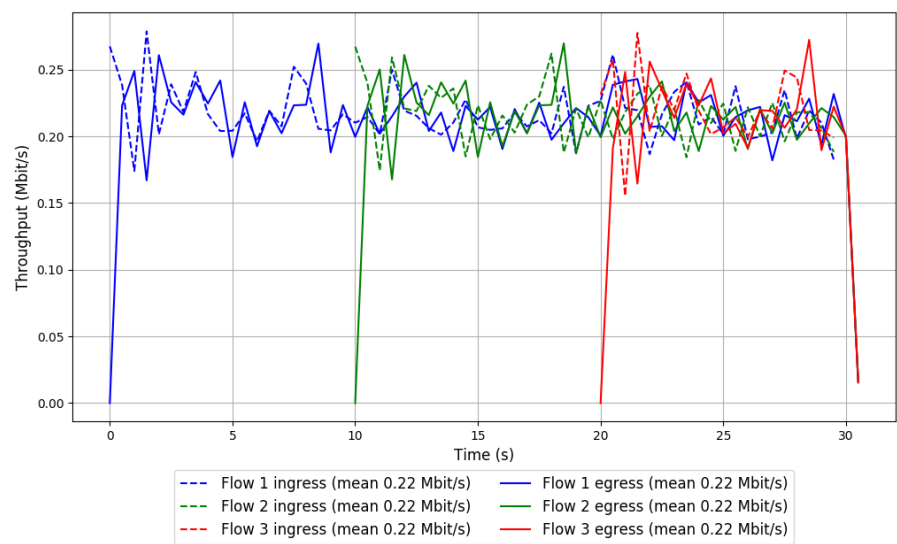
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 100.284 ms

Loss rate: 0.35%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-07-17 21:40:10

End at: 2018-07-17 21:40:40

Local clock offset: 5.312 ms

Remote clock offset: 1.096 ms

Below is generated by plot.py at 2018-07-17 22:10:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 100.066 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.626 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.870 ms

Loss rate: 0.00%

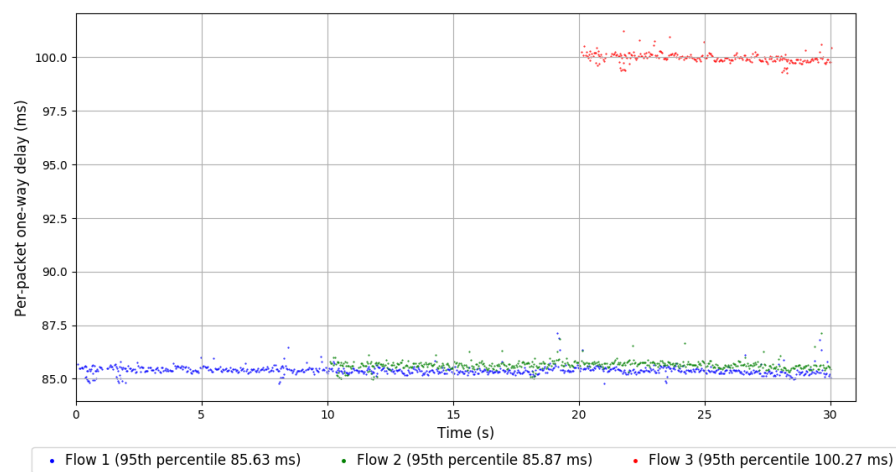
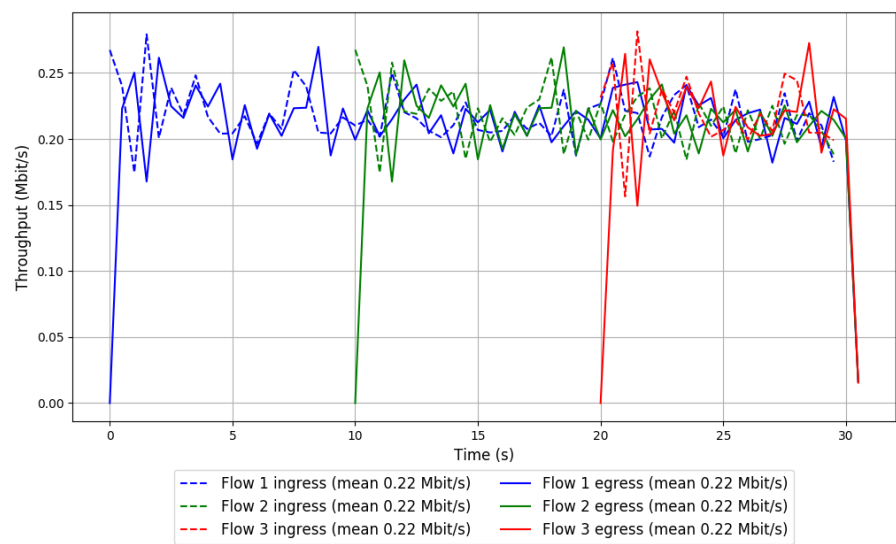
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 100.271 ms

Loss rate: 0.00%

Run 10: Report of SCRaM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-07-17 16:40:43

End at: 2018-07-17 16:41:13

Local clock offset: 3.512 ms

Remote clock offset: 0.65 ms

Below is generated by plot.py at 2018-07-17 22:10:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.72 Mbit/s

95th percentile per-packet one-way delay: 101.357 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 101.397 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 101.512 ms

Loss rate: 0.13%

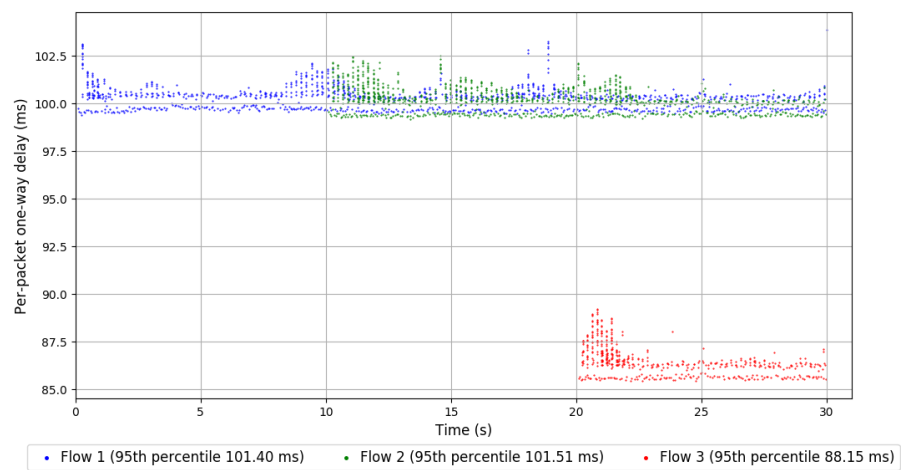
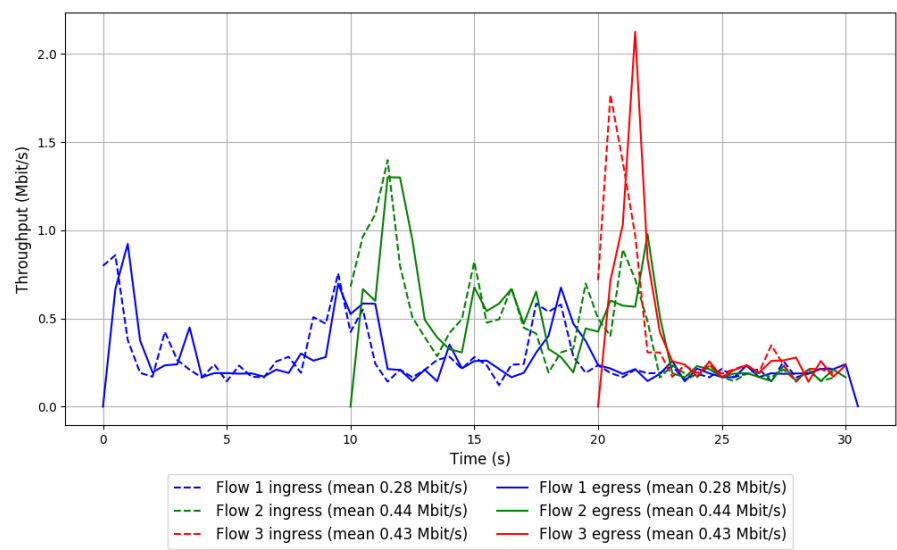
-- Flow 3:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 88.148 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

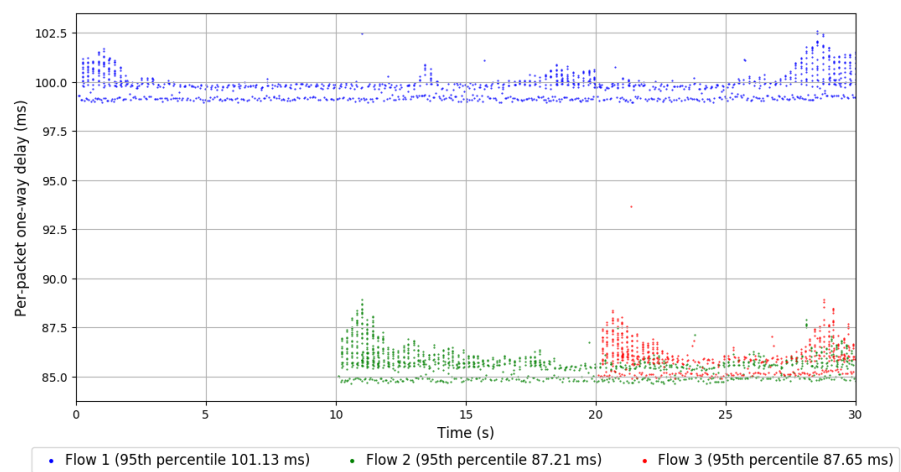
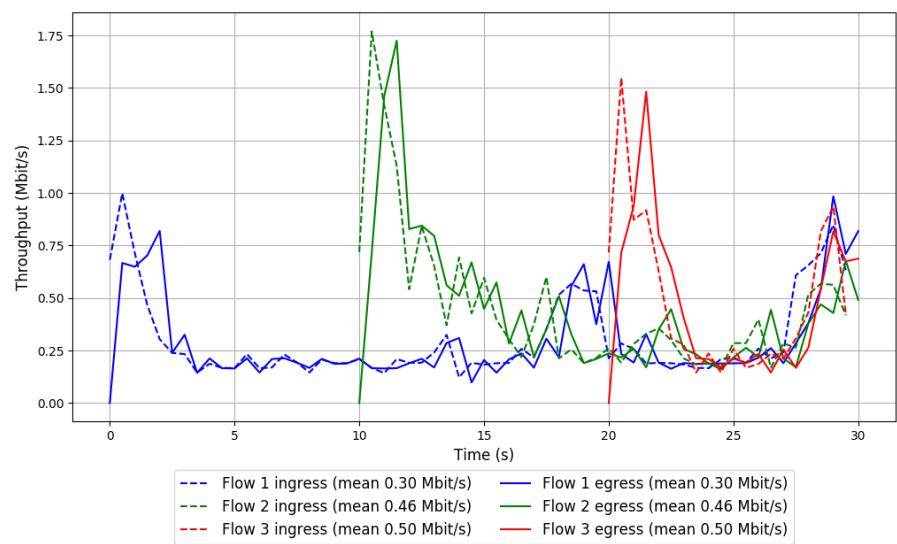


Run 2: Statistics of Sprout

Start at: 2018-07-17 17:12:33
End at: 2018-07-17 17:13:03
Local clock offset: 6.924 ms
Remote clock offset: 1.036 ms

```
# Below is generated by plot.py at 2018-07-17 22:10:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.77 Mbit/s
95th percentile per-packet one-way delay: 100.654 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 101.133 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 87.209 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 87.647 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link

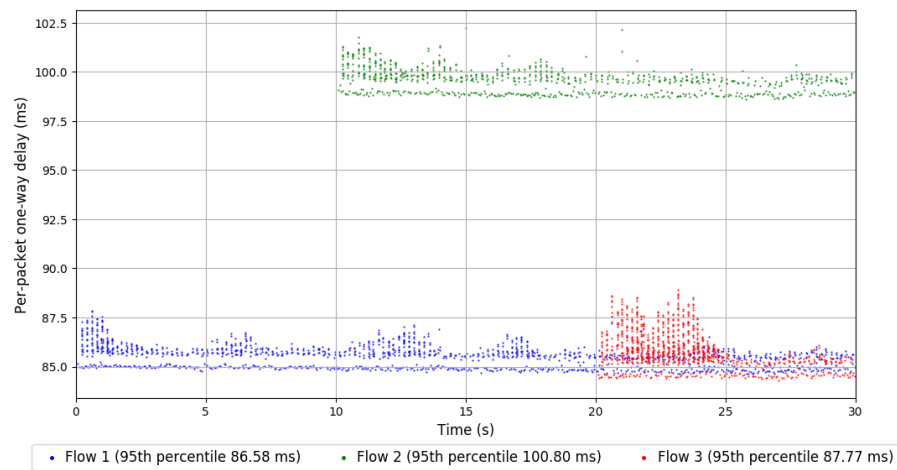
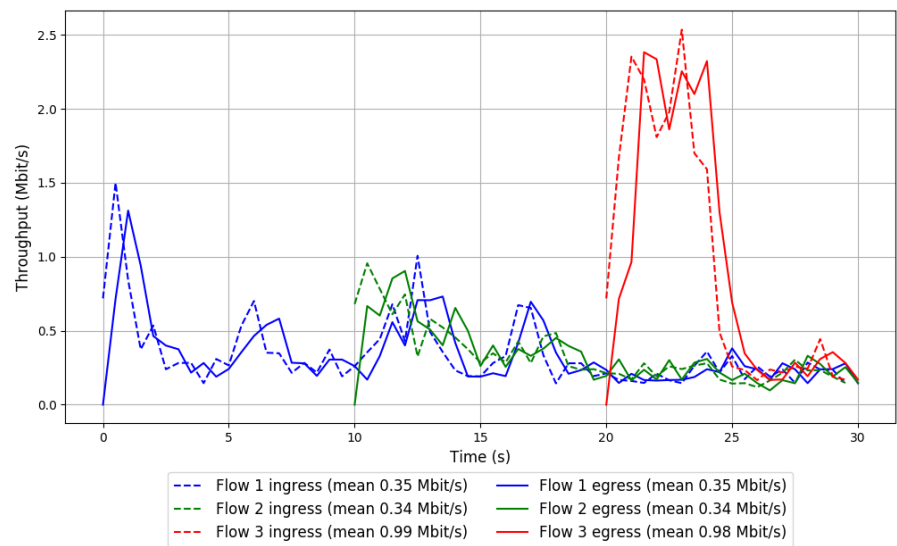


Run 3: Statistics of Sprout

Start at: 2018-07-17 17:48:31
End at: 2018-07-17 17:49:01
Local clock offset: 1.701 ms
Remote clock offset: 1.321 ms

```
# Below is generated by plot.py at 2018-07-17 22:10:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.90 Mbit/s
95th percentile per-packet one-way delay: 100.071 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 86.576 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 100.795 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 0.98 Mbit/s
95th percentile per-packet one-way delay: 87.774 ms
Loss rate: 0.12%
```

Run 3: Report of Sprout — Data Link

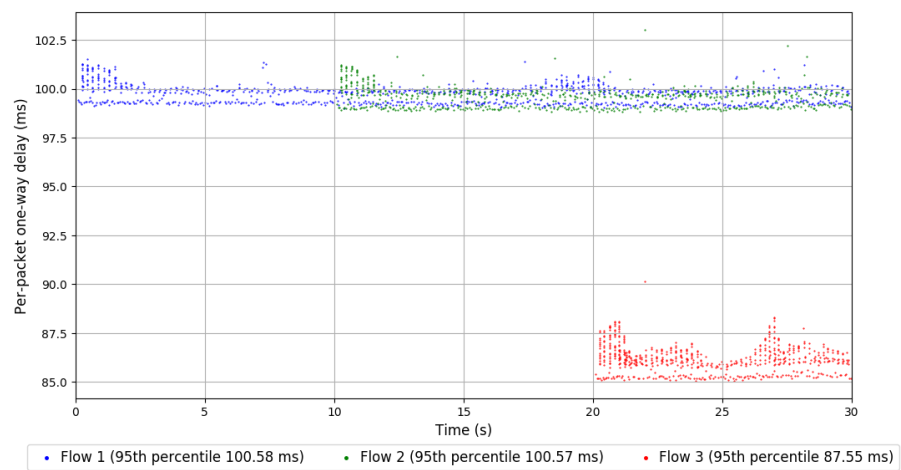
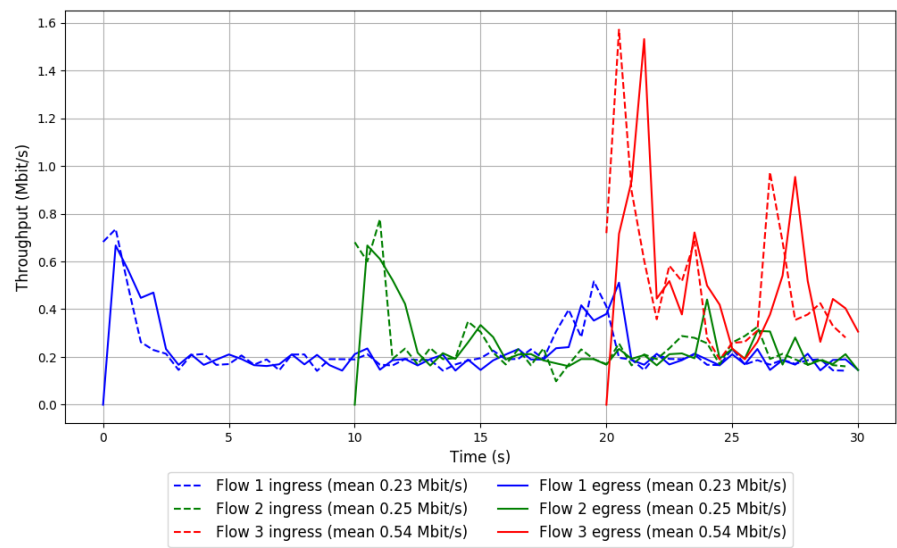


Run 4: Statistics of Sprout

Start at: 2018-07-17 18:18:32
End at: 2018-07-17 18:19:02
Local clock offset: -4.857 ms
Remote clock offset: 1.245 ms

```
# Below is generated by plot.py at 2018-07-17 22:10:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 100.453 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 100.585 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 100.569 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 87.551 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

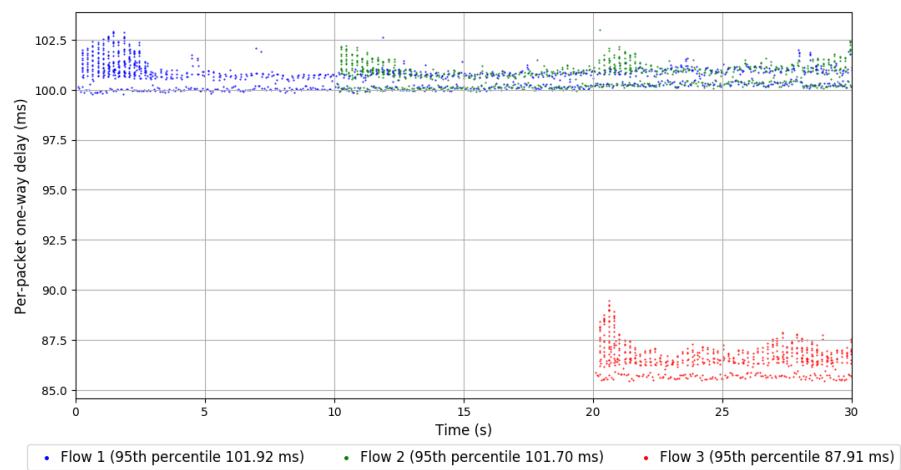
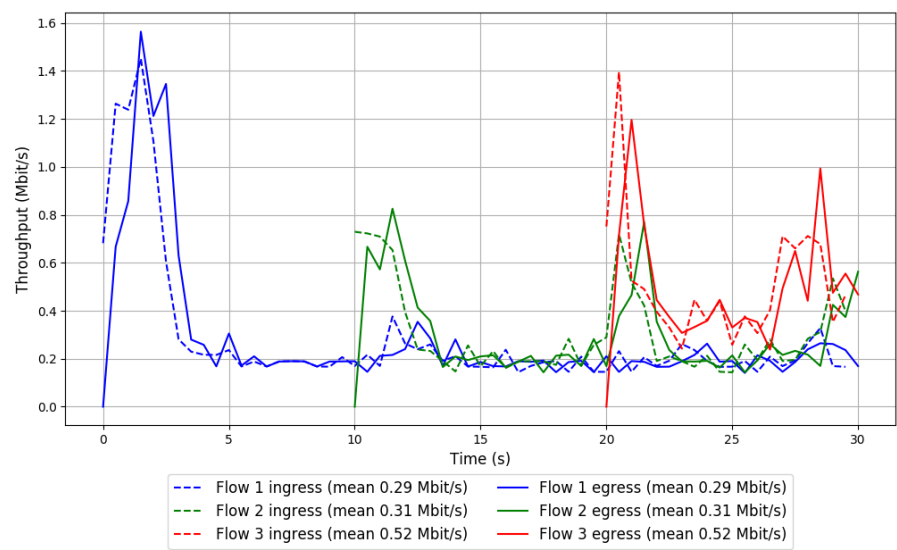


Run 5: Statistics of Sprout

Start at: 2018-07-17 18:48:41
End at: 2018-07-17 18:49:11
Local clock offset: 0.752 ms
Remote clock offset: 1.369 ms

```
# Below is generated by plot.py at 2018-07-17 22:10:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 101.725 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 101.917 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.31 Mbit/s
95th percentile per-packet one-way delay: 101.701 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 87.905 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-07-17 19:19:47

End at: 2018-07-17 19:20:17

Local clock offset: 6.044 ms

Remote clock offset: 1.307 ms

Below is generated by plot.py at 2018-07-17 22:10:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.81 Mbit/s

95th percentile per-packet one-way delay: 100.380 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 87.305 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 101.092 ms

Loss rate: 0.00%

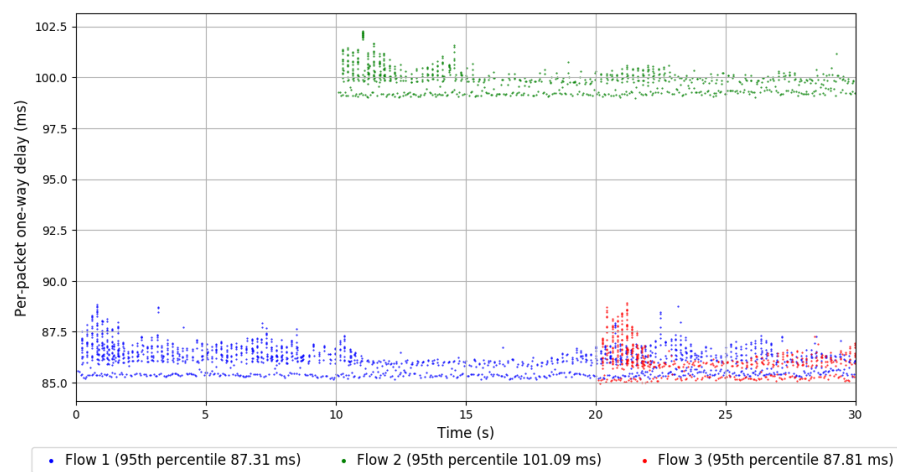
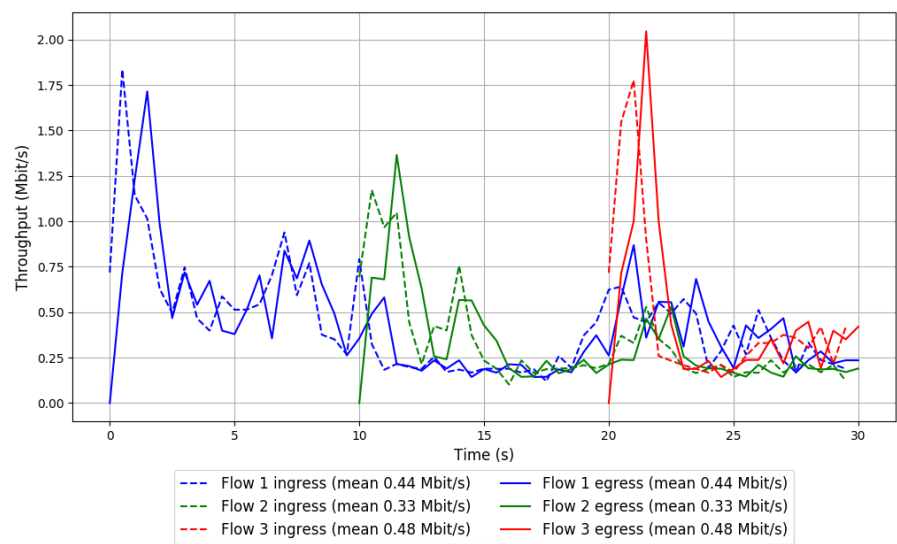
-- Flow 3:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 87.806 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link

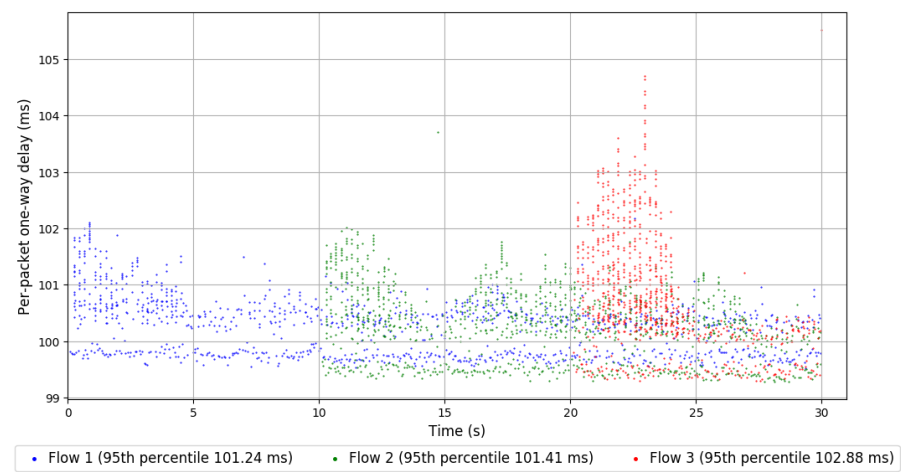
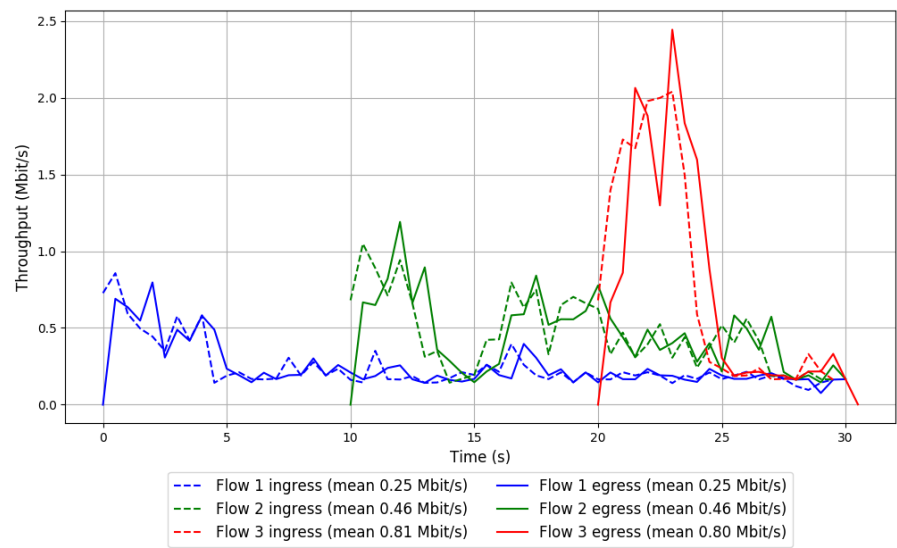


Run 7: Statistics of Sprout

Start at: 2018-07-17 19:53:39
End at: 2018-07-17 19:54:09
Local clock offset: 4.387 ms
Remote clock offset: 1.15 ms

```
# Below is generated by plot.py at 2018-07-17 22:10:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.82 Mbit/s
95th percentile per-packet one-way delay: 101.966 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 101.236 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 101.413 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.80 Mbit/s
95th percentile per-packet one-way delay: 102.876 ms
Loss rate: 0.00%
```

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-07-17 20:28:23

End at: 2018-07-17 20:28:53

Local clock offset: 5.68 ms

Remote clock offset: 0.949 ms

Below is generated by plot.py at 2018-07-17 22:10:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.73 Mbit/s

95th percentile per-packet one-way delay: 101.913 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 101.884 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 101.805 ms

Loss rate: 0.00%

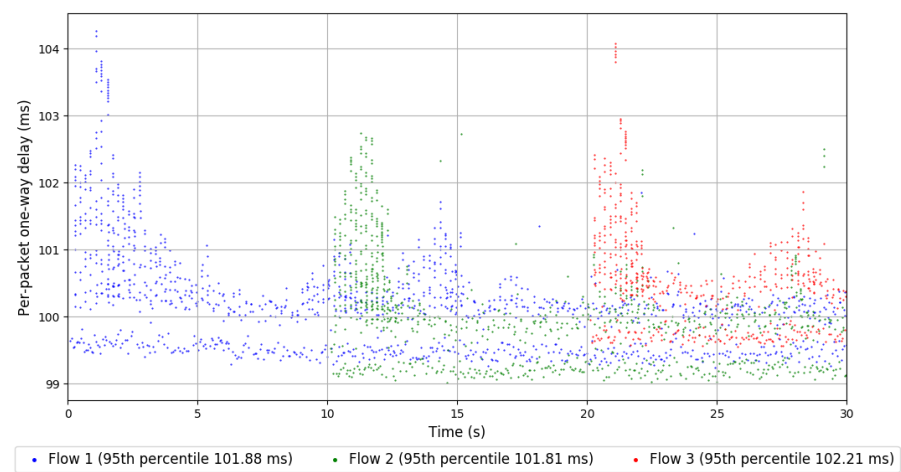
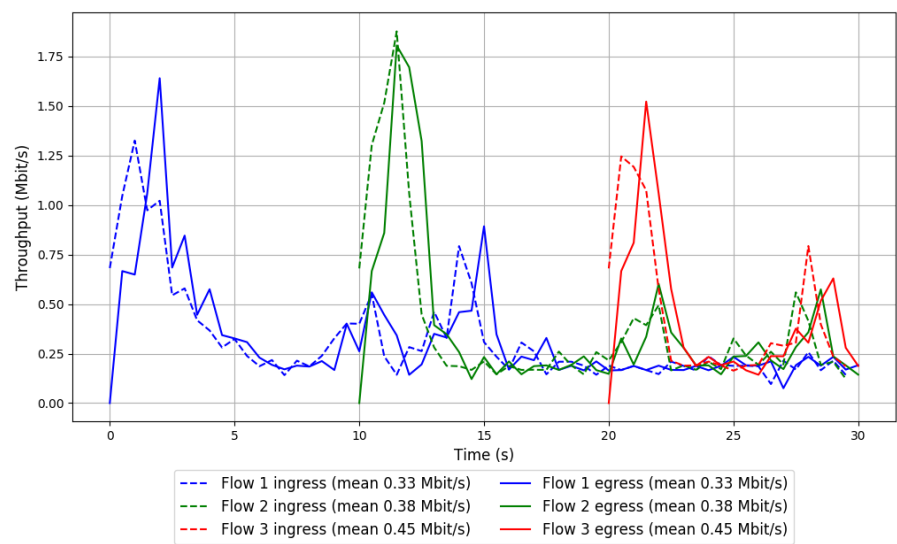
-- Flow 3:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 102.213 ms

Loss rate: 0.02%

Run 8: Report of Sprout — Data Link

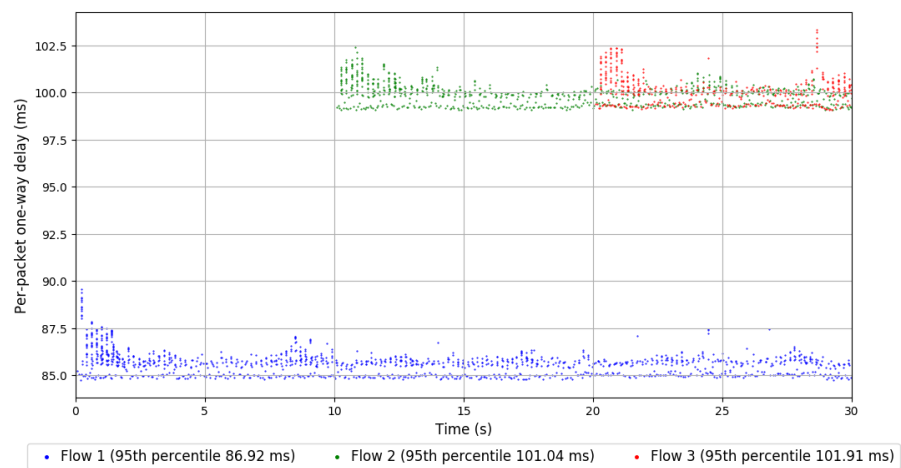
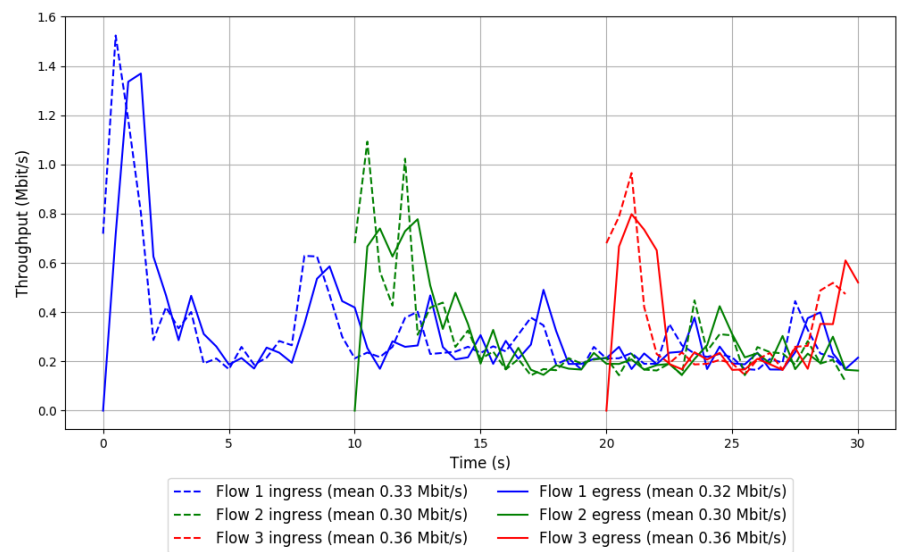


Run 9: Statistics of Sprout

Start at: 2018-07-17 21:02:04
End at: 2018-07-17 21:02:34
Local clock offset: 6.896 ms
Remote clock offset: 0.953 ms

```
# Below is generated by plot.py at 2018-07-17 22:10:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.64 Mbit/s
95th percentile per-packet one-way delay: 100.868 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 86.918 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 101.036 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 101.909 ms
Loss rate: 0.02%
```

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-07-17 21:31:41

End at: 2018-07-17 21:32:11

Local clock offset: 5.387 ms

Remote clock offset: 1.098 ms

Below is generated by plot.py at 2018-07-17 22:10:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.73 Mbit/s

95th percentile per-packet one-way delay: 101.480 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 101.626 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.39 Mbit/s

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

Loss rate: 0.00%

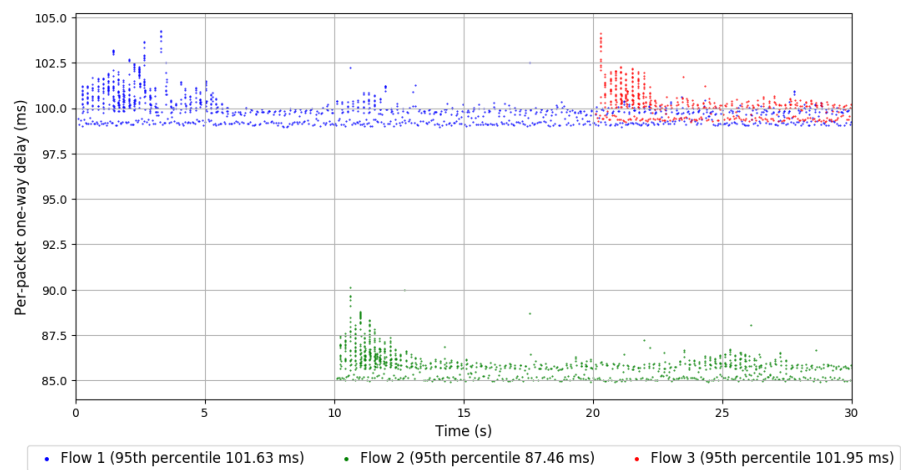
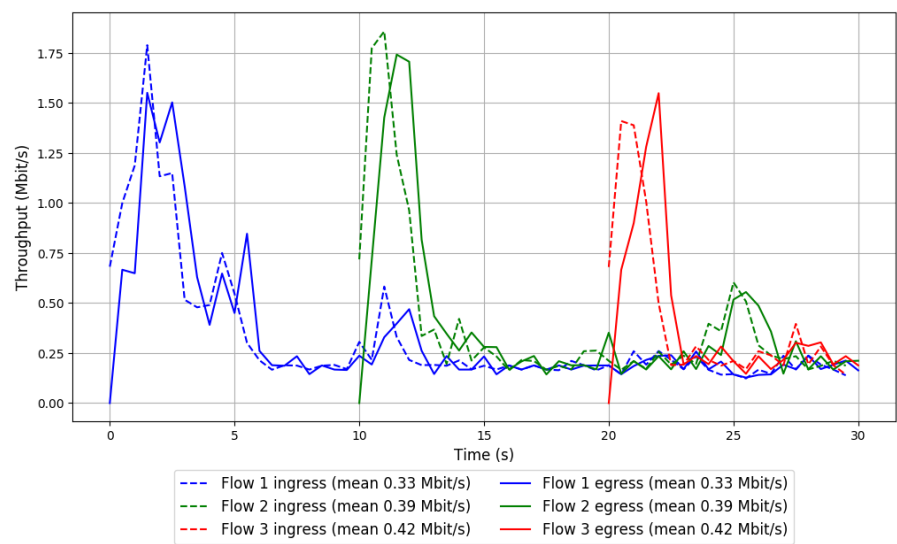
-- Flow 3:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 101.954 ms

Loss rate: 0.02%

Run 10: Report of Sprout — Data Link

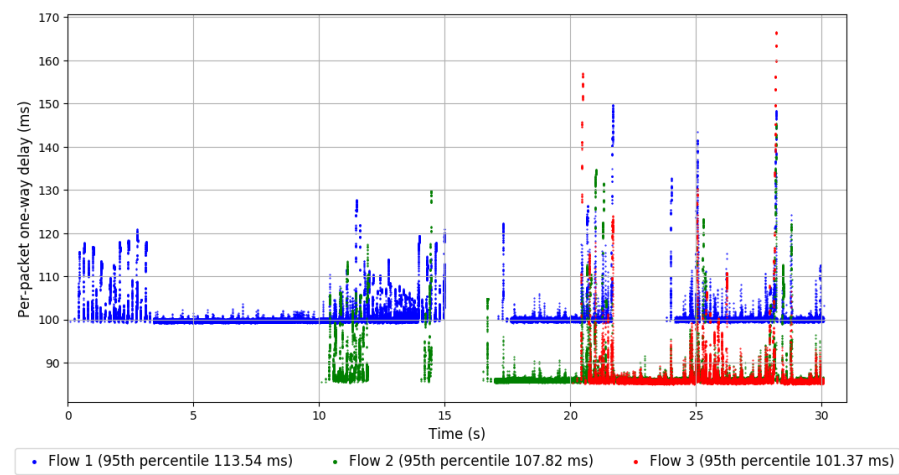
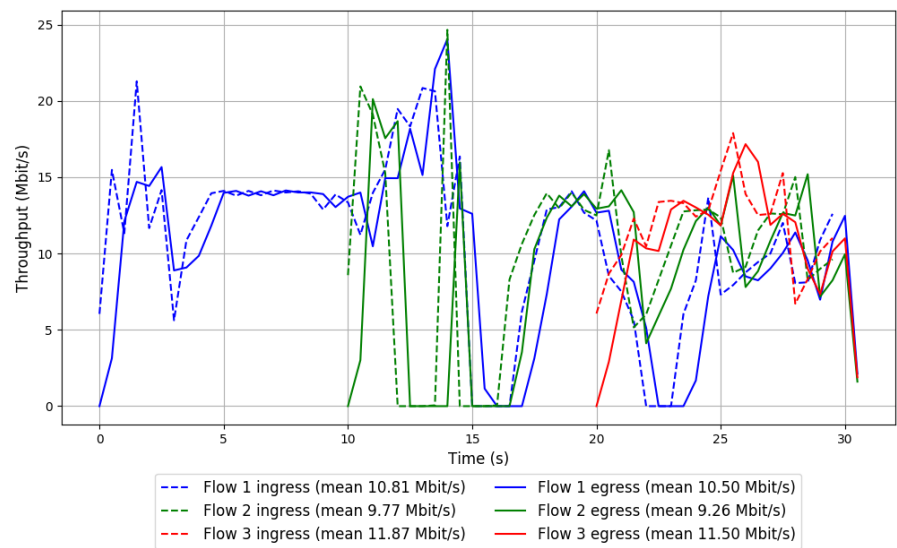


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-07-17 16:45:31
End at: 2018-07-17 16:46:01
Local clock offset: 4.828 ms
Remote clock offset: 0.69 ms

# Below is generated by plot.py at 2018-07-17 22:10:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 20.49 Mbit/s
95th percentile per-packet one-way delay: 110.851 ms
Loss rate: 3.63%
-- Flow 1:
Average throughput: 10.50 Mbit/s
95th percentile per-packet one-way delay: 113.540 ms
Loss rate: 2.88%
-- Flow 2:
Average throughput: 9.26 Mbit/s
95th percentile per-packet one-way delay: 107.823 ms
Loss rate: 5.20%
-- Flow 3:
Average throughput: 11.50 Mbit/s
95th percentile per-packet one-way delay: 101.371 ms
Loss rate: 3.07%
```

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



Run 2: Statistics of TaoVA-100x

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

End at: 2018-07-17 17:17:57

Local clock offset: 6.96 ms

Remote clock offset: 1.104 ms

Below is generated by plot.py at 2018-07-17 22:10:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 22.25 Mbit/s

95th percentile per-packet one-way delay: 109.227 ms

Loss rate: 2.65%

-- Flow 1:

Average throughput: 9.98 Mbit/s

95th percentile per-packet one-way delay: 116.645 ms

Loss rate: 3.35%

-- Flow 2:

Average throughput: 13.99 Mbit/s

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

Loss rate: 1.55%

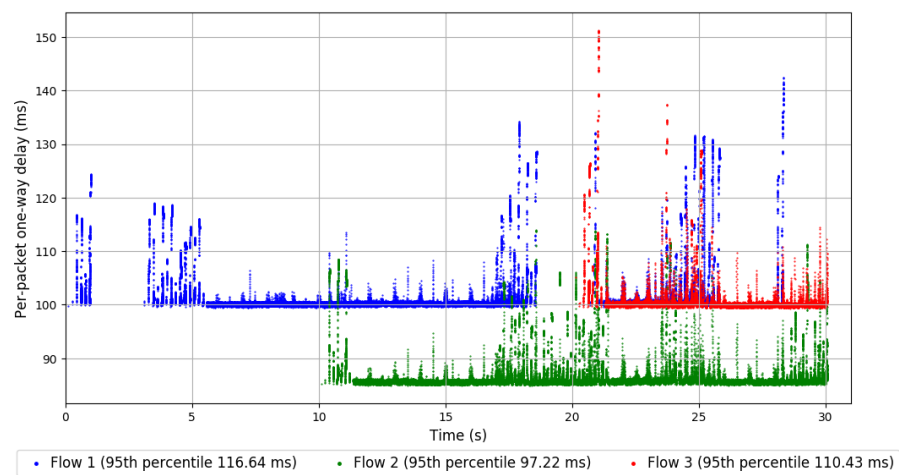
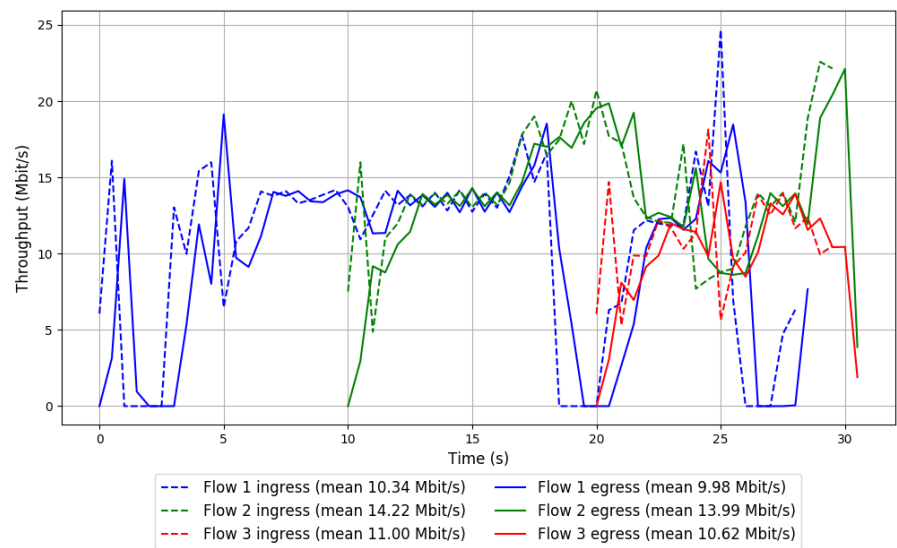
-- Flow 3:

Average throughput: 10.62 Mbit/s

95th percentile per-packet one-way delay: 110.432 ms

Loss rate: 3.62%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-07-17 17:53:13

End at: 2018-07-17 17:53:43

Local clock offset: -0.397 ms

Remote clock offset: 1.332 ms

Below is generated by plot.py at 2018-07-17 22:10:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 21.35 Mbit/s

95th percentile per-packet one-way delay: 107.849 ms

Loss rate: 3.65%

-- Flow 1:

Average throughput: 13.27 Mbit/s

95th percentile per-packet one-way delay: 107.331 ms

Loss rate: 2.28%

-- Flow 2:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 109.882 ms

Loss rate: 6.80%

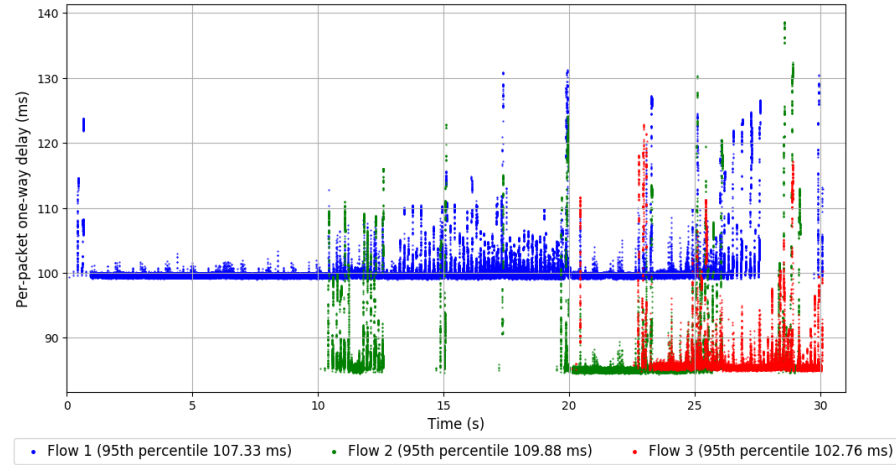
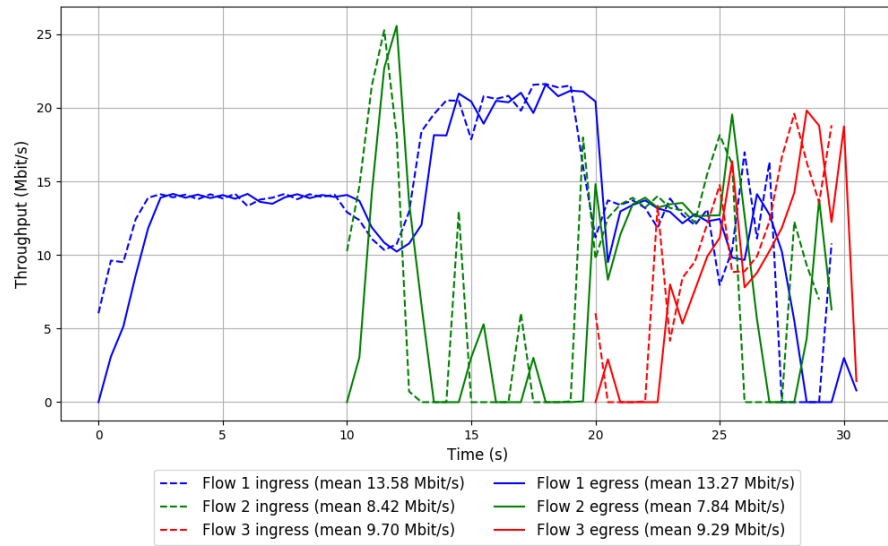
-- Flow 3:

Average throughput: 9.29 Mbit/s

95th percentile per-packet one-way delay: 102.759 ms

Loss rate: 4.18%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-07-17 18:23:14

End at: 2018-07-17 18:23:44

Local clock offset: -5.233 ms

Remote clock offset: 1.29 ms

Below is generated by plot.py at 2018-07-17 22:10:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.61 Mbit/s

95th percentile per-packet one-way delay: 111.424 ms

Loss rate: 3.87%

-- Flow 1:

Average throughput: 8.33 Mbit/s

95th percentile per-packet one-way delay: 116.010 ms

Loss rate: 4.08%

-- Flow 2:

Average throughput: 10.63 Mbit/s

95th percentile per-packet one-way delay: 104.018 ms

Loss rate: 3.56%

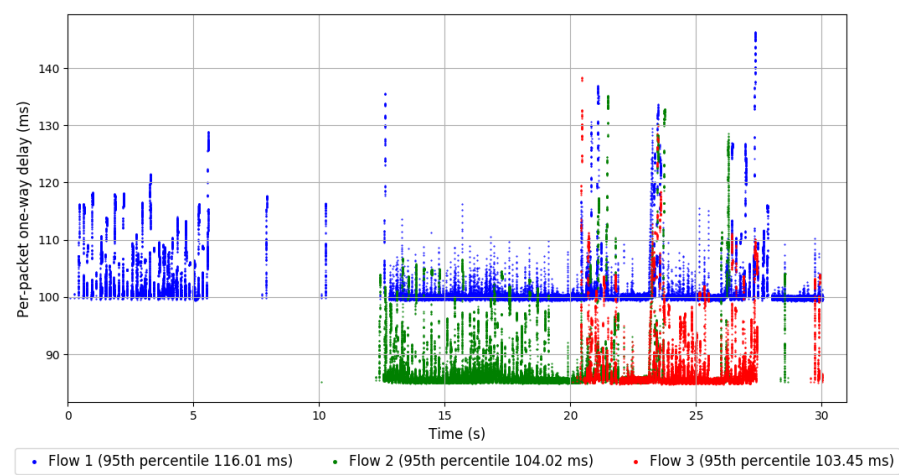
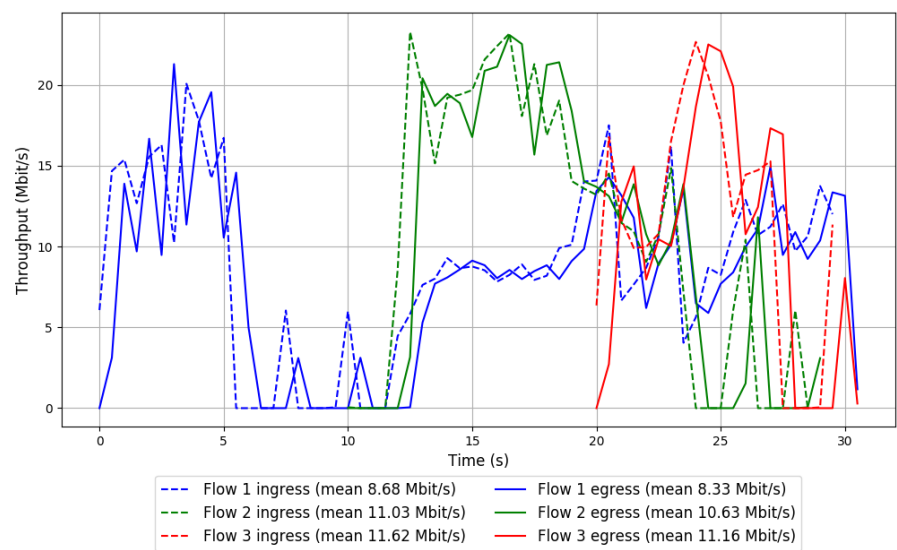
-- Flow 3:

Average throughput: 11.16 Mbit/s

95th percentile per-packet one-way delay: 103.446 ms

Loss rate: 3.96%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-07-17 18:53:34

End at: 2018-07-17 18:54:04

Local clock offset: 3.234 ms

Remote clock offset: 1.342 ms

Below is generated by plot.py at 2018-07-17 22:10:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 22.49 Mbit/s

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

Loss rate: 2.02%

-- Flow 1:

Average throughput: 10.92 Mbit/s

95th percentile per-packet one-way delay: 111.747 ms

Loss rate: 1.75%

-- Flow 2:

Average throughput: 12.32 Mbit/s

95th percentile per-packet one-way delay: 103.202 ms

Loss rate: 1.94%

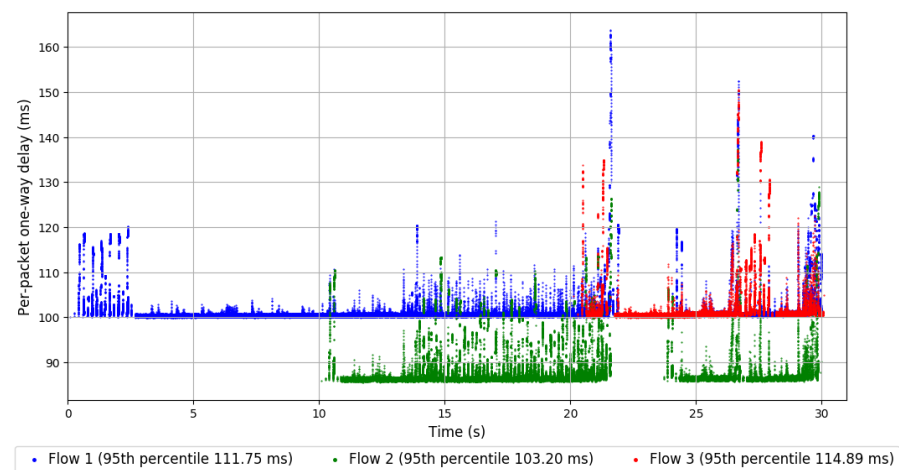
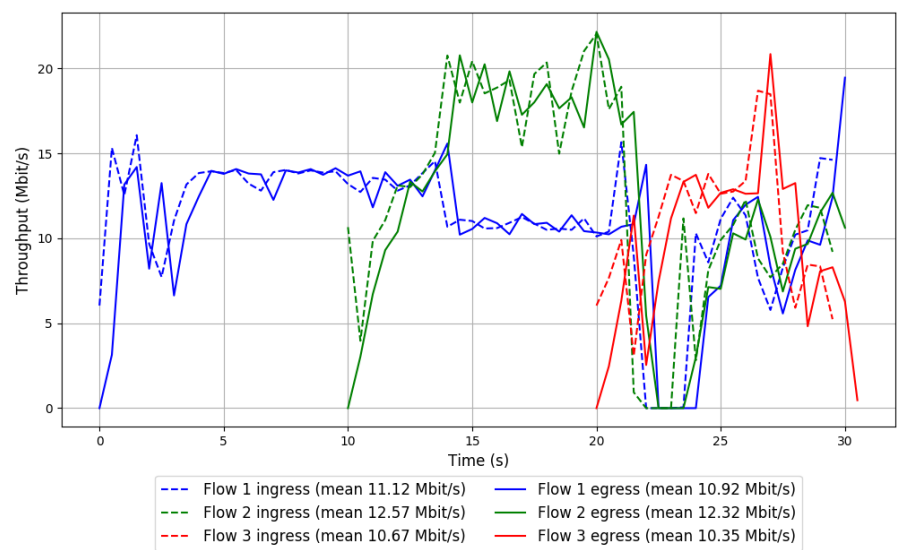
-- Flow 3:

Average throughput: 10.35 Mbit/s

95th percentile per-packet one-way delay: 114.895 ms

Loss rate: 3.07%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-07-17 19:24:48

End at: 2018-07-17 19:25:18

Local clock offset: 5.966 ms

Remote clock offset: 1.249 ms

Below is generated by plot.py at 2018-07-17 22:10:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.94 Mbit/s

95th percentile per-packet one-way delay: 105.324 ms

Loss rate: 4.90%

-- Flow 1:

Average throughput: 10.25 Mbit/s

95th percentile per-packet one-way delay: 102.743 ms

Loss rate: 5.14%

-- Flow 2:

Average throughput: 9.67 Mbit/s

95th percentile per-packet one-way delay: 99.196 ms

Loss rate: 3.38%

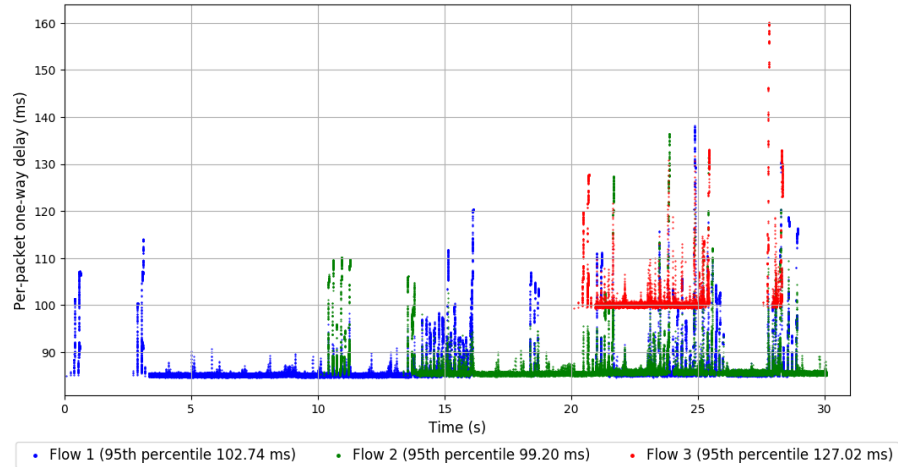
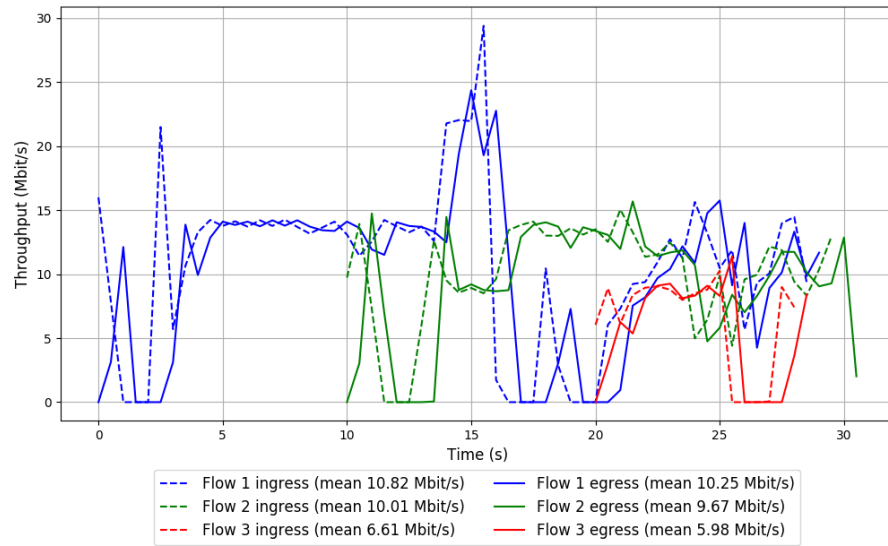
-- Flow 3:

Average throughput: 5.98 Mbit/s

95th percentile per-packet one-way delay: 127.021 ms

Loss rate: 9.14%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-07-17 19:58:47

End at: 2018-07-17 19:59:17

Local clock offset: 4.354 ms

Remote clock offset: 1.133 ms

Below is generated by plot.py at 2018-07-17 22:10:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 22.91 Mbit/s

95th percentile per-packet one-way delay: 112.072 ms

Loss rate: 2.68%

-- Flow 1:

Average throughput: 11.96 Mbit/s

95th percentile per-packet one-way delay: 109.520 ms

Loss rate: 1.39%

-- Flow 2:

Average throughput: 13.57 Mbit/s

95th percentile per-packet one-way delay: 113.094 ms

Loss rate: 2.37%

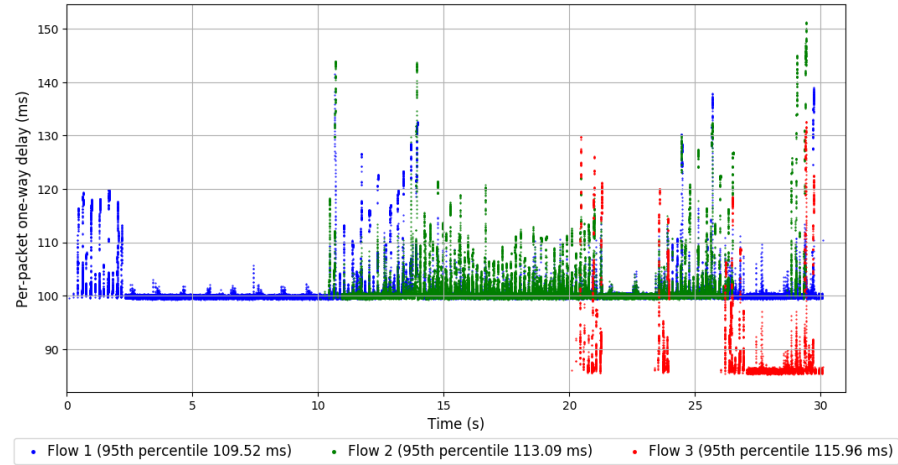
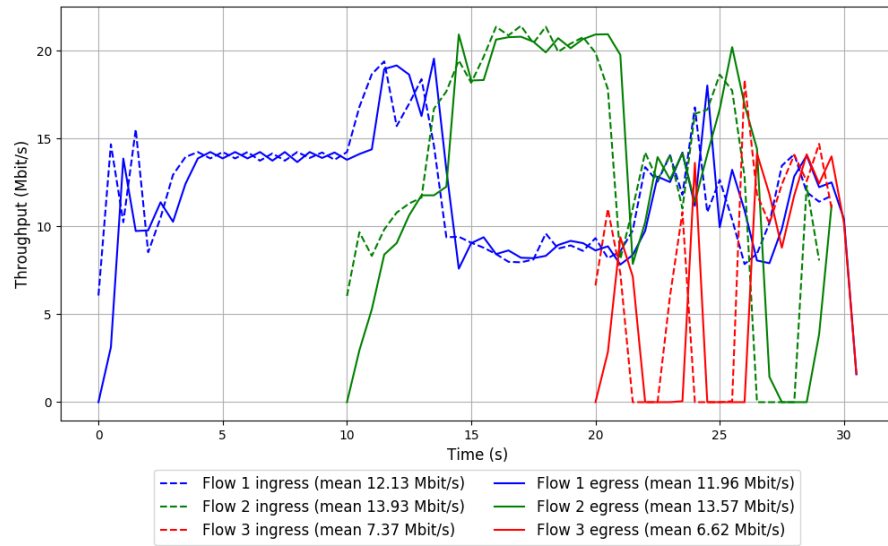
-- Flow 3:

Average throughput: 6.62 Mbit/s

95th percentile per-packet one-way delay: 115.961 ms

Loss rate: 10.21%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-07-17 20:33:43

End at: 2018-07-17 20:34:13

Local clock offset: 5.967 ms

Remote clock offset: 1.0 ms

Below is generated by plot.py at 2018-07-17 22:10:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 23.69 Mbit/s

95th percentile per-packet one-way delay: 115.702 ms

Loss rate: 2.34%

-- Flow 1:

Average throughput: 12.60 Mbit/s

95th percentile per-packet one-way delay: 111.894 ms

Loss rate: 1.45%

-- Flow 2:

Average throughput: 12.65 Mbit/s

95th percentile per-packet one-way delay: 117.005 ms

Loss rate: 2.16%

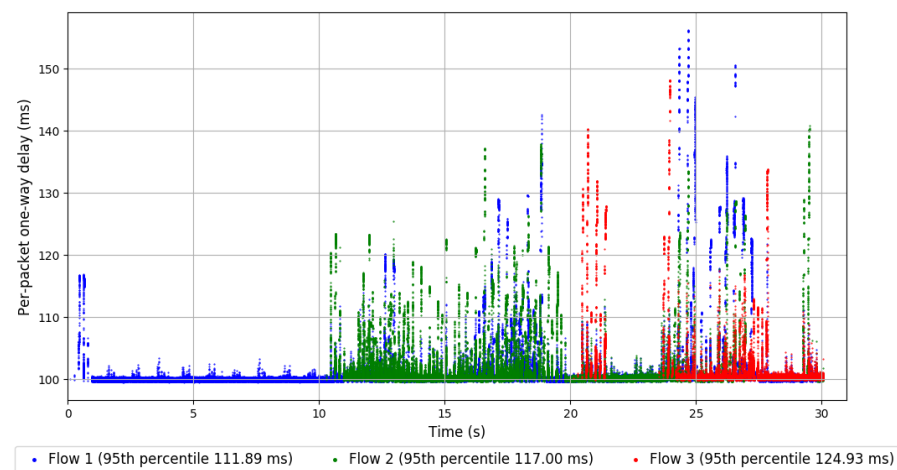
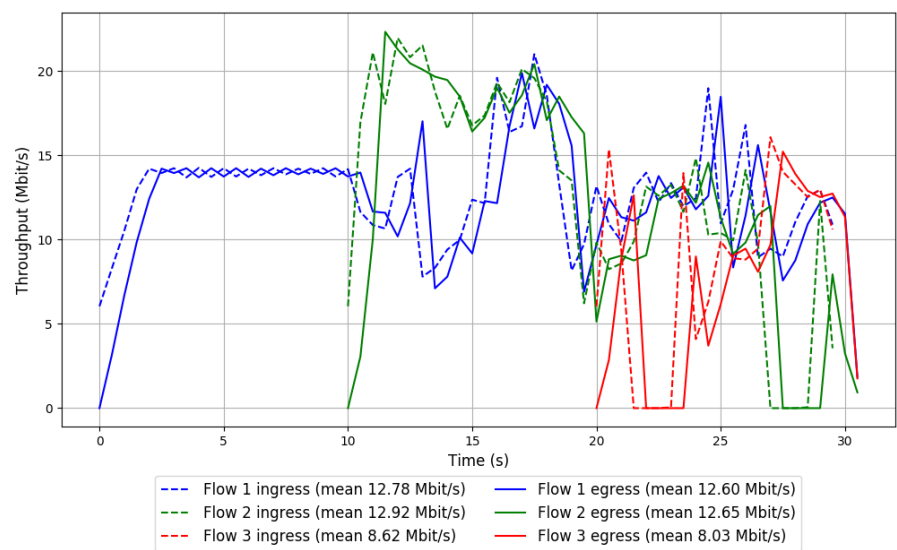
-- Flow 3:

Average throughput: 8.03 Mbit/s

95th percentile per-packet one-way delay: 124.927 ms

Loss rate: 6.86%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-07-17 21:06:46

End at: 2018-07-17 21:07:16

Local clock offset: 6.944 ms

Remote clock offset: 1.051 ms

Below is generated by plot.py at 2018-07-17 22:10:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 22.66 Mbit/s

95th percentile per-packet one-way delay: 107.008 ms

Loss rate: 2.99%

-- Flow 1:

Average throughput: 12.12 Mbit/s

95th percentile per-packet one-way delay: 101.753 ms

Loss rate: 2.15%

-- Flow 2:

Average throughput: 11.43 Mbit/s

95th percentile per-packet one-way delay: 104.512 ms

Loss rate: 2.73%

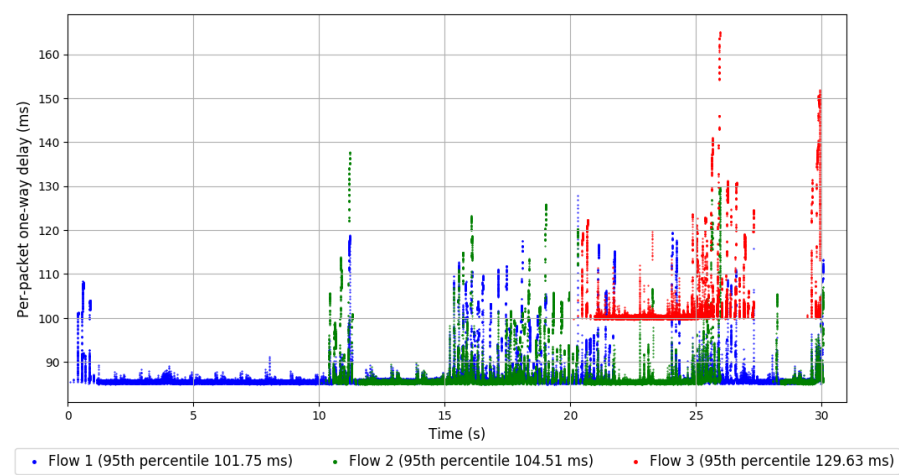
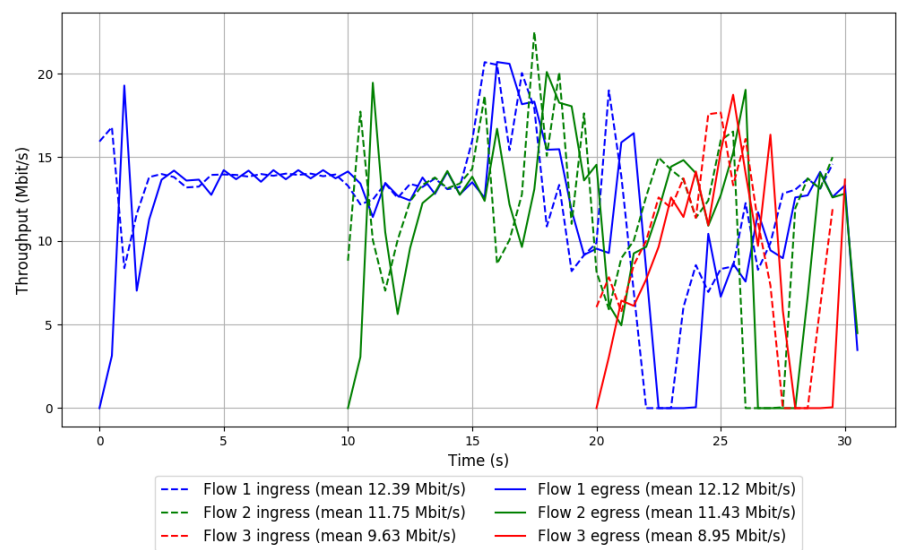
-- Flow 3:

Average throughput: 8.95 Mbit/s

95th percentile per-packet one-way delay: 129.626 ms

Loss rate: 6.94%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-07-17 21:36:27

End at: 2018-07-17 21:36:57

Local clock offset: 5.475 ms

Remote clock offset: 1.151 ms

Below is generated by plot.py at 2018-07-17 22:10:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 23.63 Mbit/s

95th percentile per-packet one-way delay: 109.267 ms

Loss rate: 1.95%

-- Flow 1:

Average throughput: 12.64 Mbit/s

95th percentile per-packet one-way delay: 105.220 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 11.99 Mbit/s

95th percentile per-packet one-way delay: 116.350 ms

Loss rate: 1.58%

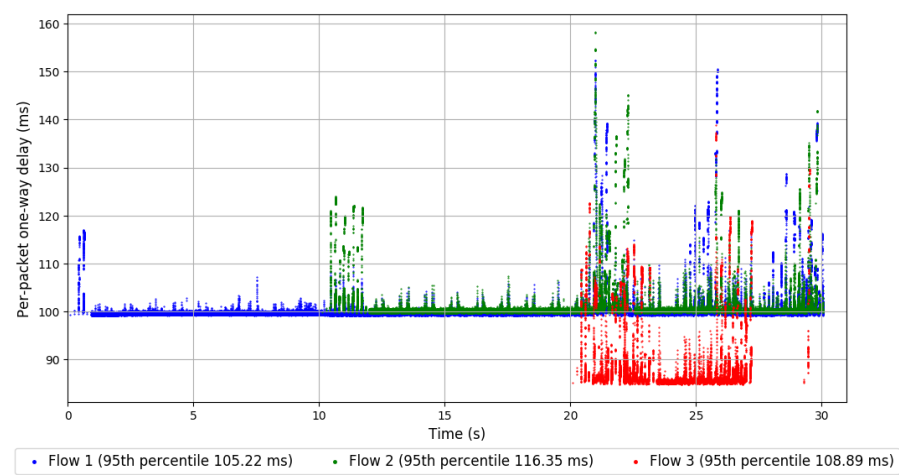
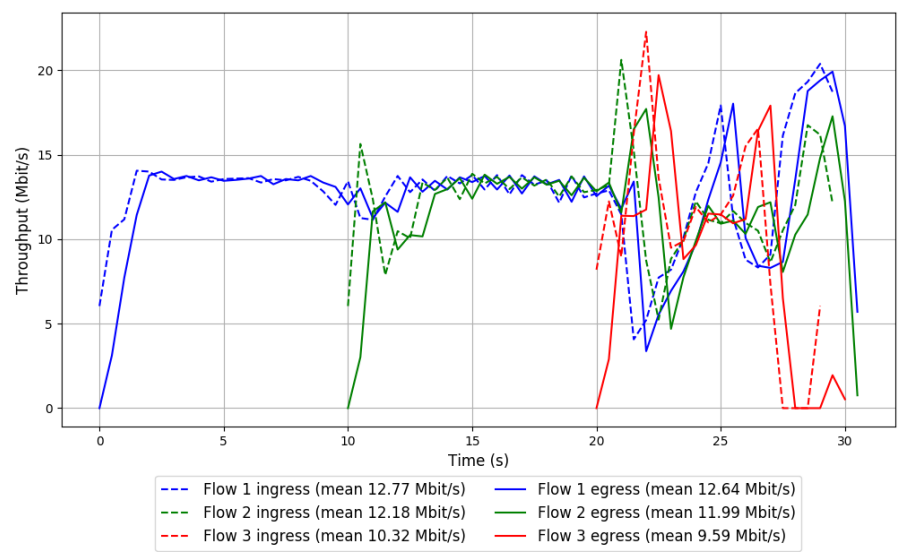
-- Flow 3:

Average throughput: 9.59 Mbit/s

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

Loss rate: 6.67%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-07-17 16:36:51

End at: 2018-07-17 16:37:21

Local clock offset: 3.662 ms

Remote clock offset: 0.62 ms

Below is generated by plot.py at 2018-07-17 22:10:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.78 Mbit/s

95th percentile per-packet one-way delay: 101.784 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 8.41 Mbit/s

95th percentile per-packet one-way delay: 104.313 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 5.36 Mbit/s

95th percentile per-packet one-way delay: 91.811 ms

Loss rate: 1.12%

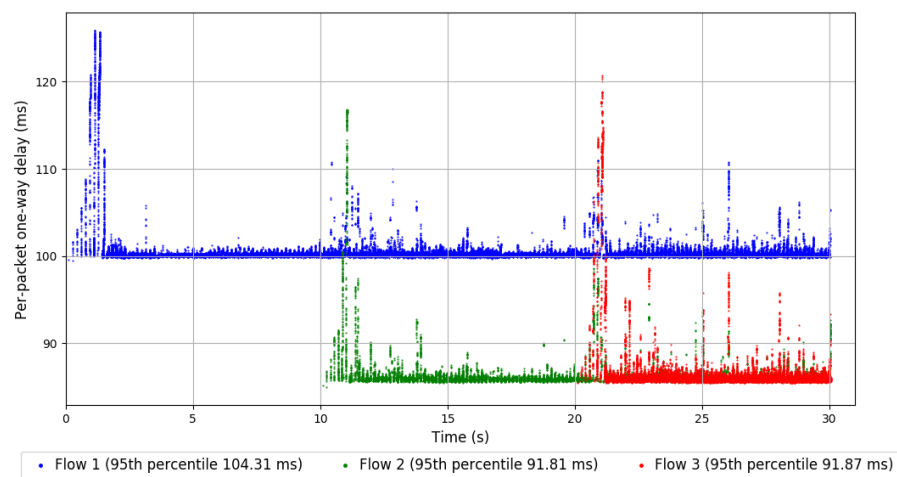
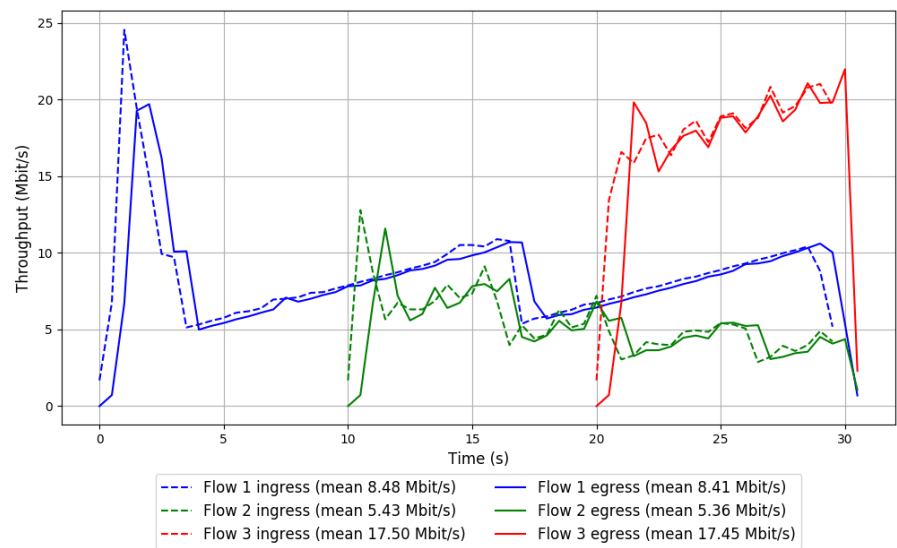
-- Flow 3:

Average throughput: 17.45 Mbit/s

95th percentile per-packet one-way delay: 91.869 ms

Loss rate: 0.30%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-07-17 17:08:40

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

Local clock offset: 6.72 ms

Remote clock offset: 1.013 ms

Below is generated by plot.py at 2018-07-17 22:10:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.47 Mbit/s

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

Loss rate: 0.36%

-- Flow 1:

Average throughput: 4.97 Mbit/s

95th percentile per-packet one-way delay: 87.578 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 12.11 Mbit/s

95th percentile per-packet one-way delay: 88.541 ms

Loss rate: 0.53%

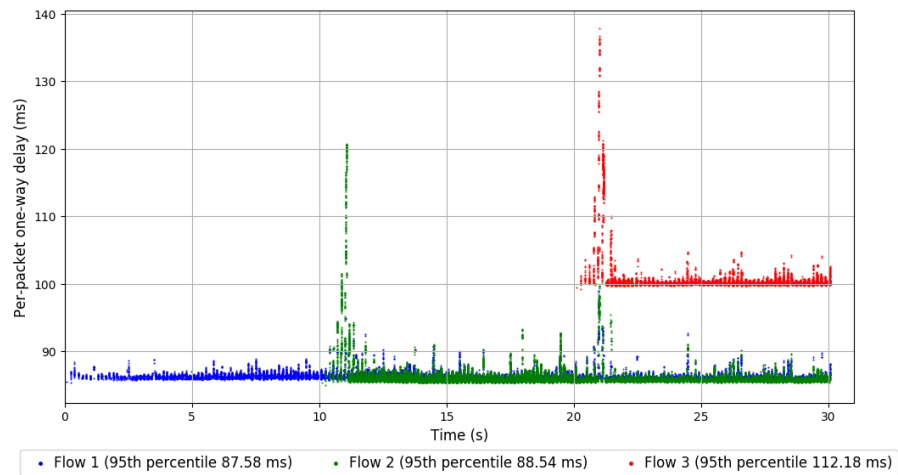
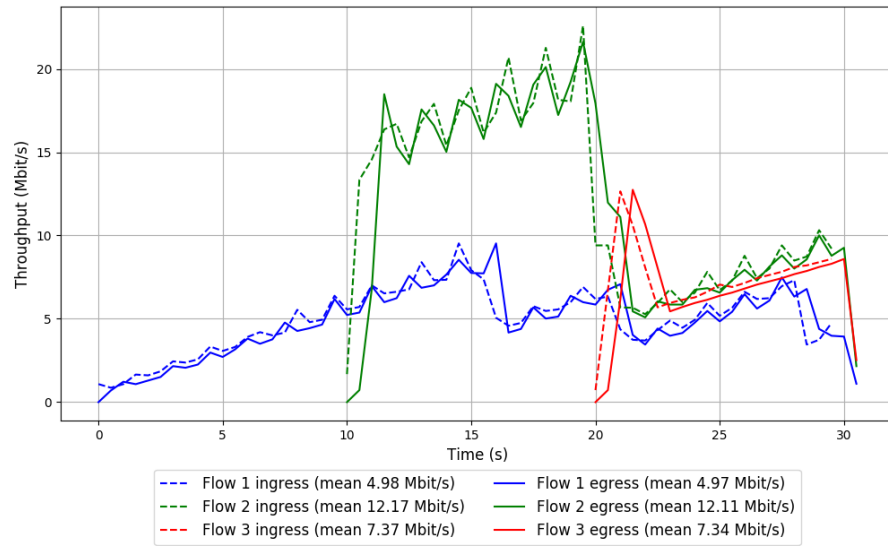
-- Flow 3:

Average throughput: 7.34 Mbit/s

95th percentile per-packet one-way delay: 112.178 ms

Loss rate: 0.39%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-07-17 17:44:50

End at: 2018-07-17 17:45:20

Local clock offset: 4.025 ms

Remote clock offset: 1.288 ms

Below is generated by plot.py at 2018-07-17 22:10:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 21.92 Mbit/s

95th percentile per-packet one-way delay: 101.542 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 8.57 Mbit/s

95th percentile per-packet one-way delay: 102.628 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 16.40 Mbit/s

95th percentile per-packet one-way delay: 88.032 ms

Loss rate: 0.16%

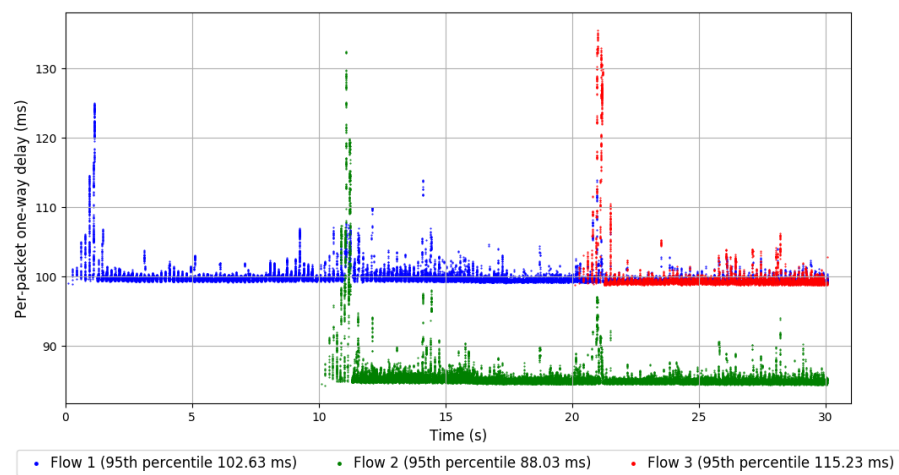
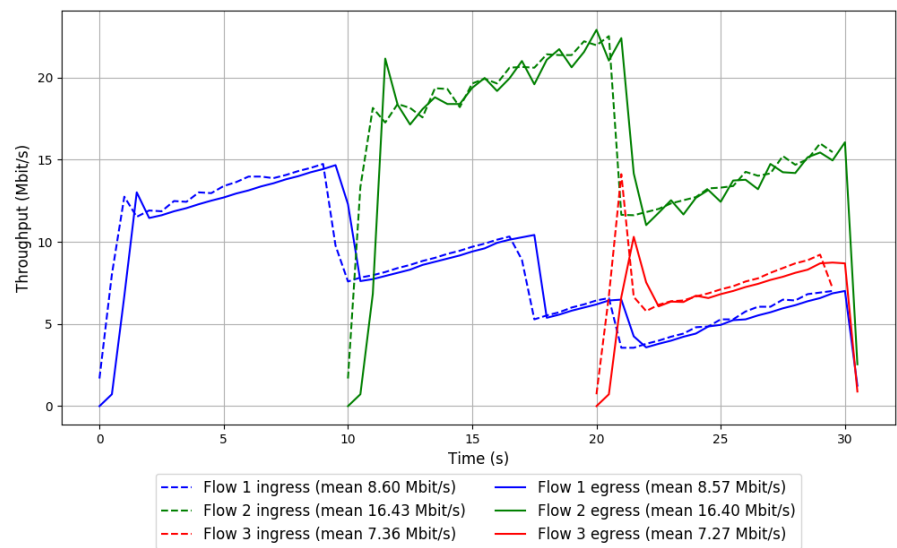
-- Flow 3:

Average throughput: 7.27 Mbit/s

95th percentile per-packet one-way delay: 115.226 ms

Loss rate: 1.36%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-07-17 18:15:09

End at: 2018-07-17 18:15:39

Local clock offset: -4.4 ms

Remote clock offset: 1.349 ms

Below is generated by plot.py at 2018-07-17 22:10:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.08 Mbit/s

95th percentile per-packet one-way delay: 102.565 ms

Loss rate: 2.24%

-- Flow 1:

Average throughput: 5.56 Mbit/s

95th percentile per-packet one-way delay: 106.022 ms

Loss rate: 1.71%

-- Flow 2:

Average throughput: 7.56 Mbit/s

95th percentile per-packet one-way delay: 96.032 ms

Loss rate: 2.64%

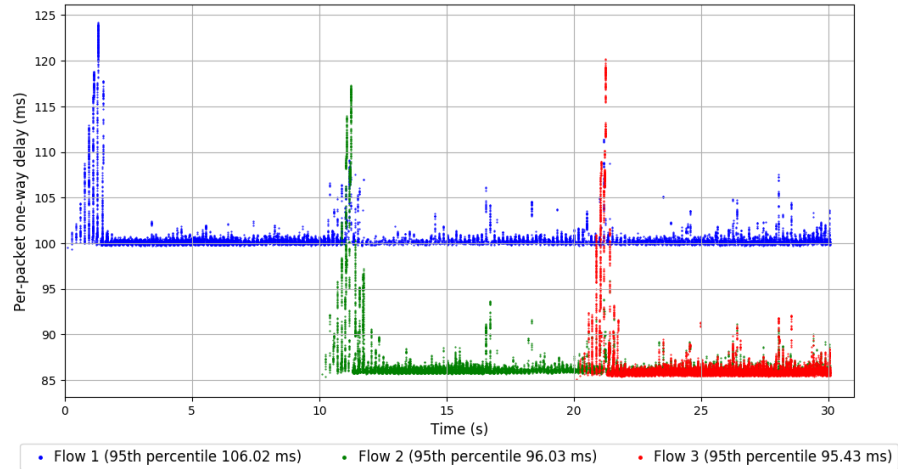
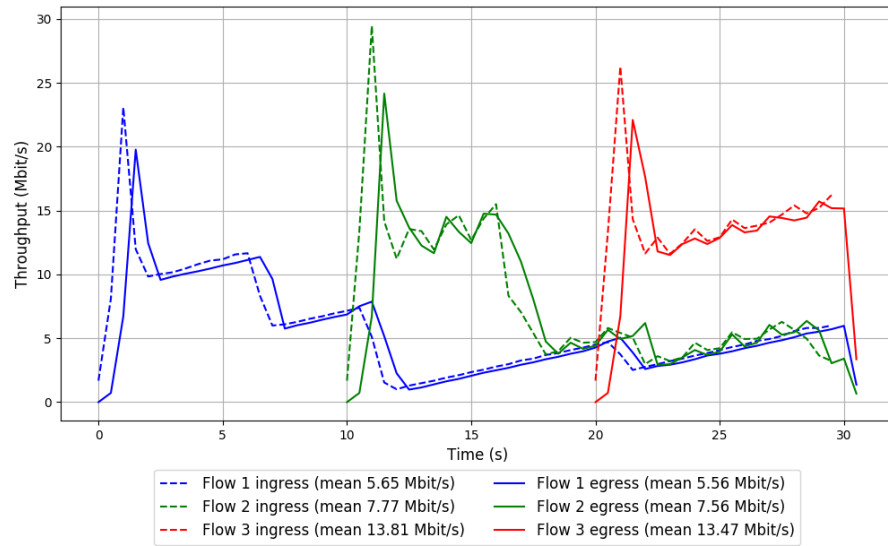
-- Flow 3:

Average throughput: 13.47 Mbit/s

95th percentile per-packet one-way delay: 95.428 ms

Loss rate: 2.45%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-07-17 18:45:15

End at: 2018-07-17 18:45:45

Local clock offset: -1.84 ms

Remote clock offset: 1.42 ms

Below is generated by plot.py at 2018-07-17 22:10:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.69 Mbit/s

95th percentile per-packet one-way delay: 103.146 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 6.00 Mbit/s

95th percentile per-packet one-way delay: 103.852 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 6.13 Mbit/s

95th percentile per-packet one-way delay: 89.858 ms

Loss rate: 0.41%

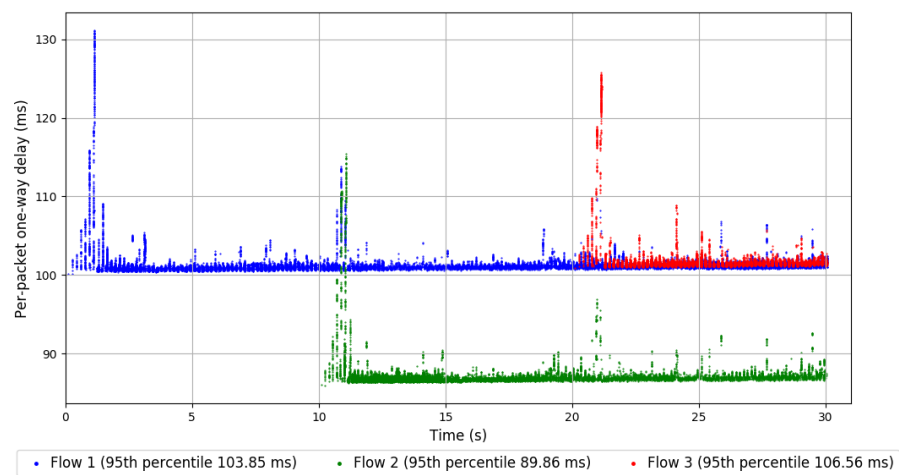
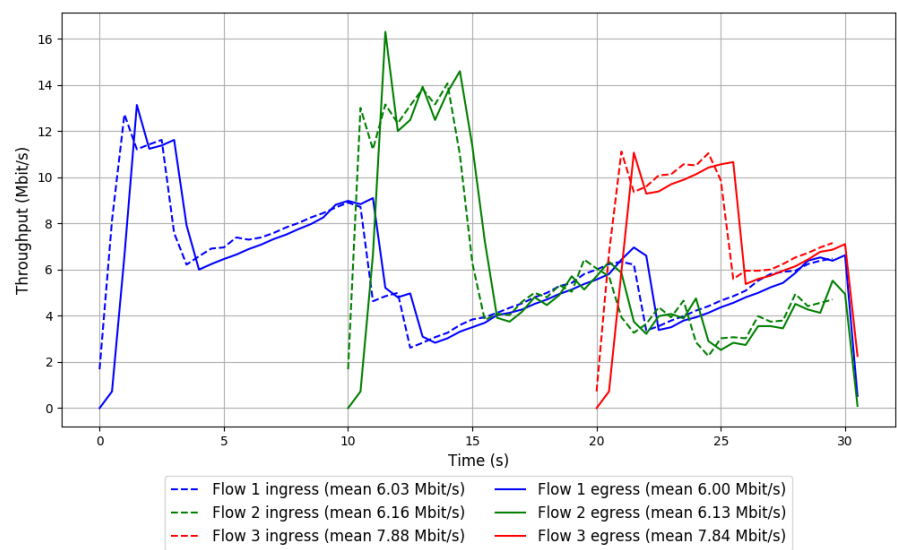
-- Flow 3:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 106.564 ms

Loss rate: 0.54%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-07-17 19:16:01

End at: 2018-07-17 19:16:31

Local clock offset: 6.611 ms

Remote clock offset: 1.347 ms

Below is generated by plot.py at 2018-07-17 22:10:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.13 Mbit/s

95th percentile per-packet one-way delay: 104.115 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 105.960 ms

Loss rate: 0.92%

-- Flow 2:

Average throughput: 12.27 Mbit/s

95th percentile per-packet one-way delay: 91.472 ms

Loss rate: 0.26%

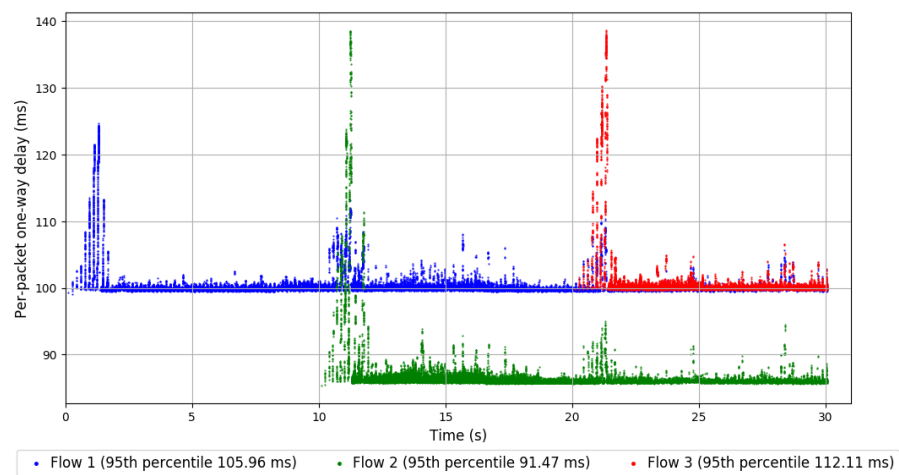
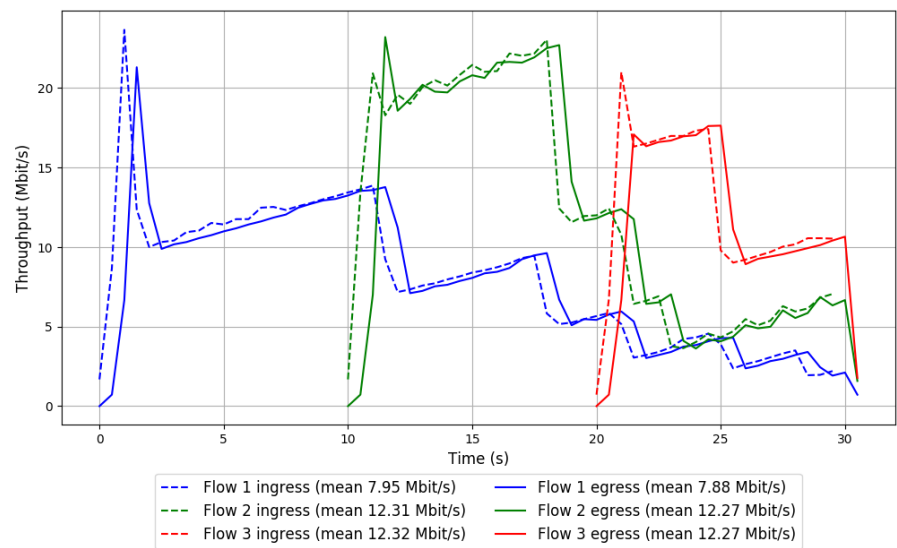
-- Flow 3:

Average throughput: 12.27 Mbit/s

95th percentile per-packet one-way delay: 112.106 ms

Loss rate: 0.61%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-07-17 19:49:21

End at: 2018-07-17 19:49:51

Local clock offset: 4.726 ms

Remote clock offset: 1.111 ms

Below is generated by plot.py at 2018-07-17 22:11:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.69 Mbit/s

95th percentile per-packet one-way delay: 104.120 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 5.20 Mbit/s

95th percentile per-packet one-way delay: 109.536 ms

Loss rate: 1.72%

-- Flow 2:

Average throughput: 17.65 Mbit/s

95th percentile per-packet one-way delay: 91.536 ms

Loss rate: 0.58%

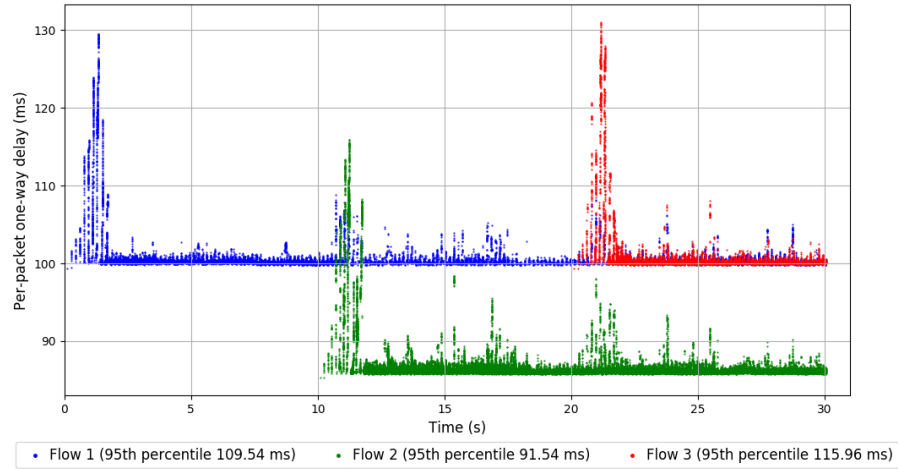
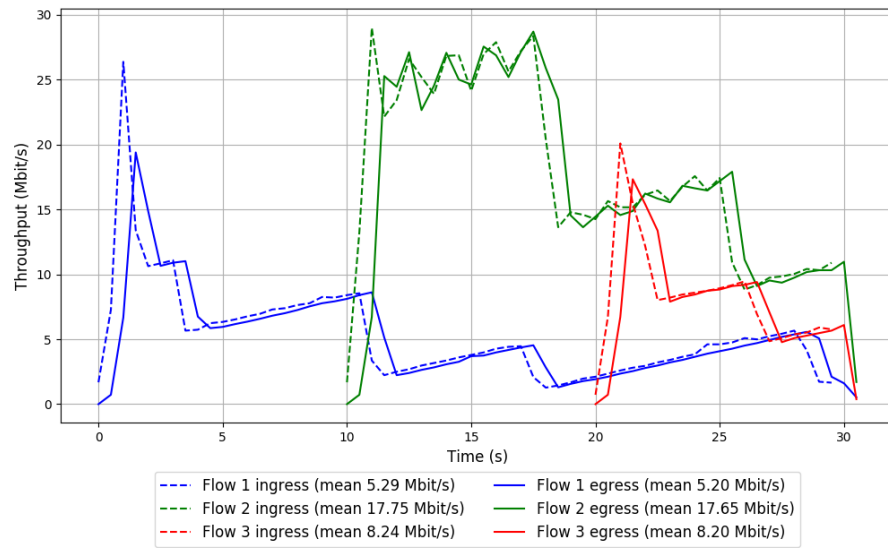
-- Flow 3:

Average throughput: 8.20 Mbit/s

95th percentile per-packet one-way delay: 115.964 ms

Loss rate: 0.57%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-07-17 20:24:07

End at: 2018-07-17 20:24:37

Local clock offset: 5.57 ms

Remote clock offset: 1.103 ms

Below is generated by plot.py at 2018-07-17 22:11:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.47 Mbit/s

95th percentile per-packet one-way delay: 104.768 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 7.93 Mbit/s

95th percentile per-packet one-way delay: 91.254 ms

Loss rate: 1.38%

-- Flow 2:

Average throughput: 13.82 Mbit/s

95th percentile per-packet one-way delay: 106.120 ms

Loss rate: 0.67%

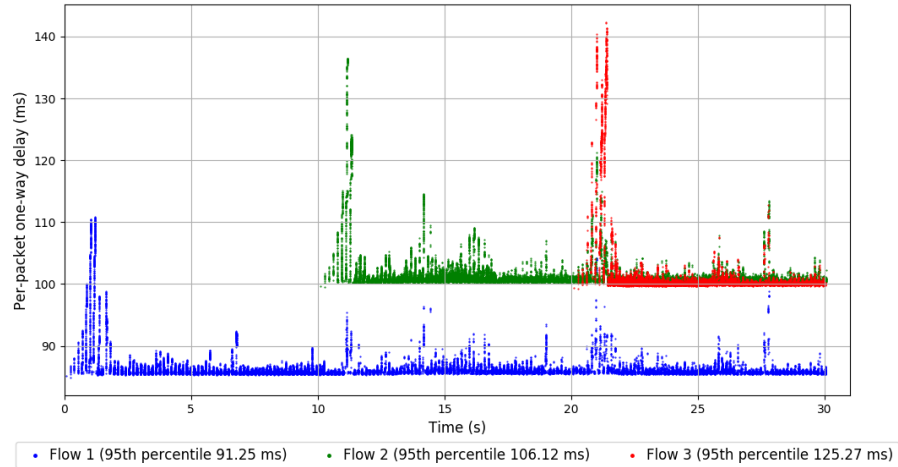
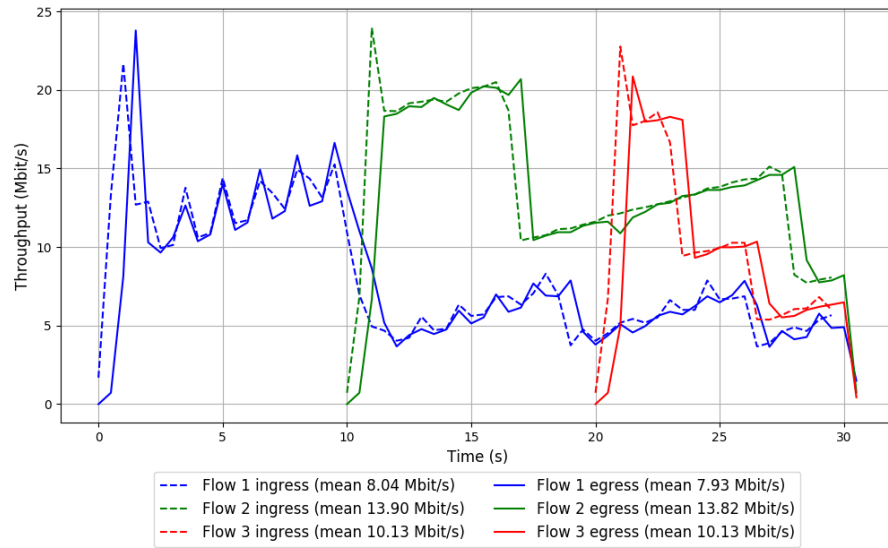
-- Flow 3:

Average throughput: 10.13 Mbit/s

95th percentile per-packet one-way delay: 125.265 ms

Loss rate: 0.37%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-07-17 20:58:19

End at: 2018-07-17 20:58:49

Local clock offset: 6.677 ms

Remote clock offset: 1.044 ms

Below is generated by plot.py at 2018-07-17 22:11:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.48 Mbit/s

95th percentile per-packet one-way delay: 101.040 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 9.42 Mbit/s

95th percentile per-packet one-way delay: 88.122 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 7.52 Mbit/s

95th percentile per-packet one-way delay: 89.612 ms

Loss rate: 0.85%

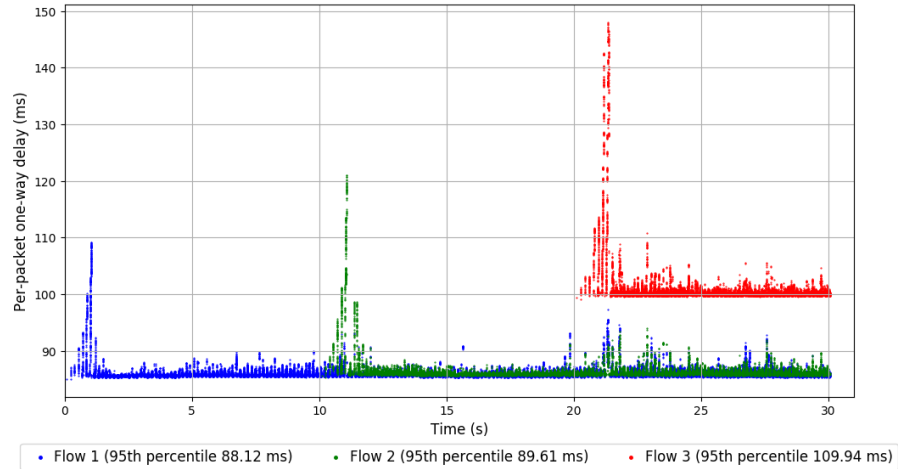
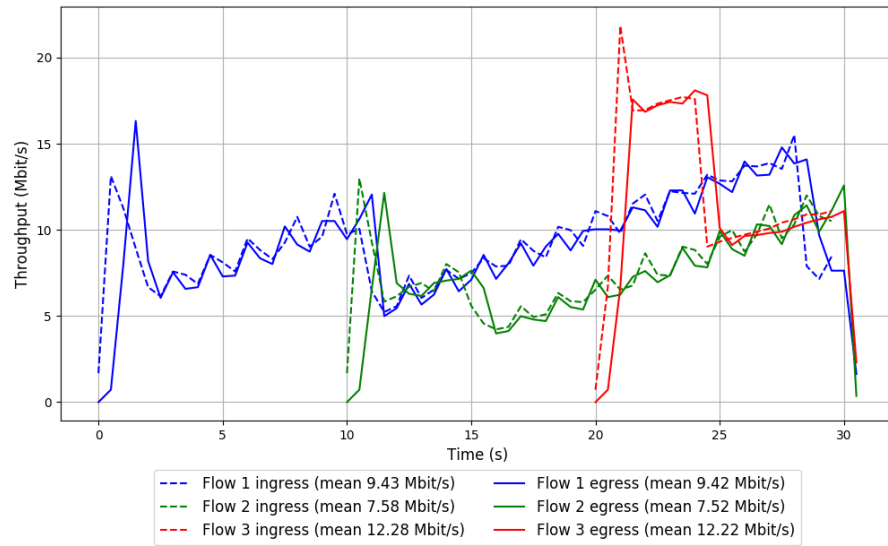
-- Flow 3:

Average throughput: 12.22 Mbit/s

95th percentile per-packet one-way delay: 109.940 ms

Loss rate: 0.59%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-07-17 21:28:04

End at: 2018-07-17 21:28:34

Local clock offset: 5.625 ms

Remote clock offset: 1.1 ms

Below is generated by plot.py at 2018-07-17 22:11:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 32.21 Mbit/s

95th percentile per-packet one-way delay: 102.054 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 16.45 Mbit/s

95th percentile per-packet one-way delay: 103.167 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 19.58 Mbit/s

95th percentile per-packet one-way delay: 91.673 ms

Loss rate: 0.14%

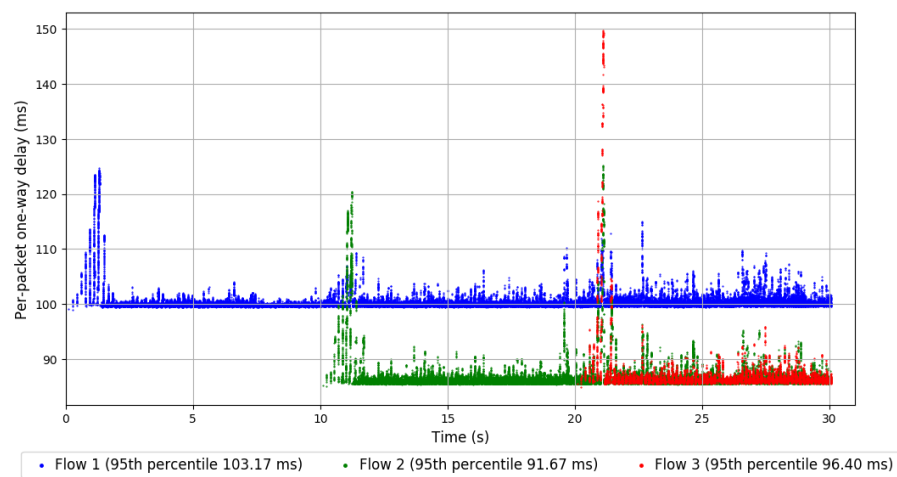
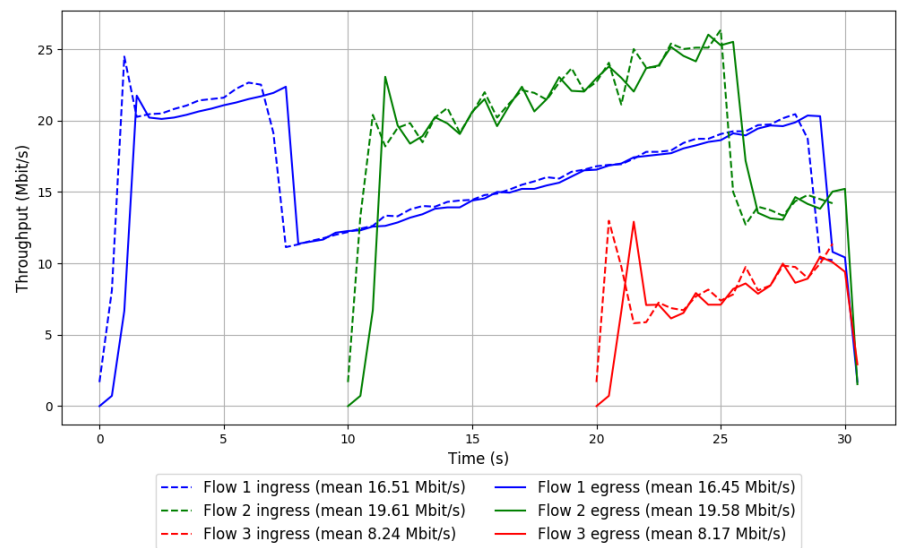
-- Flow 3:

Average throughput: 8.17 Mbit/s

95th percentile per-packet one-way delay: 96.398 ms

Loss rate: 0.86%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-07-17 16:47:19

End at: 2018-07-17 16:47:49

Local clock offset: 4.921 ms

Remote clock offset: 0.678 ms

Below is generated by plot.py at 2018-07-17 22:11:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 25.25 Mbit/s

95th percentile per-packet one-way delay: 175.766 ms

Loss rate: 89.72%

-- Flow 1:

Average throughput: 18.10 Mbit/s

95th percentile per-packet one-way delay: 173.873 ms

Loss rate: 91.08%

-- Flow 2:

Average throughput: 6.59 Mbit/s

95th percentile per-packet one-way delay: 186.229 ms

Loss rate: 89.44%

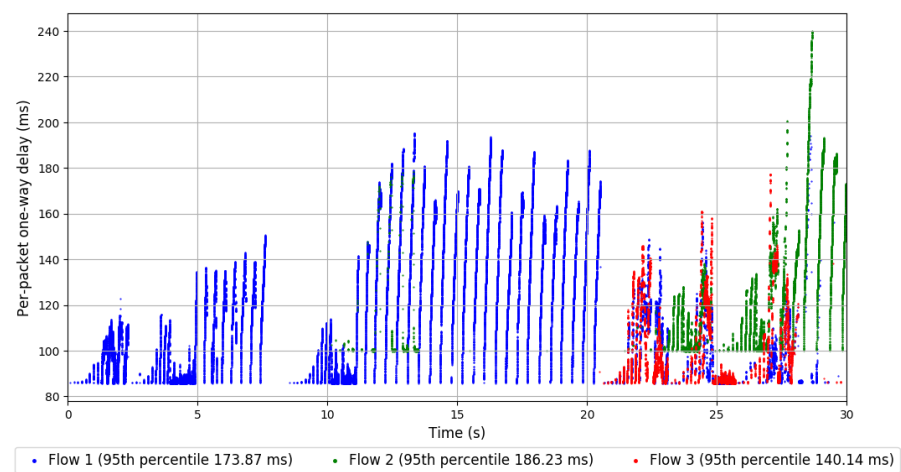
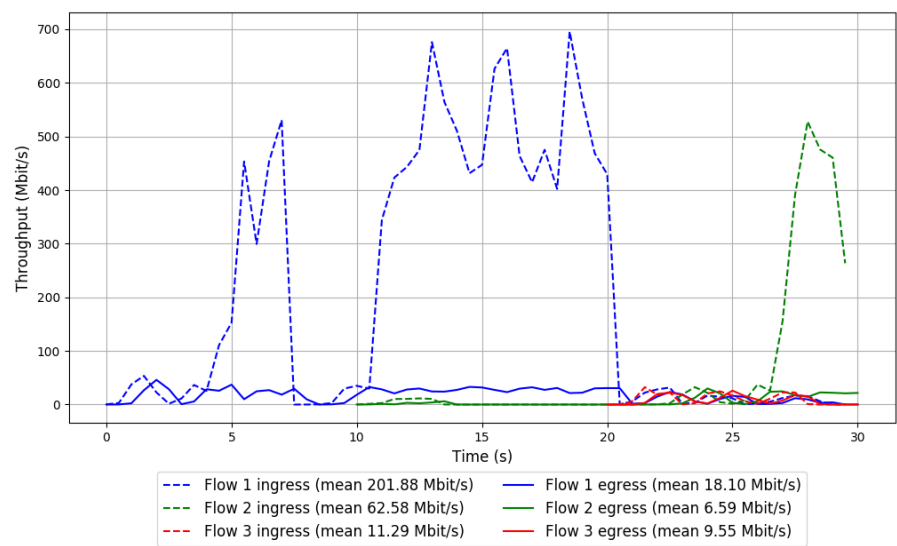
-- Flow 3:

Average throughput: 9.55 Mbit/s

95th percentile per-packet one-way delay: 140.138 ms

Loss rate: 15.44%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-07-17 17:19:20

End at: 2018-07-17 17:19:50

Local clock offset: 6.988 ms

Remote clock offset: 1.066 ms

Below is generated by plot.py at 2018-07-17 22:12:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 28.60 Mbit/s

95th percentile per-packet one-way delay: 193.780 ms

Loss rate: 90.43%

-- Flow 1:

Average throughput: 20.26 Mbit/s

95th percentile per-packet one-way delay: 193.637 ms

Loss rate: 92.46%

-- Flow 2:

Average throughput: 9.41 Mbit/s

95th percentile per-packet one-way delay: 151.022 ms

Loss rate: 34.51%

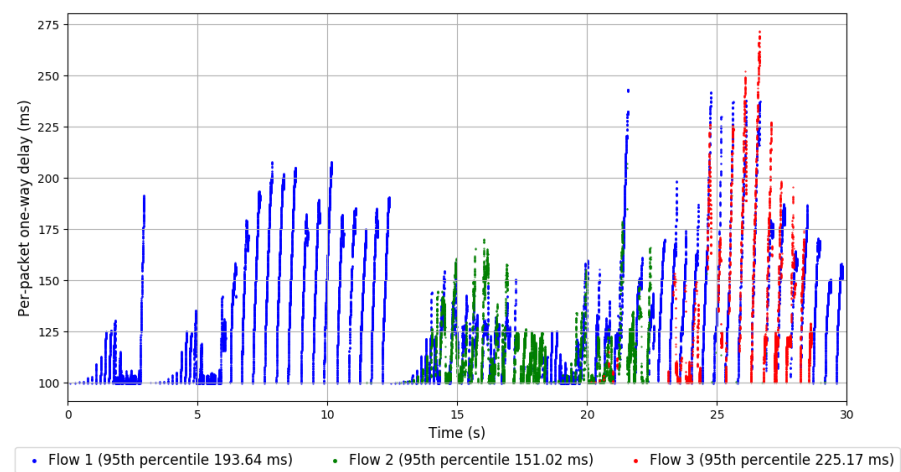
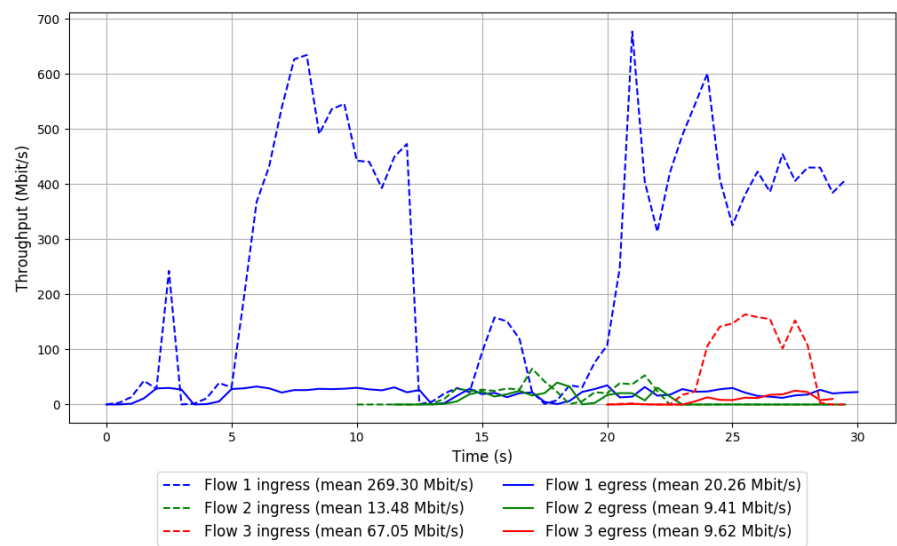
-- Flow 3:

Average throughput: 9.62 Mbit/s

95th percentile per-packet one-way delay: 225.173 ms

Loss rate: 87.27%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-07-17 17:55:00

End at: 2018-07-17 17:55:30

Local clock offset: -1.03 ms

Remote clock offset: 1.295 ms

Below is generated by plot.py at 2018-07-17 22:12:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 26.49 Mbit/s

95th percentile per-packet one-way delay: 143.415 ms

Loss rate: 82.65%

-- Flow 1:

Average throughput: 16.42 Mbit/s

95th percentile per-packet one-way delay: 140.859 ms

Loss rate: 80.47%

-- Flow 2:

Average throughput: 11.65 Mbit/s

95th percentile per-packet one-way delay: 137.952 ms

Loss rate: 84.53%

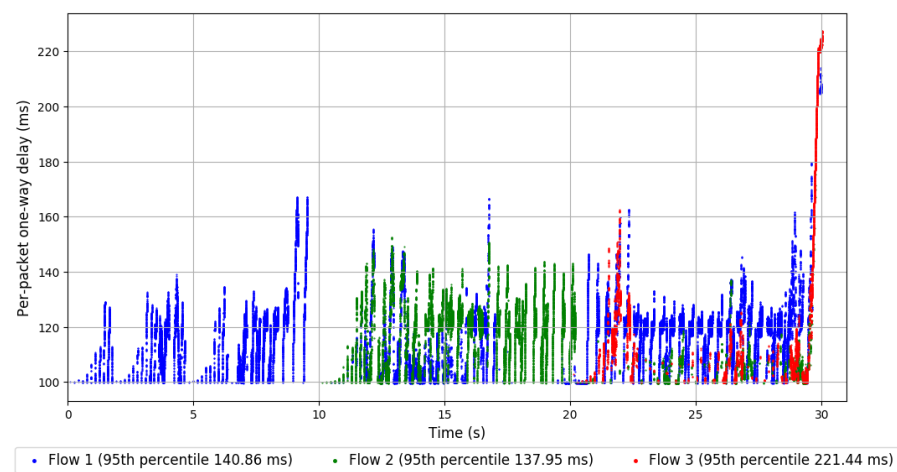
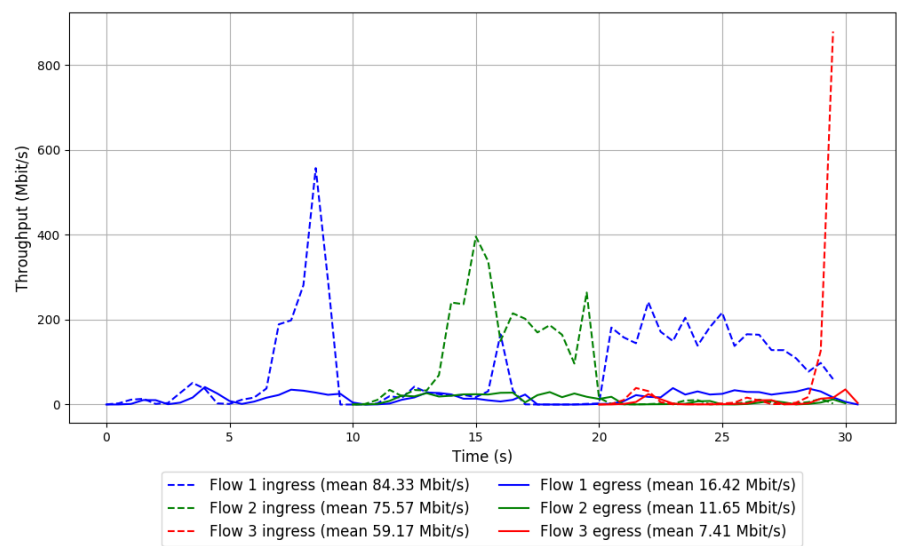
-- Flow 3:

Average throughput: 7.41 Mbit/s

95th percentile per-packet one-way delay: 221.441 ms

Loss rate: 87.32%

Run 3: Report of Verus — Data Link

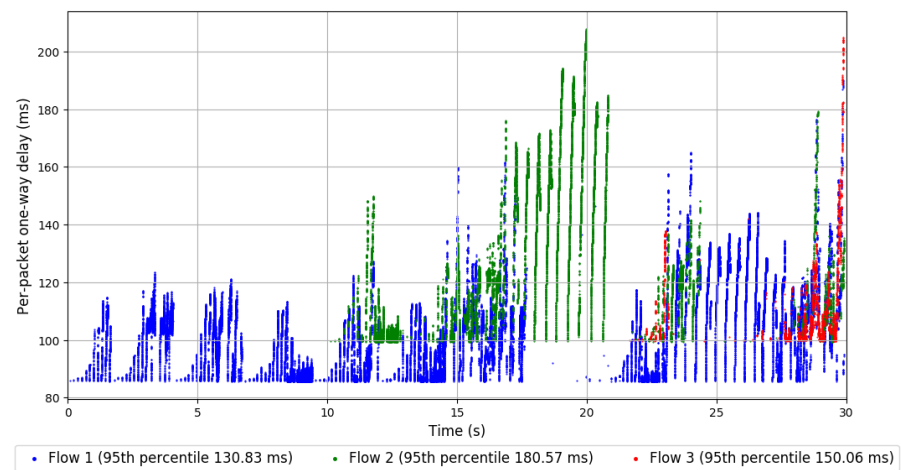
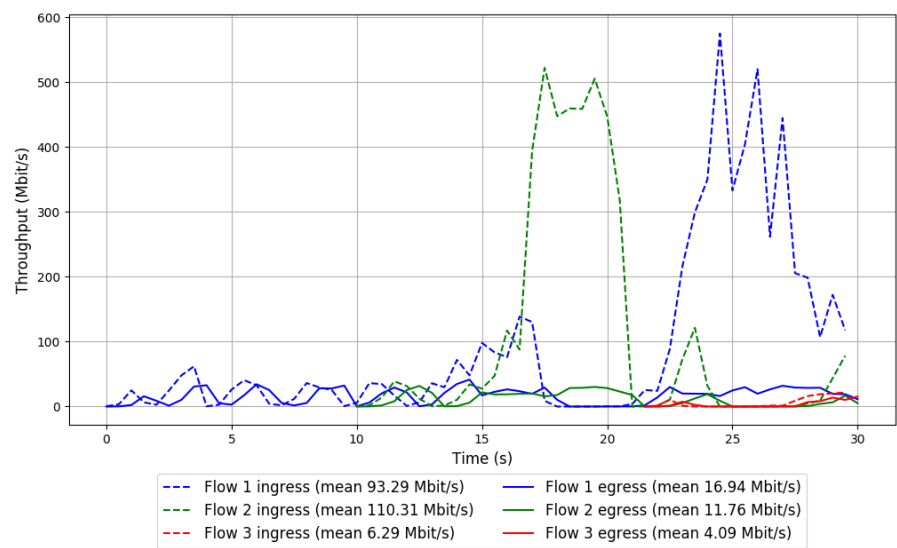


Run 4: Statistics of Verus

Start at: 2018-07-17 18:25:00
End at: 2018-07-17 18:25:30
Local clock offset: -5.479 ms
Remote clock offset: 1.254 ms

Below is generated by plot.py at 2018-07-17 22:12:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 25.86 Mbit/s
95th percentile per-packet one-way delay: 160.685 ms
Loss rate: 84.60%
-- Flow 1:
Average throughput: 16.94 Mbit/s
95th percentile per-packet one-way delay: 130.830 ms
Loss rate: 81.84%
-- Flow 2:
Average throughput: 11.76 Mbit/s
95th percentile per-packet one-way delay: 180.574 ms
Loss rate: 89.32%
-- Flow 3:
Average throughput: 4.09 Mbit/s
95th percentile per-packet one-way delay: 150.056 ms
Loss rate: 34.31%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-07-17 18:55:27

End at: 2018-07-17 18:55:57

Local clock offset: 4.188 ms

Remote clock offset: 1.361 ms

Below is generated by plot.py at 2018-07-17 22:12:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 24.04 Mbit/s

95th percentile per-packet one-way delay: 206.072 ms

Loss rate: 94.39%

-- Flow 1:

Average throughput: 23.20 Mbit/s

95th percentile per-packet one-way delay: 206.202 ms

Loss rate: 94.56%

-- Flow 2:

Average throughput: 1.89 Mbit/s

95th percentile per-packet one-way delay: 148.744 ms

Loss rate: 47.02%

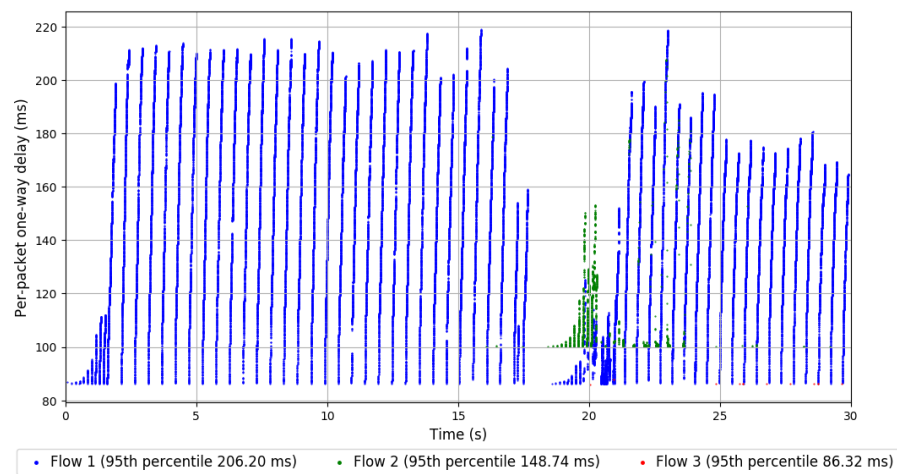
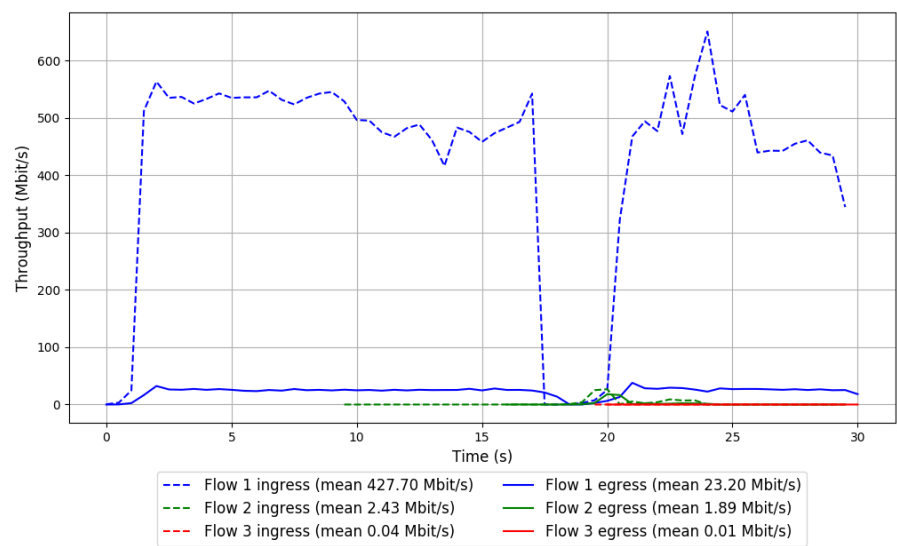
-- Flow 3:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 86.321 ms

Loss rate: 67.57%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-07-17 19:26:40

End at: 2018-07-17 19:27:10

Local clock offset: 6.017 ms

Remote clock offset: 1.239 ms

Below is generated by plot.py at 2018-07-17 22:12:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 25.40 Mbit/s

95th percentile per-packet one-way delay: 192.576 ms

Loss rate: 89.86%

-- Flow 1:

Average throughput: 12.66 Mbit/s

95th percentile per-packet one-way delay: 191.825 ms

Loss rate: 91.10%

-- Flow 2:

Average throughput: 20.30 Mbit/s

95th percentile per-packet one-way delay: 195.643 ms

Loss rate: 89.69%

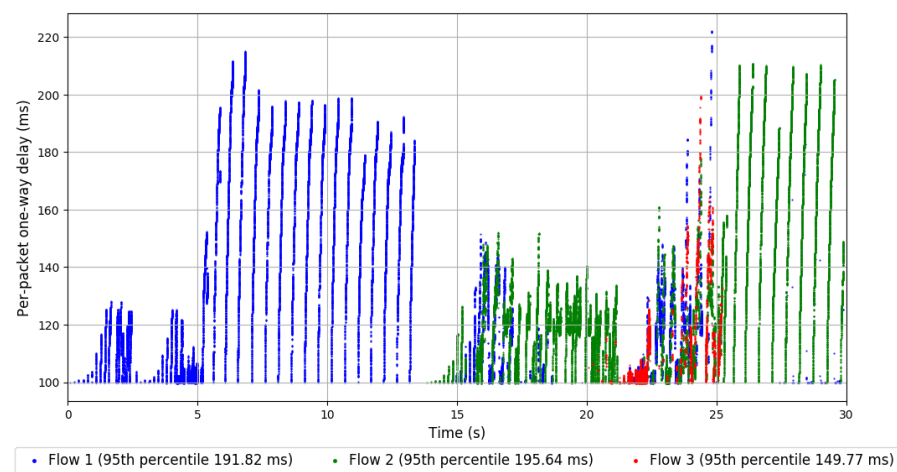
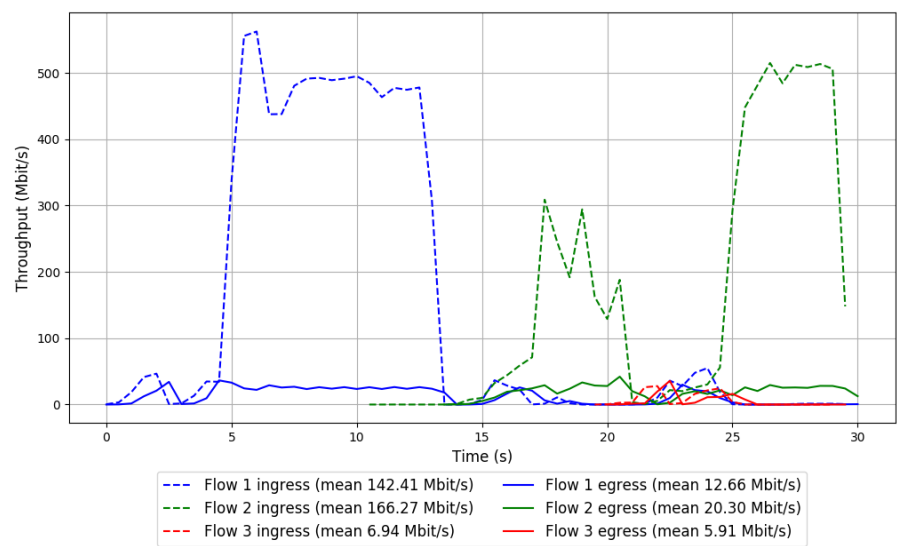
-- Flow 3:

Average throughput: 5.91 Mbit/s

95th percentile per-packet one-way delay: 149.770 ms

Loss rate: 16.40%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-07-17 20:00:36

End at: 2018-07-17 20:01:06

Local clock offset: 4.268 ms

Remote clock offset: 1.016 ms

Below is generated by plot.py at 2018-07-17 22:12:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 23.07 Mbit/s

95th percentile per-packet one-way delay: 197.829 ms

Loss rate: 93.53%

-- Flow 1:

Average throughput: 13.43 Mbit/s

95th percentile per-packet one-way delay: 202.024 ms

Loss rate: 93.03%

-- Flow 2:

Average throughput: 15.96 Mbit/s

95th percentile per-packet one-way delay: 172.446 ms

Loss rate: 94.07%

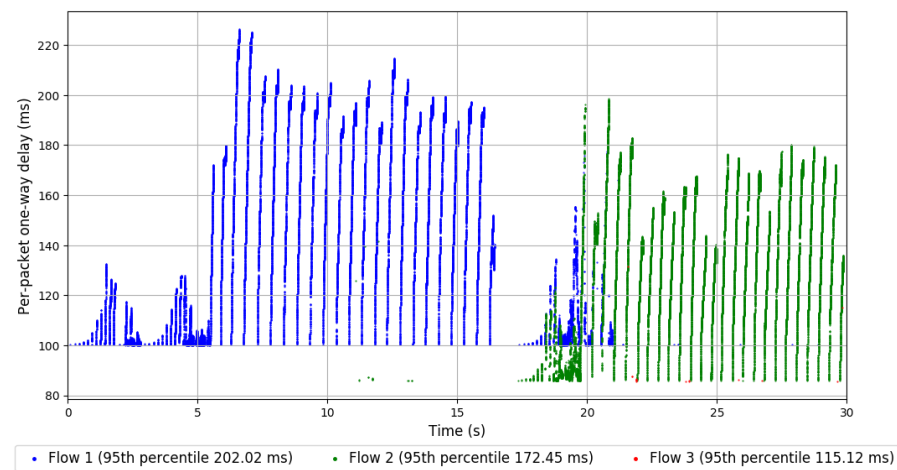
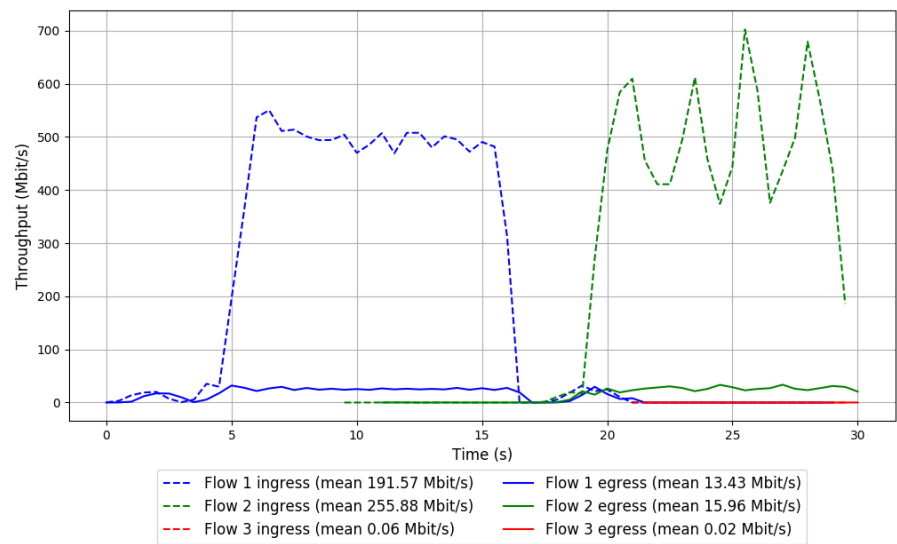
-- Flow 3:

Average throughput: 0.02 Mbit/s

95th percentile per-packet one-way delay: 115.120 ms

Loss rate: 60.98%

Run 7: Report of Verus — Data Link

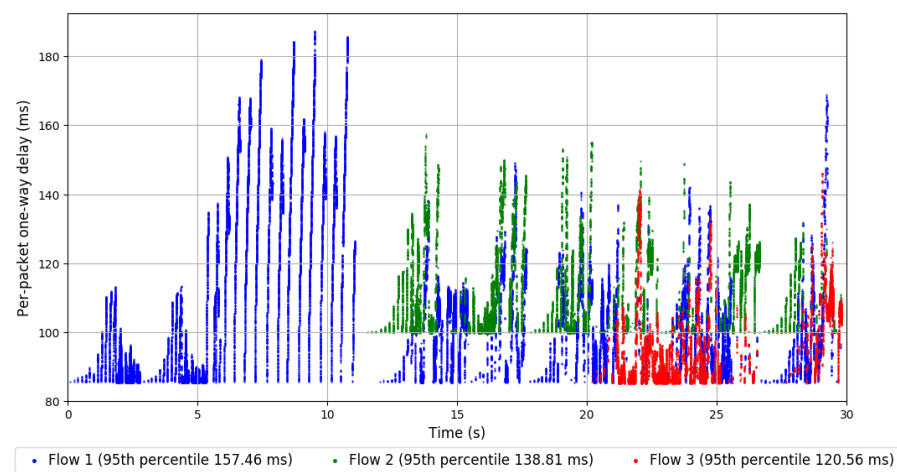
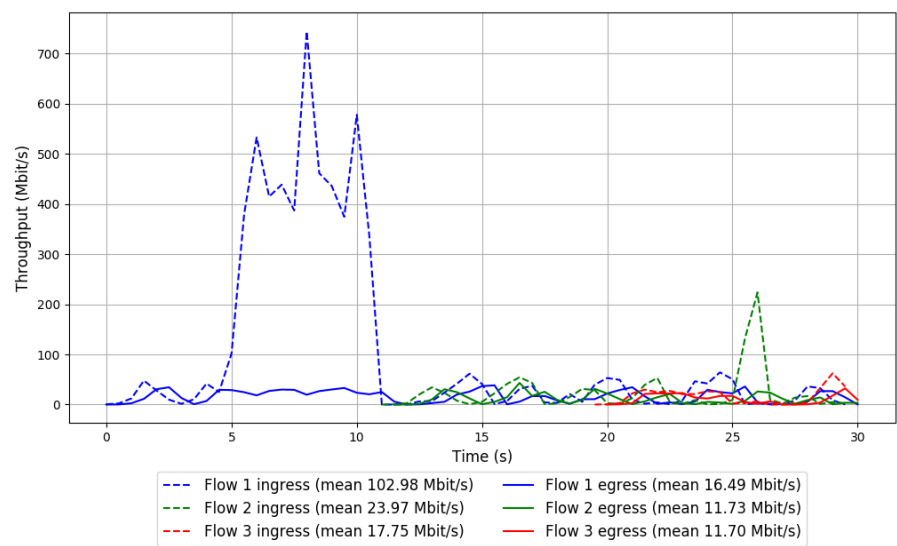


Run 8: Statistics of Verus

Start at: 2018-07-17 20:35:44
End at: 2018-07-17 20:36:14
Local clock offset: 6.275 ms
Remote clock offset: 1.01 ms

Below is generated by plot.py at 2018-07-17 22:12:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 27.52 Mbit/s
95th percentile per-packet one-way delay: 150.353 ms
Loss rate: 77.69%
-- Flow 1:
Average throughput: 16.49 Mbit/s
95th percentile per-packet one-way delay: 157.463 ms
Loss rate: 83.98%
-- Flow 2:
Average throughput: 11.73 Mbit/s
95th percentile per-packet one-way delay: 138.809 ms
Loss rate: 51.09%
-- Flow 3:
Average throughput: 11.70 Mbit/s
95th percentile per-packet one-way delay: 120.556 ms
Loss rate: 34.05%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-07-17 21:08:40

End at: 2018-07-17 21:09:10

Local clock offset: 7.001 ms

Remote clock offset: 0.955 ms

Below is generated by plot.py at 2018-07-17 22:12:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 24.14 Mbit/s

95th percentile per-packet one-way delay: 190.947 ms

Loss rate: 88.15%

-- Flow 1:

Average throughput: 17.88 Mbit/s

95th percentile per-packet one-way delay: 195.201 ms

Loss rate: 90.67%

-- Flow 2:

Average throughput: 9.76 Mbit/s

95th percentile per-packet one-way delay: 117.018 ms

Loss rate: 52.27%

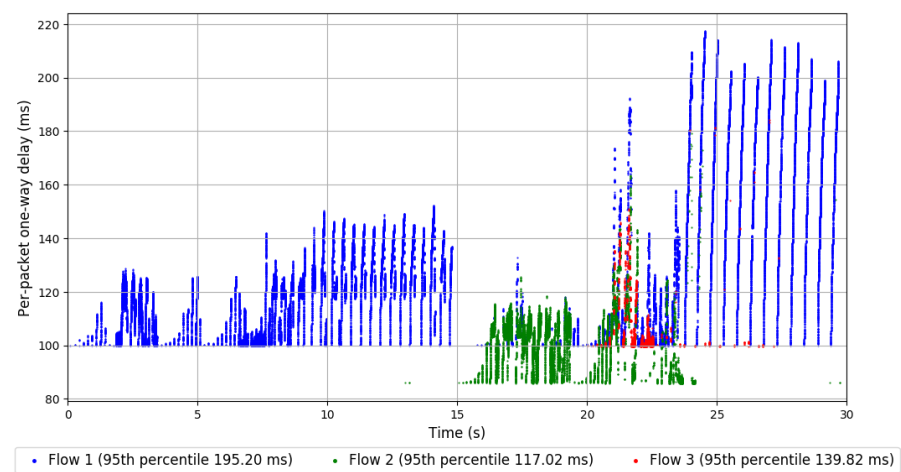
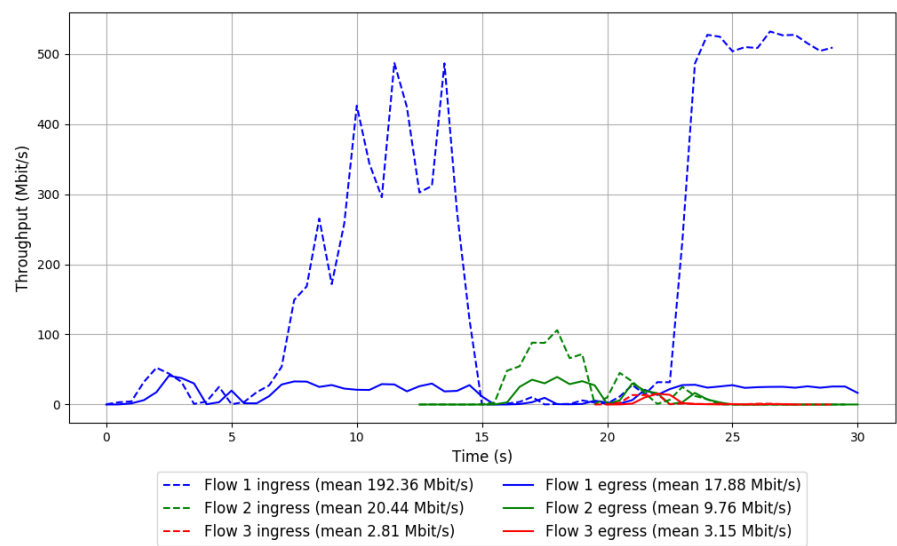
-- Flow 3:

Average throughput: 3.15 Mbit/s

95th percentile per-packet one-way delay: 139.825 ms

Loss rate: 13.27%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-07-17 21:38:31

End at: 2018-07-17 21:39:01

Local clock offset: 5.318 ms

Remote clock offset: 1.055 ms

Below is generated by plot.py at 2018-07-17 22:12:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 25.70 Mbit/s

95th percentile per-packet one-way delay: 128.947 ms

Loss rate: 72.04%

-- Flow 1:

Average throughput: 12.40 Mbit/s

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

Loss rate: 53.01%

-- Flow 2:

Average throughput: 17.15 Mbit/s

95th percentile per-packet one-way delay: 128.949 ms

Loss rate: 81.69%

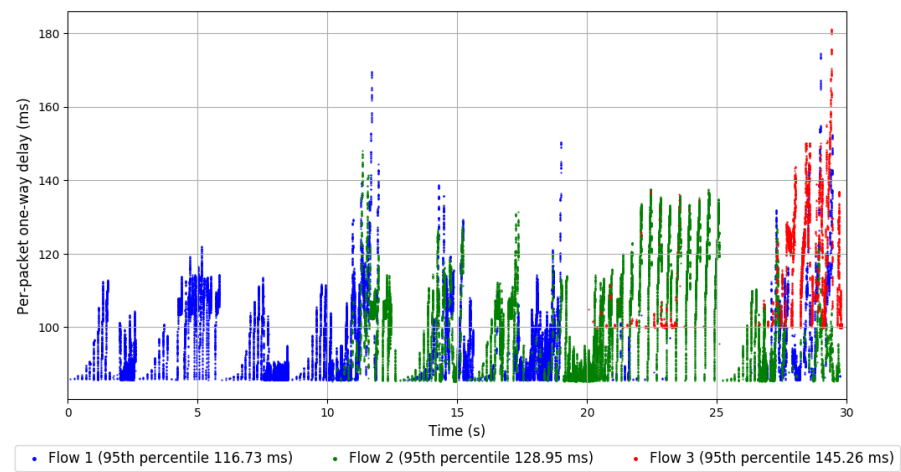
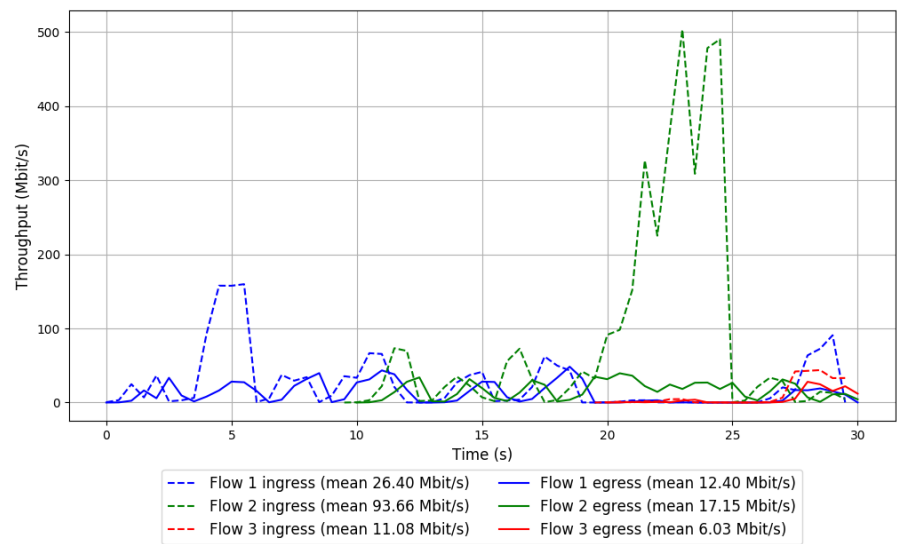
-- Flow 3:

Average throughput: 6.03 Mbit/s

95th percentile per-packet one-way delay: 145.261 ms

Loss rate: 45.62%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-07-17 16:38:22

End at: 2018-07-17 16:38:52

Local clock offset: 3.562 ms

Remote clock offset: 0.68 ms

Below is generated by plot.py at 2018-07-17 22:12:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 43.46 Mbit/s

95th percentile per-packet one-way delay: 132.686 ms

Loss rate: 5.85%

-- Flow 1:

Average throughput: 29.27 Mbit/s

95th percentile per-packet one-way delay: 134.946 ms

Loss rate: 8.37%

-- Flow 2:

Average throughput: 17.79 Mbit/s

95th percentile per-packet one-way delay: 120.783 ms

Loss rate: 0.23%

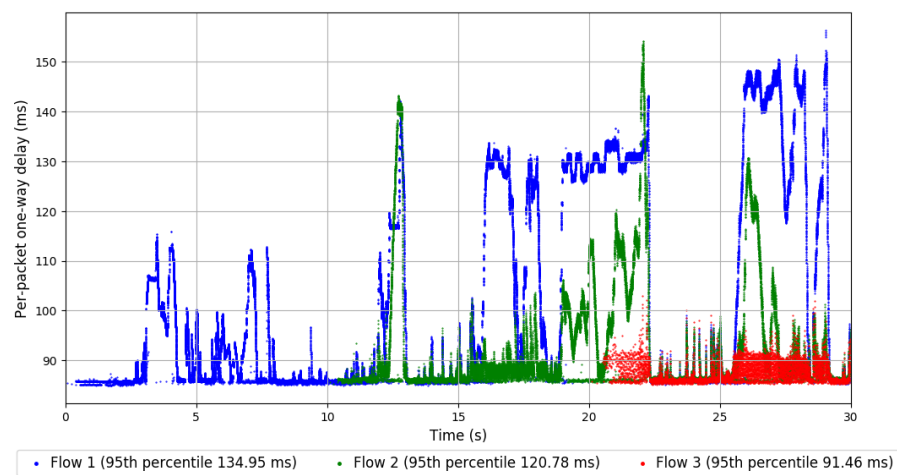
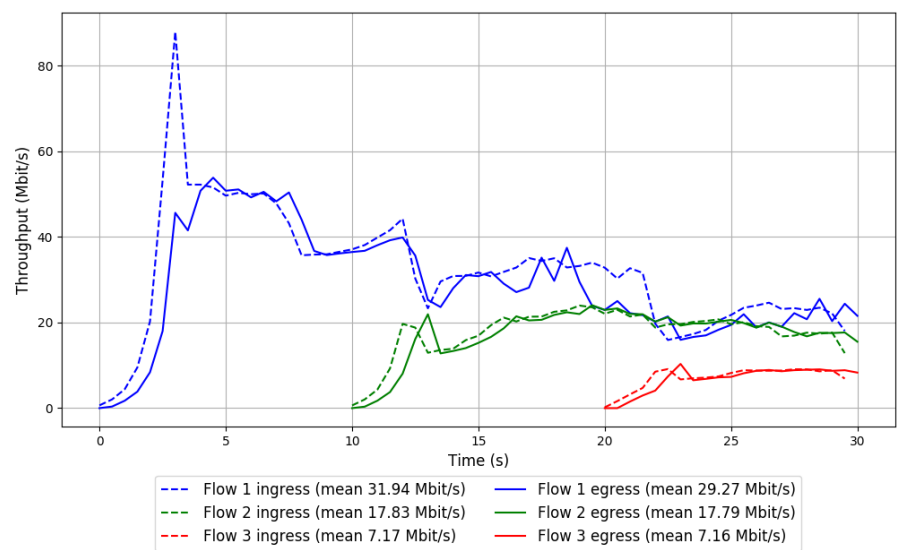
-- Flow 3:

Average throughput: 7.16 Mbit/s

95th percentile per-packet one-way delay: 91.456 ms

Loss rate: 0.10%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

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

End at: 2018-07-17 17:10:40

Local clock offset: 6.944 ms

Remote clock offset: 1.147 ms

Below is generated by plot.py at 2018-07-17 22:12:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 43.98 Mbit/s

95th percentile per-packet one-way delay: 118.014 ms

Loss rate: 7.72%

-- Flow 1:

Average throughput: 36.37 Mbit/s

95th percentile per-packet one-way delay: 118.213 ms

Loss rate: 9.16%

-- Flow 2:

Average throughput: 9.74 Mbit/s

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

Loss rate: 0.16%

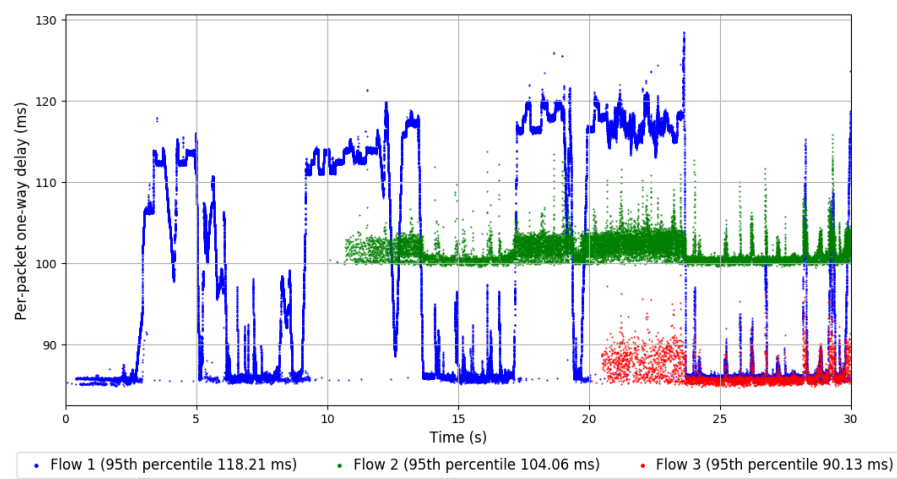
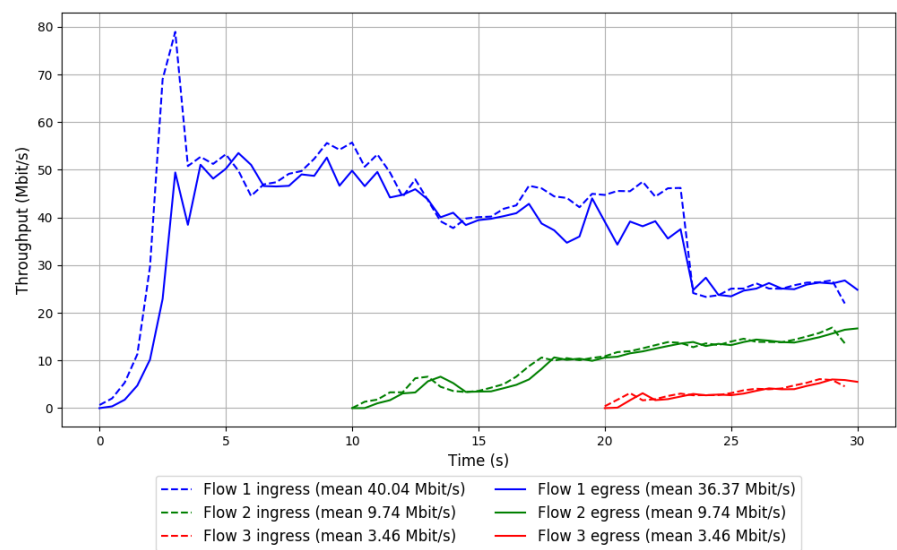
-- Flow 3:

Average throughput: 3.46 Mbit/s

95th percentile per-packet one-way delay: 90.127 ms

Loss rate: 0.10%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-07-17 17:46:20

End at: 2018-07-17 17:46:50

Local clock offset: 2.695 ms

Remote clock offset: 1.315 ms

Below is generated by plot.py at 2018-07-17 22:12:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 43.28 Mbit/s

95th percentile per-packet one-way delay: 135.405 ms

Loss rate: 11.10%

-- Flow 1:

Average throughput: 36.01 Mbit/s

95th percentile per-packet one-way delay: 135.599 ms

Loss rate: 13.01%

-- Flow 2:

Average throughput: 8.35 Mbit/s

95th percentile per-packet one-way delay: 130.470 ms

Loss rate: 0.21%

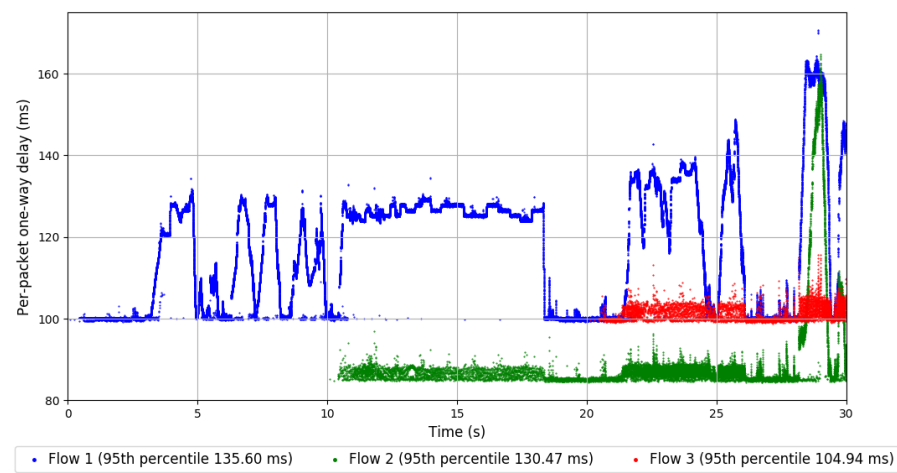
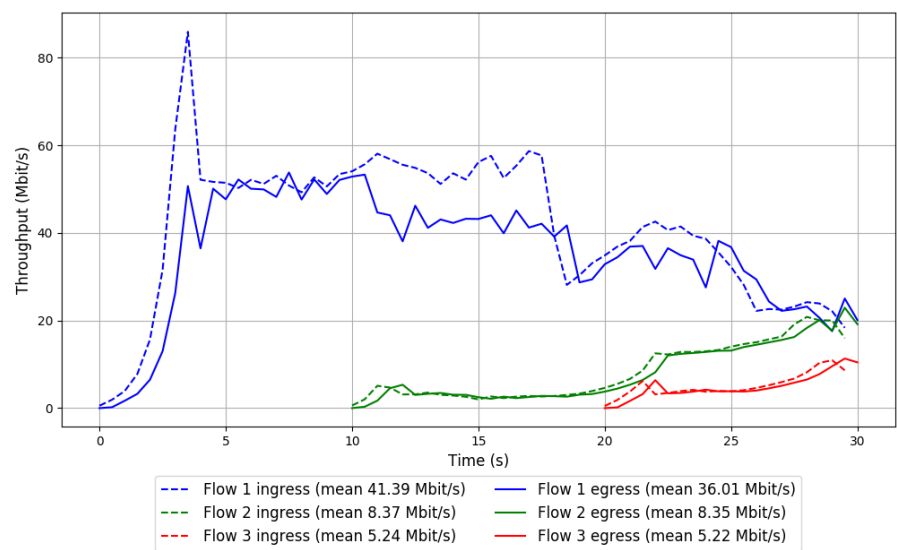
-- Flow 3:

Average throughput: 5.22 Mbit/s

95th percentile per-packet one-way delay: 104.944 ms

Loss rate: 0.45%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-07-17 18:16:35

End at: 2018-07-17 18:17:05

Local clock offset: -4.644 ms

Remote clock offset: 1.265 ms

Below is generated by plot.py at 2018-07-17 22:12:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 43.66 Mbit/s

95th percentile per-packet one-way delay: 155.472 ms

Loss rate: 7.25%

-- Flow 1:

Average throughput: 30.51 Mbit/s

95th percentile per-packet one-way delay: 155.597 ms

Loss rate: 8.16%

-- Flow 2:

Average throughput: 16.45 Mbit/s

95th percentile per-packet one-way delay: 156.426 ms

Loss rate: 6.00%

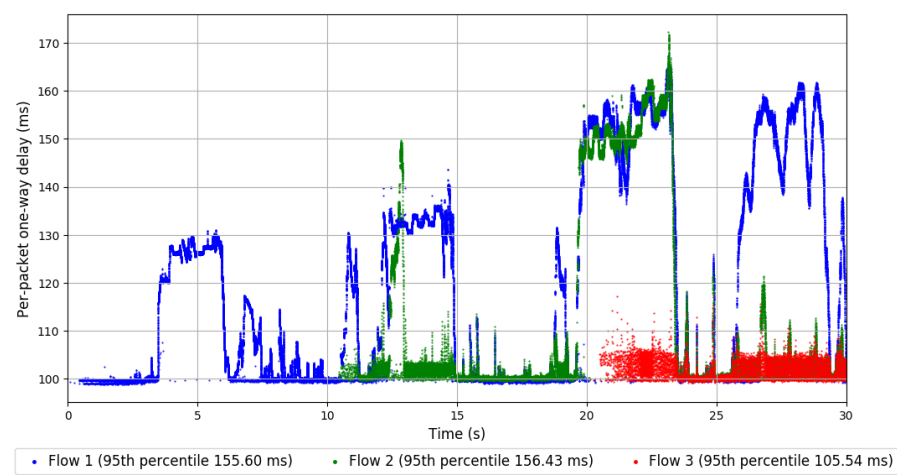
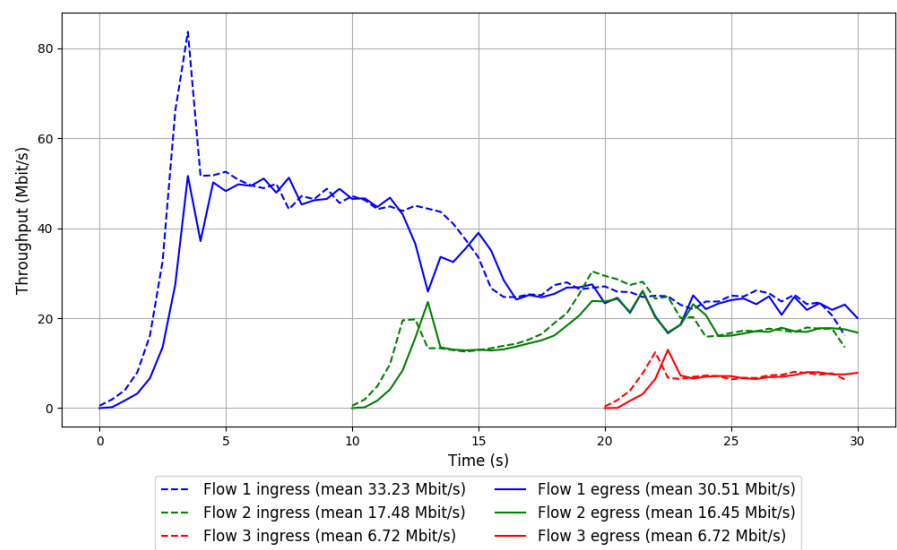
-- Flow 3:

Average throughput: 6.72 Mbit/s

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

Loss rate: 0.18%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-07-17 18:46:44

End at: 2018-07-17 18:47:14

Local clock offset: -0.633 ms

Remote clock offset: 1.393 ms

Below is generated by plot.py at 2018-07-17 22:13:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 42.89 Mbit/s

95th percentile per-packet one-way delay: 119.233 ms

Loss rate: 3.34%

-- Flow 1:

Average throughput: 37.64 Mbit/s

95th percentile per-packet one-way delay: 119.929 ms

Loss rate: 3.78%

-- Flow 2:

Average throughput: 5.27 Mbit/s

95th percentile per-packet one-way delay: 89.946 ms

Loss rate: 0.00%

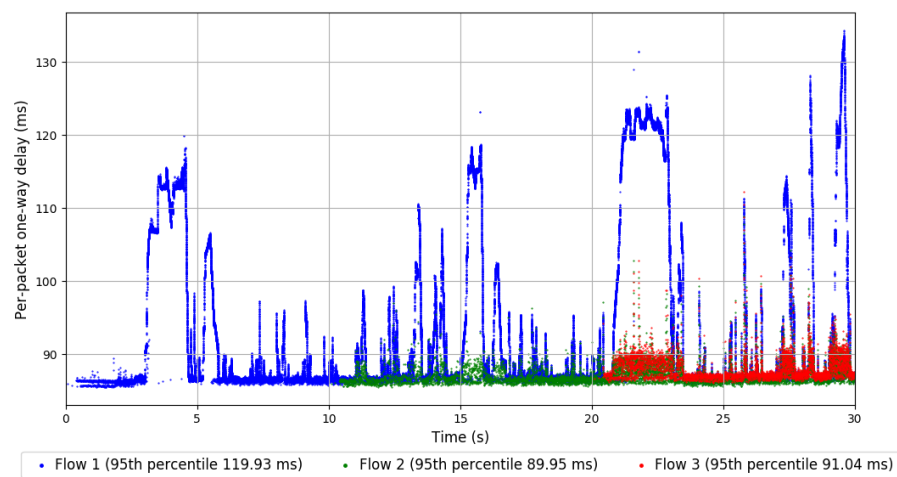
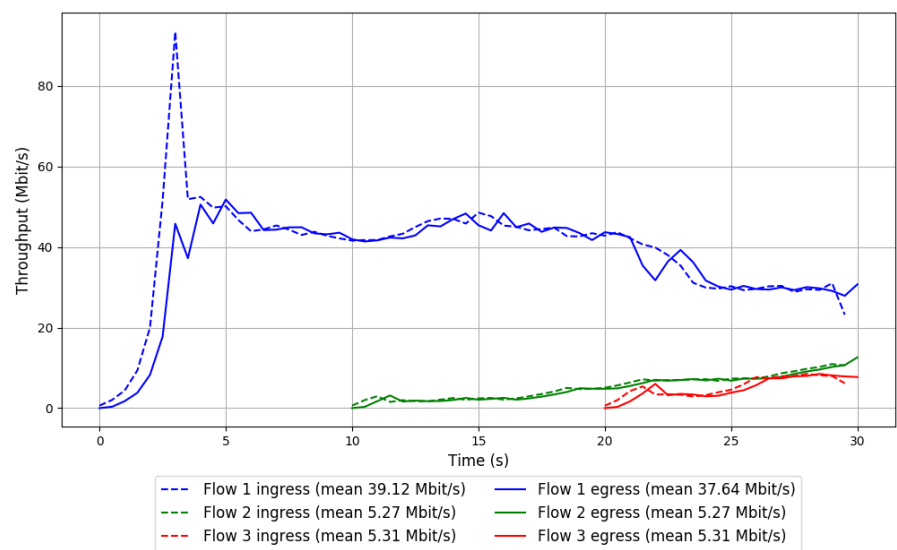
-- Flow 3:

Average throughput: 5.31 Mbit/s

95th percentile per-packet one-way delay: 91.044 ms

Loss rate: 0.02%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-07-17 19:17:40

End at: 2018-07-17 19:18:10

Local clock offset: 6.305 ms

Remote clock offset: 1.325 ms

Below is generated by plot.py at 2018-07-17 22:13:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.31 Mbit/s

95th percentile per-packet one-way delay: 136.343 ms

Loss rate: 4.90%

-- Flow 1:

Average throughput: 33.63 Mbit/s

95th percentile per-packet one-way delay: 139.703 ms

Loss rate: 5.93%

-- Flow 2:

Average throughput: 5.80 Mbit/s

95th percentile per-packet one-way delay: 91.666 ms

Loss rate: 0.02%

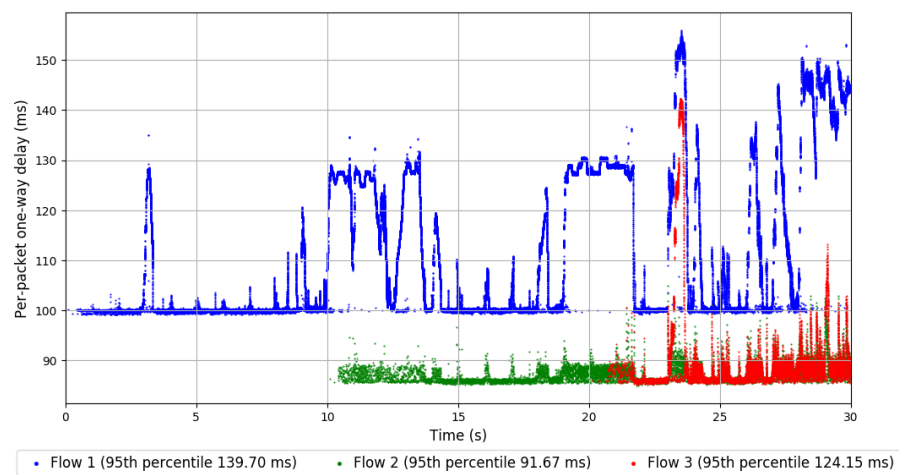
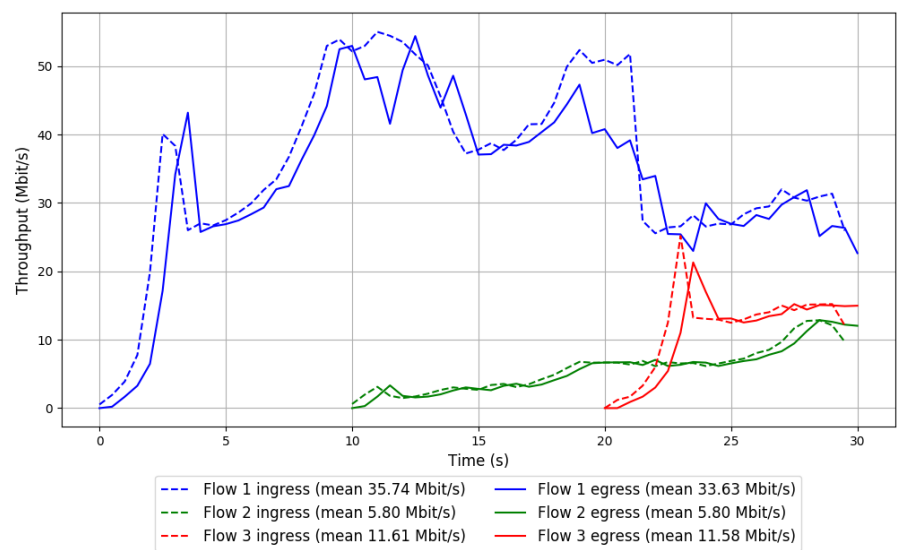
-- Flow 3:

Average throughput: 11.58 Mbit/s

95th percentile per-packet one-way delay: 124.150 ms

Loss rate: 0.21%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-07-17 19:51:03

End at: 2018-07-17 19:51:33

Local clock offset: 4.494 ms

Remote clock offset: 1.142 ms

Below is generated by plot.py at 2018-07-17 22:13:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 44.47 Mbit/s

95th percentile per-packet one-way delay: 143.018 ms

Loss rate: 3.73%

-- Flow 1:

Average throughput: 38.08 Mbit/s

95th percentile per-packet one-way delay: 143.395 ms

Loss rate: 4.18%

-- Flow 2:

Average throughput: 3.36 Mbit/s

95th percentile per-packet one-way delay: 90.104 ms

Loss rate: 0.02%

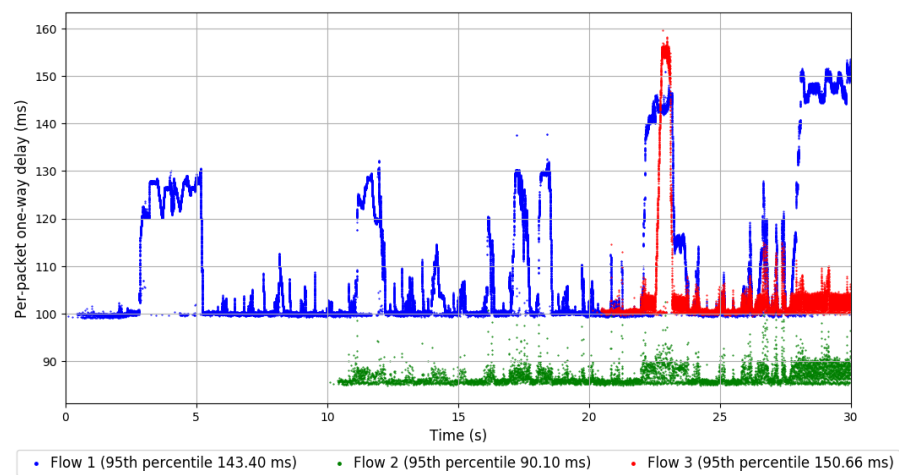
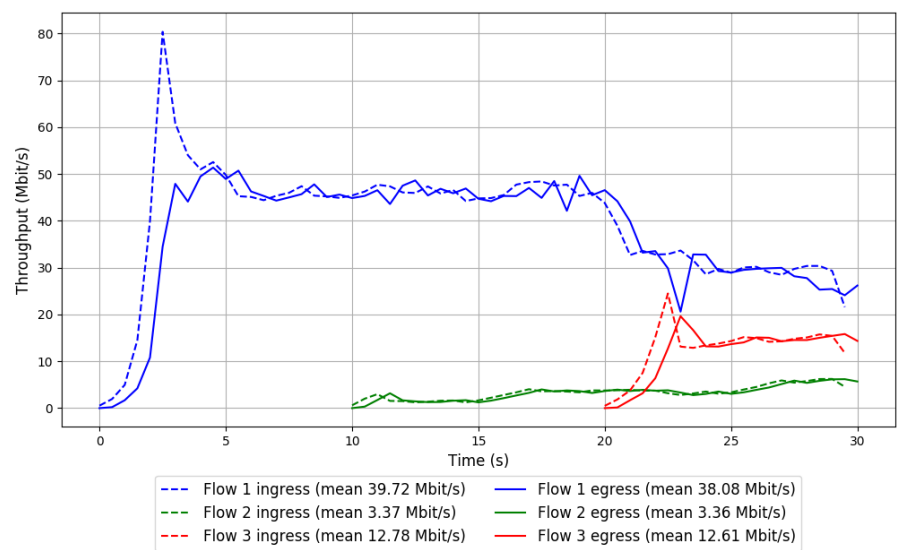
-- Flow 3:

Average throughput: 12.61 Mbit/s

95th percentile per-packet one-way delay: 150.663 ms

Loss rate: 1.46%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-07-17 20:25:51

End at: 2018-07-17 20:26:21

Local clock offset: 5.554 ms

Remote clock offset: 1.118 ms

Below is generated by plot.py at 2018-07-17 22:13:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 44.28 Mbit/s

95th percentile per-packet one-way delay: 136.000 ms

Loss rate: 4.51%

-- Flow 1:

Average throughput: 30.09 Mbit/s

95th percentile per-packet one-way delay: 128.032 ms

Loss rate: 4.43%

-- Flow 2:

Average throughput: 17.65 Mbit/s

95th percentile per-packet one-way delay: 137.706 ms

Loss rate: 5.60%

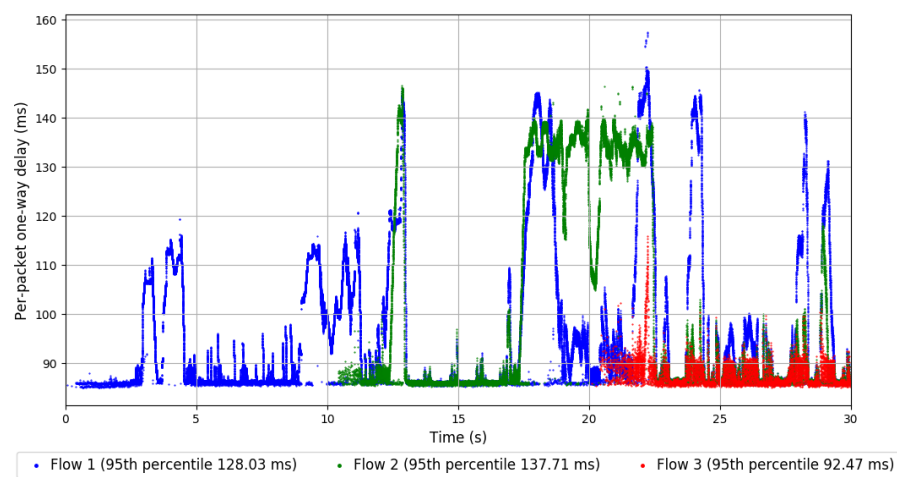
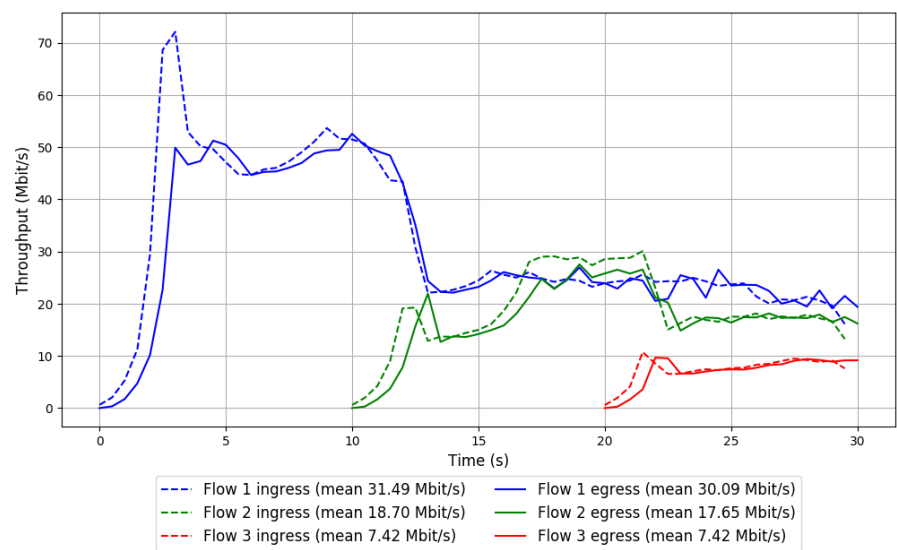
-- Flow 3:

Average throughput: 7.42 Mbit/s

95th percentile per-packet one-way delay: 92.465 ms

Loss rate: 0.02%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-07-17 20:59:53

End at: 2018-07-17 21:00:23

Local clock offset: 6.766 ms

Remote clock offset: 0.972 ms

Below is generated by plot.py at 2018-07-17 22:13:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 42.32 Mbit/s

95th percentile per-packet one-way delay: 117.900 ms

Loss rate: 4.00%

-- Flow 1:

Average throughput: 34.35 Mbit/s

95th percentile per-packet one-way delay: 119.824 ms

Loss rate: 4.86%

-- Flow 2:

Average throughput: 9.31 Mbit/s

95th percentile per-packet one-way delay: 89.861 ms

Loss rate: 0.01%

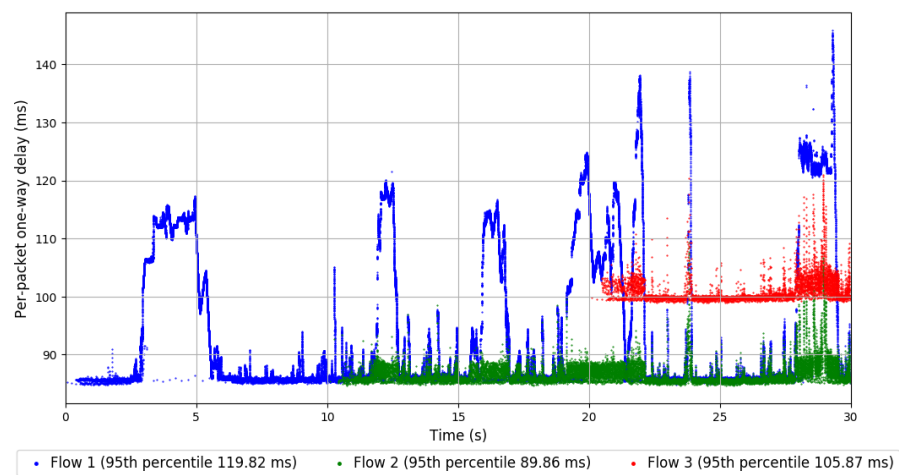
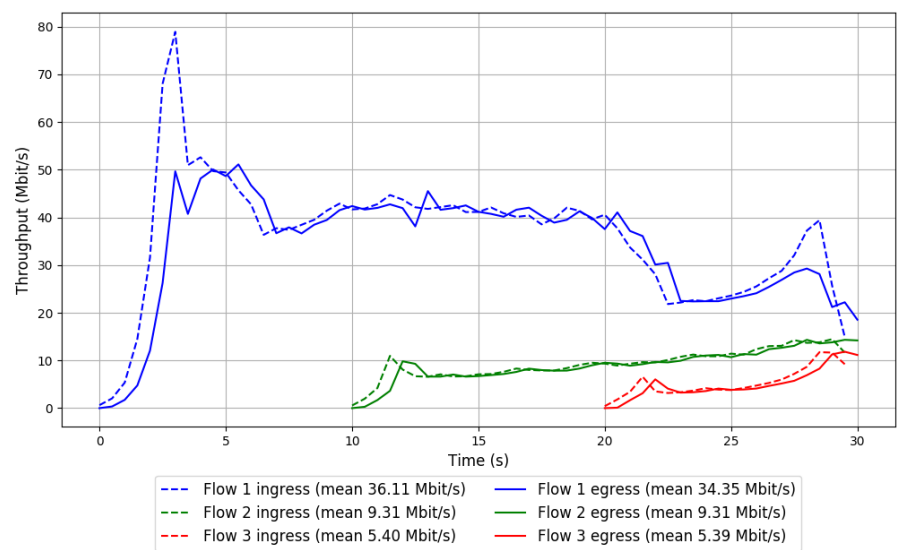
-- Flow 3:

Average throughput: 5.39 Mbit/s

95th percentile per-packet one-way delay: 105.868 ms

Loss rate: 0.30%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-07-17 21:29:46

End at: 2018-07-17 21:30:16

Local clock offset: 5.338 ms

Remote clock offset: 1.096 ms

Below is generated by plot.py at 2018-07-17 22:13:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 43.19 Mbit/s

95th percentile per-packet one-way delay: 131.112 ms

Loss rate: 10.83%

-- Flow 1:

Average throughput: 38.99 Mbit/s

95th percentile per-packet one-way delay: 131.183 ms

Loss rate: 11.85%

-- Flow 2:

Average throughput: 5.49 Mbit/s

95th percentile per-packet one-way delay: 104.092 ms

Loss rate: 0.12%

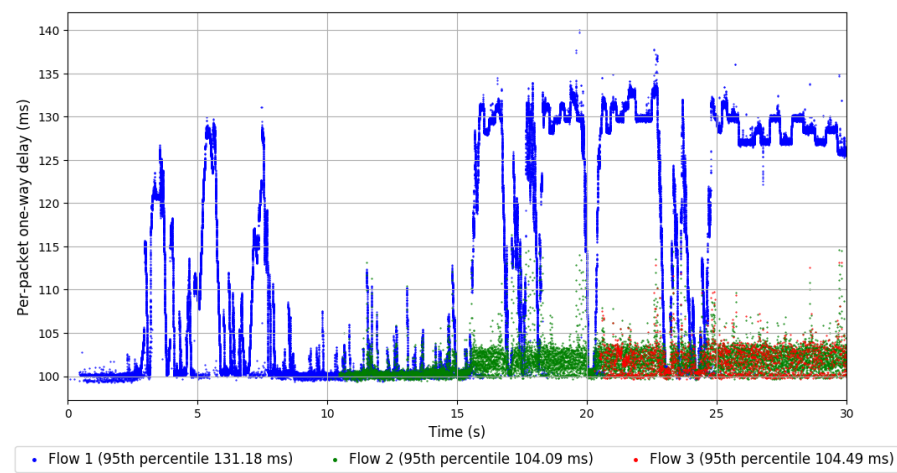
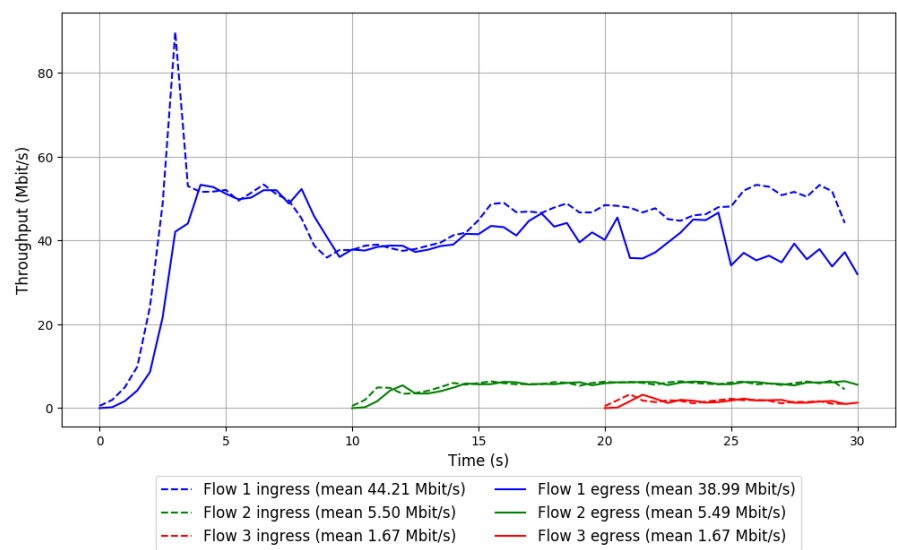
-- Flow 3:

Average throughput: 1.67 Mbit/s

95th percentile per-packet one-way delay: 104.491 ms

Loss rate: 0.14%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-07-17 16:50:33

End at: 2018-07-17 16:51:03

Local clock offset: 5.505 ms

Remote clock offset: 0.702 ms

Below is generated by plot.py at 2018-07-17 22:13:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.55 Mbit/s

95th percentile per-packet one-way delay: 102.153 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 1.91 Mbit/s

95th percentile per-packet one-way delay: 102.890 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.24 Mbit/s

95th percentile per-packet one-way delay: 88.440 ms

Loss rate: 0.02%

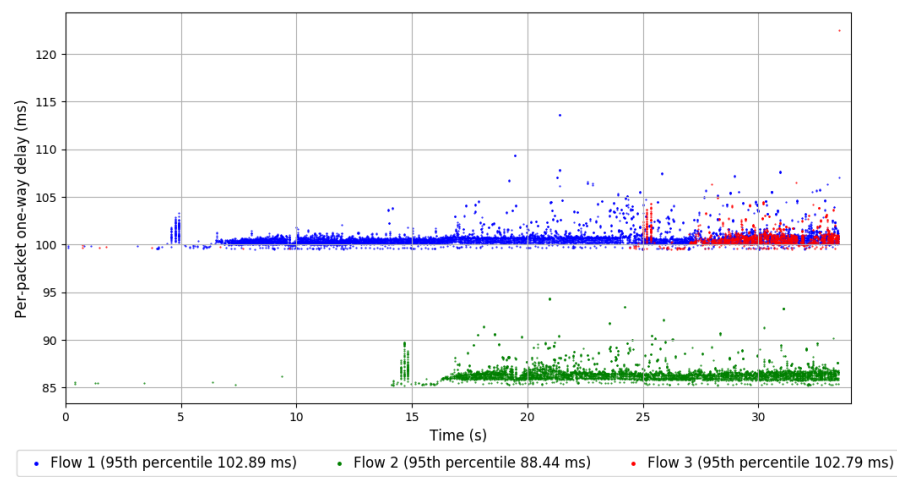
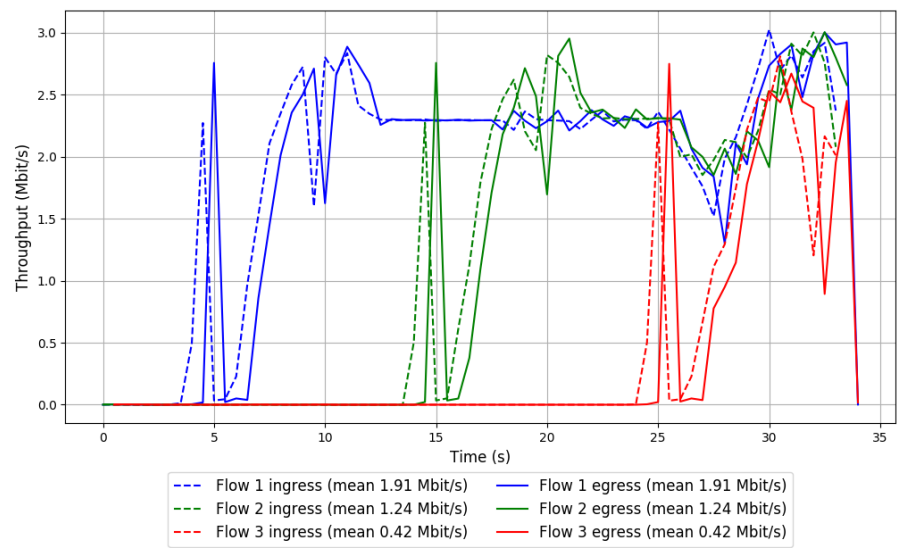
-- Flow 3:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 102.787 ms

Loss rate: 0.41%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-07-17 17:22:37

End at: 2018-07-17 17:23:07

Local clock offset: 7.117 ms

Remote clock offset: 1.092 ms

Below is generated by plot.py at 2018-07-17 22:13:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.66 Mbit/s

95th percentile per-packet one-way delay: 101.886 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 1.92 Mbit/s

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

Loss rate: 0.01%

-- Flow 2:

Average throughput: 1.25 Mbit/s

95th percentile per-packet one-way delay: 87.857 ms

Loss rate: 0.00%

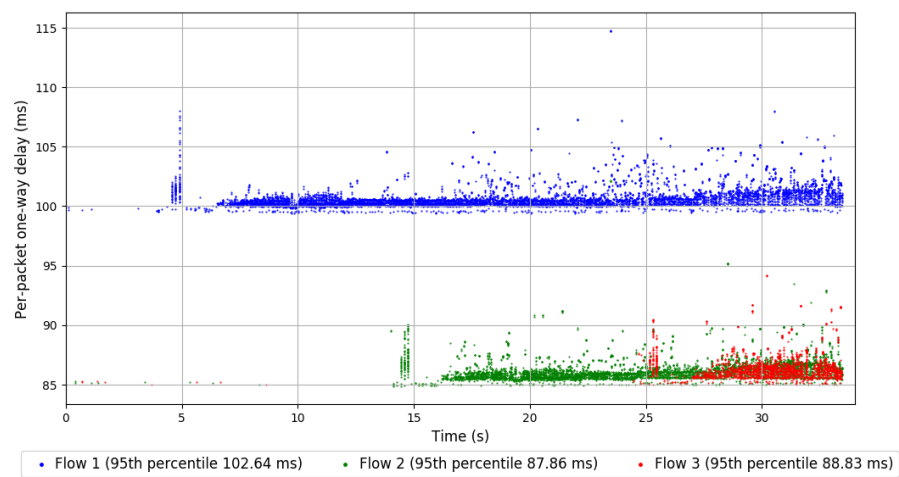
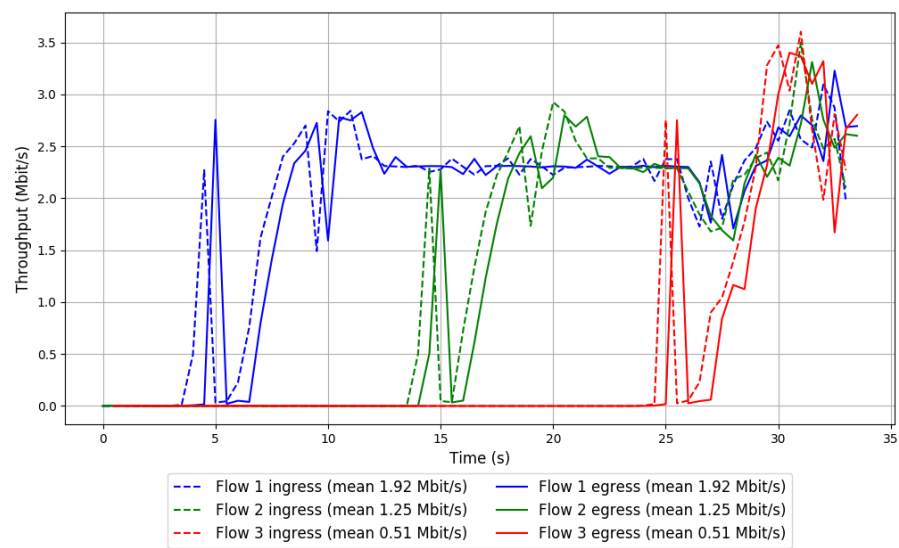
-- Flow 3:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 88.825 ms

Loss rate: 0.05%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-07-17 17:58:08

End at: 2018-07-17 17:58:38

Local clock offset: -1.886 ms

Remote clock offset: 1.264 ms

Below is generated by plot.py at 2018-07-17 22:13:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.55 Mbit/s

95th percentile per-packet one-way delay: 100.979 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 1.89 Mbit/s

95th percentile per-packet one-way delay: 101.980 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 1.25 Mbit/s

95th percentile per-packet one-way delay: 87.783 ms

Loss rate: 0.00%

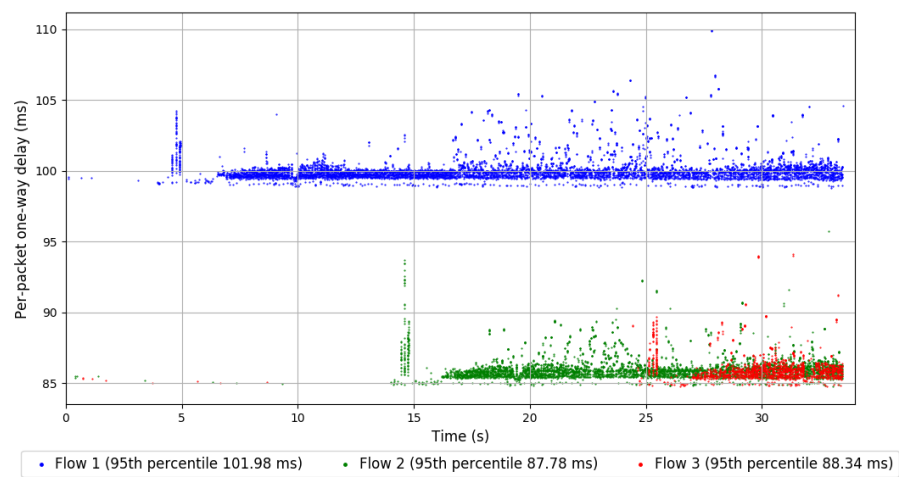
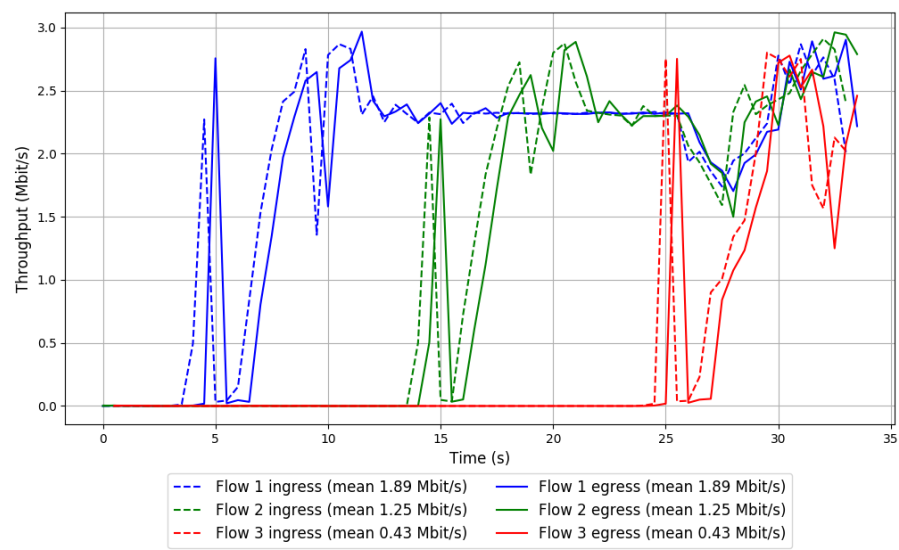
-- Flow 3:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 88.343 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-07-17 18:28:15

End at: 2018-07-17 18:28:45

Local clock offset: -5.947 ms

Remote clock offset: 1.249 ms

Below is generated by plot.py at 2018-07-17 22:13:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.57 Mbit/s

95th percentile per-packet one-way delay: 87.641 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 87.719 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.24 Mbit/s

95th percentile per-packet one-way delay: 87.008 ms

Loss rate: 0.00%

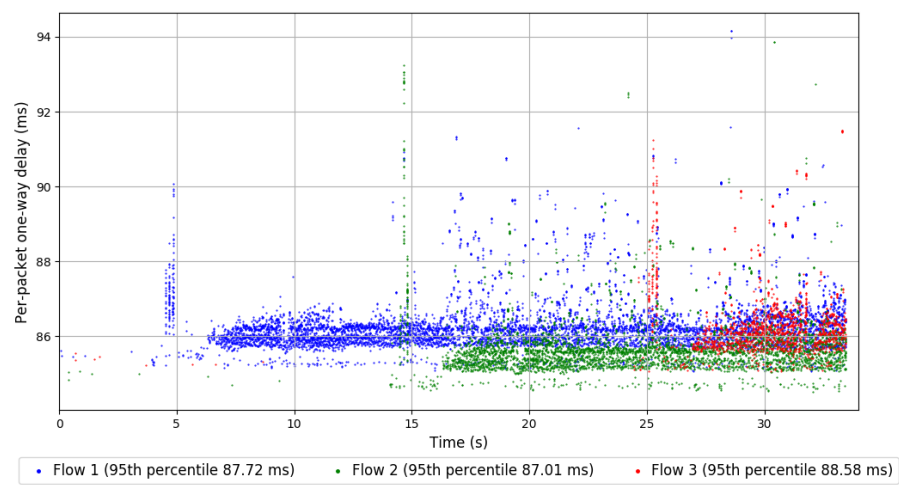
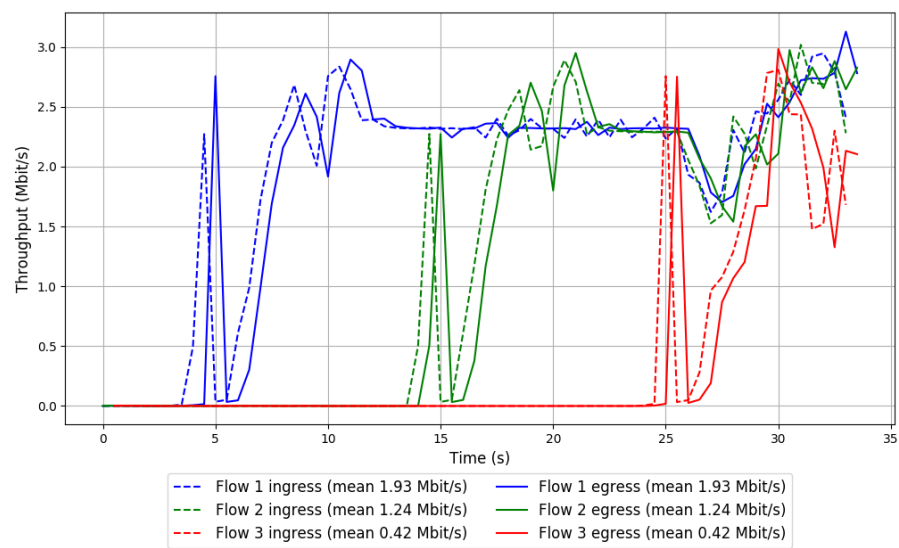
-- Flow 3:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 88.579 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-07-17 18:58:40

End at: 2018-07-17 18:59:10

Local clock offset: 5.363 ms

Remote clock offset: 1.361 ms

Below is generated by plot.py at 2018-07-17 22:13:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.60 Mbit/s

95th percentile per-packet one-way delay: 102.425 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 1.90 Mbit/s

95th percentile per-packet one-way delay: 102.577 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 102.719 ms

Loss rate: 0.02%

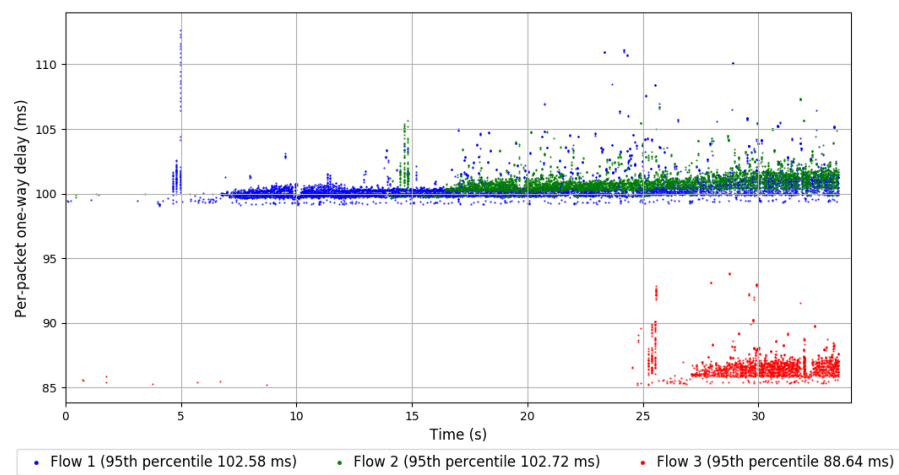
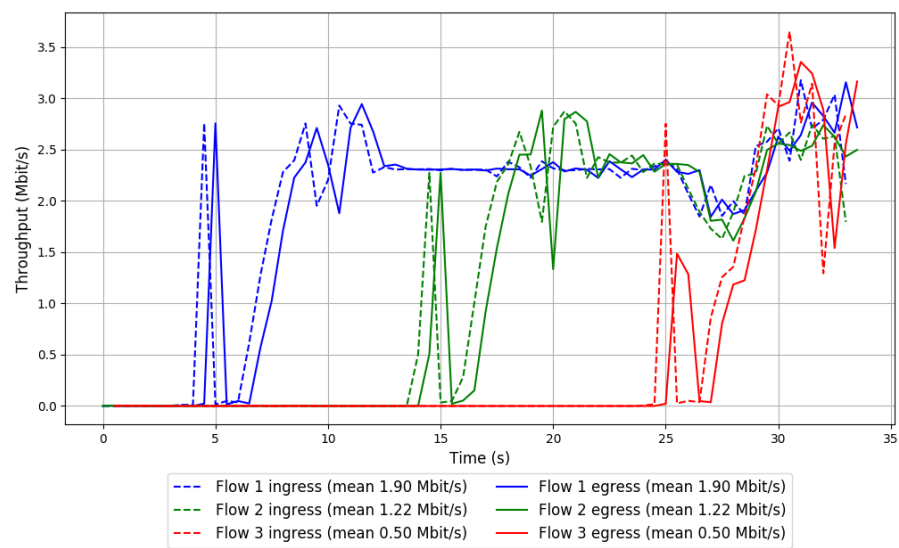
-- Flow 3:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 88.638 ms

Loss rate: 0.05%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-07-17 19:29:56

End at: 2018-07-17 19:30:26

Local clock offset: 5.846 ms

Remote clock offset: 1.172 ms

Below is generated by plot.py at 2018-07-17 22:13:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.54 Mbit/s

95th percentile per-packet one-way delay: 101.010 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 87.854 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 102.152 ms

Loss rate: 0.07%

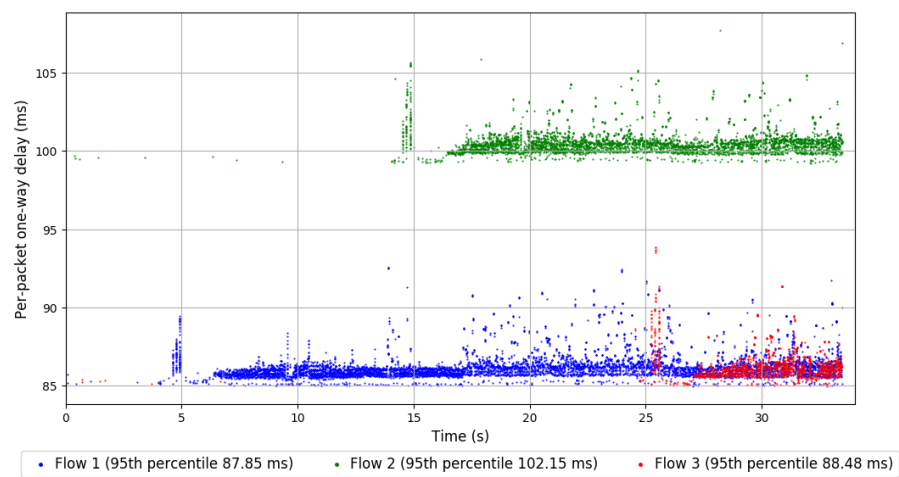
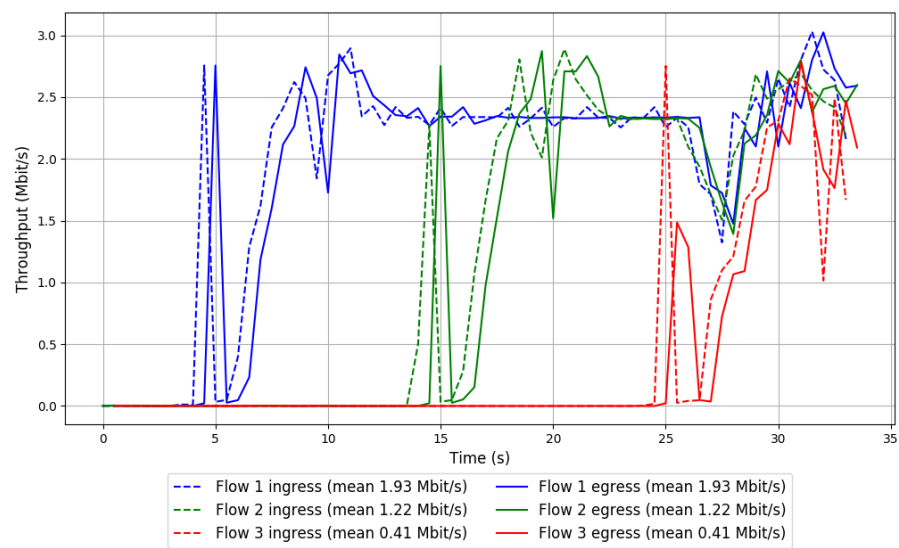
-- Flow 3:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 88.480 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-07-17 20:03:42

End at: 2018-07-17 20:04:12

Local clock offset: 4.401 ms

Remote clock offset: 1.1 ms

Below is generated by plot.py at 2018-07-17 22:13:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.51 Mbit/s

95th percentile per-packet one-way delay: 101.756 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 1.88 Mbit/s

95th percentile per-packet one-way delay: 102.075 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 101.786 ms

Loss rate: 0.00%

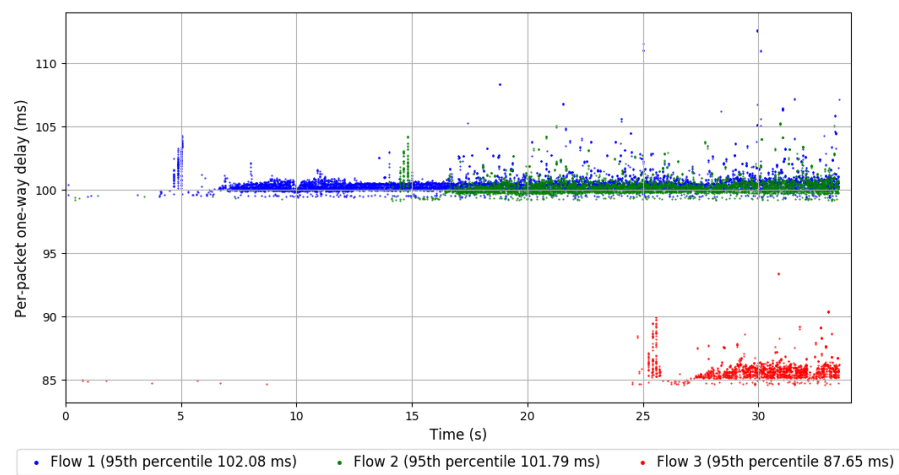
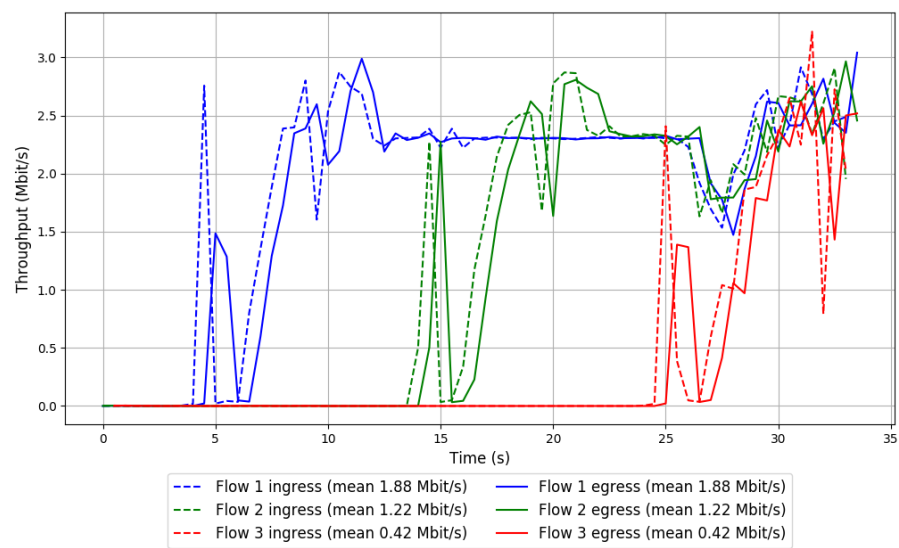
-- Flow 3:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 87.653 ms

Loss rate: 0.09%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-07-17 20:39:08

End at: 2018-07-17 20:39:38

Local clock offset: 6.086 ms

Remote clock offset: 0.93 ms

Below is generated by plot.py at 2018-07-17 22:13:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.48 Mbit/s

95th percentile per-packet one-way delay: 102.092 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 1.88 Mbit/s

95th percentile per-packet one-way delay: 102.117 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 101.762 ms

Loss rate: 0.16%

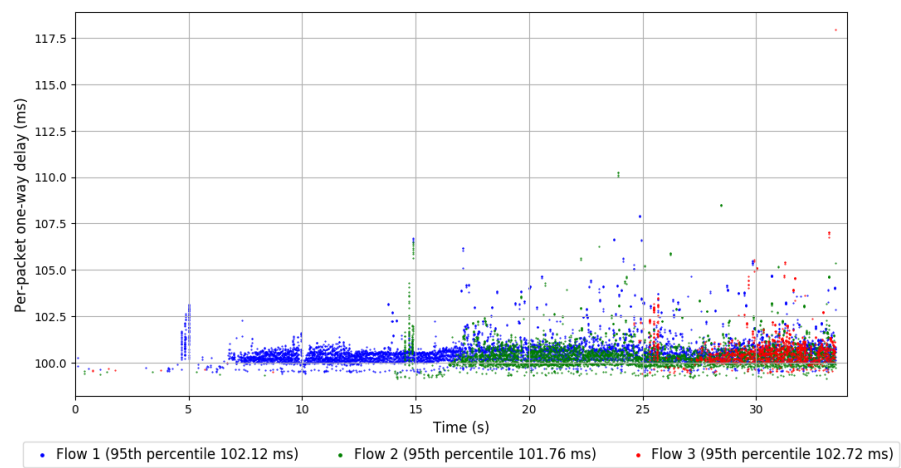
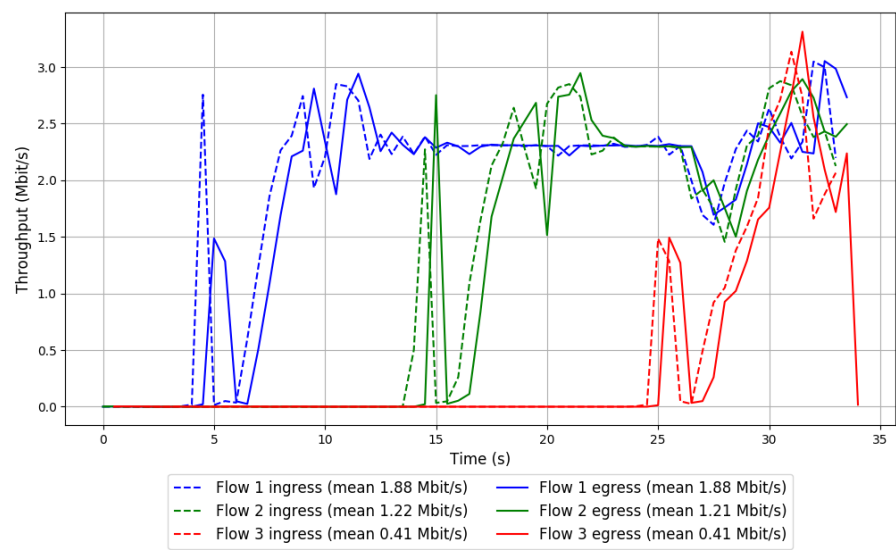
-- Flow 3:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 102.725 ms

Loss rate: 0.39%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-07-17 21:11:48

End at: 2018-07-17 21:12:18

Local clock offset: 6.895 ms

Remote clock offset: 1.053 ms

Below is generated by plot.py at 2018-07-17 22:13:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.83 Mbit/s

95th percentile per-packet one-way delay: 101.079 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 101.921 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 1.35 Mbit/s

95th percentile per-packet one-way delay: 87.454 ms

Loss rate: 0.04%

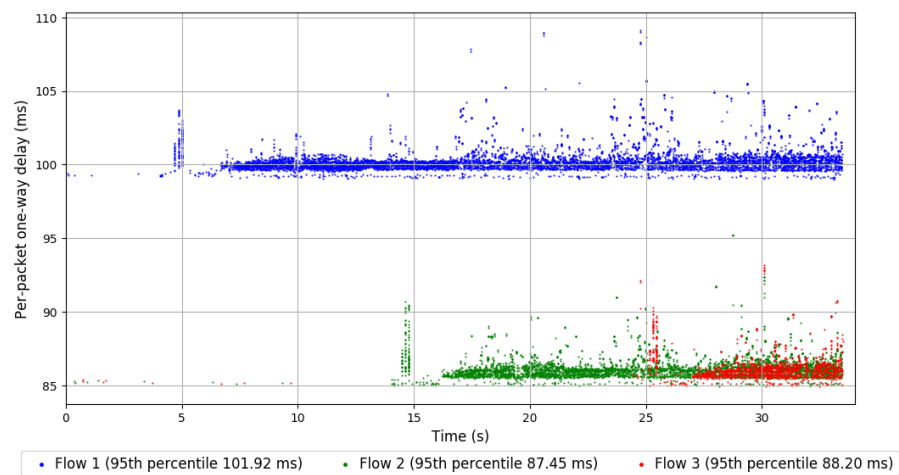
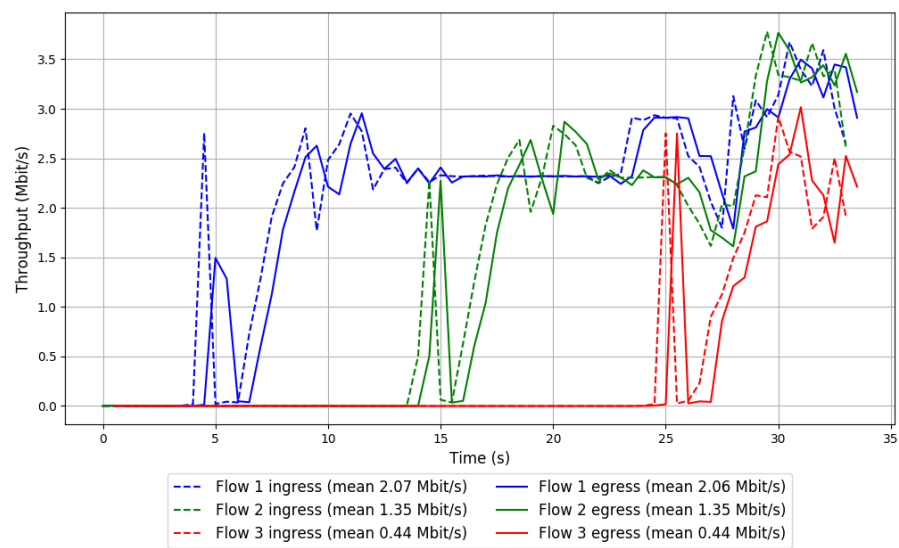
-- Flow 3:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 88.201 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-07-17 21:41:30

End at: 2018-07-17 21:42:00

Local clock offset: 5.122 ms

Remote clock offset: 1.056 ms

Below is generated by plot.py at 2018-07-17 22:13:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.54 Mbit/s

95th percentile per-packet one-way delay: 100.564 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 1.92 Mbit/s

95th percentile per-packet one-way delay: 87.127 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 101.592 ms

Loss rate: 0.20%

-- Flow 3:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 87.943 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

