

Pantheon Report

Generated at 2018-06-20 16:38:06 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

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

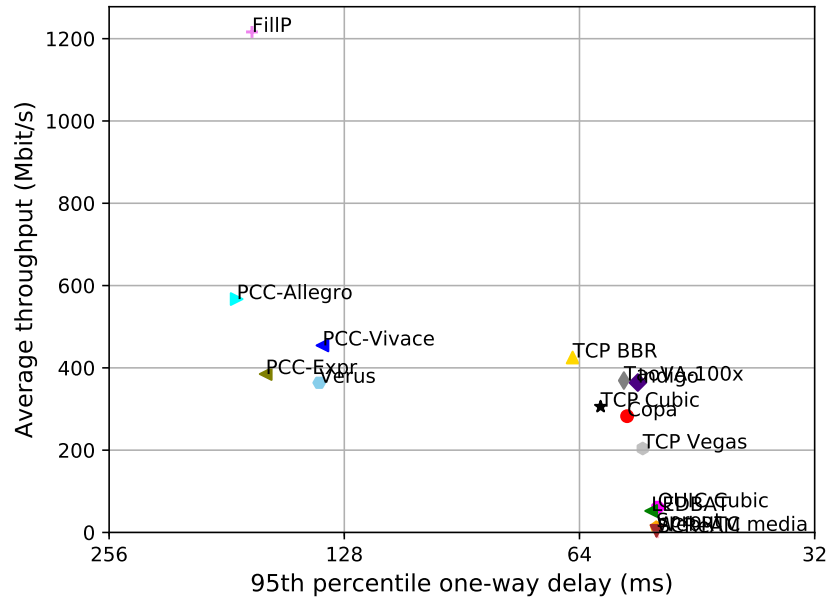
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

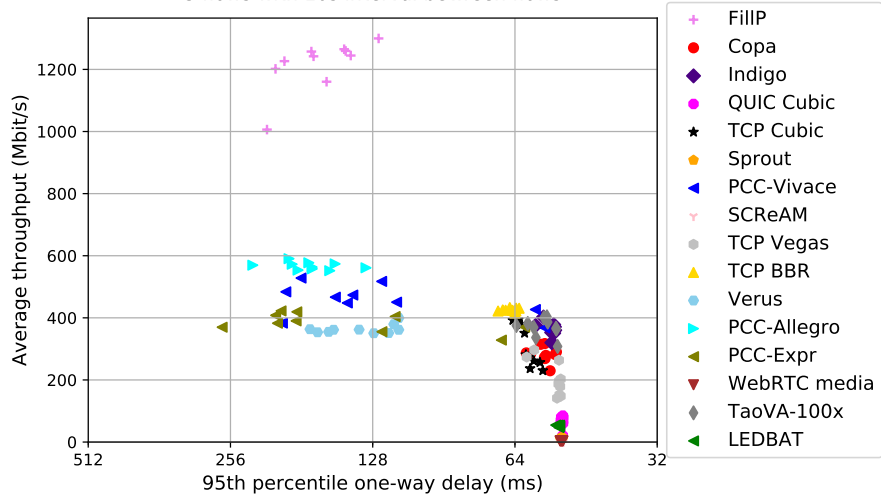
Git summary:

```
branch: master @ 9141c5f9450c85ea5ea2ea755a8e946998d3abf3
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
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 GCE London to GCE Iowa, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from GCE London to GCE Iowa, 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	217.26	212.52	199.65	63.79	65.59	67.00	0.04	0.06	0.12
Copa	10	158.94	133.83	107.10	55.79	54.76	57.33	0.02	0.02	0.12
TCP Cubic	10	179.07	134.48	111.61	59.76	59.33	58.18	0.04	0.03	0.08
FillP	10	666.49	589.88	475.06	156.79	171.16	171.95	3.79	3.16	3.25
Indigo	10	189.53	183.17	164.13	53.49	54.10	54.43	0.00	0.00	0.00
LEDBAT	10	33.25	23.03	11.30	51.91	51.75	51.43	0.01	0.01	0.00
PCC-Allegro	10	487.37	112.24	15.92	178.02	159.69	148.27	2.14	1.49	1.79
PCC-Expr	10	220.36	198.08	99.61	142.85	144.84	64.69	1.02	1.15	0.02
QUIC Cubic	10	32.12	32.39	23.36	50.72	50.71	50.62	0.00	0.00	0.00
SCReAM	10	0.22	0.22	0.22	50.66	50.79	50.65	0.00	0.00	0.00
Sprout	10	6.96	6.13	5.05	51.01	51.06	51.00	0.00	0.00	0.00
TaoVA-100x	10	196.22	174.05	172.51	53.39	57.02	59.46	0.01	0.01	0.02
TCP Vegas	10	105.44	110.98	74.35	52.32	53.15	53.74	0.00	0.00	0.03
Verus	10	205.81	173.57	134.35	124.52	149.38	146.44	0.85	0.66	1.59
PCC-Vivace	10	266.31	217.34	132.35	154.15	95.45	62.69	0.37	0.35	0.01
WebRTC media	10	2.07	1.32	0.54	50.87	50.96	50.89	0.01	0.00	0.01

Run 1: Statistics of TCP BBR

Start at: 2018-06-20 10:25:37

End at: 2018-06-20 10:26:07

Local clock offset: -0.054 ms

Remote clock offset: 0.008 ms

Below is generated by plot.py at 2018-06-20 14:26:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 424.57 Mbit/s

95th percentile per-packet one-way delay: 66.996 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 219.01 Mbit/s

95th percentile per-packet one-way delay: 64.935 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 209.16 Mbit/s

95th percentile per-packet one-way delay: 67.193 ms

Loss rate: 0.01%

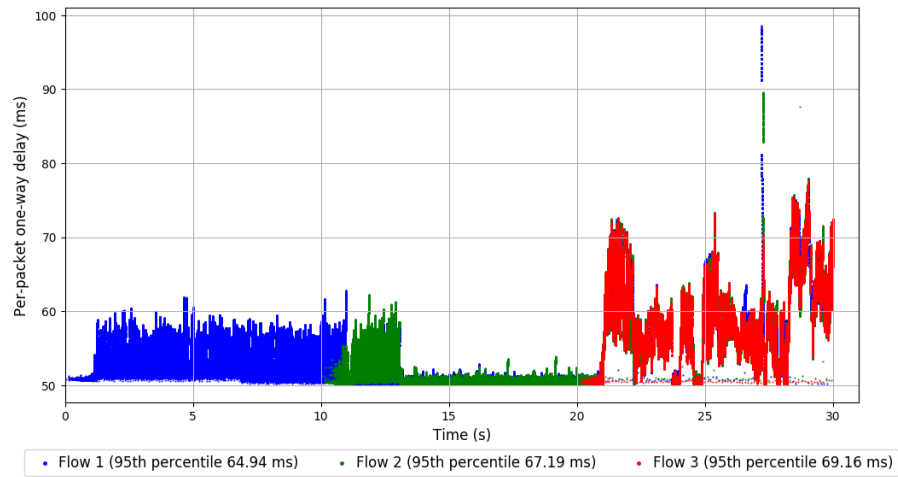
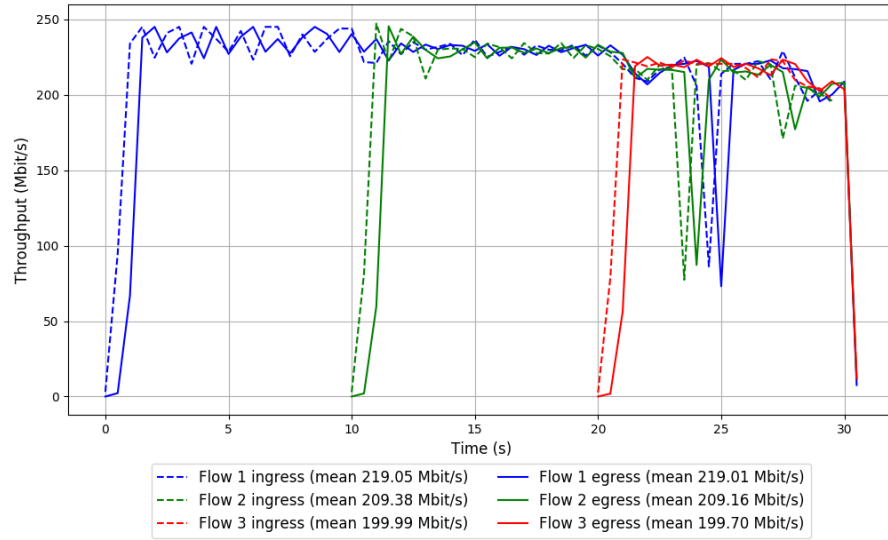
-- Flow 3:

Average throughput: 199.70 Mbit/s

95th percentile per-packet one-way delay: 69.159 ms

Loss rate: 0.15%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-06-20 10:48:40

End at: 2018-06-20 10:49:10

Local clock offset: -0.003 ms

Remote clock offset: 0.121 ms

Below is generated by plot.py at 2018-06-20 14:26:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 422.06 Mbit/s

95th percentile per-packet one-way delay: 63.693 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 214.87 Mbit/s

95th percentile per-packet one-way delay: 62.423 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 214.77 Mbit/s

95th percentile per-packet one-way delay: 64.326 ms

Loss rate: 0.15%

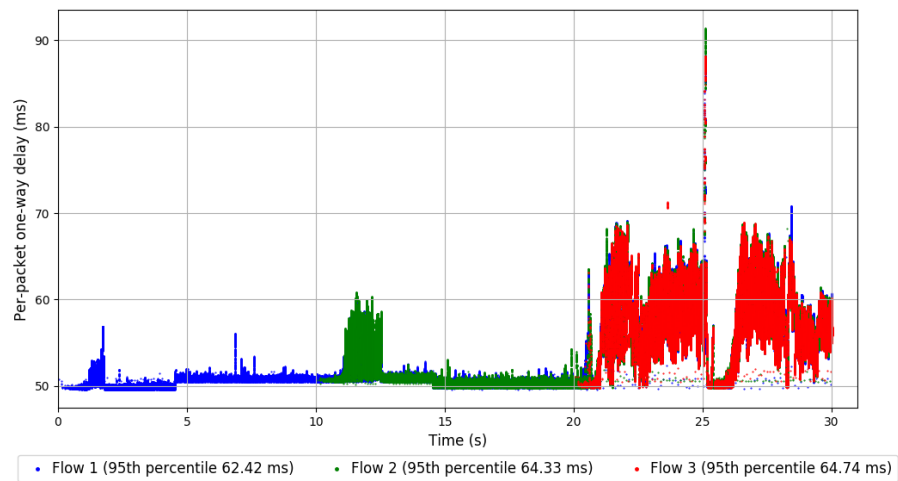
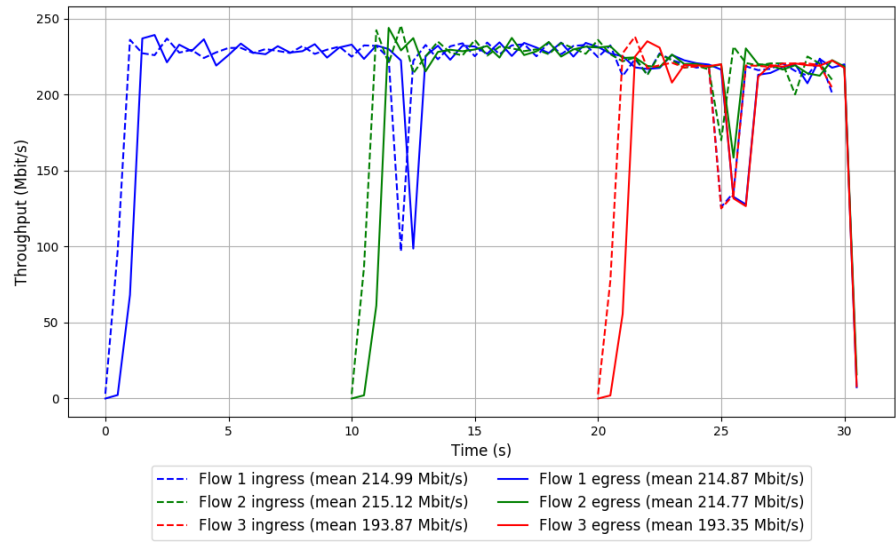
-- Flow 3:

Average throughput: 193.35 Mbit/s

95th percentile per-packet one-way delay: 64.737 ms

Loss rate: 0.27%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-06-20 11:12:06

End at: 2018-06-20 11:12:36

Local clock offset: -0.389 ms

Remote clock offset: 0.101 ms

Below is generated by plot.py at 2018-06-20 14:26:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 421.95 Mbit/s

95th percentile per-packet one-way delay: 69.488 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 215.21 Mbit/s

95th percentile per-packet one-way delay: 68.080 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 209.33 Mbit/s

95th percentile per-packet one-way delay: 69.976 ms

Loss rate: 0.08%

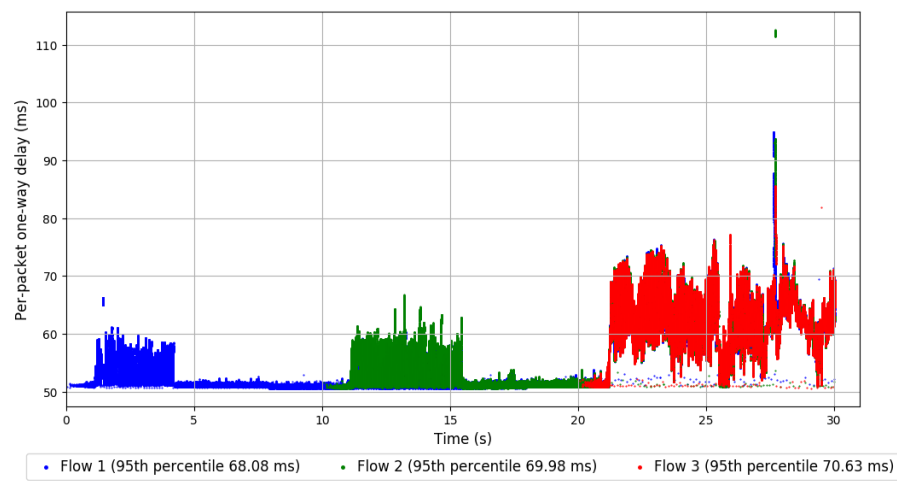
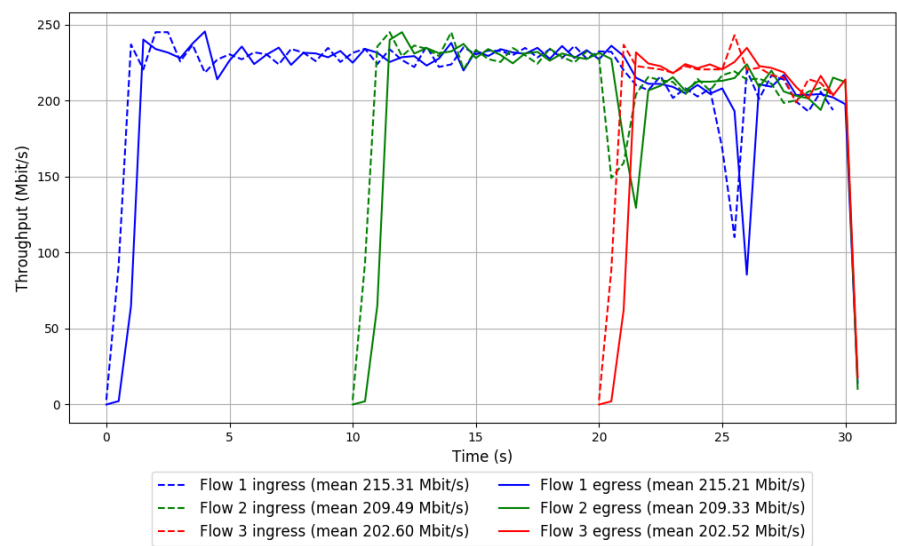
-- Flow 3:

Average throughput: 202.52 Mbit/s

95th percentile per-packet one-way delay: 70.630 ms

Loss rate: 0.09%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-06-20 11:35:22

End at: 2018-06-20 11:35:52

Local clock offset: -0.001 ms

Remote clock offset: 0.084 ms

Below is generated by plot.py at 2018-06-20 14:26:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 431.15 Mbit/s

95th percentile per-packet one-way delay: 63.628 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 220.25 Mbit/s

95th percentile per-packet one-way delay: 61.519 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 214.37 Mbit/s

95th percentile per-packet one-way delay: 64.027 ms

Loss rate: 0.00%

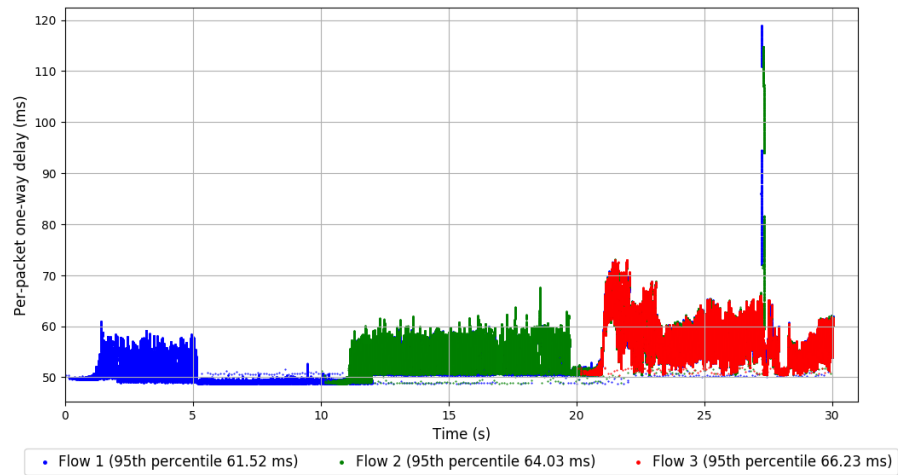
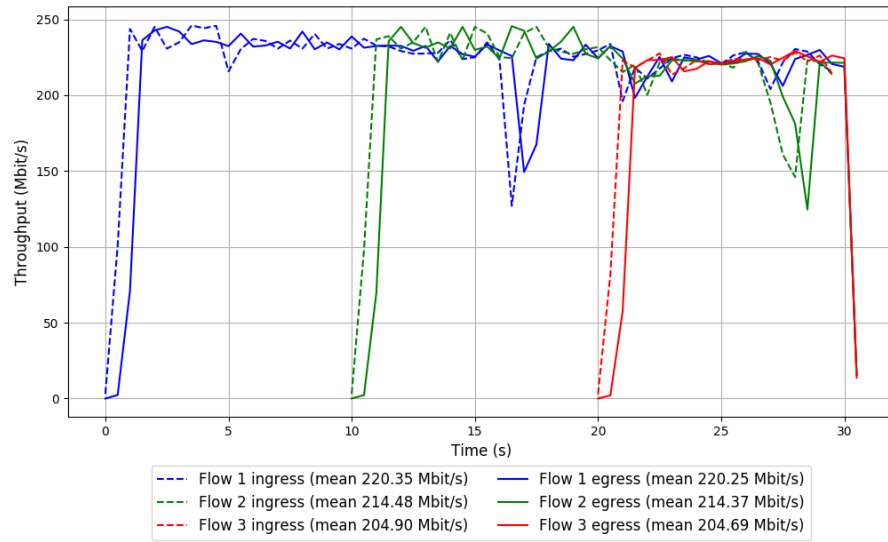
-- Flow 3:

Average throughput: 204.69 Mbit/s

95th percentile per-packet one-way delay: 66.229 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-06-20 11:58:21

End at: 2018-06-20 11:58:51

Local clock offset: -0.019 ms

Remote clock offset: 0.067 ms

Below is generated by plot.py at 2018-06-20 14:26:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 425.56 Mbit/s

95th percentile per-packet one-way delay: 67.933 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 217.32 Mbit/s

95th percentile per-packet one-way delay: 66.968 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 211.67 Mbit/s

95th percentile per-packet one-way delay: 68.124 ms

Loss rate: 0.07%

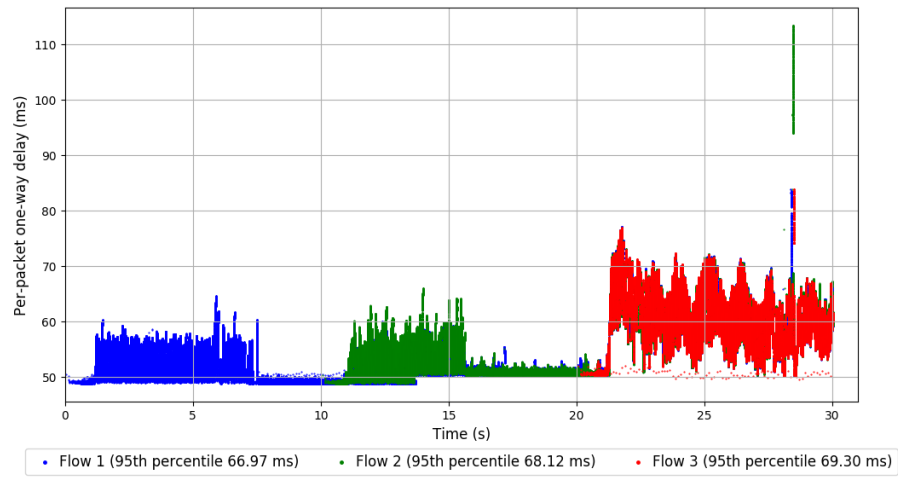
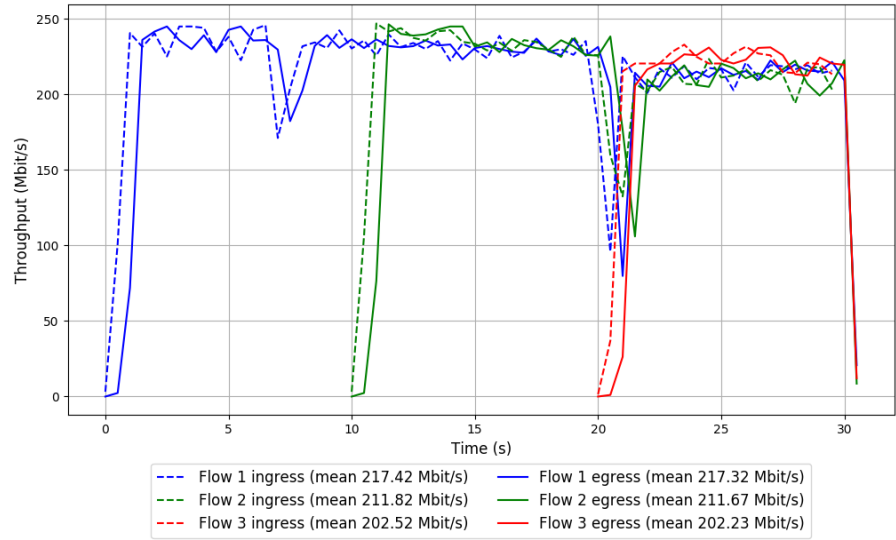
-- Flow 3:

Average throughput: 202.23 Mbit/s

95th percentile per-packet one-way delay: 69.296 ms

Loss rate: 0.15%

Run 5: Report of TCP BBR — Data Link

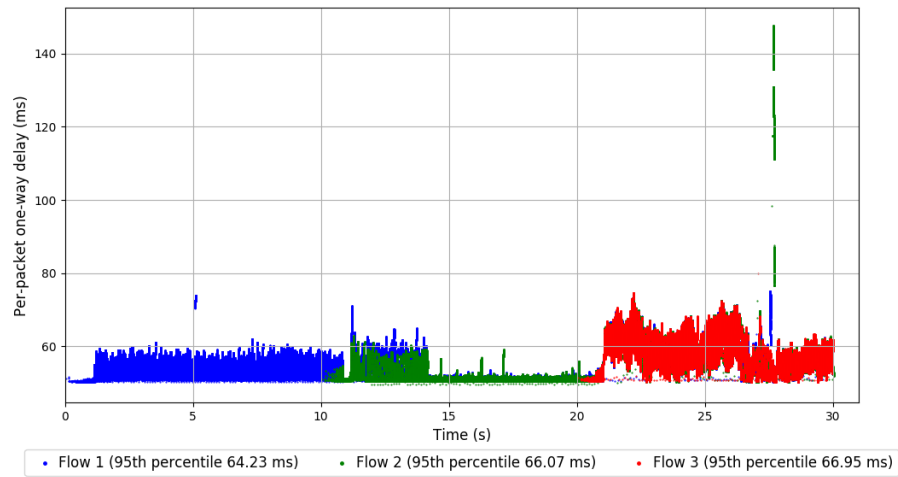
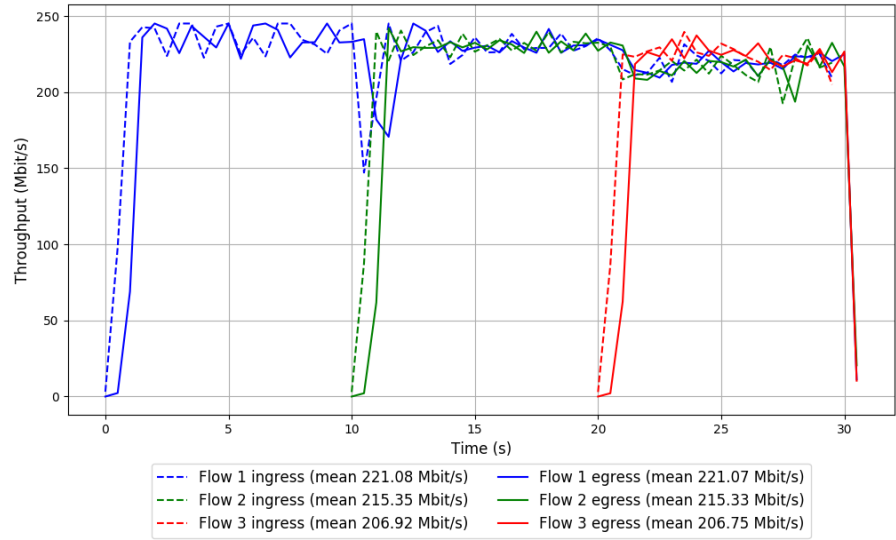


Run 6: Statistics of TCP BBR

Start at: 2018-06-20 12:21:22
End at: 2018-06-20 12:21:52
Local clock offset: 0.054 ms
Remote clock offset: -0.036 ms

Below is generated by plot.py at 2018-06-20 14:26:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 433.19 Mbit/s
95th percentile per-packet one-way delay: 65.636 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 221.07 Mbit/s
95th percentile per-packet one-way delay: 64.229 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 215.33 Mbit/s
95th percentile per-packet one-way delay: 66.073 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 206.75 Mbit/s
95th percentile per-packet one-way delay: 66.946 ms
Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-06-20 12:44:30

End at: 2018-06-20 12:45:00

Local clock offset: 0.125 ms

Remote clock offset: -0.1 ms

Below is generated by plot.py at 2018-06-20 14:26:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 424.28 Mbit/s

95th percentile per-packet one-way delay: 64.772 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 215.35 Mbit/s

95th percentile per-packet one-way delay: 63.392 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 212.11 Mbit/s

95th percentile per-packet one-way delay: 64.759 ms

Loss rate: 0.02%

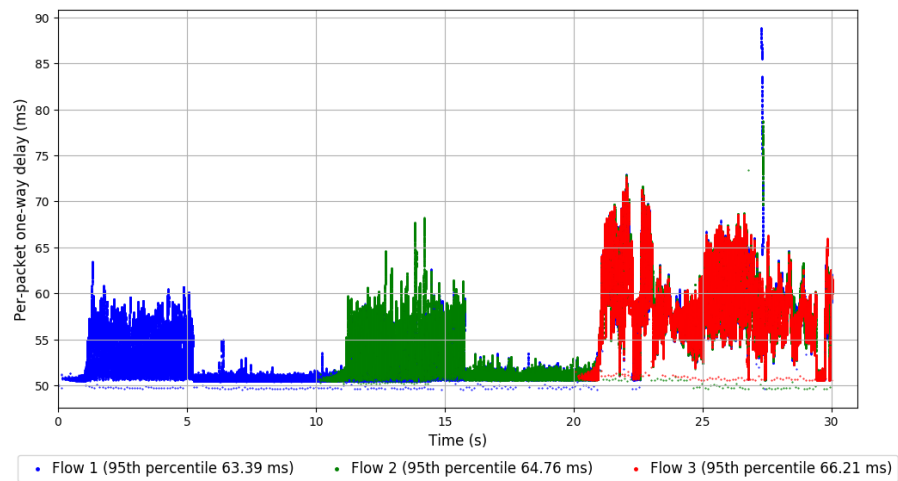
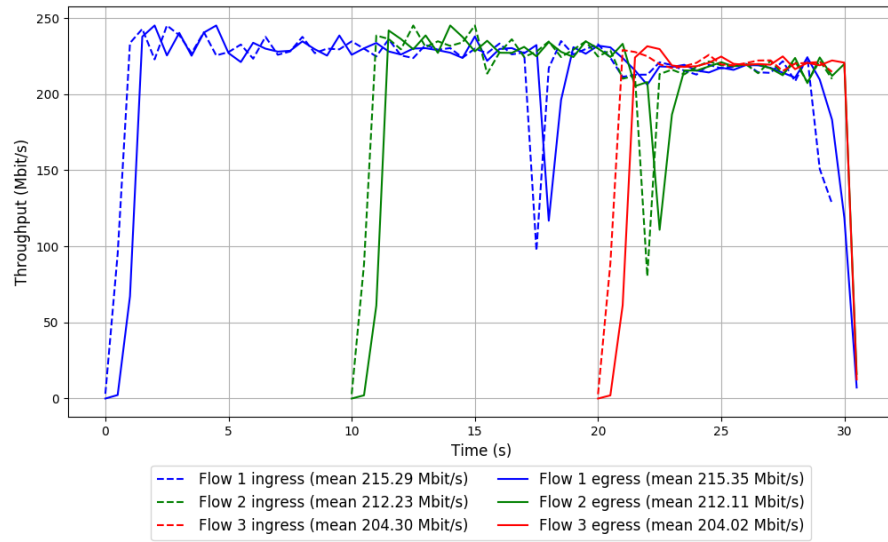
-- Flow 3:

Average throughput: 204.02 Mbit/s

95th percentile per-packet one-way delay: 66.210 ms

Loss rate: 0.15%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-06-20 13:07:22

End at: 2018-06-20 13:07:52

Local clock offset: 0.121 ms

Remote clock offset: 0.003 ms

Below is generated by plot.py at 2018-06-20 14:26:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 415.31 Mbit/s

95th percentile per-packet one-way delay: 64.002 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 211.49 Mbit/s

95th percentile per-packet one-way delay: 62.241 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 207.99 Mbit/s

95th percentile per-packet one-way delay: 63.913 ms

Loss rate: 0.14%

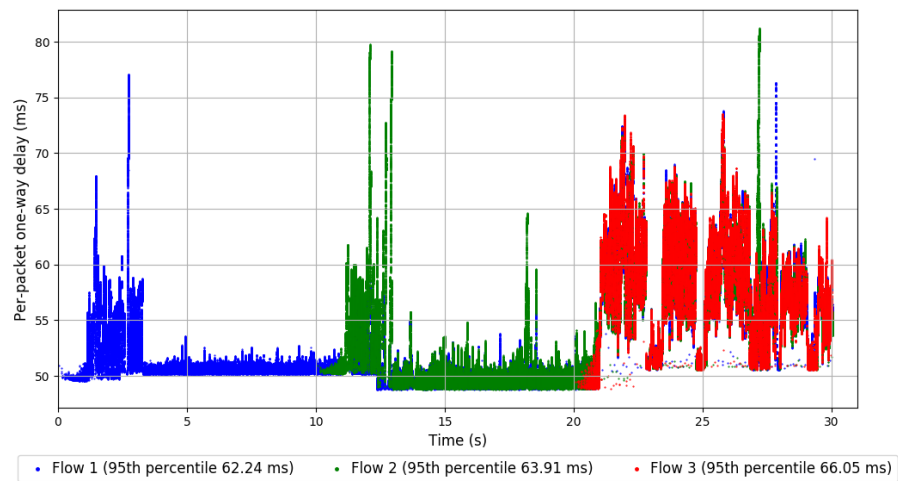
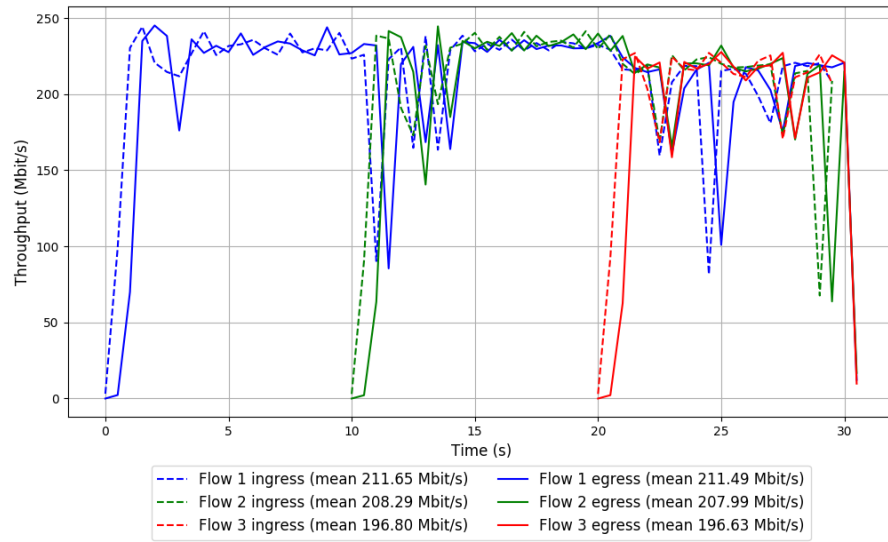
-- Flow 3:

Average throughput: 196.63 Mbit/s

95th percentile per-packet one-way delay: 66.046 ms

Loss rate: 0.21%

Run 8: Report of TCP BBR — Data Link

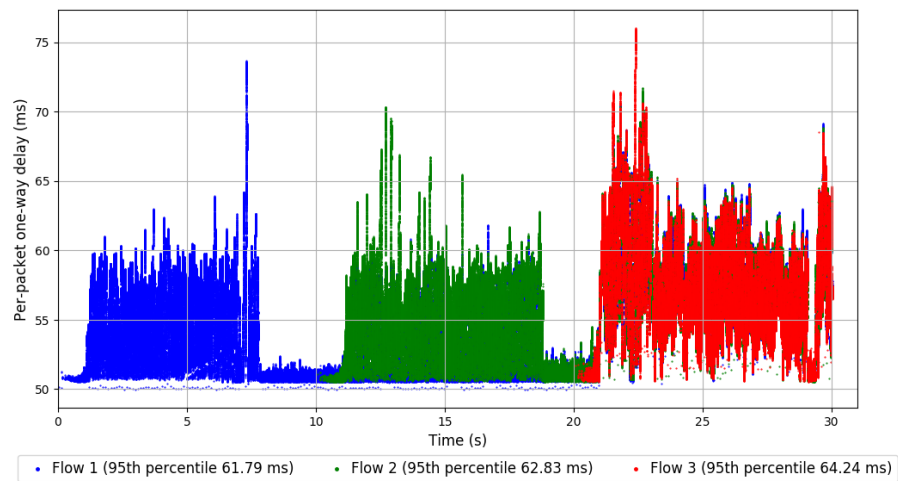
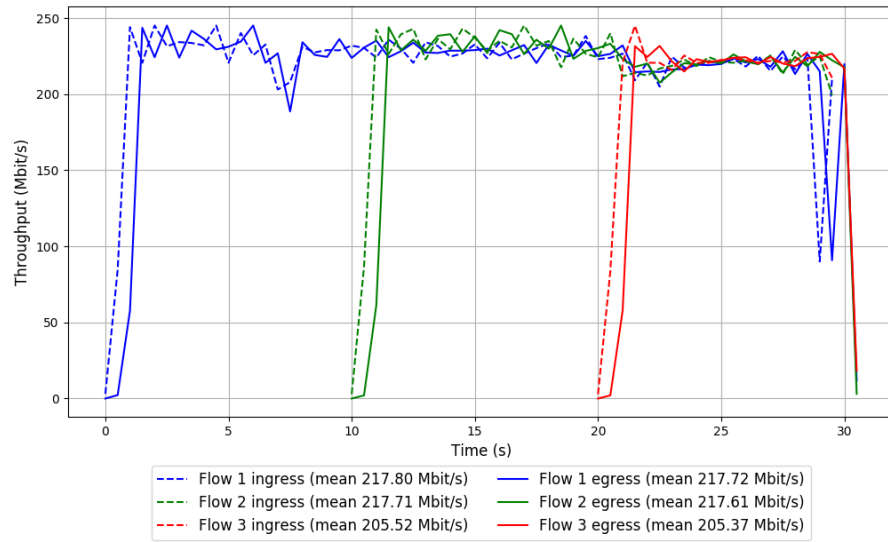


Run 9: Statistics of TCP BBR

Start at: 2018-06-20 13:30:18
End at: 2018-06-20 13:30:48
Local clock offset: -0.321 ms
Remote clock offset: -0.036 ms

Below is generated by plot.py at 2018-06-20 14:33:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 430.88 Mbit/s
95th percentile per-packet one-way delay: 62.704 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 217.72 Mbit/s
95th percentile per-packet one-way delay: 61.786 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 217.61 Mbit/s
95th percentile per-packet one-way delay: 62.833 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 205.37 Mbit/s
95th percentile per-packet one-way delay: 64.241 ms
Loss rate: 0.08%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-06-20 13:53:26

End at: 2018-06-20 13:53:56

Local clock offset: 0.053 ms

Remote clock offset: 0.031 ms

Below is generated by plot.py at 2018-06-20 14:33:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 422.28 Mbit/s

95th percentile per-packet one-way delay: 64.187 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 220.30 Mbit/s

95th percentile per-packet one-way delay: 62.355 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 212.85 Mbit/s

95th percentile per-packet one-way delay: 64.691 ms

Loss rate: 0.06%

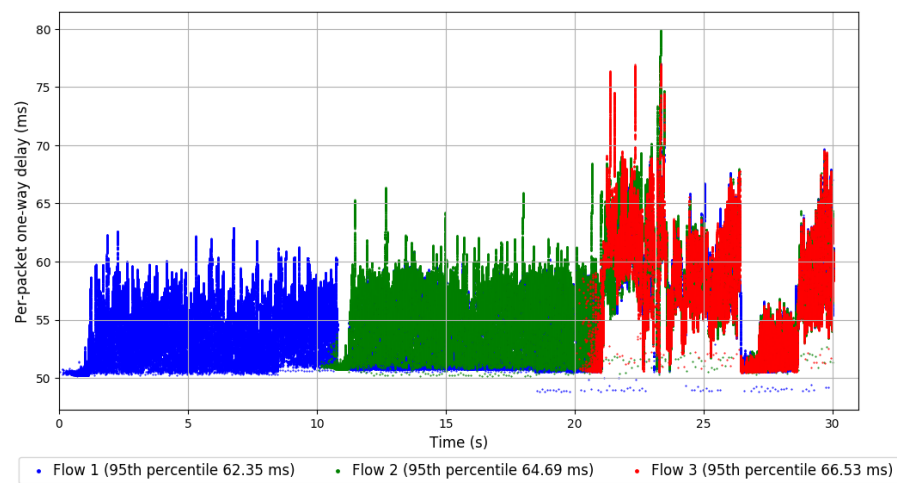
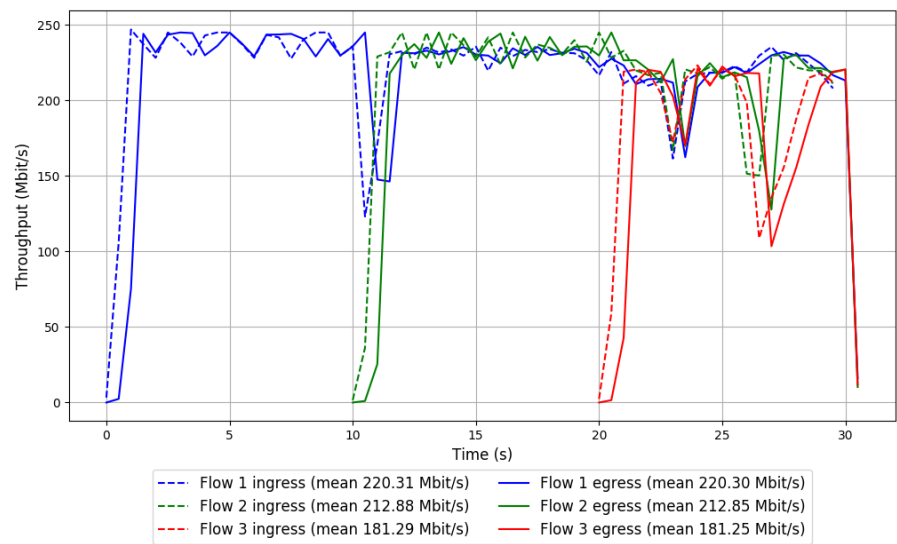
-- Flow 3:

Average throughput: 181.25 Mbit/s

95th percentile per-packet one-way delay: 66.530 ms

Loss rate: 0.14%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-06-20 10:24:00

End at: 2018-06-20 10:24:30

Local clock offset: -0.041 ms

Remote clock offset: 0.017 ms

Below is generated by plot.py at 2018-06-20 14:36:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 314.73 Mbit/s

95th percentile per-packet one-way delay: 56.448 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 166.65 Mbit/s

95th percentile per-packet one-way delay: 56.768 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 151.26 Mbit/s

95th percentile per-packet one-way delay: 55.667 ms

Loss rate: 0.00%

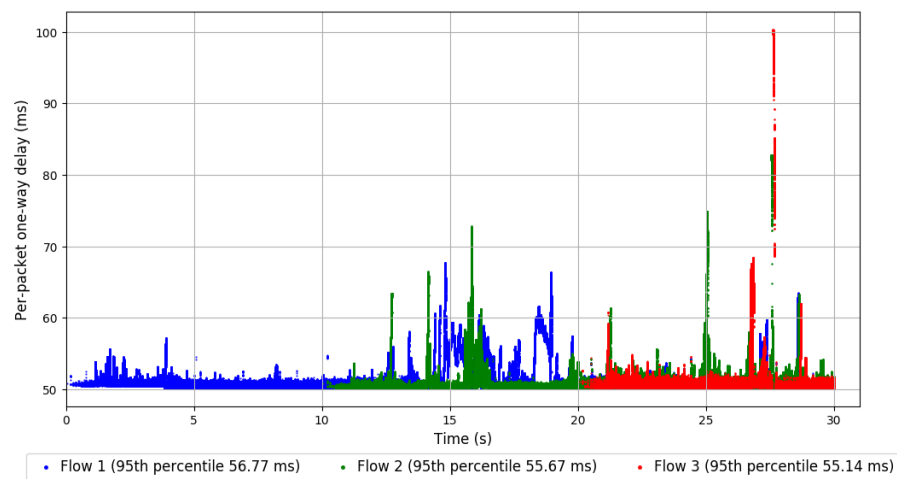
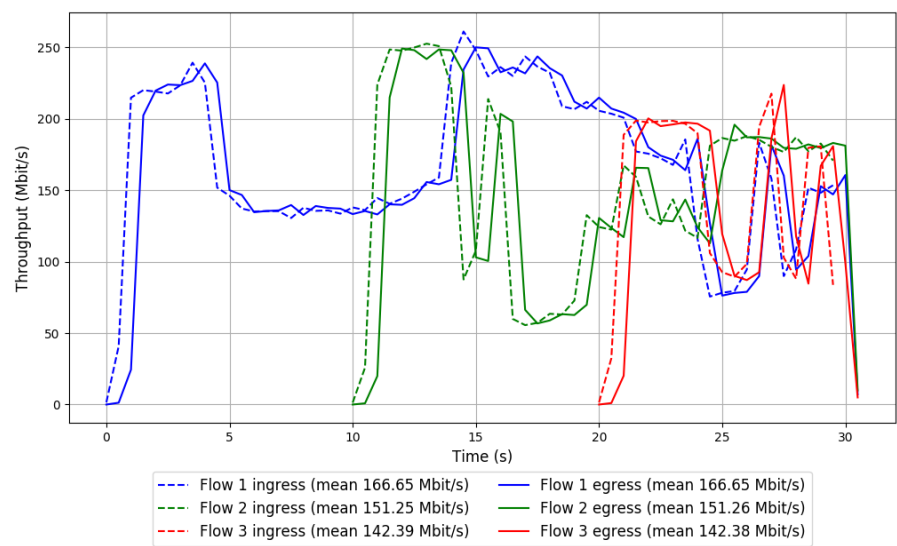
-- Flow 3:

Average throughput: 142.38 Mbit/s

95th percentile per-packet one-way delay: 55.144 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-06-20 10:47:06

End at: 2018-06-20 10:47:36

Local clock offset: -0.01 ms

Remote clock offset: 0.102 ms

Below is generated by plot.py at 2018-06-20 14:36:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 283.94 Mbit/s

95th percentile per-packet one-way delay: 59.280 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 181.39 Mbit/s

95th percentile per-packet one-way delay: 59.224 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 109.17 Mbit/s

95th percentile per-packet one-way delay: 56.536 ms

Loss rate: 0.00%

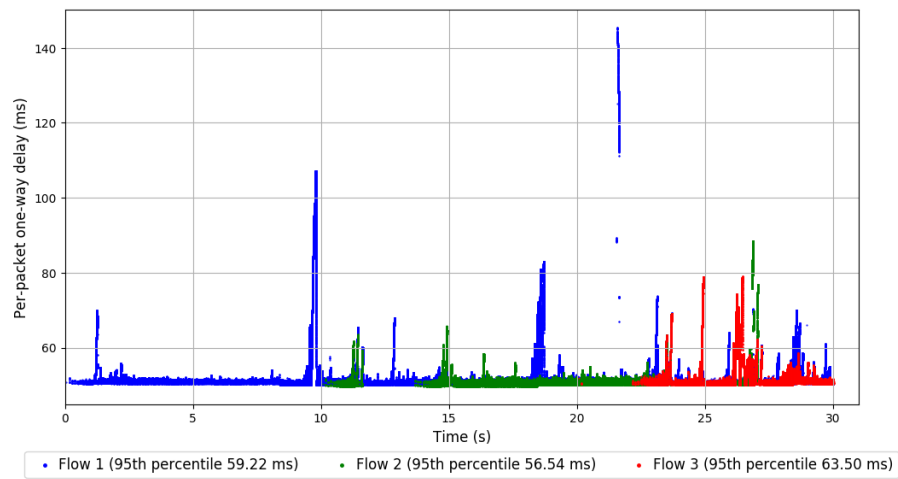
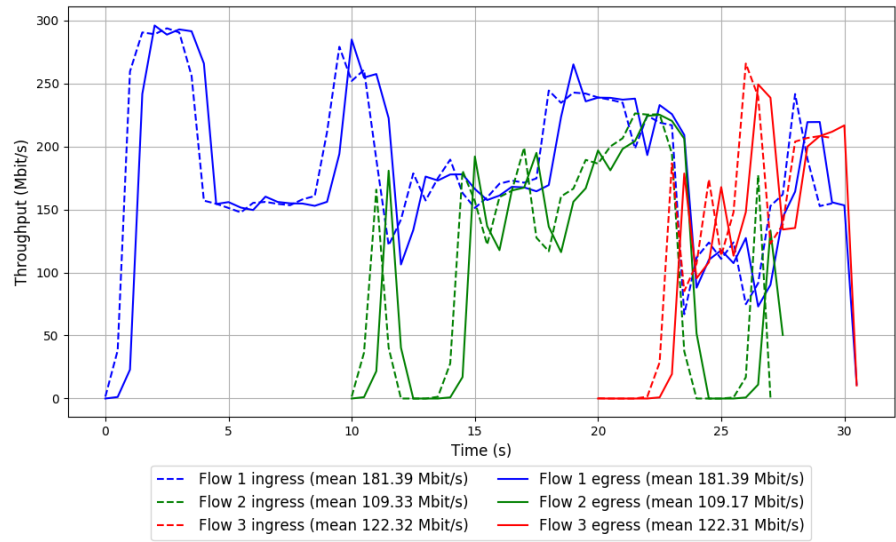
-- Flow 3:

Average throughput: 122.31 Mbit/s

95th percentile per-packet one-way delay: 63.504 ms

Loss rate: 0.02%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-06-20 11:10:32

End at: 2018-06-20 11:11:02

Local clock offset: -0.033 ms

Remote clock offset: 0.112 ms

Below is generated by plot.py at 2018-06-20 14:36:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 287.11 Mbit/s

95th percentile per-packet one-way delay: 60.562 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 172.43 Mbit/s

95th percentile per-packet one-way delay: 61.118 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 135.74 Mbit/s

95th percentile per-packet one-way delay: 59.426 ms

Loss rate: 0.00%

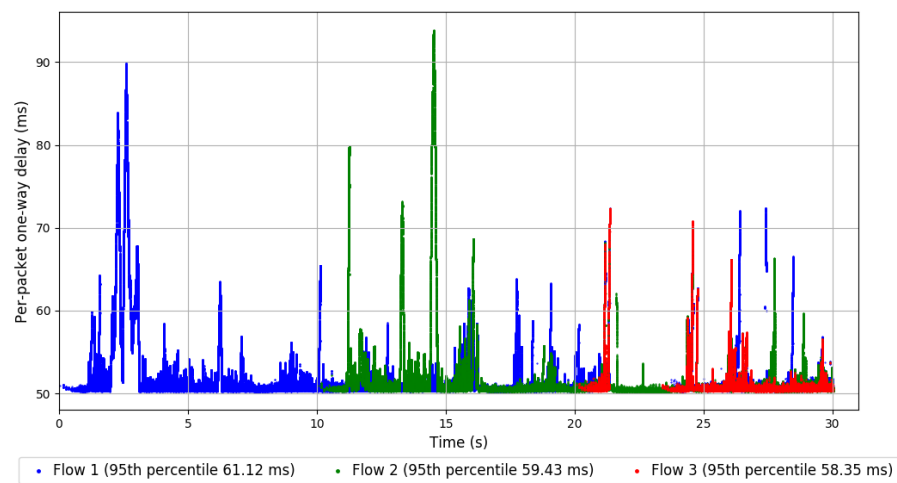
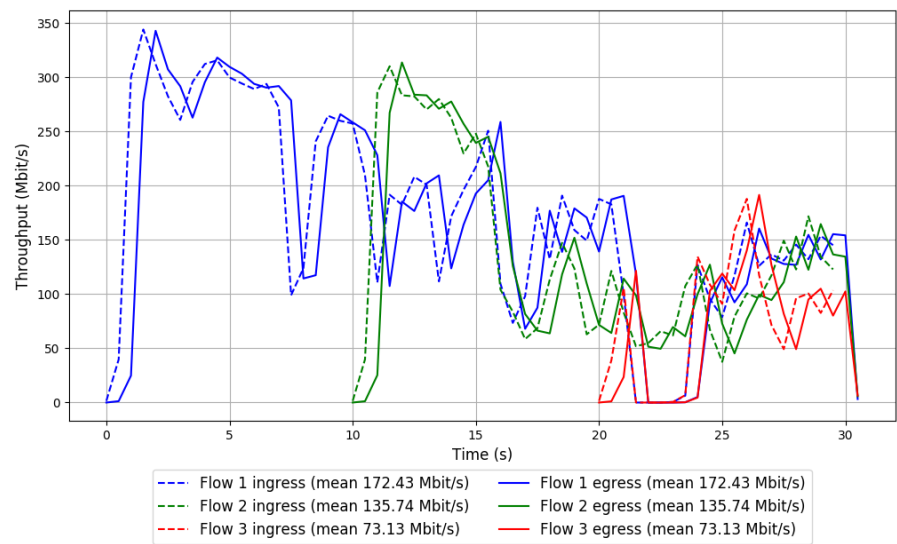
-- Flow 3:

Average throughput: 73.13 Mbit/s

95th percentile per-packet one-way delay: 58.349 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-06-20 11:33:48

End at: 2018-06-20 11:34:18

Local clock offset: 0.023 ms

Remote clock offset: 0.058 ms

Below is generated by plot.py at 2018-06-20 14:36:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 290.28 Mbit/s

95th percentile per-packet one-way delay: 52.292 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 144.79 Mbit/s

95th percentile per-packet one-way delay: 51.659 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 170.45 Mbit/s

95th percentile per-packet one-way delay: 53.197 ms

Loss rate: 0.00%

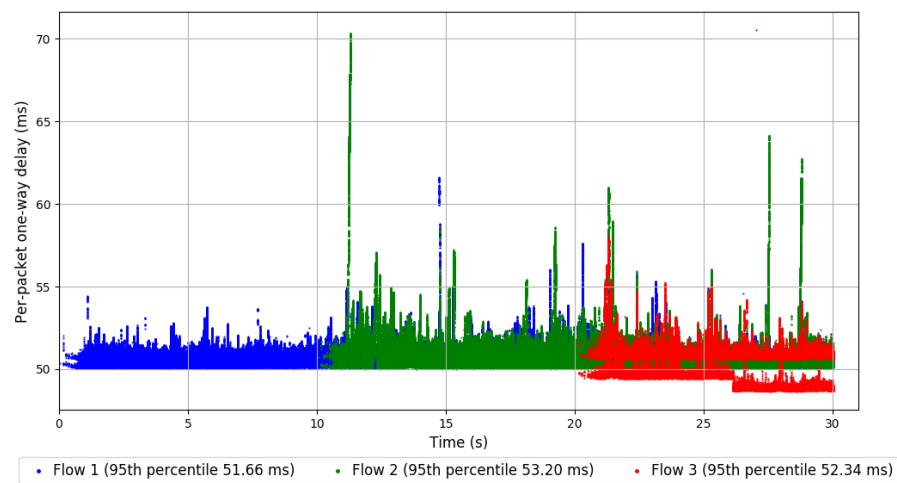
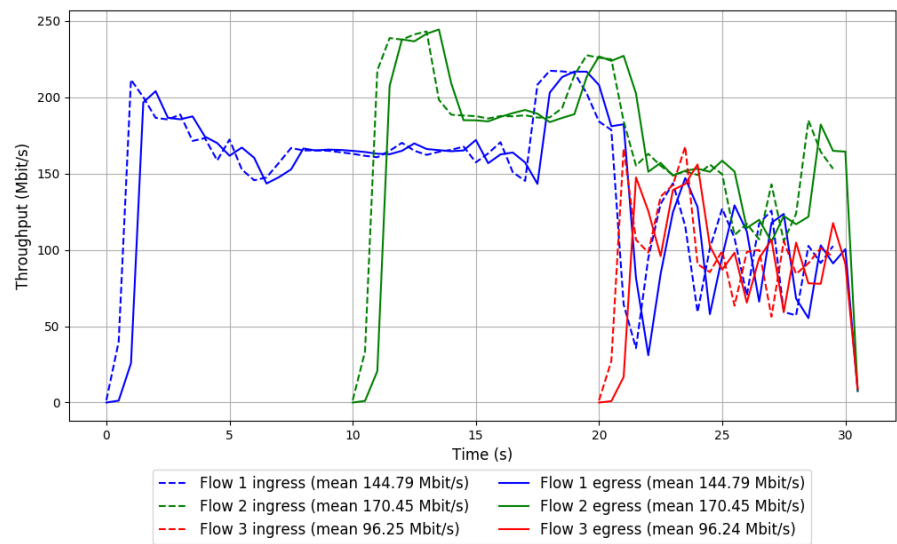
-- Flow 3:

Average throughput: 96.24 Mbit/s

95th percentile per-packet one-way delay: 52.338 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-06-20 11:56:44

End at: 2018-06-20 11:57:14

Local clock offset: -0.059 ms

Remote clock offset: 0.047 ms

Below is generated by plot.py at 2018-06-20 14:36:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 317.16 Mbit/s

95th percentile per-packet one-way delay: 55.338 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 184.66 Mbit/s

95th percentile per-packet one-way delay: 53.762 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 131.51 Mbit/s

95th percentile per-packet one-way delay: 56.139 ms

Loss rate: 0.00%

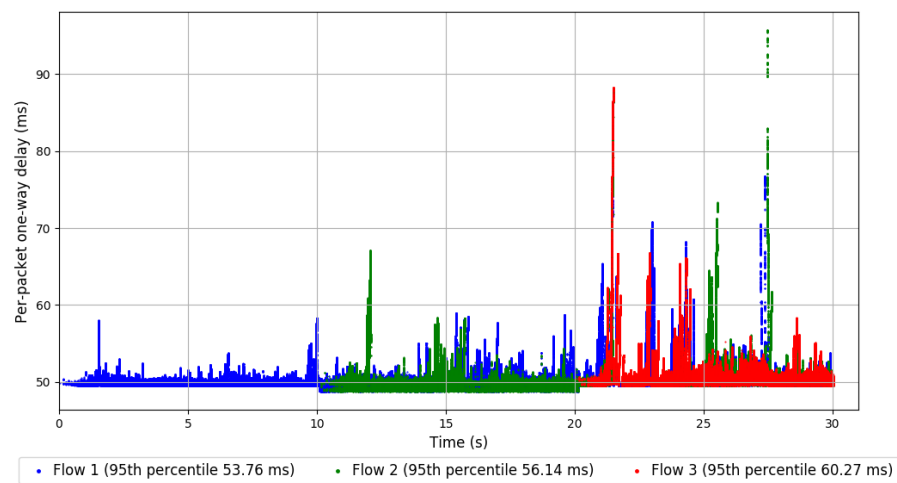
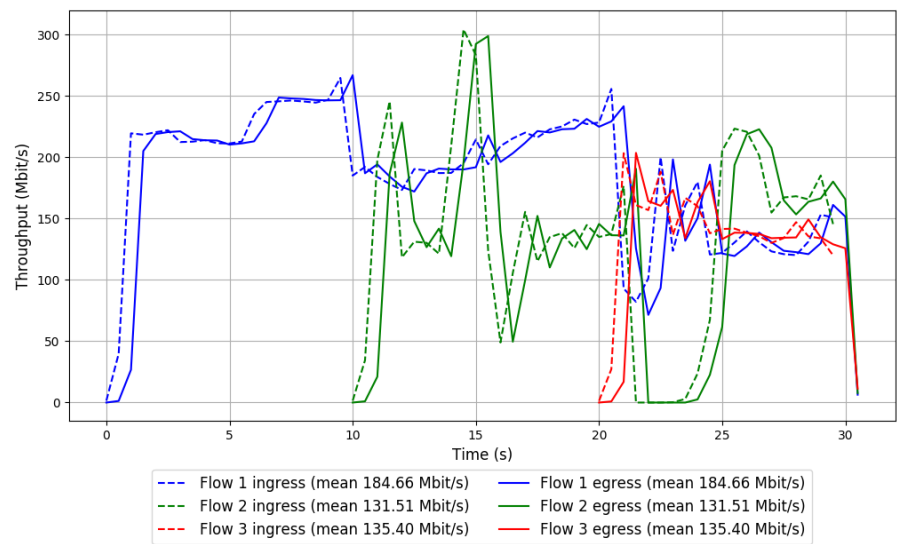
-- Flow 3:

Average throughput: 135.40 Mbit/s

95th percentile per-packet one-way delay: 60.267 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link

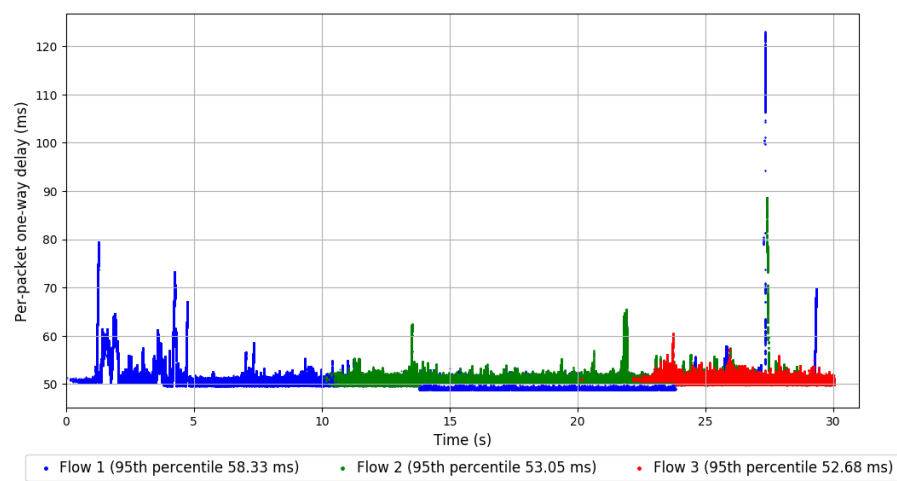
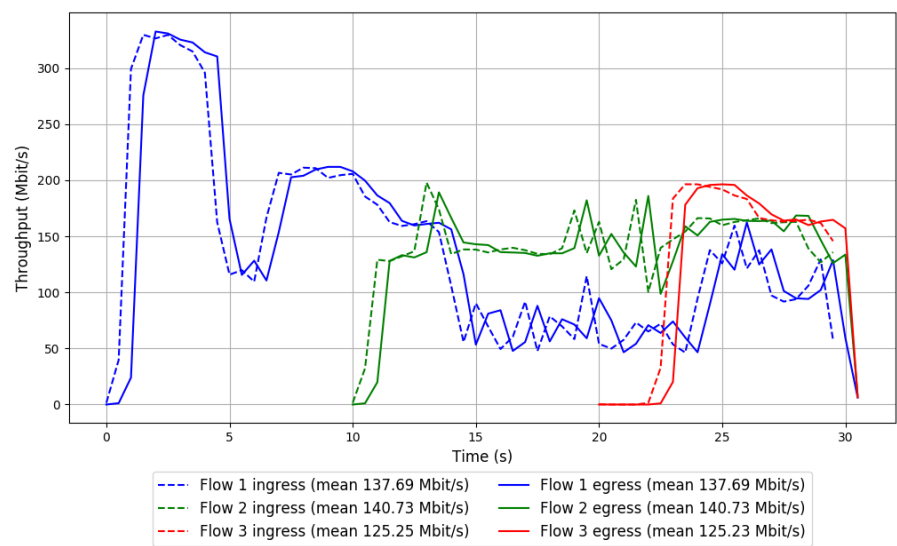


Run 6: Statistics of Copa

Start at: 2018-06-20 12:19:50
End at: 2018-06-20 12:20:20
Local clock offset: -0.032 ms
Remote clock offset: -0.001 ms

Below is generated by plot.py at 2018-06-20 14:36:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 273.03 Mbit/s
95th percentile per-packet one-way delay: 55.430 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 137.69 Mbit/s
95th percentile per-packet one-way delay: 58.332 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 140.73 Mbit/s
95th percentile per-packet one-way delay: 53.050 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 125.23 Mbit/s
95th percentile per-packet one-way delay: 52.684 ms
Loss rate: 0.02%

Run 6: Report of Copa — Data Link

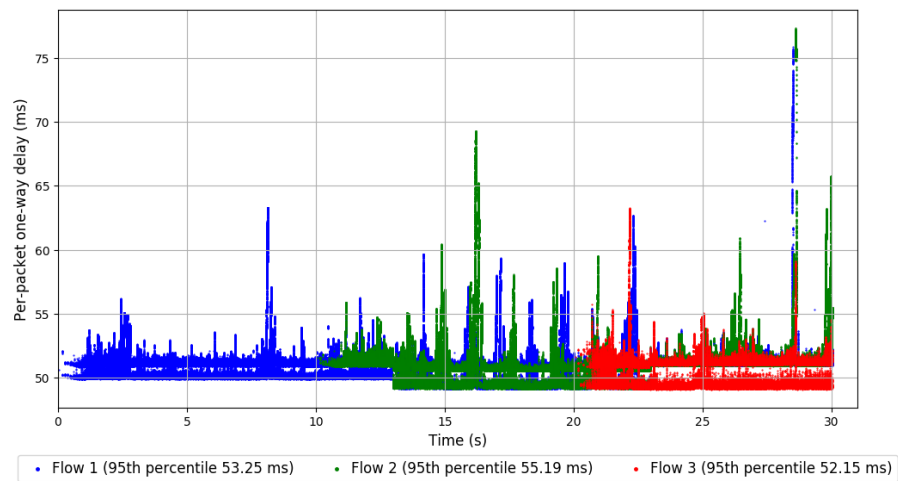
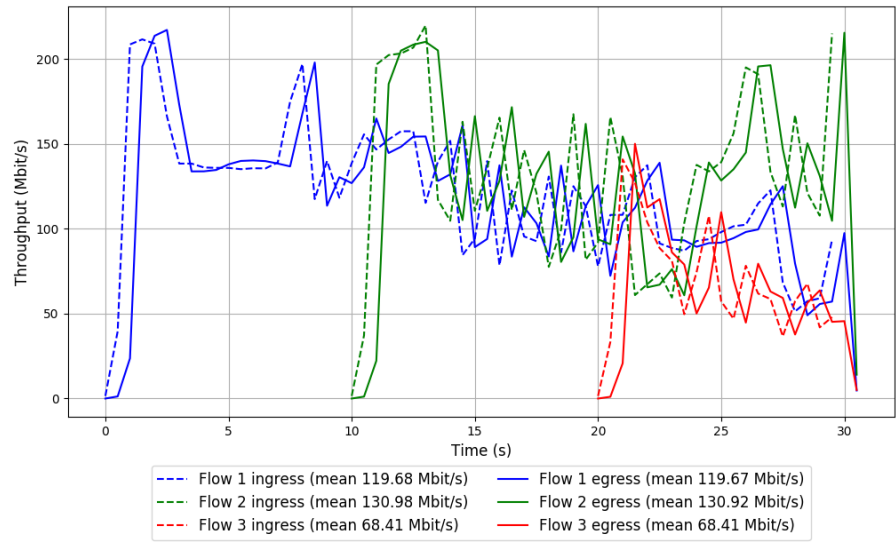


Run 7: Statistics of Copa

Start at: 2018-06-20 12:43:01
End at: 2018-06-20 12:43:31
Local clock offset: -0.275 ms
Remote clock offset: -0.082 ms

Below is generated by plot.py at 2018-06-20 14:40:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 229.59 Mbit/s
95th percentile per-packet one-way delay: 53.920 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 119.67 Mbit/s
95th percentile per-packet one-way delay: 53.247 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 130.92 Mbit/s
95th percentile per-packet one-way delay: 55.186 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 68.41 Mbit/s
95th percentile per-packet one-way delay: 52.154 ms
Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-06-20 13:05:50

End at: 2018-06-20 13:06:20

Local clock offset: 0.154 ms

Remote clock offset: 0.011 ms

Below is generated by plot.py at 2018-06-20 14:42:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 268.84 Mbit/s

95th percentile per-packet one-way delay: 55.269 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 161.61 Mbit/s

95th percentile per-packet one-way delay: 55.102 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 117.51 Mbit/s

95th percentile per-packet one-way delay: 53.769 ms

Loss rate: 0.17%

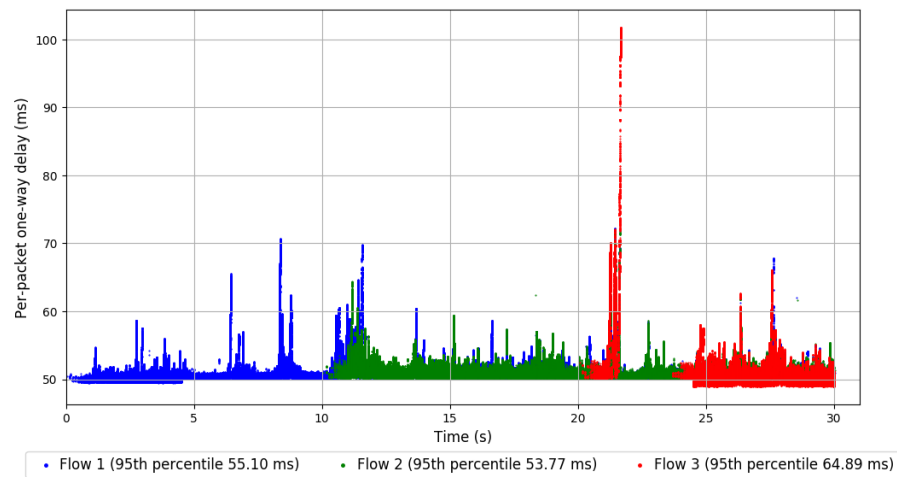
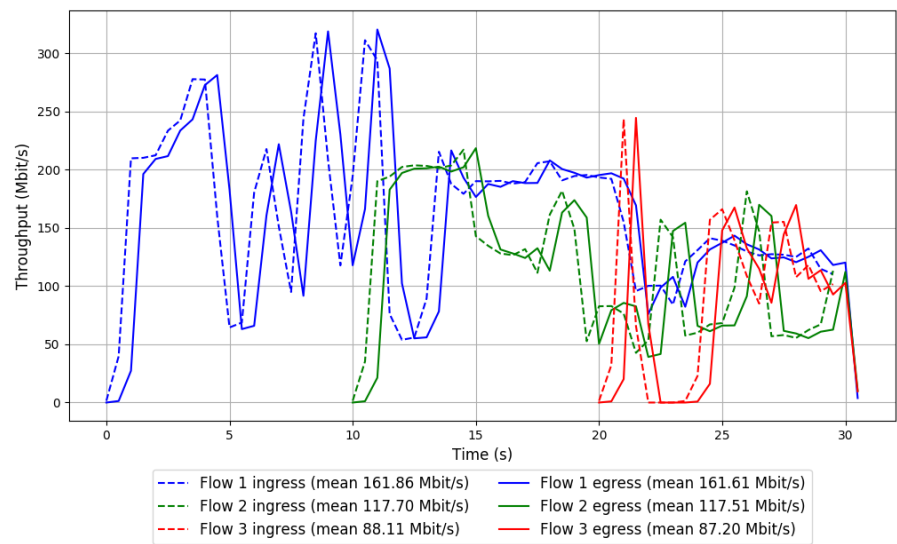
-- Flow 3:

Average throughput: 87.20 Mbit/s

95th percentile per-packet one-way delay: 64.892 ms

Loss rate: 1.05%

Run 8: Report of Copa — Data Link

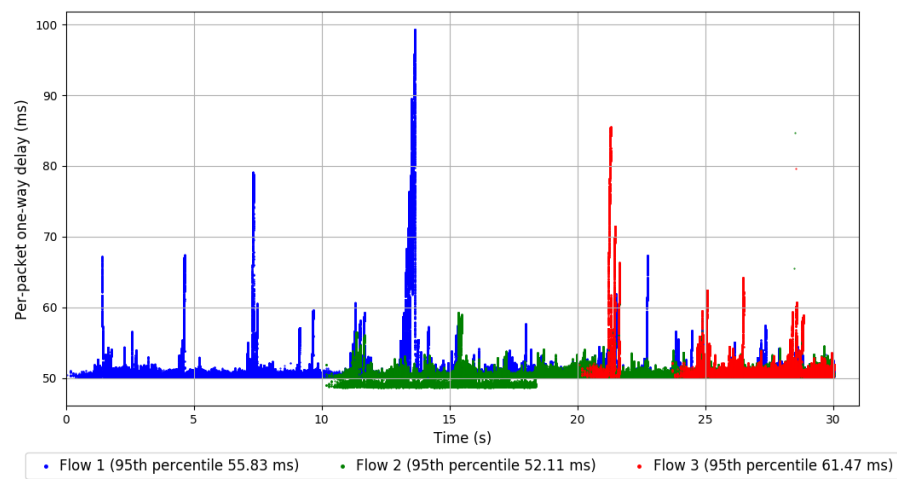
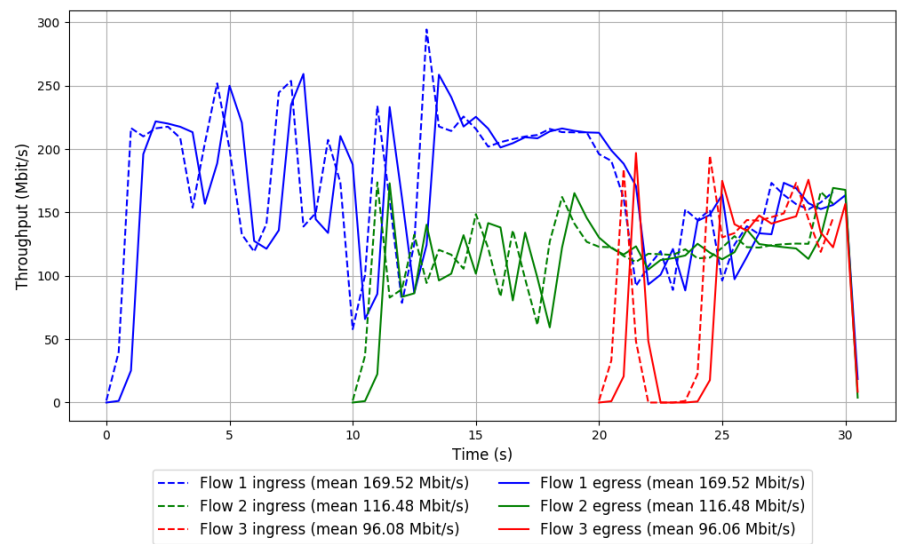


Run 9: Statistics of Copa

Start at: 2018-06-20 13:28:46
End at: 2018-06-20 13:29:16
Local clock offset: 0.047 ms
Remote clock offset: -0.073 ms

Below is generated by plot.py at 2018-06-20 14:43:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 279.05 Mbit/s
95th percentile per-packet one-way delay: 55.048 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 169.52 Mbit/s
95th percentile per-packet one-way delay: 55.831 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 116.48 Mbit/s
95th percentile per-packet one-way delay: 52.111 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 96.06 Mbit/s
95th percentile per-packet one-way delay: 61.471 ms
Loss rate: 0.03%

Run 9: Report of Copa — Data Link

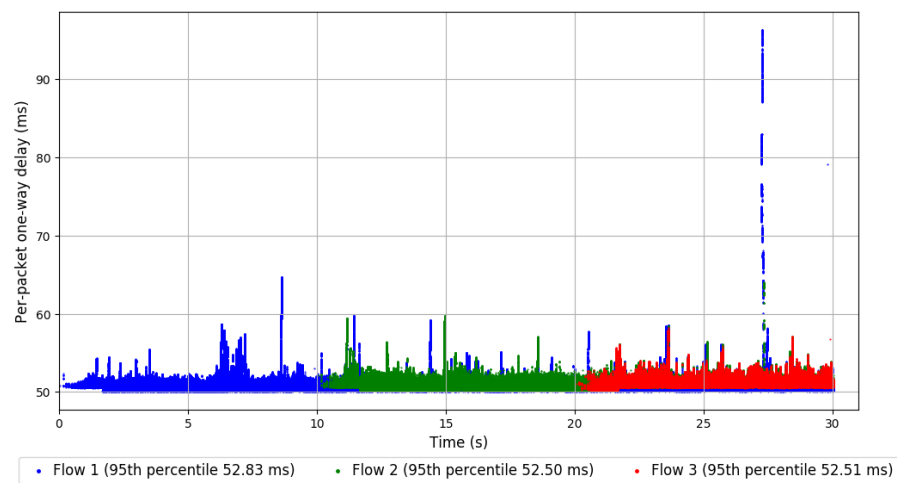
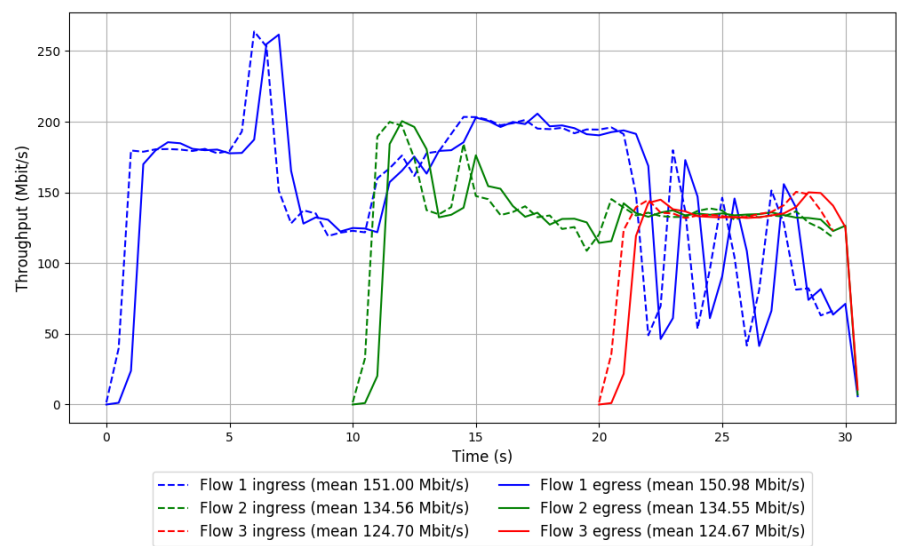


Run 10: Statistics of Copa

Start at: 2018-06-20 13:51:53
End at: 2018-06-20 13:52:23
Local clock offset: 0.007 ms
Remote clock offset: -0.059 ms

Below is generated by plot.py at 2018-06-20 14:44:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 282.01 Mbit/s
95th percentile per-packet one-way delay: 52.634 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 150.98 Mbit/s
95th percentile per-packet one-way delay: 52.830 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 134.55 Mbit/s
95th percentile per-packet one-way delay: 52.497 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 124.67 Mbit/s
95th percentile per-packet one-way delay: 52.510 ms
Loss rate: 0.03%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-06-20 10:19:46

End at: 2018-06-20 10:20:16

Local clock offset: -0.001 ms

Remote clock offset: 0.046 ms

Below is generated by plot.py at 2018-06-20 14:44:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 350.86 Mbit/s

95th percentile per-packet one-way delay: 61.066 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 198.84 Mbit/s

95th percentile per-packet one-way delay: 60.588 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 225.38 Mbit/s

95th percentile per-packet one-way delay: 61.812 ms

Loss rate: 0.06%

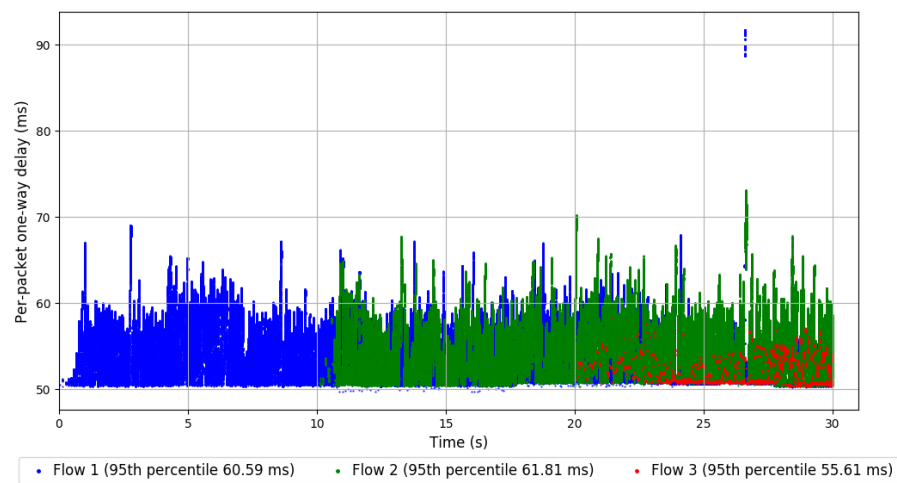
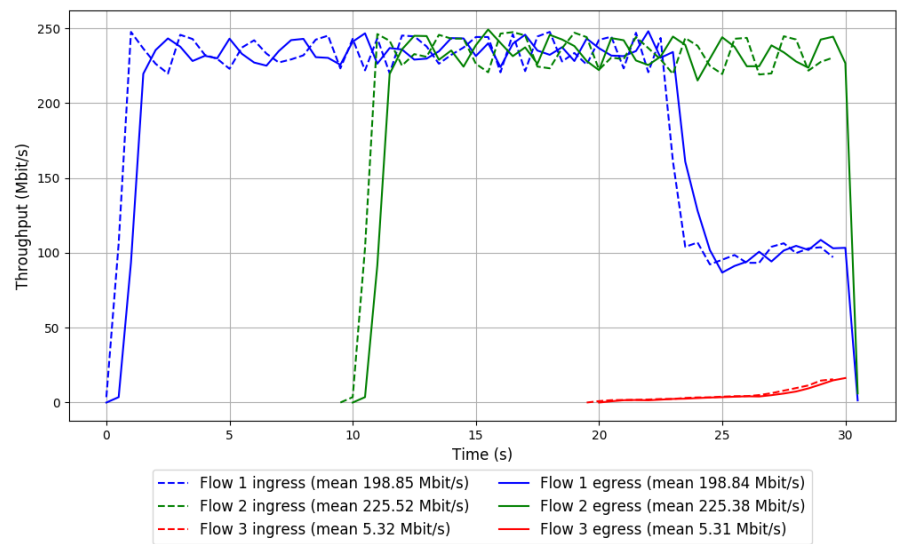
-- Flow 3:

Average throughput: 5.31 Mbit/s

95th percentile per-packet one-way delay: 55.607 ms

Loss rate: 0.11%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-06-20 10:42:59

End at: 2018-06-20 10:43:29

Local clock offset: -0.005 ms

Remote clock offset: 0.125 ms

Below is generated by plot.py at 2018-06-20 14:44:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 261.58 Mbit/s

95th percentile per-packet one-way delay: 58.385 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 176.63 Mbit/s

95th percentile per-packet one-way delay: 59.011 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 125.08 Mbit/s

95th percentile per-packet one-way delay: 54.417 ms

Loss rate: 0.00%

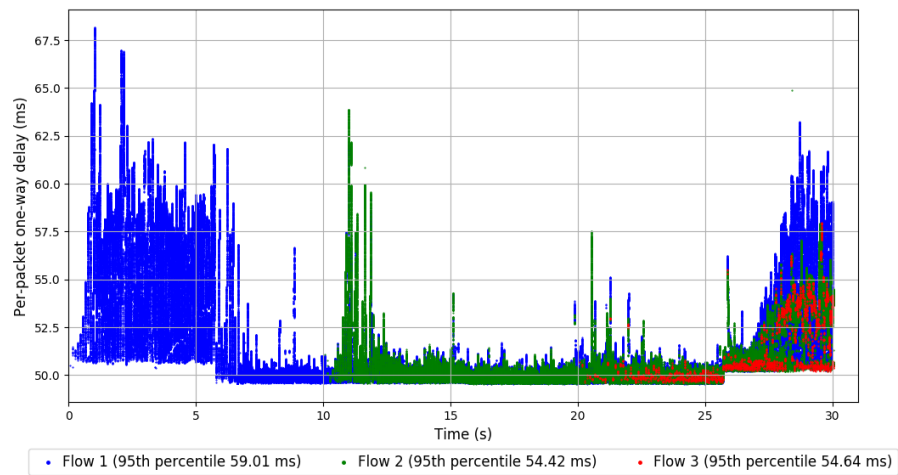
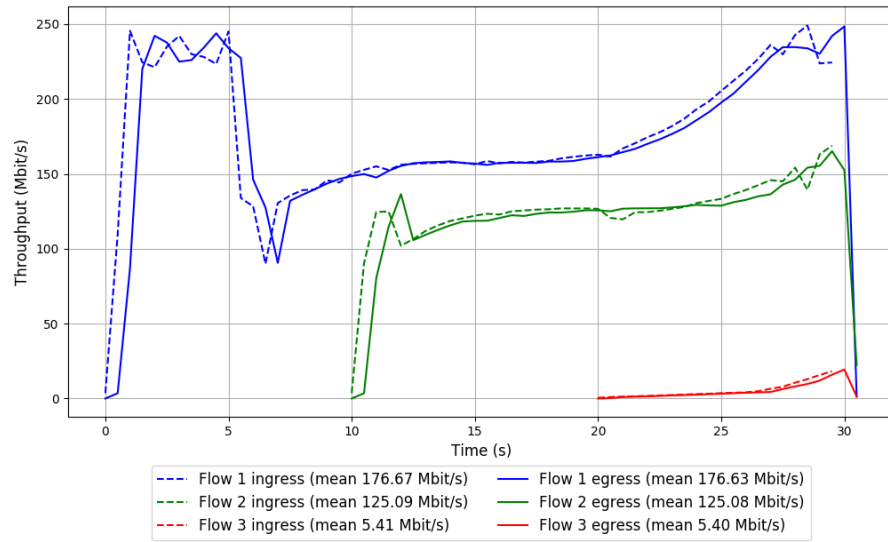
-- Flow 3:

Average throughput: 5.40 Mbit/s

95th percentile per-packet one-way delay: 54.641 ms

Loss rate: 0.16%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-06-20 11:06:12

End at: 2018-06-20 11:06:42

Local clock offset: -0.013 ms

Remote clock offset: 0.147 ms

Below is generated by plot.py at 2018-06-20 14:44:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 392.25 Mbit/s

95th percentile per-packet one-way delay: 64.649 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 171.81 Mbit/s

95th percentile per-packet one-way delay: 61.880 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 224.79 Mbit/s

95th percentile per-packet one-way delay: 66.140 ms

Loss rate: 0.07%

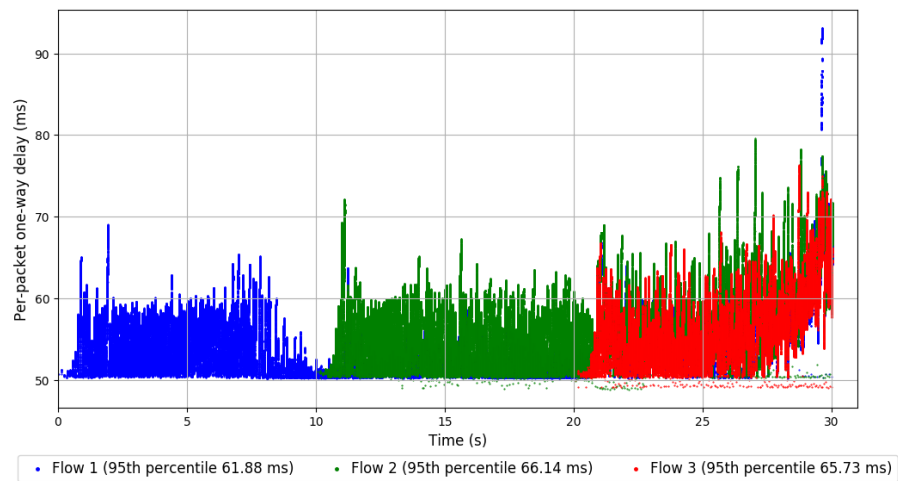
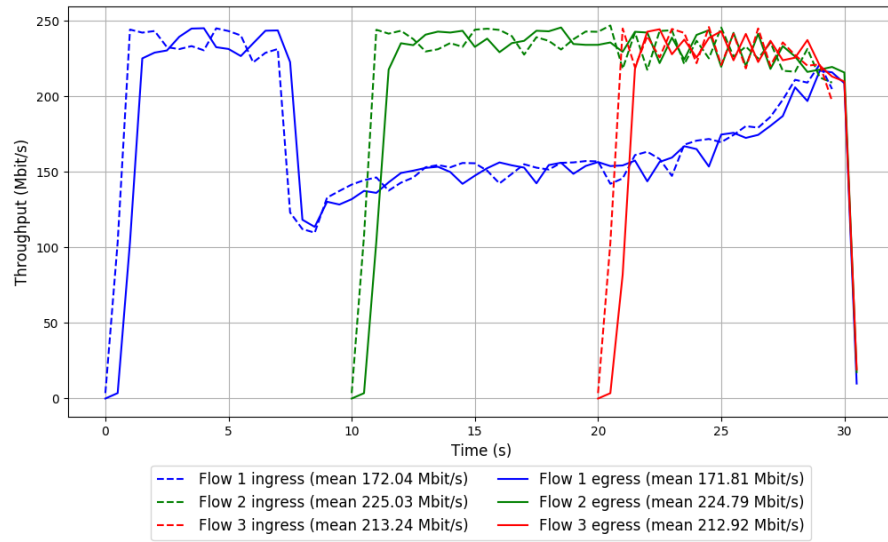
-- Flow 3:

Average throughput: 212.92 Mbit/s

95th percentile per-packet one-way delay: 65.727 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-06-20 11:29:34

End at: 2018-06-20 11:30:04

Local clock offset: -0.05 ms

Remote clock offset: 0.074 ms

Below is generated by plot.py at 2018-06-20 14:44:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 274.38 Mbit/s

95th percentile per-packet one-way delay: 59.744 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 198.10 Mbit/s

95th percentile per-packet one-way delay: 60.193 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 112.15 Mbit/s

95th percentile per-packet one-way delay: 54.723 ms

Loss rate: 0.00%

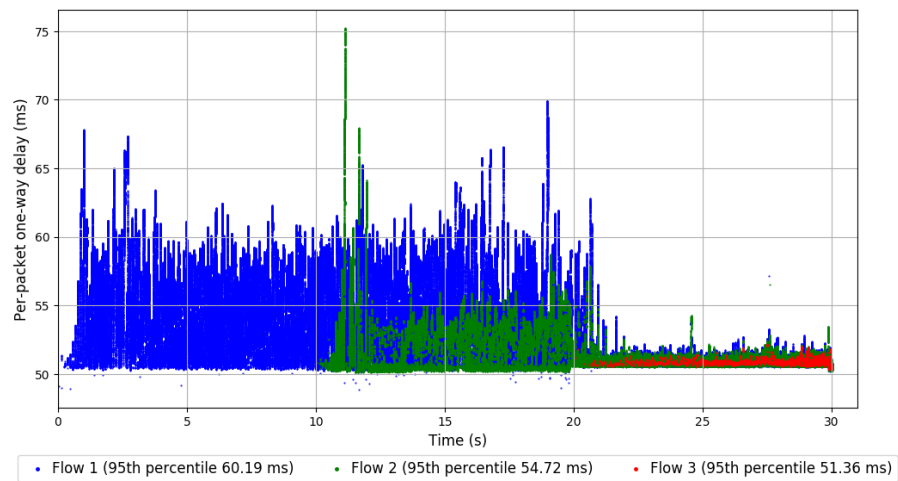
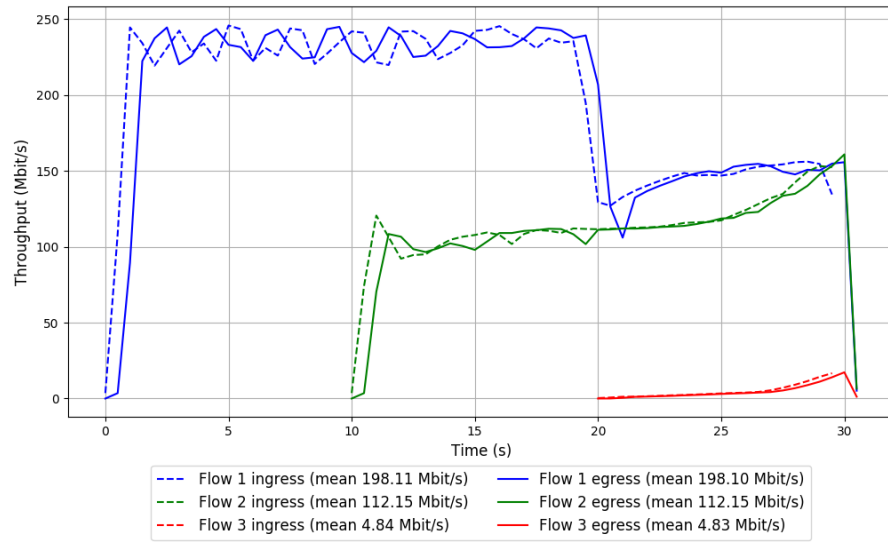
-- Flow 3:

Average throughput: 4.83 Mbit/s

95th percentile per-packet one-way delay: 51.360 ms

Loss rate: 0.25%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-06-20 11:52:34

End at: 2018-06-20 11:53:04

Local clock offset: -0.028 ms

Remote clock offset: 0.084 ms

Below is generated by plot.py at 2018-06-20 14:44:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 256.45 Mbit/s

95th percentile per-packet one-way delay: 56.654 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 162.83 Mbit/s

95th percentile per-packet one-way delay: 57.140 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 51.85 Mbit/s

95th percentile per-packet one-way delay: 55.883 ms

Loss rate: 0.02%

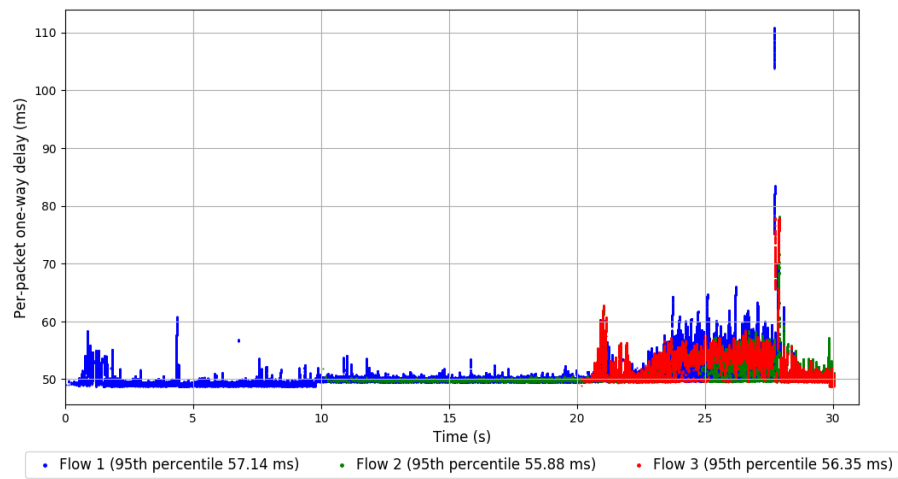
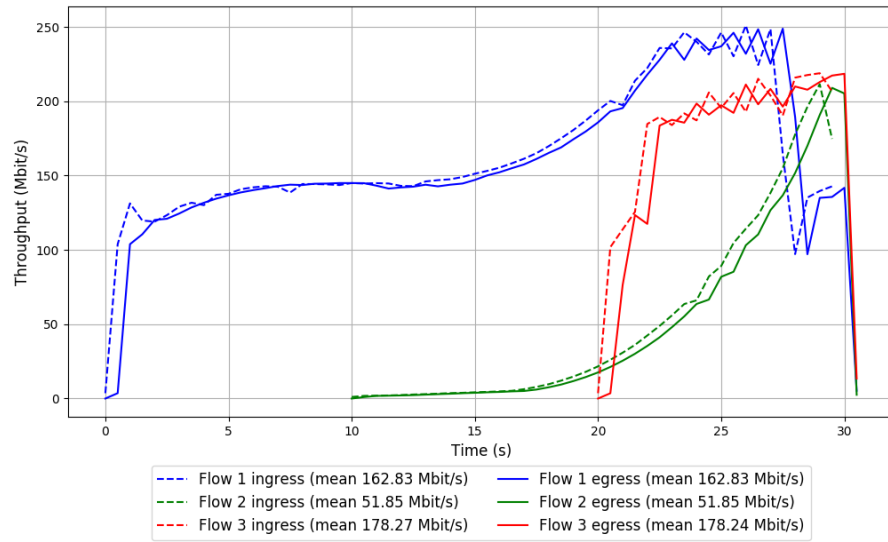
-- Flow 3:

Average throughput: 178.24 Mbit/s

95th percentile per-packet one-way delay: 56.355 ms

Loss rate: 0.00%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-06-20 12:15:43

End at: 2018-06-20 12:16:13

Local clock offset: -0.024 ms

Remote clock offset: 0.02 ms

Below is generated by plot.py at 2018-06-20 14:47:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 378.94 Mbit/s

95th percentile per-packet one-way delay: 61.947 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 228.71 Mbit/s

95th percentile per-packet one-way delay: 60.974 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 223.52 Mbit/s

95th percentile per-packet one-way delay: 63.170 ms

Loss rate: 0.08%

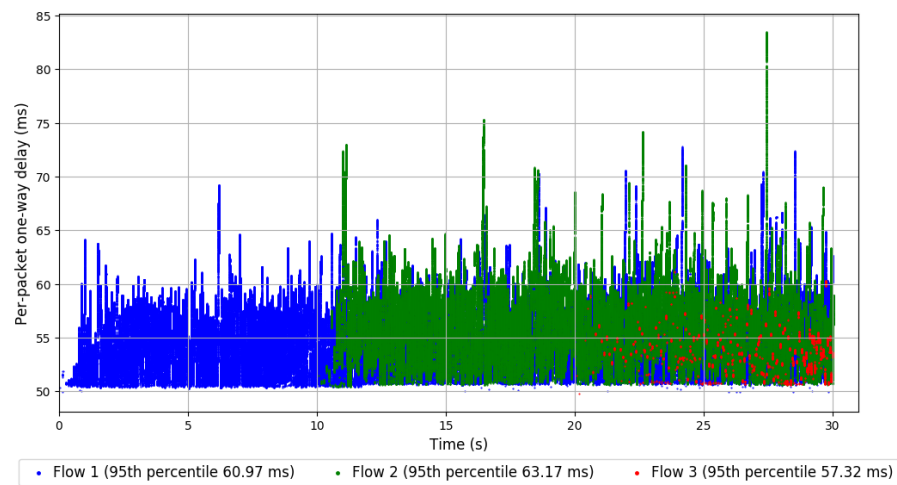
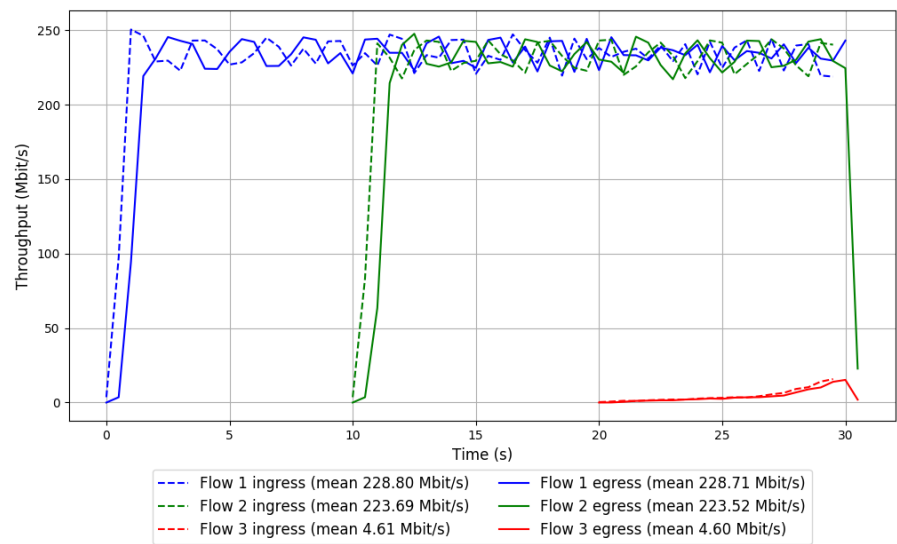
-- Flow 3:

Average throughput: 4.60 Mbit/s

95th percentile per-packet one-way delay: 57.324 ms

Loss rate: 0.26%

Run 6: Report of TCP Cubic — Data Link

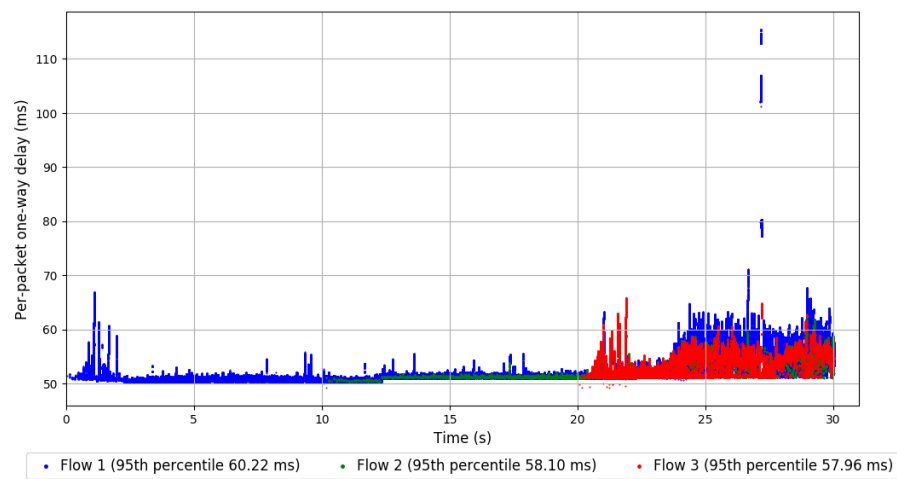
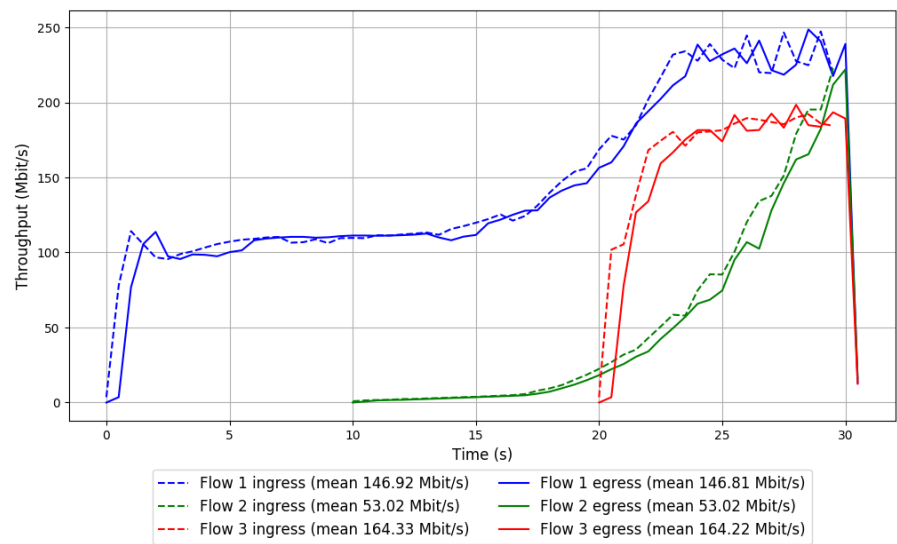


Run 7: Statistics of TCP Cubic

Start at: 2018-06-20 12:38:52
End at: 2018-06-20 12:39:22
Local clock offset: -0.274 ms
Remote clock offset: -0.063 ms

Below is generated by plot.py at 2018-06-20 14:47:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 236.68 Mbit/s
95th percentile per-packet one-way delay: 59.446 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 146.81 Mbit/s
95th percentile per-packet one-way delay: 60.224 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 53.02 Mbit/s
95th percentile per-packet one-way delay: 58.099 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 164.22 Mbit/s
95th percentile per-packet one-way delay: 57.964 ms
Loss rate: 0.04%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-06-20 13:01:44

End at: 2018-06-20 13:02:14

Local clock offset: 0.107 ms

Remote clock offset: 0.01 ms

Below is generated by plot.py at 2018-06-20 14:47:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 230.21 Mbit/s

95th percentile per-packet one-way delay: 55.872 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 157.96 Mbit/s

95th percentile per-packet one-way delay: 55.858 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 53.31 Mbit/s

95th percentile per-packet one-way delay: 56.052 ms

Loss rate: 0.01%

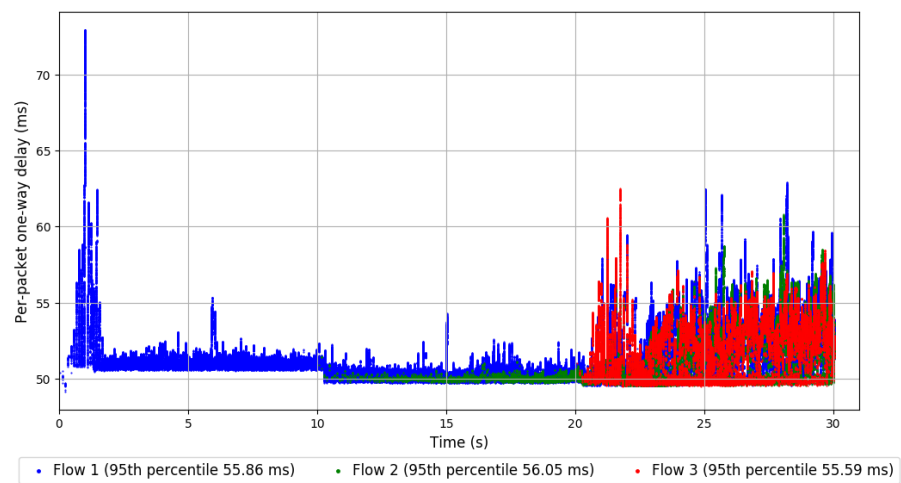
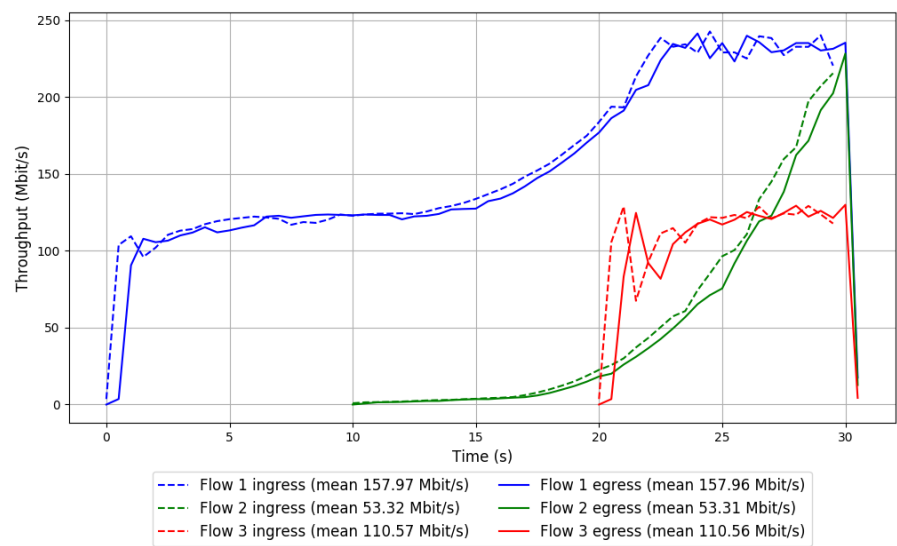
-- Flow 3:

Average throughput: 110.56 Mbit/s

95th percentile per-packet one-way delay: 55.587 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link

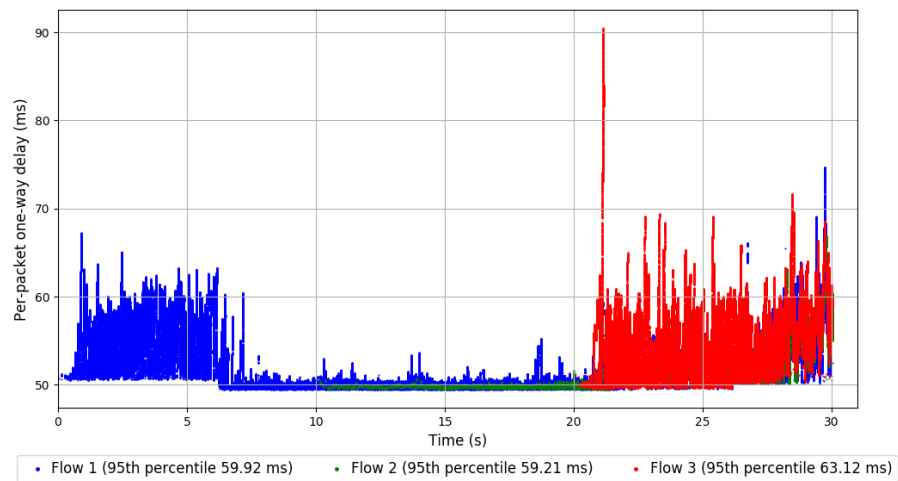
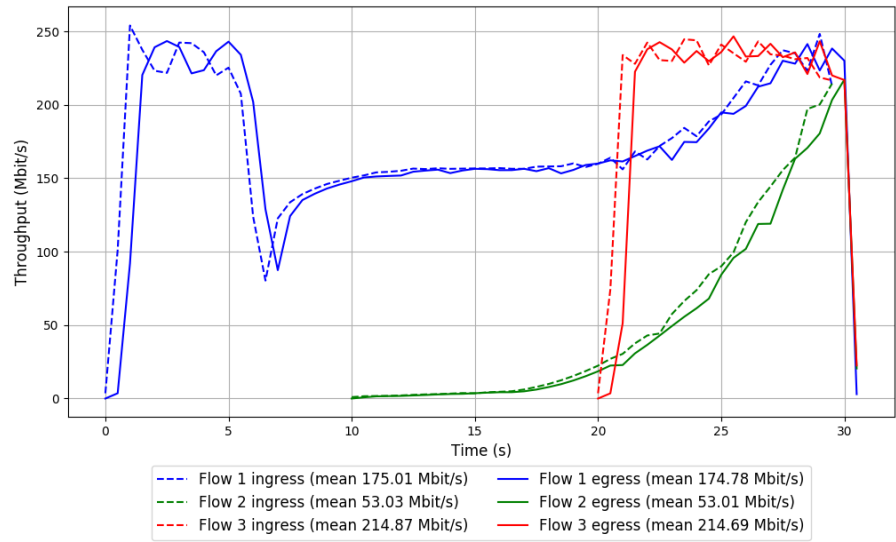


Run 9: Statistics of TCP Cubic

Start at: 2018-06-20 13:24:38
End at: 2018-06-20 13:25:08
Local clock offset: 0.103 ms
Remote clock offset: -0.037 ms

Below is generated by plot.py at 2018-06-20 14:47:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 281.32 Mbit/s
95th percentile per-packet one-way delay: 60.677 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 174.78 Mbit/s
95th percentile per-packet one-way delay: 59.924 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 53.01 Mbit/s
95th percentile per-packet one-way delay: 59.211 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 214.69 Mbit/s
95th percentile per-packet one-way delay: 63.119 ms
Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link

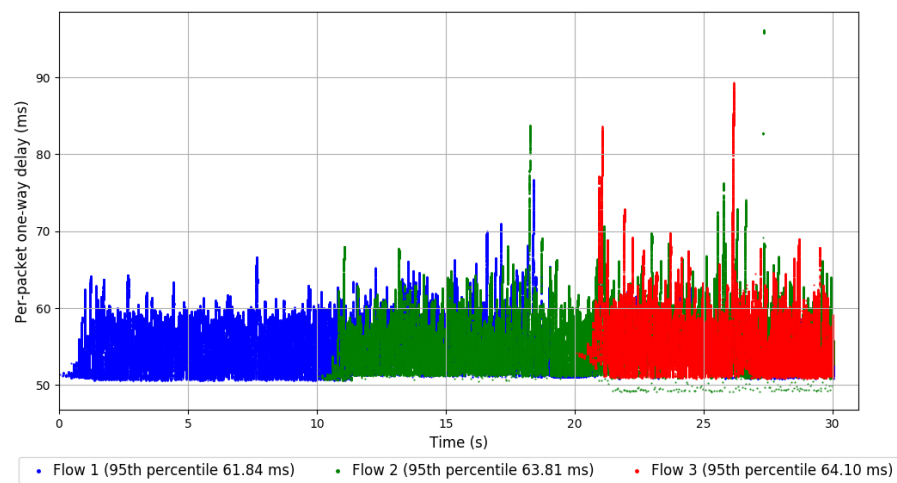
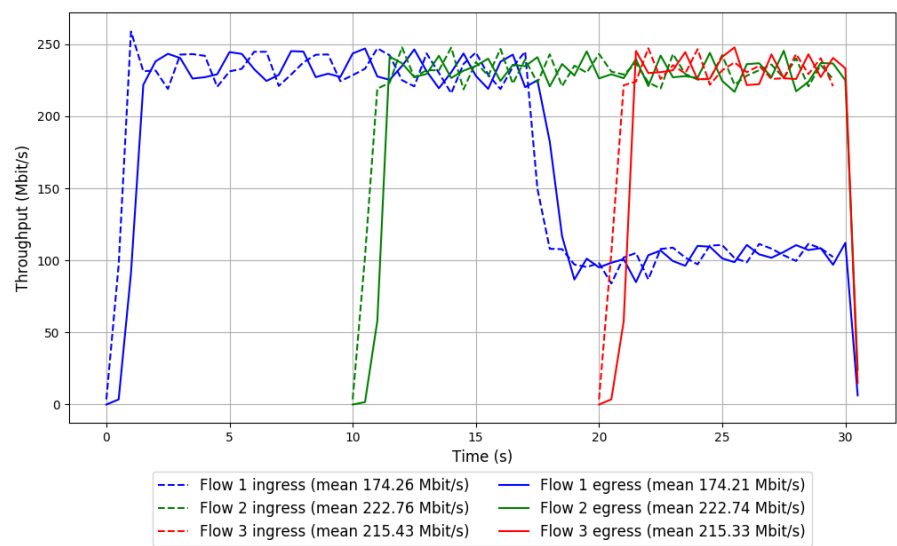


Run 10: Statistics of TCP Cubic

Start at: 2018-06-20 13:47:43
End at: 2018-06-20 13:48:13
Local clock offset: -0.331 ms
Remote clock offset: -0.033 ms

Below is generated by plot.py at 2018-06-20 14:49:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 393.96 Mbit/s
95th percentile per-packet one-way delay: 62.971 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 174.21 Mbit/s
95th percentile per-packet one-way delay: 61.835 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 222.74 Mbit/s
95th percentile per-packet one-way delay: 63.811 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 215.33 Mbit/s
95th percentile per-packet one-way delay: 64.097 ms
Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-06-20 10:31:22

End at: 2018-06-20 10:31:52

Local clock offset: -0.045 ms

Remote clock offset: 0.051 ms

Below is generated by plot.py at 2018-06-20 15:09:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 1242.20 Mbit/s

95th percentile per-packet one-way delay: 170.777 ms

Loss rate: 3.44%

-- Flow 1:

Average throughput: 678.56 Mbit/s

95th percentile per-packet one-way delay: 145.660 ms

Loss rate: 3.76%

-- Flow 2:

Average throughput: 591.91 Mbit/s

95th percentile per-packet one-way delay: 191.800 ms

Loss rate: 3.76%

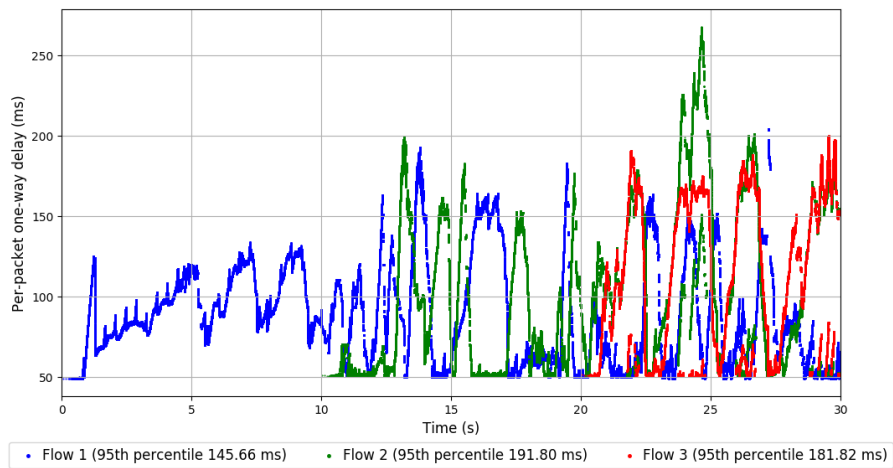
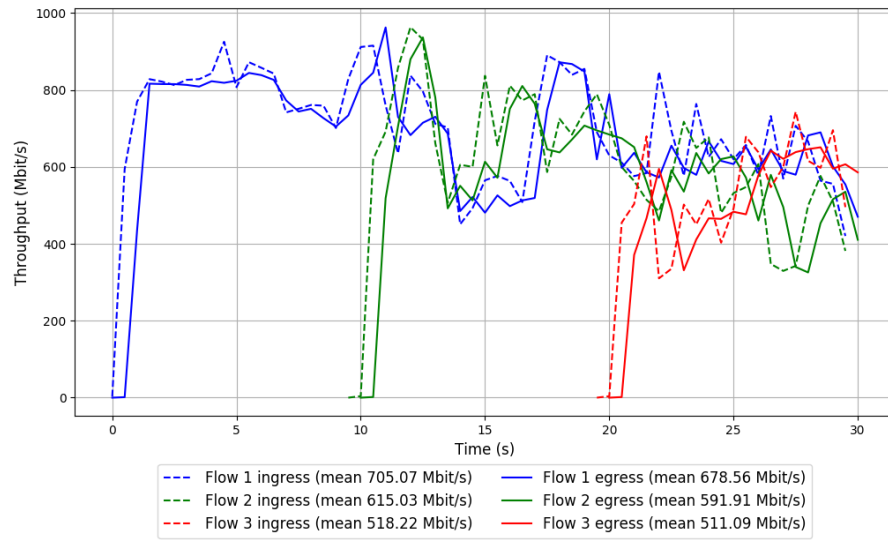
-- Flow 3:

Average throughput: 511.09 Mbit/s

95th percentile per-packet one-way delay: 181.825 ms

Loss rate: 1.37%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-06-20 10:54:33

End at: 2018-06-20 10:55:03

Local clock offset: -0.019 ms

Remote clock offset: 0.144 ms

Below is generated by plot.py at 2018-06-20 15:09:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 1244.69 Mbit/s

95th percentile per-packet one-way delay: 142.456 ms

Loss rate: 2.54%

-- Flow 1:

Average throughput: 653.78 Mbit/s

95th percentile per-packet one-way delay: 129.140 ms

Loss rate: 3.52%

-- Flow 2:

Average throughput: 617.12 Mbit/s

95th percentile per-packet one-way delay: 174.717 ms

Loss rate: 0.86%

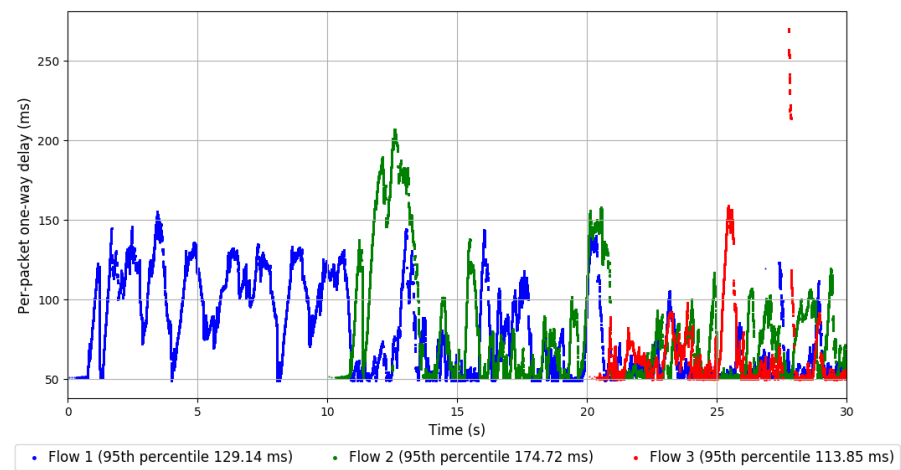
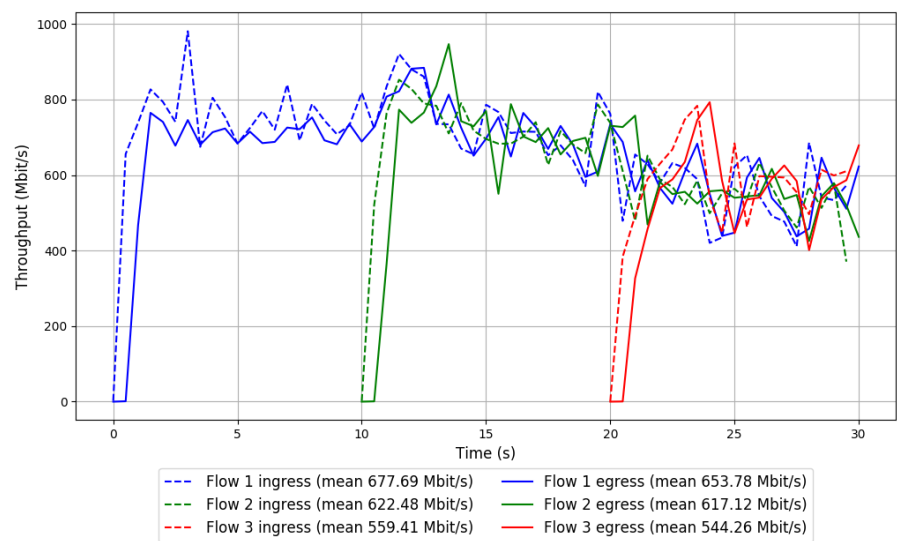
-- Flow 3:

Average throughput: 544.26 Mbit/s

95th percentile per-packet one-way delay: 113.846 ms

Loss rate: 2.70%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-06-20 11:17:54

End at: 2018-06-20 11:18:24

Local clock offset: -0.048 ms

Remote clock offset: 0.078 ms

Below is generated by plot.py at 2018-06-20 15:11:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 1299.76 Mbit/s

95th percentile per-packet one-way delay: 124.373 ms

Loss rate: 2.41%

-- Flow 1:

Average throughput: 714.19 Mbit/s

95th percentile per-packet one-way delay: 118.711 ms

Loss rate: 1.94%

-- Flow 2:

Average throughput: 640.41 Mbit/s

95th percentile per-packet one-way delay: 135.691 ms

Loss rate: 3.77%

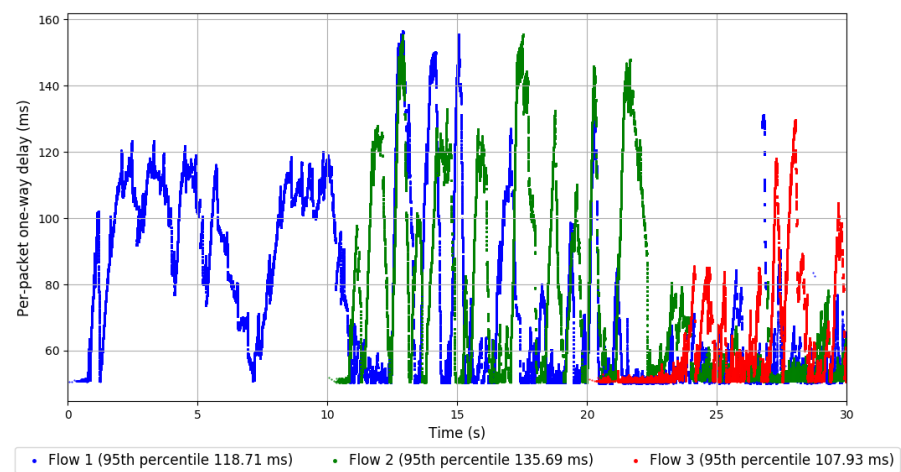
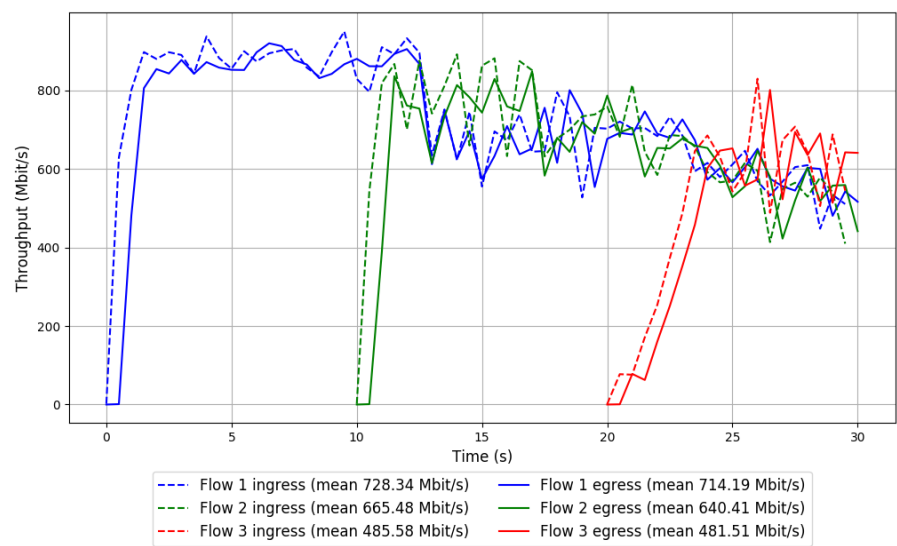
-- Flow 3:

Average throughput: 481.51 Mbit/s

95th percentile per-packet one-way delay: 107.932 ms

Loss rate: 0.83%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-06-20 11:41:16

End at: 2018-06-20 11:41:46

Local clock offset: -0.064 ms

Remote clock offset: 0.062 ms

Below is generated by plot.py at 2018-06-20 15:11:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 1006.24 Mbit/s

95th percentile per-packet one-way delay: 214.263 ms

Loss rate: 1.68%

-- Flow 1:

Average throughput: 609.70 Mbit/s

95th percentile per-packet one-way delay: 221.706 ms

Loss rate: 2.24%

-- Flow 2:

Average throughput: 437.74 Mbit/s

95th percentile per-packet one-way delay: 211.938 ms

Loss rate: 0.59%

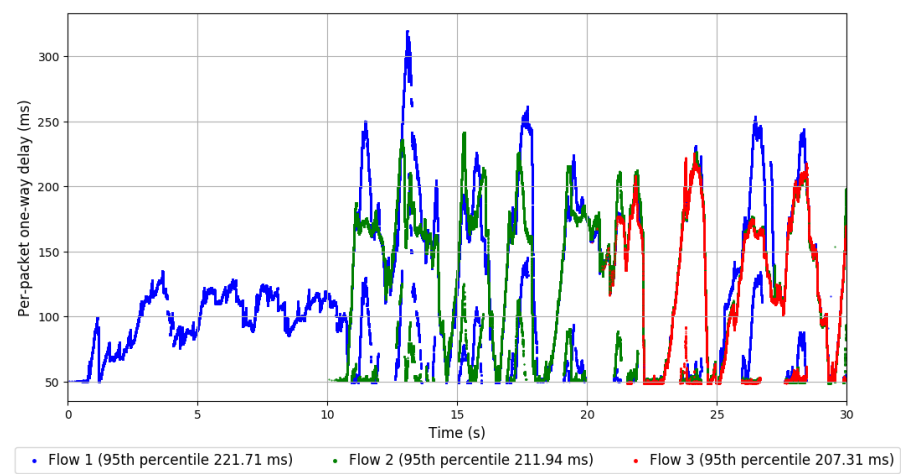
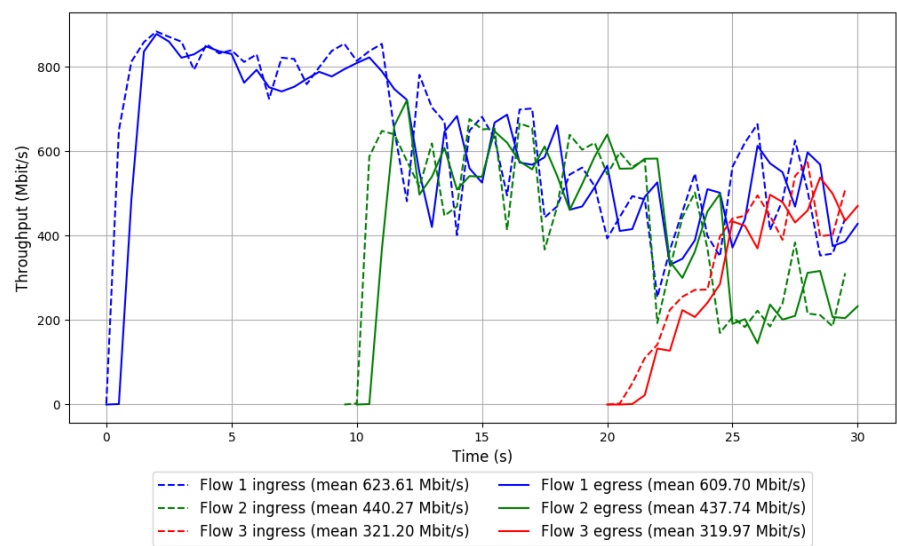
-- Flow 3:

Average throughput: 319.97 Mbit/s

95th percentile per-packet one-way delay: 207.313 ms

Loss rate: 1.46%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-06-20 12:04:09

End at: 2018-06-20 12:04:39

Local clock offset: -0.054 ms

Remote clock offset: 0.031 ms

Below is generated by plot.py at 2018-06-20 15:11:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 1257.48 Mbit/s

95th percentile per-packet one-way delay: 172.591 ms

Loss rate: 2.91%

-- Flow 1:

Average throughput: 701.00 Mbit/s

95th percentile per-packet one-way delay: 191.105 ms

Loss rate: 1.73%

-- Flow 2:

Average throughput: 589.53 Mbit/s

95th percentile per-packet one-way delay: 162.113 ms

Loss rate: 4.12%

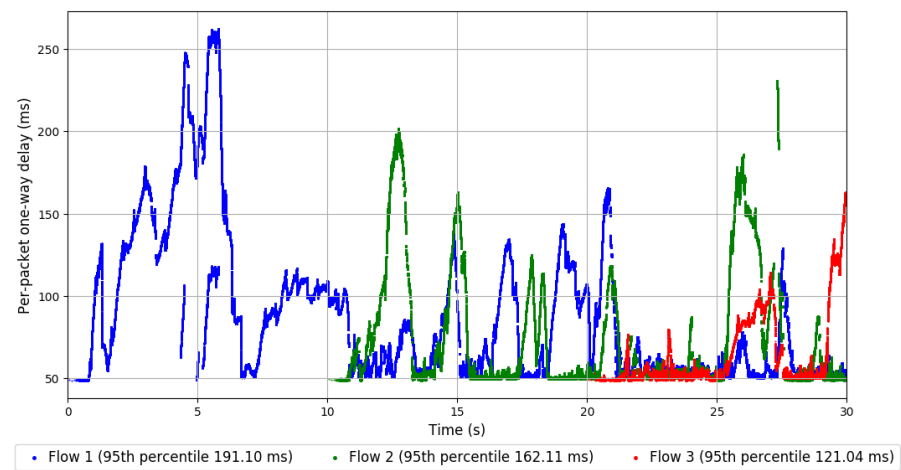
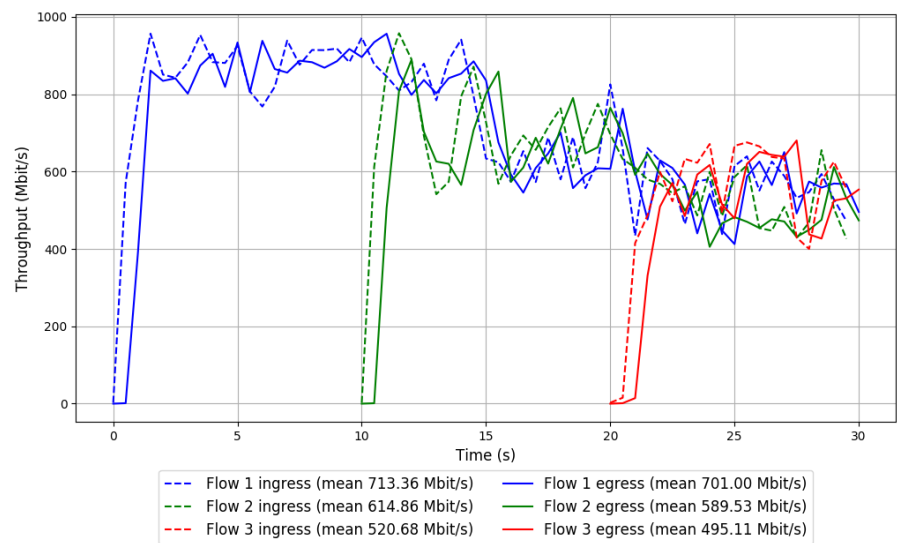
-- Flow 3:

Average throughput: 495.11 Mbit/s

95th percentile per-packet one-way delay: 121.039 ms

Loss rate: 4.90%

Run 5: Report of FillP — Data Link

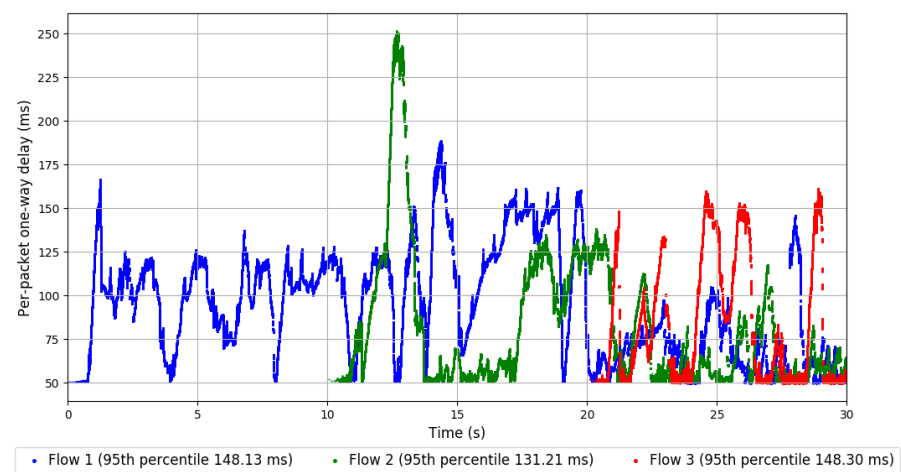
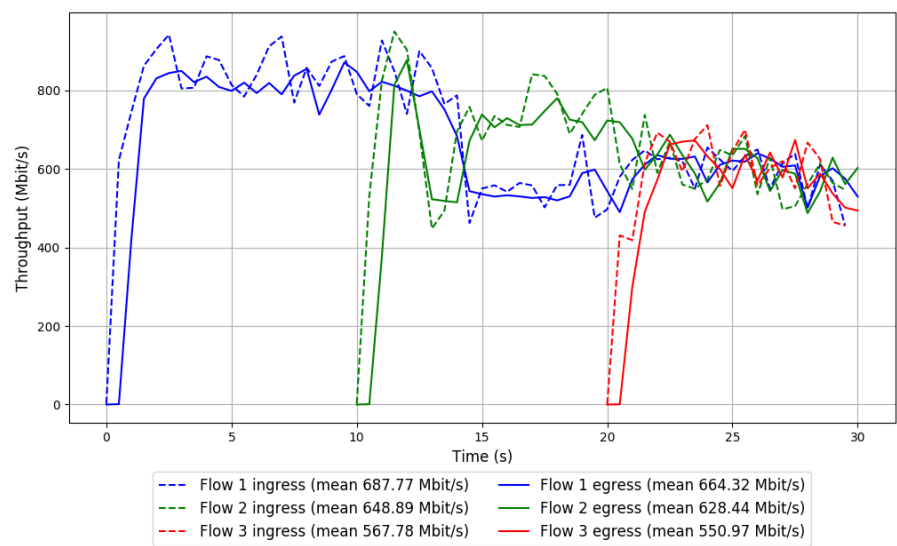


Run 6: Statistics of FillP

Start at: 2018-06-20 12:27:11
End at: 2018-06-20 12:27:41
Local clock offset: 0.061 ms
Remote clock offset: -0.055 ms

Below is generated by plot.py at 2018-06-20 15:12:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 1265.01 Mbit/s
95th percentile per-packet one-way delay: 147.106 ms
Loss rate: 3.25%
-- Flow 1:
Average throughput: 664.32 Mbit/s
95th percentile per-packet one-way delay: 148.133 ms
Loss rate: 3.41%
-- Flow 2:
Average throughput: 628.44 Mbit/s
95th percentile per-packet one-way delay: 131.207 ms
Loss rate: 3.14%
-- Flow 3:
Average throughput: 550.97 Mbit/s
95th percentile per-packet one-way delay: 148.298 ms
Loss rate: 2.96%

Run 6: Report of FillP — Data Link

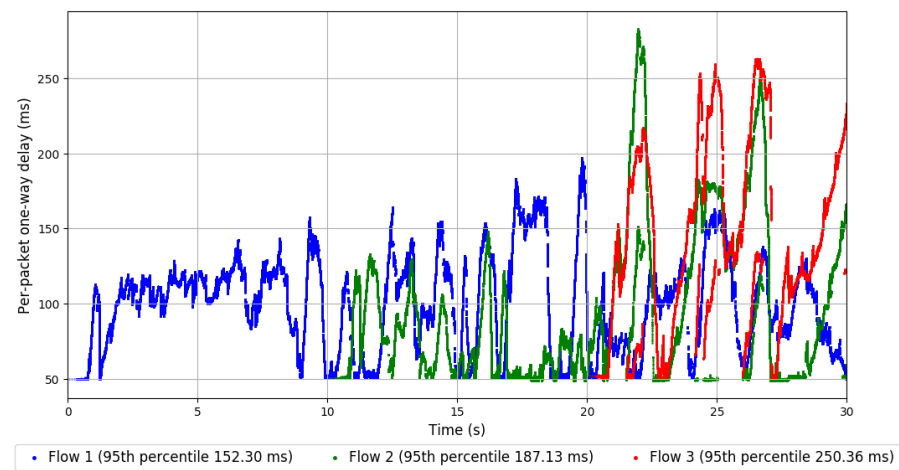
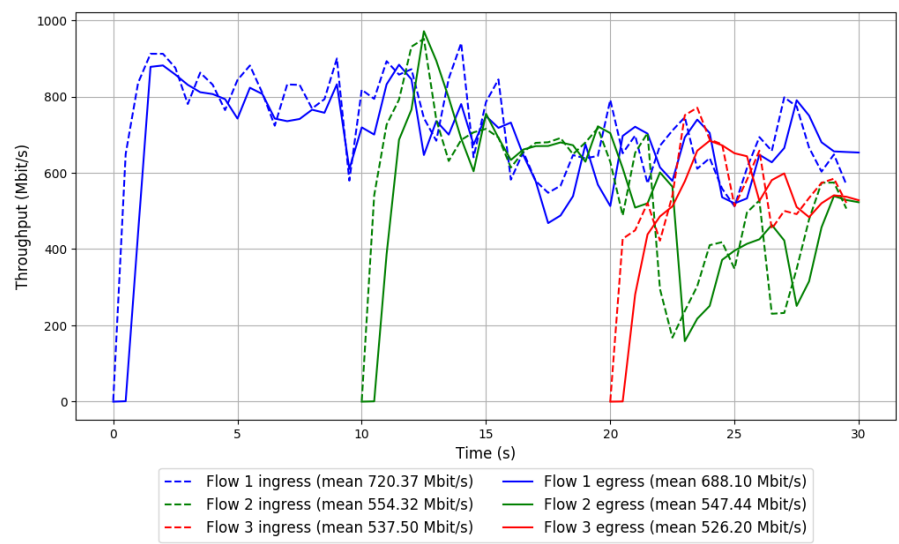


Run 7: Statistics of FillP

Start at: 2018-06-20 12:50:16
End at: 2018-06-20 12:50:46
Local clock offset: 0.087 ms
Remote clock offset: -0.057 ms

Below is generated by plot.py at 2018-06-20 15:12:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 1226.60 Mbit/s
95th percentile per-packet one-way delay: 196.809 ms
Loss rate: 3.21%
-- Flow 1:
Average throughput: 688.10 Mbit/s
95th percentile per-packet one-way delay: 152.303 ms
Loss rate: 4.48%
-- Flow 2:
Average throughput: 547.44 Mbit/s
95th percentile per-packet one-way delay: 187.127 ms
Loss rate: 1.25%
-- Flow 3:
Average throughput: 526.20 Mbit/s
95th percentile per-packet one-way delay: 250.364 ms
Loss rate: 2.12%

Run 7: Report of FillP — Data Link

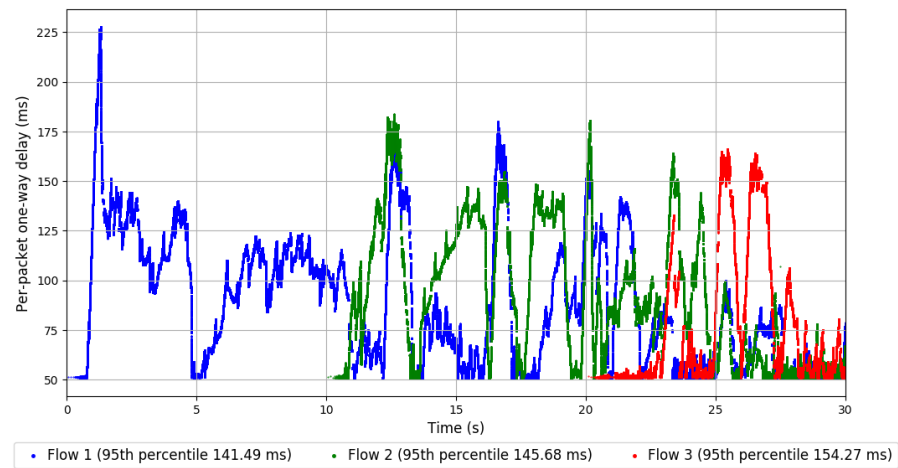
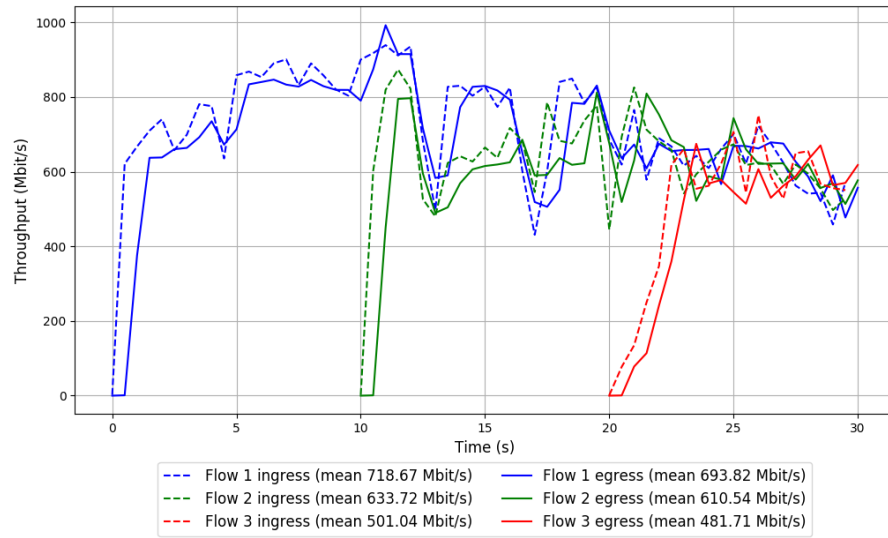


Run 8: Statistics of FillP

Start at: 2018-06-20 13:13:05
End at: 2018-06-20 13:13:35
Local clock offset: -0.273 ms
Remote clock offset: -0.039 ms

Below is generated by plot.py at 2018-06-20 15:16:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 1259.54 Mbit/s
95th percentile per-packet one-way delay: 146.043 ms
Loss rate: 3.57%
-- Flow 1:
Average throughput: 693.82 Mbit/s
95th percentile per-packet one-way delay: 141.489 ms
Loss rate: 3.46%
-- Flow 2:
Average throughput: 610.54 Mbit/s
95th percentile per-packet one-way delay: 145.678 ms
Loss rate: 3.66%
-- Flow 3:
Average throughput: 481.71 Mbit/s
95th percentile per-packet one-way delay: 154.274 ms
Loss rate: 3.87%

Run 8: Report of FillP — Data Link

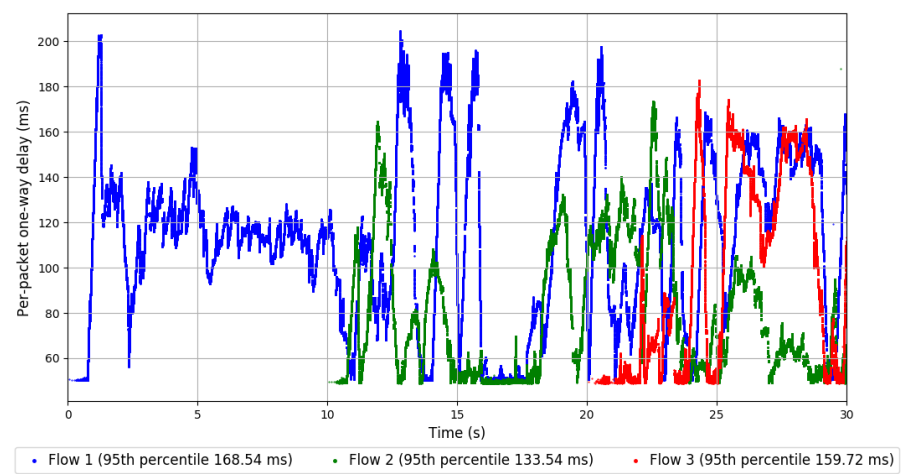
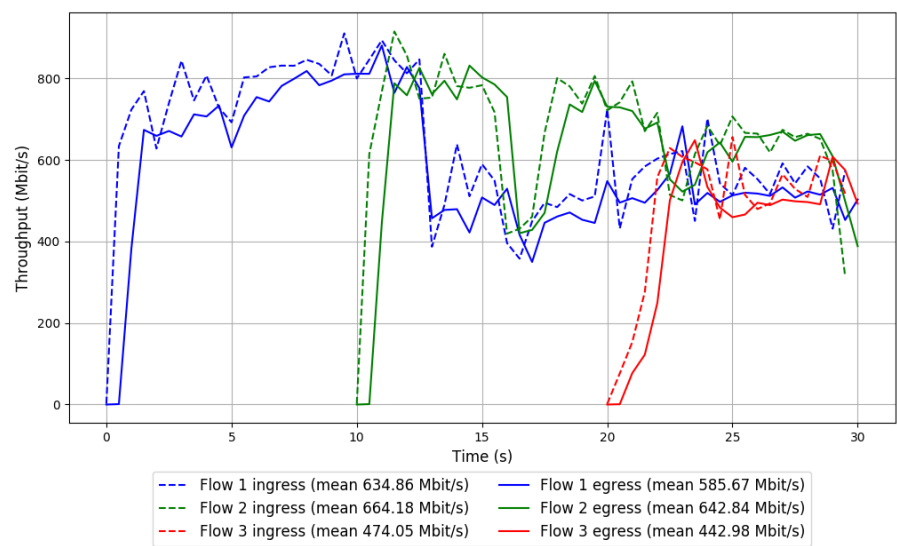


Run 9: Statistics of FillP

Start at: 2018-06-20 13:36:10
End at: 2018-06-20 13:36:40
Local clock offset: 0.046 ms
Remote clock offset: -0.052 ms

Below is generated by plot.py at 2018-06-20 15:33:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 1160.38 Mbit/s
95th percentile per-packet one-way delay: 160.270 ms
Loss rate: 5.96%
-- Flow 1:
Average throughput: 585.67 Mbit/s
95th percentile per-packet one-way delay: 168.536 ms
Loss rate: 7.75%
-- Flow 2:
Average throughput: 642.84 Mbit/s
95th percentile per-packet one-way delay: 133.541 ms
Loss rate: 3.20%
-- Flow 3:
Average throughput: 442.98 Mbit/s
95th percentile per-packet one-way delay: 159.718 ms
Loss rate: 6.52%

Run 9: Report of FillP — Data Link

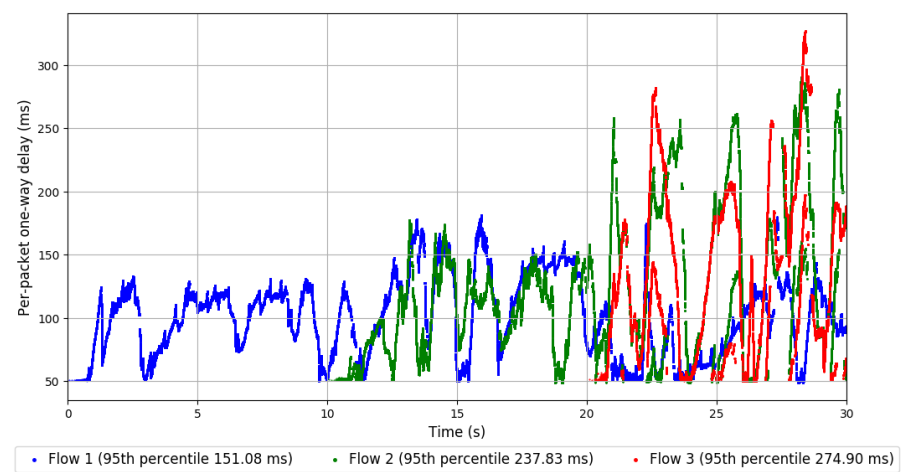
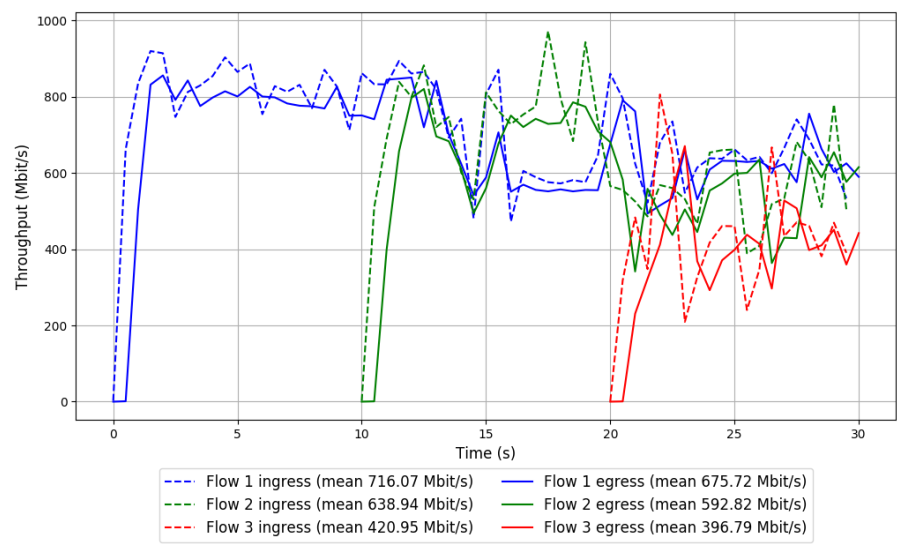


Run 10: Statistics of FillP

Start at: 2018-06-20 13:59:08
End at: 2018-06-20 13:59:38
Local clock offset: 0.033 ms
Remote clock offset: -0.007 ms

Below is generated by plot.py at 2018-06-20 15:36:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 1201.74 Mbit/s
95th percentile per-packet one-way delay: 205.553 ms
Loss rate: 6.17%
-- Flow 1:
Average throughput: 675.72 Mbit/s
95th percentile per-packet one-way delay: 151.081 ms
Loss rate: 5.63%
-- Flow 2:
Average throughput: 592.82 Mbit/s
95th percentile per-packet one-way delay: 237.827 ms
Loss rate: 7.22%
-- Flow 3:
Average throughput: 396.79 Mbit/s
95th percentile per-packet one-way delay: 274.905 ms
Loss rate: 5.73%

Run 10: Report of FillP — Data Link

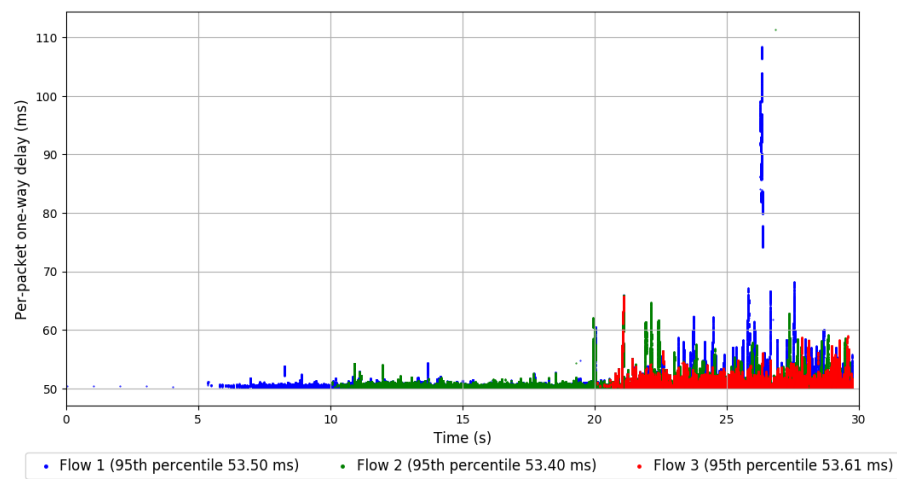
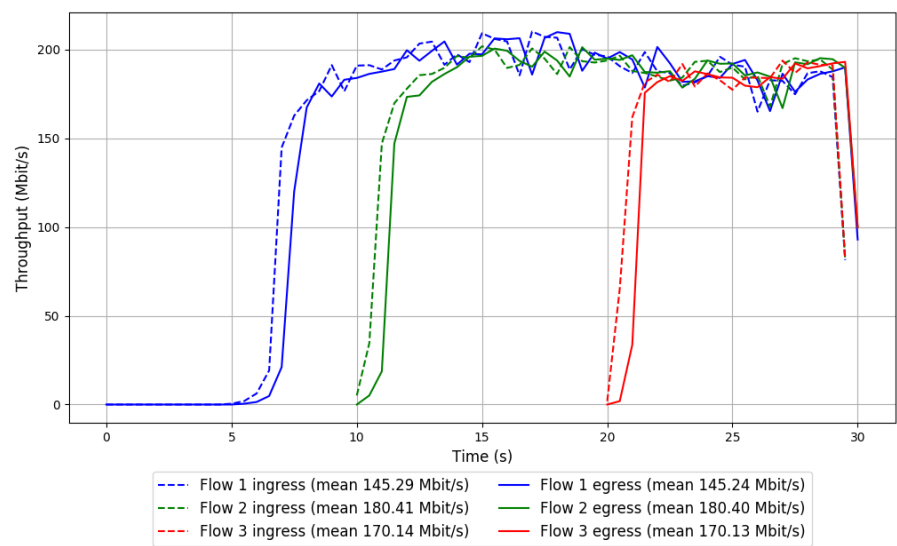


```
Run 1: Statistics of Indigo

Start at: 2018-06-20 10:28:24
End at: 2018-06-20 10:28:54
Local clock offset: -0.056 ms
Remote clock offset: 0.028 ms

# Below is generated by plot.py at 2018-06-20 15:36:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 320.09 Mbit/s
95th percentile per-packet one-way delay: 53.478 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 145.24 Mbit/s
95th percentile per-packet one-way delay: 53.499 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 180.40 Mbit/s
95th percentile per-packet one-way delay: 53.400 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 170.13 Mbit/s
95th percentile per-packet one-way delay: 53.610 ms
Loss rate: 0.00%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-06-20 10:51:32

End at: 2018-06-20 10:52:02

Local clock offset: 0.02 ms

Remote clock offset: 0.143 ms

Below is generated by plot.py at 2018-06-20 15:36:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 370.92 Mbit/s

95th percentile per-packet one-way delay: 52.802 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 190.37 Mbit/s

95th percentile per-packet one-way delay: 52.611 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 190.69 Mbit/s

95th percentile per-packet one-way delay: 52.833 ms

Loss rate: 0.01%

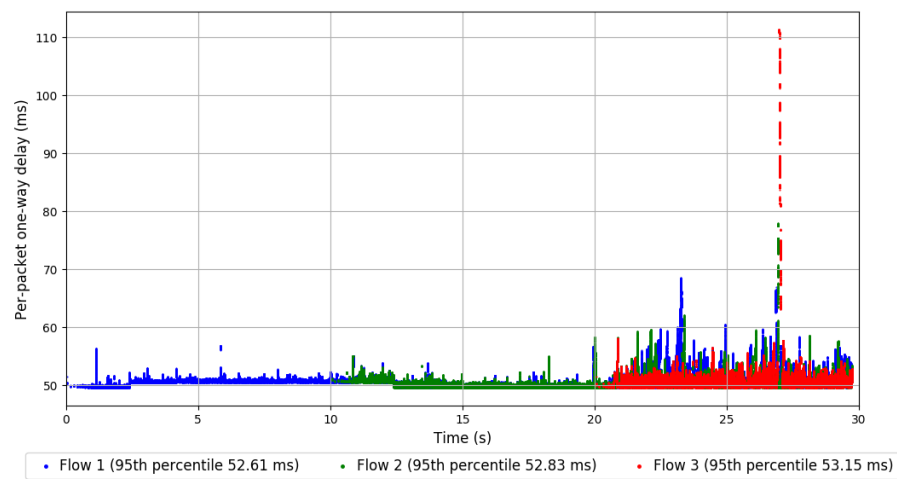
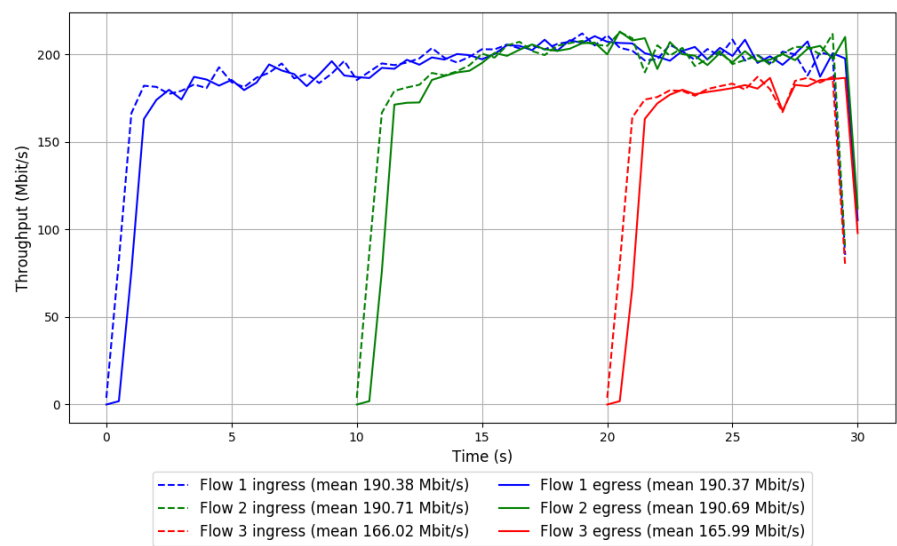
-- Flow 3:

Average throughput: 165.99 Mbit/s

95th percentile per-packet one-way delay: 53.147 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-06-20 11:14:54

End at: 2018-06-20 11:15:24

Local clock offset: -0.031 ms

Remote clock offset: 0.1 ms

Below is generated by plot.py at 2018-06-20 15:36:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 353.04 Mbit/s

95th percentile per-packet one-way delay: 53.524 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 183.44 Mbit/s

95th percentile per-packet one-way delay: 53.375 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 177.90 Mbit/s

95th percentile per-packet one-way delay: 53.567 ms

Loss rate: 0.00%

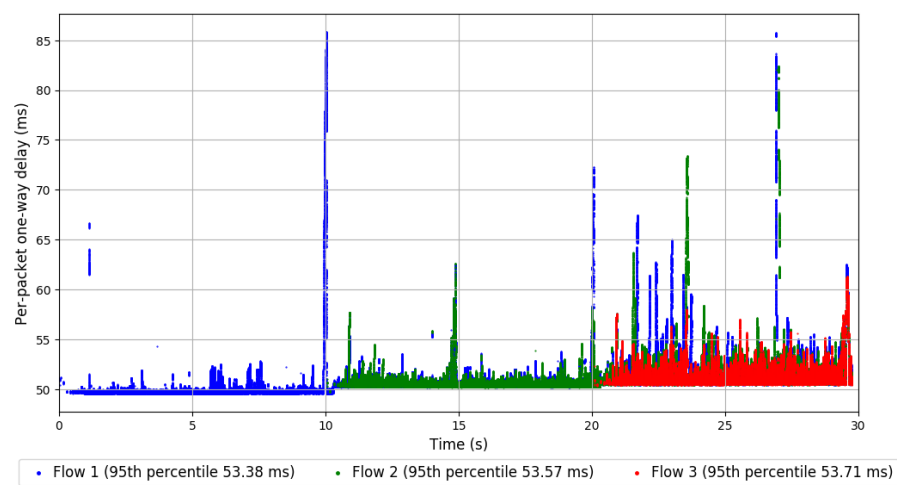
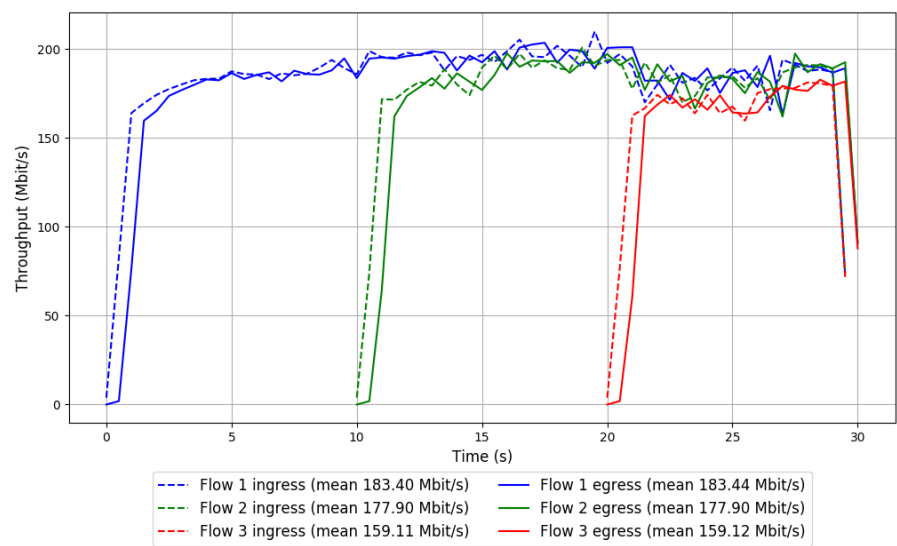
-- Flow 3:

Average throughput: 159.12 Mbit/s

95th percentile per-packet one-way delay: 53.707 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-06-20 11:38:14

End at: 2018-06-20 11:38:44

Local clock offset: 0.332 ms

Remote clock offset: 0.067 ms

Below is generated by plot.py at 2018-06-20 15:36:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 402.56 Mbit/s

95th percentile per-packet one-way delay: 55.689 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 216.35 Mbit/s

95th percentile per-packet one-way delay: 54.917 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 194.37 Mbit/s

95th percentile per-packet one-way delay: 56.502 ms

Loss rate: 0.00%

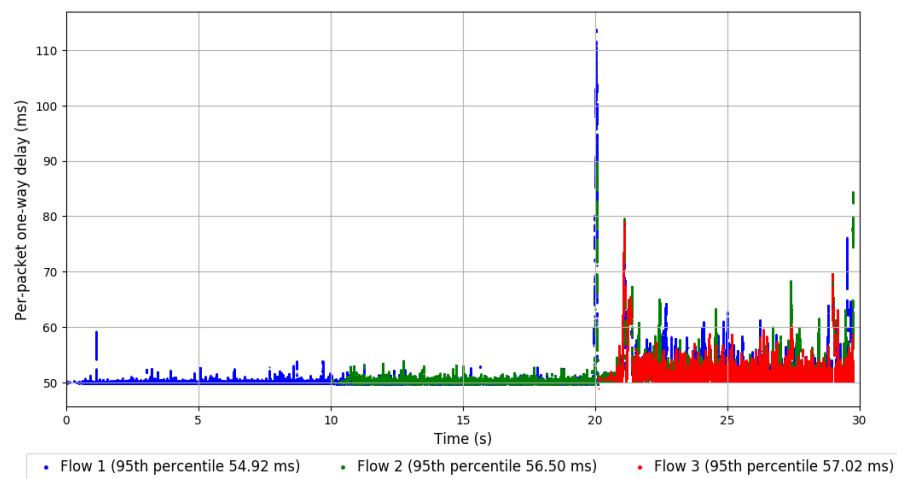
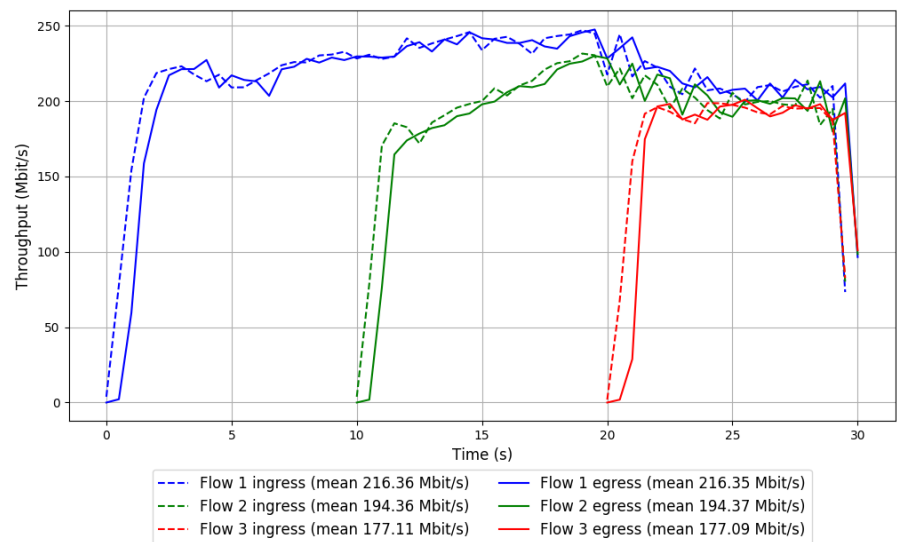
-- Flow 3:

Average throughput: 177.09 Mbit/s

95th percentile per-packet one-way delay: 57.020 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-06-20 12:01:10

End at: 2018-06-20 12:01:40

Local clock offset: -0.018 ms

Remote clock offset: 0.032 ms

Below is generated by plot.py at 2018-06-20 15:36:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 360.09 Mbit/s

95th percentile per-packet one-way delay: 52.728 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 187.64 Mbit/s

95th percentile per-packet one-way delay: 52.594 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 181.50 Mbit/s

95th percentile per-packet one-way delay: 52.872 ms

Loss rate: 0.00%

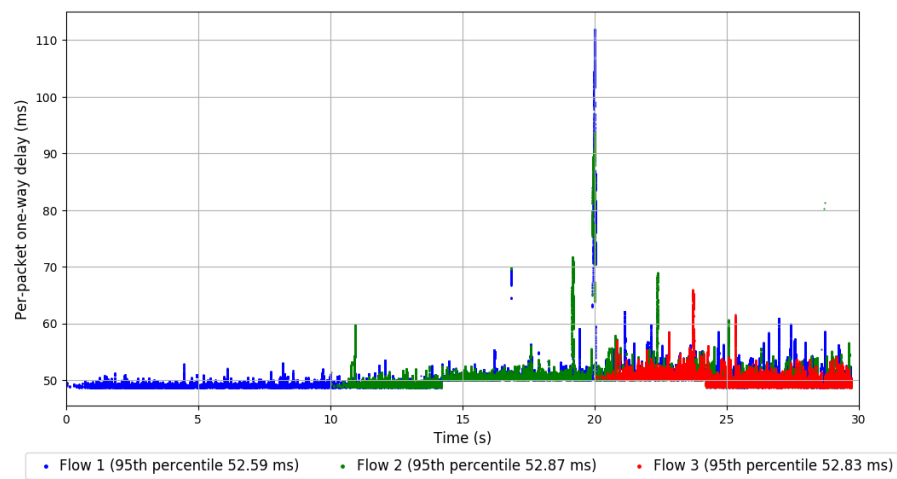
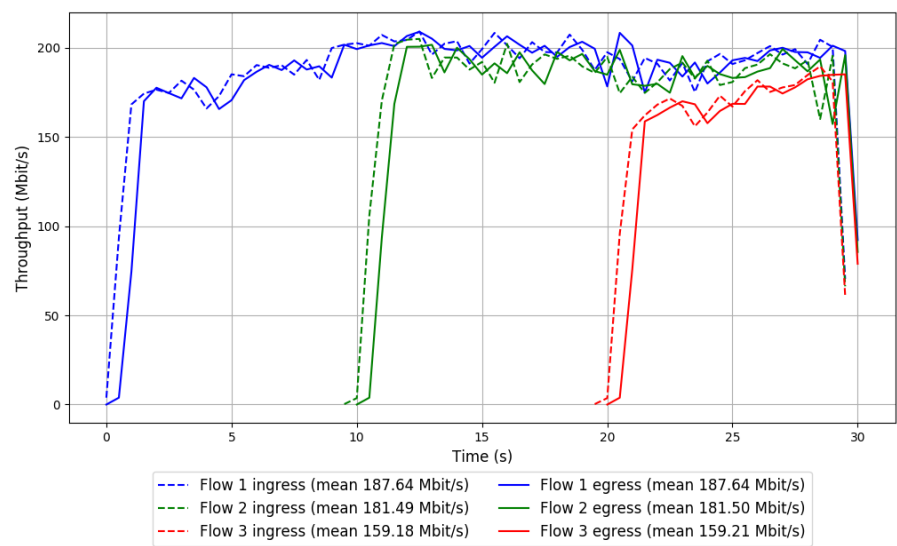
-- Flow 3:

Average throughput: 159.21 Mbit/s

95th percentile per-packet one-way delay: 52.829 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link

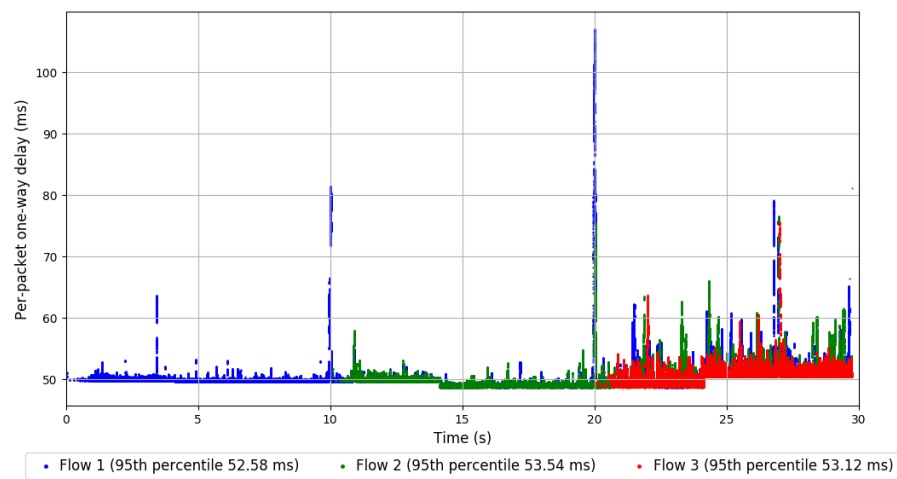
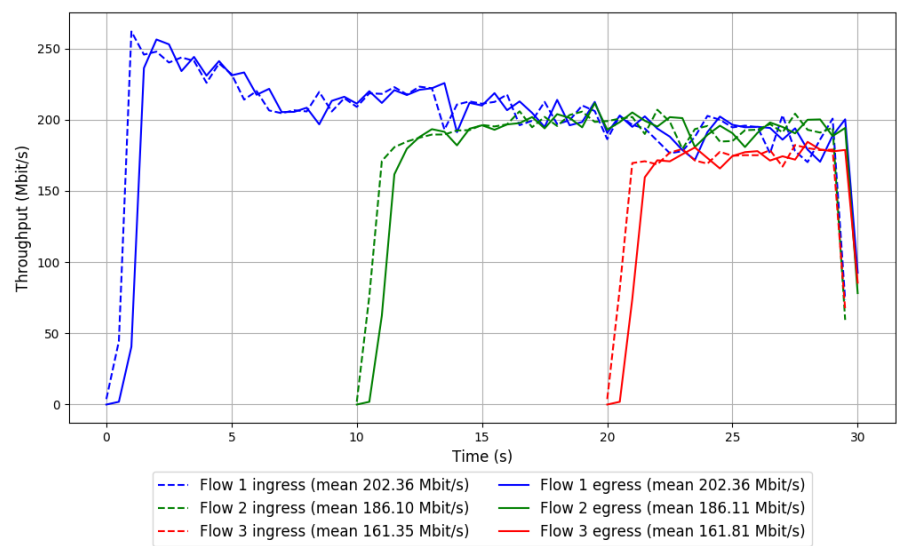


Run 6: Statistics of Indigo

Start at: 2018-06-20 12:24:10
End at: 2018-06-20 12:24:40
Local clock offset: 0.065 ms
Remote clock offset: -0.054 ms

Below is generated by plot.py at 2018-06-20 15:36:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 378.11 Mbit/s
95th percentile per-packet one-way delay: 52.988 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 202.36 Mbit/s
95th percentile per-packet one-way delay: 52.578 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 186.11 Mbit/s
95th percentile per-packet one-way delay: 53.538 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 161.81 Mbit/s
95th percentile per-packet one-way delay: 53.125 ms
Loss rate: 0.00%

Run 6: Report of Indigo — Data Link

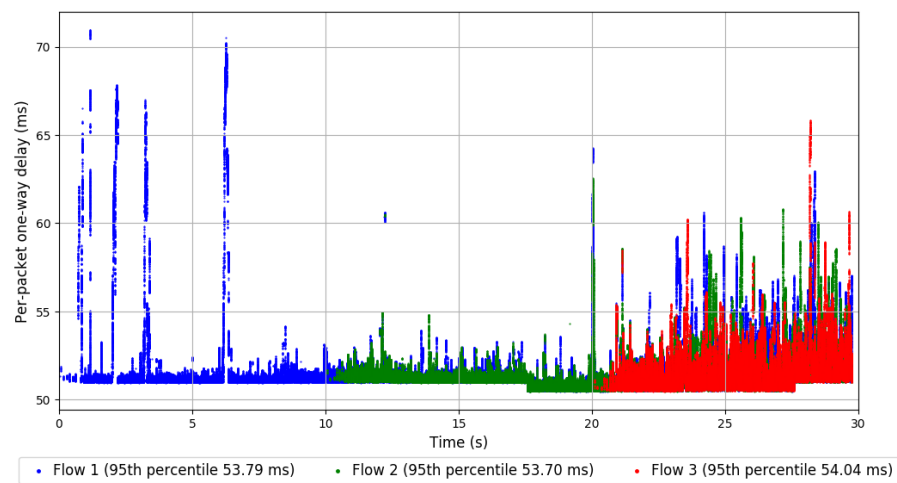
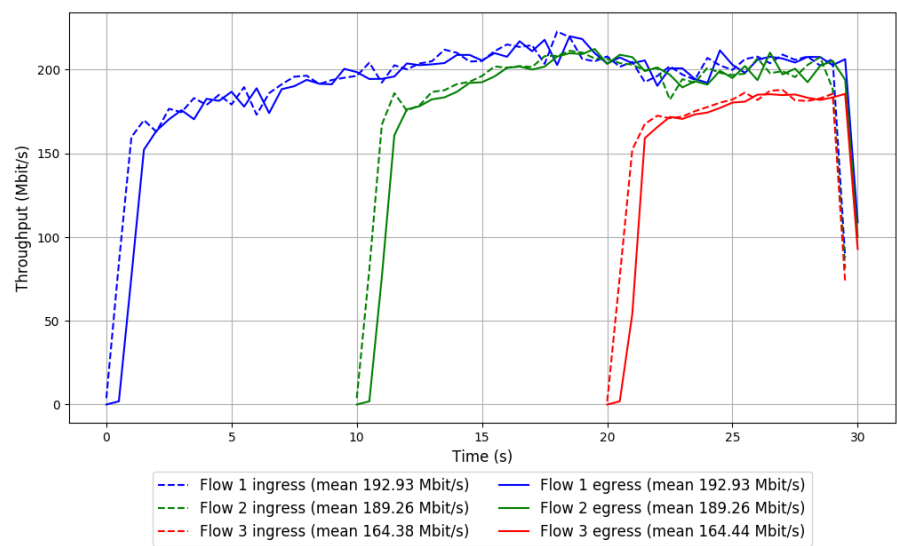


Run 7: Statistics of Indigo

Start at: 2018-06-20 12:47:16
End at: 2018-06-20 12:47:46
Local clock offset: -0.269 ms
Remote clock offset: -0.077 ms

Below is generated by plot.py at 2018-06-20 15:36:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 371.87 Mbit/s
95th percentile per-packet one-way delay: 53.820 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 192.93 Mbit/s
95th percentile per-packet one-way delay: 53.794 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 189.26 Mbit/s
95th percentile per-packet one-way delay: 53.705 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 164.44 Mbit/s
95th percentile per-packet one-way delay: 54.043 ms
Loss rate: 0.00%

Run 7: Report of Indigo — Data Link

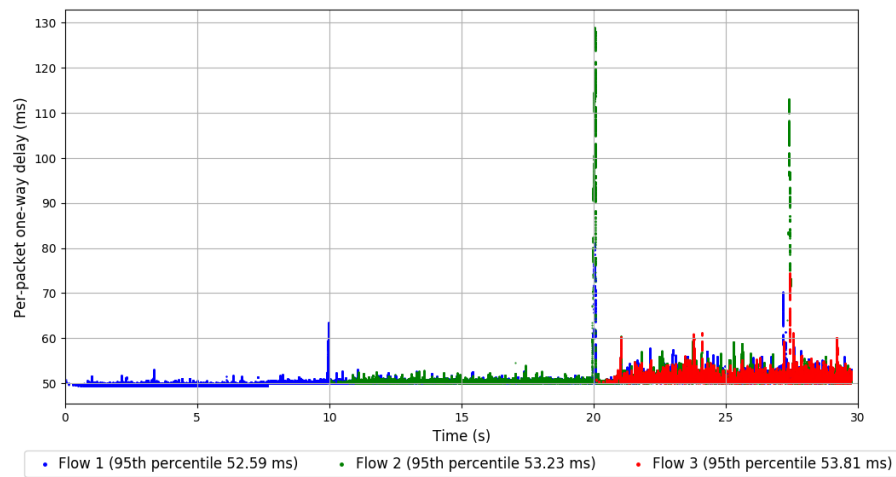
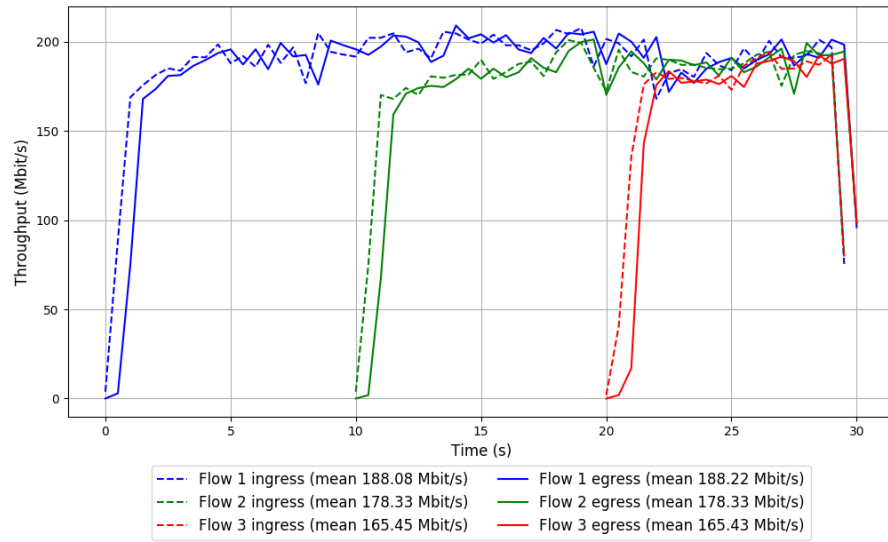


Run 8: Statistics of Indigo

Start at: 2018-06-20 13:10:06
End at: 2018-06-20 13:10:36
Local clock offset: 0.092 ms
Remote clock offset: -0.038 ms

Below is generated by plot.py at 2018-06-20 15:36:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 360.01 Mbit/s
95th percentile per-packet one-way delay: 53.068 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 188.22 Mbit/s
95th percentile per-packet one-way delay: 52.594 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 178.33 Mbit/s
95th percentile per-packet one-way delay: 53.231 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 165.43 Mbit/s
95th percentile per-packet one-way delay: 53.808 ms
Loss rate: 0.00%

Run 8: Report of Indigo — Data Link

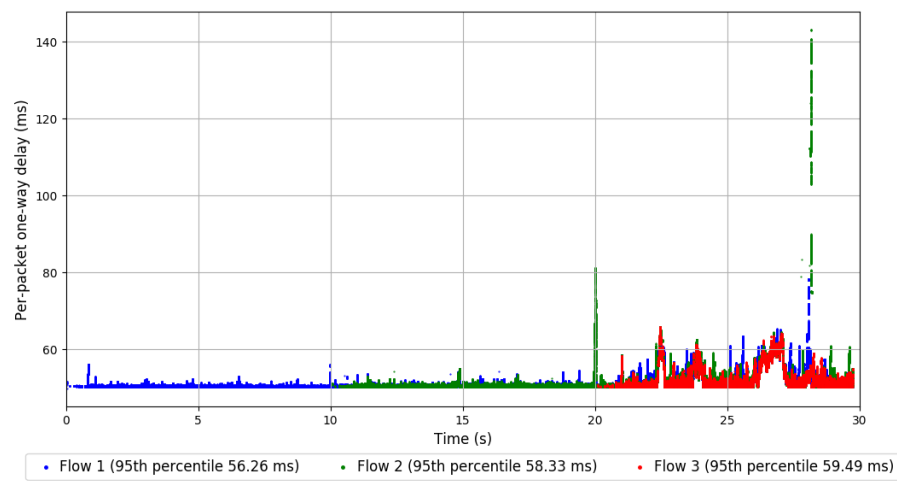
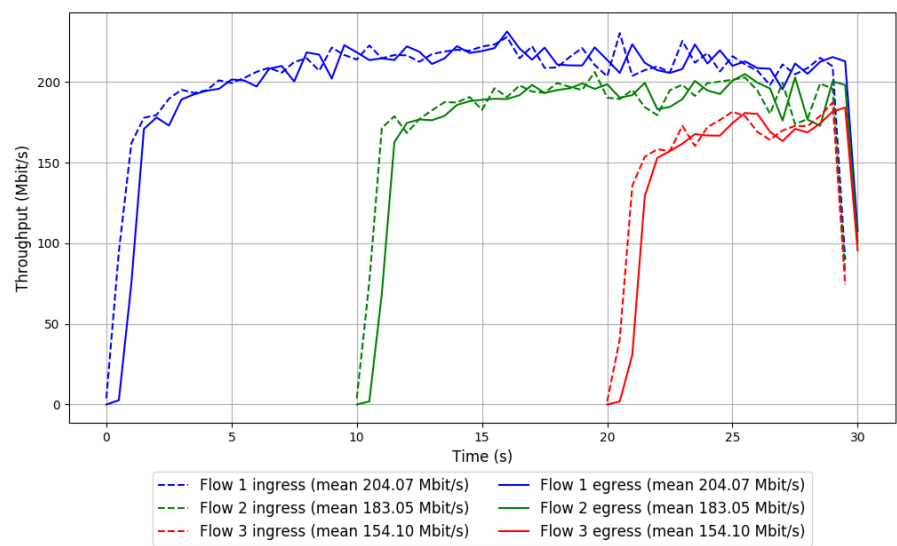


Run 9: Statistics of Indigo

Start at: 2018-06-20 13:33:10
End at: 2018-06-20 13:33:40
Local clock offset: 0.024 ms
Remote clock offset: -0.032 ms

Below is generated by plot.py at 2018-06-20 15:36:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 375.41 Mbit/s
95th percentile per-packet one-way delay: 57.869 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 204.07 Mbit/s
95th percentile per-packet one-way delay: 56.263 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 183.05 Mbit/s
95th percentile per-packet one-way delay: 58.333 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 154.10 Mbit/s
95th percentile per-packet one-way delay: 59.488 ms
Loss rate: 0.00%

Run 9: Report of Indigo — Data Link

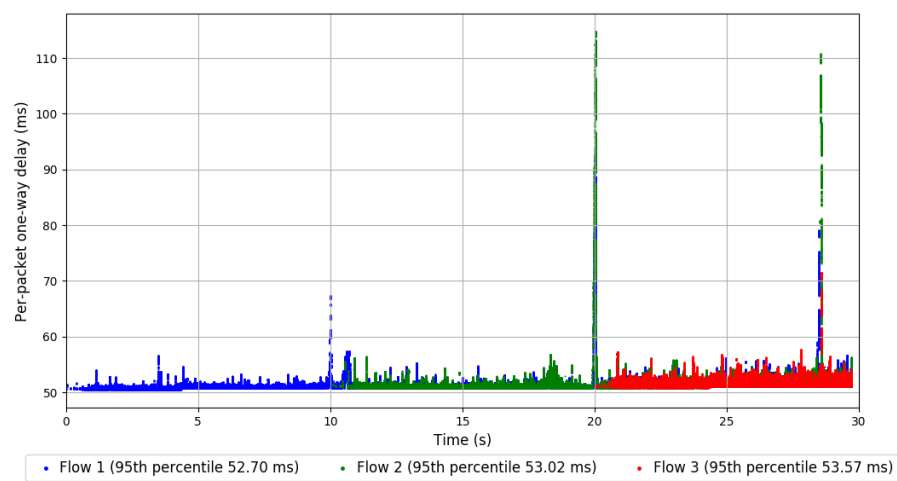
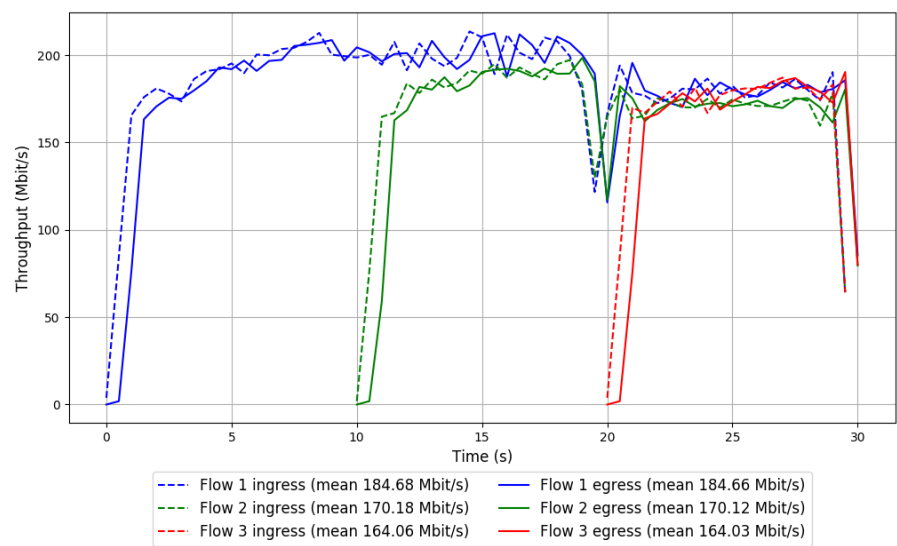


Run 10: Statistics of Indigo

Start at: 2018-06-20 13:56:10
End at: 2018-06-20 13:56:40
Local clock offset: -0.316 ms
Remote clock offset: -0.017 ms

Below is generated by plot.py at 2018-06-20 15:36:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 350.60 Mbit/s
95th percentile per-packet one-way delay: 52.985 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 184.66 Mbit/s
95th percentile per-packet one-way delay: 52.704 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 170.12 Mbit/s
95th percentile per-packet one-way delay: 53.021 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 164.03 Mbit/s
95th percentile per-packet one-way delay: 53.572 ms
Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

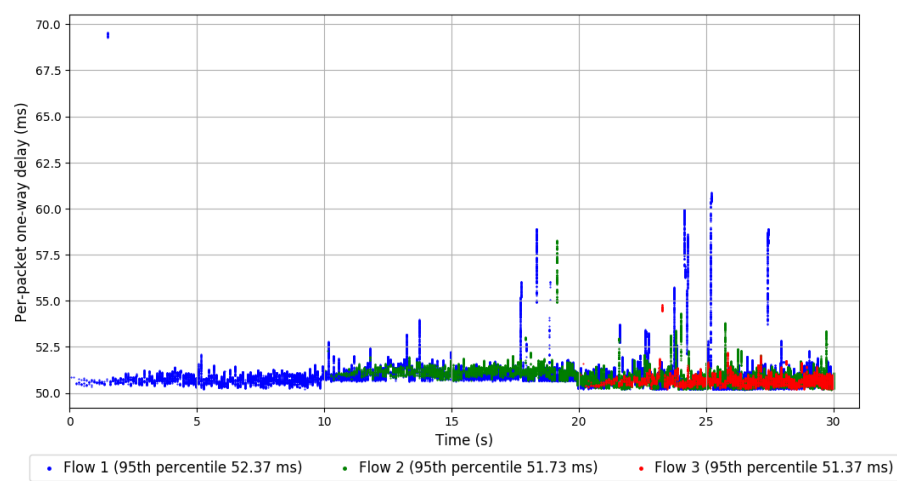
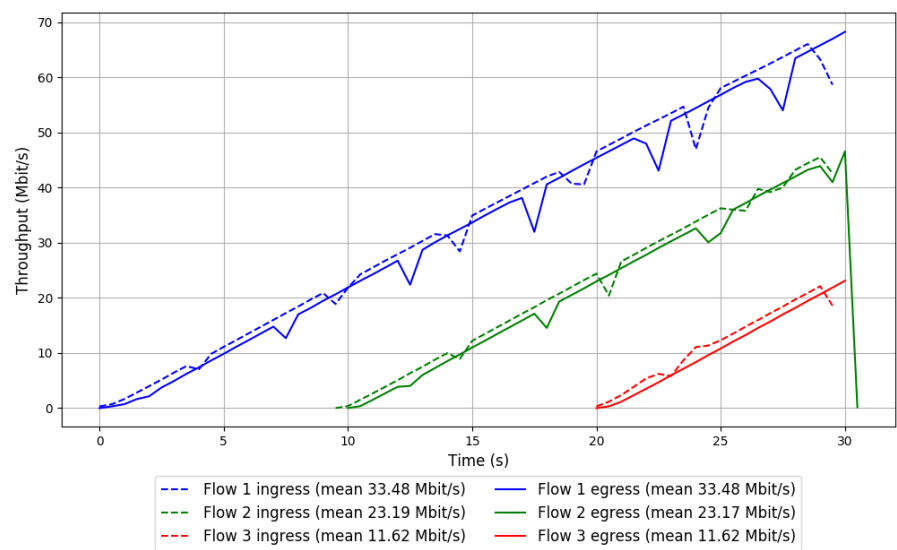


```
Run 1: Statistics of LEDBAT

Start at: 2018-06-20 10:15:54
End at: 2018-06-20 10:16:24
Local clock offset: -0.015 ms
Remote clock offset: 0.031 ms

# Below is generated by plot.py at 2018-06-20 15:36:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 52.71 Mbit/s
95th percentile per-packet one-way delay: 51.948 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 33.48 Mbit/s
95th percentile per-packet one-way delay: 52.369 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 23.17 Mbit/s
95th percentile per-packet one-way delay: 51.730 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 11.62 Mbit/s
95th percentile per-packet one-way delay: 51.367 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

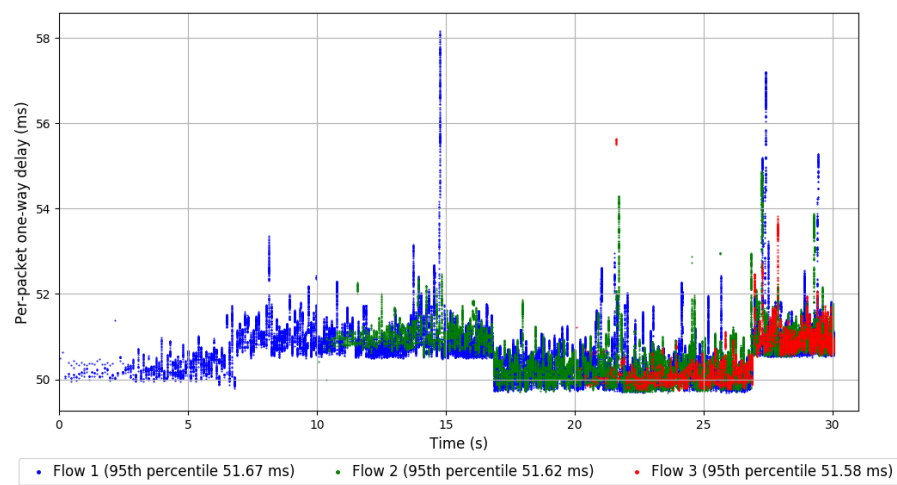
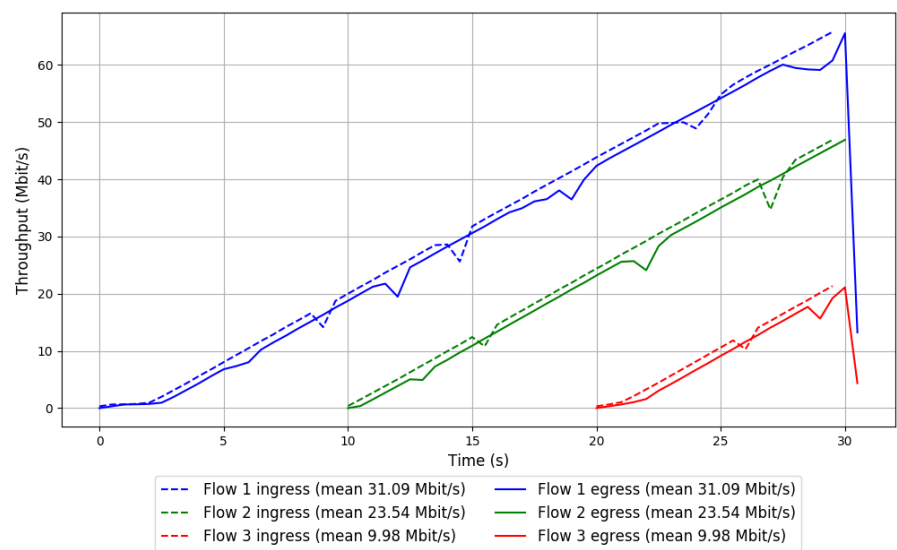


```
Run 2: Statistics of LEDBAT

Start at: 2018-06-20 10:39:07
End at: 2018-06-20 10:39:37
Local clock offset: -0.014 ms
Remote clock offset: 0.116 ms

# Below is generated by plot.py at 2018-06-20 15:36:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 50.06 Mbit/s
95th percentile per-packet one-way delay: 51.650 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 31.09 Mbit/s
95th percentile per-packet one-way delay: 51.671 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 23.54 Mbit/s
95th percentile per-packet one-way delay: 51.617 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 9.98 Mbit/s
95th percentile per-packet one-way delay: 51.581 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link

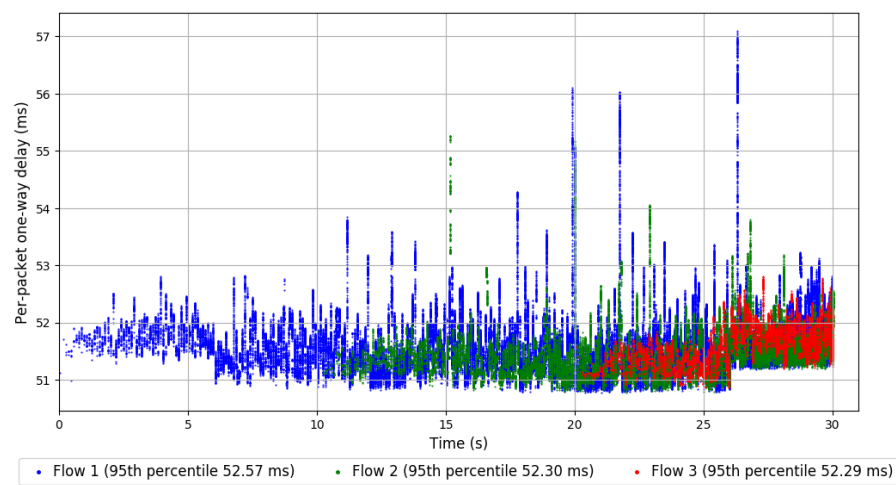
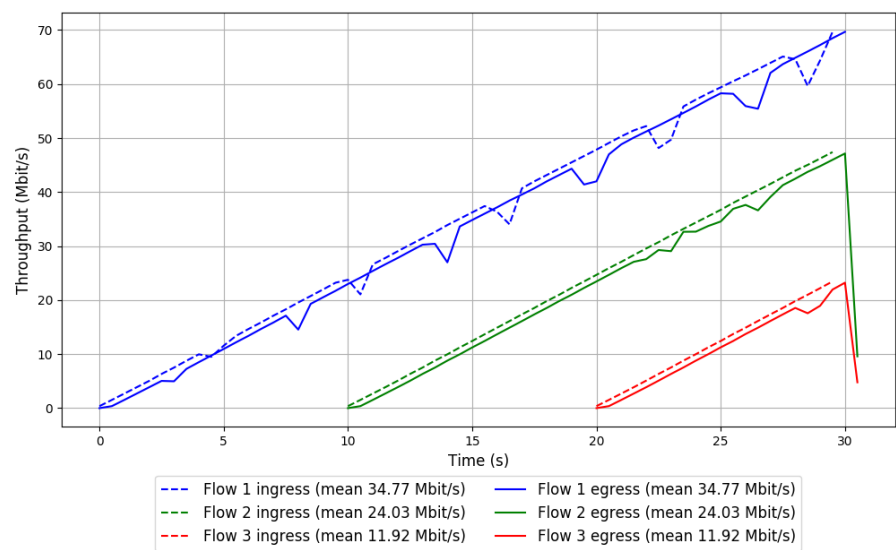


Run 3: Statistics of LEDBAT

Start at: 2018-06-20 11:02:18
End at: 2018-06-20 11:02:48
Local clock offset: -0.396 ms
Remote clock offset: 0.149 ms

Below is generated by plot.py at 2018-06-20 15:36:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 54.68 Mbit/s
95th percentile per-packet one-way delay: 52.483 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 34.77 Mbit/s
95th percentile per-packet one-way delay: 52.570 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.03 Mbit/s
95th percentile per-packet one-way delay: 52.304 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.92 Mbit/s
95th percentile per-packet one-way delay: 52.287 ms
Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-06-20 11:25:43

End at: 2018-06-20 11:26:13

Local clock offset: -0.026 ms

Remote clock offset: 0.06 ms

Below is generated by plot.py at 2018-06-20 15:36:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 54.25 Mbit/s

95th percentile per-packet one-way delay: 51.495 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 35.19 Mbit/s

95th percentile per-packet one-way delay: 51.568 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 23.04 Mbit/s

95th percentile per-packet one-way delay: 51.454 ms

Loss rate: 0.00%

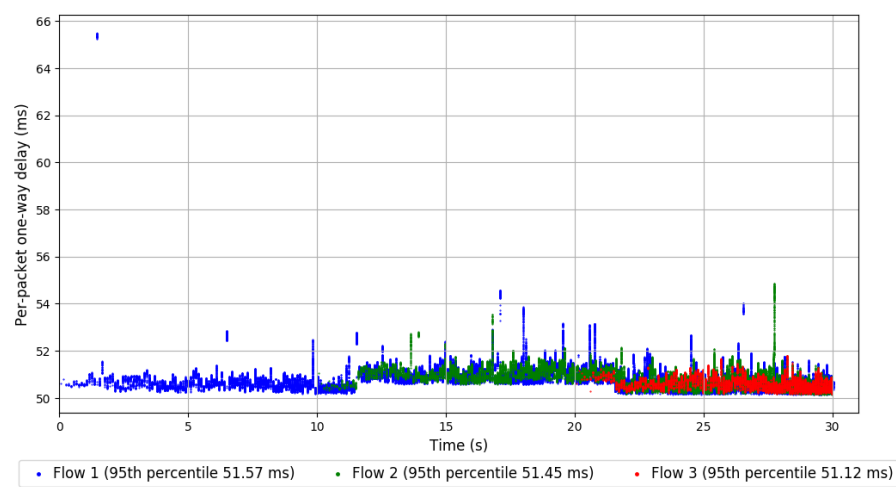
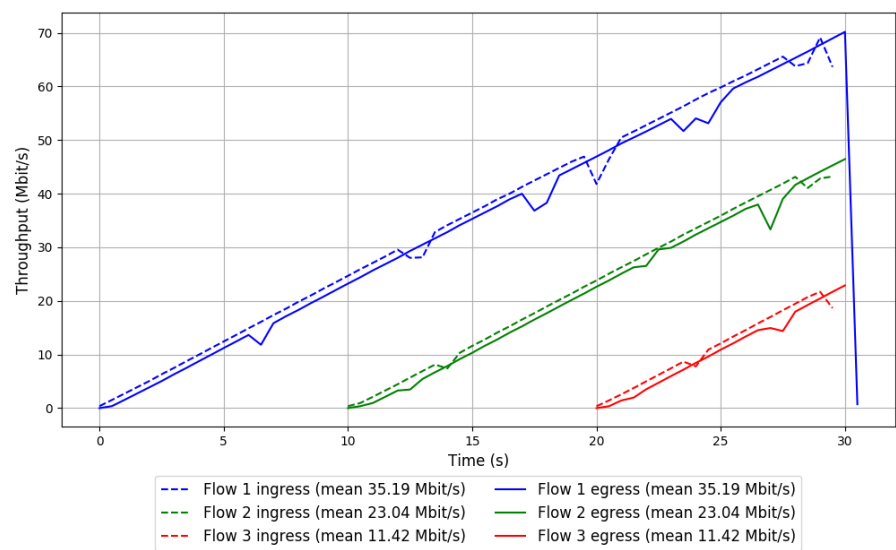
-- Flow 3:

Average throughput: 11.42 Mbit/s

95th percentile per-packet one-way delay: 51.122 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-06-20 11:48:42

End at: 2018-06-20 11:49:12

Local clock offset: -0.017 ms

Remote clock offset: 0.083 ms

Below is generated by plot.py at 2018-06-20 15:36:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 52.25 Mbit/s

95th percentile per-packet one-way delay: 51.479 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 35.06 Mbit/s

95th percentile per-packet one-way delay: 51.592 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 20.55 Mbit/s

95th percentile per-packet one-way delay: 51.393 ms

Loss rate: 0.00%

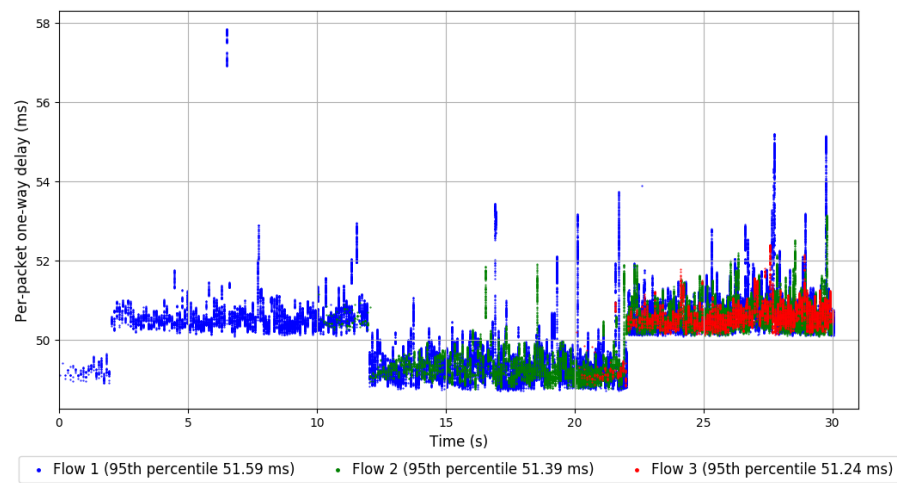
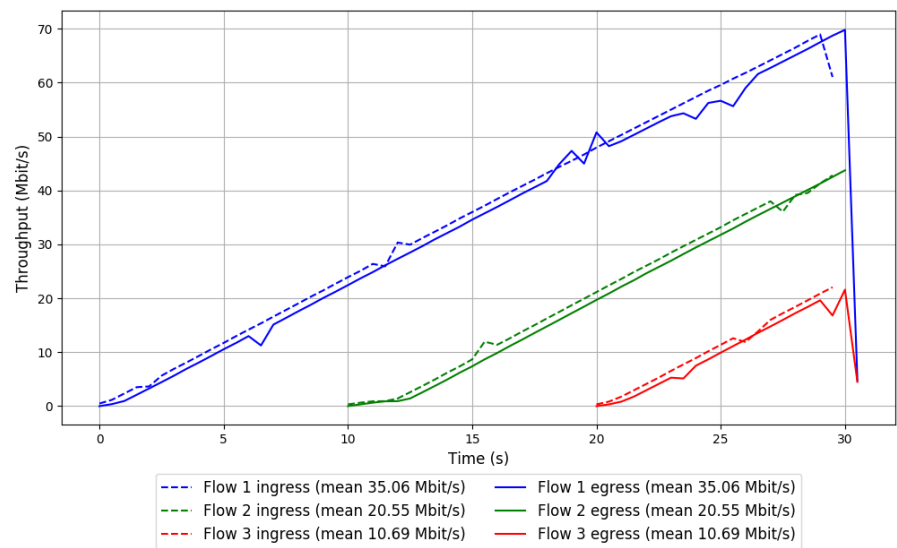
-- Flow 3:

Average throughput: 10.69 Mbit/s

95th percentile per-packet one-way delay: 51.237 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-06-20 12:11:49

End at: 2018-06-20 12:12:19

Local clock offset: -0.064 ms

Remote clock offset: 0.003 ms

Below is generated by plot.py at 2018-06-20 15:36:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 54.24 Mbit/s

95th percentile per-packet one-way delay: 51.998 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 34.84 Mbit/s

95th percentile per-packet one-way delay: 52.061 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 23.41 Mbit/s

95th percentile per-packet one-way delay: 51.978 ms

Loss rate: 0.04%

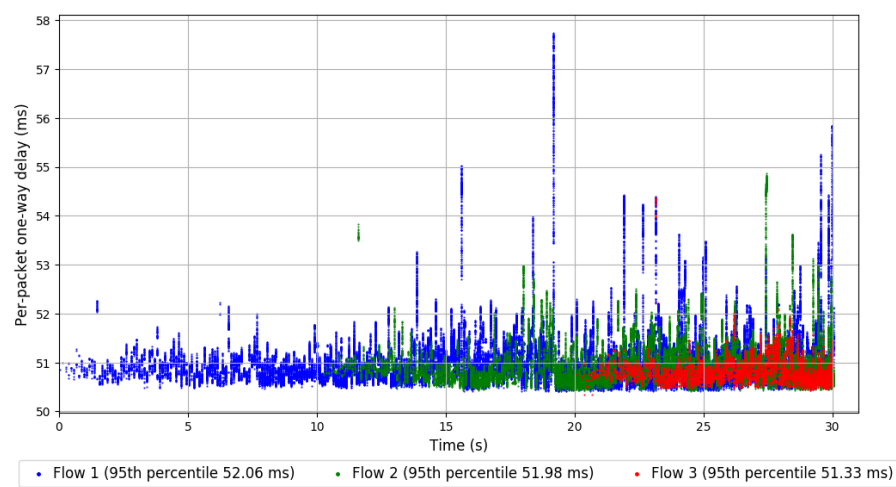
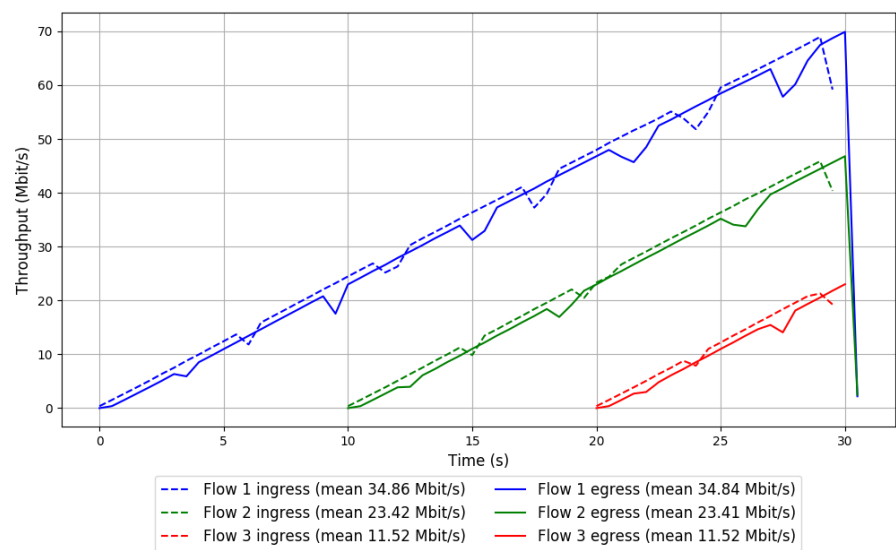
-- Flow 3:

Average throughput: 11.52 Mbit/s

95th percentile per-packet one-way delay: 51.328 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link

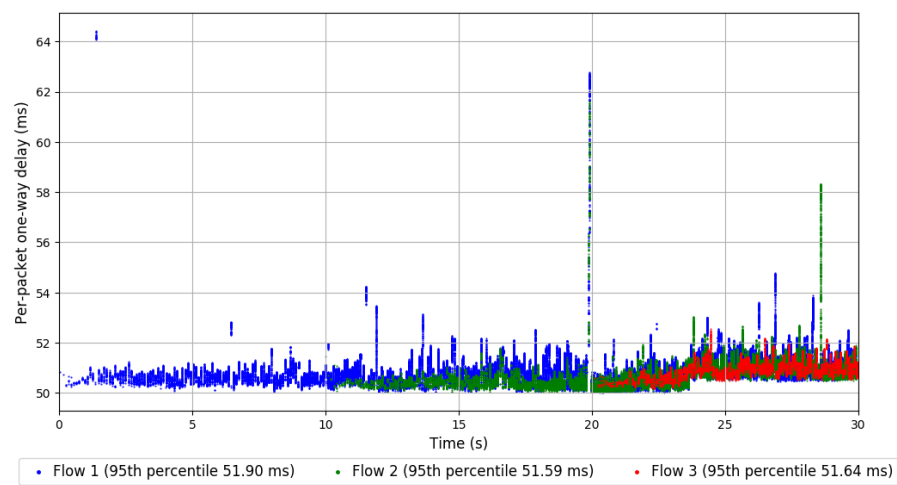
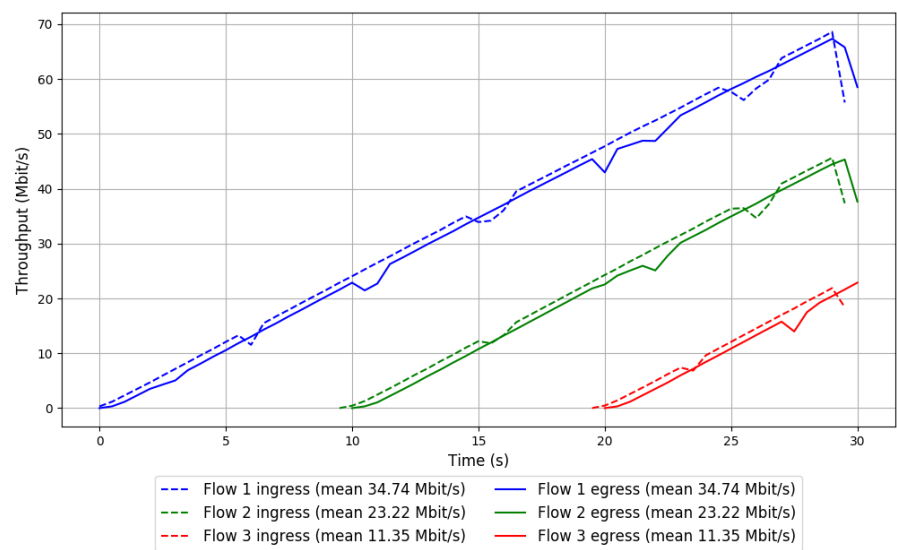


Run 7: Statistics of LEDBAT

Start at: 2018-06-20 12:35:01
End at: 2018-06-20 12:35:31
Local clock offset: -0.266 ms
Remote clock offset: -0.074 ms

Below is generated by plot.py at 2018-06-20 15:36:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 53.93 Mbit/s
95th percentile per-packet one-way delay: 51.818 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 34.74 Mbit/s
95th percentile per-packet one-way delay: 51.902 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 23.22 Mbit/s
95th percentile per-packet one-way delay: 51.587 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.35 Mbit/s
95th percentile per-packet one-way delay: 51.643 ms
Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link

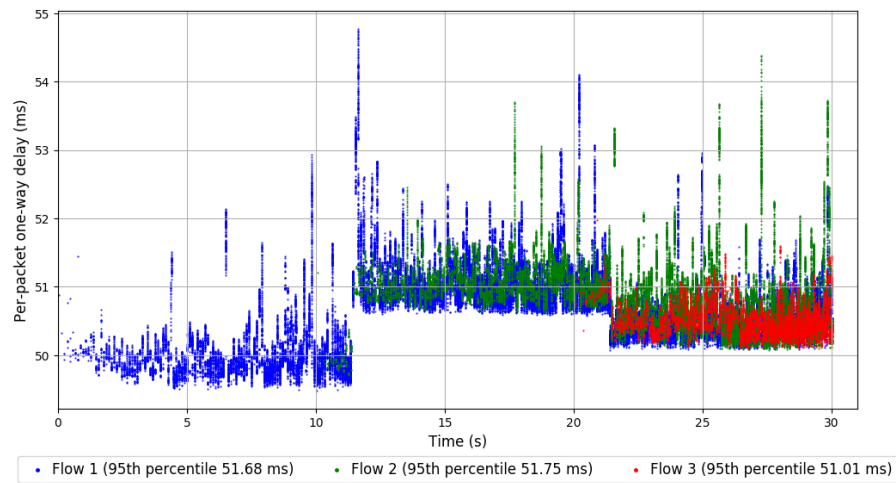
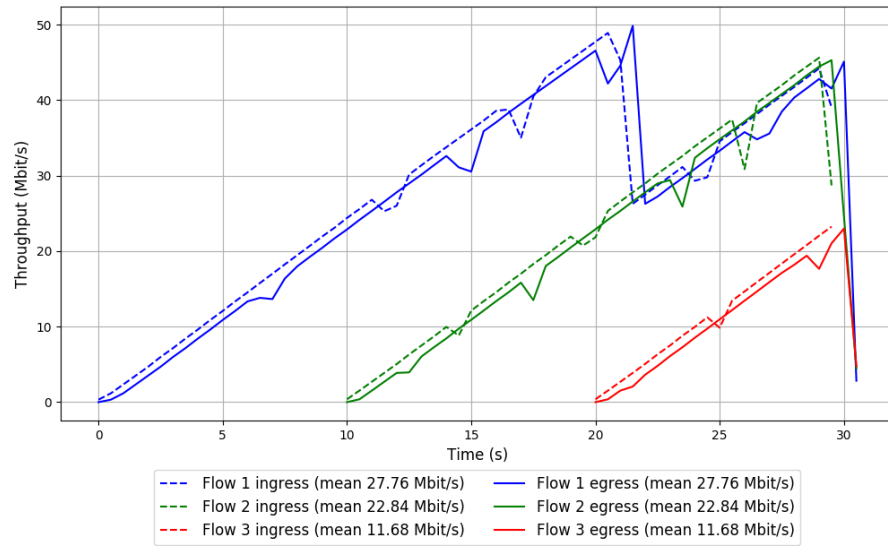


Run 8: Statistics of LEDBAT

Start at: 2018-06-20 12:57:53
End at: 2018-06-20 12:58:23
Local clock offset: 0.093 ms
Remote clock offset: -0.039 ms

Below is generated by plot.py at 2018-06-20 15:36:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 46.84 Mbit/s
95th percentile per-packet one-way delay: 51.659 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 27.76 Mbit/s
95th percentile per-packet one-way delay: 51.678 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 22.84 Mbit/s
95th percentile per-packet one-way delay: 51.753 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.68 Mbit/s
95th percentile per-packet one-way delay: 51.009 ms
Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-06-20 13:20:47

End at: 2018-06-20 13:21:17

Local clock offset: 0.113 ms

Remote clock offset: 0.006 ms

Below is generated by plot.py at 2018-06-20 15:36:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 50.90 Mbit/s

95th percentile per-packet one-way delay: 51.491 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 31.82 Mbit/s

95th percentile per-packet one-way delay: 51.464 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 23.11 Mbit/s

95th percentile per-packet one-way delay: 51.597 ms

Loss rate: 0.00%

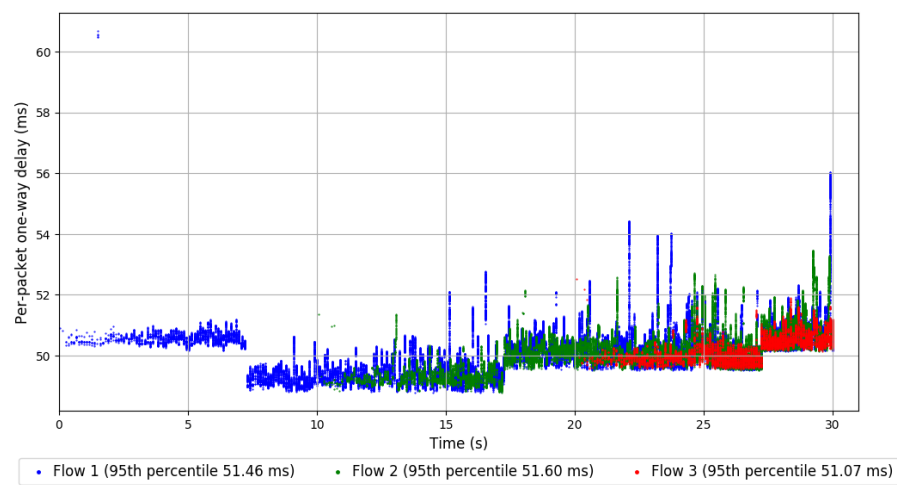
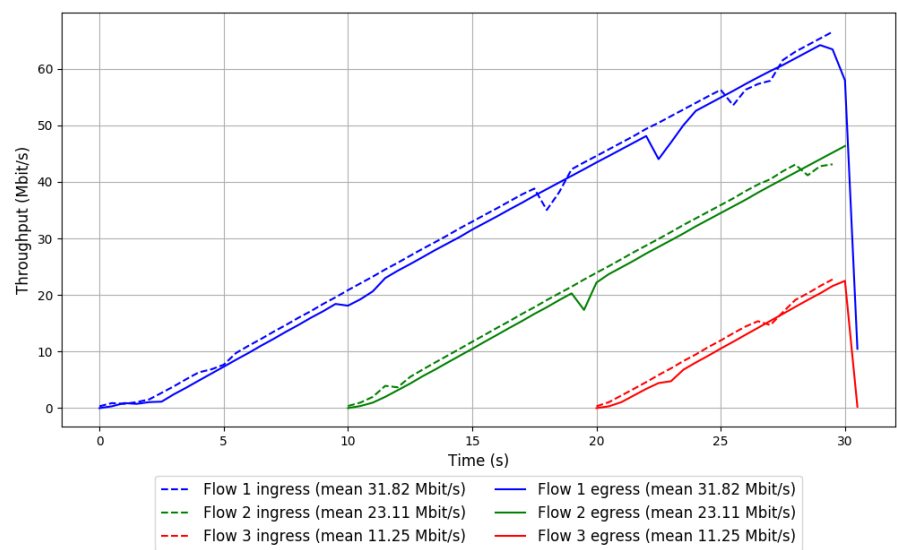
-- Flow 3:

Average throughput: 11.25 Mbit/s

95th percentile per-packet one-way delay: 51.066 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-06-20 13:43:52

End at: 2018-06-20 13:44:22

Local clock offset: -0.314 ms

Remote clock offset: 0.005 ms

Below is generated by plot.py at 2018-06-20 15:36:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.13 Mbit/s

95th percentile per-packet one-way delay: 52.122 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 33.72 Mbit/s

95th percentile per-packet one-way delay: 52.187 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 23.42 Mbit/s

95th percentile per-packet one-way delay: 52.044 ms

Loss rate: 0.00%

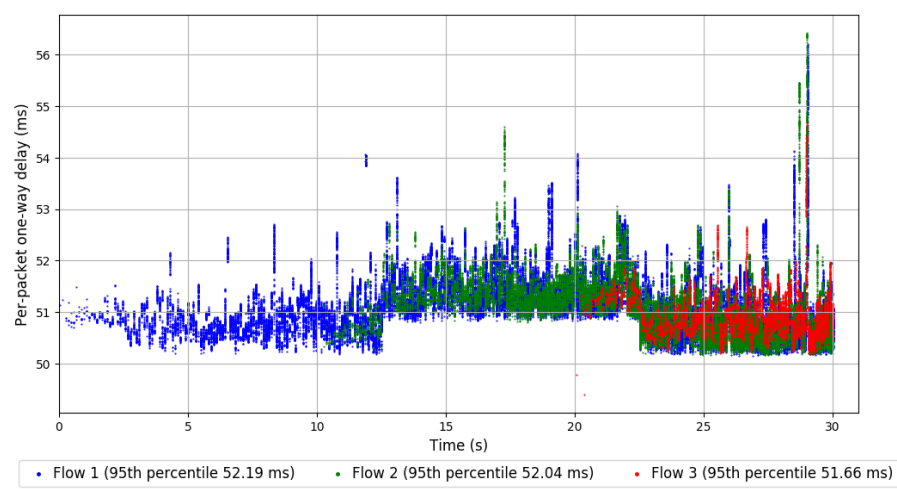
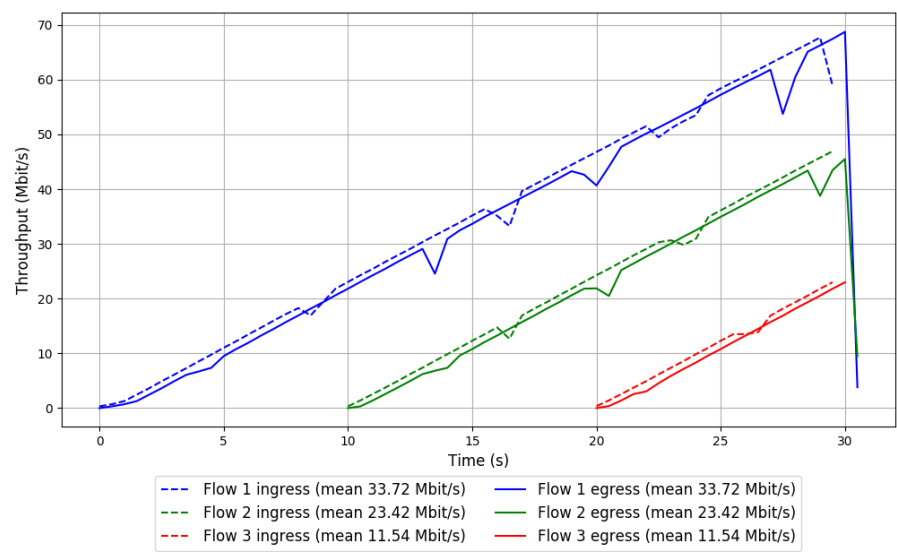
-- Flow 3:

Average throughput: 11.54 Mbit/s

95th percentile per-packet one-way delay: 51.658 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-06-20 10:29:53

End at: 2018-06-20 10:30:23

Local clock offset: -0.046 ms

Remote clock offset: 0.034 ms

Below is generated by plot.py at 2018-06-20 15:36:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 569.55 Mbit/s

95th percentile per-packet one-way delay: 229.541 ms

Loss rate: 3.58%

-- Flow 1:

Average throughput: 520.22 Mbit/s

95th percentile per-packet one-way delay: 229.960 ms

Loss rate: 3.73%

-- Flow 2:

Average throughput: 60.30 Mbit/s

95th percentile per-packet one-way delay: 162.447 ms

Loss rate: 1.69%

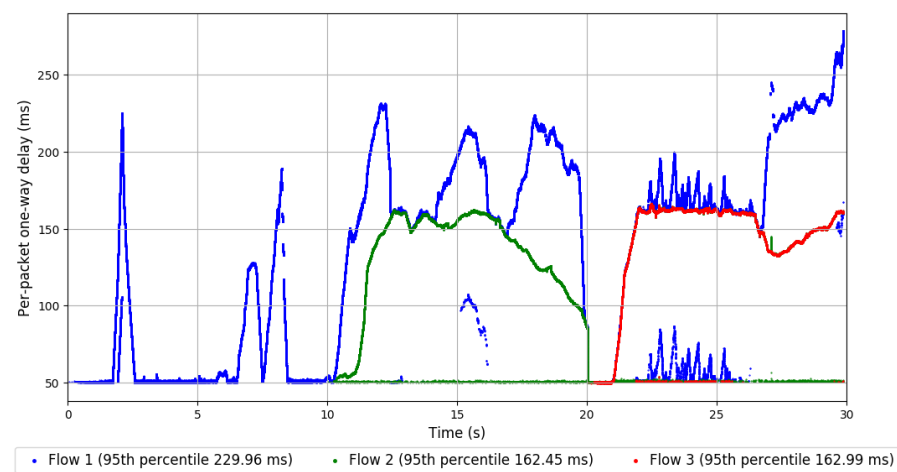
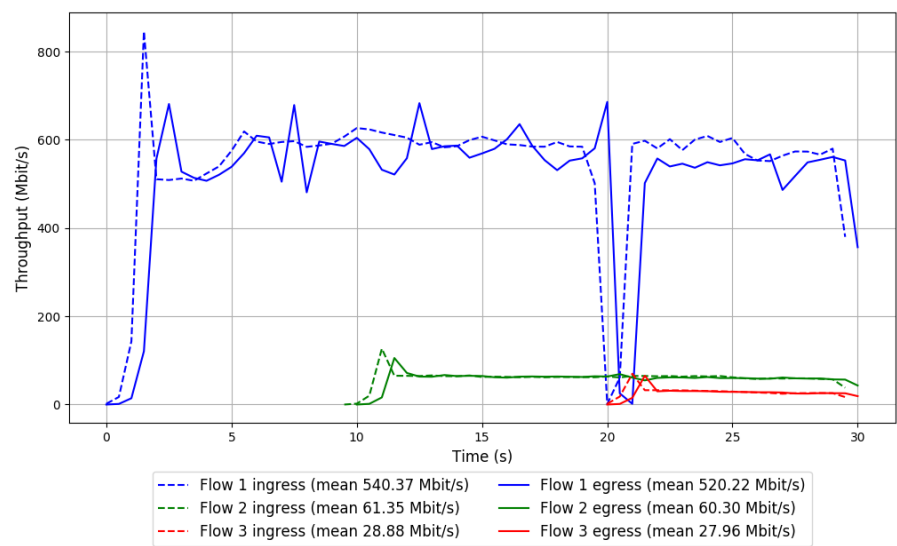
-- Flow 3:

Average throughput: 27.96 Mbit/s

95th percentile per-packet one-way delay: 162.994 ms

Loss rate: 3.14%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-06-20 10:53:04

End at: 2018-06-20 10:53:34

Local clock offset: 0.369 ms

Remote clock offset: 0.129 ms

Below is generated by plot.py at 2018-06-20 15:36:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 572.59 Mbit/s

95th percentile per-packet one-way delay: 189.470 ms

Loss rate: 5.29%

-- Flow 1:

Average throughput: 497.79 Mbit/s

95th percentile per-packet one-way delay: 192.080 ms

Loss rate: 5.35%

-- Flow 2:

Average throughput: 111.64 Mbit/s

95th percentile per-packet one-way delay: 170.334 ms

Loss rate: 4.90%

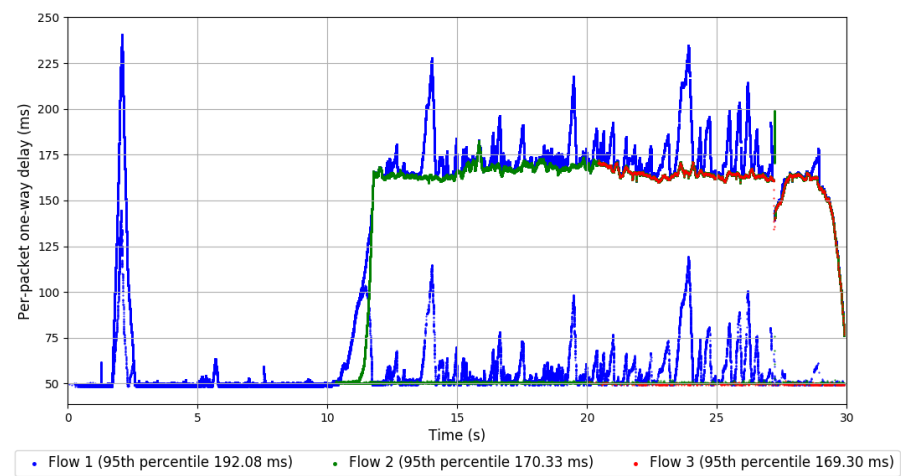
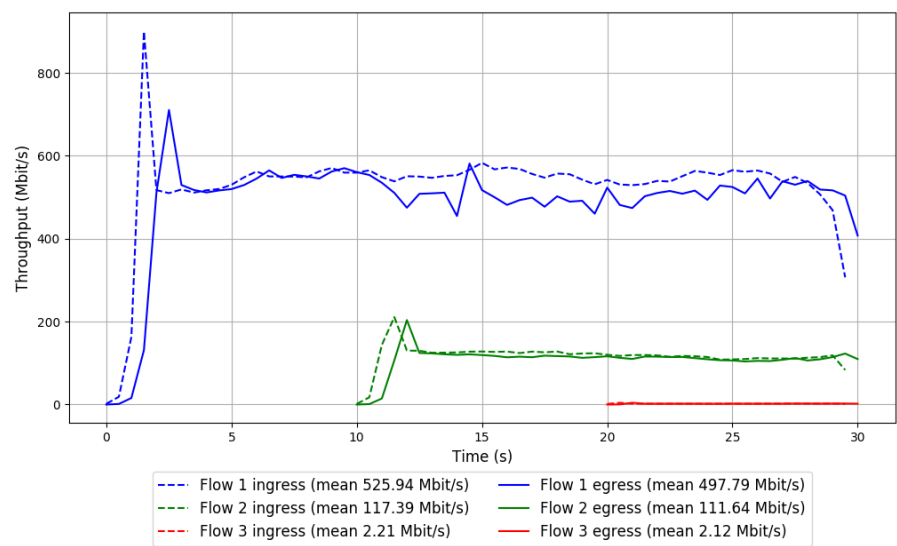
-- Flow 3:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 169.296 ms

Loss rate: 4.04%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-06-20 11:16:25

End at: 2018-06-20 11:16:55

Local clock offset: -0.036 ms

Remote clock offset: 0.11 ms

Below is generated by plot.py at 2018-06-20 15:36:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 590.52 Mbit/s

95th percentile per-packet one-way delay: 192.415 ms

Loss rate: 5.62%

-- Flow 1:

Average throughput: 509.57 Mbit/s

95th percentile per-packet one-way delay: 195.097 ms

Loss rate: 5.75%

-- Flow 2:

Average throughput: 120.75 Mbit/s

95th percentile per-packet one-way delay: 162.402 ms

Loss rate: 4.81%

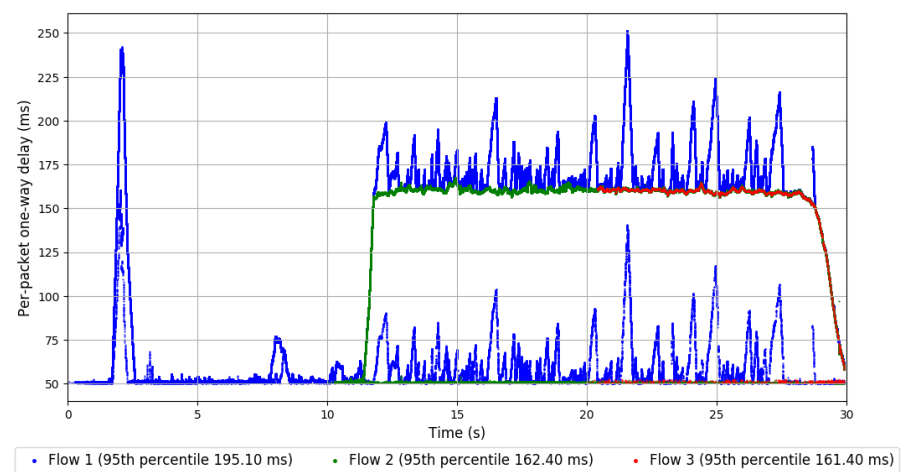
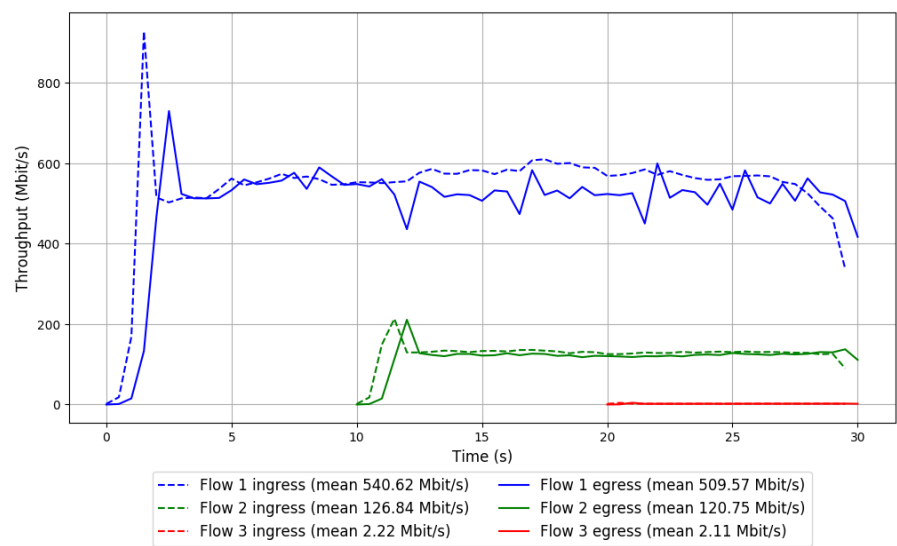
-- Flow 3:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 161.397 ms

Loss rate: 4.85%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-06-20 11:39:48

End at: 2018-06-20 11:40:18

Local clock offset: -0.404 ms

Remote clock offset: 0.09 ms

Below is generated by plot.py at 2018-06-20 15:36:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 553.75 Mbit/s

95th percentile per-packet one-way delay: 184.154 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 512.38 Mbit/s

95th percentile per-packet one-way delay: 184.608 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 58.50 Mbit/s

95th percentile per-packet one-way delay: 168.624 ms

Loss rate: 0.18%

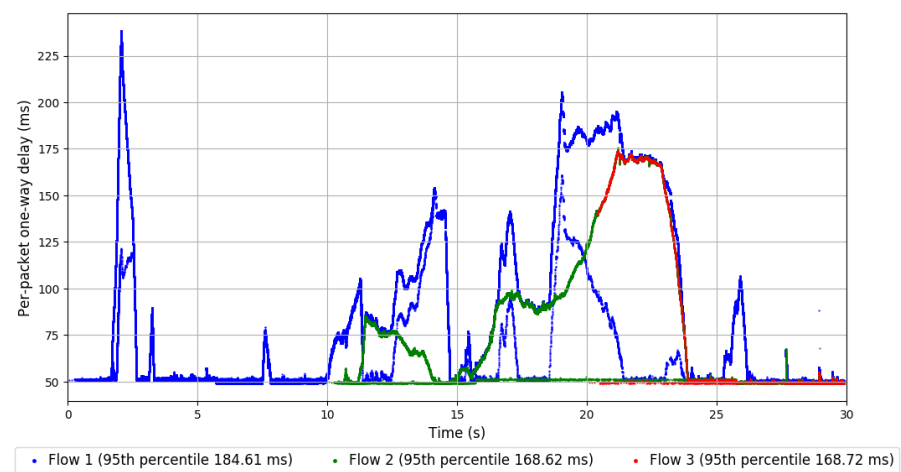
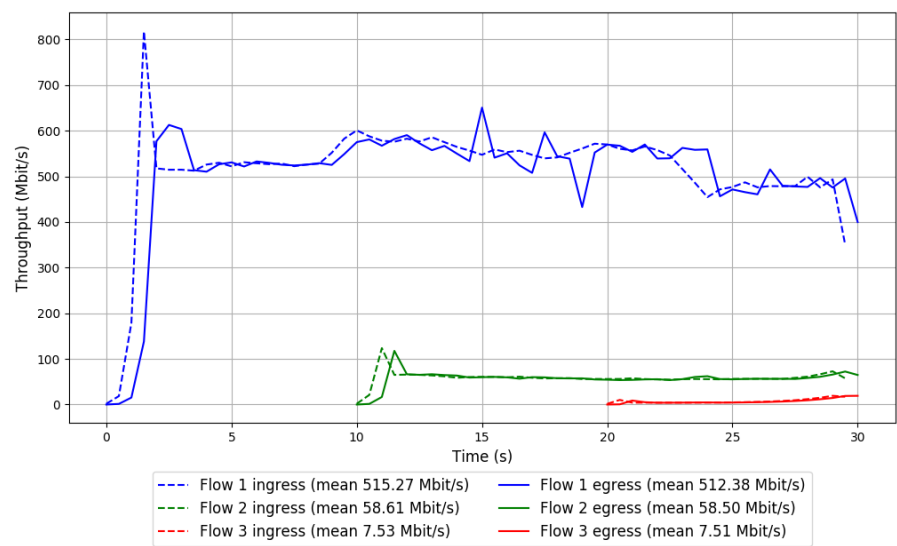
-- Flow 3:

Average throughput: 7.51 Mbit/s

95th percentile per-packet one-way delay: 168.720 ms

Loss rate: 0.23%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-06-20 12:02:41

End at: 2018-06-20 12:03:11

Local clock offset: -0.065 ms

Remote clock offset: 0.042 ms

Below is generated by plot.py at 2018-06-20 15:36:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 551.84 Mbit/s

95th percentile per-packet one-way delay: 157.787 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 456.36 Mbit/s

95th percentile per-packet one-way delay: 159.099 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 126.30 Mbit/s

95th percentile per-packet one-way delay: 155.665 ms

Loss rate: 0.09%

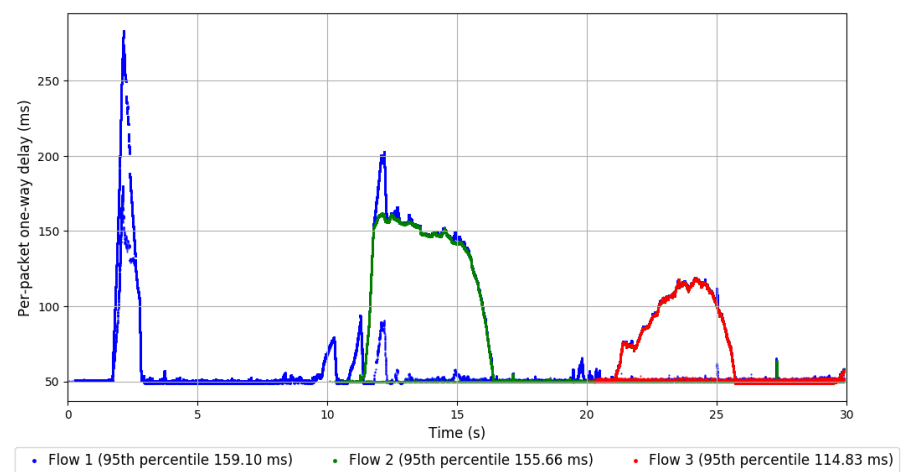
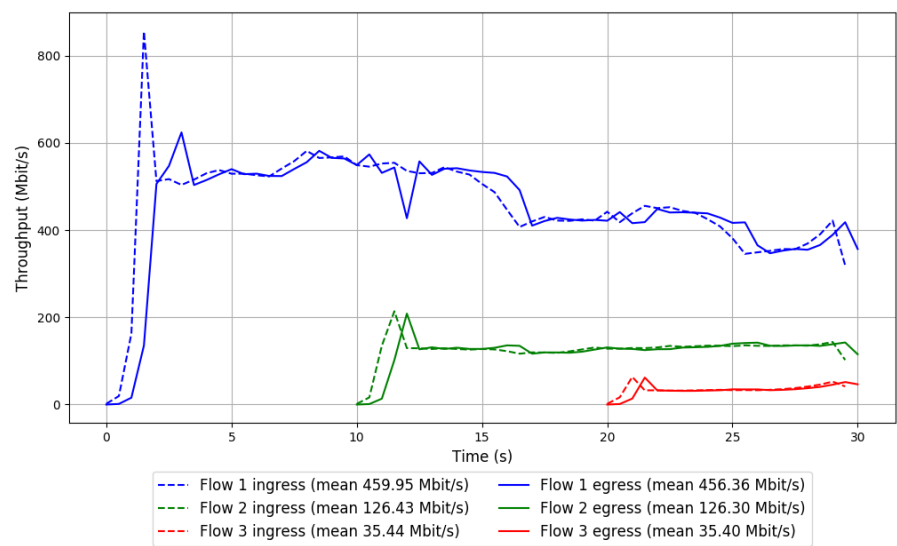
-- Flow 3:

Average throughput: 35.40 Mbit/s

95th percentile per-packet one-way delay: 114.835 ms

Loss rate: 0.11%

Run 5: Report of PCC-Allegro — Data Link

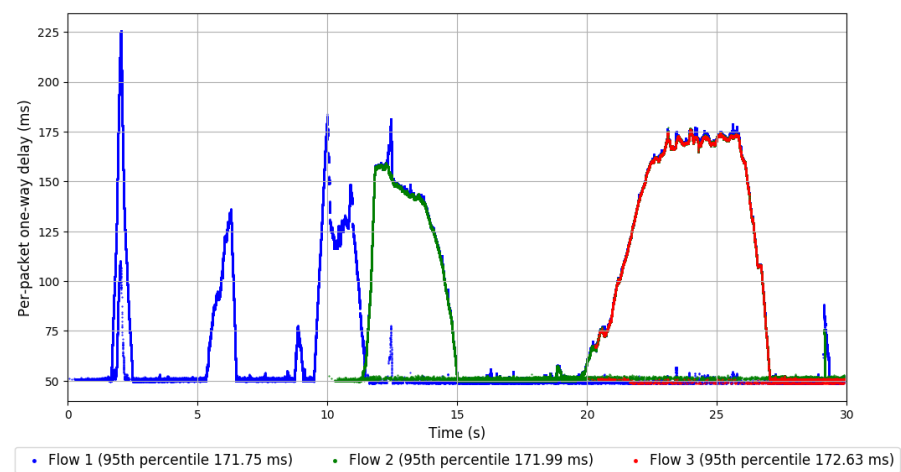
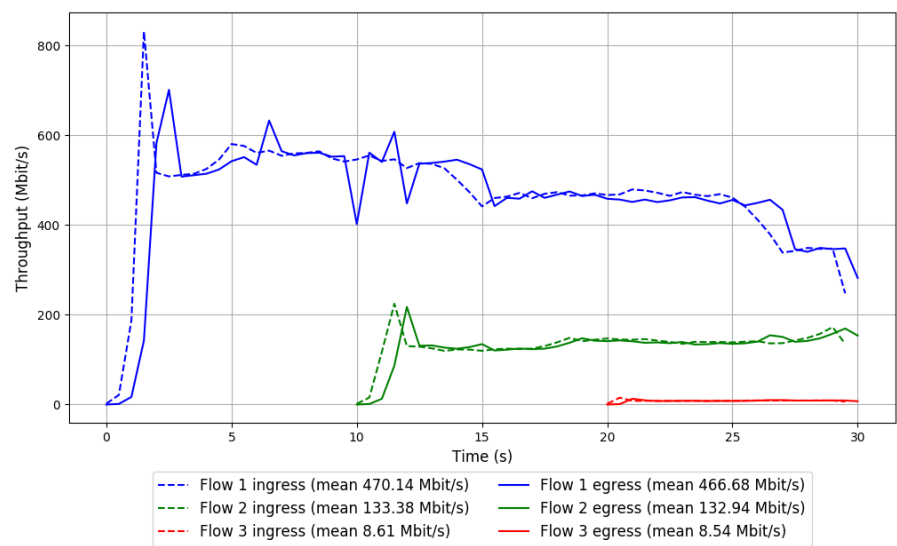


Run 6: Statistics of PCC-Allegro

Start at: 2018-06-20 12:25:43
End at: 2018-06-20 12:26:13
Local clock offset: 0.063 ms
Remote clock offset: -0.062 ms

Below is generated by plot.py at 2018-06-20 15:36:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 557.83 Mbit/s
95th percentile per-packet one-way delay: 171.814 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 466.68 Mbit/s
95th percentile per-packet one-way delay: 171.749 ms
Loss rate: 0.74%
-- Flow 2:
Average throughput: 132.94 Mbit/s
95th percentile per-packet one-way delay: 171.986 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 8.54 Mbit/s
95th percentile per-packet one-way delay: 172.629 ms
Loss rate: 0.85%

Run 6: Report of PCC-Allegro — Data Link

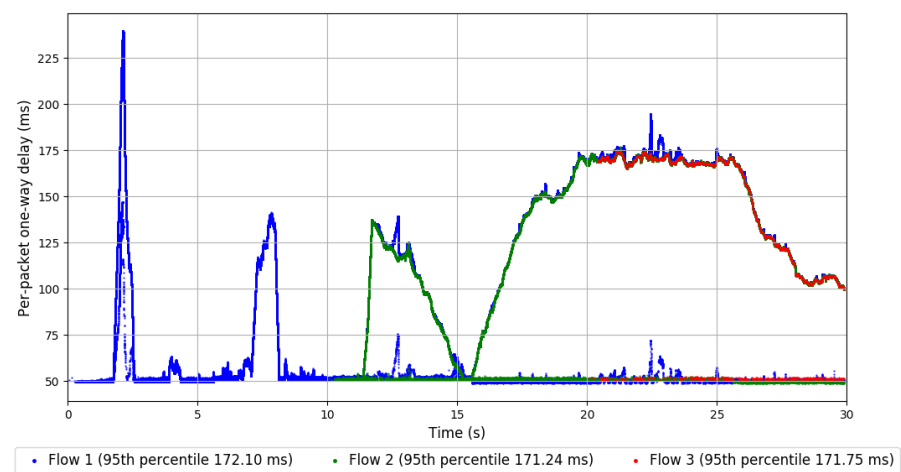
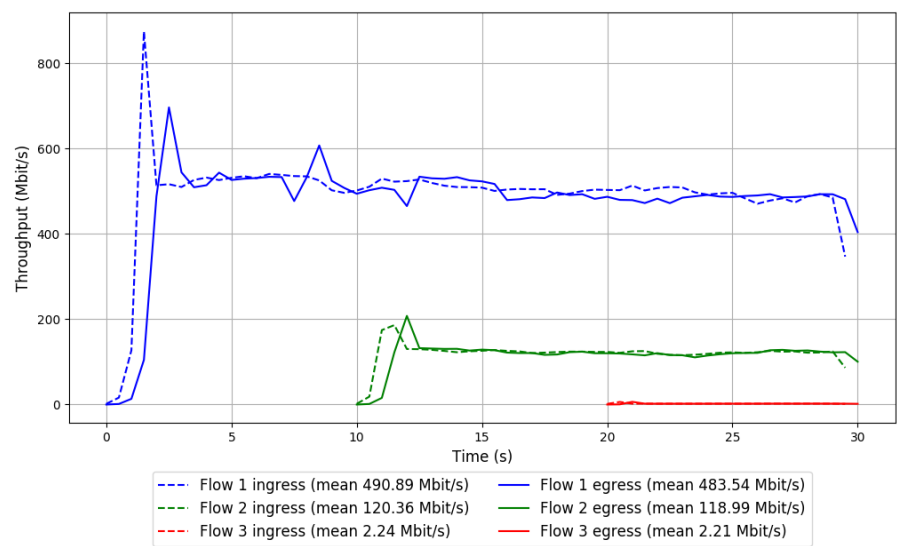


Run 7: Statistics of PCC-Allegro

Start at: 2018-06-20 12:48:49
End at: 2018-06-20 12:49:19
Local clock offset: 0.096 ms
Remote clock offset: -0.075 ms

Below is generated by plot.py at 2018-06-20 15:42:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 563.36 Mbit/s
95th percentile per-packet one-way delay: 171.926 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 483.54 Mbit/s
95th percentile per-packet one-way delay: 172.100 ms
Loss rate: 1.50%
-- Flow 2:
Average throughput: 118.99 Mbit/s
95th percentile per-packet one-way delay: 171.240 ms
Loss rate: 1.13%
-- Flow 3:
Average throughput: 2.21 Mbit/s
95th percentile per-packet one-way delay: 171.752 ms
Loss rate: 1.58%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-06-20 13:11:37

End at: 2018-06-20 13:12:07

Local clock offset: 0.426 ms

Remote clock offset: 0.009 ms

Below is generated by plot.py at 2018-06-20 15:44:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 561.17 Mbit/s

95th percentile per-packet one-way delay: 132.249 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 466.51 Mbit/s

95th percentile per-packet one-way delay: 140.362 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 138.04 Mbit/s

95th percentile per-packet one-way delay: 113.795 ms

Loss rate: 0.00%

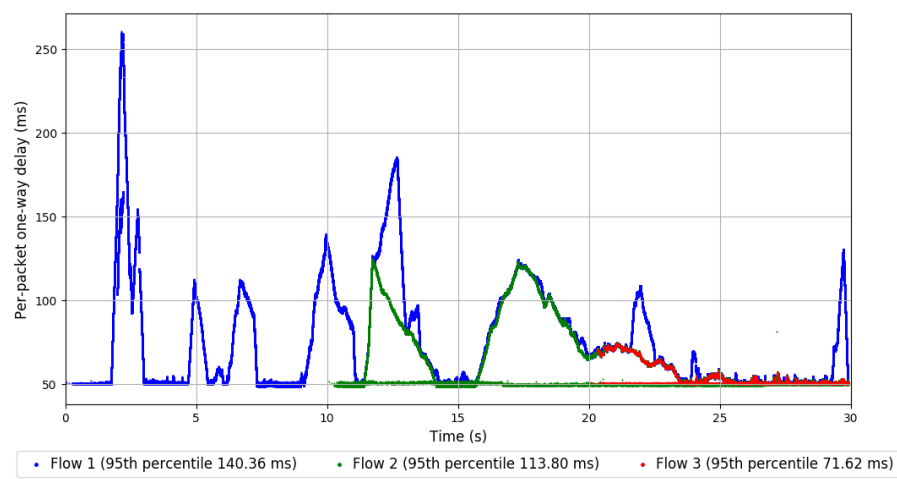
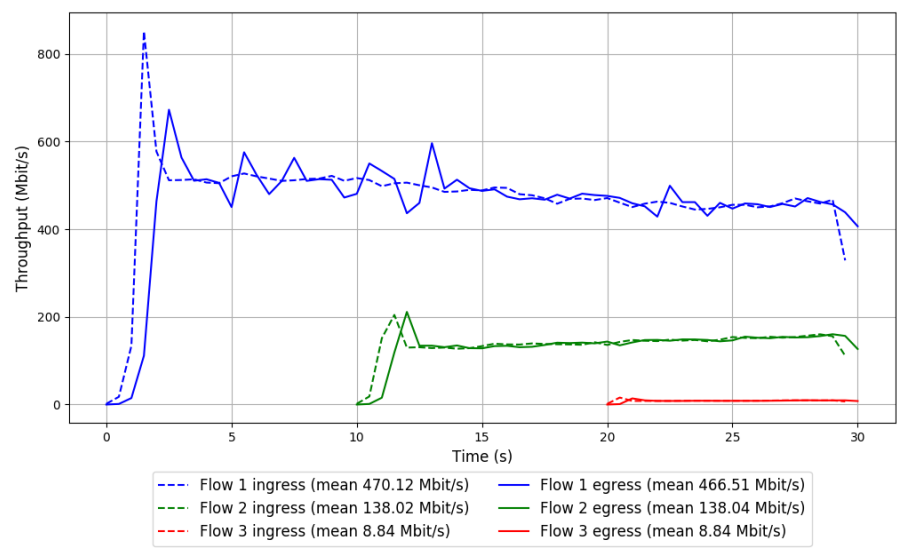
-- Flow 3:

Average throughput: 8.84 Mbit/s

95th percentile per-packet one-way delay: 71.616 ms

Loss rate: 0.00%

Run 8: Report of PCC-Allegro — Data Link

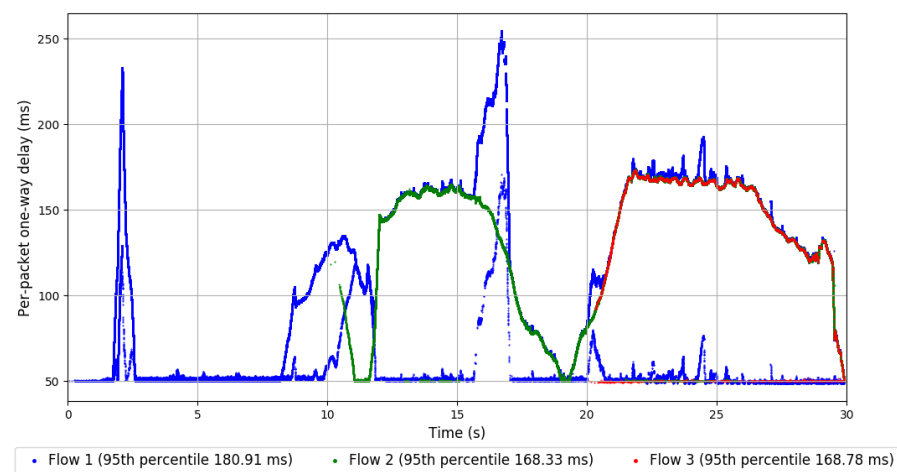
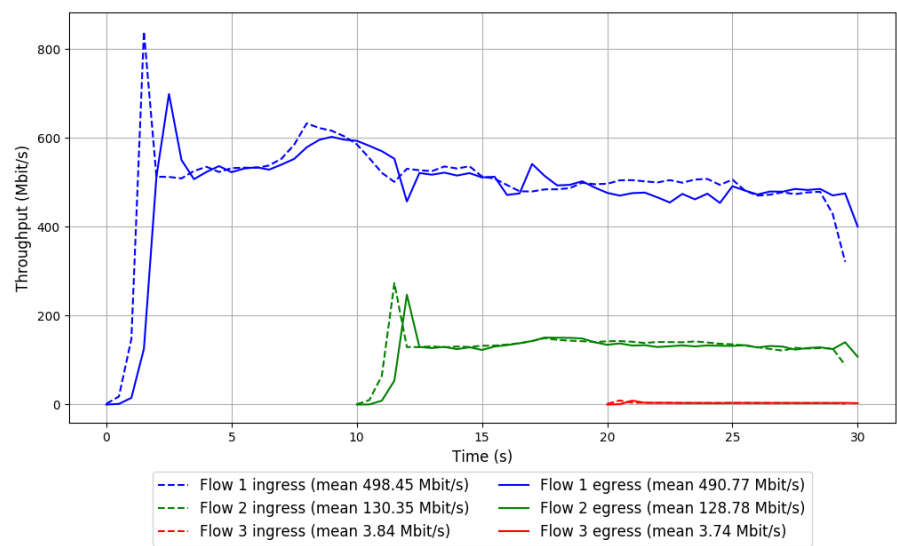


Run 9: Statistics of PCC-Allegro

Start at: 2018-06-20 13:34:42
End at: 2018-06-20 13:35:12
Local clock offset: 0.064 ms
Remote clock offset: -0.075 ms

Below is generated by plot.py at 2018-06-20 15:44:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 577.33 Mbit/s
95th percentile per-packet one-way delay: 174.719 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 490.77 Mbit/s
95th percentile per-packet one-way delay: 180.906 ms
Loss rate: 1.54%
-- Flow 2:
Average throughput: 128.78 Mbit/s
95th percentile per-packet one-way delay: 168.326 ms
Loss rate: 1.54%
-- Flow 3:
Average throughput: 3.74 Mbit/s
95th percentile per-packet one-way delay: 168.784 ms
Loss rate: 2.64%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-06-20 13:57:40

End at: 2018-06-20 13:58:10

Local clock offset: 0.008 ms

Remote clock offset: 0.091 ms

Below is generated by plot.py at 2018-06-20 15:44:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 573.76 Mbit/s

95th percentile per-packet one-way delay: 153.697 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 469.87 Mbit/s

95th percentile per-packet one-way delay: 154.263 ms

Loss rate: 0.70%

-- Flow 2:

Average throughput: 126.19 Mbit/s

95th percentile per-packet one-way delay: 152.044 ms

Loss rate: 0.23%

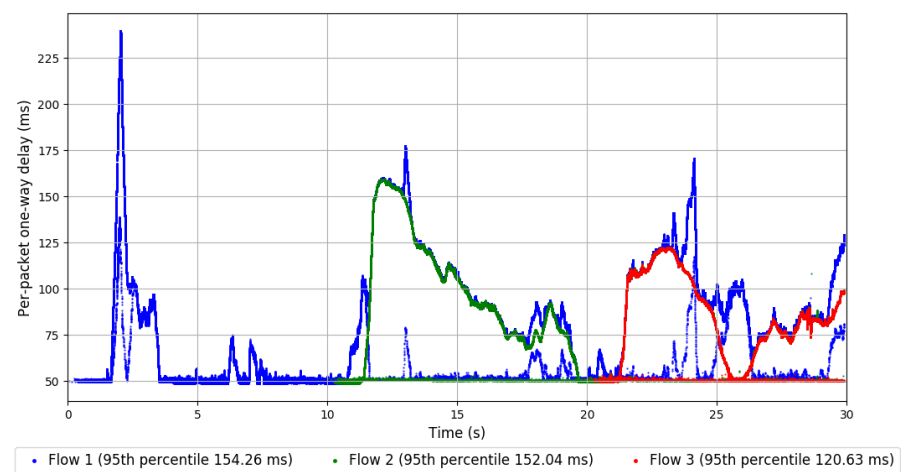
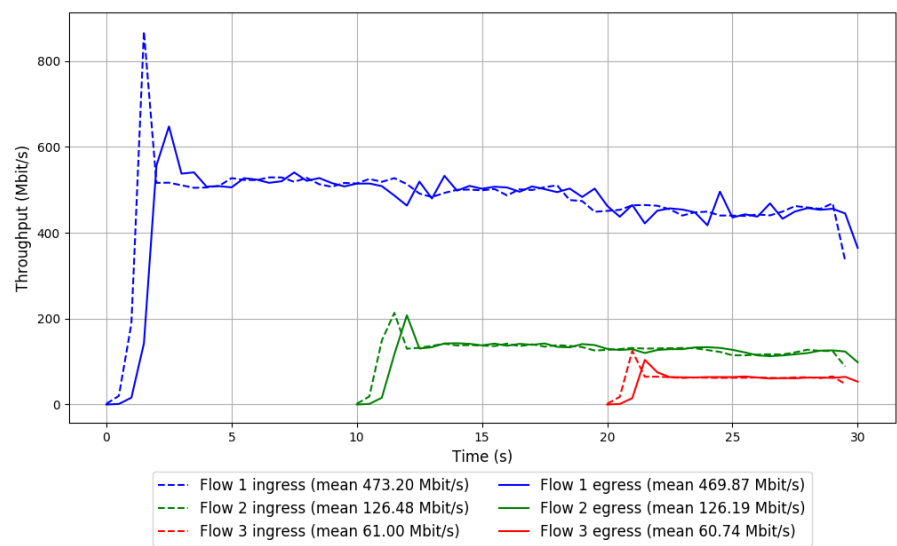
-- Flow 3:

Average throughput: 60.74 Mbit/s

95th percentile per-packet one-way delay: 120.628 ms

Loss rate: 0.50%

Run 10: Report of PCC-Allegro — Data Link

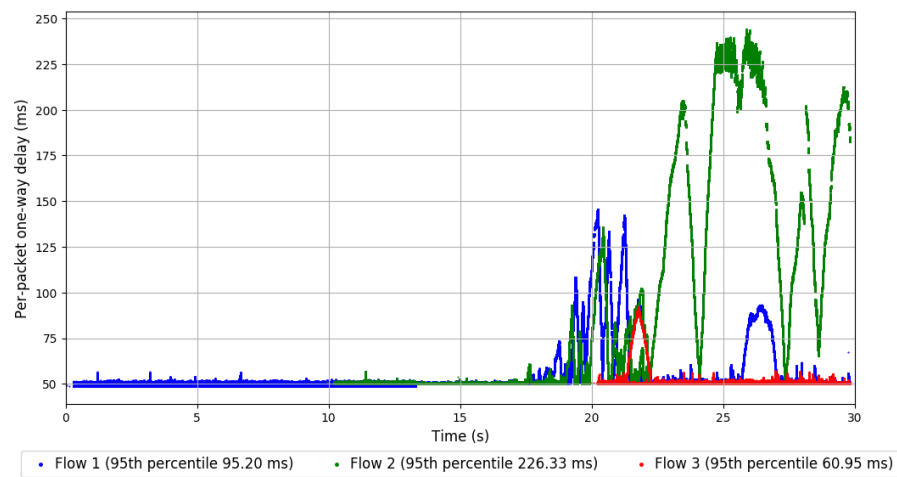
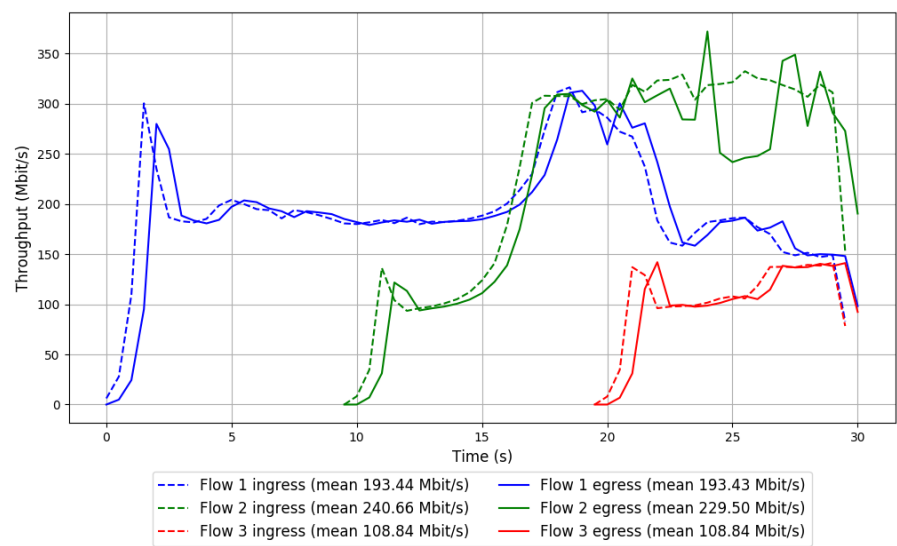


```
Run 1: Statistics of PCC-Expr

Start at: 2018-06-20 10:12:31
End at: 2018-06-20 10:13:01
Local clock offset: -0.03 ms
Remote clock offset: -0.017 ms

# Below is generated by plot.py at 2018-06-20 15:47:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 382.63 Mbit/s
95th percentile per-packet one-way delay: 203.636 ms
Loss rate: 1.91%
-- Flow 1:
Average throughput: 193.43 Mbit/s
95th percentile per-packet one-way delay: 95.203 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 229.50 Mbit/s
95th percentile per-packet one-way delay: 226.326 ms
Loss rate: 4.65%
-- Flow 3:
Average throughput: 108.84 Mbit/s
95th percentile per-packet one-way delay: 60.950 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2018-06-20 10:35:43

End at: 2018-06-20 10:36:13

Local clock offset: -0.022 ms

Remote clock offset: 0.105 ms

Below is generated by plot.py at 2018-06-20 15:48:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 390.14 Mbit/s

95th percentile per-packet one-way delay: 185.960 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 234.74 Mbit/s

95th percentile per-packet one-way delay: 193.819 ms

Loss rate: 1.45%

-- Flow 2:

Average throughput: 192.93 Mbit/s

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

Loss rate: 0.02%

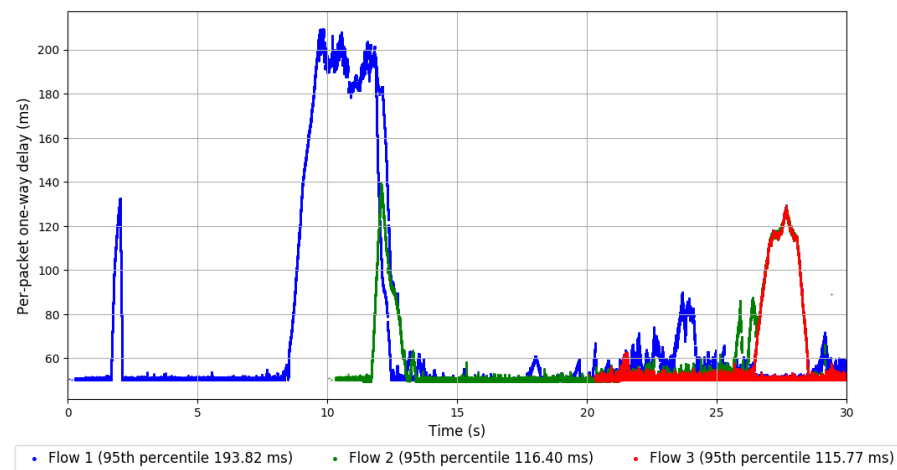
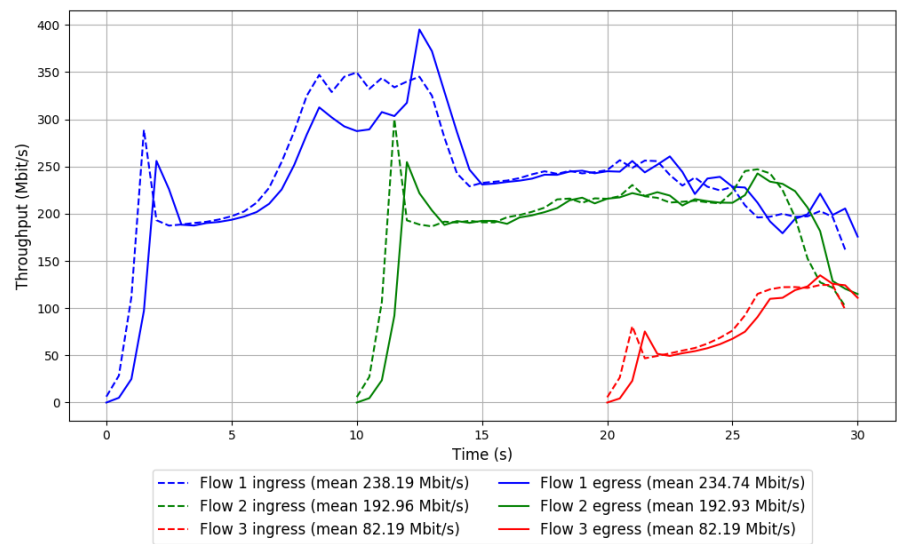
-- Flow 3:

Average throughput: 82.19 Mbit/s

95th percentile per-packet one-way delay: 115.769 ms

Loss rate: 0.04%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-06-20 10:58:54

End at: 2018-06-20 10:59:24

Local clock offset: 0.377 ms

Remote clock offset: 0.167 ms

Below is generated by plot.py at 2018-06-20 15:49:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 419.25 Mbit/s

95th percentile per-packet one-way delay: 185.310 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 206.31 Mbit/s

95th percentile per-packet one-way delay: 98.138 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 265.21 Mbit/s

95th percentile per-packet one-way delay: 211.303 ms

Loss rate: 1.47%

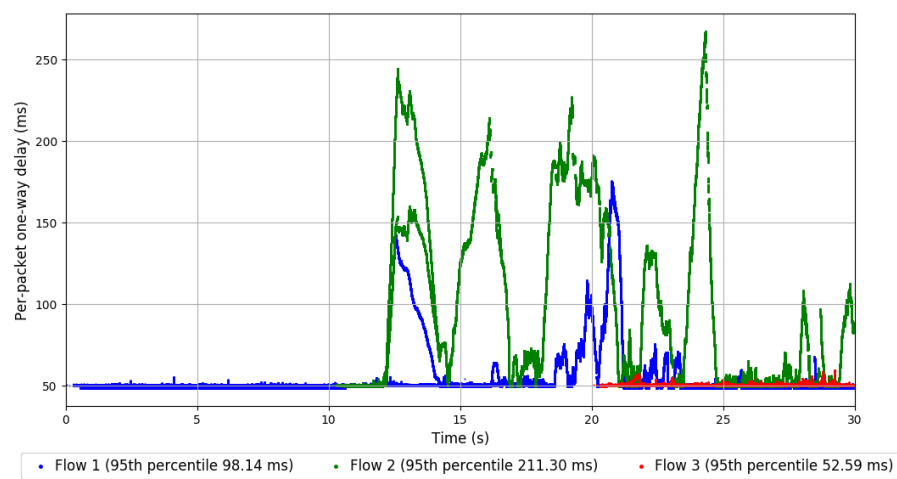
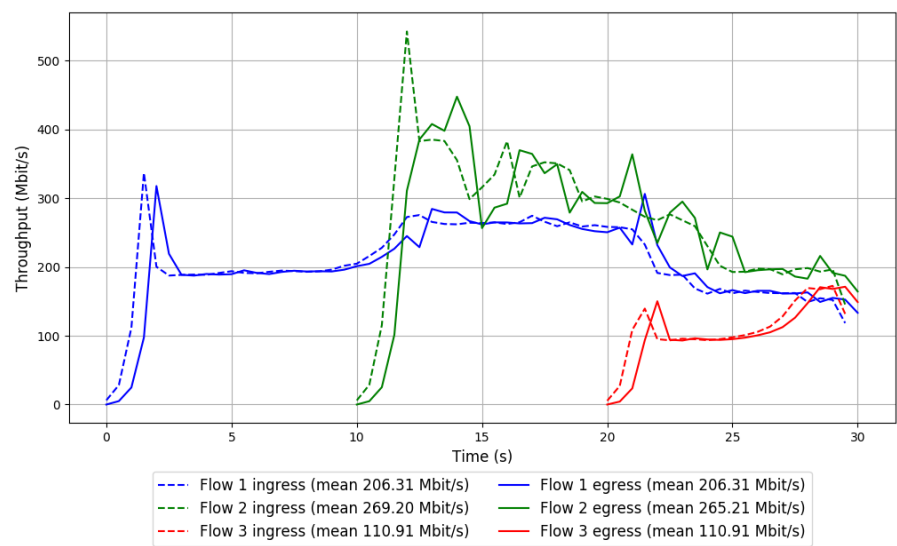
-- Flow 3:

Average throughput: 110.91 Mbit/s

95th percentile per-packet one-way delay: 52.585 ms

Loss rate: 0.00%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-06-20 11:22:16

End at: 2018-06-20 11:22:46

Local clock offset: 0.366 ms

Remote clock offset: 0.055 ms

Below is generated by plot.py at 2018-06-20 15:49:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 408.09 Mbit/s

95th percentile per-packet one-way delay: 205.484 ms

Loss rate: 1.93%

-- Flow 1:

Average throughput: 283.93 Mbit/s

95th percentile per-packet one-way delay: 218.538 ms

Loss rate: 2.66%

-- Flow 2:

Average throughput: 173.52 Mbit/s

95th percentile per-packet one-way delay: 166.877 ms

Loss rate: 0.24%

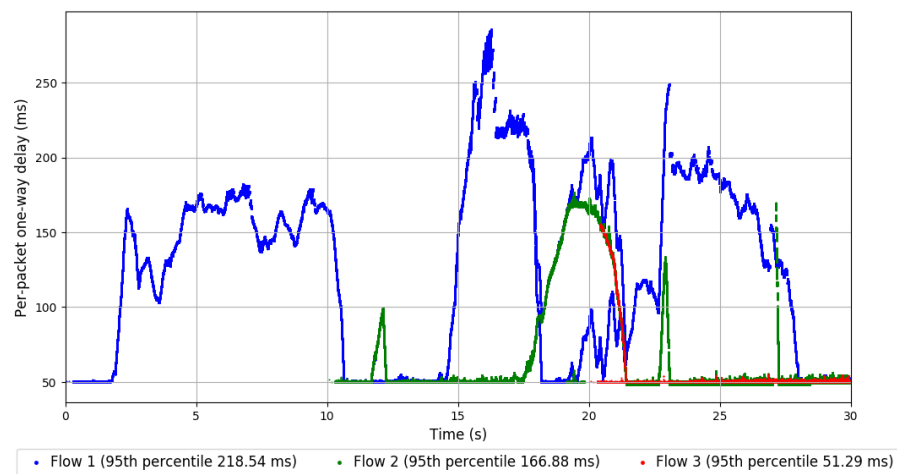
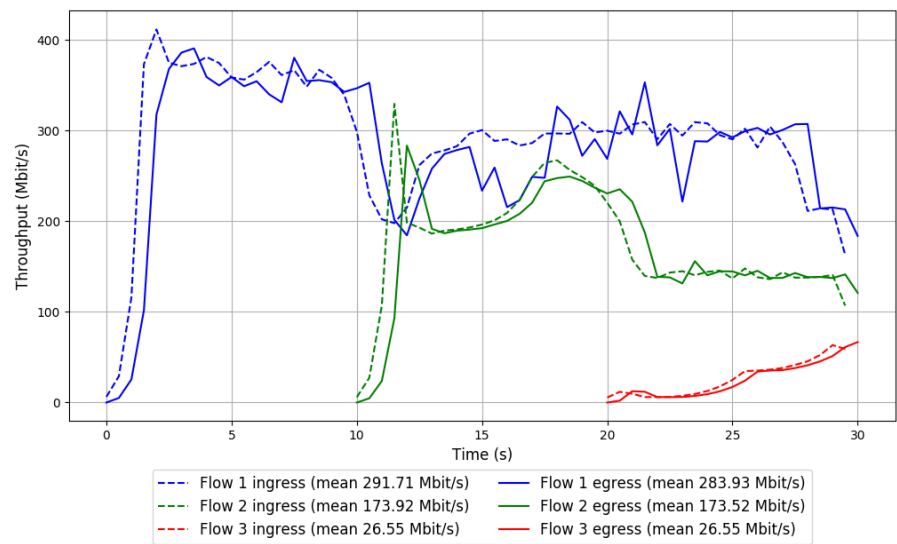
-- Flow 3:

Average throughput: 26.55 Mbit/s

95th percentile per-packet one-way delay: 51.294 ms

Loss rate: 0.00%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-06-20 11:45:26

End at: 2018-06-20 11:45:56

Local clock offset: -0.41 ms

Remote clock offset: 0.141 ms

Below is generated by plot.py at 2018-06-20 15:56:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 370.25 Mbit/s

95th percentile per-packet one-way delay: 61.042 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 175.57 Mbit/s

95th percentile per-packet one-way delay: 58.796 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 199.98 Mbit/s

95th percentile per-packet one-way delay: 62.388 ms

Loss rate: 0.00%

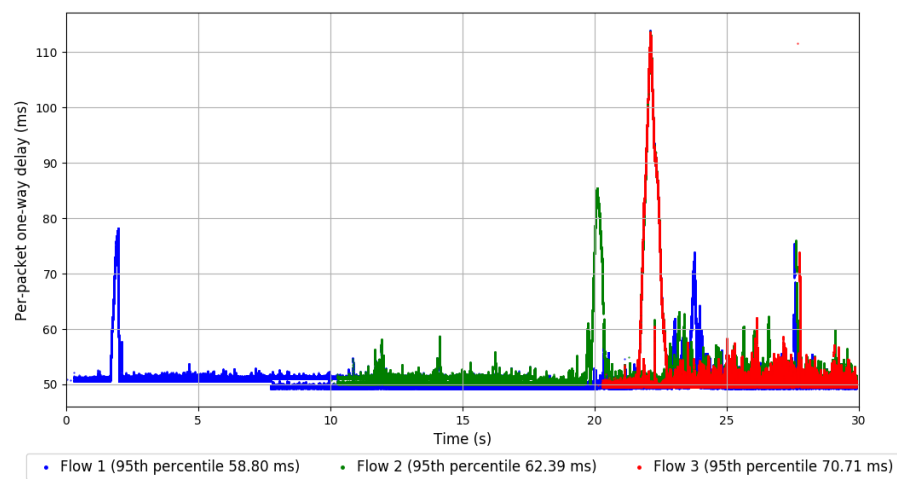
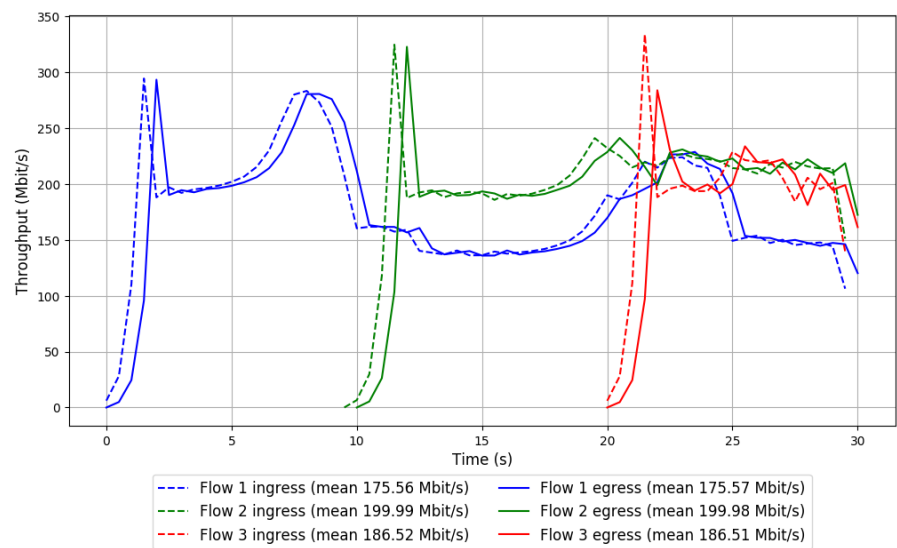
-- Flow 3:

Average throughput: 186.51 Mbit/s

95th percentile per-packet one-way delay: 70.708 ms

Loss rate: 0.00%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-06-20 12:08:30

End at: 2018-06-20 12:09:00

Local clock offset: -0.006 ms

Remote clock offset: 0.072 ms

Below is generated by plot.py at 2018-06-20 15:56:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 328.29 Mbit/s

95th percentile per-packet one-way delay: 68.390 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 225.30 Mbit/s

95th percentile per-packet one-way delay: 76.640 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 96.81 Mbit/s

95th percentile per-packet one-way delay: 51.581 ms

Loss rate: 0.00%

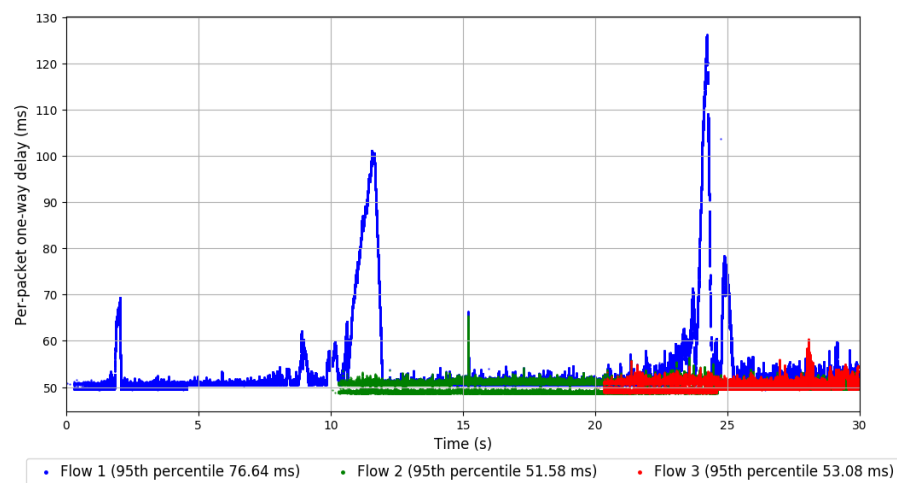
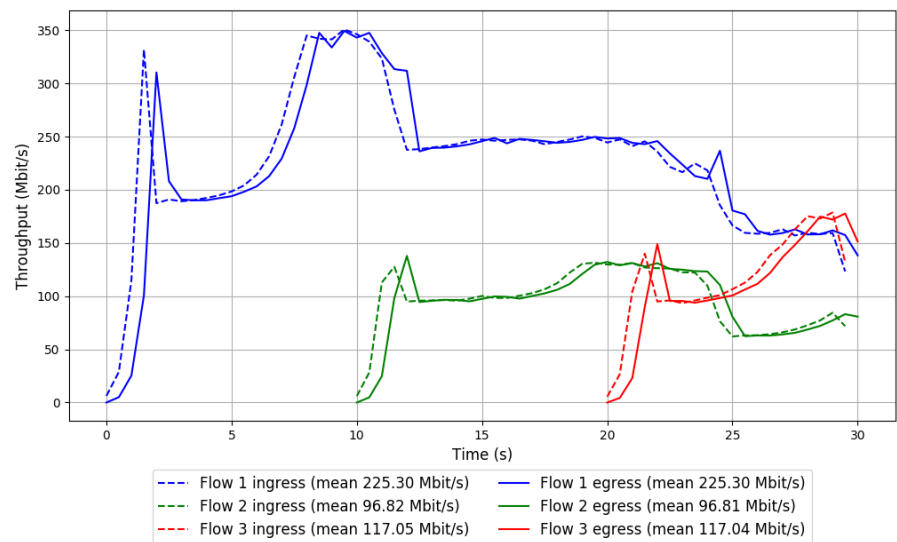
-- Flow 3:

Average throughput: 117.04 Mbit/s

95th percentile per-packet one-way delay: 53.079 ms

Loss rate: 0.01%

Run 6: Report of PCC-Expr — Data Link

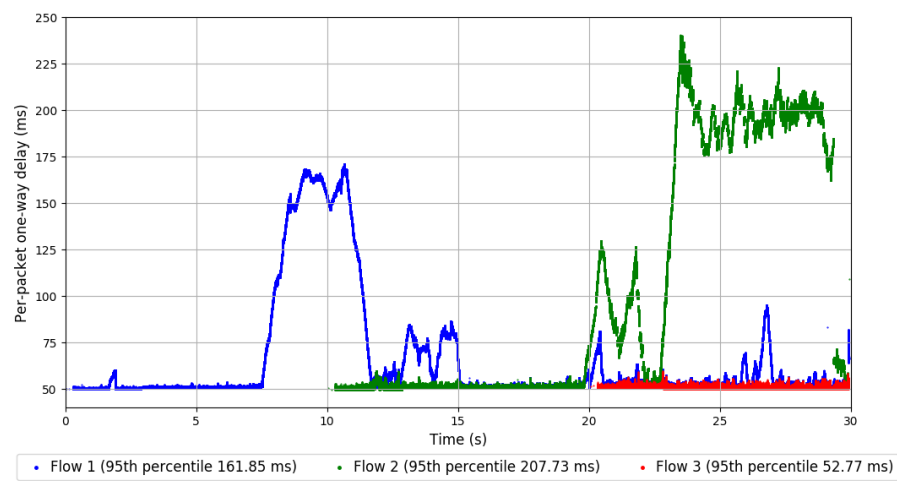
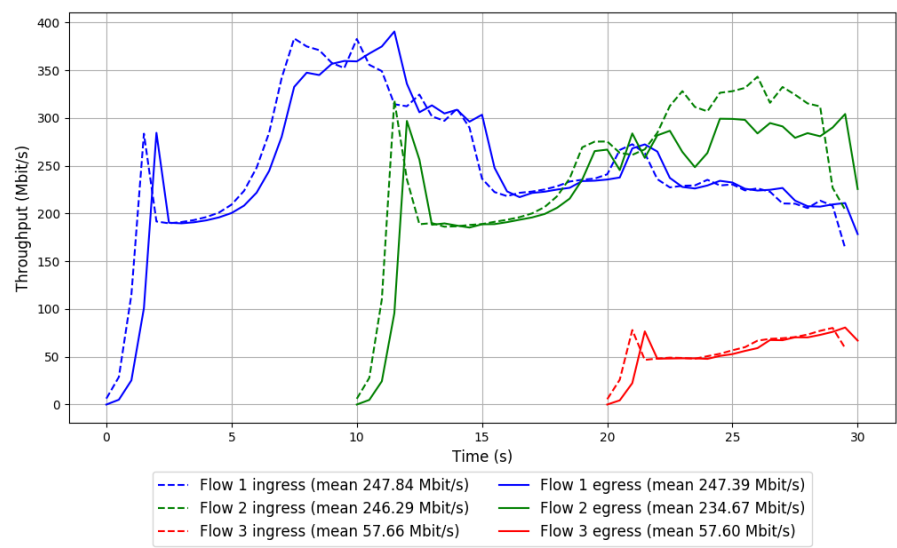


Run 7: Statistics of PCC-Expr

Start at: 2018-06-20 12:31:31
End at: 2018-06-20 12:32:01
Local clock offset: 0.059 ms
Remote clock offset: -0.051 ms

Below is generated by plot.py at 2018-06-20 15:59:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 422.28 Mbit/s
95th percentile per-packet one-way delay: 200.108 ms
Loss rate: 1.85%
-- Flow 1:
Average throughput: 247.39 Mbit/s
95th percentile per-packet one-way delay: 161.850 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 234.67 Mbit/s
95th percentile per-packet one-way delay: 207.728 ms
Loss rate: 4.58%
-- Flow 3:
Average throughput: 57.60 Mbit/s
95th percentile per-packet one-way delay: 52.769 ms
Loss rate: 0.11%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-06-20 12:54:37

End at: 2018-06-20 12:55:07

Local clock offset: 0.118 ms

Remote clock offset: 0.003 ms

Below is generated by plot.py at 2018-06-20 15:59:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 355.40 Mbit/s

95th percentile per-packet one-way delay: 122.400 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 170.43 Mbit/s

95th percentile per-packet one-way delay: 109.256 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 226.07 Mbit/s

95th percentile per-packet one-way delay: 136.432 ms

Loss rate: 0.03%

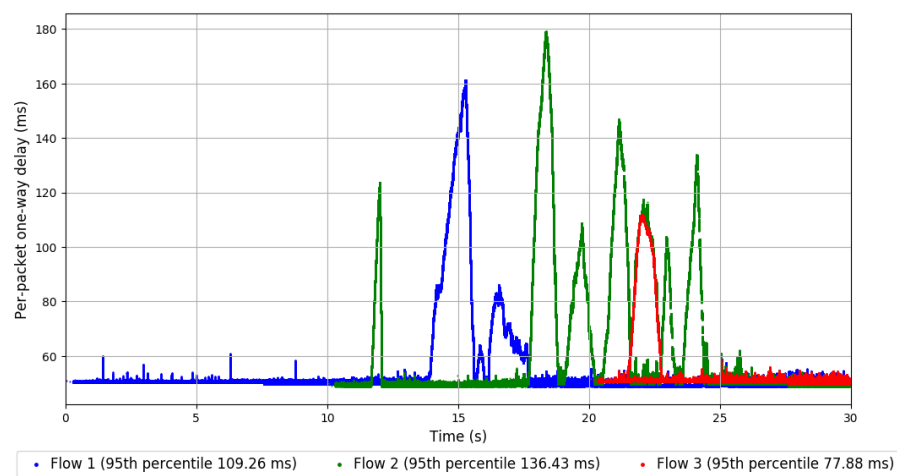
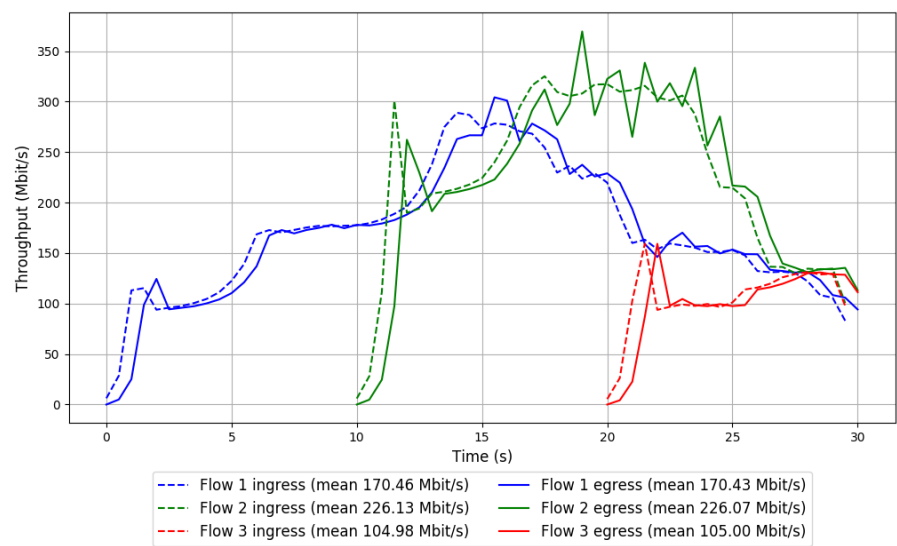
-- Flow 3:

Average throughput: 105.00 Mbit/s

95th percentile per-packet one-way delay: 77.884 ms

Loss rate: 0.02%

Run 8: Report of PCC-Expr — Data Link

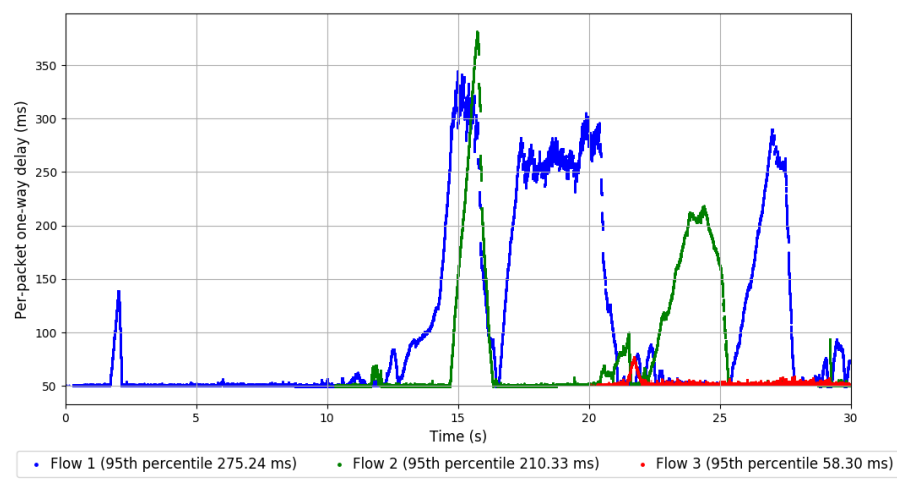
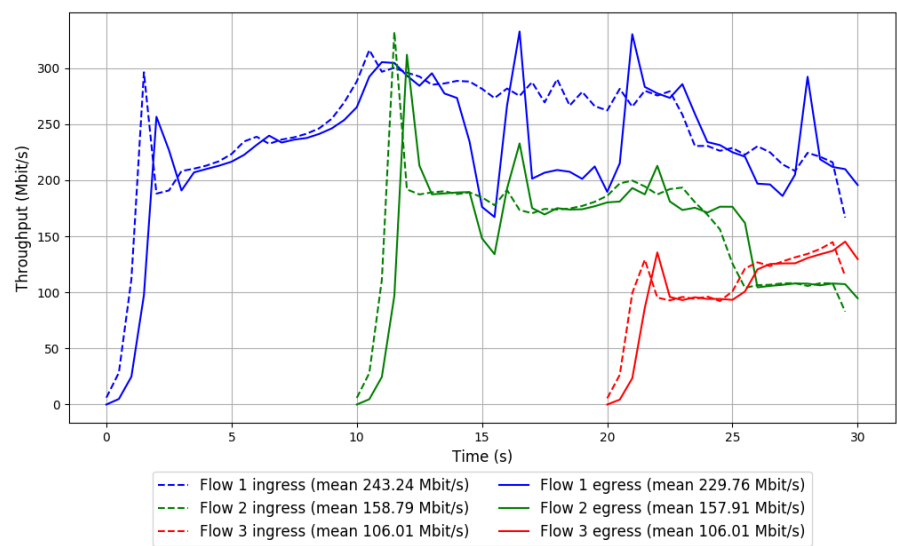


Run 9: Statistics of PCC-Expr

Start at: 2018-06-20 13:17:25
End at: 2018-06-20 13:17:55
Local clock offset: -0.263 ms
Remote clock offset: -0.071 ms

Below is generated by plot.py at 2018-06-20 16:00:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 369.74 Mbit/s
95th percentile per-packet one-way delay: 266.655 ms
Loss rate: 3.66%
-- Flow 1:
Average throughput: 229.76 Mbit/s
95th percentile per-packet one-way delay: 275.240 ms
Loss rate: 5.54%
-- Flow 2:
Average throughput: 157.91 Mbit/s
95th percentile per-packet one-way delay: 210.327 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 106.01 Mbit/s
95th percentile per-packet one-way delay: 58.305 ms
Loss rate: 0.00%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-06-20 13:40:25

End at: 2018-06-20 13:40:55

Local clock offset: -0.38 ms

Remote clock offset: 0.003 ms

Below is generated by plot.py at 2018-06-20 16:02:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 404.10 Mbit/s

95th percentile per-packet one-way delay: 114.776 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 236.78 Mbit/s

95th percentile per-packet one-way delay: 141.042 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 204.23 Mbit/s

95th percentile per-packet one-way delay: 59.086 ms

Loss rate: 0.00%

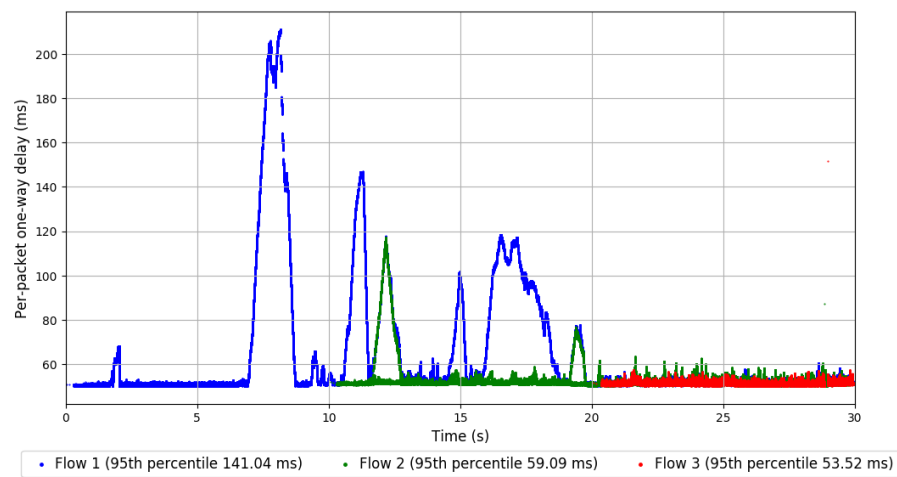
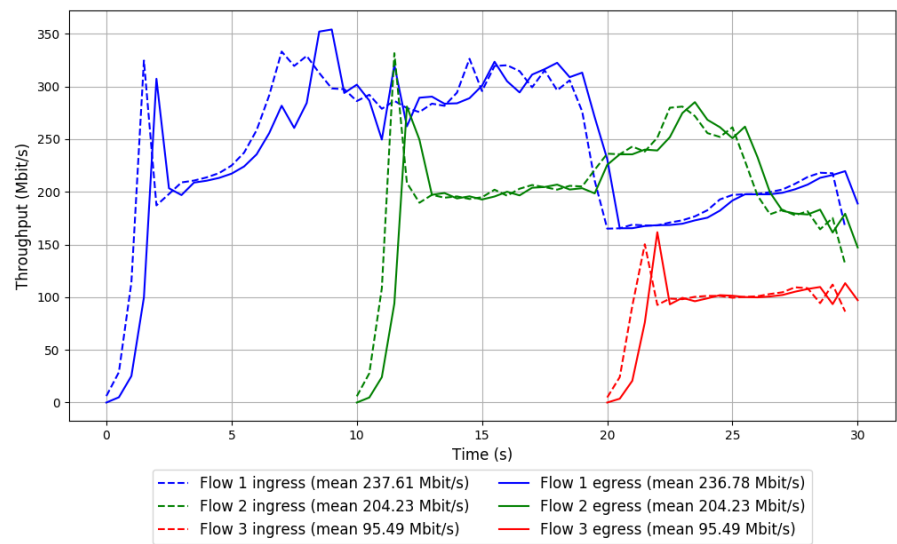
-- Flow 3:

Average throughput: 95.49 Mbit/s

95th percentile per-packet one-way delay: 53.517 ms

Loss rate: 0.00%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-06-20 10:11:21

End at: 2018-06-20 10:11:51

Local clock offset: 0.004 ms

Remote clock offset: 0.023 ms

Below is generated by plot.py at 2018-06-20 16:02:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 21.81 Mbit/s

95th percentile per-packet one-way delay: 50.712 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 50.929 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 23.65 Mbit/s

95th percentile per-packet one-way delay: 50.421 ms

Loss rate: 0.00%

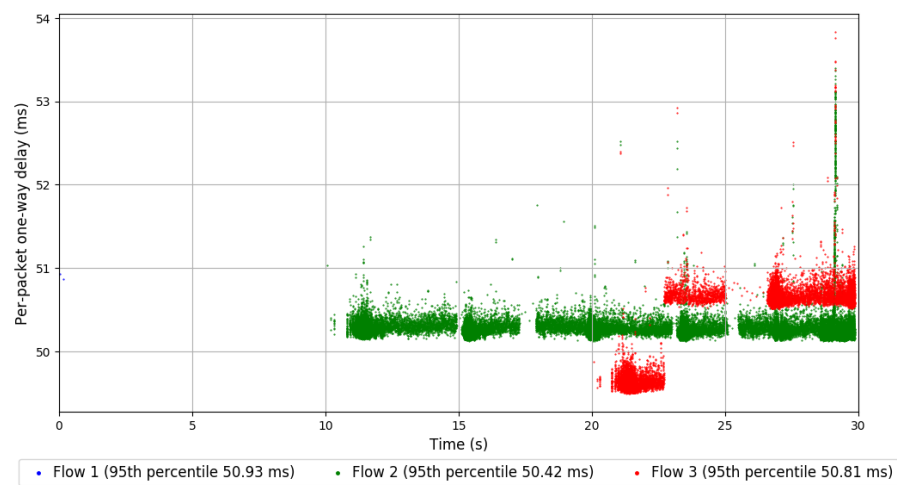
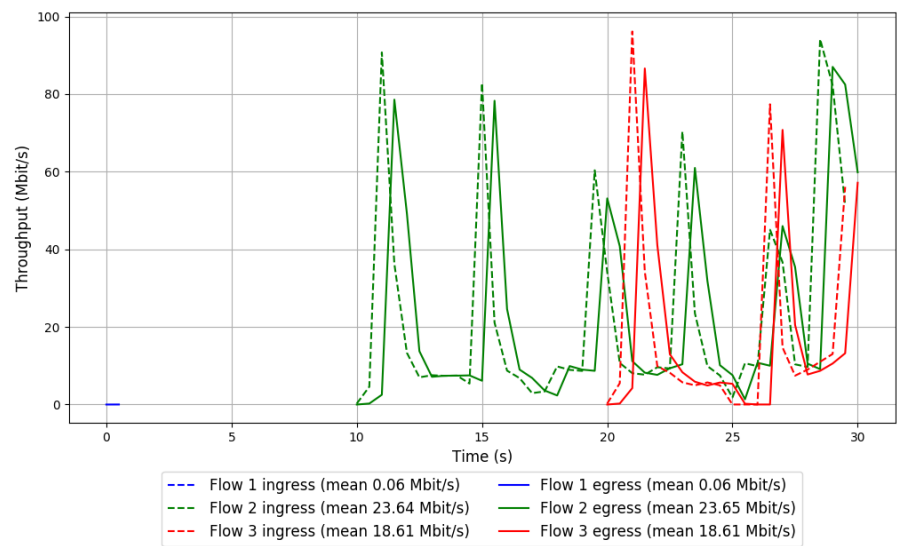
-- Flow 3:

Average throughput: 18.61 Mbit/s

95th percentile per-packet one-way delay: 50.814 ms

Loss rate: 0.01%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-06-20 10:34:30

End at: 2018-06-20 10:35:00

Local clock offset: 0.37 ms

Remote clock offset: 0.106 ms

Below is generated by plot.py at 2018-06-20 16:02:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.17 Mbit/s

95th percentile per-packet one-way delay: 50.669 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 42.70 Mbit/s

95th percentile per-packet one-way delay: 50.592 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 36.14 Mbit/s

95th percentile per-packet one-way delay: 50.828 ms

Loss rate: 0.00%

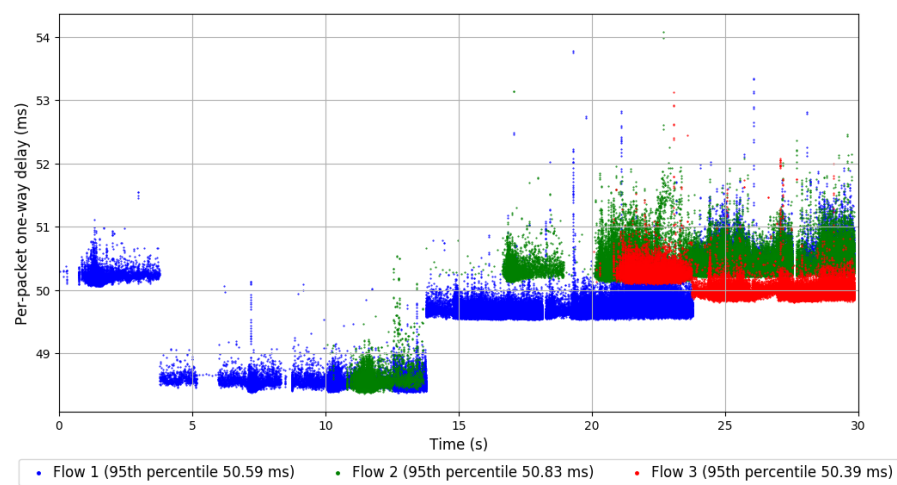
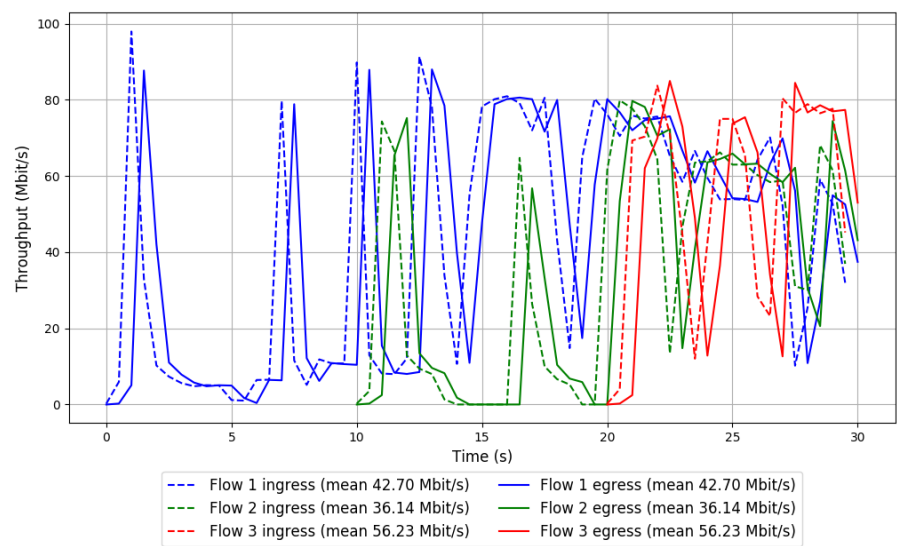
-- Flow 3:

Average throughput: 56.23 Mbit/s

95th percentile per-packet one-way delay: 50.386 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-06-20 10:57:42

End at: 2018-06-20 10:58:12

Local clock offset: -0.026 ms

Remote clock offset: 0.169 ms

Below is generated by plot.py at 2018-06-20 16:02:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 65.81 Mbit/s

95th percentile per-packet one-way delay: 50.885 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 46.94 Mbit/s

95th percentile per-packet one-way delay: 50.910 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 21.46 Mbit/s

95th percentile per-packet one-way delay: 50.176 ms

Loss rate: 0.00%

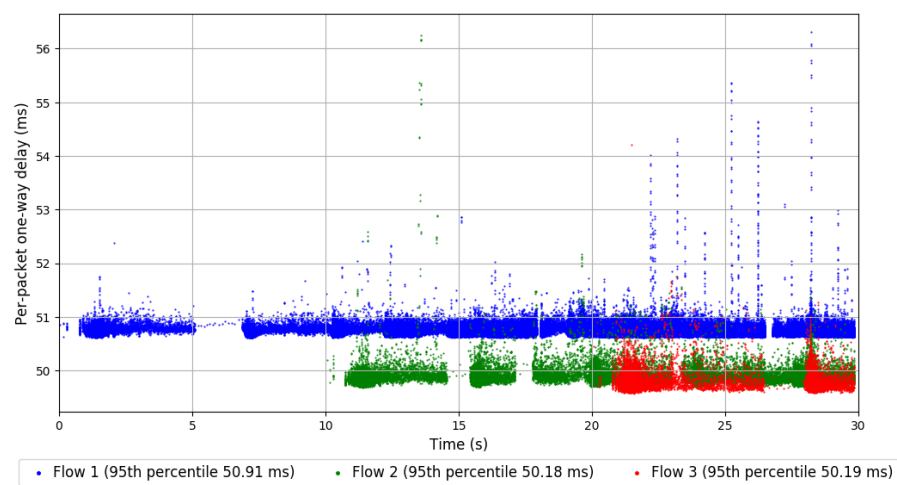
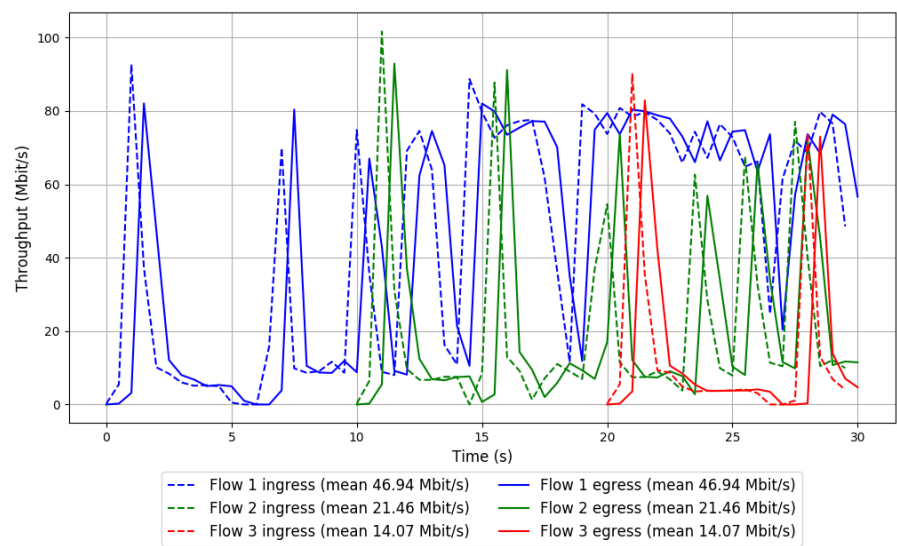
-- Flow 3:

Average throughput: 14.07 Mbit/s

95th percentile per-packet one-way delay: 50.191 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-06-20 11:21:04

End at: 2018-06-20 11:21:34

Local clock offset: -0.009 ms

Remote clock offset: 0.083 ms

Below is generated by plot.py at 2018-06-20 16:02:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.56 Mbit/s

95th percentile per-packet one-way delay: 50.598 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 46.40 Mbit/s

95th percentile per-packet one-way delay: 50.615 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 21.59 Mbit/s

95th percentile per-packet one-way delay: 50.530 ms

Loss rate: 0.00%

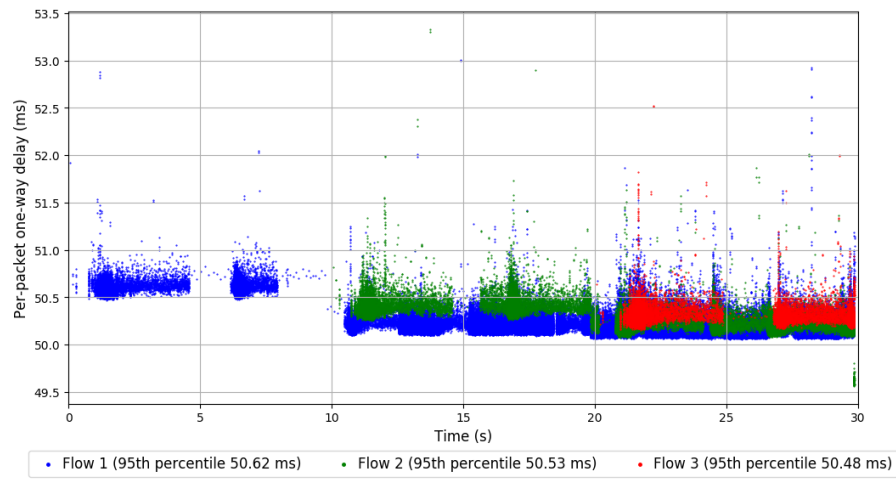
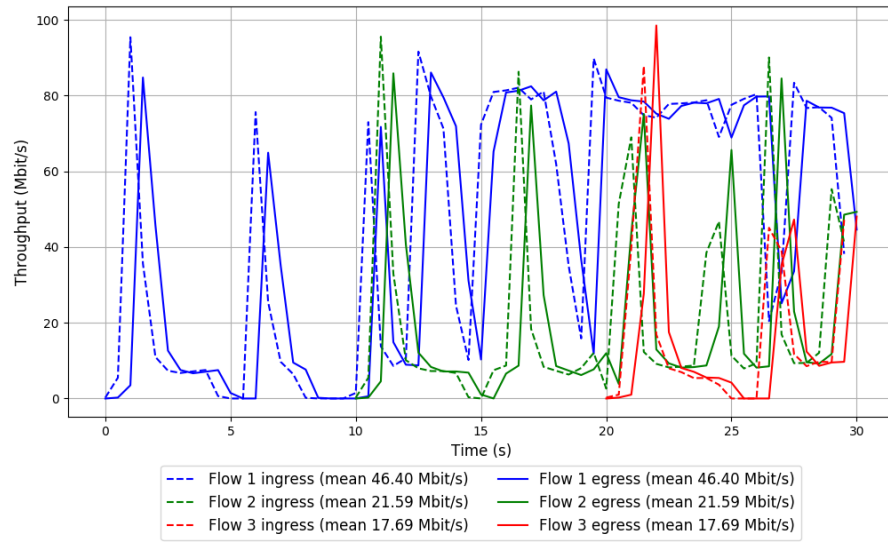
-- Flow 3:

Average throughput: 17.69 Mbit/s

95th percentile per-packet one-way delay: 50.477 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-06-20 11:44:17

End at: 2018-06-20 11:44:47

Local clock offset: -0.015 ms

Remote clock offset: 0.06 ms

Below is generated by plot.py at 2018-06-20 16:02:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.71 Mbit/s

95th percentile per-packet one-way delay: 50.708 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 50.302 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 21.23 Mbit/s

95th percentile per-packet one-way delay: 50.337 ms

Loss rate: 0.01%

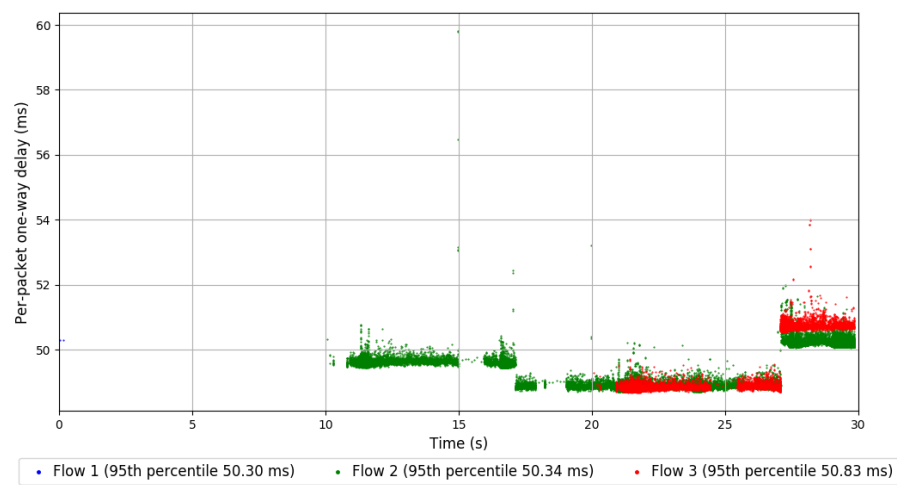
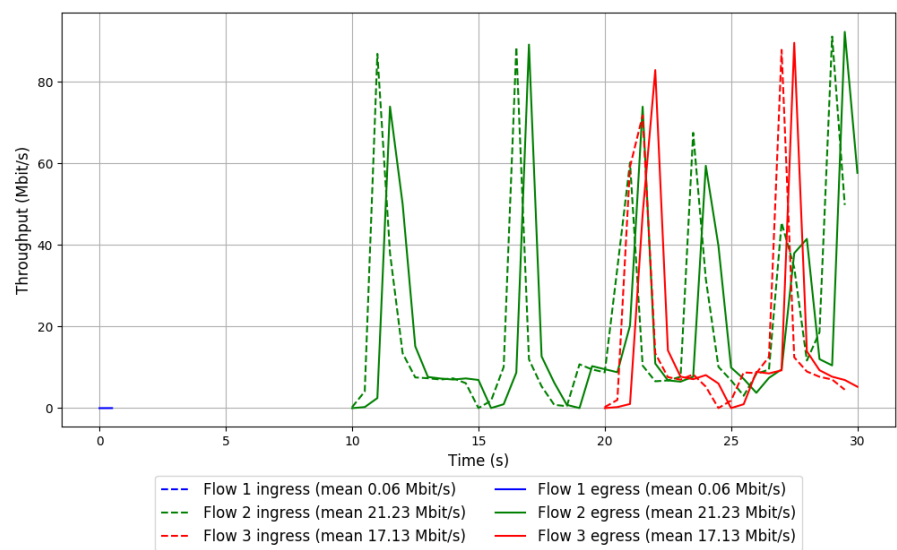
-- Flow 3:

Average throughput: 17.13 Mbit/s

95th percentile per-packet one-way delay: 50.834 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-06-20 12:07:18

End at: 2018-06-20 12:07:48

Local clock offset: -0.444 ms

Remote clock offset: 0.054 ms

Below is generated by plot.py at 2018-06-20 16:02:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 62.32 Mbit/s

95th percentile per-packet one-way delay: 51.172 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 44.53 Mbit/s

95th percentile per-packet one-way delay: 50.753 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 19.23 Mbit/s

95th percentile per-packet one-way delay: 51.311 ms

Loss rate: 0.00%

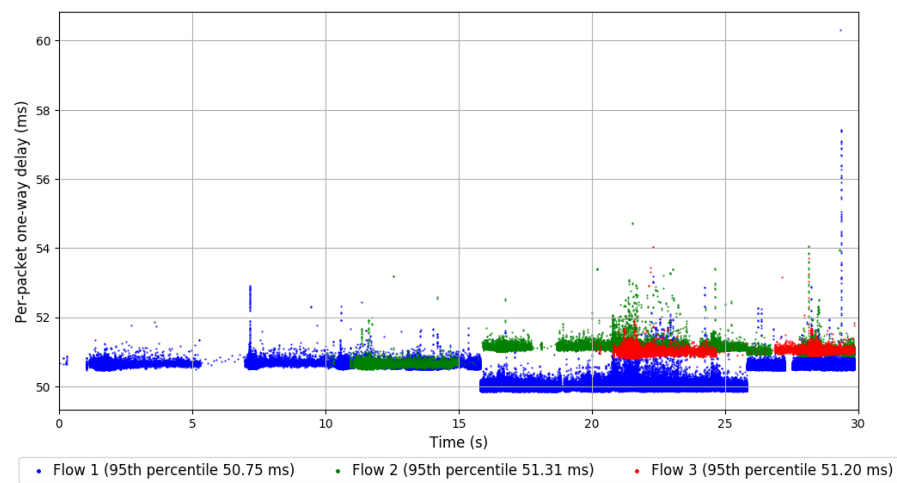
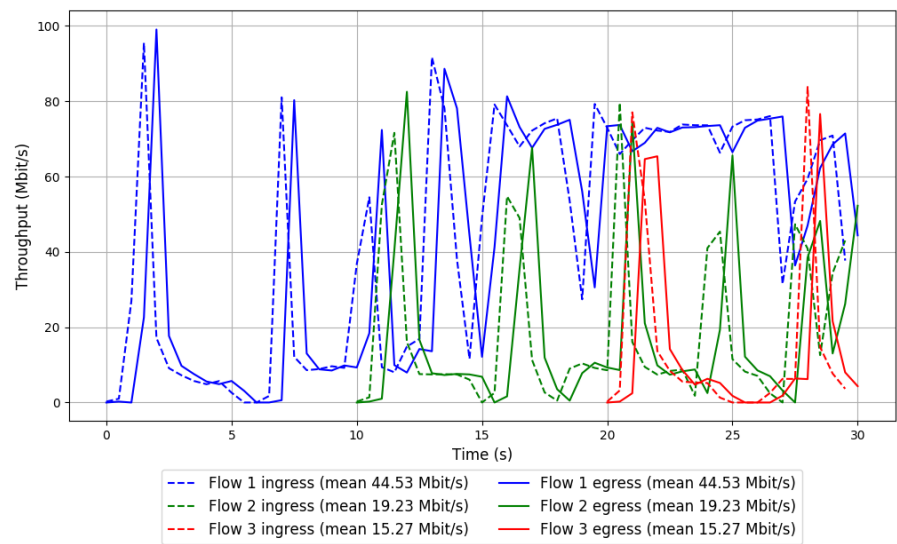
-- Flow 3:

Average throughput: 15.27 Mbit/s

95th percentile per-packet one-way delay: 51.198 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link

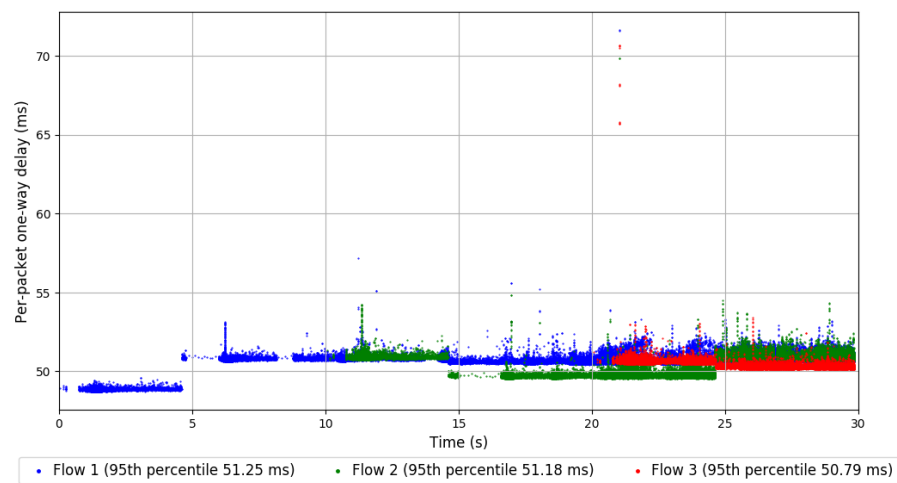
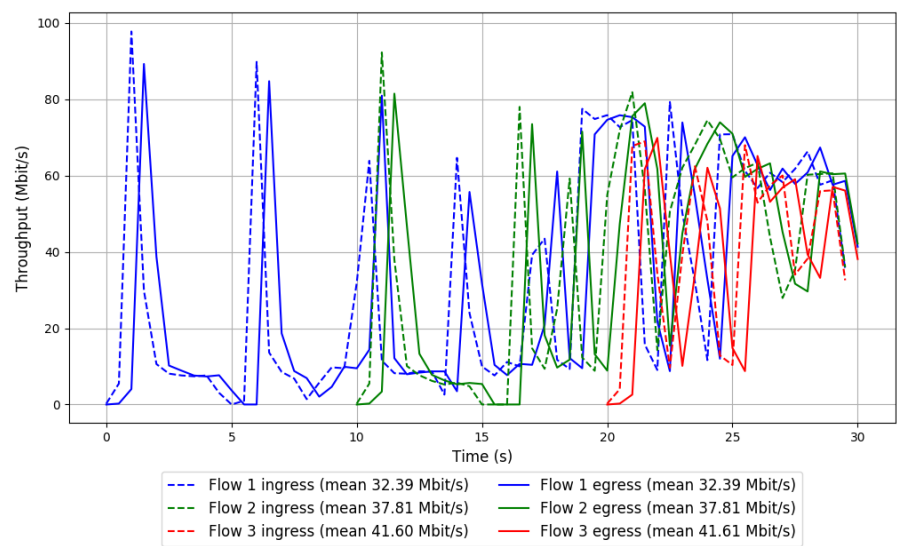


Run 7: Statistics of QUIC Cubic

Start at: 2018-06-20 12:30:19
End at: 2018-06-20 12:30:49
Local clock offset: 0.065 ms
Remote clock offset: -0.093 ms

Below is generated by plot.py at 2018-06-20 16:02:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 71.15 Mbit/s
95th percentile per-packet one-way delay: 51.176 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 32.39 Mbit/s
95th percentile per-packet one-way delay: 51.247 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 37.81 Mbit/s
95th percentile per-packet one-way delay: 51.178 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 41.61 Mbit/s
95th percentile per-packet one-way delay: 50.791 ms
Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-06-20 12:53:24

End at: 2018-06-20 12:53:54

Local clock offset: 0.456 ms

Remote clock offset: -0.09 ms

Below is generated by plot.py at 2018-06-20 16:02:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.11 Mbit/s

95th percentile per-packet one-way delay: 50.558 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 38.14 Mbit/s

95th percentile per-packet one-way delay: 50.403 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 55.10 Mbit/s

95th percentile per-packet one-way delay: 50.674 ms

Loss rate: 0.00%

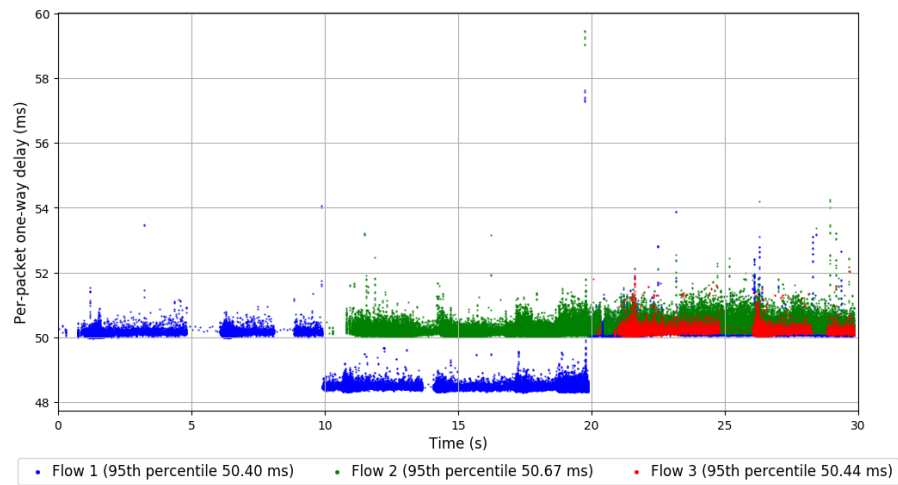
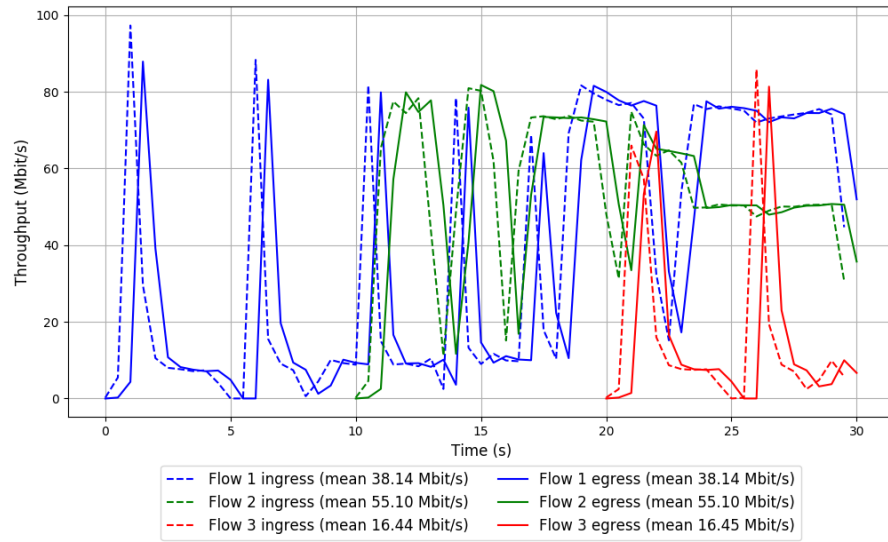
-- Flow 3:

Average throughput: 16.45 Mbit/s

95th percentile per-packet one-way delay: 50.443 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link

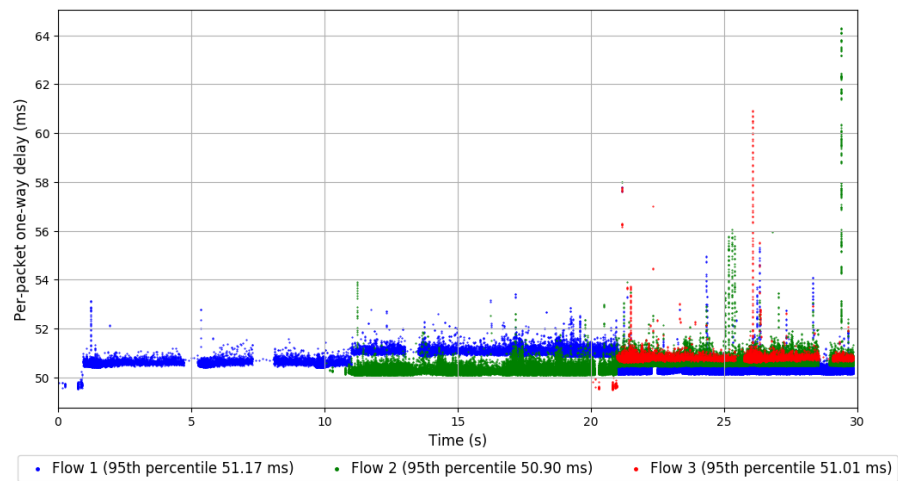
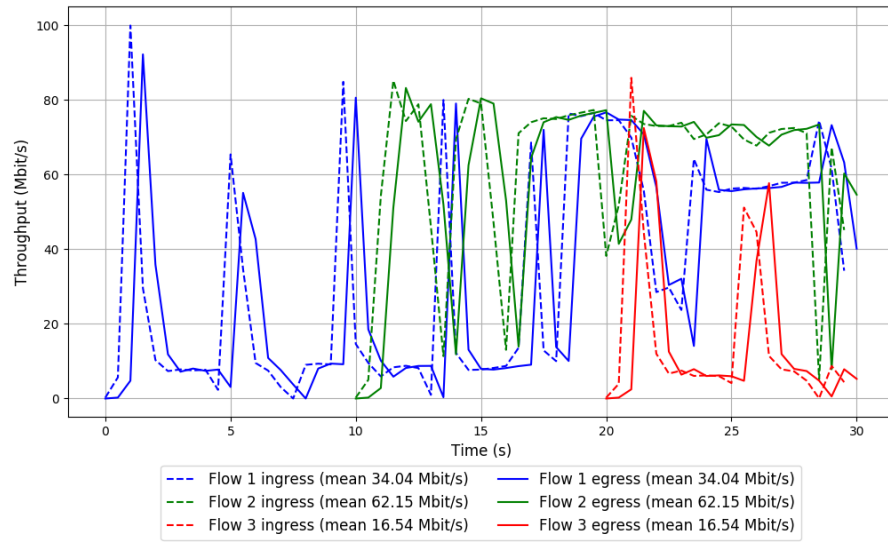


Run 9: Statistics of QUIC Cubic

Start at: 2018-06-20 13:16:13
End at: 2018-06-20 13:16:43
Local clock offset: 0.104 ms
Remote clock offset: -0.014 ms

Below is generated by plot.py at 2018-06-20 16:02:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.70 Mbit/s
95th percentile per-packet one-way delay: 51.092 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 34.04 Mbit/s
95th percentile per-packet one-way delay: 51.167 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 62.15 Mbit/s
95th percentile per-packet one-way delay: 50.902 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 16.54 Mbit/s
95th percentile per-packet one-way delay: 51.007 ms
Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link

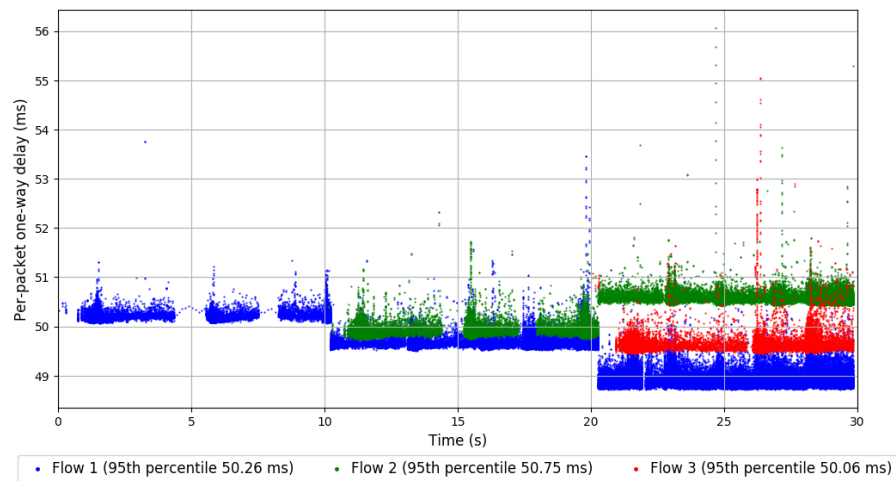
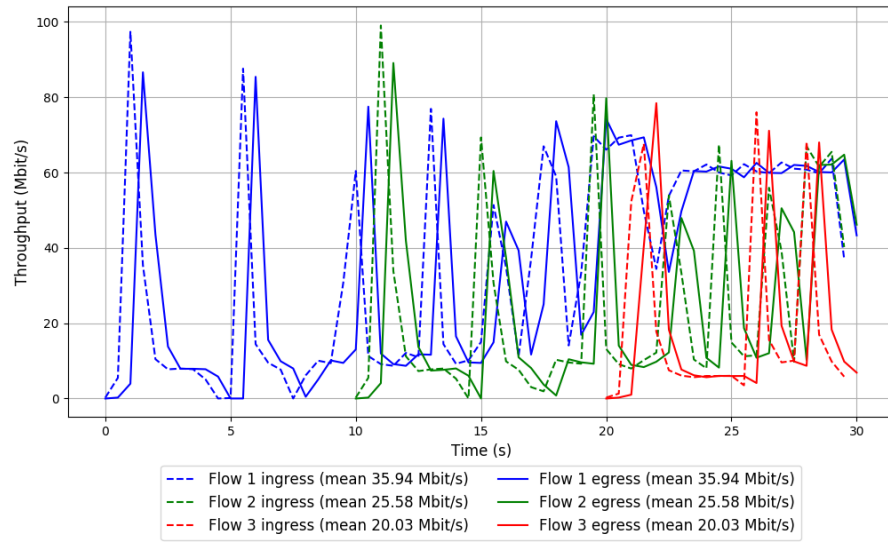


Run 10: Statistics of QUIC Cubic

Start at: 2018-06-20 13:39:14
End at: 2018-06-20 13:39:44
Local clock offset: 0.05 ms
Remote clock offset: -0.033 ms

Below is generated by plot.py at 2018-06-20 16:02:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 59.49 Mbit/s
95th percentile per-packet one-way delay: 50.638 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 35.94 Mbit/s
95th percentile per-packet one-way delay: 50.259 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 25.58 Mbit/s
95th percentile per-packet one-way delay: 50.753 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 20.03 Mbit/s
95th percentile per-packet one-way delay: 50.065 ms
Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

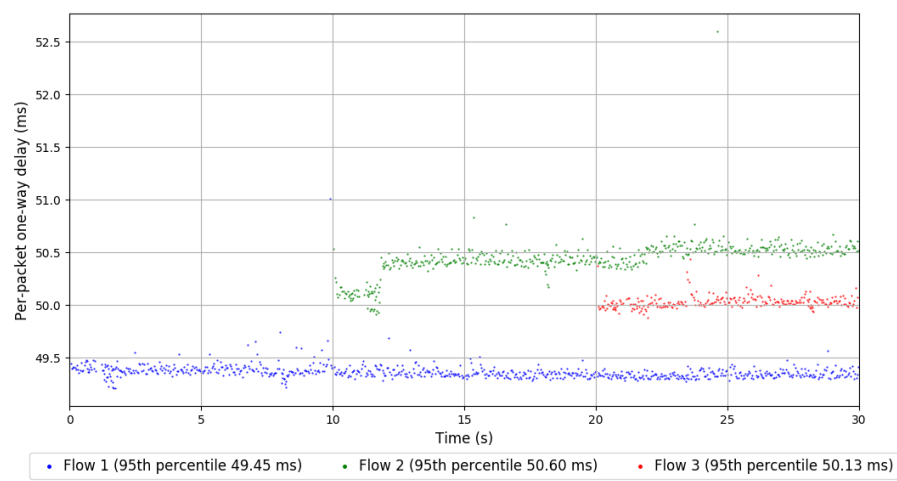
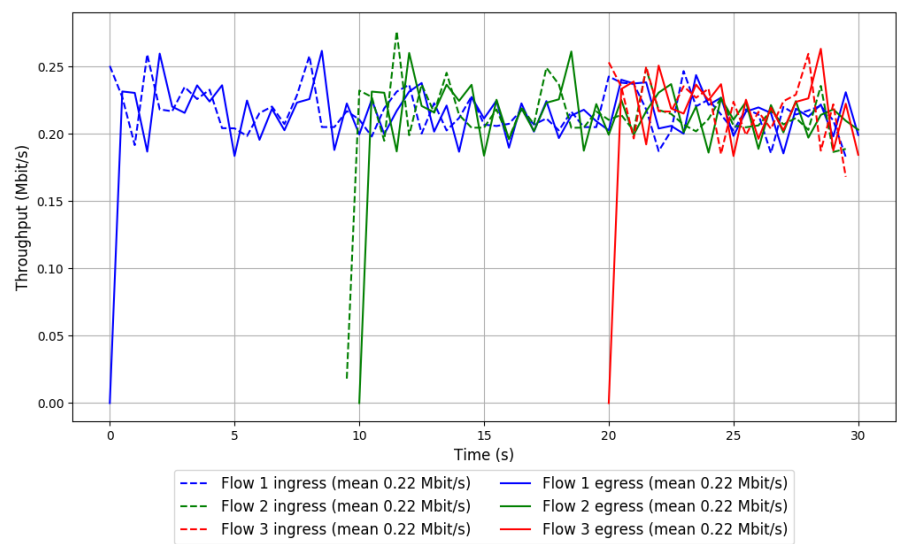


```
Run 1: Statistics of SCReAM

Start at: 2018-06-20 10:21:12
End at: 2018-06-20 10:21:42
Local clock offset: 0.315 ms
Remote clock offset: 0.03 ms

# Below is generated by plot.py at 2018-06-20 16:02:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.553 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.454 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.605 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.126 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

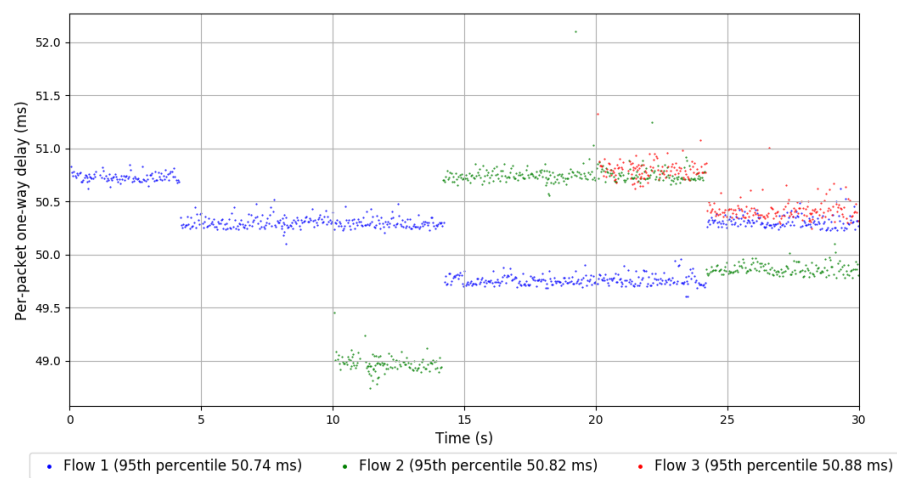
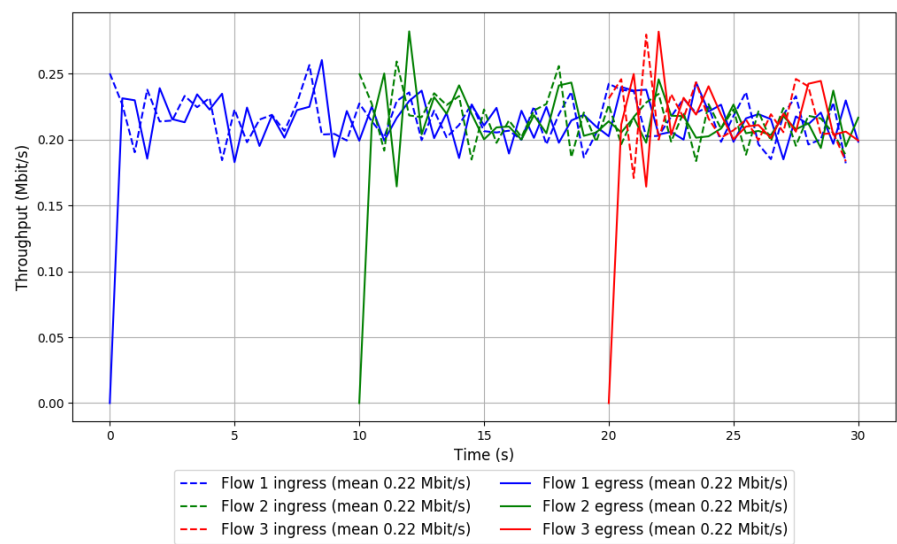


```
Run 2: Statistics of SReAM

Start at: 2018-06-20 10:44:20
End at: 2018-06-20 10:44:50
Local clock offset: -0.017 ms
Remote clock offset: 0.067 ms

# Below is generated by plot.py at 2018-06-20 16:02:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.816 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.737 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.816 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.880 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link

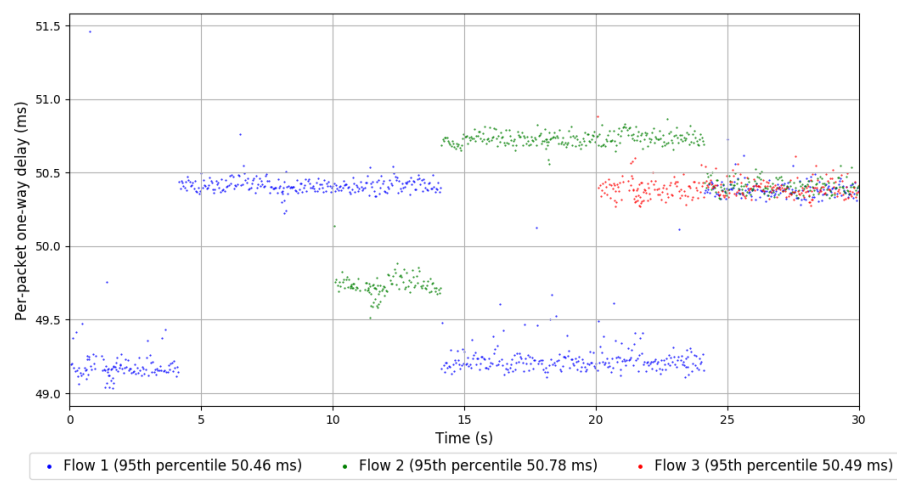
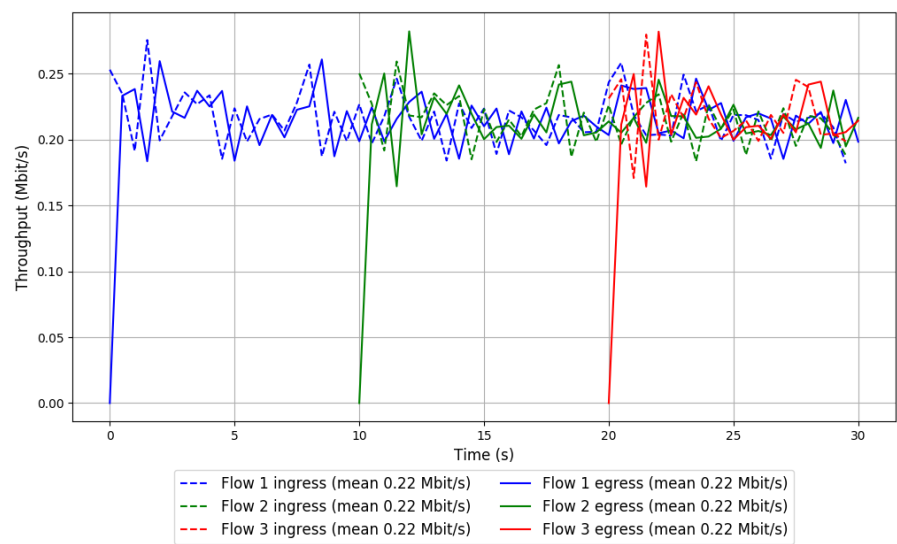


Run 3: Statistics of SCReAM

Start at: 2018-06-20 11:07:40
End at: 2018-06-20 11:08:10
Local clock offset: -0.022 ms
Remote clock offset: 0.103 ms

Below is generated by plot.py at 2018-06-20 16:02:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.750 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.460 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.785 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.495 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

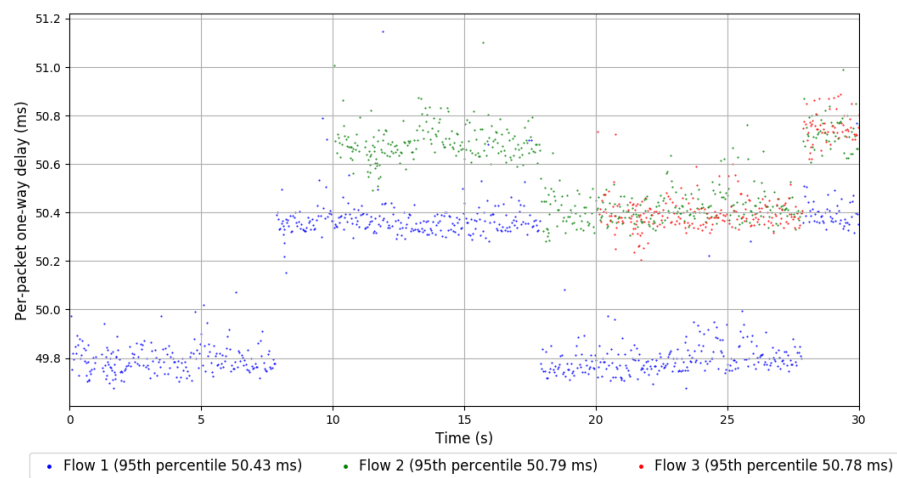
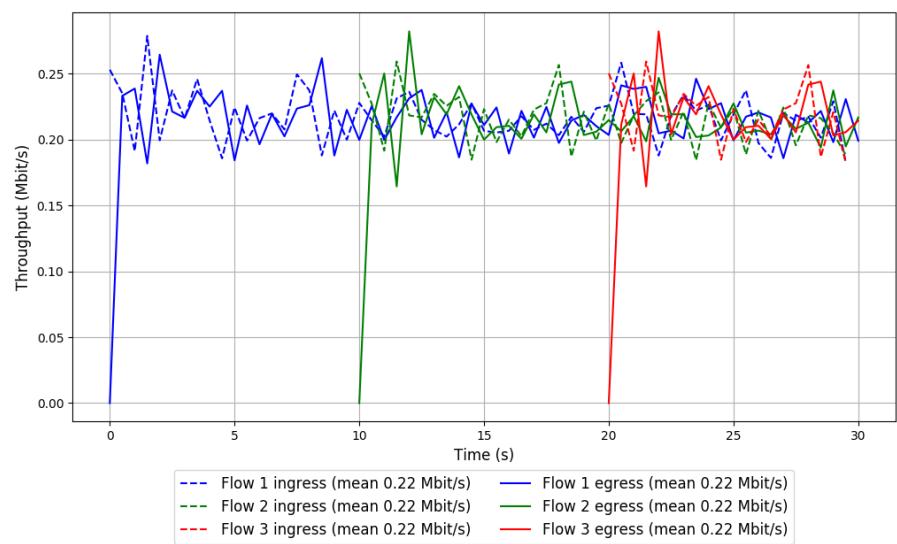


Run 4: Statistics of SReAM

Start at: 2018-06-20 11:30:56
End at: 2018-06-20 11:31:26
Local clock offset: -0.031 ms
Remote clock offset: 0.067 ms

Below is generated by plot.py at 2018-06-20 16:02:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.756 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.429 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.790 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.784 ms
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-06-20 11:53:55

End at: 2018-06-20 11:54:25

Local clock offset: -0.056 ms

Remote clock offset: 0.052 ms

Below is generated by plot.py at 2018-06-20 16:02:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 50.803 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.851 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.588 ms

Loss rate: 0.00%

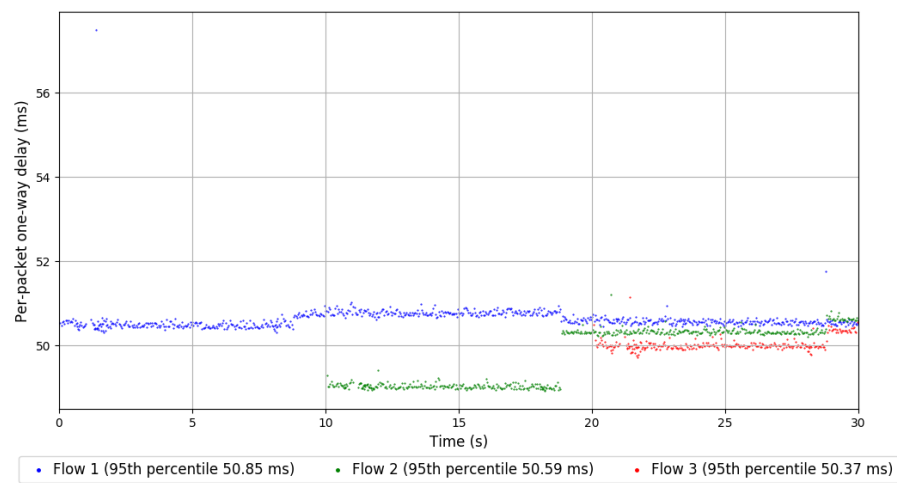
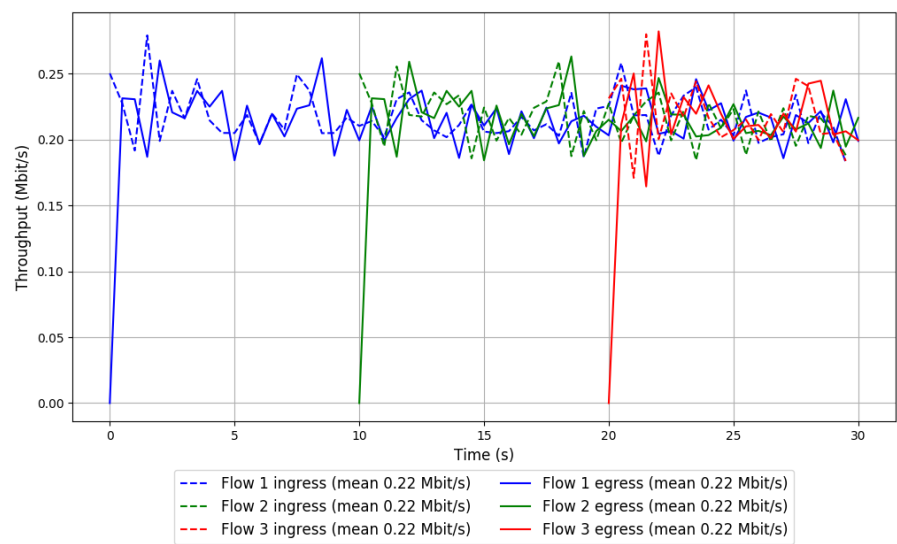
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.366 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-06-20 12:17:09

End at: 2018-06-20 12:17:39

Local clock offset: 0.038 ms

Remote clock offset: 0.007 ms

Below is generated by plot.py at 2018-06-20 16:02:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 50.818 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.708 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.889 ms

Loss rate: 0.00%

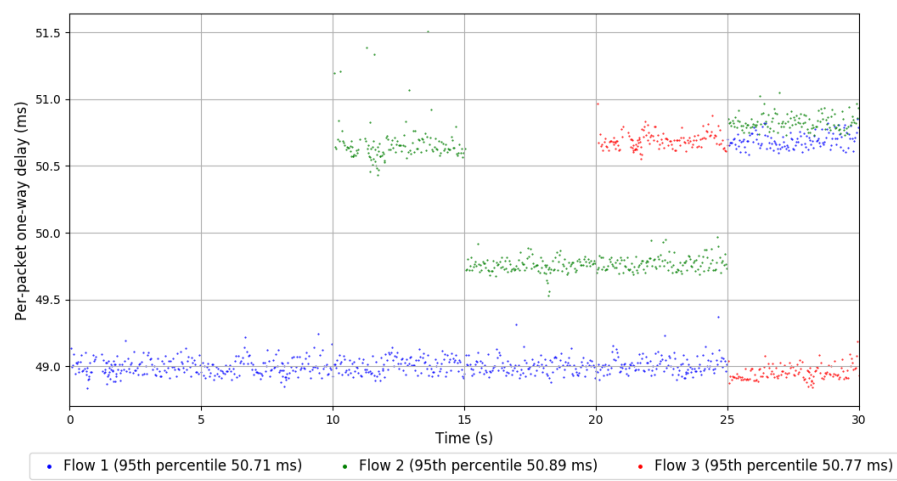
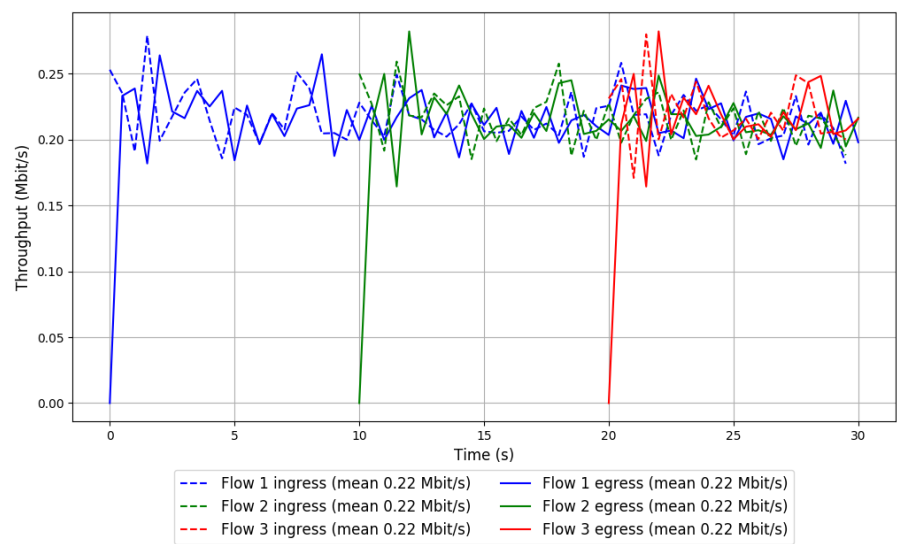
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.775 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

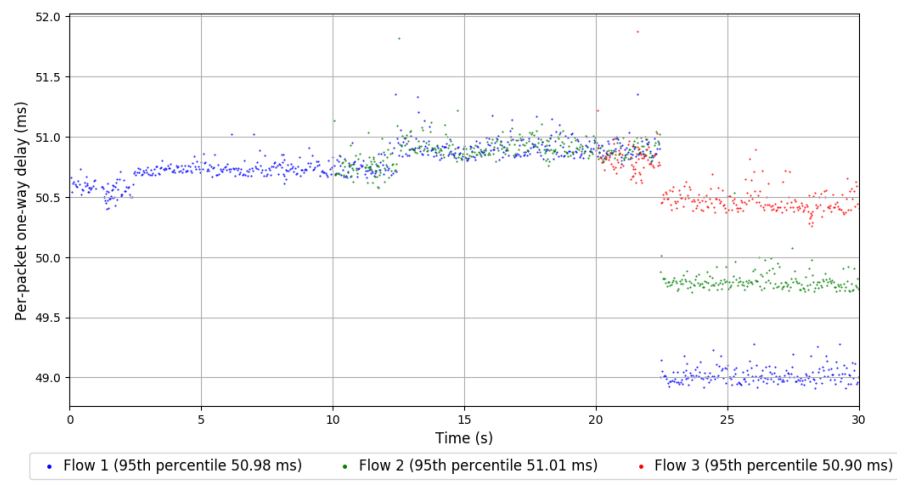
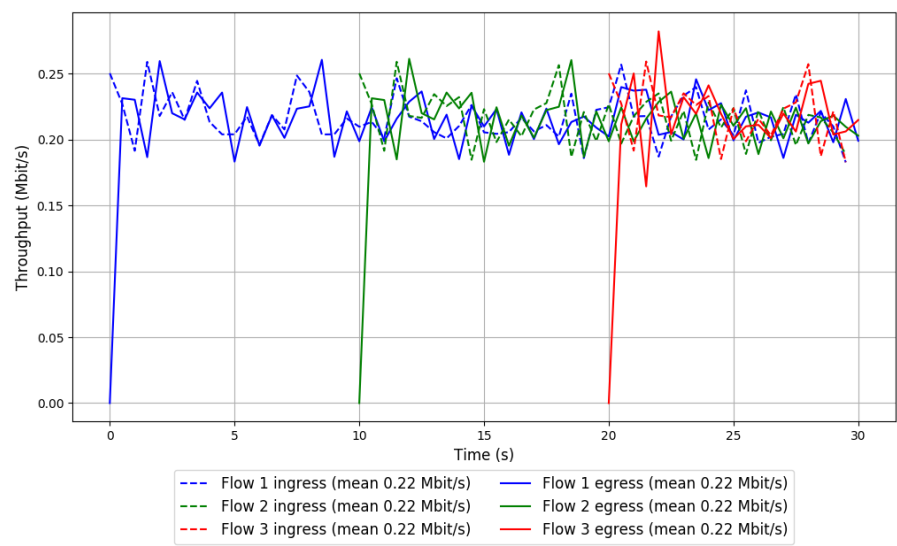


Run 7: Statistics of SReAM

Start at: 2018-06-20 12:40:12
End at: 2018-06-20 12:40:42
Local clock offset: 0.088 ms
Remote clock offset: -0.084 ms

Below is generated by plot.py at 2018-06-20 16:02:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.989 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.984 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.012 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.897 ms
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link

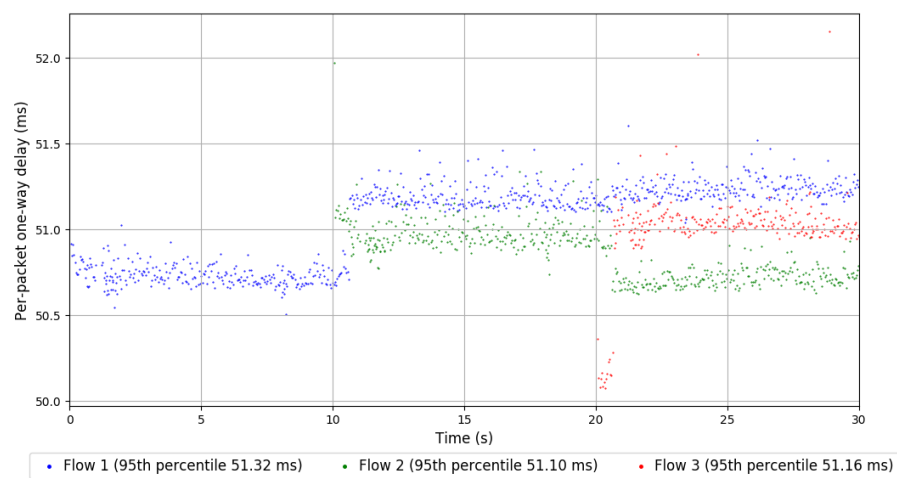
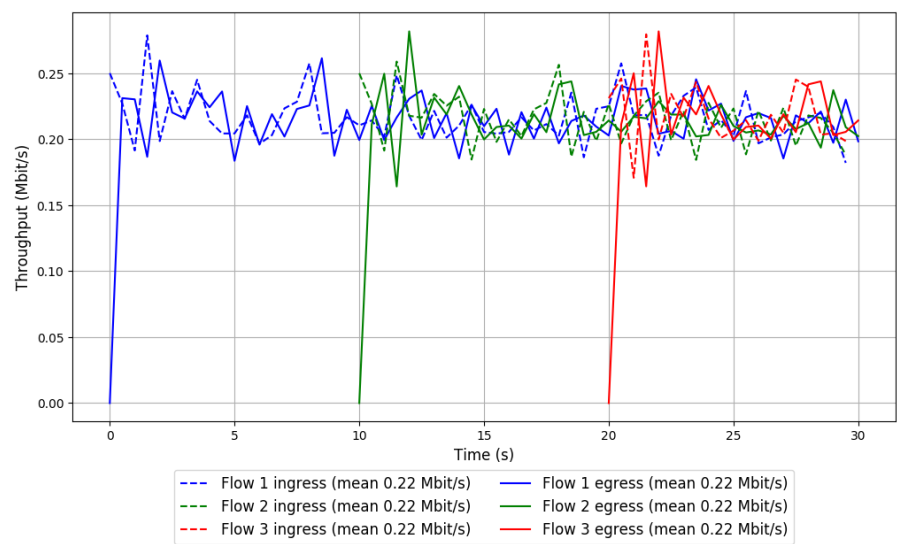


Run 8: Statistics of SReAM

Start at: 2018-06-20 13:03:04
End at: 2018-06-20 13:03:34
Local clock offset: -0.288 ms
Remote clock offset: -0.048 ms

Below is generated by plot.py at 2018-06-20 16:02:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 51.289 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.317 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.104 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.158 ms
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

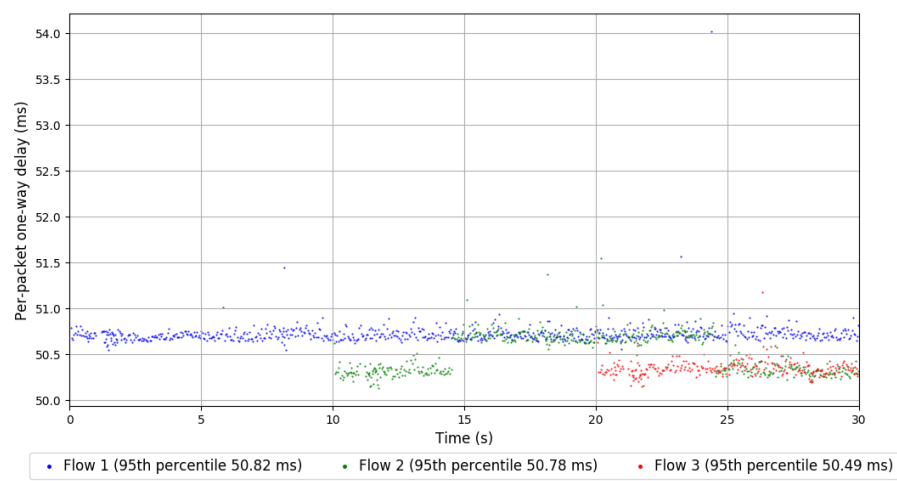
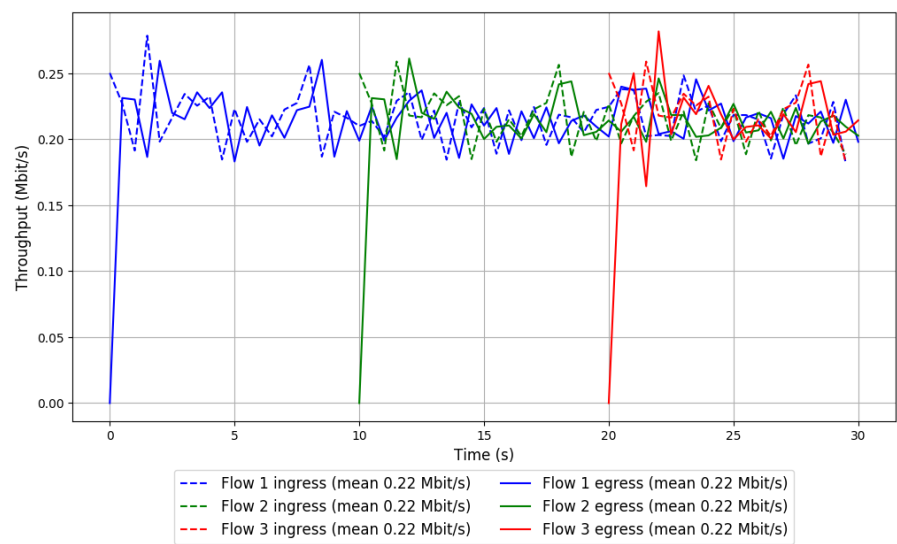


Run 9: Statistics of SReAM

Start at: 2018-06-20 13:26:00
End at: 2018-06-20 13:26:30
Local clock offset: 0.098 ms
Remote clock offset: -0.035 ms

Below is generated by plot.py at 2018-06-20 16:02:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.801 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.820 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.781 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.486 ms
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

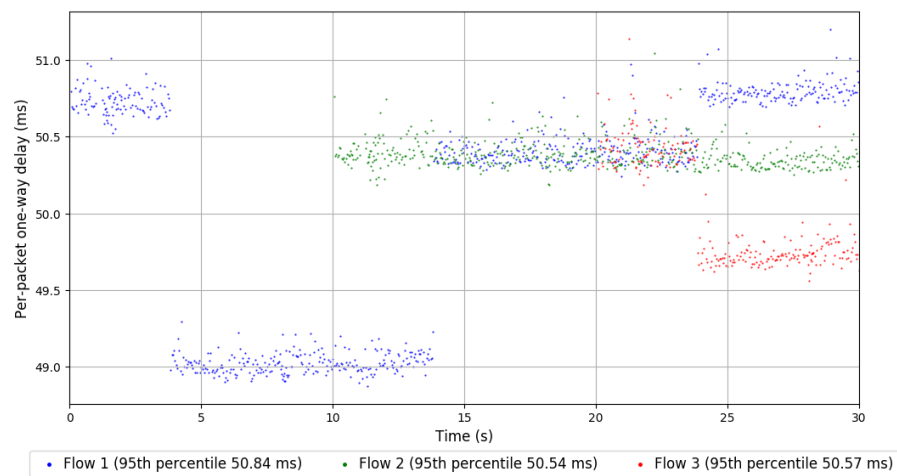
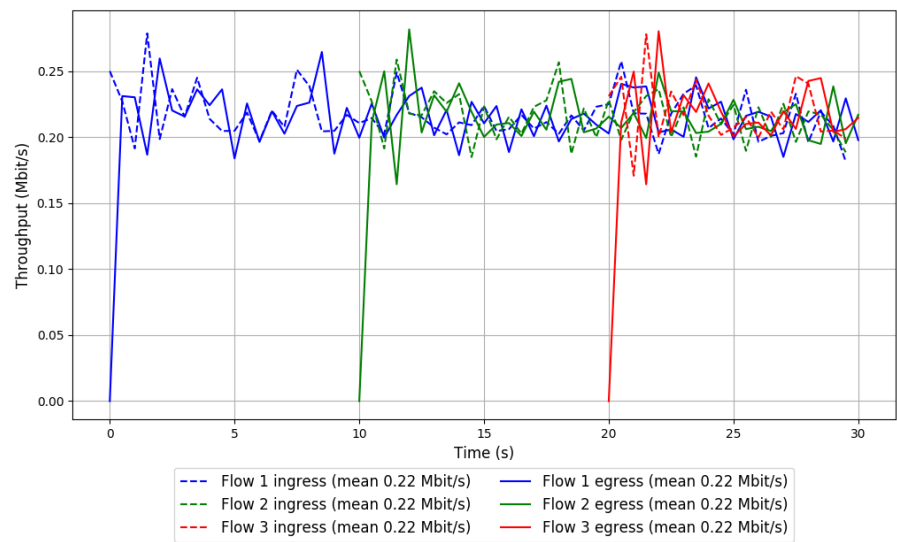


Run 10: Statistics of SReAM

Start at: 2018-06-20 13:49:10
End at: 2018-06-20 13:49:40
Local clock offset: 0.025 ms
Remote clock offset: -0.034 ms

Below is generated by plot.py at 2018-06-20 16:02:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.801 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.837 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.538 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.572 ms
Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

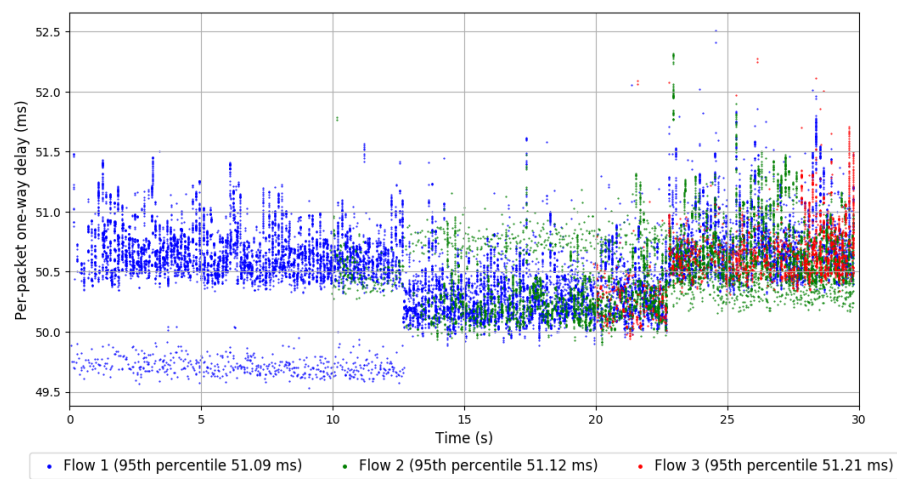
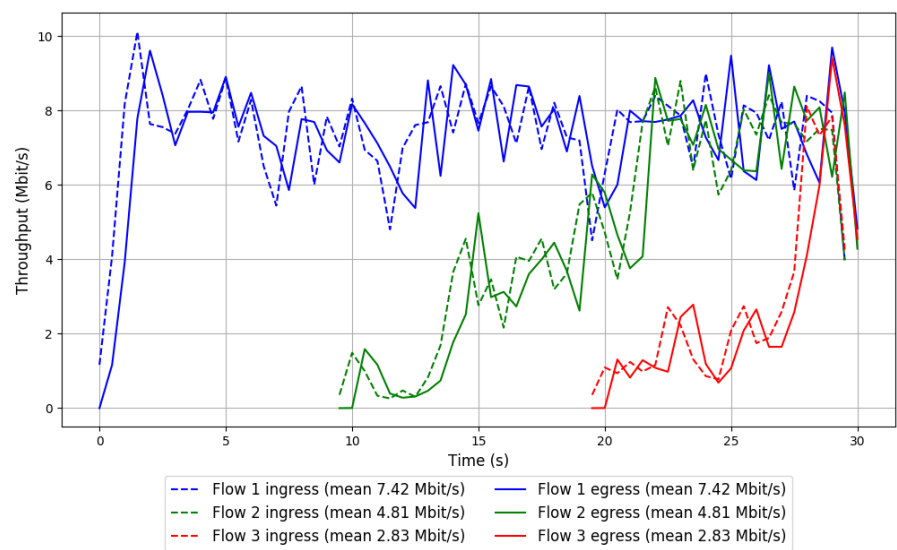


```
Run 1: Statistics of Sprout

Start at: 2018-06-20 10:33:21
End at: 2018-06-20 10:33:51
Local clock offset: -0.052 ms
Remote clock offset: 0.081 ms

# Below is generated by plot.py at 2018-06-20 16:02:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.58 Mbit/s
95th percentile per-packet one-way delay: 51.111 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.42 Mbit/s
95th percentile per-packet one-way delay: 51.092 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.81 Mbit/s
95th percentile per-packet one-way delay: 51.118 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.83 Mbit/s
95th percentile per-packet one-way delay: 51.210 ms
Loss rate: 0.00%
```


Run 1: Report of Sprout — Data Link

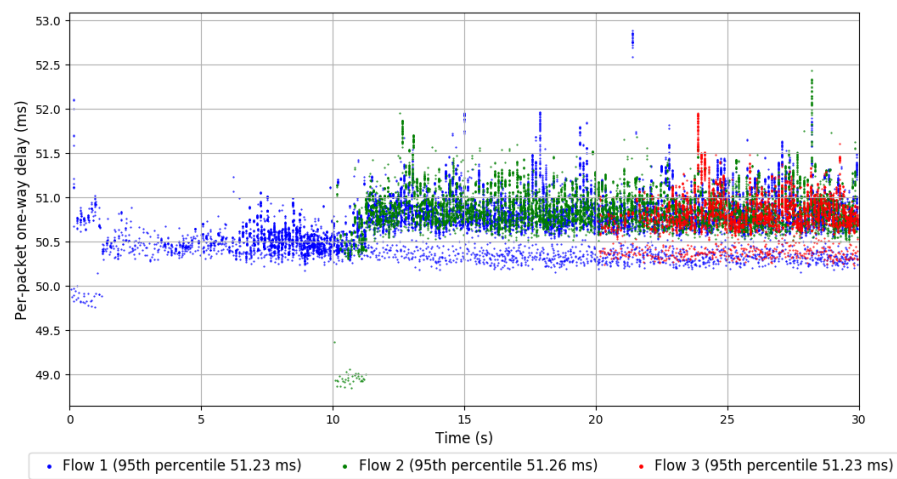
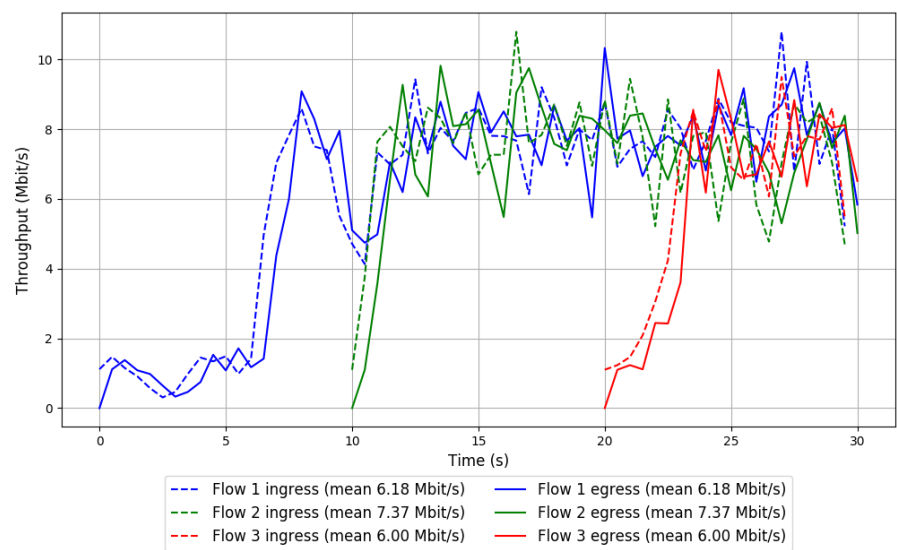


Run 2: Statistics of Sprout

Start at: 2018-06-20 10:56:33
End at: 2018-06-20 10:57:03
Local clock offset: -0.004 ms
Remote clock offset: 0.176 ms

Below is generated by plot.py at 2018-06-20 16:02:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 13.06 Mbit/s
95th percentile per-packet one-way delay: 51.240 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.18 Mbit/s
95th percentile per-packet one-way delay: 51.226 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.37 Mbit/s
95th percentile per-packet one-way delay: 51.257 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.00 Mbit/s
95th percentile per-packet one-way delay: 51.225 ms
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

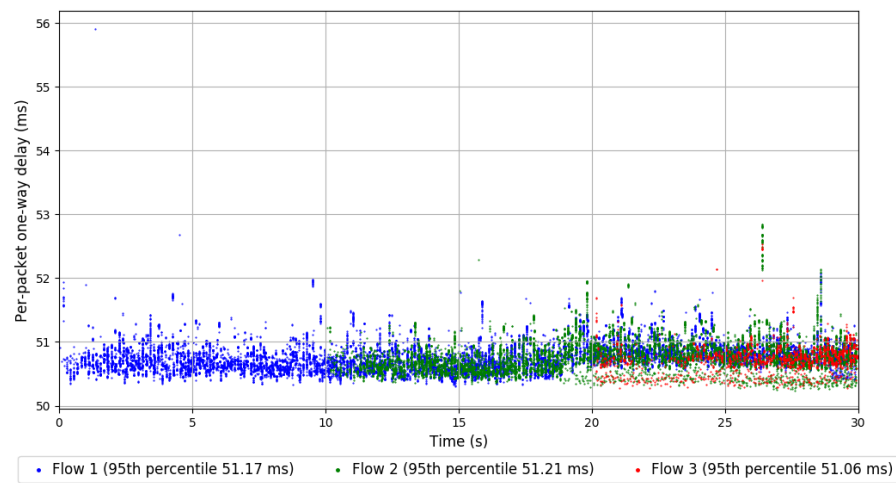
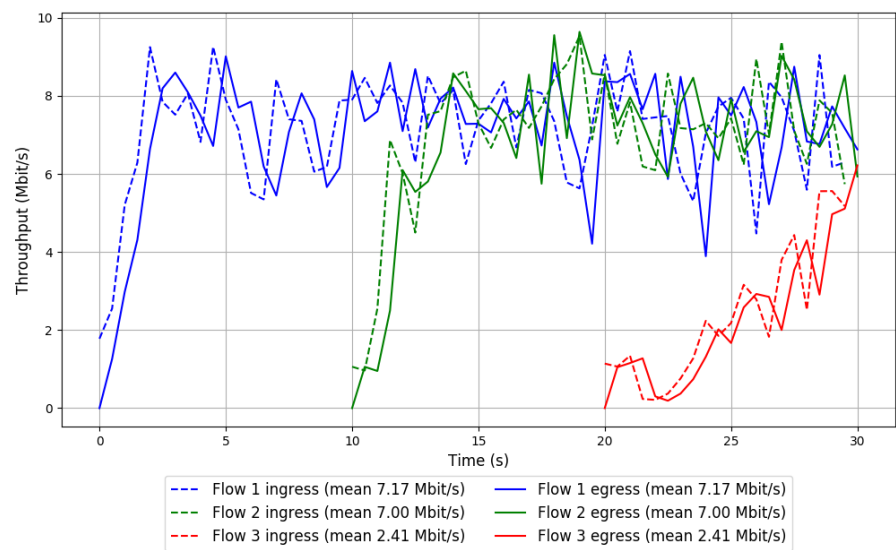


Run 3: Statistics of Sprout

Start at: 2018-06-20 11:19:55
End at: 2018-06-20 11:20:25
Local clock offset: -0.04 ms
Remote clock offset: 0.124 ms

```
# Below is generated by plot.py at 2018-06-20 16:02:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.61 Mbit/s
95th percentile per-packet one-way delay: 51.178 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.17 Mbit/s
95th percentile per-packet one-way delay: 51.169 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.00 Mbit/s
95th percentile per-packet one-way delay: 51.210 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.41 Mbit/s
95th percentile per-packet one-way delay: 51.056 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

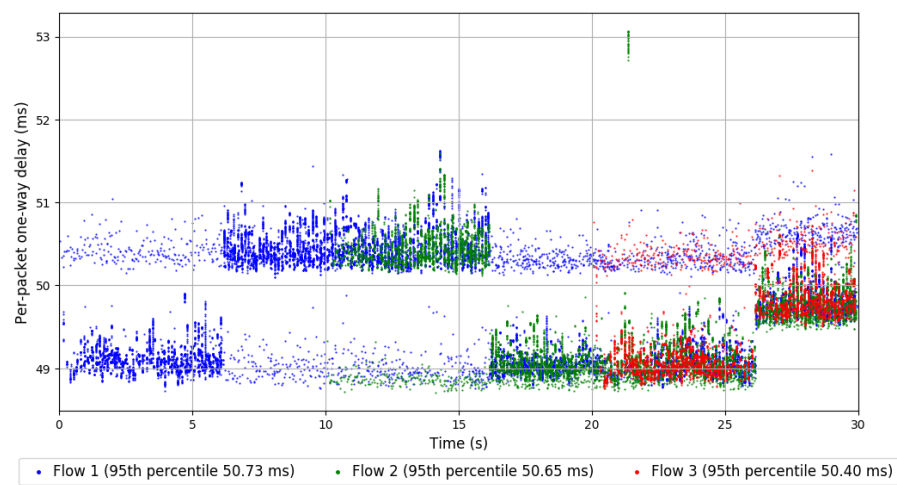
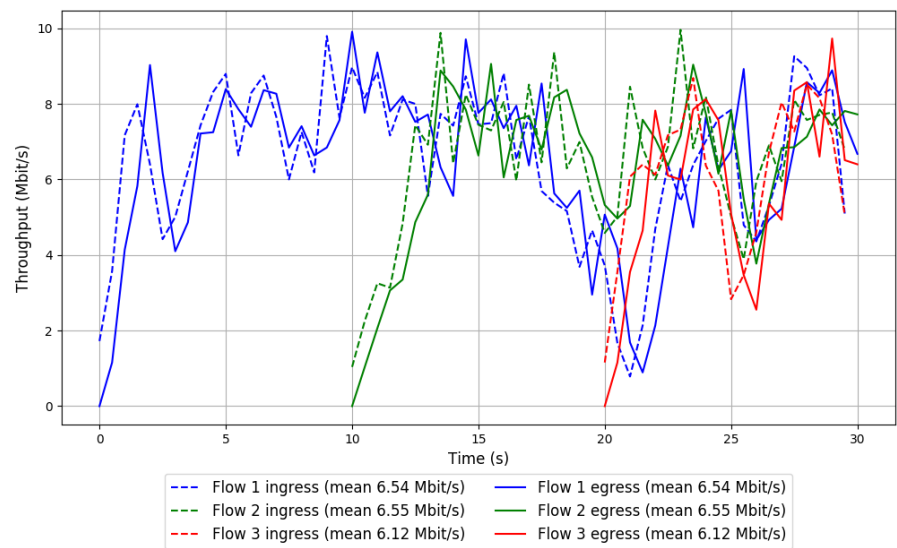


Run 4: Statistics of Sprout

Start at: 2018-06-20 11:43:08
End at: 2018-06-20 11:43:38
Local clock offset: 0.017 ms
Remote clock offset: 0.06 ms

```
# Below is generated by plot.py at 2018-06-20 16:02:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.90 Mbit/s
95th percentile per-packet one-way delay: 50.677 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.54 Mbit/s
95th percentile per-packet one-way delay: 50.725 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.55 Mbit/s
95th percentile per-packet one-way delay: 50.654 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.12 Mbit/s
95th percentile per-packet one-way delay: 50.403 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

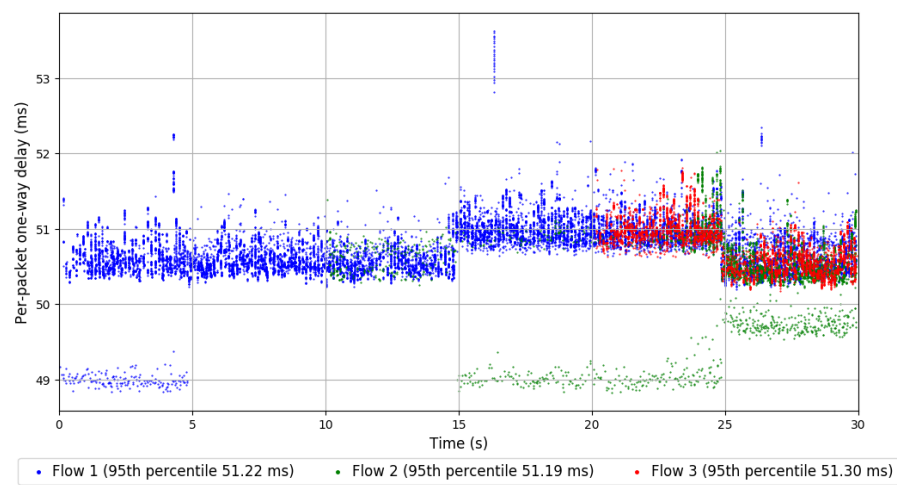
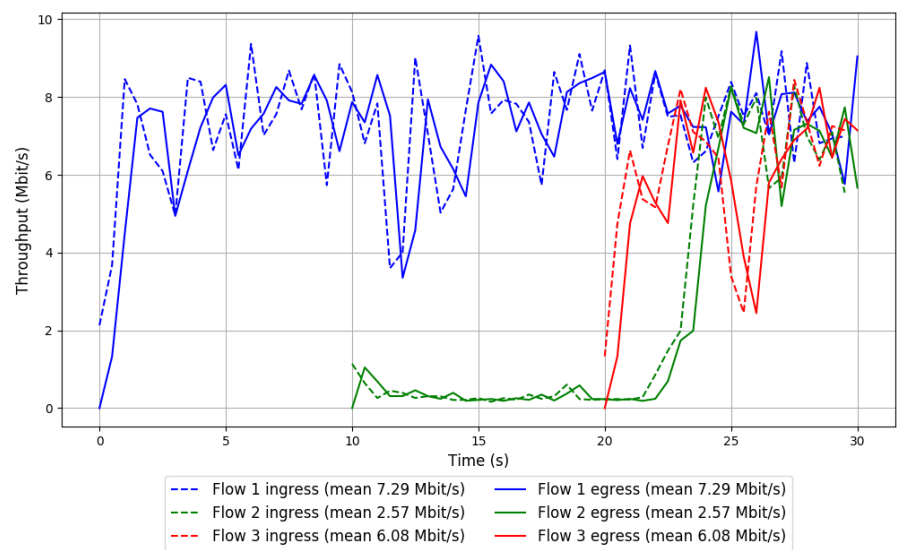


Run 5: Statistics of Sprout

Start at: 2018-06-20 12:06:09
End at: 2018-06-20 12:06:39
Local clock offset: -0.039 ms
Remote clock offset: 0.082 ms

```
# Below is generated by plot.py at 2018-06-20 16:02:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 10.99 Mbit/s
95th percentile per-packet one-way delay: 51.237 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.29 Mbit/s
95th percentile per-packet one-way delay: 51.224 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 2.57 Mbit/s
95th percentile per-packet one-way delay: 51.193 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.08 Mbit/s
95th percentile per-packet one-way delay: 51.297 ms
Loss rate: 0.00%
```


Run 5: Report of Sprout — Data Link

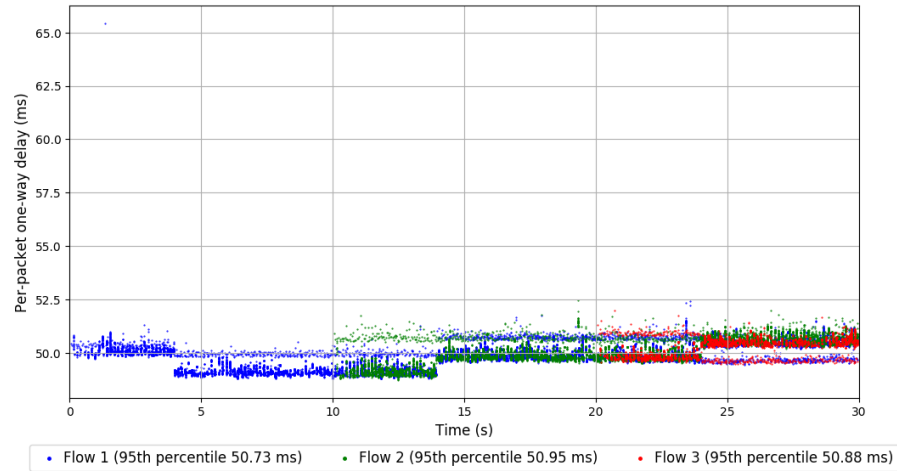
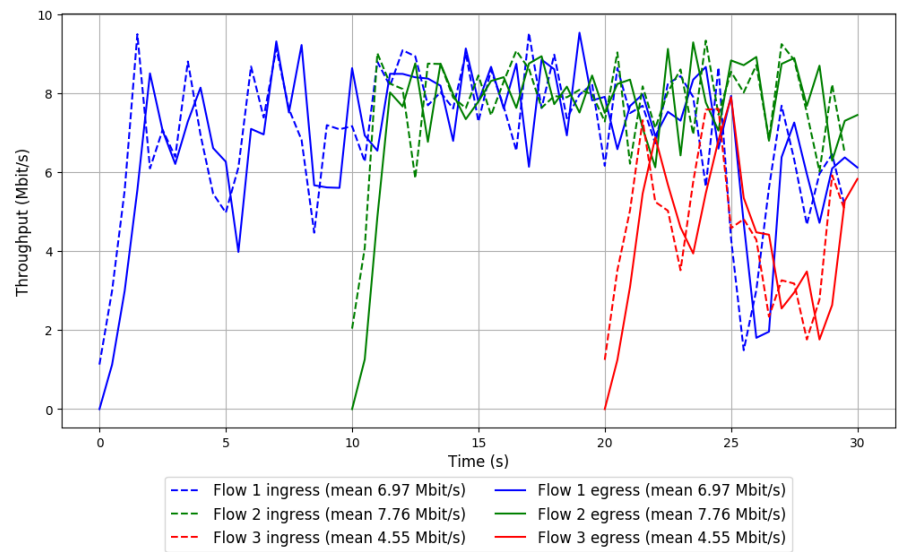


Run 6: Statistics of Sprout

Start at: 2018-06-20 12:29:10
End at: 2018-06-20 12:29:40
Local clock offset: 0.074 ms
Remote clock offset: -0.098 ms

Below is generated by plot.py at 2018-06-20 16:02:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 13.63 Mbit/s
95th percentile per-packet one-way delay: 50.837 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.97 Mbit/s
95th percentile per-packet one-way delay: 50.725 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.76 Mbit/s
95th percentile per-packet one-way delay: 50.949 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.55 Mbit/s
95th percentile per-packet one-way delay: 50.878 ms
Loss rate: 0.00%

Run 6: Report of Sprout — Data Link

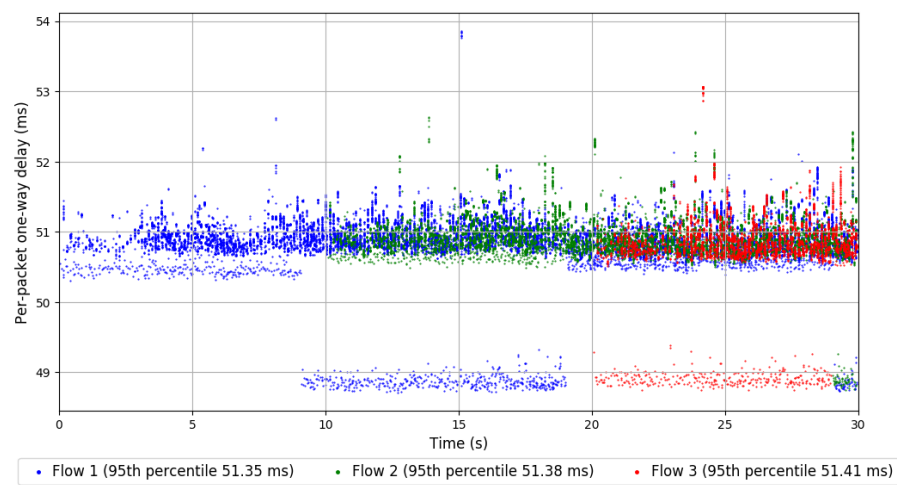
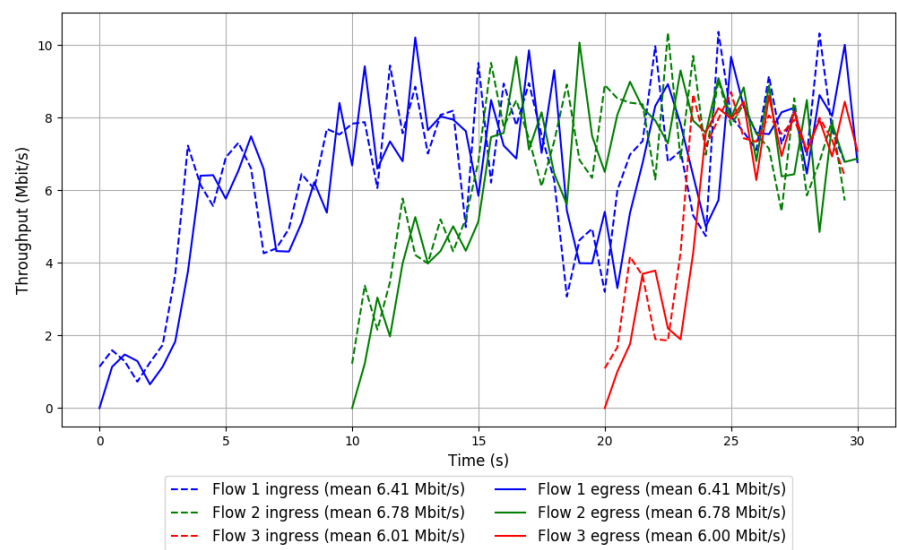


Run 7: Statistics of Sprout

Start at: 2018-06-20 12:52:15
End at: 2018-06-20 12:52:45
Local clock offset: 0.105 ms
Remote clock offset: -0.095 ms

Below is generated by plot.py at 2018-06-20 16:02:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 12.89 Mbit/s
95th percentile per-packet one-way delay: 51.366 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.41 Mbit/s
95th percentile per-packet one-way delay: 51.350 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.78 Mbit/s
95th percentile per-packet one-way delay: 51.384 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.00 Mbit/s
95th percentile per-packet one-way delay: 51.410 ms
Loss rate: 0.00%

Run 7: Report of Sprout — Data Link

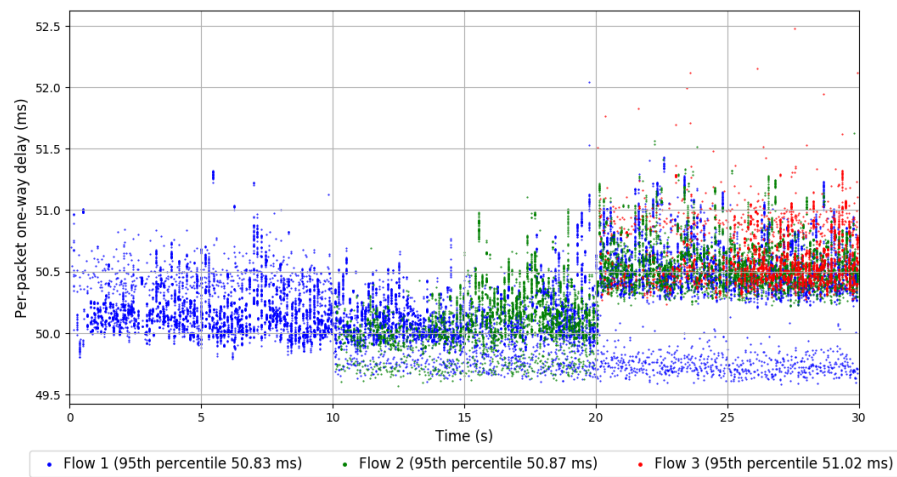
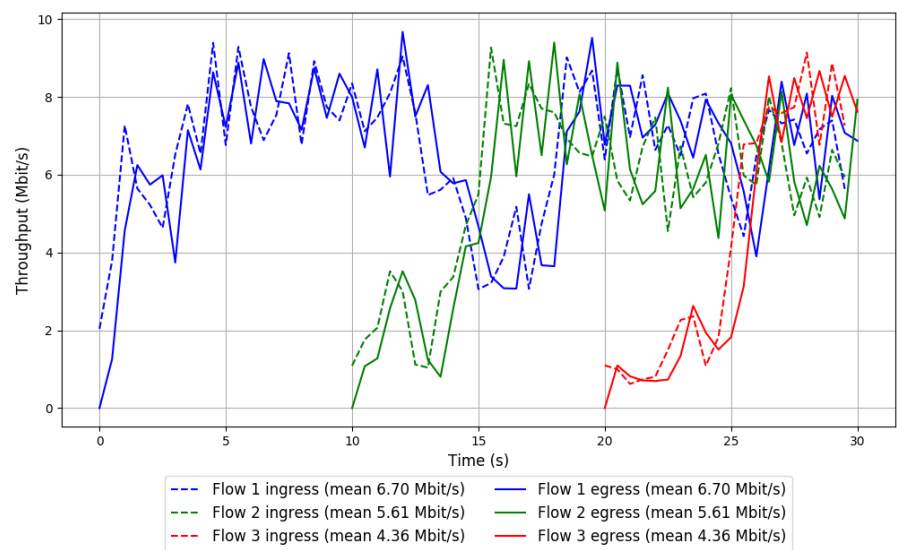


Run 8: Statistics of Sprout

Start at: 2018-06-20 13:15:04
End at: 2018-06-20 13:15:34
Local clock offset: 0.091 ms
Remote clock offset: 0.02 ms

```
# Below is generated by plot.py at 2018-06-20 16:02:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.86 Mbit/s
95th percentile per-packet one-way delay: 50.894 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.70 Mbit/s
95th percentile per-packet one-way delay: 50.830 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 5.61 Mbit/s
95th percentile per-packet one-way delay: 50.865 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.36 Mbit/s
95th percentile per-packet one-way delay: 51.025 ms
Loss rate: 0.00%
```

Run 8: Report of Sprout — Data Link

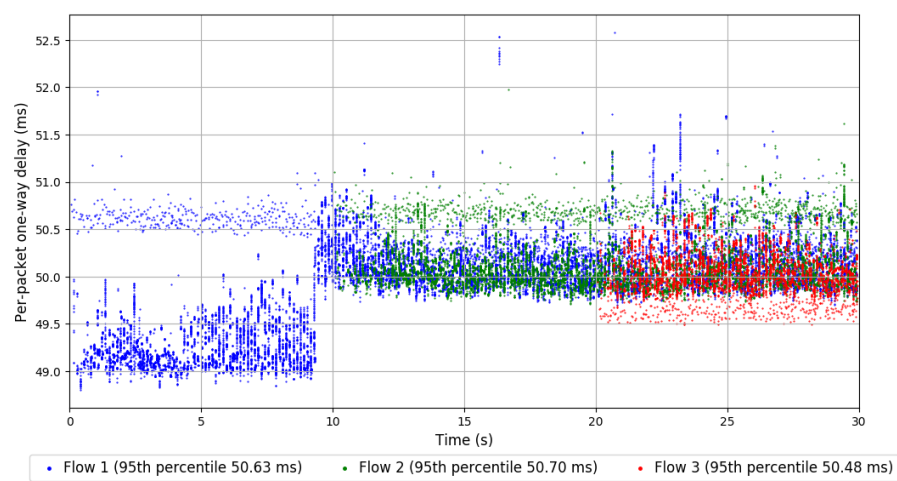
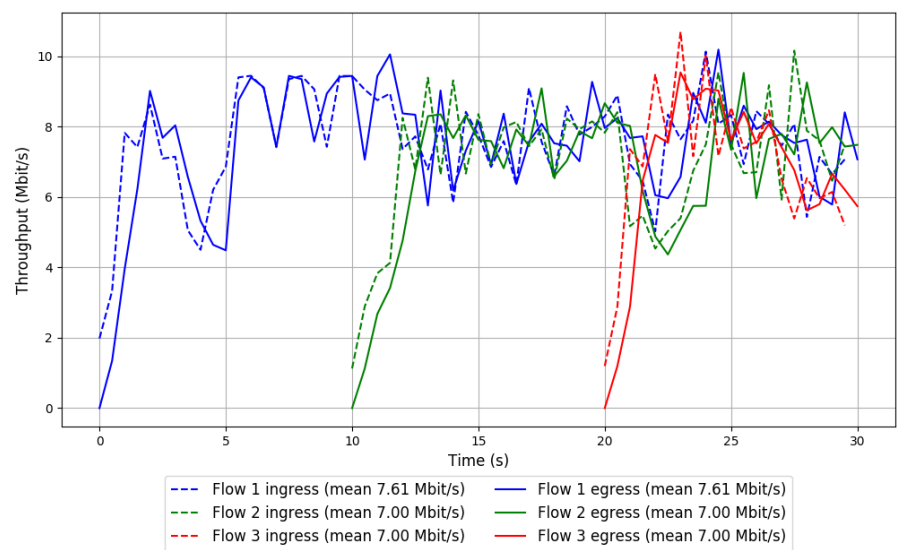


Run 9: Statistics of Sprout

Start at: 2018-06-20 13:38:05
End at: 2018-06-20 13:38:35
Local clock offset: 0.057 ms
Remote clock offset: -0.051 ms

Below is generated by plot.py at 2018-06-20 16:02:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 14.56 Mbit/s
95th percentile per-packet one-way delay: 50.642 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.61 Mbit/s
95th percentile per-packet one-way delay: 50.634 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.00 Mbit/s
95th percentile per-packet one-way delay: 50.697 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.00 Mbit/s
95th percentile per-packet one-way delay: 50.480 ms
Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-06-20 14:01:06

End at: 2018-06-20 14:01:36

Local clock offset: 0.027 ms

Remote clock offset: 0.088 ms

Below is generated by plot.py at 2018-06-20 16:02:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.90 Mbit/s

95th percentile per-packet one-way delay: 51.168 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 7.33 Mbit/s

95th percentile per-packet one-way delay: 51.168 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 5.81 Mbit/s

95th percentile per-packet one-way delay: 51.245 ms

Loss rate: 0.00%

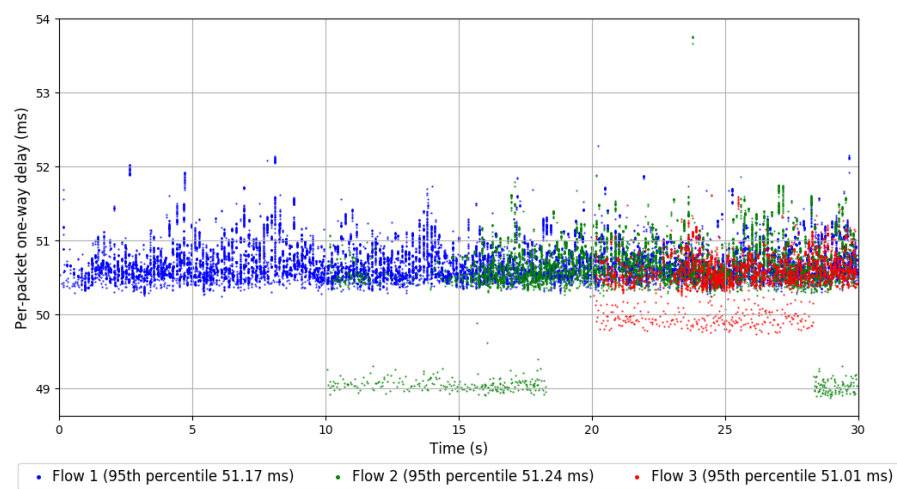
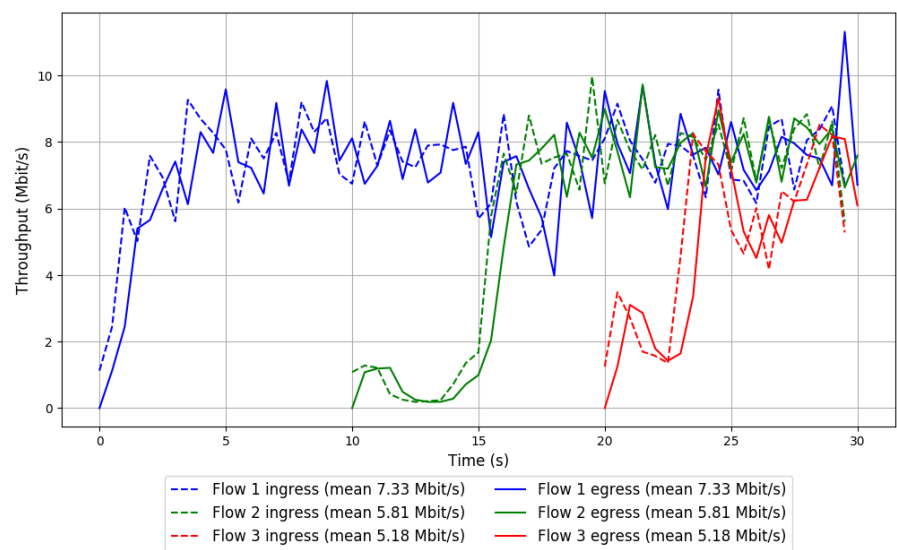
-- Flow 3:

Average throughput: 5.18 Mbit/s

95th percentile per-packet one-way delay: 51.011 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

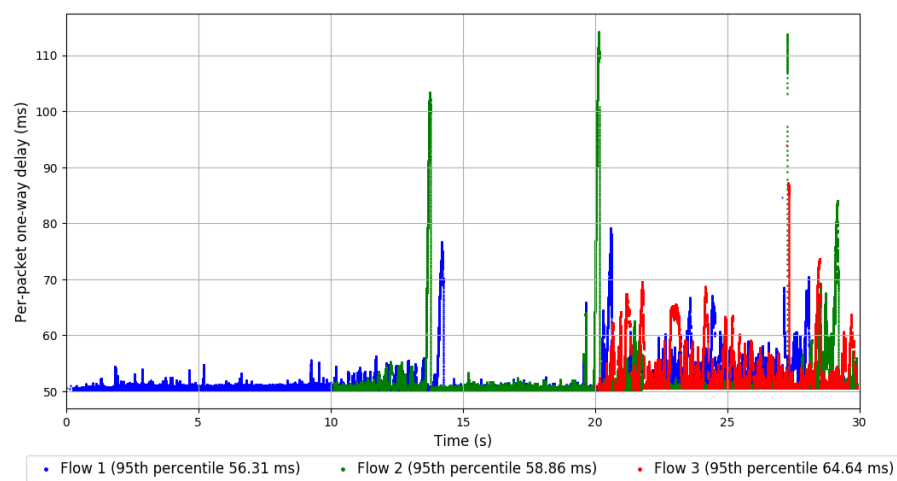
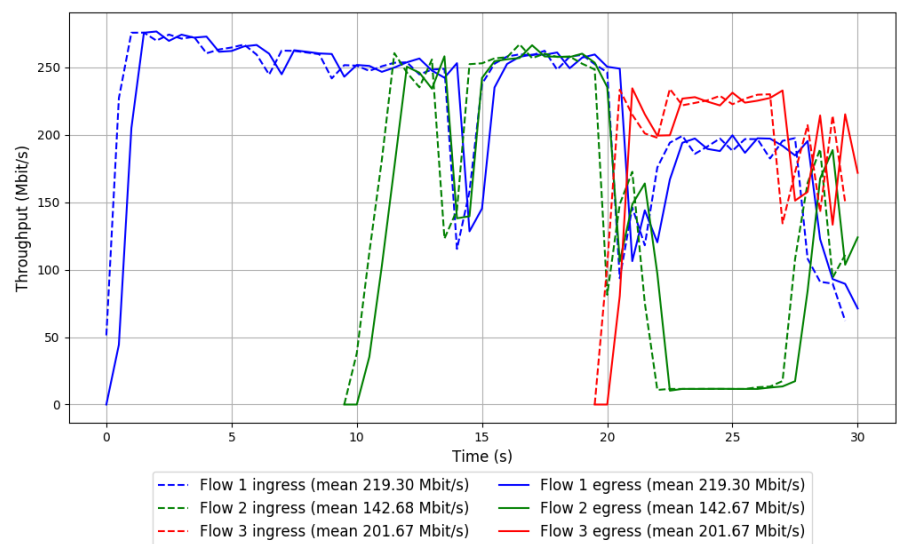


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-06-20 10:14:12
End at: 2018-06-20 10:14:42
Local clock offset: -0.032 ms
Remote clock offset: 0.02 ms

# Below is generated by plot.py at 2018-06-20 16:08:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 381.99 Mbit/s
95th percentile per-packet one-way delay: 60.130 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 219.30 Mbit/s
95th percentile per-packet one-way delay: 56.308 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 142.67 Mbit/s
95th percentile per-packet one-way delay: 58.860 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 201.67 Mbit/s
95th percentile per-packet one-way delay: 64.642 ms
Loss rate: 0.00%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-06-20 10:37:25

End at: 2018-06-20 10:37:55

Local clock offset: -0.026 ms

Remote clock offset: 0.074 ms

Below is generated by plot.py at 2018-06-20 16:09:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 386.41 Mbit/s

95th percentile per-packet one-way delay: 54.566 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 215.94 Mbit/s

95th percentile per-packet one-way delay: 55.576 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 183.75 Mbit/s

95th percentile per-packet one-way delay: 53.493 ms

Loss rate: 0.00%

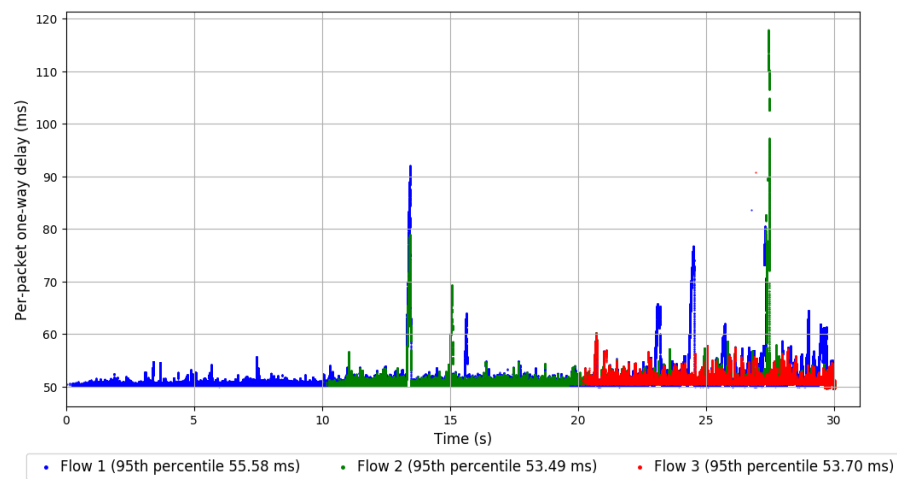
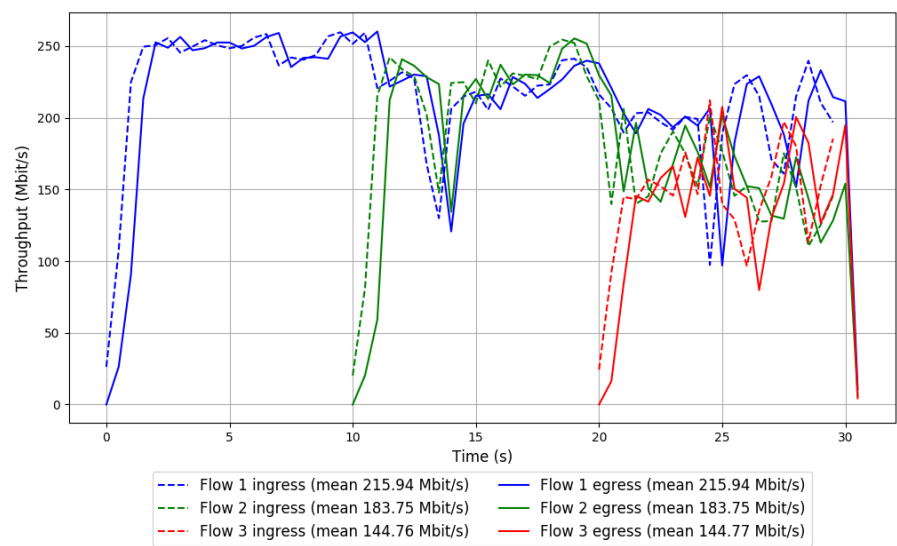
-- Flow 3:

Average throughput: 144.77 Mbit/s

95th percentile per-packet one-way delay: 53.705 ms

Loss rate: 0.00%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-06-20 11:00:37

End at: 2018-06-20 11:01:07

Local clock offset: -0.036 ms

Remote clock offset: 0.178 ms

Below is generated by plot.py at 2018-06-20 16:09:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 369.30 Mbit/s

95th percentile per-packet one-way delay: 58.405 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 191.34 Mbit/s

95th percentile per-packet one-way delay: 52.831 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 173.22 Mbit/s

95th percentile per-packet one-way delay: 59.768 ms

Loss rate: 0.00%

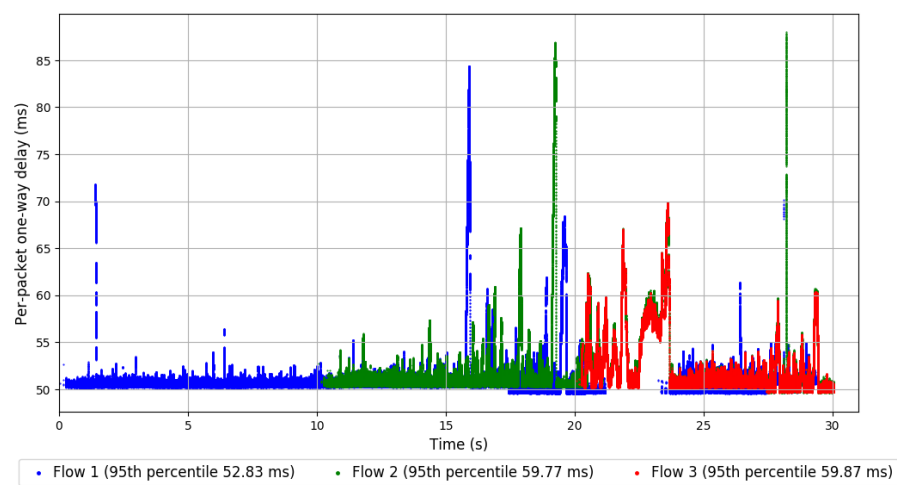
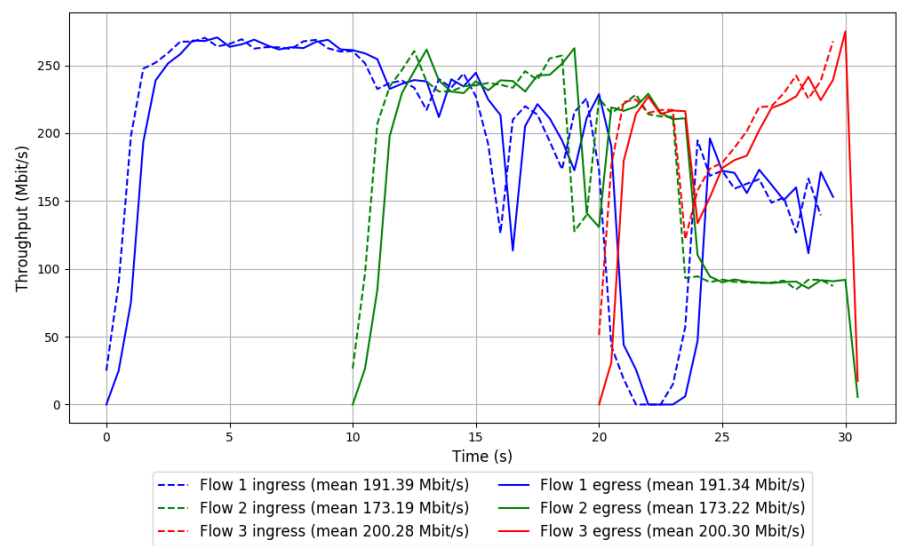
-- Flow 3:

Average throughput: 200.30 Mbit/s

95th percentile per-packet one-way delay: 59.874 ms

Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-06-20 11:24:00

End at: 2018-06-20 11:24:30

Local clock offset: 0.363 ms

Remote clock offset: 0.101 ms

Below is generated by plot.py at 2018-06-20 16:09:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 375.28 Mbit/s

95th percentile per-packet one-way delay: 63.569 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 208.34 Mbit/s

95th percentile per-packet one-way delay: 55.612 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 175.58 Mbit/s

95th percentile per-packet one-way delay: 68.502 ms

Loss rate: 0.01%

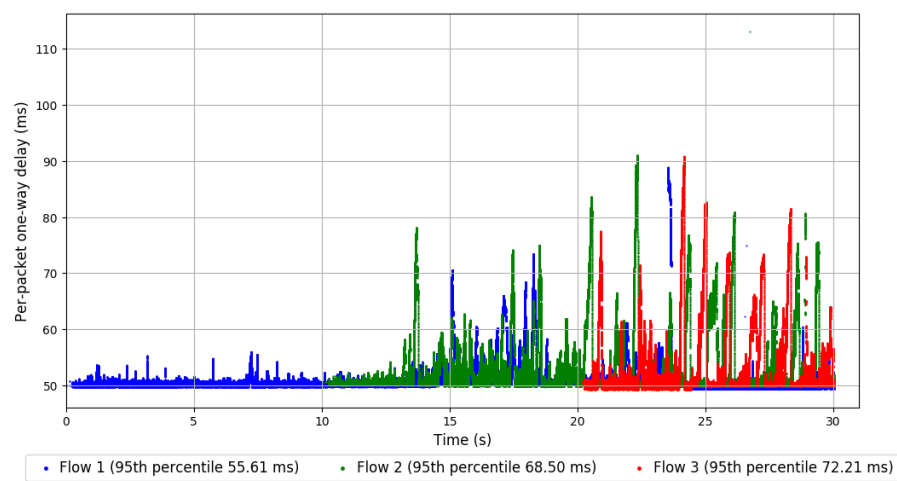
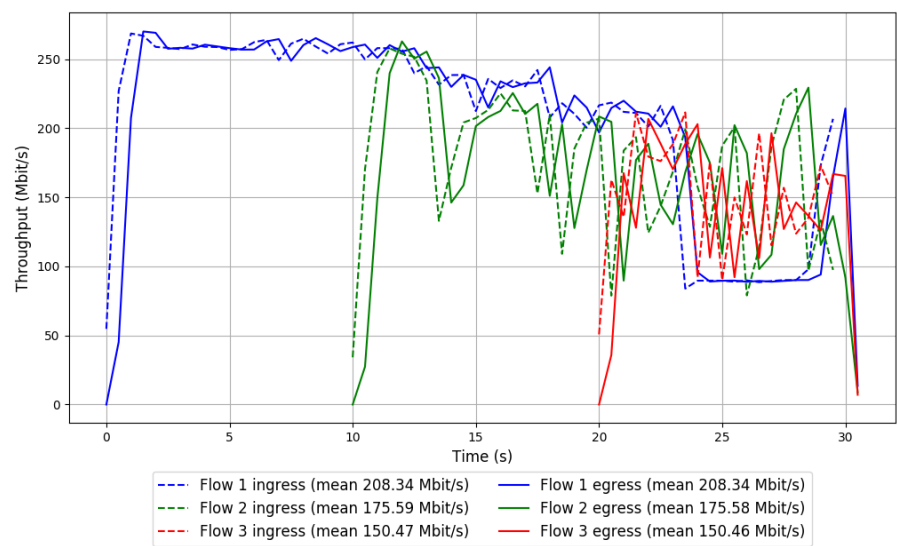
-- Flow 3:

Average throughput: 150.46 Mbit/s

95th percentile per-packet one-way delay: 72.213 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-06-20 11:47:07

End at: 2018-06-20 11:47:37

Local clock offset: -0.034 ms

Remote clock offset: 0.064 ms

Below is generated by plot.py at 2018-06-20 16:09:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 307.83 Mbit/s

95th percentile per-packet one-way delay: 51.995 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 167.34 Mbit/s

95th percentile per-packet one-way delay: 51.776 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 136.36 Mbit/s

95th percentile per-packet one-way delay: 52.169 ms

Loss rate: 0.04%

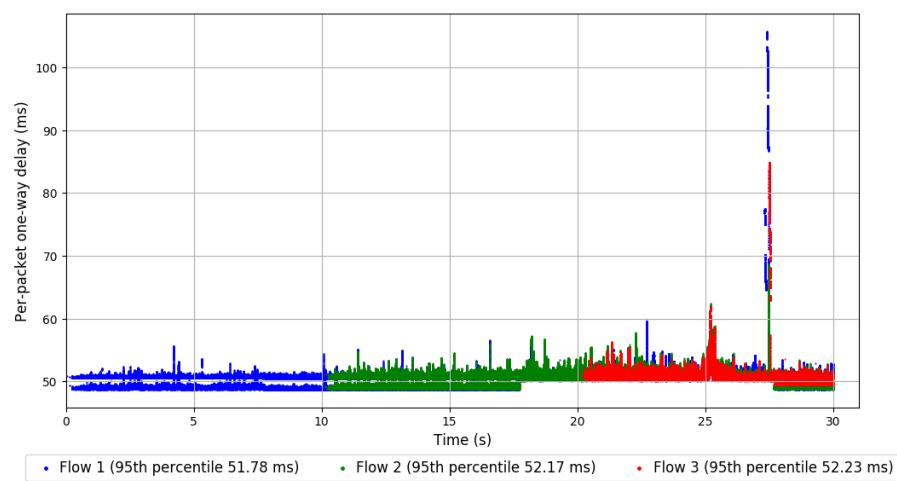
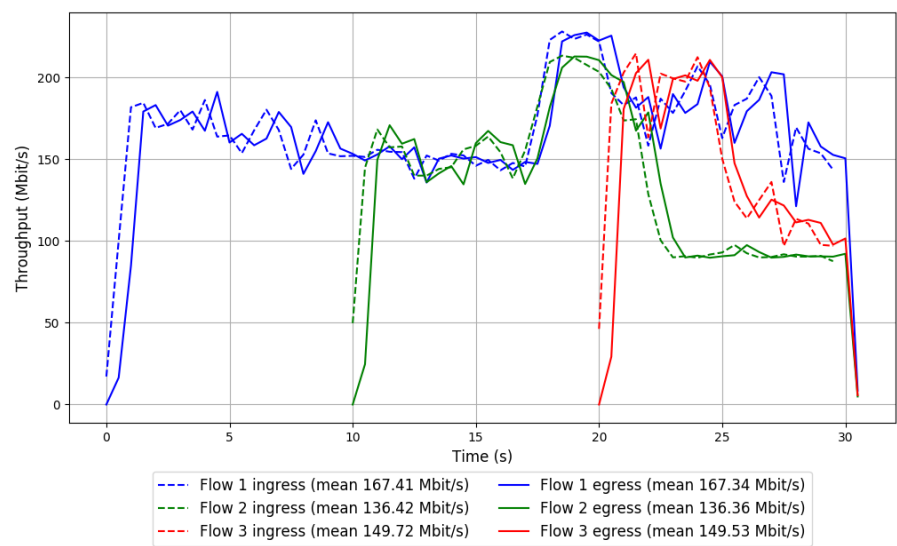
-- Flow 3:

Average throughput: 149.53 Mbit/s

95th percentile per-packet one-way delay: 52.231 ms

Loss rate: 0.13%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-06-20 12:10:07

End at: 2018-06-20 12:10:37

Local clock offset: -0.043 ms

Remote clock offset: 0.05 ms

Below is generated by plot.py at 2018-06-20 16:11:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 366.48 Mbit/s

95th percentile per-packet one-way delay: 52.398 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 181.60 Mbit/s

95th percentile per-packet one-way delay: 51.570 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 206.39 Mbit/s

95th percentile per-packet one-way delay: 53.646 ms

Loss rate: 0.01%

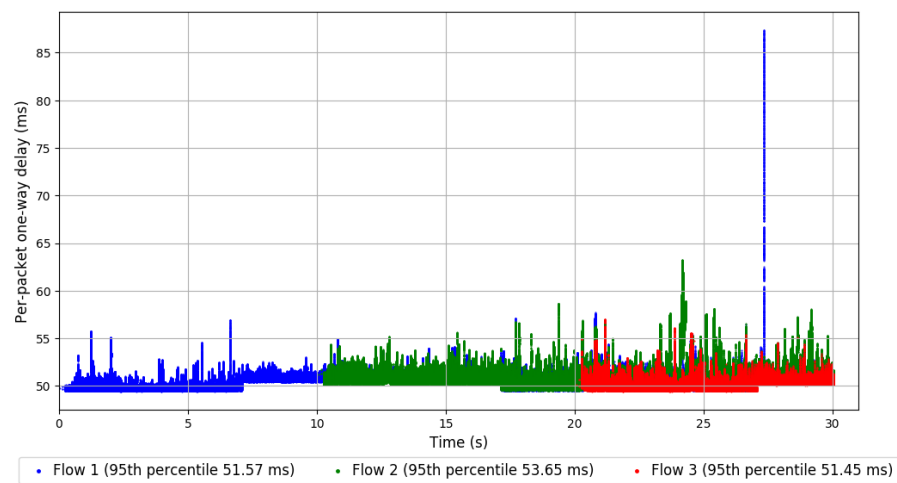
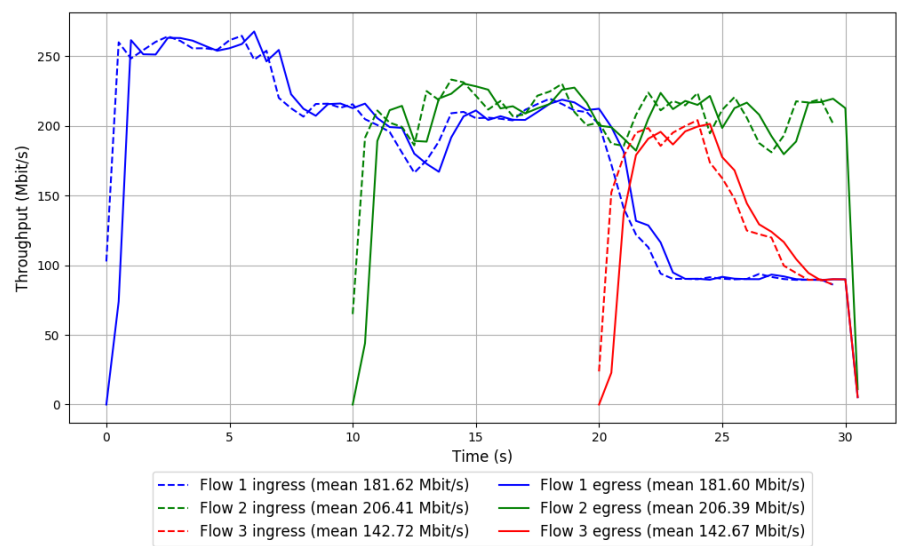
-- Flow 3:

Average throughput: 142.67 Mbit/s

95th percentile per-packet one-way delay: 51.449 ms

Loss rate: 0.03%

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

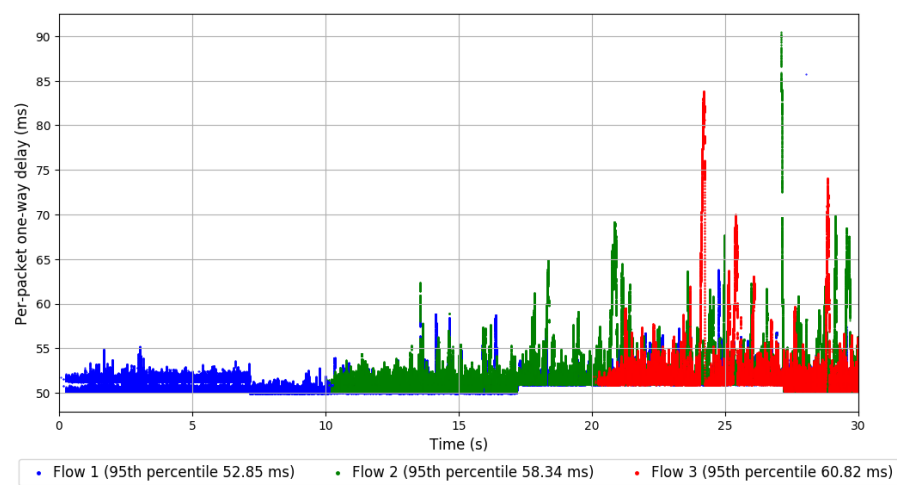
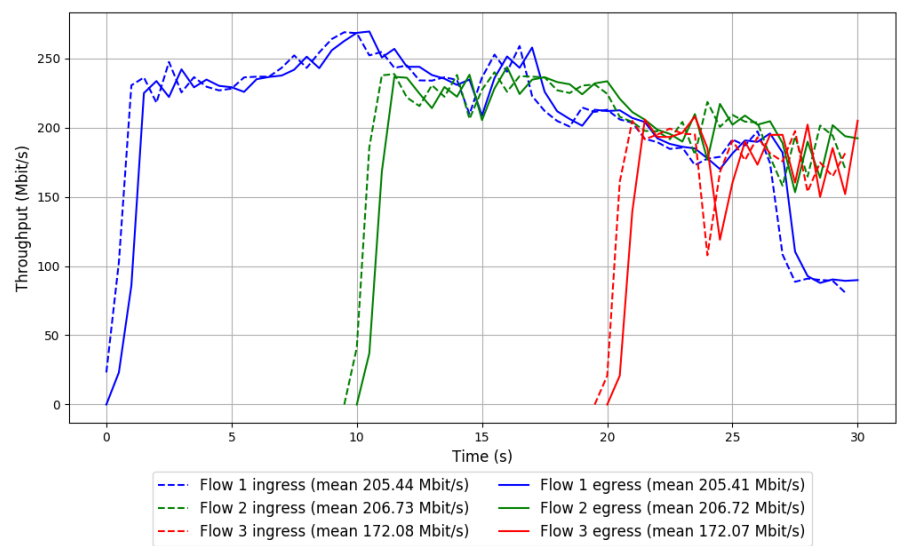


Run 7: Statistics of TaoVA-100x

Start at: 2018-06-20 12:33:17
End at: 2018-06-20 12:33:47
Local clock offset: -0.354 ms
Remote clock offset: -0.062 ms

Below is generated by plot.py at 2018-06-20 16:14:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 400.49 Mbit/s
95th percentile per-packet one-way delay: 55.566 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 205.41 Mbit/s
95th percentile per-packet one-way delay: 52.846 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 206.72 Mbit/s
95th percentile per-packet one-way delay: 58.342 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 172.07 Mbit/s
95th percentile per-packet one-way delay: 60.822 ms
Loss rate: 0.00%

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

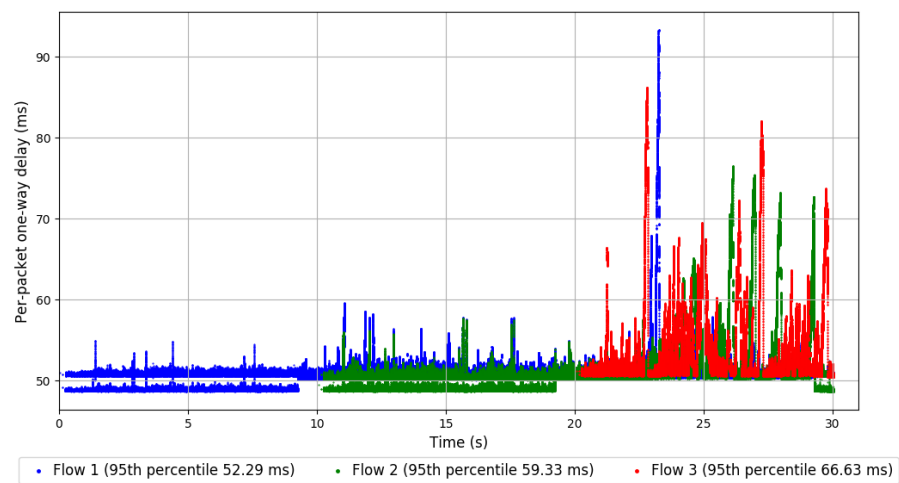
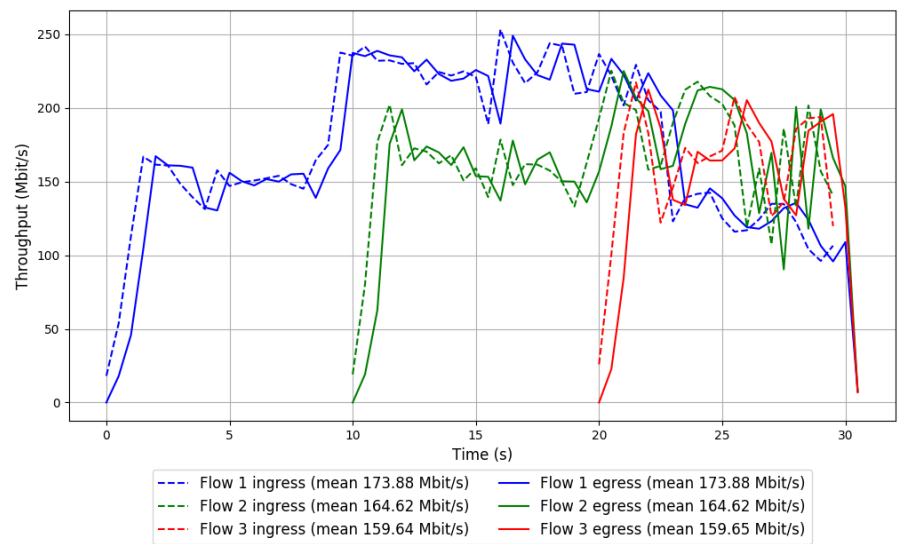


Run 8: Statistics of TaoVA-100x

Start at: 2018-06-20 12:56:15
End at: 2018-06-20 12:56:45
Local clock offset: 0.114 ms
Remote clock offset: -0.038 ms

Below is generated by plot.py at 2018-06-20 16:14:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 336.57 Mbit/s
95th percentile per-packet one-way delay: 57.793 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 173.88 Mbit/s
95th percentile per-packet one-way delay: 52.288 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 164.62 Mbit/s
95th percentile per-packet one-way delay: 59.328 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 159.65 Mbit/s
95th percentile per-packet one-way delay: 66.630 ms
Loss rate: 0.00%

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

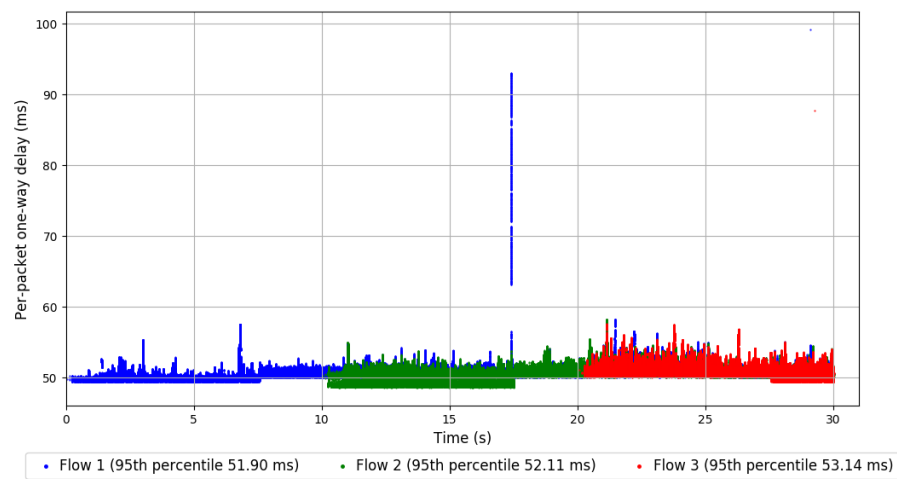
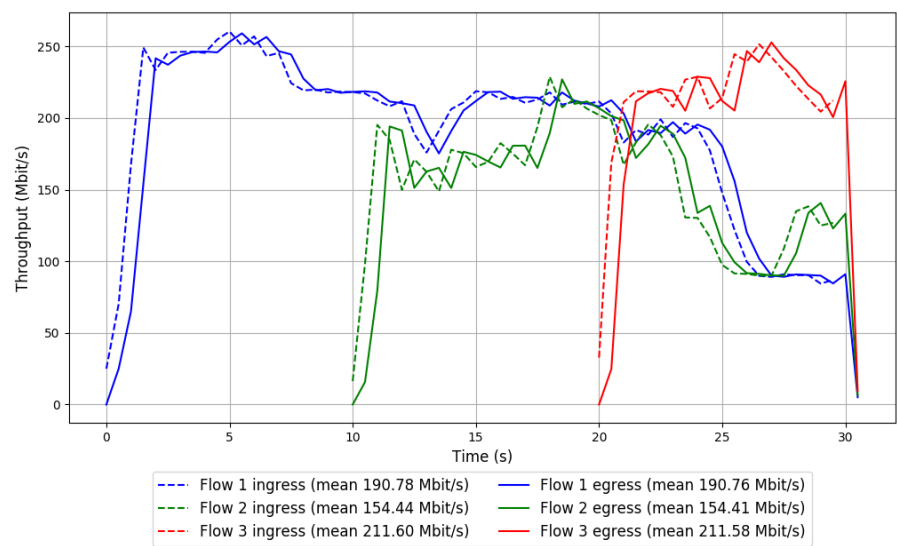


Run 9: Statistics of TaoVA-100x

Start at: 2018-06-20 13:19:07
End at: 2018-06-20 13:19:37
Local clock offset: 0.134 ms
Remote clock offset: -0.071 ms

Below is generated by plot.py at 2018-06-20 16:19:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 363.91 Mbit/s
95th percentile per-packet one-way delay: 52.317 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 190.76 Mbit/s
95th percentile per-packet one-way delay: 51.900 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 154.41 Mbit/s
95th percentile per-packet one-way delay: 52.108 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 211.58 Mbit/s
95th percentile per-packet one-way delay: 53.142 ms
Loss rate: 0.02%

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

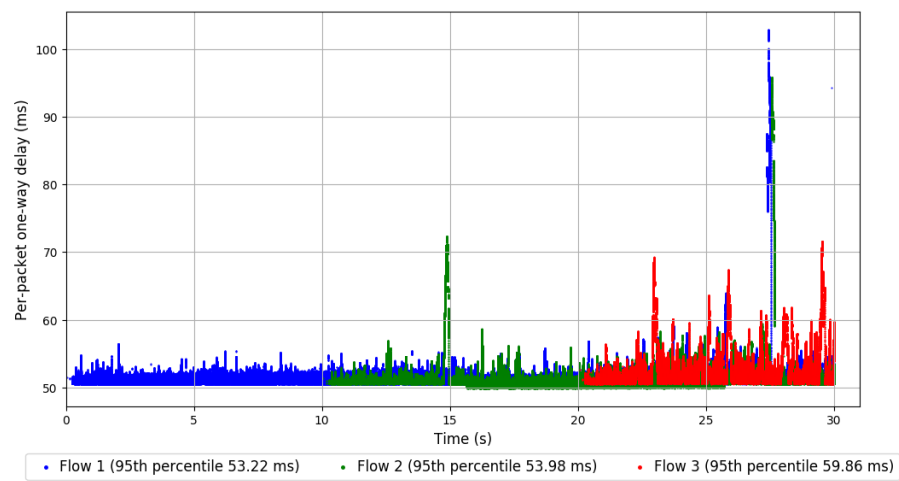
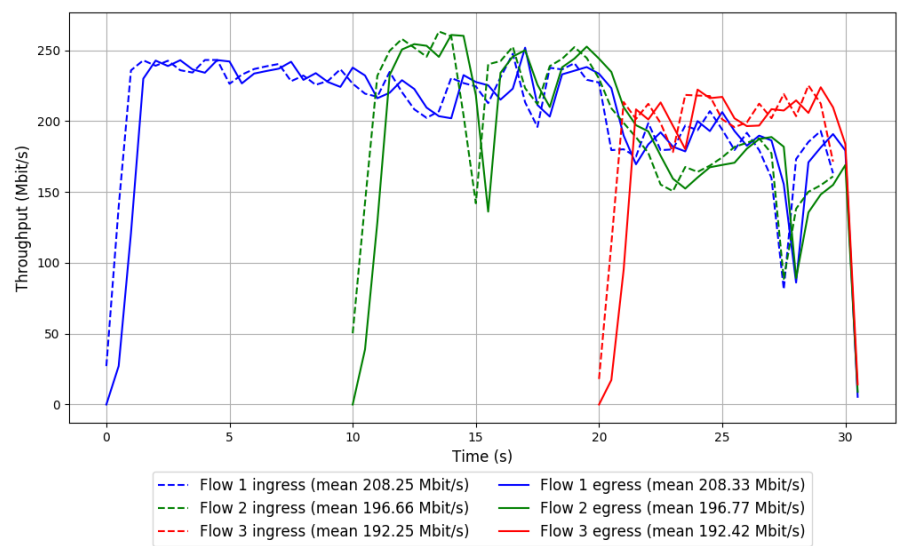


Run 10: Statistics of TaoVA-100x

Start at: 2018-06-20 13:42:09
End at: 2018-06-20 13:42:39
Local clock offset: -0.375 ms
Remote clock offset: -0.051 ms

Below is generated by plot.py at 2018-06-20 16:22:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 403.23 Mbit/s
95th percentile per-packet one-way delay: 54.756 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 208.33 Mbit/s
95th percentile per-packet one-way delay: 53.220 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 196.77 Mbit/s
95th percentile per-packet one-way delay: 53.984 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 192.42 Mbit/s
95th percentile per-packet one-way delay: 59.861 ms
Loss rate: 0.02%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-06-20 10:27:06

End at: 2018-06-20 10:27:36

Local clock offset: -0.002 ms

Remote clock offset: 0.024 ms

Below is generated by plot.py at 2018-06-20 16:22:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 196.39 Mbit/s

95th percentile per-packet one-way delay: 51.624 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 163.02 Mbit/s

95th percentile per-packet one-way delay: 51.674 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 12.35 Mbit/s

95th percentile per-packet one-way delay: 51.207 ms

Loss rate: 0.02%

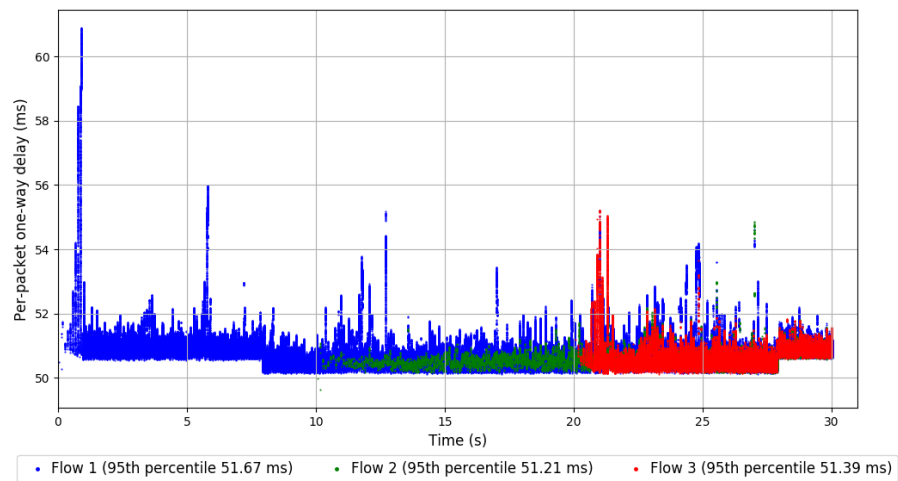
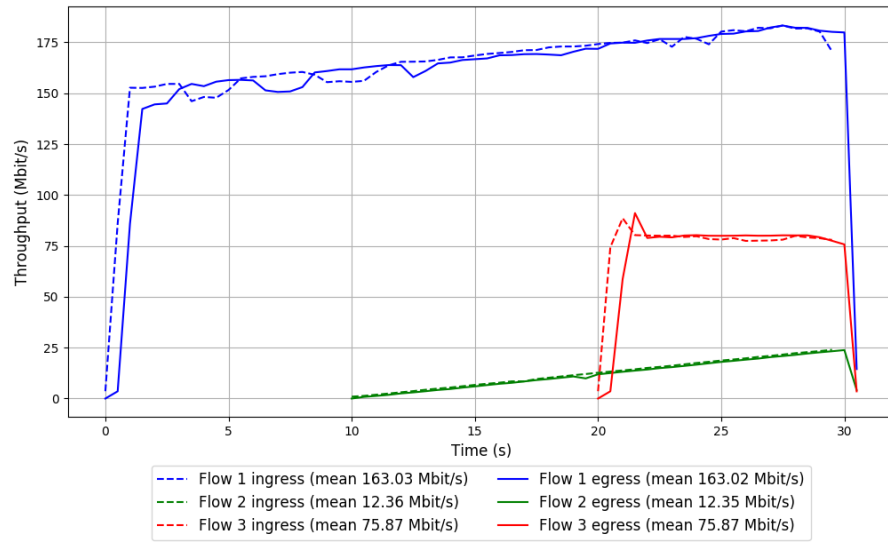
-- Flow 3:

Average throughput: 75.87 Mbit/s

95th percentile per-packet one-way delay: 51.386 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link

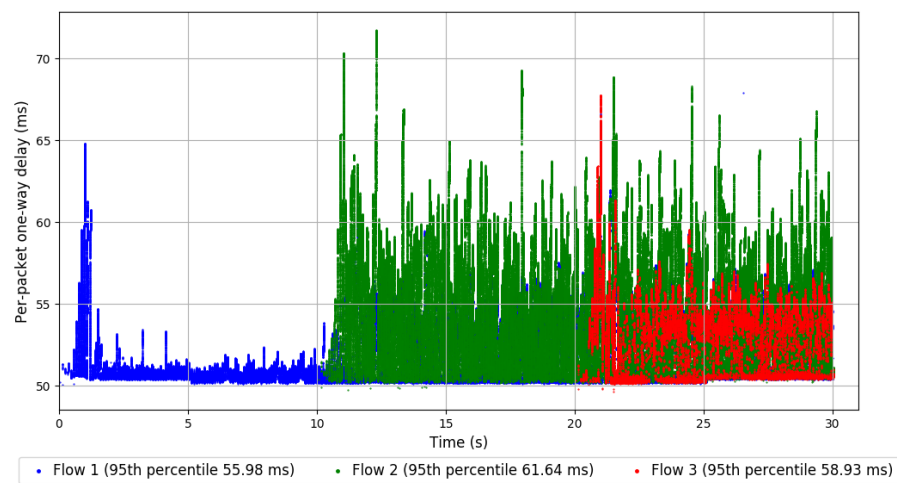
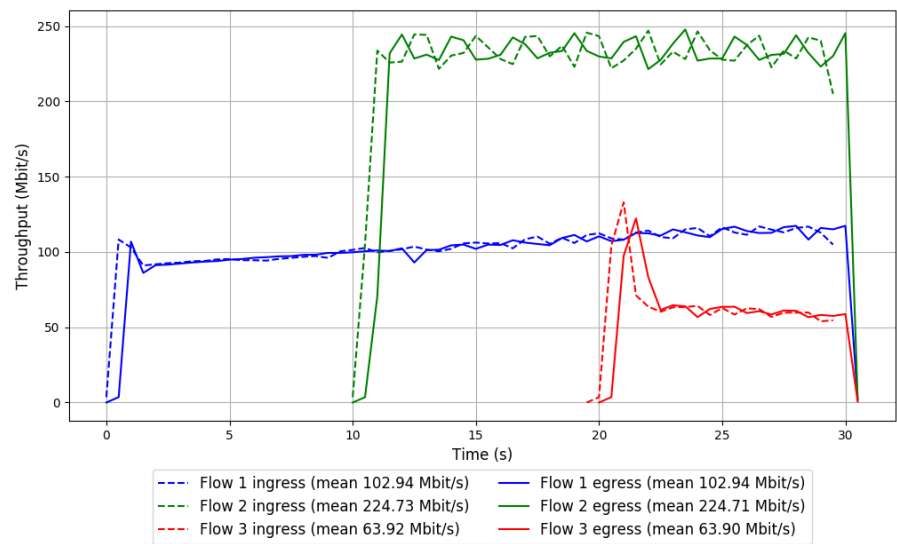


Run 2: Statistics of TCP Vegas

Start at: 2018-06-20 10:50:09
End at: 2018-06-20 10:50:39
Local clock offset: 0.026 ms
Remote clock offset: 0.1 ms

Below is generated by plot.py at 2018-06-20 16:22:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 273.79 Mbit/s
95th percentile per-packet one-way delay: 60.453 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 102.94 Mbit/s
95th percentile per-packet one-way delay: 55.984 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 224.71 Mbit/s
95th percentile per-packet one-way delay: 61.642 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 63.90 Mbit/s
95th percentile per-packet one-way delay: 58.929 ms
Loss rate: 0.02%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-06-20 11:13:35

End at: 2018-06-20 11:14:05

Local clock offset: -0.005 ms

Remote clock offset: 0.123 ms

Below is generated by plot.py at 2018-06-20 16:22:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 187.28 Mbit/s

95th percentile per-packet one-way delay: 51.789 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 99.57 Mbit/s

95th percentile per-packet one-way delay: 51.945 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 99.88 Mbit/s

95th percentile per-packet one-way delay: 51.738 ms

Loss rate: 0.00%

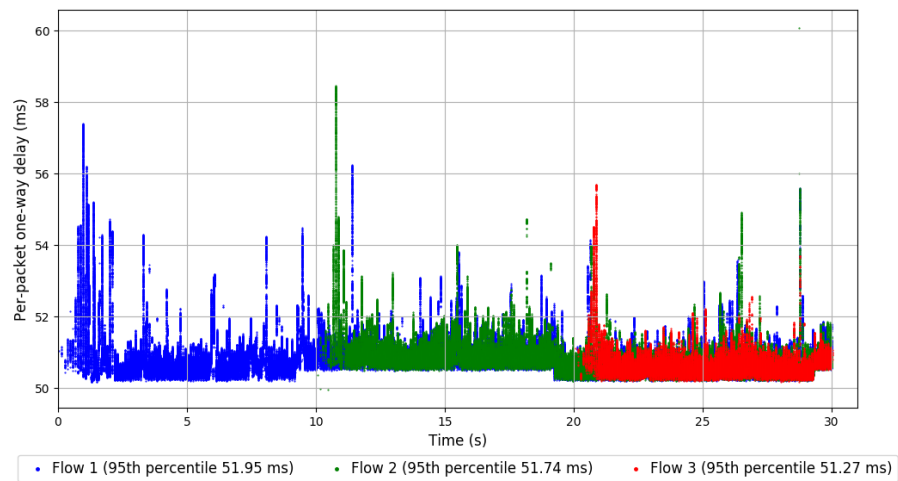
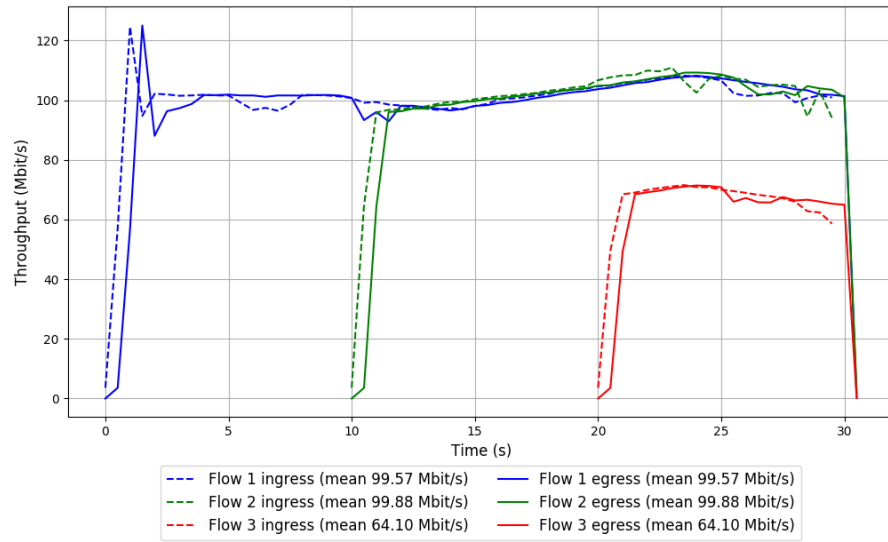
-- Flow 3:

Average throughput: 64.10 Mbit/s

95th percentile per-packet one-way delay: 51.270 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-06-20 11:36:52

End at: 2018-06-20 11:37:22

Local clock offset: -0.025 ms

Remote clock offset: 0.076 ms

Below is generated by plot.py at 2018-06-20 16:22:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 263.58 Mbit/s

95th percentile per-packet one-way delay: 51.636 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 149.96 Mbit/s

95th percentile per-packet one-way delay: 51.380 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 106.67 Mbit/s

95th percentile per-packet one-way delay: 51.596 ms

Loss rate: 0.00%

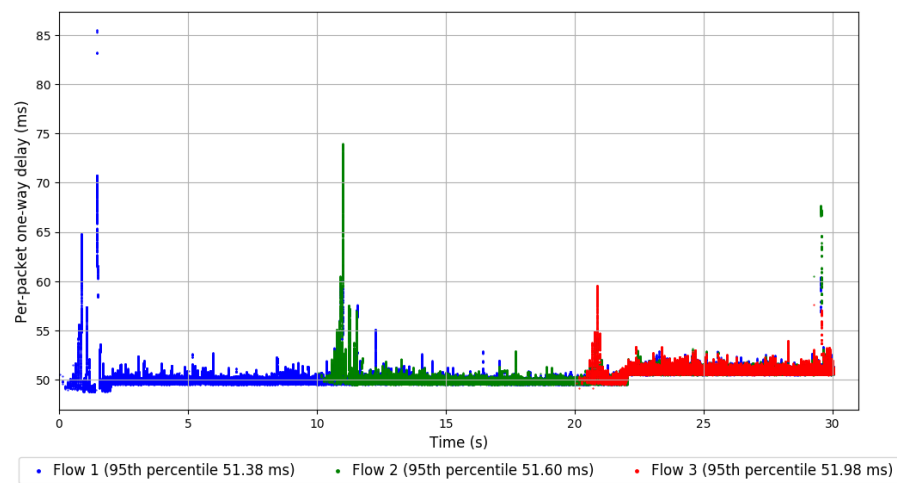
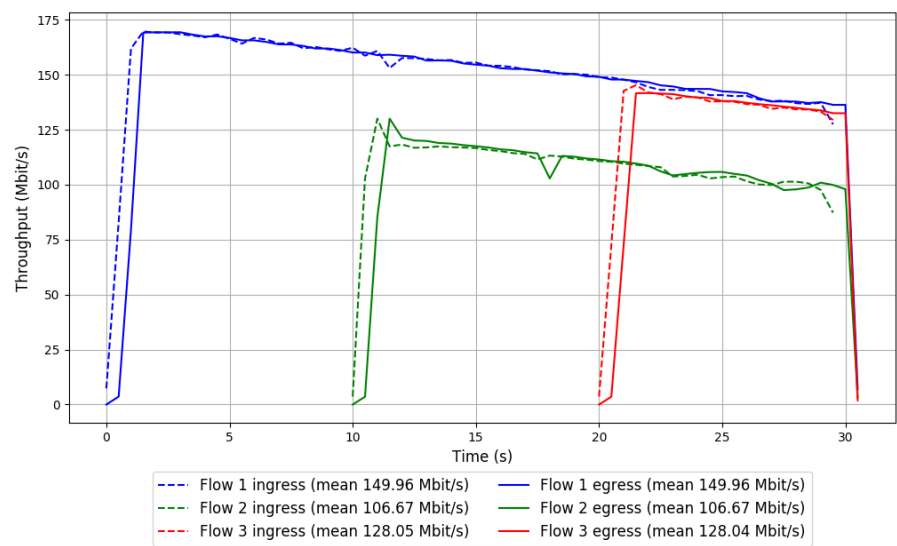
-- Flow 3:

Average throughput: 128.04 Mbit/s

95th percentile per-packet one-way delay: 51.979 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-06-20 11:59:51

End at: 2018-06-20 12:00:21

Local clock offset: -0.389 ms

Remote clock offset: 0.047 ms

Below is generated by plot.py at 2018-06-20 16:22:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 202.90 Mbit/s

95th percentile per-packet one-way delay: 51.206 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 125.28 Mbit/s

95th percentile per-packet one-way delay: 51.106 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 113.30 Mbit/s

95th percentile per-packet one-way delay: 51.384 ms

Loss rate: 0.00%

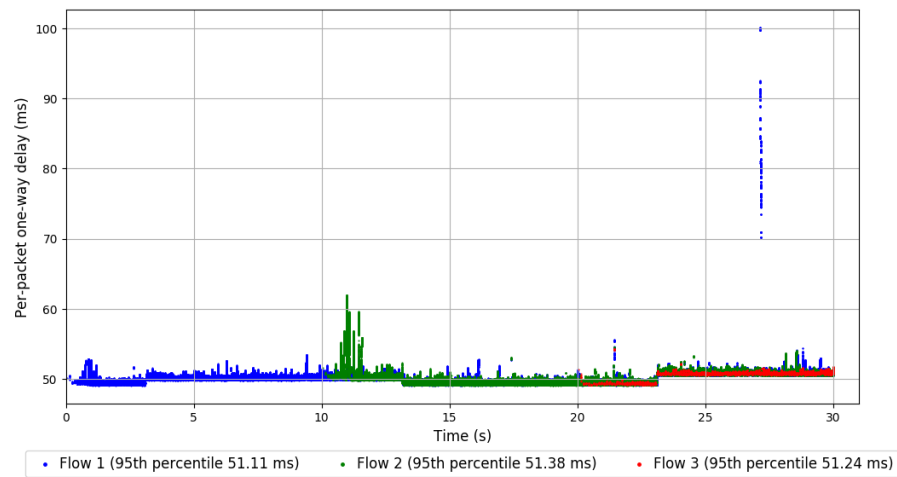
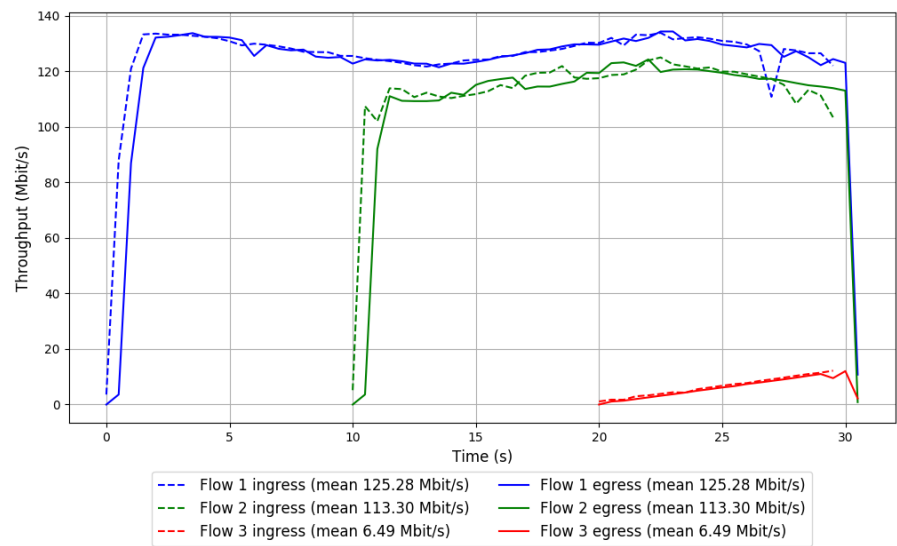
-- Flow 3:

Average throughput: 6.49 Mbit/s

95th percentile per-packet one-way delay: 51.243 ms

Loss rate: 0.02%

Run 5: Report of TCP Vegas — Data Link

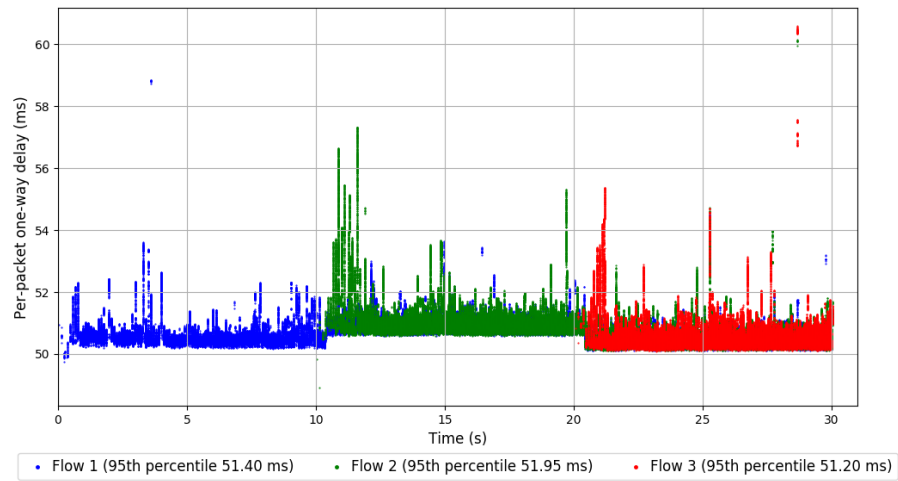
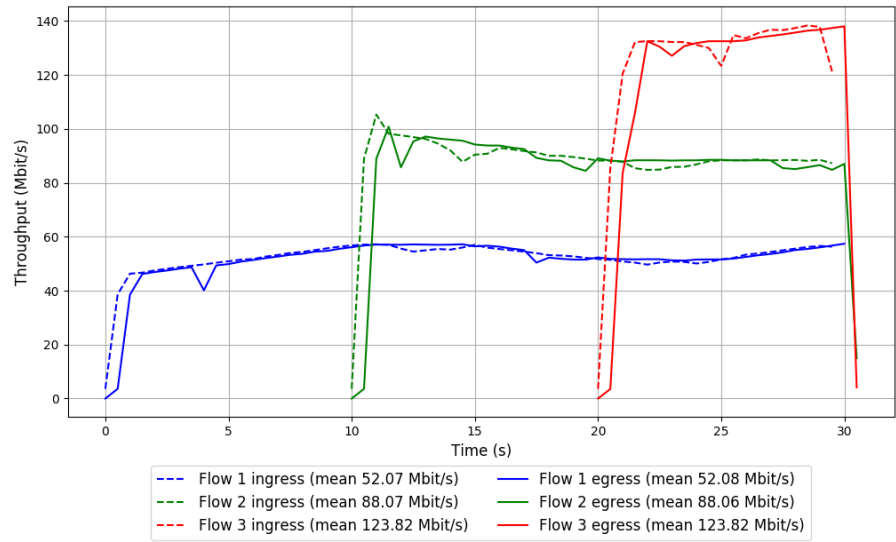


Run 6: Statistics of TCP Vegas

Start at: 2018-06-20 12:22:54
End at: 2018-06-20 12:23:24
Local clock offset: 0.065 ms
Remote clock offset: -0.033 ms

Below is generated by plot.py at 2018-06-20 16:22:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 151.85 Mbit/s
95th percentile per-packet one-way delay: 51.541 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 52.08 Mbit/s
95th percentile per-packet one-way delay: 51.397 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 88.06 Mbit/s
95th percentile per-packet one-way delay: 51.954 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 123.82 Mbit/s
95th percentile per-packet one-way delay: 51.202 ms
Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-06-20 12:45:59

End at: 2018-06-20 12:46:29

Local clock offset: 0.142 ms

Remote clock offset: -0.08 ms

Below is generated by plot.py at 2018-06-20 16:22:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 178.78 Mbit/s

95th percentile per-packet one-way delay: 51.337 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 84.46 Mbit/s

95th percentile per-packet one-way delay: 51.366 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 138.79 Mbit/s

95th percentile per-packet one-way delay: 51.330 ms

Loss rate: 0.00%

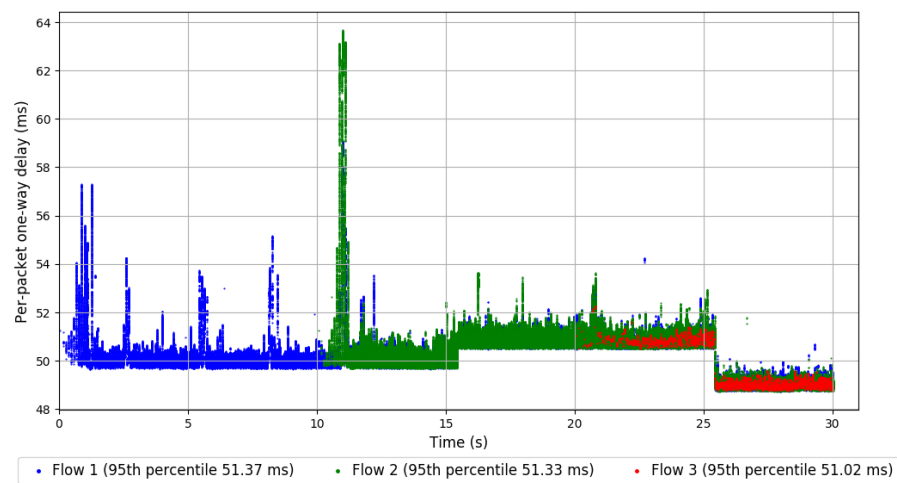
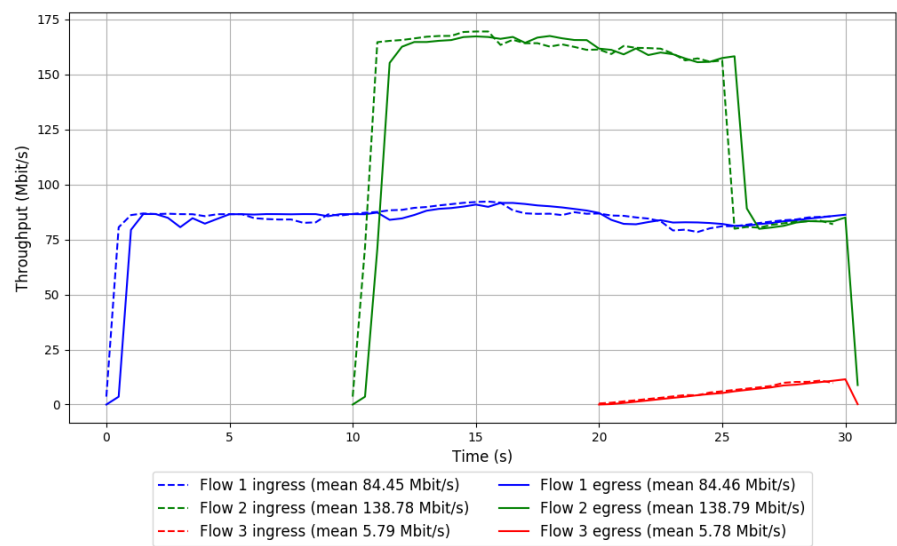
-- Flow 3:

Average throughput: 5.78 Mbit/s

95th percentile per-packet one-way delay: 51.020 ms

Loss rate: 0.19%

Run 7: Report of TCP Vegas — Data Link

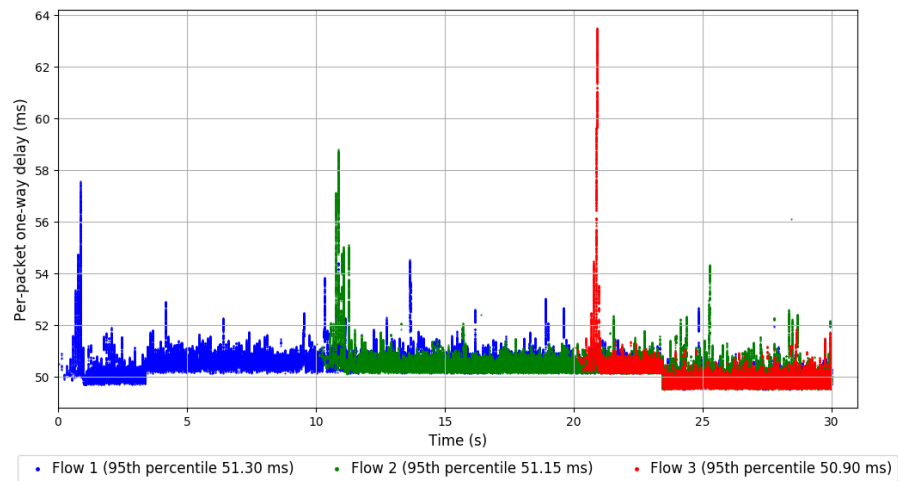
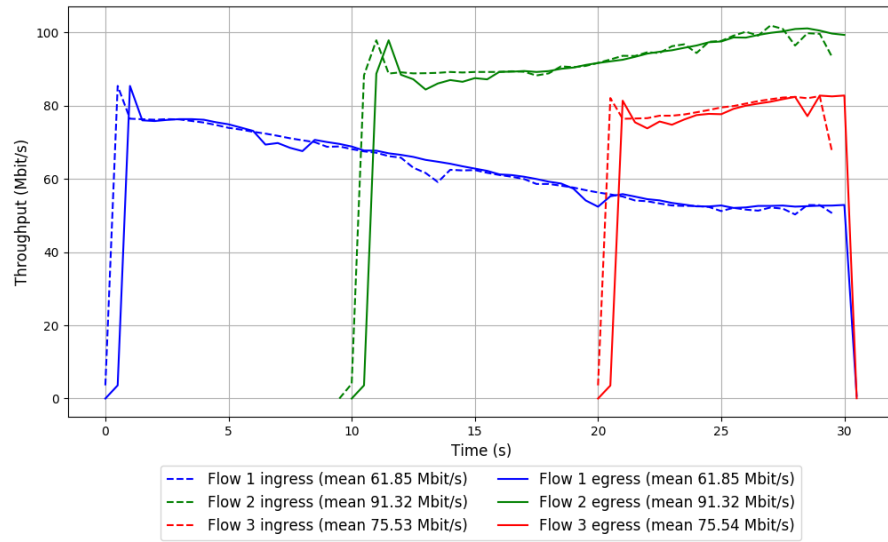


Run 8: Statistics of TCP Vegas

Start at: 2018-06-20 13:08:51
End at: 2018-06-20 13:09:21
Local clock offset: 0.109 ms
Remote clock offset: -0.007 ms

Below is generated by plot.py at 2018-06-20 16:22:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 147.75 Mbit/s
95th percentile per-packet one-way delay: 51.209 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 61.85 Mbit/s
95th percentile per-packet one-way delay: 51.303 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 91.32 Mbit/s
95th percentile per-packet one-way delay: 51.148 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 75.54 Mbit/s
95th percentile per-packet one-way delay: 50.898 ms
Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-06-20 13:31:47

End at: 2018-06-20 13:32:17

Local clock offset: 0.064 ms

Remote clock offset: 0.027 ms

Below is generated by plot.py at 2018-06-20 16:22:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 296.52 Mbit/s

95th percentile per-packet one-way delay: 58.276 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 147.53 Mbit/s

95th percentile per-packet one-way delay: 55.608 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 166.46 Mbit/s

95th percentile per-packet one-way delay: 56.080 ms

Loss rate: 0.00%

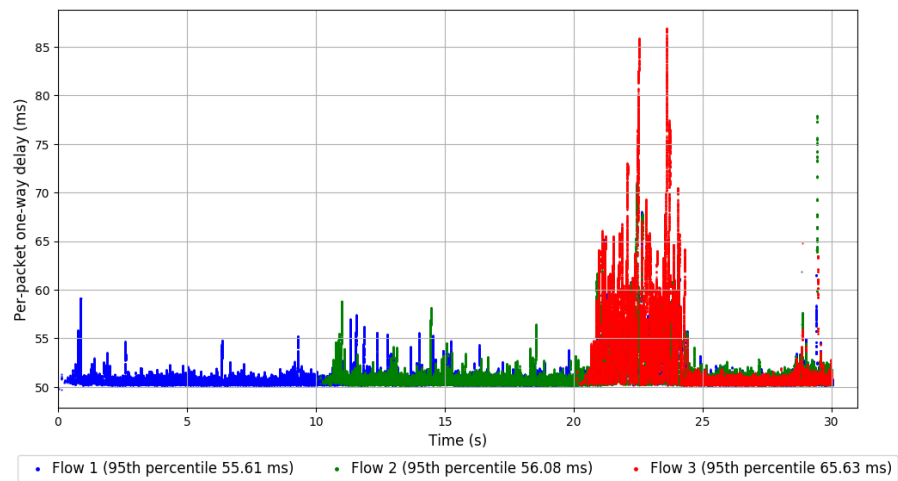
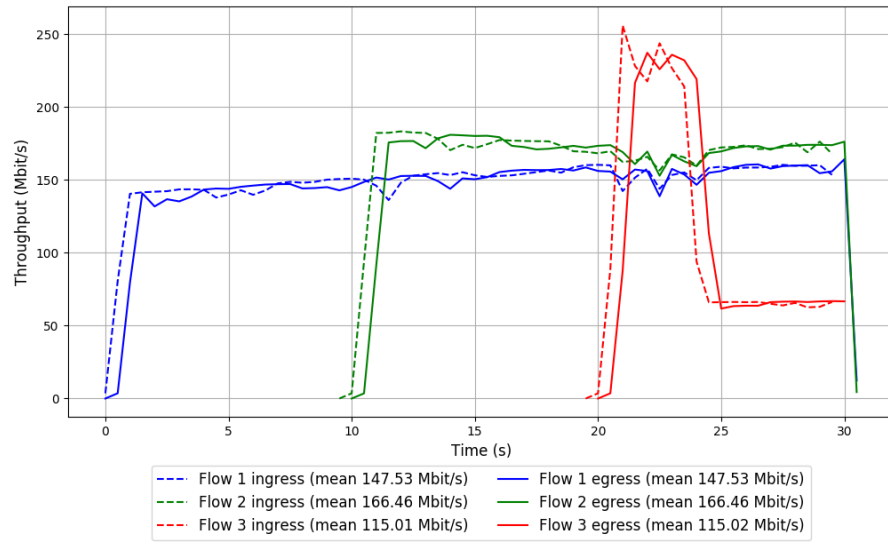
-- Flow 3:

Average throughput: 115.02 Mbit/s

95th percentile per-packet one-way delay: 65.628 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-06-20 13:54:54

End at: 2018-06-20 13:55:24

Local clock offset: 0.012 ms

Remote clock offset: 0.032 ms

Below is generated by plot.py at 2018-06-20 16:22:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 141.41 Mbit/s

95th percentile per-packet one-way delay: 52.139 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 67.75 Mbit/s

95th percentile per-packet one-way delay: 51.477 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 68.26 Mbit/s

95th percentile per-packet one-way delay: 53.459 ms

Loss rate: 0.00%

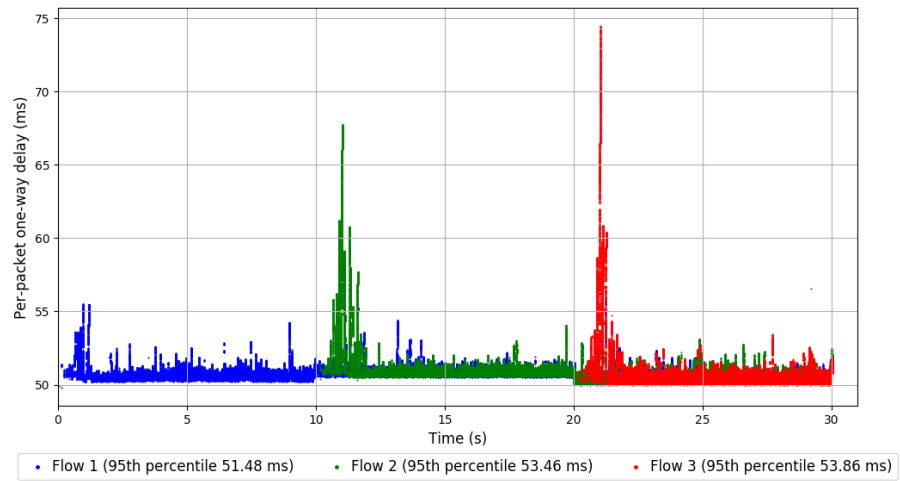
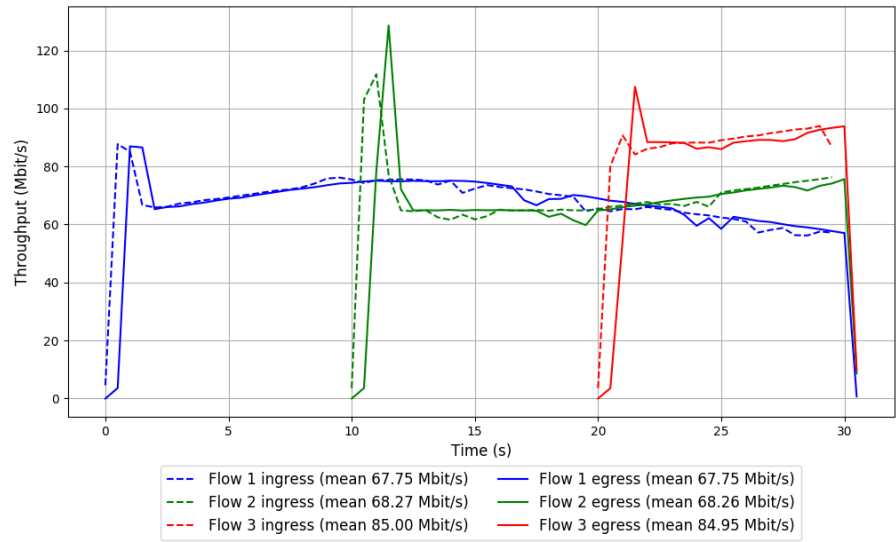
-- Flow 3:

Average throughput: 84.95 Mbit/s

95th percentile per-packet one-way delay: 53.863 ms

Loss rate: 0.07%

Run 10: Report of TCP Vegas — Data Link

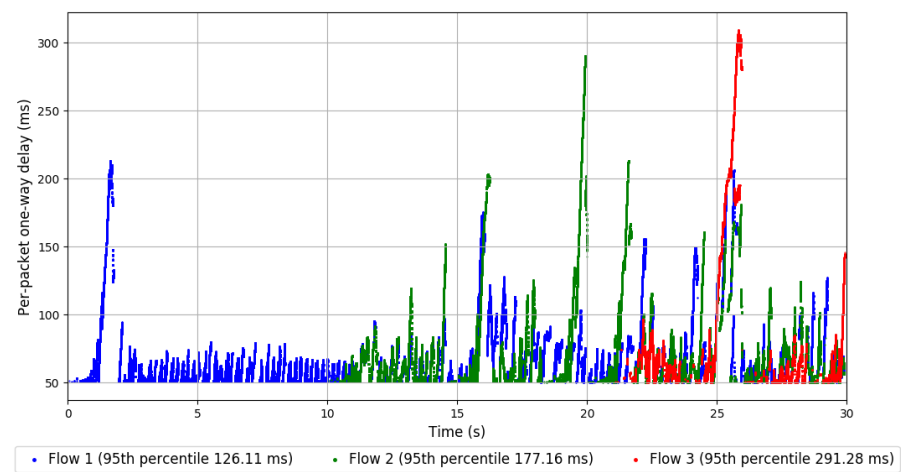
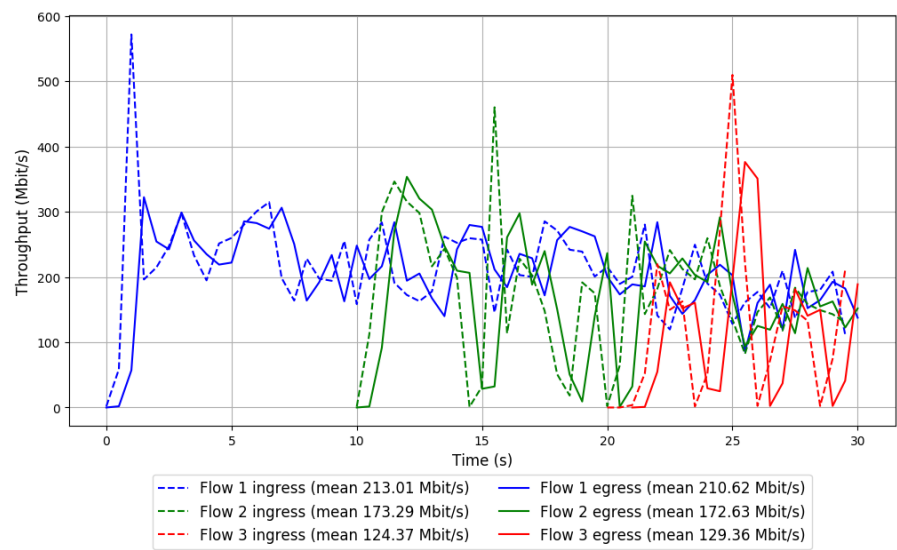


Run 1: Statistics of Verus

Start at: 2018-06-20 10:17:06
End at: 2018-06-20 10:17:36
Local clock offset: -0.006 ms
Remote clock offset: -0.021 ms

Below is generated by plot.py at 2018-06-20 16:23:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 363.39 Mbit/s
95th percentile per-packet one-way delay: 173.754 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 210.62 Mbit/s
95th percentile per-packet one-way delay: 126.110 ms
Loss rate: 1.08%
-- Flow 2:
Average throughput: 172.63 Mbit/s
95th percentile per-packet one-way delay: 177.158 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 129.36 Mbit/s
95th percentile per-packet one-way delay: 291.280 ms
Loss rate: 6.66%

Run 1: Report of Verus — Data Link

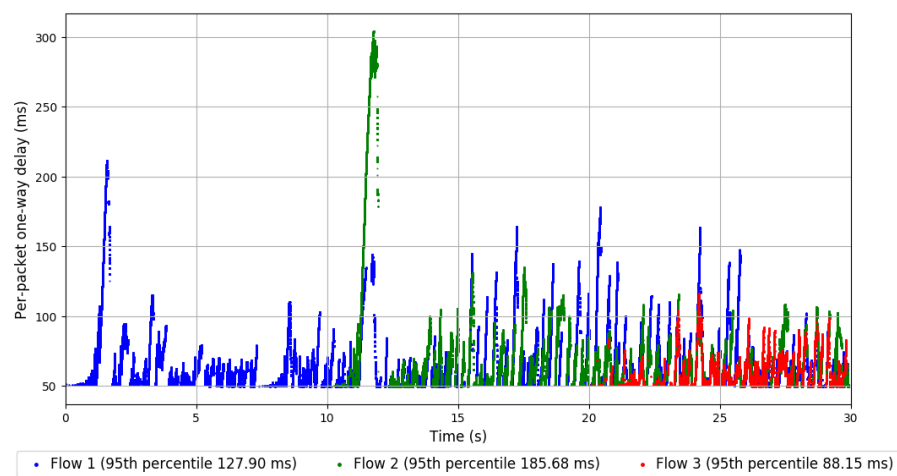
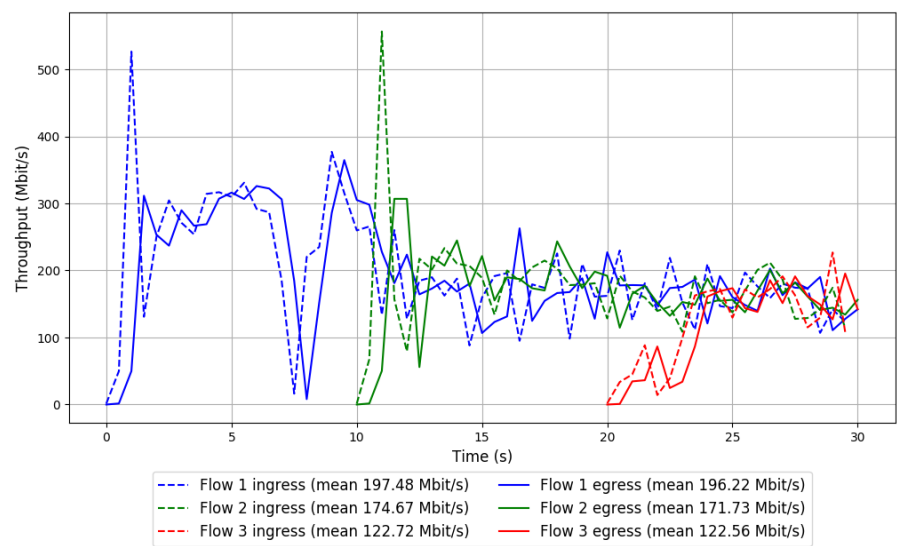


Run 2: Statistics of Verus

Start at: 2018-06-20 10:40:19
End at: 2018-06-20 10:40:49
Local clock offset: -0.031 ms
Remote clock offset: 0.101 ms

Below is generated by plot.py at 2018-06-20 16:23:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 350.46 Mbit/s
95th percentile per-packet one-way delay: 127.344 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 196.22 Mbit/s
95th percentile per-packet one-way delay: 127.898 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 171.73 Mbit/s
95th percentile per-packet one-way delay: 185.680 ms
Loss rate: 1.69%
-- Flow 3:
Average throughput: 122.56 Mbit/s
95th percentile per-packet one-way delay: 88.153 ms
Loss rate: 0.00%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-06-20 11:03:30

End at: 2018-06-20 11:04:00

Local clock offset: 0.006 ms

Remote clock offset: 0.163 ms

Below is generated by plot.py at 2018-06-20 16:23:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 379.44 Mbit/s

95th percentile per-packet one-way delay: 115.510 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 224.55 Mbit/s

95th percentile per-packet one-way delay: 128.332 ms

Loss rate: 1.44%

-- Flow 2:

Average throughput: 178.06 Mbit/s

95th percentile per-packet one-way delay: 101.994 ms

Loss rate: 0.32%

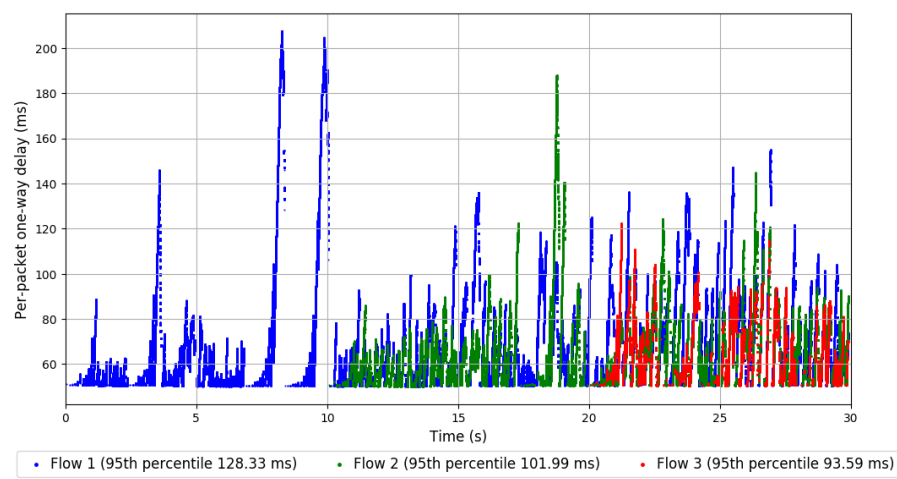
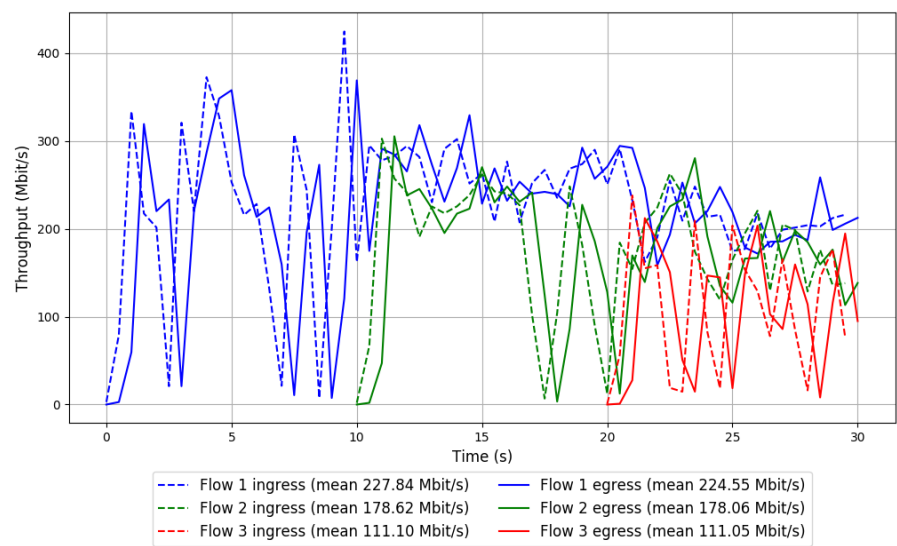
-- Flow 3:

Average throughput: 111.05 Mbit/s

95th percentile per-packet one-way delay: 93.589 ms

Loss rate: 0.06%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-06-20 11:26:54

End at: 2018-06-20 11:27:24

Local clock offset: -0.363 ms

Remote clock offset: 0.064 ms

Below is generated by plot.py at 2018-06-20 16:23:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 354.90 Mbit/s

95th percentile per-packet one-way delay: 158.645 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 185.20 Mbit/s

95th percentile per-packet one-way delay: 119.163 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 185.48 Mbit/s

95th percentile per-packet one-way delay: 129.523 ms

Loss rate: 0.07%

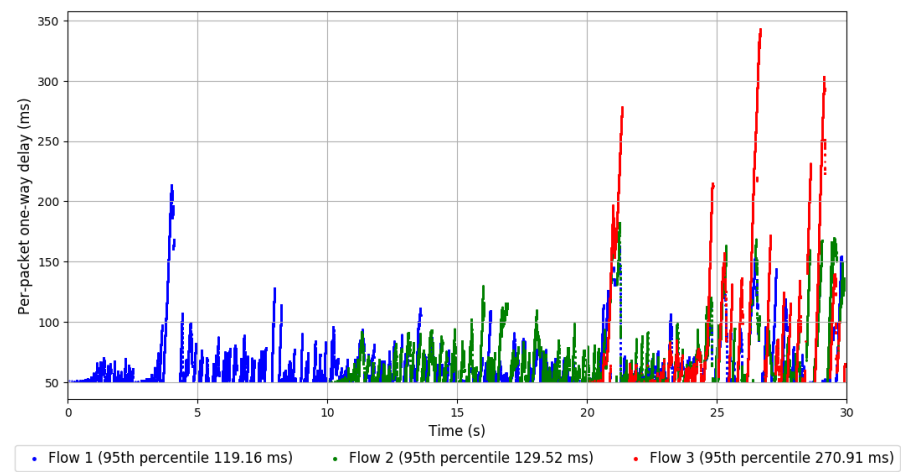
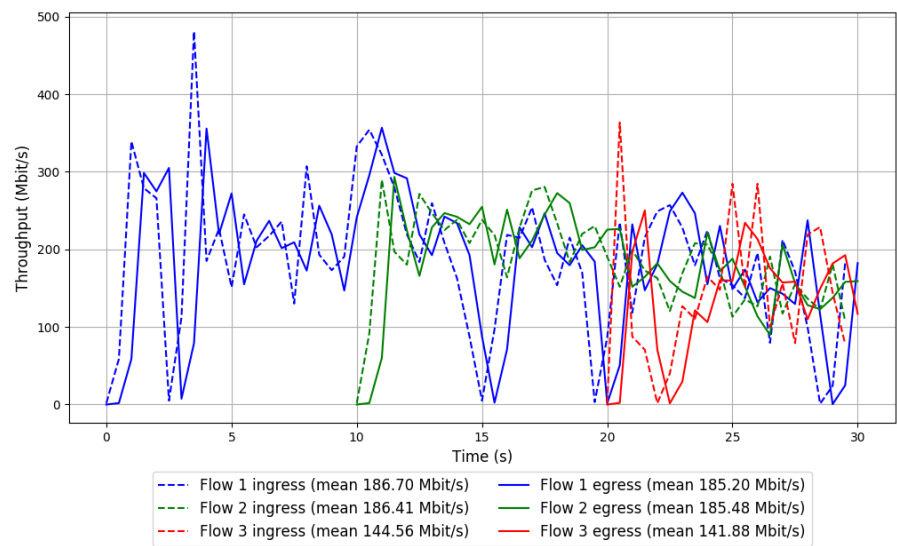
-- Flow 3:

Average throughput: 141.88 Mbit/s

95th percentile per-packet one-way delay: 270.914 ms

Loss rate: 1.85%

Run 4: Report of Verus — Data Link

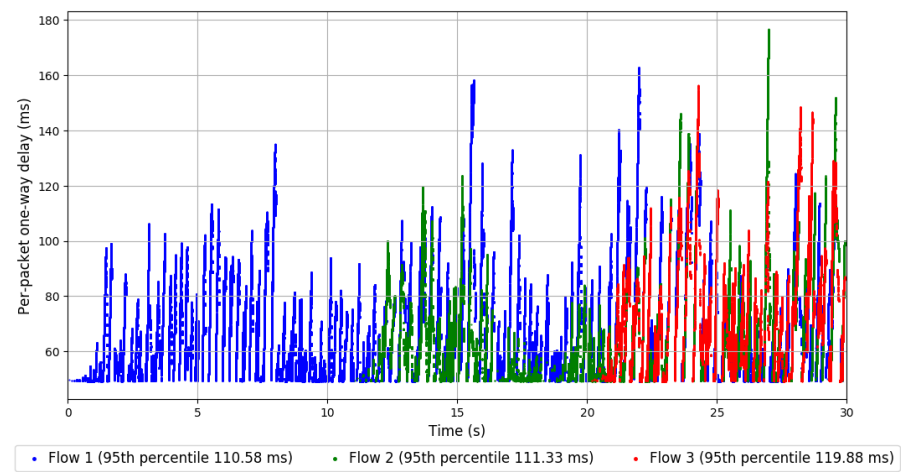
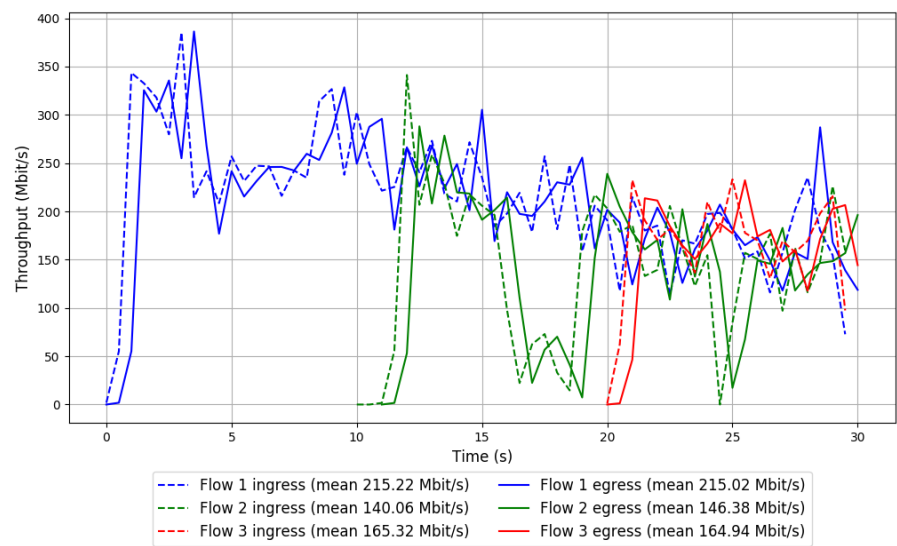


Run 5: Statistics of Verus

Start at: 2018-06-20 11:49:54
End at: 2018-06-20 11:50:24
Local clock offset: -0.443 ms
Remote clock offset: 0.089 ms

Below is generated by plot.py at 2018-06-20 16:25:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 361.45 Mbit/s
95th percentile per-packet one-way delay: 112.737 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 215.02 Mbit/s
95th percentile per-packet one-way delay: 110.581 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 146.38 Mbit/s
95th percentile per-packet one-way delay: 111.331 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 164.94 Mbit/s
95th percentile per-packet one-way delay: 119.883 ms
Loss rate: 0.14%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-06-20 12:13:00

End at: 2018-06-20 12:13:30

Local clock offset: -0.027 ms

Remote clock offset: 0.058 ms

Below is generated by plot.py at 2018-06-20 16:26:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 399.54 Mbit/s

95th percentile per-packet one-way delay: 112.686 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 227.02 Mbit/s

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

Loss rate: 0.13%

-- Flow 2:

Average throughput: 176.17 Mbit/s

95th percentile per-packet one-way delay: 117.182 ms

Loss rate: 0.00%

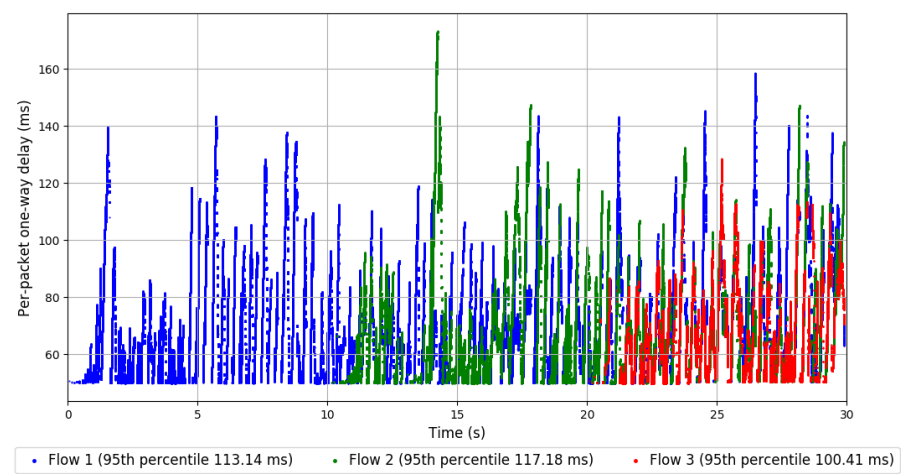
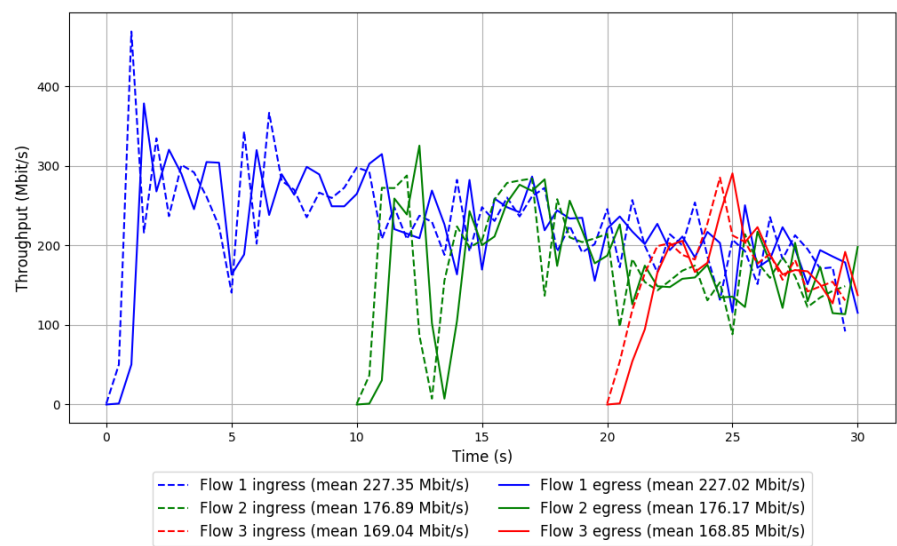
-- Flow 3:

Average throughput: 168.85 Mbit/s

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

Loss rate: 0.14%

Run 6: Report of Verus — Data Link

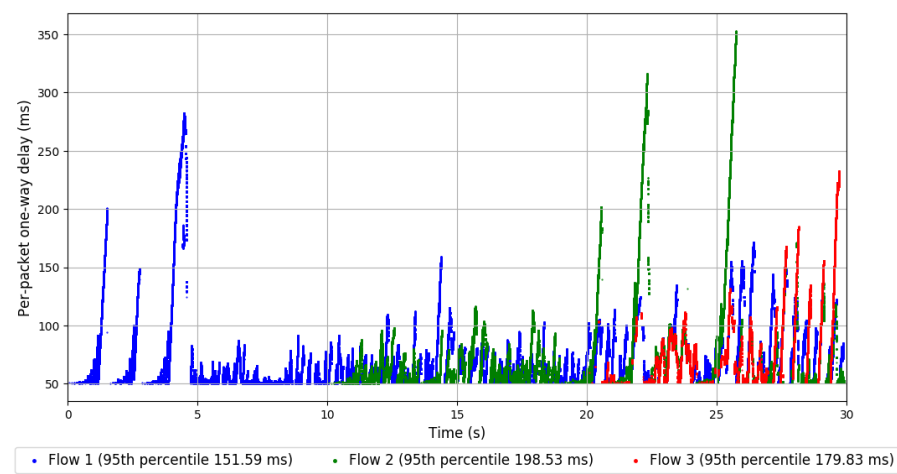
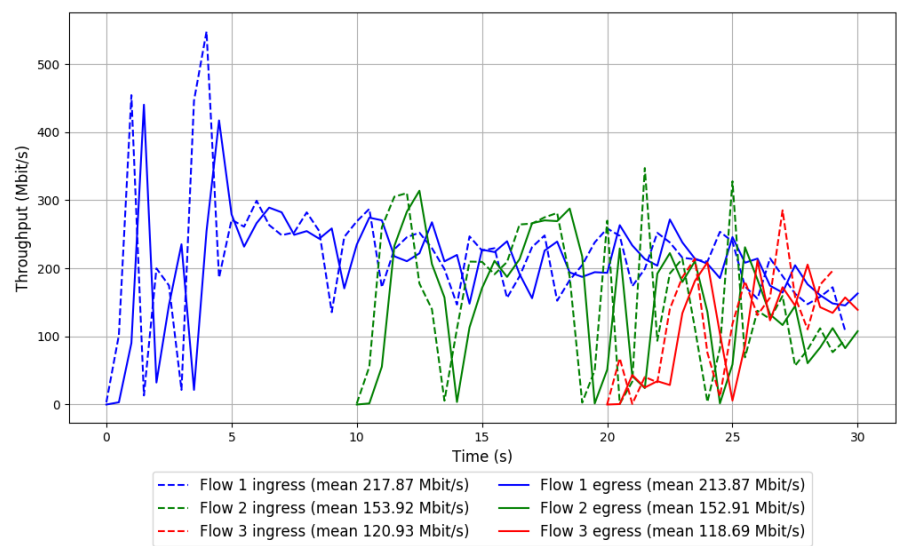


Run 7: Statistics of Verus

Start at: 2018-06-20 12:36:12
End at: 2018-06-20 12:36:42
Local clock offset: -0.295 ms
Remote clock offset: -0.064 ms

Below is generated by plot.py at 2018-06-20 16:26:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 353.53 Mbit/s
95th percentile per-packet one-way delay: 167.461 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 213.87 Mbit/s
95th percentile per-packet one-way delay: 151.589 ms
Loss rate: 1.77%
-- Flow 2:
Average throughput: 152.91 Mbit/s
95th percentile per-packet one-way delay: 198.528 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 118.69 Mbit/s
95th percentile per-packet one-way delay: 179.832 ms
Loss rate: 0.06%

Run 7: Report of Verus — Data Link

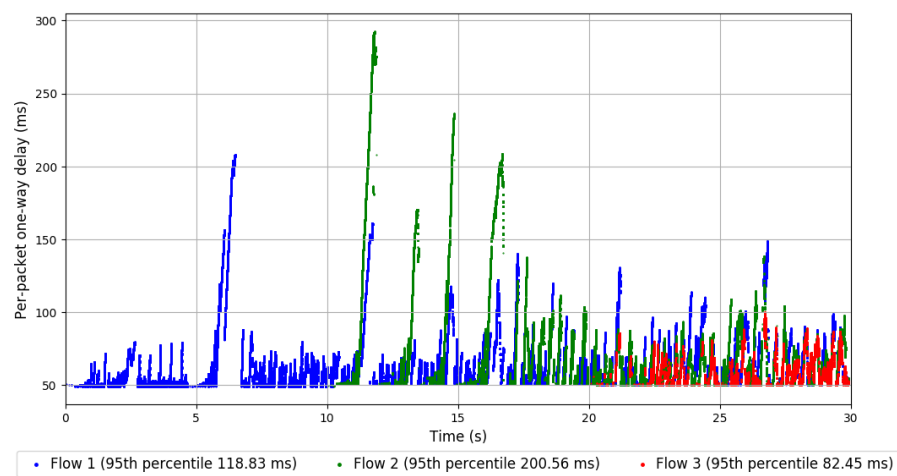
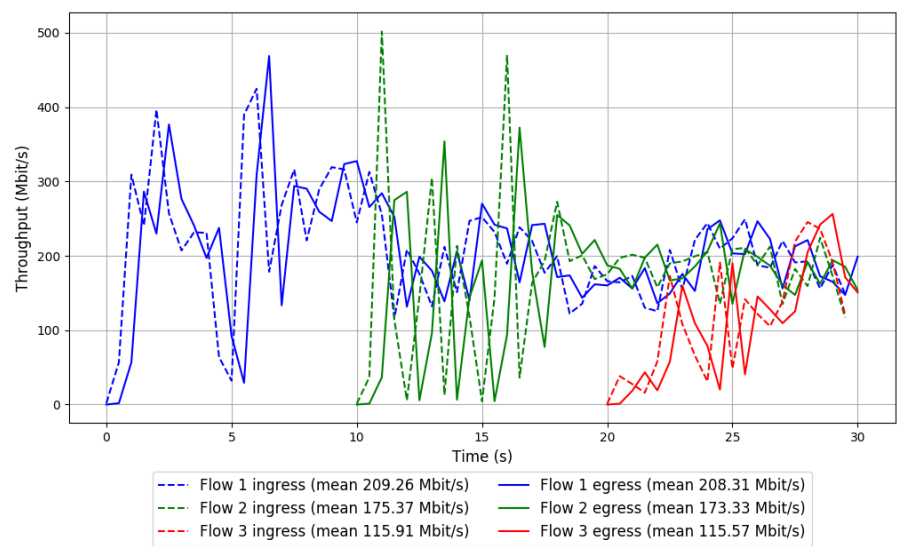


Run 8: Statistics of Verus

Start at: 2018-06-20 12:59:04
End at: 2018-06-20 12:59:34
Local clock offset: 0.082 ms
Remote clock offset: -0.048 ms

Below is generated by plot.py at 2018-06-20 16:28:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 361.56 Mbit/s
95th percentile per-packet one-way delay: 154.889 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 208.31 Mbit/s
95th percentile per-packet one-way delay: 118.826 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 173.33 Mbit/s
95th percentile per-packet one-way delay: 200.565 ms
Loss rate: 1.16%
-- Flow 3:
Average throughput: 115.57 Mbit/s
95th percentile per-packet one-way delay: 82.451 ms
Loss rate: 0.30%

Run 8: Report of Verus — Data Link

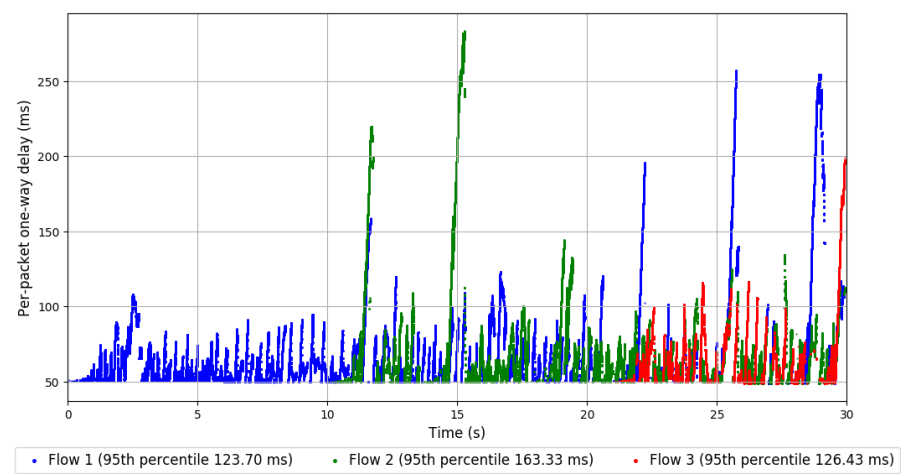
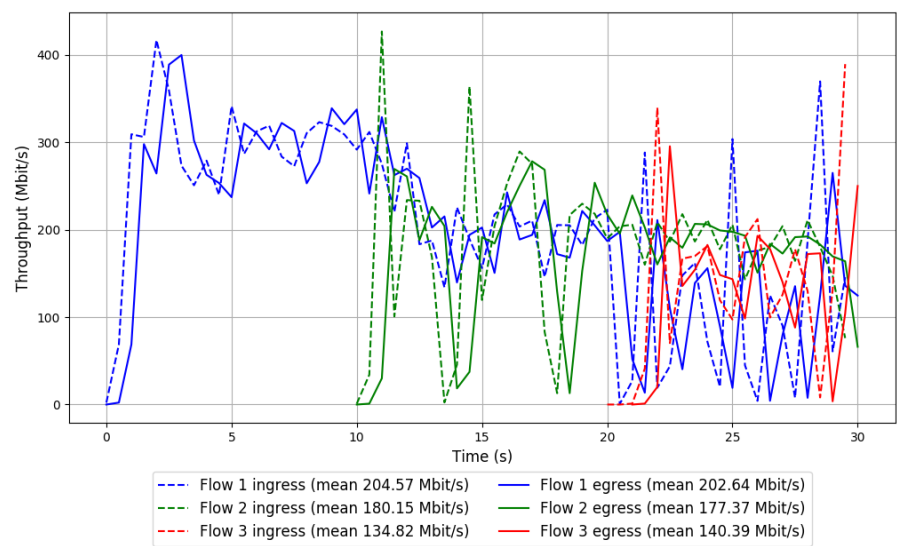


Run 9: Statistics of Verus

Start at: 2018-06-20 13:21:58
End at: 2018-06-20 13:22:28
Local clock offset: 0.109 ms
Remote clock offset: -0.055 ms

Below is generated by plot.py at 2018-06-20 16:29:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 362.04 Mbit/s
95th percentile per-packet one-way delay: 136.764 ms
Loss rate: 1.79%
-- Flow 1:
Average throughput: 202.64 Mbit/s
95th percentile per-packet one-way delay: 123.697 ms
Loss rate: 0.93%
-- Flow 2:
Average throughput: 177.37 Mbit/s
95th percentile per-packet one-way delay: 163.329 ms
Loss rate: 1.54%
-- Flow 3:
Average throughput: 140.39 Mbit/s
95th percentile per-packet one-way delay: 126.429 ms
Loss rate: 6.44%

Run 9: Report of Verus — Data Link

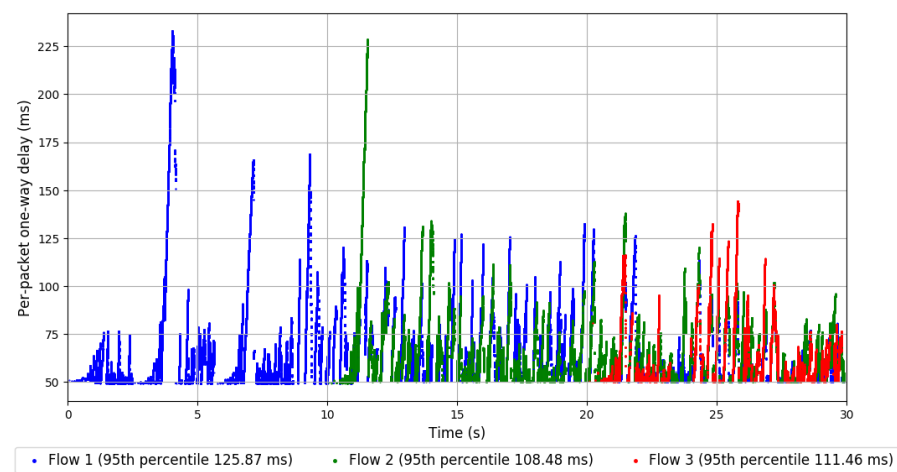
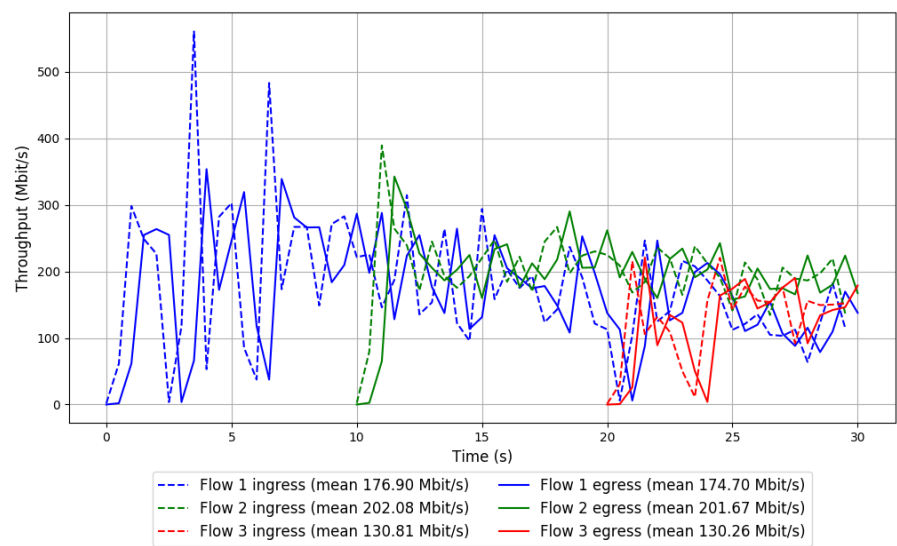


Run 10: Statistics of Verus

Start at: 2018-06-20 13:45:03
End at: 2018-06-20 13:45:33
Local clock offset: -0.381 ms
Remote clock offset: -0.015 ms

Below is generated by plot.py at 2018-06-20 16:29:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 351.15 Mbit/s
95th percentile per-packet one-way delay: 118.405 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 174.70 Mbit/s
95th percentile per-packet one-way delay: 125.870 ms
Loss rate: 1.25%
-- Flow 2:
Average throughput: 201.67 Mbit/s
95th percentile per-packet one-way delay: 108.482 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 130.26 Mbit/s
95th percentile per-packet one-way delay: 111.457 ms
Loss rate: 0.25%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-06-20 10:22:20

End at: 2018-06-20 10:22:50

Local clock offset: -0.393 ms

Remote clock offset: 0.054 ms

Below is generated by plot.py at 2018-06-20 16:32:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 466.65 Mbit/s

95th percentile per-packet one-way delay: 153.609 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 282.91 Mbit/s

95th percentile per-packet one-way delay: 210.535 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 220.84 Mbit/s

95th percentile per-packet one-way delay: 60.182 ms

Loss rate: 0.00%

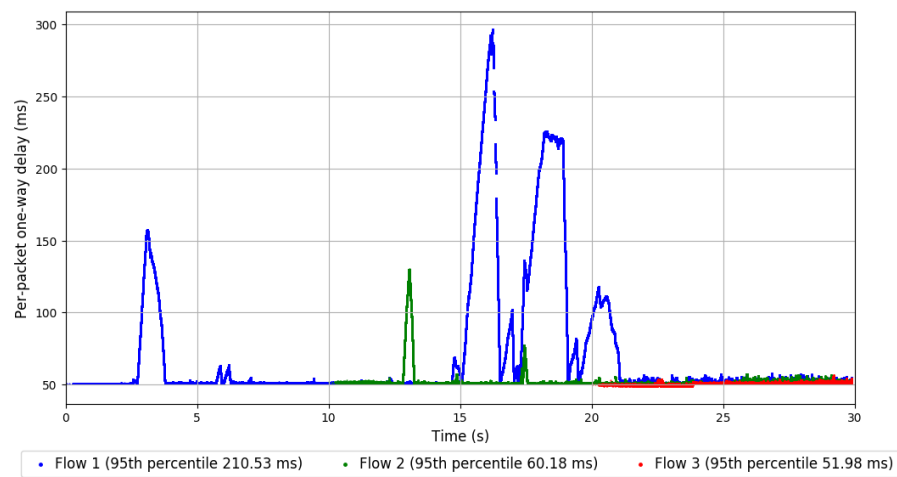
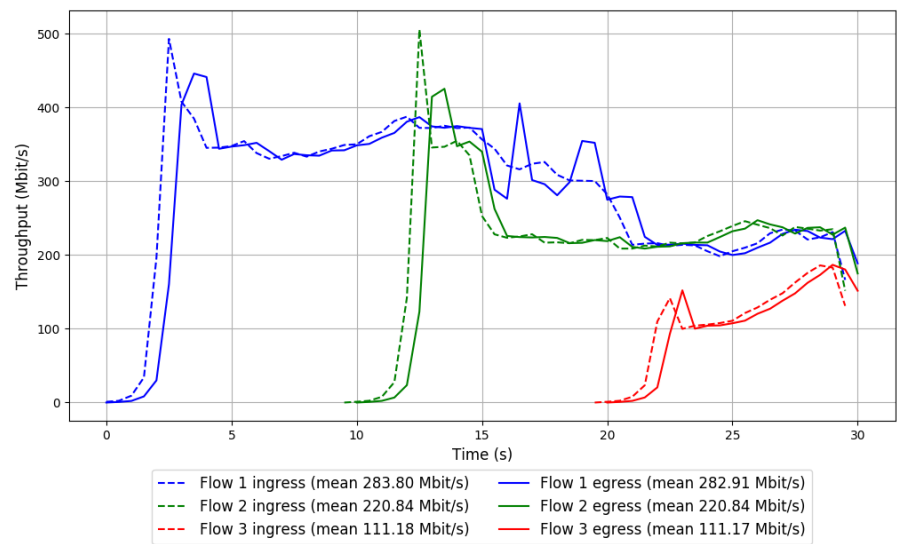
-- Flow 3:

Average throughput: 111.17 Mbit/s

95th percentile per-packet one-way delay: 51.985 ms

Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-06-20 10:45:28

End at: 2018-06-20 10:45:58

Local clock offset: -0.015 ms

Remote clock offset: 0.171 ms

Below is generated by plot.py at 2018-06-20 16:32:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 426.80 Mbit/s

95th percentile per-packet one-way delay: 57.954 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 280.09 Mbit/s

95th percentile per-packet one-way delay: 63.548 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 164.97 Mbit/s

95th percentile per-packet one-way delay: 53.590 ms

Loss rate: 0.00%

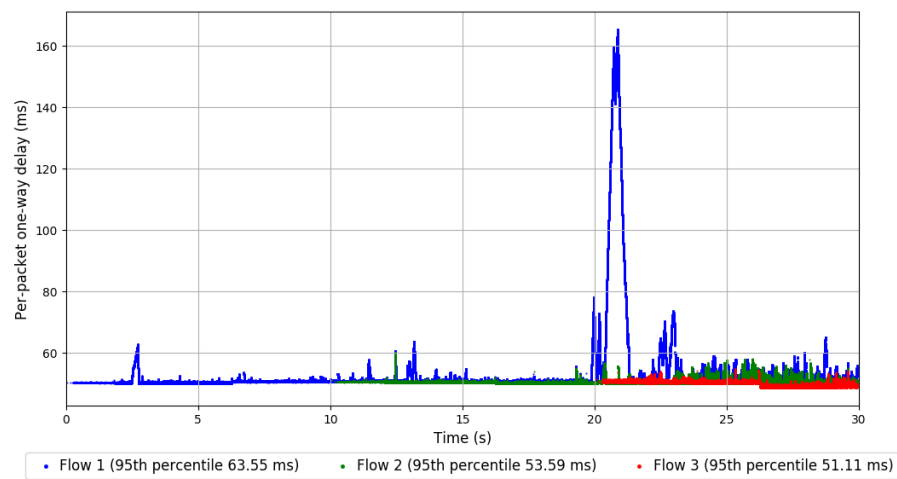
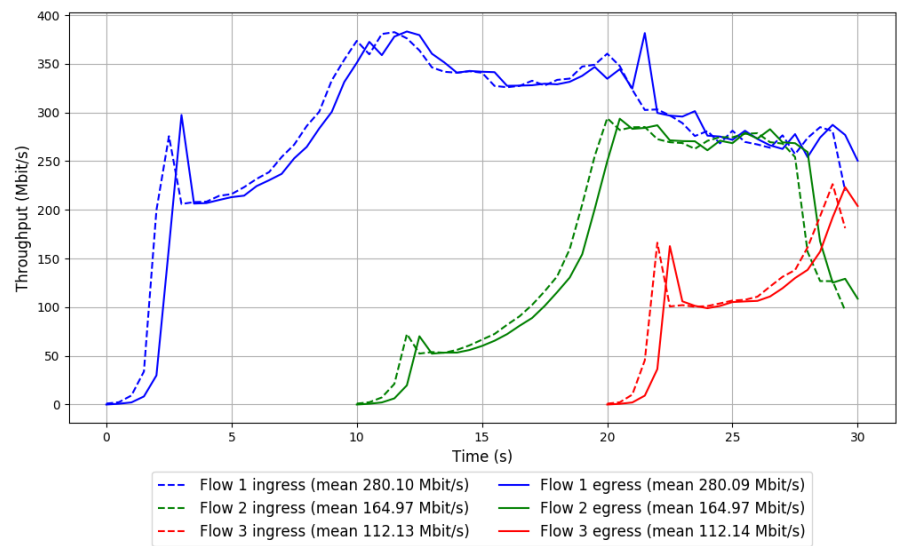
-- Flow 3:

Average throughput: 112.14 Mbit/s

95th percentile per-packet one-way delay: 51.109 ms

Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-06-20 11:08:48

End at: 2018-06-20 11:09:18

Local clock offset: -0.38 ms

Remote clock offset: 0.161 ms

Below is generated by plot.py at 2018-06-20 16:35:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 528.08 Mbit/s

95th percentile per-packet one-way delay: 181.538 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 294.32 Mbit/s

95th percentile per-packet one-way delay: 154.467 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 253.26 Mbit/s

95th percentile per-packet one-way delay: 207.490 ms

Loss rate: 1.79%

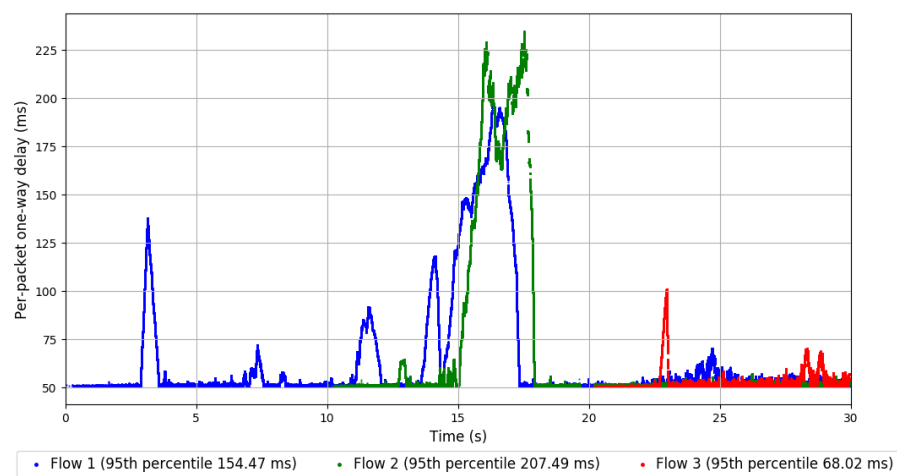
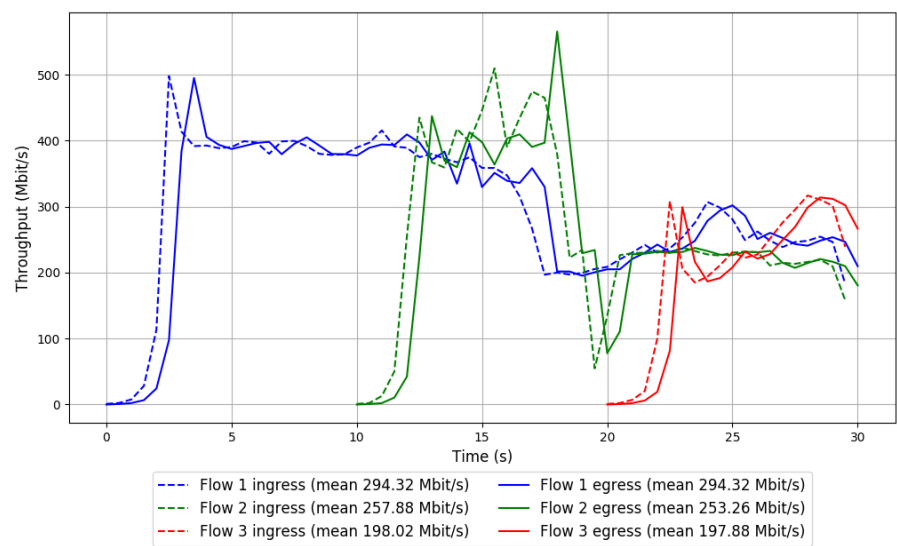
-- Flow 3:

Average throughput: 197.88 Mbit/s

95th percentile per-packet one-way delay: 68.021 ms

Loss rate: 0.06%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-06-20 11:32:04

End at: 2018-06-20 11:32:34

Local clock offset: -0.427 ms

Remote clock offset: 0.067 ms

Below is generated by plot.py at 2018-06-20 16:36:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 517.33 Mbit/s

95th percentile per-packet one-way delay: 122.557 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 299.26 Mbit/s

95th percentile per-packet one-way delay: 176.828 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 288.61 Mbit/s

95th percentile per-packet one-way delay: 94.515 ms

Loss rate: 0.00%

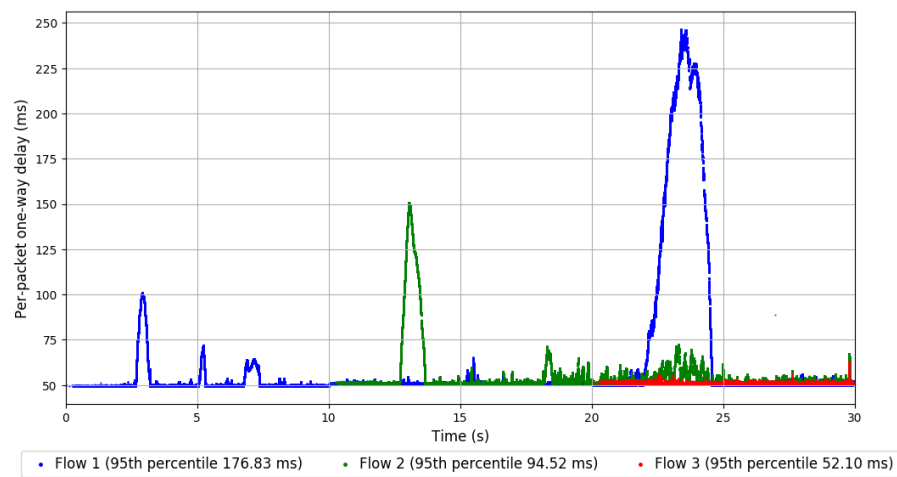
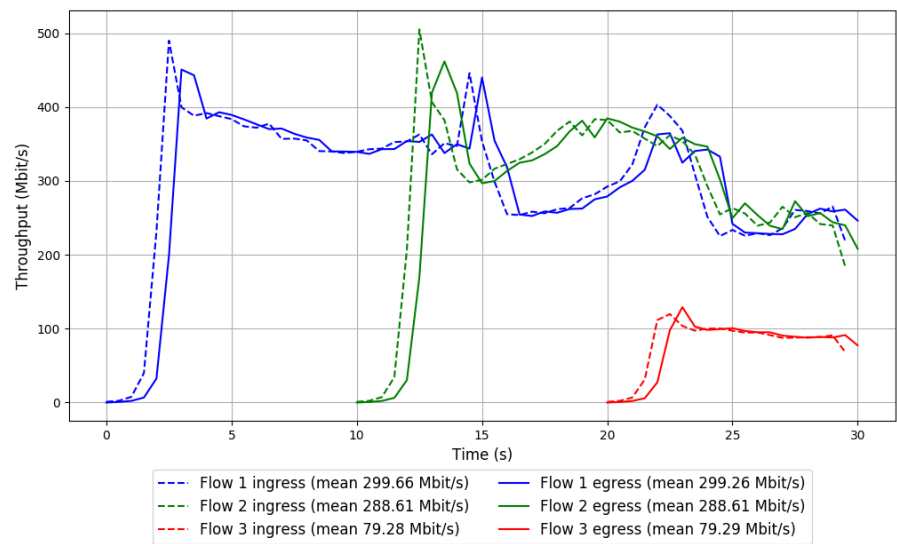
-- Flow 3:

Average throughput: 79.29 Mbit/s

95th percentile per-packet one-way delay: 52.097 ms

Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-06-20 11:55:03

End at: 2018-06-20 11:55:33

Local clock offset: -0.049 ms

Remote clock offset: 0.059 ms

Below is generated by plot.py at 2018-06-20 16:36:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 473.36 Mbit/s

95th percentile per-packet one-way delay: 141.046 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 264.62 Mbit/s

95th percentile per-packet one-way delay: 207.054 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 236.00 Mbit/s

95th percentile per-packet one-way delay: 61.865 ms

Loss rate: 0.01%

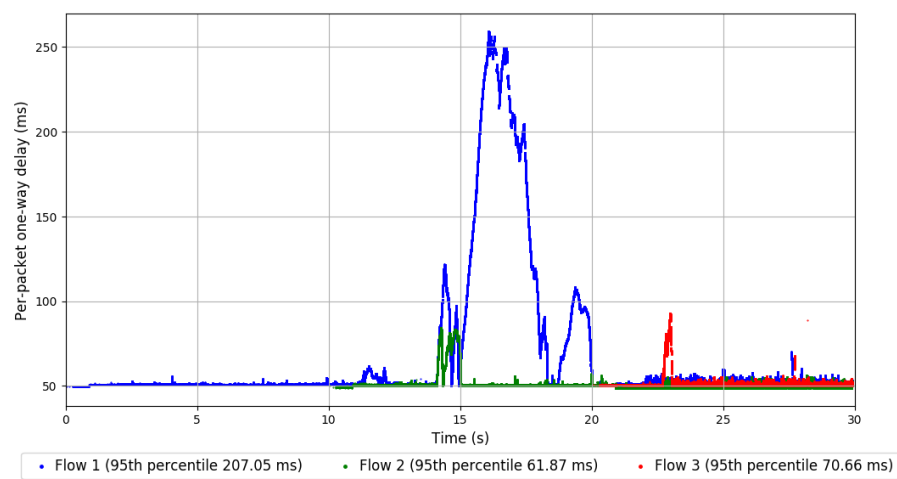
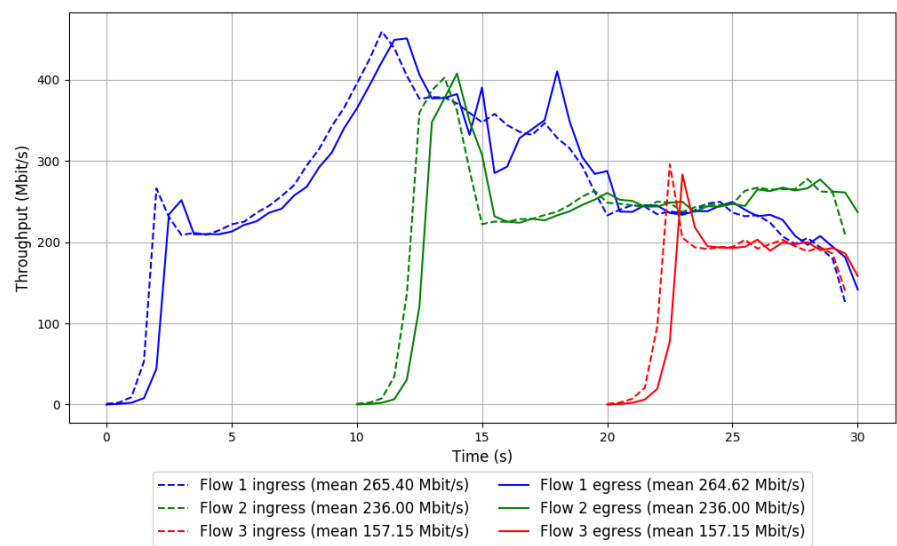
-- Flow 3:

Average throughput: 157.15 Mbit/s

95th percentile per-packet one-way delay: 70.656 ms

Loss rate: 0.01%

Run 5: Report of PCC-Vivace — Data Link

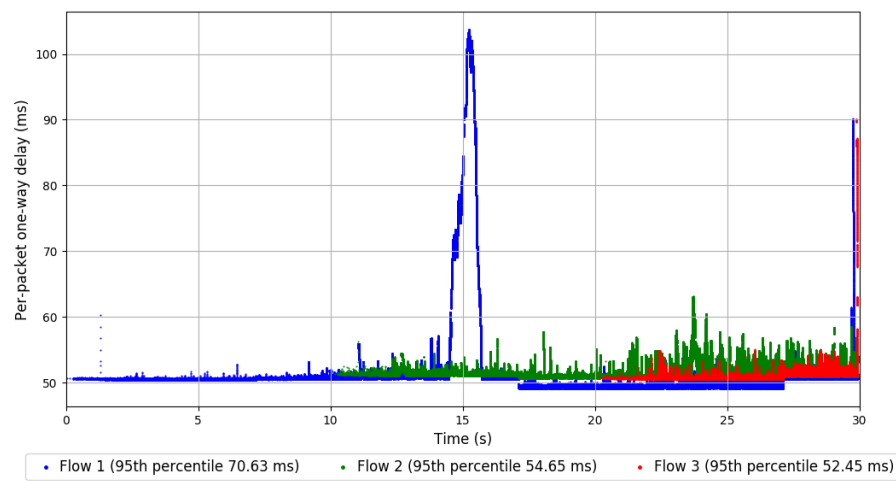
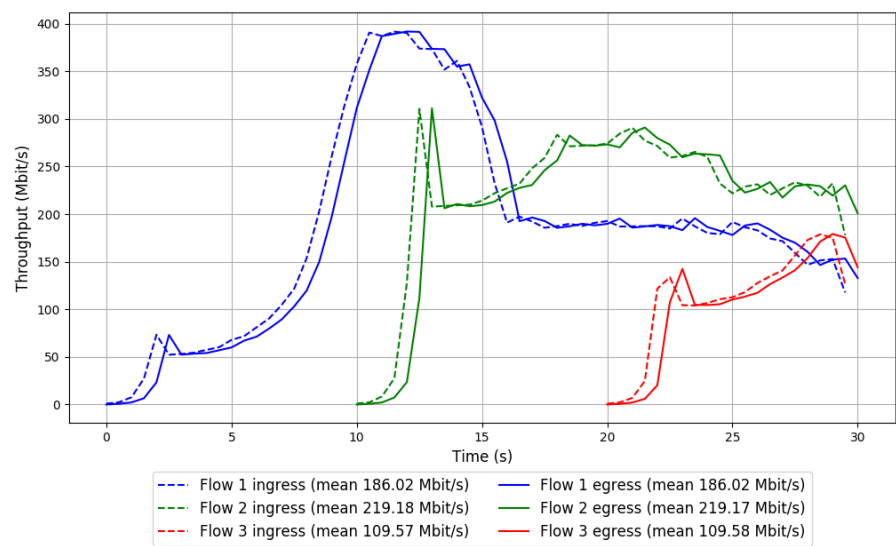


Run 6: Statistics of PCC-Vivace

Start at: 2018-06-20 12:18:17
End at: 2018-06-20 12:18:47
Local clock offset: -0.371 ms
Remote clock offset: -0.018 ms

Below is generated by plot.py at 2018-06-20 16:36:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 367.89 Mbit/s
95th percentile per-packet one-way delay: 55.319 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 186.02 Mbit/s
95th percentile per-packet one-way delay: 70.627 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 219.17 Mbit/s
95th percentile per-packet one-way delay: 54.646 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 109.58 Mbit/s
95th percentile per-packet one-way delay: 52.447 ms
Loss rate: 0.02%

Run 6: Report of PCC-Vivace — Data Link

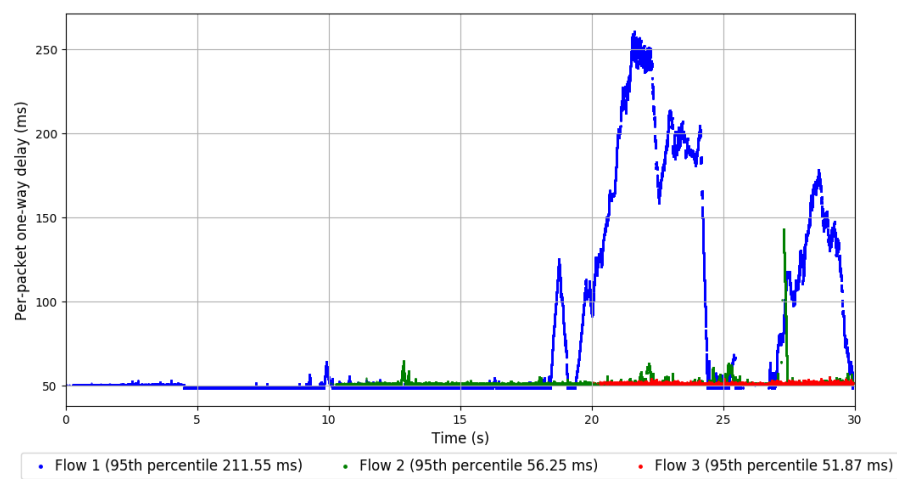
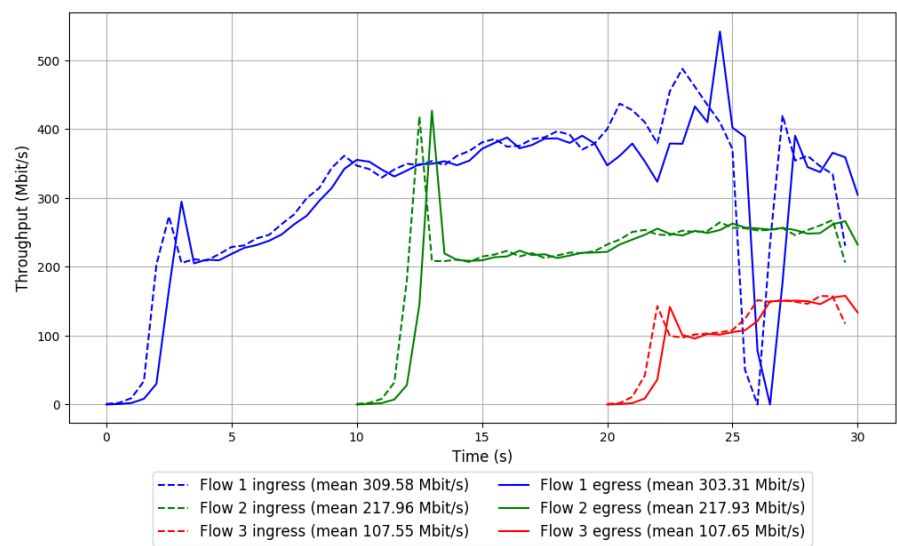


Run 7: Statistics of PCC-Vivace

Start at: 2018-06-20 12:41:20
End at: 2018-06-20 12:41:50
Local clock offset: 0.446 ms
Remote clock offset: -0.136 ms

Below is generated by plot.py at 2018-06-20 16:37:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 483.69 Mbit/s
95th percentile per-packet one-way delay: 195.508 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 303.31 Mbit/s
95th percentile per-packet one-way delay: 211.547 ms
Loss rate: 2.03%
-- Flow 2:
Average throughput: 217.93 Mbit/s
95th percentile per-packet one-way delay: 56.247 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 107.65 Mbit/s
95th percentile per-packet one-way delay: 51.869 ms
Loss rate: 0.00%

Run 7: Report of PCC-Vivace — Data Link

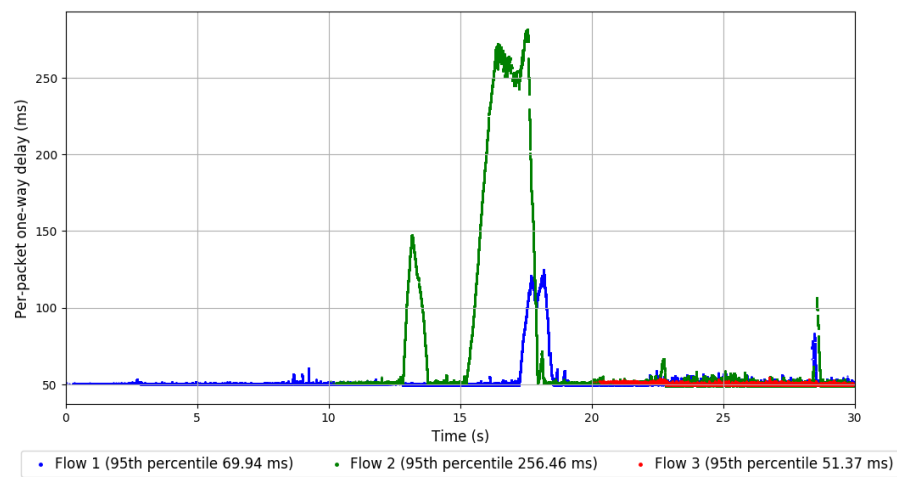
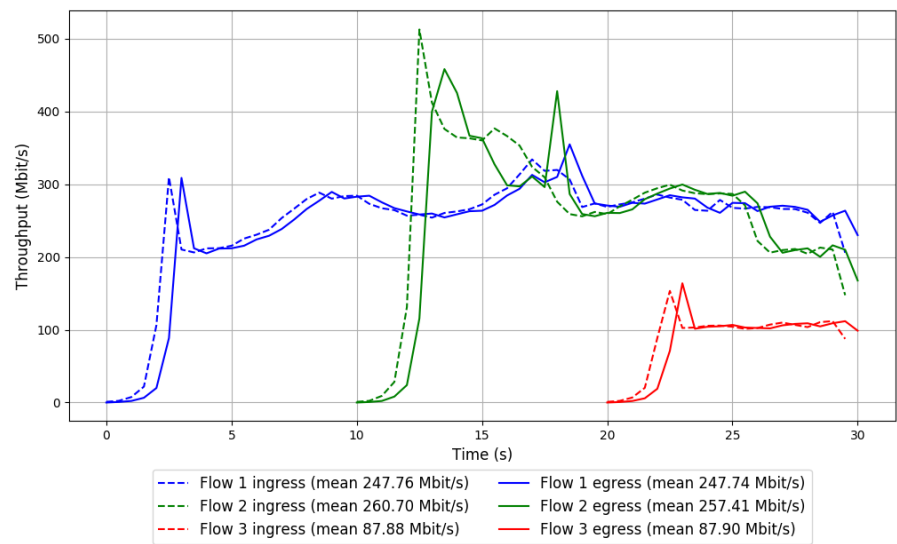


Run 8: Statistics of PCC-Vivace

Start at: 2018-06-20 13:04:11
End at: 2018-06-20 13:04:41
Local clock offset: 0.111 ms
Remote clock offset: -0.011 ms

Below is generated by plot.py at 2018-06-20 16:37:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 447.93 Mbit/s
95th percentile per-packet one-way delay: 144.886 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 247.74 Mbit/s
95th percentile per-packet one-way delay: 69.942 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 257.41 Mbit/s
95th percentile per-packet one-way delay: 256.458 ms
Loss rate: 1.28%
-- Flow 3:
Average throughput: 87.90 Mbit/s
95th percentile per-packet one-way delay: 51.366 ms
Loss rate: 0.00%

Run 8: Report of PCC-Vivace — Data Link

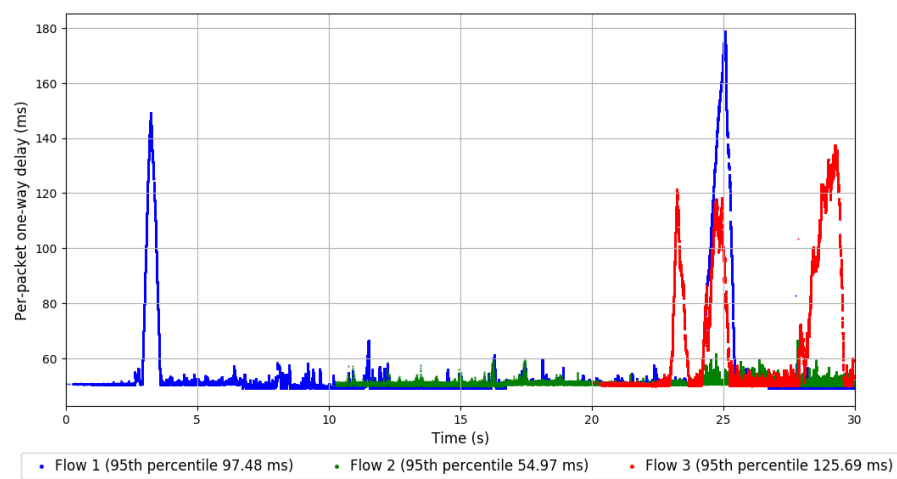
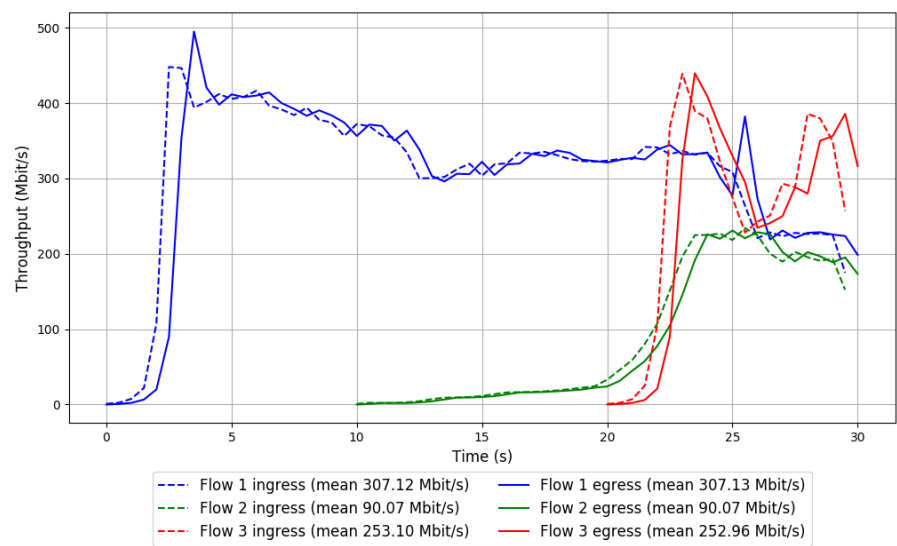


Run 9: Statistics of PCC-Vivace

Start at: 2018-06-20 13:27:07
End at: 2018-06-20 13:27:37
Local clock offset: -0.331 ms
Remote clock offset: -0.027 ms

Below is generated by plot.py at 2018-06-20 16:38:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 450.46 Mbit/s
95th percentile per-packet one-way delay: 113.956 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 307.13 Mbit/s
95th percentile per-packet one-way delay: 97.481 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 90.07 Mbit/s
95th percentile per-packet one-way delay: 54.966 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 252.96 Mbit/s
95th percentile per-packet one-way delay: 125.692 ms
Loss rate: 0.05%

Run 9: Report of PCC-Vivace — Data Link

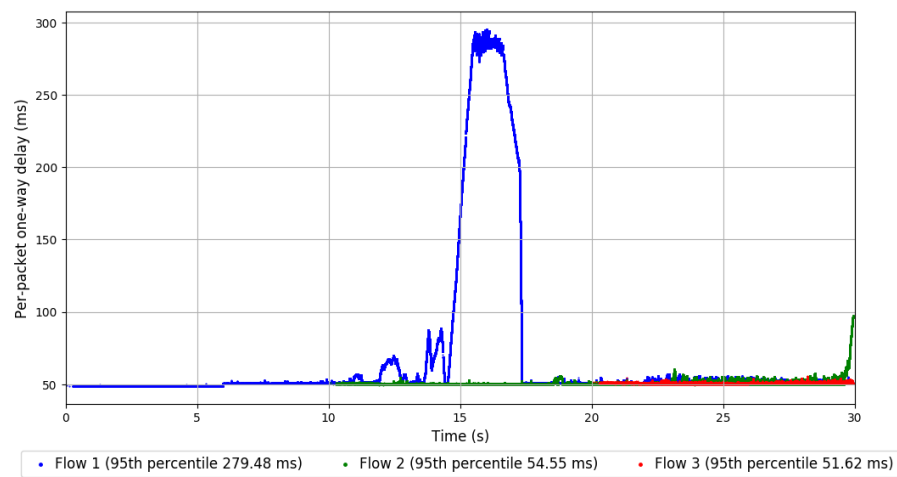
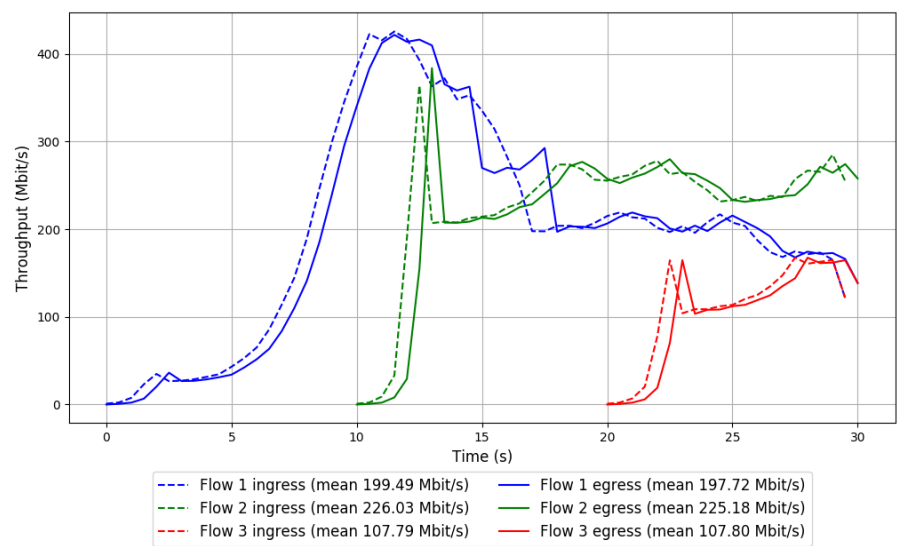


Run 10: Statistics of PCC-Vivace

Start at: 2018-06-20 13:50:18
End at: 2018-06-20 13:50:48
Local clock offset: 0.03 ms
Remote clock offset: -0.076 ms

Below is generated by plot.py at 2018-06-20 16:38:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 383.02 Mbit/s
95th percentile per-packet one-way delay: 198.812 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 197.72 Mbit/s
95th percentile per-packet one-way delay: 279.480 ms
Loss rate: 0.88%
-- Flow 2:
Average throughput: 225.18 Mbit/s
95th percentile per-packet one-way delay: 54.545 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 107.80 Mbit/s
95th percentile per-packet one-way delay: 51.616 ms
Loss rate: 0.00%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-06-20 10:18:38

End at: 2018-06-20 10:19:08

Local clock offset: -0.43 ms

Remote clock offset: 0.045 ms

Below is generated by plot.py at 2018-06-20 16:38:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.28 Mbit/s

95th percentile per-packet one-way delay: 51.232 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 50.658 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.49 Mbit/s

95th percentile per-packet one-way delay: 51.301 ms

Loss rate: 0.00%

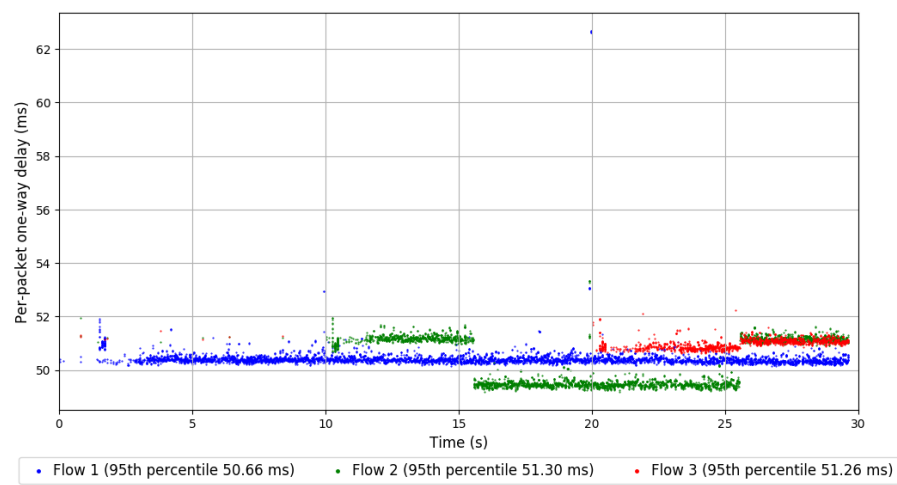
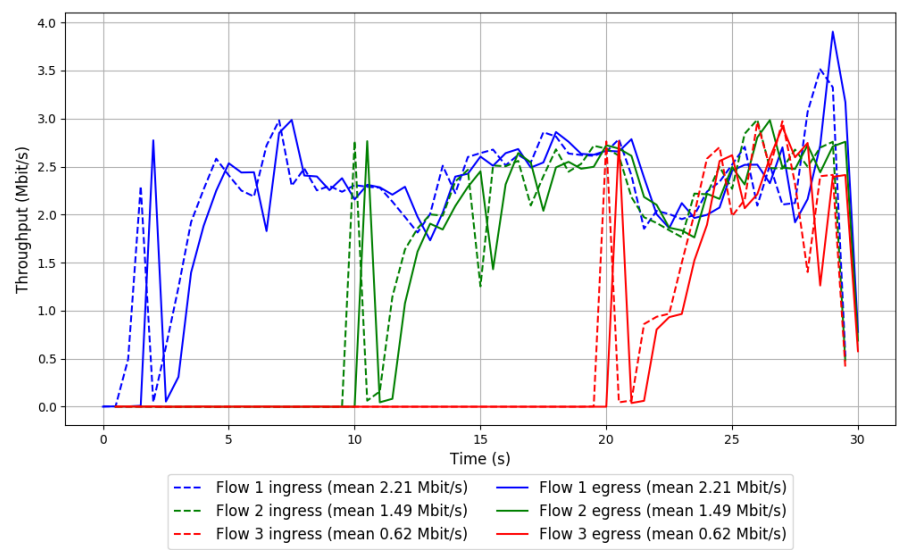
-- Flow 3:

Average throughput: 0.62 Mbit/s

95th percentile per-packet one-way delay: 51.256 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-06-20 10:41:50

End at: 2018-06-20 10:42:20

Local clock offset: -0.008 ms

Remote clock offset: 0.119 ms

Below is generated by plot.py at 2018-06-20 16:38:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.95 Mbit/s

95th percentile per-packet one-way delay: 50.949 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 50.997 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 50.799 ms

Loss rate: 0.00%

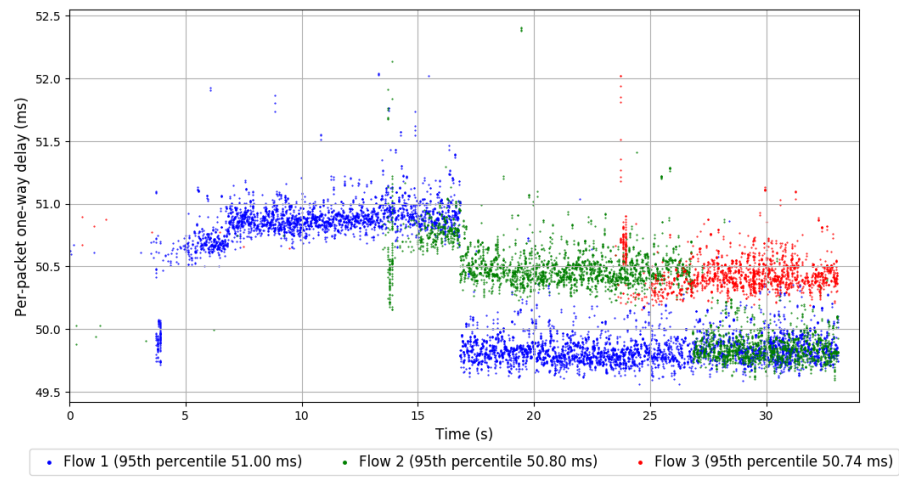
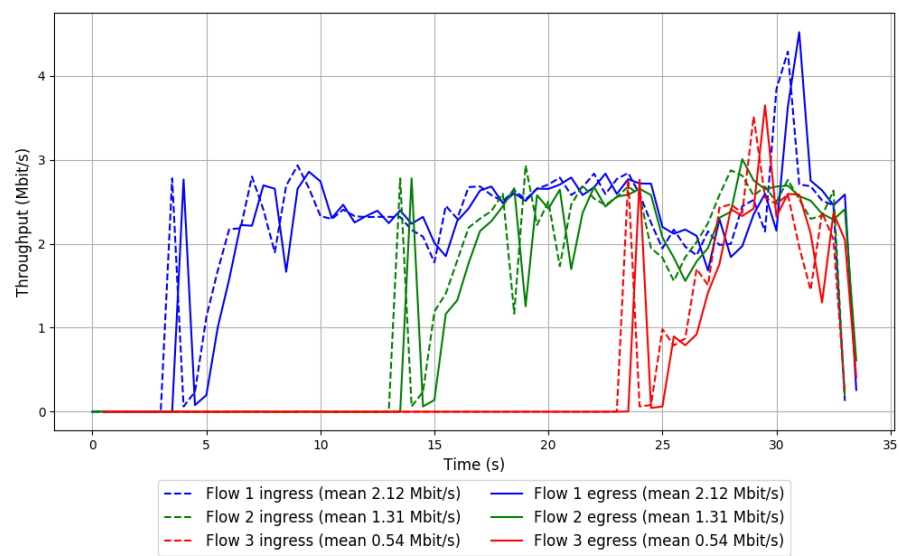
-- Flow 3:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 50.741 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-06-20 11:05:03

End at: 2018-06-20 11:05:33

Local clock offset: 0.008 ms

Remote clock offset: 0.153 ms

Below is generated by plot.py at 2018-06-20 16:38:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.85 Mbit/s

95th percentile per-packet one-way delay: 50.642 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 50.611 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 50.656 ms

Loss rate: 0.00%

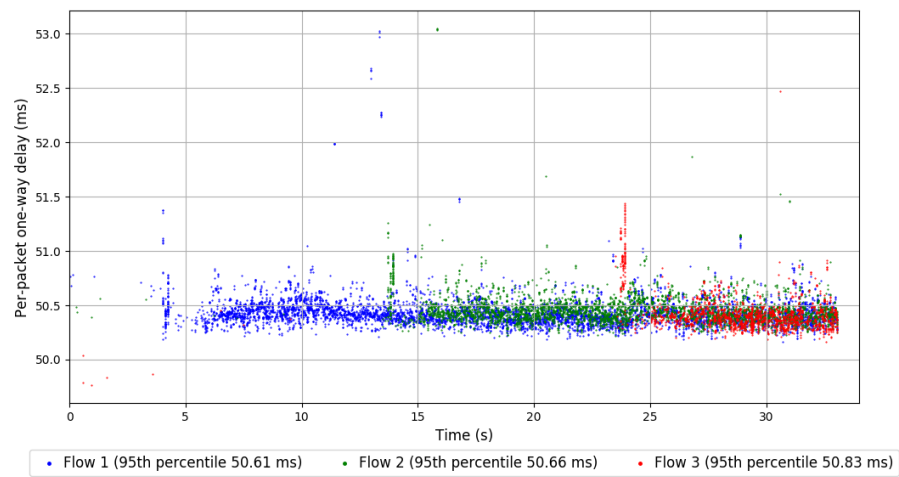
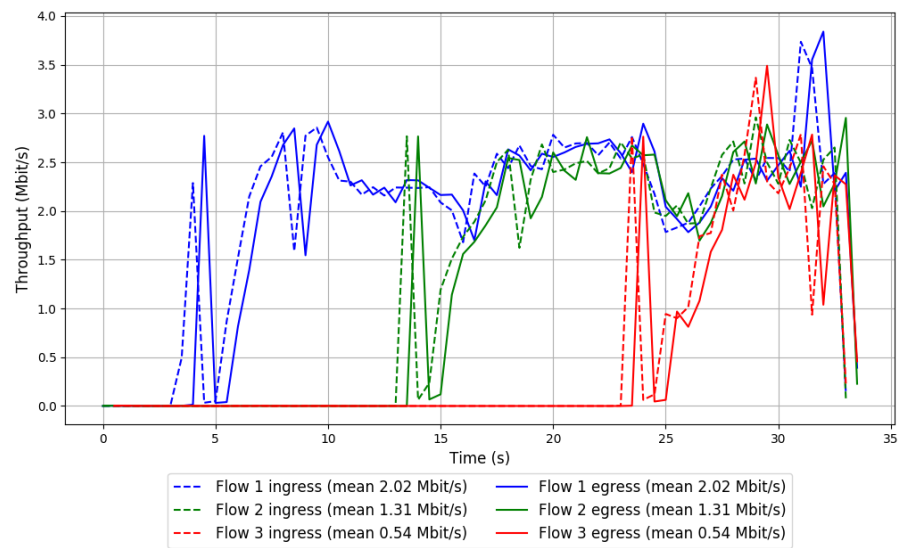
-- Flow 3:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 50.832 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-06-20 11:28:26

End at: 2018-06-20 11:28:56

Local clock offset: -0.036 ms

Remote clock offset: 0.043 ms

Below is generated by plot.py at 2018-06-20 16:38:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.79 Mbit/s

95th percentile per-packet one-way delay: 50.937 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 50.931 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.28 Mbit/s

95th percentile per-packet one-way delay: 50.823 ms

Loss rate: 0.00%

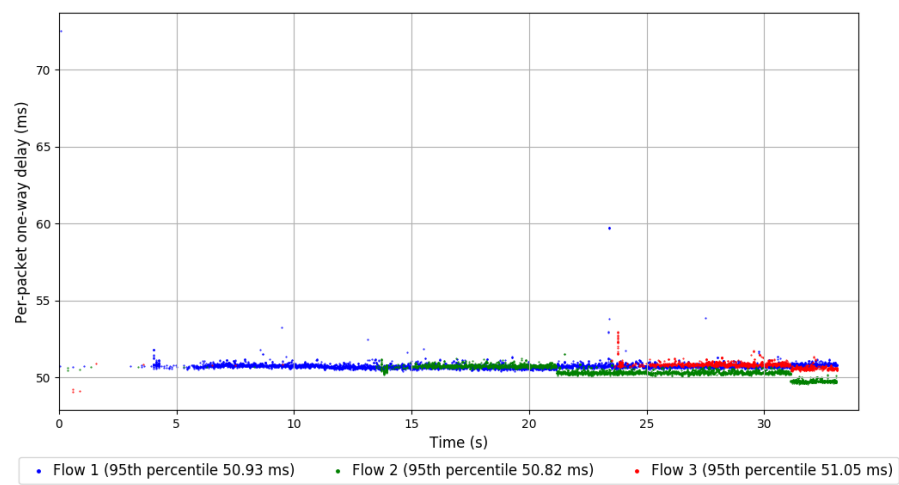
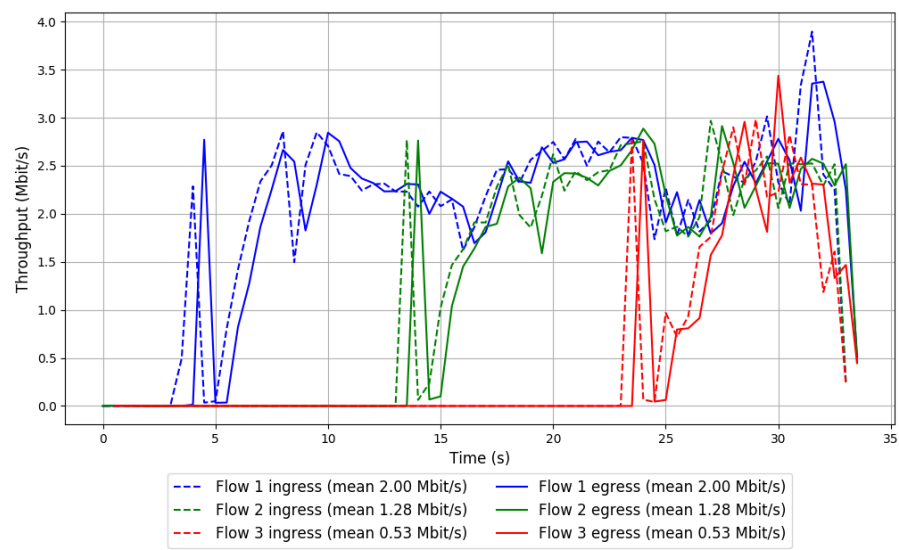
-- Flow 3:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 51.047 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-06-20 11:51:26

End at: 2018-06-20 11:51:56

Local clock offset: -0.044 ms

Remote clock offset: 0.03 ms

Below is generated by plot.py at 2018-06-20 16:38:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.95 Mbit/s

95th percentile per-packet one-way delay: 50.792 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 50.716 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.32 Mbit/s

95th percentile per-packet one-way delay: 50.857 ms

Loss rate: 0.00%

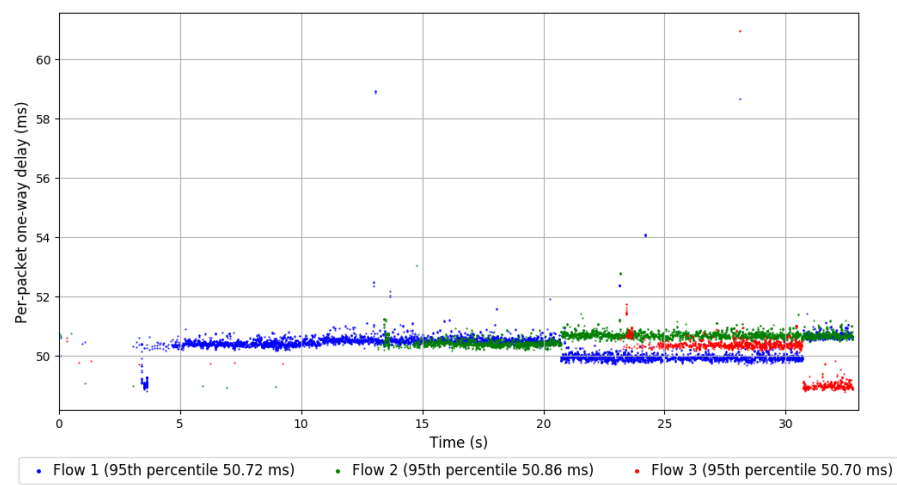
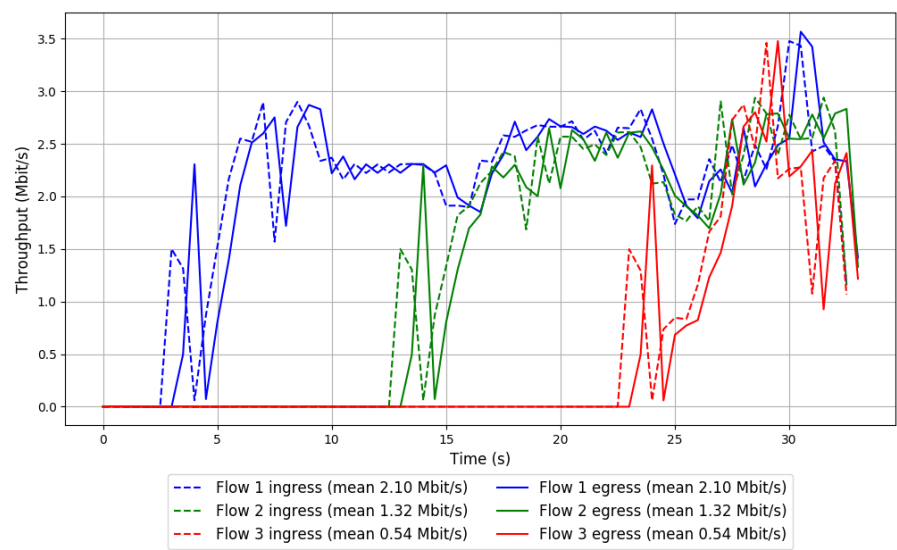
-- Flow 3:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 50.699 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-06-20 12:14:34

End at: 2018-06-20 12:15:04

Local clock offset: -0.024 ms

Remote clock offset: 0.026 ms

Below is generated by plot.py at 2018-06-20 16:38:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.82 Mbit/s

95th percentile per-packet one-way delay: 50.760 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 49.948 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 50.842 ms

Loss rate: 0.00%

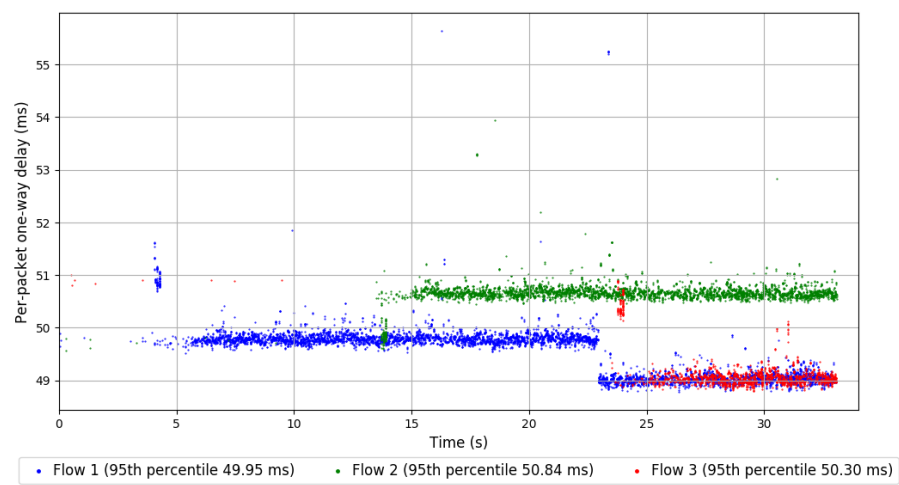
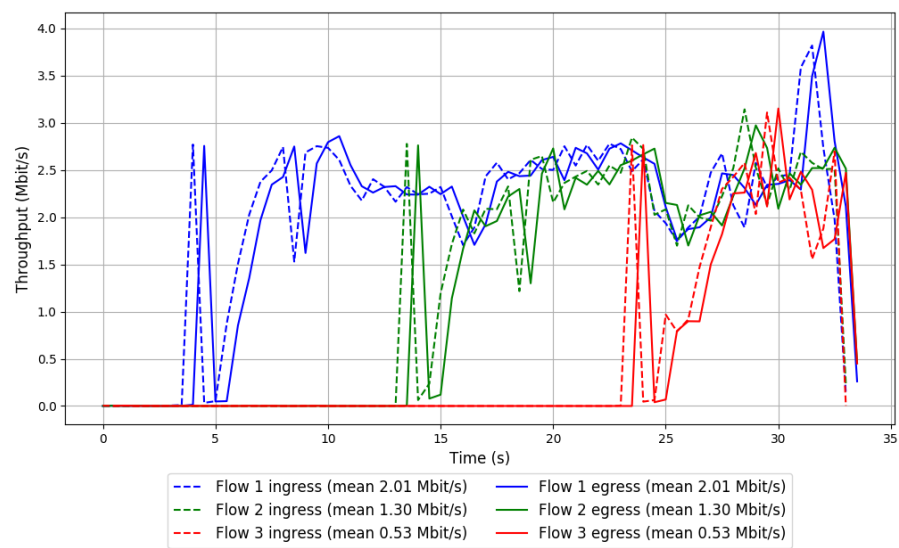
-- Flow 3:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 50.296 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

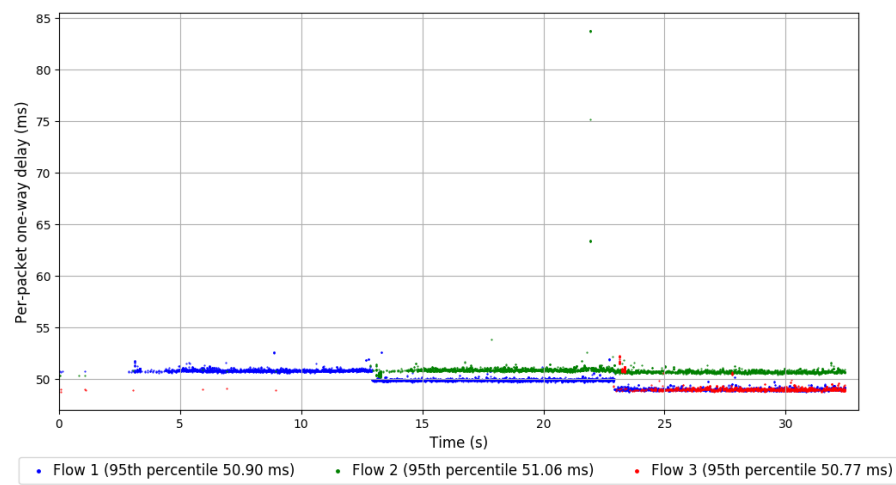
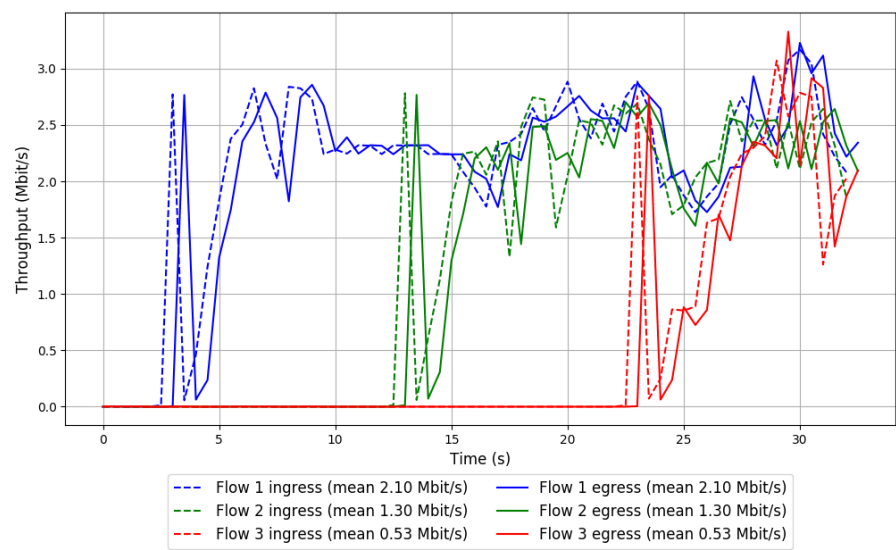


Run 7: Statistics of WebRTC media

Start at: 2018-06-20 12:37:44
End at: 2018-06-20 12:38:14
Local clock offset: 0.09 ms
Remote clock offset: -0.101 ms

Below is generated by plot.py at 2018-06-20 16:38:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.93 Mbit/s
95th percentile per-packet one-way delay: 50.976 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.10 Mbit/s
95th percentile per-packet one-way delay: 50.898 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.30 Mbit/s
95th percentile per-packet one-way delay: 51.061 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 50.766 ms
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link

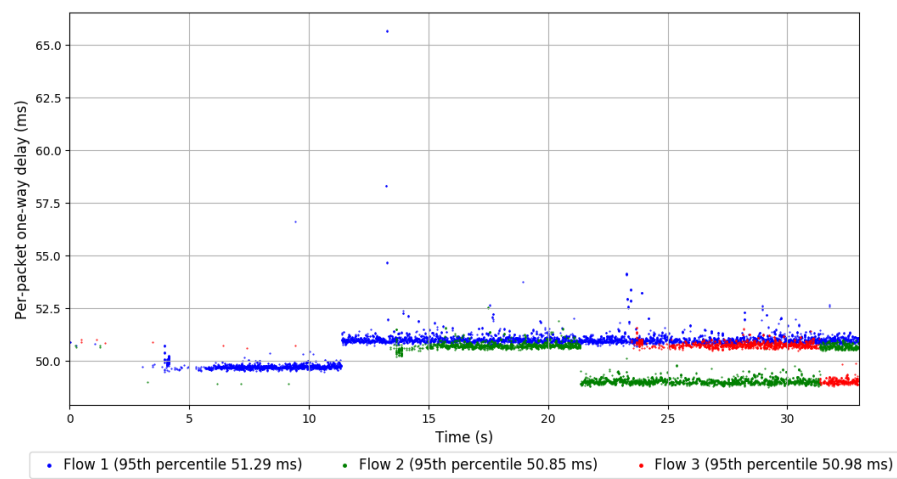
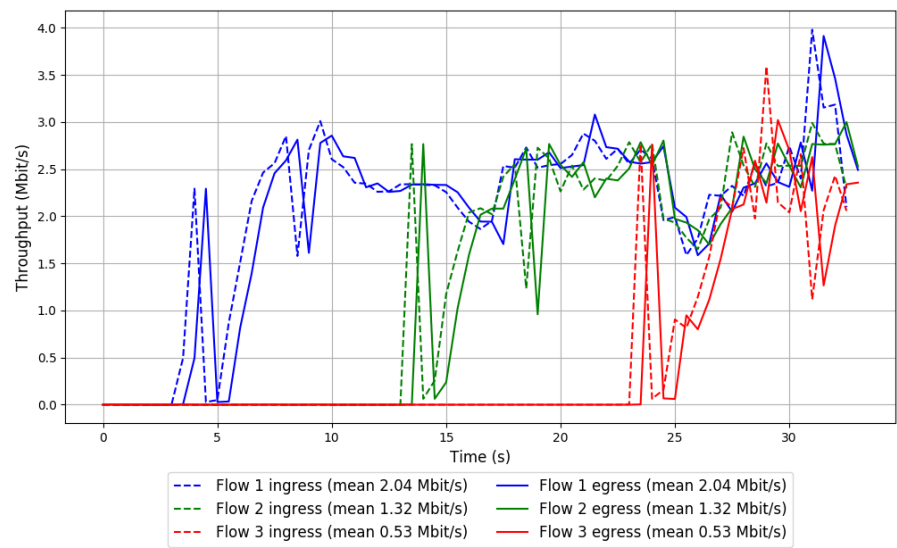


Run 8: Statistics of WebRTC media

Start at: 2018-06-20 13:00:36
End at: 2018-06-20 13:01:06
Local clock offset: 0.118 ms
Remote clock offset: -0.033 ms

Below is generated by plot.py at 2018-06-20 16:38:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.88 Mbit/s
95th percentile per-packet one-way delay: 51.188 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 2.04 Mbit/s
95th percentile per-packet one-way delay: 51.291 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.32 Mbit/s
95th percentile per-packet one-way delay: 50.850 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 50.984 ms
Loss rate: 0.05%

Run 8: Report of WebRTC media — Data Link

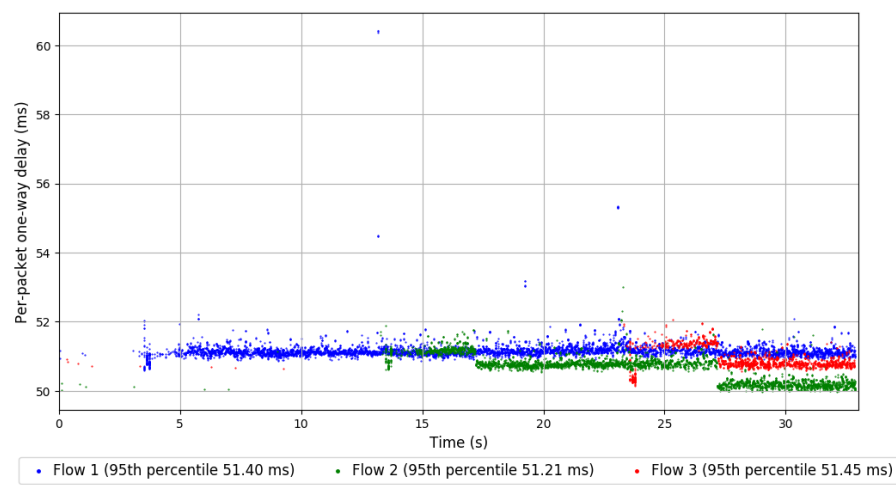
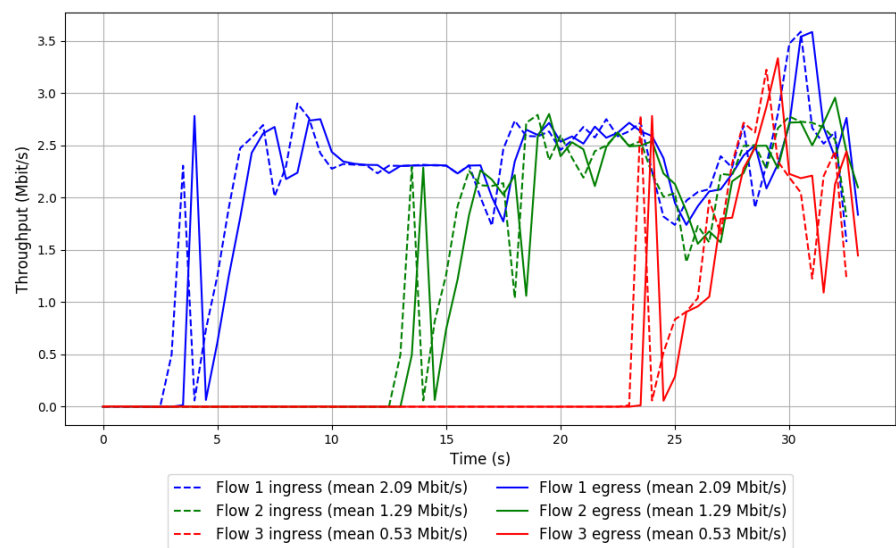


Run 9: Statistics of WebRTC media

Start at: 2018-06-20 13:23:30
End at: 2018-06-20 13:24:00
Local clock offset: -0.311 ms
Remote clock offset: -0.037 ms

Below is generated by plot.py at 2018-06-20 16:38:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.91 Mbit/s
95th percentile per-packet one-way delay: 51.375 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.09 Mbit/s
95th percentile per-packet one-way delay: 51.397 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.29 Mbit/s
95th percentile per-packet one-way delay: 51.209 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 51.446 ms
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-06-20 13:46:35
End at: 2018-06-20 13:47:05
Local clock offset: 0.013 ms
Remote clock offset: -0.033 ms

Below is generated by plot.py at 2018-06-20 16:38:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.84 Mbit/s
95th percentile per-packet one-way delay: 51.211 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 2.03 Mbit/s
95th percentile per-packet one-way delay: 51.245 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 1.32 Mbit/s
95th percentile per-packet one-way delay: 51.169 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 50.817 ms
Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

